



EXHIBIT D
SCHEMATIC DESIGN

REQUEST FOR QUALIFICATIONS

PART A: PRE-CONSTRUCTION SERVICES (Design-Assist) and
PART B: CONSTRUCTION SERVICES (Construction Management at Risk)

New Nursing Building
Nicholls State University
Thibodaux, Louisiana
Project No. 19-621-22-01, F.19002436

October 9, 2023



Schematic Design Submittal

**New Nursing Building
Nicholls State University**
Thibodaux, Louisiana

State Project No. 19-621-22-01, F.19002436
State ID: NEW Site Code: 3-29-003

Owner:

**STATE OF LOUISIANA
DIVISION OF ADMINISTRATION
FACILITY PLANNING AND CONTROL**

User Agency:

**NICHOLLS STATE UNIVERSITY
THIBODAUX, LOUISIANA**

Architect: A Joint Venture



THIBODAUX, LOUISIANA
(GFP Project No. 2284)

Date:
July 28, 2023

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INTERNATIONAL BUILDING CODE - 2021

NFPA LIFE SAFETY CODE - 2015

INTERNATIONAL PLUMBING CODE - 2021

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1.0 SCHEMATIC DESIGN DRAWINGS

Schematic drawings are attached at the end of this submittal and include the following:

G0.00 - Cover Sheet

G2.00 - Three-Dimensional Design Intent Sketches/Models

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CIVIL Alternate

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A1.00 - First Floor Plan

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A6.00 - Building Sections

1.1 OUTLINE SPECIFICATIONS

Outline Specifications are attached at the end of this submittal:

See Attached Exhibit "A"

1.2 STATEMENT OF PROBABLE COST:

1. Opinion of Probable Cost:

See Attached Exhibit "B"

2. Analysis:

Based on the above Opinion of Probable Cost of **\$15,350,000**, we believe the current funds for Construction (A.F.C.) of \$15,350,000 is adequate to accomplish the work, and recommend proceeding to the next phase of design, Design Development, including additional analysis of the proposed cost and scope of work.

1.3 ENGINEERING CONSULTANT NARRATIVES

1. CIVIL DESIGN NARRATIVE

The proposed 17,572 SF (Gross Area) Nursing Building will be situated to the south of the existing Betsy Cheramie Ayo Hall building on the corners of Audubon Ave., Swanner Drive, and Alumni Drive with two access drives – 1 access on Alumni Drive and 1 access on Swanner Drive. Also proposed is a 1,302 SF maintenance yard that will be situated to the east of the proposed Nursing Building and to the north of the existing maintenance building. The parking lot will be situated to the south of the building. Being that the site is near Flood Zone AE 9.00 as indicated on the 1989 FEMA Flood Insurance Rate Maps, DDG recommends a finished floor of at least 9.75 which is the finished floor of Ayo Hall. It is anticipated that the building and surrounding landscaped and parking areas will drain to the major subsurface conveyance that runs along the southern portion of the site. The drainage system will be designed to mitigate the storm water flow from the site so as to not negatively impact any downstream areas.

The parking lot and drive aisles are being provided in accordance with the City of Thibodaux Code of Ordinances, and handicapped parking and accessible routes to the building are being provided in accordance with ADA standards. The parking lot will utilize the existing subsurface drainage network that routes storm water from the parking area to the major subsurface conveyance along the southern portion of the site. Sidewalks are being provided from the parking lot and existing sidewalks to the building. Also provided will be a plaza area that connects the nursing building and the existing Ayo Hall building.

Utilities that will be required to be routed to the proposed Nursing Building may include, but may not be limited to, electricity, gas, water (domestic, fire protection, irrigation), sewer service, and telecommunications. At the time of this report, utility companies have not been provided utility loads for the proposed building to decide as to whether the existing utility infrastructure is adequate to support the building. Through the design process and future correspondence with utility providers, DDG will determine if utilities are present at the site and if the existing utilities are adequate or if offsite utility extensions will be required to service the building.

2. STRUCTURAL DESIGN NARRATIVE

Foundation system:

The anticipated foundation system for the building will be a deep foundation system with treated timber piles supporting building loads as well as the ground floor slab. Groups of piles with pile caps will be utilized at column locations, and single piles will be located throughout the field of the slab. The ground floor slab will be approximately 6-inches thick and will be reinforced with conventional steel reinforcing bars. Grade beams will be located around the perimeter of the building, will be approximately 2'-0" wide x 2'-8" deep, and reinforced with conventional reinforcing.

Primary structural framing system:

The primary structural framing system will consist of a combination of steel columns, steel beams, and steel bar joists. The anticipated structural system for the second floor is a 3-inch thick concrete slab placed on 9/16-inch deep steel form deck, and supported by steel joists spaced approximately 2'-0" apart. Wide-flange steel beams will be located along column lines in both directions. The anticipated structural system for the low-slope roof is a 1 1/2-inch deep steel roof deck supported by steel joists spaced approximately 5'-0" apart. At high-pitched roof areas, the 1 1/2-inch deep steel roof deck will be supported by cold-formed steel trusses. The lateral load resisting system will consist of moment connections between the wide flange beams and columns in both directions.

3. MECHANICAL DESIGN NARRATIVE

Code Analysis

- Applicable Codes
 - International Mechanical Code - 2021 Edition
 - International Fuel Gas Code - 2021 Edition
 - International Plumbing Code - 2021 Edition
 - NFPA 101 Life Safety Code – 2015
 - ADA/ABA – 2010 Edition
 - International Energy Conservation Code – 2021 Edition

Air Distribution Systems

- The air handling system will consist of a fully ducted supply and return air system serving specific functional areas of the facility. All supply and return duct mains and branches shall be rigid, galvanized sheet metal, fabricated and installed in accordance with SMACNA standards. Supply ductwork upstream of air terminal units will be constructed for medium pressure, while low pressure supply and all return ductwork will be constructed for ductwork downstream of air terminal units. All supply air ductwork will be externally insulated. Return/exhaust air ductwork will not be insulated where there is a conditioned floor above; however, in cases where there is a roof directly above, the ductwork will be insulated the same as the supply duct.
- Ductwork shall be externally wrapped in concealed spaces, and shall be ridged board insulation in exposed areas including the mechanical room.
- Air handling units shall be double wall units with foam insulation. Manufacturers shall be **Carrier, Trane, or Daikin**. All units will have UV lighting, smoke detectors, cooling coils, primary filtration.
- General exhaust will be ducted out at the roof.

Electric Heating

- VAV boxes will be electric and provide reheat for each thermostatic zone.

Chilled Water System

- Chillers and pumps: The building will be cooled with one or two high efficiency air-cooled chillers. We will design two chillers to provide some level redundancy – the level of this redundancy will be determined in the design development phase. Chiller manufacturer shall be **Carrier, Trane, or Daikin**. The system shall use a variable primary type configuration. The number of pumps will be determined in design development dependent on redundancy. Chiller shall have an expansion tank and air/dirt separator.

Chillers will be located on the ground on adjacent to the existing nursing building mechanical space. Pumps will have variable frequency drives and shall be located in or near the existing mechanical building.

- Chilled water piping: Chilled water piping shall be as follows:
 - Chilled water above ground, NPS 4 and below shall be Type L, drawn-temper copper tubing, wrought copper fittings, and soldered joints.
 - Chilled water piping above ground, NPS 4 and above shall be ASTM A 53/A 53M, black steel with plain ends; welded and seamless, Grade B, and wall thickness as indicated in "Piping Applications" Article.
- Chilled water piping insulation: Chilled water piping insulation shall be as follows:
 - Chilled water piping located on the roof shall be fiberglass 3" with corrugated aluminum jacketing.
 - Chilled water piping located in the mechanical room shall be closed cell insulation 3" with PVC jacketing.

Building Controls

- The building controls shall be DDC and shall be. The control system will be an extension of the existing system installed at the Nichols campus. The system will utilize the existing software on the existing Nichols control server, and all new systems will connect to this server utilizing the existing network.

PROPOSED PLUMBING SYSTEMS

Code Analysis

- Applicable Codes
 - International Mechanical Code - 2021 Edition
 - International Plumbing Code - 2021 Edition
 - NFPA 101 Life Safety Code – 2015
 - ADA/ABA – 2010 Edition
 - International Energy Conservation Code – 2021 Edition

Waste and Vent Piping

- HUB-AND-SPIGOT, CAST-IRON SOIL PIPE AND FITTINGS
 - Pipe and Fittings: ASTM A 74, Service classes.
 - Gaskets: ASTM C 564, rubber.
 - Calking Materials: ASTM B 29, pure lead and oakum or hemp fiber.

- HUBLESS, CAST-IRON SOIL PIPE AND FITTINGS
 - Pipe and Fittings: ASTM A 888 or CISPI 301.
 - CISPI, Hubless-Piping Couplings:
 - Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - Fernco Inc.
 - MIFAB, Inc.
 - Tyler Pipe; a subsidiary of McWane Inc.
 - Standards: ASTM C 1277 and CISPI 310.
 - Description: Stainless-steel corrugated shield with stainless-steel bands and tightening devices; and ASTM C 564, rubber sleeve with integral, center pipe stop.

Storm Drainage Piping

- HUB-AND-SPIGOT, CAST-IRON PIPE AND FITTINGS
 - Pipe and Fittings: ASTM A 74, Service classes.
 - Gaskets: ASTM C 564, rubber.
 - Calking Materials: ASTM B 29, pure lead and oakum or hemp fiber.
- HUBLESS, CAST-IRON SOIL PIPE AND FITTINGS
 - Pipe and Fittings: ASTM A 888 or CISPI 301.
 - CISPI, Hubless-Piping Couplings:
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 - Fernco Inc.
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 - Standards: ASTM C 1277 and CISPI 310.
 - Description: Stainless-steel corrugated shield with stainless-steel bands and tightening devices; and ASTM C 564, rubber sleeve with integral, center pipe stop.

Domestic Water Piping

- Aboveground domestic water piping, NPS 2 and smaller, shall be one of the following:
 - Hard copper tube, ASTM B 88, Type L copper, solder-joint fittings; and brazed or soldered joints.
 - Retain "one of" option in first paragraph below to allow Contractor to select piping materials from those retained.

- Aboveground domestic water piping, NPS 2-1/2 to NPS 4, shall be one of the following:
 - Hard copper tube, ASTM B 88, Type L copper, solder-joint fittings; and brazed or soldered joints.

Domestic Water Piping Installation

- Domestic Cold Water:
 - NPS 1 and Smaller: Insulation shall be one of the following:
 - Cellular Glass: 1-1/2 inches thick.
 - Flexible Elastomeric: 3/4 inch thick.
 - Mineral-Fiber, Preformed Pipe Insulation, Type I: 1/2 inch thick.
 - NPS 1-1/4 and Larger: Insulation shall be one of the following:
 - Cellular Glass: 1-1/2 inches thick.
 - Flexible Elastomeric: 1 inch thick.
 - Mineral-Fiber, Preformed Pipe Insulation, Type I: 1 inch thick.
- Domestic Hot and Recirculated Hot Water:
 - NPS 1-1/4 and Smaller: Insulation shall be one of the following:
 - Cellular Glass: 1-1/2 inches thick.
 - Flexible Elastomeric: 3/4 inch thick.
 - Mineral-Fiber, Preformed Pipe Insulation, Type I: 1/2 inch thick.
 - Phenolic: [1 inch] <Insert dimension> thick.
 - Polyolefin: [3/4 inch] [1 inch] <Insert dimension> thick.
 - NPS 1-1/2 and Larger: Insulation shall be one of the following:
 - Cellular Glass: 1-1/2 inches thick.
 - Flexible Elastomeric: 1 inch thick.
 - Mineral-Fiber, Preformed Pipe Insulation, Type I: 1 inch thick.
- Stormwater and Overflow:
 - All Pipe Sizes: Insulation shall be one of the following:
 - Cellular Glass: 1-1/2 inches thick.
 - Flexible Elastomeric: 1 inch thick.
 - Mineral-Fiber, Preformed Pipe Insulation, Type I: 1 inch thick.
- Roof Drain and Overflow Drain Bodies:
 - All Pipe Sizes: Insulation shall be one of the following:
 - Cellular Glass: 1-1/2 inches thick.

- Flexible Elastomeric:1 inch thick.
- Mineral-Fiber, Preformed Pipe Insulation, Type I: 1 inch thick.

Domestic Hot Water

- Domestic hot water heater shall be instantaneous gas with 100% redundancy.

Sprinkler System

- The building will be served by a wet pipe system. A fire pump will not be required.

4. ELECTRICAL DESIGN NARRATIVE

Code Analysis

- Applicable Codes
 - National Electric Code (NEC) – 2020
 - NFPA 101 Life Safety Code – 2015
 - International Energy Conservation Code (IECC) – 2021
 - International Building Code (IBC) – 2021
 - NFPA 72 National Fire Alarm Code – 2019

Power System

- The system shall be designed in accordance with all applicable national codes and local ordinances in force at the time of the construction by the Authority Having Jurisdiction.
- The utility service voltage shall be at 13,800V from the existing Nicholl's owned junction box located along Alumni Dr. Medium voltage circuits C and D shall be brought to a new 1500kVA pad mount transformer.
- The new 13.800:480/277 volts, 3-phase, 4-wire pad mounted transformer shall be located in the equipment yard.
- Distribution panelboards and Switchboards will be used to distribute 480/277-volt 3-phase power to electrical panels in electrical rooms dispersed regularly throughout the building.
- Local transformers will step the power down to 208/120-volts, 3 phase, 4 wires and feed 208/120-volt branch panels for each area of the facility.
- Branch panels will house circuit breakers to protect circuits for the lighting, receptacles, appliances, and other miscellaneous loads.
- Branch panels will be located in the general vicinity of the loads they serve to reduce circuit runs mitigate wire upsizing due to voltage drop and provide local access for ease of maintenance.
- The interior and exterior luminaries shall utilize 277V where practical. Specialty lighting (i.e. under cabinet) will utilize 120V.
- Large equipment and motors (non-fractional) shall be energized at 480 volt, 3-phase where possible.
- General purpose receptacle shall operate at 120V and not exceed 1800VA per circuit. All specialty equipment shall have dedicated circuits.
- Ground fault protection will be installed on main and feeder breakers where required by Code.

- Standby generation is not considered at this time.

Electrical Methods of Installation

- A common source of equipment shall be utilized throughout this project to ensure successful coordination of overcurrent devices.
- Distribution panelboards shall be wall mounted as required with hinged door, utilize aluminum bussing, and bolt-on breakers.
- Appliance panelboards shall be wall or flush mounted as required with hinged door, utilize aluminum bussing, and bolt-on breakers.
- Circuit Breakers will be bolt-on, molded case, thermal magnetic trip. They will have LSIG adjustable magnetic trip setting for circuit-breaker frame sizes 250 A and larger.
- Ground fault protection will be installed on feeder and branch circuit breakers where required by Code.
- Transformers shall be 2010 DOE energy efficient, dry-type, with aluminum core.
- All wiring devices shall be commercial grade, white unless noted.
- All switches shall be wireless, battery operated.
- All circuits will consist of single insulated conductors in raceways.
- Conductors will be thermoplastic insulated 75° C THHN/THWN. #6 AWG and smaller will be solid and #8 AWG will be stranded.
- Conductors will be copper for circuits 100 amps and less. Aluminum conductors will be used for circuits greater than 100A.
- Individual neutrals will be provided for branch circuits other than 3-phase loads not requiring neutrals.
- Voltage drop calculations will be performed to ensure voltage drop does not exceed 3% on branch circuits and not to exceed 5%.
- All branch circuits will be routed concealed in walls, below slab, and above ceilings wherever possible.
- The minimum raceway size will be 1/2 inch.
- All interior circuits shall be individual conductors installed in EMT conduit.
- All exterior circuits shall utilize Sch 80 RNC painted to match architectural surfaces.
- Outlet boxes will be 4" square by 2 1/8" deep (or larger) with ring and cover for general interior use and cast metal type FS or FD with matching weatherproof screw-covers for exterior locations (gasketed in damp or wet locations).

Lighting System

- LED type luminaires will be used throughout for energy efficiency and longevity.
- All lighting fixtures will be provided with 5-year warranty (minimum)
- Interior Lighting shall have Color Rendering Index (CRI) minimum of 80 and Correlated Color Temperature (CCT) of 3500K.
- Interior lighting fixture types will vary based on ceiling conditions, use of space, and budget.
- Lighting shall be dimmable down to 10% in most interior areas where practical.
- Wireless occupancy sensors will be used throughout the project. Three-way wiring and down the wall switch wiring will not be required.
- Architectural fixtures will be LED and selected by the Architect and will be located throughout atrium, waiting areas, and conference rooms.
- All exterior fixtures will be LED with Correlated Color Temperature (CCT) of 4000K and dark sky compliant.
- Pole mounted fixtures will glare control optics and utilize round steel poles.
- All exit lighting will have integral battery packs.
- Life safety lighting will be designed to provide 1 foot-candle of lighting along the egress path. Source of power will be via a central inverter.

Lightning Protection

- Buildings will be equipped with a UL Master Label Lightning Protection System in compliance with NFPA 780 consisting of air terminals and associated conductors and fittings.
- Grounded metal bodies such as pipe vents, roof drains, and other HVAC equipment shall be interconnected.
- Roof and down conductors will be concealed as much as possible and be compatible with other building materials to prevent corrosion.
- Building/structure steel will be used as down conductors as systems allow
- Connections to building steel shall utilize copper.

Data Systems

- The data system shall be installed in accordance with Nicholls IT Standards.
- Backbone cabling shall be multi-mode fiber-optic cables installed in basket-style cable tray in the corridors.

- Horizontal cabling shall be Cat 6 cables installed in basket-style cable tray in the corridors and J-Hooks in individual rooms.
- Main I.T. room shall utilize floor mounted racks, complete with fiber to analog converters, network switches, routers, and patch panels.
- Intermediate I.T. room shall utilize wall mounted cabinets, complete with fiber to analog converters, network switches, routers, and patch panels.
- All data outlet shall utilize 1" EMT with bushings stubbed into accessible ceiling space. EZ path fire rated assemblies shall be utilized to penetrate corridors walls.
- All data drops shall have a minimum of two drops.

Intercommunications and Telephone Systems

- System shall utilize IP speakers and VOIP telephones. Broadband fiber service will be brought to the building via the Telco right away.
- The system will be installed in a floor mounted four post rack in the main I.T, room.
- Telephones shall connect to any standard data outlet.
- Cabling shall be Cat 6 cables installed utilizing wire basket cable trays in corridors and J-Hooks above ceilings and shall utilize 1" EMT (in walls) with bushings stubbed into accessible ceiling space.
- Paging speakers will be ceiling mounted with an associated flush mounted call button.

Fire Alarm System

- The fire alarm system will be an addressable fire alarm system with voice evacuation. The fire alarm system shall be capable of being monitored by the existing Johnson Control System via supervisory modules.
- The fire alarm control panel will be located in the electrical room and a fire alarm annunciator at the main entrance.
- Cabling shall installed utilizing J-Hooks above ceilings and shall utilize 1/2" EMT (in walls) with bushings stubbed into accessible ceiling space.
- Manual pull stations shall be installed in the egress paths at exterior doors and at entrances to stairwells.
- Audible and visual signaling devices shall be installed in all, corridors, toilets, procedure rooms, and offices where two or more people are occupied and ceiling mounted where practical.
- Visual-only signaling devices shall be installed in all conference rooms, work rooms, etc. and ceiling mounted where practical.

- Smoke detectors, monitoring modules, hold-open devices shall be provided where required and ceiling mounted where practical.
- Devices shall be ceiling-mounted where possible. Wall-mounted devices shall be provided.

Security System

- An addressable alarm system will be installed throughout the building.
- Cabling shall installed utilizing J-Hooks above ceilings and shall utilize 1/2" EMT (in walls) with bushings stubbed into accessible ceiling space.
- An IP standalone camera system will be installed.
- Access control will provided at employee entry doors both interior and exterior.
- The NVR and access control panel will be located in the main I.T. closet.

1.4 CODE ANALYSIS

1. Code Analysis & ADA Standards Compliance:

See Attached Exhibit "C" – Facility Planning & Control Code Analysis & ADA Standards Compliance.

1.5 PROJECT TIME SCHEDULE

Date Prepared: July 28, 2023

TIME SCHEDULE

Project Name: New Nursing Building

User: Nicholls State University

Location Thibodaux, Louisiana

Project No. 19-621-22-01, F.19002436

Date of Pre-Design Conference February 8, 2023

Original Contract Time 365

Number of Review Days 65

Number of Design Days 300

PHASE SUBMITTAL	ORIGINAL DATE DUE	DAYS EXT.	REVISED DUE DATE	REVIEW DAYS
Program Completion	<u>March 31, 2023</u>	<u> </u>	<u> </u>	<u>15</u>
Schematic Design	<u>July 31, 2023</u>	<u> </u>	<u> </u>	<u>15</u>
Design Development	<u>Oct. 31, 2023</u>	<u> </u>	<u> </u>	<u>15</u>
Con. Documents	<u>Jan. 15, 2024</u>	<u> </u>	<u> </u>	<u>20</u>
Bid Documents	<u>Feb. 8, 2024</u>	<u> </u>	<u> </u>	<u> </u>

NOTE: This form is to be completed and submitted with the minutes of the Pre-Design Conference, and with each Design Submittal.

ABBREVIATIONS

Table with 4 columns: KEY NAME, COMMENT, KEY NAME, COMMENT, KEY NAME, COMMENT, KEY NAME, COMMENT. Lists various construction abbreviations like AMPERES, ANCHOR BOLT, AMERICANS WITH DISABILITIES ACT, etc.

NEW NURSING BUILDING NICHOLLS STATE UNIVERSITY

THIBODAUX, LA

STATE OF LOUISIANA DIVISION OF ADMINISTRATION FACILITY PLANNING AND CONTROL



PROJECT GRAPHIC REFERENCE

Project Graphic Reference section containing symbols for PROJECT SYMBOLS, CONSTRUCTION TYPE SYMBOLS, MATERIAL INDICATIONS, EXTERIOR ELEVATION, INTERIOR ELEVATION, MATCHLINE, SPECIFIC NOTE, KEYNOTE TAG, WINDOW, CURTAINWALL, & STOREFRONT TAG, REVISION TAG, and PHOTOGRAPH TAG.

SHEET REFERENCE

PROJECT DESCRIPTION

SHEET NUMBER A2.01 LEVEL REFERENCE (PLANS), or SEQUENCE (01 - 99....etc.) SHEET SERIES TYPE 1 FLOOR PLANS (Note: Flip Sheets are Finish Schedules for corresponding areas) 2 FINISHED PLANS 3 OPENING SCHEDULES AND DETAILS 4 ROOF PLANS & DETAILS 5 EXTERIOR ELEVATIONS 6 BUILDING SECTIONS, WALL SECTIONS, PARTITION TYPES 7 INTERIOR ELEVATIONS & DETAILS 8 CASEWORK, MILLWORK 9 VERTICAL CIRCULATION SECTIONS & DETAILS 10 REFLECTED CEILING PLANS & DETAILS 11 ALTERNATE BID INFORMATION (PLANS, ELEVATIONS, SECTIONS, SCHEDULES, DETAILS)

CONSTRUCTION OF A NEW NURSING BUILDING OF APPROXIMATELY 34,300 SF. THE BUILDING IS TWO STORIES.

DRAWING INDEX

Drawing Index table with columns SHEET NUMBER and SHEET NAME. Lists sheets G0.00 through A6.00 including Cover Sheet, Design Intent Sketches, Demolition Plan, Site Plan, Grading Plan, Utility Plan, First Floor Plan, Second Floor Plan, Exterior Elevations, and Building Sections.

