

Purchasing Department

Purchasing Department P.O. Box 9534 Baton Rouge, LA 70813 Phone: (225) 771-4580 Fax: (225) 771-2026

Addendum Number # 5

September 23, 2025

A.O. WILLIAMS MODULAR CAMPUS SU Ag Center Southern University and A&M College Baton Rouge, Louisiana 70813

Bid # 50016-10344

10:30 A.M.

October 6, 2025

The following modifications to the referenced project shall be incorporated into the original specifications and/or plans. Unless a change is specifically made by addendum, the specifications and/or plans as issued shall govern.

Note: Bids need to be submitted by 10:30AM-October 6, 2025.

Bids shall be accepted in the Purchasing Department by above date and time

Note: Vendors are required to acknowledge receipt of this addendum on the Louisiana Uniform Public Work Bid Form

Attachments:

- Addendum # 5-Clarifications and drawings
- Drawings from Addendum # 2 and Addendum # 3 (the initial drawings were not clear)

Linda Antoine, Director of Purchasing

Date 4/0



A.O. WILLIAMS MODULAR CAMPUS

SOUTHERN UNIVERSITY AND AGRICULTURAL & MECHANIC COLLEGE

Addendum 05

H/S Project: 25022 Addendum: 5 Date: 9.22.2025

This Addendum forms a part of the Contract Documents and modifies the original specifications and drawings issued for bidding to the extent noted hereinafter. All other provisions of the Bid Documents shall remain unchanged.

Careful note of this Addendum will be taken by all parties of interest so that proper allowances are made in all computations, estimates and contracts and so that all trades affected are fully advised in the performance of the work that will be required of them. Acknowledge receipt of this Addendum on the Bid Form.

General

5.01 None

Modifications to Previous Addenda

- **5.02** Addendum #3: Refer to Addendum #3 dated 9.10.2025. Refer to line item 3.08 "Addenda: The finial addendum will be issued no later than Monday, September 24, 2025 by 10:30am." Delete line item 3.08 in its entirety and replace with line item 5.03 stated below.
- **5.03** Addenda: The finial addendum will be issued no later than Wednesday, September 24, 2025 by 10:30am.

Clarifications

- **5.04** The University requires that the performance and payment bonds cover the entire scope of work under the modular lease contract. This includes:
 - Delivery, installation, & associated site work.
 - Compliance with all terms and conditions of the lease over the full 3-year term.
 - Finial teardown, removal, and return freight of the modular units, as well as any required site restoration, at the conclusion of the lease.

The bonds must remain in effect for the duration of the contract, through final demobilization, and acceptance by the University. Contractors should structure their pricing and bonding capacity accordingly, as this requirement is intended to ensure that all obligations under the agreement from initial installation through finial removal are fully secured.

- 5.05 Retainage will apply. Upon completing the installation of the modular buildings, the Architect and consulting Engineers will conduct a punch list review and if it is determined that the work is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy the buildings, a Certificate of Substantial Completion will be issued specifically associated with the delivery, installation, and site work only. Upon acceptance of the Substantial Completion, the lien period duration, and Consent of Surety, the partial retainage associated with the delivery, installation, and site work only will be released. The remainder of the retainage will be released after completing final teardown and removal of the modular units, as well as any required site restoration.
- **5.06** All 3rd party testing requirements are identified in the project specification. HVAC Testing and Balancing is included.
- 5.07 Refer to Specification 13 34 23.13, Section 1.6 Lease Period, B & C for delineation between warranty and normal wear and tear. The contractor shall maintain and warrant the modular buildings for the duration of the lease to ensure functionality, structure, finish integrity, and weather resistance. Floor maintenance (stripping & waxing) of VCT floors on an annual basis should be included.
- **5.08** Commercial roll vinyl flooring will be acceptable in the restrooms provided the floor material is impervious.
- **5.09** Epoxy resin countertops with raised marine edge is required in the research buildings.
- 5.10 Sub-surface storm drainage adjacent to the modular buildings is included in a separate contract. Locations of the building downspouts must be carefully coordinated with the locations of the sub-surface drains being installed as part of the site package.
- **5.11** Site fencing is not required as part of the project scope.
- **5.12** Refer to the Site Utilities & Paving drawings by Forte & Tablada issued in Addendum 3 to coordinate building pads, site grading, and positive drainage design around proposed modular buildings.
- **5.13** Refer to the Site Utilities & Paving drawings by Forte & Tablada issued in Addendum 3 to coordinate location of new sanitary sewer lines, cleanouts, and water lines that will be installed under a separate contract. Extend building water and sewer to these points as shown in the contract documents.
- **5.14** Modular building electrical panels or load centers "A1" will be surface mounted on buildings.
- 5.15 The electrician is responsible for providing conduit and feeders to each MOD panel served from the appropriate "DP" freestanding distribution panel supported by Unistrut. Terminate that conduit and feeder into the MOD panel located on the assigned building. See Detail 1/E3.0, E3.1, and Detail 3/E4.0.
- **5.16** The contractor's electrical scope concludes at the main distribution panels. Utility power, conduit, and wire will be installed by others.

- **5.17** The fiber scope is as follows:
 - Contractor to provide conduit and route with pull string from demarcation point and secure with cap end 3'-0" from exterior of building that houses the main MDF data rack. Finial conduit tie-ins to the MDF rack will occur when buildings are in place.
 - Fiber to be pulled and routed from demarcation point through the (1) 2"C to "MDF" room in Office Bldg#2. Provided by others.
 - Fiber provided and routed from MDF data rack between building(s) using the star method. Finial termination of fiber to be done by others.
- 5.18 You are not allowed to sell the lease of the modular buildings to your finance firm. The contract or purchase order will be directly between Southern University and the successful low bid Contractor / Vendor.

Modifications to the Procurement and Contracting Requirements

5.19 None

Modifications to the Specifications

- **5.20** Refer to Specification 13 34 23.13 PORTABLE AND MOBILE BUILDINGS. See Section 3.4, Scope Schedule, Paragraph 6, Item g. Delete "g. Vented white vinyl skirting & associated trim, cut to site profile." In it's entirety and replace with the following:
 - g. Hardie or pre-finished metal panel skirting and associated trim, cut to site profile.
- **5.21** Refer to Specification 13 34 23.13 PORTABLE AND MOBILE BUILDINGS. See Section 2.2 Plumbing And Mechanical, Paragraph E. Delete "E. Ceiling Finish: Suspended Grid with painted gypsum board." In it's entirety and replace with the following:
 - E. Ceiling Finish: 2 x 2 ceiling grid and acoustical ceilings panels.
- **5.22** Refer to Specification 13 34 23.13 PORTABLE AND MOBILE BUILDINGS. See Section 2.2 Plumbing And Mechanical, Paragraph D.
 - FRP wall finish will be required for the Laboratory Buildings only and Vinyl Clad Gypsum (VCG) will be required for the Office Buildings.
- **5.23** Refer to Bid Documents Specifications dated 7.24.2025. Insert Specification "Section 27 00 50 Access Control, Camera, Intercom" included herein as part of Addendum #5 dated 9.22.2025.

Modifications to the Drawings

- 5.23 See Bid Documents dated 07/24/2025. Refer to Sheets E0.0 & E3.1. Delete sheets in their entirety and replace with Sheets E0.0 & E3.1 included herein as part of Addendum #5 dated 09/22/2025.
- 5.24 See Bid Documents dated 07/24/2025. Refer to Sheets E1.2, E2.0, E2.1, E3.0, & E4.0 issued as part of Addendum #2 dated 08/27/2025. Delete sheets in their entirety and replace with Sheets E1.2, E2.0, E2.1, E3.0, & E4.0 included herein as part of Addendum #5 dated 09/22/2025.

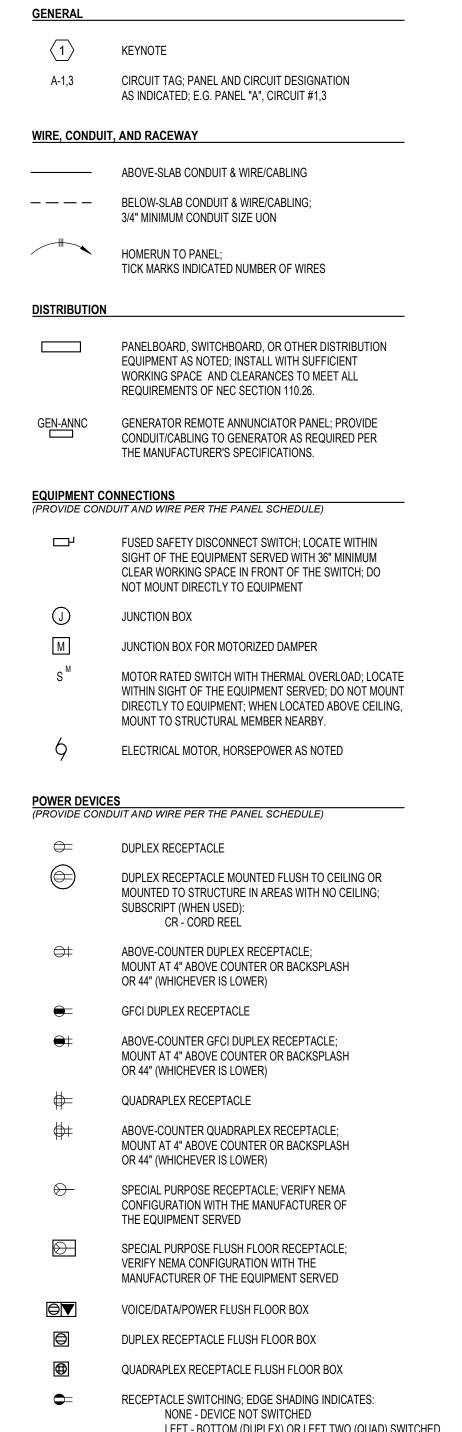
Prior Approvals

The following manufacturers, equipment, materials, or products have been Prior Approved for use on this project. Approvals are based upon the opinion, knowledge, information and belief of the Architect at the time of issuance of this Addendum and reliance upon the data submitted. Approvals are therefore interim in nature and subject to reconsideration as additional data, materials, workmanship, and coordination with other work are observed and reviewed. All items allowed by this Addendum are subject to the full provisions of the original contract documents including all modifications thereto and shall be warranted as substitutions conforming with the contract documents as provided for in the General Conditions. In proposing items allowed by this Addendum, bidder assumes all risk, costs, and responsibility for item's final acceptance, performance, and integration into the work.

Architectural

Section 13 34 23.13 – Portable And Mobile Buildings Quick Building Modular

END OF ADDENDUM.



ELECTRICAL SYMBOL LEGEND

LEFT - BOTTOM (DUPLEX) OR LEFT TWO (QUAD) SWITCHED RIGHT - TOP (DUPLEX) OR RIGHT TWO (QUAD) SWITCHED PROVIDE 3/4"EC WITH PULL STRING FROM THE DEVICE LOCATION SHOWN

ON THE DRAWINGS TO AN ACCESSIBLE LOCATION ABOVE CEILING)

PA SYSTEM SPEAKER VOLUME CONTROL

PA SYSTEM SPEAKER MOUNT CALL-IN SWITCH

ABOVE COUNTER (6" ABOVE BACKSPLASH)

AMP SYMMETRICAL INTERRUPTING CAPACITY RMS

ARC FAULT CIRCUIT INTERRUPTER

PA SYSTEM SPEAKER

AMPERE(S)

AMPERE(S) FUSED

ABOVE FINISHED FLOOR

ABOVE FINISHED GRADE

AMERICAN WIRE GAUGE

AMPERE(S) TRIP

BELOW GRADI

BRFAKFF

CONDUIT

CATEGOR'

ABBREVIATIONS

AWG

BLDG

(REFER TO DRAWINGS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS) JACKET COLORS TO BE PER THE OWNER'S STANDARDS IF APPLICABLE) (PROVIDE CONDUIT AND WIRE PER THE PANEL SCHEDULE FOR POWER AND CONDUIT AND CABLING PER THE MANUFACTURER'S SPECIFICATIONS)

FIRE ALARM CONTROL PANEL

FIRE ALARM SYSTEM STROBE

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VERKADA OUTDOOR □□□

INTERCOM, CAMERA

AND KEYLESS ENTRY

FXHAUST FAN

EMERGENCY

EQUIPMENT

EXISTING

FOOTCANDLE

FAN COIL UNIT

FULL LOAD AMPERE(S)

EQUAL

EMER.

EQUIP.

FACP

EMT

EQUIPMENT GROUNDING CONDUCTOR

ELECTRICAL METALLIC TUBING

ELECTRIC WATER COOLER

ELECTRIC WATER HEATER

FIRE ALARM CONTROL PANEL

FIRE ALARM CONTROL PANEL REMOTE ANNUNCIATOR

LVERKADA FISHEYE

FIRE ALARM SYSTEM PULL STATION

FIRE ALARM SYSTEM CHIME/STROBE

FIRE ALARM SYSTEM HORN/STROBE

FIRE ALARM SYSTEM SPEAKER/STROBE

FIRE ALARM SYSTEM CEILING MOUNT STROBE

FIRE ALARM SYSTEM CEILING MOUNT CHIME/STROBE

FIRE ALARM SYSTEM CEILING MOUNT HORN/STROBE

FIRE ALARM SYSTEM CEILING MOUNT SPEAKER/STROBE

FIRE ALARM SYSTEM CARBON MONOXIDE DETECTOR

DATA, SECURITY, SURVIELLANCE, CAMERAS, DOOR CONTACTS, MOTION DETECTORS CABLING.

JUNCTION BOX FOR KEYPAD; INSTALL 48" AFF AND

BOX TO AN ACCESSIBLE LOCATION ABOVE CEILING

AN ACCESSIBLE LOCATION ABOVE CEILING

JUNCTION BOX WITH WALL MOUNTED OR CEILING

JUNCTION BOX WITH WALL MOUNTED INTERCOM

ACCESSIBLE LOCATION ABOVE CEILING

PROVIDE 1"FC WITH PULL STRING FROM THE DEVICE LOCATION SHOWN

FLOOR MOUNTED MICROPHONE OUTLET

FOC

GFCI

LTG

G, GND

FIBER OPTIC CABLE

GALVANIZED RIGID STEEL

HANDHOLE

HORSEPOWER

1,000 WATT HOURS

1,000 VOLT AMPERES

LOCAL AREA NETWORK

LIGHTING CONTACTOR

MINIMUM CIRCUIT AMPACITY

LIGHTING

GROUNDING ELECTRODE CONDUCTOR

GROUND FAULT CIRCUIT INTERRUPTER

1,000 AMP SYMMETRICAL INTERRUPTING CAPACITY RMS

ON THE DRAWINGS TO AN ACCESSIBLE LOCATION ABOVE CEILING)

CEILING MOUNTED SPEAKER

WALL MOUNTED SPEAKER

MOUNTED ČAMERA; PROVIDE 3/4"EC WITH PULL STRING

FROM THE JUNCTION BOX TO AN ACCESSIBLE LOCATION

CAMERA, AND KEYLESS ENTRY SYSTEM; PROVIDE 3/4"EC

WITH PULL STRING FROM THE JUNCTION BOX TO AN

CONTROLLED DOOR

PULL STRING FROM THE JUNCTION BOX TO AN

PROVIDE 3/4"EC WITH PULL STRING FROM THE JUNCTION

JUNCTION BOX WITH DOOR CONTACT (MAGNETIC LOCK);

TO THE JUNCTION BOX AND FROM THE JUNCTION BOX TO

JUNCTION BOX WITH CARD READER; PROVIDE 3/4"EC WITH

JUNCTION BOX FOR ELECTRIC STRIKE LOCK; PROVIDE

JUNCTION BOX AND FROM THE JUNCTION BOX TO AN

JUNCTION BOX FOR DOOR OPERATOR; PROVIDE 3/4"EC

JUNCTION BOX WITH MOTION DETECTOR; PROVIDE 3/4"EC

JUNCTION BOX WITH WALL MOUNTED CAMERA; PROVIDE

3/4"EC WITH PULL STRING FROM THE JUNCTION BOX TO AN

WITH PULL STRING FROM THE JUNCTION BOX TO AN

WITH PULL STRING FROM THE JUNCTION BOX TO AN

ACCESSIBLE LOCATION ABOVE CEILING NEAR THE

3/4"EC WITH PULL STRING FROM THE DOOR FRAME TO THE

PROVIDE 3/4"EC WITH PULL STRING FROM THE DOOR FRAME

FIRE ALARM SYSTEM THERMAL DETECTOR

FIRE ALARM SYSTEM SMOKE DETECTOR

SECURITY (EQUIPMENT PROVIDED BY OWNER/OTHERS)

FIRE ALARM SYSTEM DUCT SMOKE DETECTOR

TELECOM TERMINAL BOARD; 0'-1" THICK AC INDOOR GRADE, FIRE RETARDANT PLYWOOD, PAINTED AS SPECIFIED BY THE ARCHITECT OR OWNER DUPLEX DATA OUTLET; PROVIDE 1"C TO AN

ACCESSIBLE LOCATION ABOVE CEILING, TWO (2) BLUE CAT 6 CABLES FROM THE OUTLET TO THE TELECOM TERMINAL BOARD DUPLEX DATA OUTLET, AS ABOVE, MOUNTED FLUSH

TO CEILING OR MOUNTED TO STRUCTURE IN AREAS WITH NO CEILING DUPLEX DATA OUTLET. AS ABOVE. MOUNTED ABOVE COUNTER

DATA/VOICE OUTLET; PROVIDE 1"C TO AN ACCESSIBLE LOCATION ABOVE CEILING, ONE (1) BLUE AND ONE (1) WHITE CAT 6 CABLES FROM THE OUTLET TO THE TELECOM TERMINAL BOARD

VOICE OUTLET; PROVIDE 1"C TO AN ACCESSIBLE LOCATION ABOVE CEILING, ONE (1) WHITE CAT 6 CABLE FROM THE OUTLET TO THE TELECOM TERMINAL BOARD

TERMINAL BOARD

DUPLEX DATA FLUSH FLOOR BOX; PROVIDE 1"C TO AN ACCESSIBLE LOCATION ABOVE CEILING, ONE (1) BLUE CAT 6 CABLE FROM THE OUTLET TO THE TELECOM

WIRELESS ACCESS POINT (BY OWNER); PROVIDE 1"C TO AN ACCESSIBLE LOCATION ABOVE CEILING, ONE (1) BLUE CAT 6 CABLE FROM THE ACCESS POINT LOCATION TO THE TELECOM TERMINAL BOARD

LEGRAND EVOLUTION 4-GANG OR APPROVED EQUAL TV WALL BOX WITH ONE DUPLEX RECEPTACLE. ONE DUPLEX DATA OUTLET, ONE COAX OUTLET, AND ONE SPARE GANG; PROVIDE 1"C, TWO (2) BLUE CAT 6 CABLES AND 1"C, ONE (1) CATV CABLE FROM THE BOX TO THE TELECOM TERMINAL BOARD; PROVIDE CONDUIT AND WIRE FOR POWER PER THE PANEL SCHEDULE.

LEGRAND EVOLUTION 4-GANG OR APPROVED EQUAL COMBO RECESSED FLOOR BOX WITH TWO (2) DUPLEX RECEPTACLES, FOUR (4) DATA OUTLETS (UNDER A SINGLE PLATE), AND SPEAKER CONNECTIONS; PROVIDE 1-1/4"C TO AN ACCESSIBLE LOCATION ABOVE CEILING, FOUR (4) BLUE CAT 6 CABLES FROM THE BOX TO THE TELECOM TERMINAL BOARD. ROUTE 1"EC WITH PULLSTRING FROM THE BOX TO THE TV WALL BOX IN THE SAME ROOM FOR SPEAKER CABLING. PROVIDE CONDUIT AND WIRE FOR POWER PER THE PANEL SCHEDULE.

LIGHTING
(PROVIDE CONDUIT AND WIRE PER THE PANEL SCHEDULE FOR POWER AND PER THE MANUFACTURER'S SPECIFICATIONS FOR CONTROLS)

LIGHT FIXTURE; UPPERCASE LETTER(S) INDICATE FIXTURE TYPE; LOWERCASE LETTER(S) INDICATE ASSOCIATED CONTROLS ID; SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE DESCRIPTIONS AND MOUNTING TYPES EXIT LIGHT FIXTURE. ARROWS (IF USED) INDICATE DIRECTION. FILLED IN QUADRANT(S) INDICATE NUMBER AND ORIENTATION OF ILLUMINATED FACES. LETTER(S) INDICATE

FIXTURE DESCRIPTION. CEILING MOUNTED OCCUPANCY SENSOR WITH 360° COVERAGE, LOCATE AND INSTALL PER THE MANUFACTURER'S RECOMMENDATIONS; TEST AND ADJUST SENSITIVITY AFTER INSTALLATION AND SET TIME DELAY AS REQUIRED BY THE OWNER

FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR

CEILING MOUNTED DAYLIGHT HARVESTING SENSOR, LOCATED AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS; TEST AND ADJUST SENSITIVITY AFTER INSTALLATION AND SET TIME DELAY AS REQUIRED PER CODE

CEILING MOUNTED OCCUPANCY SENSOR, AS ABOVE, CONFIGURED FOR VACANCY OPERATION

PHOTOELECTRIC CELL, EXTERIOR RATED; AIM AND SHIELD SENSOR FROM INTERIOR AND EXTERIOR ARTIFICIAL LIGHT SOURCES

SUBSCRIPT (WHEN USED) NONE - SINGLE POLE TOGGLE SWITCH 3 - THREE-WAY SWITCH D - LINEAR SLIDE DIMMER SWITCH 3D - THREE-WAY LINEAR SLIDE DIMMER SWITCH O - WALL MOUNTED OCCUPANCY SENSOR 30 - THREE-WAY SWITCH WITH OCCUPANCY SENSOR a,b,c etc. - SWITCH ID

ELECTRICAL GENERAL NOTES

 ALL ELECTRICAL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AS ADOPTED BY THE AHJ.

THE WORDS "PROVIDE" AND "PROVIDED" AS USED HEREIN SHALL BE UNDERSTOOD TO MEAN, "PROVIDE COMPLETE IN PLACE," THAT IS "FURNISH AND INSTALL". EQUIPMENT AND MATERIAL INDICATED TO BE PROVIDED SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL BE OF THE MOST SUITABLE GRADE FOR THE PURPOSE INTENDED. ROUTE NEW CONDUIT AND WIRING CONCEALED IN WALLS AND CEILING WHERE POSSIBLE. COORDINATE INSTALLATION OF

EXPOSED CONDUIT AND WIRING WITH THE ARCHITECT. CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE TO NEW HVAC UNITS AS FURNISHED BY THE MECHANICAL

CONTRACTOR. VERIFY THE EXACT ELECTRICAL REQUIREMENTS WITH THE REVIEWED HVAC SUBMITTALS PRIOR TO ORDERING ELECTRICAL EQUIPMENT

BEFORE INSTALLATION, CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS TO THE ENGINEER FOR REVIEW COVERING PROPOSED LOCATIONS, MOUNTING, AND ROUTING FOR ALL CONDUITS, SERVICES, FITTINGS, GROUND RODS, SUPPORTS,

CONTRACTOR IS RESPONSIBLE FOR OVER-CURRENT PROTECTIVE DEVICE SHORT CIRCUIT, COORDINATION, AND ARC-FLASH STUDIES.

MATERIALS AND MANUFACTURERS NOTED ON DRAWINGS ARE TO BE USED AS BASIS OF DESIGN TO ESTABLISH QUALITY AND PERFORMANCE STANDARDS AND SHALL BE PROVIDED AS SPECIFIED. SUBSTITUTIONS WILL BE CONSIDERED WHERE SUFFICIENT PRODUCT INFORMATION IS PROVIDED TO MAKE A PROPER EVALUATION. REVIEW OF A SUBSTITUTION IS AT THE SOLE DISCRETION OF THE PROFESSIONAL

THE CONTRACTOR SHALL SUBMIT COPIES OF THE PRODUCT DATA, SHOP DRAWINGS, ETC. OF ALL MATERIALS NOTED ON THE DRAWINGS. ALL SUBMITTED PRODUCT DATA, SHOP DRAWINGS, ETC. SHALL BE MARKED WITH THE NAME OF THE PROJECT AND SHALL BEAR THE STAMP OF APPROVAL OF THE CONTRACTOR AS EVIDENCE THAT THE MATERIAL HAS BEEN CHECKED BY THE CONTRACTOR.

DRAWINGS SPECIFIC TO THIS TRADE DO NOT LIMIT THE RESPONSIBILITY OR WORK REQUIRED BY THE CONTRACT DOCUMENTS. REFER TO DRAWINGS AND SPECIFICATIONS OF OTHER TRADES FOR COMPLETE INFORMATION PRIOR TO

 WHERE CONFLICTS EXIST AMONG DRAWINGS, SPECIFICATIONS, AND EQUIPMENT SCHEDULES, THE MOST STRINGENT REQUIREMENT OR QUANTITY SHALL APPLY. NOTIFY THE ARCHITECT/ENGINEER OF ALL CONFLICTS FOR RESOLUTION OR INTERPRETATION.

NO EQUIPMENT SHALL BE ORDERED OR INSTALLED UNTIL THE PROJECT ENGINEER HAS RECEIVED A COPY STAMPED "NO EXCEPTIONS TAKEN." "NO EXCEPTIONS TAKEN" DOES NOT RELIEVE THE CONTRACTOR FROM CONFORMANCE WITH THE CONTRACT, EXTEND TO QUANTITIES OR DIMENSIONS, IMPLY THAT THE EQUIPMENT CAN BE INSTALLED OR OPERATE SATISFACTORILY, THAT THE EQUIPMENT CONTAINS ALL NECESSARY COMPONENTS, OR THAT IT WILL COORDINATE WITH OTHER REVIEWED ITEMS.

OMISSION FROM THIS SHEET OF ANY ITEM SHOWN ELSEWHERE IN THE PLANS DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR ANY ASSOCIATED WORK. NOTE: PROVIDE 1"C AND A PULLSTRING, WITH A JUNCTION BOX AND A SOLID FACE PLATE TO SERVE 13.

COORDINATE INSTALLATION OF NEW ITEMS AND EQUIPMENT WITH THE OWNER'S REPRESENTATIVE AND THE WORK OF OTHER TRADES. THE CONTRACTOR SHALL INCUR ALL COSTS ASSOCIATED WITH THE RELOCATION OF EQUIPMENT CONFLICTING WITH NEW WORK BY OTHER TRADES THAT HAS NOT BEEN COORDINATED.

COORDINATE ALL ASPECTS OF NEW SERVICE WITH UTILITY COMPANY AND INCLUDE ALL COSTS IN BID. WARNING TAPE SHALL BE INSTALLED 12 TO 18 INCHES BELOW GRADE OVER ALL CONDUITS.

PROVIDE 1/4" MINIMUM DIAMETER PULL ROPE. PULL ROPE SHALL NOT BE NYLON STRING. FOR SERVICE ENTRANCE CONDUITS, UTILIZE LONG RADIUS (36") CONDUIT BENDS.

ALL CONDUIT RISERS FROM UNDERGROUND SHALL HAVE RIGID METAL ELLS AND RISERS.

PRIOR TO CONSTRUCTION, VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. AVOID DISTURBANCE OF EXISTING UTILITIES NOT INCLUDED IN THIS PROJECT. SET SCREW CONDUIT FITTINGS SHALL NOT BE PERMITTED.

LIGHTING GENERAL NOTES

VERIFY THE EXACT LOCATION OF ALL LIGHTING SWITCHES WITH THE ARCHITECT PRIOR TO ROUGH-IN. VERIFY THE EXACT LOCATION OF ALL LIGHTING FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN PRIOR

TO ROUGH-IN VERIFY THE EXACT LOCATION OF CEILING MOUNTED OCCUPANCY SENSORS WITH THE MANUFACTURER'S

SPECIFICATIONS PRIOR TO INSTALLATION FOR MAXIMUM PERFORMANCE. EMERGENCY FIXTURES AND EXIT FIXTURES SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT. BRANCH CIRCUIT

WIRING TO EXIT FIXTURES AND TO BATTERY INVERTERS WITHIN FIXTURES WITH INTEGRAL BATTERY UNITS SHALL BE UNSWITCHED, CONNECTED AHEAD OF ANY CONTROL SWITCHING. WALL MOUNT TYPE "Z" FIXTURES ABOVE DOOR AS SHOWN ON DRAWINGS. COORDINATE WITH THE ARCHITECT PRIOR TO

ROUGH-IN. MOUNT TYPE "EM" FIXTURES 8'-0" AFF UNLESS OTHERWISE NOTED. VERIFY THE CEILING TYPES FOR ALL LIGHT FIXTURES TO BE FLUSH MOUNTED OR SUSPENDED AND ADJUST FIXTURE

MOUNTING TYPES IN ACCORDANCE WITH THE CEILING TYPE, AS REQUIRED. CONTRACTOR SHALL PROVIDE ALL REQUIRED MOUNTING HARDWARE ALL VANITY FIXTURES SHALL BE MOUNTED WITH 0'-3" OF SPACE BETWEEN THE BOTTOM OF THE FIXTURE AND THE TOP OF THE MIRROR UNLESS OTHERWISE NOTED.

VERIFY THE EXACT MOUNTING LOCATION FOR ANY PHOTOELECTRIC CELLS WITH THE ARCHITECT PRIOR TO ROUGH-IN. ALL PHOTOELECTRIC CELLS MUST FACE NORTH. CONTRACTOR SHALL CONFIRM COMPATIBILITY OF ALL LIGHTING CONTROL DEVICES/SWITCHES/DIMMERS WITH LIGHTING

FIXTURES AND BALLASTS/DRIVERS PRIOR TO SUBMITTAL COORDINATE LOCATION OF LIGHT FIXTURES IN MECHANICAL ROOMS WITH DIVISION 15/23 PLANNED EQUIPMENT LOCATION AND DUCT INSTALLATION. WALL MOUNT LIGHTS OR PROVIDE PENDANT MOUNTING AS REQUIRED TO

ILLUMINATE THE SPACE. WHERE MULTIPLE OCCUPANCY SENSORS ARE SHOWN IN THE SAME AREA, MOTION DETECTION BY ONE SENSOR SHALL ILLUMINATE ALL LIGHTING IN THE RESPECTIVE AREA.

TELECOMMUNICATIONS GENERAL NOTES

PROVIDE 1" CONDUIT AND TWO (2) CAT 6 CABLES AT EACH DATA OUTLET SHOWN. ROUTE TO ABOVE CEILING AND ROUTE TO TELEPHONE BACKBOARD IN IT ROOM. TERMINATE AND CONNECT STATION CABLES TO PATCH PANEL, FOLLOWING THE

OWNER'S LABELING CONVENTIONS FOR ALL HORIZONTAL CABLING. OWNER SHALL PROVIDE THE WALL MOUNT DATA RACK, ALL ITEMS INCLUDED IN THE DATA RACK, AND ANY NECESSARY

TELEPHONE EQUIPMENT PLYWOOD FOR BACKBOARDS SHALL BE 0'-1" AC INDOOR GRADE, FIRE RETARDANT, AND PAINTED AS SPECIFIED. COMMON BOND RACKS, PATCH PANELS, CABLE SHIELDS, PROTECTORS, AND THE BUILDING MAIN ELECTRICAL GROUNDING CONDUCTORS SHALL BE, AT MINIMUM, #6 AWG INSULATED AND STRANDED COPPER. FASTENERS SHALL BE

RECESSED AND ANCHORED. SUBMIT DIGITAL PHOTOGRAPHS OF ALL TERMINATIONS TO MAIN ELECTRICAL SERVICE GROUNDING MEANS. ALL BACKBOARDS SHALL BE EQUIPPED WITH D-RINGS SPACED AT 1'-0" APART AROUND ALL EDGES OF THE PLYWOOD TO SUPPORT CABLE AND WIRE.

NORMALLY OPEN

OVERHEAD ELECTRICAL

UTILITY POWER POLE

OVERHEAD

PULL BOX

PHASE

PANEL

QUANTITY

REQUIRED

RCPT

REQ'D

RECEPTACLE

OUTSIDE PLANT

PHOTOVOLTAIC

POLYVINYL CHLORIDE

WEATHERPROOF IN-USE COVER

CAT 6 CABLES FOR DATA OUTLETS SHALL HAVE BLUE JACKETS AND CAT 6 CABLES FOR VOICE OUTLETS SHALL HAVE

MAIN CIRCUIT BREAKER

MCM/KCMIL 1,000 CIRCULAR MILS

MECHANICAL

MAIN LUGS ONLY

NORMALLY CLOSED

NATIONAL ELECTRICAL CODE

MAXIMUM OVERCURRENT PROTECTION

MANHOI F

MOUNTED

MOUNTING

NEUTRAL

NON-FUSED

NIGHT LIGHT

NOT IN CONTRACT

MCB

MOCP

SPECIAL SYSTEMS GENERAL NOTES

E4.0

SUPPLY FAN

STANDARD

TELEPHONE

TELEVISION

TYPICAL

UNDERGROUND

UNDERGROUND PRIMARY

TMGB

TVSS

SOLID NEUTRAL

SURGE PROTECTIVE DEVICE

TELECOMMUNICATIONS

TELECOM TERMINAL BOARD

TELECOMMUNICATIONS GROUND BUS

TELECOMMUNICATIONS MAIN GROUND BUS

TRANSIENT VOLTAGE SURGE SUPPRESSION

VERIFY EXACT LOCATION, VOLTAGE, PHASE, AMPERAGE, ETC. OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL

CONTRACTOR PRIOR TO ORDERING ELECTRICAL GEAR. FOR ALL CAMERA LOCATIONS, PROVIDE ONE (1) GREEN JACKETED CAT 6 CABLE IN 3/4" CONDUIT BACK TO ASSOCIATED

DATA CLOSET. FOR ALL WIRELESS ACCESS POINT LOCATIONS, PROVIDE ONE (1) YELLOW JACKETED CAT 6 CABLE IN 3/4" CONDUIT BACK

TO ASSOCIATED DATA CLOSET. PROVIDE AN ADDITIONAL 10%, OR ONE (1), WHICHEVER IS GREATER, OF THE FOLLOWING DEVICES WHICH ARE INCLUDED IN THE PROJECT, AND INSTALL THEM AT THE DIRECTION OF THE ARCHITECT, ENGINEER, OR AHJ DURING THE COURSE OF THE PROJECT. PROVIDE ALL REQUIRED CONDUIT, INTERCONNECTIONS, CONDUCTORS, PROGRAMMING, ETC. AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER: INITIATING DEVICES (PULL STATIONS, SMOKE DETECTORS, THERMAL DETECTORS, ETC.), NOTIFICATION APPLIANCES (STROBES, HORN STROBES, SPEAKER STROBES, SPEAKERS, DUCT

DETECTORS, ETC.), AND MONITORING MODULES. VERIFY REQUIRED QUANTITY OF DUCT DETECTORS WITH DUCTWORK CONFIGURATION AS IT IS ACTUALLY INSTALLED. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

INDEX - ELECTRICAL SHEETS ELECTRICAL COVER SHEET OVERALL TEMP BUILDINGS - SITE PLAN E1.1 FIBER ROUTING TEMP BUILDINGS E1.2 SITE LIGHTING E2.0 POWER PLAN - RESEARCH BUILDINGS E2.1 POWER PLAN - OFFICE BUILDINGS RISER DIAGRAM & SCHEDULES E3.1 PANEL SCHEDULES ELECTRICAL DETAILS

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LAFAYETTE

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) E

NO. DESCRIPTION DATE 1 ADDEMDUM 5 09/22/25

PROJECT NO. PHASE 07/24/2025

PROJECT MANAGER

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DOCUMENTS

225.332.0222

UNDERGROUND SECONDARY

UNLESS OTHERWISE NOTED

VOLTS ALTERNATING CURRENT

VARIABLE FREQUENCY DRIVE

VOLTS DIRECT CURRENT

WATER HEATER

WEATHERPROOF

TRANSFORMER

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UNDERWRITER'S LABORATORY, INC.

UNIT HEATER

VOLTS

UON

VDC:

VFD

XFMR

ELECTRICAL COVER SHEET

CABLE TELEVISION

CIRCUIT BREAKER

CURRENT TRANSFORMER

CIRCUIT

CORRIDOR

CONTROLLER

DISCONNECT

DISTRIBUTION

DRAWING

TO BE DEMOLISHED

EXISTING TO REMAIN

ENCLOSED CIRCUIT BREAKER

EMPTY CONDUIT

CLG

CATV

CLG

CORR

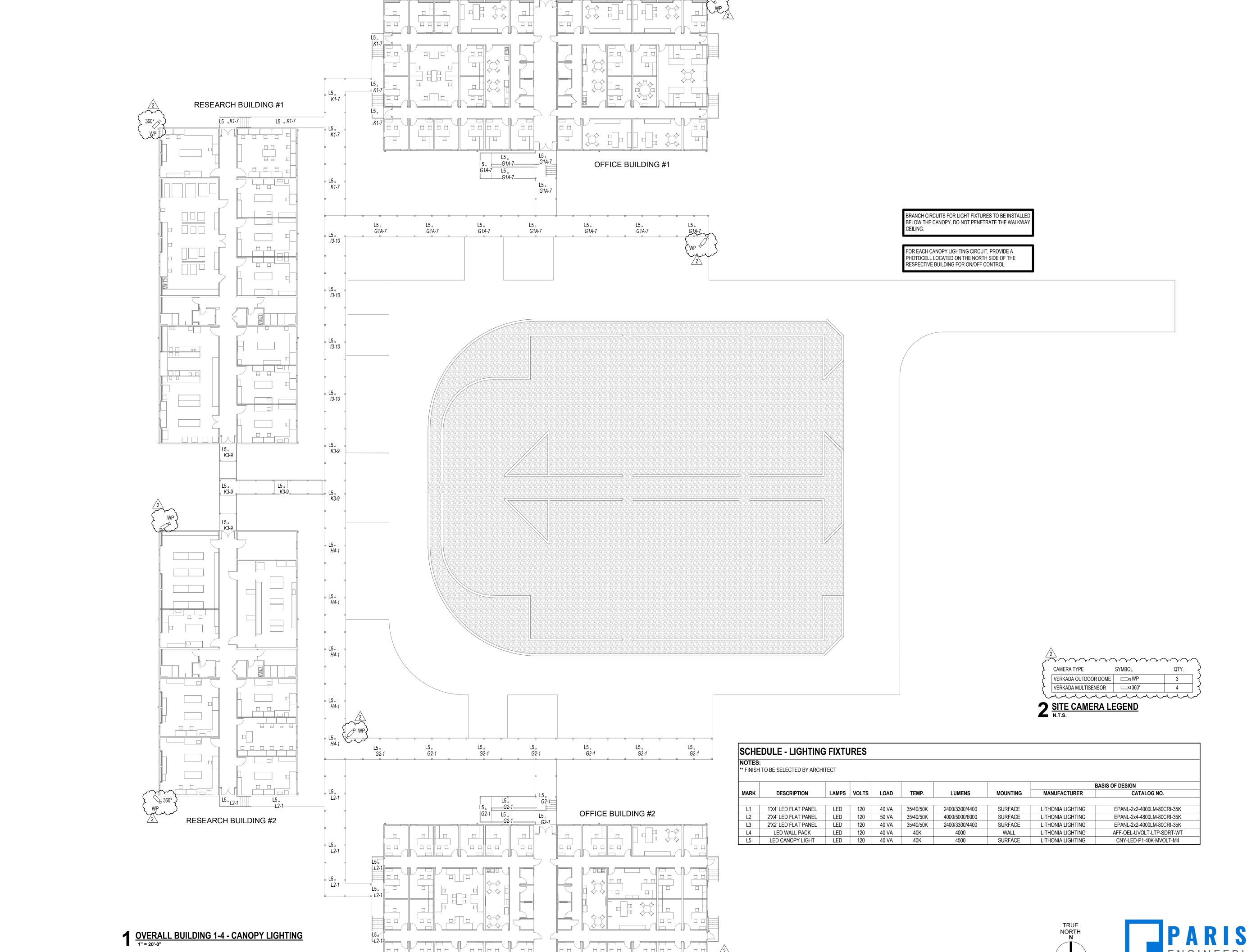
CTRL

DISC.

DIST

DWG

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PROJECT NO.

