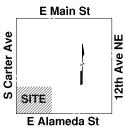


Application for Floodplain Permit

Norman Nature Park





Submitted for Review on May 15, 2024







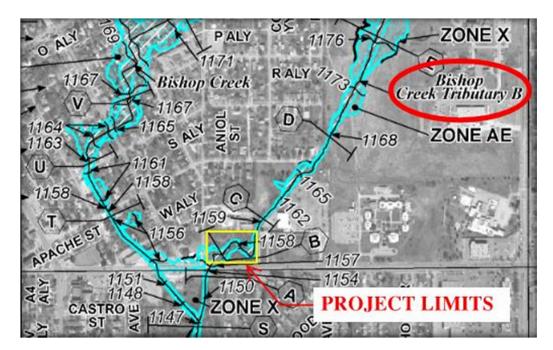
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I. Introduction

This project will provide a Nature Park in the heart of the City of Norman. The park features will include a play ground, walking trails, lookout station, and a raingarden. The park will allow the opportunity to provide compensatory storage for the stormwater to help with local flooding and its use of low impact development (LID) features such as pervious pavement at the proposed parking area provides a chance to improve the storwater quality for the overall watershed. The proposed rain garden and lookout station will be used for educational purposes to introduce the visitors to native vegetation and wetland functions.

The proposed park will be located on the northeast corner of the intersection of East Alameda Street and South Carter Avenue. It will have Alameda Church of Christ on the east and a commercial property on its north. The construction cost of the project is estimated at \$1,200,000. Tributary B of Bishop Creek is located within the limits of proposed park and the proposed improvement will impact that creek's floodplain area. The limits of regulatory floodplain as shown on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) is shown below. The proposed improvements will not adversely impact any of the neighboring properties. Included in this document are required documentation for a request for a Floodplain Permit for the project.



Limits of regulatory Floodplain as shown on FEMA FIRM Panel 40027C0285H

CITY OF NORMAN FLOODPLAIN PERMIT APPLICATION

FOR

NORMAN NATURE PARK PROJECT



City of Norman

Floodplain Permit No.

Floodplain Permit Application

Building Permit No. _____

Date _____

FLOODPLAIN PERMIT APPLICATION

(\$100.00 Application Fee Required)

SECTION 1: GENERAL PROVISIONS (APPLICANT to read and sign):

- 1. No work may start until a permit is issued.
- 2. The permit may be revoked if any false statements are made herein.
- 3. If revoked, all work must cease until permit is re-issued.
- 4. Development shall not be used or occupied until a Certificate of Occupancy is issued.
- 5. The permit will expire if no work is commenced within 2 years of issuance.
- 6. Applicant is hereby informed that other permits may be required to fulfill local, state and federal regulatory requirements and must be included with this floodplain permit application.
- 7. Applicant hereby gives consent to the City of Norman or his/her representative to access the property to make reasonable inspections required to verify compliance.
- 8. The following floodplain modifications require approval by the City Council:
 - (a) A modification of the floodplain that results in a change of ten percent (10%) or more in the width of the floodplain.
 - (b) The construction of a pond with a water surface area of 5 acres or more.
 - (c) Any modifications of the stream banks or flow line within the area that would be regulatory floodway whether or not that channel has a regulatory floodplain, unless the work is being done by the City of Norman staff as part of a routine maintenance activity.

9. All supporting documentation required by this application is required along with the permit fee by the submittal deadline. Late or incomplete applications will not be accepted.

10. I, THE APPLICANT, CERTIFY THAT ALL STATEMENTS HEREIN AND IN ATTACHMENTS TO THIS APPLICATION ARE, TO THE BEST OF MY KNOWLEDGE, TRUE AND ACCURATE.

SECTION 2: PROPOSED DEVELOPMENT (To be completed by APPLICANT.)

| APPLICANT: The City of Norman Parks & Recreation Department | ADDRESS: 225 N. Webster Avenue, Norman, OK 73069 |
|---|--|
| TELEPHONE: 405-366-5472 | SIGNATURE: |
| | |
| BUILDER: | ADDRESS: |
| TELEPHONE: | SIGNATURE: |
| | |
| ENGINEER: LMRK Engineering | ADDRESS: 7212 NW 129th Street, Oklahoma City, OK 73142 |
| TELEPHONE: 405-394-6649 | SIGNATURE: Rug Klikger |

PROJECT LOCATION

To avoid delay in processing the application, please provide enough information to easily identify the project location. Provide the street address, subdivision addition, lot number or legal description (attach) and, outside urban areas, the distance to the nearest intersecting road or well known landmark. A sketch attached to this application showing the project location would be helpful.

The proposed Nature Park area is located on the northeast corner of the intersection of E. Alameda Street and S. Carter Avenue.

Alameda Street and Carter Avenue will be the south and west boundaries of the park and Alameda Church of Christ will be the on the east side of the park.

The park will be approximately 2.5 acres in size and will have Bishop Creek running through its limits.

DESCRIPTION OF WORK (Check all applicable boxes): A. STRUCTURAL DEVELOPMENT

<u>ACTIVITY</u> <u>STRUCTURE TYPE</u>

| □ New Structure | □ Residential (1-4 Family) |
|-----------------|---|
| □ Addition | □ Residential (More than 4 Family) |
| □ Alteration | □ Non-Residential (Flood proofing? □ Yes) |
| □ Relocation | Combined Use (Residential & Commercial) |
| Demolition | □ Manufactured (Mobile) Home |
| □ Replacement | □ In Manufactured Home Park? □ Yes |

ESTIMATED COST OF PROJECT <u>\$ 1200000</u> Work that involves substantial damage/substantial improvement requires detailed cost estimates and an appraisal of the structure that is being improved.

B. OTHER DEVELOPMENT ACTIVITIES:

- ☑ Fill □ Mining □ Drilling ☑ Grading
- **Excavation** (Beyond the minimum for Structural Development)
- □ Watercourse Alteration (Including Dredging and Channel Modifications)
- Drainage Improvements (Including Culvert Work) D Road, Street or Bridge Construction
- □ Subdivision (New or Expansion) □ Individual Water or Sewer System

In addition to items A. and B. provide a complete and detailed description of proposed work (failure to provide this item will be cause for the application to be rejected by staff). Attach additional sheets if necessary.

The park will include a parking lot and recreation/education area that will mainly be out of the floodplain area. The proposed rain garden area and trail system will encroach into the floodplain area however none of the proposed features that will be constructed

within the floodplain area will be permanent features that would significantly impede the movement of flow in the floodplain. The fill needed for the construction of the proposed parking lot will encroach into the floodplain area however the lowering of the floodplain in the

educational area on the south side of the creek provides compensatory storage to remediate the imp

C. ATTACHMENTS WHICH ARE REQUIRED WITH EVERY APPLICATION:

The applicant must submit the documents listed below before the application can be processed. If the requested document is not relevant to the project scope, please check the Not Applicable box and provide explanation.

- A. Plans drawn to scale showing the nature, location, dimensions, and elevation of the lot, existing or proposed structures, fill, storage of materials, flood proofing measures, and the relationship of the above to the location of the channel, floodway, and the regulatory flood-protection elevation.
- B. A typical valley cross-section showing the channel of the stream, elevation of land areas adjoining each side of the channel, cross-sectional areas to be occupied by the proposed development, and high-water information.

□ Not Applicable:

C. Subdivision or other development plans (If the subdivision or other developments exceeds 50 lots or 5 acres, whichever is the lesser, the applicant <u>must</u> provide 100-year flood elevations if they are not otherwise available).

☑ Not Applicable:

D. Plans (surface view) showing elevations or contours of the ground; pertinent structure, fill, or storage elevations; size, location, and spatial arrangement of all proposed and existing structures on the site; location and elevations of streets, water supply, sanitary facilities; photographs showing existing land uses and vegetation upstream and downstream, soil types and other pertinent information.

□ Not Applicable:

E. A profile showing the slope of the bottom of the channel or flow line of the stream.

■ Not Applicable:

F. Elevation (in relation to mean sea level) of the lowest floor (including basement) of all new and substantially improved structures.

☑ Not Applicable:

G. Description of the extent to which any watercourse or natural drainage will be altered or relocated as a result of proposed development.

☑ Not Applicable:

- H. For proposed development within any flood hazard area (except for those areas designated as regulatory floodways), certification that a rise of no more than five hundredths of a foot (0.05') will occur on any adjacent property in the base flood elevation as a result of the proposed work. For proposed development within a designated regulatory floodway, certification of no increase in flood levels within the community during the occurrence of the base flood discharge as a result of the proposed work. All certifications shall be signed and sealed by a Registered Professional Engineer licensed to practice in the State of Oklahoma.
- I. A certified list of names and addresses of all record property owners within a three hundred fifty (350) foot radius of the exterior boundary of the subject property not to exceed 100 feet laterally from the Special Flood Hazard Area. The radius to be extended by increments of one hundred (100) linear feet until the list of property owners includes not less than fifteen (15) individual property owners of separate parcels or until a maximum radius of one thousand (1,000) feet has been reached.
- J. A copy of all other applicable local, state, and federal permits (i.e. U.S. Army Corps of Engineers 404 permit, etc).

After completing SECTION 2, APPLICANT should submit form to Permit Staff for review.

SECTION 3: FLOODPLAIN DETERMINATION (To be completed by Permit Staff.)

The proposed development is located on FIRM Panel No.:_____, Dated: ______

The Proposed Development:

□ Is NOT located in a Special Flood Hazard Area (Notify the applicant that the application review is complete and NO FLOODPLAIN PERMIT IS REQUIRED).

□ Is located in a Special Flood Hazard Area.

□ The proposed development is located in a floodway.

□ 100-Year flood elevation at the site is_____ Ft. NGVD (MSL) □ Unavailable

See Section 4 for additional instructions.

| SIGNED: | DATE: |
|---------|-------|
| | |

SECTION 4: ADDITIONAL INFORMATION REQUIRED (To be completed by Permit Staff.)

The applicant must also submit the documents checked below before the application can be processed.

- Flood proofing protection level (non-residential only) _____ Ft. NGVD (MSL). For flood proofed structures applicant must attach certification from registered engineer.
- Certification from a registered engineer that the proposed activity in a regulatory floodway will not result in any increase in the height of the 100-year flood (Base Flood Elevation). A copy of all data and calculations supporting this finding must also be submitted.
- Certification from a registered engineer that the proposed activity in a regulatory flood plain will result in an increase of no more than 0.05 feet in the height of the 100-year flood (Base Flood Elevation). A copy of all data and calculations supporting this finding must also be submitted.
- All other applicable federal, state, and local permits have been obtained.

Other: _____

SECTION 5: PERMIT DETERMINATION (To be completed by Floodplain Chairman.)

The proposed activity: (A) \square Is; (B) \square Is Not in conformance with provisions of Norman's City Code Chapter 22, Section 429.1. The permit is issued subject to the conditions attached to and made part of this permit.

SIGNED: DATE:

If **BOX A** is checked, the Floodplain committee chairman may issue a Floodplain Permit.

If **BOX B** is checked, the Floodplain committee chairman will provide a written summary of deficiencies. Applicant may revise and resubmit an application to the Floodplain committee or may request a hearing from the Board of Adjustment.

| APPEALS: Appealed to Board of Adjustment: Hearing date: | □Yes □No | |
|--|-----------|--|
| Board of Adjustment Decision - Approved: | □Yes □ No | |
| Conditions: | | |
| | | |

SECTION 6: AS-BUILT ELEVATIONS (To be submitted by APPLICANT before Certificate of Occupancy is issued.)

- 1. FEMA Elevation Certificate and/or
- 2. FEMA Floodproofing Certificate

NOTE: The completed certificate will be reviewed by staff for completeness and accuracy. If any deficiencies are found it will be returned to the applicant for revision. A Certificate of Occupancy for the structure will not be issued until an Elevation and /or Floodproofing Certificate has been accepted by the City.

NO RISE CERTIFICATION LETTER



3/15/2024

Jason Murphy, CFM Stormwater Program Manager City of Norman Public Works Stormwater Division 225 N. Webster Norman, OK 73069

Subject: No rise certification for Norman Nature Park project

Dear Mr. Murphy,

LMRK has evaluated the proposed park development area located at the northwest corner of Alameda Street and Carter Avenue. The proposed park features impact Bishop Creek Tributary B however, the impacts on the floodplain of the creek is offset by providing compensatory storage for stormwater in the park.

This letter is to certify that the proposed park features are not predicted to increase the base flood elevation on any of the neighboring properties. This conclusion is based on hydraulic analysis of the existing and proposed conditions.

Sincerely,

Reza Khakpour, P.É., CFM, CPESC, DBIA



APPLICABLE LOCAL, STATE, AND FEDERAL PERMITS

1 - United States Army Corps of Engineers letter



DEPARTMENT OF THE ARMY U.S. ARMY CORPS OF ENGINEERS, TULSA DISTRICT 2488 EAST 81ST STREET TULSA, OKLAHOMA 74137-4290

March 20, 2024

Regulatory Office

Mr. Reza Khakpour LMRK Engineering, LLC 7212 NW129th Street Oklahoma City, OK 73142

Dear Mr. Khakpour:

This is in reference to the Norman Nature Park Project, located in Section 29, Township 9 North, Range 2 West, in Cleveland County, Oklahoma. We have reviewed the submitted data relative to Section 404 of the Clean Water Act (CWA).

The provided information does not indicate that a placement of dredged or fill material will be required, permanently or temporarily, into any potential "waters of the United States," including potential jurisdictional wetlands. Therefore, your proposal is not subject to regulation pursuant to Section 404 of the CWA, and a Department of the Army (DA) permit will not be required. Should your method of construction necessitate such a discharge into an aquatic area or tributary stream, we suggest that you resubmit that portion of your project so that we may determine whether an individual DA permit will be required.

This "No Permit Required" determination does not address nor includes any consideration for geographic jurisdiction on aquatic resources and shall not be interpreted as such.

Although Section 404 of the CWA authorization is not required, this does not preclude the possibility that a real estate interest or other Federal, State, or local permits may be required.

If you desire to complete a "Customer Service Survey" on your experience with the Corps Regulatory Program, visit <u>https://regulatory.ops.usace.army.mil/customer-service-survey/</u> on the internet at your convenience and submit your comments.

This case has been assigned Identification No. SWT-2024-00087. Please refer to this number during any future correspondence. If you have any questions, please contact Mr. Rob Hoffmann at 918-669-7481.

Sincerely,

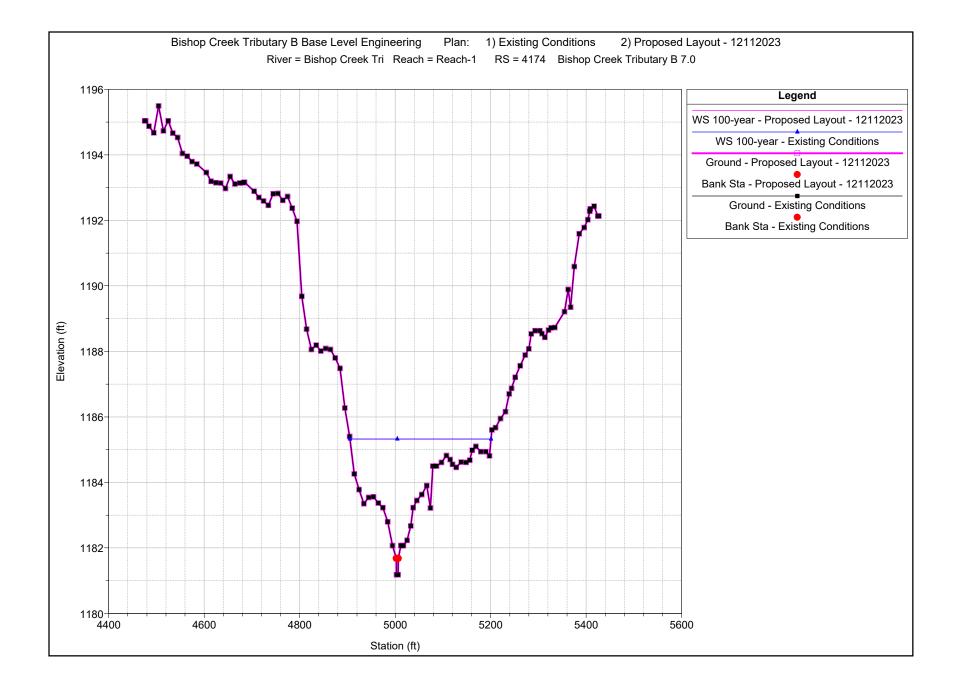
Rob Hoffmann

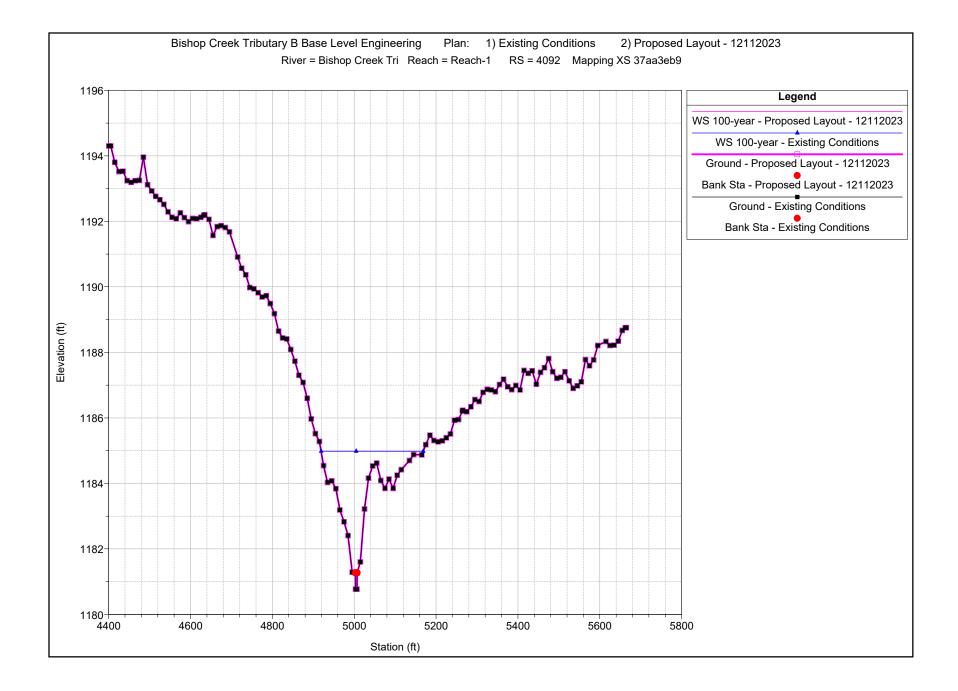
Andrew R. Commer Chief, Regulatory Office

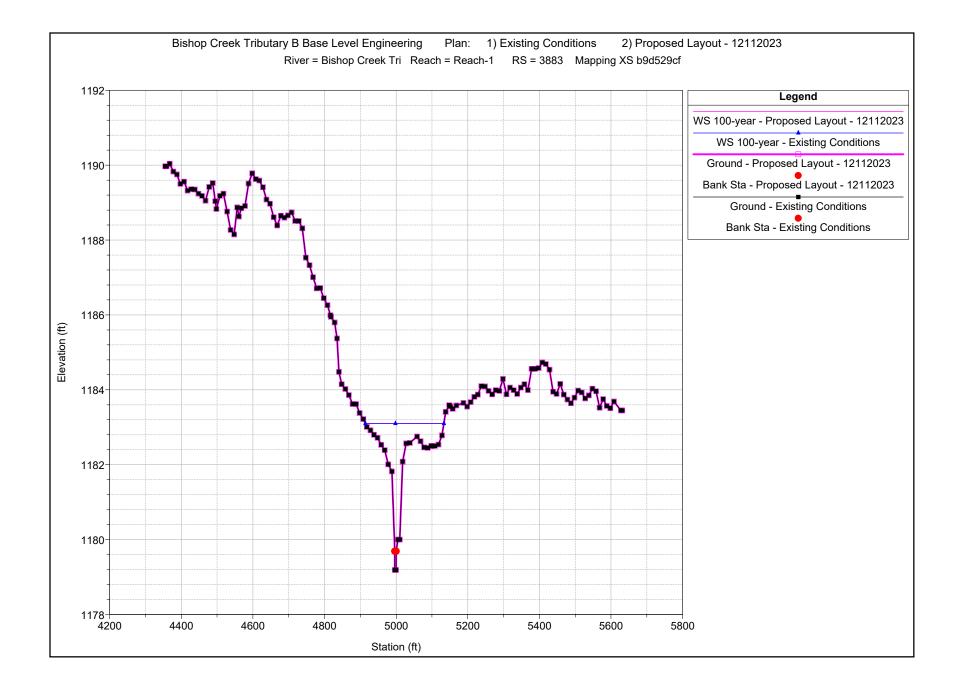
CHANNEL PROFILE AND CHANNEL CROSS SECTION

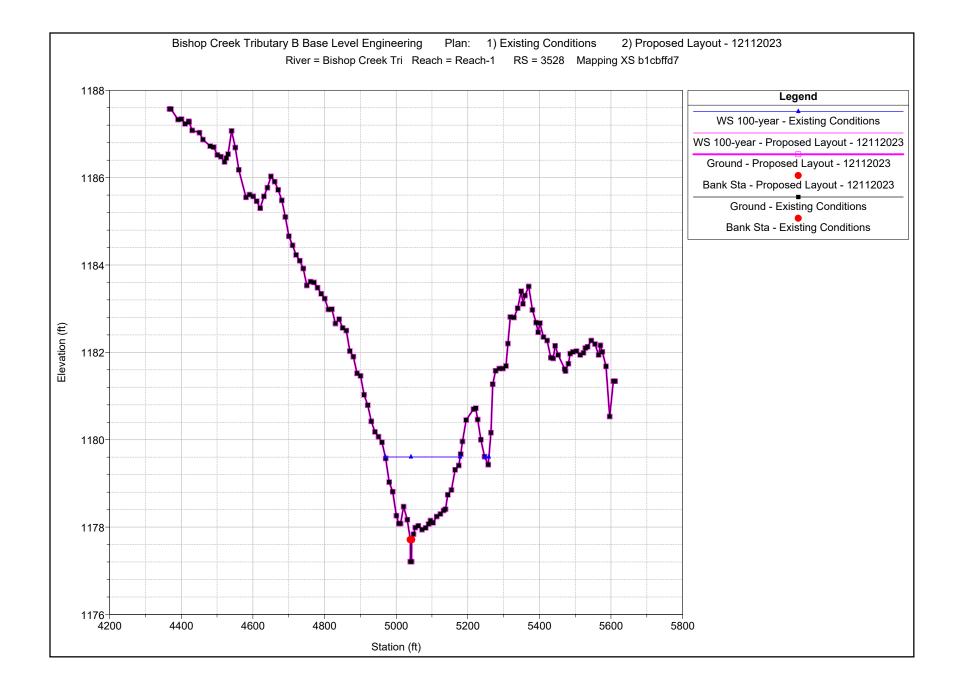
- Cross Section Location Map
 Channel Cross Sections
- 3 Channel Profile