CODE ANALYSIS

Code Analysis section including A. OCCUPANCY (INTERNATIONAL BUILDING CODE, 2021 EDITION), B. CONSTRUCTION TYPE (TYPE IIB - 2021 IBC), C. BUILDING PHYSICAL PROPERTIES, D. ALLOWABLE HEIGHTS AND AREAS PER CONSTRUCTION TYPE & OCCUPANCY CLASSIFICATION, E. SPRINKLER SYSTEM, F. EGRESS ANALYSIS (NFPA TABLE 7.3.1.2), G. EXIT ACCESS, H. ACCESSIBILITY, I. OTHER CODES, and J. STRUCTURAL LOADS.

GOVERNING AUTHORITIES

STATE OF LOUISIANA DEPARTMENT OF PUBLIC SAFETY OFFICE OF STATE FIRE MARSHAL 8181 INDEPENDENCE BLVD. BATON ROUGE, LA 70802 TEL: (225) 925-4500

UTILITIES

ELECTRIC: WATER: GAS: TELEPHONE:



Table listing project team members: ARCHITECTURE (GROS FLORES POSTERRI, LLC), CIVIL (DUPLANTIS DESIGN GROUP, PC), STRUCTURAL (BACALAN ENGINEERS), MECHANICAL (YKH CONSULTING, LLC), ELECTRICAL (YKH CONSULTING, LLC), OTHER (NONE).



NEW NURSING BUILDING NICHOLLS STATE UNIVERSITY THIBODAUX, LA SCHEMATIC DESIGN



PROFESSIONAL SEAL

Table with project details: CLIENT (NICHOLLS STATE UNIVERSITY), PROJECT NUMBER (2284), DATE (07/28/2023), REVISIONS table, and SCHEMATIC DESIGN / COVER SHEET status.

GO.00

CHECKED BY:

AUTHOR

DRAWN BY:

7/28/2023 8:21:42 AM

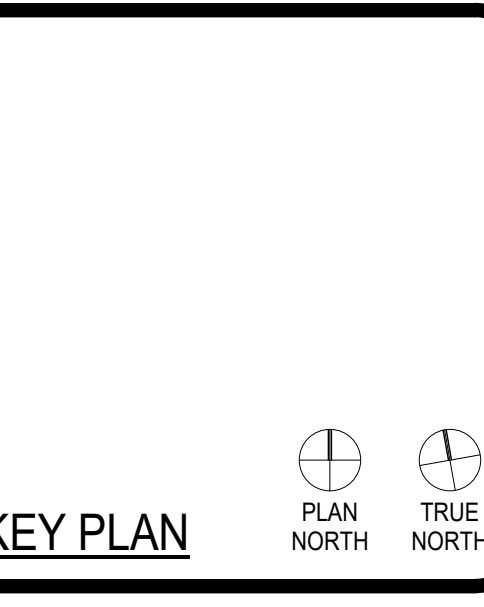


ARCHITECTURE	GROS FLORES POSITERRY, LLC 307 CANAL BLVD THIBODAUX, LA 70301 985-447-9931 P
CIVIL	DUPLANTIS DESIGN GROUP, PC 314 E BAYOU ROAD THIBODAUX, LA 70301 985-447-2000 P
STRUCTURAL	BADAUX ENGINEERS 415 E 6TH STREET THIBODAUX, LA 70301 985-447-2317 P (985) 447-2319 F
MECHANICAL	YKH CONSULTING, LLC. 3701 HESSMER AVE. METAIRIE, LA 70002 (504) 284-5111 P
ELECTRICAL	YKH CONSULTING, LLC. 3701 HESSMER AVE. METAIRIE, LA 70002 (504) 284-5111 P
OTHER	NONE
OTHER	NONE
OTHER	NONE



**NEW NURSING BUILDING
NICHOLLS STATE
UNIVERSITY**

THIBODAUX, LA
SCHEMATIC DESIGN



PROFESSIONAL SEAL

CLIENT	NICHOLLS STATE UNIVERSITY	
PROJECT NUMBER	2284	
DATE	07/28/2023	
REVISIONS		
No.	Description	Date

SCHEMATIC DESIGN
THREE-DIMENSIONAL DESIGN INTENT
SKETCHES/MODELS

G2.00

CHECKED BY: Checker

DRAWN BY: Author

7/27/2023 4:20:32 PM



ARCHITECTURE

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ELECTRICAL

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OTHER

NONE

OTHER

NONE

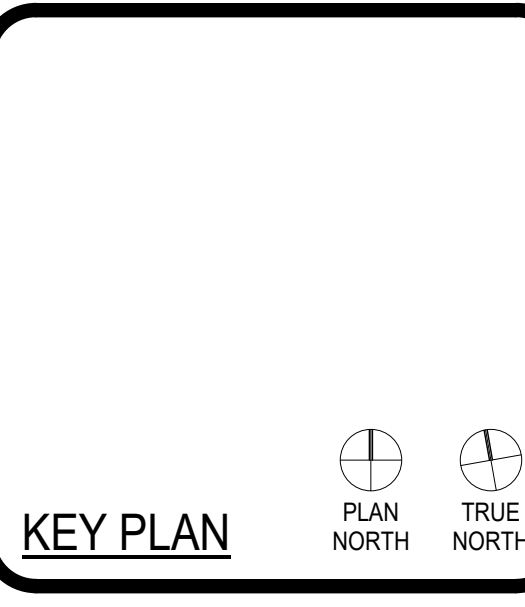
OTHER

NONE



**NEW NURSING BUILDING
NICHOLLS STATE
UNIVERSITY**

THIBODAUX, LA
SCHEMATIC DESIGN



PROFESSIONAL SEAL

CLIENT

NICHOLLS STATE UNIVERSITY

PROJECT NUMBER

2284

DATE

07/28/2023

REVISIONS

No.	Description	Date

SCHEMATIC DESIGN

THREE-DIMENSIONAL DESIGN INTENT
SKETCHES/MODELS

G2.01

ARCHITECTURE	GRÓS FLORES POSTERITY, LLC 307 CANAL BLVD THIBODAUX, LA 70301 985-447-9931 P
CIVIL	DUPLANTS DESIGN GROUP, PC 314 E. BAYOU ROAD THIBODAUX, LA 70301 (985) 447-0090 P
STRUCTURAL	BADAEUX ENGINEERS 115 E. 6TH STREET THIBODAUX, LA 70301 (985) 447-2317 P (985) 447-2319 F
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ELECTRICAL	YKH CONSULTING, LLC 3701 HESSMER AVE. METAIRIE, LA 70002 (504) 284-5111 P
OTHER	NONE
OTHER	NONE
OTHER	NONE



**NEW NURSING BUILDING
NICHOLLS STATE
UNIVERSITY**

THIBODAUX, LA
SCHEMATIC DESIGN

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE DISCONNECTION OF UTILITY SERVICES TO THE EXISTING BUILDINGS AND ACCESSORY STRUCTURES PRIOR TO DEMOLITION OF THE BUILDINGS.
2. THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE DISCONNECTION, REMOVAL, & OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY TO DETERMINE PORTIONS OF UTILITY WORK WILL BE PERFORMED BY THE UTILITY COMPANY'S FORCES & ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR UTILITY DISCONNECTION, REMOVAL, RELOCATIONS, AND PAYING ASSOCIATED FEES & CHARGES UNLESS OTHERWISE NOTED IN THE PLANS.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION & REMOVAL OF ALL BUILDINGS, STRUCTURES, PAIS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, ORANGE STRUCTURES, UTILITIES, ETC. TO FACILITATE THE CONSTRUCTION OF IMPROVEMENTS SHOWN ON THE REMAINING CONSTRUCTION DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS INVOLVED WITH DEMOLITION ACTIVITIES AND IS RESPONSIBLE FOR REMOVING & DISPOSAL OF THE DEBRIS IN AN APPROVED, LAWFUL MANNER. THE CONTRACTOR MAY NOT STORE DEMOLISHED MATERIAL ON-SITE UNLESS APPROVED IN WRITING BY THE OWNER.
4. EXISTING UTILITIES (INCLUDING METERS, VALVES, ETC.) BEING REMOVED SHALL BE REMOVED, TERMINATED & CAPPED AT THE PROPERTY LINE UNLESS OTHERWISE NOTED IN THE PLANS.
5. THE CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO THE EXISTING ADJACENT PROPERTIES AT ALL TIMES. IF UTILITY REMOVAL OR RELOCATION WILL AFFECT AN ADJACENT PROPERTY OWNER, THE CONTRACTOR SHALL COORDINATE WITH AFFECTED PARTIES & UTILITY COMPANIES PRIOR TO THE RELOCATION OR REMOVAL OF UTILITIES. UTILITY SERVICE SHALL NOT BE INTERRUPTED WITHOUT WRITTEN APPROVAL FROM THE AFFECTED END USER.
6. ALL AREAS WHERE PAVEMENT, STRUCTURE SLABS, FOUNDATIONS, UTILITIES, CONDUITS, UTILITY STRUCTURES, AND FACILITIES HAVE BEEN REMOVED SHALL BE BACKFILLED WITH COMPACTED SELECT BACKFILL MATERIAL. SELECT FILL MATERIAL SHALL BE PLACED & COMPACTED PER THE REQUIREMENTS OF SITE PREPARATION NOTES, APPLICABLE SPECIFICATIONS & THE OWNER'S GEOTECHNICAL ENGINEER.
7. EXISTING CAST IN PLACE SEPTIC TANKS SHALL BE PUMPED BY A LICENSED CONTRACTOR. THE SEPTIC TANK SHALL THEN BE BACKFILLED PER THE PROJECT SPECIFICATIONS. IF AN EXISTING CAST IN PLACE SEPTIC TANK IS LOCATED SUCH THAT IT CONFLICTS WITH THE REQUIRED FOUNDATION SYSTEM, THE SEPTIC TANK SHALL BE REMOVED. ALL WORK SHALL BE IN ACCORDANCE WITH HEALTH DEPARTMENT REQUIREMENTS.
8. EXISTING FENCES LOCATED IN THE PROJECT AREA SHALL BE DEMOLISHED & REMOVED UNLESS OTHERWISE NOTED.
9. EXISTING MANHOLES, DRAINAGE STRUCTURES & VALVE BOXES TO REMAIN IN PLACE SHALL BE ADJUSTED TO FINAL GRADES.
10. PRIOR TO ANY WORK ON-SITE, THE CONTRACTOR SHALL CONTACT THE LOUISIANA ONE CALL SYSTEM AT 1-800-272-3020 OR 811. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY REMOVALS.
11. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY.
12. ANY DAMAGE TO EXISTING IMPROVEMENTS TO REMAIN SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. REPLACEMENT AND REPAIRS MADE SHALL BE EQUAL TO OR BETTER THAN EXISTING.
13. THE CONTRACTOR SHALL CONTACT THE OWNER AT LEAST 72-HOURS PRIOR TO BEGINNING OF DEMOLITION OPERATIONS TO ENSURE ALL SALVAGEABLE MATERIAL DESIRED BY THE OWNER IS REMOVED FROM THE SITE.
14. PRIOR TO BEGINNING DEMOLITION, CONTRACTOR SHALL LOCATE AND MARK LIMITS OF CONSTRUCTION. NO CONSTRUCTION ACTIVITIES SHALL TAKE PLACE OUTSIDE OF THESE LIMITS.
15. THE CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION MEETING ON SITE WITH ALL UTILITY COMPANIES IMMEDIATELY AFTER CONTRACT AWARD TO COORDINATE SCHEDULE FOR UTILITY REMOVAL AND RELOCATION.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE COMPLETE SCOPE OF THE DEMOLITION PROGRAM.
17. CONTRACTOR SHALL COORDINATE WITH OWNER TO DETERMINE IF ANY ITEMS BE SALVAGED OR REMOVED BY OTHERS PRIOR TO DEMOLITION.
18. ADEQUATE EROSION CONTROL DEVICES MUST BE INSTALLED PRIOR TO THE START OF DEMOLITION ACTIVITIES UNLESS OTHERWISE NOTED IN THE PLANS OR APPROVED IN WRITING BY THE ENGINEER.
19. PRIOR TO THE START OF DEMOLITION AND CONSTRUCTION ACTIVITIES THE CONTRACTOR MUST CALL 811 AND THE LOCAL UTILITY PROVIDERS TO HAVE ALL UTILITIES MARKED WITHIN THE PROJECT AREA. AFTER UTILITIES ARE MARKED, THE CONTRACTOR SHALL PERFORM A PLAN IN HAND WALK THRU OF THE ENTIRE PROJECT AREA AND SHALL CONTACT THE CIVIL ENGINEER IMMEDIATELY IF THERE ARE ANY DEVIATIONS IN THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS AND/OR THE PRESENCE OF UTILITIES THAT ARE NOT SHOWN IN THE PLANS.

NOTE:
THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING BID TO DETERMINE THE EXTENT OF REQUIRED DEMOLITION

NOTE:
THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY PRIOR TO THE START OF ANY DEMOLITION ACTIVITY. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ON-SITE LOCATIONS OF EXISTING UTILITIES.

GENERAL NOTES:

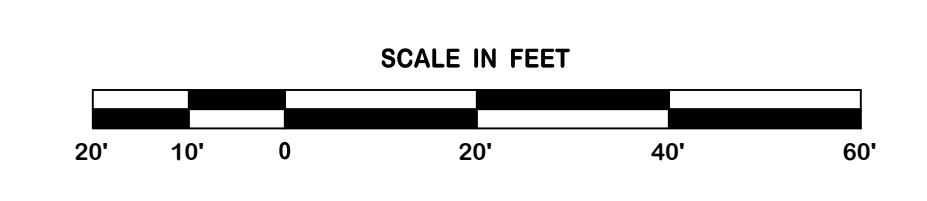
1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE TEMPORARY SUPPORT, STRUCTURAL INTEGRITY & STABILITY OF EXISTING STRUCTURES & SLOPES DURING ALL PHASES OF CONSTRUCTION.
2. CONTRACTOR SHALL PROVIDE ADEQUATE LATERAL SUPPORT TO THE SUBGRADE OF ALL EXISTING ADJACENT FOUNDATIONS & PAVEMENT DURING ALL PHASES OF CONSTRUCTION TO PREVENT UNDERMINING.
3. EXISTING CONDITIONS SHOWN ON THESE PLANS WERE OBTAINED FROM SURVEY PREPARED FOR THIS PROJECT. ALL EXISTING DIMENSIONS, ELEVATIONS, FOUNDATIONS & GENERAL BUILDING INFORMATION SHALL BE FIELD VERIFIED BEFORE PURCHASE OF MATERIALS & PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY EOR OF ANY DISCREPANCIES BETWEEN PROPOSED PLANS & EXISTING FIELD CONDITIONS IMMEDIATELY.
4. CONTRACTOR IS RESPONSIBLE FOR REPAIRING/REPLACING ANY DAMAGED ITEMS DURING ALL PHASES OF CONSTRUCTION AT NO COST TO THE OWNER OR WITHOUT AN EXTENSION OF CONTRACT TIME.
5. ALL EXCAVATED MATERIAL FROM THE PROJECT SITE SHALL BE DISPOSED AS REQUIRED BY OWNER.

LEGEND - NEW IMPROVEMENTS

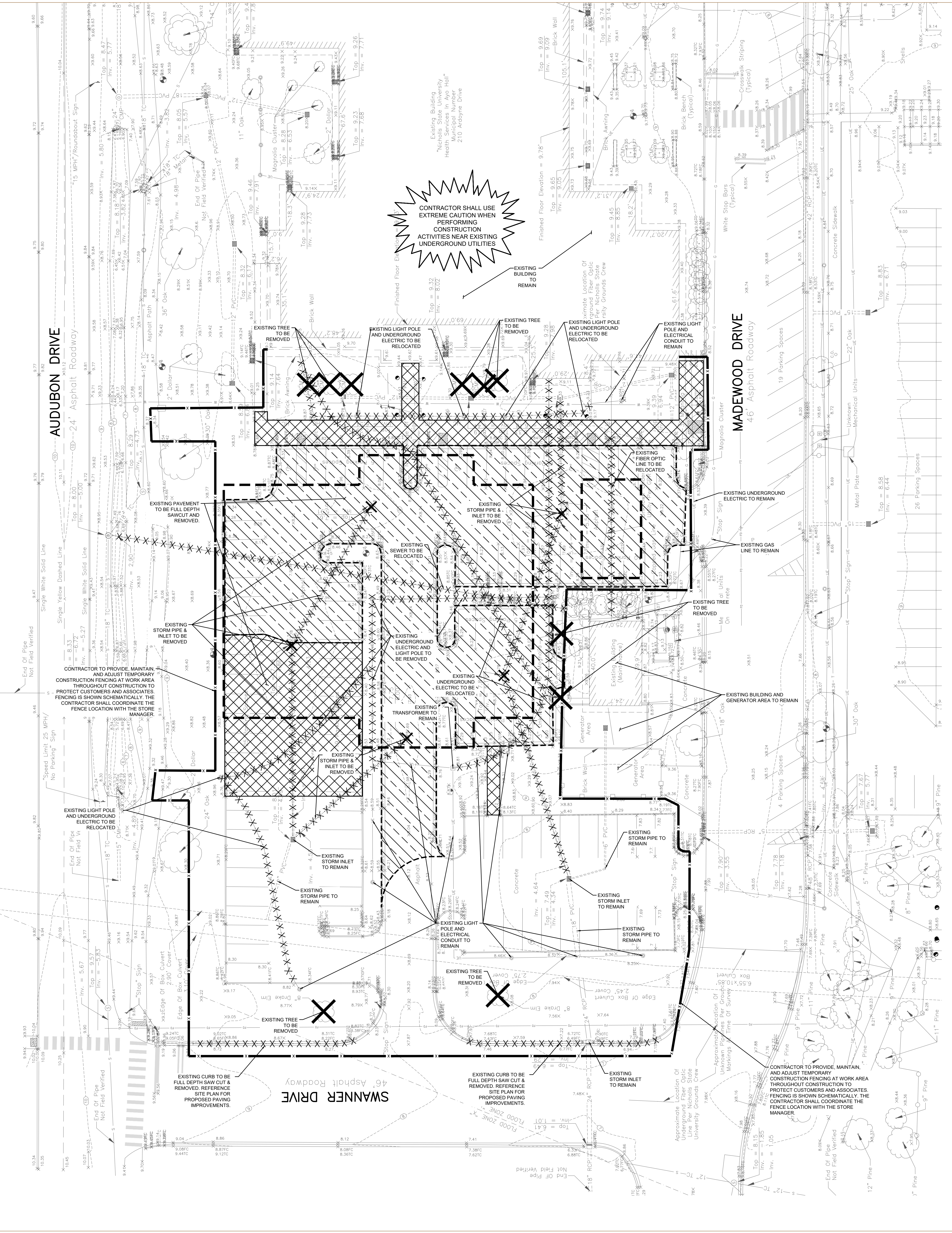
EXISTING SIGNAGE TO BE REMOVED	X	EXISTING DRAINAGE PIPE TO BE REMOVED	-X-X-X-
EXISTING POWER POLE TO BE REMOVED	X	EXISTING GAS LINE TO BE REMOVED	-X-X-X-
EXISTING LIGHT POLE TO BE REMOVED	X	EXISTING SEWER PIPE TO BE REMOVED	-X-X-X-
TEMPORARY CONSTRUCTION FENCE	--- ---	EXISTING UNDERGROUND ELECTRICAL CONDUIT TO BE REMOVED	-X-X-X-
LIMITS OF BUILDING	--- ---	EXISTING SEWER CLEANOUT TO BE REMOVED	X
PORTION OF EXISTING ASPHALT PAVEMENT TO BE REMOVED	XXXXXX	EXISTING CATCH BASIN/DROP INLET TO BE REMOVED	X
PORTION OF EXISTING CONCRETE PAVEMENT TO BE REMOVED	XXXXXX	EXISTING TREE TO BE REMOVED (REMOVAL INCLUDES STUMP AND ROOTS)	XXX
EXISTING CURB & GUTTER TO BE REMOVED	X-X-X		

CONTRACTOR SHALL CONTACT 811 FOR LOCATION OF ALL UTILITIES, AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION

DEMOLITION PLAN



CONTRACTOR SHALL USE EXTREME CAUTION WHEN PERFORMING CONSTRUCTION ACTIVITIES NEAR EXISTING UNDERGROUND UTILITIES



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KEY PLAN
PLAN NORTH
TRUE NORTH

PROFESSIONAL SEAL

CLIENT	NICHOLLS STATE UNIVERSITY	
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DATE	07/28/2023	
REVISIONS		
No.	Description	Date

SCHEMATIC DESIGN
DEMOLITION PLAN

D-1

AUDUBON DRIVE
24' Asphalt Roadway

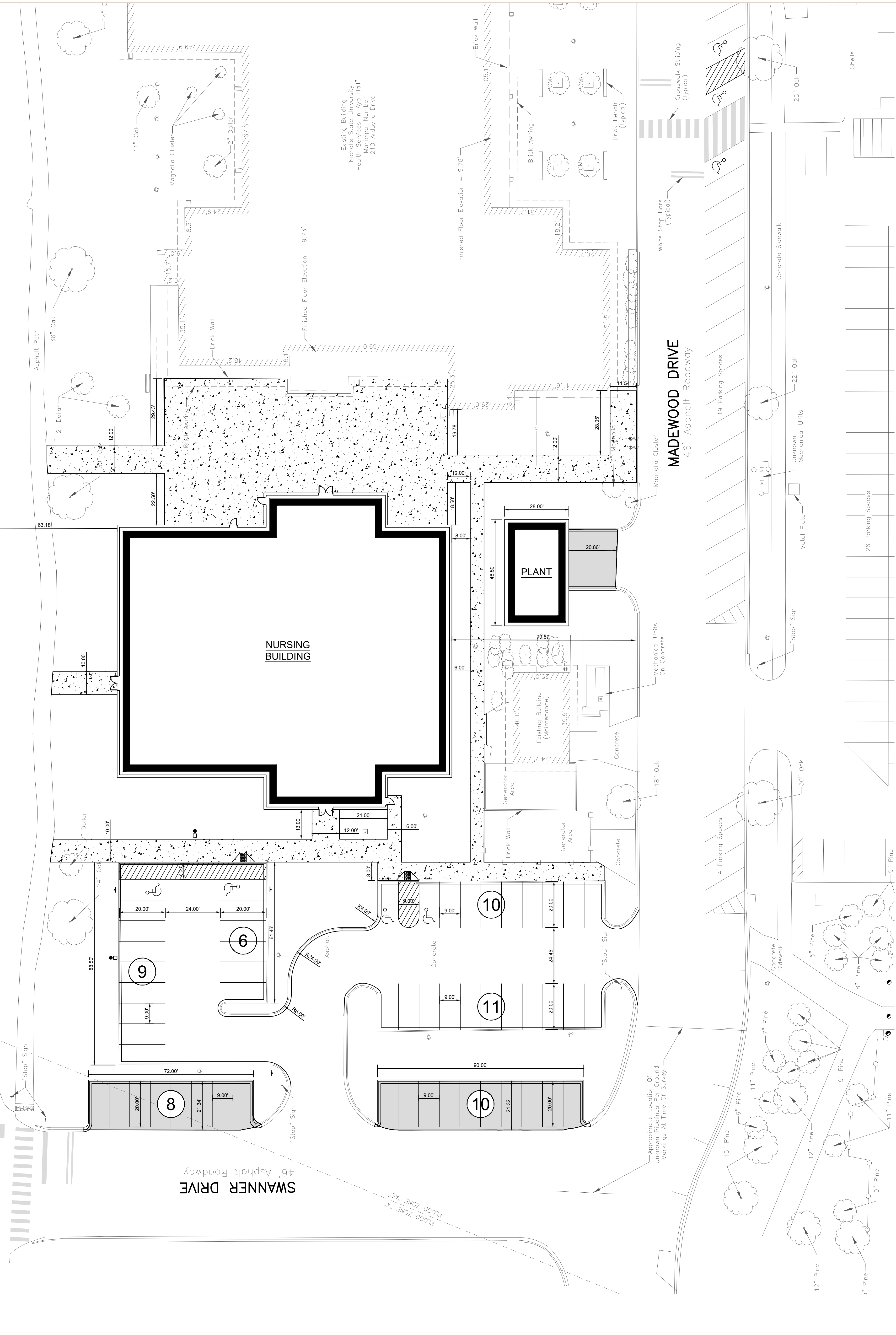
Single White Solid Line
Single Yellow Dashed Line
Single White Solid Line