E1.2

SITE LIGHTING

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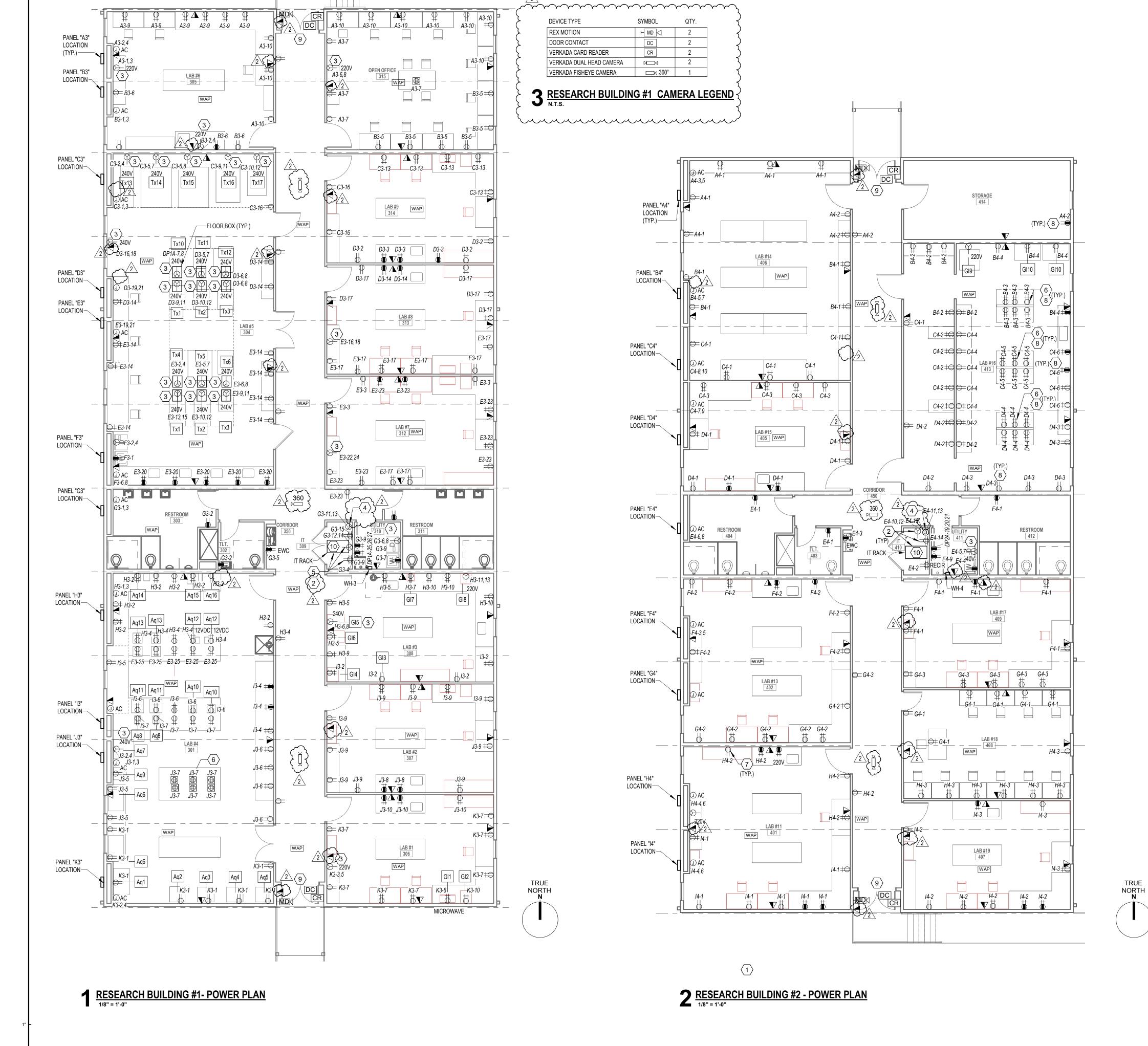
25022

07/24/2025

BID

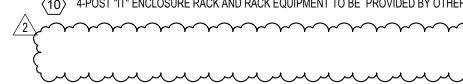
 $\langle 1 \rangle$

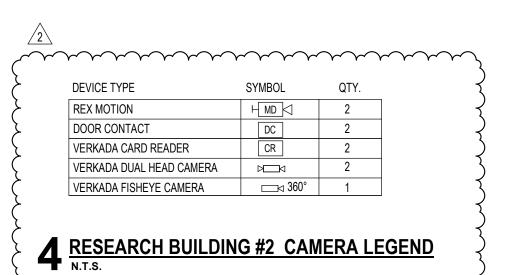
0" ½" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.



ELECTRICAL KEYNOTES:

- APPROXIMATE LOCATION OF UNISTRUT AND MOUNTED ELECTRICAL GEAR. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION. SEE DETAIL 3/E4.0 FOR ADDITIONAL ELECTRICAL DATA.
- 2 SEE DETAIL 1/E4.0 FOR FURTHER ELECTRICAL DATA RACK INFORMATION.
- PROVIDE DEDICATED 2 POLE BREAKER CIRCUIT FOR 240V OUTLET AS SHOWN ON DRAWING VERIFY MOUNTING HEIGHT PDU UNIT. UNIT TO BE DUAL RATED TO HANDLE 208Y/240Y.
- PROVIDE PATCH PANEL, QUAD OUTLET, AND TWIST LOCK RECEPTACLE FOR "IT". COORDINATE NEMA CONFIGURATION
- \langle 6 \rangle MILLWORK INCLUDES CENTER SUPPORT WALL WITH RAISED EQUIPMENT SHELF AND POWER. REFER TO ARCHITECTURAL
- \langle 7 angle COORDINATE MOUNTING HEIGHT WITH ARCHITECT,MILLWORK, AND CABINET INSTALLER PRIOR TO INSTALL
- 8 ALL STANDARD DUPLEX RECEPTACLES ARE RATED AT 20A TYPICAL THROUGHOUT UNLESS OTHERWISE NOTED. REFER TO DETAIL 8,9,&10 ON SHEET E3.0 FOR ADDITIONAL ELECTRICAL DATA. DEVICES PROVIDED BY OTHERS
- 9 EXIT SIGNS AT END OF HALLWAY OR COORIDOR TO BE PROVIDED BY OTHERS.
- (10) 4-POST "IT" ENCLOSURE RACK AND RACK EQUIPMENT TO BE PROVIDED BY OTHERS.





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BID **DOCUMENTS**

POWER PLAN - RESEARCH 7600 Innovation Park Drive 225.332.0222 Baton Rouge, LA 70820 parisheng.com| #25-082 BUILDINGS



 $\langle 1 \rangle$

PANEL "L2"

OFFICE BUILDING #2 - POWER PLAN

LOCATION-

0" ½" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

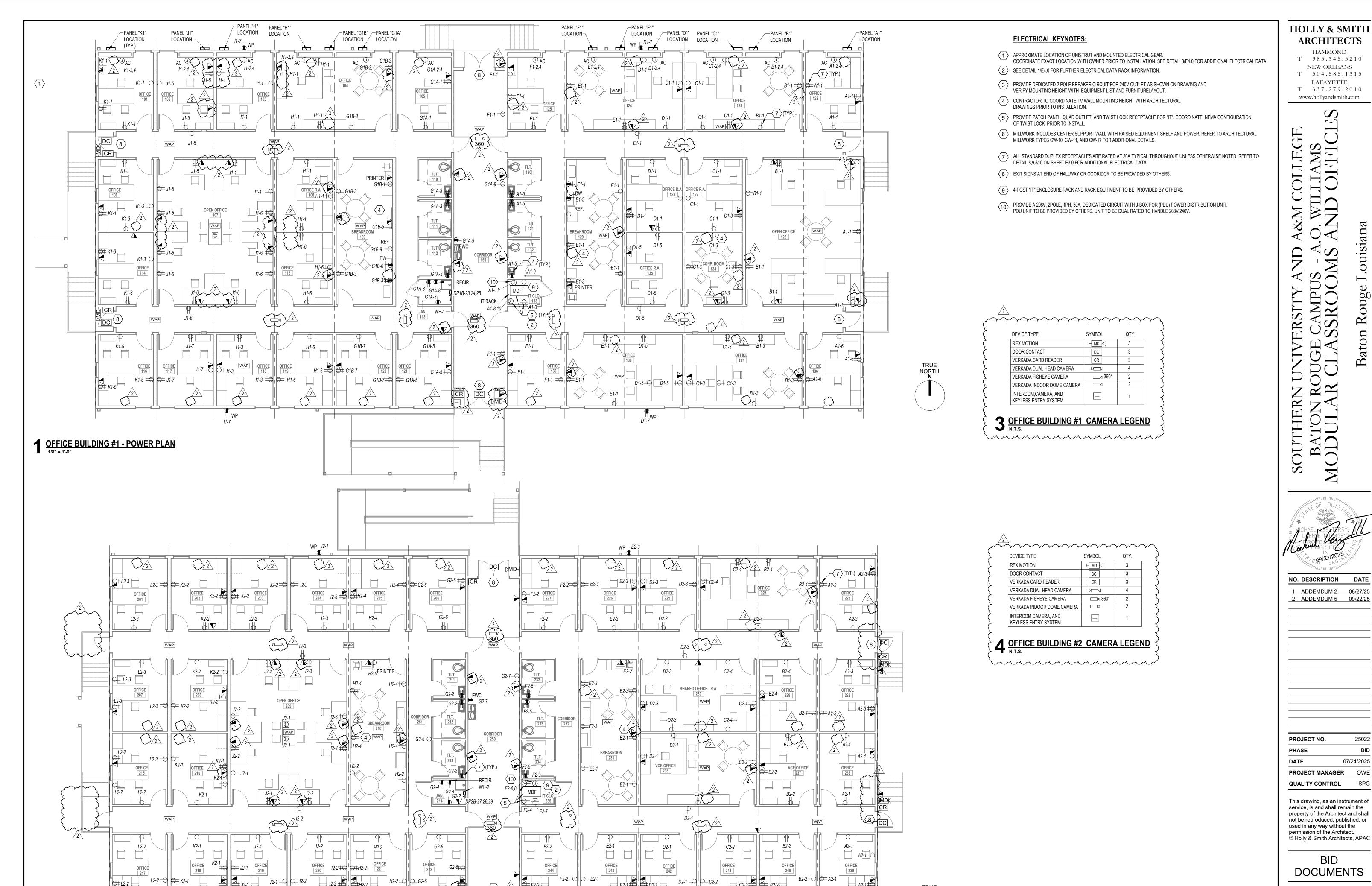
LOCATION-

/LOCATION—

PANEL "I2" PANEL "H2" LOCATION



07/24/2025



LOCATION-

LOCATION-

LOCATION-

PANEL "E2" LOCATION- LOCATION-

LOCATION-

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NORTH

POWER PLAN - OFFICE BUILDINGS

BID

HAMMOND

NEW ORLEANS

LAFAYETTE

PHOTOGRAPHS OF ALL GROUNDING TERMINATIONS. **7** DETAIL - GROUNDING TO BLDG STEEL N.T.S.

NOTE: CONTRACTOR SHALL SUBMIT DIGITAL

RESEARCH EQUIPMENT LEGEND (2)			RESEARC	TH AQUA EQUIPMENT LEGEND $\langle 2 angle$	
ND INSTALLLED BY OWNER UNLESS (OTHERWISE NOTED		FURNISHED) AND INSTALLLED BY OWNER UNLESS OTHER	RWISE NOTED
NAME	VOLTAGE	STD. FUSE OR BKR TRIP SIZE	MARK	NAME	VOLTA
MICROWAVE	120V	20A	Aq1	BIOSAFETY CAB	120
NIRS	120V	20A	Aq2	INCUBATOR	120
DUCTLESS FUME HOOD	120V	20A	Aq3	REAGENT REFRIGERATOR	120
SOIL OVEN	120V	20A	Aq4	REAGENT FREEZER	120
CLIMATE CHAMBERS	240V	20A	Aq5	DIRTY REFRIGERATOR	240
GROWTH CHAMB.	115V	20A	Aq6	GEL AREA	120
DEIONIZED WATER	120V	20A	Aq7	LAMINAR FLOW CABINET	120
AUTOCLAVE	120V	20A	Aq8	THERMAL CYCLER	220
FLOOR-MOUNTED CENTRIFUGE	220V	20A	Aq9	FLOOR-MOUNTED -80C FREEZER	220
BIOSAFETY CAB	120V	20A	Aq10	BENCHTOP BEAD BATH	120
			Aq11	BENCHTOP CENTRIFUGE	120
	NAME NAME MICROWAVE NIRS DUCTLESS FUME HOOD SOIL OVEN CLIMATE CHAMBERS GROWTH CHAMB. DEIONIZED WATER AUTOCLAVE FLOOR-MOUNTED CENTRIFUGE	NAME NAME VOLTAGE MICROWAVE 120V NIRS 120V DUCTLESS FUME HOOD SOIL OVEN CLIMATE CHAMBERS GROWTH CHAMB. DEIONIZED WATER AUTOCLAVE FLOOR-MOUNTED CENTRIFUGE 220V	NAME NAME VOLTAGE STD. FUSE OR BKR TRIP SIZE MICROWAVE 120V 20A NIRS 120V 20A DUCTLESS FUME HOOD 120V 20A SOIL OVEN CLIMATE CHAMBERS 240V 20A GROWTH CHAMB. 115V 20A DEIONIZED WATER 120V 20A AUTOCLAVE 120V 20A STD. FUSE OR BKR TRIP SIZE 20A 20A 20A 20A 20A 20A 20A 20	NAME	NAME VOLTAGE STD. FUSE OR BKR TRIP SIZE MICROWAVE 120V 20A NIRS 120V 20A Aq1 BIOSAFETY CAB NCUBATOR Aq2 INCUBATOR SOIL OVEN 120V 20A CLIMATE CHAMBERS 240V 20A DEIONIZED WATER 120V 20A DEIONIZED WATER 120V 20A Aq3 REAGENT FREEZER Aq5 DIRTY REFRIGERATOR Aq6 GEL AREA Aq7 LAMINAR FLOW CABINET AUTOCLAVE 120V 20A Aq8 THERMAL CYCLER Aq9 FLOOR-MOUNTED CENTRIFUGE 220V 20A Aq10 BENCHTOP BEAD BATH

FURNISHED A	ND INSTALLLED BY OWNER UNLESS (OTHERWISE NOTED	
MARK	NAME	VOLTAGE	STD. FUSE OR BKR TRIP SIZE
GI1	MICROWAVE	120V	20A
GI2	NIRS	120V	20A
GI3	DUCTLESS FUME HOOD	120V	20A
GI4	SOIL OVEN	120V	20A
GI5	CLIMATE CHAMBERS	240V	20A
GI6	GROWTH CHAMB.	115V	20A
GI7	DEIONIZED WATER	120V	20A
GI8	AUTOCLAVE	120V	20A
GI9	FLOOR-MOUNTED CENTRIFUGE	220V	20A
0140		4001/	

120/208V, 3P, 4W

UTILITY POLE XFMR

PROVIDED BY

OTHERS

METERING TO BE PROVIDED

208Y120V, 1PH,

3-WIRE, 125A

BUILDING

PANELS.

REFERENCE

PLANS FOR

QUANTITY. (TYP.)

STD. FUSE OR # OF

BKR TRIP SIZE SETS

<60>

(125)

<200>

400

125 1 3

3-WIRE FEEDER SCHEDULE

1 3#10 THWN, 1#10 GND

1 | 3#6 THWN, 1#8 GND

1 3#3 THWN, 1#8 GND

1 3#1 THWN, 1#6 GND

1 | 3#3/0 THWN, 1#4 GND

2 3#3/0 THWN, 1#3 GND

OTHER THAN THOSE LISTED ABOVE ARE USED.

"VD" INDICATES WIRE UPSIZED FOR VOLTAGE DROP.

"NG" INDICATES NO GROUND CONDUCTOR REQUIRED.

REQUIRED PER THEIR TABLES. ALL CONDUCTORS TO BE COPPER.

4 3-WIRE FEEDER SCHEDULE N.T.S.

2 3#350 THWN MCM, 1#1 GND

3 3#300 THWN MCM, 1#1/0 GND

ALL FEEDER SIZES LISTED MAY NOT BE SHOWN IN POWER RISER

ELECTRICAL CONTRACTOR TO VERIFY SIZE REQUIRED IF WIRE TYPES

REFER TO THE LATEST EDITION OF THE NEC FOR CONDUIT TYPES

3#1/0 THWN, 1#6 GND

WIRE QUANTITY AND SIZE

LOCATIONS

BY SOUTHERN UNIVERSITY.

208Y/120V,3PH,4-WIRE,600A

208Y/120V,3PH,4-WIRE,1000A

PANEL

"DP1A"

3-WIRE, 125A

BUILDING

PANELS.

REFERENCE

PLANS FOR

LOCATIONS

QUANTITY.

CLASSROOM BUILDINGS ELECTRICAL RISER DIAGRAM

4-WIRE FEEDER SCHEDULE

4#10 THWN, 1#10 GND

4#6 THWN, 1#8 GND

4#3 THWN, 1#8 GND

4#1 THWN, 1#6 GND

4#1/0 THWN, 1#6 GND

4#3/0 THWN, 1#4 GND

2 4#250 THWN MCM, 1#2 GND

600 2 4#350 THWN MCM, 1#1 GND 3"

4#300 THWN MCM, 1#1/0 GND

ALL FEEDER SIZES LISTED MAY NOT BE SHOWN IN POWER RISER

ELECTRICAL CONTRACTOR TO VERIFY SIZE REQUIRED IF WIRE TYPES

BUILDING STEEL ...

—BONDING

STEEL REINFORCING

MATERIAL IN SLAB

REFER TO THE LATEST EDITION OF THE NEC FOR CONDUIT TYPES

3 4#350 THWN MCM, 1#2/0 GND

3 4#400 THWN MCM, 1#2/0 GND

NOTES:

OTHER THAN THOSE LISTED ABOVE ARE USED.

"VD" INDICATES WIRE UPSIZED FOR VOLTAGE DROP. "NG" INDICATES NO GROUND CONDUCTOR REQUIRED.

ELECTRODE CONDUCTOR

METAL WATER PIPE

REQUIRED PER THEIR TABLES.

3 4-WIRE FEEDER SCHEDULE
N.T.S.

JUMPER

—GROUND ROD

✓ 3/4"X10' COPPER

ALL CONDUCTORS TO BE COPPER.

WIRE QUANTITY AND SIZE

CONDUIT SIZE

(MINIMUM)

3/4"

1-1/4"

1-1/4"

1-1/2"

2"

 $\langle 125 \rangle \langle 1 \rangle$

SEE PANEL SCHEDULES FOR

CONDUIT AND CONDUCTOR

STD. FUSE OR # OF

BKR TRIP SIZE | SETS

100

125

150

INFORMATION. (TYPICAL)

120/208V, 3P, 4W

UTILITY POLE XFMR

PROVIDED BY

OTHERS

PRIMARY VOLTAGE CONDUIT, PER SUBR

BY OTHERS. (TYP.)

UTILITY STANDARDS. SIZED AND PROVIDED

CONDUIT SIZE

(MINIMUM)

1-1/4"

1-1/4"

1-1/2"

2-1/2"

208Y/120V,3PH,4-WIRE,500A

 \sim

2 500

PANEL

DP1A

3-WIRE, 125A

PANELS.

REFERENCE

PLANS FOR

LOCATIONS

QUANTITY.

(TYP.)

125 1

MODULAR BUILDING PANELS SHALL BE BURIED UNLESS OTHERWISE NOTED.

1PH

5 LOAD CENTERS SCHEDULE DP1A & DP1B N.T.S.

DISTRIBUTION | LOAD CENTER | PHASE

A3

C3

D3

E3

F3

G3

CONTRACTOR NOTE: THE FEEDERS BETWEEN THE VARIOUS DISTRIBUTION PANELS AND THE

	GI10	BIOSAFETY CAB	120V	:
8	RESEARCH	I GENERAL EQUIPM	IENT LEGEI	<u>ND</u>

MARK	NAME	VOLTAGE	STD. FUSE OR BKR TRIP SIZE
Aq1	BIOSAFETY CAB	120V	20A
Aq2	INCUBATOR	120V	20A
Aq3	REAGENT REFRIGERATOR	120V	20A
Aq4	REAGENT FREEZER	120V	20A
Aq5	DIRTY REFRIGERATOR	240V	20A
Aq6	GEL AREA	120V	20A
Aq7	LAMINAR FLOW CABINET	120V	20A
Aq8	THERMAL CYCLER	220V	20A
Aq9	FLOOR-MOUNTED -80C FREEZER	220V	20A
Aq10	BENCHTOP BEAD BATH	120V	20A
Aq11	BENCHTOP CENTRIFUGE	120V	20A
Aq12	NANODROP SPECTROPHOTOMETER	12V DC	20A
Aq13	MICROSCOPE	120V	20A
Aq14	BENCHTOP BALANCE	120V	20A
Aq15	BENCHTOP SPECTROPHOTOMETER	120V	20A
	1	1	l .

			D
Aq1	BIOSAFETY CAB	120V	20A
Aq2	INCUBATOR	120V	20A
Aq3	REAGENT REFRIGERATOR	120V	20A
Aq4	REAGENT FREEZER	120V	20A
Aq5	DIRTY REFRIGERATOR	240V	20A
Aq6	GEL AREA	120V	20A
Aq7	LAMINAR FLOW CABINET	120V	20A
Aq8	THERMAL CYCLER	220V	20A
Aq9	FLOOR-MOUNTED -80C FREEZER	220V	20A
Aq10	BENCHTOP BEAD BATH	120V	20A
Aq11	BENCHTOP CENTRIFUGE	120V	20A
Aq12	NANODROP SPECTROPHOTOMETER	12V DC	20A
Aq13	MICROSCOPE	120V	20A
Aq14	BENCHTOP BALANCE	120V	20A
Aq15	BENCHTOP SPECTROPHOTOMETER	120V	20A
Aq16	ICE MACHINE	120V	20A

9 RESEARCH AQUA EQUIPMENT LEGEND N.T.S.

10 RESEARCH TEXTILE EQUIPMENT LEGEND N.T.S.

AVERAGE (FC)

50

50

40

50

20

25

20

50

25

25

EQUIPMENT PRIOR TO BID AND PURPOSE. ROUTE PRIMARY FEED TO SERVICE RATED DISCONNECT SWITCH TO WIREWAY TO DISTRIBUTION PANELS SUPPORTED ON UNISTRUT. REFER TO DETAIL 3/E4.0 FOR FURTHER ELECTRICAL DATA.

ELECTRICAL KEYNOTES:

1 REFER TO MODULAR BUILDING PANEL CHART FOR

VERIFY ALL RESEARCH EQUIPMENT VOLTAGES AND CIRCUIT BREAKER AMPACITY OF BREAKER WITH

BREAKER SIZES. SEE DETAIL 5&6 / E3.0

2 AVERAGE FOOTCANDLE CHART N.T.S.

LIGTHTING (AREAS)

MODULAR TECH LABS

OFFICES

208Y120V, 1PH,

3-WIRE

BUILDING

PANELS.

REFERENCE

PLANS FOR

LOCATIONS

QUANTITY.

125 1

(TYP.) U.O.N.

FINISHED GRADE

LOAD CENTER | STD. FUSE OR

BKR TRIP SIZE

125

125

125

125

125

125

125

125

125

125

125

208Y/120V,3PH,4-WIR**Ç**,1000A

"DP2B"

<u>^2</u> { 1000 }

MODULAR BUILDING PANELS

BKR TRIP SIZE

125

125

175

175

300

125

125

150

125

125

125

STD. FUSE OR | DISTRIBUTION | PHASE |

PANEL

DP1B

1PH

1PH

1PH

1PH

1PH

1PH

1PH

1PH

OPEN OFFICES

BREAK ROOM

LAUNDRY

TEXTILE

RESTROOM

STORAGE

CORRIDORS

MODULAR BUILDINGS PANELS

DISTRIBUTION PANEL	LOAD CENTER	PHASE	STD. FUSE OR BKR TRIP SIZE	DISTRIBUTION PANEL	PHASE	LOAD CENTER	STD. FUSE OR BKR TRIP SIZE
DP2A	A4	1PH	125	DP2B	1PH	A2	125
	B4	1PH	125		1PH	B2	125
	C4	1PH	125		1PH	C2	125
	D4	1PH	125		1PH	D2	125
	E4	1PH	125		1PH	E2	125
	F4	1PH	125		1PH	F2	125
	G4	1PH	125		1PH	G2	125
	H4	1PH	125		1PH	H2	125
	14	1PH	125		1PH	12	250
					1PH	J2	125
					1PH	K2	125
					1PH	L2	125

6 LOAD CENTERS SCHEDULE DP2A & DP2B N.T.S.

RESEARCH TEXTILE EQUIPMENT LEGEND (2)

MARK	NAME	VOLTAGE	STD. FUSE OR BKR TRIP SIZE
Tx1	DECORTICATOR (HEMP)	240V	20A
Tx2	COMBING MACHINE	240V	20A
Tx3	ROTOR SPINNING MACHINE	240V	20A
Tx4	TWISTING MACHINE	240V	20A
Tx5	INSPECTION MACHINE	240V	20A
Tx6	SANITARY NAPKIN MACHINE	240V	20A
Tx7	WASHING SYSTEM (WOOL/ ALPACA)	240V	20A
Tx8	RING SPINNING FRAME	240V	20A
Tx9	OPENER	240V	20A
Tx10	ROVING MACHINE	240V	20A
Tx11	WINDING MACHINE	240V	20A
Tx12	KNITTER	240V	20A
Tx13	DRAWING FRAME	240V	20A
Tx14	NONWOVEN NEEDLE MACHINE	240V	20A
Tx15	RAPIER WEAVING LOOM	240V	20A
Tx16	SINGLE YARN WARPING MACHINE	240V	20A
Tx17	CARDING MACHINE	240V	20A
Tx18	AC POWER SOURCE	240V	20A

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PROJECT NO.

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BID **DOCUMENTS**

E3.0

RISER DIAGRAM & SCHEDULES

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Branch Panel: DP1A Location:

Supply From: Mounting: FREESTANDING Enclosure: NEMA-3R

Volts: 208Y/120 Phases: 3 Wires: 4

A.I.C. Rating: 25,000 Mains Type: MCB Mains Rating: 1200 A
MCB Rating: 1000 A

SERVICE ENTRANCE RATED

СКТ	Circuit Description	Trip	Poles	Α	В	С
1,2	PANEL "A3"	125 A	2	11514 VA	9054 VA	
3,4	PANEL "B3"	125 A	2	7130 VA		8110 VA
5,6	PANEL "C3"	175 A	2		14846 VA	13846 VA
7,8	PANEL "D3"	125 A	2	1664 VA	1664 VA	
9,10	PANEL "E3"	250 A	2	20854 VA		22054 VA
11,12	PANEL "K3"	125 A	2		9998 VA	8390 VA
13,14	PANEL "F3"	125 A	2	6396 VA	5576 VA	
15,16	PANEL "H3"	150 A	2	10054 VA		12554 VA
17,18	PANEL "I3"	125 A	2		10558 VA	7066 VA
19,20	PANEL "J3"	125 A	2	9370 VA	9490 VA	
21,22	PANEL "D3"	125 A	2	15350 VA		17810 VA
23,24	PANEL "G3"	125 A	2		9706 VA	8976 VA
25,26,27	WH-3	70 A	3	6000 VA	6000 VA	6000 VA
28						
29						
30						
			Total Load:	88329 VA	76887 VA	104802 VA
			Total Amps:	750.74 A	640.73 A	888.02 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Totals
Motor	360 VA	112.50%	405 VA		
Other	176882 VA	100.00%	176882 VA	Total Conn. Load:	270017 VA
Receptacle	40620 VA	62.31%	25310 VA	Total Est. Demand:	256589 VA
Lighting	7355 VA	125.00%	9194 VA	Total Conn. Current:	749.49 A
Miscellaneous	17156 VA	100.00%	17156 VA	Total Est. Demand Current:	712.22 A
Water Heating	18000 VA	100.00%	18000 VA		
HVAC	9651 VA	100.00%	9651 VA		

Branch Panel: DP1B A.I.C. Rating: 25,000 Location: Volts: 208Y/120 Supply From: Phases: 3 Mains Type: MCB Mains Rating: 600 A Mounting: FREESTANDING Wires: 4 Enclosure: NEMA-3R MCB Rating: 600 A

SERVICE ENTRANCE RATED

CKT	Circuit Description	Trip	Poles	Α	В	С
1,2	PANEL "A1"	125 A	2	8846 VA	7686 VA	
3,4	PANEL "B1"	125 A	2	5366 VA		6606 VA
5,6	PANEL "C1"	125 A	2		6706 VA	6266 VA
7,8	PANEL "D1"	125 A	2	7346 VA	5786 VA	
9,10	PANEL "E1"	125 A	2	5006 VA		7926 VA
11,12	PANEL "F1"	125 A	2		6266 VA	5316 VA
13,14	PANEL "G1"	125 A	2	5966 VA	6816 VA	
15,16	PANEL "H1"	125 A	2	5476 VA		7166 VA
17,18	PANEL "I1"	125 A	2		6946 VA	5726 VA
19,20	PANEL "J1"	125 A	2	6806 VA	6166 VA	
21,22	PANEL "K1"	125 A	2	6030 VA		6946 VA
23,24,25	WH-1	25 A	3	2000 VA	2000 VA	2000 VA
26,27	PANEL "G1A"	20 A	2		6576 VA	6443 VA
28	SPARE	20 A	1	0 VA		
29	SPARE	20 A	1		0 VA	
30	SPARE	20 A	1			0 VA
			Total Load:	52838 VA	54944 VA	54390 VA
			Total Amps:	440.32 A	459.86 A	455.24 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Totals
Other	500 VA	100.00%	500 VA		
Receptacle	28740 VA	67.40%	19370 VA	Total Conn. Load:	162172 VA
Lighting	8124 VA	125.00%	10155 VA	Total Est. Demand:	154832 VA
Miscellaneous	3000 VA	100.00%	3000 VA	Total Conn. Current:	450.14 A
Water Heating	6000 VA	100.00%	6000 VA	Total Est. Demand Current:	429.77 A
HVAC	115812 VA	100.00%	115812 VA		

Branch Panel: DP2A Location: LAB #14 406 Supply From: Mounting: FREESTANDING Enclosure: NEMA-3R

Volts: 208Y/120 Phases: 3 Wires: 4

A.I.C. Rating: 25,000 Mains Type: MCB Mains Rating: 800 A
MCB Rating: 500 A

SERVICE ENTRANCE RATED

СКТ	Circuit Description	Trip	Poles	Α	В	С
1,2	A4	125 A	2	6446 VA	4826 VA	
3,4	B4	125 A	2	6626 VA	1020 771	6446 VA
5,6	C4	125 A	2		13431 VA	11271 VA
7,8	D4	125 A	2	2160 VA	2160 VA	
9,10	E4	125 A	2	8936 VA		9696 VA
11,12	F4	125 A	2		7166 VA	4826 VA
13,14	G4	125 A	2	6986 VA	5906 VA	
15,16	H4	125 A	2	6086 VA		5916 VA
17,18	14	125 A	2		7166 VA	5366 VA
19,20,21	WH-4	25 A	3	2000 VA	2000 VA	2000 VA
22	SPARE	20 A	1	0 VA		
23	SPARE	20 A	1		0 VA	
24	SPARE	20 A	1			0 VA
25	SPARE	20 A	1	0 VA		
26	SPARE	20 A	1		0 VA	
27	SPARE	20 A	1			0 VA
28	SPARE	20 A	1	0 VA		
29	SPARE	20 A	1		0 VA	
30	SPARE	20 A	1			0 VA
			Total Load:	39238 VA	42653 VA	45519 VA
			Total Amps:	326.98 A	359.82 A	383.7 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	360 VA	112.50%	405 VA	
Other	87859 VA	100.00%	87859 VA	Total Conn. Load: 127409 VA
Receptacle	27000 VA	68.52%	18500 VA	Total Est. Demand: 119002 VA
Lighting	200 VA	125.00%	250 VA	Total Conn. Current: 353.65 A
Miscellaneous	6000 VA	100.00%	6000 VA	Total Est. Demand Current: 330.32 A
Water Heating	6000 VA	100.00%	6000 VA	

Branch Panel: DP2B

Location: LAB #14 406 Supply From: Mounting: SURFACE Enclosure: NEMA-3R

Volts: 208Y/120 Phases: 3 Wires: 4

A.I.C. Rating: 25,000 Mains Type: MCB
(Mains Rating: 1200 A MCB Rating: 1000 A

1

SERVICE ENTRANCE RATED

CKT	Circuit Description	Trip	Poles	Α	В	С
1,2	PANEL "A4"	125 A	2	9100 VA	9100 VA	
3,4	PANEL "B4"	125 A	2	9100 VA		9100 VA
5,6	PANEL "C4"	125 A	2		9100 VA	9100 VA
7,8	PANEL "D4"	125 A	2	9100 VA	9100 VA	
9,10	PANEL "E4"	125 A	2	9100 VA		9100 V
11,12	PANEL "F4"	125 A	2		9100 VA	9100 V
13,14	PANEL "G4"	125 A	2	9100 VA	9100 VA	
15,16	PANEL "H4"	125 A	2	9100 VA		9100 V
17,18	PANEL "I4"	125 A	2		9100 VA	9100 V
19,20	PANEL "J4"	125 A	2	9100 VA	9100 VA	
21,22	PANEL "K4"	125 A	2	9100 VA		9100 V
23,24	PANEL "L4"	125 A	2		9100 VA	9100 V
25,26	PANEL "E2"	125 A	2	6086 VA	6086 VA	
27,28,29	WH-2	25 A	3	2000 VA	2000 VA	2000 V
30,31	PANEL "G2"	125 A	2	5546 VA		7523 V
32	SPACE		1			
33	SPACE		1			
34	SPACE		1			
35	SPACE		1			
36	SPACE		1			
37	SPACE		1			
38	SPACE		1			
39	SPACE		1			
40	SPACE		1			
41	SPACE		1			
42	SPACE		1			
43	SPACE		1			
44	SPACE		1			
45	SPACE		1			
46	SPACE		1			
47	SPACE		1			
48	SPACE		1			
			Total Load:	86431 VA	80886 VA	82322 V

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel ⁻	Totals
Receptacle	5400 VA	100.00%	5400 VA		
Spare	218400 VA	100.00%	218400 VA	Total Conn. Load:	249638 VA
Lighting	557 VA	125.00%	696 VA	Total Est. Demand:	249772 VA
Water Heating	6000 VA	100.00%	6000 VA	Total Conn. Current:	692.93 A
HVAC	19302 VA	100.00%	19302 VA	Total Est. Demand Current:	693.3 A
Notes:	1	1		,	





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SOUTHERN UNIVERSITY AND A&M COLLEGE BATON ROUGE CAMPUS - A.O. WILLIAMS IODULAR CLASSROOMS AND OFFICE

Louisiana

Rouge

Baton

MC

NO. DESCRIPTION DATE 1 ADDEMDUM 5 09/22/25

PROJECT NO.

07/24/2025 PROJECT MANAGER OWE

QUALITY CONTROL SPG

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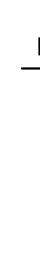
DOCUMENTS

PANEL SCHEDULES

—CAT 6 DATA CABLES BY OTHERS TO

0" ½" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

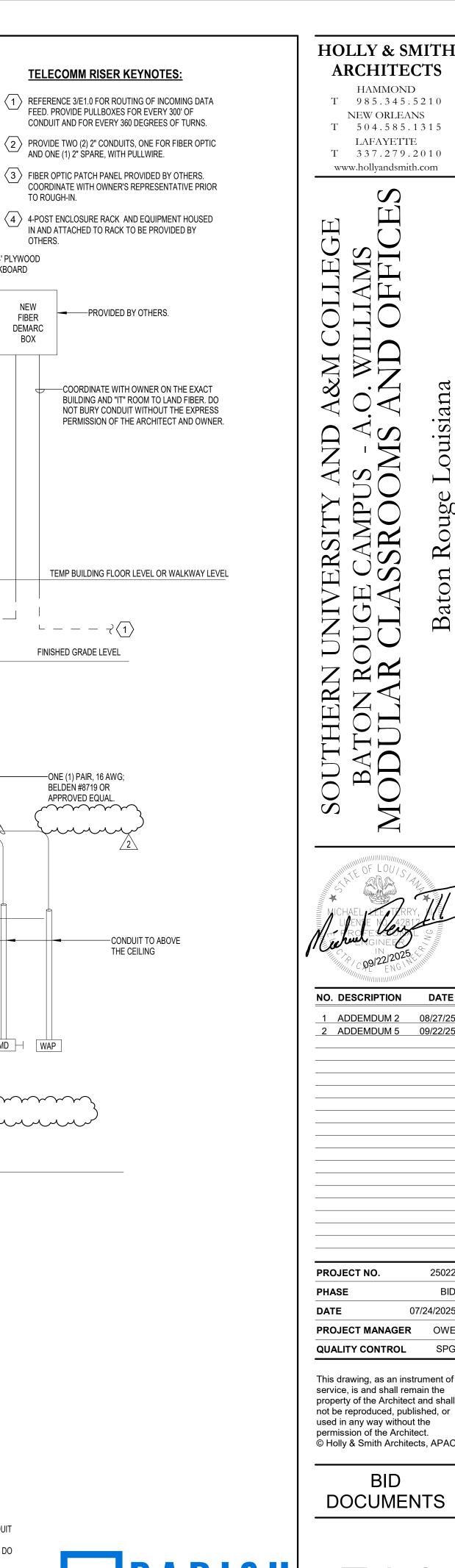
VOICE AND DATA OUTLETS



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NO. DESCRIPTION DATE 1 ADDEMDUM 2 08/27/25 2 ADDEMDUM 5 09/22/25

PROJECT NO.

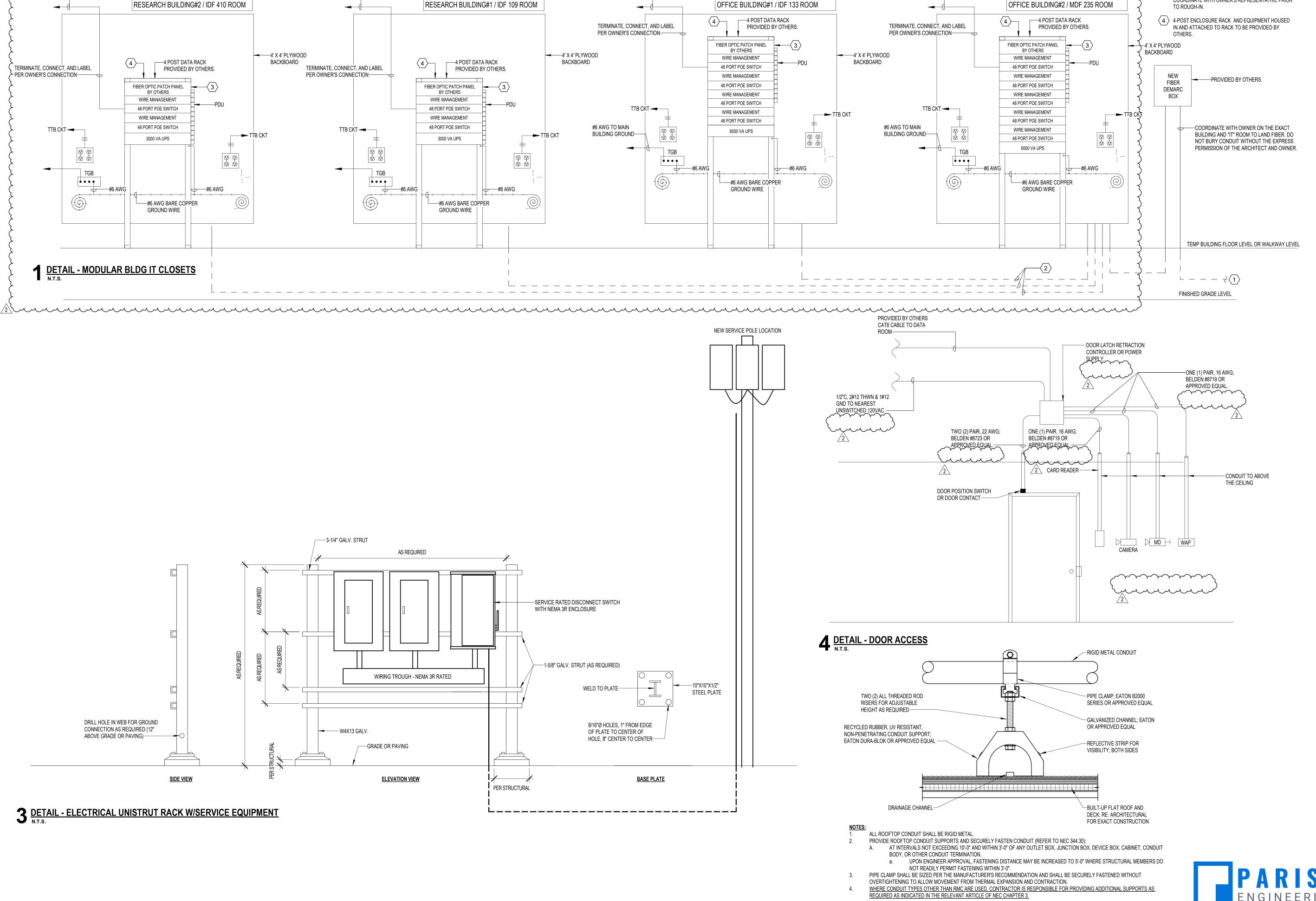
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DOCUMENTS

E4.0

ELECTRICAL DETAILS



CAT 6 DATA CABLES BY OTHERS TO

VOICE AND DATA OUTLETS

CAT 6 DATA CABLES BY OTHERS TO

VOICE AND DATA OUTLETS

2 DETAIL - CONDUIT SUPPORT ON ROOF
N.T.S.

CONTRACTOR'S ATTENTION:

SUPPLIES AS REQUIRED.

