

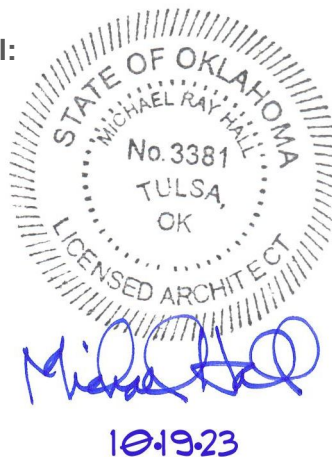
**Addendum #1**

**To:** Bidding Documents  
Plan-Holders of Record  
Project File

**Date:** October 19, 2022  
**Addendum Number:** One  
**Architect's Project #:** 20220001  
**Project Name:** TIA – Entry Signage

**From:** **GH2 ARCHITECTS, LLC**  
320 South Boston, Suite 100  
Tulsa, Oklahoma 74103  
Tel 918.587.6158  
Fax 918.587.0357

**Professional Seal:**



**NOTICE.....**

This Addendum supplements and amends the original Bidding Documents, shall be taken into account in preparing proposals, and shall become a part of the Construction Documents. The bidder shall indicate receipt of this addendum and all previously issued addenda on the Bid/Proposal Form.

**PRIOR ADDENDA**

NONE

**Changes / Clarifications to Specifications:**

1. Bidder's Checklist
  - a. Replace specification sheet.
2. Section 031000 – Concrete Forming and Accessories
  - a. Replace specification sheet.
3. Section 014000 - Quality Requirements
  - a. Replace specification section.

**Changes / Clarifications to Drawings:**

4. Sheet CS – Cover Sheet
  - a. Updated sheet index
5. Sheet S1.0 – TOPO SURVEY
  - a. Add sheet.
6. Sheet L001 – SURVEY
  - a. Remove sheet.
7. Sheet L002 – DEMOLITION PLAN
  - a. Drawing B: Add Note.
8. Sheet L101 – LANDSCAPE PLAN
  - a. Revise legend.

9. Sheet L102 – IRRIGATION KEY PLAN
  - a. Revise irrigation notes.
10. Sheet L301 – GRADING PLAN
  - a. Revise legend.
  - b. Add perforated storm drain and note.
  - c. Revise and add elevation points.
  - d. Revise grading.
11. Sheet L302 – LAYOUT AND DIMENSION PLAN
  - a. Replace sheet.
12. Sheet L401 – PLANTING PLAN AND DETAILS
  - a. Rename sheet to planting plan.
  - b. Remove details.
  - c. Add detail markers.
13. Sheet L501 – Details
  - a. Add sheet.
  - b. Revise concrete edging detail.
  - c. Add elevated concrete edging detail.
14. Sheet A103 – DETAILS
  - a. Replace sheet.
  - b. Added clarifying detail about panel splicing.
15. Sheet LD-100 – Lighting Plan
  - a. Replace sheet.
  - b. Updated spacing and models of fixtures.
16. Sheet LD-200 – Lighting Fixture Schedule
  - a. Replace sheet.
  - b. Updated fixture models to include additional options.

### **Questions and Answers**

1. When will the bid calendar days start?  
*Answer: Bid calendar days will begin on a mutually agreed up on date between the Owner and Contract after the execution of contract.*
2. Will this project be a prevailing wage project?  
*Answer: This project will not be a prevailing wage project.*
3. Who will be handling the permitting of the sign?  
*Answer: The architect will be responsible for permit applications. The Contractor will be responsible for payment and procurement of both the signage and building permits upon approval of the Authority Having Jurisdiction.*
4. Will the contractor be responsible for the airspace study?  
*Answer: The airspace study will be conducted by the airport. The Contractor will be responsible for providing accurate equipment information for to the Owner to complete the study.*

5. Does the information for the air study need to be submitted at the time of bidding?  
*Answer: The information required for the air study does is not required at the time of bidding. This will be coordinated with the Owner after the contract has been awarded.*
6. Are there any requirements for street closures?  
*Answer: Contractor will be responsible for coordinating with the Authority Having Jurisdiction and obtaining necessary permits if street closures are required to complete the project.*
7. Is this project an FAA Project?  
*Answer: This will not be a FAA project.*
8. What information will bidders need to submit on bid day?  
*Answer: Bidders will be required to submit the information indicated in the specifications.*
9. Who will be responsible for quality assurance testing?  
*Answer: All testing to be the responsibility of the contractor.*
10. Is fiberglass formwork required if the finished concrete will be rubbed?  
*Answer: Concrete finish is to be rubbed, please refer to the revised documents attached.*
11. What are the Insurance Requirements?  
*Answer: Refer to the updated bidder's checklist. Refer to SP70-21 of the special provisions.*
12. Please confirm the finish of the steel.  
*Answer: Refer to the documents attached.*
13. Will the structural steel need to be galvanized before powder coating?  
*Answer: The structural steel will need to be galvanized and powder coated.*

**LIST OF ATTACHMENTS**

- Four (4) 8.5x11 Pages – 014000 Quality Requirements
- Three (3) 8.5x11 Pages – 031000 Concrete Forming and Accessories
- Ten (10) 36x48 Sheets – CS, S1.0, L002, L101, L102, L301, L302, L401, L501, A103

**END OF ADDENDUM**

**BIDDER'S CHECKLIST**  
Tulsa International Airport

**TIA – Entry Signage**

The following items will be completed in full and returned to the Tulsa Airports Improvement Trust on the bid date as specified within.

Returned to TAIT

- |  |                          |
|--|--------------------------|
| 1. BIDDER'S CHECKLIST  | <input type="checkbox"/> |
| 2. INSURANCE COVERAGE & COPY OF CERTIFICATE OF INSURANCE<br>*This project is considered a Landside Project. Refer to SP 70-21. | <input type="checkbox"/> |
| 3. BID FORM ( <b>B1-B5</b> )   | <input type="checkbox"/> |
| 4. BID AFFIDAVITS (BA1-BA2)  | <input type="checkbox"/> |
| 5. BID BOND (BB1-BB2) (OR LISTED SUBSTITUTE)   | <input type="checkbox"/> |

Company: \_\_\_\_\_  
State of Incorporation: \_\_\_\_\_  
Attention: \_\_\_\_\_  
Title: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_  
State: \_\_\_\_\_  
Zip: \_\_\_\_\_  
Phone Number: \_\_\_\_\_

**SECTION 014000  
QUALITY REQUIREMENTS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. References and standards.
- B. Submittals.
- C. References and standards.
- D. Testing and inspection agencies and services.
- E. Control of installation.
- F. Tolerances.
- G. Manufacturers' field services.
- H. Defect Assessment.

**1.02 RELATED REQUIREMENTS**

- A. Section 013000 - Administrative Requirements: Submittal procedures.
- B. Section 016000 - Product Requirements: Requirements for material and product quality.

**1.03 REFERENCE STANDARDS**

- A. ASTM C1077 - Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation 2017.
- B. ASTM D3740 - Standard Practice for Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction 2019.
- C. ASTM E329 - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection 2021.
- D. ASTM E543 - Standard Specification for Agencies Performing Nondestructive Testing 2021.
- E. ASTM E699 - Standard Specification for Agencies Involved in Testing, Quality Assurance, and Evaluating of Manufactured Building Components 2016.
- F. IAS AC89 - Accreditation Criteria for Testing Laboratories 2010.

**1.04 SUBMITTALS**

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Testing Agency Qualifications:
  - 1. Prior to start of Work, submit agency name, address, and telephone number, and names of full time registered Engineer and responsible officer.
  - 2. Submit copy of report of laboratory facilities inspection made by NIST Construction Materials Reference Laboratory during most recent inspection, with memorandum of remedies of any deficiencies reported by the inspection.
  - 3. Qualification Statement: Provide documentation showing testing laboratory is accredited under IAS AC89.
- C. Design Data: Submit for Architect's knowledge as contract administrator for the limited purpose of assessing compliance with information given and the design concept expressed in the contract documents, or for Owner's information.
- D. Test Reports: After each test/inspection, promptly submit two copies of report to Architect and to Contractor.
  - 1. Include:
    - a. Date issued.
    - b. Project title and number.
    - c. Name of inspector.
    - d. Date and time of sampling or inspection.
    - e. Identification of product and specifications section.

- f. Location in the Project.
  - g. Type of test/inspection.
  - h. Date of test/inspection.
  - i. Results of test/inspection.
  - j. Compliance with Contract Documents.
  - k. When requested by Architect, provide interpretation of results.
2. Test report submittals are for Architect's knowledge as contract administrator for the limited purpose of assessing compliance with information given and the design concept expressed in the contract documents, or for Owner's information.
- E. Certificates: When specified in individual specification sections, submit certification by the manufacturer and Contractor or installation/application subcontractor to Architect, in quantities specified for Product Data.
- 1. Indicate material or product complies with or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.
- F. Manufacturer's Instructions: When specified in individual specification sections, submit printed instructions for delivery, storage, assembly, installation, adjusting, and finishing, for the Owner's information. Indicate special procedures, perimeter conditions requiring special attention, and special environmental criteria required for application or installation.
- G. Manufacturer's Field Reports: Submit reports for Architect's benefit as contract administrator or for Owner.
- 1. Submit for information for the limited purpose of assessing compliance with information given and the design concept expressed in the contract documents.

#### **1.05 REFERENCES AND STANDARDS**

- A. For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
- B. Comply with reference standard of date of issue current on date of Contract Documents, except where a specific date is established by applicable code.
- C. Obtain copies of standards where required by product specification sections.
- D. Maintain copy at project site during submittals, planning, and progress of the specific work, until Substantial Completion.
- E. Should specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.
- F. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of Architect shall be altered from the Contract Documents by mention or inference otherwise in any reference document.

#### **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.

### **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.

### 302 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.

### 303 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.~~
  - 7. Employ services of an independent qualified testing agency and pay for testing as required for the project.
- 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.

**304 MANUFACTURERS' FIELD SERVICES**

- A. When specified in individual specification sections, require material or product suppliers or manufacturers to provide qualified staff personnel to observe site conditions, conditions of surfaces and installation, quality of workmanship, as applicable, and to initiate instructions when necessary.
- B. Report observations and site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturers' written instructions.

**305 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**



**SECTION 031000  
CONCRETE FORMING AND ACCESSORIES**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Formwork for cast-in-place concrete, with shoring, bracing and anchorage.
- B. Form accessories.
- C. Form stripping.

**1.02 RELATED REQUIREMENTS**

- A. Section 032000 - Concrete Reinforcing.
- B. Section 033000 - Cast-in-Place Concrete.
- C. Section 051200 - Structural Steel Framing: Placement of embedded steel anchors and plates in cast-in-place concrete.

**1.03 REFERENCE STANDARDS**

- A. ACI CODE-318 - Building Code Requirements for Structural Concrete and Commentary 2019 (Reapproved 2022).
- B. ACI PRC-347 - Guide to Formwork for Concrete 2014 (Reapproved 2021).
- C. ACI SPEC-117 - Specification for Tolerances for Concrete Construction and Materials 2010 (Reapproved 2015).
- D. ACI SPEC-301 - Specifications for Concrete Construction 2020.
- E. PS 1 - Structural Plywood 2019.

**1.04 SUBMITTALS**

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate pertinent dimensions, materials, bracing, and arrangement of joints and ties.

**1.05 QUALITY ASSURANCE**

- A. Perform work of this section in accordance with Highways standards of the State of Oklahoma..
- B. Designer Qualifications: Design formwork under direct supervision of a Professional Structural Engineer experienced in design of concrete formwork and licensed in the State in which the Project is located.
- C. Maintain one copy of each installation standard on site throughout the duration of concrete work.

**1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver prefabricated forms and installation instructions in manufacturer's packaging.
- B. Store prefabricated forms off ground in ventilated and protected manner to prevent deterioration from moisture.

**PART 2 PRODUCTS**

**2.01 FORMWORK - GENERAL**

- A. Provide concrete forms, accessories, and bracing as required to accomplish cast-in-place concrete work.
- B. Design and construct concrete that complies with design with respect to shape, lines, and dimensions.
- C. Comply with applicable state and local codes with respect to design, fabrication, erection, and removal of formwork.
- D. Comply with relevant portions of ACI CODE-318, ACI PRC-347, and ACI SPEC-301.

## 2.02 WOOD FORM MATERIALS

- A. Wood form materials shall be used for **all** wall surfaces. ~~not exposed to view (inside face of wall).~~
- B. Softwood Plywood: PS 1, B-B High Density Concrete Form Overlay, Class I.
- C. Plywood: Douglas Fir species; solid one side grade; sound undamaged sheets with clean, true edges.

## 2.03 REMOVABLE PREFABRICATED FORMS

- A. ~~Fiberglass form materials shall be used for wall surfaces exposed to view.~~
- B. ~~Fiberglass forms as manufactured by Fiber-Tech or equal.~~
- C. ~~Provide single piece formwork for all wall lengths with the exception of the radial lengths greater than 75 feet where two piece wall forms shall be used.~~

## 2.04 FORMWORK ACCESSORIES

- A. Form Ties: Removable type, galvanized metal, fixed length, cone type, with waterproofing washer, 1" inch back break dimension, (25 mm back break dimension,) free of defects that could leave holes larger than 1 inch (25 mm) on the inside face of the wall.
- B. Form Release Agent: Capable of releasing forms from hardened concrete without staining or discoloring concrete or forming bug holes and other surface defects, compatible with concrete and form materials, and not requiring removal for satisfactory bonding of coatings to be applied.
  - 1. Do not use materials containing diesel oil or petroleum-based compounds.
  - 2. Composition: Colorless, reactive, water-based compound.
    - a. Products:
      - 1) Kaufman Products Inc; FormKote Emulsion: [www.kaufmanproducts.net/#sle](http://www.kaufmanproducts.net/#sle).
      - 2) Nox-Crete Inc; BIO-NOX: [www.nox-crete.com/#sle](http://www.nox-crete.com/#sle).
      - 3) SpecChem, LLC; Bio Strip WB (water-based): [www.specchemllc.com/#sle](http://www.specchemllc.com/#sle).
      - 4) W. R. Meadows, Inc; Duogard II (water-based): [www.wrmeadows.com/#sle](http://www.wrmeadows.com/#sle).

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Verify lines, levels and centers before proceeding with formwork. Ensure that dimensions agree with drawings.

### 3.02 ERECTION - FORMWORK

- A. Erect formwork, shoring and bracing to achieve design requirements, in accordance with requirements of ACI SPEC-301.
- B. Provide bracing to ensure stability of formwork. Shore or strengthen formwork subject to overstressing by construction loads.
- C. Arrange and assemble formwork to permit dismantling and stripping. Do not damage concrete during stripping. Permit removal of remaining principal shores.
- D. Align joints and make watertight. Keep form joints to a minimum.

### 3.03 APPLICATION - FORM RELEASE AGENT

- A. Apply form release agent on formwork in accordance with manufacturer's recommendations.
- B. Apply prior to placement of reinforcing steel, anchoring devices, and embedded items.

### 3.04 FORM CLEANING

- A. Clean forms as erection proceeds, to remove foreign matter within forms.
- B. Clean formed cavities of debris prior to placing concrete.
  - 1. Flush with water or use compressed air to remove remaining foreign matter. Ensure that water and debris drain to exterior through clean-out ports.

2. During cold weather, remove ice and snow from within forms. Do not use de-icing salts. Do not use water to clean out forms, unless formwork and concrete construction proceed within heated enclosure. Use compressed air or other means to remove foreign matter.

### **3.05 FORMWORK TOLERANCES**

- A. Construct formwork to maintain tolerances required by ACI SPEC-117, unless otherwise indicated.

### **3.06 FIELD QUALITY CONTROL**

- A. An independent testing agency will perform field quality control tests, as specified in Section 014000 - Quality Requirements.
- B. Inspect erected formwork, shoring, and bracing to ensure that work is in accordance with formwork design, and to verify that supports, fastenings, wedges, ties, and items are secure.

### **3.07 FORM REMOVAL**

- A. Do not remove forms or bracing until concrete has gained sufficient strength to carry its own weight and imposed loads.
- B. Loosen forms carefully. Do not wedge pry bars, hammers, or tools against finish concrete surfaces scheduled for exposure to view.
- C. Store removed forms to prevent damage to form materials or to fresh concrete. Discard damaged forms.