Speed Limit 25 MPH/
No Parking Sign

Stop Sign

Stop Sign

Stop Sign



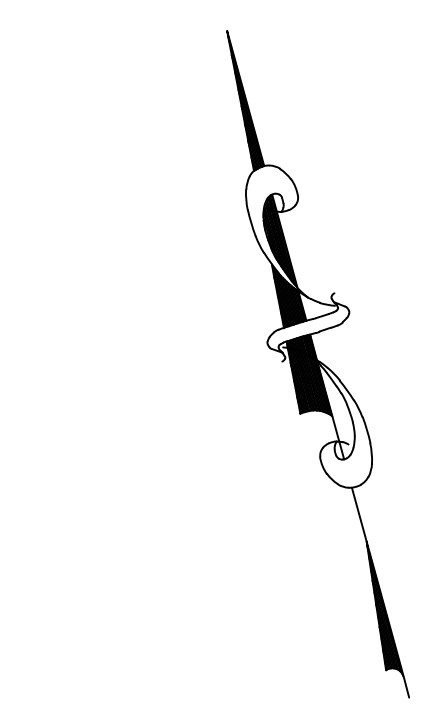
SITE PLAN NOTES:

- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS & DIMENSIONS OF BUILDING, ARCHITECTURE, SIDEWALKS, EXIT PORCHES, RAMPS, TRUCK DOCKS, & EXACT BUILDING UTILITY SERVICE ENTRANCE LOCATIONS AT THE BUILDING.
- ALL UNSURFACED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH, OR SOIL, & WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED AS INDICATED ON THE LANDSCAPING PLAN.
- PROPERTY & TOPOGRAPHIC SURVEY WAS PREPARED ON JULY 21, 2023 BY ACADIA LAND SURVEYING, LLC.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING BENCHMARK.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL FROM THE POWER & TELEPHONE COMPANIES FOR LOCATION & HEIGHT OF PYLON SIGN BEFORE CONDUIT & WIRING IS INSTALLED TO ENSURE PROPER CLEARANCES ARE MET.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO ALL EXISTING UTILITIES: STORM DRAINAGE, SIGNS, ETC. AS REQUIRED FOR WIDENING OF ALL ROADWAYS. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS & SHALL BE APPROVED BY SUCH.
- PRIOR TO THE START OF CONSTRUCTION ACTIVITIES THE CONTRACTOR MUST CALL 811 AND THE LOCAL UTILITY PROVIDERS TO HAVE ALL UTILITIES MARKED WITHIN THE PROJECT AREA. AFTER UTILITIES ARE MARKED, THE CONTRACTOR SHALL PERFORM A PLAN IN HAND WALK THRU OF THE ENTIRE PROJECT AREA AND SHALL CONTACT THE CIVIL ENGINEER IMMEDIATELY IF THERE ARE ANY DEVIATIONS IN THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS AND/OR THE PRESENCE OF UTILITIES THAT ARE NOT SHOWN IN THE PLANS.
- CONTRACTOR SHALL REFER TO ARCHITECT'S PLANS & SPECIFICATIONS FOR ENTRY LOCATION OF ALL WATER, SEWER SERVICE, ELECTRICAL, TELEPHONE & GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS & ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE REGULATORY AGENCY AS TO THE LOCATION & TIE-IN CONNECTIONS TO THEIR FACILITIES.
- ALL DIMENSIONS SHOWN TO BUILDING ARE TO OUTSIDE FACE OF BUILDING.
- THE EARTHWORK FOR ALL BUILDING FOUNDATIONS & SLABS SHALL BE IN ACCORDANCE WITH THE
- ALL NECESSARY PERMITS & APPROVALS FROM AGENCIES GOVERNING THE CONSTRUCTION OF THIS WORK SHALL BE SECURED PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL AREAS INDICATED TO REMAIN UNDISTURBED OR TO REMAIN AS BUFFERS AND ALL PROPERTY MARKERS. CONTRACTOR SHALL REPLACE ALL PINS ELIMINATED OR DAMAGED DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OR DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDERGROUND UTILITIES WITH HIS WORK. ALL UNDERGROUND UTILITIES WATER, SANITARY SEWER, STORM SEWER, ELECTRICAL CONDUIT, IRRIGATION SYSTEMS, & ANY OTHER MISC. UTILITIES SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF BASE COURSE MATERIAL, & THE PLACEMENT OF ANY APPROPRIATE SOIL STABILIZATION TECHNIQUE.
- CONTRACTOR SHALL MATCH EXISTING PAVEMENT IN GRADE & ALIGNMENT.
- ALL WORK SHOWN SHALL BE DONE IN ACCORDANCE WITH CONSTRUCTION DOCUMENTS.
- ALL STRIPING LOCATED ON SITE SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION UNLESS OTHERWISE NOTED. STRIPING IMPROVEMENTS LOCATED WITHIN THE ROAD RIGHT OF WAY SHALL COMPLY WITH THE REQUIREMENTS OF THE JURISDICTION.
- ANY WORK IN THE RIGHT OF WAY SHALL BE PERFORMED IN ACCORDANCE WITH LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT'S STANDARD DRAWINGS & SPECIFICATIONS.
- CONTRACTOR SHALL REMOVE PAVEMENT & CONCRETE IN ACCORDANCE WITH LOUISIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
- THE PROPERTIES SHOWN HEREIN ARE WITHIN ZONE X, ACCORDING TO FLOOD AREAS OF INSURANCE RATE MAPS PUBLISHED BY F.E.M.A. COMMUNITY PANEL NO. 230110005C DATED DECEMBER 15, 1989.

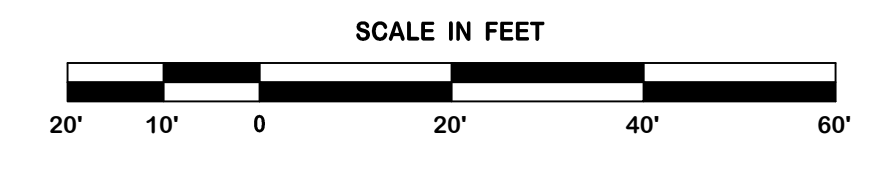
SITE LAYOUT NOTES:

- DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION LAYOUT BY SURVEY INCLUDING VERTICAL CONTROL. A CAD COPY OF THE PLANS WILL BE MADE AVAILABLE UPON REQUEST FOR USE IN LAYOUT.

LEGEND - NEW IMPROVEMENTS	
	PROPOSED BUILDING
	PROPOSED SIGN
	SIDEWALK PAVEMENT
	STANDARD DUTY PAVEMENT
	PROPOSED SITE LIGHTING
	CURB & GUTTER
	ADA RAMP
	PARKING SPACES



SITE PLAN



ARCHITECTURE	GROS FLORES POSITERRY, LLC 307 CANAL BLVD THIBODAUX, LA 70301 985-447-9931 P
CIVIL	DUPLANTIS DESIGN GROUP, PC 314 E. BAYOU ROAD THIBODAUX, LA 70301 (985) 447-2317 P
STRUCTURAL	BADÉAUX ENGINEERS 115 E. 8TH STREET THIBODAUX, LA 70301 (985) 447-2317 P (985) 447-2319 F
MECHANICAL	YKH CONSULTING, LLC 3701 HESSMER AVE METAIRIE, LA 70002 (504) 284-5111 P
ELECTRICAL	YKH CONSULTING, LLC 3701 HESSMER AVE METAIRIE, LA 70002 (504) 284-5111 P
OTHER	NONE
OTHER	NONE
OTHER	NONE



**NEW NURSING BUILDING
NICHOLLS STATE
UNIVERSITY**

THIBODAUX, LA
SCHEMATIC DESIGN

KEY PLAN
PLAN NORTH
TRUE NORTH

PROFESSIONAL SEAL

CLIENT		
NICHOLLS STATE UNIVERSITY		
PROJECT NUMBER		
2284		
DATE		
07/28/2023		
REVISIONS		
No.	Description	Date

SCHEMATIC DESIGN
SITE PLAN
C-1

ARCHITECTURE	GROS FLORES POSTERREY, LLC 307 CANAL BLVD THIBODAUX, LA 70301 985-441-9931 P
CIVIL	DUPLANTS DESIGN GROUP, PC 314 E. BAYOU ROAD THIBODAUX, LA 70301 985-441-0090 P
STRUCTURAL	BADAEUX ENGINEERS 115 E. 8TH STREET THIBODAUX, LA 70301 (985) 447-2317 P (985) 447-2319 F
MECHANICAL	YKH CONSULTING, LLC 3701 HESSMER AVE. METAIRIE, LA 70002 (504) 284-5111 P
ELECTRICAL	YKH CONSULTING, LLC 3701 HESSMER AVE. METAIRIE, LA 70002 (504) 284-5111 P
OTHER	NONE
OTHER	NONE
OTHER	NONE



**NEW NURSING BUILDING
NICHOLLS STATE
UNIVERSITY**
THIBODAUX, LA
SCHEMATIC DESIGN

KEY PLAN
PLAN NORTH
TRUE NORTH

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SCHEMATIC DESIGN
GRADING PLAN

C-2

GRADING NOTES:

- TOPOGRAPHIC INFORMATION WAS TAKEN FROM THE TOPOGRAPHIC SURVEY INCLUDED AS PART OF THESE CONSTRUCTION DOCUMENTS. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THE CONTRACTOR SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR & SUBMIT IT TO THE OWNER FOR REVIEW AND APPROVAL.
- EXISTING AND/OR PROPOSED GRADE CONTOURS ARE SHOWN AT ONE FOOT (1') INTERVALS.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION & ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES & WHERE POSSESSION OF MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE REQUIRED IMPROVEMENTS SHOWN ON THE PLANS.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES & NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY HORIZONTAL & VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, & ALL UTILITIES PRIOR TO CONSTRUCTION. PRIOR TO ORDERING STORM DRAIN STRUCTURES, THE CONTRACTOR SHALL VERIFY THE INVERT OF THE EXISTING STORM DRAIN SYSTEM AT THE TIE IN POINT(S) AND NOTIFY THE CIVIL ENGINEER OF ANY DEVIATION TO WHAT IS SHOWN ON THE PLANS.
- CLEARING & GRUBBING LIMITS SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UNDISTURBED AREAS, ALL PROPERTY CORNERS & REPLACING ALL PROPERTY CORNER MARKERS ELIMINATED OR DAMAGED DURING CONSTRUCTION.
- THE EARTHWORK FOR ALL PAVEMENT AREAS OUTSIDE OF THE BUILDING FOUNDATIONS & SLABS SHALL BE IN ACCORDANCE WITH THE SITE PREPARATION NOTES.
- THE EARTHWORK FOR THE BUILDING FOUNDATION AND UP TO 5' BEYOND SHALL BE IN ACCORDANCE WITH CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARD OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION & TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, & OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT NOT LIMITED TO, ACCESS & EGRESS FROM ALL EXCAVATION & TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
- SEE SHEET C-1 FOR GENERAL NOTES.
- THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING VERTICAL CONTROL INCLUDING THE SETTING OF CONSTRUCTION BENCHMARKS.
- DUE TO CONTINUAL CHANGES TO FLOOD MAPS THE CONTRACTOR SHALL CONTACT THE PERMIT AUTHORITY PRIOR TO THE START OF CONSTRUCTION AND CONFIRM THE NEED (OR LACK OF) FOR AN ELEVATION CERTIFICATE AND SHALL NOTIFY THE OWNER AND CIVIL ENGINEER IF THE MINIMUM REQUIRED FINISH FLOOR ELEVATION OF THE BUILDING IS HIGHER THAN WHAT IS SHOWN ON THE PLANS.
- ADEQUATE DRAINAGE MEASURES MUST BE ESTABLISHED, MAINTAINED, AND TEMPORARILY ADJUSTED AS NEEDED THROUGHOUT CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE AT ALL TIMES AND PREVENT ACCUMULATION OF SURFACE WATER. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SUBGRADE CONDITIONS AND PROTECTING THE CONDITION OF PREVIOUS WORK.
- DEWATERING GROUNDWATER LEVELS CAN FLUCTUATE DEPENDING ON TIME OF YEAR. THE CONTRACTOR SHALL INCLUDE PROVISIONS IN THEIR BASE BID FOR WATER CONTROL DURING CONSTRUCTION INCLUDING (BUT NOT LIMITED TO) DEEP EXCAVATIONS, EXCAVATION, PROTECTING ALL UTILITIES, FOUNDATION FOOTING WORK, PLACEMENT OF FILL, AND INSTALLATION OF SUB-SURFACE IMPROVEMENTS.

STORM DRAINAGE NOTES:

- ALL PIPES ENTERING STORM SEWER STRUCTURES SHALL BE SEALED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
- ALL PIPES & STRUCTURES ON STREET RIGHT-OF-WAY SHALL BE PER LOUISIANA DEPARTMENT OF TRANSPORTATION STANDARDS & SPECIFICATIONS.
- REFERENCE DETAIL SHEETS FOR CONSTRUCTION DETAILS.

PIPE NOTES:

- IN THE DRAINAGE CHART, THE "PIPE TYPE" COLUMN DEFINES THE SIZE & MATERIAL TYPE OF THE PIPE. WHERE A SPECIFIC PIPE TYPE IS CALLED FOR, THAT SPECIFIC PIPE TYPE MUST BE UTILIZED. WHERE AN ASTERISK (*) IS SPECIFIED, THE CONTRACTOR MAY UTILIZE ANY ONE OF THE PIPE TYPES LISTED BELOW. THE #S LISTED REFER TO THE FOLLOWING PIPE TYPES:
- REINFORCED CONCRETE PIPE (RCP/RCPA)
 - HIGH DENSITY POLYETHYLENE PIPE (HDPE OR CPP)
 - POLYVINYL CHLORIDE PIPE (PVC)
 - CORRUGATED METAL PIPE (CMP) OF NEXT HIGHER SIZE (+6")

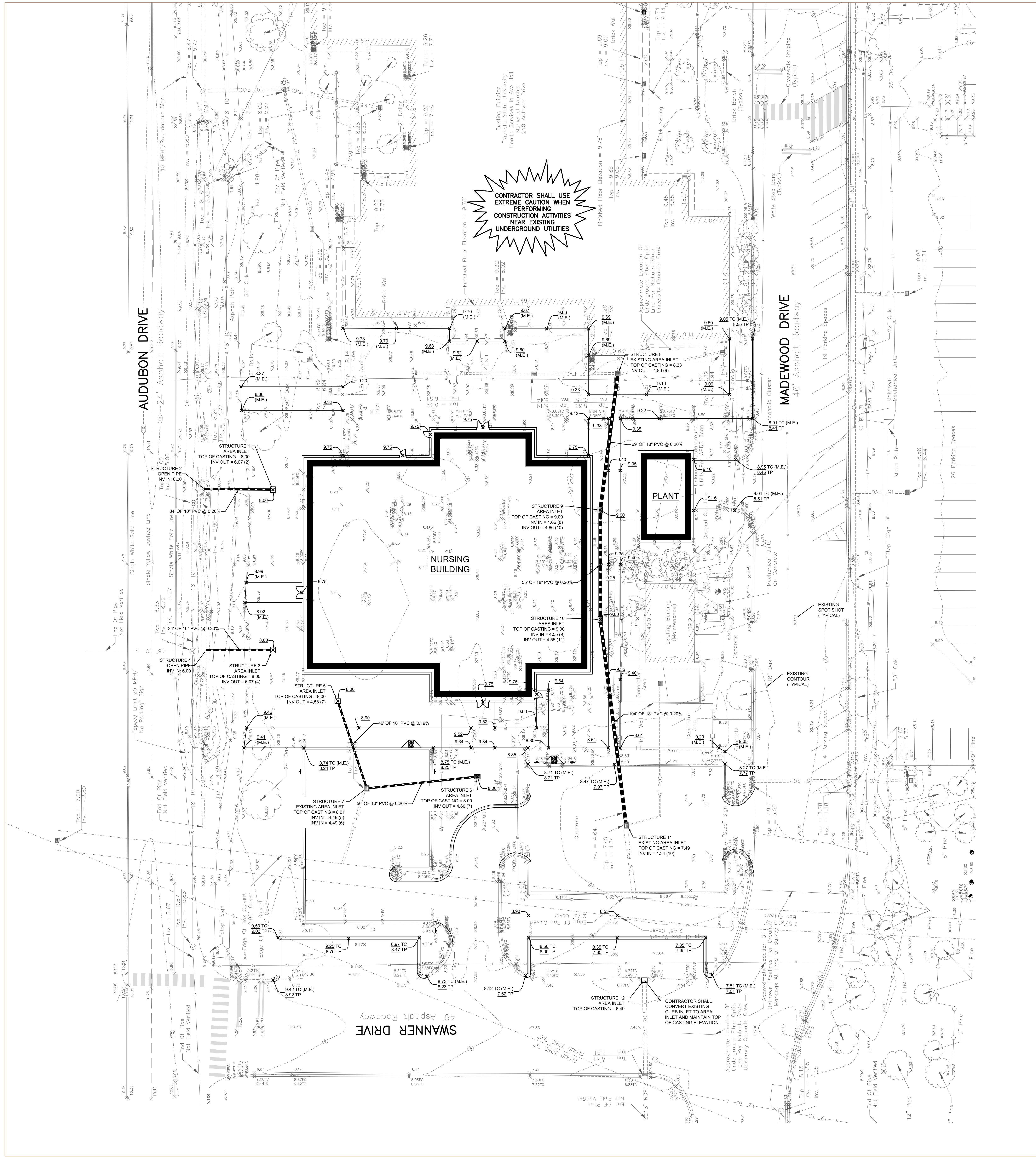
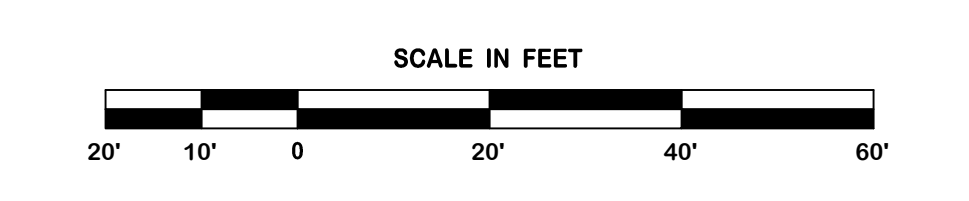
- NOTES:**
- PRIOR TO UTILIZING THIS PIPE OPTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THAT THE CMP PIPE HAS ADEQUATE COVER PER THE MANUFACTURER'S RECOMMENDATIONS.
 - THE CONTRACTOR SHALL SUBMIT BUOYANCY CALCULATIONS ON ALL RUNS OF PIPE THAT DO NOT UTILIZE CONCRETE PIPE. BUOYANCY CALCULATIONS SHALL BE PREPARED, SIGNED, & SEALED BY A REGISTERED ENGINEER. SHALL REPRESENT ACTUAL FIELD CONDITIONS, & SHALL DEMONSTRATE THAT THE PIPE UTILIZED WILL NOT BECOME BUOYANT UNDER ANY CONDITIONS. THE CONTRACTOR MAY ELECT TO PROVIDE A RESTRAINING SYSTEM, DESIGNED BY A REGISTERED ENGINEER, ADEQUATE TO RESIST BUOYANT FORCES WHERE NECESSARY.

LEGEND - NEW IMPROVEMENTS

PROPOSED GRADE	✱ 8.00	DIRECTION OF OVERLAND FLOW	→ S
PROPOSED GRADE (MATCH EXISTING)	✱ 9.33 (M.E.)	CATCH BASIN	▣
PROPOSED GRADE (TOP OF CURB)	✱ 9.33 T.C.	PROPOSED STORM DRAIN	▬
PROPOSED GRADE (TOP OF PAVEMENT)	✱ 9.33 T.P.	PROPOSED CURB INLET	■

**CONTRACTOR SHALL CONTACT
811 FOR LOCATION OF ALL
UTILITIES. AT LEAST 72 HOURS
PRIOR TO BEGINNING
CONSTRUCTION**

GRADING PLAN



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ARCHITECTURE	GROS FLORES POSTTERRY, LLC 307 CANAL BLVD THIBODAUX, LA 70301 985-447-9931 P
CIVIL	DUPLANTS DESIGN GROUP, PC 314 E BAYOU ROAD THIBODAUX, LA 70301 (985) 447-0090 P
STRUCTURAL	BADAEUX ENGINEERS 115 E 6TH STREET THIBODAUX, LA 70301 (985) 447-2317 P (985) 447-2319 F
MECHANICAL	YKH CONSULTING, LLC 3701 HESSMER AVE METAIRIE, LA 70002 (504) 284-5111 P
ELECTRICAL	YKH CONSULTING, LLC 3701 HESSMER AVE METAIRIE, LA 70002 (504) 284-5111 P
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OTHER	NONE



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KEY PLAN
PLAN NORTH
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SCHEMATIC DESIGN

UTILITY PLAN

C-3

- UTILITY NOTES:**
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES & NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.
 - THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION &/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES &, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
 - CONTRACTOR SHALL VERIFY HORIZONTAL & VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, & ALL UTILITIES PRIOR TO CONSTRUCTION.
 - CONTRACTOR TO REMOVE OR RELOCATE WHEN APPLICABLE, ALL EXISTING BUILDINGS, FOUNDATIONS, EASEMENTS, & CONNECTING IMPROVEMENTS, DRAIN PIPES, SANITARY SEWER PIPE, POWER POLES & GUY WIRES, WATER METERS & WATER LINES, WELLS, SIDEWALKS, SIGN POLES, UNDERGROUND GAS, SEPTIC TANKS, & ASPHALT, SHOWN & NOT SHOWN, WITHIN CONSTRUCTION LIMITS & WHERE NEEDED, TO ALLOW FOR FILL MATERIAL, UNLESS OTHERWISE DENOTED, TO BE REMOVED AS UNCLASSIFIED EXCAVATION.
 - CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
 - CONTRACTOR SHALL REFER TO ARCHITECT'S PLANS & SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC & FIRE PROTECTION WATER SERVICE, ELECTRICAL, TELEPHONE, CABLE TV, & GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS & ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH CITY UTILITY REQUIREMENTS AS TO LOCATIONS & SCHEDULING FOR THE INS-CONNECTIONS PRIOR TO CONNECTING EXISTING FACILITIES.
 - CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS, POWER COMPANY, & TELEPHONE COMPANY FOR ACTUAL ROUTING OF POWER & TELEPHONE SERVICE TO BUILDING.
 - CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES & BE CONSTRUCTED TO SAME.
 - SEE SPECIFICATIONS & DETAIL SHEETS FOR BACKFILLING & COMPACTION REQUIREMENTS ON UTILITY TRENCHES.
 - CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARD OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION & TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, & OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT NOT LIMITED TO, ACCESS & EGRESS FROM ALL EXCAVATION & TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
 - SITING FOR THIS PROJECT SHALL MEET OR EXCEED THE STANDARD SITING SPECIFICATIONS.
 - CONTRACTOR SHALL COORDINATE WITH OTHER UTILITIES TO ASSURE PROPER DEPTH & PREVENT ANY CONFLICT OF UTILITIES.
 - THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER & SEWER LINE IS TEN (10) FEET, OR MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER & SEWER LINE IS EIGHTEEN (18) INCHES.
 - CONTRACTOR SHALL GROUT AROUND ALL PIPE ENTRANCES TO SANITARY SEWER MANHOLES WITH NON-SHRINKING GROUT TO ASSURE CONNECTION IS WATER TIGHT.
 - CONTRACTOR SHALL ON ALL UTILITIES, COORDINATE INSPECTION WITH THE APPROPRIATE AUTHORITIES PRIOR TO COVERING TRENCHES AT INSTALLATION.
 - CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES & REQUIREMENTS. THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY COMPANIES & OWNERS INSPECTING AUTHORITIES.
 - SEE CONTRACTOR TO COORDINATE PROPOSED RECONNECTION OF ALL UTILITIES WITH ARCHITECTURAL PLANS AS WELL AS UTILITY COMPANIES & BUILDING CONTRACTOR.
 - FOR GENERAL NOTES, SEE DRAWING C-1.
 - ALL NECESSARY INSPECTIONS &/OR CERTIFICATIONS REQUIRED BY CODES &/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION & THE FINAL CONNECTION OF SERVICES.