—CAT 6 DATA CABLES BY OTHERS TO

VOICE AND DATA OUTLETS

PROVIDE PATCH PANELS, JUMPER

CABLES, AND REDUNDANT POWER

SECTION 27 00 50 - ACCESS CONTROL, CAMERA, INTERCOM

PART 1 - GENERAL

1.1 SUMMARY

A. This section includes the provision of access control, video surveillance, and intercom system for the A.O. Williams Modular Campus and Gate project.

1.2 REFERENCES

A. All equipment provided is compliant with applicable U.S. and international standards. Below is a list of the referenced models and their certifications:

1. CH52-E - Multisensor Security Camera

- Certifications: FCC, ICES, CE, UKCA, RCM, VCCI, KCC, NOM, CB, NTRA, ICASA, UL/cUL/IEC
- 62368-1
- Ratings: IK10 impact, IP66 weatherproof
- Compliance: FY2019 NDAA Compliant

2. CD43 – Indoor Dome Security Camera

- Certifications: FCC, ICES, UKCA, CE, RCM, NOM, VCCI, KCC, ICASA
- Ratings: IK08 impact
- Compliance: UL 2043, FY2019 NDAA Compliant

3. CD43-E - Outdoor Dome Security Camera

- Certifications: FCC, ICES, UKCA, CE, RCM, NOM, VCCI, KCC
- Ratings: IK10 impact, IP66/IP67 weatherproof
- Compliance: UL 2043, FY2019 NDAA Compliant

4. **CY53-E – Two-Camera Multisensor**

- Certifications: FCC, ICES, CE, UKCA, RCM, NTRA, NOM, VCCI, KCC, UL/cUL/IEC 62368-1
- Ratings: IK10 impact, IP66/IP67 weatherproof

5. **CF83-E – Fisheye Security Camera**

Certifications: FCC, ICES, CE, UKCA, VCCI, NOM, NTRA, BSMI, KCC, ICASA, UL/cUL/IEC

6. **62368-1**

- Ratings: IK10 impact, IP66/IP67 weatherproof
- Compliance: FY2019 NDAA Compliant

7. TD53 – Video Intercom

- Certifications: FCC, ICES, CE, UKCA, RCM, ICASA, VCCI, UL 294, CAN/ULC 60839-11-1:2022. UL/IEC 62368-1. CSA NO22.2 62368-1
- Ratings: IK08 impact, IP66 weatherproof
- Compliance: ULC-60839-11-1 Outdoor

8. **AD34 – Door Reader**

- Certifications: FCC, ICES, CE, RCM, VCCI, KCC, NOM, NBTC, NTRA, BSMI/WPC, IMDA, UL 294, UL 62368–1/CSA C22.2, CAN/ULC-60839– 11–1:2016
- AC42 4-Door Controller
- Certifications: FCC, ICES, UKCA, CE, RCM, VCCI, KCC, BIS, NOM,

UL/cUL/IEC 62368-1

Compliance: FY2019 NDAA Compliant

9. **AC12 – One-Door Controller**

- Certifications: FCC, ICES, UKCA, CE, RCM, VCCI, KCC, BIS, NOM, UL/cUL/IEC 62368-1
- Ratings: UL 2043
- Compliance: FY2019 NDAA Compliant

1.3 SUBMITTALS

- A. The contractor shall submit the following:
 - 1. Product datasheets
 - 2. Mounting and wiring diagrams
 - 3. Floorplans showing the location and type of each device (camera, intercom, and access control)

1.4 QUALITY ASSURANCE

- A. All equipment shall be:
 - 1. New and unused
 - 2. Covered under active licenses for 3 years
 - 3. Compliant with applicable safety and IT standards
 - 4. Installed and commissioned by qualified personnel
 - Warrantied for 3 years.
 - 6. Any subscription fees shall be paid for 3 years.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Access control, camera, and intercom equipment shall be manufactured by VERKADA. Prior approvals shall be considered, so long as the submission meets the requirements of the university's front-end documents.
- B. Equipment listed below are the basis of design for this project. Approved equals will be accepted.

2.2 VIDEO SURVEILLANCE EOUIPMENT

HAF	RDWARE	DESCRIPTION
1.	CDOM-01-3Y	Indoor Dome Camera, 5MP, 3-Year License
2.	CDOM-EXT-01-3Y	Outdoor Dome Camera, 5MP, 3-Year License
3.	CDOM-OUT-01-3Y	Outdoor Dome Camera w/ Outdoor-rated Cable, 3-Year Lic
4.	CQUAD-01-3Y	Multisensor 20MP Quad Camera, 3-Year License
5.	CJBOX-01	Dome Camera Junction Box
6.	CMNT-WM-01	Wall Mount Arm
7.	CMNT-OUTD-01	Outdoor Rated Mounting Adapter
*Or	approved equal	

2.3 ACCESS CONTROL EQUIPMENT

HAR	DWARE	DESCRIPTION
1.	CONT-4DR-01	Door Controller, 4-Door
2.	CONT-8DR-01	Door Controller, 8-Door
3.	PANEL-KIT-01	Pre-Wired Access Control Panel Kit
4.	STRIKE-12V-01	Electric Strike, 12V
5.	RDR-BLK-01	Card Reader, Black

DOOR-KIT-01 *Or approved equal

Door Contact Sensor Kit

INTERCOM SYSTEM 2.4 **HARDWARE**

INTERCOM-01-3Y 1.

CJBOX-INTERCOM-01

Video Intercom Device with 3-Year License

Intercom Junction Box

2.5 **CABLES G ACCESSORIES HARDWARE**

*Or approved equal

DESCRIPTION

DESCRIPTION

CAB-KIT-INSTALL 1.

Camera C Door Accessory Kit (Indoor/Outdoor)

*Or approved equal

PART 3 - EXECUTION

3.1 **INSTALLATION**

- A. All equipment shall be installed by a factory trained technician.
- B. Cameras shall be mounted in accordance with manufacturer guidelines using appropriate brackets, junction boxes, and weather-rated cabling where required.
- Door controllers and readers shall be installed at identified access points, and cabling C. shall follow ANSI/TIA standards.
- D. Video intercom shall be installed in the locations specified by the owner.

3.2 SYSTEM START-UP AND COMMISSIONING

- A. All devices shall be activated and licensed for a term of 3 years from the date of commissioning.
- В. A factory trained and certified technician shall perform system configuration and ensure connectivity of all cameras, intercom, and access control endpoints.
- C. Testing shall include video streaming, access control response, and intercom functionality.
- D. Shall include all necessary software and hardware to integrate into Southern's systems.
- E. All subscription fees shall be paid in full for three years.

TRAINING 3.3

- A. Provide a minimum of 4 hours of training to the owner's personnel for each of the systems (camera, intercom, and access control. The training shall be video taped and turned over to the owner for their use.
- B. Training will include access to the web-based management platform, event retrieval, and basic administrative tools.

3.4 **DOCUMENTATION**

A. Product datasheets shall be submitted as part of the documentation package. B. A system diagram indicating device placement will be included.

END OF SECTION 27 00 50



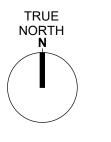
CONTRACTOR'S ATTENTION:

PRIOR TO ROUGH-IN, COMPLETE A SURVEY OF ALL UNDERGROUND UTILITIES IN THE AREA, FENCES, LIGHT POLES, AND OTHER OBSTRUCTIONS THAT MAY CONFLICT WITH THE ELECTRICAL EQUIPMENT LOCATIONS AND BRING ANY CONFLICTS TO THE ATTENTION OF THE ENGINEER/OWNER'S REPRESENTATIVE FOR RESOLUTION.

 $\frac{\text{VICINITY MAP}}{\text{N.T.s.}}$



2 SITE PLAN N.T.S.





NO. DESCRIPTION DATE

1 ADDEMDUM 2 08/27/25

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PROJECT MANAGER OWE **QUALITY CONTROL** SPG

PROJECT NO.

PHASE

OVERALL TEMP BUILDINGS -SITE PLAN

07/24/2025

RESEARCH BUILDING #1

+----

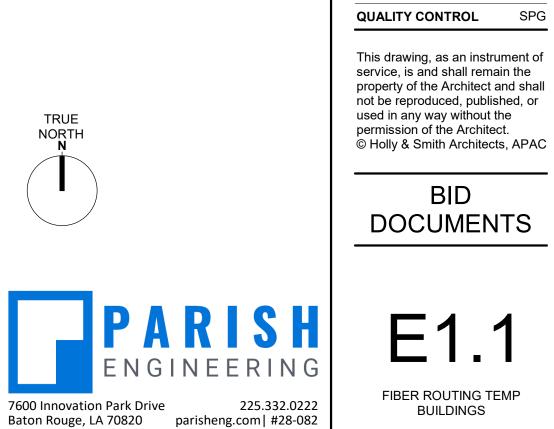
RESEARCH BUILDING #2

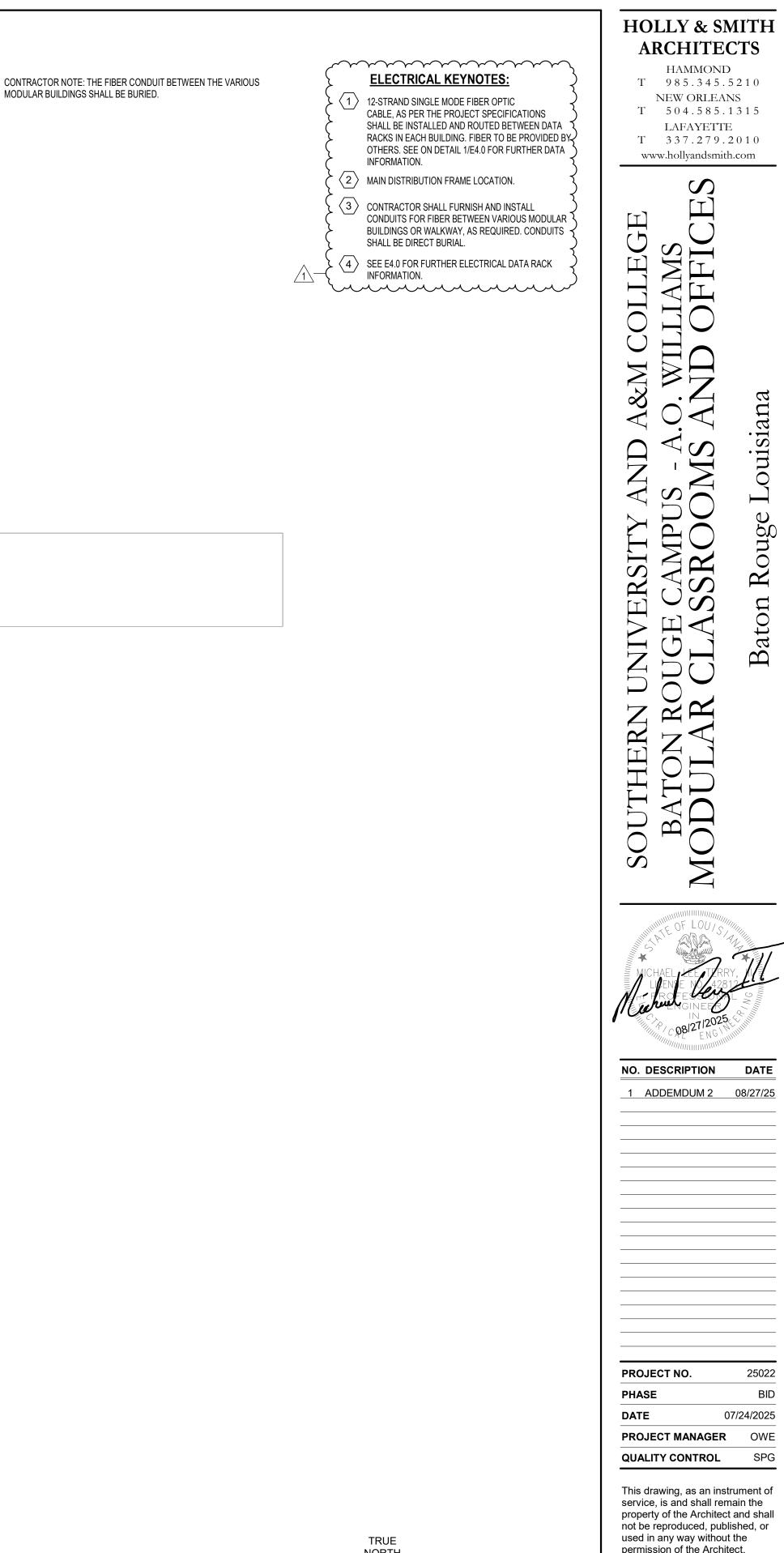
OVERALL BUILDING 1- 4 - SITE PLANS
1" = 20'-0"

1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

OFFICE BUILDING #1

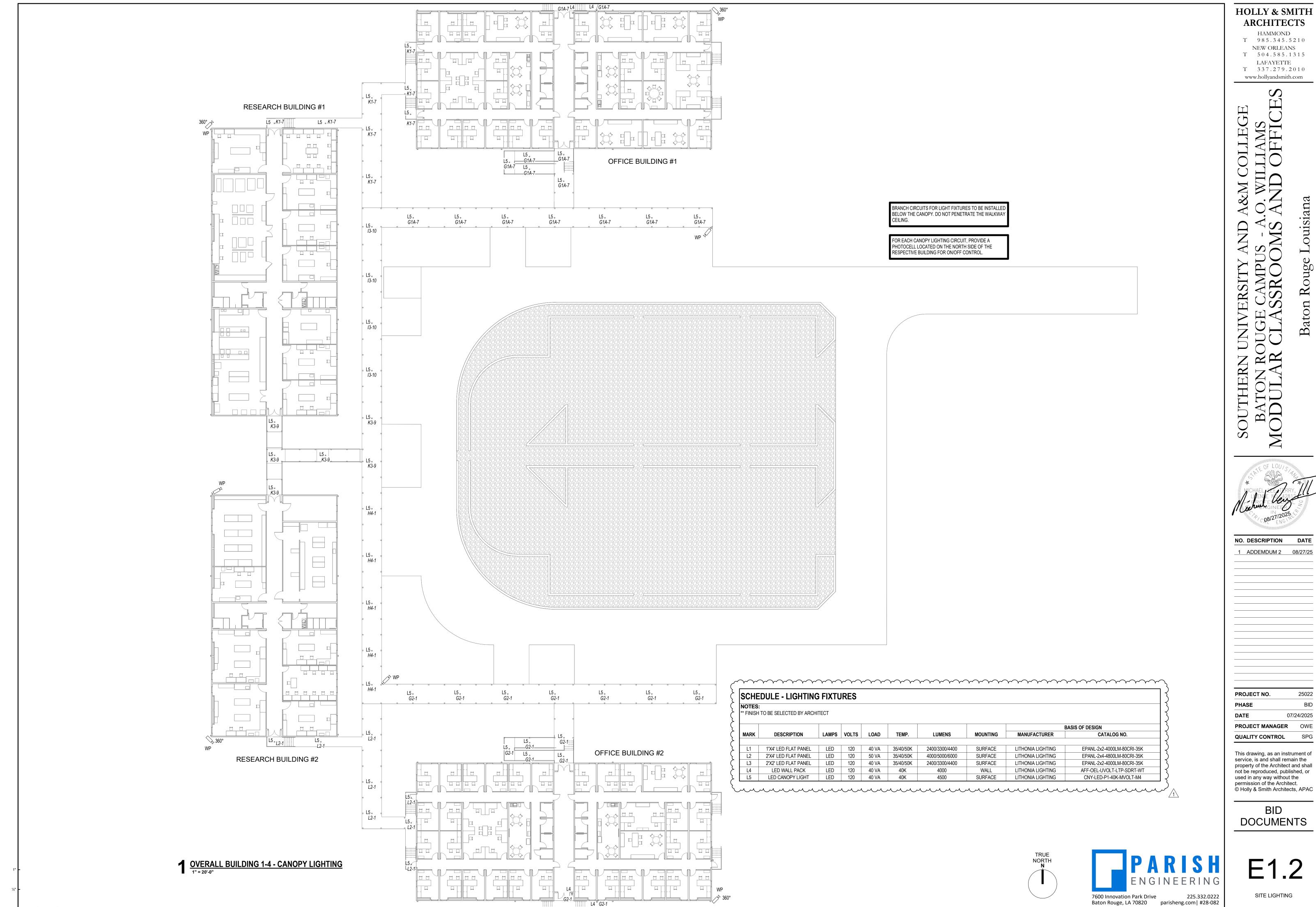
OFFICE BUILDING #2





MODULAR BUILDINGS SHALL BE BURIED.

FIBER ROUTING TEMP



0" ½" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

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Louisiana

Rouge

E1.2

BID

BID

07/24/2025

SITE LIGHTING

 $\langle 1 \rangle$

≥<u>___</u>220V

■ B3-1,3

240V Tx13

3 240V

D3-16,18

| | E3-14 |

F3-2,4

∐|F3-6,8____

240V Tx14

PANEL "A3"

LOCATION

PANEL "B3"

LOCATION -_

(TYP.)—

PANEL "C3" LOCATION-

PANEL "D3"

LOCATION-

PANEL "E3" LOCATION-

PANEL "F3"

LOCATION—

PANEL "G3"

LOCATION-

LOCATION-

LOCATION-

PANEL "J3" LOCATION —

PANEL "K3" LOCATION— __A3-9__

A3-9 A3-9 A3-9 A3-9

LAB #6

240V Tx15

Tx10 / Tx11

DP1A-7,8 D3-5,7 Tx12 240V 3 D3-6,8

240V 240V 240V D3-9,11 D3-10,12 Tx1 Tx2 Tx3

E3-2,4 E3-5,7 Tx6 240V E3-6,8 E3-9,11 E3

E3-20 E3-20 E3-20

240V 240V

E3-13,15 E3-10,12

RESTROOM

H3-4 H3-4 H3-4 H3-4 12VDC 12VDC

⇒ 13-5 E3-25 E3-25 E3-25 E3-25 E3-25

RESEARCH BUILDING #1- POWER PLAN
1/8" = 1'-0"

0" ½" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

₩ H3-4

WAP

220V B3-6

240V Tx16

—FLOOR BOX (TYP.)

Tx17

- -C3-16---□|

D3-14+

E3-14 🚤

E3-14 🚤

CORRIDOR 350

H3-2 H3-4

J3-6 ‡

J3-6 ‡

LAB #5

9

A3-6,8

C3-16

E3-16,18

E3-22,24

E3-23

E3-23 H

E3-17

E3-17

OPEN OFFICE _

B3-5

_____C3-13_______C3-13_______C3-13

 $\overline{0} \mathbf{V} \overline{0}$

E3-17 E3-17

1312 WAP

RESTROOM

D3-17 | D3-14 D3-14 |

 \bigcirc

E3-3 E3-23 E3-23

E3-23 E3-17 E3-17

J3-8 J3-8

 $\Phi \Delta \Phi$

__J3-10_J3-10_

K3-6

MICROWAVE

C3-13

₩ E3-3

J3-9 + |

TRUE

NORTH

A4-3,5

LAB #14 406

C4-3

LAB #15 405 WAP

D4-1

____C4-3___

C4-1

C4-8,10

C4-3

WAP

PANEL "A4"

LOCATION

(TYP.)---

PANEL "B4"

LOCATION-

PANEL "C4"

LOCATION-

PANEL "D4"

LOCATION —

PANEL "E4"

PANEL "F4"

LOCATION—

PANEL "G4" LOCATION-

PANEL "H4"

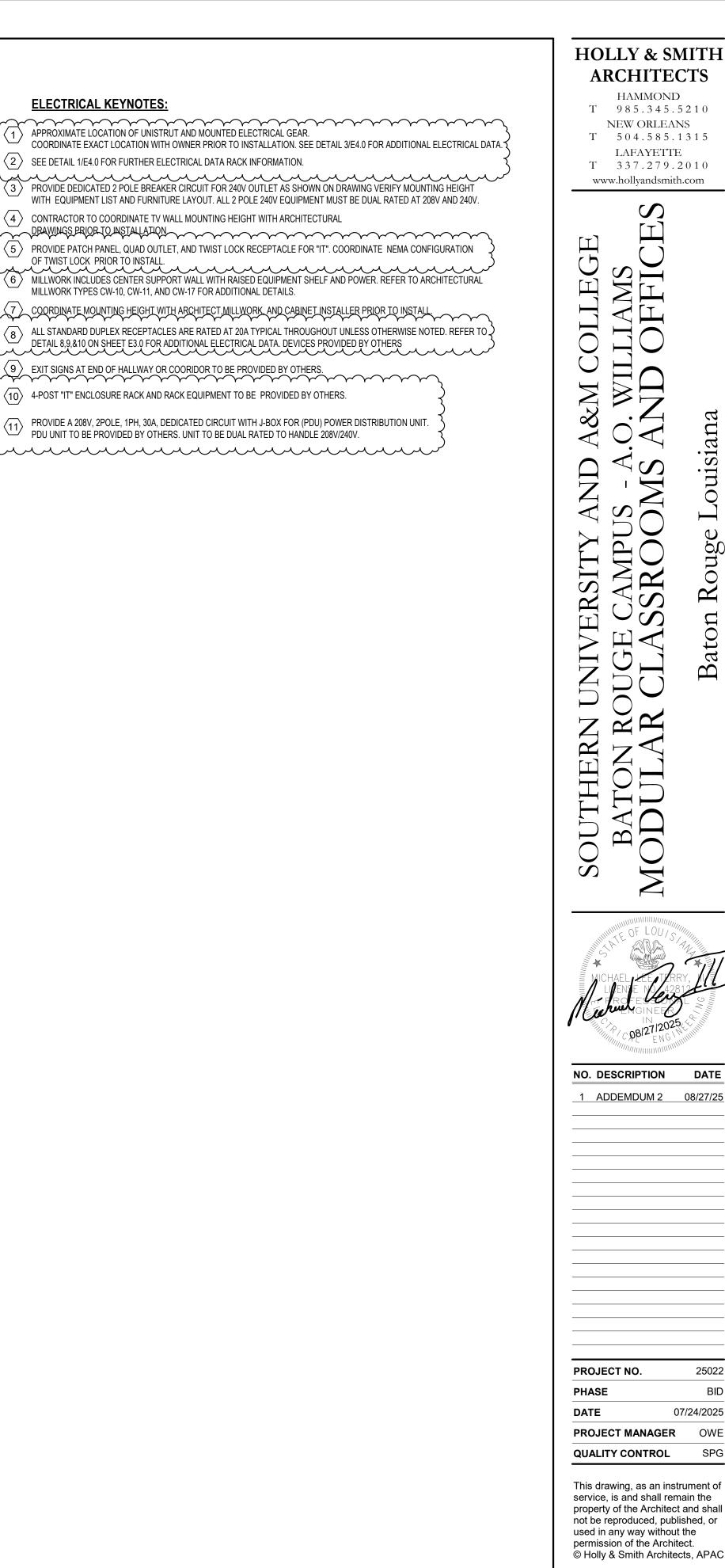
LOCATION—

PANEL "I4"

LOCATION-

LOCATION —

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ouisiana

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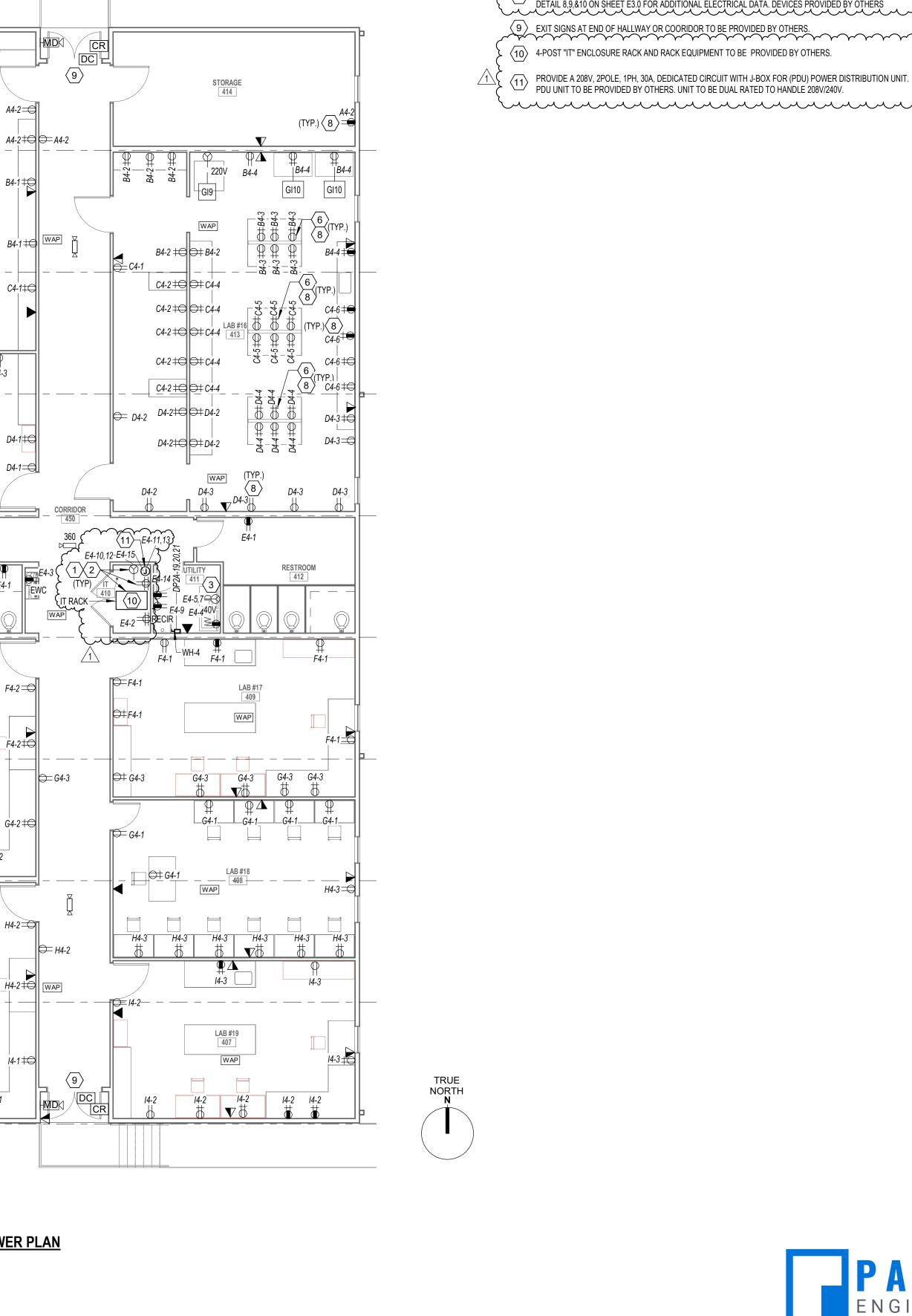
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07/24/2025 PROJECT MANAGER QUALITY CONTROL

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POWER PLAN - RESEARCH





ELECTRICAL KEYNOTES: APPROXIMATE LOCATION OF UNISTRUT AND MOUNTED ELECTRICAL GEAR.

2 > SEE DETAIL 1/E4.0 FOR FURTHER ELECTRICAL DATA RACK INFORMATION.

(3) PROVIDE DEDICATED 2 POLE BREAKER CIRCUIT FOR 240V OUTLET AS SHOWN ON DRAWING VERIFY MOUNTING HEIGHT

(5) PROVIDE PATCH PANEL, QUAD OUTLET, AND TWIST LOCK RECEPTACLE FOR "IT". COORDINATE NEMA CONFIGURATION

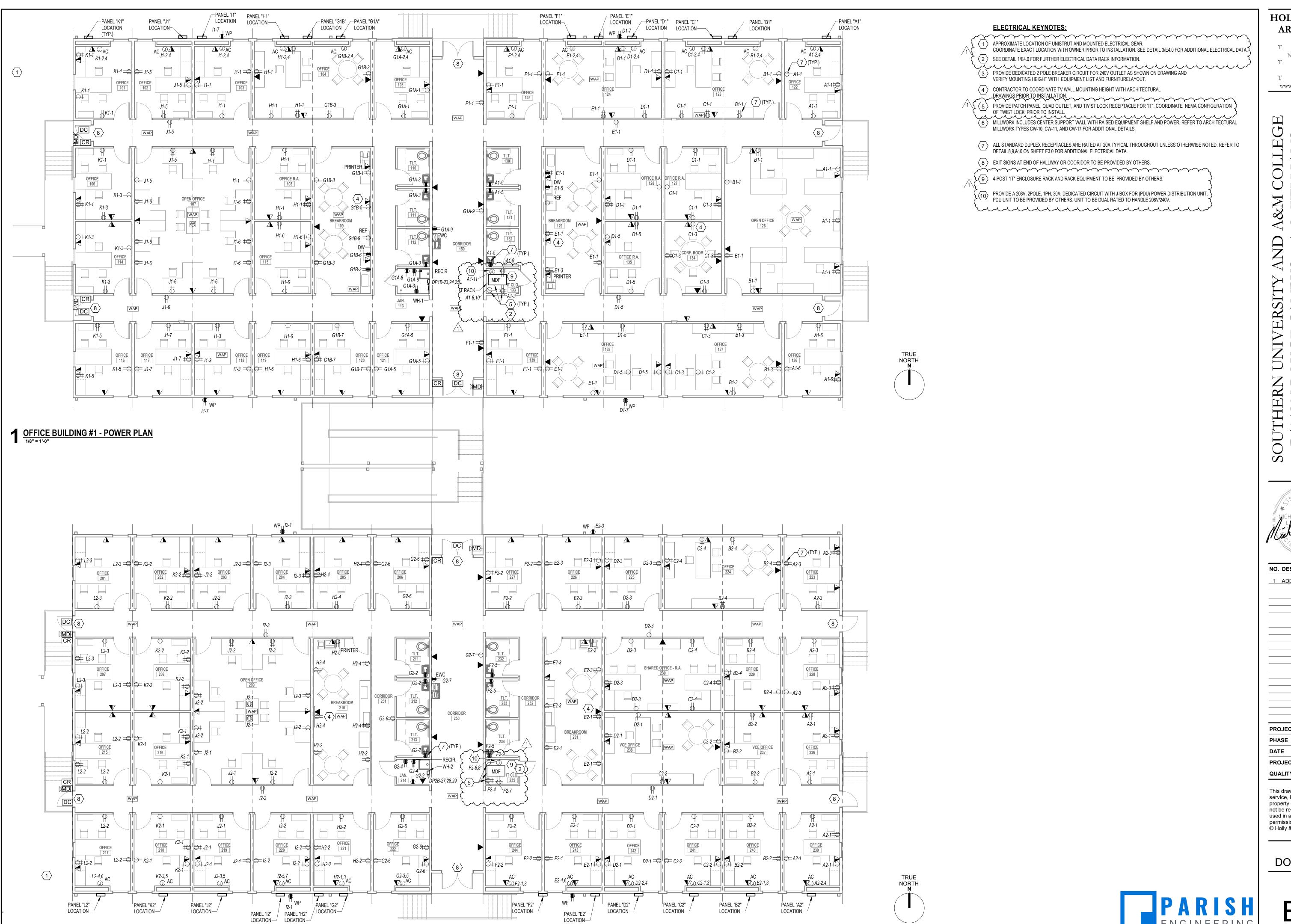
2 RESEARCH BUILDING #2 - POWER PLAN
1/8" = 1'-0"

G4-2 G4-2 ## ##

OFFICE BUILDING #2 - POWER PLAN

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BUILDINGS

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POWER PLAN - OFFICE

7 DETAIL - GROUNDING TO BLDG STEEL N.T.S.

GROUNDED ELECTRODE CONDUCTOR

METAL WATER PIPE

NOTE: CONTRACTOR SHALL SUBMIT DIGITAL 8 RESI PHOTOGRAPHS OF ALL GROUNDING TERMINATIONS.

STEEL REINFORCING

MATERIAL IN SLAB

MARK	NAME	VOLTAGE	STD. FUSE OR BKR TRIP SIZE
GI1	MICROWAVE	120V	20A
GI2	NIRS	120V	20A
GI3	DUCTLESS FUME HOOD	120V	20A
GI4	SOIL OVEN	120V	20A
GI5	CLIMATE CHAMBERS	240V	20A
GI6	GROWTH CHAMB.	115V	20A
GI7	DEIONIZED WATER	120V	20A
GI8	AUTOCLAVE	120V	20A
GI9	FLOOR-MOUNTED CENTRIFUGE	220V	20A
GI10	BIOSAFETY CAB	120V	20A

TURNISHED A	ND INSTALLLED BY OWNER UNLESS (THERWISE NOTED	
MARK	NAME	VOLTAGE	STD. FUSE OR BKR TRIP SIZE
GI1	MICROWAVE	120V	20A
GI2	NIRS	120V	20A
GI3	DUCTLESS FUME HOOD	120V	20A
GI4	SOIL OVEN	120V	20A
GI5	CLIMATE CHAMBERS	240V	20A
GI6	GROWTH CHAMB.	115V	20A
GI7	DEIONIZED WATER	120V	20A
GI8	AUTOCLAVE	120V	20A
GI9	FLOOR-MOUNTED CENTRIFUGE	220V	20A
GI10	RIOSAEETV CAR	120\/	20.4

MARK	NAME	VOLTAGE	STD. FUSE OR BKR TRIP SIZE
Aq1	BIOSAFETY CAB	120V	20A
Aq2	INCUBATOR	120V	20A
Aq3	REAGENT REFRIGERATOR	120V	20A
Aq4	REAGENT FREEZER	120V	20A
Aq5	DIRTY REFRIGERATOR	240V	20A
Aq6	GEL AREA	120V	20A
Aq7	LAMINAR FLOW CABINET	120V	20A
Aq8	THERMAL CYCLER	220V	20A
Aq9	FLOOR-MOUNTED -80C FREEZER	220V	20A
Aq10	BENCHTOP BEAD BATH	120V	20A
Aq11	BENCHTOP CENTRIFUGE	120V	20A
Aq12	NANODROP SPECTROPHOTOMETER	12V DC	20A
Aq13	MICROSCOPE	120V	20A
Aq14	BENCHTOP BALANCE	120V	20A
Aq15	BENCHTOP SPECTROPHOTOMETER	120V	20A
A 40		100) /	

120V

) INSTALLLED BY (FURNISHED ANI
NAMI	MARK
DECORTICATOR	Tx1
COMBING MACH	Tx2
ROTOR SPINNING	Tx3
TWISTING MACH	Tx4
INSPECTION MAG	Tx5
SANITARY NAPK	Tx6
WASHING SYSTE	Tx7
RING SPINNING	Tx8
OPENER	Tx9
ROVING MACHIN	Tx10
WINDING MACHI	Tx11
KNITTER	Tx12
DRAWING FRAM	Tx13
NONWOVEN NEE	Tx14
RAPIER WEAVIN	Tx15
SINGLE YARN WA	Tx16
CARDING MACHI	Tx17
AC POWER SOU	Tx18

MARK	NAME	VOLTAGE	STD. FUSE OF BKR TRIP SIZI
Tx1	DECORTICATOR (HEMP)	240V	20A
Tx2	COMBING MACHINE	240V	20A
Tx3	ROTOR SPINNING MACHINE	240V	20A
Tx4	TWISTING MACHINE	240V	20A
Tx5	INSPECTION MACHINE	240V	20A
Tx6	SANITARY NAPKIN MACHINE	240V	20A
Tx7	WASHING SYSTEM (WOOL/ ALPACA)	240V	20A
Tx8	RING SPINNING FRAME	240V	20A
Tx9	OPENER	240V	20A
Tx10	ROVING MACHINE	240V	20A
Tx11	WINDING MACHINE	240V	20A
Tx12	KNITTER	240V	20A
Tx13	DRAWING FRAME	240V	20A
Tx14	NONWOVEN NEEDLE MACHINE	240V	20A
Tx15	RAPIER WEAVING LOOM	240V	20A
Tx16	SINGLE YARN WARPING MACHINE	240V	20A
Tx17	CARDING MACHINE	240V	20A
Tx18	AC POWER SOURCE	240V	20A

	_	2	
RESEARCH	TEXTILE EQUIPMENT LEGEND (2	2)	
FURNISHED A	ND INSTALLLED BY OWNER UNLESS OTHER	WISE NOTED	
MARK	NAME	VOLTAGE	STD. FUSE OR BKR TRIP SIZE
			DITT ITTE
Tx1	DECORTICATOR (HEMP)	240V	20A
Tx2	COMBING MACHINE	240V	20A
Tx3	ROTOR SPINNING MACHINE	240V	20A
Tx4	TWISTING MACHINE	240V	20A
Tx5	INSPECTION MACHINE	240V	20A
Tx6	SANITARY NAPKIN MACHINE	240V	20A
Tx7	WASHING SYSTEM (WOOL/ ALPACA)	240V	20A
Tx8	RING SPINNING FRAME	240V	20A
Tx9	OPENER	240V	20A
Tx10	ROVING MACHINE	240V	20A
Tx11	WINDING MACHINE	240V	20A
Tx12	KNITTER	240V	20A

40 50 20 25 20

AVERAGE (FC)

OFFICES 50 OPEN OFFICES 50 BREAK ROOM MODULAR TECH LABS LAUNDRY CORRIDORS TEXTILE 50 RESTROOM 25 STORAGE 25

LIGTHTING (AREAS)

2 AVERAGE FOOTCANDLE CHART
N.T.S.

MODULAR BUILDING PANELS

BKR TRIP SIZE

125

125

175

175

300

125

125

150

125

STD. FUSE OR DISTRIBUTION PHASE

PANEL

DP1B

208Y/120V,3PH,4-WIRE,800A

"DP2B"

3-WIRE

MOD

BUILDING

PANELS.

REFERENCE

PLANS FOR

LOCATIONS

QUANTITY.

125 1

= =

1PH

(TYP.) U.O.N.

FINISHED GRADE

LOAD CENTER STD. FUSE OR

C1

BKR TRIP SIZE

125

125

125

125

125

125

125

125

125

125

125

AND

PRIMARY VOLTAGE CONDUIT, PER SUBR

BY OTHERS. (TYP.)

UTILITY STANDARDS. SIZED AND PROVIDED

 \sim

120/208V, 3P, 4W

UTILITY POLE XFMR

PROVIDED BY

OTHERS

METERING TO BE PROVIDED

208Y120V, 1PH,

3-WIRE, 125A

BUILDING

PANELS.

PLANS FOR

QUANTITY.

125 1

(TYP.)

LOCATIONS

REFERENCE

BY SOUTHERN UNIVERSITY.

(TYP.) -

208Y/120V,3PH,4-WIRE,600A

PANEL

208Y/120V,3PH,4-WIRE,1200A

PANEL

"DP1A"

3-WIRE, 125A

BUILDING

PANELS.

REFERENCE

PLANS FOR

LOCATIONS

QUANTITY.

↑ CLASSROOM BUILDINGS ELECTRICAL RISER DIAGRAM

4-WIRE FEEDER SCHEDULE

4#10 THWN, 1#10 GND

4#6 THWN, 1#8 GND

4#3 THWN, 1#8 GND

4#1 THWN, 1#6 GND

4#1/0 THWN, 1#6 GND

4#3/0 THWN, 1#4 GND

4#3/0 THWN, 1#3 GND

4#350 THWN MCM, 1#1 GND

4#300 THWN MCM, 1#1/0 GND

4#350 THWN MCM, 1#2/0 GND

ALL FEEDER SIZES LISTED MAY NOT BE SHOWN IN POWER RISER

REFER TO THE LATEST EDITION OF THE NEC FOR CONDUIT TYPES

OTHER THAN THOSE LISTED ABOVE ARE USED.