**END OF SECTION**

# TULSA INTERNATIONAL AIRPORT ENTRY SIGNAGE CONSTRUCTION DOCUMENTS 10/03/2023



3-D REPRESENTATION FOR ILLUSTRATIVE PURPOSES ONLY, REFER TO DRAWINGS AND DETAILS

## PROJECT CONTACTS

**OWNER:**  
TULSA AIRPORTS IMPROVEMENT TRUST  
1111 AIRPORT DRIVE, SUITE A211  
TULSA, OK 74115

**ARCHITECT:**  
GH2 ARCHITECTS, LLC  
338 SOUTH BOSTON AVENUE  
SUITE 100  
TULSA, OKLAHOMA 74103  
P(918) 581-6158

**SIGNAGE CONSULTANT:**  
GRESHAM SMITH  
222 SECOND AVENUE SOUTH  
SUITE 1400  
NASHVILLE, TN 37201  
615.710.8100

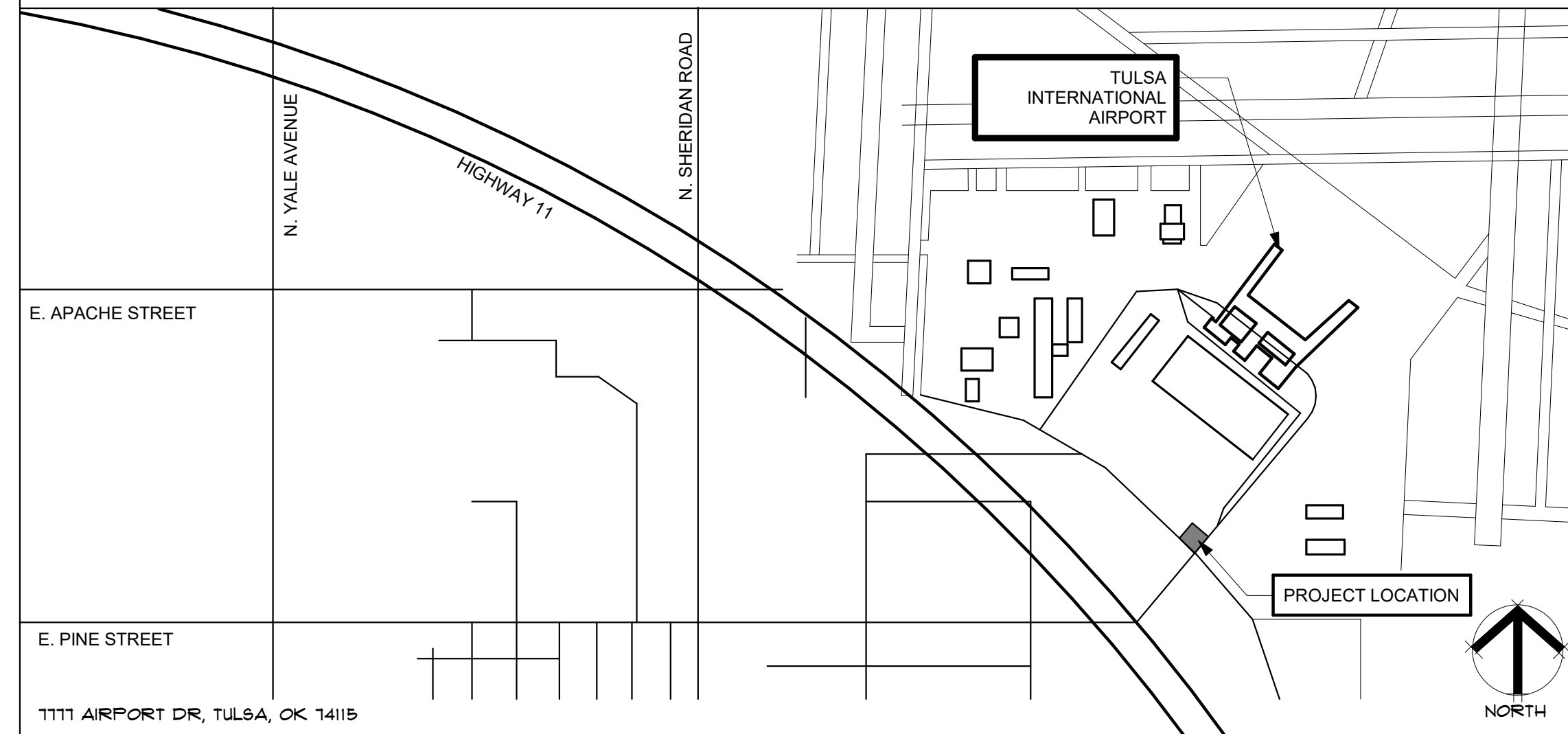
## CONSULTANT CONTACTS

**MEP CONSULTANT:**  
PRECISION ENGINEERING GROUP  
5800 E SKELLY DR  
SUITE 1100  
TULSA, OK 74135  
P(918) 743-3000

**STRUCTURAL CONSULTANT:**  
GRESHAM SMITH  
222 SECOND AVENUE SOUTH  
SUITE 1400  
NASHVILLE, TN 37201  
615.710.8100

**LIGHTING CONSULTANT:**  
LIGHTCRAFT GROUP  
NYC: 200 LIBERTY STREET  
SUITE 302, NEW YORK, NY 100281  
212.389.2616

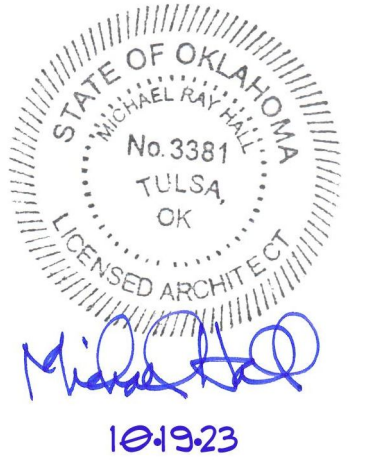
## PROJECT LOCATION



## SHEET INDEX

SHEET NUMBER	SHEET NAME
<b>GENERAL</b>	
CS	COVER SHEET
<b>LANDSCAPE</b>	
L1-0	TOPO SURVEY
L1-02	DEMOLITION PLAN
L1-01	LANDSCAPE PLAN
L1-02	IRRIGATION KEY PLAN
L3-01	GRADING PLAN
L3-02	LAYOUT AND DIMENSION PLAN
L4-01	PLANTING PLAN
L5-01	DETAILS
<b>ARCHITECTURAL</b>	
A1-01	PLAN AND ELEVATIONS
A1-02	AXONOMETRICS
A1-03	DETAILS
<b>STRUCTURAL</b>	
S0-01	GENERAL NOTES
S0-02	GENERAL NOTES SYMBOLS AND NOTATIONS
S2-01	FOUNDATION PLAN
S4-01	ELEVATIONS AND BUILDING SECTIONS
S4-02	ELEVATIONS AND BUILDING SECTIONS
S5-01	SECTIONS AND DETAILS
S5-02	SECTIONS AND DETAILS

SHEET NUMBER	SHEET NAME
<b>ELECTRICAL</b>	
E000	GENERAL NOTES, LEGENDS, SYMBOLS, & SCHEDULES
E100	ELECTRICAL PLAN
E300	ONE-LINE DIAGRAM & PANEL SCHEDULE
E9100	ELECTRICAL SITE PLAN
<b>LIGHTING</b>	
LD-100	LIGHTING PLAN
LD-200	LIGHTING FIXTURE SCHEDULE



## TUL ENTRY SIGNAGE

7777 Airport Dr, Tulsa, OK 74115

CS COVER SHEET

## GH2 ARCHITECTS

GH2.COM

GH2 PROJECT NUMBER:  
**20220001**

ISSUE DATE:  
**10/03/2023**

ISSUE:  
**CONSTRUCTION DOCUMENTS**

OTHER ISSUE DATES:  
NO. DESCRIPTION DATE  
1 Addendum 1 10/18/2023

SHEET NAME:  
**COVER SHEET**

SHEET NUMBER:  
**CS**

**Notes**

1. ABSTRACT OF TITLE OR ATTORNEY'S TITLE OPINION NOT AVAILABLE TO SURVEYOR AT DATE OF SURVEY.
2. THIS FIRM WAS NOT CONTRACTED TO RESEARCH EASEMENTS OR ENCUMBRANCES OF RECORD. NO ATTEMPT TO RESEARCH THE COUNTY RECORDS OR OTHER RECORD OFFICES WAS PERFORMED BY THIS FIRM, THEREFORE EASEMENTS MAY AFFECT THE SUBJECT TRACT THAT ARE NOT REFLECTED BY THIS PLAT.
3. ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN. (CALL "OKIE" BEFORE DIGGING!!)
4. THE VERTICAL DATUM FOR THIS SURVEY IS BASED ON GPS DATA (NAVD88).
5. THE HORIZONTAL DATUM FOR THIS SURVEY IS BASED THE OKLAHOMA STATE PLANE COORDINATE SYSTEM NAD83.

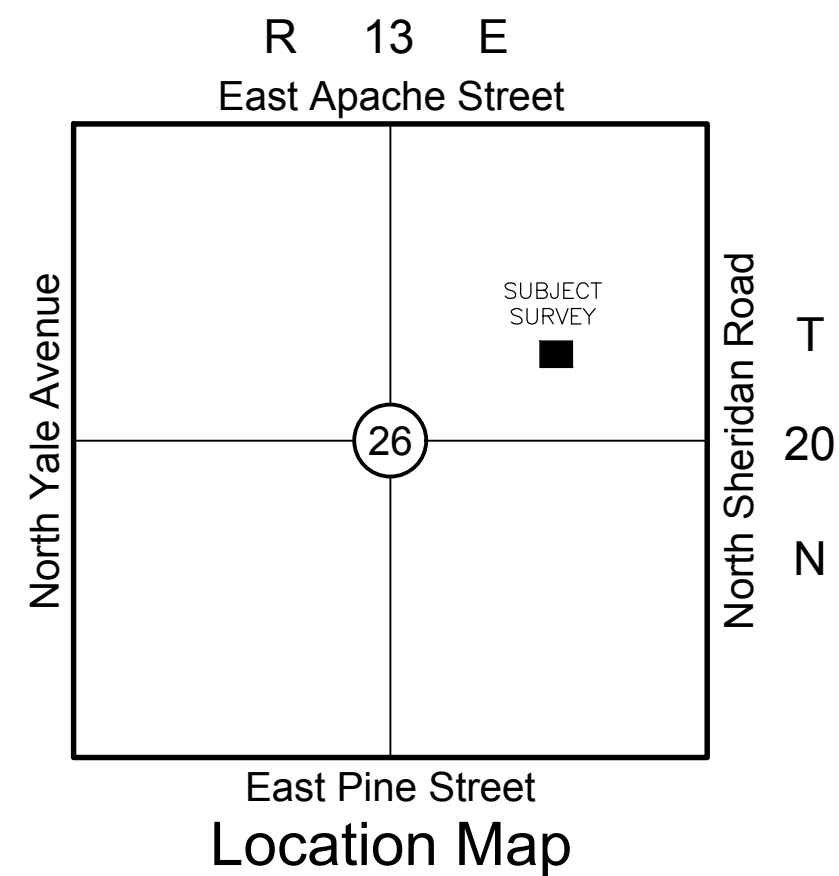
**Legend**

- BM BENCHMARK
- CMP CORRUGATED METAL PIPE
- EM ELECTRIC METER
- FH FIRE HYDRANT
- FL FLOW LINE
- GM GAS METER
- HH HAND HOLE
- ICV IRRIGATION CONTROL VALVE
- LP LIGHT POLE
- OE OVERHEAD ELECTRIC
- PP POWER POLE
- RCP REINFORCED CONCRETE PIPE
- SD STORM DRAIN LINE
- SDMH STORM DRAIN MANHOLE
- SGDI SINGLE GRATE DROP INLET
- SS SANITARY SEWER LINE
- SSMH SANITARY SEWER MANHOLE
- TG TOP OF GRATE
- TPED TELEPHONE PEDESTAL
- TR TOP OF RIM
- UC UNDERGROUND CABLE
- UE UNDERGROUND ELECTRIC
- UG UNDERGROUND GAS
- UTMH UTILITY MANHOLE
- VCP VITRIFIED CLAY PIPE
- WL WATER LINE
- WM WATER METER
- WV WATER VALVE
- XFMR ELECTRIC TRANSFORMER

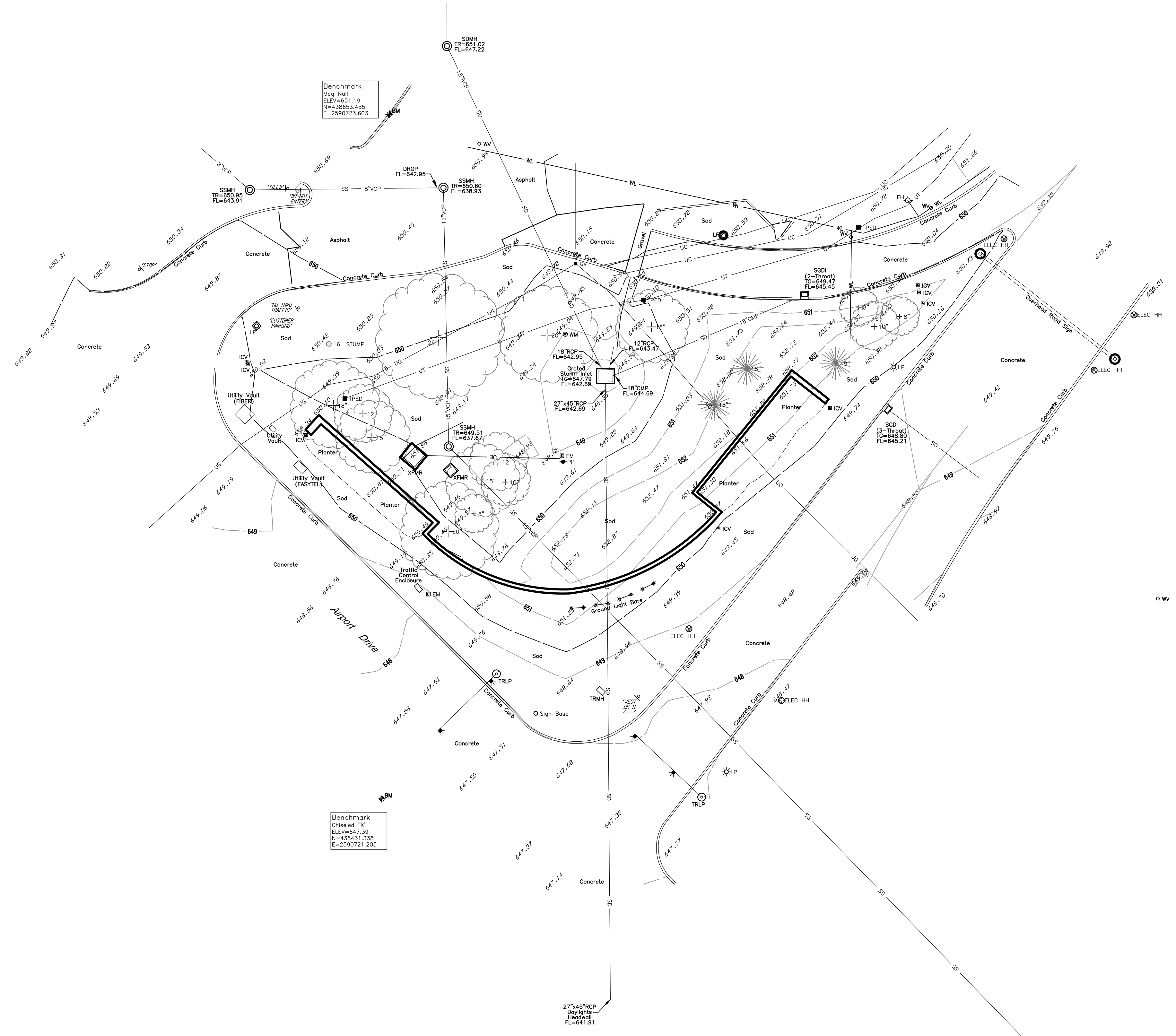
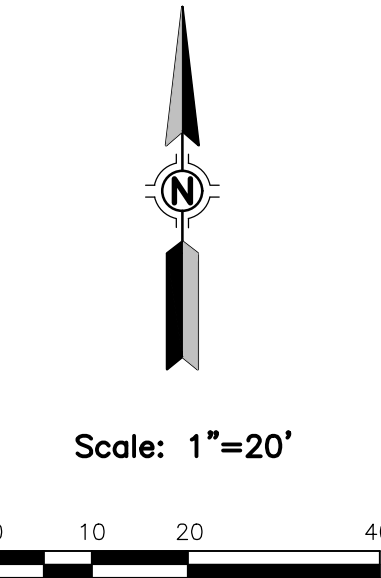
**Benchmark Notes**

- Mag Nail Chiseled "X"
- ELEV=651.19 ELEV=647.39
- N=438653.455 N=438431.338
- E=2590723.603 E=2590721.205

K:\2340347.2-TIA Entrance Sign-Wallace\Final drawings\2340347.2TP.dwg PLOT: 5/10/2023 9:54:00 AM ORIG SIZE: 24"x36"



Location Map



Benchmark  
Mag Nail  
ELEV=651.19  
N=438653.455  
E=2590723.603

Benchmark  
Chiseled "X"  
ELEV=647.39  
N=438431.338  
E=2590721.205



**CAUTION  
NOTICE TO CONTRACTOR**

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES.