- WATER NOTES:**
- ALL WORK SHALL BE DONE TO THE CITY OF THIBODAUX STANDARD SPECIFICATIONS.
 - REFERENCE ARCHITECT'S PLANS FOR ALL BUILDING FIRE SERVICE & DOMESTIC SERVICE CONNECTION LOCATIONS.
 - CONTRACTOR SHALL CONSTRUCT WATER SERVICES AS SHOWN, & CONSTRUCT METERS, PITS, & INSTALL CHECK VALVE.
 - ALL SPRINKLER & DOMESTIC LEADS TO BUILDING SHALL END AT THE FACE OF BUILDING WALL, UNLESS NOTED, & SHALL BE PROVIDED WITH A TEMPORARY PLUG AT END FOR OTHERS TO REMOVE & EXTEND AS NECESSARY.
 - ALL VERTICAL BENDS ON WATER MAIN SHALL BE RESTRAINED WITH A MECHANICAL JOINT FITTING SUPPLIED WITH THE RETAINER GLANDS. ANY JOINTS 25 FEET OR LESS FROM EITHER SIDE OF VERTICAL BEND SHALL BE RESTRAINED WITH A RETAINER GLAND.
 - DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR FITTING.
 - ALL VALVES SHALL BE INSTALLED IN A CAST IRON VALVE BOX WITH COVER.
 - THRUST BLOCKS SHALL BE PROVIDED AT ALL HORIZONTAL BENDS, TEES, & FIRE HYDRANTS. SEE DETAIL.
 - THE MINIMUM COVER ON WATER MAINS SHALL BE 3 FEET.
 - PIPE SIZES 7" & SMALLER SHALL BE PVC. FITTINGS SHALL BE BRASS. SEE SPECIFICATIONS.
 - PIPE SIZES 8" & LARGER SHALL BE CAST IRON WATER PIPE. ALL FITTINGS 4" & LARGER SHALL BE CAST IRON CONFORMING TO ANSI & AWWA STANDARD SPECIFICATIONS.
 - GATE VALVES 3/4" THROUGH 3" SHALL BE BRONZE WEDGE TYPE GATE VALVE. VALVES SHALL HAVE NON-RISING STEM WITH SOLID TEE HEAD OPERATING NUT UNLESS NOTED OTHERWISE.
 - GATE VALVES 4" & LARGER SHALL BE CAST IRON GATE VALVE WITH PARALLEL DOUBLE DISC. VALVES SHALL HAVE MECHANICAL JOINT ENDS & NON-RISING STEM WITH SQUARE OPERATING NUT.

- TELEPHONE NOTES:**
- ALL PHONE LINE LOCATIONS ARE APPROXIMATE & SHOWN FOR COORDINATION PURPOSES ONLY. REFERENCE ARCHITECT'S PLANS FOR ALL BUILDING SERVICE CONNECTIONS.

- SANITARY SEWER NOTES:**
- ALL WORK SHALL BE DONE TO THE CITY OF THIBODAUX STANDARD SPECIFICATIONS.
 - REFERENCE ARCHITECT'S PLANS FOR ALL BUILDING SERVICE CONNECTIONS.
 - CONTRACTOR SHALL PAY ALL FEES & CHARGES PERTINENT TO SANITARY SEWER CONSTRUCTION & SHALL COORDINATE WITH CITY OF THIBODAUX PRIOR TO COMMENCING WITH CONSTRUCTION.
 - ALL STUB-OUTS & WYE LATERALS SHALL BE PLUGGED WITH A STANDARD TYPE PLUG.
 - SANITARY SEWER PIPE OF DIFFERENT MATERIAL SHALL BE JOINED BY A RUBBER SLEEVE WITH STAINLESS STEEL COUPLING, MADE FOR TRANSITIONS FROM ONE MATERIAL TO ANOTHER.
 - DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR TO CENTERLINE OF MANHOLE.
 - THE SANITARY SEWER PIPE MATERIAL SHALL BE PVC. SDR 35. SEWER PIPE UNLESS OTHERWISE NOTED ON PLAN.

- POWER NOTES:**
- REFERENCE ARCHITECT'S PLANS FOR ALL BUILDING SERVICE CONNECTIONS.
 - ALL PRIMARY & SECONDARY SERVICE LOCATIONS ARE APPROXIMATE & ARE SHOWN FOR COORDINATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE POWER COMPANY, TO DETERMINE EXACT LOCATION & RESPONSIBILITIES INCLUDING COST.

- GAS NOTES:**
- THE GAS COMPANY WILL INSTALL THE REQUIRED GAS MAIN FROM THE POINT OF CONNECTION TO & INCLUDING THE METER INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR THE GAS LINE INSTALLATION FROM THE METER TO THE BUILDING.

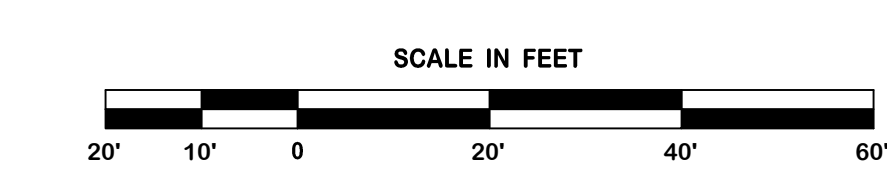
**CONTRACTOR SHALL CONTACT
811 FOR LOCATION OF ALL
UTILITIES, AT LEAST 72 HOURS
PRIOR TO BEGINNING
CONSTRUCTION**

**CONTRACTOR TO REFER TO NOTES AND
DETAILS SHEETS FOR ADDITIONAL
INFORMATION ASSOCIATED WITH THE
UTILITY IMPROVEMENTS**

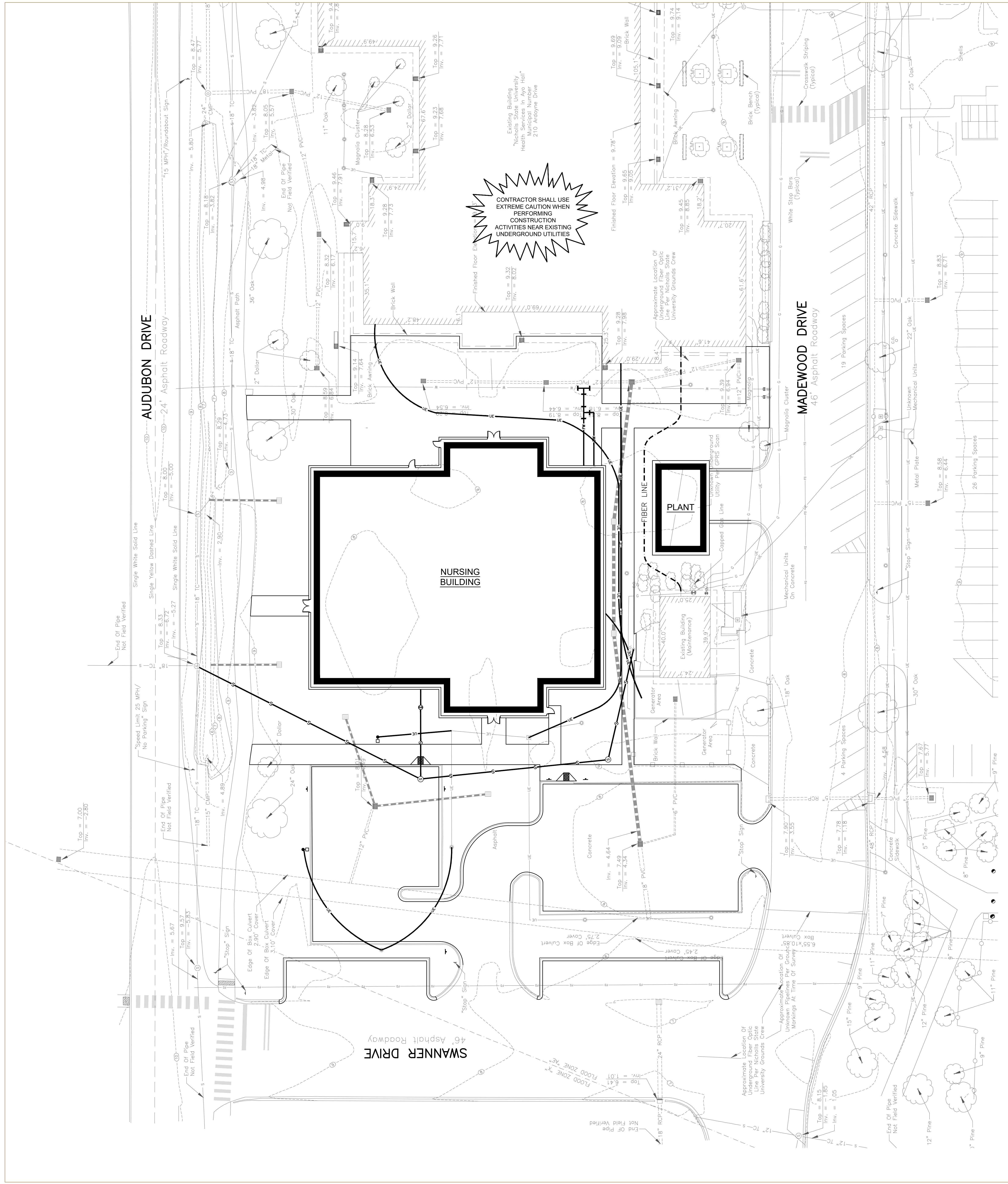
LEGEND - NEW IMPROVEMENTS

	UNDERGROUND ELECTRIC LINE
	GAS LINE
	WATER LINE
	UNDERGROUND FIBER OPTIC LINE
	SEWER LINE
	SEWER MANHOLE
	SEWER CLEANOUT
	LIGHT POLE

UTILITY PLAN



**CONTRACTOR SHALL USE
EXTREME CAUTION WHEN
PERFORMING
CONSTRUCTION
ACTIVITIES NEAR EXISTING
UNDERGROUND UTILITIES**



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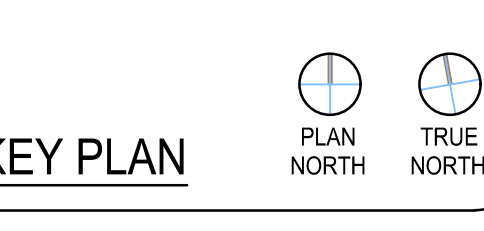
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ARCHITECTURE	GROS FLORES POSTERY, LLC 307 CANAL BLVD THIBODAUX, LA 70301 985-447-9931 P
CIVIL	DUPLANTS DESIGN GROUP, PC 314 E BAYOU ROAD THIBODAUX, LA 70301 (985) 447-0090 P
STRUCTURAL	BADAUX ENGINEERS 115 E 8TH STREET THIBODAUX, LA 70301 (985) 447-2317 P (985) 447-2319 F
MECHANICAL	YKH CONSULTING, LLC 3701 HESSMER AVE METAIRIE, LA 70002 (504) 284-5111 P
ELECTRICAL	YKH CONSULTING, LLC 3701 HESSMER AVE METAIRIE, LA 70002 (504) 284-5111 P
OTHER	NONE
OTHER	NONE
OTHER	NONE



**NEW NURSING BUILDING
NICHOLLS STATE
UNIVERSITY**

THIBODAUX, LA
SCHEMATIC DESIGN



PROFESSIONAL SEAL

CLIENT	NICHOLLS STATE UNIVERSITY	
PROJECT NUMBER	2284	
DATE	07/28/2023	
REVISIONS		
No.	Description	Date

**SCHEMATIC DESIGN
DEMOLITION PLAN (ALT)**

D-1

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE DISCONNECTION OF UTILITY SERVICES TO THE EXISTING BUILDINGS AND ACCESSORY STRUCTURES PRIOR TO DEMOLITION OF THE BUILDINGS.
2. THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE DISCONNECTION, REMOVAL, & OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY TO DETERMINE PORTIONS OF UTILITY WORK WILL BE PERFORMED BY THE UTILITY COMPANIES' FORCES & ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR UTILITY DISCONNECTION, REMOVALS, RELOCATIONS, AND PAYING ASSOCIATED FEES & CHARGES UNLESS OTHERWISE NOTED IN THE PLANS.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION & REMOVAL OF ALL BUILDINGS, STRUCTURES, PADS, WALLS, FENCES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC. TO FACILITATE THE CONSTRUCTION OF IMPROVEMENTS SHOWN ON THE REMAINING CONSTRUCTION DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS INVOLVED WITH DEMOLITION ACTIVITIES AND IS RESPONSIBLE FOR REMOVING & DISPOSAL OF THE DEBRIS IN AN APPROVED, LAWFUL MANNER. THE CONTRACTOR MAY NOT STORE DEMOLISHED MATERIAL ON-SITE UNLESS APPROVED IN WRITING BY THE OWNER.
4. EXISTING UTILITIES (INCLUDING METERS, VALVES, ETC.) BEING REMOVED SHALL BE REMOVED, TERMINATED & CAPPED AT THE PROPERTY LINE UNLESS OTHERWISE NOTED IN THE PLANS.
5. THE CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO THE EXISTING ADJACENT PROPERTIES AT ALL TIMES. IF UTILITY REMOVAL OR RELOCATION WILL AFFECT AN ADJACENT PROPERTY OWNER, THE CONTRACTOR SHALL COORDINATE WITH AFFECTED PARTIES & UTILITY COMPANIES PRIOR TO THE RELOCATION OR REMOVAL OF UTILITIES. UTILITY SERVICES SHALL NOT BE INTERRUPTED WITHOUT WRITTEN APPROVAL FROM THE AFFECTED END USER.
6. ALL AREAS WHERE PAVEMENT, STRUCTURE SLABS, FOUNDATIONS, UTILITIES, CONDUITS, UTILITY STRUCTURES, AND FACILITIES HAVE BEEN REMOVED SHALL BE BACKFILLED WITH COMPACTED SELECT BACKFILL MATERIAL. SELECT FILL MATERIAL SHALL BE PLACED & COMPACTED PER THE REQUIREMENTS OF SITE PREPARATION NOTES, APPLICABLE SPECIFICATIONS & THE OWNER'S GEOTECHNICAL ENGINEER.
7. EXISTING CAST IN PLACE SEPTIC TANKS SHALL BE PUMPED BY A LICENSED CONTRACTOR. THE SEPTIC TANK SHALL THEN BE BACKFILLED PER THE PROJECT SPECIFICATIONS. IF AN EXISTING CAST IN PLACE SEPTIC TANK IS LOCATED SUCH THAT IT CONFLICTS WITH THE REQUIRED FOUNDATION SYSTEM, THE SEPTIC TANK SHALL BE REMOVED. ALL WORK SHALL BE IN ACCORDANCE WITH HEALTH DEPARTMENT REQUIREMENTS.
8. EXISTING FENCES LOCATED IN THE PROJECT AREA SHALL BE DEMOLISHED & REMOVED UNLESS OTHERWISE NOTED.
9. EXISTING MANHOLES, DRAINAGE STRUCTURES & VALVE BOXES TO REMAIN IN PLACE SHALL BE ADJUSTED TO FINAL GRADES.
10. PRIOR TO ANY WORK ON-SITE, THE CONTRACTOR SHALL CONTACT THE LOUISIANA ONE CALL SYSTEM AT 1-800-273-3020 OR 811. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY REMOVALS.
11. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY.
12. ANY DAMAGE TO EXISTING IMPROVEMENTS TO REMAIN SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. REPLACEMENT AND REPAIRS MADE SHALL BE EQUAL TO OR BETTER THAN EXISTING.
13. THE CONTRACTOR SHALL CONTACT THE OWNER AT LEAST 72 HOURS PRIOR TO BEGINNING OF DEMOLITION OPERATIONS TO ENSURE ALL SALVAGEABLE MATERIAL DESIRED BY THE OWNER IS REMOVED FROM THE SITE.
14. PRIOR TO BEGINNING DEMOLITION, CONTRACTOR SHALL LOCATE AND MARK LIMITS OF CONSTRUCTION. NO CONSTRUCTION ACTIVITIES SHALL TAKE PLACE OUTSIDE OF THESE LIMITS.
15. THE CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION MEETING ON-SITE WITH ALL UTILITY COMPANIES IMMEDIATELY AFTER CONTRACT AWARD TO COORDINATE SCHEDULE FOR UTILITY REMOVAL AND RELOCATION.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE COMPLETE SCOPE OF THE DEMOLITION PROGRAM.
17. CONTRACTOR SHALL COORDINATE WITH OWNER TO DETERMINE IF ANY ITEMS BE SALVAGED OR REMOVED BY OTHERS PRIOR TO DEMOLITION.
18. ADEQUATE EROSION CONTROL DEVICES MUST BE INSTALLED PRIOR TO THE START OF DEMOLITION ACTIVITIES UNLESS OTHERWISE NOTED IN THE PLANS OR APPROVED IN WRITING BY THE ENGINEER.
19. PRIOR TO THE START OF DEMOLITION AND CONSTRUCTION ACTIVITIES THE CONTRACTOR MUST CALL 811 AND THE LOCAL UTILITY PROVIDERS TO HAVE ALL UTILITIES MARKED WITHIN THE PROJECT AREA. AFTER UTILITIES ARE MARKED, THE CONTRACTOR SHALL PERFORM A PLAN IN HAND WALK THRU OF THE ENTIRE PROJECT AREA AND SHALL CONTACT THE CIVIL ENGINEER IMMEDIATELY IF THERE ARE ANY DEVIATIONS IN THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS AND/OR THE PRESENCE OF UTILITIES THAT ARE NOT SHOWN IN THE PLANS.

NOTE:
THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING BID TO DETERMINE THE EXTENT OF REQUIRED DEMOLITION

NOTE:
THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ON-SITE LOCATIONS OF EXISTING UTILITIES.

GENERAL NOTES:

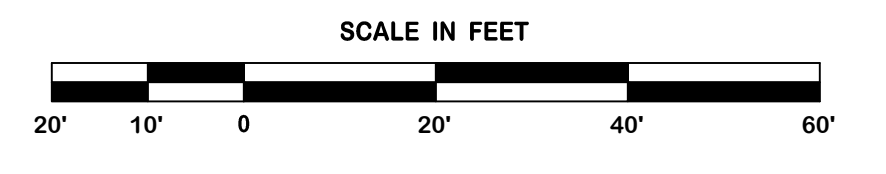
1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE TEMPORARY SUPPORT, STRUCTURAL INTEGRITY & STABILITY OF EXISTING STRUCTURES & SLOPES DURING ALL PHASES OF CONSTRUCTION.
2. CONTRACTOR SHALL PROVIDE ADEQUATE LATERAL SUPPORT TO THE SUBGRADE OF ALL EXISTING ADJACENT FOUNDATIONS & PAVEMENT DURING ALL PHASES OF CONSTRUCTION TO PREVENT UNDERMINING.
3. EXISTING CONDITIONS SHOWN ON THESE PLANS WERE OBTAINED FROM SURVEY PREPARED FOR THIS PROJECT. ALL EXISTING DIMENSIONS, ELEVATIONS, FOUNDATIONS & GENERAL BUILDING INFORMATION SHALL BE FIELD VERIFIED BEFORE PURCHASE OF MATERIALS & PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY EOR OF ANY DISCREPANCIES BETWEEN PROPOSED PLANS & EXISTING FIELD CONDITIONS IMMEDIATELY.
4. CONTRACTOR IS RESPONSIBLE FOR REPAIRING/REPLACING ANY DAMAGED ITEMS DURING ALL PHASES OF CONSTRUCTION AT NO COST TO THE OWNER OR WITHOUT AN EXTENSION OF CONTRACT TIME.
5. ALL EXCAVATED MATERIAL FROM THE PROJECT SITE SHALL BE DISPOSED AS REQUIRED BY OWNER.