"VD" INDICATES WIRE UPSIZED FOR VOLTAGE DROP.

"NG" INDICATES NO GROUND CONDUCTOR REQUIRED.

REQUIRED PER THEIR TABLES. ALL CONDUCTORS TO BE COPPER.

ELECTRICAL CONTRACTOR TO VERIFY SIZE REQUIRED IF WIRE TYPES

BUILDING STEEL

—BONDING

WIRE QUANTITY AND SIZE

CONDUIT SIZE

(MINIMUM)

3/4"

1-1/4"

1-1/4"

1-1/2"

2"

2"

2-1/2"

3"

3"

3"

 $\langle 125 \rangle \langle 1 \rangle$

AND

FINISHED GRADE

SEE PANEL SCHEDULES FOR

CONDUIT AND CONDUCTOR

STD. FUSE OR # OF

BKR TRIP SIZE | SETS

30

100

125

150

200

400

800

3 4-WIRE FEEDER SCHEDULE
N.T.S.

BONDING -JUMPER

—GROUND ROD

✓ 3/4"X10' COPPER

INFORMATION. (TYPICAL)

120/208V, 3P, 4W

UTILITY POLE XFMR

PROVIDED BY

OTHERS

 \sim

208Y/120V,3PH,4-WIRE,800A

3-WIRE, 125A

PANELS.

REFERENCE

PLANS FOR

LOCATIONS

QUANTITY.

(TYP.)

125 1

MODULAR BUILDING PANELS SHALL BE BURIED UNLESS OTHERWISE NOTED.

1PH

1PH

1PH

1PH

1PH

1PH

1PH

1PH

1PH

DISTRIBUTION | LOAD CENTER | PHASE

A3

C3

D3

E3

F3

G3

PANEL

DP1A

CONTRACTOR NOTE: THE FEEDERS BETWEEN THE VARIOUS DISTRIBUTION PANELS AND THE

	3-\	WIRE FEEDER SCHEDULE	
STD. FUSE OR BKR TRIP SIZE	# OF SETS	WIRE QUANTITY AND SIZE	CONDUIT SI. (MINIMUM
30>	1	3#10 THWN, 1#10 GND	3/4"
60>	1	3#6 THWN, 1#8 GND	1-1/4"
<100>	1	3#3 THWN, 1#8 GND	1-1/4"
<u> </u>	1	3#1 THWN, 1#6 GND	1-1/2"
<u> </u>	1	3#1/0 THWN, 1#6 GND	2"
200>	1	3#3/0 THWN, 1#4 GND	2"
400>	2	3#3/0 THWN, 1#3 GND	2-1/2"
600>	2	3#350 THWN MCM, 1#1 GND	3"
	 		+

3-WIRE FEEDER SCHEDULE					
STD. FUSE OR BKR TRIP SIZE	# OF SETS	WIRE QUANTITY AND SIZE	CONDUIT SIZE (MINIMUM)		
30 >	1	3#10 THWN, 1#10 GND	3/4"		
60>	1	3#6 THWN, 1#8 GND	1-1/4"		
<100>	1	3#3 THWN, 1#8 GND	1-1/4"		
<u> </u>	1	3#1 THWN, 1#6 GND	1-1/2"		
<u> </u>	1	3#1/0 THWN, 1#6 GND	2"		
<200>	1	3#3/0 THWN, 1#4 GND	2"		
400	2	3#3/0 THWN, 1#3 GND	2-1/2"		
<u> </u>	2	3#350 THWN MCM, 1#1 GND	3"		
(800)	3	3#300 THWN MCM, 1#1/0 GND	3"		

<100>	1	3#3 THWN, 1#8 GND	1-1/4"			
<u> </u>	1	3#1 THWN, 1#6 GND	1-1/2"			
150	1	3#1/0 THWN, 1#6 GND	2"			
<200>	1	3#3/0 THWN, 1#4 GND	2"			
400>	2	3#3/0 THWN, 1#3 GND	2-1/2"			
€600 >	2	3#350 THWN MCM, 1#1 GND	3"			
₹800	3	3#300 THWN MCM, 1#1/0 GND	3"			
NOTES: 1. ALL FEEDER SIZES LISTED MAY NOT BE SHOWN IN POWER RISER DIAGRAM						

000		J 3	3#300 111WIN MOW, 1#1/0 GIND	J	
	NOTES:				
	1.	ALL FE	EDER SIZ	ES LISTED MAY NOT BE SHOWN IN POW	ER RISER
		DIAGRA	AM.		
	2.	ELECTI	RICAL COI	NTRACTOR TO VERIFY SIZE REQUIRED I	F WIRE TYPES
		OTHER	THAN TH	OSE LISTED ABOVE ARE USED.	
	3.	REFER	TO THE L	ATEST EDITION OF THE NEC FOR COND	UIT TYPES
		DEOLII	DED DED .	THEID TADI EC	

"VD" INDICATES WIRE UPSIZED FOR VOLTAGE DROP.

"NG" INDICATES NO GROUND CONDUCTOR REQUIRED.

RESEARCH EQUIPMENT LEGEND (2)

4 3-WIRE FEEDER SCHEDULE
N.T.S.

NOTES:		
1.	ALL FEEDER SIZES LISTED MAY NOT BE SHOWN IN POWER RISER	
	DIAGRAM.	
2.	ELECTRICAL CONTRACTOR TO VERIFY SIZE REQUIRED IF WIRE TYPES	
	OTHER THAN THOSE LISTED ABOVE ARE USED.	
3.	REFER TO THE LATEST EDITION OF THE NEC FOR CONDUIT TYPES	
	REQUIRED PER THEIR TABLES.	
4.	ALL CONDUCTORS TO BE COPPER.	
		ALL FEEDER SIZES LISTED MAY NOT BE SHOWN IN POWER RISER DIAGRAM. ELECTRICAL CONTRACTOR TO VERIFY SIZE REQUIRED IF WIRE TYPES OTHER THAN THOSE LISTED ABOVE ARE USED. REFER TO THE LATEST EDITION OF THE NEC FOR CONDUIT TYPES REQUIRED PER THEIR TABLES.

>	3	3#300 THWN MCM, 1#1/0 GND	J"				
ALL FEEDER SIZES LISTED MAY NOT BE SHOWN IN POWER RISER							
DIAGRA	AM.		-				
ELECTI	RICAL CO	NTRACTOR TO VERIFY SIZE REQUIRED I	F WIRE TYPES				
OTHER THAN THOSE LISTED ABOVE ARE USED.							
REFER	TO THE L	ATEST EDITION OF THE NEC FOR COND	UIT TYPES				
REQUI	RED PER '	ΓHEIR TABLES.					
111 00	MIDLIOTO						

	J3	1PH	125	
	K3	1PH	125	
	•			
5 LOAD	<u>CENTERS</u>	<u>SCHEDU</u>	LE DP1A &	<u>DP1B</u>

N.T.S.

RESEARCH AQUA EQUIPMENT LEGEND $\langle 2 \rangle$

Aq16 ICE MACHINE

9 RESEARCH AQUA EQUIPMENT LEGEND N.T.S.

MODULAR BUILDINGS PANELS								
DISTRIBUTION PANEL	LOAD CENTER	PHASE	STD. FUSE OR BKR TRIP SIZE	DISTRIBUTION PANEL	PHASE	LOAD CENTER	STD. FUSE OR BKR TRIP SIZE	
DP2A	A4	1PH	125	DP2B	1PH	A2	125	
	B4	1PH	125		1PH	B2	125	
	C4	1PH	125		1PH	C2	125	
	D4	1PH	125		1PH	D2	125	
	E4	1PH	125		1PH	E2	125	
	F4	1PH	125		1PH	F2	125	
	G4	1PH	125		1PH	G2	125	
	H4	1PH	125		1PH	H2	125	
	14	1PH	125		1PH	12	250	
					1PH	J2	125	
					1PH	K2	125	
					1PH	L2	125	

6 LOAD CENTERS SCHEDULE DP2A & DP2B N.T.S.

SOUTHERN X

N UNIVERSITY SOUGE CAMPUR CLASSROC

HOLLY & SMITH

ARCHITECTS

HAMMOND

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NEW ORLEANS

T 504.585.1315

LAFAYETTE T 337.279.2010

www.hollyandsmith.com

)LLEGE

ELECTRICAL KEYNOTES:

1 REFER TO MODULAR BUILDING PANEL CHART FOR

VERIFY ALL RESEARCH EQUIPMENT VOLTAGES AND CIRCUIT BREAKER AMPACITY OF BREAKER WITH

EQUIPMENT PRIOR TO BID AND PURPOSE.

ROUTE PRIMARY FEED TO SERVICE RATED DISCONNECT

SWITCH TO WIREWAY TO DISTRIBUTION PANELS

SUPPORTED ON UNISTRUT. REFER TO DETAIL 3/E4.0 FOR <

BREAKER SIZES. SEE DETAIL 5&6 / E3.0

FURTHER ELECTRICAL DATA.

NO. DESCRIPTION DAT					
1	ADDEMDUM 2	08/27/25			

PROJECT NO.

07/24/2025 PROJECT MANAGER OWE **QUALITY CONTROL** SPG

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BID **DOCUMENTS**

E3.0

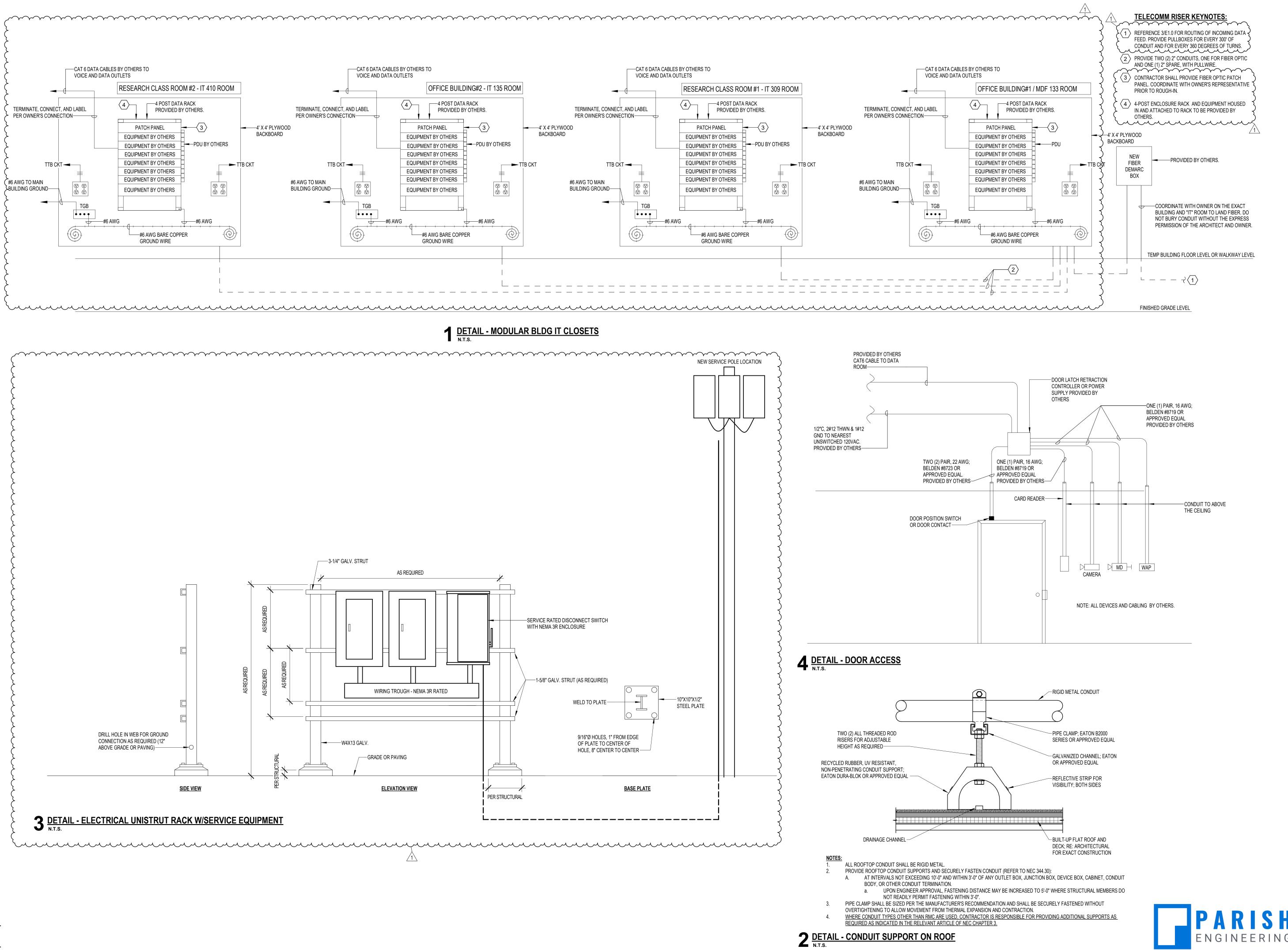
10 RESEARCH TEXTILE EQUIPMENT LEGEND N.T.S.

7600 Innovation Park Drive 225.332.0222 Baton Rouge, LA 70820 parisheng.com| #28-082

RISER DIAGRAM & SCHEDULES

0" ½" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.



HOLLY & SMITH ARCHITECTS

HAMMOND

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JE VERSIT

NO. DESCRIPTION DATE

THER

S

1 ADDEMDUM 2 08/27/25

PROJECT NO.

07/24/2025 PROJECT MANAGER QUALITY CONTROL

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BID **DOCUMENTS**

E4.0

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225.332.0222

ELECTRICAL DETAILS

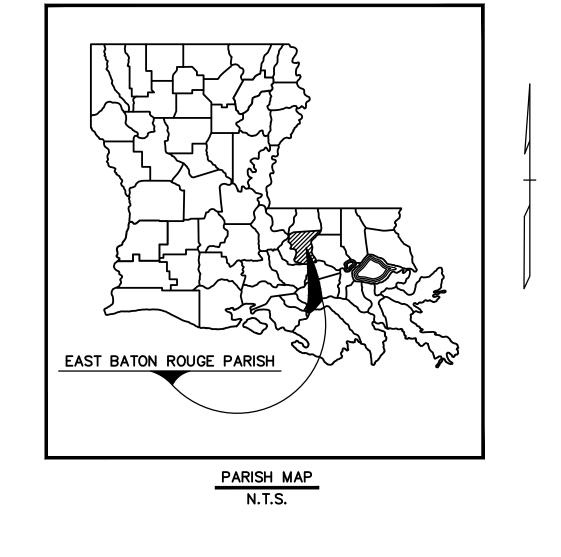
SITE UTILITIES AND PAVING, TEMPORARY BUILDINGS

SOUTHERN UNIVERSITY BATON ROUGE, LOUISIANA

STATE ID: N/A - SITE CODE: 2-17-038

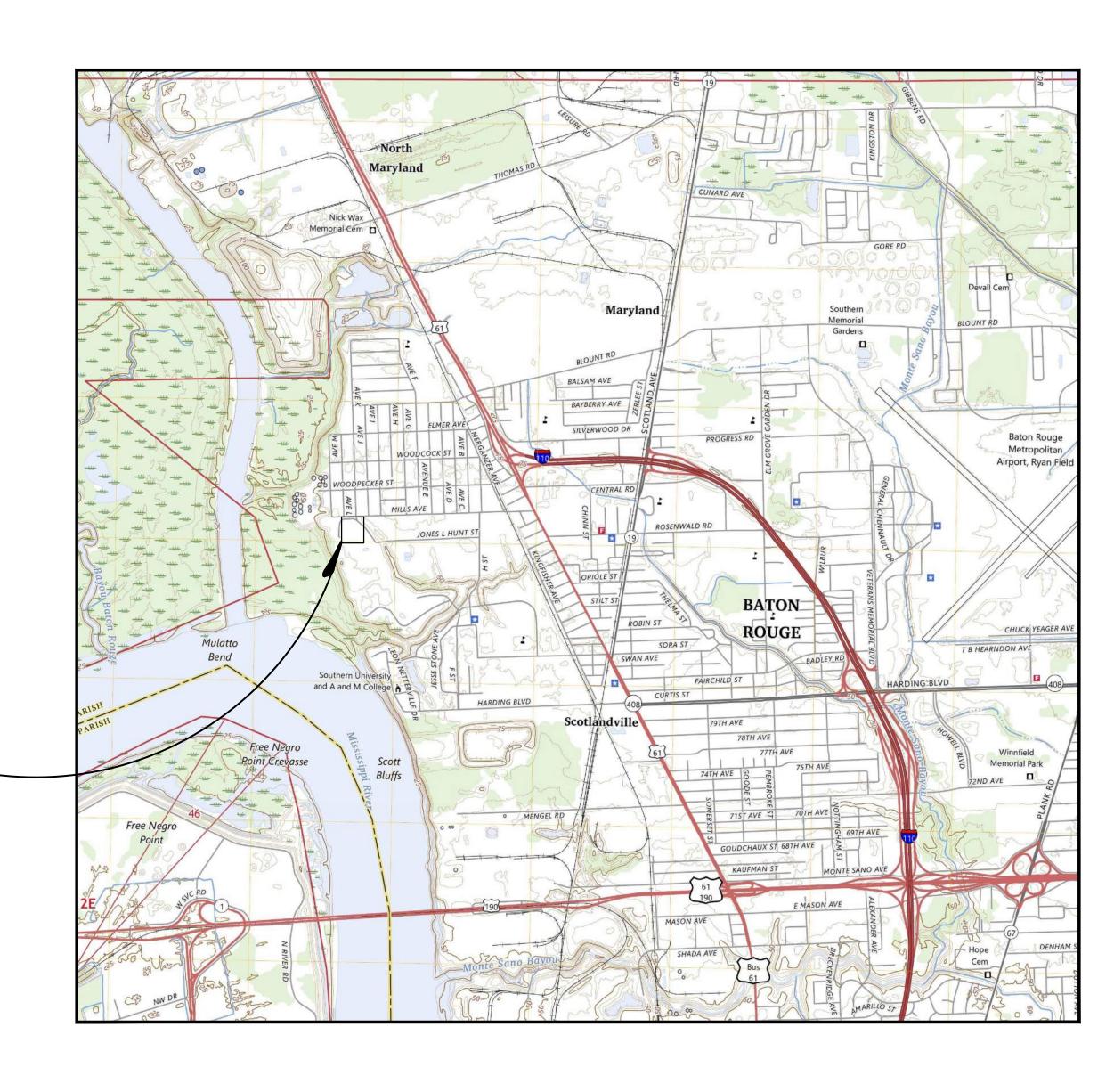
STATE PROJECT NO: 19-616-14-01, F.19002641

JUNE 30, 2025



SHEET NO.	DESCRIPTION
C1.01	TITLE SHEET
C2.01	DEMO AND EROSION CONTROL PLAN
C2.02	OVERALL SITE PLAN
C2.03	GEOMETRIC PLAN
C2.04	PAVING & JOINT PLAN
C2.05	GRADING & DRAINAGE PLAN
C2.06	UTILITY PLAN
C2.07	SITE PLAN - ALTERNATIVE I
C2.08	GEOMETRIC PLAN - ALTERNATIVE I
C2.09	PAVING & JOINT PLAN - ALTERNATIVE I
C2.10	GRADING & DRAINAGE PLAN - ALTERNATIVE I
C2.11	UTILITY PLAN - ALTERNATIVE I
C3.01	EROSION CONTROL DETAILS
C3.02	STORMDRAIN DETAILS
C3.03	STORMDRAIN GRATE DETAILS
C3.04	SANITARY SEWER DETAILS
C3.05	JOINT DETAILS
C3.06	MISCELLANEOUS DETAILS
C3.07	PAVEMENT DETAILS
C3.08	BEDDING AND BACKFILL DETAILS
C3.09	YARD DRAIN DETAILS
C3.10	YARD DRAIN METAL COVER DETAILS
P001	PLUMBING COVER SHEET
PIOI	PLUMBING PLAN - SITE
PIII	PLUMBING PLAN - SS - OFFICE BLDG # 1 & 2
PII2	PLUMBING PLAN - SS - RESEARCH BLDG # 1 & 2
PI2I	PLUMBING PLAN - DW - OFFICE BLDG # 1 & 2
P122	PLUMBING PLAN - DW - RESEARCH BLDG # 1 & 2
P201	PLUMBING DETAILS
P301	PLUMBING SCHEDULES

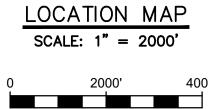
SITE LOCATION



State of Louisiana Jeff Landry, Governor

Division of Administration Taylor F. Barras, Commissioner of Administration

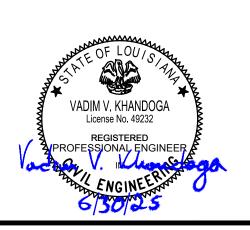
Office of Facility, Planning and Control Roger E. Husser Jr, Director



DATUM USED: VERTICAL: NAVD88 (US SURVEY FEET) ELEVATIONS DERIVED UTILIZING LSU C4G REAL TIME NETWORK, GEOID18
HORIZONTAL: NSRS 2011 (EPOCH 2010), LOUISIANA STATE PLANE COORDINATES, SOUTH ZONE (1702), US SURVEY FEET

BEARINGS ARE: LOUISIANA STATE PLANE COORDINATE SYSTEM

TYPE OF CONSTRUCTION: CLEARING/GRUBBING, SITE FILL, GRADING, CONCRETE SIDEWALKS, CONCRETE DRIVES, ASPHALT PARKING, AGGREGATE PARKING, DUMPSTER PAD, SIGNAGE, STRIPING



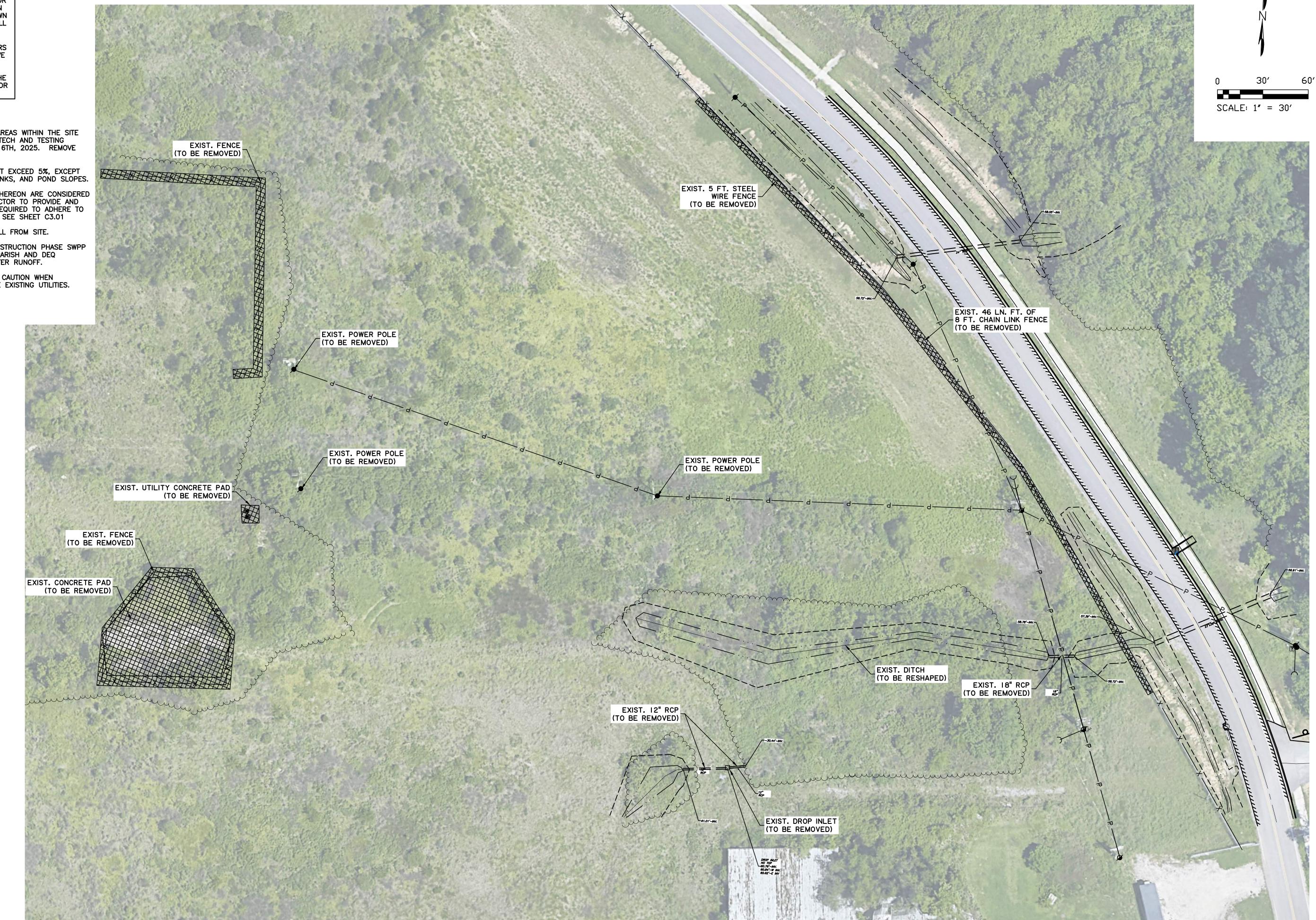


LACall 811 www.laonecall.com

BY LOUISIANA STATE LAW THE CONTRACTOR IS RESPONSIBLE FOR FINAL VERIFICATION OF THE LOCATION OF THE UTILITIES SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CALL LOUISIANA ONE CALL (811 OR 800-272-3020) AND CITY/PARISH DEPARTMENT OF PUBLIC WORKS 48 HOURS PRIOR TO WORK COMMENCEMENT TO HAVE UTILITIES LOCATED PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE UTILITY COMPANIES AND MUNICIPALITIES FOR ALL AREAS OF CONSTRUCTION.

GENERAL NOTES:

- FOR CLEARING AND GRUBBING ALL AREAS WITHIN THE SITE PROPERTY LINES, SEE PREMIER GEOTECH AND TESTING GEOTECHNICAL REPORT DATED JUNE 6TH, 2025. REMOVE ALL TREES.
- 2. FINISHED GRADES/SLOPES SHALL NOT EXCEED 5%, EXCEPT FOR BERMS, FILL SLOPES, DITCH BANKS, AND POND SLOPES.
- 3. EROSION CONTROL DEVICES SHOWN HEREON ARE CONSIDERED TO BE MINIMUM MEASURES. CONTRACTOR TO PROVIDE AND INSTALL ADDITIONAL MEASURES AS REQUIRED TO ADHERE TO THE SWPPP AND GENERAL PERMIT. SEE SHEET C3.01
- 4. CONTRACTOR TO REMOVE EXCESS FILL FROM SITE.
- 5. CONTRACTOR RESPONSIBLE FOR CONSTRUCTION PHASE SWPP PLAN AND COMPLIANCE WITH CITY, PARISH AND DEQ REGULATIONS REGARDING STORM WATER RUNOFF.
- 6. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN REGRADING DITCHES TO NOT DAMAGE EXISTING UTILITIES.





LEGEND

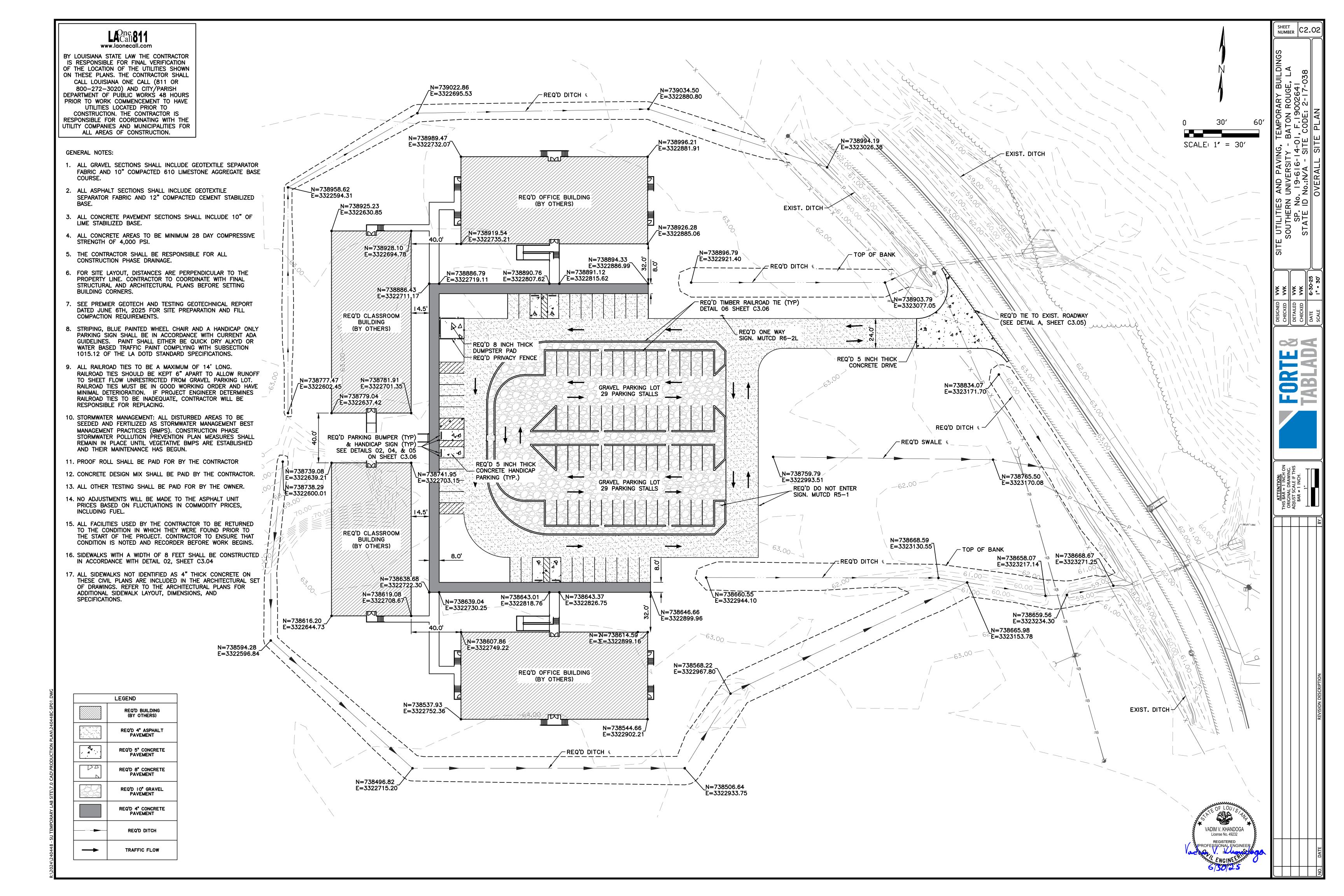


PROP. REMOVAL



SHEET C2.01

'LAB SITE\7.0 CAD\PRODUCTION PLAN\240448C-EC0



WWW.laonecall.com BY LOUISIANA STATE LAW THE CONTRACTOR IS RESPONSIBLE FOR FINAL VERIFICATION OF THE LOCATION OF THE UTILITIES SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CALL LOUISIANA ONE CALL (811 OR 800-272-3020) AND CITY/PARISH DEPARTMENT OF PUBLIC WORKS 48 HOURS PRIOR TO WORK COMMENCEMENT TO HAVE UTILITIES LOCATED PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE UTILITY COMPANIES AND MUNICIPALITIES FOR ALL AREAS OF CONSTRUCTION.

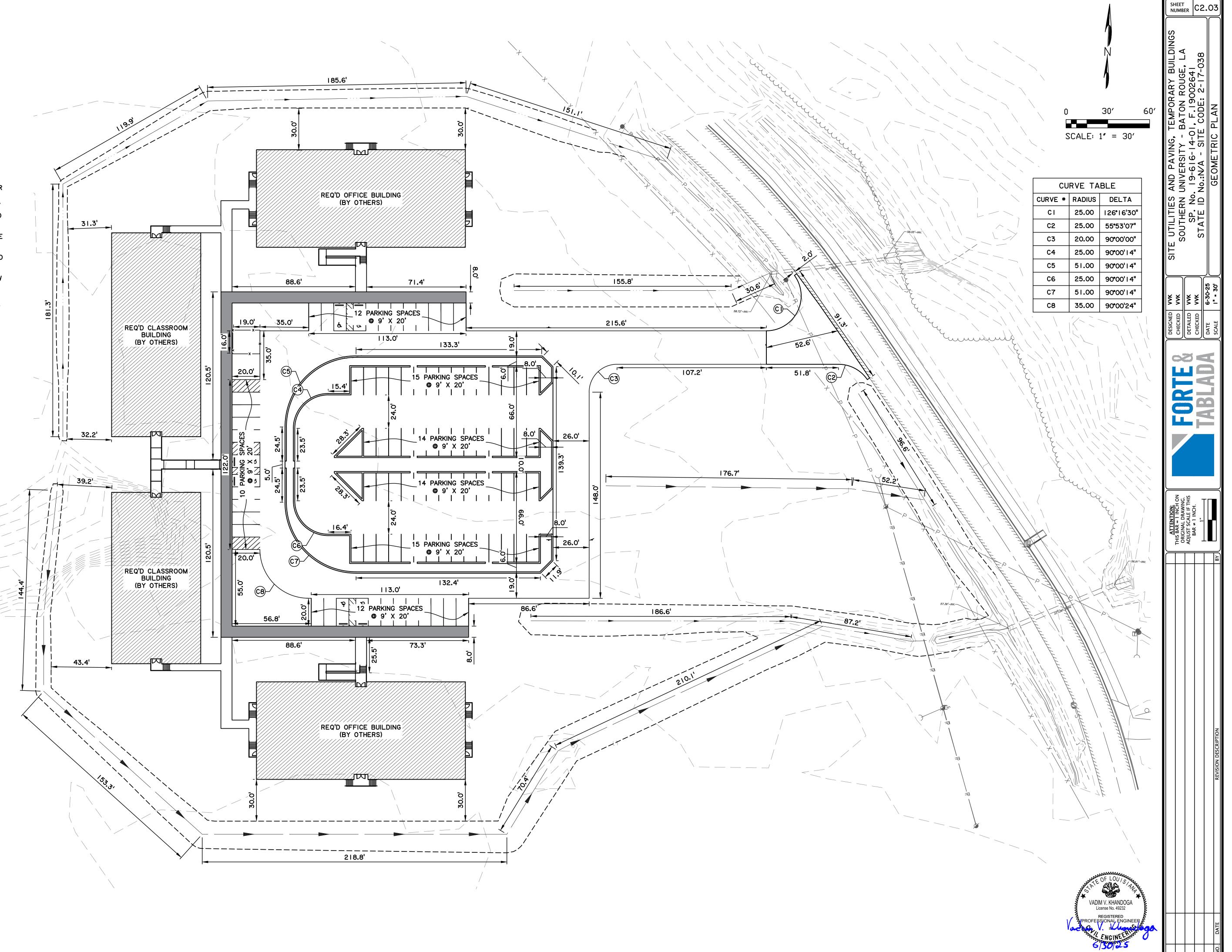
- 1. HANDICAP PARKING AREA TO INCLUDE BLUE 4"
 PARKING STRIPING, BLUE PAINTED WHEEL CHAIR AND
 WHEEL STOP, AND A HANDICAP ONLY PARKING SIGN.
 ALL IN ACCORDANCE WITH CURRENT ADA GUIDELINES.
 PAINT SHALL EITHER BE QUICK DRY ALKYD OR WATER
 BASED TRAFFIC PAINT COMPLYING WITH SUBSECTION
 1015.12 OF THE LA DOTD STANDARD SPECIFICATIONS.
- 2. ALL MEASUREMENTS AND DIMENSIONS SHOWN ARE TO OUTSIDE OF RAILROAD TIE.
- 3. ALL CONCRETE TO BE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
- 4. SURFACE CRACKS SHALL BE ROUTED OUT AND FILLED WITH SEALANT.
- 5. CONTRACTOR TO PROOF ROLL SUBGRADE WHERE NEW PAVEMENT IS CALLED FOR PRIOR TO PLACING FILL. AREAS OF FAILURE TO BE REMOVED AND REPLACED.
- 6. STANDARD ACCESSIBLE PARKING SPACES SHALL BE 9 FEET WIDE BY 20 FEET LONG.
- 7. STRIPED ACCESS AISLES BETWEEN ACCESSIBLE AISLE SHALL BE A MINIMUM OF 5 FEET WIDE BY 20 FEET LONG.
- 8. ALL ACCESSIBLE SPACES AND AISLES SHALL BE PROPERLY STRIPED AND SIGNED IN ACCORDANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN AND APPLICABLE LOCAL REGULATIONS.