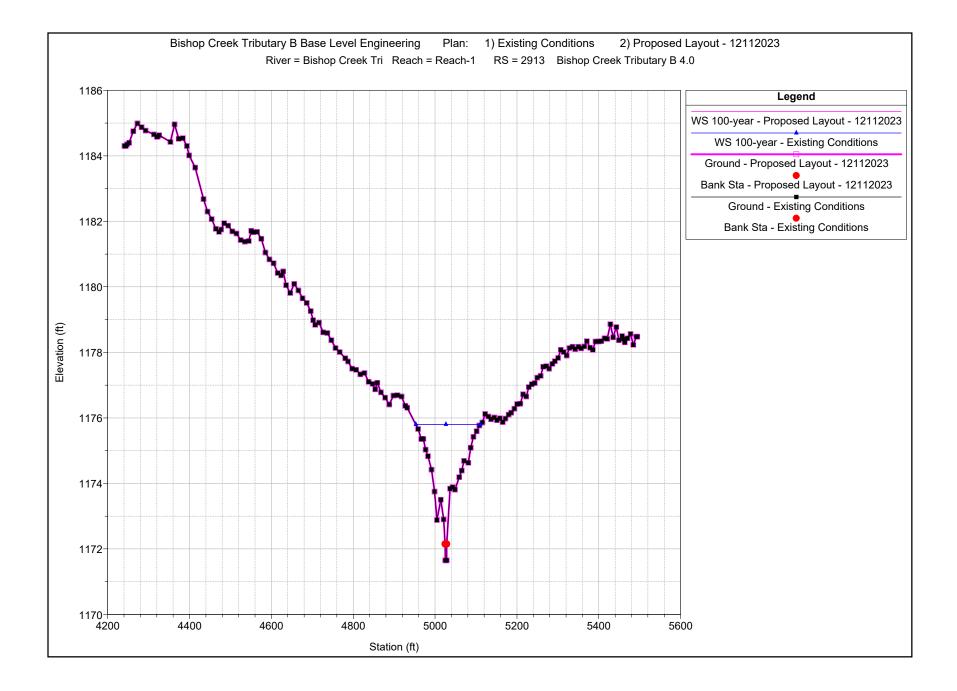


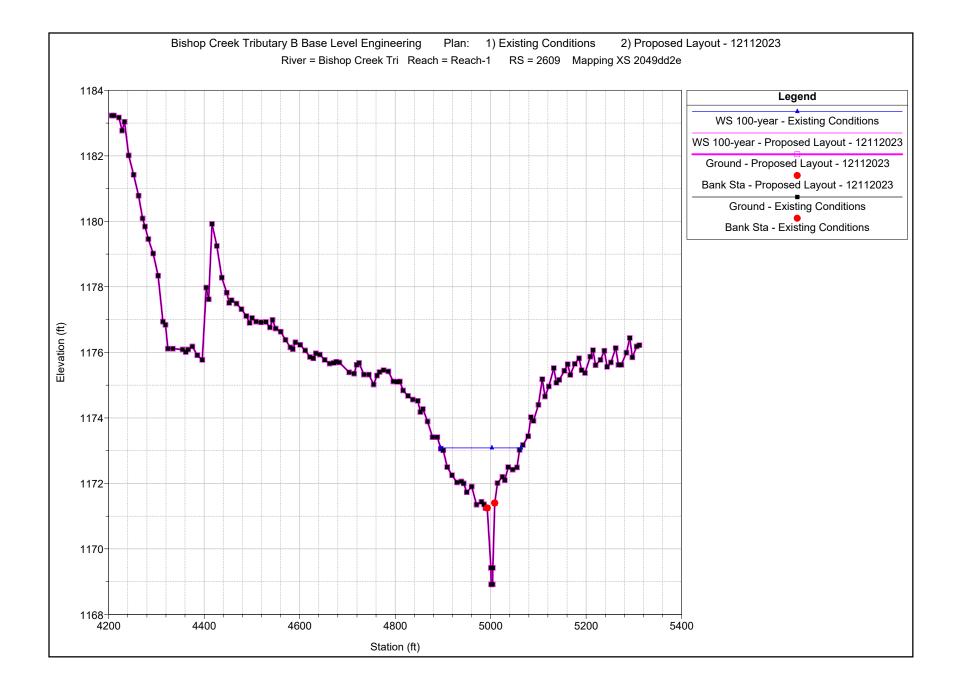


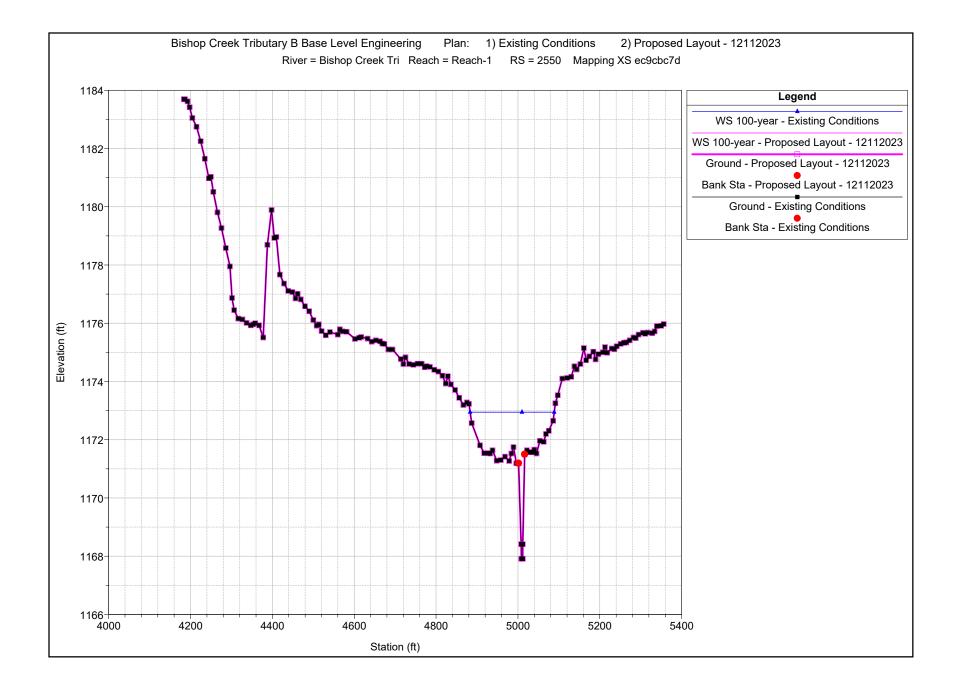


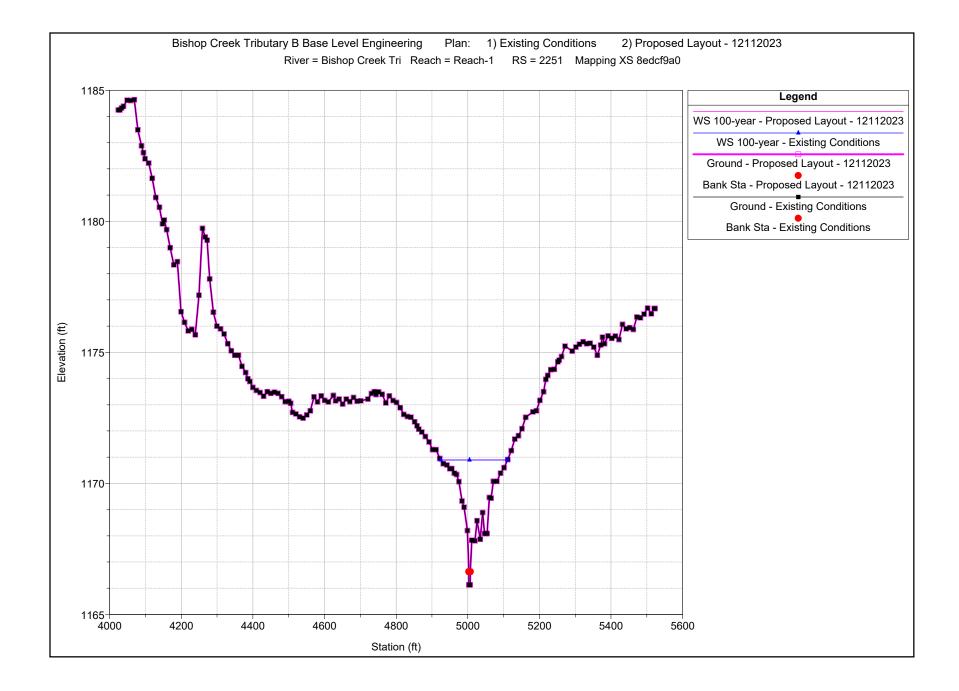


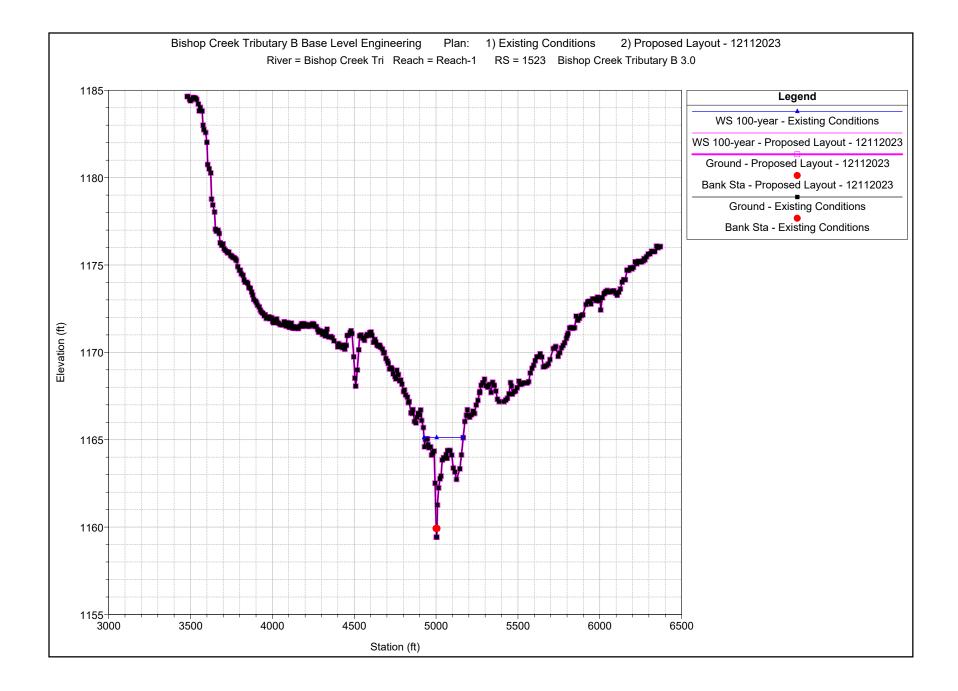


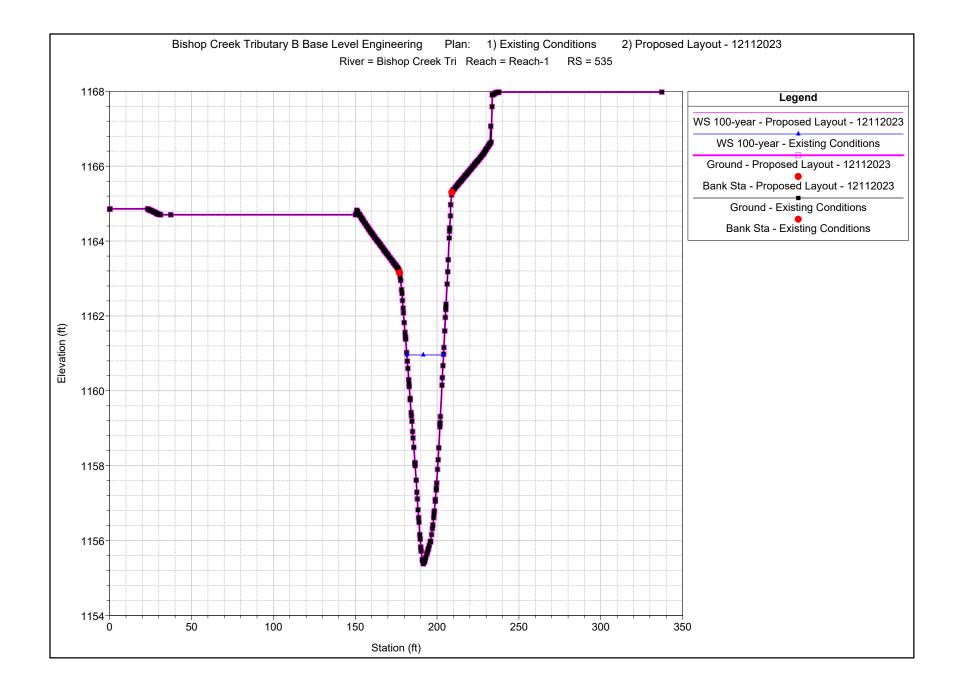


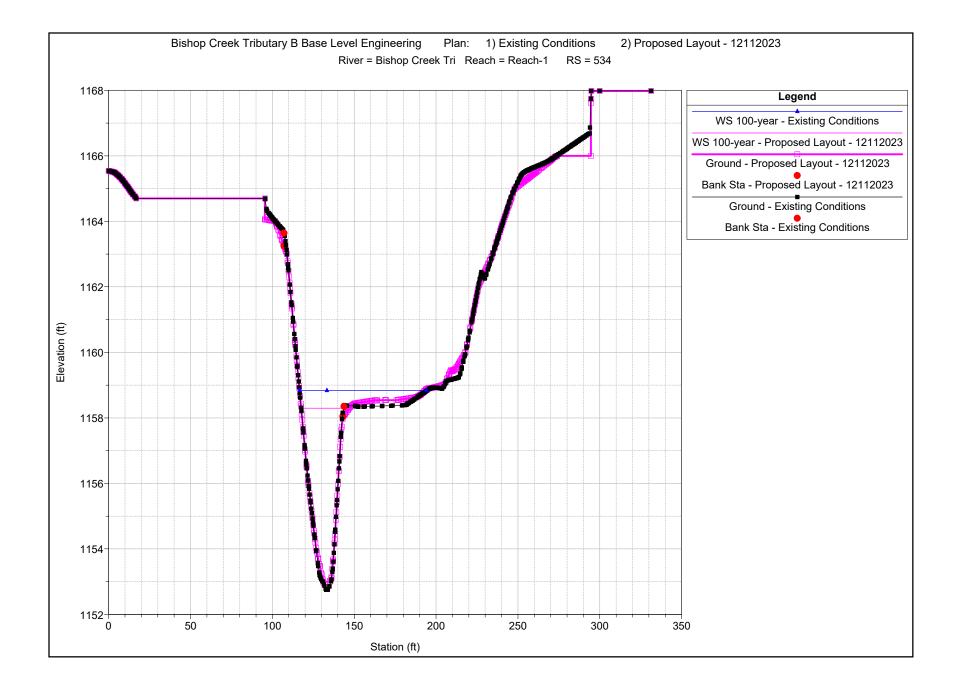


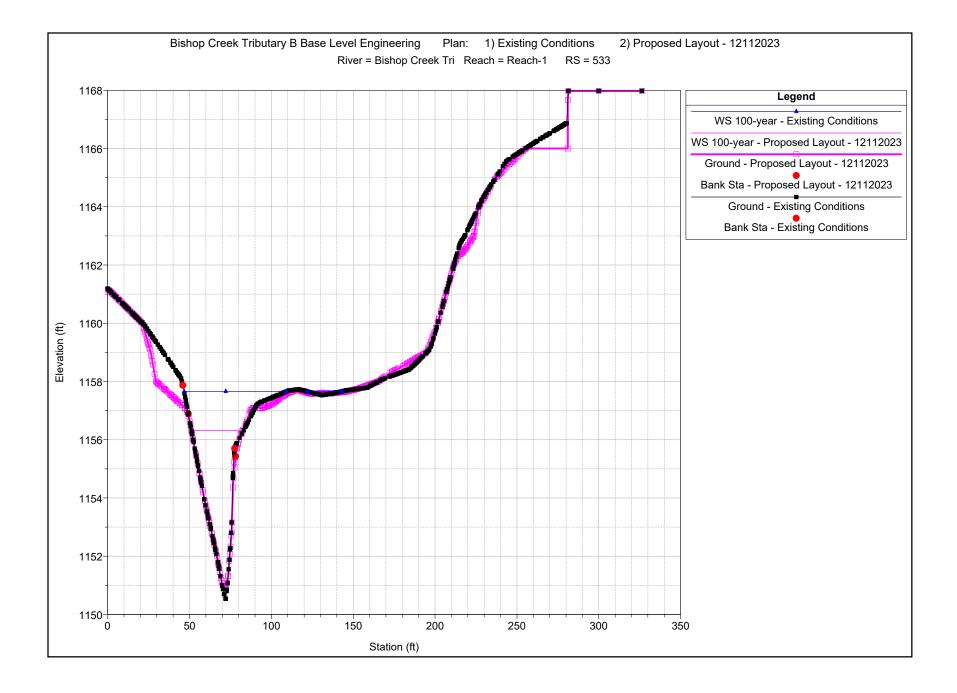


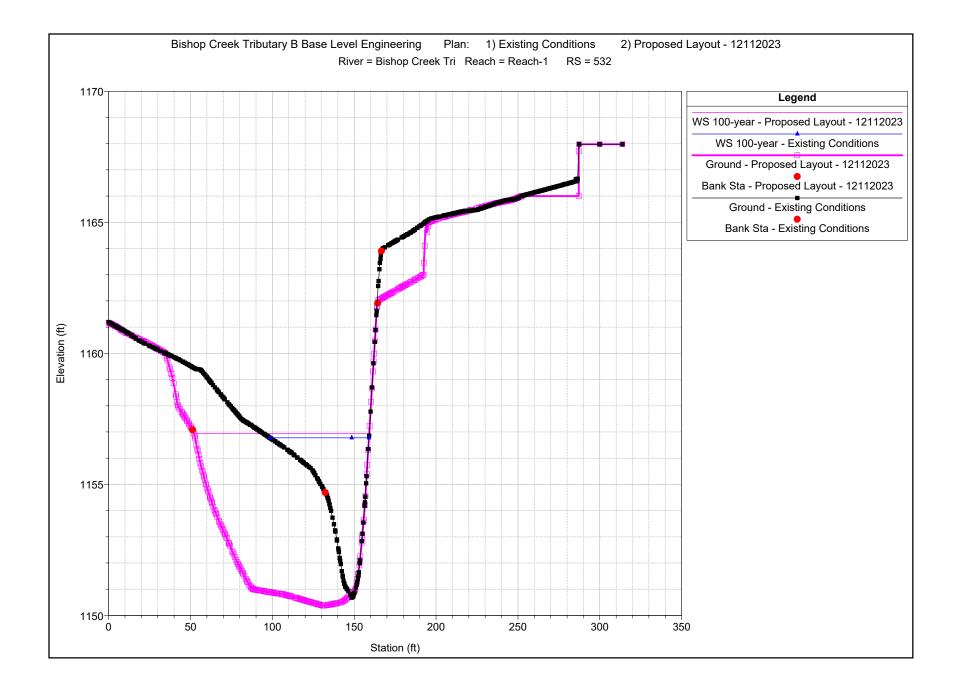


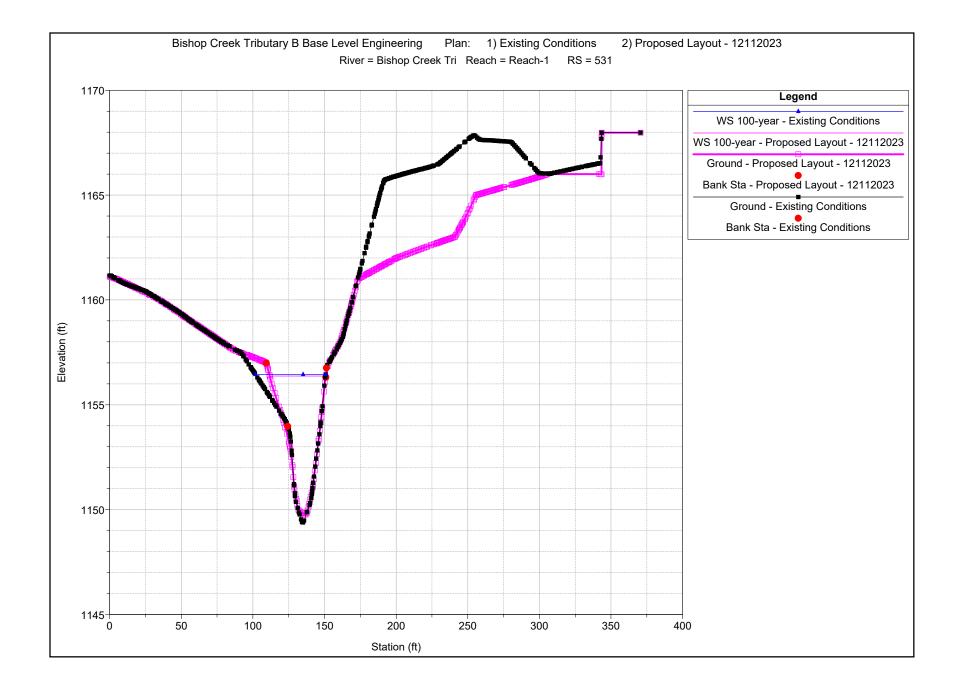


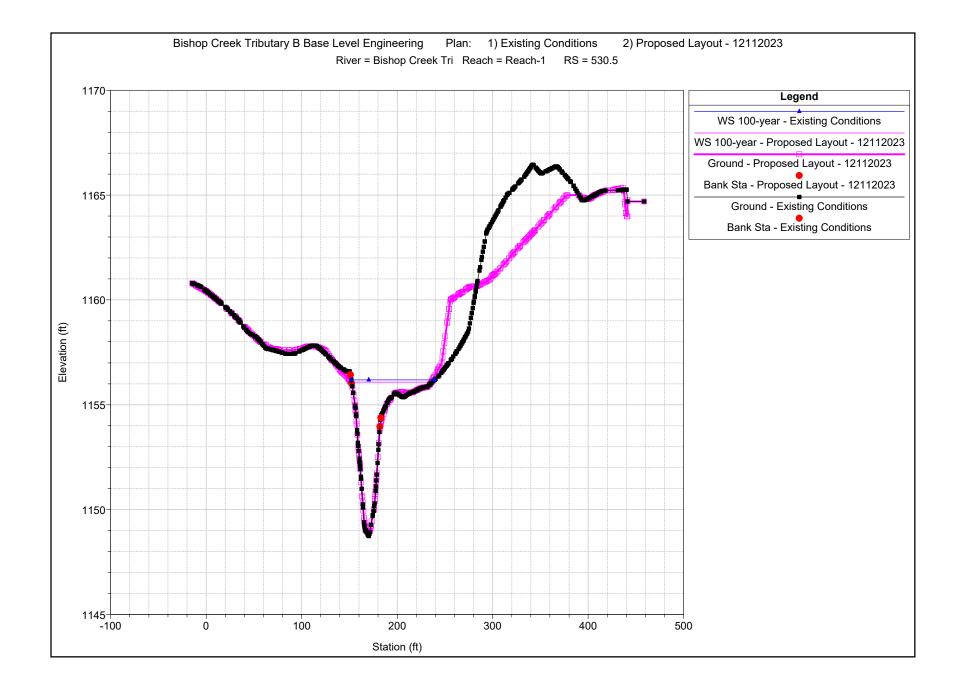


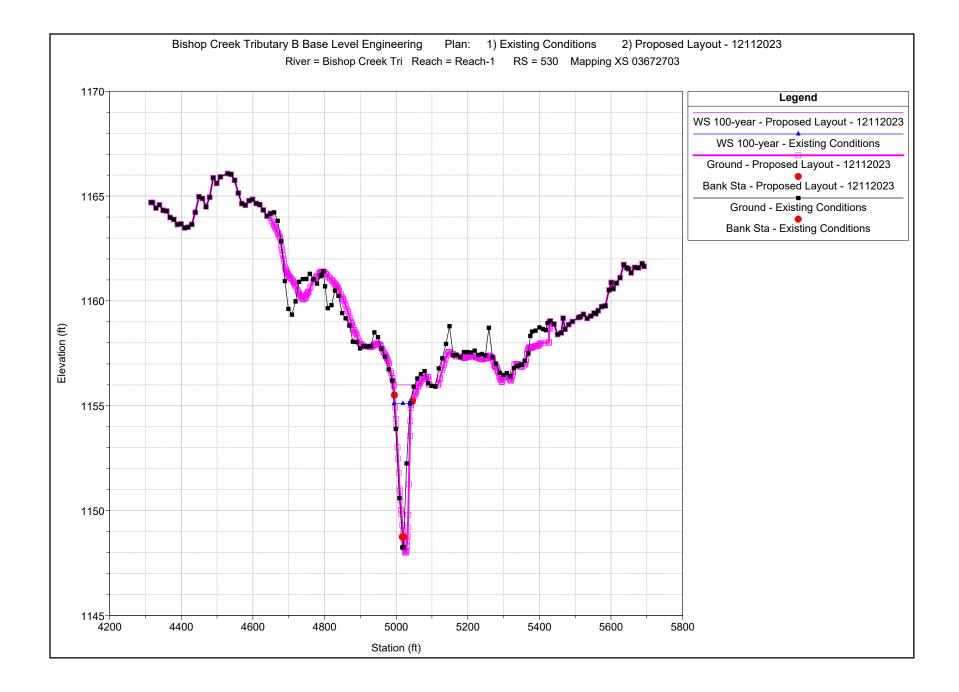


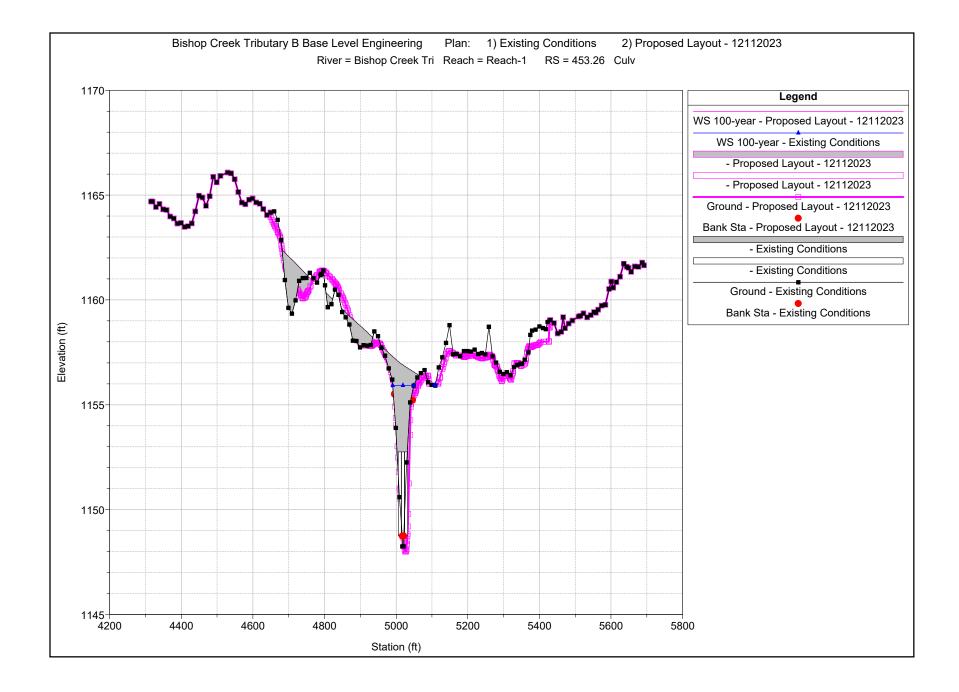


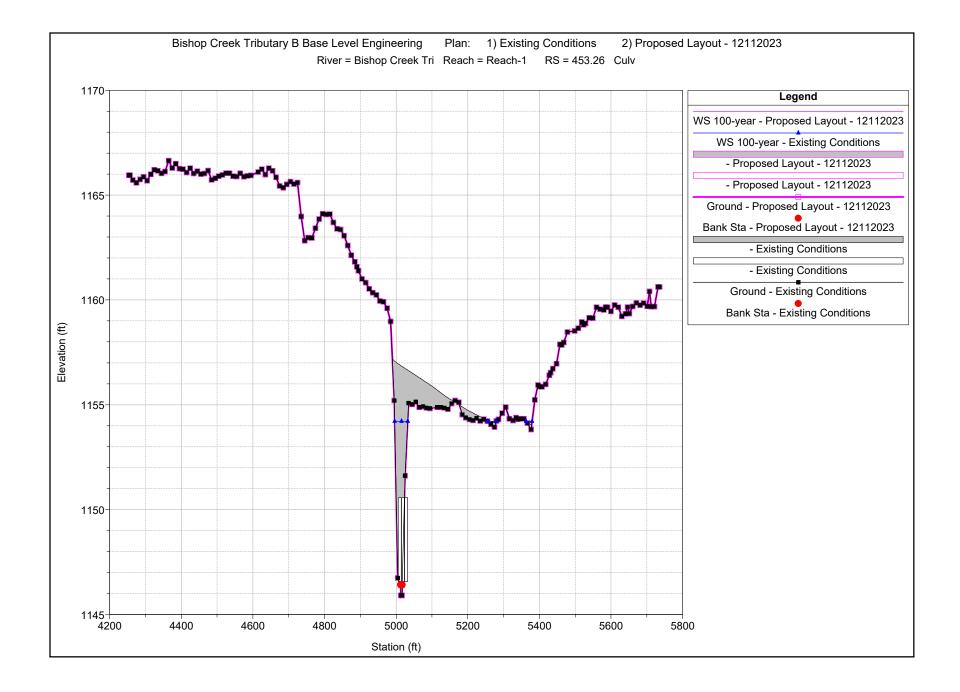


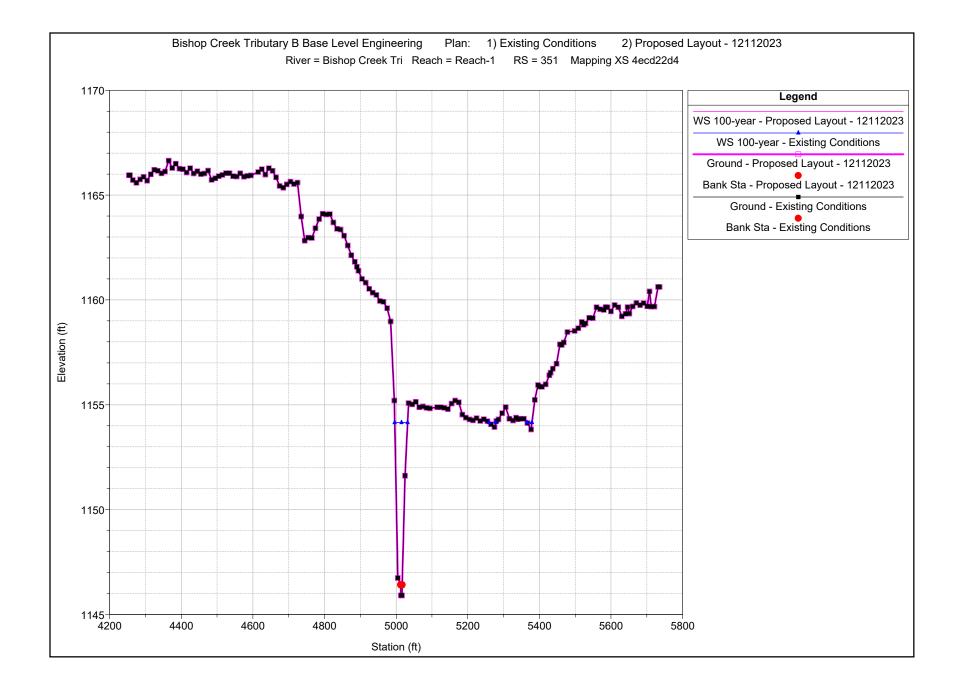


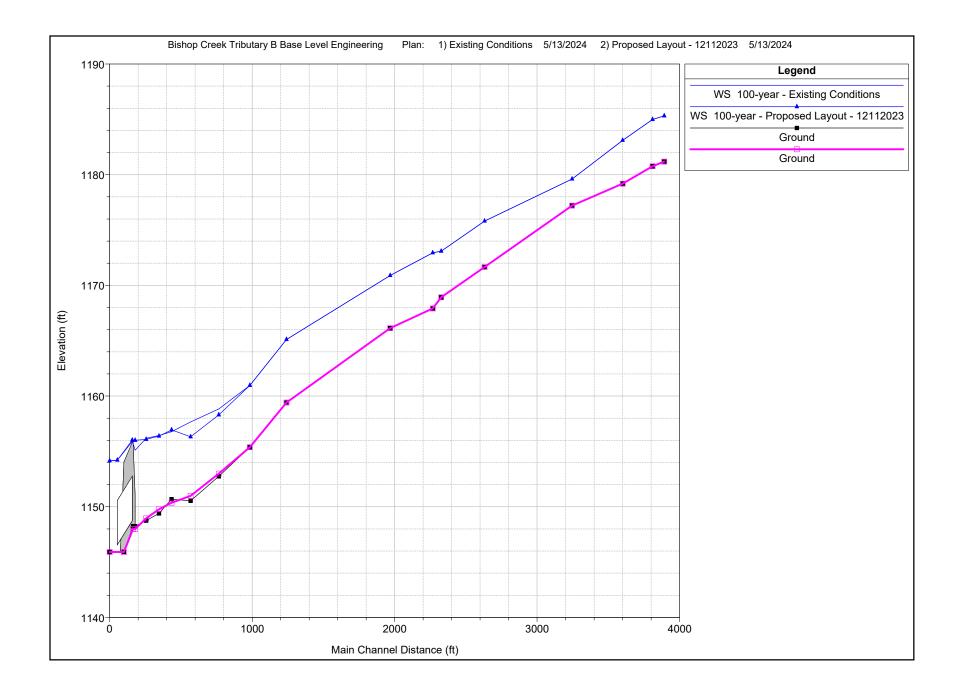












PROPERTY OWNER LIST

List of property owners located within 350 foot radius of outer boundary of the project location provided by Cleveland County

23222 LAWRENCE, TREVOR LANE & CATHERINE M 38877 VALENTAS, CHRISTOPHER & KILEY-REV TRT 38906 CONCORD MISSIONARY BAPTIST CHURCH 157793 MORRISON, ROY & VEVA RANCH CORP L57794 RUVALCABA, ALEJANDRINA & JOSE M 138699 SULLIVAN, MICHAEL W & PAULA KIM 138700 SULLIVAN, MICHAEL W & PAULA KIM 24151 HUNTINGTON INVESTMENT CORP 132346 BIG BROTHERS ENTERPRISES, LLC 149497 HAWN BROS CONSTRUCTION LLC 115742 ALAMEDA CHURCH OF CHRIST 115423 CENTRAL CHURCH OF CHRIST 24167 SIEBER, AMANDA ELIZABETH 24165 KUEHNERT, CHRISTOPHER S 24164 HOMER, DON A SR & JANIE 38903 DAVENPORT, CARLA SUE 24152 SEASON'S CAPITAL, LLC 24150 SEASON'S CAPITAL, LLC 38907 MUSSER, MARCIA ANN 23039 WALLS, CAROL LYNN 24166 MILLER, CAROLYN S 38902 WAGGONER, FRANK 38904 DEHAVEN, JAMES K 132347 LITTLEJOHN, DANNY 23026 HYMER-HALL 4, LLC 24156 620 EAST LINN, LLC 23040 CITY OF NORMAN 23041 CITY OF NORMAN 38905 HAILEY, EDNA E 144545 MILLER, J C LLC L57795 BAKER, ANNE L Owner Account #

523 S CARTER AVE, Unit 529 **503 MORNINGSIDE DR** 602 MORNINGSIDE DR 606 MORNINGSIDE DR 600 S FINDLAY AVE **501 S CARTER AVE 503 S FINDLAY AVE 501 S FINDLAY AVE** 620 ALAMEDA ST 515 ALAMEDA ST 515 ALAMEDA ST 701 E APACHE ST 630 E APACHE ST 810 ALAMEDA ST **306 ALAMEDA ST 308 ALAMEDA ST 304 ALAMEDA ST 801 ALAMEDA ST 501 ALAMEDA ST** 650 ALAMEDA ST 616 E APACHE ST 518 E APACHE ST 620 E LINN ST 621 E LINN ST 605 E LINN ST **503 E LINN ST** E APACHE ST L ASSESSOR E LINN ST Address

520 E APACHE ST

Market Value \$1,000 \$322,779 \$1,030,000 \$1,414,985 \$132,736 \$185,000 \$294,005 \$134,923 \$133,670 \$253,149 \$102,468 \$116,216 \$148,804 \$157,039 \$167,360 \$875,645 \$173,369 \$75,600 \$75,600 \$293,795 \$68,610 \$20,560 \$25,000 \$66,250 \$79,762 \$104,322 \$63,782 \$45,163 97,765 99,310

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https://property.spatialest.com/ok/cleveland/#/property/115423 https://property.spatialest.com/ok/cleveland/#/property/115742 https://property.spatialest.com/ok/cleveland/#/property/132346 https://property.spatialest.com/ok/cleveland/#/property/132347 https://property.spatialest.com/ok/cleveland/#/property/138700 https://property.spatialest.com/ok/cleveland/#/property/144545 https://property.spatialest.com/ok/cleveland/#/property/157793 https://property.spatialest.com/ok/cleveland/#/property/138699 https://property.spatialest.com/ok/cleveland/#/property/149497 https://property.spatialest.com/ok/cleveland/#/property/157794 https://property.spatialest.com/ok/cleveland/#/property/23026 https://property.spatialest.com/ok/cleveland/#/property/23039 https://property.spatialest.com/ok/cleveland/#/property/23040 https://property.spatialest.com/ok/cleveland/#/property/24150 https://property.spatialest.com/ok/cleveland/#/property/157795 https://property.spatialest.com/ok/cleveland/#/property/23041 https://property.spatialest.com/ok/cleveland/#/property/23222 https://property.spatialest.com/ok/cleveland/#/property/24151 https://property.spatialest.com/ok/cleveland/#/property/24152 https://property.spatialest.com/ok/cleveland/#/property/24156 https://property.spatialest.com/ok/cleveland/#/property/24164 https://property.spatialest.com/ok/cleveland/#/property/24165 https://property.spatialest.com/ok/cleveland/#/property/24166 https://property.spatialest.com/ok/cleveland/#/property/24167 https://property.spatialest.com/ok/cleveland/#/property/38905 https://property.spatialest.com/ok/cleveland/#/property/38906 https://property.spatialest.com/ok/cleveland/#/property/38877 https://property.spatialest.com/ok/cleveland/#/property/38902 https://property.spatialest.com/ok/cleveland/#/property/38903 https://property.spatialest.com/ok/cleveland/#/property/38904 https://property.spatialest.com/ok/cleveland/#/property/38907 Website



HYMER-HALL 4, LLC 1217 Lindsey Plaza DR, 101 Norman OK 73071-1905

CITY OF NORMAN 201 W Gray ST, # C Norman OK 73069-7108

HUNTINGTON INVESTMENT CORP 3113 MILLBURY RD NORMAN OK 73071

HOMER, DON A SR & JANIE 12701 Old Macgregor LN Fort Worth TX 76244-4357

SIEBER, AMANDA ELIZABETH 603 E LINN ST NORMAN OK 73071

DAVENPORT, CARLA SUE 3604 CHANTHAM COURT NORMAN OK 73072

CONCORD MISSIONARY BAPTIST CHURCH 1500 Stubbeman AVE Norman OK 73069-8724

ALAMEDA CHURCH OF CHRIST 801 Alameda ST Norman OK 73071-5227

SULLIVAN, MICHAEL W & PAULA KIM 800 Belmar BLVD Norman OK 73071-8001

HAWN BROS CONSTRUCTION LLC 3700 Sooner DR Oklahoma City OK 73165-6305 WALLS, CAROL LYNN 529 S Carter AVE Norman OK 73071-5403

LAWRENCE, TREVOR LANE & CATHERINE M 2801 Summit Hill CT Norman OK 73071-4102

SEASON'S CAPITAL, LLC 17934 Anthem Ridge RD Owasso OK 74055-8268

KUEHNERT, CHRISTOPHER S 17150 183rd ST Lexington OK 73051-5403

VALENTAS, CHRISTOPHER & KILEY-REV TRT 603 MORNINGSIDE DR NORMAN OK 73071

DEHAVEN, JAMES K 125 Lakeside DR Norman OK 73026-0722

MUSSER, MARCIA ANN 606 MORNINGSIDE DR NORMAN OK 73071

BIG BROTHERS ENTERPRISES, LLC 3651 48TH AVE SE NOBLE OK 73068

SULLIVAN, MICHAEL W & PAULA KIM 800 Belmar BLVD Norman OK 73071-8001

MORRISON, ROY & VEVA RANCH CORP 11714 CR 1690 ROFF OK 74865 CITY OF NORMAN 201 W Gray ST Norman OK 73069-7108

SEASON'S CAPITAL, LLC 17934 Anthem Ridge RD Owasso OK 74055-8268

620 EAST LINN, LLC 501 E Main ST Norman OK 73071-5822

MILLER, CAROLYN S 605 E Linn ST Norman OK 73071-5409

WAGGONER, FRANK 810 Alameda ST Norman OK 73071-5228

HAILEY, EDNA E 804 Alameda ST Norman OK 73071-5228

CENTRAL CHURCH OF CHRIST 801 Alameda ST Norman OK 73071-5227

LITTLEJOHN, DANNY 601 S Findlay AVE Norman OK 73071-5425

MILLER, J C LLC PO Box 925 Norman OK 73070-0925

RUVALCABA, ALEJANDRINA & JOSE M 618 E Apache ST Norman OK 73071-5418



CONSTRUCTION PLANS





ADA NOTES

CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIDEWALKS AND ACCESS RAMPS COMPLY WITH THE CITY OF NORMAN ADA STANDARD REQUIREMENTS. CONTRACTOR SHALL NOTIFY THE ENGINEER OR ENGINEER'S DESIGNEE FOR ANY DISCREPANCIES BETWEEN DESIGN INFORMATION AND THE CITY OF NORMAN STANDARD REQUIREMENTS PRIOR TO CONSTRUCTION.

EROSION CONTROL NOTES A COPY OF THE EROSION CONTROL SITE PLAN MUST BE ON SITE AT ALL TIMES AND MADE AVAILABLE TO THE INSPECTOR UPON REQUEST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ALL EROSION CONTROL DEVICES DAMAGED DUE TO CONSTRUCTION. INDICATE PROCEDURES FOR RE-VEGETATION OF DISTURBED AREAS FOR PERMANENT STABILIZATION.



NOTES

A STORM WATER DISCHARGE PERMIT IS REQUIRED BEFORE ANY LAND DISTURBING ACTIVITIES CAN BEGIN. THE CONTRACTOR IS RESPONSIBLE FOR THE PROMPT REPLACEMENT AND/OR REPAIR OF ALL TRAFFIC CONTROL DEVICES AND APPURTENANCES DAMAGED OR DISTURBED DUE TO CONSTRUCTION. CONTRACTOR WILL BE REQUIRED TO OBTAIN STORMWATER QUALITY PERMIT, SWPPP, AND FILE N.O.I.

NOTES

CONSTRUCTION ACTIVITIES THAT RESULT IN LAND DISTURBANCE OF EQUAL TO OR GREATER THAN ONE(1) ACRE, OR LESS THAN ONE(1) ACRE IF THEY ARE PART OF A LARGER COMMON PLAN OF DEVELOPMENT OF SALE THAT TOTALS AT LEAST ONE(1) ACRE MUST OBTAIN A PERMIT FROM ODEQ (FORM 605-002A) FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES. THIS MEANS THAT LAND DISTURBING OF ONE ACRE OR MORE MUST PERMIT WITH ODEQ AND THE CITY OF NORMAN, STORM WATER QUALITY.



The City of NORMAN, OK

LARRY HEIKKILA COUNCIL MEMBERS AUSTIN BALL LAUREN SCHUELER BREE MONTOYA HELEN GRANT MICHAEL NASH ELIZABETH FOREMAN STEPHEN HOLMAN MATTHEW PEACOCK

DARREL PYLE

MAYOR

Ward 1 Ward 2 Ward 3 Ward 4 Ward 5 Ward 6 Ward 7 Ward 8

CITY MANAGER

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| PLANNIN | IG DESIGN GROUP |
| | CAPE ARCHITECTURE AL DESIGN LAND PLANNING |
| PH | E., SUITE 510, TULSA, OK 7413 IONE: 918.628.1255 NNINGDESIGNGROUP.COM |

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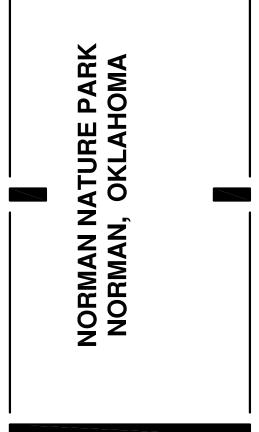
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| 2 | IN-1 | INDEX SHEET |
| 3 | C-Ø.1 | NOTES AND LEGEND |
| 4 | C-1.0 | OVERALL EXISTING SITE PLAN |
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| 26 | D-1 | CONSTRUCTION DETAILS |
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| 28 | D-3 | CONSTRUCTION DETAILS |
| 29 | D-4 | CONSTRUCTION DETAILS |
| 30 | S-1 | GENERAL NOTES |
| 31 | S-2 | FOUNDATIONS |
| | V L | |



PROJECT INFORMATION

PROJECT ADDRESS:

| 801 E Alameda St. Norman, OK 73069 | | | | |
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| PROJECT NO. | | | | |
| DATE | 11-02-23 | | | |
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OWNER:

CITY OF NORMAN



EROSION CONTROL NOTES:

- 1. THE CONTRACTOR SHALL MAINTAIN AND REPAIR ANY DAMAGE TO STORM WATER POLLUTION CONTROL DEVICES AS SOON AS PRACTICAL AFTER THE DISCOVERY OF THE DAMAGE.
- 2. THE CONTRACTOR SHALL USE WHATEVER MEASURES NECESSARY TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. THIS CAN BE ACCOMPLISHED BY TEMPORARY SEDIMENT PONDS, SILT FENCES, WIRE AND BURLAP FENCES, OR BARRIERS OF CEDAR TREES AND/OR BALES OF STRAW.
- 3. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL EROSION, CONSERVATION, AND SILTRATION **REQUIREMENTS**
- 4. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMP'S) AS REQUIRED. ADDITIONAL BMP'S SHALL BE IMPLEMENTED AS DICTATED BY FIELD CONDITIONS, AT NO ADDITIONAL COST TO OWNER, THROUGHOUT ALL PHASES OF CONSTRUCTION.
- 5. THE CONTRACTOR SHALL KEEP PAVEMENT AREAS FREE OF ANY MUD OR EXCAVATION WASTE FROM TRUCKS OR OTHER EQUIPMENT.
- 6. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL STRUCTURES UPON COMPLETION OF CONSTRUCTION AND THE ESTABLISHMENT OF SUFFICIENT PERMANENT STABILIZATION TO PREVENT EROSION.
- 7. THE CONTRACTOR SHALL INSTALL SOLID SLAB SOD, UNLESS OTHERWISE NOTED, TO OBTAIN STABILIZATION OF DISTURBED AREAS AS REQUIRED BY THE CONTRACT DOCUMENTS AND IN ACCORDANCE WITH THE CONSTRUCTION AND EROSION CONTROL SCHEDULES.
- 8. THE CONSTRUCTION AND PLACEMENT OF EROSION AND SEDIMENT CONTROL DEVICES SHALL BE TIMED IN CONJUNCTION WITH THE PROGRESS OF GENERAL CONSTRUCTION. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSPECTED AND MAINTAINED, AS PREVIOUSLY SET FORTH HEREIN, UNTIL ALL AREAS OF CONSTRUCTION HAVE BEEN STABILIZED.
- 9. THE CONTRACTOR SHALL BEGIN PERMANENT STABILIZATION OF COMPLETED AREAS OF CONSTRUCTION AS SOON AS IS PRACTICAL.
- 10. STABILIZED CONSTRUCTION ENTRANCES SHALL BE REQUIRED AT ALL POINTS WHERE CONSTRUCTION OR EMPLOYEE VEHICLES ENTER OR LEAVE THE CONSTRUCTION OR STAGING AREAS. THE STABILIZED CONSTRUCTION ENTRANCES ARE INTENDED TO PREVENT THE TRACKING OF MUD ONTO PUBLIC STREETS OUTSIDE THE CONTROLLED CONSTRUCTION AREAS.
- 11. THE STABILIZED CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED OF TWO INCH (2") STONE, OR RECLAIMED/RECYCLED CONCRETE OF SIMILAR SIZE, A MINIMUM OF SIX INCHES (6") THICK PLACED ON FILTER CLOTH.
- 12. THE STABILIZED CONSTRUCTION ENTRANCES SHALL BE A MINIMUM OF TWENTY FEET (20') IN WIDTH (BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCUR) AND AT LEAST FIFTY FEET (50') IN LENGTH.
- 13. ALL SURFACE WATER FLOWING OR DIVERTED TOWARD STABILIZED CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL THEN A MOUNTABLE BERM WITH FIVE TO ONE (5:1) SLOPES WILL BE PERMITTED.
- 14. THE WHEELS OF VEHICLES LEAVING THE CONSTRUCTION AREAS SHALL BE CLEANED OF MUD PRIOR TO LEAVING THE CONSTRUCTION OR STAGING AREAS. WHEN WHEEL WASHING IS REQUIRED IT SHALL BE PERFORMED IN AN AREA STABILIZED WITH STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- 15. ANY MUD, SEDIMENT, EXCAVATION WASTE, ETC., DROPPED, WASHED, SPILLED, OR TRACKED FROM THE CONSTRUCTION OR STAGING AREAS ONTO STREETS OUTSIDE OF THE CONSTRUCTION AREAS SHALL BE REMOVED IMMEDIATELY.
- 16. PERIODIC INSPECTION AND INSPECTION AFTER SIGNIFICANT RAINFALL SHALL BE MADE OF THE CONSTRUCTION ENTRANCES AS PREVIOUSLY SET FORTH HEREIN.
- 17. SILT FENCE SHALL BE USED TO CONTROL SEDIMENTATION FROM SURFACE RUNOFF AROUND THE PERIMETER OF THE WORK AREA AS NECESSARY.
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING THE SILT FENCE BARRIER AROUND THE LIMITS OF CONSTRUCTION AND AS SHOWN ON THE EROSION PLAN, DURING CONSTRUCTION, UNTIL ALL WORK IS COMPLETE AND VEGETATION IS REESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND SUBJECT TO FREQUENT INSPECTION OF ALL METHODS AND MATERIALS FOR EROSION PROTECTION, AND SHALL REPLACE ANY ITEM CONSIDERED DEFECTIVE BY THE ENGINEER IN A TIMELY MANNER.
- 19. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY WILL BE STOPPED FOR AT LEAST 14 DAYS SHALL BE TEMPORARILY SEEDED, SODDED, OR OTHERWISE STABILIZED UNTIL CONSTRUCTION RECOMMENCES.
- 20. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SODDED, UNLESS OTHERWISE NOTED. THESE AREAS SHALL BE SODDED NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING.
- 21. ONSITE AND OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BMP'S.
- 22. CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF TEMPORARY OR FINAL DRIVING SURFACES.