**Surveyor's Certification**

WE, BENNETT SURVEYING, INC., HEREBY CERTIFY THAT THE TOPOGRAPHICAL INFORMATION HEREON REPRESENTS A SURVEY PERFORMED UNDER OUR DIRECT SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE.

THIS TOPO SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS, AS ADOPTED BY THE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS FOR THE STATE OF OKLAHOMA.

WITNESS MY HAND AND SEAL THIS 19TH DAY OF MARCH, 2015.



BY: *Cliff Bennett*  
CLIFF BENNETT  
REGISTERED PROFESSIONAL LAND SURVEYOR  
OKLAHOMA NO. 1815



wallace design collective, pc  
structural-civil-landscape survey  
123 north martin luther king jr. blvd.  
tulsa, oklahoma 74103  
918.584.5858  
oklahoma ca1460  
exp: 6-30-23

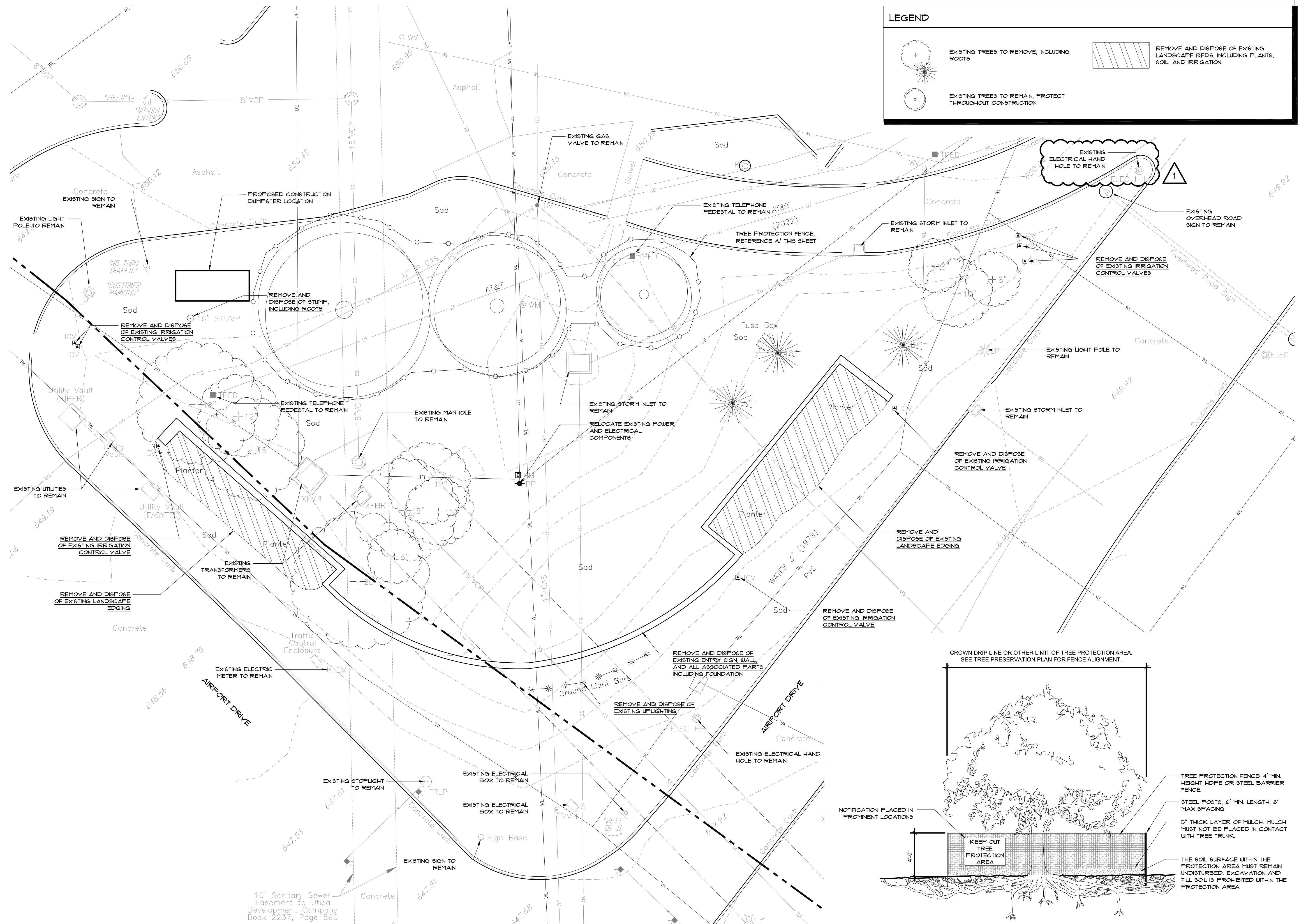


**Tulsa International Airport  
Entrance Sign**

7777 Airport Drive, Tulsa, Oklahoma

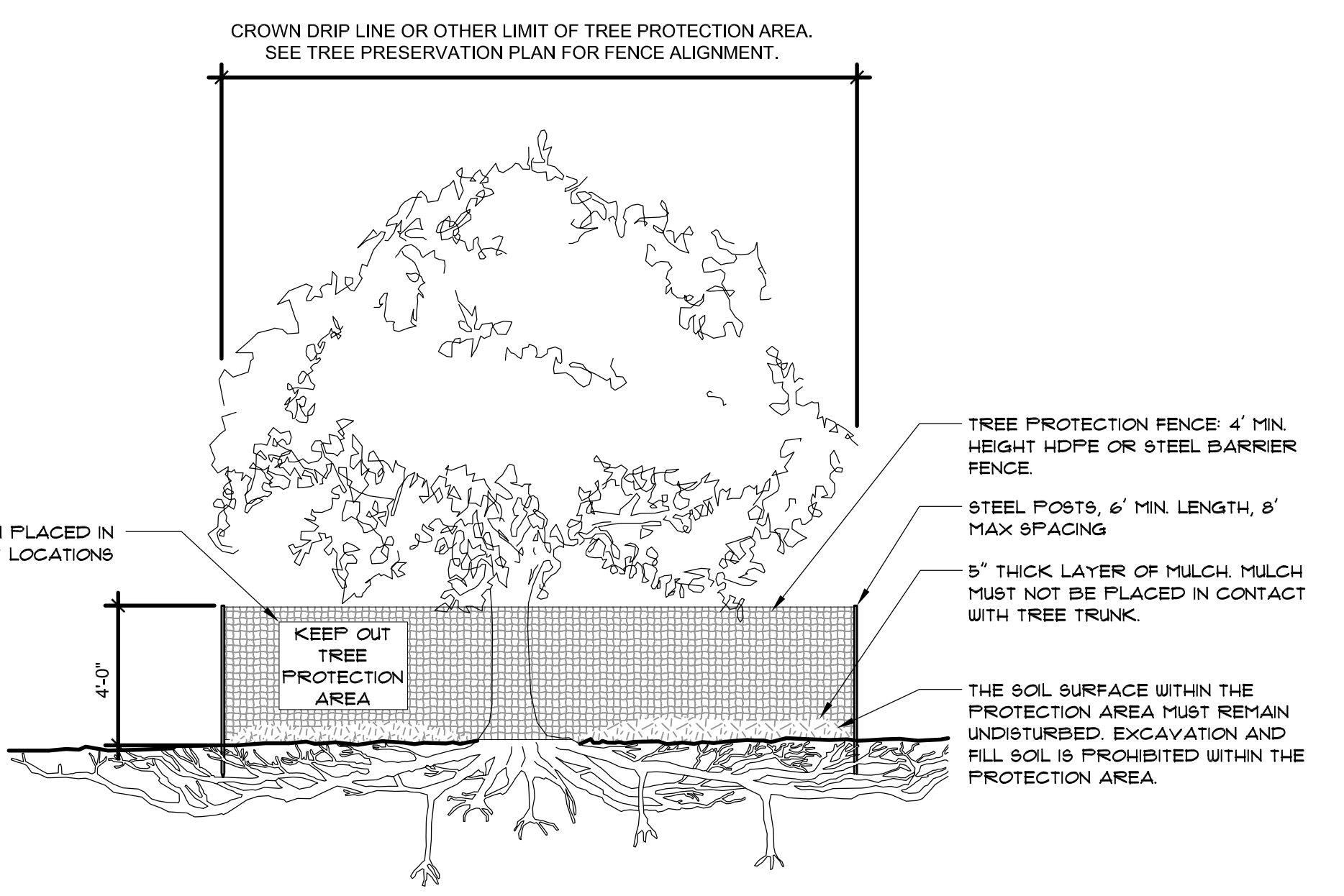
REV	DATE	DESCRIPTION

DATE 5/10/23  
PROJECT NO. 2340347.2  
SHEET NAME  
**TOPO SURVEY**  
SHEET NO. **S1.0**

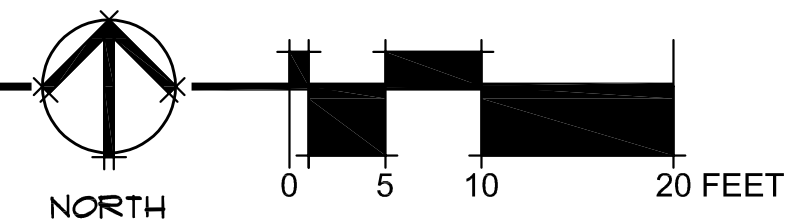


**LEGEND**

- EXISTING TREES TO REMOVE, INCLUDING ROOTS
- EXISTING TREES TO REMAIN, PROTECT THROUGHOUT CONSTRUCTION
- REMOVE AND DISPOSE OF EXISTING LANDSCAPE BEDS, INCLUDING PLANTS, SOIL, AND IRRIGATION



**B DEMOLITION PLAN**  
1" = 10'-0"

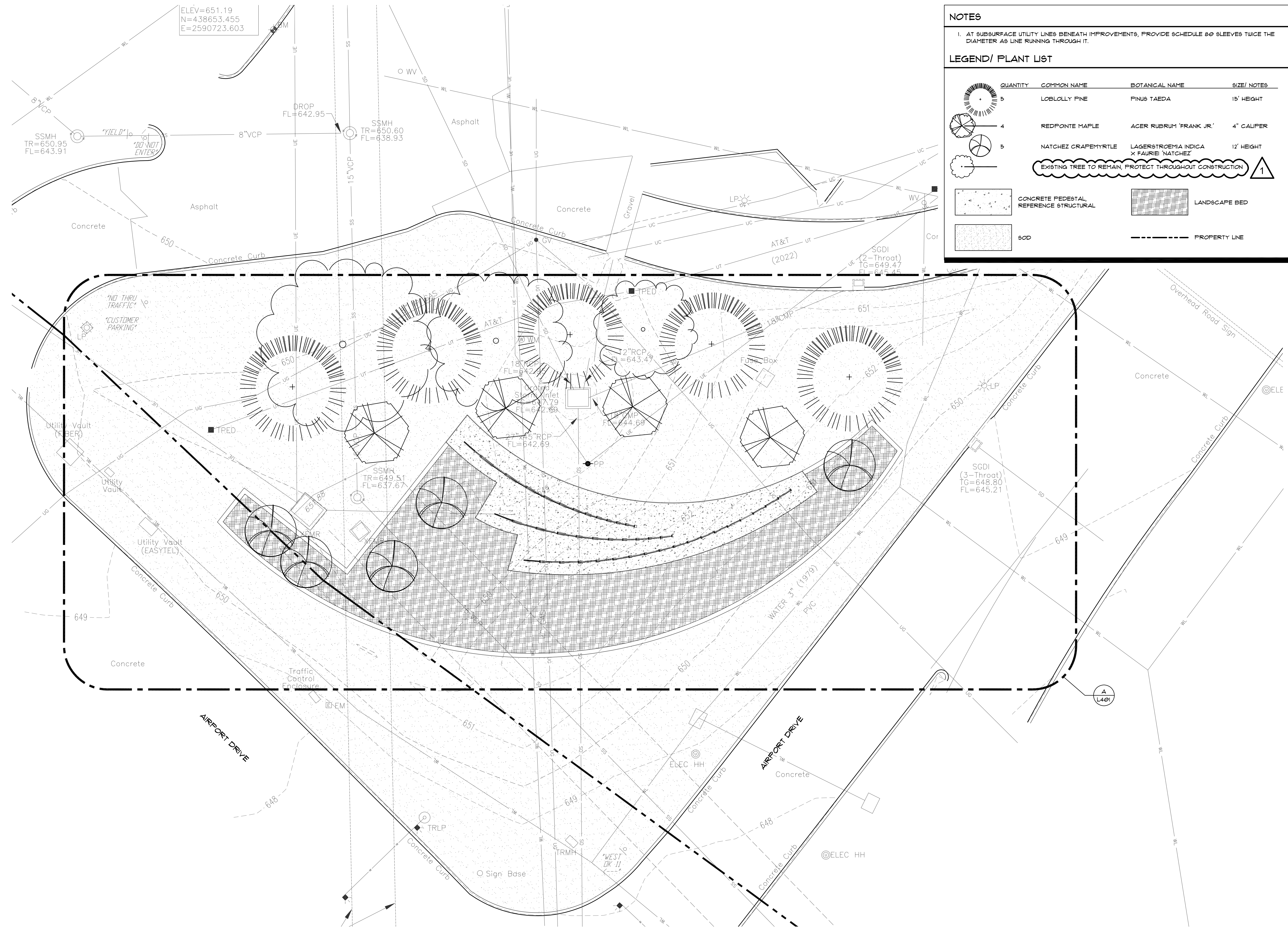


**A TREE PROTECTION DETAIL**  
1/4" = 1'-0"



OTHER ISSUE DATES:

NO.	DESCRIPTION	DATE
1	Addendum 1	10/18/2023



**NOTES**

1. AT SUBSURFACE UTILITY LINES BENEATH IMPROVEMENTS, PROVIDE SCHEDULE 80 SLEEVES TWICE THE DIAMETER AS LINE RUNNING THROUGH IT.