LEGEND - NEW IMPROVEMENTS

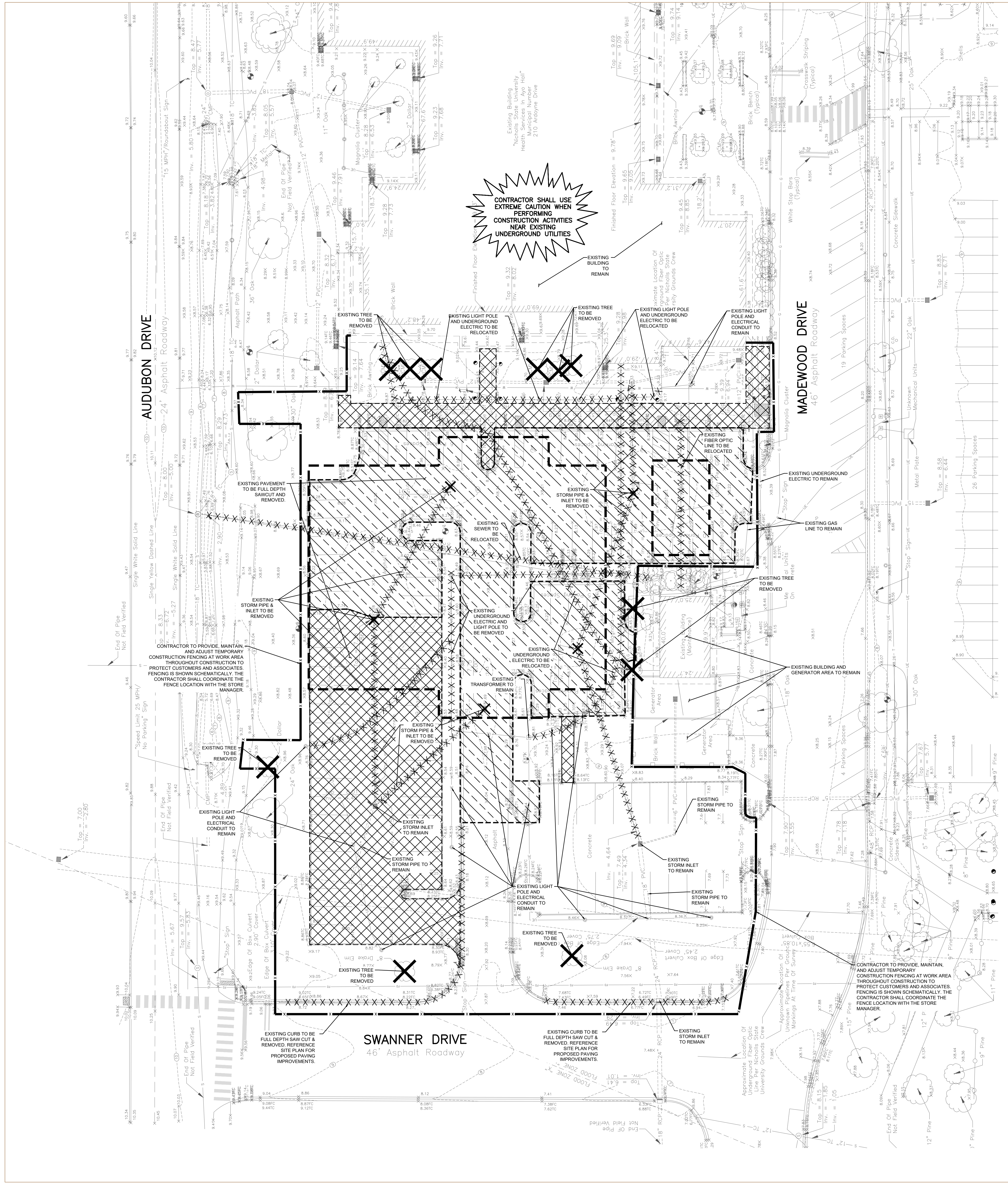
EXISTING SIGNAGE TO BE REMOVED	X	EXISTING DRAINAGE PIPE TO BE REMOVED	-X-X-X-
EXISTING POWER POLE TO BE REMOVED	X	EXISTING GAS LINE TO BE REMOVED	-X-X-X-
EXISTING LIGHT POLE TO BE REMOVED	X	EXISTING SEWER PIPE TO BE REMOVED	-X-X-X-
TEMPORARY CONSTRUCTION FENCE	---	EXISTING UNDERGROUND ELECTRICAL CONDUIT TO BE REMOVED	-X-X-X-
PORTION OF EXISTING ASPHALT PAVEMENT TO BE REMOVED	XXXXXX	EXISTING SEWER CLEANOUT TO BE REMOVED	X
PORTION OF EXISTING CONCRETE PAVEMENT TO BE REMOVED	XXXXXX	EXISTING CATCH BASIN/DROP INLET TO BE REMOVED	X
EXISTING CURB & GUTTER TO BE REMOVED	X-X-X	EXISTING TREE TO BE REMOVED (REMOVAL INCLUDES STUMP AND ROOTS)	X

CONTRACTOR SHALL CONTACT 811 FOR LOCATION OF ALL UTILITIES, AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION

DEMOLITION PLAN (ALT)



CONTRACTOR SHALL USE EXTREME CAUTION WHEN PERFORMING CONSTRUCTION ACTIVITIES NEAR EXISTING UNDERGROUND UTILITIES



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ARCHITECTURE	GROS FLORES POSTERY, LLC 307 CANAL BLVD THIBODAUX, LA 70301 985-447-9931 P
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STRUCTURAL	BADÉAUX ENGINEERS 115 E. 8TH STREET THIBODAUX, LA 70301 (985) 447-2319 F
MECHANICAL	YKH CONSULTING, LLC 3701 HESSMER AVE. METAIRIE, LA 70002 (504) 284-5111 P
ELECTRICAL	YKH CONSULTING, LLC 3701 HESSMER AVE. METAIRIE, LA 70002 (504) 284-5111 P
OTHER	NONE
OTHER	NONE
OTHER	NONE



**NEW NURSING BUILDING
NICHOLLS STATE
UNIVERSITY**

THIBODAUX, LA
SCHEMATIC DESIGN

KEY PLAN

PLAN NORTH
TRUE NORTH

PROFESSIONAL SEAL

CLIENT	NICHOLLS STATE UNIVERSITY	
PROJECT NUMBER	2284	
DATE	07/28/2023	
REVISIONS		
No.	Description	Date

SCHEMATIC DESIGN
GRADING PLAN (ALT)

C-2

GRADING NOTES:

- TOPOGRAPHIC INFORMATION WAS TAKEN FROM THE TOPOGRAPHIC SURVEY INCLUDED AS PART OF THESE CONSTRUCTION DOCUMENTS. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THE CONTRACTOR SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR & SUBMIT IT TO THE OWNER FOR REVIEW AND APPROVAL.
- EXISTING AND/OR PROPOSED GRADE ON RECORDS OF THE VARIOUS UTILITY COMPANIES & WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE REQUIRED IMPROVEMENTS SHOWN ON THE PLANS.
- CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION & OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES & WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE REQUIRED IMPROVEMENTS SHOWN ON THE PLANS.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES & NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY HORIZONTAL & VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, & ALL UTILITIES PRIOR TO CONSTRUCTION. PRIOR TO ORDERING STORM DRAIN STRUCTURES, THE CONTRACTOR SHALL VERIFY THE INVERT OF THE EXISTING STORM DRAIN SYSTEM AT THE TIE IN POINT(S) AND NOTIFY THE CIVIL ENGINEER OF ANY DEVIATION TO WHAT IS SHOWN ON THE PLANS.
- CLEARING & GRUBBING LIMITS SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UNDISTURBED AREAS, ALL PROPERTY CORNERS & REPLACING ALL PROPERTY CORNER MARKERS ELIMINATED OR DAMAGED DURING CONSTRUCTION.
- THE EARTHWORK FOR ALL PAVEMENT AREAS OUTSIDE OF THE BUILDING FOUNDATIONS & SLABS SHALL BE IN ACCORDANCE WITH THE SITE PREPARATION NOTES.
- THE EARTHWORK FOR THE BUILDING FOUNDATION AND UP TO 5' BEYOND SHALL BE IN ACCORDANCE WITH CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARD OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION & TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, & OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT NOT LIMITED TO, ACCESS & EGRESS FROM ALL EXCAVATION & TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
- SEE SHEET C-1 FOR GENERAL NOTES.
- THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING VERTICAL CONTROL INCLUDING THE SETTING OF CONSTRUCTION BENCHMARKS.
- DUE TO CONTINUAL CHANGES TO FLOOD MAPS THE CONTRACTOR SHALL CONTACT THE PERMIT AUTHORITY PRIOR TO THE START OF CONSTRUCTION AND CONFIRM THE NEED (OR LACK OF) FOR AN ELEVATION CERTIFICATE AND SHALL NOTIFY THE OWNER AND CIVIL ENGINEER IN THE MINIMUM REQUIRED FINISH FLOOR ELEVATION OF THE BUILDING IS HIGHER THAN WHAT IS SHOWN ON THE PLANS.
- ADEQUATE DRAINAGE MEASURES MUST BE ESTABLISHED, MAINTAINED, AND TEMPORARILY ADJUSTED AS NEEDED THROUGHOUT CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE AT ALL TIMES AND PREVENT ACCUMULATION OF SURFACE WATER. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SUBGRADE CONDITIONS AND PROTECTING THE CONDITION OF PREVIOUS WORK.
- DEWATERING GROUNDWATER LEVELS CAN FLUCTUATE DEPENDING ON TIME OF YEAR. THE CONTRACTOR SHALL INCLUDE PROVISIONS IN THEIR BASE BID FOR WATER CONTROL DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO DEEP EXCAVATIONS INCLUDING ALL UTILITIES, FOUNDATION FOOTING WORK, PLACEMENT OF FILL, AND INSTALLATION OF SUB-SURFACE IMPROVEMENTS.

STORM DRAINAGE NOTES:

- ALL PIPES ENTERING STORM SEWER STRUCTURES SHALL BE SEALED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
- ALL PIPES & STRUCTURES ON STREET RIGHT-OF-WAY SHALL BE PER LOUISIANA DEPARTMENT OF TRANSPORTATION STANDARDS & SPECIFICATIONS.
- REFERENCE DETAIL SHEETS FOR CONSTRUCTION DETAILS.

PIPE NOTES:

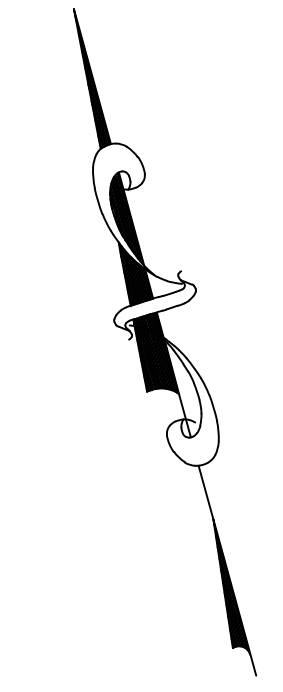
- IN THE DRAINAGE CHART, THE "PIPE TYPE" COLUMN DEFINES THE SIZE & MATERIAL TYPE OF THE PIPE. WHERE A SPECIFIC PIPE TYPE IS CALLED FOR, THAT SPECIFIC PIPE TYPE MUST BE USED. WHERE AN ASTERISK (*) IS SPECIFIED THE CONTRACTOR MAY UTILIZE ANY ONE OF THE PIPE TYPES LISTED BELOW. THE #S LISTED REFER TO THE FOLLOWING PIPE TYPES:
- REINFORCED CONCRETE PIPE (RCP/RCPA)
 - HIGH DENSITY POLYETHYLENE PIPE (HDPE OR CPP)
 - POLYVINYL CHLORIDE PIPE (PVC)
 - CORRUGATED METAL PIPE (CMP) OF NEXT HIGHER SIZE (+6")

- NOTES:**
- PRIOR TO UTILIZING THIS PIPE OPTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THAT THE CMP PIPE HAS ADEQUATE COVER PER THE MANUFACTURER'S RECOMMENDATIONS.
 - THE CONTRACTOR SHALL SUBMIT BUOYANCY CALCULATIONS ON ALL RUNS OF PIPE THAT DO NOT UTILIZE CONCRETE PIPE. BUOYANCY CALCULATIONS SHALL BE PREPARED, SIGNED, & SEALED BY A REGISTERED ENGINEER. SHALL REPRESENT ACTUAL FIELD CONDITIONS, & SHALL DEMONSTRATE THAT THE PIPE UTILIZED WILL NOT BECOME BUOYANT UNDER ANY CONDITIONS. THE CONTRACTOR MAY ELECT TO PROVIDE A RESTRAINING SYSTEM, DESIGNED BY A REGISTERED ENGINEER, ADEQUATE TO RESIST BUOYANT FORCES WHERE NECESSARY.

LEGEND - NEW IMPROVEMENTS

PROPOSED GRADE	★ 8.00	DIRECTION OF OVERLAND FLOW	→ S
PROPOSED GRADE (MATCH EXISTING)	★ 9.33 (M.E.)	CATCH BASIN	■
PROPOSED GRADE (TOP OF CURB)	★ 9.33 T.C.	PROPOSED STORM DRAIN	▬
PROPOSED GRADE (TOP OF PAVEMENT)	★ 9.33 T.P.	PROPOSED CURB INLET	■

CONTRACTOR SHALL CONTACT
811 FOR LOCATION OF ALL
UTILITIES, AT LEAST 72 HOURS
PRIOR TO BEGINNING
CONSTRUCTION

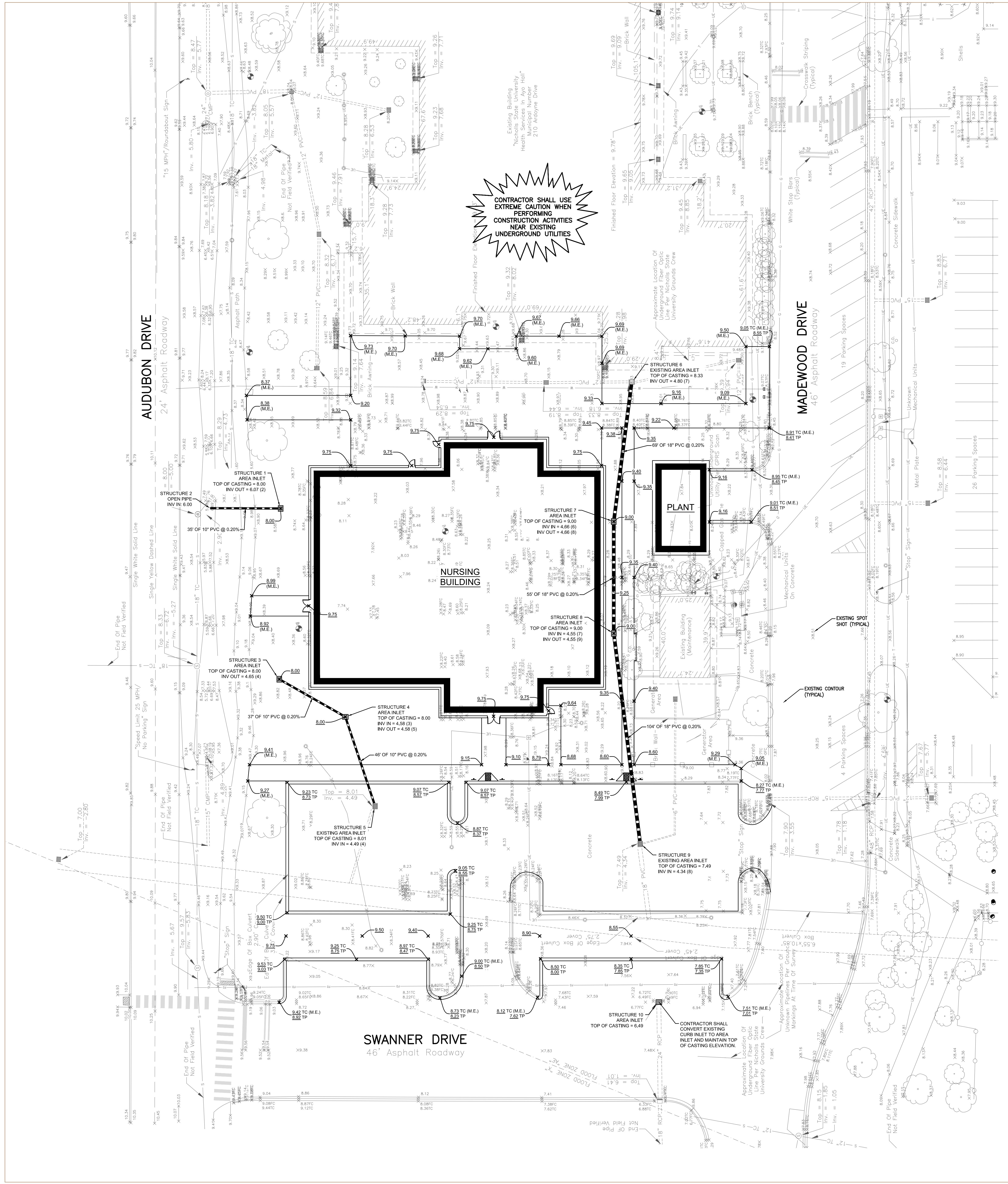


**GRADING PLAN
(ALT)**

SCALE IN FEET

20' 10' 0' 20' 40' 60'

CONTRACTOR SHALL USE
EXTREME CAUTION WHEN
PERFORMING
CONSTRUCTION ACTIVITIES
NEAR EXISTING
UNDERGROUND UTILITIES



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ARCHITECTURE	GROS FLORES POSTERRRY, LLC 307 CANAL BLVD THIBODAUX, LA 70301 985-447-9931 P
CIVIL	DUPLANTS DESIGN GROUP, PC 314 E BAYOU ROAD THIBODAUX, LA 70301 985-447-0090 P
STRUCTURAL	BADÉAUX ENGINEERS 115 E 6TH STREET THIBODAUX, LA 70301 (985) 447-2317 P (985) 447-2319 F
MECHANICAL	YKH CONSULTING, LLC 3701 HESSMER AVE METAIRIE, LA 70002 (504) 284-5111 P
ELECTRICAL	YKH CONSULTING, LLC 3701 HESSMER AVE METAIRIE, LA 70002 (504) 284-5111 P
OTHER	NONE
OTHER	NONE
OTHER	NONE



**NEW NURSING BUILDING
NICHOLLS STATE
UNIVERSITY**

THIBODAUX, LA
SCHEMATIC DESIGN

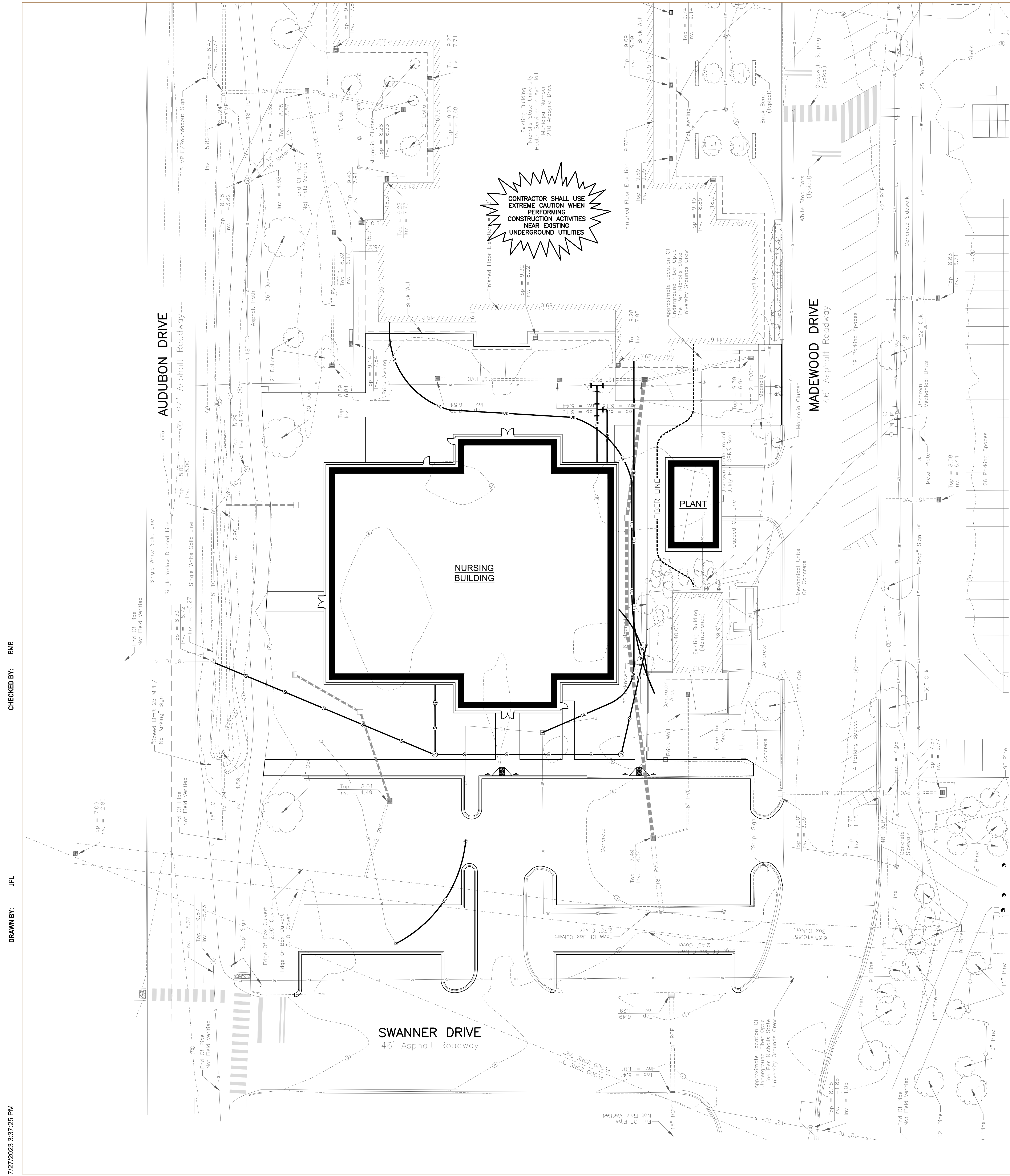
KEY PLAN
PLAN NORTH
TRUE NORTH

PROFESSIONAL SEAL

CLIENT	NICHOLLS STATE UNIVERSITY	
PROJECT NUMBER	2284	
DATE	07/28/2023	
REVISIONS		
No.	Description	Date

SCHEMATIC DESIGN
UTILITY PLAN (ALT)

C-3



UTILITY NOTES:

- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES & NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION &/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES &, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- CONTRACTOR SHALL VERIFY HORIZONTAL & VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, & ALL UTILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR TO REMOVE OR RELOCATE WHEN APPLICABLE, ALL EXISTING BUILDINGS, FOUNDATIONS, EASEMENTS, & CONNECTING IMPROVEMENTS, DRAIN PIPES, SANITARY SEWER PIPE, POWER POLES & GUY WIRES, WATER METERS & WATER LINES, WELLS, SIDEWALKS, SIGN POLES, UNDERGROUND GAS, SEPTIC TANKS, & ASPHALT, SHOWN & NOT SHOWN, WITHIN CONSTRUCTION LIMITS & WHERE NEEDED, TO ALLOW FOR FILL MATERIAL, UNLESS OTHERWISE DENOTED, TO BE REMOVED AS UNCLASSIFIED EXCAVATION.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- CONTRACTOR SHALL REFER TO ARCHITECT'S PLANS & SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC & FIRE PROTECTION WATER SERVICE, ELECTRICAL, TELEPHONE, CABLE, TV, & GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS & ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH CITY UTILITY REQUIREMENTS AS TO LOCATIONS & SCHEDULING FOR THE INS-CONNECTIONS PRIOR TO CONNECTING EXISTING FACILITIES.
- CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS, POWER COMPANY, & TELEPHONE COMPANY FOR ACTUAL ROUTING OF POWER & TELEPHONE SERVICE TO BUILDING.
- CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES & BE CONSTRUCTED TO SAME.
- SEE SPECIFICATIONS & DETAIL SHEETS FOR BACKFILLING & COMPACTION REQUIREMENTS ON UTILITY TRENCHES.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARD OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION & TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, & OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT NOT LIMITED TO, ACCESS & EGRESS FROM ALL EXCAVATION & TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
- SITING FOR THIS PROJECT SHALL MEET OR EXCEED THE STANDARD SITING SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE WITH OTHER UTILITIES TO ASSURE PROPER DEPTH & PREVENT ANY CONFLICT OF UTILITIES.
- THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER & SEWER LINE IS TEN (10) FEET, OR MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER & SEWER LINE IS EIGHTEEN (18) INCHES.
- CONTRACTOR SHALL GROUT AROUND ALL PIPE ENTRANCES TO SANITARY SEWER MANHOLES WITH NON-SHRINKING GROUT TO ASSURE CONNECTION IS WATER TIGHT.
- CONTRACTOR SHALL ON ALL UTILITIES, COORDINATE INSPECTION WITH THE APPROPRIATE AUTHORITIES PRIOR TO COVERING TRENCHES AT INSTALLATION.
- CONTRACTOR SHALL COMPLY WITH ALL GOVERNING CODES & REQUIREMENTS. THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY COMPANIES & OWNERS INSPECTING AUTHORITIES.
- SEE CONTRACTOR TO COORDINATE PROPOSED RECONNECTION OF ALL UTILITIES WITH ARCHITECTURAL PLANS AS WELL AS UTILITY COMPANIES & BUILDING CONTRACTOR.
- FOR GENERAL NOTES SEE DRAWING C-1.
- ALL NECESSARY INSPECTIONS &/OR CERTIFICATIONS REQUIRED BY CODES &/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION & THE FINAL CONNECTION OF SERVICES.