SITE DEMOLITION NOTES:

- SCOPE OF WORK SHALL INCLUDE REMOVAL OF ALL EXISTING OBJECTS REQUIRED FOR PROJECT CONSTRUCTION. REMOVED ITEMS THAT ARE NOT DENOTED FOR SALVAGE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF IN AN APPROVED MANNER. UNLESS OTHERWISE SPECIFIED, ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.
- UNLESS NOTED FOR REMOVAL, EXISTING TREES SHALL NOT BE DISTURBED. ALL TREE REMOVALS SHALL BE APPROVED BY THE OWNER PRIOR TO DEMOLITION.
- 3. EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATED BASED ON RECORD DRAWINGS OR HORIZONTAL LOCATIONS FLAGGED IN THE FIELD. ALL VERTICAL LOCATIONS ARE APPROXIMATE DEPTH ONLY. THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OF UTILITIES INFORMATION. FIELD VERIFY THE PRESENCE, TYPE, SIZE, LOCATION AND DEPTH OF ALL EXISTING UTILITIES IN THE PROJECT AREA PRIOR TO CONSTRUCTION. NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING AND GRUBBING THE SITE. UNSUITABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OFF-SITE.
- 5. THE REMOVAL OF ANY UTILITY LINE, SERVICE, APPURTENANCE, AND STRUCTURE SHALL BE COORDINATED WITH THE OWNER OF THE RESPECTIVE UTILITY.
- ALL PAVEMENT REMOVAL SHALL BE FULL DEPTH. PAVEMENT REMOVAL ADJACENT TO EXISTING PAVEMENT, TO REMAIN, SHALL BE SAW-CUT IN STRAIGHT LINES, FULL DEPTH.
- 7. SIDEWALK REMOVALS SHOULD OCCUR TOWARDS THE END OF DEMOLITION. NEW SIDEWALK SHALL BE INSTALLED AS SOON AS POSSIBLE AFTER THE REMOVAL OF OLD SIDEWALK IN ORDER TO MAINTAIN OPERATIONS WITH MINIMAL INTERRUPTION IN SERVICE.
- 8. ALL DEBRIS FROM REMOVAL OPERATIONS SHALL BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS SHALL NOT BE PERMITTED.
- 9. CONTRACTOR SHALL BACKFILL ANY VOIDS RESULTING FROM STRUCTURES, VEGETATION, AND OBJECTS REMOVED. FILL SHALL BE PLACED IN ACCORDANCE WITH GEOTECHNICAL REPORT RECOMMENDATIONS FOR THIS SITE (SEE SITE GRADING NOTES).
- 10. ALL EXISTING STRUCTURES, PAVEMENTS AND UTILITIES DESIGNATED TO REMAIN SHALL BE ADEQUATELY PROTECTED FROM DAMAGE THAT MIGHT OTHERWISE OCCUR DUE TO CONSTRUCTION OPERATIONS. CONTRACTOR SHALL BE LIABLE FOR DAMAGE TO ANY STRUCTURES, UTILITIES OR PAVEMENTS RESULTING FROM THE CONTRACTOR'S OPERATIONS. CONTRACTOR SHALL TAKE PHOTOS OF EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
- 11. DURING CONSTRUCTION, ALL FIRE HYDRANTS, VALVE BOXES, FIRE OR POLICE CALL BOXES AND OTHER EXISTING UTILITY CONTROLS SHALL BE LEFT INTACT, UNOBSTRUCTED AND ACCESSIBLE UNLESS NOTED ON THE PLAN.
- 12. THE CONTRACTOR MUST FILE A "NOTICE OF INTENT" WITH THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY AND THE AUTHORITY HAVING JURISDICTION, PRIOR TO COMMENCING EARTHWORK, CLEARING OR DEMOLITION OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR PREPARATION OF STORMWATER POLLUTION PREVENTION PLAN, IF REQUIRED.
- 13. EXISTING DRAINAGE STRUCTURES & PIPES, TO REMAIN, SHALL BE CLEANED OF SILT & DEBRIS AND INSPECTED FOR ANY STRUCTURAL DEFICIENCIES.
- 14. ABIDE BY ALL FEDERAL, STATE AND LOCAL CODES FOR THE DEMOLITION AND DISPOSAL OF ALL MATERIALS. CEC SHALL NOT BE LIABLE FOR ANY DEMOLITION PROCEDURES, SCHEDULING, OR DISPOSAL OF ANY MATERIALS.
- 15. THE SAFETY OF THE PROJECT SITE IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL CONSTRUCTION SIGNING, SAFETY FENCE, OR OTHER ITEMS NEEDED FOR PROTECTION OF THE GENERAL PUBLIC SHALL BE PROVIDED AT THE CONTRACTOR'S EXPENSE.

| | EXISTING |
|-------------------------|--|
| PROPERTY LINE | |
| EASEMENT | |
| RIGHT-OF-WAY | |
| ROADWAY CENTERLINE | <u> </u> |
| ROADWAY C&G | = $=$ $=$ $=$ $=$ $=$ |
| WATERLINE | W |
| WATERLINE FIRE | |
| WATERLINE SERVICE | |
| SAN. SWR. LINE | SS |
| SAN. SWR. FORCE MAIN | ——— FM — — |
| STORM SEWER LINE | ST |
| TELE. UNDERGROUND | —————————————————————————————————————— |
| FIBER OPTIC CABLE | —— FOC— —— |
| POWER UNDERGROUND | —————————————————————————————————————— |
| POWER OVERHEAD | —————————————————————————————————————— |
| GAS LINE | G |
| UTILITY LINE (BY ATLAS) | —————————————————————————————————————— |
| FENCE LINE | X |
| 5' CONTOURS | — — — XXXX — — — — |
| 1' CONTOURS | XXXX |
| TOP OF BANK | |
| TOE OF SLOPE | |
| FLOWLINE | · · · • · · · • |
| HP BREAK LINE | |

SITE CONSTRUCTION NOTES:

- ALL WORK PERFORMED AND MATERIALS SUPPLIED SHALL CONFORM TO THE AUTHORITY HAVING JURISDICTION'S STANDARD AND SPECIFICATIONS. IF AHJ STANDARDS AND SPECIFICATIONS DO NOT APPLY, ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE OKLAHOMA DEPARTMENT OF TRANSPORTATION 2019 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND SPECIAL PROVISIONS. PROJECT SPECIFICATIONS GOVERN OVER STANDARD SPECIFICATIONS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES AND GOVERNMENTAL AGENCIES WHO MIGHT HAVE UTILITY LINES ON OR ABOUT THE PREMISES, OR WHO MIGHT BE AFFECTED BY THE CONSTRUCTION. THE CONTRACTOR SHALL ALSO COORDINATE HIS ACTIVITIES WITH THE UTILITY COMPANIES TO ENSURE COMPLIANCE WITH THE PROJECT SCHEDULE. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO LOCATE AND PROTECT EXISTING UTILITY LINES, AND SHALL REPAIR ANY DAMAGES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN CONSTRUCTION STAKING. CONTRACTOR TO OBTAIN CAD DRAWING FILE FROM ENGINEER FOR SITE CONSTRUCTION STAKING.
- ALL CURB DIMENSIONS, RADIUS CALLOUTS AND ELEVATIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- 5. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- 6. ALL PAVEMENT STRIPING SHALL BE APPLIED IN TWO COATS, FOUR (4) INCHES WIDE, WHITE, AND ARE DIMENSIONED AS CENTER-TO-CENTER OF EACH STRIPE UNLESS SHOWN OTHERWISE ON PLANS.
- 7. ASSURE A SMOOTH FIT AND CONTINUOUS GRADE WITH EXISTING PAVEMENT. WHERE NEW CONCRETE PAVING IS TO ABUT EXISTING PAVEMENT, THE CONTRACTOR SHALL CONSTRUCT A THICKENED EDGE.
- 8. UNLESS OTHERWISE STATED IN THE GENERAL CONDITIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FAILED TESTS. THE RESULTS OF THE TESTS SHALL BE FORWARDED TO THE PROJECT ENGINEER FOR HIS REVIEW AND APPROVAL
- 9. UNLESS OTHERWISE DIRECTED THE CONTRACTOR SHALL PROVIDE A MEDIUM TO FINE BROOM FINISH ON ALL CONCRETE WALKS, RAMPS, STAIRS AND PAVED SURFACES (REFER TO ARCHITECTURAL PLANS & SPECS. FOR SIDEWALK FINISH AROUND BUILDING).
- 10. REFER TO ARCHITECTURAL PLANS AND SPECS. FOR CONSTRUCTION INFORMATION AND DETAILS FOR BUILDING ERECTION.
- 11. CONTRACTOR TO NOTIFY DESIGN ENGINEER IF ANY PLAN DISCREPANCIES ARISE IN THE FIELD DURING CONSTRUCTION.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY WORK ORDERS AND PERMITS FROM THE LOCAL AHJ AND/OR THE STATE OF OKLAHOMA, INCLUDING PROVISIONS OF BONDS AND INSURANCE AS REQUIRED.
- 13. THE PROJECT SHALL BE CONSTRUCTED WITHOUT CLOSING THE EXISTING PUBLIC OR PRIVATE ROADWAYS, DRIVEWAYS, OR SIDEWALKS TO LOCAL OR THROUGH TRAFFIC. IF ROAD CLOSURE IS REQUIRED IT SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION AND THE OWNER.
- 14. PRIOR TO FINAL ACCEPTANCE, ALL EXPOSED PAVED SURFACES (INCLUDING CURBS) SHALL BE CLEANED OF ALL DISCOLORATION SUCH AS ASPHALT STAIN, TIRE MARKS, AND OTHER DISFIGUREMENT.
- 15. CONTRACTOR IS RESPONSIBLE FOR ALL FIRE LANE STRIPING & 12. ENSURE POSITIVE DRAINAGE AWAY FROM ALL SIDES OF ALL SIGNAGE, AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- 16. SIDEWALK RAMPS AND ACCESSIBLE PARKING AREAS SHALL BE CONSTRUCTED TO MEET THE ADA ACCESSIBILITY GUIDELINES. GRADES IN ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2% IN ANY DIRECTION. CROSS SLOPE ON SIDEWALK SHALL NOT EXCEED 2%. LONGITUDINAL SLOPE ON SIDEWALK SHALL NOT EXCEED 5% EXCEPT AS SPECIFICALLY SHOWN IN PLANS.
- 17. CONDUCT AS-BUILT MEASUREMENTS AND SUBMIT DOCUMENTATION TO THE OWNER PRIOR TO FINAL ACCEPTANCE.

SITE GRADING NOTES:

- 1. PROPOSED CONTOURS DEPICT FINAL PAVING ELEVATION ADJUST SUBGRADE AS NECESSARY FOR PAVEMENT THICKNESS.
- 2. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL ENGINEERING REPORT PROVIDED BY HINDERLITER GEOTECHNICAL ENGINEERING, INC DATED JULY 13, 2023 FOR SITE AND SUBSURFACE CONDITIONS, SITE AND BUILDING PAD PREPARATION, AND PAVEMENT RECOMMENDATIONS AND CONSTRUCTION SPECIFICATIONS. ANY INCONSISTENCIES BETWEEN THE GEOTECHNICAL ENGINEERING REPORT AND THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER FOR RESOLUTION.
- AFTER PERFORMING ANY REQUIRED CUTS AND PRIOR TO PLACEMENT OF FILL, THE SITE SHALL BE PROOFROLLED WITH A 20 TO 25 TON PNEUMATIC-TIRED VEHICLE TO LOCATE ANY ZONES THAT ARE SOFT OR UNSTABLE. WHERE RUTTING OR PUMPING IS OBSERVED DURING PROOFROLLING, THE UNSTABLE SOILS SHALL BE OVER-EXCAVATED AND REPLACED WITH FILL IF THE SOILS CAN NOT BE MOISTURE CONDITIONED AND EFFECTIVELY COMPACTED IN PLACE.
- 4. THE BUILDING AREA SUBGRADE SOILS AND ANY AREA THAT WILL RECEIVE FILL SHALL BE SCARIFIED AND COMPACTED TO A DEPTH OF 8 INCHES. THE MOISTURE CONTENT OF THE SCARIFIED SOIL SHALL BE ADJUSTED TO WITHIN 2% OF ITS OPTIMUM VALUE, AS DETERMINED BY THE STANDARD PROCTOR TEST METHOD (ASTM D-698), PRIOR TO BEING COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DRY DENSITY.
- 5. STRUCTURAL FILL SHALL BE FREE OF ORGANIC MATTER AND DEBRIS, AND BE LOW VOLUME CHANGE SOIL CONSISTING OF COHESIVE MATERIALS HAVING A LIQUID LIMIT LESS THAN 40 AND A PLASTICITY INDEX BETWEEN 5 AND 18. FILL SHALL BE PLACED IN LIFTS NOT EXCEEDING 6 INCHES IN LOOSE THICKNESS, AND COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DRY DENSITY AND AT OR ABOVE THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE STANDARD PROCTOR TEST METHOD (ASTM D-698).
- 6. UNLESS OTHERWISE STATED, THE CONTRACTOR SHALL COORDINATE AND ORDER ALL TESTING IN CONJUNCTION WITH EARTHWORK OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FAILED TESTS. THE RESULTS OF THE TESTS SHALL BE FORWARDED TO ENGINEER FOR REVIEW AND APPROVAL. THE SOILS LABORATORY SHALL DETERMINE THE SUITABILITY OF EXISTING SITE MATERIAL PRIOR TO **BEGINNING FILL OPERATIONS.**
- 7. CONTRACTOR SHALL TAKE ALL PREVENTIVE MEASURES NECESSARY TO ELIMINATE, REDUCE, OR ALLEVIATE ANY DUST NUISANCE IN THE WORK AREA.
- 8. EXISTING CONTOURS AND SPOT ELEVATIONS ARE CORRECT PER SURVEY DATED AUGUST 25, 2023. CONTRACTOR SHALL VERIFY ELEVATIONS PRIOR TO COMMENCING CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- CONTRACTOR SHALL ADJUST THE GRADES OF ALL EXISTING VALVE BOXES AND COVERS, FIRE HYDRANTS, MANHOLES, METER BOXES, TRAFFIC BOXES, AND OTHER UTILITIES TO MEET THE SPECIFICATIONS OF EACH UTILITY COMPANY.
- 10. ALL TOPSOIL SHALL BE REMOVED AND STOCKPILED IN AN AREA DESIGNATED BY OWNER. UPON COMPLETION OF CONSTRUCTION, A MINIMUM OF 6 INCHES OF TOPSOIL SHALL BE SPREAD OVER AREAS DISTURBED DURING CONSTRUCTION. CONTRACTOR SHALL SOD THESE AREAS, UNLESS OTHERWISE NOTED. SODDED AREAS SHALL BE MAINTAINED BY PROVIDING THE NECESSARY FERTILIZER AND WATER UNTIL THE VEGETATION AND ROOT GROWTH IS SUBSTANTIALLY ESTABLISHED.
- 11. CUT OR FILL SLOPES SHALL BE 4:1 MAX UNLESS NOTED OTHERWISE.
- BUILDINGS (EXISTING & PROPOSED) THROUGHOUT ALL PHASES OF CONSTRUCTION

SITE UTILITY NOTES:

- THOSE UTILITIES WHICH ARE PUBLIC SHALL BE INSTALLED BY ORDERS, AND PERMITS REQUIRED.
- EXCAVATION . CONTRACTOR SHALL NOTIFY ALL UTILITY AFFECTED BY THE CONSTRUCTION.
- THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFILLING AND COMPACTING ALL TRENCHES AND EXCAVATION AREAS ASSOCIATED WITH UTILITY SITE (SEE SITE GRADING NOTES).
- MARKED UNTIL SUCH TIME AS CONNECTIONS ARE MADE UP TO A MINIMUM OF 1' ABOVE FINISHED GRADE. CONTRACTOR SHALL VERIFY ALL UTILITY STUBS TO THE BUILDING(S) WITH THE M.E.P. PLANS.
- ALL VALVES, MANHOLE LIDS, AND SEWER CLEAN-OUTS LOCATED IN PAVED AREAS, SHALL BE RATED FOR H-20 TRAFFIC LOADING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING APPROVAL.
- 7. CONTRACTOR SHALL RAISE OR LOWER ALL EXISTING VALVE
- 1% SLOPE W/ CLEANOUTS SET AT 100' O.C. AND BE PLUMBING CODES.
- 9. CONTRACTOR SHALL PROVIDE ELECTRICAL CONDUIT AS NEEDED. REFER TO ARCHITECTURAL PLANS.
- DEVICES AS NECESSARY AROUND THE PERIMETER OF
- DURING THE PERFORMANCE UNDER THIS CONTRACT. CONTRACTOR IS ADVISED THAT FEDERAL REGULATIONS 29 CONTRACTOR SHALL FULLY COMPLY WITH THE U.S. EXCAVATIONS, TRENCHING, AND SHORING AND SHALL OPERATIONS.
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY UTILITIES REQUIRED FOR CONSTRUCTION.
- 14. CONTRACTOR SHALL KEEP OPEN TRENCH DRAINED AT ALL TIMES
- ALL EXISTING AND PROPOSED UTILITIES ON SITE, PRIOR TO FINAL ACCEPTANCE.

| | LEG | END | | | | | |
|-----------------|----------------------------|------------|------------|-----------------------------|----------------------|----------|-----------------------------------|
| PROPOSED | _ | EXISTING | PROPOSED | E | EXISTING | PROPOSED | - |
| | WATER SPIGOT | \otimes | \otimes | POWER POLE | Ø | ø | BOTTOM OF DIKE |
| | WATER METER | | ٢ | GUY WIRE - |) | > | BOTTOM OF WALL EXISTING FLOWLI |
| | WATER VALVE | Q | Ō | ELECTRIC SERVICE CONNECTION | SVC | | EXISTING GROUN FINISH GROUND |
| W FIR | SPRINKLER CONTROL VALVE | \otimes | \otimes | ELECTRIC PEDESTAL | E | | FLOWLINE GUTTER LINE |
| SVC SS | SPRINKLER HEAD | (f | \ ∲ | LIGHT POLE | -À- | Å | HIGH POINT TOP OF CURB |
| FM ST | FIRE HYDRANT | | | PULL BOX | PB | PB | TOP OF DIKE |
| TUG FOC | FIRE DEPARTMENT CONNECTION | N 🔶 | t | TELEPHONE PEDESTAL | Τ | | TOP OF GRATE TOP OF PAVING |
| ——— PUG ——— | GAS METER | | | FIBER OPTIC PEDESTAL | FO | | TOP OF SIDEWALI TOP OF WALL |
| OHE G | GAS VALVE | Q | Ō | BENCHMARK | $\overline{\bullet}$ | | |
| OO | UTILITY CLEANOUT | \otimes | \otimes | CONTROL POINT | ĊP | | |
| <u>XXXX</u> | UTILITY MANHOLE | \bigcirc | \bigcirc | WHEELSTOP | | | |
| | UTILITY MARKER | | | ADA SIGN ADA SYMBOL | &_ | | |
| · • · · • · · · | DOWNSPOUT/ROOF DRAIN | ۲ | | BOLLARD | ° | | |
| | | | | | | | |

I EGEND

A PROPERLY LICENSED CONTRACTOR APPROVED BY THE AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPROVED PLANS, WORK

CONTRACTOR SHALL CONTACT OKIE (1-800-522-6543) FOR LOCATING EXISTING UTILITIES PRIOR TO ANY REMOVALS OR COMPANIES AND GOVERNMENTAL AGENCIES WHO MAY HAVE UTILITY LINES ON OR ABOUT THE PREMISES OR WHO MAY BE

CONSTRUCTION. FILL SHALL BE PLACED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT COMPLETED FOR THIS

ALL UTILITIES SHALL TERMINATE FIVE (5) FEET OUTSIDE THE BUILDING UNLESS OTHERWISE NOTED. THE END OF ALL SERVICE LINES SHALL BE TIGHTLY CAPPED OR PLUGGED AND INSIDE THE BUILDING. ALL SERVICE LINES SHALL BE STUBBED

ELEVATIONS AND ADJUSTING ALL COVERS AND LIDS IN PAVED AREAS TO FINISHED GRADE. ALL FIELD ADJUSTMENTS SHALL BE NOTED AND BROUGHT TO ENGINEER'S ATTENTION FOR

BOXES AND COVERS, FIRE HYDRANTS, MANHOLES, METER BOXES, TRAFFIC BOXES, AND OTHER UTILITIES TO MEET THE SPECIFICATIONS OF EACH UTILITY COMPANY RESPECTIVELY.

ALL SANITARY SEWER SERVICE LINES SHALL HAVE A MINIMUM CONSTRUCTED TO THE AUTHORITY HAVING JURISDICTION'S

10. UNLESS OTHERWISE STATED IN THE GENERAL CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FAILED TESTS. THE RESULTS OF THE TESTS SHALL BE FORWARDED TO THE PROJECT ENGINEER FOR REVIEW AND ACCEPTANCE.

11. CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTING AND MAINTAINING BARRICADES AND OTHER TRAFFIC WARNING CONSTRUCTION AND ADJACENT TO ANY OPEN TRENCHES.

12. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH STATE LAWS AND FEDERAL REGULATIONS RELATING TO TRENCH SAFETY, INCLUDING THOSE WHICH MAY BE ENACTED

C.F.R. 1926.650-1926.652 HAVE BEEN, IN THEIR MOST RECENT VERSION AS AMENDED, IN EFFECT SINCE JANUARY 2, 1990.

DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS PERTAINING TO

PROVIDE AND FAMILIARIZE ITS EMPLOYEES INVOLVED IN

EXCAVATION AND TRENCHING WITH THE PROVISIONS IN OSHA PAMPHLET NUMBER 2226, EXCAVATING AND TRENCHING

15. CONTRACTOR TO PROVIDE AS-BUILT FIELD DRAWINGS FOR

BD BW EXIST. FL VLINE JND EG FG FL GUT HP TC TD ΤG TP TS ALK ΤW

SITE DETAIL NOTES:

DETAILS SHOWN ARE DESIGNED BASED ON INFORMATION FROM THE GEOTECHNICAL REPORT COMPLETED FOR THIS SITE (SEE SITE GRADING NOTES).

2. DETAILS SHOWN SHALL SUPERCEDE SPECIFICATIONS UNLESS OTHERWISE NOTED BY ENGINEER.

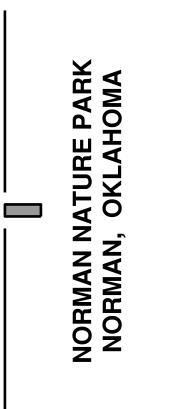
NO REVISIONS SHALL BE MADE TO DETAILS UNLESS 3 AUTHORIZED BY ENGINEER. CONTRACTOR SHALL SUBMIT ANY CHANGES TO PROJECT ENGINEER FOR APPROVAL.



5314 S. YALE AVE., SUITE 710, TULSA, OK 74135 918.628.1255 918.628.1256 FAX WWW.PLANNINGDESIGNGROUP.COM

PROJECT INFORMATION PROJECT ADDRESS:

801 E Alameda St. Norman, OK 73069 PROJECT NO. DATE 05-10-24 DRAWN BY CHECKED BY ACB



| ISS | ISSUE/ REVISIONS | | | | | |
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OWNER:

CITY OF NORMAN

201 W Gray St, Norman, OK 73069

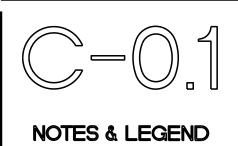


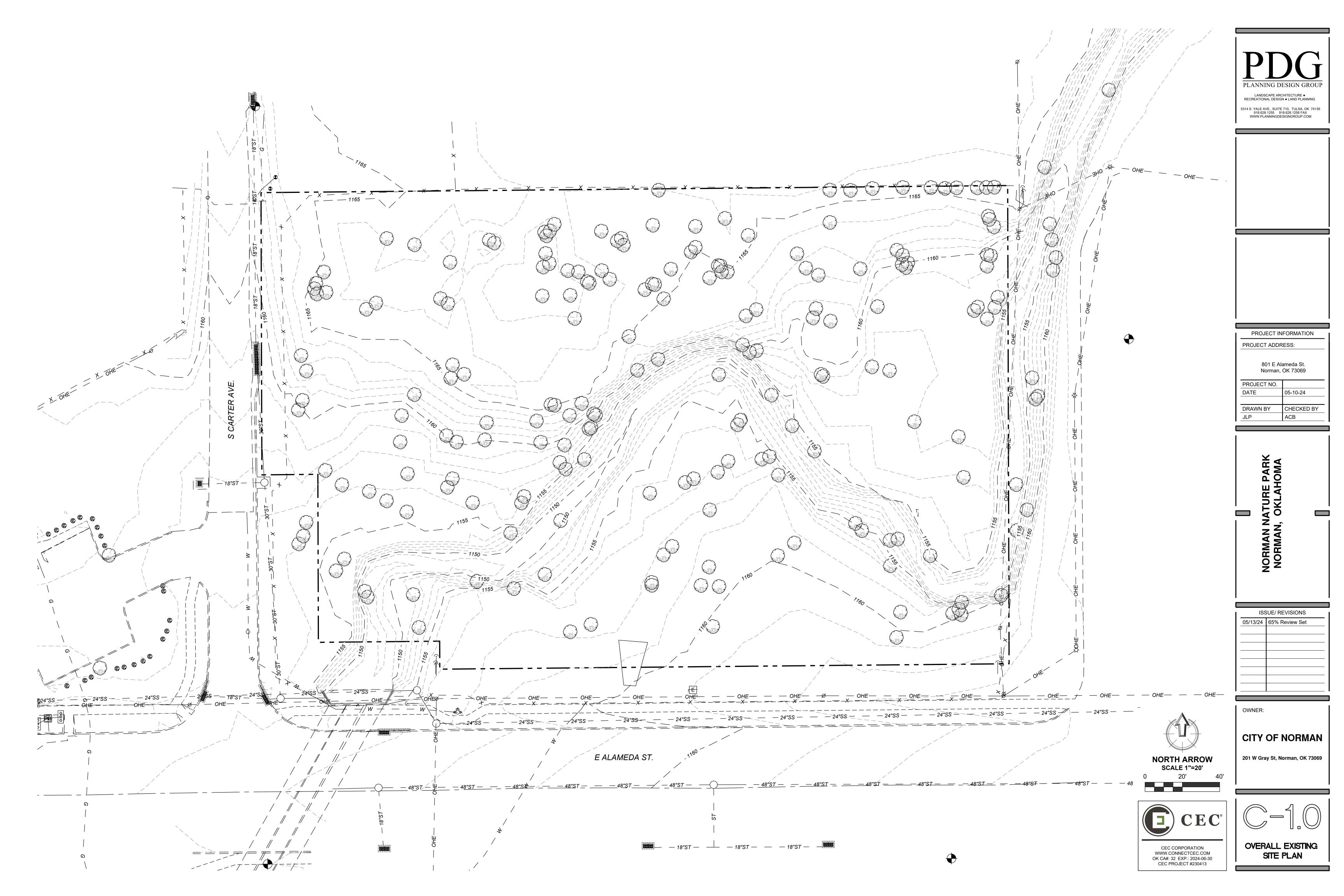
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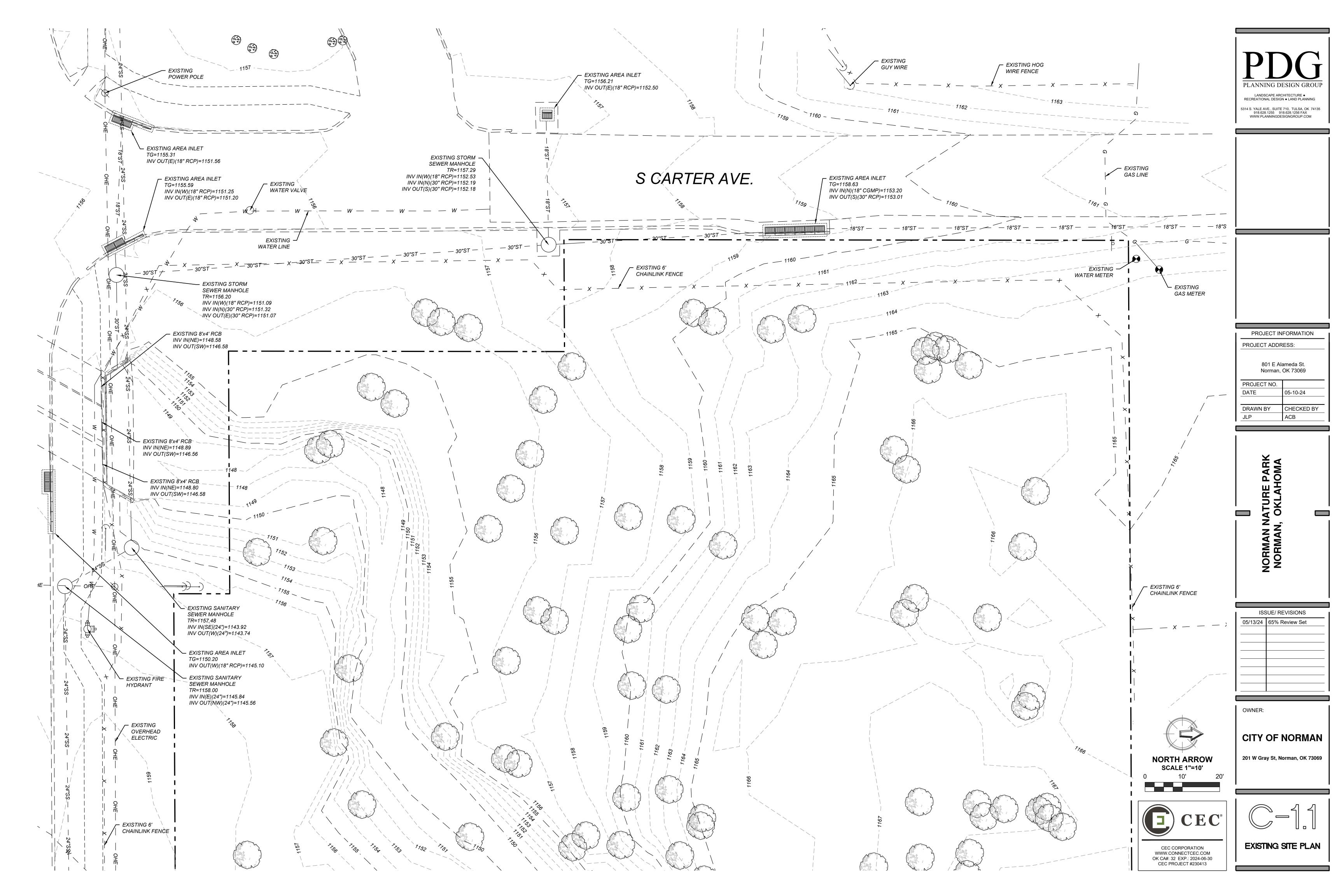
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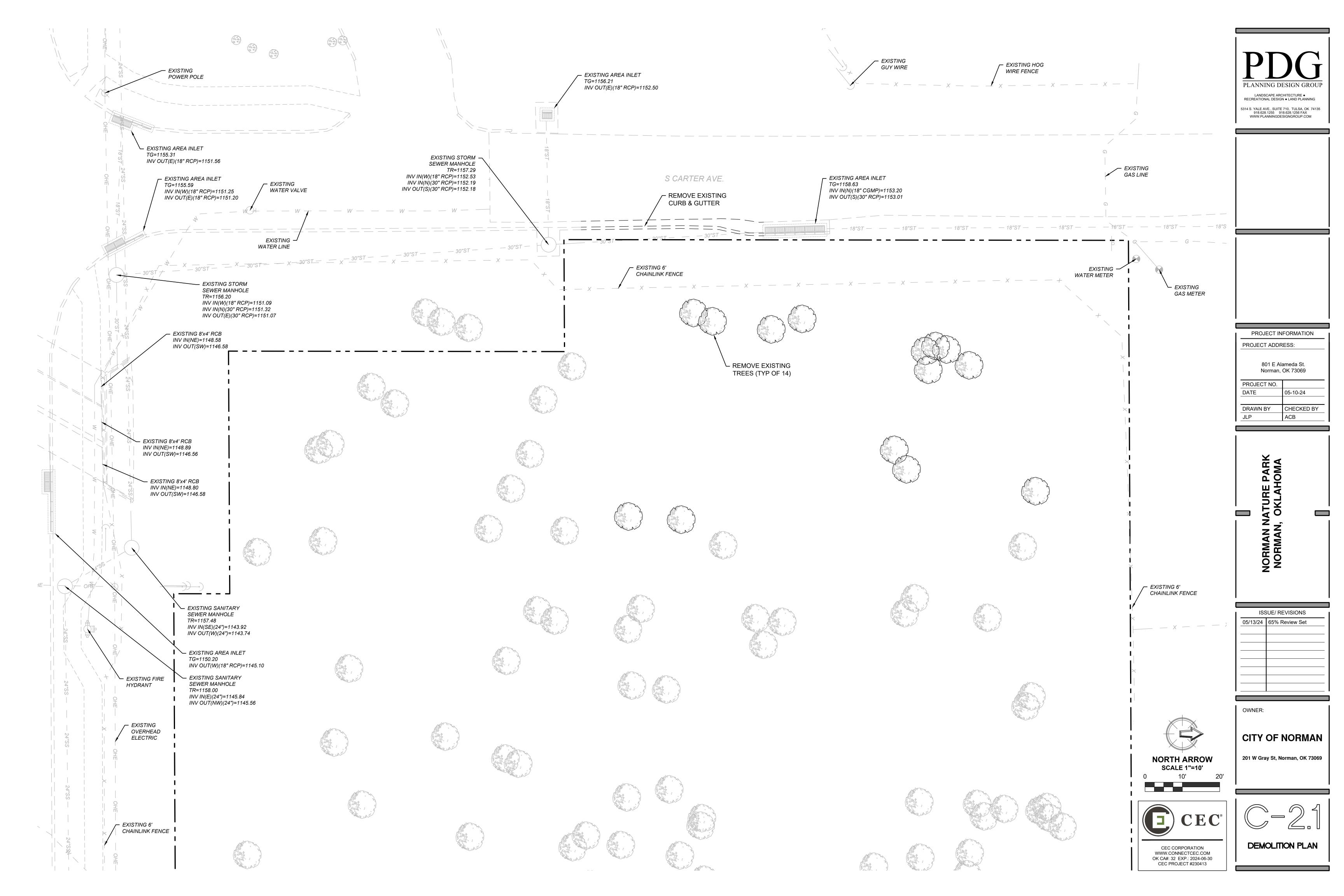
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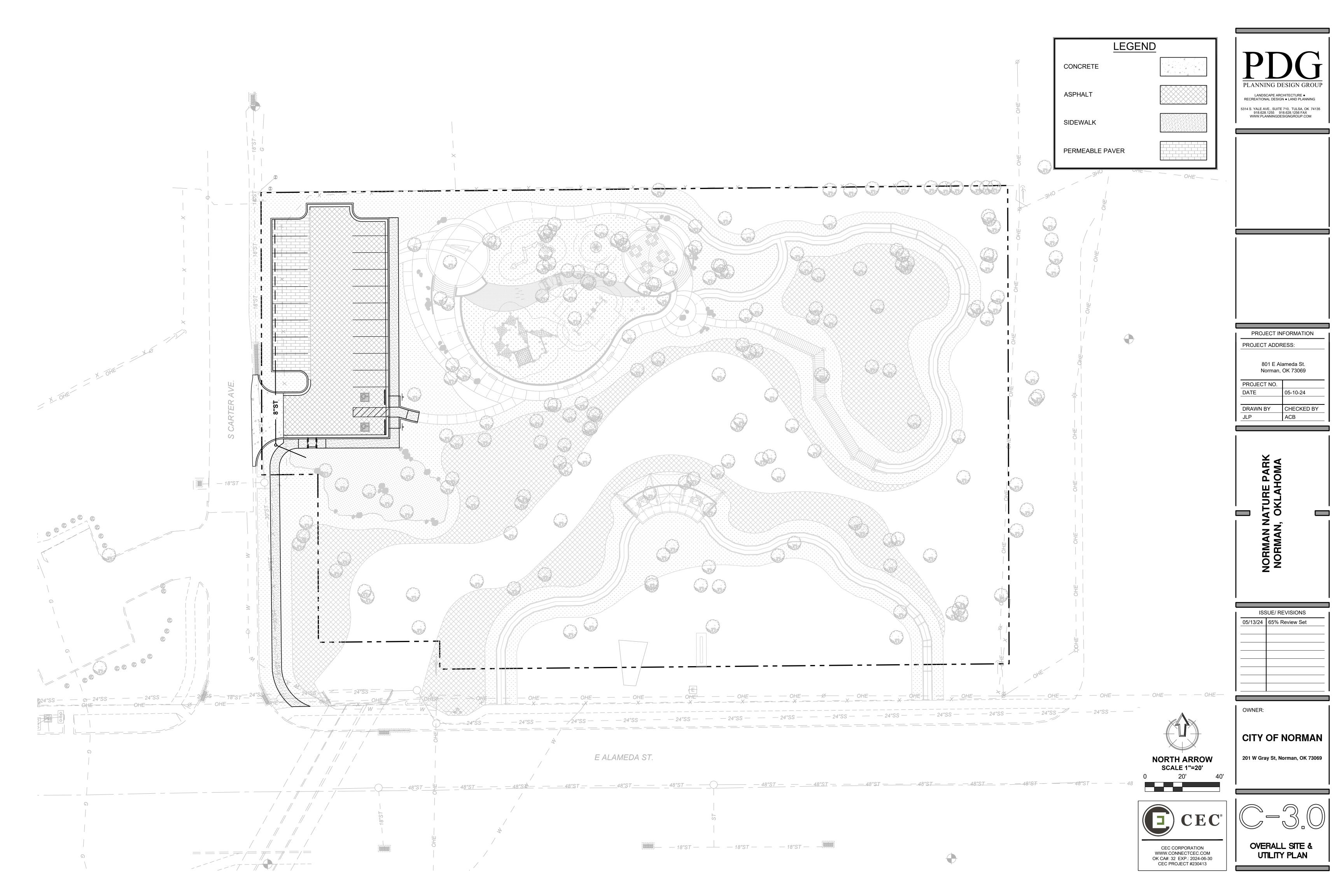