**LEGEND/ PLANT LIST**

QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE/ NOTES
5	LOBLOLLY PINE	PINUS TAEDA	15' HEIGHT
4	REDPOINTE MAPLE	ACER RUBRUM 'FRANK JR.'	4" CALIPER
5	NATCHEZ CRAPEMYRTLE	LAGERSTROEMIA INDICA X FAURIEI 'NATCHEZ'	12' HEIGHT
EXISTING TREE TO REMAIN, PROTECT THROUGHOUT CONSTRUCTION			1
CONCRETE PEDESTAL, REFERENCE STRUCTURAL		LANDSCAPE BED	
SOD		PROPERTY LINE	



**TUL WAYFINDING**  
7777 Airport Dr, Tulsa, OK 74115

**L101**  
LANDSCAPE PLAN

**GH2 ARCHITECTS**

GH2.COM

GH2 PROJECT NUMBER:  
**20220001**

ISSUE DATE:  
**10/03/2023**

ISSUE:  
**CONSTRUCTION DOCUMENTS**

OTHER ISSUE DATES:

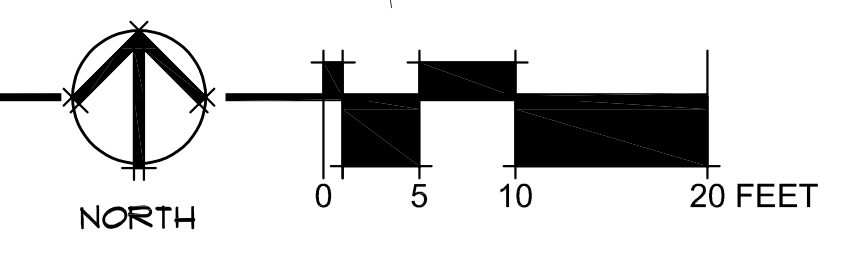
NO.	DESCRIPTION	DATE
1	Addendum 1	10/18/2023

SHEET NAME:  
**LANDSCAPE PLAN**

SHEET NUMBER:  
**L101**

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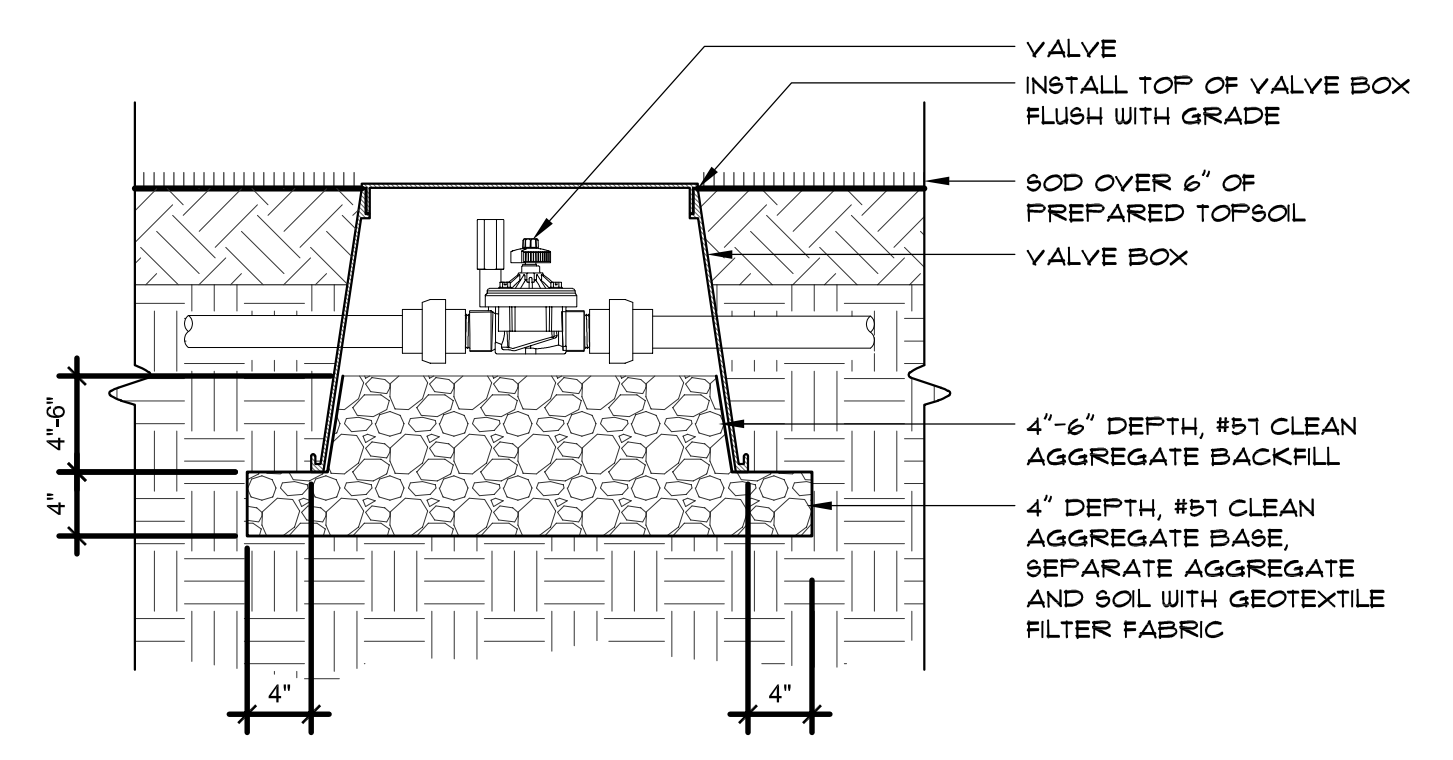
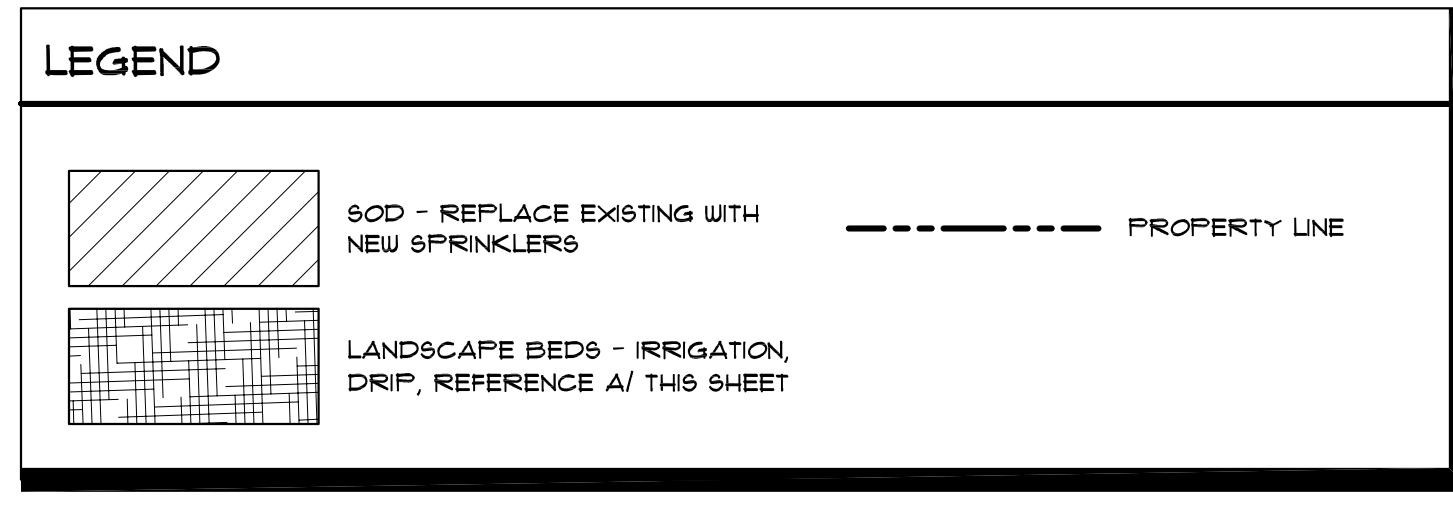
**A** LANDSCAPE PLAN  
1" = 10'-0"



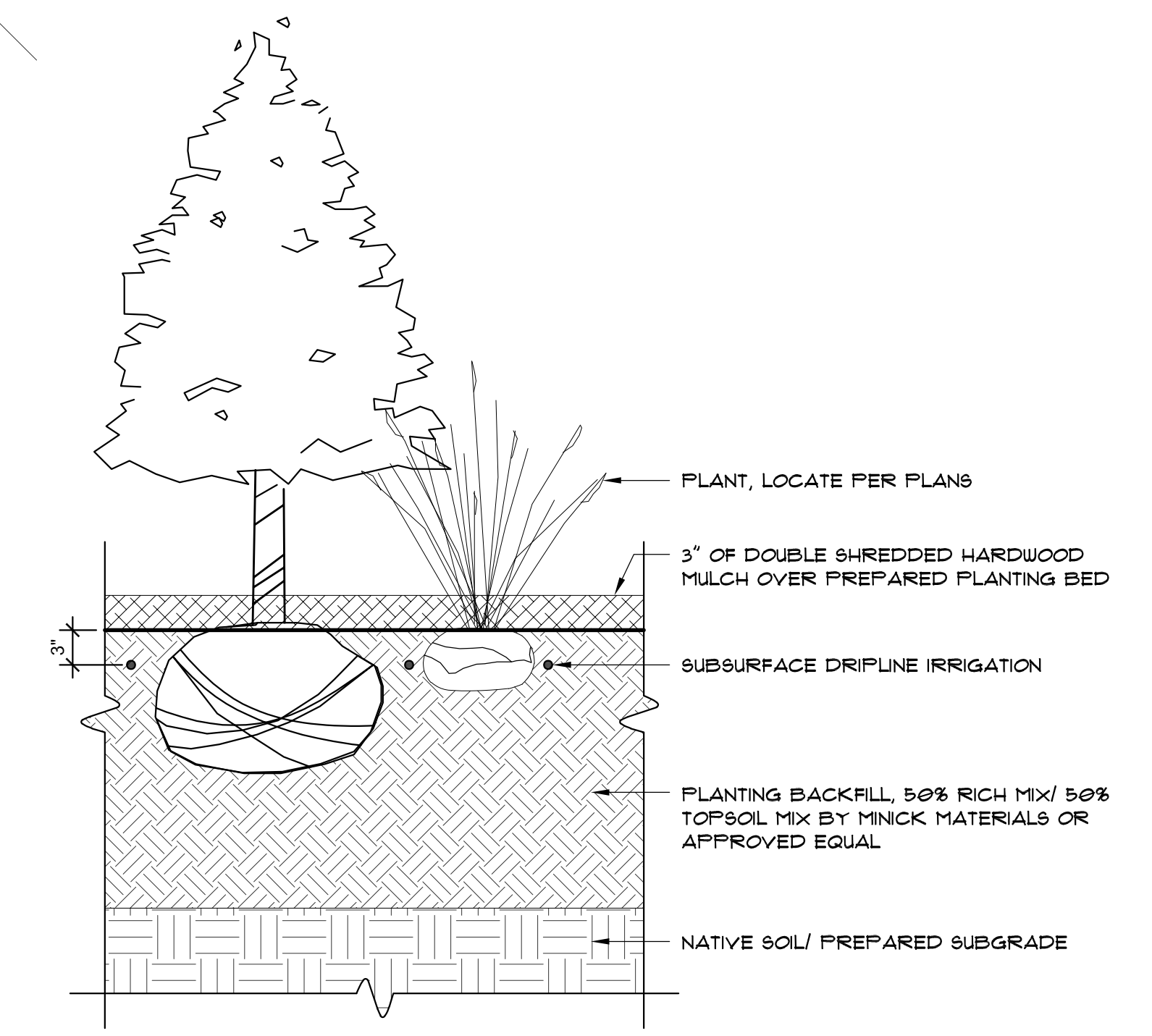
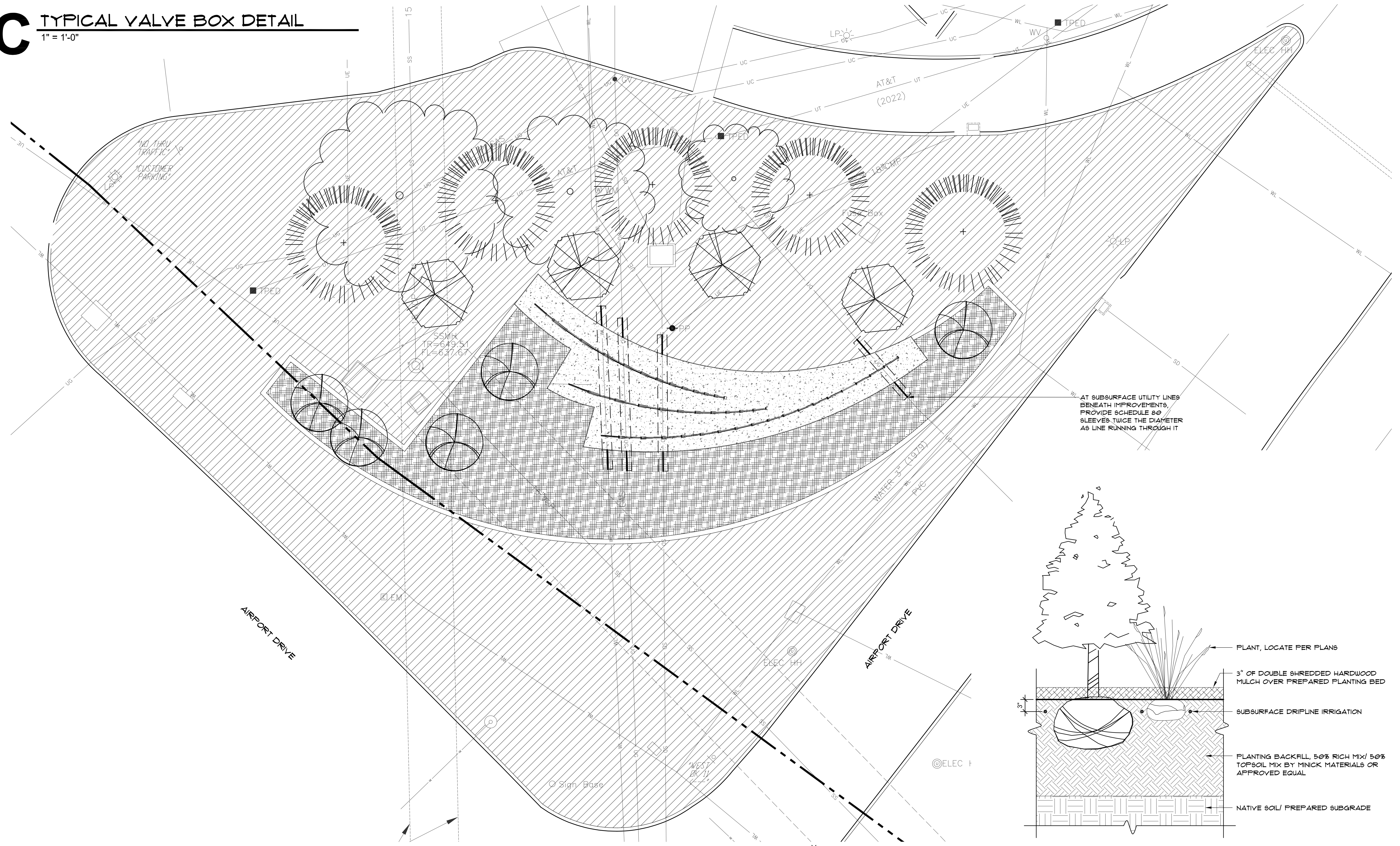


NO.	DESCRIPTION	DATE
1	Addendum 1	10/18/2023

- ### IRRIGATION NOTES
- AREAS TO BE IRRIGATED:
    - LANDSCAPE BED - DRIP IRRIGATION
    - LAWN (SOD) AREAS AND PARKING ISLANDS - SPRINKLERS
  - PROVIDE COMPLETE IRRIGATION SYSTEM PER PERFORMANCE AND MANUFACTURER SPECIFICATIONS.
  - COORDINATE IRRIGATION SYSTEM WITH SITE UTILITIES AND TULSA AIRPORT IMPROVEMENT TRUST (TAIT).
  - FIELD VERIFY EXISTING IRRIGATION MAINLINE LOCATION FOR NEW SYSTEM CONNECTION.
  - REMOVE AND REPLACE EXISTING IRRIGATION AS REQUIRED FOR IMPROVEMENTS.
  - CALCULATE ALL MATERIALS NECESSARY FOR A COMPLETE IRRIGATION SYSTEM.
  - VERIFY THE MINIMUM DYNAMIC WATER PRESSURE AVAILABLE.
  - BENEATH EXISTING TREE DRIP LINES, DIG TRENCHES RADIALLY PERPENDICULAR TO TREE TRUNKS (ON LIE OF ACROSS ROOTS), BORE BENEATH EXISTING TREE DRIFLINE IF 'ACROSS ROOTS' LOCATION IS REQUIRED TO PERFORM WORK.
  - IMMEDIATELY CONSULT WITH THE LANDSCAPE ARCHITECT WHENEVER THERE IS A CONFLICT BETWEEN ANY OF THE ABOVE STATED ITEMS.
  - FINE GRADE AND SOD AREAS DISTURBED BY CONSTRUCTION.