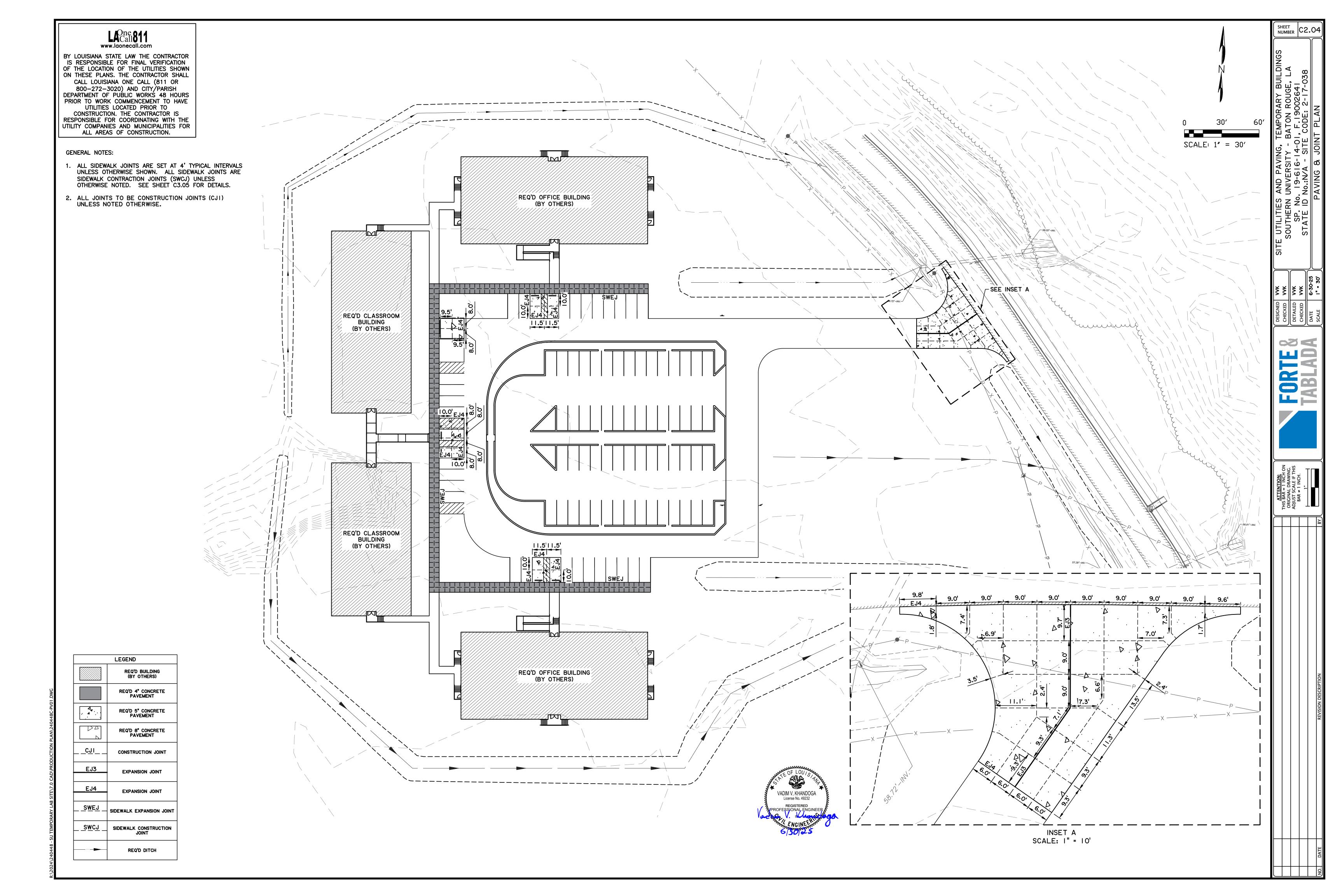
LEGEND

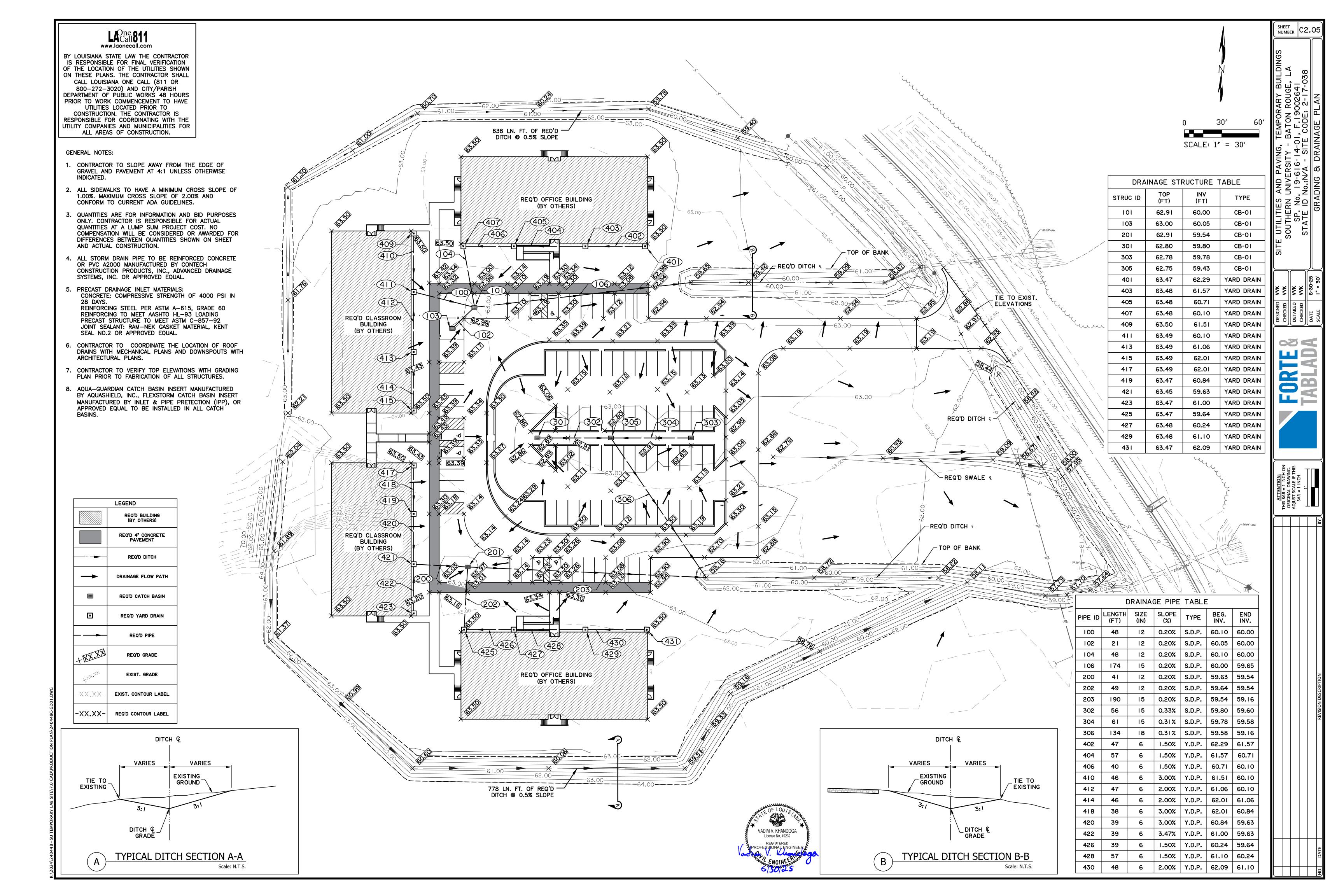
REQ'D BUILDING (BY OTHERS)

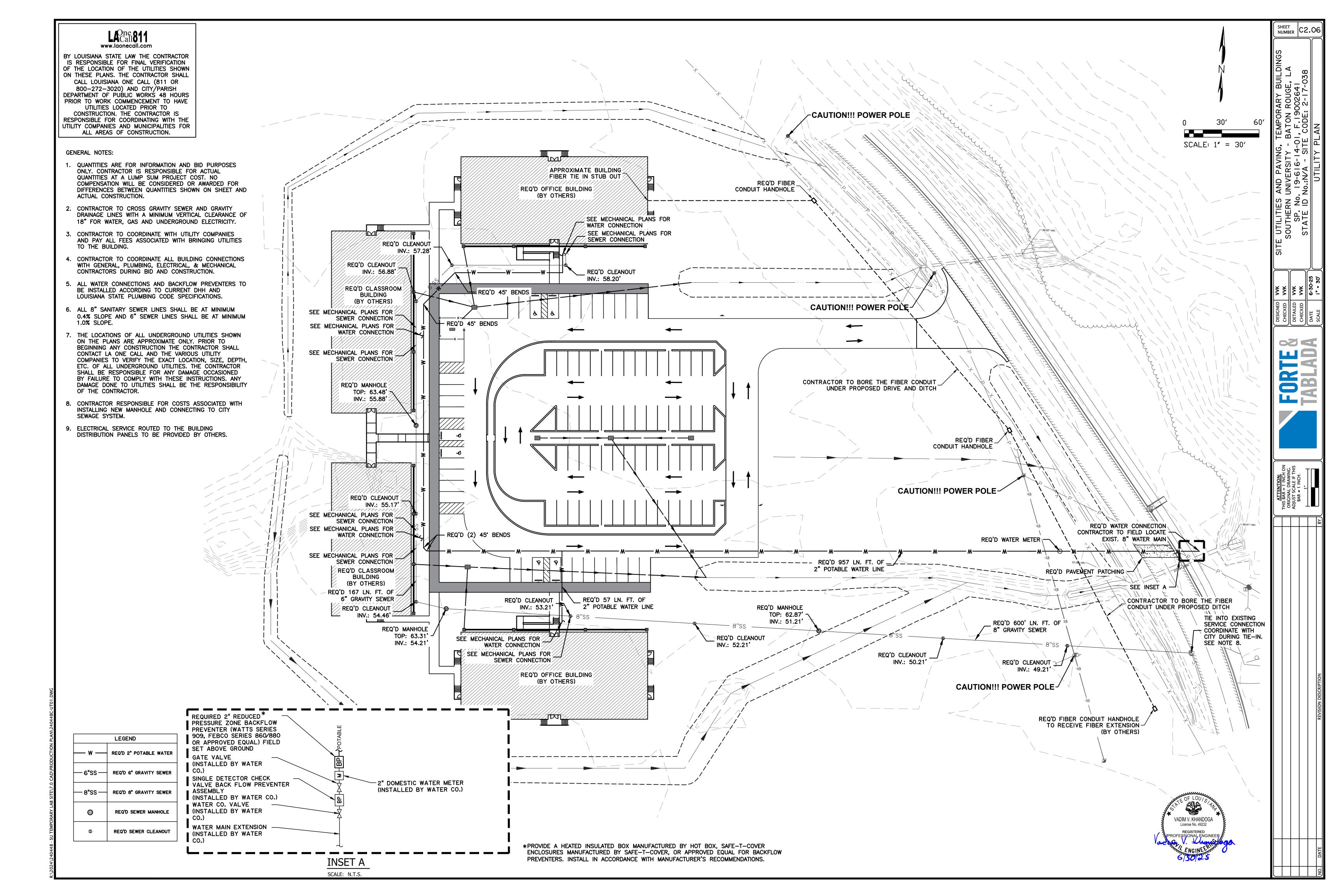
REQ'D 4" CONCRETE PAVEMENT

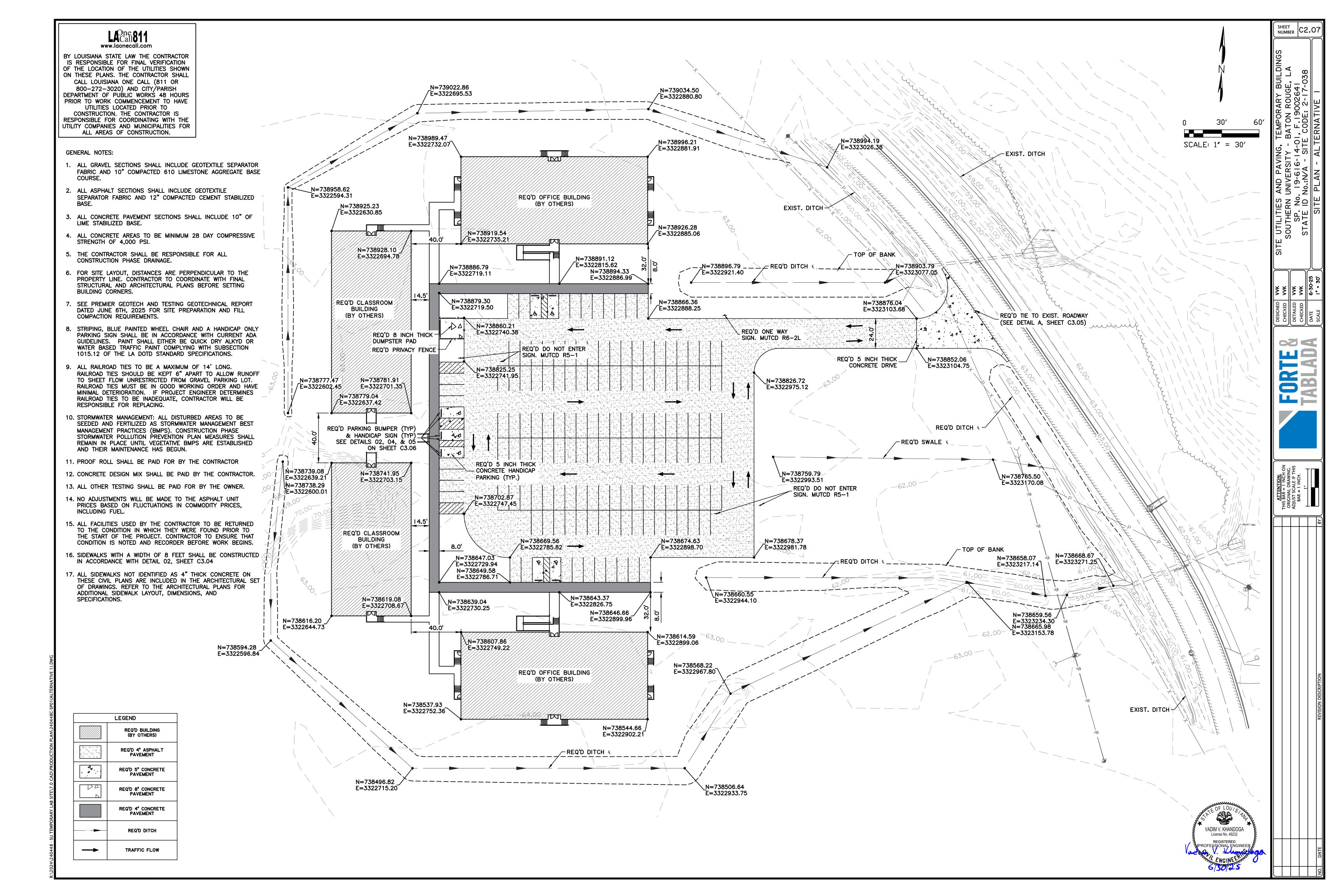
REQ'D DITCH











LAOne 811 www.laonecall.com BY LOUISIANA STATE LAW THE CONTRACTOR IS RESPONSIBLE FOR FINAL VERIFICATION OF THE LOCATION OF THE UTILITIES SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CALL LOUISIANA ONE CALL (811 OR 800-272-3020) AND CITY/PARISH DEPARTMENT OF PUBLIC WORKS 48 HOURS 185.6 PRIOR TO WORK COMMENCEMENT TO HAVE _____ UTILITIES LOCATED PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE UTILITY COMPANIES AND MUNICIPALITIES FOR ALL AREAS OF CONSTRUCTION. **GENERAL NOTES:** 1. HANDICAP PARKING AREA TO INCLUDE BLUE 4" PARKING STRIPING, BLUE PAINTED WHEEL CHAIR AND WHEEL STOP, AND A HANDICAP ONLY PARKING SIGN. ALL IN ACCORDANCE WITH CURRENT ADA GUIDELINES. PAINT SHALL EITHER BE QUICK DRY ALKYD OR WATER BASED TRAFFIC PAINT COMPLYING WITH SUBSECTION REQ'D OFFICE BUILDING 1015.12 OF THE LA DOTD STANDARD SPECIFICATIONS. (BY OTHERS) 2. ALL MEASUREMENTS AND DIMENSIONS SHOWN ARE TO OUTSIDE OF RAILROAD TIE. 31.3' 3. ALL CONCRETE TO BE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI. 4. SURFACE CRACKS SHALL BE ROUTED OUT AND FILLED WITH SEALANT. 5. CONTRACTOR TO PROOF ROLL SUBGRADE WHERE NEW 71.4' PAVEMENT IS CALLED FOR PRIOR TO PLACING FILL. AREAS OF FAILURE TO BE REMOVED AND REPLACED. 12 PARKING SPACES_ 6. STANDARD ACCESSIBLE PARKING SPACES SHALL BE 9 FEET WIDE BY 20 FEET LONG. **©** 9' X 20' 35.0 215.6 7. STRIPED ACCESS AISLES BETWEEN ACCESSIBLE AISLE REQ'D CLASSROOM SHALL BE A MINIMUM OF 5 FEET WIDE BY 20 FEET BUILDING 113.0 fluxuur (BY OTHERS) 8. ALL ACCESSIBLE SPACES AND AISLES SHALL BE PROPERLY STRIPED AND SIGNED IN ACCORDANCE 19 PARKING SPACES WITH ADA STANDARDS FOR ACCESSIBLE DESIGN AND 51.8' \ 110.6 **©** 9' X 20' APPLICABLE LOCAL REGULATIONS. 20 PARKING SPACES **©** 9' X 20' 32.2' 20 PARKING SPACES **©** 9' X 20' 176.7 20 PARKING SPACES 20 PARKING SPACES 26.0' 16 PARKING SPACES **©** 9' X 20' REQ'D CLASSROOM BUILDING 35.0¹ (BY OTHERS) 12 PARKING SPACES **©** 9' X 20' 73.3' 43.4' REQ'D OFFICE BUILDING (BY OTHERS) LEGEND 218.8 REQ'D BUILDING (BY OTHERS) REQ'D 4" CONCRETE PAVEMENT REQ'D DITCH

TRAFFIC FLOW

SHEET C2.08

E UTILITIES SOUTHERN SP. No. STATE ID

SCALE: 1" = 30'

CURVE TABLE

CI | 25.00 | 126°16'30"

C2 | 25.00 | 55°53'07"

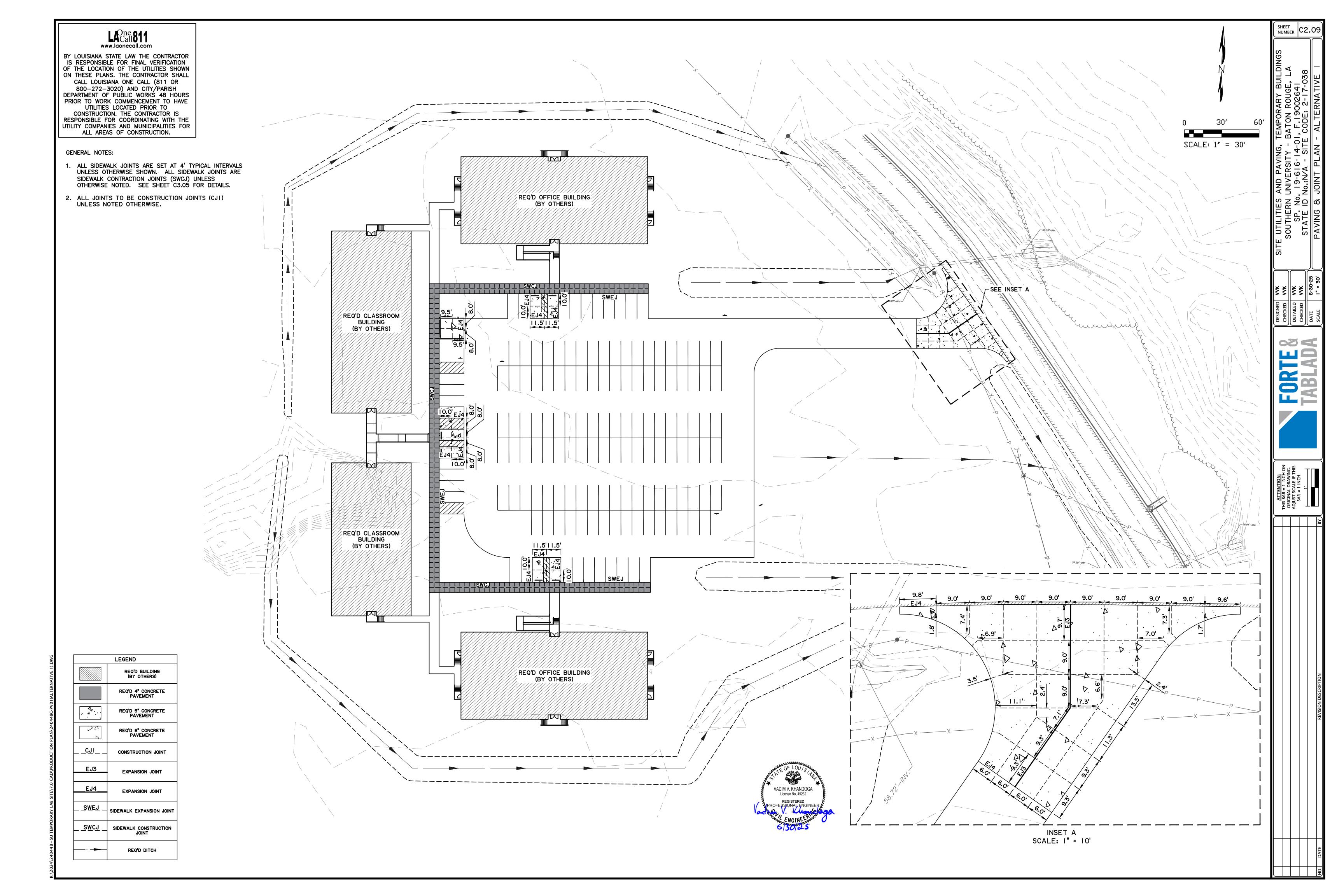
C4 | 35.00 | 90°00'00"

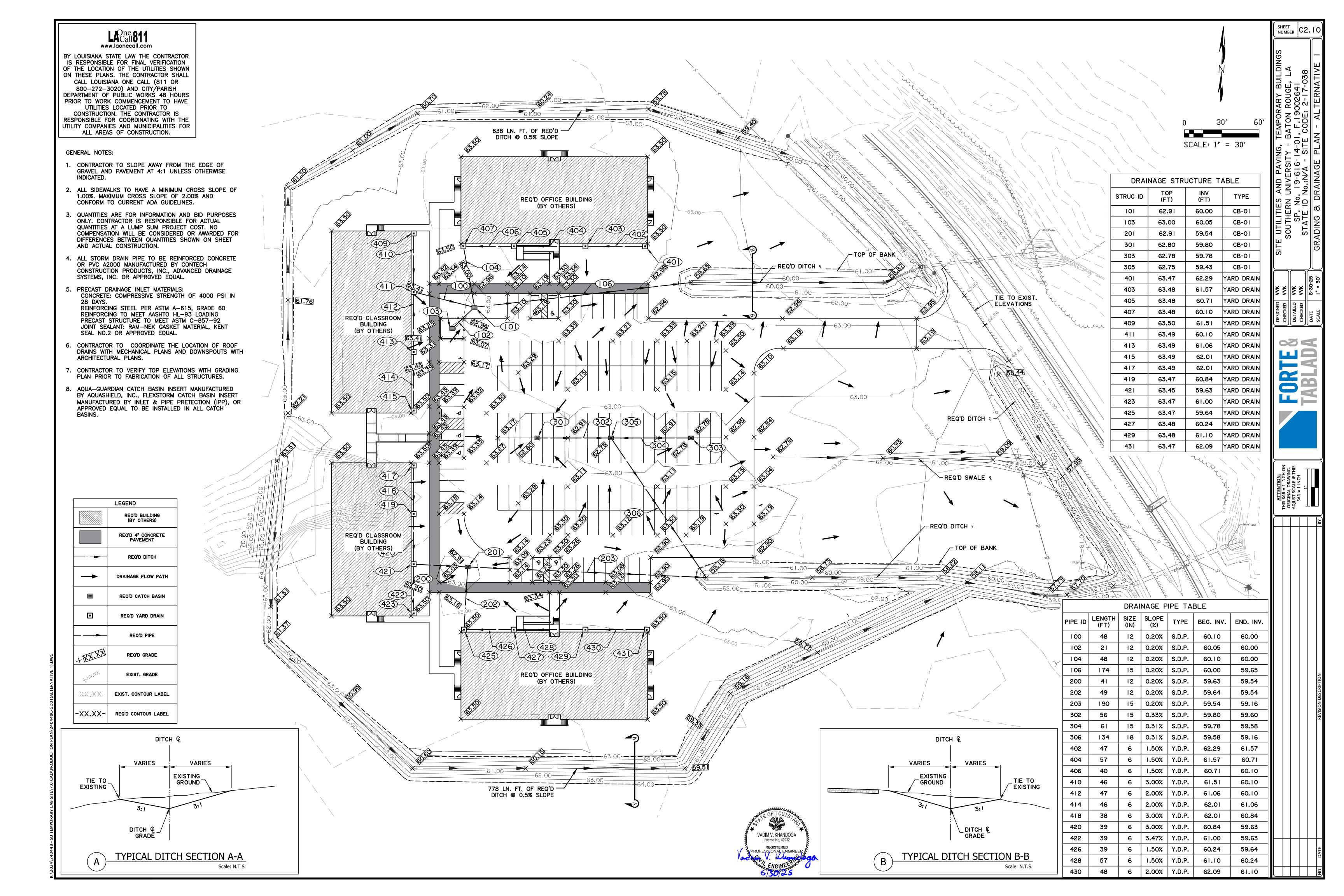
20.00 | 9000'00"

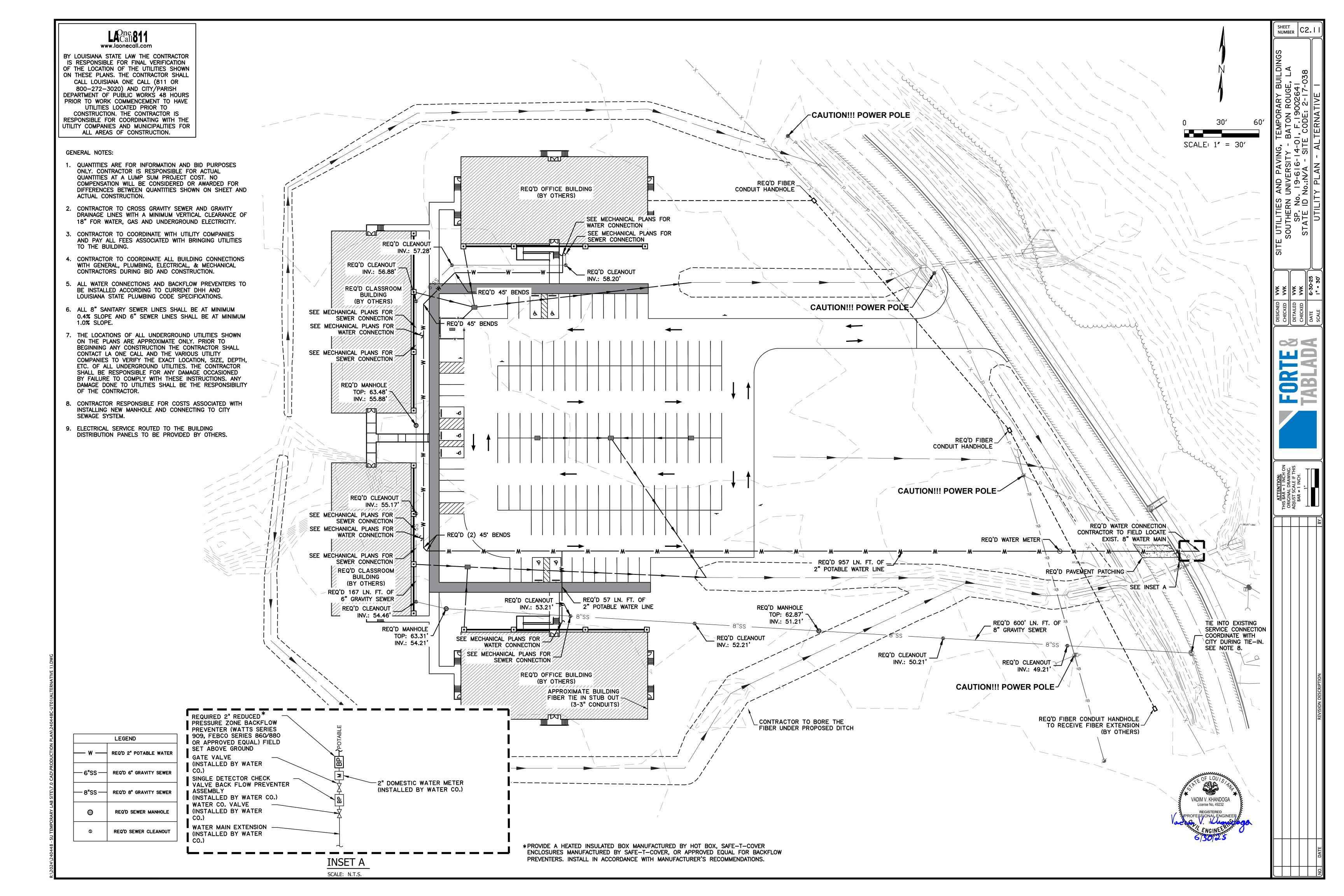
VADIM V. KHANDOGA

License No. 49232

CURVE # RADIUS DELTA

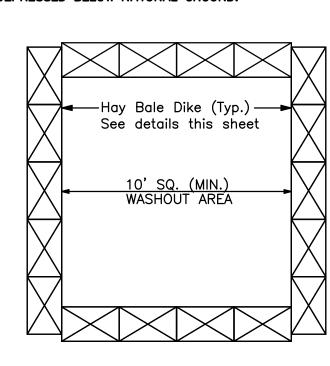






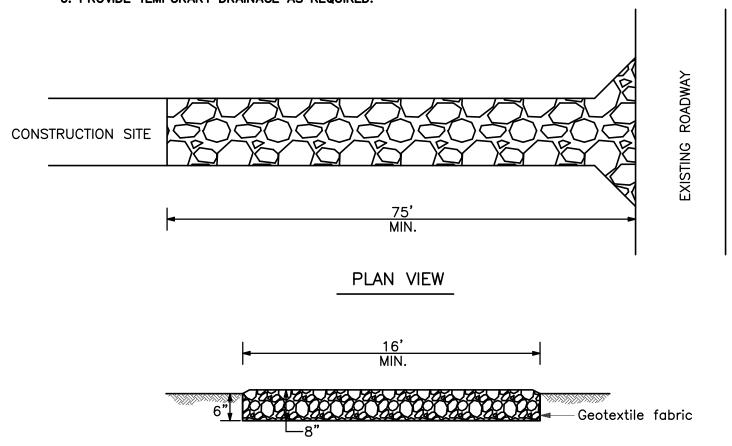
- 1. CONCRETE WASHOUT AREA, AS DESIGNATED IN THE PLANS OR DESCRIBED HEREIN, SHALL BE CONSTRUCTED AND MAINTAINED TO ALLOW CONCRETE TRUCKS A PLACE TO WASHOUT PRIOR TO EXITING THE SITE.
- 2. WASHOUT AREA TO BE CONSTRUCTED WITH HAY BALE PERIMETER AS DETAILED ON THIS SHEET. MINIMUM SIZE OF WASHOUT TO BE 10' X 10' OPEN AREA.
- 3. UPON COMPLETION OF ALL CONCRETE INSTALLATIONS, WASHOUT CONCRETE SHALL BROKEN AND PROPERLY DISPOSED.
- 4. WASHOUT AREA TO HAVE A FLAT BOTTOM (0% SLOPE).
- 5. WASHOUT AREA SHALL NOT BE DEPRESSED BELOW NATURAL GROUND.

NOTES:



STANDARDS FOR STABILIZED CONSTRUCTION ENTRANCE/EXIT

- 1. A STONE STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE CONSTRUCTED AT THE LOCATIONS DESIGNATED ON THE PLANS OR DESCRIBED HEREIN.
- 2. A GEOTEXTILE FABRIC UNDERLINER SHALL BE INSTALLED.
- 3. MINIMUM DIMENSIONS OF THE STONE DRIVE SHALL BE: A. LENGTH = 75'
 - B. WIDTH = 16'
- C. THICKNESS = 8"
- 4. 4"-7" STONE TO BE USED ON DRIVE.
- 5. CONTRACTOR TO VERIFY WITH PERMITTING AUTHORITY ANY PROJECT-SPECIFIC ENTRANCE SPECIFICATIONS.
- 6. PROVIDE TEMPORARY DRAINAGE AS REQUIRED.

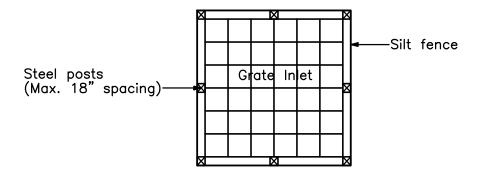


STANDARDS FOR INLET SILT TRAP

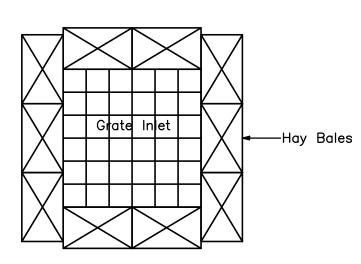
TYPICAL SECTION

NOTES:

1. INLET SILT TRAP IS TO BE USED WHEN THE STORM DRAINAGE IS FUNCTIONAL, BUT BEFORE THE DRAINAGE AREA IS STABILIZED. 2. INLET SILT TRAP CAN BE FORMED FROM EITHER SILT FENCING OR HAY BALES USING THE RESPECTIVE DETAILS ON THIS SHEET.



SILT TRAP W/SILT FENCE



SILT TRAP W/HAY BALES

STANDARDS FOR HAY BALES

DEFINITION

A TEMPORARY BARRIER CONSTRUCTED WITH HAY BALES WITH A LIFE EXPECTANCY OF 3 MONTHS OR LESS, INSTALLED ACROSS OR AT THE TOE OF A SLOPE. HAY BALES TO BE USED IN CONJUNCTION WITH SILT FENCING AS REQUIRED OR AS DIRECTED BY GOVERNING AUTHORITY. **PURPOSE**

THE PURPOSE OF A HAY BALE DIKE IS TO INTERCEPT AND DETAIN SMALL AMOUNTS OF SEDIMENT FROM UNPROTECTED AREAS OF LIMITED EXTENT. CONDITIONS WHERE PRACTICE APPLIES

THE HAY BALE DIKE IS USED WHERE:

- NO OTHER PRACTICE IS FEASIBLE, AND THERE IS NO CONCENTRATION OF WATER IN A CHANNEL OR OTHER DRAINAGE WAY ABOVE THE BARRIER AND EROSION WOULD OCCUR IN THE FORM OF SHEET AND RILL EROSION, AND
- CONTRIBUTING DRAINAGE AREA IS LESS THAN ONE-HALF ACREM AND THE LENGTH OF SLOPE ABOVE THE DIKE IS LESS THAN 100 FEET. THE PRACTICE MAY ALSO BE USED FOR ALONE, SINGLE FAMILY LOT IF THE SLOPE IS LESS THAN 15 PERCENT. THE CONTRIBUTING DRAINAGE AREA IN THIS INSTANCE SHALL BE LESS THAN 1 ACRE AND THE LENGTH OF SLOPE ABOVE THE DIKE SHALL BE LESS THAN 200 FEET.

STORMWATER POLLUTION PREVENTION PLAN

1.0 GENERAL INFORMATION

A. PROJECT DESCRIPTION: SITE UTILITIES AND PAVING, TEMPORARY BUILDINGS BATON ROUGE, LOUISIANA

B. PROJECT OWNER: SOUTHERN UNIVERSITY

**F. GENERAL PERMIT: **

S.P. NO.19-616-14-01, F.1900264

C. CONSTRUCTION TYPE:

D. SOIL DISTURBANCE ACTIVITIES:

PAVING & DRAINAGE, SITE GRADING, DRAINAGE, TRENCHING, EXCAVATION, FILLING PARKING & DRIVES, UTILITIES AND OTHER RELATED ACTIVITIES.

E. SITE DESCRIPTION AND CHARACTERISTICS: TOTAL SITE AREA: 11.1± ACRES

STORM WATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES TOTAL DISTURBED AREA: 6.4± ACRES - PERMIT NO. LAR200000 (SITES LESS THAN 5 ACRES) RECEIVING WATERS: UNNAMED DITCH

2.0 SEQUENCE OF MAJOR ACTIVITIES, CONTROL MEASURES, AND STABILIZATION DATES

MAJOR ACTIVITY	CONTROL MEASURES	TIMING/SEQUENCE	RESPONSIBLE CONTRACTOR	DATE BEGAN	TEMPORARILY OR PERMANENTLY	DATE STABILIZED
1. Clearing, grubbing, rough grading	 Stabilized construction entrance; Silt fencing; Hay bales 	Constructed prior to and during activity				
2. Utility construction (water, sewer, electrical)	1. Stabilized trenches	Prior to installation				
3. Building foundation	Construct/coordinate concrete washout area	Prior to placing concrete				
4. Building construction	Stabilize denuded areas with seed and mulch	Immediately after rough grading				
5. Site paving	Storm drainage system protection	Prior to setting forms				
6. Finish grading & landscaping	1. Sod, seed, erosion fabric, landscape, fertilize & water	At completion of finish grading				

3.0 GENERAL SWPPP NOTES

- 1. CONTRACTOR TO OBTAIN GENERAL PERMIT LAR200000 AND COMPLY WITH ALL REQUIREMENTS, REPORTING PROCEDURES, RECORDS DATABASE, NOTIFICATIONS & OTHER REQUIREMENTS AS REQUIRED BY THE PERMIT.
- 2. CONTRACTOR TO POST NOTICE AT SITE IN ACCORDANCE WITH GENERAL PERMIT.
- 3. CONTRACTOR TO MAINTAIN ALL CONTROL MEASURES, IN EFFECTIVE OPERATING CONDITION, UNTIL PERMANENT GROUND COVER IS ESTABLISHED AND PAVING COMPLETED.
- 4. CONTRACTOR TO COMPLETE AND SUBMIT STORMWATER POLLUTION PREVENTION PLAN (SWPPP) TO ALL APPLICABLE REGULATING AUTHORITIES.
- 5. CONTRACTOR TO COMPLETE AND SUBMIT NOTICE OF INTENT & NOTICE OF TERMINATION AS REQUIRED BY THE GENERAL PERMIT.
- 6. STABILIZATION MEASURES OF DISTURBED AREAS WHERE CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED SHALL BE INITIATED WITHIN 14 CALENDAR DAYS, UNLESS EARTH DISTURBING ACTIVITIES ARE TO RESUME WITHIN 21 CALENDAR DAYS.
- 7. CONTRACTOR TO KEEP CONSTRUCTION ACTIVITIES, DEBRIS AND SEDIMENTATION WITHIN PROPERTY LINES AND SERVITUDES. ANY DEBRIS AND SEDIMENTATION ESCAPING THE CONSTRUCTION SITE SHALL BE IMMEDIATELY RECLAIMED BY THE CONTRACTOR. CONTRACTOR SHALL KEEP PUBLIC RIGHTS OF WAY AND STREETS CLEAN.
- 8. SEDIMENT & EROSION CONTROL DEVICES INDICATED ON PLAN SHALL BE CONSIDERED A MINIMUM STANDARD. ADDITIONAL DEVICES AS REQUIRED BY GOVERNING AUTHORITIES SHALL BE PROVIDED, INSTALLED, INSPECTED AND MAINTAINED BY THE CONTRACTOR AT NO DIRECT COST TO OWNER OR ENGINEER. 9. CONTRACTOR IS RESPONSIBLE FOR CLEANING OUT ALL STORM DRAINAGE STRUCTURES AFFECTED BY CONSTRUCTION OF THIS PROJECT, INCLUDING MANHOLES, FLUMES, PIPES, PONDS, ETC., PRIOR TO COMPLETION OF THE PROJECT.
- 10. CONTRACTOR IS RESPONSIBLE FOR ALL FINES ASSOCIATED WITH THE DISCHARGE OF SEDIMENT, EROSION, OR POLLUTANTS CAUSED BY THIS WORK. 11. AT THE END OF EACH WORK DAY AND AFTER EVERY RAINSTORM, CONTRACTOR WILL BE REQUIRED TO SWEEP AND REMOVE ALL DIRT, MUD, OR SILT THAT ACCUMULATES ON PUBLIC STREETS AS A RESULT OF CONSTRUCTION ACTIVITY FOR THIS PROJECT.
- 12. OPERATOR TO MARK-UP THIS TABLE AND PLAN WITH APPLICABLE DATES AND ACTIVITIES (I.E., DATE A SILT FENCE IS MOVED).

4.0 INSPECTION & REPORTING

EVENT OF 0.5 INCHES OR GREATER.

1. QUALIFIED PERSONNEL SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE. INSPECTIONS SHALL BE PERFORMED AT LEAST ONCE EVERY 14 CALENDAR DAYS, BEFORE ANTICIPATED STORM EVENTS, AND WITHIN 24 HOURS OF A STORM

2. A REPORT SUMMARIZING THE SCOPE OF EACH INSPECTION AND ACTION REQUIRED AND/OR TAKEN MUST BE FILLED OUT AND

3. INSPECTION REPORTS TO BE KEPT WITH THE SWPPP (ON-SITE). 4. ALL INSPECTIONS AND REPORTING TO BE PERFORMED IN ACCORDANCE WITH PERMIT LAR200000.

5.0 SITE OPERATOR CERTIFICATION SITE OPERATOR HEREBY CERTIFIES THAT ALL SWPPP ISSUES AND REQUIREMENTS AS SET FORTH IN GENERAL PERMIT LAR200000 HAVE

SITE OPERATOR CERTIFICATION:

SIGNATURE DATE

**The Contractor is advised to complete the required plan in accordance with LA DEQ General Permit LAR200000 and submit as soon as possible use silt fences in live streams or template for the plan can be www.redacdov/npdes/swpppquide

1. COST OF STORM WATER POLLUTION PREVENTION PLAN TO BE ACCOUNTED FOR BY CONTRACTOR.

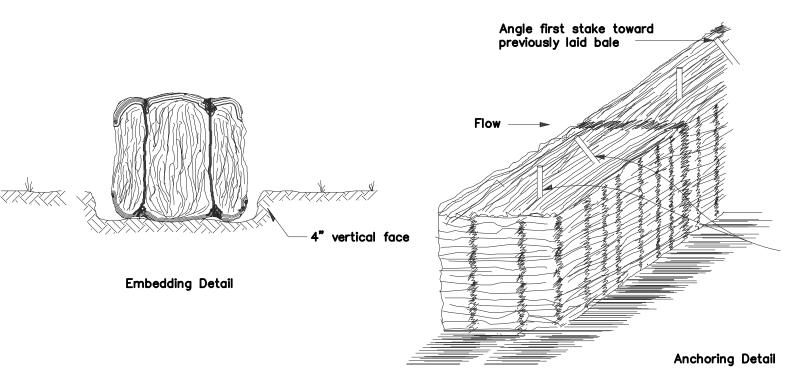
DESIGN CRITERIA

A DESIGN IS NOT REQUIRED. ALL BALES SHALL BE PLACED ON THE CONTOUR AND SHALL BE EITHER WIRE BOUND OR NYLON STRING TIED. SEE STANDARD DRAWING FOR HAY BALE DIKE FOR DETAILS.