WATER NOTES:

- ALL WORK SHALL BE DONE TO THE CITY OF THIBODAUX STANDARD SPECIFICATIONS.
- REFERENCE ARCHITECT'S PLANS FOR ALL BUILDING FIRE SERVICE & DOMESTIC SERVICE CONNECTION LOCATIONS.
- CONTRACTOR SHALL CONSTRUCT WATER SERVICES AS SHOWN, & CONSTRUCT METERS, PITS, & INSTALL CHECK VALVE.
- ALL SPRINKLER & DOMESTIC LEADS TO BUILDING SHALL END AT THE FACE OF BUILDING WALL, UNLESS NOTED, & SHALL BE PROVIDED WITH A TEMPORARY PLUG AT END FOR OTHERS TO REMOVE & EXTEND AS NECESSARY.
- ALL VERTICAL BENDS ON WATER MAIN SHALL BE RESTRAINED WITH A MECHANICAL JOINT FITTING SUPPLIED WITH THE RETAINER GLANDS. ANY JOINTS 25 FEET OR LESS FROM EITHER SIDE OF VERTICAL BEND SHALL BE RESTRAINED WITH A RETAINER GLAND.
- DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR FITTING.
- ALL VALVES SHALL BE INSTALLED IN A CAST IRON VALVE BOX WITH COVER.
- THRUST BLOCKS SHALL BE PROVIDED AT ALL HORIZONTAL BENDS, TEES, & FIRE HYDRANTS. SEE DETAIL.
- THE MINIMUM COVER ON WATER MAINS SHALL BE 3 FEET.
- PIPE SIZES 2" & SMALLER SHALL BE PVC. FITTINGS SHALL BE BRASS. SEE SPECIFICATIONS.
- PIPE SIZES 4" & LARGER SHALL BE PVC C-900 WATER PIPE. ALL FITTINGS 4" & LARGER SHALL BE CAST IRON CONFORMING TO ANSI & AWWA STANDARD SPECIFICATIONS.
- GATE VALVES 3/4" THROUGH 3" SHALL BE BRONZE WEDGE TYPE GATE VALVE. VALVES SHALL HAVE NON-RISING STEM WITH SOLID TEE HEAD OPERATING NUT UNLESS NOTED OTHERWISE.
- GATE VALVES 4" & LARGER SHALL BE CAST IRON GATE VALVE WITH PARALLEL DOUBLE DISC. VALVES SHALL HAVE MECHANICAL JOINT ENDS & NON-RISING STEM WITH SQUARE OPERATING NUT.

TELEPHONE NOTES:

- ALL PHONE LINE LOCATIONS ARE APPROXIMATE & SHOWN FOR COORDINATION PURPOSES ONLY. REFERENCE ARCHITECT'S PLANS FOR ALL BUILDING SERVICE CONNECTIONS.

SANITARY SEWER NOTES:

- ALL WORK SHALL BE DONE TO THE CITY OF THIBODAUX STANDARD SPECIFICATIONS.
- REFERENCE ARCHITECT'S PLANS FOR ALL BUILDING SERVICE CONNECTIONS.
- CONTRACTOR SHALL PAY ALL FEES & CHARGES PERTINENT TO SANITARY SEWER CONSTRUCTION & SHALL COORDINATE WITH CITY OF THIBODAUX PRIOR TO COMMENCING WITH CONSTRUCTION.
- ALL STUB-OUTS & WYE LATERALS SHALL BE PLUGGED WITH A STANDARD TYPE PLUG.
- SANITARY SEWER PIPE OF DIFFERENT MATERIAL SHALL BE JOINED BY A RUBBER SLEEVE WITH STAINLESS STEEL COUPLING, MADE FOR TRANSITIONS FROM ONE MATERIAL TO ANOTHER.
- DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR TO CENTERLINE OF MANHOLE.
- THE SANITARY SEWER PIPE MATERIAL SHALL BE PVC. SDR 35. SEWER PIPE UNLESS OTHERWISE NOTED ON PLAN.

POWER NOTES:

- REFERENCE ARCHITECT'S PLANS FOR ALL BUILDING SERVICE CONNECTIONS.
- ALL PRIMARY & SECONDARY SERVICE LOCATIONS ARE APPROXIMATE & ARE SHOWN FOR COORDINATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE POWER COMPANY, TO DETERMINE EXACT LOCATION & RESPONSIBILITIES INCLUDING COST.

GAS NOTES:

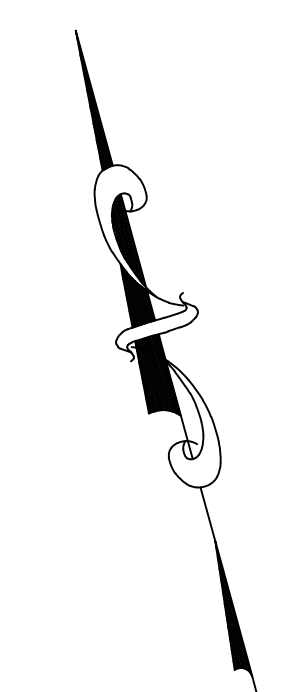
- THE GAS COMPANY WILL INSTALL THE REQUIRED GAS MAIN FROM THE POINT OF CONNECTION TO & INCLUDING THE METER INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR THE GAS LINE INSTALLATION FROM THE METER TO THE BUILDING.

CONTRACTOR SHALL CONTACT 811 FOR LOCATION OF ALL UTILITIES, AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION

CONTRACTOR TO REFER TO NOTES AND DETAILS SHEETS FOR ADDITIONAL INFORMATION ASSOCIATED WITH THE UTILITY IMPROVEMENTS

LEGEND - NEW IMPROVEMENTS

	UNDERGROUND ELECTRIC LINE
	GAS LINE
	WATER LINE
	UNDERGROUND FIBER OPTIC LINE
	SEWER LINE
	SEWER MANHOLE
	SEWER CLEANOUT
	LIGHT POLE



**UTILITY PLAN
(ALT)**

SCALE IN FEET
0 20 40 60

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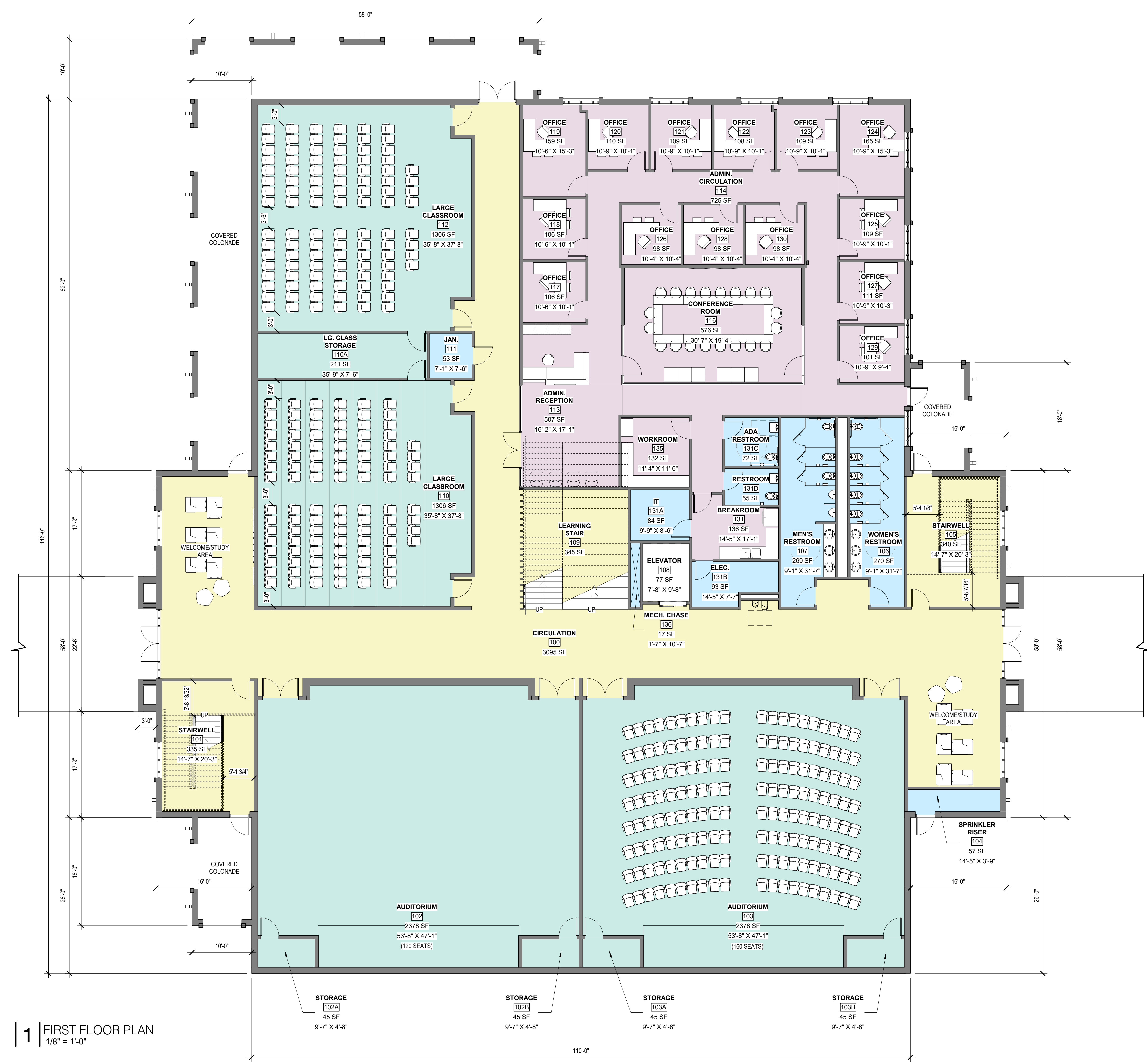
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ARCHITECTURE	GROS FLORES POSITERRY, LLC 307 CANAL BLVD THIBODAUX, LA 70301 985-447-9931 P
CIVIL	DUPLANTIS DESIGN GROUP, PC 314 E. BAYOU ROAD THIBODAUX, LA 70301 (985) 447-2000 P
STRUCTURAL	BADOUX ENGINEERS 115 E. 6TH STREET THIBODAUX, LA 70301 (985) 447-2317 P (985) 447-2319 F
MECHANICAL	YKH CONSULTING, LLC 3701 HESSMER AVE. METAIRIE, LA 70002 (504) 284-5111 P
ELECTRICAL	YKH CONSULTING, LLC 3701 HESSMER AVE. METAIRIE, LA 70002 (504) 284-5111 P
OTHER	NONE
OTHER	NONE
OTHER	NONE



**NEW NURSING BUILDING
NICHOLLS STATE
UNIVERSITY**
THIBODAUX, LA
SCHEMATIC DESIGN



1 FIRST FLOOR PLAN
1/8" = 1'-0"

GROSS FLOOR AREA

FIRST FLOOR:	17,800 SF
SECOND FLOOR:	16,505 SF
TOTAL:	34,305 SF

SPACE FUNCTION COLOR LEGEND

	CIRCULATION
	ADMINISTRATION
	CLASSROOMS
	SIMULATION LABS
	LAB SUPPORT
	NURSING SKILLS LABS
	SUPPORT/UTIL.



PROFESSIONAL SEAL

CLIENT	NICHOLLS STATE UNIVERSITY	
PROJECT NUMBER	2284	
DATE	07/28/2023	
REVISIONS		
No.	Description	Date

SCHEMATIC DESIGN

FIRST FLOOR PLAN

A1.00

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ARCHITECTURE	GROS FLORES POSITERRY, LLC 307 CANAL BLVD THIBODAUX, LA 70301 (985) 447-9931 P
CIVIL	DUPLANTIS DESIGN GROUP, PC 314 E. BAYOU ROAD THIBODAUX, LA 70301 (985) 447-2000 P
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ELECTRICAL	YKH CONSULTING, LLC. 3701 HESSMER AVE. METAIRIE, LA 70002 (504) 284-5111 P
OTHER	NONE
OTHER	NONE
OTHER	NONE



**NEW NURSING BUILDING
NICHOLLS STATE
UNIVERSITY**
THIBODAUX, LA
SCHEMATIC DESIGN

KEY PLAN
PLAN NORTH
TRUE NORTH

PROFESSIONAL SEAL

CLIENT	NICHOLLS STATE UNIVERSITY	
PROJECT NUMBER	2284	
DATE	07/28/2023	
REVISIONS		
No.	Description	Date

SCHEMATIC DESIGN

SECOND FLOOR PLAN

A1.01



1 | SECOND FLOOR PLAN
1/8" = 1'-0"

GROSS FLOOR AREA

FIRST FLOOR:	17,800 SF
SECOND FLOOR:	16,505 SF
TOTAL:	34,305 SF

SPACE FUNCTION COLOR LEGEND

- CIRCULATION
- ADMINISTRATION
- CLASSROOMS
- SIMULATION LABS
- LAB SUPPORT
- NURSING SKILLS LABS
- SUPPORT/UTIL.

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CIVIL	DUPLANTIS DESIGN GROUP, PC 314 E BAYOU ROAD THIBODAUX, LA 70301 (985) 447-2000 P
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ELECTRICAL	YKH CONSULTING, LLC. 3701 HESSMER AVE. METAIRIE, LA 70002 (504) 284-5111 P
OTHER	NONE
OTHER	NONE
OTHER	NONE



**NEW NURSING BUILDING
NICHOLLS STATE
UNIVERSITY**

THIBODAUX, LA
SCHEMATIC DESIGN

KEY PLAN

PLAN NORTH
TRUE NORTH

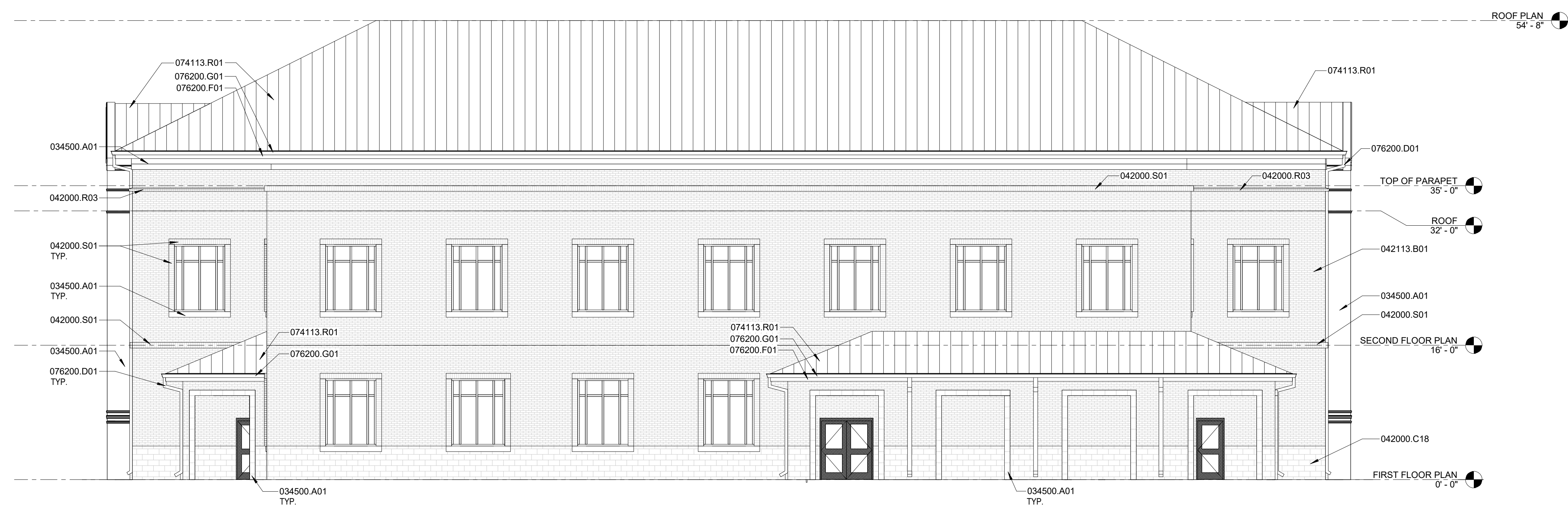
PROFESSIONAL SEAL

CLIENT	NICHOLLS STATE UNIVERSITY	
PROJECT NUMBER	2284	
DATE	07/28/2023	
REVISIONS		
No.	Description	Date

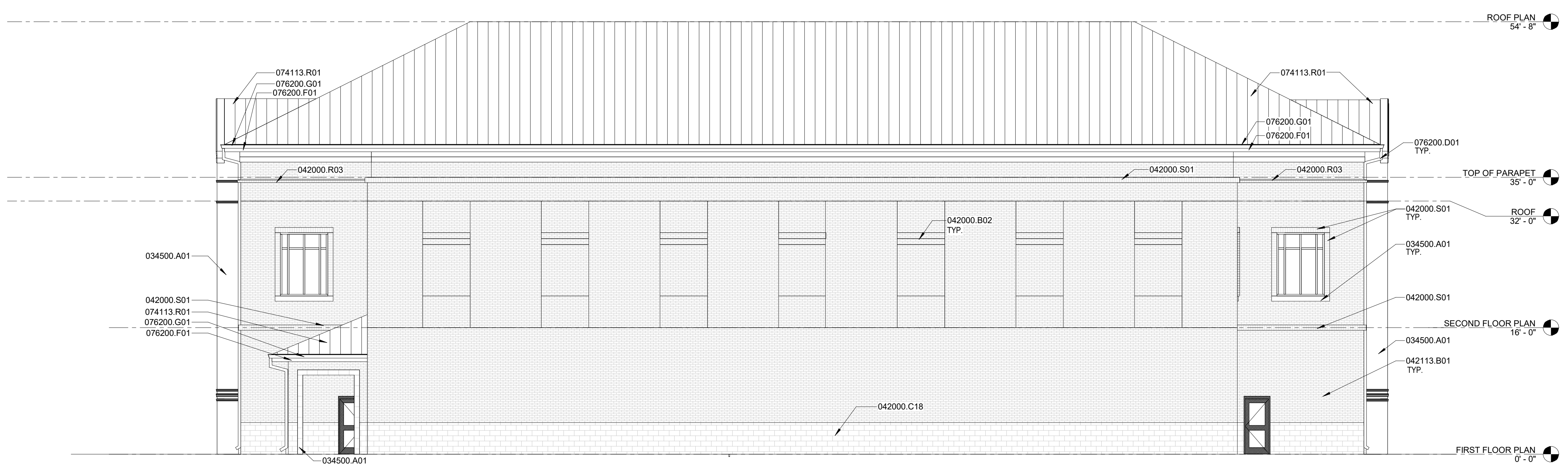
SCHEMATIC DESIGN

EXTERIOR ELEVATIONS

A5.01



1 North
1/8" = 1'-0"



2 South
1/8" = 1'-0"

KEYNOTE LEGEND

KEYNOTE	DESCRIPTION
034500.A01	PRECAST ARCHITECTURAL CONCRETE
042000.B02	FACE BRICK. SEE SPECS
042000.C18	8 X 8 X 16 C.M.U., SPLIT FACED, RUNNING BOND
042000.R03	BRICK ROWLOCK COURSE
042000.S01	BRICK SOLDIER COURSE
042113.B01	BRICK VENEER OVER STUD BACKUP
074113.R01	STANDING SEAM METAL ROOF PANELS
076200.D01	METAL DOWNSPOUT. SEE PLANS FOR SIZE
076200.F01	METAL FASCIA
076200.G01	METAL GUTTER. SEE PLANS FOR SIZE

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CIVIL	DUPLANTIS DESIGN GROUP, PC 314 E BAYOU ROAD THIBODAUX, LA 70301 985-447-2000 P
STRUCTURAL	BADALUX ENGINEERS 115 E 6TH STREET THIBODAUX, LA 70301 985-447-2317 P (985) 447-2319 F
MECHANICAL	YKH CONSULTING, LLC 3701 HESSMER AVE METAIRIE, LA 70002 (504) 284-5111 P
ELECTRICAL	YKH CONSULTING, LLC 3701 HESSMER AVE METAIRIE, LA 70002 (504) 284-5111 P
OTHER	NONE
OTHER	NONE
OTHER	NONE



**NEW NURSING BUILDING
NICHOLLS STATE
UNIVERSITY**
THIBODAUX, LA
SCHEMATIC DESIGN

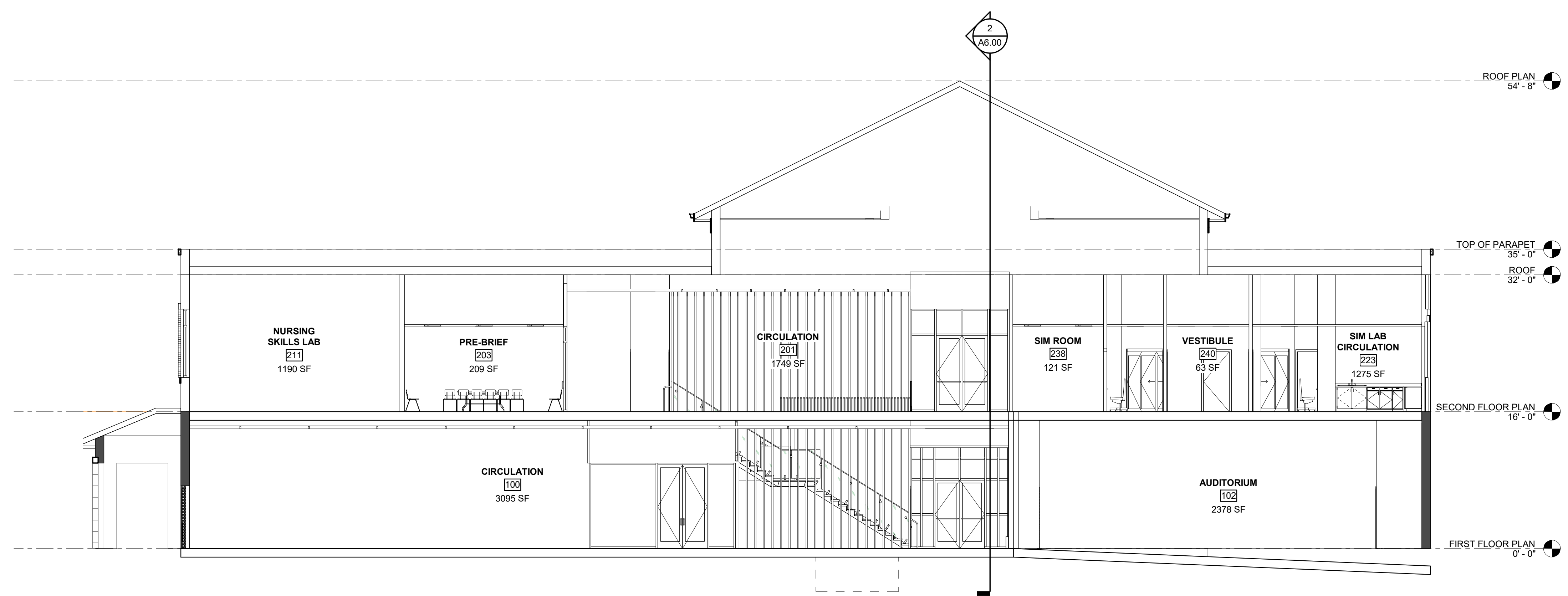
KEY PLAN
PLAN NORTH
TRUE NORTH

PROFESSIONAL SEAL

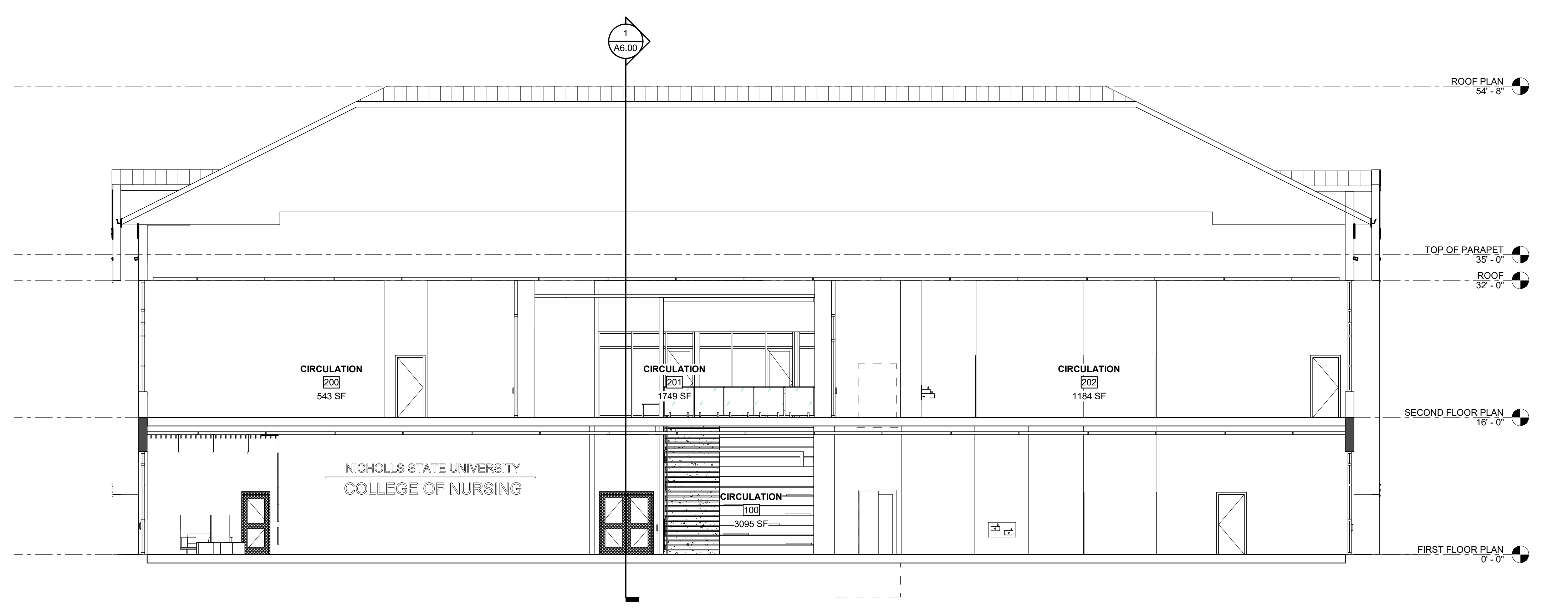
CLIENT	NICHOLLS STATE UNIVERSITY	
PROJECT NUMBER	2284	
DATE	07/28/2023	
REVISIONS		
No.	Description	Date