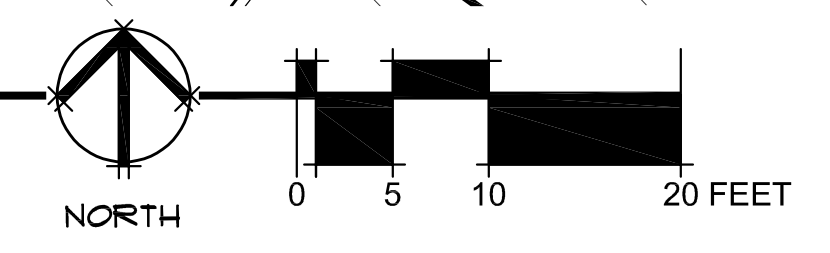


**C** TYPICAL VALVE BOX DETAIL  
1" = 1'-0"



**A** SUBSURFACE DRIFLINE DETAIL  
SCALE: 1" = 1'-0"

**B** IRRIGATION KEY PLAN  
1" = 10'-0"







**TUL WAYFINDING**  
7777 Airport Dr, Tulsa, OK 74115

**L301**  
GRADING PLAN

**GH2 ARCHITECTS**

GH2.COM

GH2 PROJECT NUMBER:  
**20220001**

ISSUE DATE:  
**10/03/2023**

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**CONSTRUCTION DOCUMENTS**

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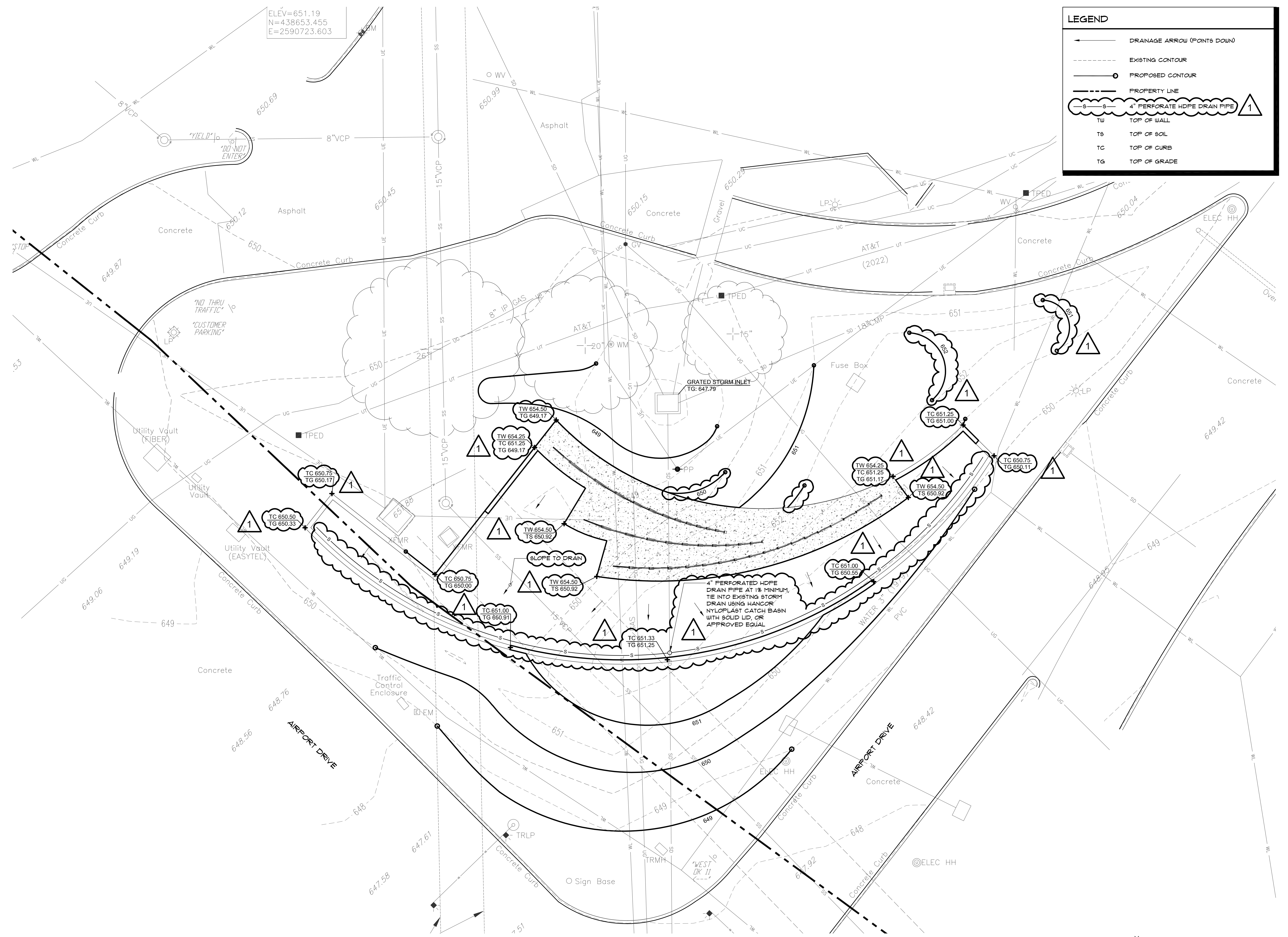
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**GRADING PLAN**

SHEET NUMBER:  
**L301**

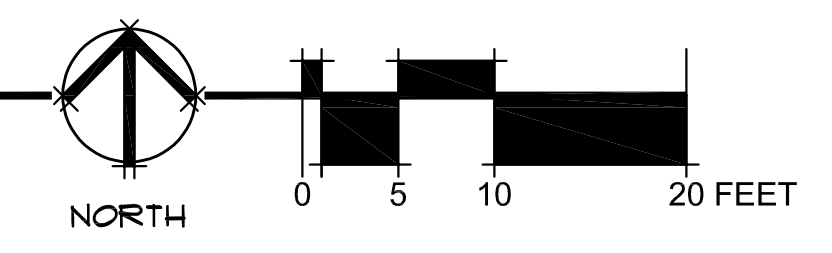
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**LEGEND**

- DRAINAGE ARROW (POINTS DOWN)
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPERTY LINE
- 4" PERFORATE HDPE DRAIN PIPE
- TOP OF WALL
- TOP OF SOIL
- TOP OF CURB
- TOP OF GRADE



**A GRADING PLAN**  
1" = 10'-0"





**TUL WAYFINDING**  
7777 Airport Dr, Tulsa, OK 74115

**L302**  
LAYOUT AND DIMENSION PLAN

**GH2 ARCHITECTS**

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GH2 PROJECT NUMBER:  
**20220001**

ISSUE DATE:  
**10/03/2023**

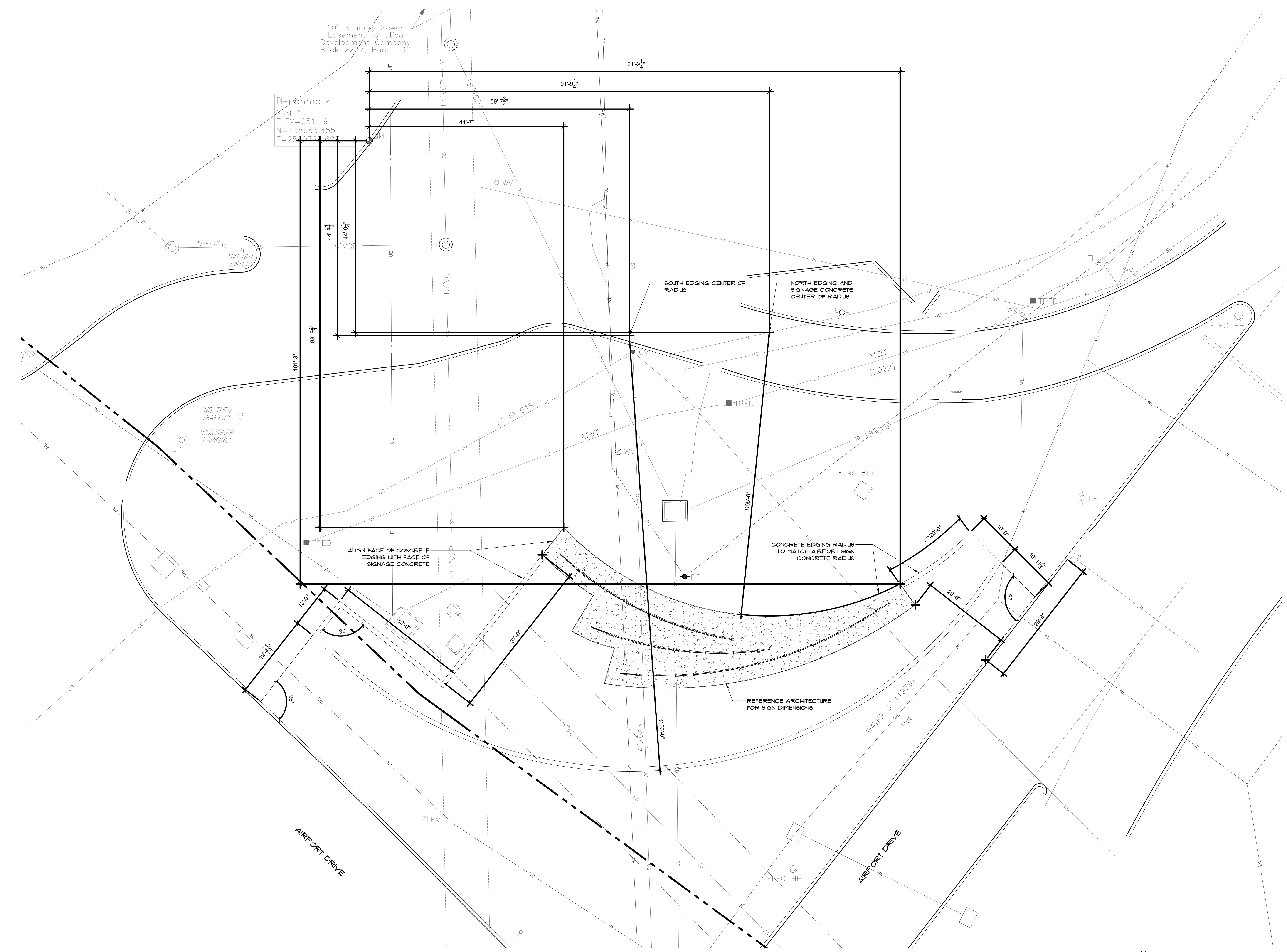
ISSUE:  
**CONSTRUCTION DOCUMENTS**

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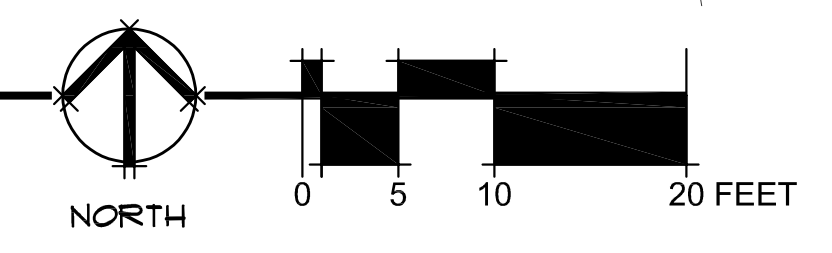
SHEET NAME:  
**LAYOUT AND DIMENSION PLAN**

SHEET NUMBER:  
**L302**

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**A** LAYOUT AND DIMENSION PLAN  
1" = 10'-0"





**TUL WAYFINDING**  
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**L401**  
PLANTING PLAN

**GH2 ARCHITECTS**

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**CONSTRUCTION DOCUMENTS**

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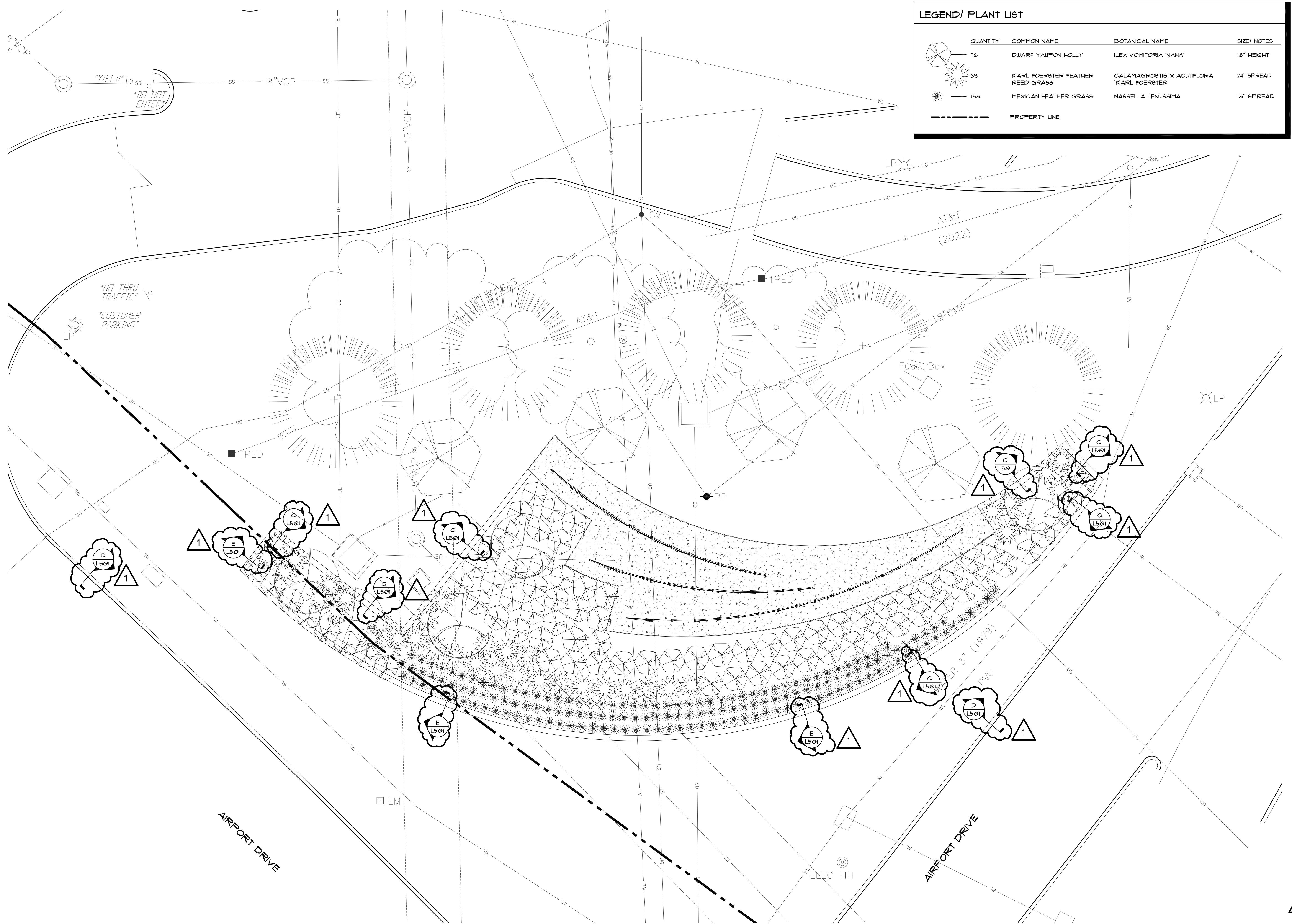
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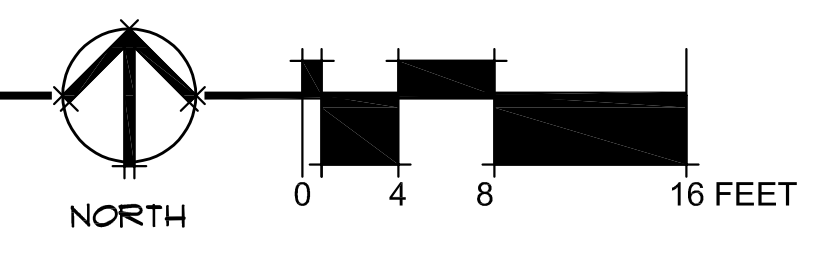
**L401**