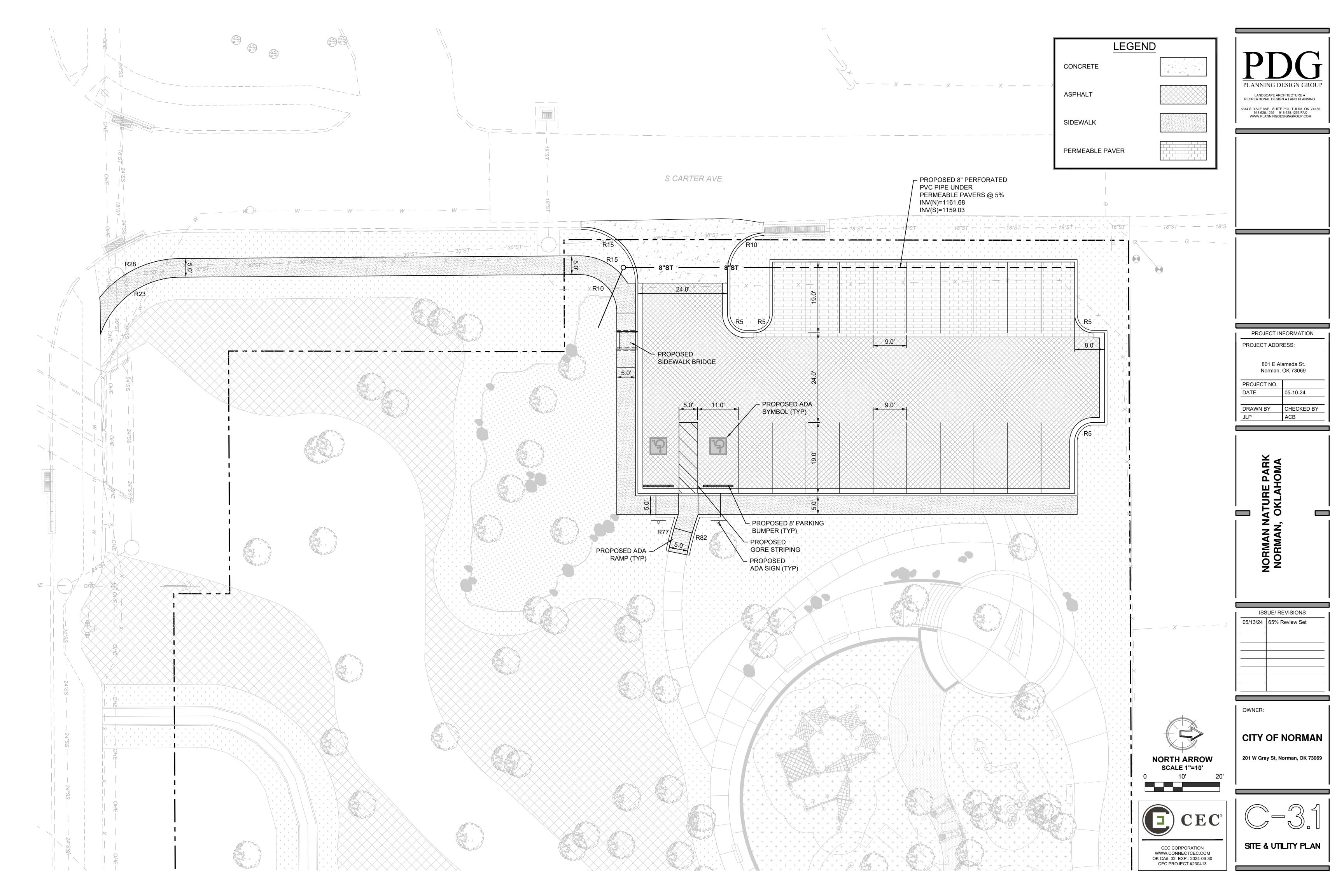


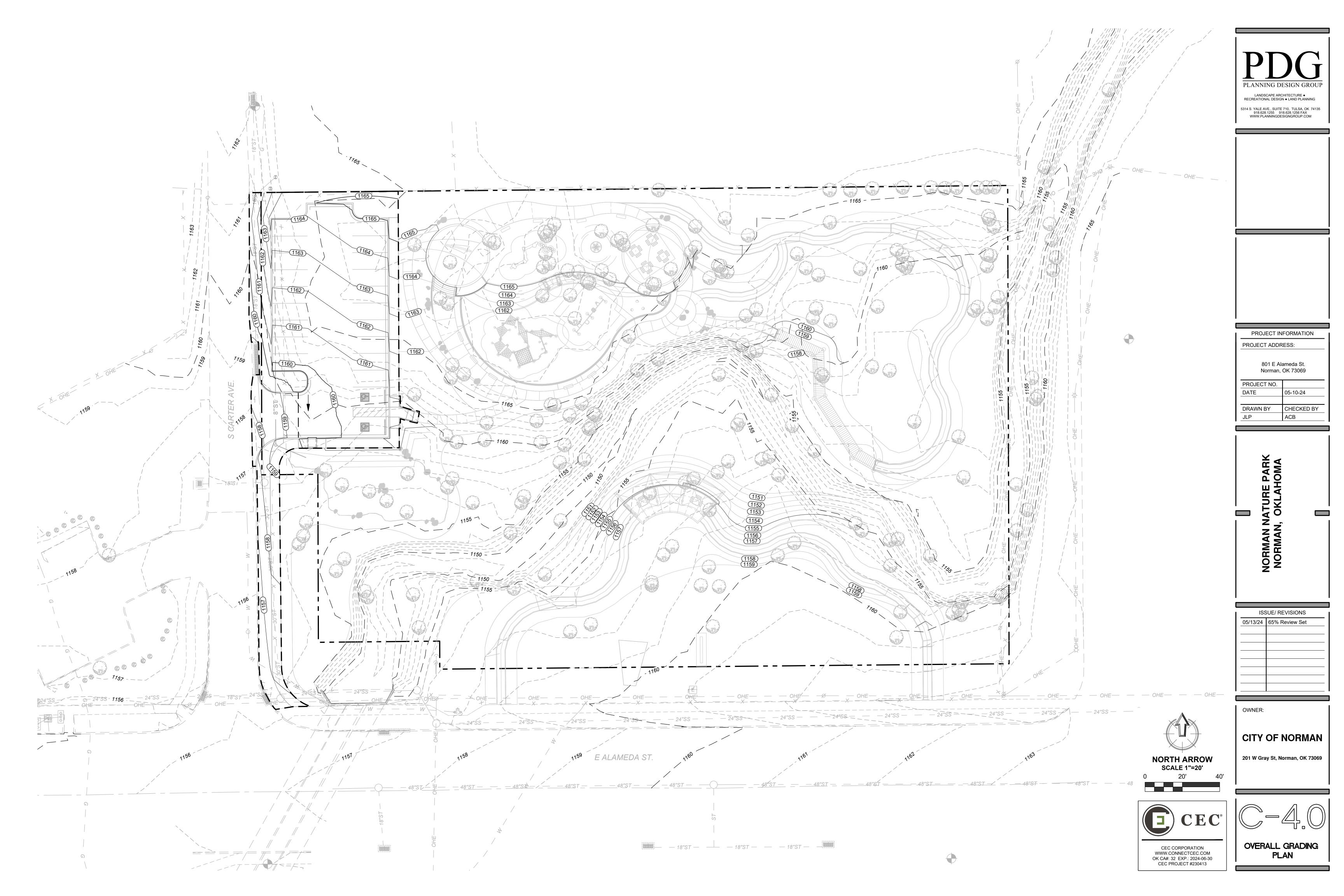


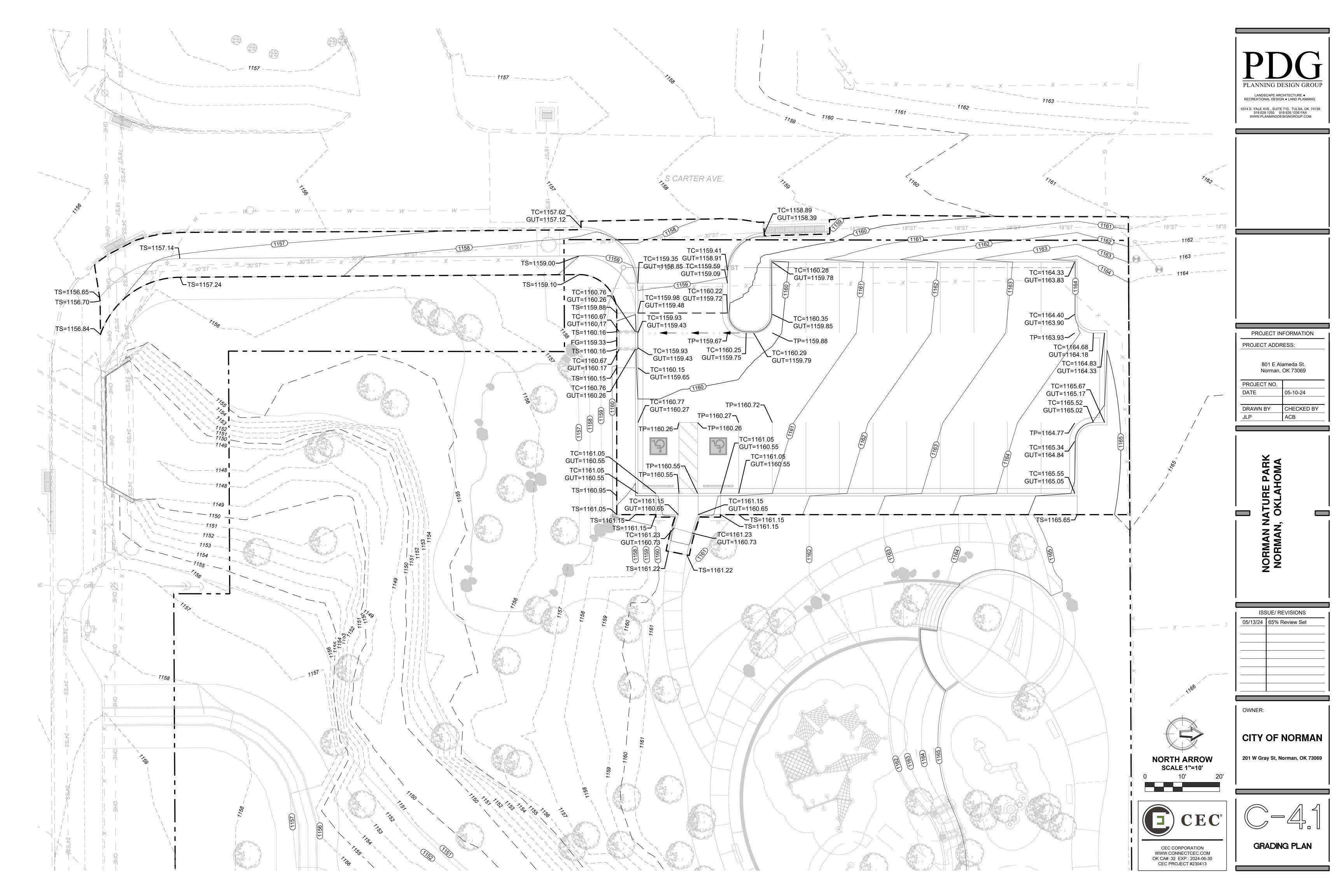


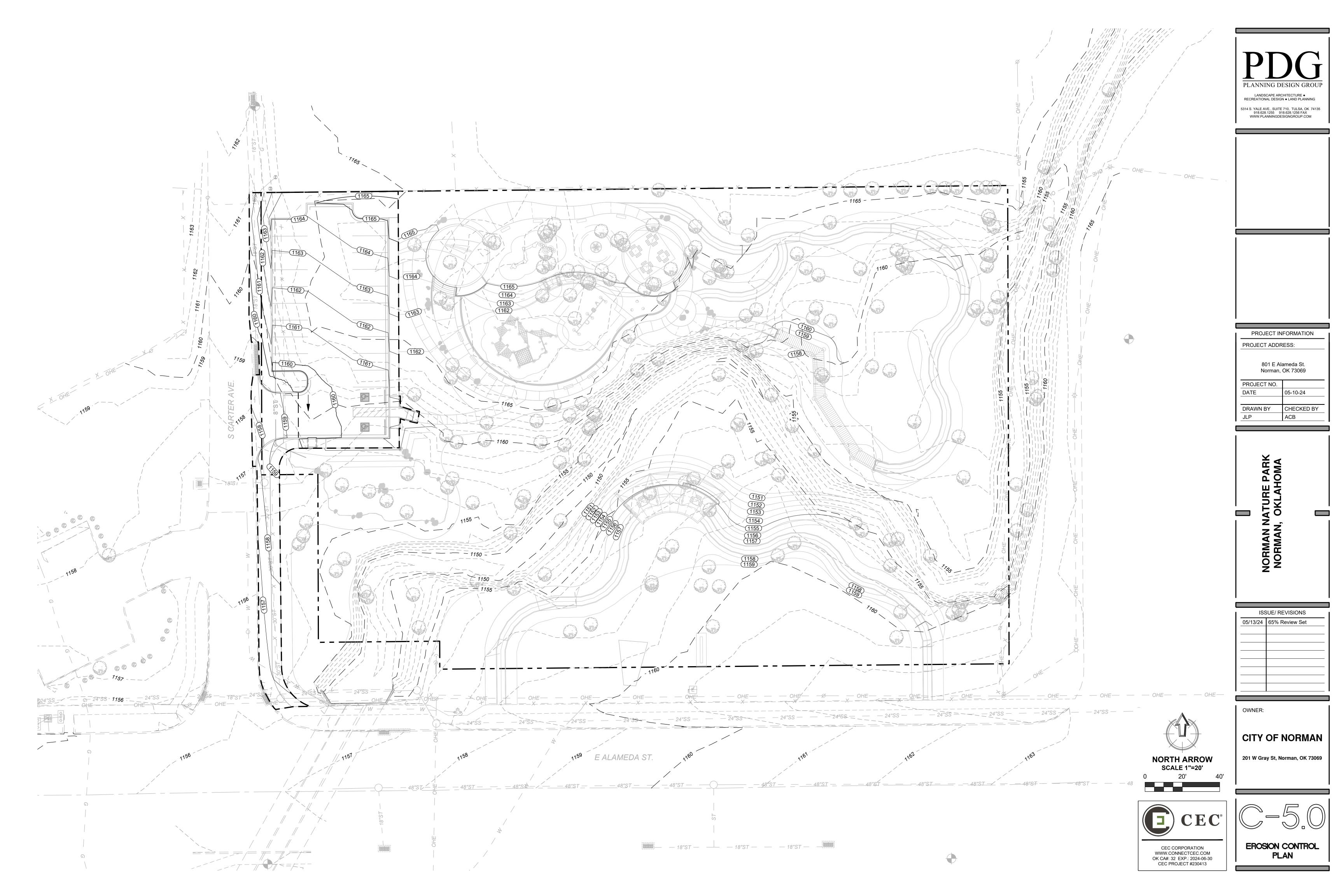


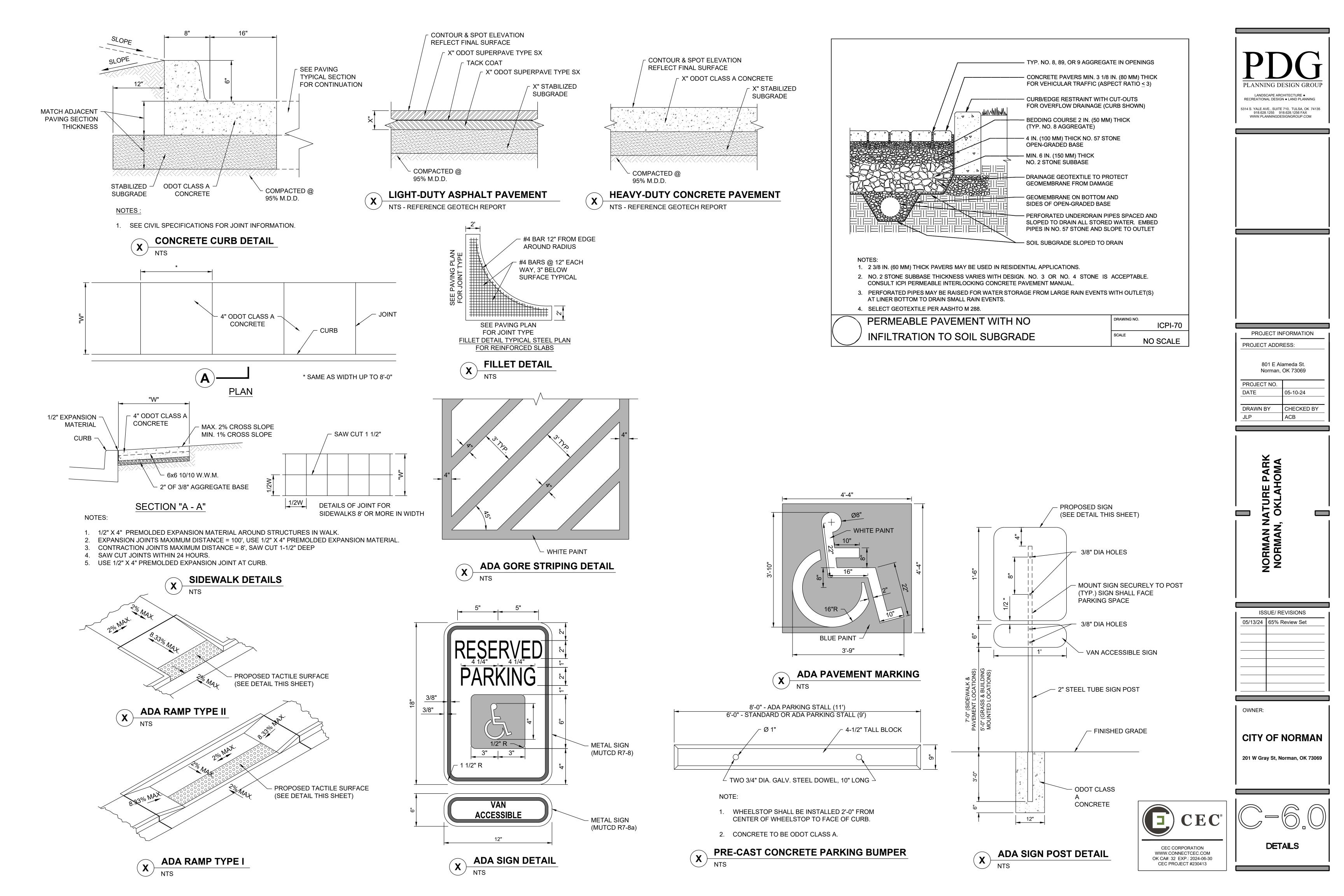


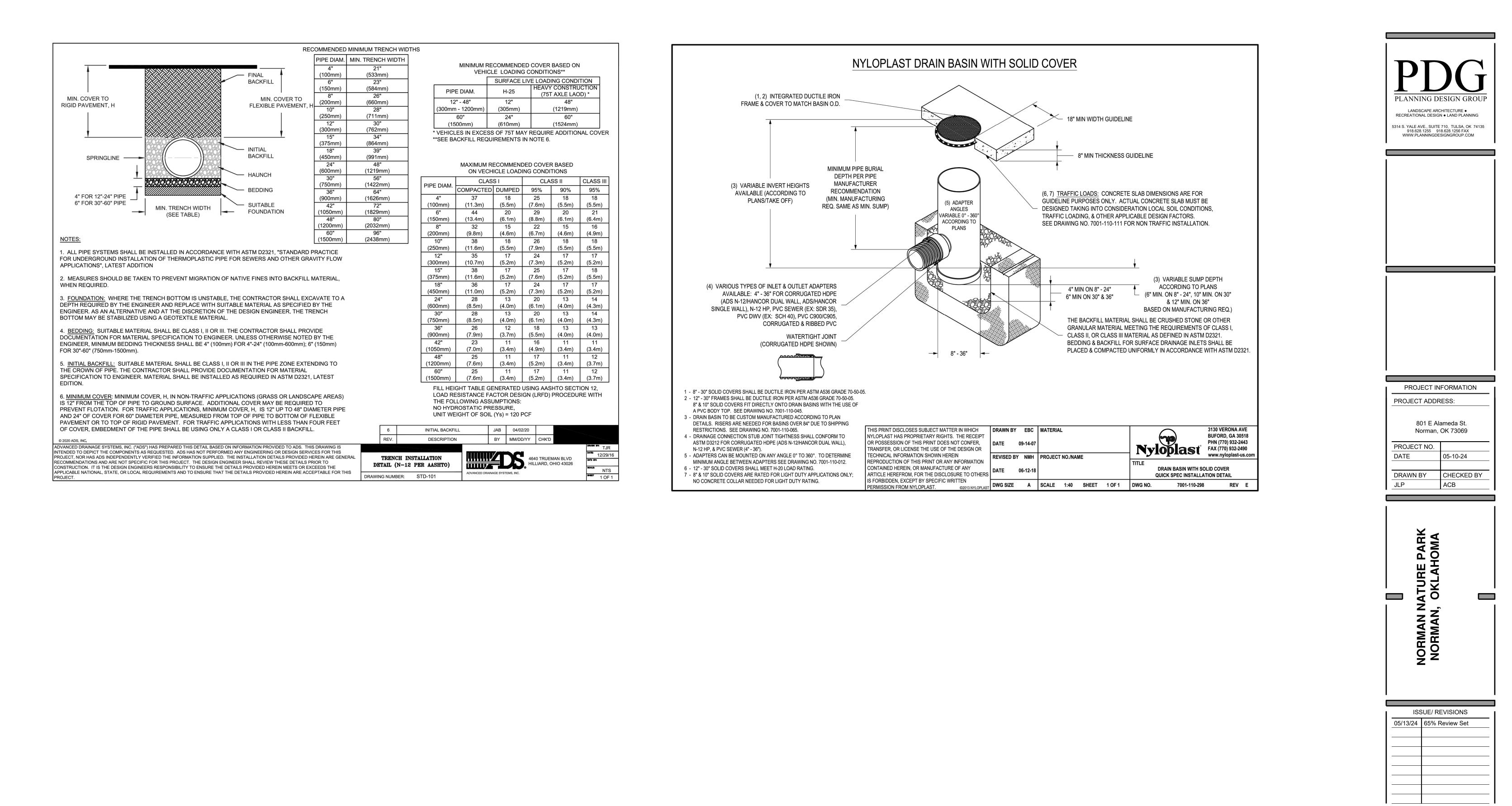












OWNER:

CITY OF NORMAN

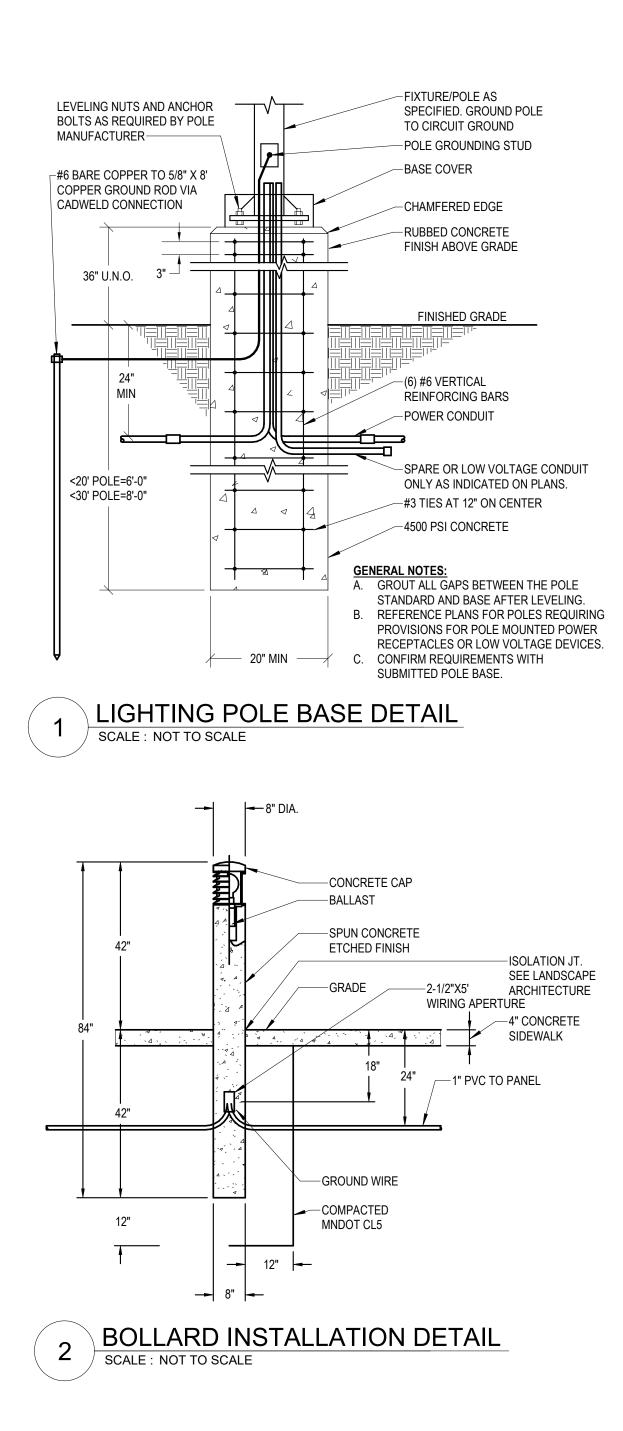


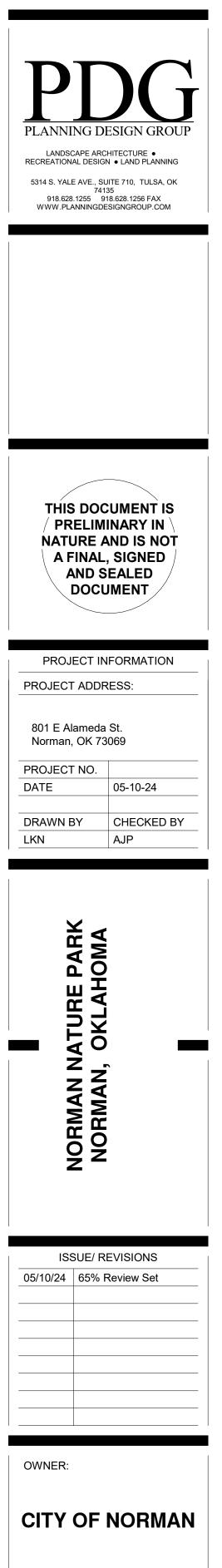
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|---------|----|--|--|--|
| DETAILS | | | | |

| MARK | DESCRIPTION | MARK | DESCRIPTION | MARK | DESCRIPTION |
|------------|--|--------------|--|--|---|
| A | ABOVE COUNTER, REFER DETAIL 9/E-501 | GFCI | GROUND FAULT CIRCUIT INTERRUPTER | OCP | OVERCURRENT PROTECTION |
| AFF/AFG | ABOVE FINISHED FLOOR/GRADE | GND | GROUND | RCPT | RECEPTACLE |
| ALT | ALTERNATE | НОА | HAND OFF AUTOMATIC | SM | SURFACE MOUNTED |
| AMP | AMPERE | IN | INCHES | SPD | SURGE PROTECTION DEVICE |
| APPROX | APPROXIMATE | KW | KILOWATTS | SPEC | SPECIFICATION(S) |
| ARCH | ARCHITECT/ARCHITECTURAL | MCC | MOTOR CONTROL CENTER | TV | TELEVISION |
| ATS | AUTOMATIC TRANSFER SWITCH | MDP | MAIN DISTRIBUTION PANEL | ТҮР | TYPICAL |
| 2 | CONDUIT | MECH | MECHANICAL | UG | UNDERGROUND |
| CLG | CEILING | MTS | MANUAL TRANSFER SWITCH | UNO | UNLESS NOTED OTHERWISE |
| DISC | DISCONNECT SWITCH | NC | NORMALLY CLOSED | V | VOLTS |
| EC | ELECTRICAL CONTRACTOR | NEC | NATIONAL ELECTRIC CODE, NFPA 70 | W/ | WITH |
| XIST | EXISTING | NIC | NOT IN CONTRACT | W/O | WITHOUT |
| P | EXPLOSION PROOF | NL | NIGHT LIGHT | WP | WEATHERPROOF (DEVICE AND WHILE-IN-USE ENCLOSURE) |
| -T | FEET | NO | NORMALLY OPEN | WR | WEATHER RESISTANT (DEVICE AND FLIP ENCLOSURE) |
| GC | GENERAL CONTRACTOR | NTS | NOT TO SCALE | XFMR | TRANSFORMER |
| | | | | 1/E2 | DETAIL 1 ON SHEET E2 |
| | | | | | |
| | HALFTONE SYMBOL INDICATES EXISTING | | NEMA 5-20R DUPLEX RECEPTACLE | | SURFACE MOUNTED RACEWAY WITH POWER/ DATA ASSEMBLIE |
| | DASHED SYMBOL INDICATES DEMOLITION | | NEMA 5-20R QUADPLEX RECEPTACLE, (2 DUPLEX RECEPTS | | |
| <u>درت</u> | ELECTRICAL 480V PANELBOARD | → → A | IN A 2-GANG BOX) NEMA 5-20R DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER | W w | WALL TELEPHONE OUTLET |
| | ELECTRICAL 208V PANELBOARD | | NEMA 5-20R DUPLEX RECEPTACLE MOUNTED IN CEILING | | DATA OUTLET |
| #/#/# | DISCONNECT SWITCH FUSIBLE UNLESS OTHERWISE NOTED, | | TAMPER RESISTANT NEMA 5-20R DUPLEX RECEPTACLE, | | TELEDATA COMBINATION OUTLET |
| | NUMBERS INDICATE FRAME/FUSE//POLE DISCONNECT SWITCH NON FUSIBLE UNLESS OTHERWISE | •••• | GROUND FAULT CIRCUIT INTERRUPTER TYPE WEATHER AND TAMPER RESISTANT NEMA 5-20R DUPLEX | | WIRELESS ACCESS POINT |
| | NOTED, NUMBERS INDICATE FRAME, FUSE, POLE CONTACTOR/MAGNETIC MOTOR STARTER OR COMBINATION | | RECEPTACLE OR SAME IN WEATHERPROOF ENCLOSURE | | CARD READER |
| | TYPE VFD W/ DISCONNECTING MEANS | - IG ⊕-IG | NEMA 5-20R ISOLATED GROUND QUADPLEX, RECEPTACLE, | K | KEYPAD |
| FACP | FIRE ALARM CONTROL PANEL | | ORANGE COLOR TAMPER RESISTANT SPLIT DUPLEX, NEMA 5-20R DUPLEX | | CCTV CAMERA |
| FAAP | FIRE ALARM ANNUCIATOR PANEL | | RECEPTACLE MOUNTED AT 18" WITH TWO CIRCUITS. 20A TAMPER RESISTANT DUPLEX RECEPTACLE | | LIGHT FIXTURE ON (EM) LIFE SAFETY BRANCH, INVERTER, OR |
| NAC | SIGNAL POWER EXTENDER | | (LEVITON T5825 OR EQUAL) TAMPER RESISTANT USB A/C TYPE RECEPTACLE | \$ ³ | INTEGRAL 90 MINUTE BATTERY LIGHT SWITCH, SPST, 20A. NUMBER INDICATES DPST, 3-WAY, 4- |
| | GENERATOR ANNUCIATOR PANELBOARD | _ | (LEVITON T5833 OR EQUAL) ELECTRIC WATER COOLER, NEMA 5-20R DUPLEX RECEPT. MOUNT | \$ ^b | WAY LIGHT SWITCH, SPST, 20A. LETTER INDICATES CONTROL ZONE |
| GAP | MOTOR OUTLET/CONNECTION - SEE SCHEDULE | ⊖ Ewc | PER MANUFACTURER'S REQUIREMENTS. PROVIDE GFCI BREAKER. SPECIAL OUTLET - SEE DEVICE SCHEDULE | Ψ \$ _P | LIGHT SWITCH, PILOT LIGHT "ON", 20A |
| | | | SPECIAL OUTLET - SEE DEVICE SCHEDULE | °₽ \$к | LIGHT SWITCH, KEY-OPERATED, 20A |
| | EQUIPMENT CONNECTION - SEE SCHEDULE MECHANICAL EQUIPMENT TAG | Ē | FURNITURE FEED - FLOOR BOX - TRIM COLOR TBD | ₩ * | |
| | OWNER EQUIPMENT TAG | (FF) | FURNITURE FEED - PLOOR BOX - TRIM COLOR TBD | ФМ \$ _V | MANUAL MOTOR STARTER SWITCH W/ OVERLOAD |
| | | | FLOOR BOX - DUPLEX WITH METALLIC FLIP COVER | * v \$ WP | |
| 0 | | | | | |
| | | | FLOOR BOX - QUAD WITH METALLIC FLIP COVER JUNCTION BOX (J-BOX OR JB) | | |
| | | | INFRARED PLUMBING MOTION SENSOR | | |
| | OPEN CONDUIT END | (IR) (P) | | D F | FAN SWITCH/CONTROLLER |
| | | PB PB | POWER POLE | () () () () () () () () () () () () () (| OCCUPANCY SENSOR - CEILING MOUNTED - SEE LIGHTING |
| A-1,3,5 | HOMERUN WITH BRANCH CIRCUIT(S) AS INDICATED | | PULL BOX SPEAKER (WALL OR CEILING MOUNTED) | | CONTROL SCHEDULE OCCUPANCY SENSOR - WALL MOUNTED - SEE LIGHTING |
| A-1,3,5 | PARTIAL HOMERUN WITH BRANCH CIRCUIT(S) AS INDICATED | HS S | | | |
| | | • | PUSH BUTTON | PC (Second second secon | |
| | LOW VOLTAGE CIRCUIT | | START STOP | DS | INDOOR DAYLIGHT SENSOR - SEE SENSOR SCHEDULE |
| | NORMAL CIRCUIT | | | | |
| ~ - ~ | UNDERGROUND CIRCUIT | | | | |

GENERAL ELECTRICAL REQUIREMENTS:

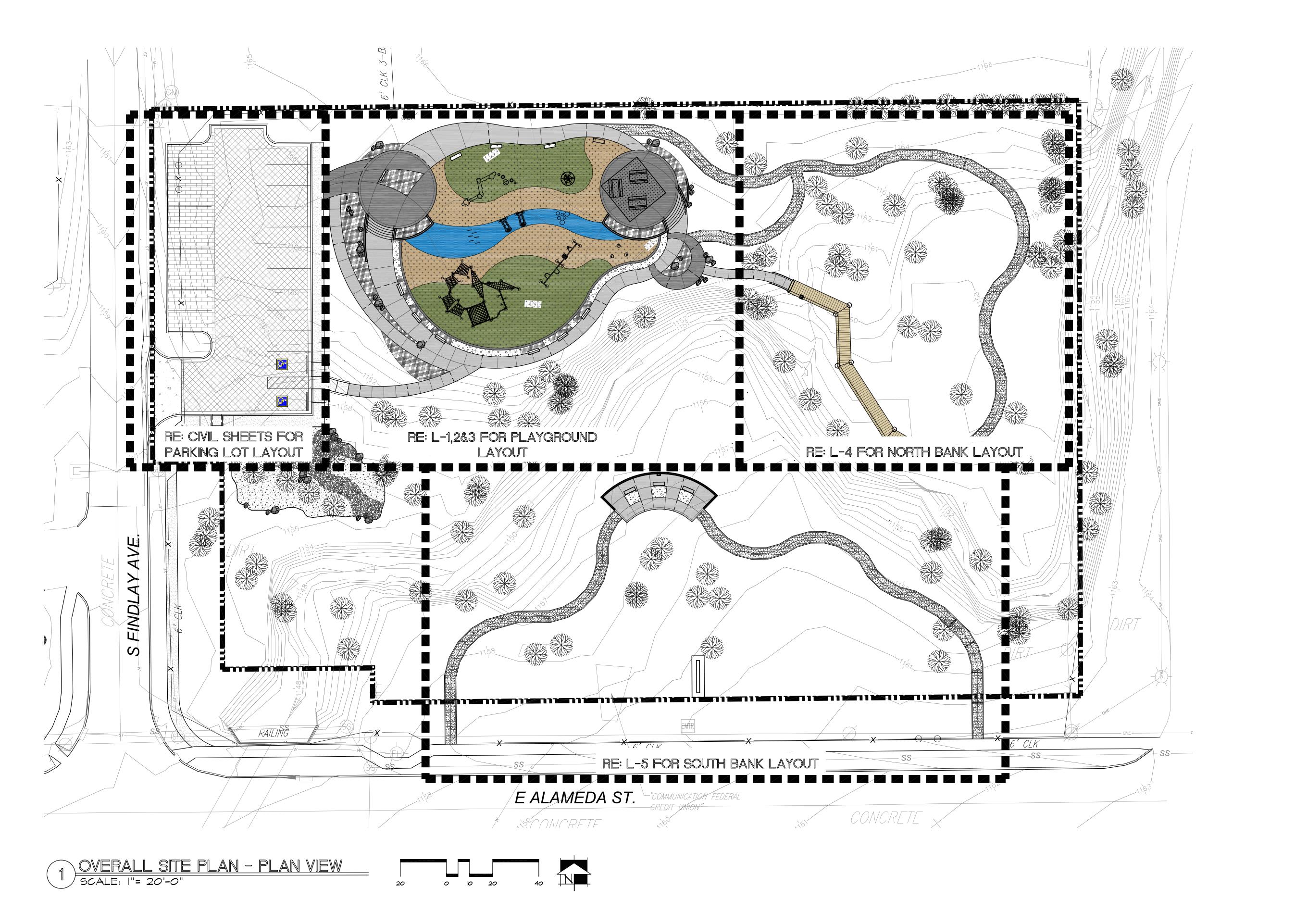
- ELECTRICAL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE ADOPTED EDITIONS OF THE INTERNATIONAL BUILDING (IBC), ELECTRICAL (NEC), AND FIRE (IFC)CODES, NFPA 13, 70, 72, 90A, 101 AND ALL LOCAL AMENDMENTS AND REGULATIONS. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE DRAWINGS AND SHALL BE PERFORMED WITH THE LATEST INDUSTRY ACCEPTED STANDARDS. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND APPLICABLE CODES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE MORE STRINGENT OF THE TWO SHALL BE FOLLOWED, ALL WORK SHALL BE CONDUCTED IN A SAFE MANNER WITH ADEQUATE PROTECTION FOR THE NEW WORK, EXISTING PROPERTY, AND THE GENERAL PUBLIC.
- CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF EXISTING CONDITIONS, NEW WORK, PATCHING, ETC., REQUIRED BY THE PROJECT, AND TO BECOME FAMILIAR WITH THE WORK CONDITIONS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR WORK INDICATED OR REQUIRED; FOR WORK PROVIDED DURING NON-STANDARD HOURS; FOR WORK REQUIRED TO MAINTAIN BUILDING SAFETY AND FUNCTION; FOR WORK TO PATCH/REPAIR BUILDING SYSTEMS AND FINISHES; OR ANY OTHER WORK RESULTING FROM REQUIRED NEW WORK, RECONNECTION, AND/OR DEMOLITION OPERATIONS.
- 3. ELECTRICAL SYSTEM PENETRATIONS THROUGH NEW & EXISTING WALLS, FLOOR/CEILING, OR ROOF CONSTRUCTION SHALL BE THOROUGHLY FILLED WITH FIRE RESISTANT MATERIAL (STUFFING FIBRE-FLAX DURA BLANKET IN CAVITIES) AND SEALED WITH 3M BRAND FIRE BARRIER CAULK, CP25. ALL FIRE STOPPING SHALL BE EQUAL TO OR BETTER THAN ASSEMBLY PENETRATED. PENETRATION OF ALL FIRE BARRIERS SHALL NOT IMPAIR THE INTEGRITY OF THE BARRIER. ALL SLEEVED OPENINGS SHALL BE FINISHED IN SUCH A MANNER THAT MAINTAINS THE FIRE RESISTANCE.
- 4. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL WIRING AND CONDUIT, AND OTHER SYSTEMS SPECIFIED AND REQUIRED IN THE PROJECT. CONTRACTOR SHALL MAINTAIN PROPER CLEARANCES BETWEEN MECHANICAL AND ELECTRICAL EQUIPMENT. DUCTS, PIPES, OR EQUIPMENT SHALL NOT INTRUDE ON ELECTRICAL CLEARANCE SPACE AS DEFINED IN THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE.
- 5. ALL NECESSARY PERMITS, LICENSES, CERTIFICATES, TESTS, ETC., SHALL BE OBTAINED BY THE CONTRACTOR, INCLUDED IN THE PROJECT COST AND BID, WITHOUT ADDITIONAL COST TO THE OWNER OR ENGINEER.
- 6. THE CONTRACTOR SHALL UPDATE RECORD DRAWINGS DAILY. ANNOTATE "AS INSTALLED" CONDITIONS IN RED INK ON HARD COPIES, INDICATING ALL CHANGES FROM THE ORIGINAL DRAWINGS MADE DURING THE INSTALLATION OF THE WORK. AT COMPLETION OF THE PROJECT, THE RECORD DRAWINGS SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE.
- 7. THE CONTRACTOR SHALL PROVIDE A MINIMUM ONE YEAR WARRANTY ON ALL MATERIALS AND LABOR. UNLESS NOTED OTHERWISE.
- 8. CONDITIONS MAY OCCUR THAT WILL REQUIRE MINOR REVISIONS IN ARRANGEMENT OF DUCTWORK, ATTACHMENTS, CONDUIT, ETC., ON VARIOUS SYSTEMS. SUCH MODIFICATIONS ARE DEEMED A PART OF THIS CONTRACT, AND SHALL BE SUBMITTED FOR REVIEW PRIOR TO COMMENCEMENT OF WORK.
- 9. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICAN DISABILITIES ACT (A.D.A.) AND ALL STATE REQUIREMENTS.
- 10. CONTRACTOR SHALL COORDINATE ALL CONNECTION REQUIREMENTS OF OWNER-FURNISHED EQUIPMENT & EQUIPMENT FURNISHED BY OTHERS. PROVIDE NECESSARY MATERIAL AND LABOR FOR A COMPLETE INSTALLATION.
- 11. ALL PATCHING AND PAINTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE PATCHING AND PAINTING AS A RESULT OF MECHANICAL AND ELECTRICAL ALTERATIONS, CHANGES, AND ADDITIONS. COORDINATE WITH ARCHITECT.
- 12. REFER TO ARCHITECTURAL, CIVIL, STRUCTURAL & LANDSCAPE DRAWINGS FOR ADDITIONAL REQUIREMENTS. SEE SEPARATE PROJECT MANUAL FOR GENERAL CONDITIONS AND SPECIFICATIONS, IF APPLICABLE. WHERE DISCREPANCIES OCCUR BETWEEN THESE DRAWINGS AND THE PROJECT MANUAL, THE LATTER SHALL BE FOLLOWED, COORDINATE WITH ENGINEER.
- 13. CONCEAL ALL PIPING AND CONDUIT IN FINISHED AREAS UNLESS OTHERWISE NOTED. ALL PIPING, DEVICES, APPARATUS, EQUIPMENT, ETC., SHALL BE PROPERLY SUPPORTED AND BRACED VERTICALLY AND HORIZONTALLY IN ACCORDANCE WITH CODES AND AS REQUIRED TO PREVENT EXCESSIVE MOVEMENT.
- 14. IN THE EVENT OF SUBSTITUTION OF EQUIPMENT, IT SHALL BE THE RESPONSIBILITY OF THE SUBSTITUTING CONTRACTORS TO COORDINATE ADDITIONAL REQUIREMENTS FOR THESE ALTERATIONS. THE SUBSTITUTING CONTRACTORS SHALL BE RESPONSIBLE TO PROVIDE ADDITIONAL EQUIPMENT, CONDUCTORS, BOXES, CONDUIT, ADJUST OVER-CURRENT PROTECTION DEVICES, PROVIDE ADDITIONAL OCPD, LABOR, ADJUST CONDUCTOR SIZES, ADJUST CONDUCTOR QUANTITIES, AND OTHER NECESSARY APPURTENANCES AS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM PER THE MANUFACTURER'S RECOMMENDATIONS. INCLUDE ALL COSTS IN BASE BID.
- 15. THESE DRAWINGS DIAGRAMMATICALLY INDICATE THE INTENT OF THE PROPOSED CONSTRUCTION. SLIGHT VARIATIONS IN TENANT'S FURNITURE AND SITE CONDITIONS MAY REQUIRE OUTLETS TO BE RELOCATED TO ACCOMMODATE THE ACTUAL FURNITURE AND/OR OUTLETS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL OUTLETS WITH OWNER'S REPRESENTATIVE, PERFORMING ADJUSTMENTS TO OUTLET LOCATIONS AS REQUIRED FOR A FINISHED AND FUNCTIONAL SYSTEM.













PROJECT INFORMATION

PROJECT ADDRESS:

DRAWN BY

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| 001 274 | ameda St. OK 73069 |
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| PROJECT NO. | |
| DATE | 11-02-23 |
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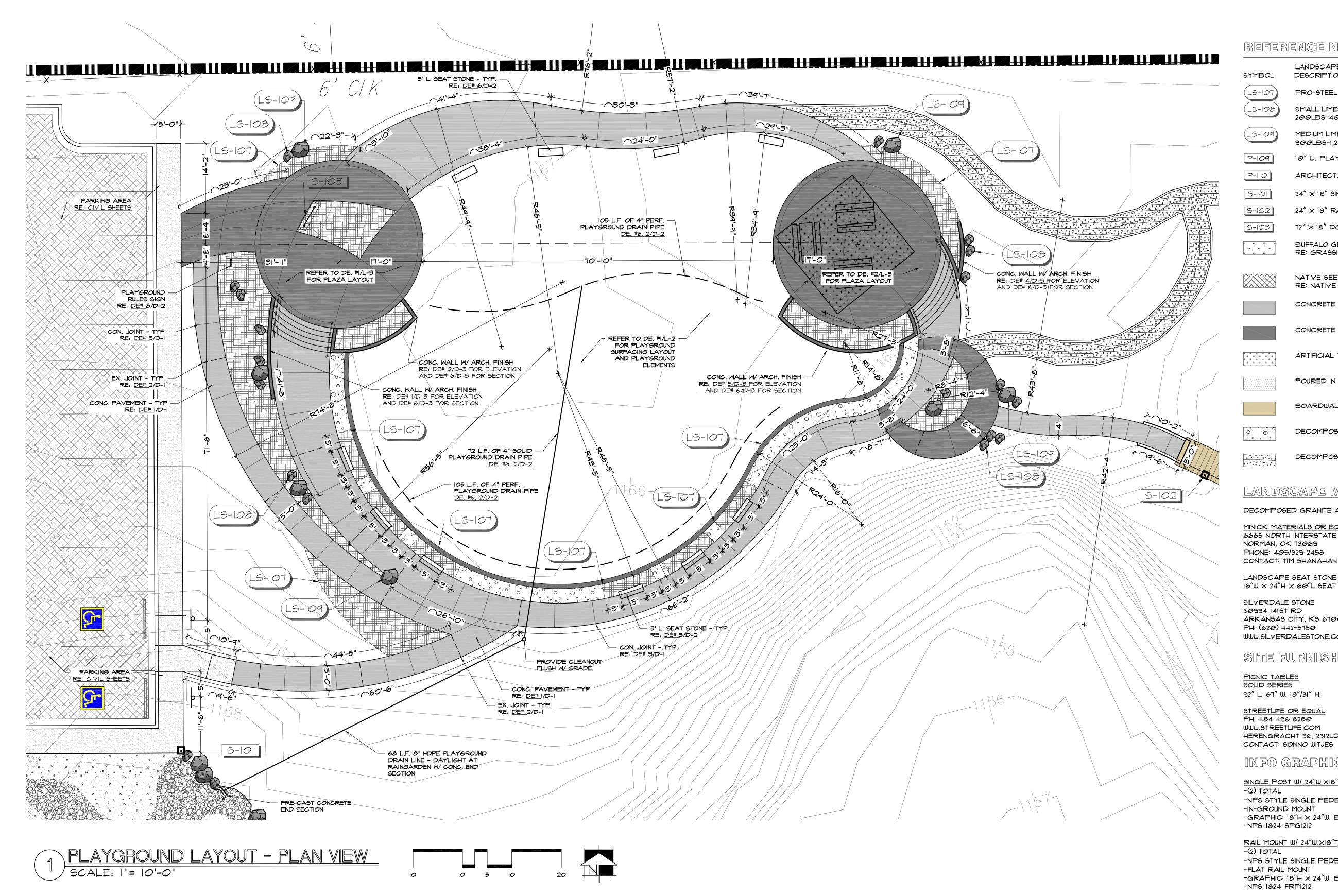
NORMAN NATURE PARK NORMAN, OKLAHOMA

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OWNER:

CITY OF NORMAN

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| OVERALL SITE PLAN | | | | | |



REFERENCE NOTE SCHEDULE

| STMBOL | LANDSCAPE QUANTITIES DESCRIPTION | QTY | |
|--|--|-----------------|-------|
| LS-107 | PRO-STEEL BED EDGING - 3/16"×4" | 114 LF | 1 |
| L5-108 | SMALL LIMESTONE BOULDER 200LBS-400LBS | 27 | |
| L5-109 | MEDIUM LIMESTONE BOULDER 900LBS-1,200LBS | 15 | |
| P-109 | 10" W. PLAYGROUND CURB | 162 LF | ר∠/ר |
| P-110 | ARCHITECTURAL CONCRETE WALLS | 2 <i>0</i> 5 LF | 6/D-3 |
| 5-101 | 24" \times 18" SINGLE POST EDUCATIONAL SIGN | 2 | 9/D-2 |
| 5-102 | 24" \times 18" RAIL ATTACHEDT EDUCATIONAL SIGN | 2 | |
| 5-103 | 12" \times 18" DOUBLE POST EDUCATIONAL SIGN | 1 | |
| * * * * * * * * | BUFFALO GRASS SEED RE: GRASSING NOTES | 22,589 SF | |
| | NATIVE SEED MIX RE: NATIVE SEED NOTES | 19,961 SF | |
| | CONCRETE PAVING (4" WITH THICKENED EDGE) | 3,708 SF | 1/D-1 |
| | CONCRETE PAVING (WITH DAVIS COLOR) | 2,111 SF | 1/D-1 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | ARTIFICIAL TURF (FLAT) | 5,844 SF | 1/D-2 |
| | POURED IN PLACE RUBERIZED SURFACE | 811 SF | 3/D-2 |
| | BOARDWALK | 583 SF | |
| ° ° ° ° | DECOMPOSED GRANITE LANDSCAPE | 407 SF | 9/D-1 |
| | DECOMPOSED GRANITE TRAIL | 3,133 SF | 4/D-1 |

LANDSCAPE MATERIALS INFO

DECOMPOSED GRANITE AND LANDSCAPE BOULDERS

MINICK MATERIALS OR EQUAL 6665 NORTH INTERSTATE DRIVE NORMAN, OK 13069 PHONE: 405/329-2458 CONTACT: TIM SHANAHAN

LANDSCAPE SEAT STONE $18''W \times 24''H \times 60''L$ SEAT STONES

SILVERDALE STONE 30994 1415T RD ARKANSAS CITY, KS 67005 PH: (620) 442-5750 WWW.SILVERDALESTONE.COM

SITE FURNISHINGS INFO

PICNIC TABLES SOLID SERIES

92" L. 67" W. 18"/31" H. STREETLIFE OR EQUAL PH. 484 496 8280 WWW.STREETLIFE.COM HERENGRACHT 36, 2312LD LEIDEN, THE NETHERLANDS

INFO GRAPHIC SIGNS INFO

SINGLE POST W/ 24"W.X18"T. NPS PANEL -(2) TOTAL

-NPS STYLE SINGLE PEDESTAL (45 DEGREE) -IN-GROUND MOUNT -GRAPHIC: $18''H \times 24''W$. BLACK POWDER COATED ALUMINUM -NPS-1824-SPG1212

RAIL MOUNT W/ 24"W.XI8"T. NPS PANEL -(2) TOTAL

-NPS STYLE SINGLE PEDESTAL (45 DEGREE) -FLAT RAIL MOUNT

-GRAPHIC: $18''H \times 24''W$. BLACK POWDER COATED ALUMINUM -NPS-1824-FRP1212

DOUBLE POST W/ 12"W.X18"T. NPS PANEL -(1) TOTAL

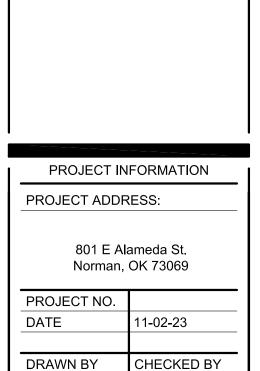
-NPS STYLE SINGLE PEDESTAL (45 DEGREE) -IN-GROUND MOUNT -GRAPHIC: $18"H \times 12"W$. BLACK POWDER COATED ALUMINUM

-NPS-1872-DPG1212

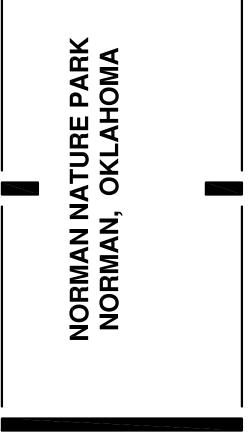
FOSSIL INDUSTRIES, INC. OR APPROVED EQUAL 44 JEFRYN BOULEVARD DEER PARK, NY 11729 PHONE: (631) 254-4172 WEB: WWW.FOSSILGRAPHICS.COM



5314 S. YALE AVE., SUITE 710, TULSA, OK 74135 918.628.1255 918.628.1256 FAX WWW.PLANNINGDESIGNGROUP.COM



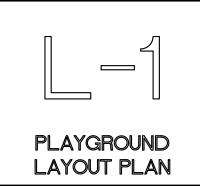
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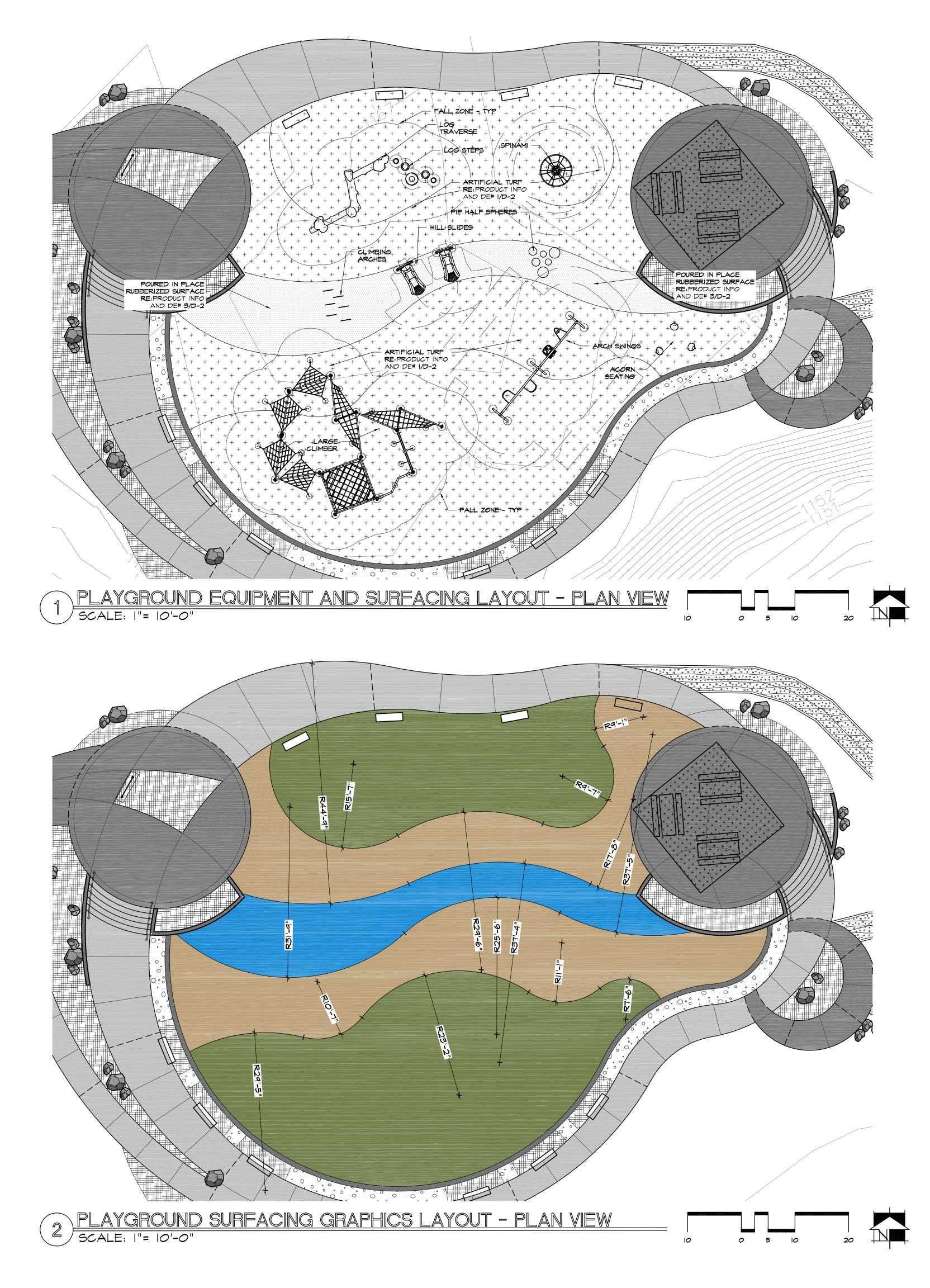


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OWNER:

CITY OF NORMAN





PLAYGROUND EQUIPMENT

| | · | |
|-------------------|--------------|-------------------|
| ITEM DESCRIPTION | MFG | PRODUCT # |
| ROPE CLIMBER | PLAYWORLD | TIANZI CUSTOM |
| SPINAMI | PLAYWORLD | ZZXXØ151 |
| 2-BAY ARCH SWING | PLAYWORLD | 350-ARCH-2 |
| HILL SLIDES | PLAYWORLD | ZZCH2805;3206;320 |
| ACORN SEAT | CRESPLAY | 1000262 |
| LOG TRAVERSE | ID SCULPTURE | AP <i>0</i> 15 |
| STEPPING FORMS-LG | ID SCULPTURE | SF002-LLG |
| STEPPING FORMS-MD | ID SCULPTURE | SF002-LMD |
| STEPPING FORMS-SM | ID SCULPTURE | SFØØ2-LSM |
| HILL HUMPS | MYTCOAT | BKW13-238-19-1M |
| SPHERES | AQUASEAL | 3D HALF-14/18/24 |
| | | |

PLAYGROUND EQUIPMENT INFO

HAPPY PLAYGROUNDS 8601 S. OXFORD AVE., TULSA, OK 14131 PHONE: (918) 691-8245 CONTACT: DANIEL COLLINS WWW.HAPPYPLAYGROUNDS.COM

PLAYGROUND SURFACING INFO

SYNTHETIC TURF = PLAYGROUND GRASS ULTRA FOREVERLAWN TULSA OR EQUAL 5722 E. 110TH ST. TULSA, OK 74137 PHONE: 918/877-8619 CONTACT: ROSS SPENCER

POURED-IN-PLACE RUBBERIZED SURFACING

HAPPY PLAYGROUNDS 8601 S. OXFORD AVE., TULSA, OK 14131 PHONE: (918) 691-8245 CONTACT: DANIEL COLLINS WWW.HAPPYPLAYGROUNDS.COM

*ALL COLORS FOR PLAYGROUND ITEMS AND SURFACING TO BE SELECTED DURING THE SUBMITTAL PROCESS.

Surfacing Graphics Layout

| SYMBOL | DESCRIPTION | QTY | |
|--------|---------------------------------------|----------|--|
| | SAND - SYNTHETIC GRASS COLOR # | 2,413 SF | |
| | VEGITATION - SYTHETIC TURF COLOR # | 3,408 SF | |
| | WATER - PIP RUBER COLOR # | 811 SF | |

REFERENCE NOTE SCHEDULE

| STMBOL | LANDSCAPE QUANTITIES DESCRIPTION | QTY | |
|--|--|---------------------|-------|
| LS-107 | PRO-STEEL BED EDGING - 3/16"×4" | 114 LF | 1 |
| L5-108 | SMALL LIMESTONE BOULDER 200LBS-400LBS | 27 | |
| LS-109 | MEDIUM LIMESTONE BOULDER 900LBS-1,200LBS | 15 | |
| P-109 | 10" W. PLAYGROUND CURB | 162 LF | ר∠/ג |
| P-110 | ARCHITECTURAL CONCRETE WALLS | 205 LF | 6/D-3 |
| 5-101 | 24" \times 18" SINGLE POST EDUCATIONAL SIGN | 2 | 9/D-2 |
| 5-102 | 24" \times 18" RAIL ATTACHEDT EDUCATIONAL SIGN | 2 | |
| 5-103 | 12" \times 18" DOUBLE POST EDUCATIONAL SIGN | 1 | |
| 2 | BUFFALO GRASS SEED RE: GRASSING NOTES | 22,589 SF | |
| | NATIVE SEED MIX RE: NATIVE SEED NOTES | 19,961 SF | |
| | CONCRETE PAVING (4" WITH THICKENED EDGE) | 3,708 SF | 1/D-1 |
| | CONCRETE PAVING (WITH DAVIS COLOR) | 2,111 SF | 1/D-1 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | ARTIFICIAL TURF (FLAT) | 5,844 SF | 1/D-2 |
| | POURED IN PLACE RUBERIZED SURFACE | 811 SF | 3/D-2 |
| | BOARDWALK | 583 SF | |
| 0 0 | DECOMPOSED GRANITE LANDSCAPE | 401 SF | 9/D-1 |
| | DECOMPOSED GRANITE TRAIL | 3,133 SF | 4/D-1 |

LANDSCAPE MATERIALS INFO

DECOMPOSED GRANITE AND LANDSCAPE BOULDERS

MINICK MATERIALS OR EQUAL 6665 NORTH INTERSTATE DRIVE NORMAN, OK 13063 PHONE: 405/329-2458 CONTACT: TIM SHANAHAN

LANDSCAPE SEAT STONE 18"W \times 24"H \times 60"L SEAT STONES

SILVERDALE STONE 30994 141ST RD ARKANSAS CITY, KS 67005 PH: (620) 442-5750 WWW.SILVERDALESTONE.COM

SITE FURNISHINGS INFO

PICNIC TABLES SOLID SERIES 92" L. 61" W. 18"/31" H.

WWW.STREETLIFE.COM HERENGRACHT 36, 2312LD LEIDEN, THE NETHERLANDS CONTACT: SONNO WITJES

INFO GRAPHIC SIGNS INFO

SINGLE POST W/ 24"W.XI8"T. NPS PANEL

-(2) TOTAL -NPS STYLE SINGLE PEDESTAL (45 DEGREE)

-IN-GROUND MOUNT -GRAPHIC: $18''H \times 24''W$. BLACK POWDER COATED ALUMINUM -NPS-1824-SPG1212

RAIL MOUNT W/ 24"W.XI8"T. NPS PANEL

-(2) TOTAL -NPS STYLE SINGLE PEDESTAL (45 DEGREE)

-FLAT RAIL MOUNT

-GRAPHIC: $18''H \times 24''W$. BLACK POWDER COATED ALUMINUM -NP3-1824-FRP1212

DOUBLE POST W/ 12"W.XI8"T. NPS PANEL -(1) TOTAL

-NP9 9TYLE 9INGLE PEDESTAL (45 DEGREE) -IN-GROUND MOUNT -GRAPHIC: 18"H × 12"W. BLACK POWDER COATED ALUMINUM -NP9-1812-DPG1212

FOSSIL INDUSTRIES, INC. OR APPROVED EQUAL 44 JEFRYN BOULEVARD DEER PARK, NY 11729 PHONE: (631) 254-4172

WEB: WWW.FOSSILGRAPHICS.COM



OWNER:

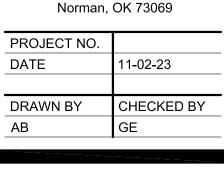
CITY OF NORMAN

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201 W Gray St, Norman, OK 73069



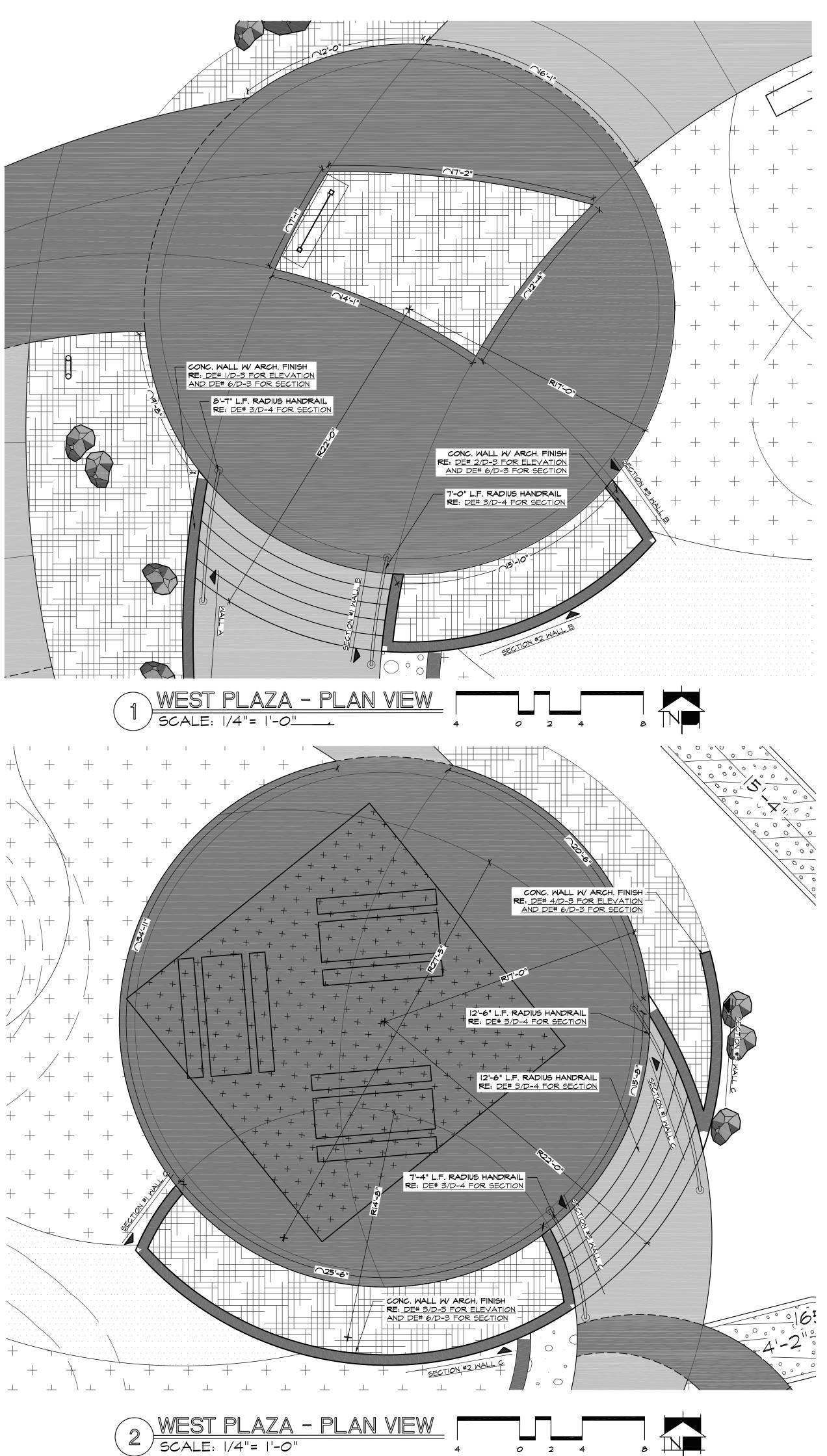


PROJECT INFORMATION

801 E Alameda St.

PROJECT ADDRESS:





REFERENCE NOTE SCHEDULE

| STMBOL | LANDSCAPE QUANTITIES DESCRIPTION | QTY | |
|---|--|-----------------|-------|
| LS-107 | PRO-STEEL BED EDGING - 3/16"×4" | 114 LF | 1 |
| L5-108 | SMALL LIMESTONE BOULDER 200LBS-400LBS | 27 | |
| LS-109 | MEDIUM LIMESTONE BOULDER 900LBS-1,200LBS | 15 | |
| P-109 | 10" W. PLAYGROUND CURB | 162 LF | ר∠/ר |
| P-110 | ARCHITECTURAL CONCRETE WALLS | 2 <i>0</i> 5 LF | 6/D-3 |
| 5-101 | 24" \times 18" SINGLE POST EDUCATIONAL SIGN | 2 | 9/D-2 |
| 5-102 | 24" \times 18" RAIL ATTACHEDT EDUCATIONAL SIGN | 2 | |
| 5-103 | $72'' \times 18''$ DOUBLE POST EDUCATIONAL SIGN | 1 | |
| | BUFFALO GRASS SEED RE: GRASSING NOTES | 22,589 SF | |
| | NATIVE SEED MIX RE: NATIVE SEED NOTES | 19,961 SF | |
| \sum | CONCRETE PAVING (4" WITH THICKENED EDGE) | 3,708 SF | 1/D-1 |
| | CONCRETE PAVING (WITH DAVIS COLOR) | 2,111 SF | 1/D-1 |
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| | POURED IN PLACE RUBERIZED SURFACE | 811 SF | 3/D-2 |
| | BOARDWALK | 583 SF | |
| 0 0 | DECOMPOSED GRANITE LANDSCAPE | 401 SF | 9/D-1 |
| 0 | DECOMPOSED GRANITE TRAIL | 3,133 SF | 4/D-1 |

LANDSCAPE MATERIALS INFO

DECOMPOSED GRANITE AND LANDSCAPE BOULDERS

MINICK MATERIALS OR EQUAL 6665 NORTH INTERSTATE DRIVE NORMAN, OK 13069

PHONE: 405/329-2458 CONTACT: TIM SHANAHAN

LANDSCAPE SEAT STONE $18''W \times 24''H \times 60''L$ SEAT STONES

SILVERDALE STONE 30994 1419T RD ARKANSAS CITY, KS 67005 PH: (620) 442-5750 WWW.SILVERDALESTONE.COM

SITE FURNISHINGS INFO

PICNIC TABLES SOLID SERIES 92" L. 67" W. 18"/31" H.