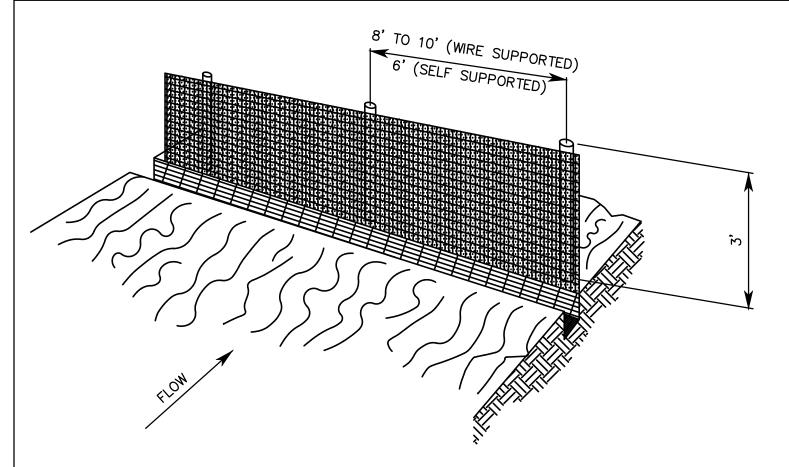
GENERAL NOTES

BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES. EACH BALE SHALL BE EMBEDDED IN THE SOIL. A MINIMUM OF FOUR INCHES, WHERE POSSIBLE. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR REBARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALE TOGETHER. 4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED BY

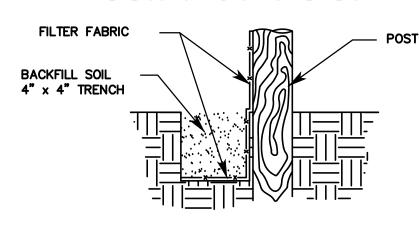
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULINESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE. 6. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES.



HAY BALE DIKE



EXTENSION OF FABRIC INTO THE TRENCH



CONSTRUCTION OF TEMPORARY SILT FENCING (WIRE SUPPORTED FENCE IS SHOWN. SELF SUPPORTED SILT FENCE WILL BE CONSTRUCTED ACCORDING TO MANUFACTURERS SPECIFICATIONS.)

SILT FENCING IS A TEMPORARY BARRIER CONSISTING OF A FILTER FABRIC SUPPORTED BY POSTS AND STRETCHED ACROSS AN AREA TO INTERCEPT AND DETAIN SMALL AMOUNTS OF SEDIMENT. THE SILT FENCING SHALL BE IN ACCORDANCE WITH SECTION 204 OF THE LA DOTD STANDARD SPECIFICATIONS. A FEW BASIC GUIDELINES FOR THE USE OF SILT FENCING ARE:

- USE WHERE EROSION WOULD OCCUR IN THE FORM OF SHEET AND RILL EROSION;
- 2. USE WHERE THE MAXIMUM DRAINAGE AREA BEHIND THE SILT FENCE IS 1/4 ACRE PER 100 FEET OF SILT FENCE LENGTHS;
- 3. USE WHERE THE MAXIMUM SLOPE LENGTH BEHIND THE BARRIER IS 100 FEET;
- 4. USE WHERE THE MAXIMUM GRADIENT BEHIND THE BARRIER IS 2:1;
- IN DITCHES OR SWALES WHERE FLOWS EXCEED ONE CUBIC FOOT PER SECOND.

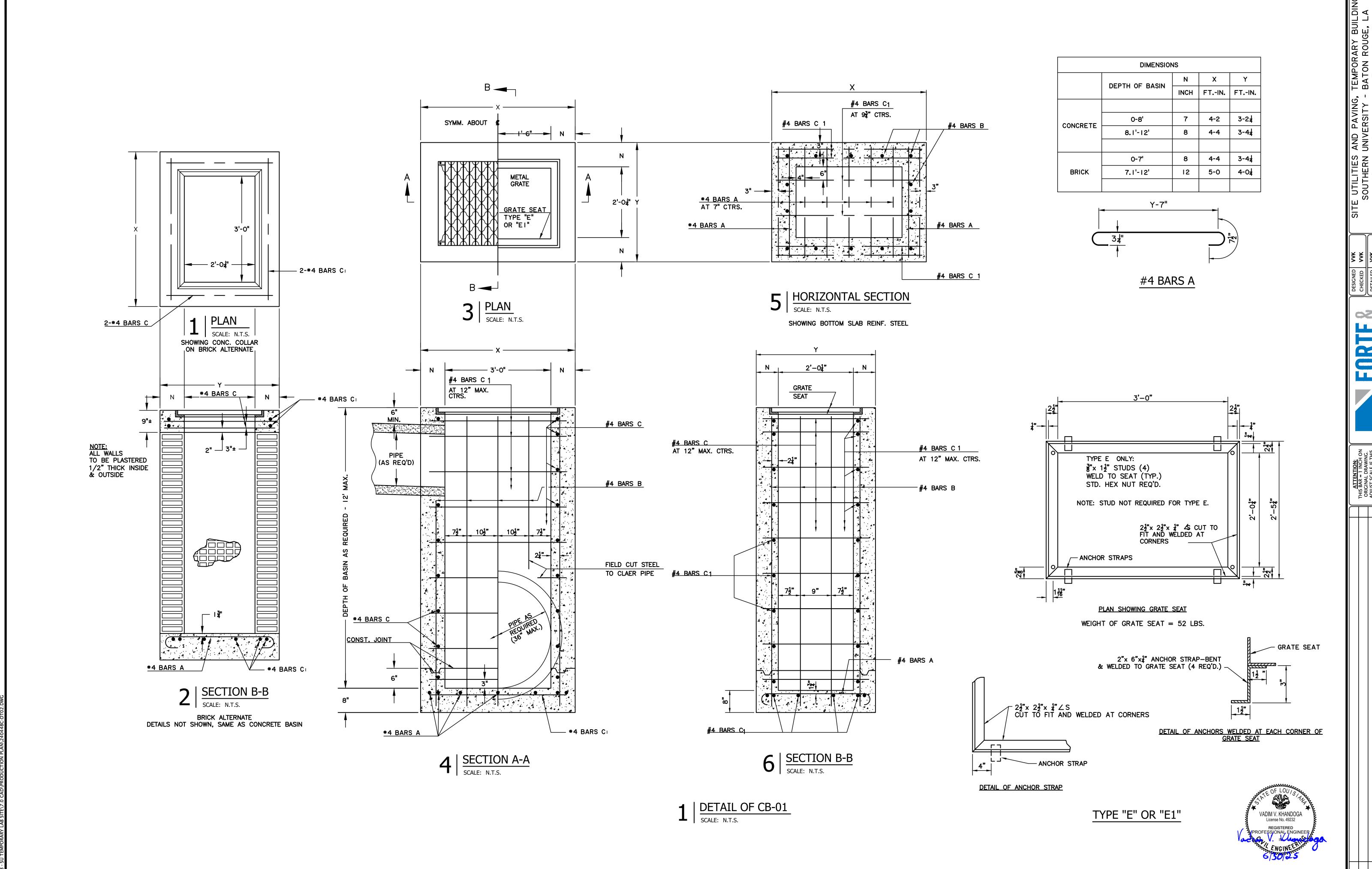


SHEET C3.0

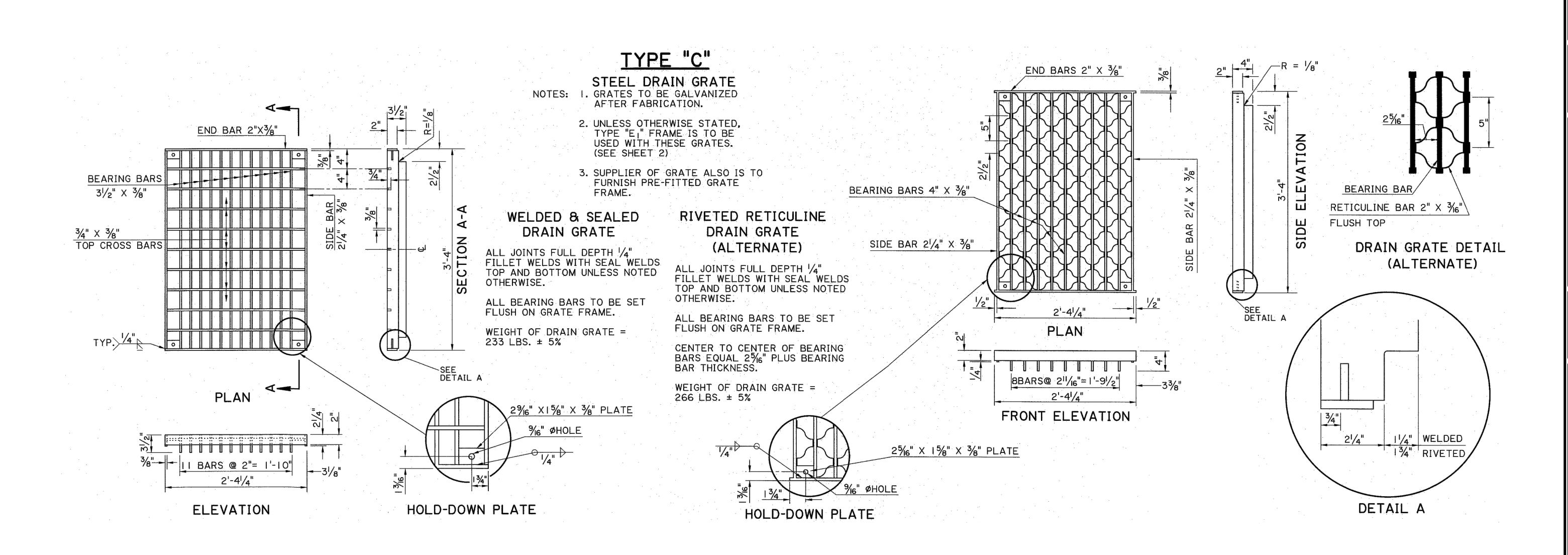








SHEET C3.02



SHEET C3.03

IES AND PAVING, TEMPORARY BUILDIN RN UNIVERSITY - BATON ROUGE, LA No. 19-616-14-01, F.19002641 ID No.:N/A - SITE CODE: 2-17-038

DETAILED VVK
CHECKED VVK
DATE 6-30-25

DESIGNED
CHECKED
CHECKED
CHECKED
CHECKED
CHECKED
SCALE



ATTENTION:
THIS BAR = 1 INCH ON
ORIGINAL DRAWING.
ADJUST SCALE IF THIS
BAR # 1 INCH.

 $1\mid_{\frac{\text{DRAIN GRATE DETAILS}}{\text{SCALE: N.T.S.}}}$



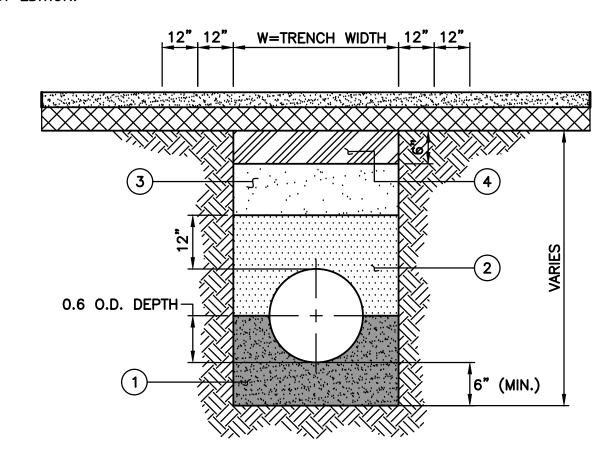
NOTES:
1. TO BE CONSTRUCTED FOR ALL DROPS OVER 20".

2. ALL MANHOLE CONNECTIONS SHALL BE CORED WITH A CONCRETE CORING MACHINE.

3. APPROVED PRECAST DROP MANHOLES MAY BE USED.

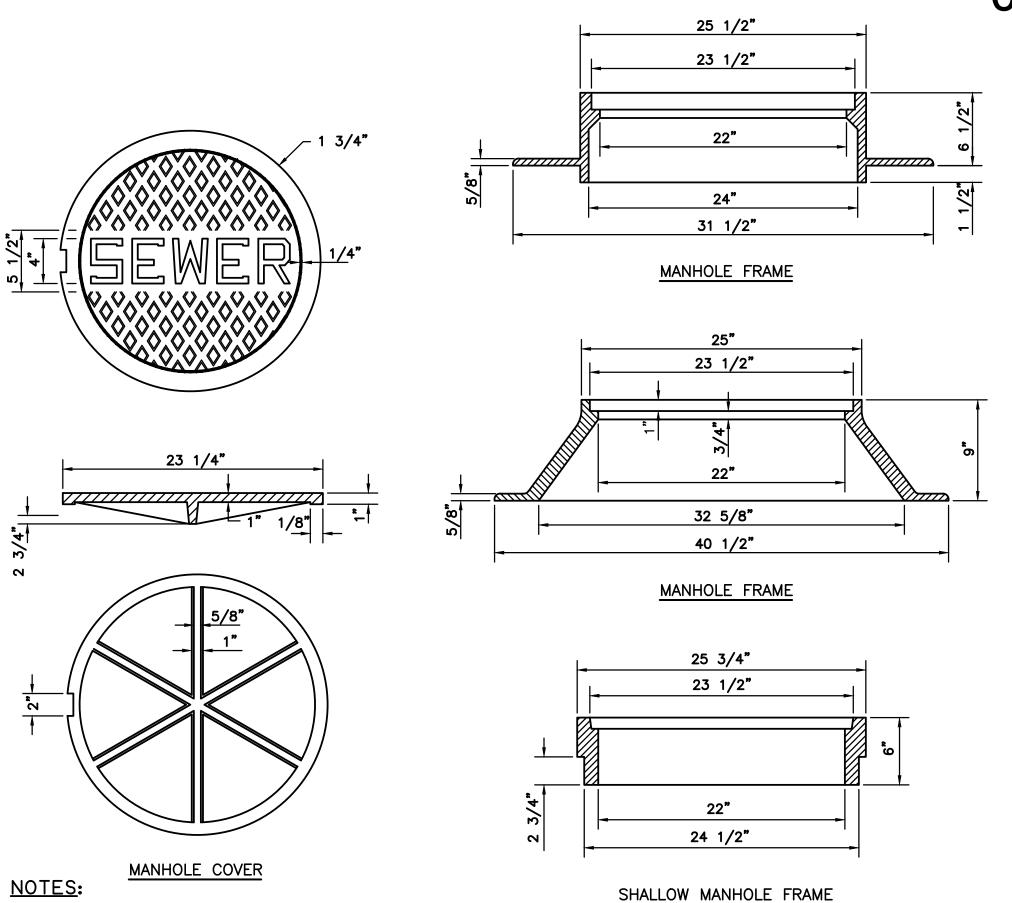
01 DETAIL OF SANITARY SEWER DROP MANHOLE SCALE: N.T.S.

NOTES:
ALL SUPERPAVE ASPHALTIC CONCRETE
MIXTURES SHALL CONFORM TO SECTION
502 OF THE LA STANDARD
SPECIFICATIONS FOR ROADS AND
BRIDGES, LATEST EDITION.



- 1) GRANULAR BEDDING MATERIAL COMPACTED TO 95% STANDARD PROCTOR DENISTY. (NO DIRECT PAY).
- 2 BACKFILL MATERIAL (QUALITY EXCAVATED OR SELECT MATERIAL OR SAND). COMPACTED TO A DENSITY AT LEAST EQUAL TO SURROUNDING UNDISTURBED SOIL. (NO DIRECT PAY).
- 3 BACKFILL MATERIAL (SAND). COMPACTED TO 95% STANDARD PROCTOR DENSITY. (NO DIRECT PAY).
- BACKFILL MATERIAL (SAND-CLAY GRAVEL MATERIAL OR EQUIVALENT). COMPACTED TO A DENSITY AT LEAST EQUAL TO THE SURROUNDING UNDISTURBED SOIL. (NO DIRECT PAY).

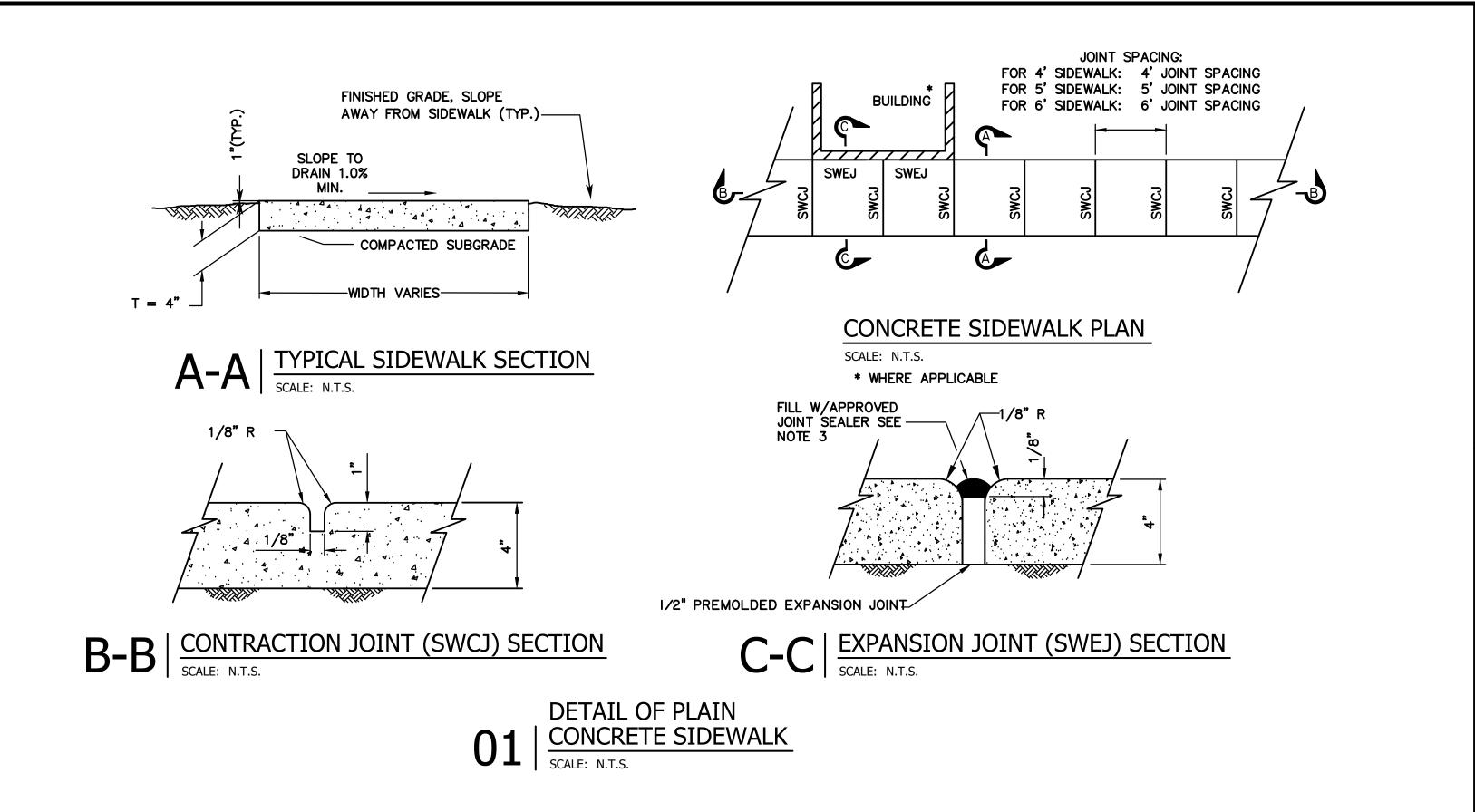
02 | STANDARD BEDDING AND BACKFILL DETAILS FOR SANITARY SEWER PIPE SCALE: N.T.S.

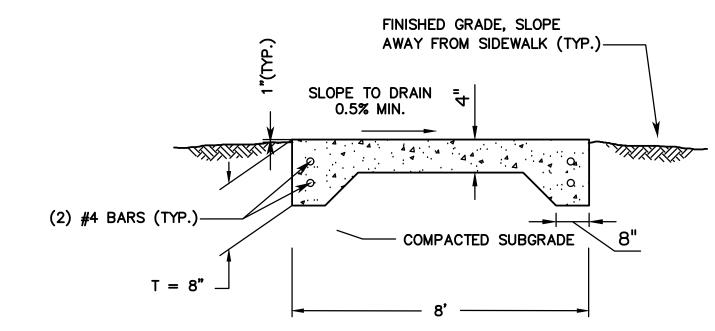




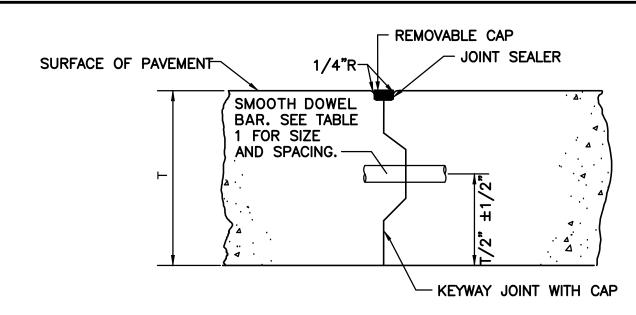
SHEET C3.04

ALL MANHOLE COVERS SHALL BE LOCKABLE WITH STAINLESS STEEL SECURITY BOLTS





TYPICAL SIDEWALK SECTION

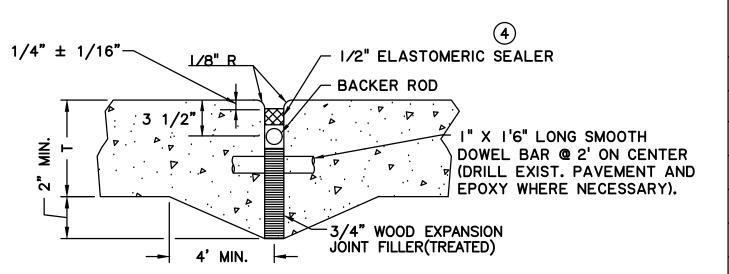


03 | CONSTRUCTION JOINT DETAIL (TYPE CJ1)
SCALE: N.T.S.

JOINT SEALER SEE DETAILS A, B, C, D 1/4" ± 1/16" — AND E (THIS SHEET) " REDWOOD OR ÉNGINEER APPROVED

04 | EXPANSION JOINT DETAIL (TYPE EJ4)

SCALE: N.T.S.



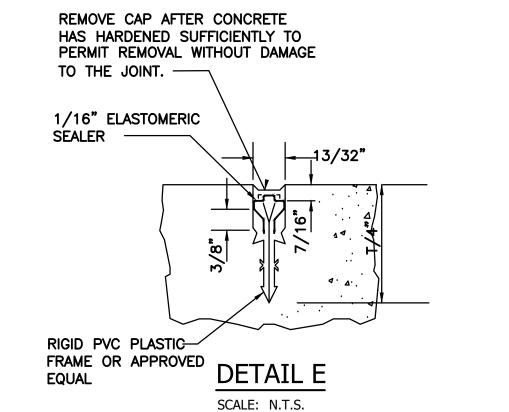
EXPANSION JOINT DETAIL (TYPE EJ3)

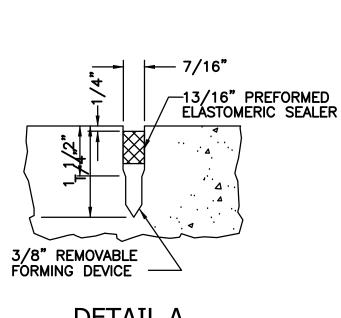
SCALE: N.T.S.

		<u>T</u> .	ABLE	<u>1</u>		
	(AL	L DIMENS	IONS ARE	IN INCH	ES)	
PAVEMENT THICKNESS	SMOC	TH DOWEL	BARS	D	EF. TIE B	ARS
" T"	SIZE	LENGTH	SPACING	SIZE	LENGTH	SPACING
	PLA	IN (UNREII	NFORCED)	PAVEMEI	NTS	
<5			NOT NE	CESSARY		
5	NO	OT NECESS	ARY	1/2	24	24
6	1	14	12	1/2	24	24
7	1	14	12	1/2	24	24
8	1 1/4	18	12	1/2	24	24
9	1 1/4	18	12	1/2	24	24
10	1 1/2	18	12	1/2	24	24
11	1 1/2	18	12	5/8	30	24
12	1 1/2	18	12	5/8	30	24
13	1 1/2	18	12	5/8	30	24
14	1 1/2	18	12	5/8	30	24

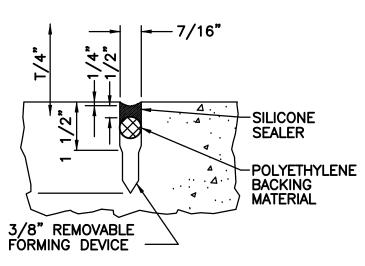
NOTES

- 1) PAVEMENT EDGES SHALL BE SLIGHTLY ROUNDED (1/8"R APPROX.).
- (2) NOT USED THIS JOB.
- (3) ALL JOINTS TO BE USED WHERE SHOWN IN THE PLANS OR AS OTHERWISE DIRECTED BY THE ENGINEER.
- TYPE DJ JOINTS MAY BE FORMED AND SEALED BY ANY OF THE MATERIALS LISTED BELOW. ALL JOINTS SHALL BE FORMED OR SAW CUT TO THE DEPTH SHOWN AND SHALL BE CLEANED IMMEDIATELY PRIOR TO SEALING.
 - A.) WHEN JOINTS ARE FORMED WITH A REMOVABLE FORMING DEVICE, THE JOINTS SHALL BE SEALED WITH PREFORMED ELASTOMERIC SEALER OR SILICONE SEALER. THE SEALANT RESERVOIR SHALL BE SAW CUT TO THE REQUIRED WIDTH AND DEPTH. (SEE DETAILS "A" & "B")
- B.) WHEN JOINTS ARE FORMED BY SAWING, THE INITIAL CUT SHALL BE SAWED WITH A 1/8" MIN. WIDTH BLADE. SAWING SHALL COMMENCE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT CUTTING THE CONCRETE WITHOUT CHIPPING, SPALLING OR TEARING AND SHALL BE COMPLETED WITHIN 12 HOURS OF POURING AND PRIOR TO DEVELOPMENT OF RANDOM CRACKING. THE SEALANT RESERVOIR MAY BE SAW CUT TO THE REQUIRED WIDTH AND DEPTH SIMULTANEOUSLY WITH THE FIRST CUT OR AT ANY TIME LATER. JOINTS SHALL BE SEALED WITH PREFORMED ELASTOMERIC SEALER OR SILICONE SEALER. (SEE DETAIL "C" OR "D")
- 5 DOWEL BARS & TIE BARS SHALL BE HELD IN PLACE BY SUPPORTS SIMILAR TO THOSE SHOWN OR APPROVED EQUALS. APPROVED MECHANICAL PLACEMENT OF DOWEL BARS AND TIE BARS WILL BE ALLOWED WITH ALL PAVING METHODS. WHEN DOWEL BAR BASKETS ARE USED, SPACER WIRES THAT SPAN ACROSS THE JOINT SHALL BE CUT AND REMOVED AFTER STAKING BASKETS IN PLACE.
- (6) NOT USED THIS JOB.
- (7) WHEN CONSTRUCTING CONCRETE CURB AND GUTTER ADJACENT TO NEW P.C.C. PAVEMENT, USE TYPE LCJ JOINT. WHEN ADJACENT TO EXISTING P.C.C. PAVEMENT, USE TYPE LBJ JOINT.
- (8) WHEN A MOUNTABLE TYPE CURB IS POURED MONOLITHIC WITH THE CONCRETE PAVEMENT AND AN APPROVED MECHANICAL DEVICE IS USED FOR LOAD TRANSFER PLACEMENT, THE FIRST LOAD TRANSFER DEVICE SHALL BE INSTALLED 18" FROM THE PAVEMENT EDGE.
- (9) TRANSVERSE EXPANSION JOINTS ARE NOT TO BE USED FOR CONSTRUCTION JOINTS.
- (10) WHEN PLASTIC OR EPOXY COATED DOWEL BARS ARE USED, THE DOWEL BARS SIZE MAY BE REDUCED 1/8".
- (11) REFERENCE TO NOTES





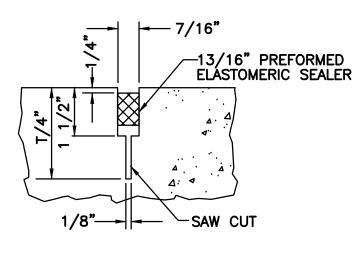
DETAIL A SCALE: N.T.S.



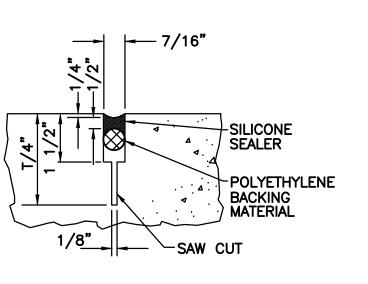
DETAIL B SCALE: N.T.S.

EXPANSION JOINT

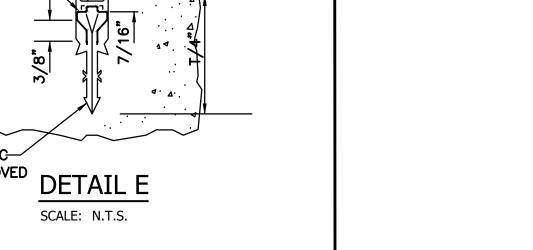
MATERIAL



DETAIL C SCALE: N.T.S.

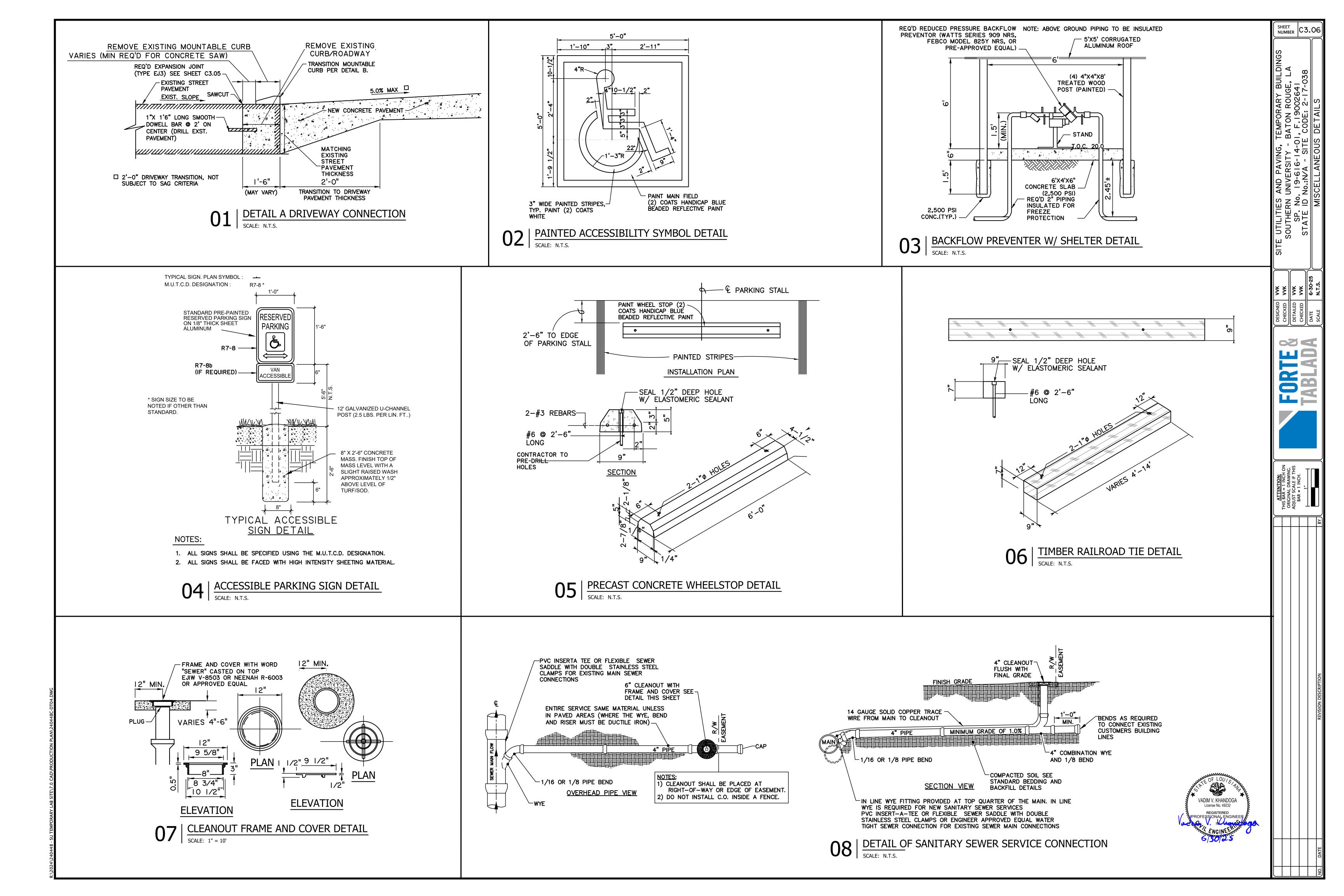


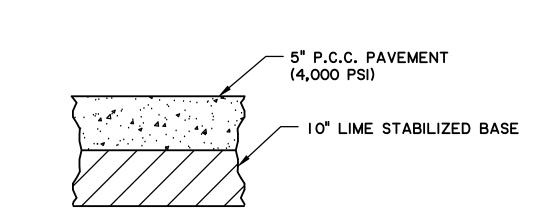
DETAIL D SCALE: N.T.S.





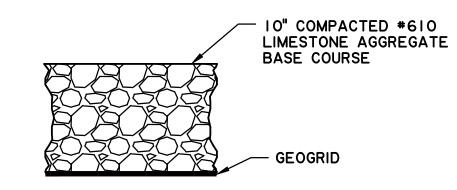
SHEET C3.05





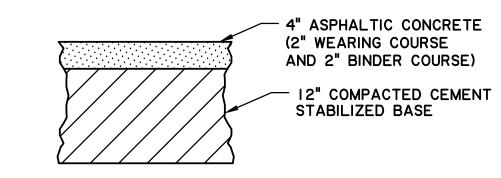
TYPICAL PARKING AND DRIVEWAY PAVEMENT SECTION

SCALE: N.T.S.



02 TYPICAL UNPAVED PARKING SECTION SCALE: N.T.S.

: AGGREGATES USED SHOULD MEET
REQUIREMENTS OF SECT. 1003.4 (A) OF THE
LADOTD STANDARD SPEC. FOR ROADS &
BRIDGES 2000 EDITION. AGGREGATE
SURFACE TO BE COMPACTED TO RELATIVE DENSITY OF 75% OR HIGH (ASTM D 4523 OR ASTM D 4524) OR TO A DRY DENSITY OF 95% OF ITS MAX. DRY DENSITY (MOD. PROCTOR ASTM D 1577) DOSAGE OF LIME AND CEMENT WILL HAVE TO BE DETERMINED BY GEOTECHNICAL LAB.

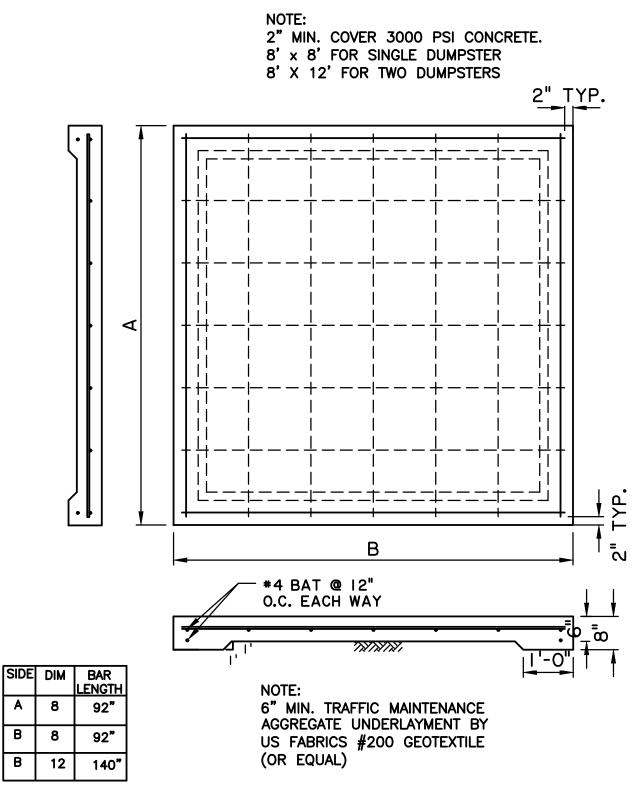


TYPICAL ASPHALTIC CONCRETE PAVEMENT SECTION

SCALE: N.T.S

- 8" P.C.C. PAVEMENT (4,000 PSI) / IO" LIMES STABILIZED BASE

> TYPICAL DUMPSTER PAD 04 | PAVEMENT SECTION SCALE: N.T.S.

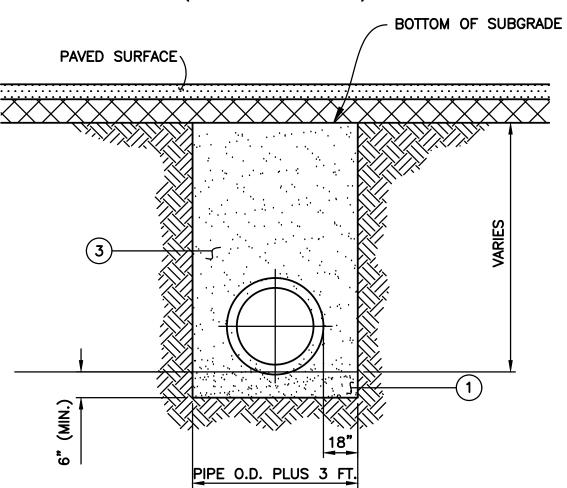


05 | DETAIL OF DUMPSTER SLAB SCALE: N.T.S.

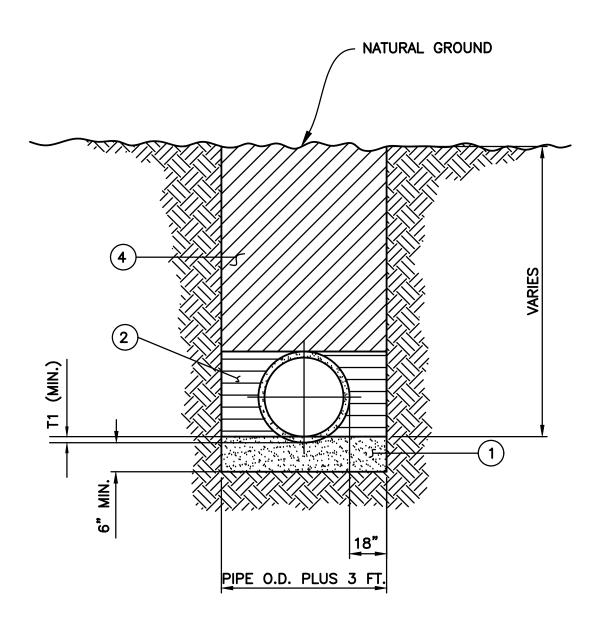


SHEET C3.07

RIGID PIPE (REINFORCED CONCRETE)



PIPE UNDER OR WITHIN 5 FEET OF STREETS AND PAVED SURFACES.



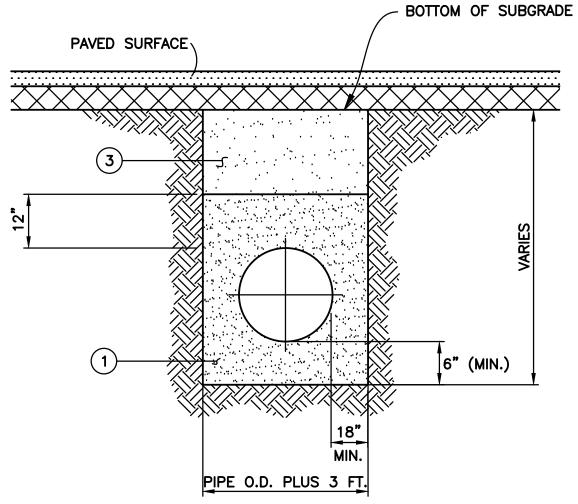
OPEN GROUND OUTSIDE LIMITS OF STREETS AND PAVED SURFACES.