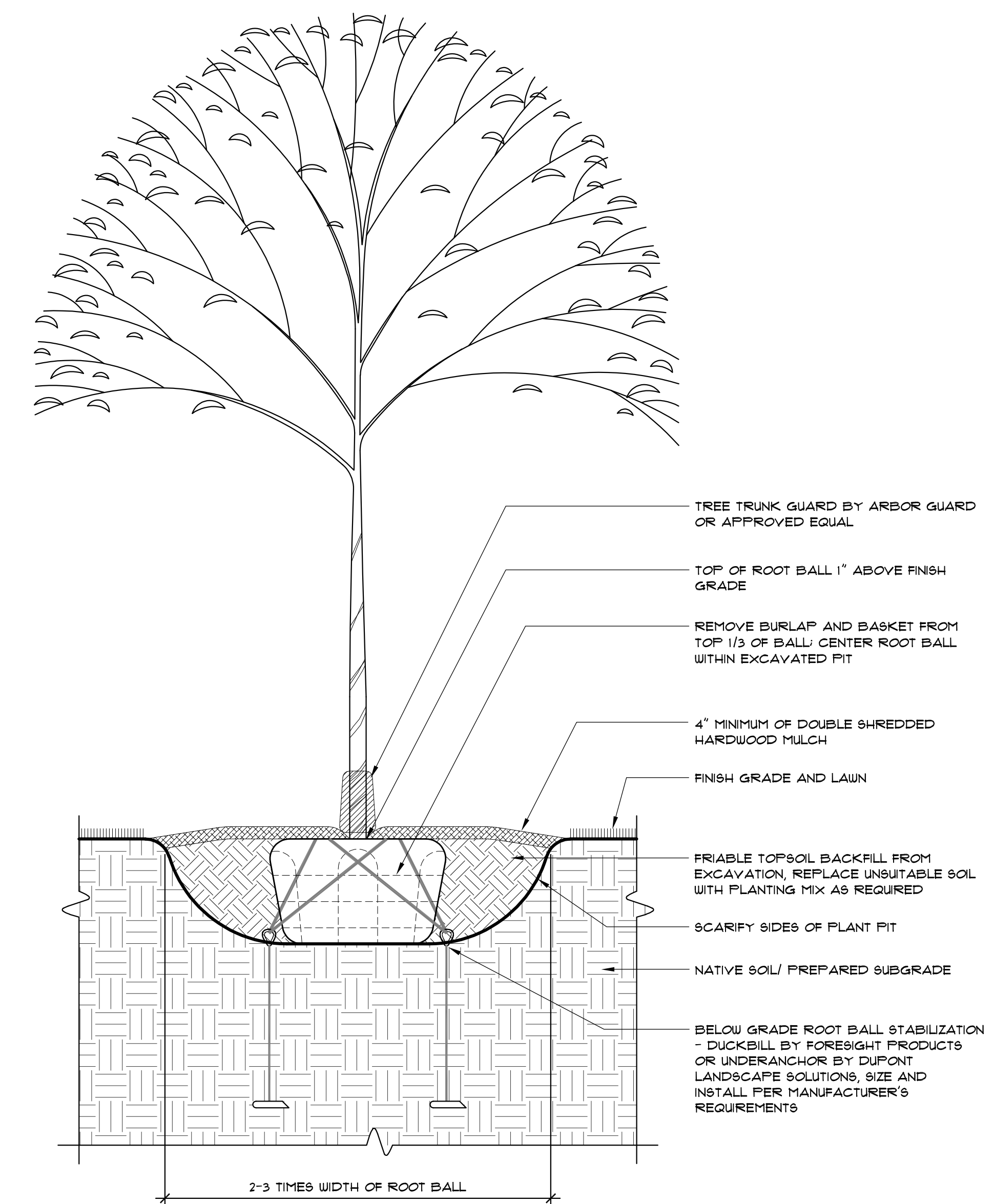
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QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE/ NOTES
76	DWARF YAUPON HOLLY	ILEX VOMITORIA 'NANA'	18" HEIGHT
33	KARL FOERSTER FEATHER REED GRASS	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	24" SPREAD
158	MEXICAN FEATHER GRASS	NASSELLA TENUSSIMA	18" SPREAD
- - - - - PROPERTY LINE			

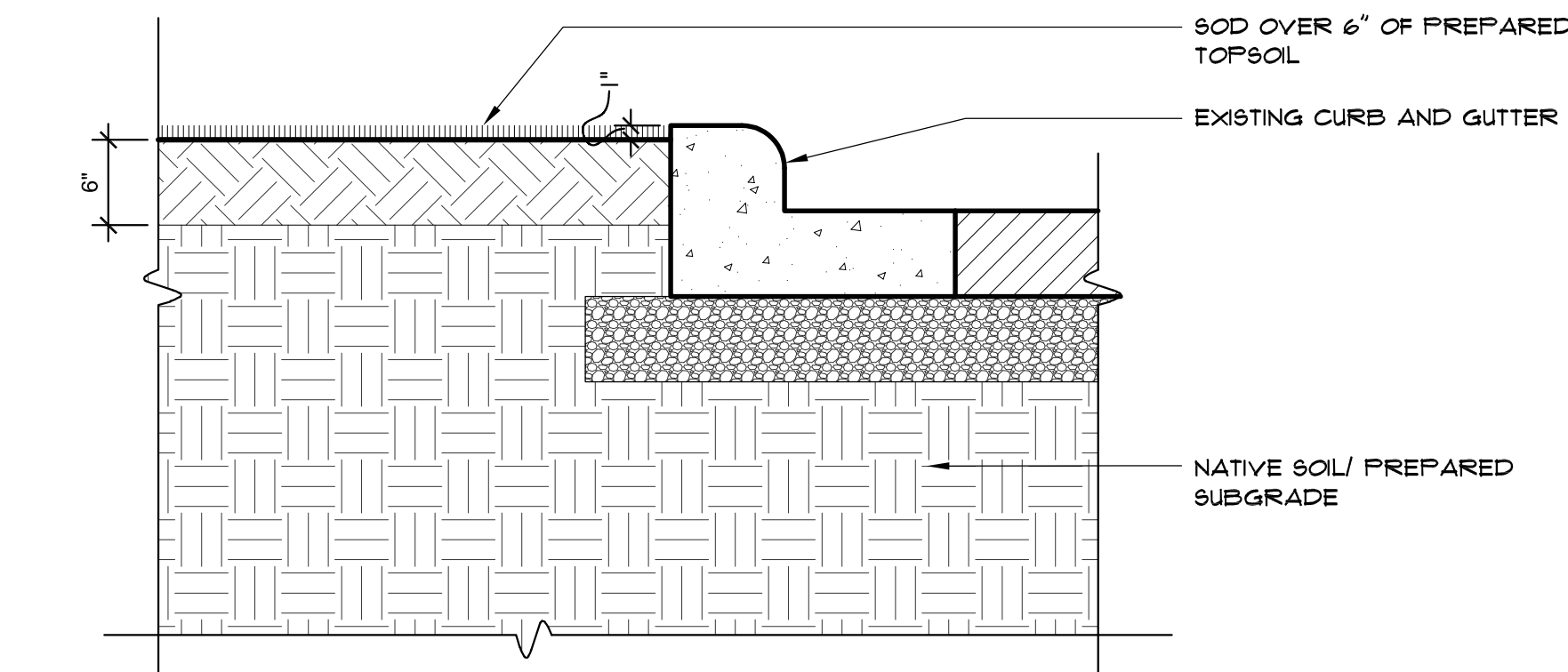


**A** **PLANTING PLAN**  
1/8" = 1'-0"

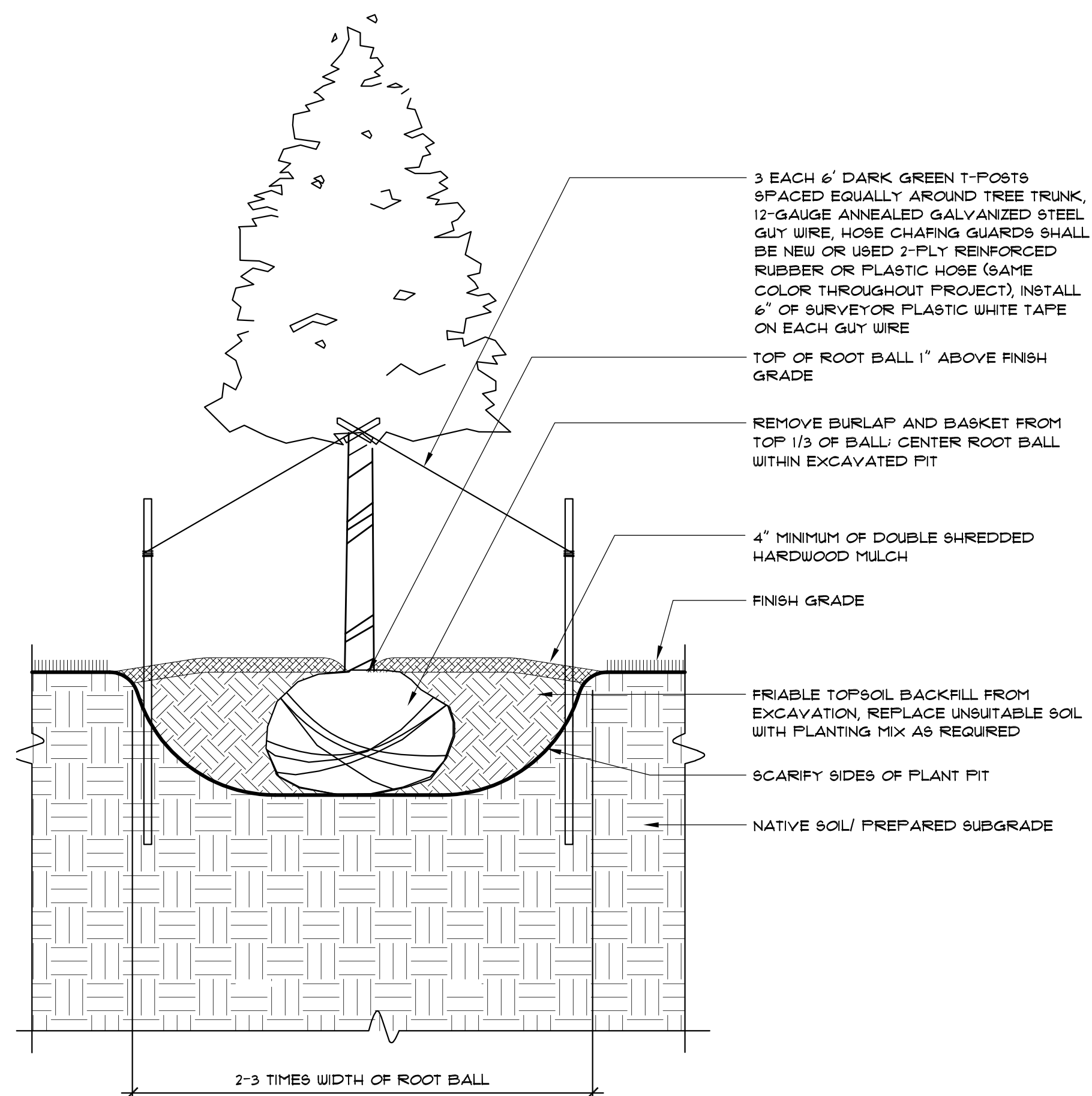




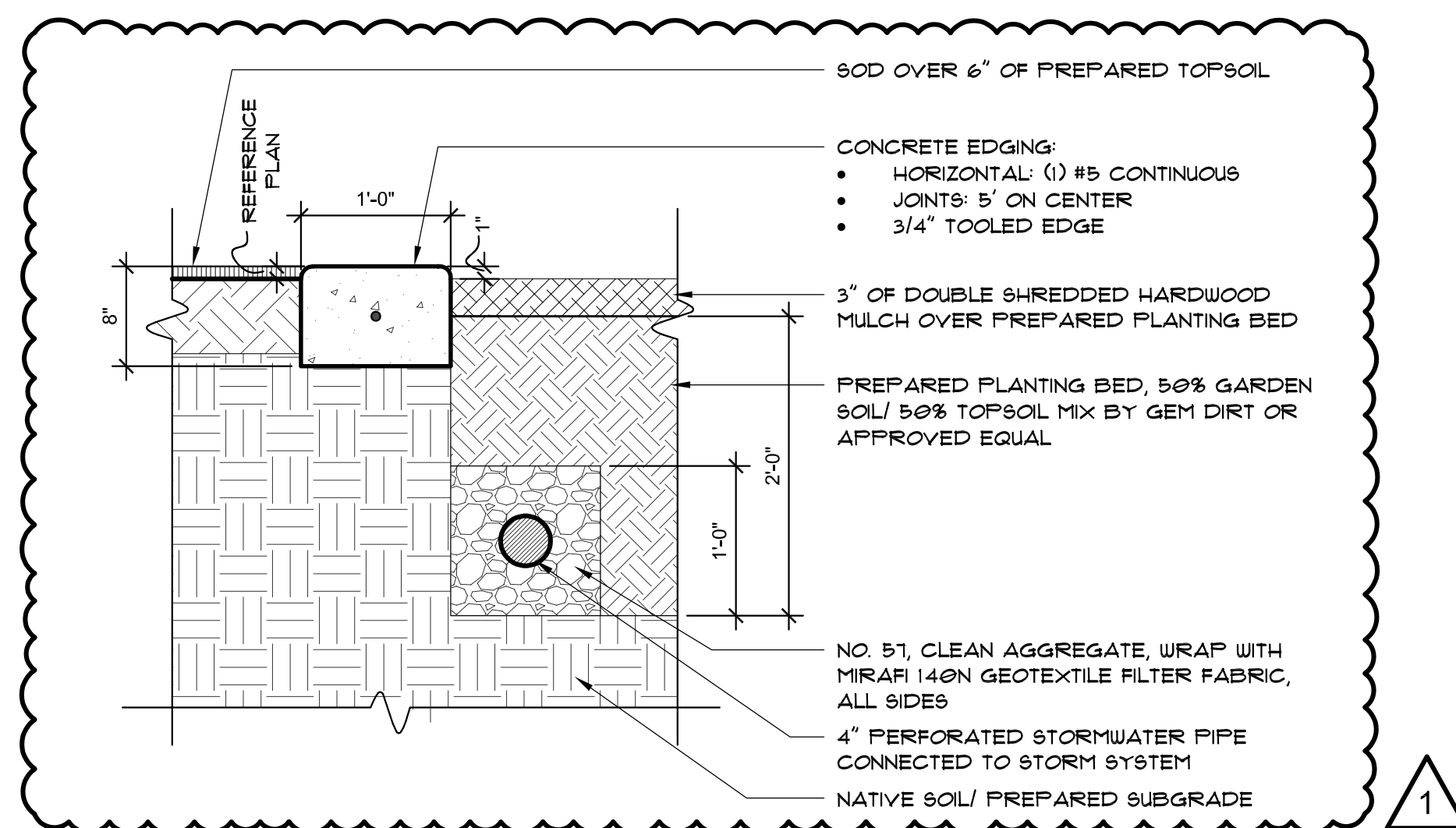
**A** DECIDUOUS TREE PLANTING DETAIL  
SCALE: 1/2" = 1'-0"