-IN-GROUND MOUNT

-NPS-1824-SPG1212

-FLAT RAIL MOUNT

-NP9-1824-FRP1212

-IN-GROUND MOUNT

-NPS-1872-DPG1212

44 JEFRYN BOULEVARD

WEB: WWW.FOSSILGRAPHICS.COM

DEER PARK, NY 11729 PHONE: (631) 254-4172

-(2) TOTAL

-(1) TOTAL

STREETLIFE OR EQUAL PH. 484 496 8280 WWW.STREETLIFE.COM

HERENGRACHT 36, 2312LD LEIDEN, THE NETHERLANDS CONTACT: SONNO WITJES

-(2) TOTAL

RAIL MOUNT W/ 24"W.X18"T. NPS PANEL

DOUBLE POST W/ 72"W.X18"T. NPS PANEL

-NPS STYLE SINGLE PEDESTAL (45 DEGREE)

FOSSIL INDUSTRIES, INC. OR APPROVED EQUAL

SINGLE POST W/ 24"W.X18"T. NPS PANEL

-NPS STYLE SINGLE PEDESTAL (45 DEGREE)

-NPS STYLE SINGLE PEDESTAL (45 DEGREE)

INFO GRAPHIC SIGNS INFO

-GRAPHIC: $18''H \times 24''W$. BLACK POWDER COATED ALUMINUM

-GRAPHIC: $18''H \times 24''W$. BLACK POWDER COATED ALUMINUM

-GRAPHIC: $18''H \times 12''W$. BLACK POWDER COATED ALUMINUM

801 E Alameda St.

Norman, OK 73069

1-02-23

CHECKED BY

PROJECT INFORMATION

PROJECT ADDRESS:

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NORMAN NATURE PA NORMAN, OKLAHON

ISSUE/ REVISIONS

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PROJECT NO.

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DATE

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5314 S. YALE AVE., SUITE 710, TULSA, OK 74135 918.628.1255 918.628.1256 FAX WWW.PLANNINGDESIGNGROUP.COM

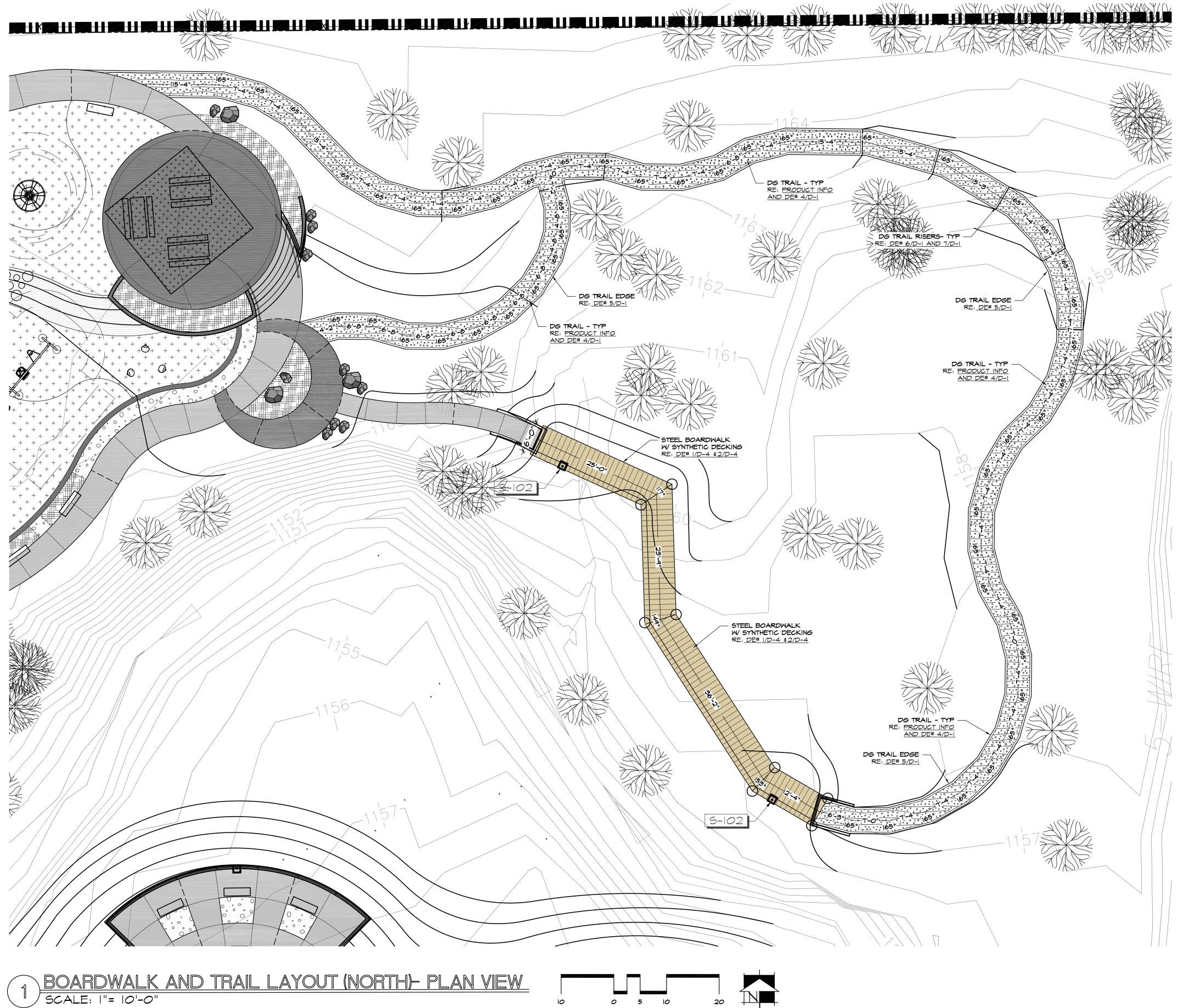




CITY OF NORMAN

201 W Gray St, Norman, OK 73069

OWNER:



0

1 BOARDWALK AND TRAIL LAYOUT (NORTH)- PLAN VIEW SCALE: 1"= 10'-0"

REFERENCE NOTE SCHEDULE

| SYMBOL | LANDSCAPE QUANTITIES DESCRIPTION | QTY | |
|--|--|-----------|-------|
| LS-107 | PRO-STEEL BED EDGING - 3/16"×4" | 114 LF | 1 |
| L5-108 | SMALL LIMESTONE BOULDER 200LBS-400LBS | 27 | |
| LS-109 | MEDIUM LIMESTONE BOULDER 900LB5-1,200LB5 | 15 | |
| P-109 | 10" W. PLAYGROUND CURB | 162 LF | ר⊿/ר |
| P-110 | ARCHITECTURAL CONCRETE WALLS | 205 LF | 6/D-3 |
| 5-101 | 24" \times 18" SINGLE POST EDUCATIONAL SIGN | 2 | 9/D-2 |
| 5-102 | 24" \times 18" RAIL ATTACHEDT EDUCATIONAL SIGN | 2 | |
| 5-103 | $12'' \times 18''$ Double Post Educational Sign | 1 | |
| ~ + + + + + + - + + + | BUFFALO GRASS SEED RE: GRASSING NOTES | 22,589 SF | |
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| | CONCRETE PAVING (4" WITH THICKENED EDGE) | 3,708 SF | 1/D-1 |
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| | POURED IN PLACE RUBERIZED SURFACE | 811 SF | 3/D-2 |
| | BOARDWALK | 583 SF | |
| | DECOMPOSED GRANITE LANDSCAPE | 401 SF | 9/D-1 |
| | DECOMPOSED GRANITE TRAIL | 3,133 SF | 4/D-1 |

LANDSCAPE MATERIALS INFO

DECOMPOSED GRANITE AND LANDSCAPE BOULDERS

MINICK MATERIALS OR EQUAL 6665 NORTH INTERSTATE DRIVE NORMAN, OK 13069

PHONE: 405/329-2458 CONTACT: TIM SHANAHAN

LANDSCAPE SEAT STONE $18''W \times 24''H \times 60''L SEAT STONES$

SILVERDALE STONE 30994 1419T RD ARKANSAS CITY, KS 61005 PH: (620) 442-5750 WWW.SILVERDALESTONE.COM

SITE FURNISHINGS INFO

PICNIC TABLES SOLID SERIES 92" L. 67" W. 18"/31" H.

STREETLIFE OR EQUAL PH. 484 496 8280 WWW.STREETLIFE.COM

HERENGRACHT 36, 2312LD LEIDEN, THE NETHERLANDS CONTACT: SONNO WITJES

INFO GRAPHIC SIGNS INFO

SINGLE POST W/ 24"W.X18"T. NPS PANEL -(2) TOTAL -NPS STYLE SINGLE PEDESTAL (45 DEGREE) -IN-GROUND MOUNT -GRAPHIC: $18''H \times 24''W$. BLACK POWDER COATED ALUMINUM

-NPS-1824-SPG1212

RAIL MOUNT W/ $24^{"}W.\times 18^{"}T.$ NPS PANEL -(2) TOTAL

-NPS STYLE SINGLE PEDESTAL (45 DEGREE)

-FLAT RAIL MOUNT -GRAPHIC: $18''H \times 24''W$. BLACK POWDER COATED ALUMINUM

-NP9-1824-FRP1212

DOUBLE POST W/ $12^{"}$ W.XI8"T. NPS PANEL -(1) TOTAL

-NPS STYLE SINGLE PEDESTAL (45 DEGREE) -IN-GROUND MOUNT -GRAPHIC: $18''H \times 12''W$. BLACK POWDER COATED ALUMINUM

-NPS-1872-DPG1212 FOSSIL INDUSTRIES, INC. OR APPROVED EQUAL 44 JEFRYN BOULEVARD

DEER PARK, NY 11729 PHONE: (631) 254-4172

WEB: WWW.FOSSILGRAPHICS.COM



OWNER:

CITY OF NORMAN

201 W Gray St, Norman, OK 73069

NORMAN NATURE PAI NORMAN, OKLAHOM -----_____

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Norman, OK 73069 PROJECT NO. DATE 1-02-23 DRAWN BY CHECKED BY ΔR

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801 E Alameda St.

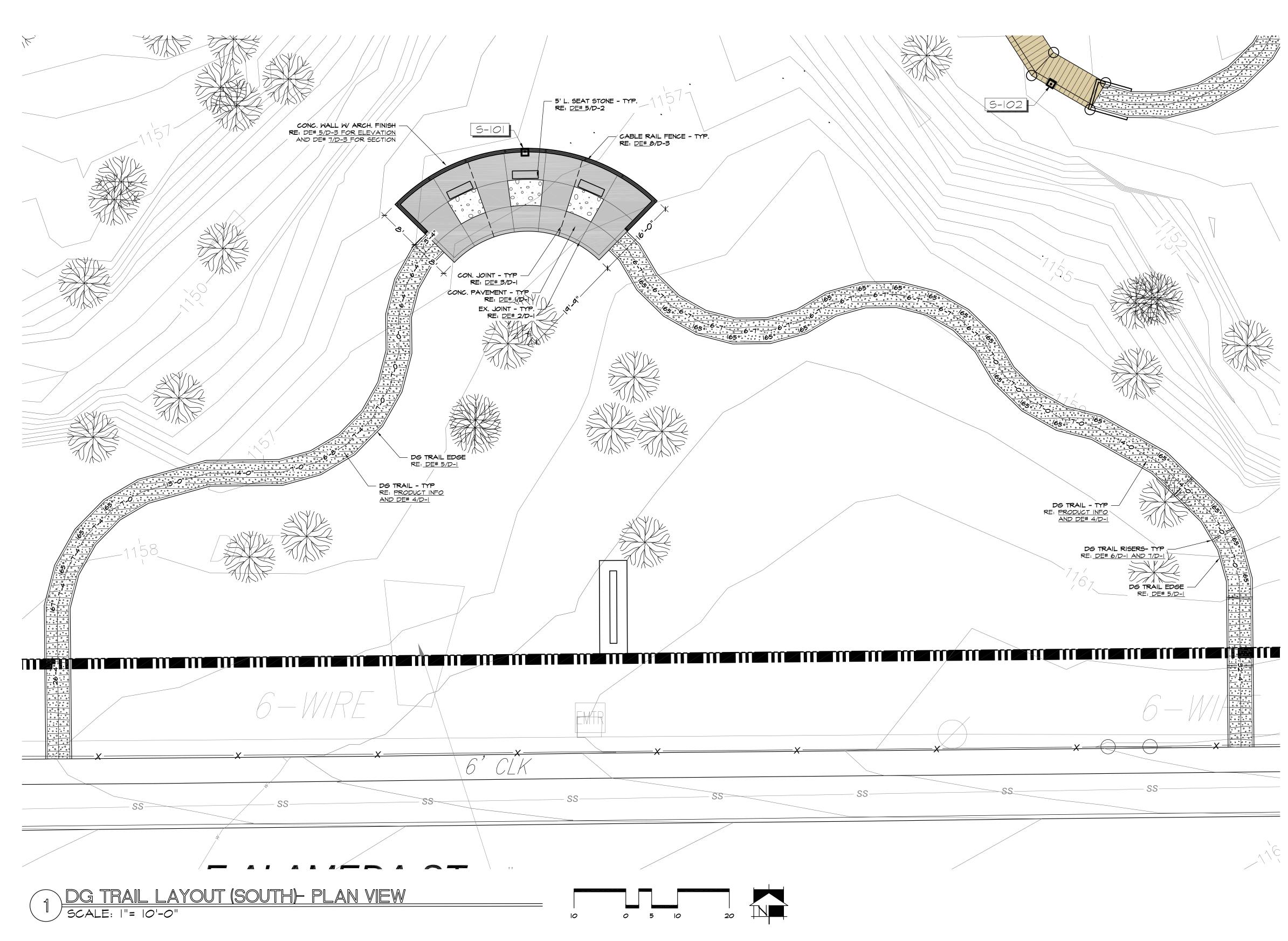
PROJECT INFORMATION

PROJECT ADDRESS:

5314 S. YALE AVE., SUITE 710, TULSA, OK 74135 918.628.1255 918.628.1256 FAX WWW.PLANNINGDESIGNGROUP.COM

LANDSCAPE ARCHITECTURE • RECREATIONAL DESIGN • LAND PLANNING





REFERENCE NOTE SCHEDULE

| SYMBOL | LANDSCAPE QUANTITIES DESCRIPTION | aty | |
|--|--|-----------------|-------|
| LS-107 | PRO-STEEL BED EDGING - 3/16"×4" | 114 LF | 1 |
| L5-108 | SMALL LIMESTONE BOULDER 200LBS-400LBS | 27 | |
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| | BOARDWALK | 583 SF | |
| | DECOMPOSED GRANITE LANDSCAPE | 407 SF | 9/D-1 |
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CONTACT: TIM SHANAHAN LANDSCAPE SEAT STONE

 $18''W \times 24''H \times 60''L SEAT STONES$

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INFO GRAPHIC SIGNS INFO

SINGLE POST W/ 24"W.X18"T. NPS PANEL -(2) T*O*TAL

-NPS STYLE SINGLE PEDESTAL (45 DEGREE) -IN-GROUND MOUNT -GRAPHIC: $18''H \times 24''W$. BLACK POWDER COATED ALUMINUM

-NPS-1824-SPG1212

RAIL MOUNT W/ 24"W.XI8"T. NPS PANEL

-(2) TOTAL -NPS STYLE SINGLE PEDESTAL (45 DEGREE)

-FLAT RAIL MOUNT -GRAPHIC: $18''H \times 24''W$. BLACK POWDER COATED ALUMINUM

-NPS-1824-FRP1212 DOUBLE POST W/ 12"W.X18"T. NPS PANEL

-(1) TOTAL -NPS STYLE SINGLE PEDESTAL (45 DEGREE)

-IN-GROUND MOUNT -GRAPHIC: $18''H \times 12''W$. BLACK POWDER COATED ALUMINUM -NPS-1872-DPG1212

FOSSIL INDUSTRIES, INC. OR APPROVED EQUAL 44 JEFRYN BOULEVARD DEER PARK, NY 11729

PHONE: (631) 254-4172

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CITY OF NORMAN

201 W Gray St, Norman, OK 73069

OWNER:

ISSUE/ REVISIONS 05/13/24 65% Review Set



801 E Alameda St. Norman, OK 73069

PROJECT NO. DATE 1-02-23 DRAWN BY CHECKED BY

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PROJECT INFORMATION PROJECT ADDRESS:

5314 S. YALE AVE., SUITE 710, TULSA, OK 74135 918.628.1255 918.628.1256 FAX WWW.PLANNINGDESIGNGROUP.COM

PLANNING DESIGN GROUP LANDSCAPE ARCHITECTURE ● RECREATIONAL DESIGN ● LAND PLANNING





| CALL | | LIGHT S | SOURCE | | |
|------|--------|---------|--------|------|--------------|
| OUT | LUMENS | CCT | CRI | WATT |] |
| K1 | 1260LM | 3000K | 90CRI | 7 W | BOL WITH |
| K2 | 1260LM | 3000K | 90CRI | 7 W | BOL WITH |
| Z1 | 8100LM | 3000K | 70CRI | 45 W | SINC TYPI |
| Z2 | 8100LM | 3000K | 70CRI | 45 W | SINC TYPI |

B. SUBMITTING AGENT SHALL PROVIDE ALL REQUESTED COLOR SAMPLES, WORKING FIXTURE SAMPLES AND OR PHOTOMETRIC CALCULATIONS WITHIN 10 DAYS IF REQUESTED FROM THE DESIGN TEAM. C. THE DESIGN TEAM SHALL RESERVE THE RIGHT TO APPROVE OR REJECT ANY SUBSTITUTED FIXTURE BASED ON ANY OF THE FOLLOWING: AESTHETICS, PERFORMANCE, FEATURES, QUALITY, COST, AND LEAD TIMES.
 2. SEE LANDCAPE ARCHITECTURAL PLANS FOR ADDITIONAL LIGHTING INFORMATION - ELEVATIONS, DETAILS, ETC.

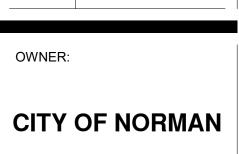
ELECTRICAL SITE PLAN SCALE : 1" = 20'-0"

| | LIGHTING FIXTURE SCHEDULE | | | | |
|---|--|-----------------|---------------------------|--|---|
| - | DESCRIPTION | MOUNTING | MANUFACTURER | CATALOG NUMBER | GENERAL NOTES |
| | BOLLARD SOLAR LIGHT FIXTURE WITH TYPE 2 DISTRIBUTION. | BOLLARD MOUNTED | GRID SHIFT SOLAR LIGHTING | CS-BOL-SEN-6R-II-36" | SEE BOLLARD DETAIL 2/E-001. |
| | BOLLARD SOLAR LIGHT FIXTURE WITH TYPE 5 DISTRIBUTION | BOLLARD MOUNTED | GRID SHIFT SOLAR LIGHTING | CS-BOL-SEN-6R-V-36" | SEE BOLLARD DETAIL 2/E-001. |
| | SINGLE POLE SOLAR FIXTURE WITH TYPE 4 DISTRIBUTION. | POLE MOUNTED | GRID SHIFT SOLAR LIGHTING | CS-SIE-2731-45-8100-IV-30K-MB1-BRZ-Y-1 | 20' SQUARE STRAIGHT ALUMINUM POLE, ON 3' BASE. SEE POLE BASE DETAIL 1/E-001 |
| | SINGLE POLE SOLAR FIXTURE WITH TYPE 2 DISTIBUTION. | POLE MOUNTED | GRID SHIFT SOLAR LIGHTING | CS-SIE-2731-45-8100-II-30K-MB1-BRZ-Y-1 | 20' SQUARE STRAIGHT ALUMINUM POLE, ON 3' BASE. SEE POLE BASE DETAIL 1/E-001 |

LIGHTING FIXTURE NOTES 1. SPECIFIED FIXTURES INDICATE DESIGN INTENT. SUBSTITUTIONS SOLICITED FROM OWNER, LANDSCAPRE ARCHITECT, ENGINEER OR GENERAL CONTRACTOR SHALL ONLY BE CONSIDERED IF THEY MEET THE FOLLOWING CRITERIA: A. ARE SUBMITTED 7 DAYS PRIOR TO BID DAY.

SITE PLAN NOTES

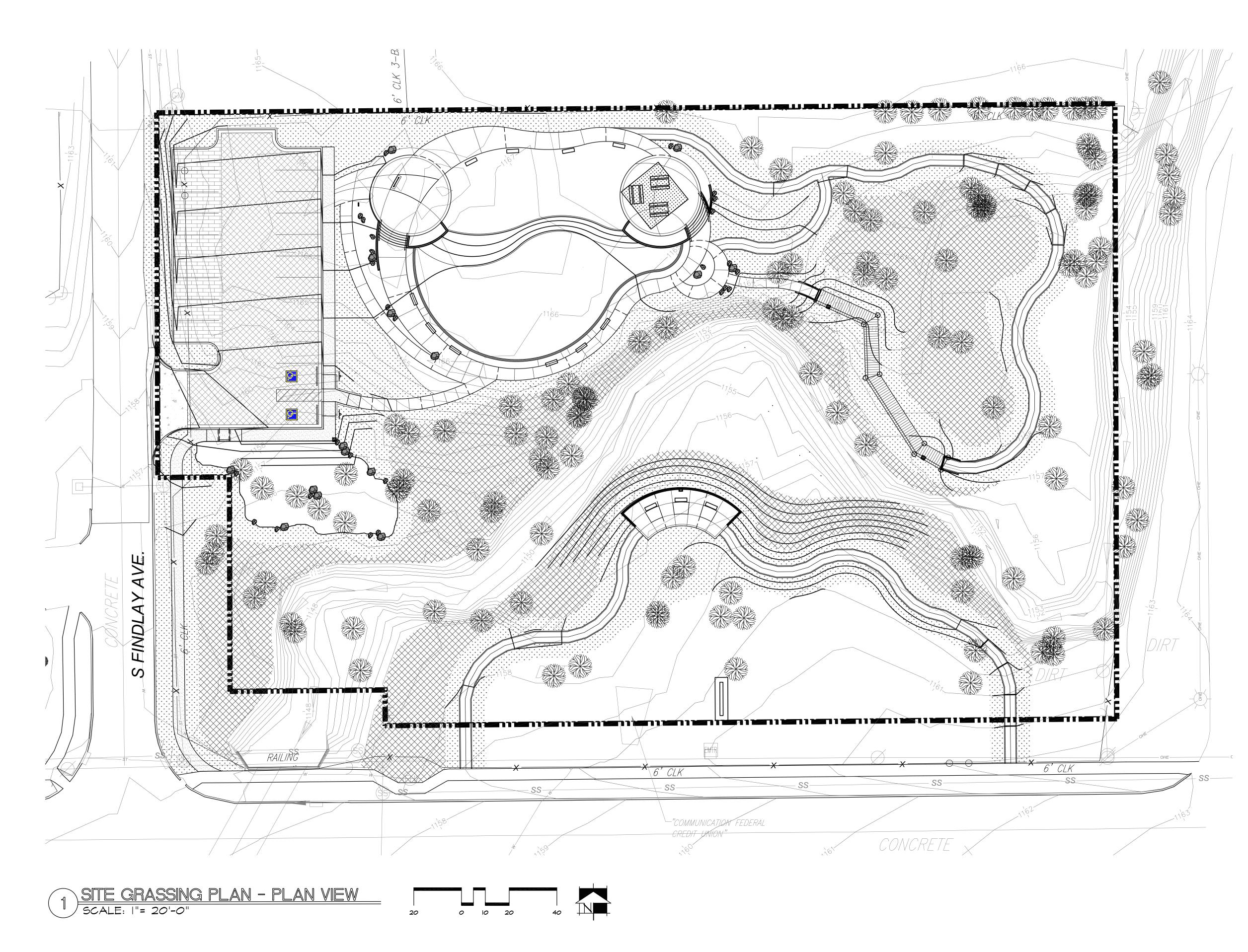
A. REFERENCE CIVIL UTILITY PLAN AND LANDSCAPE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.



201 W Gray St, Norman, OK 73069



E-101 ELECTRICAL SITE PLAN



LANDSCAPE QUANTITIES

| STMBOL | DESCRIPTION | aty | |
|-------------------------------|---|-----------|---|
| (LS-107) | PRO-STEEL BED EDGING - 3/16"×4" | 114 LF | 1 |
| L5-108 | SMALL LIMESTONE BOULDER 200LBS-400LBS | 27 | |
| L5-109 | MEDIUM LIMESTONE BOULDER 900LBS-1,200LBS | 15 | |
| STMBOL | DESCRIPTION | QTY | |
| + + + + + + + < + + + + | BUFFALO GRASS SEED RE: GRASSING NOTES | 22,681 SF | |
| | NATIVE SEED MIX RE: NATIVE SEED NOTES | 19,961 SF | |
| SYMBOL | DESCRIPTION | QTY | |
| | PLANTING BED RE: PLANTING NOTES | 14.52 CY | 1 |

GENERAL LANDSCAPE NOTES

H:HEIGHT, S:SPREAD CAL:CALIPER, O.C.: ON CENTER, B&B:BALLED & BURLAPPED, GAL:GALLON, ABH: AT BREAST HEIGHT

THE MATERIAL LIST IS PROVIDED FOR THE CONTRACTOR'S CONVENIENCE. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR FIGURING ALL QUANTITIES FROM THE PLANTING PLAN AND COVERAGES FOR ALL BED AREAS. WHEN DISCREPANCIES OCCUR BETWEEN THE MATERIAL LIST AND THE PLANTING PLAN, THE PLANTING PLAN SUPERSEDES THE MATERIAL LIST IN ALL CASES. THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR ALL PLANTS AND COVERAGE OF BED AREAS ON THE PLANTING PLAN. THE PLANTING PLAN SUPERSEDES THE MATERIAL LIST AND COVERAGE OF DED AREAS ON THE PLANTING PLAN. TREES IN THE LANDSCAPE MATERIAL LIST ARE TO BE OBTAINED FROM SPECIFIC VENDORS OR APPROVED EQUAL; REFER TO APPROVED VENDER LIST BELOW. TREE NOTES

I. ALL TREES TO BE WATERED WITH SLOW DRIP 20 GALLON WATERING BAG. CONTRACTOR TO INCLUDE WATERING BAGS IN BID. CONTRACTOR RESPONSIBLE FOR INSTALLING WATERING BAGS.

PLANTING NOTES

- I. OUTLINE ALL PLANTING BEDS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO COMMENCING WITH BED PREPARATION.
- 2. STAKE ALL TREE LOCATIONS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO DIGGING TREE PITS.
- ALL WEEDS AND GRASSES FROM PLANTING BEDS. IF BERMUDA GRASS IS PRESENT, IT SHALL BE ERADICATED BY APPROVED MEANS.
 STEEL EDGING SHALL BE 3/16" X 4" STEEL LANDSCAPE EDGING WITH STEEL STAKES AS MANUFACTURED BY PRO STEEL; FORT WORTH, TEXAS.
- 5. WITHIN APPROVED BED AREAS, PREPARE SOIL BY ROTO-TILLING THREE INCHES (3") OF COMPOST (BACK TO NATURE SOIL CONDITIONER) OVER THE ENTIRE BED AREA TO A DEPTH OF SIX INCHES
- (6").
- 6. SPREAD AN EVEN THREE INCHES (3") LAYER OF MULCH WITHIN ALL TREE WELLS. 7. ON ALL TREES TOP SIX INCHES (6") OF BACKFILL SHALL CONSIST OF A 1:1 MIXTURE OF COMPOST
- 8. AROUND ALL TREES FORM A CIRCULAR RING FREE OF VEGETATION. CIRCLE SHALL BE TRUE IN
- FORM AND CENTERED ON TREE. 9. ALL TREES SHALL BE STAKED WITH TWO (2) GREEN METAL SPLIT TEE FENCE POSTS AND TIED
- WITH WIRE THROUGH THE HOSE AS PER DETAIL. IO.APPLY OSMOCOTE AT A RATE OF 1/2 POUND PER TREE AND I POUND PER 100 SQUARE FEET TO SHRUB AND GROUNDCOVER PLANTING BEDS.

SODDING NOTES

- . REFER TO PROJECT MANUAL FOR FURTHER SPECIFICATIONS. 2. ALL NETTING TO BE REMOVED FROM SOD DURING INSTALLATION.
- 3. FINE GRADE LAWN AREAS TO SMOOTH, EVEN SURFACE WITH A LOOSE, UNIFORMLY FINE TEXTURE. FLOAT SMOOTH TO REMOVE RIDGES AND FILL DEPRESSIONS AS REQUIRED TO REMOVE RIDGES AND FILL DEPRESSIONS AS REQUIRED TO DRAIN.
- 4. APPLY APPROVED FERTILIZER ON FINISH GRADE PRIOR TO SOD INSTALLATION AT A RATE OF ONE (1) POUND OF ACTUAL NITROGEN PER 1000 SQUARE FEET.
- 5. ON 3:1 SLOPES OR GREATER SOD SHALL BE INSTALLED PERPENDICULAR TO SLOPE AND SECURED WITH APPROVED WOOD STAKES AS NEEDED TO PREVENT SOD FROM SLOUGHING OFF SLOPES.
- 6. THE SITE IS TO BE KEPT CLEAN AND ORDERLY. ALL TRASH, INCLUDING DEBRIS FROM REMOVING WEEDS OR ROCKS FROM SODDED AREAS, SHALL BE REMOVED FROM THE SITE AS WORK PROGRESSES. ALL PAVED AREAS SHALL BE KEPT CLEAN BY HOSING AND/OR SWEEPING.
- 7. CONTRACTOR IS RESPONSIBLE FOR SOLID SODDING ALL AREAS DISTURBED DURING
- CONSTRUCTION OPERATIONS. 8. LAY SOD TO FORM A SOLID MASS TIGHTLY-FITTED JOINTS. DO NOT OVERLAY EDGES. STAGGER
- STRIPS TO OFFSET JOINTS IN ADJACENT COURSES. 9. WATER SOD LIGHTLY AND THEN ROLL WITH A WATER FILLED LAWN ROLLER TO ENSURE CONTACT WITH SUBGRADE AND TO INSURE A SMOOTH SURFACE FREE OF CLUMPS AND DEPRESSIONS.

NATIVE SEED NOTES

- BEFORE PLANTING, CONTRACTOR MUST COMPACT TOPSOIL TO 85% AND REMOVE ALL OTHER VEGETATION THAT MAY BE PRESENT, SUCH AS OTHER GRASSES OR BROADLEAVED WEEDS. 2. SEED INSTALLATION IS TO OCCUR FROM FALL TO EARLY SPRING OR AS RECOMMENDED BY SUPPLIER. 3. SEED IS TO BE INSTALLED USING THE NO-TILL DRILL METHOD IN ALL AREAS. 4. SEED IS TO BE INSTALLED PER RATE BELOW.
- 5. FOR ANY ADDITIONAL INFORMATION ON NATIVE GRASS INSTALLATION, CONTRACTOR IS TO REFER TO THE NATURAL RESOURCES CONSERVATION SERVICE (NRCS): ESTABLISHING NATIVE GRASSES RECOMMENDATIONS.

NATIVE SEED PRODUCT INFO

NATIVE TRAIL MIX @ ILBS/I.0005.F + BIG BLUE@ 4LBS/ACRE, INDIAN GRASS@ 3LBS/ACRE, PRAIRE DROPSEED@ I/4LBS/ACRE, SWITCH GRASS@I/2LBS/ACRE.

PROVIDED BY NATIVE AMERICAN SEED, OR APPROVED EQUAL JUNCTION, TX

PH: 1(800)728-4045 WEB WWW.SEEDSOURCE.COM

EMAIL: INFO@SEEDSOURCE.COM

LANDSCAPE MATERIALS INFO

DECOMPOSED GRANITE AND LANDSCAPE BOULDERS

MINICK MATERIALS OR EQUAL 6665 NORTH INTERSTATE DRIVE NORMAN, OK 13069 PHONE: 405/329-2458 CONTACT: TIM SHANAHAN

SYNTHETIC TURF = PLAYGROUND GRASS ULTRA

FOREVERLAWN TULSA OR EQUAL 5722 E. 110TH ST. TULSA, OK 74137 PHONE: 918/877-8619 CONTACT: ROSS SPENCER

POURED-IN-PLACE RUBBERIZED SURFACING

HAPPY PLAYGROUNDS 8601 S. OXFORD AVE., TULSA, OK 14131 PHONE: (918) 691-8245 CONTACT: DANIEL COLLING WWW.HAPPYPLAYGROUNDS.COM

*ALL COLORS FOR PRODUCTS TO BE SELECTED DURING THE SUBMITTAL PROCESS.