PIPE BEDDING SCHEDULE (RIGID PIPE)

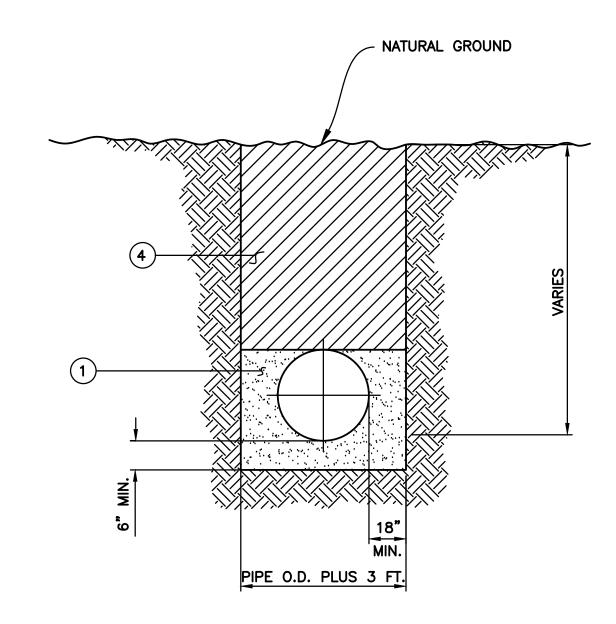
PIPE SIZE	T I (MIN.)
:12"-30"	6"
36"-60"	12"
66"-96"	18"

* 12" DIAMETER PIPE MAY ONLY BE USED UNDER SPECIAL CONDITIONS.

FLEXIBLE PIPE (CORRUGATED METAL, POLYVINYL CHLORIDE, AND POLYETHYLENE)



PIPE UNDER OR WITHIN 5 FEET OF STREETS AND PAVED SURFACES.



OPEN GROUND OUTSIDE LIMITS OF STREETS AND PAVED SURFACES.

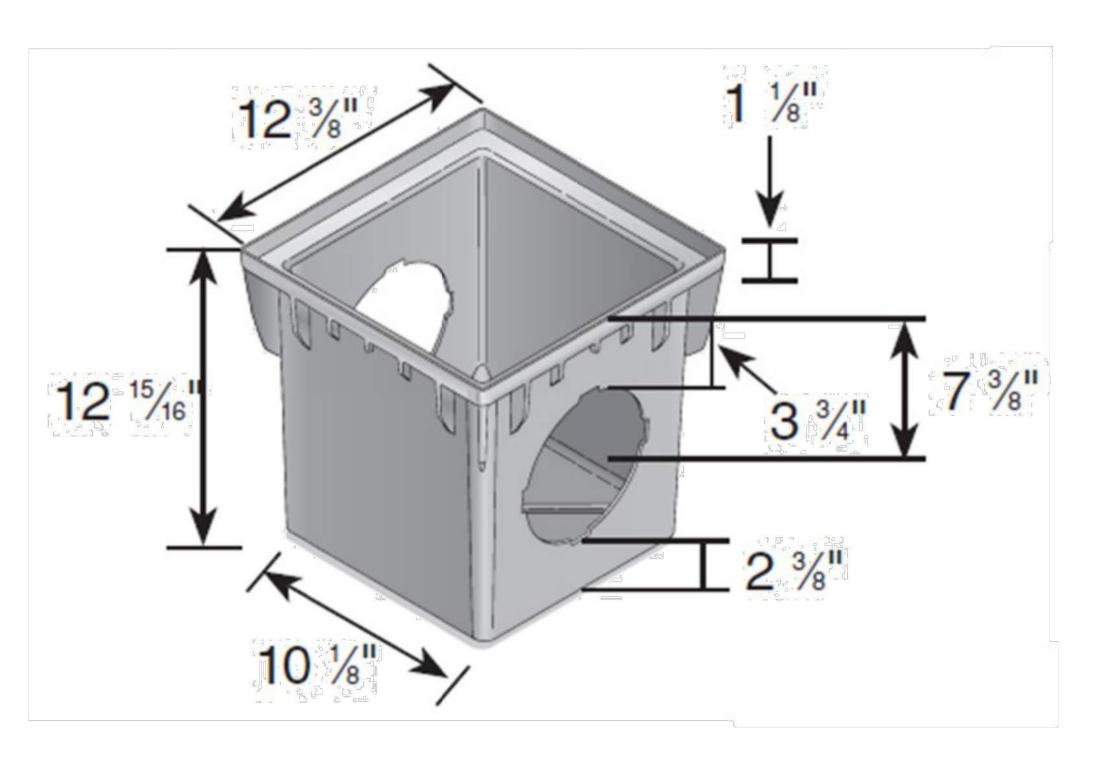
- GRANULAR BEDDING MATERIAL COMPACTED TO 95% STANDARD PROCTOR DENISTY. (NO DIRECT PAY).
- BACKFILL MATERIAL (QUALITY EXCAVATED OR SELECT MATERIAL OR SAND). COMPACTED TO A DENSITY AT LEAST EQUAL TO SURROUNDING UNDISTURBED SOIL. (NO DIRECT PAY).
- BACKFILL MATERIAL (SAND). COMPACTED TO 95% STANDARD PROCTOR DENSITY. (NO DIRECT PAY).
- BACKFILL MATERIAL (QUALITY EXCAVATED OR SELECT MATERIAL).
 COMPACTED TO A DENSITY AT LEAST EQUAL TO THE SURROUNDING UNDISTURBED SOIL. (NO DIRECT PAY).

O1 | STANDARD BEDDING AND BACKFILL DETAILS FOR RIGID AND FLEXIBLE STORM DRAINAGE PIPE | SCALE: N.T.S.



TECHNICAL SPECIFICATIONS

12" x 12" CATCH BASIN

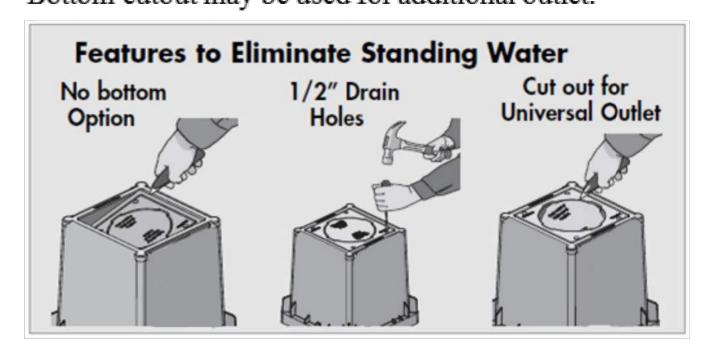


1200BLKIT- Catch basin with 2 openings 1200- Catch basin with two openings 1203- Catch basin with 3 openings

1204- Catch basin with 4 openings

Material: Polypropylene

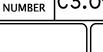
Colors: Black (1200BLKIT, 1200, 1203,1204)
Fits: Requires either part # 1206, #1242, # 1243, #1245, #1266, or # 1889 Universal Outlet for each opening.
Bottom cutout may be used for additional outlet.



851 N. Harvard Avenue Lindsay, CA 93247 800-726-1994







PAVING, TEMPORARY BUILDIN ERSITY - BATON ROUGE, LA 616-14-01, F.19002641 VA - SITE CODE: 2-17-038

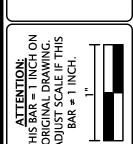
SP. No. 19-616-14-01, F.19002 STATE ID No.:N/A - SITE CODE: 2-

HECKED VVK
HECKED VVK

ATE 6-30-25

CALE N.T.S.







Catch Basin & Channel Drain Kits

Part No.	Description	Grate	Box Qty.	Load Class*
864GMTL	5" Pro Series® Channel Drain Kit with Metal Grate	Galvanized Steel	3	В
900MTLKIT	9" x 9" Catch Basin Kit with Metal Grate	Galvanized Steel	1	С
1200MTLKIT	12" x 12" Catch Basin Kit with Metal Grate	Galvanized Steel	1	С







864GMTI

00MTI KIT

1200MTLKI

Galvanized Steel Grates

Part No.	Description	Flow Capacity	Box Qty.	Load Class*
824	20" Grate for 5" Pro Series Channel	152.9 GPM/LF	10	В
254	24" Grate for Spee-D® Channel	89.8 GPM/LF	12	В
915	9" x 9" Square Grate	189.5 GPM	1	С
1215	12" x 12" Square Grate	384.1 GPM	1	С
1815	18" x 18" Square Grate	731.1 GPM	1	D
2415	24" x 24" Square Grate	1,292 GPM	1	D



^{*} See NDS 2016/2017 product catalog or visit ndspro.com for complete load recommendation guidance and flow capacity information.





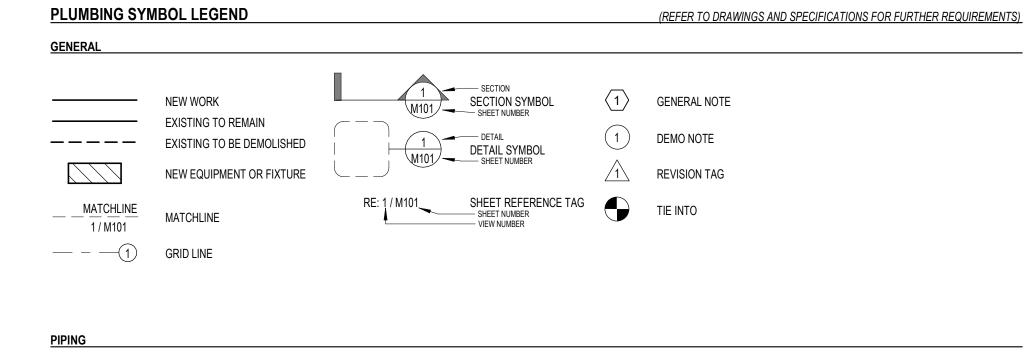
NDS Customer Service 851 N. Harvard Ave., Lindsay, CA 93247 Phone: 800.726.1994 · 559.562.9888 Fax: 800.726.1998 · 559.562.4488



PLUMBING GENERAL NOTES

ALL WORK BY CONTRACTORS SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES, INCLUDING THE CURRENT INTERNATIONAL ENERGY CONSERVATION CODE.

- MATERIALS FURNISHED UNDER THE CONTRACT SHALL BE NEW & SHALL BEAR THE UL LABEL WHERE APPLICABLE, UNLESS NOTED OTHERWISE. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTIVE MATERIALS & WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE YEAR AFTER COMPLETION & ACCEPTANCE BY THE OWNER, LONGER IF STATED OTHERWISE ELSEWHERE IN THE SPECIFICATION.
- CONTRACTOR SHALL INSTALL SYSTEMS WITHOUT INTERFERENCE & PROVIDE MANUFACTURER'S RECOMMENDED AIR & SERVICE CLEARANCES. INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AS REQUIRED TO MAINTAIN WARRANTIES & GUARANTEES. CONTRACTOR SHALL COORDINATE WITH ALL TRADES & DISCIPLINES.
- CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION, INVERT/ DEPTH/ ELEVATIONS OF EXISTING SANITARY SEWER, DOMESTIC WATER, NATURAL GAS, STORM DRAINAGE, ETC. PRIOR TO ANY CONSTRUCTION. CONTRACTOR TO NOTIFY THE MECHANICAL ENGINEER & ARCHITECT FOR FURTHER DIRECTION IF EXISTING PIPING IS NOT AT AN ELEVATION/ INVERT/ DEPTH THAT ALLOWS FOR PROPER INSTALLATION & SLOPE OF NEW UTILITIES.
- PRELIMINARY SEWER INVERT PIPE PLAN: CONTRACTOR SHALL PROVIDE DRAWING (NO LESS THAN 1/8"=1'-0" SCALE) SHOWING PROPOSED INVERTS OF ALL SUBSURFACE PIPING (SANITARY SEWER, STORM DRAINAGE, DOMESTIC WATER, FIRE WATER, CHILLED/HEATING WATER, ETC.) & EXACT LOCATION & SEWER INVERT OF SANITARY SEWER CONNECTION TO MECHANICAL ENGINEER & ARCHITECT FOR REVIEW & APPROVAL PRIOR TO INSTALLATION. NO ADDITIONAL COST WILL BE PROVIDED FOR REINSTALLING SUBSURFACE PIPING IF PRELIMINARY INVERT PIPING PLAN IS NOT
- COORDINATE ALL UNDERGROUND PIPING & WORK WITH EXISTING SYSTEMS. INCLUDING EXISTING SYSTEMS. INCLUDING EXISTING SYSTEMS PRIOR TO BEGINNING WORK. MARKED UTILITIES AND EXISTING SYSTEMS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AND REPAIRED BACK TO ORIGINAL CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONSTRUCTION CONTRACT.
- PLUMBING CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR ON LOCATION OF ALL FLOOR DRAINS & HUB DRAINS AS NOT TO INTERFERE WITH EQUIPMENT & EQUIPMENT PADS. COORDINATE NEW FLOOR DRAIN & HUB LOCATION WHERE EQUIPMENT DOES NOT ALLOW FOR THE INSTALLATION SHOWN FOR DRAIN. COORDINATE HEIGHT OF HUB DRAINS FOR FAN COIL UNITS & CEILING CASSETTES. SEAL ALL OPENINGS AROUND PIPE PENETRATIONS THROUGH WALLS & PARTITIONS WITH APPROVED FIRESTOPPING MATERIAL MEETING ASTM E814 & NFPA-101. PROVIDE ESCUTCHEONS ON PIPING PENETRATING WALLS EXPOSED TO VIEW/WITHIN FINISHED AREAS.
- CONTRACTOR SHALL VISIT THE SITE FOR INSPECTION REGARDING ANY WORK REQUIRED TO COMPLETE THE SCOPE OF WORK FOR THE PROJECT PRIOR TO BID. THERE SHALL BE NO ADDITIONAL COST TO THE OWNER FOR BIDDERS AWARDED THE WORK FOR FAILURE TO EXAMINE SITE PRIOR TO BID.
- CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS AND VISIT THE SITE AND COORDINATE PIPE ROUTING & EQUIPMENT INSTALLATION. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER WHERE DISCREPANCIES OCCUR BETWEEN CONTRACT DOCUMENTS AND EXISTING CONDITIONS.
- PIPING SHOWN DIAGRAMMATICALLY, ROUTE PIPING IN MOST DIRECT MANNER AVOIDING OBSTRUCTIONS NOT INDICATED. PROVIDE FITTINGS, OFFSETS, ETC. FOR ROUTING OF PIPING TO AVOID OBSTRUCTIONS & AS REQUIRED FOR A COMPLETE PLUMBING SYSTEM. COORDINATE EXACT LOCATION OF ALL SLAB, FLOOR, WALL AND ROOF PENETRATIONS WITH EXISTING STRUCTURAL BEAMS, JOIST AND COMPONENTS. DO NOT CUT OR MODIFY EXISTING STRUCTURAL COMPONENTS WITHOUT APPROVAL FROM STRUCTURAL ENGINEER.
- UNDER NO CIRCUMSTANCES SHALL EQUIPMENT AND RELATED SYSTEM COMPONENTS FOUND POSITIVE FOR MOLD, MILDEW, ASBESTOS, HARMFUL BACTERIA OR ANY OTHER CONTAMINATION BE PLACED INTO SERVICE. MODEL NUMBERS SCHEDULED/SPECIFIED REPRESENT THE TYPE AND QUALITY OF EQUIPMENT REQUIRED TO MEET THE DESIGN REQUIREMENTS. CONTRACTOR SHALL REVIEW SUBMITTALS AND VERIFY EQUIPMENT SIZES, QUALITY AND PERFORMANCE REQUIREMENTS MEET SPECIFICATIONS
- PRIOR TO SUBMITTING FOR APPROVAL. EQUIPMENT. THAT DIFFERS FROM BASIS OF DESIGN IS SUBJECT TO REJECTION. CONTRACTOR TO COORDINATE ALL DIFFERENCE IN EQUIPMENT WITH ELECTRICAL CONTRACTOR. SANITIZE & DISINFECT THE POTABLE WATER SYSTEM IN ACCORDANCE WITH INTERNATIONAL PLUMBING CODE (CURRENT ENFORCEABLE EDITION) & LOCAL BUILDING CODES. TEST SYSTEM FOR LEAKS.
- PROVIDE VALVES WHERE INDICATED ON DRAWINGS & AS REQUIRED FOR PROPER OPERATION OF PIPING SYSTEM. PROVIDE ACCESS PANELS AS REQUIRED FOR ACCESS TO VALVES. PROVIDE SHUT OFF VALVES AT ALL HOSE BIBBS & ON COLD & HOT WATER BRANCHES TO ISOLATE THE
- PLUMBING FIXTURES SHALL BE INSTALLED PLUMB & LEVEL TO SUPPORTING SURFACES. PROVIDE WALL MOUNTED BACKING PLATES OR CARRIER ASSEMBLIES FOR WALL HUNG FIXTURES. INSTALL FIXTURES WITH TRAPS IN A MANNER WHERE TRAPS ARE EASILY REMOVED FOR SERVICE & **CLEANING**
- PROVIDE ALL PLUMBING FIXTURES WITH ACCESSIBLE STOPS. PROVIDE ALL EQUIPMENT WITH ACCESSIBLE SHUT OFF VALVES. PROVIDE WALL MOUNTED FIXTURES (SINKS, WATER COOLERS, ETC.) WITH 2" WALL CLEAN OUT WITH CHROME PLATED COVER FOR CLEANING OUT SANITARY SEWER BRANCH WITHOUT REMOVAL OF FIXTURE. ALL WALL CLEANOUTS MAY NOT BE SHOWN FOR CLARITY OF DRAWINGS.
- MAINTAIN 6" BETWEEN FLUSH VALVE, VACUUM BREAKER, CRITICAL LEVEL TAILPIECE & OVERFLOW RIM OF WATER CLOSETS. PROVIDE PIPING SUPPORTS FROM BUILDING STRUCTURE AND/OR FRAMING IN APPROVED MANNER. PROVIDE ADDITIONAL FRAMING WHERE OVERHEAD CONSTRUCTION DOES NOT ALL FOR FASTENING OF SUPPORTS FOR PIPING & EQUIPMENT.
- INSTALL ALL SUBSURFACE PRESSURIZED PIPING SYSTEMS (DOMESTIC WATER, FIRE WATER, NATURAL GAS, ETC.) MINIMUM 36" BELOW GRADE. NOTIFY MECHANICAL ENGINEER & ARCHITECT IF EXISTING TIE-IN LOCATIONS DO NOT ALLOW. PROVIDE CODE COMPLIANT DEPTH OF COVER FOR ALL SUBSURFACE PIPING OUTSIDE OF BUILDING.
- PLUG OR CAP ALL PIPING. PIPING SHALL NOT BE LEFT OPEN ENDED (INCLUDING WHEN STORED ON SITE & DURING CONSTRUCTION).
- GRADE SENSITIVE PIPING (SANITARY SEWER, VENT, STORM DRAINAGE, ETC.) SHALL TAKE PRECEDENCE OVER ALL OTHER INSTALLATIONS. COORDINATE WITH ALL DISCIPLINES PRIOR TO & DURING CONSTRUCTION.
- COORDINATE PIPE PENETRATIONS WITH ELECTRICAL & MECHANICAL CONTRACTOR.
- PROVIDE FLASHING & COUNTER-FLASHING AS REQUIRED TO MAINTAIN THE WATERPROOFING INTEGRITY OF THE BUILDING AS REQUIRED FOR THE INSTALLATION OF PIPES, CONDUIT, EQUIPMENT, ETC.
- PROVIDE WRITTEN GUARANTEE TO REPLACE. PROMPTLY REPAIR & ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP & EQUIPMENT DEFECTS DEVELOPED WITHIN 1 YEAR FROM DATE OF ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES BY OWNER. (WHICHEVER DATE IS EARLIER). ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR REPAIR & REPLACEMENT FOR OTHER TRADES WHERE CAUSED BY DEFECTS
- PROVIDE ALL LABOR, MATERIAL & APPLIANCES AS REQUIRED FOR THE INSTALLATION & TESTING OF THE SYSTEM & INCLUDE ALL COST FOR LICENSES, PERMITS, CERTIFICATE FILING & INSPECTIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- PROVIDE CLEANOUTS WHERE SHOWN ON DRAWINGS & WHERE SPECIFIED BELOW:
 - PROVIDE 2-WAY EXTERIOR CLEANOUTS AT ALL SEWER LINES EXITING FROM UNDER THE BUILDING SLAB. PROVIDE CLEANOUT AT BASE OF RISER WITH ACCESS DOORS FOR SANITARY SEWER & STORM DRAINAGE RISER FROM SECOND FLOOR LEVEL AND ABOVE.
 - PROVIDE CLEANOUTS AT CHANGES IN DIRECTIONS GREATER THAN 45°.
 - PROVIDE CLEANOUTS EVERY 75 FEET FOR 4" & 6" PIPING.
 - PROVIDE CLEANOUTS EVERY 50 FEET FOR 3" & UNDER PIPING.
- PROVIDE 6" CLEANOUTS ON PIPING 6" & LARGER. PROVIDE CLEANOUT MATCHING PIPE SIZES FOR PIPING 4" & UNDER.
- CONTRACTOR SHALL CLEAN ALL CONCRETE, DIRT & DEBRIS ON ALL EXTERIOR VALVE COVERS, EXTERIOR CLEANOUTS & MANHOLE COVERS AT PROJECT COMPLETION & APPLY TWO-PART BLACK EPOXY COATING THAT SHALL DRY TO HARD FINISH. APPLY COATING PRIOR TO INSTALLATION OF EXTERNAL SEALS.
- PROVIDE DIELECTRIC FITTING WHERE DISSIMILAR METALS ARE CONNECTED DO NOT ROUTE PIPING CONTAINING WATER OVER ELECTRIC EQUIPMENT.
- ALL TRAPS SUBJECT TO EVAPORATION (FLOOR DRAINS, HUB DRAINS, ETC.) SHALL BE PROVIDED WITH A TRAP PRIMER.
- PROVIDE WATER HAMMER ARRESTORS IN ACCORDANCE WITH PDI WH201 & ASSE 1010 COMPLAINT.
- PROVIDE ALL POTABLE WATER SYSTEMS WITH LEAD FREE PIPING, SOLDER & FLUX.
- ALL AUTOMATIC TRAP PRIMERS SHALL BE ASSE 1018 COMPLIANT.
- WATER HEATERS SHALL HAVE THE FOLLOWING REQUIRED SAFETY DEVICES: TEMPERATURE & PRESSURE RELIEF VALVE, ASSE 1017 COMPLAINT THERMOSTATIC MIXING VALVE, INTERNAL CUTOFF DEVICE TO CUT ENERGY SOURCE TO WATER HEATER & ANSI Z21.22 COMPLIANT VACUUM BREAKER INSTALLED ON COLD WATER LINE TO WATER HEATER (ANTI-SIPHON DEVICE).
- PROVIDE MILDEW-RESISTANT WHITE SILICONE SEALANT BEAD AROUND BASE OF ALL FIXTURES. PROVIDE 1" THICK CONTINUOUS INSULATION ON ALL PIPING PENETRATING THE ROOF; INSULATION SHALL BE FROM UNDERSIDE OF ROOF DECK, ALONG ALL LATERALS & TO 6" BELOW LAST ABOVE CEILING ELBOW JOINT.
- PROVIDE HIGH & LOW BRACING FROM STRUCTURE ON PIPING PENETRATING THROUGH THE ROOF TO PREVENT MOVEMENT THAT WOULD AFFECT WATERPROOFING OF ROOF FLASHING. PROVIDE SUPPORTS FOR ROOF MOUNTED HORIZONTAL PIPING WITH SPACING & IN A MANNER ENDORSED BOTH BY PIPE MANUFACTURER. SUPPORTS SHALL BE DESIGNED FOR UNBINDING SURFACE OR WITH NON-CORRODING ROLLERS TO ALLOW FOR THERMAL
- MOVEMENT OF PIPING WITHOUT AFFECTING THE ROOFING SYSTEM. PROVIDE SLEEVES SIZED FOR PASSAGE OF PIPING, FULL INSULATION THICKNESS & INSTALLATION OF FIRE-STOP AND/OR SEALANT ON ALL DOMESTIC WATER, SANITARY VENT, FIRE WATER & NATURAL GAS PIPING PENETRATING THROUGH WALLS.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PAINTING, CUTTING & PATCHING OF EXISTING FLOORS, WALLS & PARTITIONS IN EXISTING BUILDING & FOR RESTORING AREA TO ORIGINAL CONDITION THAT IS ACCEPTABLE TO ARCHITECT.



<u> </u>					
	SANITARY VENT PIPING		90° ELBOW		HOSE BIBB
—	COLD WATER PIPING		45° ELBOW	$\longrightarrow \hspace{0.2cm} \triangleright$	DOWNSPOUT NOZZLE
	HOT WATER PIPING	$\longrightarrow \hspace*{-0.5cm} \rightarrow$	TRANSITION	—16—	BALL VALVE
—ss—	SANITARY SEWER PIPING		45° WYE	─	CHECK VALVE
—-GW	GREASE WASTE PIPING	——, <u>,, </u>	SANITARY TEE	——▼—	GATE VALVE
—SD—	STORM DRAIN PIPING		COMBINATION WYE AND 8TH	— 	DOMESTIC WATER SHUTOFF RE: DETAIL
FW	FIRE WATER PIPING		COUPLING	<u>\</u>	SOLENOID VALVE
NG	NATURAL GAS PIPING		DOUBLE SANITARY VENT	—	GASCOCK
—VAC—	VACUUM PIPING		DOUBLE SANITARY TEE	 ⊚	INLINE RECIRCULATION PUMP
0	OXYGEN PIPING		DOUBLE SANITARY LONG SWEEP TEE		
—_N—_	NITROGEN PIPING	1	DOLIDI E WAYE		
——A——	AIR PIPING		DOUBLE WYE		
NO	NITROUS OXIDE PIPING		CAP		

P001	PLUMBING COVER SHEET	
P101	PLUMBING PLAN - SITE	
P111	PLUMBING PLAN - SS - OFFICE BLDG #1 & 2	
P112	PLUMBING PLAN - SS - RESEARCH BLDG #1 & 2	
P121	PLUMBING PLAN - DW - OFFICE BLDG #1 & 2	
P122	PLUMBING PLAN - DW - RESEARCH BLDG #1 & 2	
P201	PLUMBING DETAILS	
P301	PLUMBING SCHEDULES	
P401	PLUMBING RISER DIAGRAMS	

SCHEDULE - PIPE & INSULATION											
LOCATION	SYSTEM	ABBREVIATION	MATERIAL	SIZE	TYPE	THICKNESS					
ALL	SANITARY SEWER	SS	SOLID WALL PVC	ALL	-	-					
ALL	SANITARY VENT	SV	SOLID WALL PVC	ALL	-	-					
ABOVE GROUND	DOMESTIC COLD WATER, HOT WATER / RETURN	CW, HW, HWR	TYPE L HARD COPPER	1/2" - 3/4"	MINERAL FIBER, PREFORMED	1/2"					
ABOVE GROUND	DOMESTIC COLD WATER, HOT WATER / RETURN	CW, HW, HWR	TYPE L HARD COPPER	1"+	MINERAL FIBER, PREFORMED	1"					
UNDERGROUND	TRAP PRIMER	-	TYPE K SOFT COPPER	1/2"	-	-					

NOTES:

- SOLID WALL PVC:
- ASTM D 2665 AND ASTM D1785 COMPLIANT DRAIN, WASTE AND VENT PIPE
- SOLVENT-CEMENT JOINTS, COMPLY WITH ASTM F402 FOR SAFE HANDLING PRACTICE OF CLEANERS, PRIMERS AND SOLVENT CEMENTS. JOIN ACCORDING TO ASTM D 2855 AND ASTM D 2665 APPENDIXES.
- INSTALL ABOVE GROUND ACCORDING TO ASTM D 2665, INSTALL UNDER GROUND ACCORDING TO ASTM D 2321
- A. ASTM B 88, CAST OR WROUGHT COPPER, SOLDER-JOINT FITTINGS AND BRAZED OR SOLDERED JOINTS
- A. ASTM B 88, WROUGHT COPPER, SINGLE PIECE TUBING WITHOUT JOINTS UNDERSLAB.
- MINERAL-FIBER, PREFORMED PIPE INSULATION:
- MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COPLAY WITH ASTM C 547, TYPE I, GRADE A, WITH FACTORY APPLIED ALL SERVICE JACKET.
- FLOOR DRAINS, TRAPS AND SANITARY DRAIN PIPING WITHING 10' OF DRAIN RECEIVING CONDENSATE SHALL HAVE 1" THICK MINERAL-FIBER, PREFORMED PIPE INSULATION.

ABBREVIATION LEGEND

AIR CONDITIONING ACCU AIR COOLED CONDENSING UNIT AFF ABOVE FINISHED FLOOR AFS AIR FLOW STATION AIR HANDLING UNIT AMB AMRIENT AIR SEPARATOR AIR VFNT **BUILDING AUTOMATION SYSTEM** BACKDRAFT DAMPER BACKFLOW PREVENTER BOD BOTTOM OF DUCT BTUH BRITISH THERMAL UNIT PER HOUR COOLING COIL CFH CUBIC FEET PER HOUR CFM CUBIC FEET PER MINUTE CHILLER CHWCF CHILLED WATER CHEMICAL FEED CHP CHILLED WATER PUMP CHR CHILLED WATER RETURN CHS CHILLED WATER SUPPLY COMP COMPRESSOR CIRCULATING PUMP CONDENSING UNIT COOLING TOWER CONTROL VALVE COLD WATER

CWCF CONDENSER WATER CHEMICAL FEED CWR CONDENSER WATER RETURN CONDENSER WATER PUMP CONDENSER WATER SUPPLY DRY BULB TEMP (DEG F) DDC DIRECT DIGITAL CONTROL DOWN DIFFERENTIAL PRESSURE DIFFERENTIAL PRESSURE SWITCH

DWG DRAWING DX DIRECT EXPANSION EXHAUST AIR ELECTRIC DUCT HEATER EDH ENERGY EFFICIENCY RATIO EER EXHAUST FAN ELEVATION ELEC ELECTRICAL ENTERING

ELECTRIC CONDENSING UNIT ELECTRIC REFRIGERANT UNIT EXTERNAL STATIC PRESSURE EXPANSION TANK ELECTRIC UNIT HEATER EVAP EVAPORATOR EX EXHAUST

EXT EXTERNAL FA FRESH AIR FC/FCU FAN COIL UNIT FIRE DAMPER FEET

FULL LOAD AMPS FPM FEET PER MINUTE FACE VELOCITY GALVANIZED

GALLONS PER MINUTE GALLONS PER HOUR GAS UNIT HEATER HEATING COIL HORSEPOWER HOUR

HEATING WATER SUPPLY HEATING WATER RETURN INSIDE DIAMETER INCHES KW KILOWATTS

NIC NOT IN CONTRACT

OUTSIDE AIR UNITS OS&Y OUTSIDE STEM AND YOKE OZ OUNCES (PRESSURE) PRESSURE DROP

PSI POUNDS PER SQUARE INCH RETURN AIR

RPM REVOLUTIONS PER MINUTE

SUPPLY AIR FAN STATIC PRESSURE SPEC SPECIFICATIONS

TSP TOTAL STATIC PRESSURE

UNDERGROUND UNDERWRITERS LISTED

VARIABLE AIR VOLUME

VFD VARIABLE FREQUENCY DRIVE

REFERENCE RELATIVE HUMIDITY

RHC REHEAT COIL RND ROUND

RTU ROOF TOP UNIT SUPPLY AIR SMOKE DAMPER

TEMP TEMPERATURE TOD TOP OF DUCT

WB WET BULB (DEG F)

TYP TYPICAL

W / WITH W / O WITHOUT

PTAC PACKAGED TERMINAL AIR CONDITIONER

SEER SEASONAL ENERGY EFFICIENCY RATIO

LVG MIXED AIR MAXIMUM MOTORIZED DAMPER

MECH MECHANICAL MFR MANUFACTURER NG NATURAL GAS

REF

MIN MINIMUM MVD MANUAL VOLUME DAMPER NC NORMALLY CLOSED NFPA NATIONAL FIRE PROTECTION ASSOC.

NO NORMALLY OPEN NOM NOMINAL ALL EXPOSED SANITARY DRAINS, DOMESTIC COLD & HOT WATER AND STOPS FOR ADA PLUMBING FIXTURES SHALL HAVE PROTECTIVE SHIELDING PIPE COVERS. NTS NOT TO SCALE OUTSIDE AIR OUTSIDE AIR FAN

GRI SIT ER ER S

HOLLY & SMITH

ARCHITECTS

HAMMOND

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LAFAYETTE

T 337.279.2010

www.hollyandsmith.com

NO. DESCRIPTION DATE

PROJECT NO.

07/24/2025 PROJECT MANAGER

25022

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DOCUMENTS

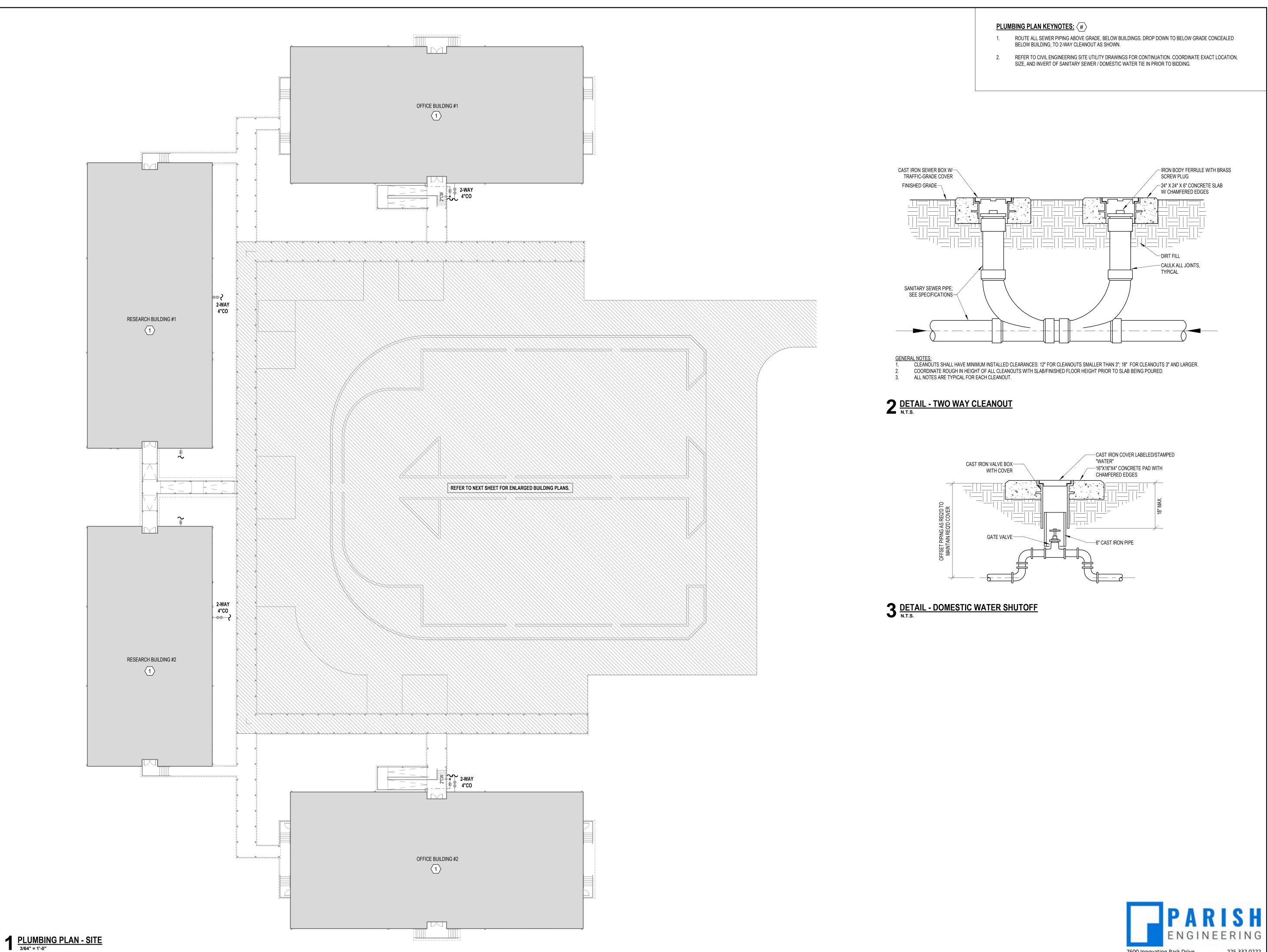
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PLUMBING COVER SHEET



0" ½" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.



HOLLY & SMITH ARCHITECTS

AGRICI

SOUTHERN

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NEW ORLEANS T 504.585.1315 LAFAYETTE T 337.279.2010

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07/24/2025

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PROJECT MANAGER GLP **QUALITY CONTROL** GTM

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PROJECT NO.

NO. DESCRIPTION DATE

PLUMBING PLAN - SITE

7600 Innovation Park Drive 225.332.0222 Baton Rouge, LA 70820 parisheng.com | #28-082

225.332.0222



-4" PLUG FOR CLEANOUT-

PLUMBING PLAN KEYNOTES: (#)

- REFER TO CIVIL ENGINEERING SITE UTILITY DRAWINGS FOR CONTINUATION. COORDINATE EXACT LOCATION, SIZE, AND INVERT OF SANITARY SEWER / DOMESTIC WATER TIE IN PRIOR TO BIDDING.
- ROUTE DISHWASHER DRAIN LINE INTO SINK DRAIN LINE. PROVIDE DECK MOUNTED AIR GAP OR ROUTE WASTE LINE TO RISE AND BE SECURELY FASTENED TO UNDERSIDE OF SINK RIM/COUNTER.

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- T 504.585.1315 LAFAYETTE
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NO. DESCRIPTION DATE

PROJECT NO. 25022 07/24/2025

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PROJECT MANAGER GLP

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PLUMBING PLAN - SS -OFFICE BLDG #1 & 2 7600 Innovation Park Drive 225.332.0222 Baton Rouge, LA 70820 parisheng.com | #28-082

PLUG FOR CLEANOUT-S-2 PLUG FOR CLEANOUT— S-2 S-2 PLUG FOR CLEANOUT— WC-2 \(\frac{2}{2} \)
UR-1 UR-1 \(\frac{1}{2} \)
UR-1 \(\frac{1}{ WC-2 WC-2 ₩C-2 ₩C-2 PLUG FOR CLEANOUT— -PLUG FOR CLEANOUT CLEANOUT

CLEANOUT

PLUMBING PLAN KEYNOTES: (#)

- REFER TO CIVIL ENGINEERING SITE UTILITY DRAWINGS FOR CONTINUATION. COORDINATE EXACT LOCATION, SIZE, AND INVERT OF SANITARY SEWER / DOMESTIC WATER TIE IN PRIOR TO BIDDING.
- MINIMUM ONE (1) URINAL SHALL BE MOUNTED AT ADA HEIGHT; COORDINATE WITH ARCHITECT.
- WASHING MACHINE WALL BOX.

PLUG FOR CLEANOUT

L-1 L-1 L-1

PLUG FOR CLEANOUT

L-1 L-1 L-1

PLUG FOR CLEANOUT—

PLUMBING PLAN - SANITARY SEWER - RESEARCH BUILDING #2

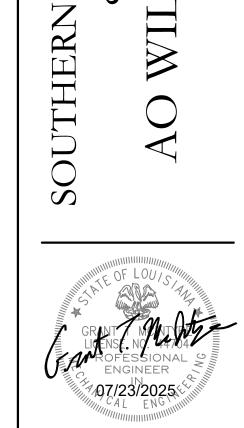
PLUG FOR CLEANOUT-

COORDINATE EXACT LOCATION AND REQUIREMENTS FOR OWNER PROVIDED EQUIPMENT WITH THE OWNER PRIOR TO CONSTRUCTION.