SCHEMATIC DESIGN
BUILDING SECTIONS, WALL SECTIONS,
PARTITION TYPES

A6.00



1 Section 4
1/8" = 1'-0"



2 Section 7
1/8" = 1'-0"

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**NEW NURSING BUILDING
NICHOLLS STATE UNIVERSITY
THIBODAUX, LOUISIANA 70301**

EXHIBIT A

**Project No. 19-621-22-01 WBS Number: F.19002436
State ID: New
Site Code: 3-29-003**

**OWNER:
State of Louisiana
Division of Administration
Facility Planning and Control**

SCHEMATIC DESIGN SPECIFICATIONS

GFP Project No. 2284



Date: July 28, 2023



A Joint Venture

PROJECT MANUAL

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SECTION 011000 - SUMMARY

1.1 PROJECT INFORMATION

- A. Project Identification: NEW NURSING BUILDING, NICHOLLS STATE UNIVERSITY.
 - 1. Project Location: Thibodaux, Louisiana
 - 2. Project No.: 19-621-22-01, F.19002436.
 - 3. State ID: NEW
 - 4. Site Code: 3-29-003
- B. Owner: State of Louisiana, Division of Administration.
 - 1. Owner's Representative: David Poche, Office of Facility Planning & Control. Tel: 504-568-8547. Email: david.poche@la.gov
 - 2. Architect: Gros Flores Positerry, LLC & Duplantis Design Group P.C., A Joint Venture.
 - 3. Address: 307 Canal Blvd., Thibodaux, LA 70301
 - 4. Phone: 985-447-9931
 - 5. Contact: Kevin M. Gros, AIA – Architect. Email: kgros@gfpdesign.com.
- C. Architect's Consultants: The Architect has retained the following design professionals who have prepared designated portions of the Contract Documents:
 - 1. Civil Engineering: Duplantis Design Group, P.C.
 - 2. Structural Engineering: Badeaux Engineers, Inc.
 - 3. Mechanical Engineering: YKH Consulting, LLC.
 - 4. Electrical Engineering: YKH Consulting, LLC.

1.2 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of Project:
 - 1. Construction of a new nursing building of approximately 34,300 square feet. The building is two stories.
- B. Type of Contract: Single prime contracts.
- C. Phased Construction: Single phase.
- D. Owner-Furnished Products:
 - 1. The User Agency (Nicholls State University) may provide the contract bathroom accessories, furniture, medical equipment, and appliances. Contractor will be responsible for installation of Owner-provided wall-mounted items.

- E. Use of Site: Limited to work in areas indicated.
 - 1. Limits of Site Disturbance: 40 feet (12.2 m) beyond building; 10 feet (3 m) beyond surface paving and utilities; 15 feet (4.5 m) beyond roadway and main utility branch trenches; 25 feet (7.6 m) beyond constructed permeable surfaces (such as pervious paving, stormwater detention facilities, and playing fields).
 - 2. Owner occupancy allowed.
- F. Owner's Occupancy Requirements: Partial Owner occupancy.
 - 1. Owner will occupy site and existing adjacent buildings during construction.
- G. Work Restrictions:
 - 1. Daily work hours shall be limited to hours as defined by the User Agency.
 - 2. Contractor shall coordinate with User Agency for work restrictions preceding a home football game or other activity taking place in the stadium.

END OF SECTION 011000

SECTION 012500 - SUBSTITUTION PROCEDURES

1.1 ACTION SUBMITTALS

- A. Substitution Request Form: CSI Form 13.1A, or Contractor's standard electronically-generated form.
- B. Documentation:
 - 1. Justification.
 - 2. Coordination information.
 - 3. Detailed comparison.
 - 4. Product Data.
 - 5. Samples.
 - 6. Certificates and qualification data.
 - 7. List of similar installations.
 - 8. Material test reports.
 - 9. Research reports.
 - 10. Detailed comparison of Contractor's construction schedule.
 - 11. Cost information.
 - 12. Contractor's certification.
 - 13. Contractor's waiver of rights to additional payment or time.
- C. Architect's Action: If necessary, Architect will request additional information within seven days of receipt of a request for substitution. Architect will notify Contractor of acceptance or rejection within 15 days of receipt, or seven days of receipt of additional information.

1.2 SUBSTITUTIONS

- A. Substitutions for Cause: Not later than 15 days prior to time required for preparation and review of submittals.
- B. Substitutions for Convenience: Will be considered if received within 60 days after the Notice to Proceed.

END OF SECTION 012500

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SECTION 012600 - CONTRACT MODIFICATION PROCEDURES

1.1 SUMMARY

- A. Minor Changes in the Work: AIA Document G710, issued by Architect.
- B. Owner-Initiated Work Changes Proposal Requests: Issued by Architect.
 - 1. Respond within time specified in Proposal Request or 20 days, when not otherwise specified.
 - 2. Quotation Form: AIA Document G709, issued by Architect.
- C. Contractor-Initiated Work Changes Proposals: Submit to Architect.
 - 1. Work Changes Proposal Request Form: Form acceptable to Architect.
- D. Change Orders: Form provided by Owner.
- E. Construction Change Directives: AIA Document G714, issued by Architect.

END OF SECTION 012600

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SECTION 012900 - PAYMENT PROCEDURES

1.1 SUMMARY

A. Schedule of Values:

1. Format: "Schedule of Values" to be provided by Owner.

B. Applications for Payment:

1. Payment Application Times: Indicated in the Agreement.
2. Payment Application Forms: Forms provided by Owner
3. Waiver of Mechanic's Lien: Submitted from subcontractors, sub-subcontractors, and suppliers for construction period covered by previous application.

END OF SECTION 012900

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SECTION 013100 - PROJECT MANAGEMENT AND COORDINATION

1.1 COORDINATION DRAWINGS

- A. Prepare coordination drawings where space is limited or if required to integrate products.
- B. Coordination Digital Data Files: Same format as Drawings, operating in Microsoft Windows operating system.

1.2 REQUESTS FOR INFORMATION (RFIs)

- A. RFI Forms: Software-generated form acceptable to Architect.
- B. Architect's Action: Allow seven working days for Architect's response for each RFI.
- C. RFI Log: Maintain a tabular log of RFIs. Submit log no less than three (3) days prior to the regular project meetings.

1.3 PROJECT MEETINGS

- A. Schedule and conduct meetings.
- B. Preconstruction conference.
- C. Preinstallation Conferences: Before each construction activity that requires coordination.
- D. Project Closeout Conference: No later than 90 days prior to the scheduled date of Substantial Completion.
- E. Progress Meetings: At monthly intervals, coordinated with preparation of payment requests.
- F. Coordination Meetings: At regular intervals, in addition to specific meetings held for other purposes.

END OF SECTION 013100

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SECTION 013200 - CONSTRUCTION PROGRESS DOCUMENTATION

1.1 INFORMATIONAL SUBMITTALS

- A. Format for Submittals: PDF electronic file.
- B. Startup construction schedule.
- C. Contractor's construction schedule.
- D. CPM reports.
- E. Daily Construction Reports: Submit at monthly intervals.
- F. Material Location Reports: Submit at monthly intervals.
- G. Site Condition Reports: Submit at time of discovery of differing conditions.
- H. Special Reports: Submit at time of unusual event.

1.2 QUALITY ASSURANCE

- A. Scheduling Consultant: Experienced specialist in CPM scheduling and reporting.

1.3 CONTRACTOR'S CONSTRUCTION SCHEDULE

- A. Activity Duration: No longer than 20 days.
- B. Constraints:
 - 1. Phasing.
 - 2. Work under more than one contract.
 - 3. Work by Owner.
 - 4. Products ordered in advance.
 - 5. Owner-furnished products.
 - 6. Work restrictions.
 - 7. Work stages.
 - 8. Construction areas.
- C. Milestones: Notice to Proceed, Substantial Completion, and final completion.
- D. Schedule Type: Gantt chart.
- E. Updating: At monthly intervals, issued no less than three days before each progress meeting.

END OF SECTION 013200

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SECTION 013233 - PHOTOGRAPHIC DOCUMENTATION

1.1 PRODUCTS

- A. Digital Photographs: Provide color images in JPG format, produced by a digital camera.
- B. Preconstruction Photographs: Before commencement of demolition and starting construction, take photographs of Project site and existing building including existing items to remain during construction, from different vantage points.
 - 1. Take photographs to show existing conditions of the property before starting the Work.
 - 2. Take photographs of the existing building to accurately record physical conditions at start of construction.
 - 3. Take additional photographs as required to record settlement or cracking of structures, pavements, and improvements.
- C. Periodic Construction Photographs: Take photographs of existing unforeseen conditions that may appear during the process of construction.

END OF SECTION 013233

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SECTION 013300 - SUBMITTAL PROCEDURES

1.1 DEFINITIONS

- A. Action Submittals: Information that requires Architect's responsive action.
- B. Informational Submittals: Information that does not require Architect's approval. Submittals may be rejected for not complying with requirements.

1.2 PROCEDURES

- A. Electronic copies of digital data files of the Contract Drawings will be provided by Architect for Contractor's use.
- B. Processing Time:
 - 1. Initial Review: 15 days.
 - 2. Resubmittal Review: 15 days.
 - 3. Sequential Review: 21 days.
 - 4. Concurrent Consultant Review: 15 days.
- C. Transmittal Form: Electronically-generated form acceptable to Architect.
- D. Submittal Procedures:
 - 1. Submit via email as PDF files.
 - 2. Certificates and Certifications Submittals: Includes signature of entity responsible for preparing certification. Provide a digital signature on electronically submitted certificates and certifications where indicated.
- E. Delegated-Design Services Certification: In addition to other required submittals, submit digitally signed PDF electronic file paper copies of certificate, signed and sealed by the responsible design professional.
- F. Contractor's Review:
 - 1. Submittals: Marked with approval stamp before submitting to Architect.
- G. Architect's Action:
 - 1. Action Submittals: Stamped with an action stamp and returned.
 - 2. Informational Submittals: Reviewed but not returned, or rejected if they do not comply with requirements.
 - 3. Incomplete submittals will be returned without review.
 - 4. Submittals Not Required: May not be reviewed and may be discarded.

END OF SECTION 013300

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SECTION 013516 - ALTERATION PROJECT PROCEDURES

1.1 QUALITY ASSURANCE

- A. Specialist qualifications.
- B. Alteration work program for whole Project.
- C. Fire-prevention plan.

1.2 STORAGE AND HANDLING OF SALVAGED MATERIALS

- A. Storage Space:
 - 1. On-site by Owner, includes security and climate control.
 - 2. Off-site by Contractor.

1.3 PROTECTION

- A. Protection:
 - 1. Barricades, barriers, and temporary directional signage for public and fire egress.
 - 2. Temporary protective covers over walkways.
 - 3. Surface protection along haul routes.
 - 4. Sound-control treatment.
 - 5. Utility Services: Give notifications prior to utility interruptions, and disconnect and cap services where shown on drawings.
 - 6. Test drains before start of work.
 - 7. Protect existing roofing.
- B. Fire Protection:
 - 1. General: NFPA 241. Perform duties titled "Owner's Responsibility for Fire Protection." Provide fire extinguishers, fire blankets, and rag buckets.
 - 2. Heat-Generating Equipment: Open-flame equipment. Obtain approval for high-heat equipment.
 - 3. Trained Fire Watch:
 - a. Final Fire-Safety Inspection: 30 minutes after conclusion of work.
 - b. Maintain fire-watch personnel until 60 minutes after conclusion of daily work.

END OF SECTION 013516

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SECTION 014000 - QUALITY REQUIREMENTS

1.1 DEFINITIONS

- A. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.
- B. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements.

1.2 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Contractor's quality control personnel.
 - 2. Manufacturer.
 - 3. Fabricator.
 - 4. Installer.
 - 5. Professional engineer.
 - 6. Specialists.
 - 7. Testing agency.
 - 8. Manufacturer's technical representative.
 - 9. Factory-authorized service representative.
- B. Preconstruction testing.
- C. Mockups: For each form of construction and finish required, using materials indicated for the completed Work.
 - 1. Demonstrate the proposed range of aesthetic effects and workmanship.
 - 2. Maintain mockups as a standard for judging the completed Work.
 - 3. Demolish and remove mockups when directed unless otherwise indicated.
- D. Integrated Exterior Mockups: Construct according to approved Shop Drawings.
- E. Laboratory mockups constructed at testing facility.

1.3 QUALITY CONTROL

- A. Owner Responsibilities: Where indicated as Owner's responsibility, Owner will engage a qualified testing agency to perform these services.
- B. Contractor Responsibilities: Tests and inspections not explicitly assigned to Owner are Contractor's responsibility.
- C. Manufacturer's field services.

- D. Retesting/Reinspecting: Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and reinspecting, for construction that replaced Work that failed to comply with the Contract Documents.
- E. Associated Services: Access to the Work, taking and storing samples, and delivery of samples to testing agency.
- F. Special Tests and Inspections: Conducted by a qualified testing agency as required by authorities having jurisdiction, as indicated in individual Specification Sections.
- G. Test and inspection log.
- H. Repair and Protection: Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION 014000

SECTION 014200 - REFERENCES

1.1 DEFINITIONS

- A. Approved.
- B. Directed.
- C. Indicated.
- D. Regulations.
- E. Furnish.
- F. Install.
- G. Provide.
- H. Project site.

1.2 INDUSTRY STANDARDS

- A. Publication Dates: In effect as of the date of the Contract Documents unless otherwise indicated.

1.3 ABBREVIATIONS AND ACRONYMS

- A. Industry Organizations: List included in this Section.
- B. Code Agencies: List included in this Section.
- C. Federal Government Agencies: List included in this Section.
- D. Standards and Regulations: List included in this Section.
- E. State Government Agencies: List included in this Section.

END OF SECTION 014200

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SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS

1.1 USE CHARGES

- A. Sewer Service: Pay charges.
- B. Water Service: Pay charges.

1.2 INFORMATIONAL SUBMITTALS

1.3 MATERIALS

- A. Chain-link fencing.
- B. Portable chain-link fencing.

1.4 TEMPORARY FACILITIES

- A. Common-Use Field Office: Prefabricated or mobile units, including conference room.
- B. Storage and fabrication sheds.

1.5 EQUIPMENT

- A. Fire extinguishers.
- B. HVAC Equipment: Unless Owner authorizes use of permanent HVAC system, provide vented, self-contained heaters with individual space thermostatic control.
- C. Air-Filtration Units: HEPA-filter-equipped portable units. Configure to run continuously.

1.6 TEMPORARY UTILITY INSTALLATION

- A. Sewers and drainage.
- B. Water Service: Connect to existing service.
- C. Sanitary Facilities: Provide temporary toilets, wash facilities, and drinking water.
- D. Heating and Cooling: Provide temporary heating and cooling required by construction activities.
- E. Isolation of work areas in occupied facilities.
- F. Ventilation and humidity control.
- G. Electric Power Service: Provide overhead service.
- H. Lighting: Provide temporary lighting.
- I. Telephone Service: Provide temporary telephone service in common-use facilities.

- J. Electronic Communication Service: Provide a desktop computer in the primary field office adequate for use by Architect and Owner to access Project electronic documents and maintain electronic communications.

1.7 SUPPORT FACILITIES INSTALLATION

- A. Parking: Use designated areas of Owner's existing parking areas.
- B. Dewatering Facilities and Drains: Maintain Project site, excavations, and construction free of water.
- C. Project Signs: Provide Project signs as indicated. Unauthorized signs are not permitted.

1.8 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Temporary Partitions: Provide floor-to-ceiling dustproof partitions to separate areas occupied by Owner and tenants from fumes and noise.

END OF SECTION 015000

SECTION 016000 - PRODUCT REQUIREMENTS

1.1 ACTION SUBMITTALS

- A. Comparable Product Requests: Architect will notify Contractor of approval or rejection within 15 days of receipt of request, or seven days of receipt of additional information.

1.2 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Use means and methods that will prevent damage, deterioration, and loss, including theft.
- B. Store products to allow for inspection and measurement or counting of units.
- C. Provide for storage of materials and equipment by Owner.

1.3 PRODUCT WARRANTIES

- A. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.
- B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution.

1.4 PRODUCT SELECTION PROCEDURES

- A. Product Selection Procedures:
 - 1. Product: Product named that complies with requirements.
 - 2. Manufacturer/Source: Product by manufacturer or from source named that complies with requirements.
 - 3. Products: One of the products listed that complies with requirements. Comparable products will be considered unless otherwise indicated.
 - 4. Manufacturers: Product by one of the manufacturers listed that complies with requirements. Comparable products will be considered unless otherwise indicated].
 - 5. Basis-of-Design Product: Either the specified product or a comparable product by one of the other named manufacturers.
 - 6. Visual Matching Specification: Product that matches Architect's sample. Architect's decision will be final.
 - 7. Visual Selection Specification: Product (and manufacturer) that complies with other specified requirements. Architect will select color, gloss, pattern, density, or texture from manufacturer's product line that includes both standard and premium items.

1.5 COMPARABLE PRODUCTS

- A. Conditions for Consideration:

1. Product does not require revisions to the Contract Documents, is consistent with the Contract Documents and will produce the indicated results, and is compatible with other portions of the Work.
2. Comparison of proposed product with those named in the Specifications.
3. Product provides specified warranty.
4. Similar installations, if requested.
5. Samples, if requested.

END OF SECTION 016000

SECTION 017300 - EXECUTION

1.1 INFORMATIONAL SUBMITTALS

- A. Cutting and patching plan.

1.2 EXECUTION

- A. Existing Conditions: Existence and location of site improvements, utilities, and other construction affecting the Work must be investigated and verified.
- B. Review of the Contract Documents and field conditions.
- C. Installation: Comply with manufacturer's written instructions.

1.3 CUTTING AND PATCHING

- A. Provide temporary support.
- B. Protect in-place construction.
- C. Protect adjacent occupied areas.
- D. Existing Utility Services and Mechanical/Electrical Systems: Prevent interruption to occupied areas.
- E. Cutting: In general, use hand or small power tools. Cut holes and slots neatly to minimum size required. Temporarily cover openings when not in use.
- F. Patching: Patch with durable seams that are as invisible as practicable. Restore exposed finishes.

1.4 OWNER-INSTALLED PRODUCTS

- A. Provide access to Project site for Owner's personnel.
- B. Inform Owner of Contractor's preferred construction schedule for Owner's portion of the Work. Adjust construction schedule based on a mutually agreeable timetable.
- C. Include Owner's personnel at preinstallation conferences.

1.5 PROGRESS CLEANING

- A. Clean Project site and work areas daily. Dispose of materials lawfully.
- B. Keep installed work clean.

- C. Remove debris from concealed spaces.

1.6 STARTING AND ADJUSTING

- A. Start equipment and operating components to confirm proper operation.
- B. Adjust equipment for proper operation.

1.7 PROTECTION OF INSTALLED CONSTRUCTION

- A. Provide final protection and maintain conditions that ensure Work is without damage.

END OF SECTION 017300

SECTION 017419 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

1.1 SUMMARY

- A. Salvaging nonhazardous demolition and construction waste.
- B. Disposing of nonhazardous demolition and construction waste.

1.2 PLAN IMPLEMENTATION

- A. Train workers, subcontractors, and suppliers on proper waste management procedures.

END OF SECTION 017419

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SECTION 017700 - CLOSEOUT PROCEDURES

1.1 SUBSTANTIAL COMPLETION

A. Preliminary Procedures: Before requesting inspection, complete the following.

1. Contractor's list of incomplete items (punch list) prepared on form acceptable to Architect.
 - a. Submit PDF electronic file.
2. Owner advised of pending insurance changeover.
3. Warranties, maintenance service agreements, and similar documents submitted.
4. Releases, occupancy permits, and operating certificates submitted.
5. Project Record Documents submitted.
6. Tools, spare parts, and extra materials delivered.
7. Final changeover of locks performed.
8. Startup testing completed.
9. Test/adjust/balance records submitted.
10. Temporary facilities removed.
11. Owner advised of heat and utility changeover.
12. Changeover information for use, operation, and maintenance submitted.
13. Owner's personnel instructed in operation, adjustment, and maintenance of equipment and systems, including demonstration and training videotapes submitted.
14. Final cleaning performed.
15. Touchup performed.

1.2 FINAL COMPLETION

A. Preliminary Procedures: Before requesting final inspection, complete the following:

1. Final Application for Payment submitted.
2. List of incomplete items (punch list) endorsed by Architect as completed or otherwise resolved for acceptance.
3. Evidence of continuing insurance coverage submitted.
4. Final pest-control inspection report and warranty submitted.

1.3 SUBMITTAL OF PROJECT WARRANTIES

- A. Partial Occupancy: Submit warranties within 15 days of completion of designated portions of the Work that are occupied or used by Owner.
- B. Scan warranties and bonds into a single indexed electronic PDF file.

1.4 FINAL CLEANING

- A. Cleaning Agents: Comply with Green Seal's GS-37 and California Code of Regulations maximum allowable VOC levels.

- B. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program.
- C. Replace disposable air filters and clean permanent air filters.
- D. Clean ducts, blowers, and coils if units were operated without filters during construction.
- E. Clean HVAC system in compliance with NADCA Standard 1992-01.

1.5 REPAIR OF THE WORK

- A. Repair or remove and replace defective construction. Where damaged or worn items cannot be repaired or restored, provide replacements. Restore damaged construction and permanent facilities used during construction to specified condition.