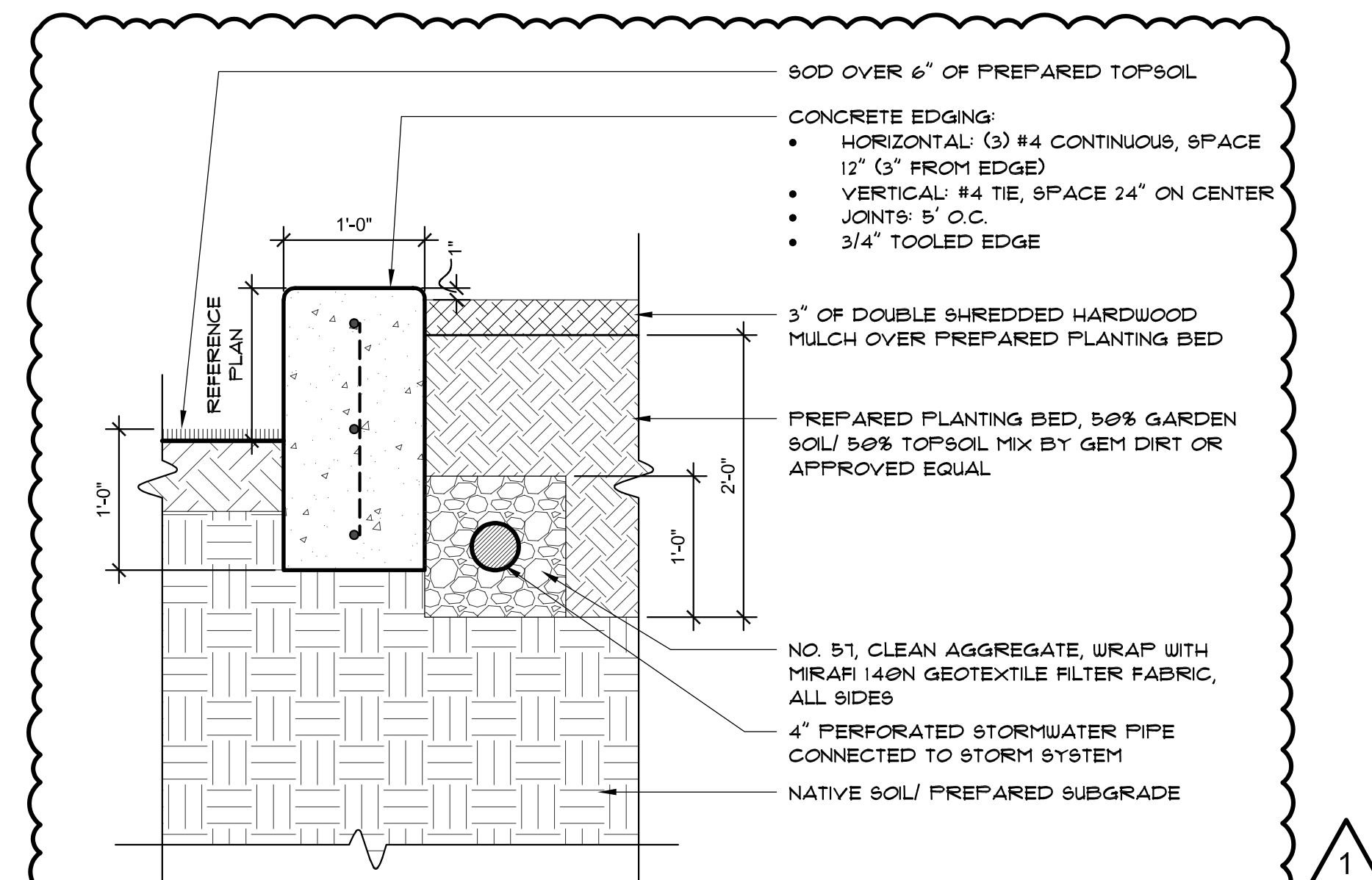
**D** SOD AT CURB DETAIL  
SCALE: 1" = 1'-0"



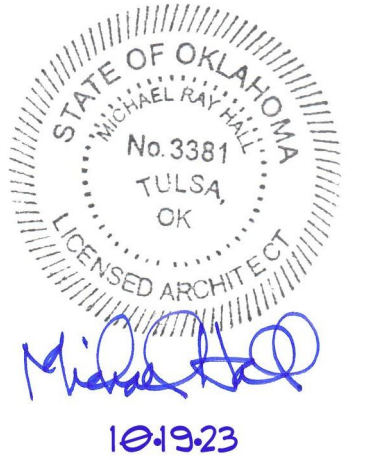
**B** EVERGREEN TREE PLANTING DETAIL  
SCALE: 1/2" = 1'-0"



**E** CONCRETE EDGING DETAIL AT LANDSCAPE BED  
SCALE: 1" = 1'-0"



**C** ELEVATED CONCRETE EDGING DETAIL AT LANDSCAPE BED  
SCALE: 1" = 1'-0"



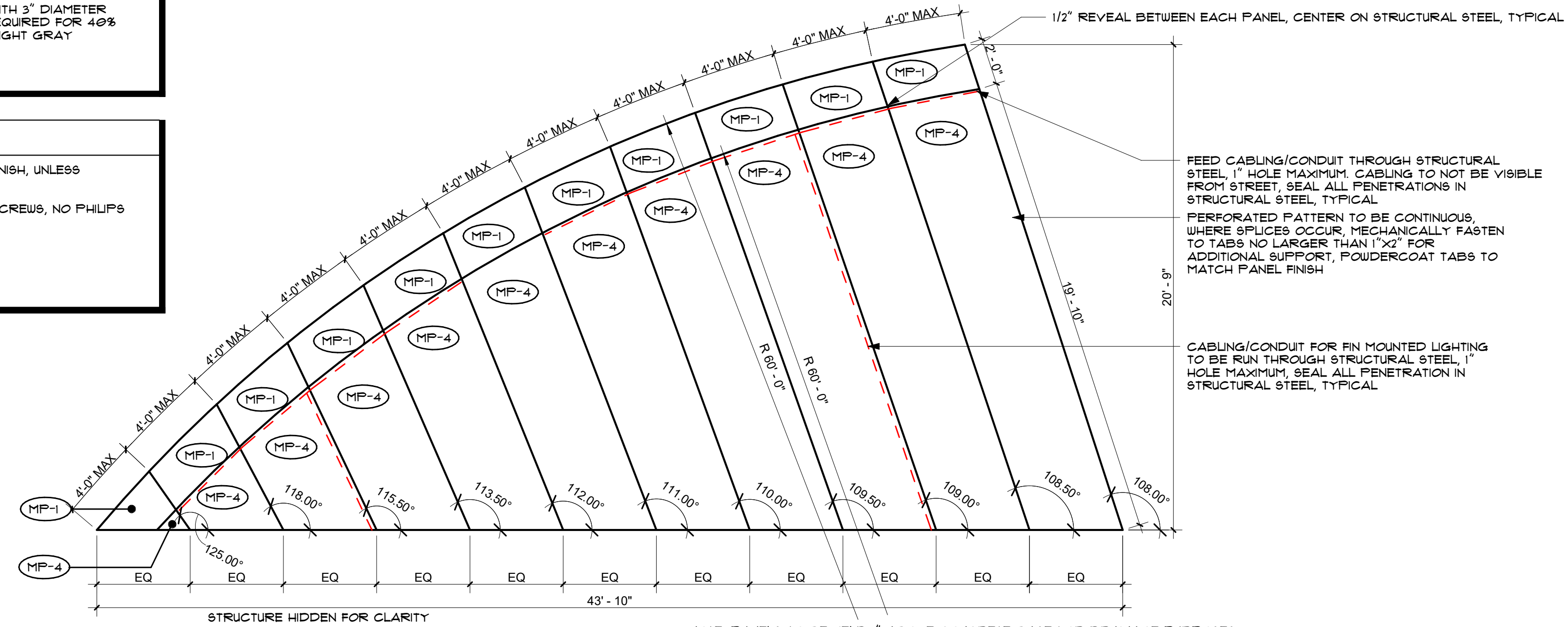
### EXTERIOR MATERIAL LEGEND

#### PERFORATED METAL PANELS - MP

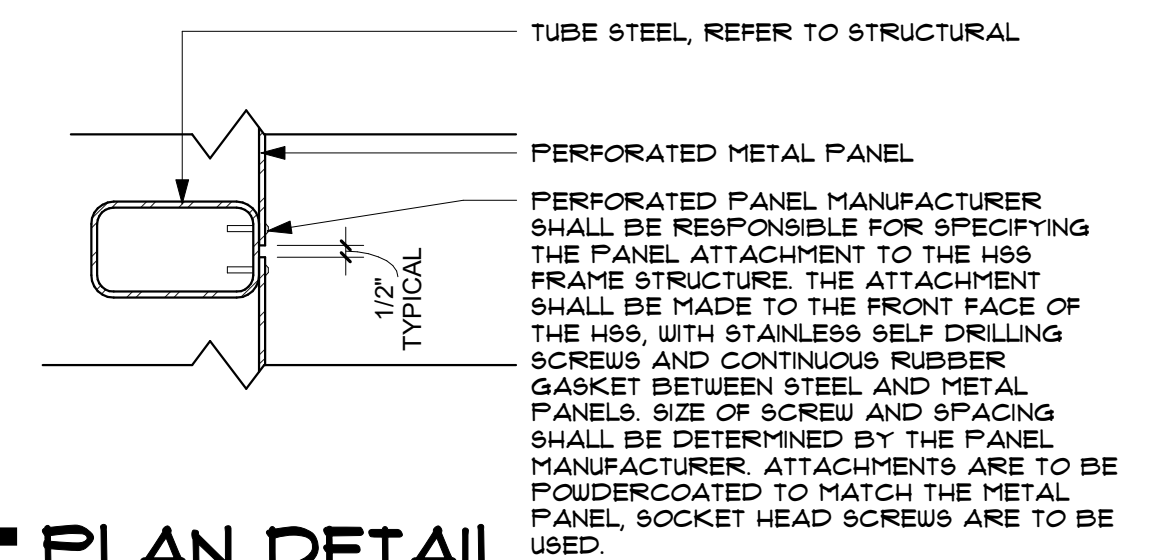
- MP-1** MONCHOLS & GAUGE PERFORATED METAL PANEL WITH 3/8" DIAMETER STAGGERED ROUND PERFORATIONS SPACED AS REQUIRED FOR 30% OPENNESS, POWDERCOATED TO MATCH RAL 1035 LIGHT GRAY
- MP-2** MONCHOLS & GAUGE PERFORATED METAL PANEL WITH 2" DIAMETER STAGGERED ROUND PERFORATIONS SPACED AS REQUIRED FOR 40% OPENNESS, POWDERCOATED TO MATCH RAL 1035 LIGHT GRAY
- MP-3** MONCHOLS & GAUGE PERFORATED METAL PANEL WITH 2.5" DIAMETER STAGGERED ROUND PERFORATIONS SPACED AS REQUIRED FOR 40% OPENNESS, POWDERCOATED TO MATCH RAL 1035 LIGHT GRAY
- MP-4** MONCHOLS & GAUGE PERFORATED METAL PANEL WITH 3" DIAMETER STAGGERED ROUND PERFORATIONS SPACED AS REQUIRED FOR 40% OPENNESS, POWDERCOATED TO MATCH RAL 1035 LIGHT GRAY

#### GENERAL NOTES

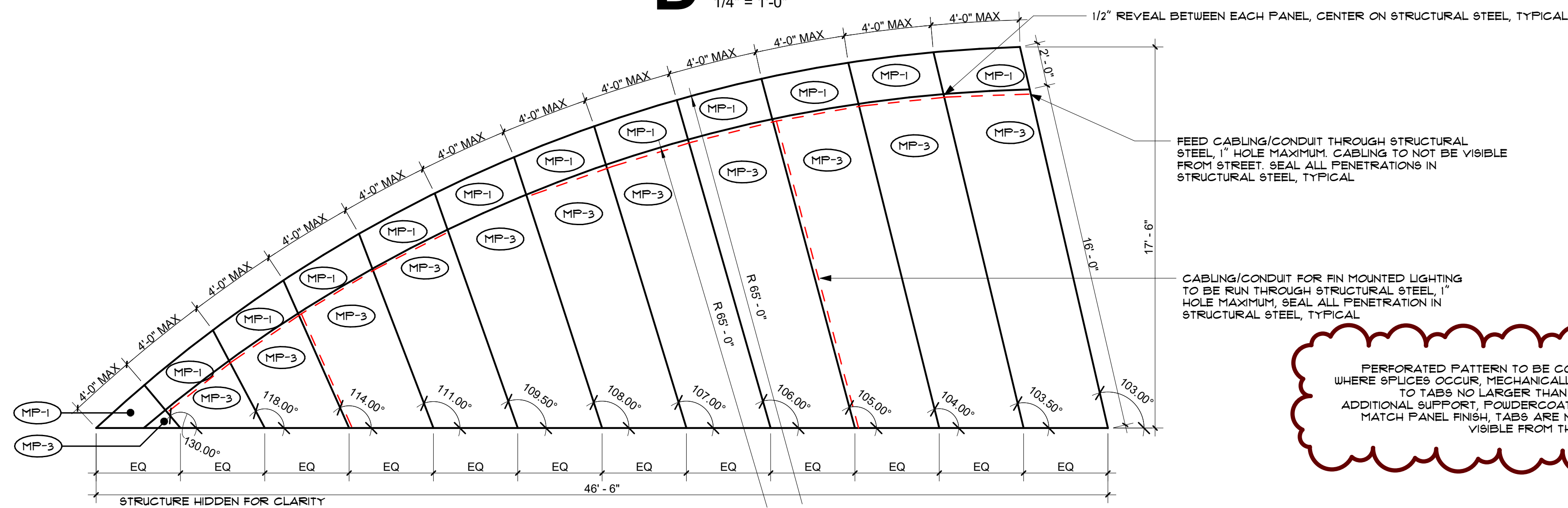
1. ALL EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR FINISH, UNLESS NOTED OTHERWISE.
2. ALL EXPOSED FASTENERS TO BE SOCKET HEAD OR TORX SCREWS, NO PHILIP HEAD OR FLAT HEAD SCREWS ARE TO BE USED.



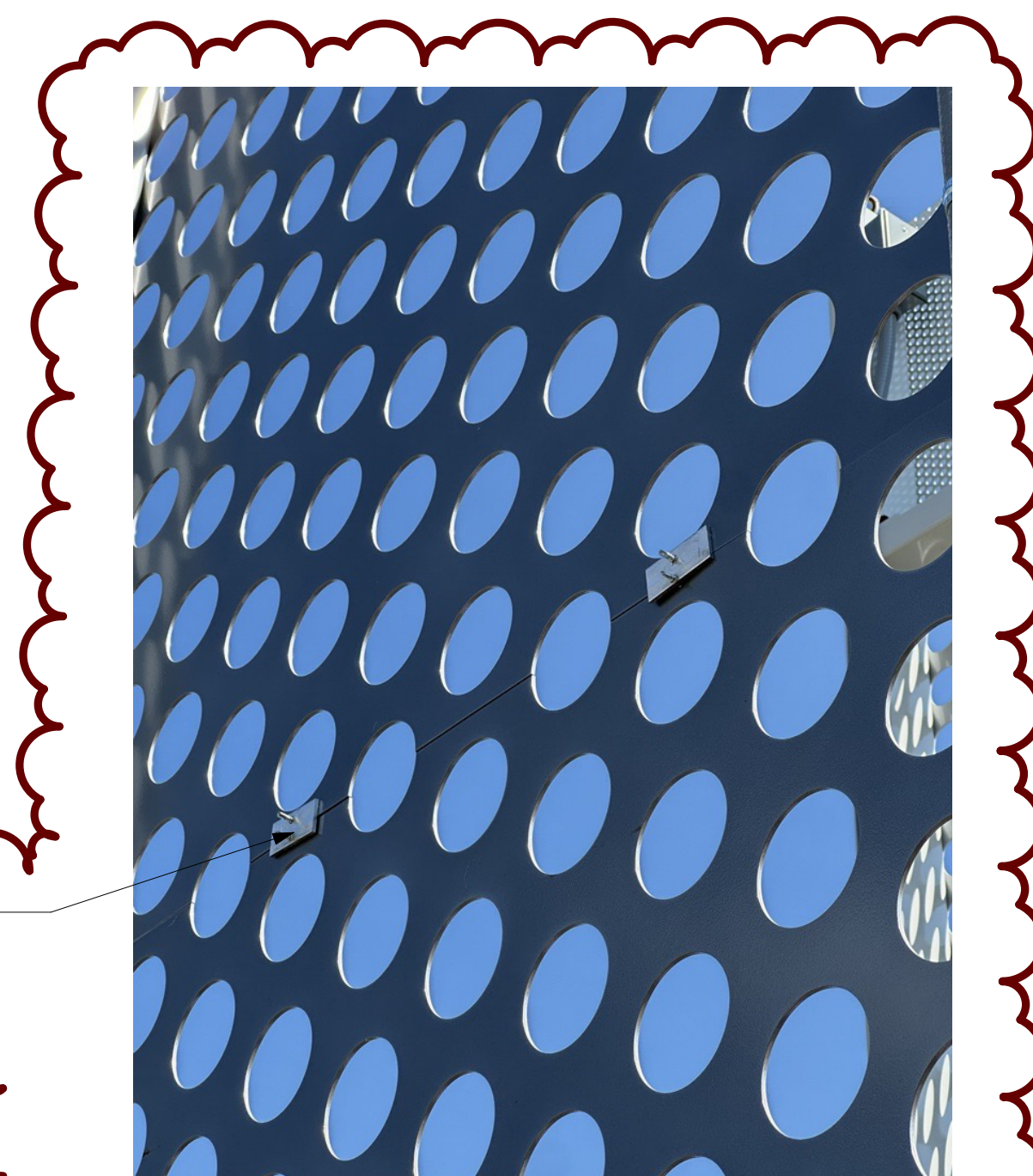
**D** FLATTENED ELEVATION - BACK FIN  
1/4" = 1'-0"