LANDSCAPE ARCHITECTURE • RECREATIONAL DESIGN • LAND PLANNING 5314 S. YALE AVE., SUITE 710, TULSA, OK 74135 918.628.1255 918.628.1256 FAX WWW.PLANNINGDESIGNGROUP.COM

PROJECT INFORMATION

PROJECT ADDRESS:

| 801 E Alameda St. Norman, OK 73069 | | |
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| PROJECT NO. | | |
| DATE | 11-02-23 | |
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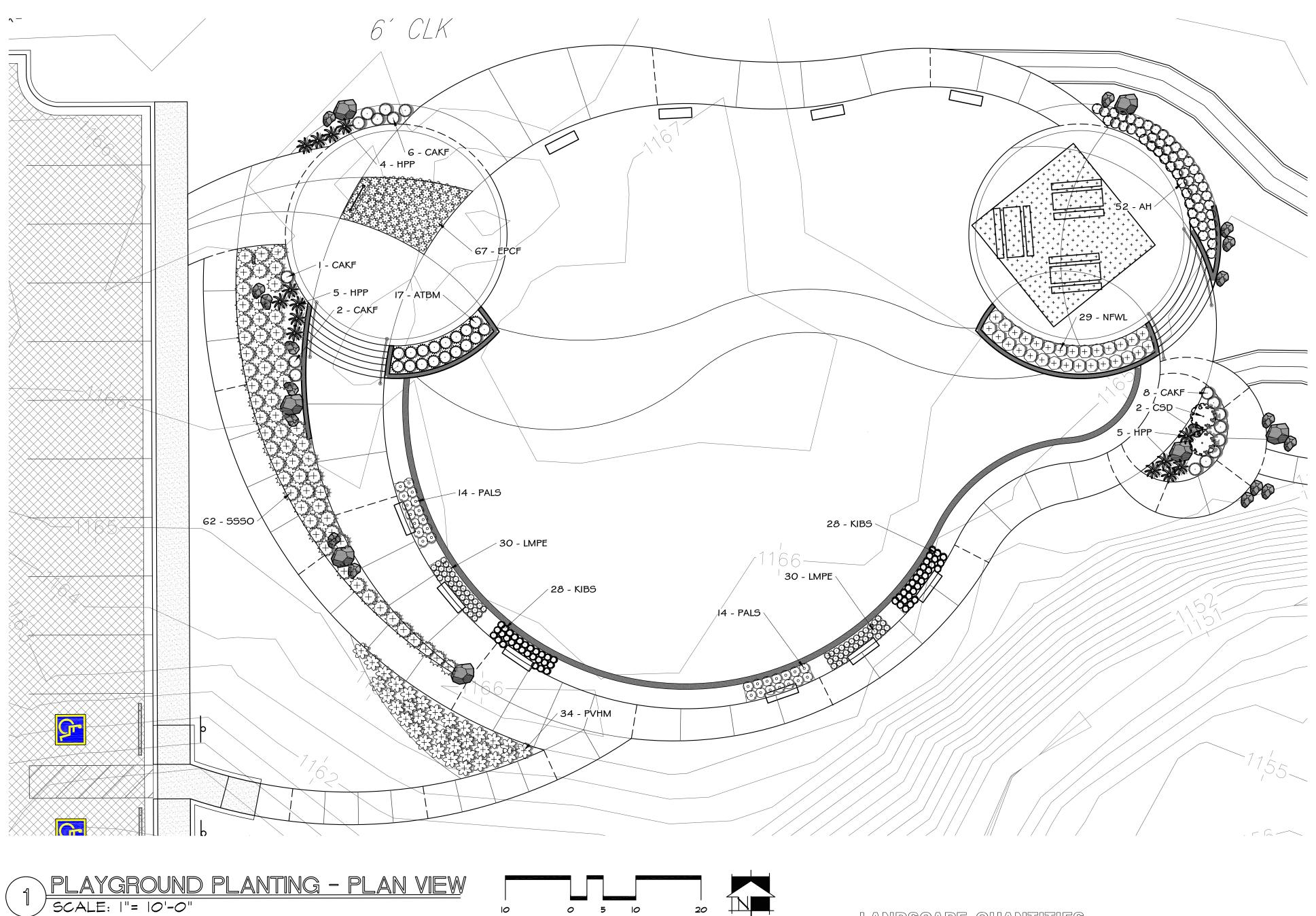
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OWNER:

CITY OF NORMAN





LANDSCAPE QUANTITIES

| | | | - |
|--------|--|----------|---------|
| SYMBOL | DESCRIPTION | aty | |
| LS-107 | PRO-STEEL BED EDGING - 3/16"×4" | 114 LF | 11/L9-3 |
| STMBOL | DESCRIPTION | aty | |
| | CEDAR MULCH 4" DEPTH IN BEDS 1/2 BAG PER TREE | 14.52 CY | |
| | BACK TO NATURE 4" DEPTH IN BEDS 1/2 BAG PER TREE | 14.52 CY | |

| CODE | QTY | BOTANICAL NAME | COMMON NAME | SIZE | CONTAINER | |
|--------|-----|--|-----------------------------------|---------|-----------|----------|
| TREES | | | | | | |
| uc | 3 | ULMUS CRASSIFOLIA | CEDAR ELM | 4" CAL. | B\$B | |
| CODE | QTY | BOTANICAL NAME | COMMON NAME | SIZE | CONTAINER | SPACING |
| SHRUBS | | | | | | |
| AH | 52 | AMSONIA HUBRICHTII | ARKANSAS BLUESTAR | 1 GAL. | POT | 18" O.C. |
| ATBM | 17 | ASCLEPIAS TUBEROSA | BUTTERFLY MILKWEED | 1 GAL. | POT | 24" O.C. |
| CAKF | 17 | CALAMAGROSTIS X ACUTIFLORA 'KARL FORESTER' | KARL FORESTER GRASS | 3 GAL. | POT | 24" O.C. |
| CTTV | 14 | CAMPSIS X TAGLIABUANA 'HOMR' TM | MADAME ROSY TRUMPET VINE | 1 GAL. | POT | 18" O.C. |
| CMR | 23 | COREOPSIS X 'MERCURY RISING' | MERCURY RIGING TICKSEED | 1 GAL. | POT | 12" O.C. |
| CSD | 2 | CORNUS STOLONIFERA | ARCTIC FIRE RED TWIG DOGWOOD | 5 GAL. | POT | 48″ O.C |
| EPKK | 31 | ECHINACEA PURPUREA 'KIM'3 KNEE HIGH' | KIM'S KNEE HIGH CONEFLOWER | 1 GAL. | POT | 24" O.C. |
| EPCF | 67 | ECHINACEA PURPUREA `PA6102911` TM | POWWOW WILD BERRY CONEFLOWER | 1 GAL. | POT | 18" O.C. |
| EHHR | 53 | EQUISETUM HYEMALE | HORSETAIL REED | 1 GAL. | POT | 18" O.C. |
| GASC | 32 | GAILLARDIA ARISTATA 'SPINTOP COPPER SUN' | SPINTOP COPPER SUN BLANKET FLOWER | 1 GAL. | POT | 12" O.C. |
| GLWB | 40 | GAURA LINDHEIMERI WHIRLING BUTTERFLIES | WHIRLING BUTTERFLIES GAURA | 1 GAL. | POT | 18" O.C. |
| HPP | 14 | HESPERALOE PARVIFLORA 'PERPA' PP #21729 | BRAKELIGHTS RED YUCA | 5 GAL. | POT | 30" O.C |
| KIBS | 56 | KALIMERIS INCISA 'BLUE STAR' | BLUE STAR JAPANESE ASTER | 1 GAL. | POT | 12" O.C. |
| KTRP | 51 | KNIPHOFIA TRIANGULARIS | DWARF RED HOT POKER | 1 GAL. | POT | 12" O.C. |
| LMPE | 60 | LIRIOPE MUSCARI EXC 051 TM | PURPLE EXPLOSION LILYTURF | 1 GAL. | POT | 12" O.C. |
| NFWL | 29 | NEPETA \times FAASSENII 'WALKER'S LOW' | WALKER'S LOW CATMINT | 3 GAL. | POT | 24" O.C. |
| PVHM | 34 | PANICUM VIRGATUM 'HEAVY METAL' | HEAVY METAL SWITCH GRASS | 3 GAL. | POT | 30" O.C |
| PALS | 28 | PEROVSKIA ATRIPLICIFOLIA 'LITTLE SPIRE' | LITTLE SPIRE RUSSIAN SAGE | 1 GAL. | POT | 18" O.C. |
| 9990 | 62 | SCHIZACHYRIUM SCOPARIUM 'STANDING OVATION' | LITTLE BLUESTEM | 3 GAL. | POT | 30" O.C |
| SHPD | 41 | SPOROBOLUS HETEROLEPIS | PRAIRIE DROPSEED | I GAL | POT | 24" O.C. |

GENERAL LANDSCAPE NOTES

H:HEIGHT, S:SPREAD CAL:CALIPER, O.C.: ON CENTER, B&B:BALLED & BURLAPPED, GAL:GALLON, ABH: AT BREAST HEIGHT

THE MATERIAL LIST IS PROVIDED FOR THE CONTRACTOR'S CONVENIENCE. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR FIGURING ALL QUANTITIES FROM THE PLANTING PLAN AND COVERAGES FOR ALL BED AREAS. WHEN DISCREPANCIES OCCUR BETWEEN THE MATERIAL LIST AND THE PLANTING PLAN, THE PLANTING PLAN SUPERSEDES THE MATERIAL LIST IN ALL CASES. THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR ALL PLANTS AND COVERAGE OF BED AREAS ON THE PLANTING PLAN. TREES IN THE LANDSCAPE MATERIAL LIST ARE TO BE OBTAINED FROM SPECIFIC VENDORS OR APPROVED EQUAL; REFER TO APPROVED VENDER LIST BELOW.

TREE NOTES

. ALL TREES TO BE WATERED WITH SLOW DRIP 20 GALLON WATERING BAG. CONTRACTOR TO INCLUDE WATERING BAGS IN BID. CONTRACTOR RESPONSIBLE FOR INSTALLING WATERING BAGS.

PLANTING NOTES

- . OUTLINE ALL PLANTING BEDS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO COMMENCING WITH BED PREPARATION. 2. STAKE ALL TREE LOCATIONS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO DIGGING
- TREE PITS.
- TREE PITS.
 REMOVE ALL WEEDS AND GRASSES FROM PLANTING BEDS. IF BERMUDA GRASS IS PRESENT, IT SHALL BE ERADICATED BY APPROVED MEANS.
 STEEL EDGING SHALL BE 3/16" X 4" STEEL LANDSCAPE EDGING WITH STEEL STAKES AS MANUFACTURED BY PRO STEEL; FORT WORTH, TEXAS.
 WITHIN APPROVED BED AREAS, PREPARE SOLL BY ROTO-TILLING THREE INCHES (3") OF COMPOST AND AREAS A
- (BACK TO NATURE SOIL CONDITIONER) OVER THE ENTIRE BED AREA TO A DEPTH OF SIX INCHES
- (6"). 6. SPREAD AN EVEN THREE INCHES (3") LAYER OF MULCH WITHIN ALL TREE WELLS. 7. ON ALL TREES TOP SIX INCHES (6") OF BACKFILL SHALL CONSIST OF A 1:1 MIXTURE OF COMPOST
- TO SOIL. 8. AROUND ALL TREES FORM A CIRCULAR RING FREE OF VEGETATION. CIRCLE SHALL BE TRUE IN FORM AND CENTERED ON TREE.
- 9. ALL TREES SHALL BE STAKED WITH TWO (2) GREEN METAL SPLIT TEE FENCE POSTS AND TIED
- WITH WIRE THROUGH THE HOSE AS PER DETAIL. 10.APPLY OSMOCOTE AT A RATE OF 1/2 POUND PER TREE AND I POUND PER 100 SQUARE FEET TO SHRUB AND GROUNDCOVER PLANTING BEDS.

SODDING NOTES

- REFER TO PROJECT MANUAL FOR FURTHER SPECIFICATIONS. 2. ALL NETTING TO BE REMOVED FROM SOD DURING INSTALLATION. 3. FINE GRADE LAWN AREAS TO SMOOTH, EVEN SURFACE WITH A LOOSE, UNIFORMLY FINE TEXTURE.
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- ONE (1) POUND OF ACTUAL NITROGEN PER 1000 SQUARE FEET. 5. ON 3:I SLOPES OR GREATER SOD SHALL BE INSTALLED PERPENDICULAR TO SLOPE AND SECURED
- WITH APPROVED WOOD STAKES AS NEEDED TO PREVENT SOD FROM SLOUGHING OFF SLOPES.
- 7. CONTRACTOR IS RESPONSIBLE FOR SOLID SODDING ALL AREAS DISTURBED DURING CONSTRUCTION OPERATIONS.
- 8. LAY SOD TO FORM A SOLID MASS TIGHTLY-FITTED JOINTS. DO NOT OVERLAY EDGES. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES.
- 9. WATER SOD LIGHTLY AND THEN ROLL WITH A WATER FILLED LAWN ROLLER TO ENSURE CONTACT WITH SUBGRADE AND TO INSURE A SMOOTH SURFACE FREE OF CLUMPS AND DEPRESSIONS.

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*ALL COLORS FOR PRODUCTS TO BE SELECTED DURING THE SUBMITTAL PROCESS.



6. THE SITE IS TO BE KEPT CLEAN AND ORDERLY. ALL TRASH, INCLUDING DEBRIS FROM REMOVING WEEDS OR ROCKS FROM SODDED AREAS, SHALL BE REMOVED FROM THE SITE AS WORK PROGRESSES. ALL PAVED AREAS SHALL BE KEPT CLEAN BY HOSING AND/OR SWEEPING.

PROJECT INFORMATION

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| 801 E Alameda St. Norman, OK 73069 | | | | |
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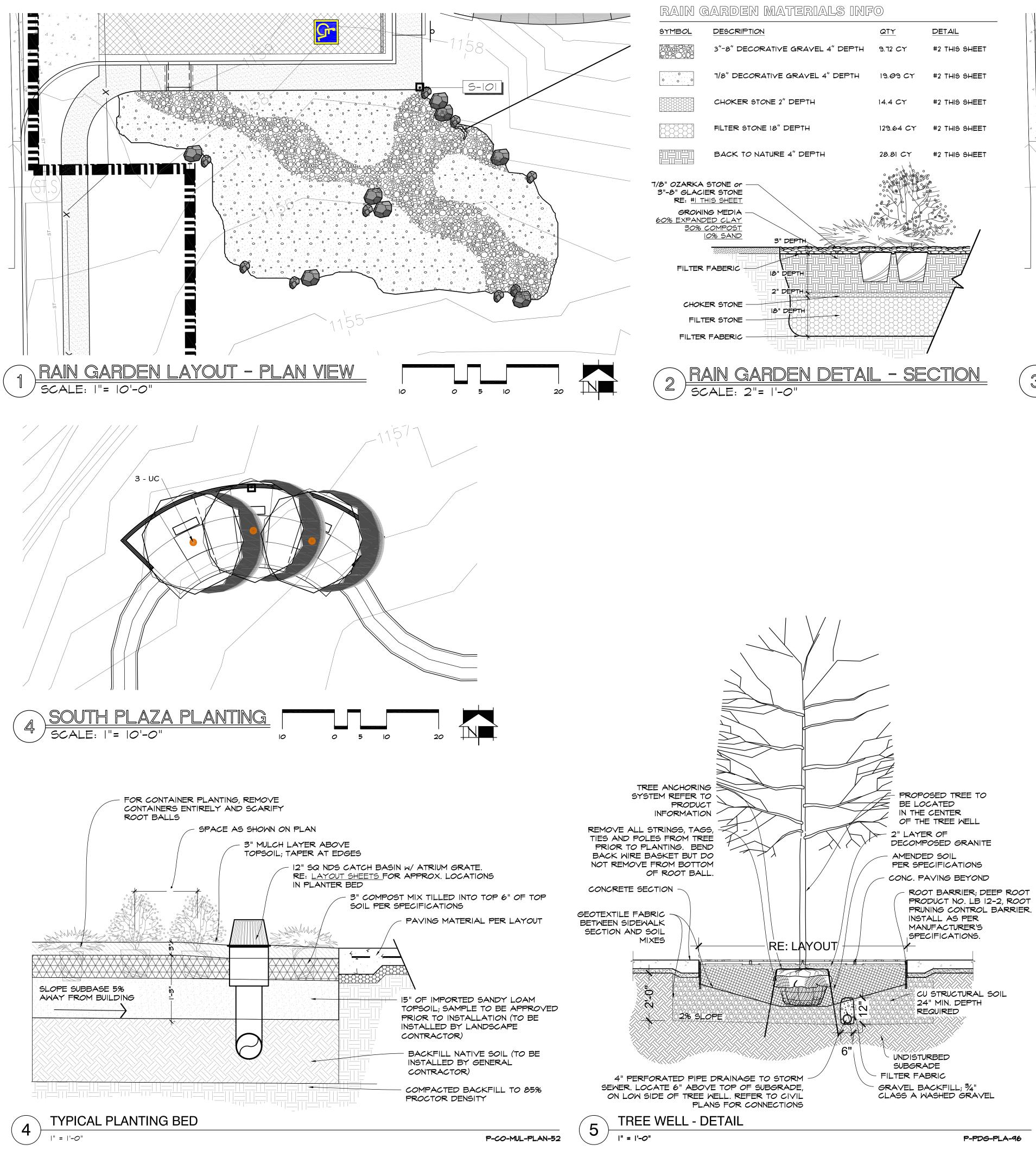


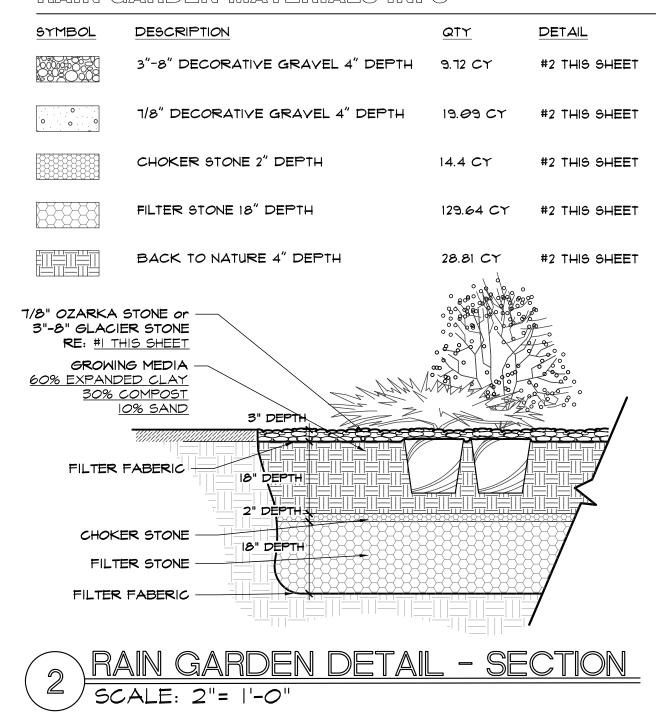
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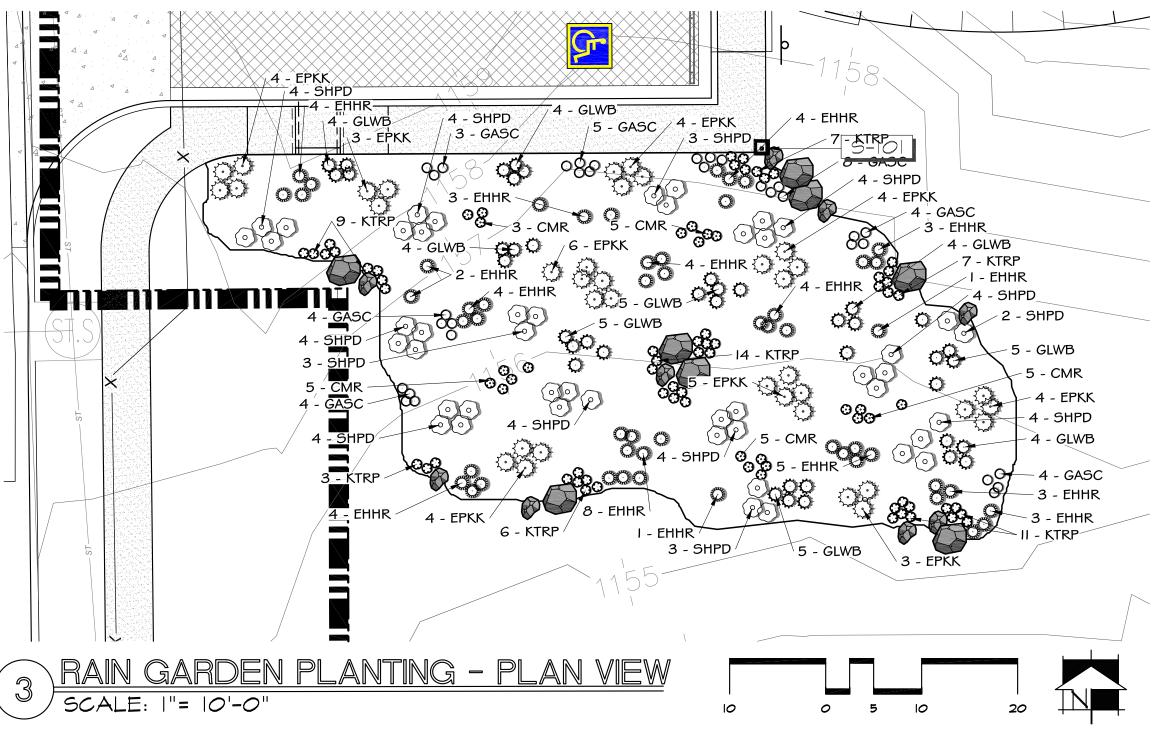
OWNER:

CITY OF NORMAN









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| CODE | QTY | BOTANICAL NAME | COMMON NAME | SIZE | CONTAINER | |
| TREES | | | | | | |
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| HPP | 14 | HESPERALOE PARVIFLORA 'PERPA' PP #21129 | BRAKELIGHTS RED YUCA | 5 GAL. | POT | 30" O.C. |
| KIBS | 56 | KALIMERIS INCISA 'BLUE STAR' | BLUE STAR JAPANESE ASTER | 1 GAL. | POT | 12" O.C. |
| KTRP | 51 | KNIPHOFIA TRIANGULARIS | DWARF RED HOT POKER | 1 GAL. | POT | 12" O.C. |
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| SHPD | 41 | SPOROBOLUS HETEROLEPIS | PRAIRIE DROPSEED | 1 GAL. | POT | 24" O.C. |

LANDSCAPE MATERIALS INFO

DECOMPOSED GRANITE, BOULDERS AND RAIN GARDEN ROCK

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*ALL COLORS FOR PRODUCTS TO BE SELECTED DURING THE SUBMITTAL PROCESS.

landscape Quantities

| STMBOL | DESCRIPTION | QTY |
|--------|---------------------------------|---------|
| LS-107 | PRO-STEEL BED EDGING - 3/16"×4" | 114 LF |
| SYMBOL | DESCRIPTION | QTY |
| | CEDAR MULCH 4" DEPTH IN BEDS | 14.52 C |

1/2 BAG PER TREE

BACK TO NATURE 4" DEPTH IN BEDS 1/2 BAG PER TREE

GENERAL LANDSCAPE NOTES

H:HEIGHT, S:SPREAD CAL:CALIPER, O.C.: ON CENTER, B&B:BALLED & BURLAPPED, GAL:GALLON, ABH: AT BREAST HEIGHT THE MATERIAL LIST IS PROVIDED FOR THE CONTRACTOR'S CONVENIENCE. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR FIGURING ALL QUANTITIES FROM THE PLANTING PLAN AND COVERAGES FOR ALL BED AREAS. WHEN DISCREPANCIES OCCUR BETWEEN THE MATERIAL LIST AND THE PLANTING PLAN, THE PLANTING PLAN SUPERSEDES THE MATERIAL LIST IN ALL CASES. THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR ALL PLANTS AND COVERAGE OF BED AREAS ON THE PLANTING PLAN. TREES IN THE LANDSCAPE MATERIAL LIST ARE TO BE OBTAINED FROM SPECIFIC VENDORS OR APPROVED EQUAL; REFER TO APPROVED VENDER LIST BELOW.

TREE NOTES

. ALL TREES TO BE WATERED WITH SLOW DRIP 20 GALLON WATERING BAG. CONTRACTOR TO INCLUDE WATERING BAGS IN BID. CONTRACTOR RESPONSIBLE FOR INSTALLING WATERING BAGS.

PLANTING NOTES

- I. OUTLINE ALL PLANTING BEDS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO COMMENCING WITH BED PREPARATION.
- 2. STAKE ALL TREE LOCATIONS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO DIGGING TREE PITS.
- 3. REMOVE ALL WEEDS AND GRASSES FROM PLANTING BEDS. IF BERMUDA GRASS IS PRESENT, IT SHALL BE ERADICATED BY APPROVED MEANS.
- 4. STEEL EDGING SHALL BE 3/16" X 4" STEEL LANDSCAPE EDGING WITH STEEL STAKES AS MANUFACTURED BY PRO STEEL; FORT WORTH, TEXAS.
- 5. WITHIN APPROVED BED AREAS, PREPARE SOIL BY ROTO-TILLING THREE INCHES (3") OF COMPOST (BACK TO NATURE SOIL CONDITIONER) OVER THE ENTIRE BED AREA TO A DEPTH OF SIX INCHES
- (6"). 6. SPREAD AN EVEN THREE INCHES (3") LAYER OF MULCH WITHIN ALL TREE WELLS. 7. ON ALL TREES TOP SIX INCHES (6") OF BACKFILL SHALL CONSIST OF A 1:1 MIXTURE OF COMPOST
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14.52 CY

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- REFER TO PROJECT MANUAL FOR FURTHER SPECIFICATIONS. 2. ALL NETTING TO BE REMOVED FROM SOD DURING INSTALLATION. 3. FINE GRADE LAWN AREAS TO SMOOTH, EVEN SURFACE WITH A LOOSE, UNIFORMLY FINE TEXTURE. FLOAT SMOOTH TO REMOVE RIDGES AND FILL DEPRESSIONS AS REQUIRED TO REMOVE RIDGES AND FILL DEPRESSIONS AS REQUIRED TO DRAIN.
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PROJECT INFORMATION PROJECT ADDRESS: 801 E Alameda St. Norman, OK 73069 PROJECT NO. 1-02-23 DATE DRAWN BY CHECKED BY

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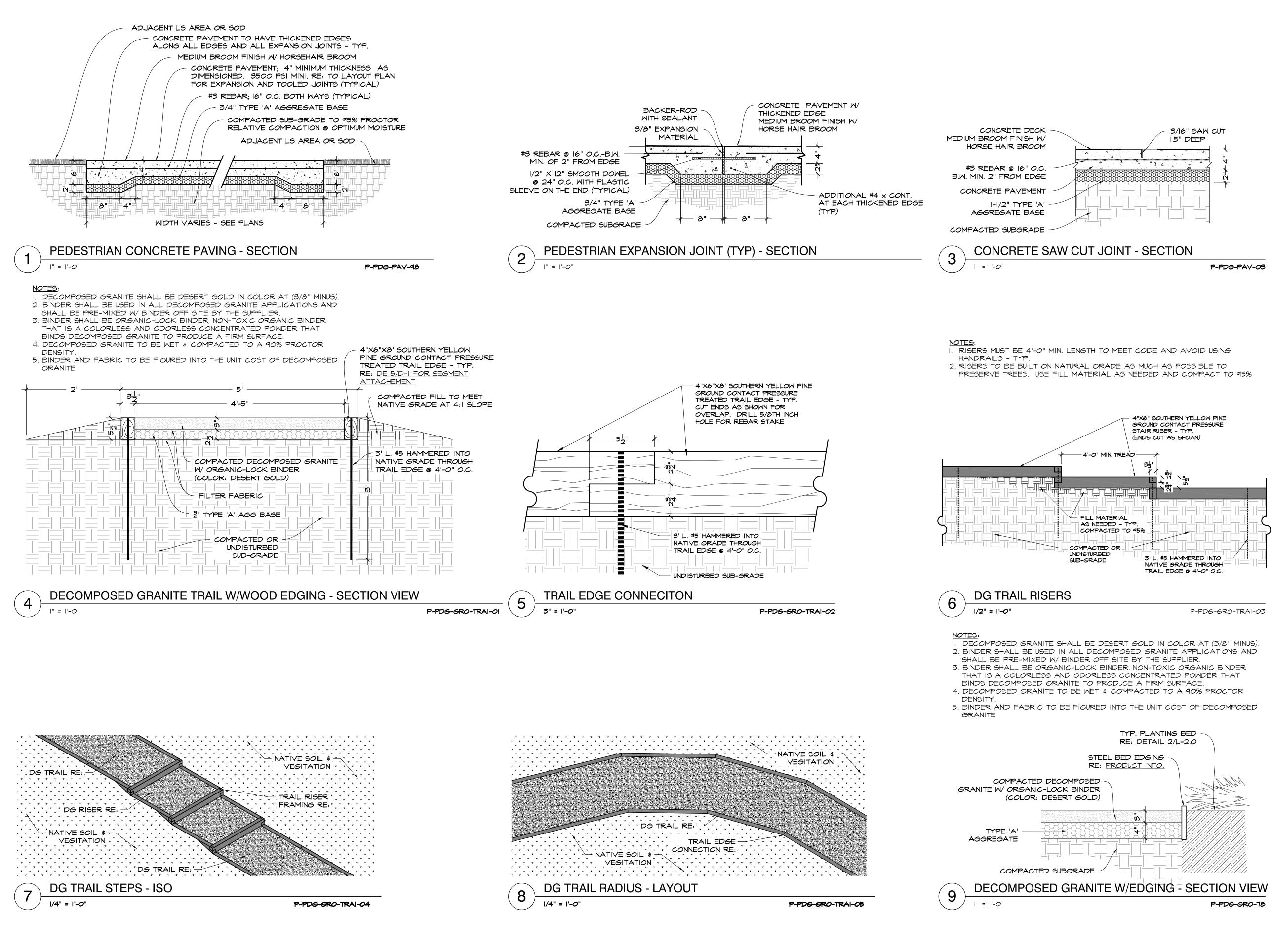
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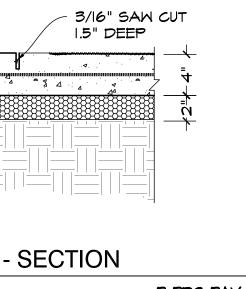
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OWNER:

CITY OF NORMAN



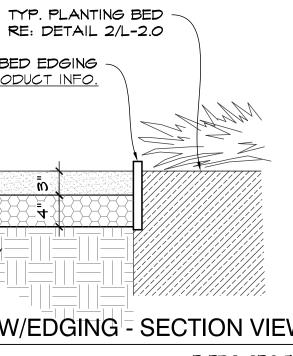




P-PDG-PAV-03

4"X6" SOUTHERN YELLOW PINE GROUND CONTACT PRESSURE STAIR RISER - TYP. (ENDS CUT AS SHOWN) . + n +=n <u>↓</u>₩4 1 π 3' L. #5 HAMMERED INTO NATIVE GRADE THROUGH

P-PDG-GRO-TRAI-03



P-PDG-GRO-78



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801 E Alameda St. Norman, OK 73069 PROJECT NO. 1-02-23 DATE DRAWN BY CHECKED BY

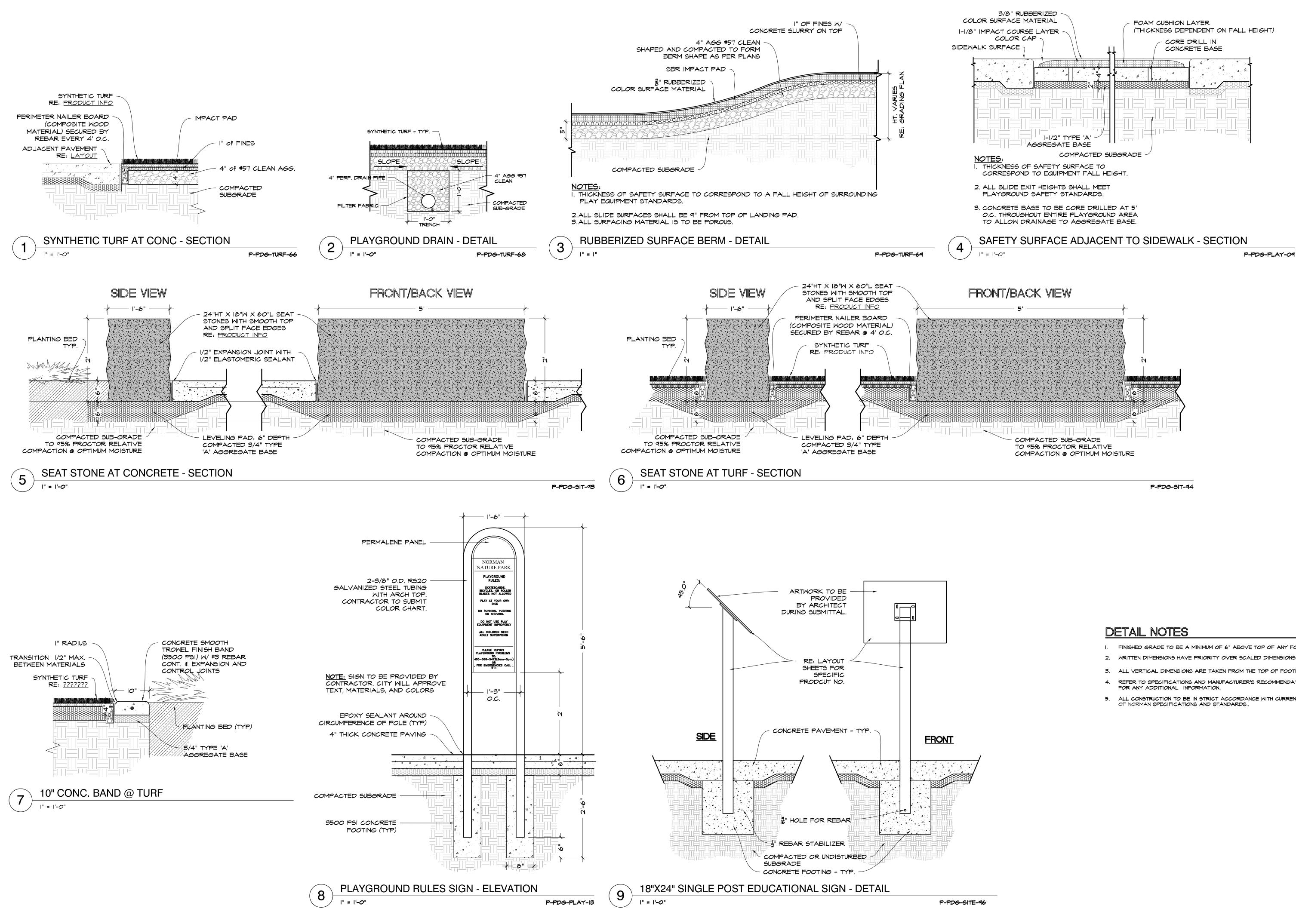
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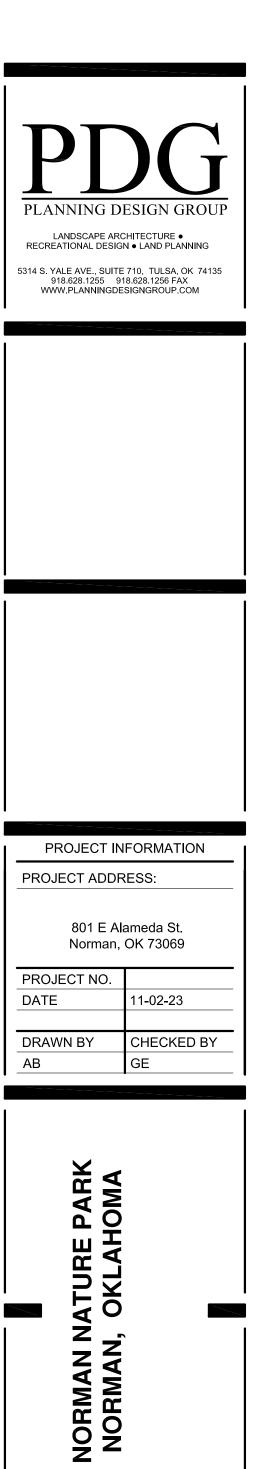
OWNER:

CITY OF NORMAN





- I. FINISHED GRADE TO BE A MINIMUM OF 6" ABOVE TOP OF ANY FOOTING.
- 2. WRITTEN DIMENSIONS HAVE PRIORITY OVER SCALED DIMENSIONS.
- 3. ALL VERTICAL DIMENSIONS ARE TAKEN FROM THE TOP OF FOOTING.
- 4. REFER TO SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS
- 5. ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH CURRENT CITY

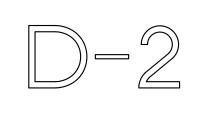


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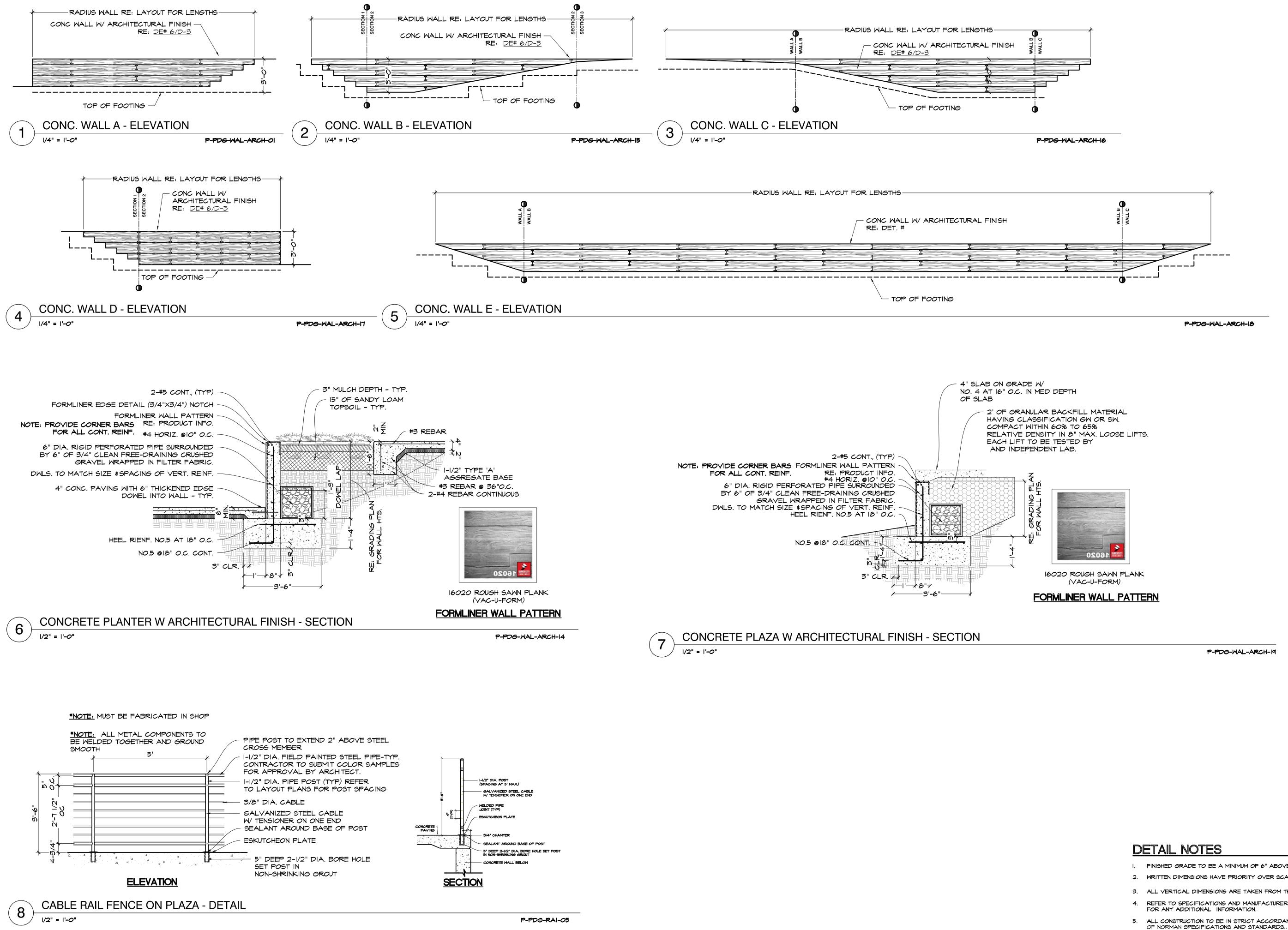
OWNER:

CITY OF NORMAN

201 W Gray St, Norman, OK 73069



CONSTRUCTION DETAILS



P-PDG-WAL-ARCH-18

P-PDG-WAL-ARCH-19

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- 4. REFER TO SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS

5. ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH CURRENT CITY

PLANNING DESIGN GROUI LANDSCAPE ARCHITECTURE • RECREATIONAL DESIGN • LAND PLANNING 5314 S. YALE AVE., SUITE 710, TULSA, OK 74135 918.628.1255 918.628.1256 FAX WWW.PLANNINGDESIGNGROUP.COM