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PLUMBING PLAN - SANITARY SEWER - RESEARCH BUILDING #1



PLUMBING PLAN KEYNOTES: (#)

- ROUTE MAIN WATER LINE BELOW BUILDING AND STUB UP IN JANITOR ROOM AS SHOWN. PROVIDE MAIN SHUTOFF VALVE ON VERTICAL PIPING.
- REFER TO CIVIL ENGINEERING SITE UTILITY DRAWINGS FOR CONTINUATION. COORDINATE EXACT LOCATION, SIZE, AND INVERT OF SANITARY SEWER / DOMESTIC WATER TIE IN PRIOR TO BIDDING.
- UNDERGROUND WATER SHUT OFF VALVE IN CAST IRON VALVE BOX MARKED "WATER".
- 1/2"CW LINE TO REFRIGERATOR VALVE BOX. COORDINATE EXACT LOCATION OF APPLIANCE AND HEIGHT OF VALVE BOX WITH THE GENERAL CONTRACTOR AND OWNER PRIOR TO ROUGH-IN.
- ELECTRIC TANK TYPE WATER HEATER ON WALL MOUNTED PLATFORM ABOVE MOP SINK. ROUTE T&P RELIEF AND AUXILIARY DRAIN PAN DRAIN LINE TO MOP SINK AND TURN DOWN WITH AIR GAP. PROVIDE SHUT OFF VALVES ON ALL WATER LINES TO AND FROM WATER HEATER. PROVIDE THERMOSTATIC MIXING VALVE, THERMAL EXPANSION TANK, AND CIRCULATING PUMP AS SHOWN. PROVIDE UNISTRUT FRAMING SECURED TO STRUCTURAL WALL FRAMING AS REQUIRED TO PROPERLY SUPPORT MIXING VALVE, EXPANSION TANK, CIRCULATING PUMP, AND ASSOCIATED PIPING. RE: SCHEDULES & DETAILS.
- 1/2" GRAVITY TRAP PRIMER LINE FROM LAVATORY. ROUTE 1/2" LINE CONCEALED IN WALL AND BELOW GRADE TO FLOOR DRAIN. RE: DETAIL.
- PROVIDE WATER LINE TO DISHWASHER FROM SINK. WATER SUPPLY SHALL BE PROTECTED AGAINST BACKFLOW BY AN AIR GAP INTEGRAL TO THE MACHINE OR ASSE 1022 COMPLIANT BACKFLOW PREVENTER. AIR GAPS SHALL COMPLY WITH ASME A112.1.2 OR A112.13. ROUTE DISHWASHER DRAIN LINE INTO SINK DRAIN LINE. PROVIDE DECK MOUNTED AIR GAP OR ROUTE WASTE LINE TO RISE AND BE SECURELY FASTENED TO UNDERSIDE OF SINK RIM/COUNTER.

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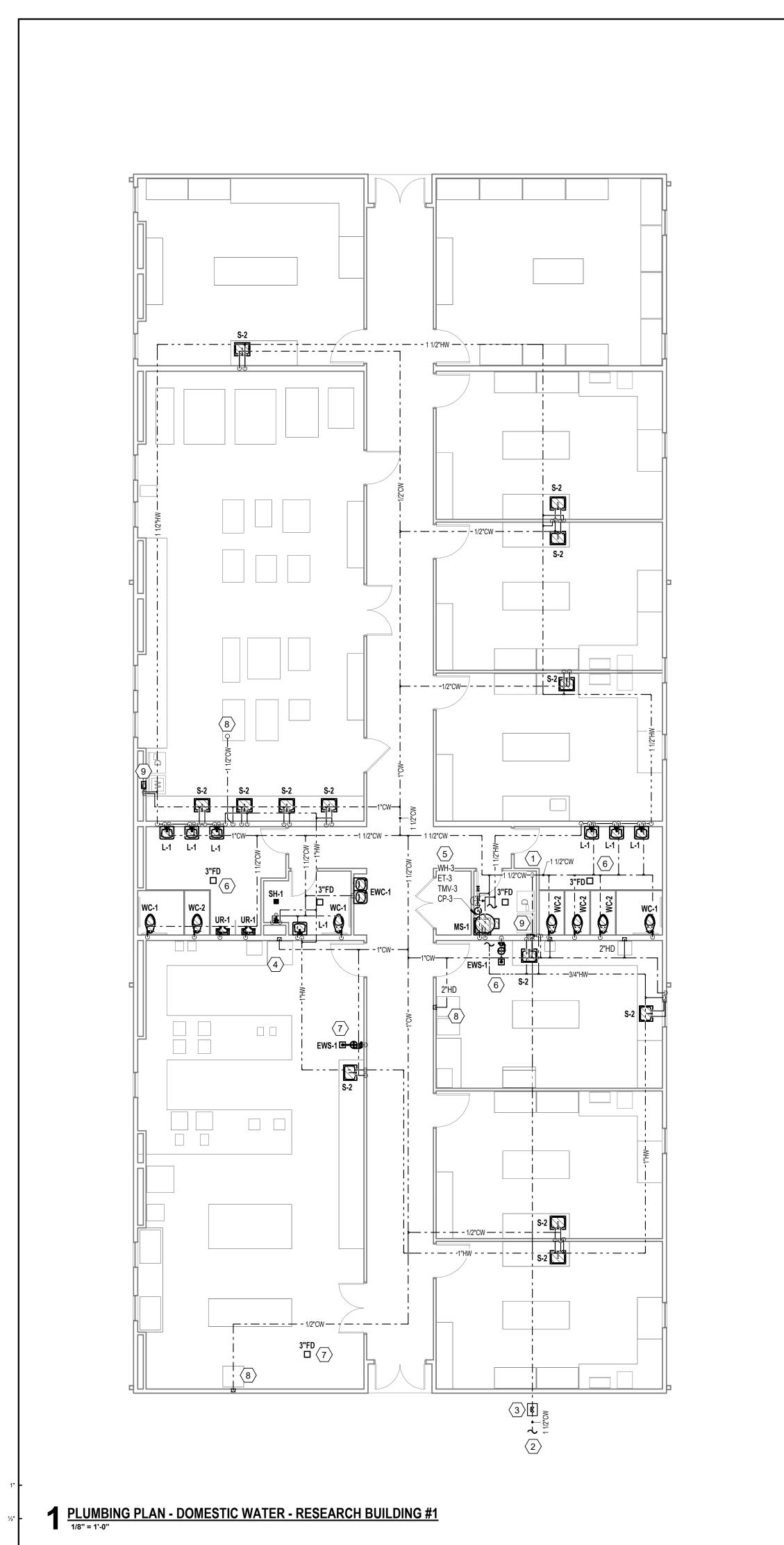
25022 PROJECT NO. 07/24/2025 **PROJECT MANAGER** GLP **QUALITY CONTROL** GTM

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PLUMBING PLAN - DW -OFFICE BLDG #1 & 2



PLUMBING PLAN KEYNOTES: (#)

- - - - - - - - - - - - - - 1 1/2"CW - - - - - 1 1/2"CW - - - -

2 PLUMBING PLAN - DOMESTIC WATER - RESEARCH BUILDING #2

- ROUTE MAIN WATER LINE BELOW BUILDING AND STUB UP IN JANITOR ROOM AS SHOWN. PROVIDE MAIN SHUTOFF VALVE ON VERTICAL PIPING.
- REFER TO CIVIL ENGINEERING SITE UTILITY DRAWINGS FOR CONTINUATION. COORDINATE EXACT LOCATION, SIZE, AND INVERT OF SANITARY SEWER / DOMESTIC WATER TIE IN PRIOR TO BIDDING.
- UNDERGROUND WATER SHUT OFF VALVE IN CAST IRON VALVE BOX MARKED "WATER".
- 1/2"CW LINE TO ICE MAKER VALVE BOX. COORDINATE EXACT LOCATION OF APPLIANCE AND HEIGHT OF VALVE BOX WITH THE GENERAL CONTRACTOR AND OWNER PRIOR TO ROUGH-IN.
- ELECTRIC TANK TYPE WATER HEATER ON WALL MOUNTED PLATFORM ABOVE MOP SINK. ROUTE T&P RELIEF AND AUXILIARY DRAIN PAN DRAIN LINE TO MOP SINK AND TURN DOWN WITH AIR GAP. PROVIDE SHUT OFF VALVES ON ALL WATER LINES TO AND FROM WATER HEATER. PROVIDE THERMOSTATIC MIXING VALVE, THERMAL EXPANSION TANK, AND CIRCULATING PUMP AS SHOWN. PROVIDE UNISTRUT FRAMING SECURED TO STRUCTURAL WALL FRAMING AS REQUIRED TO PROPERLY SUPPORT MIXING VALVE, EXPANSION TANK, CIRCULATING PUMP, AND ASSOCIATED PIPING. RE: SCHEDULES & DETAILS.
- 1/2" GRAVITY TRAP PRIMER LINE FROM LAVATORY. ROUTE 1/2" LINE CONCEALED IN WALL AND BELOW GRADE TO FLOOR DRAIN. TYPICAL ALL FLOOR DRAINS UNLESS NOTED OTHERWISE. RE: DETAIL.
- 1/2" MECHANICAL TRAP PRIMER LINE FROM MECHANICAL TRAP PRIMER (ABOVE CEILING, PROVIDED BY CONTRACTOR). ROUTE 1/2" LINE CONCEALED IN WALL AND BELOW GRADE TO FLOOR DRAIN. RE: DETAIL.
- COORDINATE EXACT LOCATION AND REQUIREMENTS FOR OWNER PROVIDED EQUIPMENT WITH THE OWNER PRIOR TO CONSTRUCTION. PROVIDE ADDITIONAL FITTINGS, ACCESSORIES, ETC. AS REQUIRED PER THE APPROVED EQUIPMENT BEING PROVIDED TO PROJECT (BACKFLOW PROTECTION, ETC.).
- 1/2"CW & 1/2"HW LINE TO WASHING MACHINE VALVE BOX. COORDINATE EXACT LOCATION OF APPLIANCE AND HEIGHT OF VALVE BOX WITH THE GENERAL CONTRACTOR AND OWNER PRIOR TO ROUGH-IN.

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7 DETAIL - THERMOSTATIC MIXING VALVE @ LAV

SECURED NICKEL BRONZE

COVER WITH CAST IN "CO"

THREADED BRONZE PLUG-

SANITARY SEWER PIPE; SEE SPECIFICATIONS-

ADJUSTABLE CAST IRON BODY AND TOP-

DETAIL - INTERIOR CLEANOUT N.T.S.

NICKEL BRONZE STRAINER— CAST IRON BODY WITH-

ADJUSTABLE STRAINER HEAD

TRAP PRIMER CONNECTION-

SEAL ALL JOINTS (TYP.); SEE-

4 DETAIL - FLOOR DRAIN
N.T.S.

NEOPRENE GASKET CONNECTION

SPECIFICATIONS

DEEP SEAL "P" TRAP-

NEOPRENE GASKET CONNECTION—

-FINISHED FLOOR

CLEANOUTS SHALL HAVE MINIMUM INSTALLED CLEARANCES: 12" FOR CLEANOUTS SMALLER THAN 3"; 18" FOR CLEANOUTS 3" AND LARGER. CLEANOUTS SHALL BE LOCATED AT MAXIMUM INTERVALS OF: 50'-0" FOR PIPING 3" AND SMALLER; 80'-0" FOR PIPING 4" THROUGH 6".

COORDINATE ROUGH IN HEIGHT OF ALL CLEANOUTS WITH SLAB/FINISHED FLOOR HEIGHT PRIOR TO SLAB BEING POURED.

REVERSIBLE FLASHING

—SUPPORT AT THIS POINT

STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. MIXING VALVE MUST BE CERTIFIED TO A.S.S.E. 1070 STANDARD.

TO WATER

HEATER

TMV (ASSE 1070) -----

CONTRACTOR SHALL PROVIDE & INSTALL MIFAB MI-THERM OR LEONARD 170-LF THERMOSTATIC MIXING VALVE IN

ALL FLOOR DRAINS SHALL BE INSTALLED WITH A 1/2" TRAP PRIMER.

LAVATORY / SINK

COORDINATE ROUGH IN HEIGHT OF ALL FLOOR DRAINS WITH SLAB/FINISHED FLOOR HEIGHT PRIOR TO SLAB BEING

8 DETAIL - THERMOSTATIC MIXING VALVE N.T.S.







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PLUMBING DETAILS

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MIXING VALVE; RE: THERMOSTATIC MIXING VALVE DETAIL. -RE-CIRCULATING 3/4" VACUUM BREAKER; -PUMP WITH WATTS MODEL N-36 OR AQUASTAT APPROVED EQUAL -PROVIDE ASME RATED T&P RELIEF VALVE TO BE PIPED FULL SIZE TO EXTERIOR OF BUILDING AND TURN —CHECK VALVE (TYP.) BALL VALVE (TYP.)— DOWN AT 12" ABOVE FINISHED GRADE 3/4" BY-PASS LINE ELECTRIC WATER HEATER —PLATFORM TO BE CONSTRUCTED OF 3/4" TREATED UNION (TYP.)-PLYWOOD AND SHALL EXTEND A MINIMUM OF 6" ALL AROUND WATER HEATER. PLATFORM SHALL BE SECURED AND MOUNTED ON WALL AT MAXIMUM HEIGHT OF 10'-0" 4" DEEP EMERGENCY-BETWEEN THE TOP OF PLATFORM AND FINISHED FLOOR —BALL VALVE (TYP.) DRAIN PAN TO BE PIPED -3/4" TREATED PLYWOOD TOP TO BE TO NEAREST DRAIN SECURED TO ANGLE IRON FRAME WITH CADMIUM PLATED SCREWS 2"X2"X1/4" ANGLE IRON BRACING-TO BE WELDED AT ALL JOINTS 2"X2"X1/4" ANGLE IRON TO— BE WELDED AT ALL JOINTS -2"X2"X1/4" ANGLE IRON AROUND PERIMETER OF PLATFORM TO AND SECURED TO WALL BE WELDED AT ALL JOINTS TOP VIEW OF PLATFORM

6 DETAIL - MECHANICAL TRAP PRIMER
N.T.S.

CW SUPPLY—

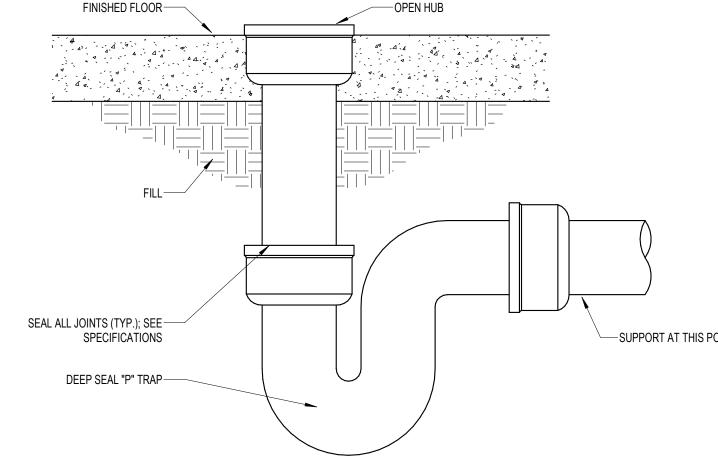
MECHANICAL TRAP PRIMER VALVE TO BE ONE OF THE FOLLOWING MODELS: PPP INC. MODEL PR-500 WITH PPP INC. MODEL AG-500 AIR GAP FITTING AND PPP INC. MODEL DU-4 DISTRIBUTION UNIT OR MIFAB MODEL M-500 WITH MIFAB MODEL MI-GAP AIR GAP FITTING AND MIFAB MODEL MI-DU DISTRIBUTION UNIT. THE DISTRIBUTION UNIT TO BE PROVIDED AS REQUIRED TO SERVE MULTIPLE DRAINS. (1) MECHANICAL TRAP PRIMER CAN SERVE UP TO (4) INDIVIDUAL DRAINS. IF MECHANICAL TRAP PRIMER IS INSTALLED IN INACCESSIBLE AREA, SUCH AS WITHIN WALL CAVITY OR ABOVE GYPSUM BOARD CEILING, AN ACCESS PANEL OR RECESSED WALL BOX SHALL BE INSTALLED TO ALLOW FOR SERVICE TO MECHANICAL TRAP PRIMER VALVE. MECHANICAL TRAP PRIMER SHALL BE INSTALLED A MINIMUM OF 12" ABOVE FINISHED FLOOR. ALL COPPER PIPING BELOW SLAB SHALL BE SOFT DRAWN WITH NO JOINTS. ALL COPPER PIPING ABOVE SLAB SHALL BE HARD DRAWN COPPER.

PIPE ABOVE FLOOR INSULATION AS TO PREVENT FREEZING.

PRIMER IS INSTALLED IN UNHEATED CRAWL SPACE, ROUTE

-HW SUPPLY TO THERMOSTATIC

-MECHANICAL TRAP PRIMER ASSEMBLY; RE: GENERAL NOTES 1, 2, & 3 BELOW. -1/2" COPPER TRAP PRIMER PIPE DN. WALL -FLOOR DRAIN -FINISHED FLOOR SLAB-1/2" COPPER TRAP PRIMER PIPE BELOW SLAB. IF TRAP-



3 DETAIL - HUB DRAIN N.T.S.

—SUPPORT AT THIS POINT

~24" X 24" X 6" CONCRETE SLAB W/ CHAMFERED EDGES —CAULK ALL JOINTS, TYPICAL SANITARY SEWER PIPE; SEE SPECIFICATIONS -

- IRON BODY FERRULE WITH BRASS

SCREW PLUG

CLEANOUTS SHALL HAVE MINIMUM INSTALLED CLEARANCES: 12" FOR CLEANOUTS SMALLER THAN 3"; 18" FOR CLEANOUTS 3" AND LARGER. COORDINATE ROUGH IN HEIGHT OF ALL CLEANOUTS WITH SLAB/FINISHED FLOOR HEIGHT PRIOR TO SLAB BEING POURED. ALL NOTES ARE TYPICAL FOR EACH CLEANOUT.

CAST IRON SEWER BOX W/-

TRAFFIC-GRADE COVER

2 DETAIL - EXTERIOR CLEANOUT N.T.S.

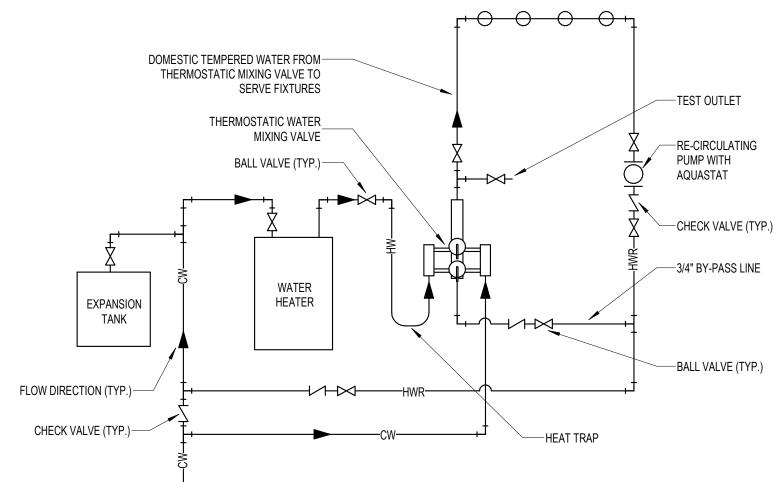
WALL-

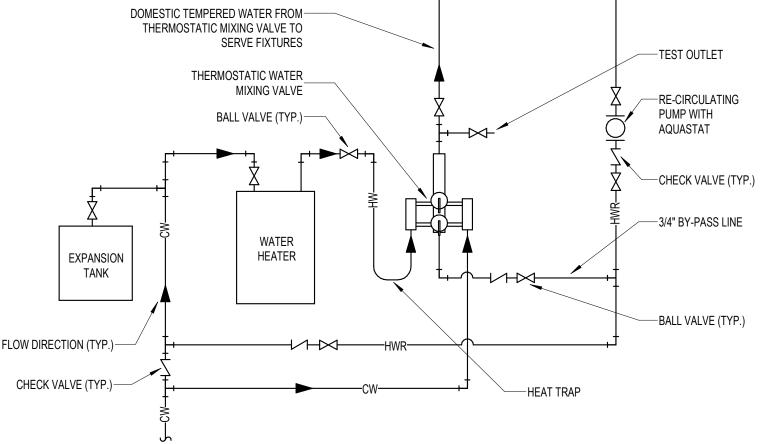
—FLOOR DRAIN —1/2" COPPER TRAP PRIMER PIPE SLAB-—FINISHED FLOOR 1/2" COPPER TRAP PRIMER PIPE BELOW SLAB. IF TRAP—

PRIMER IS INSTALLED IN UNHEATED CRAWL SPACE, ROUTE PIPE ABOVE FLOOR INSULATION AS TO PREVENT FREEZING.

1. ALL COPPER PIPING BELOW SLAB SHALL BE SOFT DRAWN WITH NO JOINTS. ALL COPPER PIPING ABOVE SLAB SHALL BE HARD DRAWN COPPER.

5 DETAIL - GRAVITY TRAP PRIMER N.T.S.





ALL CHECK VALVES MOUNTED IN THE VERTICAL POSITION SHALL BE SPRING LOADED. 2. ALL BALL VALVES SHALL BE FULL PORT LINE SIZE.

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0" ½" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

TO MAIN DOMESTIC

CW LINE

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| SCHE | DULE - PLUMBING FIXTURES | | | | | | | | |
|-------|--|---|--------|--------|-----------|----------|--|---|--|
| | | | | CONNEC | TION SIZE | . | ACCESSORIES / TRIM | | |
| MARK | DESCRIPTION | MANUFACTURER / MODEL | WASTE | VENT | CW | HW | FAUCET | FLUSH VALVE | MISCELLANEOUS ITEMS |
| | | | | | | | | | |
| WC-1 | FLOOR MOUNTED WHITE VITREOUS WATER CLOSET W/ TOP SPUD AND 1.6 GPF FLUSH VALVE; ADA COMPLIANT | AMERICAN STANDARD 2857.016 OR EQUAL | 4" | 3" | 1" | | | AMERICAN STANDARD 6047.161;
SLOAN ROYAL 111 | SEAT: AMERICAN STANDARD 5901.100; CHURCH 9500 SSCT |
| WC-2 | FLOOR MOUNTED WHITE VITREOUS WATER CLOSET W/ TOP SPUD AND 1.6 GPF FLUSH VALVE | AMERICAN STANDARD 2857.016 OR EQUAL | 4" | 3" | 1" | | | AMERICAN STANDARD 6047.161;
SLOAN ROYAL 111 | SEAT: AMERICAN STANDARD 5901.100; CHURCH 9500 SSCT |
| UR-1 | WALL MOUNTED WHITE VITREOUS CHINA URINAL WITH WASHOUT FLUSH ACTION (1.0 GPF) AND EXTENDED SIDES FOR PRIVACY; 3/4" TOP SPUD | AMERICAN STANDARD 6501.010; KOHLER K-4904-ET;
ZURN Z5750; MANSFIELD 410HE | 2" | 2" | 3/4" | | | ZURN Z6003AV-WS1; SLOAN ROYAL
186-1.0; DELANY S451-1 | |
| L-1 | 20" X 18" WALL HUNG WHITE VITREOUS CHINA LAVATORY WITH OVERFLOW, 0.35 GPM FAUCET, AND 4" CENTER FAUCET HOLES | AMERICAN STANDARD 0124.131; KOHLER K-1729; ZURN
Z5344 | 2" | 2" | 1/2" | 1/2" | AMERICAN STANDARD 7385.003; T&S BRASS B-2711;
ZURN Z81000-G; ELKAY LK422L4; DELTA 523LF-HDF | | 2' CAST BRASS "P" TRAP WITH CLEANOUT; GRID STRAINER DRAIN |
| S-1 | 31" X 22" SELF RIMMING TOP MOUNT SINGLE BOWL SINK OF 18 GA
STAINLESS STEEL WITH (3) FAUCET HOLES ON 4" CENTERS AND DECK
MOUNTED GOOSENECK FAUCET WITH 4" WRISTBLADES | ELKAY LRAD312255 OR EQUAL | 2" | 2" | 1/2" | 1/2" | CHICAGO 2300-8CP; T&S BRASS B-2731; ZURN Z82300-CP8; ELKAY LK1000CR; DELTA 100LF-HDF | | BY TEMPORARY BUILDING SUPPLIER |
| S-2 | MOLDED EPOXY SINK INTEGRAL TO COUNTER; RE: ARCHITECTURAL | INTEGRAL TO COUNTER; RE: ARCHITECTURAL | 2" | 2" | 1/2" | 1/2" | ELKAY LK500AT08T4 OR EQUAL | | DRAIN: PER ARCHITECT; FIXTURE TO BE SUPPLIED WITH 1-1/2" CAST BRASS "P" TRAP WITH CLEANOUT; 3/8" ANGLE STOP SUPPLIES WITH LOOSE KEY STOP |
| MS-1 | 24"X36"X12" TERRAZZO MOP SINK WITH 6" DROP FRONT AND STAINLESS
STEEL CAP | FIAT TSB3000; ACORN TDF-24; STERN WILLIAMS
HL-1810 | 3" | 2" | 3/4" | 3/4" | JUST JVB-1200; SPEAKMAN SC-5812; T&S BRASS
B-0665-BSTP | | STAINLESS STEEL MOP HANGER; STAINLESS STEEL BACKSPLASH; 36" HOSE WITH WALL HOOK |
| SH-1 | 60" X 36" X 78" ADA COMPLIANT SHOWER WITH 3/4" THRESHOLD | AQUA BATH C6536BF-FUS 3/4; AQUATIC 6036BFSC;
HAMILTON A-6436-IBS; AQUARIUS S-6436-BF | 2" | 2" | 1/2" | 1/2" | SYMMONS BP-56-500-B30-V-X; DELTA T13H332 W/
R10700-UNWS ROUGH-IN; ZURN
Z7101-SS-LH-DV2P-HW | | |
| EWS-1 | COMBINATION DRENCH SHOWER AND EYE/FACE WASH UNIT, PEDESTAL MOUNTED | GUARDIAN G1950-SSH; BRADLEY S19-310TT; ACORN
S2340 | 1 1/4" | | 1/2" | 1/2" | | | GUARDIAN G3600; BRADLEY S19-2000; ACORN TMV33; LAWLER 911E/F
THERMOSTATIC MIXING VALVE |
| EWC-1 | BARRIER FREE ACCESS WALL MOUNTED ADA COMPLIANT DOUBLE STATION WATER COOLER | ELKAY EZSTL8C; OASIS PF8ACSL; HALSEY TAYLOR
HAC8FSBL-Q ADA; ACORN A112108S-UBL | 2" | 2" | 1/2" | | | | 1-1/4" CAST BRASS "P" TRAP WITH CLEANOUT; 3/8" ANGLE STOP SUPPLIES WITH LOOSE KEY STOP |
| 3"FD | FLOOR DRAIN WITH 6" SQUARE ADJUSTABLE NICKEL BRONZE STRAINER
AND CAST IRON BODY | JAY R SMITH 2005; WADE 1100G; ZURN Z415S; JOSAM 3000-S; MIFAB F1100-S | | | | | | | |
| 4"CO | SANITARY FLOOR CLEANOUT | ZURN ZN1400; WADE 6000-STD; JAY R SMITH 4031
SERIES; JOSAM 55000; MIFAB C1220 | | | | | | | |
| WB-1 | WASHING MACHINE VALVE BOX | OATEY QUADTRO OR EQUAL | 2" | 2" | 1/2" | 1/2" | | | CONTRACTOR TO PROVIDE SAN, CW, AND HW IN WALL MOUNTED WASHING MACHINE BOX |

- PROVIDE STAINLESS STEEL HARDWARE (BOLTS. ETC.) FOR ATTACHING ALL PLUMBING FIXTURES.
- PROVIDE 3/8" ANGLE STOP SUPPLIES WITH LOOSE KEY STOP FOR ALL WATER CLOSETS, SINKS, LAVATORIES, WATER COOLERS, ETC. PROVIDE CARRIER PER THE MANUFACTURER'S RECOMMENDATIONS/REQUIREMENTS FOR ALL WALL HUNG FIXTURES.
- CLEANOUTS SHALL BE THE SAME SIZE AS THE SANITARY SEWER PIPE.
- PROVIDE WATER TEMPERATURE LIMITING DEVICE CONFORMING TO ASSE 1070 TO LIMIT THE TEMPERED WATER TO A MAXIMUM OF 110°F FOR ALL LAVATORIES.
- ALL LAVATORIES SHALL BE ADA COMPLIANT. PROVIDE 29" CLEARANCE FROM THE FLOOR TO THE BOTTOM OF THE LAVATORY APRON. EXPOSED DRAIN AND WATER PIPING SHALL NOT INTERFERE WITH REQUIRED KNEE CLEARANCE. PROVIDE TWO-PIECE, SNAP-ON, PVC INSULATED COVER; TRUEBRO #HANDI LAV-GUARD OR APPROVED EQUAL.
- PROVIDE ADA SHOWER TEMPERATURE AND VOLUME VALVE WITH SIDE BY SIDE INSTALLATION AT ADA COMPLAINT HEIGHT/LOCATION.
 - COORDINATE EXACT SHOWER AND SHOWER ACCESSORIES TO BE SUPPLIED TO PROJECT WITH GENERAL CONTRACTOR AND ARCHITECTURAL DRAWINGS FOR FLOOR/FOUNDATION AT SHOWER AND WALL/DOOR FRAMING PRIOR TO ORDERING EQUIPMENT AND PRIOR TO INSTALLATION OF STUDS, FRAMING, DOORS, ETC.
- REVIEW SHOWER SUBMITTAL DRAWINGS FOR ROUGH IN DIMENSIONS AND COORDINATE AND VERIFY INSTALLATION OF SHOWER DIMENSIONS WITH FRAMING/STUD LOCATIONS AND SIZE.
- COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECT FOR TRANSFER SHOWER INTENDED/PREFERRED INSTALLATION WITH BATHROOM FLOOR: SHOWERS WITH FLAT THRESHOLD, BUILD UP OR RECESS BATHROOM FLOOR 3/4" LESS THE THICKNESS OF THE FINISHED FLOOR.
- SHOWERS WITH BEVEL THRESHOLD, BUILD UP OR RECESS BATHROOM FLOOR 3/4" LESS THE THICKNESS OF THE FINISHED FLOOR AND ENSURE FINISHED FLOOR MEETS BASE OF BEVEL AT THRESHOLD.
- INSTALL SHOWER IN BATHROOM AREA PRIOR TO COMPLETION OF DOOR/WALL FRAMING AND STUD INSTALLATION. FAILURE TO COORDINATE PRIOR TO PLUMBING ROUGH IN AND FRAMING/STUD INSTALLATION.
- VERIFY ALCOBE FOR TRANSFER SHOWER IS OF PROPER SIZE, PLUMB AND SQUARE, AND LEVEL. WHERE FLOOR IS NOT COMPLETELY LEVEL, PROVIDE FOUNDATION MATERIAL (NON-SHRINK GROUTE) UNDER BOTTOM OF UNIT FOR SOLIDYING WHEEL CHAIR SUPPORT. WATER TEST SHOWER FOR VERIFICATION OF PROPER INSTALLATION. PROVIDE REPORT ON WATER TESTING TO MECHANICAL ENGINEER FOR REVIEW/APPROVAL.

| | | GPH AT | | ELEN | IENT(S) | ELECTRICAL SERVICE | | | ERVICE | | |
|------|----------|--------------|-----|--------------|---------|--------------------|-------|----|--------|---------|------------------------------------|
| MARK | CAPACITY | 80°F
RISE | QTY | SIMULTANEOUS | CAP EA. | CAP TOTAL | VOLTS | PH | FREQ | WEIGHT | MANUFACTURER / MODEL |
| | | • | | | | | | , | | | |
| WH-1 | 30 gal | 32 | 1 | YES | 6 kW | 6 kW | 208 V | 3 | 60 Hz | 475 lb | AO SMITH DSE-30A OR APPROVED EQUAL |
| WH-2 | 30 gal | 32 | 1 | YES | 6 kW | 6 kW | 208 V | 3 | 60 Hz | 475 lb | AO SMITH DSE-30A OR APPROVED EQUAL |
| WH-3 | 80 gal | 94 | 1 | YES | 18 kW | 18 kW | 208 V | 3 | 60 Hz | 1100 lb | AO SMITH DSE-80A OR APPROVED EQUAL |
| WH-4 | 50 gal | 47 | 1 | YES | 9 kW | 9 kW | 208 V | 3 | 60 Hz | 850 lb | AO SMITH DSE-50A OR APPROVED EQUAL |

NOTES:

- COORDINATE PIPING INSTALLATION WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.
- PROVIDE SAFETY AN UNDER WATER HEATER. ROUTE DRAIN LINE FROM SAFETY PAN AND T&P RELIEF VALVE FROM WATER HEATER TO EXTERIOR WALL WITH ELBOW DOWN AT APPROXIMATELY 12" AFF.
- WATER HEATER TO BE FURNISHED AND INSTALLED WITH ASME COMPLIANT THERMAL EXPANSION TANK. WATER HEATER, TANK, AND T&P RELIEF VALVES SHALL BE ASME CERTIFIED. WATER HEATER TO BE PROVIDED WITH IMMERSION STYLE THERMOSTAT.

SCHEDULE - CIRCULATING PUMPS

| | | | | | MOT | MOTOR | | MOTOR ELECTRIC SERVIC | | RVICE | |
|------|---------|----------------------------|----------|----------|----------|-------|-------|-----------------------|-------|-----------------------------|--|
| MARK | SERVICE | DESCRIPTION | MAX FLOW | MAX HEAD | POWER | RPM | VOLTS | PH | FREQ | MANUFACTURER / MODEL | |
| | | | | | | | | | | | |
| CP-1 | WH-1 | 3-SPEED RECIRCULATING PUMP | 32 GPM | 33 ftH2O | 0.125 hp | 3250 | 120 V | 1 | 60 Hz | TACO 0013 OR APPROVED EQUAL | |
| CP-2 | WH-2 | 3-SPEED RECIRCULATING PUMP | 32 GPM | 33 ftH2O | 0.125 hp | 3250 | 120 V | 1 | 60 Hz | TACO 0013 OR APPROVED EQUAL | |
| CP-3 | WH-3 | 3-SPEED RECIRCULATING PUMP | 32 GPM | 33 ftH2O | 0.125 hp | 3250 | 120 V | 1 | 60 Hz | TACO 0013 OR APPROVED EQUAL | |
| CP-4 | WH-4 | 3-SPEED RECIRCULATING PUMP | 32 GPM | 33 ftH2O | 0.125 hp | 3250 | 120 V | 1 | 60 Hz | TACO 0013 OR APPROVED EQUAL | |

LENOARD TM-420B-LF-DT OR APPROVED EQUAL

- PUMP SHALL BE BRONZE OR STAINLESS STEEL CONSTRUCTION SUITABLE FOR DOMESTIC WATER USE.
- PROVIDE WITH AQUASTAT AND DIGITAL TIMER.

TMV-1 1 GPM

COORDINATE WITH ELECTRICAL CONTRACTOR FOR ELECTRICAL SERVICE.

| SCHEDULE - THERMOSTATIC MIXING VALVES | | | | | | | |
|---------------------------------------|----------|------------------|-----------|------------|---|--|--|
| MARK | MIN FLOW | FLOW @ 10 PSI PD | INLET DIA | OUTLET DIA | MANUFACTURER / MODEL | | |
| | | | | | | | |
| TMV-1 | 1 GPM | 18 GPM | 3/4" | 1" | LENOARD TM-420B-LF-DT OR APPROVED EQUAL | | |
| TMV-1 | 1 GPM | 18 GPM | 3/4" | 1" | LENOARD TM-420B-LF-DT OR APPROVED EQUAL | | |
| TMV-1 | 1 GPM | 18 GPM | 3/4" | 1" | LENOARD TM-420B-LF-DT OR APPROVED EQUAL | | |

NOTES:

ALL TMVs SHALL BE HIGH/LOW TYPE, ASSE 1017 COMPLIANT, AND LEAD FREE.

18 GPM

TMV SHALL HAVE ADJUSTABLE HIGH TEMPERATURE LIMIT STOP, INLET CHECK STOPS, WALL SUPPORT, OUTLET BALL VALVE, INLET MANIFOLD PIPING, LOCKING TEMPERATURE REGULATORS, AND COLOR CODED DIAL THERMOMETER.

PROVIDE ALL UNITS WITH WALL MOUNTING BRACKETS, VACUUM BREAKERS, AND TOP SUPPLIES FACTORY ASSEMBLED AND TESTED.

| SCHEDULE - THERMAL EXPANSION TANKS | | | | | | | |
|------------------------------------|--|--------|--------|-------------------------------|--|--|--|
| MARK | DESCRIPTION | VOLUME | WEIGHT | MANUFACTURER / MODEL | | | |
| | | | | | | | |
| ET-1 | ASME CERTIFIED BLADDER TYPE THERMAL EXPANSION TANK | 2 gal | 40 lb | ELBI DTS-8 OR APPROVED EQUAL | | | |
| ET-2 | ASME CERTIFIED BLADDER TYPE THERMAL EXPANSION TANK | 2 gal | 40 lb | ELBI DTS-8 OR APPROVED EQUAL | | | |
| ET-3 | ASME CERTIFIED BLADDER TYPE THERMAL EXPANSION TANK | 5 gal | 75 lb | ELBI DTS-19 OR APPROVED EQUAL | | | |
| ET-4 | ASME CERTIFIED BLADDER TYPE THERMAL EXPANSION TANK | 2 gal | 40 lb | ELBI DTS-8 OR APPROVED EQUAL | | | |

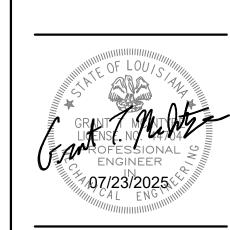
- SHELL SHALL BE FABRICATED STEEL DESIGNED AND CONSTRUCTED PER ASME SECTION VIII DIV 1. MAXIMUM WORKING PRESSURE OF 150 PSI AND MAXIMUM OPERATING TEMPERATURE OF 240°F.
- TANK SHALL BE MOUNTED AND SECURED TO WALL OR ON FLOOR

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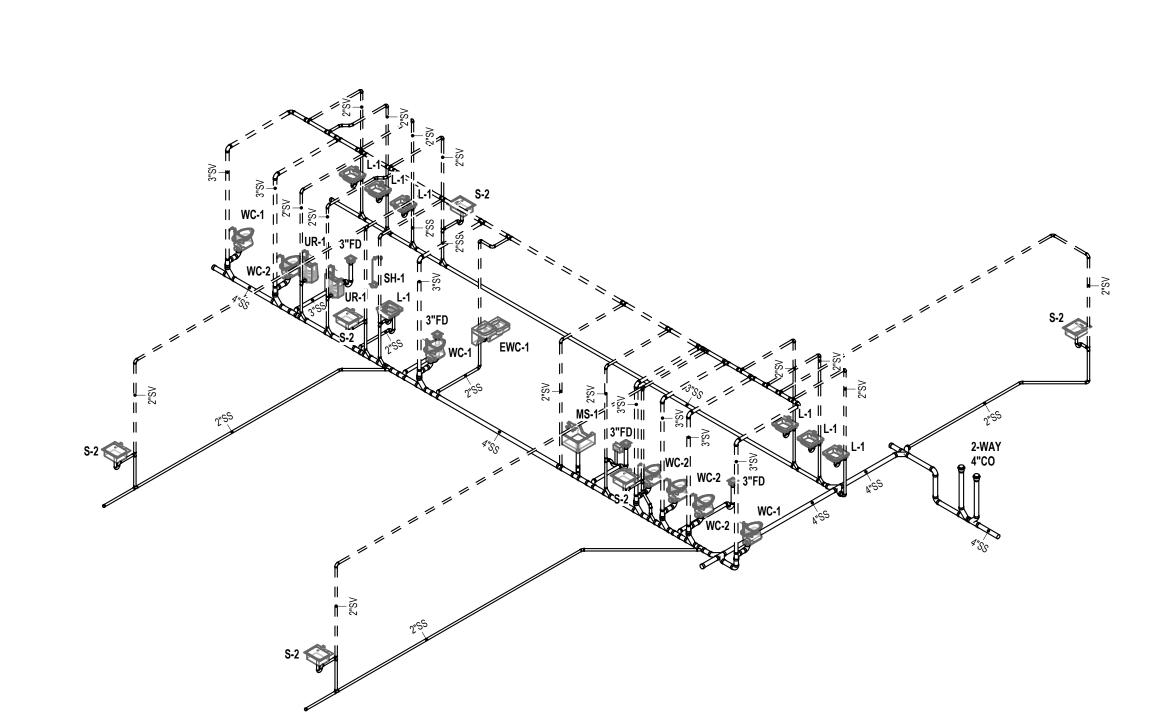
PLUMBING SCHEDULES

3 SANITARY RISER DIAGRAM - RESEARCH BLDG #1

2-WAY 4"CO

SANITARY RISER DIAGRAM - OFFICE BLDG #1

SANITARY RISER DIAGRAM - OFFICE BLDG #2



4 SANITARY RISER DIAGRAM - RESEARCH BLDG #2



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PLUMBING RISER DIAGRAMS

0" ½" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.