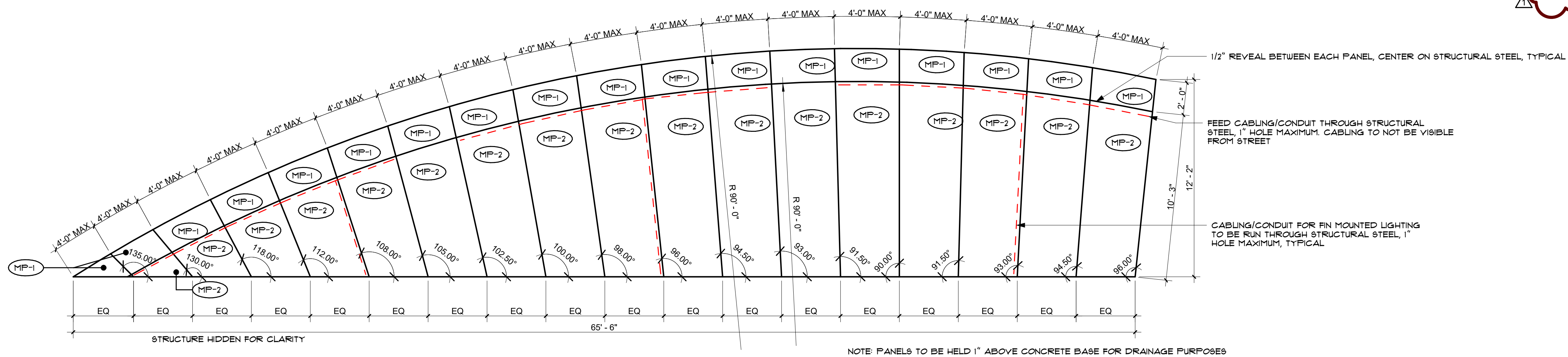
**E** PLAN DETAIL  
1 1/2" = 1'-0"



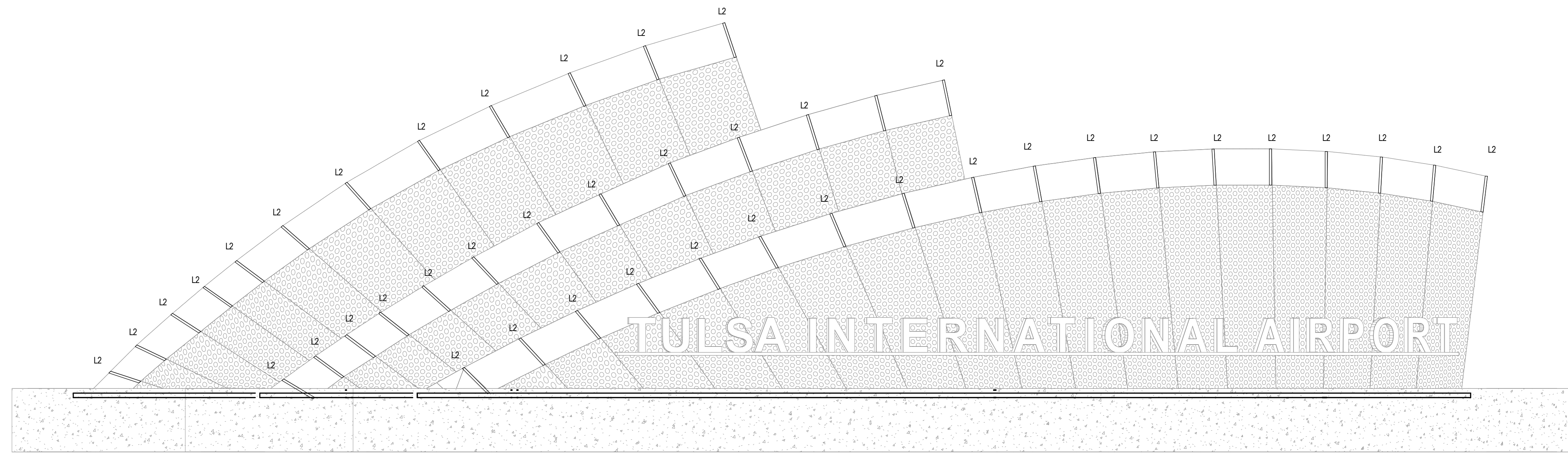
**C** FLATTENED ELEVATION - MIDDLE FIN  
1/4" = 1'-0"



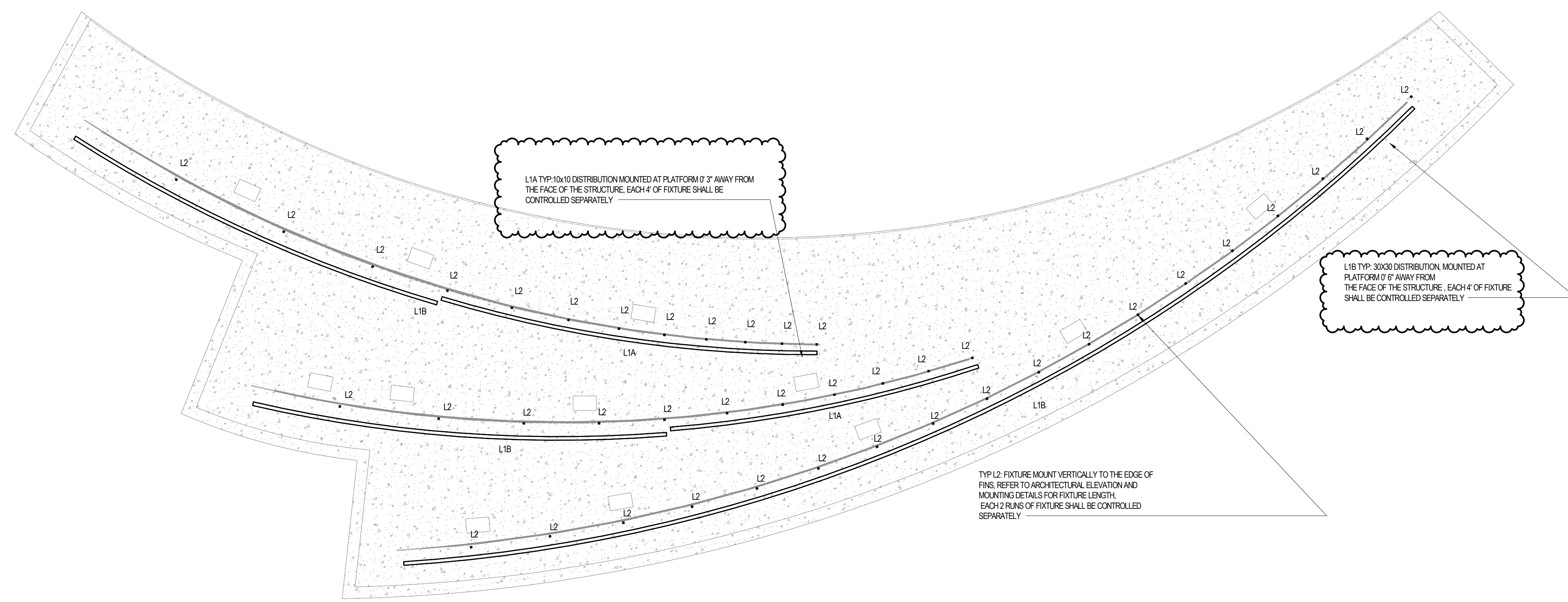
**F** SPLICE PLATE DETAIL  
1 1/2" = 1'-0"



**B** FLATTENED ELEVATION - FRONT FIN  
1/4" = 1'-0"



**2 ELEVATION**  
SCALE: 1/4" = 1'-0"



**1 LIGHTING PLAN**  
SCALE: 1/4" = 1'-0"

**DRAWING NOTES:**

- EACH 4' SECTION OF L1A AND L1B FIXTURES SHALL BE CONTROLLED SEPARATELY BY A DMX CONTROLLER. CONTRACTOR TO PROVIDE A COMBINATION OF AVAILABLE SIZES TO MAXIMIZE THE FIXTURE LENGTH AND MATCH THE DRAWING. PROVIDE SHOP DRAWING INDICATING THE LOCATION, FIXTURE PLACEMENT AND FEED LOCATION.
- EACH 2' RUNS OF L2 FIXTURES SHALL BE CONTROLLED SEPARATELY BY A DMX CONTROLLER. MANUFACTURE TO PRECUT THE FIXTURE BEFORE SHIPPING. PROVIDE SHOP DRAWING INDICATING THE LOCATION, FIXTURE PLACEMENT AND FEED LOCATION.
- FIXTURES SHALL BE CONTROLLED BY DMX CONTROLLER FROM A REMOTE LOCATION.
- DMX CONTROLLER MANUFACTURER TO PROVIDE 2 DAYS OF SCENE ADJUSTMENT SERVICES ON SITE.
- PROVIDE (8) DMX POWER SUPPLIES FOR TYPE L2 FIXTURES.
- TYPE L1A AND L1B FIXTURES HAVE INTEGRAL DMX POWER SUPPLIES (1) PER FIXTURE.
- CONTROL OF THE LIGHTING SYSTEM SHALL BE VIA PHAROS SYSTEM FROM PHAROS CONTROLS WHICH SHALL CONNECT TO THE NETWORK VIA CELLULAR MODEM.
- FOR EACH 20' W OF THE LOAD (L2 FIXTURES), ELECTRICAL CONTRACTOR SHALL LOCATE POWER SUPPLIES NO FURTHER THAN:
  - 20 AWG - MAX. 55 FT DISTANCE FROM THE FIXTURE
  - 18 AWG - MAX. 88 FT DISTANCE FROM THE FIXTURE
  - 16 AWG - MAX. 141 FT DISTANCE FROM THE FIXTURE

**INTERIM REVIEW ONLY**

THESE DOCUMENTS ARE INCOMPLETE. THEY ARE NOT INTENDED TO BE USED FOR PERMIT, BIDDING, OR CONSTRUCTION.

10/19/2023 12:32:34 PM

**TUL WAYFINDING**

7777 Airport Dr, Tulsa, OK 74115

**LD-100 LIGHTING PLAN**

**GH2 ARCHITECTS**

GH2.COM

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**10/18/2023**

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**Addendum 1**

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SHEET NAME:  
**LIGHTING PLAN**

SHEET NUMBER:  
**LD-100**

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**TUL WAYFINDING**

7777 Airport Dr, Tulsa, OK 74115

**LD-200**  
LIGHTING FIXTURE SCHEDULE

**GH2 ARCHITECTS**

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**Addendum 1**

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Add 1		10.18.2023

SHEET NAME:  
**LIGHTING  
FIXTURE  
SCHEDULE**

SHEET NUMBER:  
**LD-200**

LIGHTCRAFT LIGHTING FIXTURE SCHEDULE: (TULSA SIGNAGE)										
TYPE	DESCRIPTION	MANUFACTURER	WATTS	UNIT	LAMP TYPE	DRIVER	PROJECT CONTROL	VOLTAGE	COMMENTS	LOCATION
L1A	LINEAR SURFACE MOUNT COLOR CHANGING RGBW LED GRAZER WITH NARROW 10X11 DISTRIBUTION AND SHIELD. AVAILABLE AS 12", 24" 36" AND 48" INTEGRAL DRIVER. CORROSION RESISTANT, ADJUSTABLE MOUNTING, 12" ADDRESSABLE SECTIONS. NOM DIM: 2 3/16" W X LENGTH X 4 1/8" H	LUMENPULSE LUMEN FAÇADE MAX #LFM-CR-UL-12-277-LENGT H-22W-MRGBW30-10X10-C L-DMX-NVR-SM-XD-SI-SH	24	EA	LED RGBY 3000K 85CRI DELIVERED LUMENS 925LF by LIGHTING MANUFACTURER	INTEGRAL DRIVER	DMX CONTROLLER	277	PROVIDE SHOP DRAWINGS CONTRACTOR TO PROVIDE A COMBINATION OF AVAILABLE SIZES TO MAXIMIZE THE FIXTURE LENGTH AND MATCH THE DRAWING. DMX CONTROLLER MANUFACTURER TO PROVIDE 2 DAYS OF SCENE ADJUSTMENT SERVICES ON SITE. EACH 8" SECTION OF FIXTURE SHALL BE CONTROLLED SEPARATELY	SIGNAGE MOUNTED AT PLATFORM
L1B	SAME AS L1A BUT WITH 30X30 DISTRIBUTION	LUMENPULSE LUMEN FAÇADE MAX #LFM-CR-UL-12-277-LENGT H-22W-MRGBW30-30X30-C L-DMX-NVR-SM-XD-SI-SH	24	EA	LED RGBY 3000K 85CRI DELIVERED LUMENS 925LF by LIGHTING MANUFACTURER	INTEGRAL DRIVER	DMX CONTROLLER	277	PROVIDE SHOP DRAWINGS CONTRACTOR TO PROVIDE A COMBINATION OF AVAILABLE SIZES TO MAXIMIZE THE FIXTURE LENGTH AND MATCH THE DRAWING. DMX CONTROLLER MANUFACTURER TO PROVIDE 2 DAYS OF SCENE ADJUSTMENT SERVICES ON SITE. EACH 8" SECTION OF FIXTURE SHALL BE CONTROLLED SEPARATELY	SIGNAGE MOUNTED AT PLATFORM
L2	FLEXIBLE LINEAR DIRECT VIEW RGBW LED. FULLY ENCAPSULATED IP67 FOR EXTERIOR APPLICATIONS. FIXTURE SHALL MOUNT VERTICALLY ON TOP PORTION OF FINNS WITH PVC CHANNEL AS SHOWN ON ARCHITECTURAL DRAWINGS. NOM DIM: 0.87" W X 0.72" H X LENGTH	QTRIAN KURV-RGBW #KURV-RGBW-PPS-FT-RGB W-WET-30-ENGLT-S2-CON NECTOR-CONNECTOR-WH -E #QOM-ELED-DMX	6	LF	LED RGBW 96 CRI DELIVERED LUMEN 601LF by LIGHTING MANUFACTURER	REMOTE DMX DRIVER	DMX CONTROLLER	24	PROVIDE SHOP DRAWINGS ( WHERE FIXTURES CONNECT ON A SINGLE RUN PROVIDE CLEAR CAPS, AT THE END OF RUNS PROVIDE WHITE END CAPS) MANUFACTURER TO PRECUT THE FIXTURES WITH LENGTH SHOWN ON THE DRAWINGS. EC TO CONFIRM THE CONNECTOR LOCATION DMX CONTROLLER MANUFACTURER TO PROVIDE 2 DAYS OF SCENE ADJUSTMENT SERVICES ON SITE. EACH TWO RUNS OF FIXTURE SHALL BE CONTROLLED SEPARATELY. ELECTRICAL ENGINEER TO SPECIFY THE DMX CONTROLLER SYSTEM	SIGNAGE FRONT FACE

**LIGHTING FIXTURE SCHEDULE GENERAL NOTES**

- LED DRIVER: ELECTRICAL CONTRACTOR TO VERIFY LOAD TYPE COMPATIBILITY AND INTERCONNECTING WIRING REQUIRED FOR CONTROL SYSTEM.
- ALL FINAL FINISHES TO BE APPROVED BY ARCHITECT.
- ALL REMOTE DRIVERS TO BE LOCATED IN A HIDDEN, ACCESSIBLE AND VENTILATED LOCATION, UNLESS OTHERWISE NOTED.
- REFER TO LIGHTING FIXTURE CUT SHEETS IN SEPARATE DOCUMENT.
- A FULL AND COMPLETE SUBMITTAL PACKAGE IS REQUIRED FOR REVIEW AND SHALL INCLUDE: MANUFACTURER'S PRODUCT DATA SHEETS FOR EACH FIXTURE TYPE INDICATING: TYPE, DIMENSIONS, BALLAST/DRIVER QUANTITY, LAMP/SOURCE QUANTIT...
- A MAXIMUM OF ONE (1) SUBMISSION OF SUBSTITUTIONS OF LIGHTING FIXTURES SHALL BE REVIEWED, AFTER WHICH TIME THE CONTRACTOR WILL BE REQUIRED TO SUBMIT AS SPECIFIED.