PROJECT INFORMATION PROJECT ADDRESS:

801 E Alameda St. Norman, OK 73069 PROJECT NO. DATE 1-02-23 DRAWN BY CHECKED BY ΔR

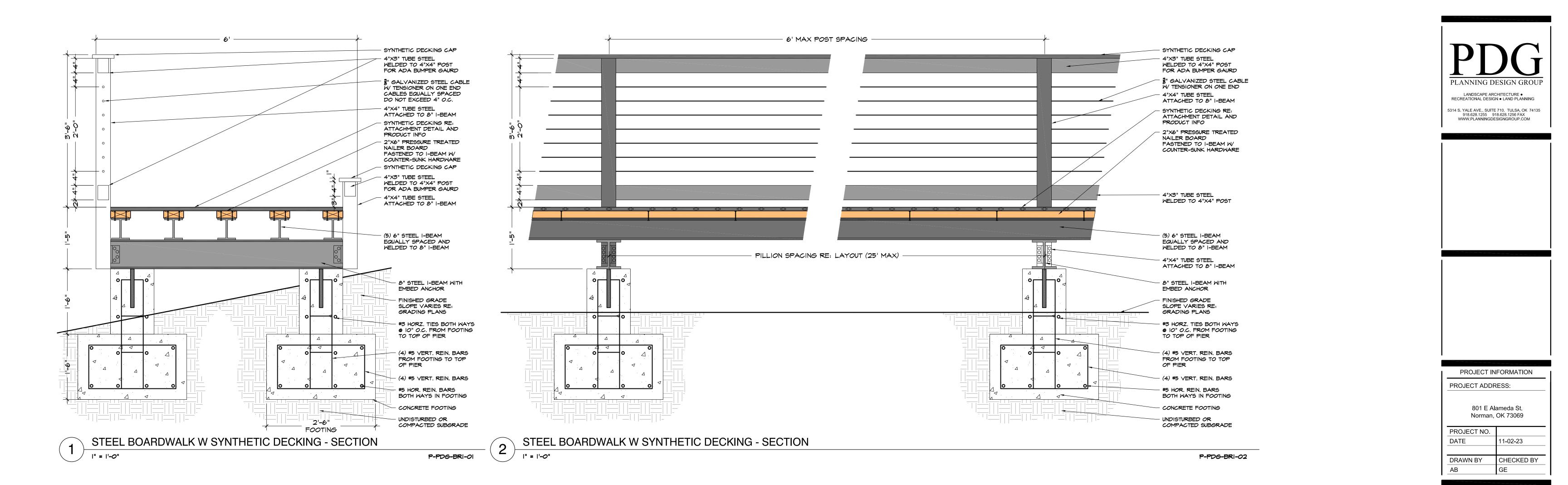


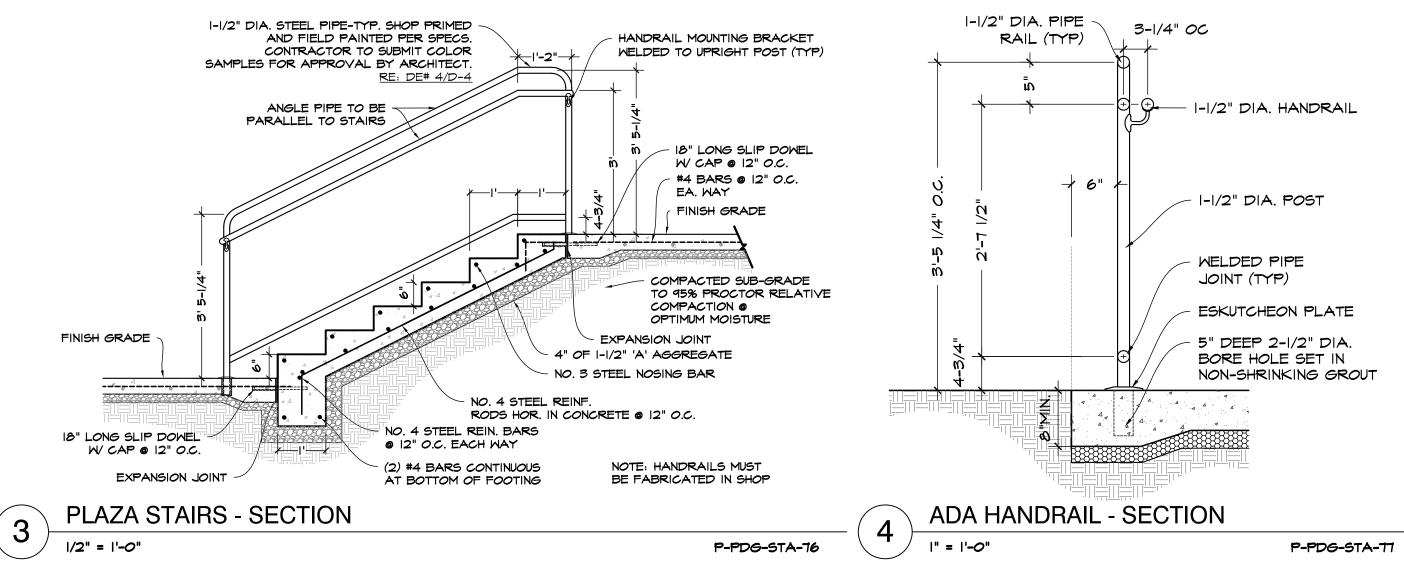
| ISSUE/ REVISIONS | | | | | |
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| 05/13/24 | 65% Review Set | | | | |
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OWNER:

CITY OF NORMAN







DETAIL NOTES

- I. FINISHED GRADE TO BE A MINIMUM OF 6" ABOVE TOP OF ANY FOOTING.
- 2. WRITTEN DIMENSIONS HAVE PRIORITY OVER SCALED DIMENSIONS.
- 3. ALL VERTICAL DIMENSIONS ARE TAKEN FROM THE TOP OF FOOTING.
- 4. REFER TO SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS FOR ANY ADDITIONAL INFORMATION.
- 5. ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH CURRENT CITY OF NORMAN SPECIFICATIONS AND STANDARDS ..



CITY OF NORMAN

201 W Gray St, Norman, OK 73069

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ISSUE/ REVISIONS

05/13/24 65% Review Set

OWNER:

STRUCTURAL SPECIAL INSPECTION REQUIREMENTS

INTERNATIONAL BUILDING CODE (IBC) SECTION 1704 REQUIRES A SPECIAL INSPECTOR TO REPORT RESULTS OF OBSERVATION AND/OR TESTING OF THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE FOLLOWING INSPECTION REQUIREMENTS SHALL COMPLIMENT INSPECTIONS SPECIFIED ELSEWHERE:

- 1. THE OWNER SHALL RETAIN THE SERVICES OF AN APPROVED AGENCY TO MAKE AVAILABLE A SPECIAL INSPECTOR WHO SHALL PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK INDICATED IN THE FOLLOWING SPECIAL INSPECTION TABLES. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE. TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- 2. THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF INSPECTIONS PER SECTION 1704 REQUIREMENTS AND SHALL SUBMIT COPIES OF INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE OWNER, AND THE STRUCTURAL ENGINEER-OF-RECORD.
- 3. IN ACCORDANCE WITH SECTION 1704.2, THESE SPECIAL INSPECTION REQUIREMENTS ALSO APPLY TO STRUCTURAL LOAD BEARING MEMBERS OR ASSEMBLIES WHERE FABRICATION IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP.
- 4. REFER TO THE "GENERAL NOTES" FOR DETAILED REQUIREMENTS PERTAINING TO THE TYPES OF WORK INDICATED IN THE FOLLOWING SPECIAL INSPECTION TABLES.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS (IBC 2018 TABLE 1705.6)

| TYPE | CONTINUOUS SPECIAL INSPECTION | PERIODIC SPECIAL INSPECTION |
|---|----------------------------------|-----------------------------|
| 1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. | _ | Х |
| 2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. | _ | Х |
| 3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS. | - | Х |
| 4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL. | Х | - |
| 5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY. | _ | х |

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION (IBC 2018 TABLE 1705.3)

| | | | | | 00.0) |
|-----|--|-------------------------------------|-----------------------------------|--|-----------------------------------|
| | TYPE | CONTINUOUS SPECIAL INSPECTION | PERIODIC SPECIAL INSPECTION | REFERENCED STANDARD ^a | IBC REFERENCE |
| 1. | INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT. | - | x | ACI 318: CH. 20, 25.2, 25.3, 26.5.1-26.5.3 | 1908.4 |
| 2. | REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706; B. INSPECT SINGLE-PASS FILLET WELDS, | - | x | AWS D1.4 ACI 318: 26.5.4 | - |
| | MAXIMUM 5/16"; AND C. INSPECT ALL OTHER WELDS. | - X | X | | |
| 3. | INSPECT ANCHORS CAST IN CONCRETE. | - | x | ACI 318: 17.8.2 | _ |
| 4. | INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.b | | | | |
| | A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. | х | - | ACI 318: 17.8.2.4 | - |
| | B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A. | - | x | ACI 318: 17.8.2 | - |
| 5. | VERIFY USE OF REQUIRED DESIGN MIX. | - | x | ACI 318: CH. 19, 26.4.3, 26.4.4 | 1904.1, 1904.2, 1908.2, 1908.3 |
| 6. | PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. | х | - | ASTM C172 ASTM C31 ACI 318: 26.4.5, 26.12 | 1908.10 |
| 7. | INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES. | x | - | ACI 318: 26.4.5 | 1908.6, 1908.7, 1908.8 |
| 8. | VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. | - | x | ACI 318: 26.4.7-26.4.9 | 1908.9 |
| 9. | INSPECT PRESTRESSED CONCRETE FOR: A. APPLICATION OF PRESTRESSING FORCES; AND B. GROUTING OF BONDED PRESTRESSING TENDONS. | x x | - | ACI 318: 26.9.2.1 ACI 318: 26.9.2.3 | - |
| 10. | INSPECT ERECTION OF PRECAST CONCRETE MEMBERS. | - | x | ACI 318: CH. 26.8 | |
| 11. | VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS. | - | x | ACI 318: 26.10.2 | - |
| 12. | INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. | - | x | ACI 318: 26.10.1(B) | - |

WHERE APPLICABLE, SEE ALSO SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.

SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

- "PLUG".

OVERALL NOTES

1. THE CONSTRUCTION DOCUMENTS CONSIST OF THESE DRAWINGS AND A SEPARATE BOOK OF SPECIFICATIONS. THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY AND NEITHER IS MEANT TO STAND ALONE FOR ANY PORTION OF THE WORK DESCRIBED IN THE DOCUMENTS. IMMEDIATELY REPORT ANY DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS TO THE ARCHITECT AND THE STRUCTURAL ENGINEER OF RECORD.

2. PRIOR TO BEGINNING ANY WORK OR ORDERING ANY MATERIALS, THE CONTRACTOR SHALL COORDINATE THE STRUCTURAL DRAWINGS WITH THE DRAWINGS FROM THE ARCHITECT AND ALL OTHER TRADES. NOTIFY THE ARCHITECT AND THE STRUCTURAL ENGINEER OF RECORD OF ANY DISCREPANCIES OR POSSIBLE DEFICIENCIES.

3. PRIOR TO STARTING WORK, THE CONTRACTOR SHALL VERIFY THE EXISTING SITE CONDITIONS AND CONSTRAINTS AS WELL AS EXISTING BUILDING LOCATION, DIMENSIONS, AND ELEVATIONS, IF ANY.

4. THE CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. ALL TEMPORARY BRACING, SHORING, SUPPORTS, ETC. ARE THE RESPONSIBILITY OF THE CONTRACTOR.

5. NO FIELD REVISIONS OR MODIFICATIONS TO ANY STRUCTURAL COMPONENT SHALL BE PERFORMED WITHOUT PRIOR APPROVAL BY THE ENGINEER OF RECORD.

6. PLANS AND DETAILS SHALL NOT BE SCALED FOR DETERMINATION OF LENGTHS, QUANTITIES, OR CONFIGURATION OF MATERIALS.

FOUNDATION AND GEOTECHNICAL NOTES

1. WHERE UTILITY TRENCHES EXTEND BEYOND THE BUILDING PERIMETER OR THE WORK AREA, A MINIMUM 5' LENGTH OF THE UTILITY TRENCH SHALL BE BACKFILLED WITH COMPACTED, LOW-PERMEABILITY CLAY OR CLSM TO FORM A "PLUG" TO HELP PREVENT THE MIGRATION OF WATER UNDER THE BUILDING FOOTPRINT. PIPE BEDDING CONSISTING OF GRANULAR FILL SHALL NOT BE USED IN THE AREA OF THE

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING AND SHORING ALL FOUNDATION WALLS, GRADE BEAMS, AND FOOTINGS DURING BACKFILL AND COMPACTION PROCEDURES.

3. THE FOUNDATIONS SHALL EXTEND BELOW THE FROST LINE. THE BOTTOM OF FOUNDATION ELEMENTS MAY BE LOWERED AS REQUIRED TO ACHIEVE THE REQUIRED COVER.

4. THE FOUNDATION ELEMENTS FOR THIS BUILDING ARE DESIGNED BASED UPON THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT LISTED IN THE DESIGN CRITERIA. THE RECOMMENDATIONS LISTED IN THIS SECTION ARE AS NOTED IN THIS REPORT. ANY DISCREPANCIES BETWEEN THE GEOTECHNICAL REPORT AND THE RECOMMENDATIONS IN THIS SECTION SHALL BE IMMEDIATELY REPORTED TO THE STRUCTURAL ENGINEER OF RECORD.

5. AFTER REMOVAL OF ALL SURFACE VEGETATION, UNSUITABLE BEARING MATERIALS, AND PERFORMING REQUIRED CUTS, THE WORK AREA SHALL BE UNDERCUT AND THEN BE PROOFROLLED AS SPECIFIED IN THE GEOTECHNICAL REPORT. THE WORK AREA SHALL EXTEND A MINIMUM OF 5'-0" BEYOND THE BUILDING PERIMETER OR AS DEFINED IN THE GEOTECHNICAL REPORT, WHICHEVER IS MORE RESTRICTIVE.

6. AFTER PROOFROLLING AND COMPLETING ANY CORRECTIVE WORK, THE WORK AREA SHALL BE SCARIFIED, MOISTURE CONDITIONED AND COMPACTED. REFER TO THE GEOTECHNICAL REPORT FOR SCARIFICATION, MOISTURE, AND COMPACTION REQUIREMENTS.

7. SELECT FILL SHALL BE NON-EXPANSIVE, COHESIVE MATERIAL. REFER TO THE GEOTECHNICAL REPORT FOR SELECT FILL REQUIREMENTS.

. THE MINIMUM RECOMMENDED MOISTURE CONTENT SHALL BE MAINTAINED IN THE AREA OF THE BUILDING PAD UNTIL THE FLOOR SLAB IS CONSTRUCTED.

STRUCTURAL STEEL NOTES

1. U.N.O., FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH ANSI/AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS," EDITION REFERENCED IN THE DESIGN CRITERIA, AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES," EDITION REFERENCED IN THE DESIGN CRITERIA, AND THE STANDARDS OF THE AMERICAN WELDING SOCIETY.

2. ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED BY A FABRICATOR WITH EITHER AN AISC STD CERTIFICATION OR AN IAS AC172 CERTIFICATION. IF THE STEEL FABRICATOR DOES NOT HAVE THE REQUIRED CERTIFICATION, THE FABRICATOR SHALL PAY FOR THE "IN-PLANT" INSPECTIONS ASSOCIATED WITH THE SPECIAL INSPECTION REQUIREMENTS OF THE IBC CODE.

3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING MINIMUM

REQUIREMENTS, U.N.O.: a. W SHAPES ASTM A992 GRADE 50 Fy = 50 KSI ASTM A572 GRADE 50 b. HP SHAPES Fy = 50 KSI

. REFER TO THE SPECIFICATIONS FOR PAINTING AND SURFACE PREPARATION REQUIREMENTS. DO NOT PAINT DEFORMED BAR ANCHORS.

2. UNPAINTED STRUCTURAL STEEL MEMBERS PERMANENTLY EXPOSED TO THE ELEMENTS SHALL BE GALVANIZED. GALVANIZING SHALL CONFORM TO ASTM A123. ALL CONNECTIONS SHALL BE SEAL WELDED PRIOR TO GALVANIZING.

3. ALL BOLTED CONNECTIONS FOR STRUCTURAL STEEL MEMBERS SHALL CONSIST OF ASTM A325-N BOLTS, U.N.O.

4. ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STANDARDS. ALL SHOP AND FIELD WELDS SHALL USE E70XX ELECTRODES. ALL WELDS SHALL BE PERFORMED BY A CERTIFIED WELDER AND CONFORM TO AISC AND AWS STANDARDS. ALL SHOP AND FULL PENETRATION BUTT WELDS SHALL BE INSPECTED BY ULTRASONIC TESTING UNLESS PROHIBITED BY THE GEOMETRY OF THE CONNECTION. IF ULTRASONIC TESTING CANNOT BE PERFORMED. X-RAY TESTING SHALL BE USED AT THE APPROVAL OF THE ARCHITECT/ENGINEER OF RECORD. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

5. STRUCTURAL STEEL SHALL NOT BE SPLICED OTHER THAN WHERE NOTED ON THE DRAWINGS WITHOUT APPROVAL OF THE ENGINEER OF RECORD.

6. STEEL BEAMS SHALL BE ERECTED WITH THEIR NATURAL CAMBER UP.

CONCRETE NOTES

- 1. ALL REINFORCED CONCRETE SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", LATEST EDITION INCLUDING AMENDMENTS, AND ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", EDITION REFERENCED IN THE DESIGN CRITERIA.
- 2. TOLERANCES FOR CONCRETE MEMBERS AND COMPONENTS SHALL CONFORM TO ACI 117 "SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS."
- 3. DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL CONFORM TO ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."
- 4. U.N.O., CONCRETE SHALL CONSIST OF TYPE I, II, OR I/II PORTLAND CEMENT MEETING THE REQUIREMENTS OF ASTM C150 OR TYPE 1L PORTLAND LIME CEMENT MEETING THE REQUIREMENTS OF C595, NORMAL WEIGHT COARSE AGGREGATE WITH CRUSHED STONE #57 GRADATION THAT MEETS THE REQUIREMENTS OF ASTM C33, AND FINE AGGREGATE CONSISTING OF SAND THAT MEETS THE REQUIREMENTS OF ASTM C33. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH, MAXIMUM WATER-TO-CEMENT RATIO, AND AIR CONTENT AS NOTED BELOW FOR EACH CONCRETE USE:

N/C RATIO AIR CONTENT NOTES <u>CONCRETE USE</u> FOUNDATIONS 4,500 PSI 0.45 6.0%

- 5. PROVIDE AIR ENTRAINMENT ADMIXTURES AS REQUIRED TO ACHIEVE AIR CONTENTS INDICATED. AIR ENTRAINMENT ADMIXTURES SHALL MEET THE REQUIREMENTS OF ASTMC260.
- 6. CONCRETE WITH AIR CONTENT GREATER THAN 3% SHALL NOT BE HARD TROWELED. COORDINATE CONCRETE FINISHES WITH ARCHITECT.
- 7. SLUMP OF CONCRETE SHALL NOT EXCEED 3" AT THE END OF THE TRUCK OR PUMP HOSE (PER ACI 211.1 TABLE 6.3.1). SLUMP LOSS DUE TO PUMPING SHALL BE ACCOMMODATED. IF A SUPERPLASTICIZER OR MID-RANGE WATER REDUCING ADMIXTURE IS USED IN THE MIX DESIGN, THE SLUMP SHALL NOT EXCEED 8" AFTER ADDITION OF THE ADMIXTURE. DO NOT ADD WATER TO CONCRETE AFTER ADDING WATER-REDUCING ADMIXTURES TO THE MIX.
- 8. CONTRACTOR SHALL SUBMIT CONCRETE PROPORTIONS AND SUFFICIENT DOCUMENTATION FROM TEST RESULTS TO ESTABLISH THE STANDARD DEVIATION OF THE PROPOSED MIXES OR TRIAL MIXTURES.
- 9. U.N.O., ALL CONCRETE REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60 AND BE OF DOMESTIC MANUFACTURE. REINFORCING BARS TO BE WELDED SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706, GRADE 60. WELDING OF REINFORCING NOT SPECIFICALLY SHOWN ON THE DRAWINGS IS PROHIBITED.
- 10. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A1064 AND SHALL BE SUPPLIED IN FLAT SHEETS.
- 11. U.N.O., WELDING TO REINFORCING BARS SHALL NOT BE PERMITTED. ELECTRICAL GROUNDING AND OTHER REQUIRED CONNECTIONS TO REINFORCING BARS SHALL BE ATTAINED VIA CLAMPS OR OTHER MANUFACTURED CONNECTIONS.
- 12. U.N.O., MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL ADHERE TO ACI 318 SECTION 20.6.1.1.
- 13. U.N.O., DEVELOPMENT LENGTHS, CLASS "B" LAP SPLICES, AND HOOK DEVELOPMENT LENGTHS SHALL CONFORM TO ACI 318, REFER TO "CONCRETE REINFORCEMENT DEVELOPMENT LENGTH TABLE" FOR ADDITIONAL INFORMATION.
- 14. SPLICES IN REINFORCING SHALL OCCUR AS SHOWN ON THE DRAWINGS REINFORCEMENT DESIGNATED AS "CONTINUOUS REINFORCEMENT" MAY BE SPLICED AS REQUIRED WITH CLASS B LAP SPLICES, LAP SPLICES OF CONTINUOUS REINFORCEMENT SHALL OCCUR OVER SUPPORTS FOR BOTTOM BARS AND AT MID SPAN FOR TOP BARS.
- 15. REINFORCING SHALL BE SUPPORTED AND SECURED IN ITS PROPER LOCATION TO PREVENT DISPLACEMENT DURING PLACEMENT OF CONCRETE
- 16. JOINTS IN CONCRETE MEMBERS NOT SHOWN SHALL BE MADE AND LOCATED TO LEAST IMPAIR THE STRENGTH OF THE MEMBER AND APPEARANCE OF THE STRUCTURE. JOINTS IN CONCRETE ELEMENTS EXPOSED TO VIEW SHALL BE APPROVED BY THE ARCHITECT AND ENGINEER OF RECORD.
- 17. CONSTRUCTION JOINTS SHALL BE PREPARED BY ROUGHENING THE SURFACE OF THE CONCRETE IN AN APPROVED MANNER TO EXPOSE THE AGGREGATE UNIFORMLY LEAVING NO LAITANCE, LOOSENED PARTICLES, OR DAMAGED CONCRETE.
- 18. PROVIDE CHAMFERS AS DETAILED ON THE ARCHITECTURAL DRAWINGS.
- 19. ALL ANCHOR RODS SHALL MEET ASTM F1554, GR 36, U.N.O.
- 20. ALL HIGH-STRENGTH GROUT SHALL BE PREPACKAGED, NON-METALLIC, AND NON-GASEOUS. IT SHALL BE NON-SHRINK ACCORDING TO ASTM C-1107 OR CRD-C-621. GROUT SHALL OBTAIN A MINIMUM COMPRESSIVE STRENGTH OF 7,000 PSI IN 28 DAYS AND SHALL NOT BLEED. GROUT SHALL BE MOIST CURED FOR A MINIMUM OF 24 HOURS AFTER PLACEMENT. SUBMIT CERTIFIED, INDEPENDENT TEST DATA FOR APPROVAL
- 21. CONTROLLED, LOW-STRENGTH MATERIAL (CLSM, OR FLOWABLE FILL) SHALL BE PROPORTIONED, MIXED, TRANSPORTED, AND PLACED ACCORDING TO ACI 229R, "CONTROLLED LOW-STRENGTH MATERIALS." THE MINIMUM COMPRESSIVE STRENGTH OF CLSM SHALL BE BETWEEN 50 PSI AND 100 PSI PER CHAPTER 7 OF ACI 229R.

| CONCRETE REINFORCEMENT DEVELOPMENT LENGTH TABLE | | | | | | |
|--|-----------------------------|-------------------------------|---------------------------------------|-----------------------------|-------------------------------|---------------------------------------|
| | f | "c = 3,500 ps | i | 1 | f'c = 4,500 ps | i |
| BAR SIZE | DEVELOPMENT LENGTH (IN.) | CLASS "B" LAP SPLICE (IN.) | HOOKED DEVELOPMENT LENGTH (IN.) | DEVELOPMENT LENGTH (IN.) | CLASS "B" LAP SPLICE (IN.) | HOOKED DEVELOPMENT LENGTH (IN.) |
| #3 | 16 | 21 | 8 | 14 | 19 | 7 |
| #4 | 21 | 28 | 11 | 18 | 24 | 9 |
| #5 | 26 | 34 | 13 | 23 | 30 | 12 |
| #6 | 31 | 41 | 16 | 27 | 36 | 14 |
| #7 | 45 | 59 | 18 | 40 | 52 | 16 |
| #8 | 51 | 67 | 21 | 45 | 59 | 18 |
| #9 | 58 | 76 | 23 | 51 | 67 | 21 |
| #10 | 65 | 85 | 26 | 57 | 75 | 23 |
| #11 | 72 | 94 | 29 | 64 | 84 | 26 |

DEVELOPMENT LENGTH = STRAIGHT DEFORMED BAR DEVELOPMENT LENGTH IN TENSION AND IS EQUAL TO A CLASS "A" LAP SPLICE. CLASS "B" LAP SPLICE = SPLICE LENGTH FOR LAPPED DEFORMED BARS IN TENSION.

3. HOOKED DEVELOPMENT LENGTH = DEVELOPMENT LENGTH FOR DEFORMED BARS WITH STANDARD 90° HOOKS IN TENSION.

- 4. WHEN BARS OF DIFFERENT SIZES ARE LAPPED, SPLICE LENGTH SHALL BE THE GREATER OF A CLASS "A" LAP OF THE LARGER BAR OR A CLASS "B" LAP OF THE SMALLER BAR. MULTIPLY BY 1.3 FOR TOP BARS, WHICH INCLUDE BARS CAST WITH MORE THAN 12" OF FRESH
- CONCRETE BELOW THE DEVELOPMENT LENGTH OR SPLICE. MULTIPLY BY 1.5 FOR EPOXY-COATED BARS.

MULTIPLY BY 1.3 FOR LIGHT-WEIGHT CONCRETE.

DESIGN CDITEDIA

| DESIGN CRIT | ERIA | | | ЛТ |
|--|-------------------------------|---|---|--|
| APPLICABLE BUIL | | | | |
| IBC 2018 ASCE 7-16 AISC 303-10 AISC 360-10 ACI 318-14 | | UILDINGS AND OTHER STRUCTURES FOR STEEL BUILDINGS AND BRIDGES AL STEEL BUILDINGS | LANDSCAPE AR RECREATIONAL DESIC 5314 S. YALE AVE., SUIT 918.628.1255 | |
| DEAD LOAD | | | | |
| SELF WEIGHT | OF STRUCTURE | ACTUAL WEIGHT OF MATERIALS | | |
| LIVE LOAD | | | | |
| BOARDWALK | | 100 PSF | | |
| SNOW LOAD | | | | CEC |
| GROUND SNO IMPORTANCE THERMAL FAO SNOW EXPOS | FACTOR, Is | 10 PSF 1.00 1.0 0.9 | WWW.CON | RPORATION NECTCEC.COM EXP.: 2024-06-30 |
| WIND LOAD | | | OK (A#. 32 | EAI 2024-00-30 |
| | SPEED, V | II 108 MPH C 0.85 1.0 | | |
| SEISMIC LOAD | | 1.0 | Т | HIS |
| LATITUDE ANI Ss S1 Sds Sd1 IMPORTANCE SITE CLASSIF | FACTOR, le | 35.2183571°N, 97.432459°W 0.339 g 0.085 g 0.293 g 0.085 g 1.00 C (PER GEOTECHNICAL REPORT) B | DOCUI PRELIM NATUR N A FINAL AND S | MENT IS INARY IN E AND IS OT , SIGNED SEALED JMENT |
| FOUNDATION DES | SIGN | | | |
| | IENDATIONS CONTAINED IN THE G | HAVE BEEN DESIGNED BASED ON EOTECHNICAL REPORT PREPARED | PROJECT II | NFORMATION |
| | AL ENGINEER | HINDERLITER | PROJECT ADDF | RESS: |
| REPORT NUM REPORT DATI SLAB-ON-GRA | BER E | CEC-23-09 JULY 13, 2023 | | lameda St. OK 73069 |
| | SUBGRADE REACTION, k | 100 PCI | | |
| | FOUNDATIONS | | PROJECT NO. DATE | 230413 05/10/2024 |
| | FACTURED LOAD | 70.5 TONS/PILE 4.5 FT | | |
| SHALLOW FO | | | DRAWN BY AH | CHECKED BY |
| | BEARING PRESSURE | 1,500 PSF (ASSUMED) | · · · · · · · · · · · · · · · · · · · | |

| STRUCTURAL ABBREVIATIONS | | | |
|--------------------------|--|------------------|--|
| Ø | - DIAMETER | IBC | - INTERNATIONAL BUILDING |
| ° & | - DEGREE - AND | IN-K | CODE - INCH KIPS |
| α @ | - AND - AT | IN-K INT | - INCH KIPS - INTERIOR |
| ± | - PLUS OR MINUS | | |
| A.B. | - ANCHOR BOLT(S) | J.B. JST | - JOIST BEARING - JOIST |
| ACI | - AMERICAN CONCRETE | | |
| ADJ | INSTITUTE - ADJACENT | KIP KSF | - 1000 POUNDS - KIPS PER SQUARE FOOT |
| AISC | - AMERICAN INSTITUTE OF | | |
| AISI | STEEL CONSTRUCTION - AMERICAN IRON AND | LB LLH | - POUND - LONG LEG HORIZONTAL |
| | STEEL INSTITUTE | LLV | - LONG LEG VERTICAL |
| ARCH'L | - ARCHITECTURAL | LO | - LOW |
| ASCE | - AMERICAN SOCIETY OF CIVIL ENGINEERS | MANUF | - MANUFACTURER |
| ASTM | - AMERICAN SOCIETY OF | MAX | - MANUTACTURER - MAXIMUM |
| | TESTING AND MATERIALS | MECH'L | - MECHANICAL |
| AWS | - AMERICAN WELDING SOCIETY | MIN MPII | - MINIMUM - MANUFACTURER'S PRINTED |
| BAL | - BALANCE | 1711 11 | INSTALLATION INSTRUCTIONS |
| BLDG | - BUILDING | | |
| BM B.O. | - BEAM - BOTTOM OF | N.E. N.W. | - NORTHEAST - NORTHWEST |
| BOTT | - BOTTOM OF - BOTTOM | NO. | - NUMBER |
| BRG | - BEARING | • • | |
| BTWN | - BETWEEN | 0.C. 0.H. | - ON-CENTER - OPPOSITE HAND (REVERSED) |
| CANT | - CANTILEVER | 0.п. 0. TO 0. | - OPPOSITE HAND (REVERSED) - OUT-TO-OUT |
| CFMF | - COLD FORMED METAL FRAMING | | |
| C.J. C. TO C. | - CONSTRUCTION JOINT - CENTER-TO-CENTER | P/C PEMB | - PRECAST - PRE-ENGINEERED METAL |
| CTR | - CENTER-TO-CENTER | FEIND | BUILDING |
| ଜ | - CENTERLINE | PL | - PLATE |
| CLR COL | - CLEAR - COLUMN | PSF PSI | - POUNDS PER SQUARE FOOT - POUNDS PER SQUARE INCH |
| COL | - CONCRETE | P31 | - FOUNDS FER SQUARE INCH |
| CONNX | - CONNECTION | REINF | - REINFORCING |
| CONT | - CONTINUOUS | REQ'D | - REQUIRED |
| DBE | - DECK BEARING ELEVATION | S.E. | - SOUTHEAST |
| DBL | - DOUBLE | S.J. | - SAWED JOINT |
| D.B.A. DN | - DEFORMED BAR ANCHOR - DOWN | SHT SIM | - SHEET - SIMILAR |
| DTL | - DETAIL | S.O.G. | - SLAB-ON-GRADE |
| DWG | - DRAWING | SP | - SPACE(S) OR SPACING |
| DWL | - DOWEL | STD STL | - STANDARD - STEEL |
| EA | - EACH | STR'L | - STRUCTURAL |
| E.J. | - EXPANSION JOINT | S.W. | - SOUTHWEST |
| ELEV. ELEC'L | - ELEVATION - ELECTRICAL | Т.О. | - TOP OF |
| EOS | - EDGE OF SLAB | THRU | - THROUGH |
| EQ | - EQUAL | TYP | - TYPICAL |
| E.W. EXT | - EACH WAY - EXTERIOR | USGS | - UNITED STATES GEOLOGICAL |
| FIN. FLR. | | 0000 | SURVEY |
| FT | - FOOT (OR FEET) | U.N.O. | - UNLESS NOTED OTHERWISE |
| FV | - FIELD VERIFY | VERT | - VERTICAL |
| GA | - GAGE | W/ | - WITH |
| GALV | - GALVANIZED | W/C | - WATER/CEMENT |
| G.B. | - GRADE BEAM | W/O W.P. | - WITHOUT - WORKING POINT |
| H.S. | - HIGH STRENGTH | WWR | - WELDED WIRE REINFORCEMENT |
| HI | - HIGH | | |
| hk Horz | - HOOK - HORIZONTAL | | |
| NURZ | | | |

NORMAN N/ **ISSUE/ REVISIONS** 05/10/2024

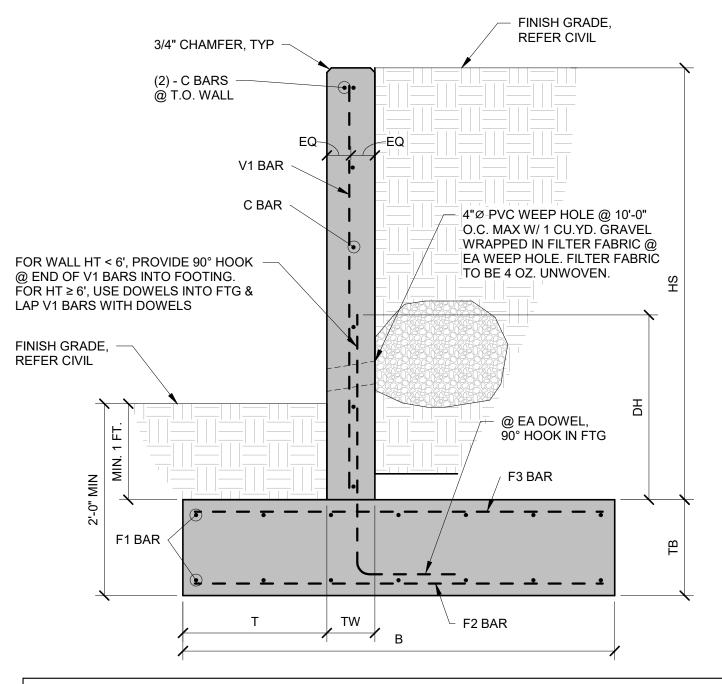
PARI

ATURE

CITY OF NORMAN

OWNER:





RETAINING WALL SCHEDULE WALL DIMENSIONS REINFORCING STEEL HS B T TB TW C BAR F1 BAR F2 BAR F3 BAR V1 BAR DOWELS SIZE SPC SIZE SPC SIZE SPC SIZE SPC BAR SIZE DH 2' 3'-0" 1'-0" 1'-6" 0'-8" #4 @ 12" 3 - #5 EQ SPACED N/A #5 @ 18" #5 @ 18" #4 @ 18" N/A 3' 3'-0" 1'-0" 1'-0" 0'-8" #4 @ 12" #4@ 9" #4 @ 9" #4 @ 9" #4 @ 9" #4 @ 12" N/A N/A 6' 4'-6" 1'-6" 1'-6" 1'-0" #4 @ 18" #5 @ 18" #5 @ 18" #5 @ 18" #4 @ 18" #4 @ 18" 2'-0" 8' 5'-6" 2'-0" 1'-6" 1'-0" #4 @ 18" #5 @ 18" #5 @ 18" #5 @ 18" #5 @ 18" #4 @ 18" #6 @ 18" 2'-6" 10' 7'-0" 2'-0" 1'-6" 1'-0" #4 @ 18" #5 @ 18" #7 @ 18" #5 @ 18" #4 @ 18" #7 @ 18" 4'-0" 12' 9'-0" 2'-0" 1'-6" 1'-0" #4 @ 18" #5 @ 12" #7 @ 12" #7 @ 12" #4 @ 12" #7 @ 12" 5'-0"