END OF SECTION 017700

SECTION 017823 - OPERATION AND MAINTENANCE DATA

1.1 SUMMARY

- A. Operation and maintenance manuals.

1.2 PRODUCTS

- A. Format:

- 1. PDF electronic files with composite electronic index on digital media acceptable to Architect. Include a complete electronically linked operation and maintenance directory.

- B. Operation Manuals: System, subsystem, and equipment descriptions, operating procedures, wiring diagrams, control diagrams and sequence of operation, and piped system diagrams.

- C. Product Maintenance Manuals: Source information, product information, maintenance procedures, repair materials and sources, and warranties and bonds.

- D. Systems and Equipment Maintenance Manuals: Source information, manufacturers' maintenance documentation, maintenance procedures, maintenance and service schedules, spare parts list and source information, maintenance service contracts, and warranties and bonds.

END OF SECTION 017823

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SECTION 017839 - PROJECT RECORD DOCUMENTS

1.1 PRODUCTS

A. Record Drawings:

1. One set(s) of marked-up record prints.
 - a. Initial Submittal:
 - 1) PDF electronic files of scanned record prints.
 - 2) Record digital data files.
 - b. Final Submittal:
 - 1) PDF electronic files of scanned record prints.

B. Record Specifications: Annotated PDF electronic files.

C. Record Product Data: Annotated PDF electronic files and directories.

D. Miscellaneous Record Submittals: Annotated PDF electronic files and directories.

1.2 PRODUCTS

A. Record Digital Data Files: Corrected digital data files of the Contract Drawings, as follows:

1. Format: Annotated PDF electronic file with comment function enabled.

END OF SECTION 017839

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SECTION 017900 - DEMONSTRATION AND TRAINING

1.1 INSTRUCTION PROGRAM

- A. Program Structure: Training modules for each system and for equipment not part of a system, including the following:
 - 1. Basis of system design, operational requirements, and criteria.
 - 2. Documentation.
 - 3. Emergencies.
 - 4. Operations.
 - 5. Adjustments.
 - 6. Troubleshooting.
 - 7. Maintenance.
 - 8. Repairs.
- B. Facilitator to prepare instruction program and training modules and to coordinate instructors.
- C. Evaluation: Demonstration performance-based test.

END OF SECTION 017900

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SECTION 024119 - SELECTIVE DEMOLITION

1.1 FIELD CONDITIONS

- A. Owner will not occupy portions of building adjacent to selective demolition area.
- B. Hazardous Materials: Abatement and Remediation specified elsewhere in Contract Documents.

1.2 WARRANTY

- A. Existing Warranties: No known existing warranties.

1.3 EXAMINATION

- A. Perform an engineering survey of condition of building.

1.4 PREPARATION

- A. Refrigerant: Remove according to 40 CFR 82.

1.5 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

- A. Utility Shut Off: By Contractor.

1.6 DISPOSAL OF DEMOLISHED MATERIALS

- A. Dispose of in an EPA-approved landfill.

1.7 SELECTIVE DEMOLITION SCHEDULE

- A. Items required to remain, remove, remove and salvage, remove and reinstall, and dismantle are indicated on the Drawings.

END OF SECTION 024119

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SECTION 042000 - UNIT MASONRY

1.1 QUALITY ASSURANCE

- A. Mockups of typical wall areas.

1.2 PERFORMANCE REQUIREMENTS

- A. Net-Area Compressive Strengths of Structural Unit Masonry: As indicated.
- B. Determine net-area compressive strength of masonry by unit-strength method.

1.3 MATERIALS

- A. Concrete Masonry Units (CMUs):
 - 1. Units made with integral water repellent for exposed units.
 - 2. CMUs: Normal weight.
 - 3. Decorative CMUs: Normal-weight units with ground-face finish.
- B. Concrete Masonry Lintels: Precast units matching CMUs.
- C. Brick: Clay face brick.
- D. Reinforcement: Uncoated-steel reinforcing bars.
- E. Masonry-Joint Reinforcement:
 - 1. Interior Walls: Hot-dip galvanized, carbon steel.
 - 2. Exterior Walls: Hot-dip galvanized, carbon steel.
- F. Ties and Anchors: Galvanized steel.
 - 1. Adjustable anchors for connecting to structural steel framing.
 - 2. Partition top anchors.
 - 3. Adjustable Masonry-Veneer Anchors: Screw attached.
- G. Embedded Flashing:
 - 1. Partially Exposed Flashing: Stainless steel.
 - 2. Concealed (Flexible) Flashing: self-adhered stainless steel fabric flashing.
 - a. Basis of Design: Hohmann & Barnard, Inc.: Mighty-Flash SA.
 - 3. Single-Wythe CMU Flashing System: Polyethylene flashing pans and web covers.
- H. Weep/Vent Holes: cellular plastic.
 - 1. Basis of Design: Hohmann & Barnard, Inc.: QV – Quadro-Vent.
- I. Cavity drainage material.
 - 1. Basis of Design: Hohmann & Barnard, Inc.: Mortar Trap.

- J. Reinforcing bar positioners.
- K. Masonry-Cell Fill: Perlite insulation.
- L. Mortar:
 - 1. Pigmented mortar for exposed mortar joints.

1.4 INSTALLATION

- A. Bond Pattern: Running bond.
- B. Cavity face of backup wythe parged.
- C. Clean masonry waste removed from job site.

END OF SECTION 042000

SECTION 055000 - METAL FABRICATIONS

1.1 PRODUCTS

- A. Materials: Steel plates, shapes, and bars, Stainless-steel plates, shapes, and bars, Steel tubing, Steel pipe, Iron castings.
- B. Miscellaneous Framing and Supports: Galvanized where indicated.
 - 1. Steel framing and supports for operable partitions, overhead doors, overhead grilles, low partitions, mechanical and electrical equipment, applications where framing and supports are not specified in other Sections.
 - 2. Elevator machine beams, hoist beams, and divider beams.
 - 3. Steel shapes for supporting elevator door sills.
- C. Shelf angles, galvanized at exterior walls.
- D. Metal Ladders, Including Elevator Pit Ladders: Steel.
 - 1. Galvanized exterior ladders.
 - 2. Primed interior ladders using zinc-rich primer.
- E. Alternating Tread Devices: Stainless steel.
- F. Elevator pit sump covers.
- G. Miscellaneous Steel Trim: Steel angle corner guards and steel edgings.
 - 1. Galvanized exterior trim .
- H. Metal Bollards: Schedule 80 steel pipe.
 - 1. Primed using zinc-rich primer.
- I. Wire rope parking garage guards.
- J. [Pipe] [Downspout] guards.
 - 1. Galvanized.
 - 2. Primed using zinc-rich primer.
- K. Abrasive Metal Nosings: Extruded aluminum.
- L. Metal Downspout Boots: Cast iron, primed using zinc-rich primer.
- M. Loose bearing and leveling plates, galvanized.
- N. Loose steel lintels, galvanized at exterior walls.

- O. Anchor bolts, steel pipe sleeves, slotted-channel inserts, and wedge-type inserts cast into concrete or built into unit masonry.
- P. Steel weld plates and angles not specified in other Sections, for casting into concrete.

END OF SECTION 055000

SECTION 055113 - METAL PAN STAIRS

1.1 SUMMARY

- A. Preassembled steel stairs with concrete-filled treads.
- B. Steel tube railings attached to metal stairs.
- C. Steel tube handrails attached to walls adjacent to metal stairs.
- D. Railing gates at the level of exit discharge.

1.2 PERFORMANCE REQUIREMENTS

- A. Engineering design of steel stairs and railings by Contractor.

1.3 MATERIALS

- A. Abrasive Nosings: Extruded aluminum.
- B. Low-Emitting Primer: Primer complies with LEED for Schools Credit IEQ 4.2.

1.4 STEEL-FRAMED STAIRS

- A. Stair Standard: NAAMM AMP 510, "Metal Stairs Manual," Commercial Class.
- B. Stringers: Steel channels.
- C. Metal Pan Stairs: Uncoated cold-rolled or hot-rolled steel sheet.
- D. Steel Tube Railings:
 - 1. Rails and Posts: 1-1/2-inch- (38-mm-) round top and bottom rails and 1-1/2-inch- (38-mm-) round posts.
 - 2. Picket Infill (emergency stairs): 1/2-inch- (13-mm-) square pickets spaced less than 4 inches (100 mm) clear.
 - 3. Mesh Infill (main stair): Woven wire mesh crimped into steel channel frames.

END OF SECTION 055113

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SECTION 055213 - PIPE AND TUBE RAILINGS

1.1 SUMMARY

- A. Steel pipe and tube railings.

1.2 PERFORMANCE REQUIREMENTS

- A. Engineering design of railings by Contractor.

1.3 FABRICATION

- A. Changes in Direction of Members: By bending or by inserting prefabricated fittings.
- B. Connections: Welded.

1.4 FINISHES

- A. Steel and Iron: Galvanized after fabrication, shop painted with high-performance coating.

END OF SECTION 055213

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SECTION 057313 - GLAZED DECORATIVE METAL RAILINGS

1.1 SUMMARY

- A. Interior structural glass railings.

1.2 QUALITY ASSURANCE

- A. Mockups for each form and finish of railing.

1.3 MATERIALS

- A. Aluminum.
- B. Stainless Steel: Type 304.

1.4 FABRICATION

- A. Metal Connections: Mechanical.
- B. Changes in Direction of Metal Members: by inserting prefabricated fittings.
- C. Structural Glass Balusters: Laminated, tempered.

1.5 METAL FINISHES

- A. Aluminum: Class I, clear anodic or Class II, clear anodic.
- B. Stainless Steel: Type 304

END OF SECTION 057313

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SECTION 061053 - MISCELLANEOUS ROUGH CARPENTRY

1.1 MATERIALS

- A. Wood Products, General:
 - 1. Maximum Moisture Content of Lumber: 15 percent.
- B. Wood-Preservative-Treated Materials:
 - 1. Preservative Treatment: AWP A U1; use Category UC2 except use Category UC3b for exterior construction and use Category UC4a for items in contact with the ground.
 - a. Preservative Chemicals: Containing no arsenic or chromium.
 - 2. Application: Items indicated and the following:
 - a. Items in contact with roofing or waterproofing.
 - b. Items in contact with concrete or masonry.
- C. Fire-Retardant-Treated Materials:
 - 1. Exterior type for exterior locations and where indicated.
 - 2. Interior Type A, High Temperature (HT) for enclosed roof framing and where indicated.
 - 3. Interior Type A unless otherwise indicated.
 - 4. Application: Items indicated and the following:
 - a. Framing for raised platforms.
 - b. Concealed blocking.
 - c. Plywood backing panels.
- D. Miscellaneous Lumber:
 - 1. Dimension Lumber: Construction or No. 2 grade mixed southern pine.
 - 2. Utility Shelving: 15 percent maximum moisture content.
 - 3. Concealed Boards: 15 percent maximum moisture content.
 - a. Mixed southern pine, No. 2.
- E. Plywood Backing Panels: Exterior, AC, fire-retardant treated.
- F. Fasteners: Stainless steel where exposed to weather, in ground contact, in contact with treated wood, or in area of high relative humidity.

1.2 INSTALLATION

- A. Furring to Receive Plywood or Hardboard Paneling: 1-by-3-inch nominal-size (19-by-63-mm actual-size) furring at 16 inches o.c.

END OF SECTION 061053

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SECTION 061600 - SHEATHING

1.1 MATERIALS

A. Wall Sheathing:

1. Glass-Mat Gypsum: Type X, 5/8 inch (15.9 mm) thick.

B. Fasteners: Stainless steel where exposed to weather, in ground contact, in contact with treated wood, or in area of high relative humidity.

C. Miscellaneous Materials:

1. Sealant for gypsum sheathing.
2. Sheathing tape.

1.2 INSTALLATION

A. Gypsum Sheathing:

1. Screw to cold-formed metal framing.

END OF SECTION 061600

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SECTION 066400 - PLASTIC PANELING

1.1 PLASTIC SHEET PANELING

- A. Glass-Fiber-Reinforced Plastic Paneling:
 - 1. Paneling: Low emitting for LEED for Schools.
 - 2. Flame-Spread Index: 25 or less.
 - 3. Surface Finish: Molded pebble texture.
 - 4. Color: As selected.

1.2 ACCESSORIES

- A. Trim Accessories: Vinyl extrusions.
 - 1. Color: Match panels.
- B. Adhesive: As recommended by paneling manufacturer.
 - 1. VOC Limit: 50 g/L.
- C. Sealant: Mildew-resistant, neutral-curing silicone.
 - 1. VOC Limit: 250.
 - 2. Low emitting for LEED for Schools.

1.3 INSTALLATION

- A. Installation Method: Adhesive.
 - 1. Fill grooves in trim accessories with sealant.

END OF SECTION 066400

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SECTION 071416 - COLD FLUID-APPLIED WATERPROOFING

1.1 QUALITY ASSURANCE

- A. Mockups on exterior CMU backup walls.

1.2 WARRANTY

- A. Watertightness Warranty: Five years.
- B. Installer's Warranty: Two years. Includes overburden removal and replacement.

1.3 MATERIALS

- A. Single-component, modified polyurethane waterproofing.
 - 1. Basis-of-Design: BASF "MasterSeal HLM 5000 R (Roller) or S (Spray)"
- B. Insulation: Extruded polystyrene board.

1.4 INSTALLATION

- A. Unreinforced Application: Dry film thickness of 45-55 mils.

1.5 FIELD QUALITY CONTROL

- A. Testing Agency: Contractor engaged to perform electronic leak-detection testing.
- B. Manufacturer's field service engaged to inspect conditions and installation.

END OF SECTION 071416

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SECTION 071900 - WATER REPELLENTS

1.1 SUMMARY

- A. Water-repellent treatments for the following:
 - 1. Cast stone.
 - 2. Concrete unit masonry.
 - 3. Clay brick masonry.

1.2 QUALITY ASSURANCE

- A. Mockups for each type and color of water repellent and substrate indicated.

1.3 PRECONSTRUCTION TESTING

- A. Preconstruction Testing: Performed on field mockups.

1.4 MATERIALS

- A. Penetrating Water Repellent: Proprietary blend, clear.
 - 1. Basis of Design: PROSOCO, Inc. "Sure Klean[®] Weather Seal Blok-Guard[®] & Graffiti Control Ultra 15"
 - 2. VOC Content: 100 g/L or less.

1.5 APPLICATION

- A. Manufacturer's Field Service: Factory-authorized service representative to inspect substrate and instruct Applicator.

1.6 FIELD QUALITY CONTROL

- A. Coverage testing by hosing down surfaces.

END OF SECTION 071900

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SECTION 072100 - THERMAL INSULATION

1.1 MATERIALS

A. Insulation:

1. Extruded Polystyrene Board: Type IV, 25 psi (173 kPa).
 - a. Basis of Design: Owens Corning "Foamular 250".
2. Glass-Fiber Blanket: Unfaced.
 - a. Basis of Design: Owens Corning "EcoTouch Pink".

B. Auxiliary Insulating Materials:

1. Insulation fasteners.
2. Joint seal tape.

END OF SECTION 072100

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SECTION 072726 - FLUID-APPLIED MEMBRANE AIR BARRIERS

1.1 QUALITY ASSURANCE

- A. Installer Qualifications: Trained and approved by manufacturer.
- B. Mockups of wall assembly.

1.2 PRECONSTRUCTION TESTING

- A. Mockup testing for review and approval by manufacturer's technical representative.

1.3 MATERIALS, GENERAL

- A. VOC Content: 50 g/L or less.

1.4 PERFORMANCE REQUIREMENTS

- A. Air-Barrier Assembly Air Leakage: Maximum 0.004 cfm/sq. ft. of surface area at 1.57 lbf/sq. ft.

1.5 MEMBRANE AIR BARRIER

- A. Fluid-Applied, Vapor-Retarding Membrane: Elastomeric, synthetic polymer membrane, with maximum 0.004 cfm/sq. ft. of surface area at 1.57-lbf/sq. ft. air permeance.
 - 1. Basis of Design: Dupont "Tyvek Fluid Applied WB+"

1.6 INSTALLATION

- A. Membrane Thickness: Total dry film thickness as recommended in writing by manufacturer to meet performance requirements, but not less than 40-mil (1.0-mm) dry film thickness, applied in one or more equal coats.

1.7 FIELD QUALITY CONTROL

- A. Testing and Inspecting: By Contractor-engaged agency for qualitative air leakage and adhesion.

END OF SECTION 072726

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SECTION 074293 - SOFFIT PANELS

1.1 QUALITY ASSURANCE

- A. Portable roll-forming equipment allowed for flush metal soffits only.
- B. Mockups.

1.2 WARRANTY

- A. Special Warranty: Two years.
- B. Finishes:
 - 1. Flush Metal Soffit: 20 years.
 - 2. Linear Metal Soffit: 15 years.

1.3 PERFORMANCE REQUIREMENTS

- A. Structural Performance: ASTM E 1592.
 - 1. Wind Loads: As indicated on Drawings.
 - 2. Other Design Loads: As indicated on Drawings.
 - 3. Deflection Limits: 1/240.
- B. Air Infiltration: ASTM E 283.
- C. Water Penetration: ASTM E 331.

1.4 PRODUCTS

- A. Solid Metal Soffit Panels:
 - 1. Profile: Flush.
 - 2. Material: Metallic-coated steel sheet.
 - 3. Exterior Finish: Two-coat fluoropolymer.
- B. Linear Metal Soffits:
 - 1. Profile: 6-inch V-groove planks
 - 2. Material: Extruded aluminum 6063 T5.
 - 3. Exterior Finish: Powder coated finish of wood-grain appearance.
 - 4. Basis of Design: Mayne, Inc. "Longboard Soffit 6-Inch Planks"
- C. Accessories: Flashing and trim.

1.5 INSTALLATION

- A. Watertight Installation: Sealant or tape at joints.

1.6 FIELD QUALITY CONTROL

- A. Testing: By factory-authorized service representative.

END OF SECTION 074293

SECTION 075216 - STYRENE-BUTADIENE-STYRENE (SBS) MODIFIED BITUMINOUS
MEMBRANE ROOFING

1.1 PREINSTALLATION MEETINGS

- A. Preinstallation roofing conference.

1.2 WARRANTY

- A. Manufacturer's Materials and Workmanship Warranty: 20 years.
- B. Installer's Warranty: Two years.

1.3 PERFORMANCE REQUIREMENTS

- A. Roofing System Design:
 - 1. Low Roof:
 - a. Corner Uplift Pressure: 176.6 lbf/sq. ft.
 - b. Perimeter Uplift Pressure: 117.4 lbf/sq. ft.
 - c. Field-of-Roof Uplift Pressure: 70.0 lbf/sq. ft.
 - 2. High Roof:
 - a. Corner Uplift Pressure: 192.5 lbf/sq. ft.
 - b. Perimeter Uplift Pressure: 127.9 lbf/sq. ft.
 - c. Field-of-Roof Uplift Pressure: 76.3 lbf/sq. ft.
- B. FM Global Listing: Class 1A-90.
- C. Exterior Fire-Test Exposure: Class A.

1.4 MATERIALS

- A. Sheathing paper.
- B. Base Sheet: SBS-modified, asphalt-coated sheet, with glass-fiber-reinforcing mat.
- C. Base-Ply Sheet: Asphalt-impregnated, glass-fiber felt.
- D. Roofing Membrane Sheet: SBS-modified asphalt sheet, reinforced with a combination of polyester fabric and glass fibers; smooth surface.
- E. Roofing Cap Sheet: SBS-modified asphalt sheet, reinforced with a combination of polyester fabric and glass fibers; granule surface.
- F. Base Flashing Sheet:

1. Backer Sheet: SBS-modified asphalt sheet, reinforced with polyester fabric and glass fibers; smooth surface.
2. Flashing Sheet: SBS-modified asphalt sheet, reinforced with a combination of polyester fabric and glass fibers; metal-foil surface.

G. Roof Insulation: Composite polyisocyanurate board.

1. Tapered Insulation: 1/4 inch per 12 inches (1:48) to form crickets where indicated or otherwise required for positive drainage.

H. Insulation cant strips.

I. Tapered edge strips.

J. Walkways:

1. Pads: Polymer-modified, reconstituted rubber pads.

1.5 INSTALLATION

A. Roof Insulation: Adhered and mechanically fastened.

B. Roofing System:

1. Deck Type: I (insulated).
2. Adhering Method: L (cold-applied adhesive).
3. Base Sheet: One.
4. Number of Glass-Fiber Base-Ply Sheets: One.
5. Number of SBS-Modified Asphalt Sheets: One.
6. Surfacing Type: M (mineral-granule-surfaced cap sheet).

1.6 FIELD QUALITY CONTROL

A. Testing Agency: Contractor engaged.

END OF SECTION 075216

SECTION 076100 - SHEET METAL ROOFING

1.1 SUMMARY

- A. Custom-fabricated, standing-seam metal roofing.

1.2 QUALITY ASSURANCE

- A. Mockup of typical roof area and eave.

1.3 PERFORMANCE REQUIREMENTS

- A. Sheet Metal Roofing Standard: SMACNA's "Architectural Sheet Metal Manual".

1.4 MATERIALS

- A. Roofing Sheet Metals:

- 1. Metallic-Coated Steel Sheet: Smooth, flat surface.
 - a. Coil-Coated Finish: Two-coat fluoropolymer.

END OF SECTION 076100

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SECTION 076200 - SHEET METAL FLASHING AND TRIM

1.1 QUALITY ASSURANCE

- A. Mockups of typical roof edge, built-in gutter/scupper, fascia, and other edge of roof or wall flashing.

1.2 PERFORMANCE REQUIREMENTS

- A. Sheet Metal Standard for Flashing and Trim: NRCA's "The NRCA Roofing Manual" and SMACNA's "Architectural Sheet Metal Manual".
- B. FM Approvals Listing: For copings and roof edge flashings for windstorm classification, Class 1-90.
- C. SPRI Wind Design Standard: For copings and roof edge flashings according to SPRI ES-1 for design pressure of:
 - 1. Zone 2 (roof edge perimeter, vertical load direction): 127.9 psf.
 - 2. Zone 3 (roof edge corners, vertical load direction): 192.5 psf.
 - 3. Zone 4 (wall edge perimeter, horizontal load direction): 82.7 psf.
 - 4. Zone 5 (wall edge corners, horizontal load direction): 102.0 psf.

1.3 MATERIALS

- A. Sheet Metals:
 - 1. Stainless-Steel Sheet, Type 304: 4 (directional satin) finish with smooth, flat surface.
 - 2. Metallic-Coated Steel Sheet:
 - a. Coil-Coated Finish: Two-coat fluoropolymer.
- B. Underlayment: Synthetic underlayment.

1.4 PRODUCTS

- A. Manufactured through-wall flashing with snaplock receiver.
- B. Manufactured reglets with counterflashing.
- C. Formed Roof-Drainage Fabrications: Including hanging gutters, downspouts, parapet scuppers, and conductor heads.
- D. Formed Low-Slope Roof Fabrications: Including roof edge flashing (gravel stop), copings, roof expansion-joint covers, base flashing, counterflashing, roof-penetration flashing, and roof-drain flashing.
- E. Formed Wall Fabrications: Including through-wall flashing and opening flashings in frame construction.

- F. Miscellaneous Formed Fabrications: Including equipment support flashing and overhead-piping safety pans.

END OF SECTION 076200

SECTION 077200 - ROOF ACCESSORIES

1.1 WARRANTY

- A. Painted Finishes: 20 years.

1.2 PRODUCTS

- A. Roof Curbs: Insulated with interior metal liner.
 - 1. Height: Minimum 12 inches (300 mm).
 - 2. Material: Stainless steel.
 - 3. Finish: Two-coat fluoropolymer.
 - 4. Wind restraint straps and attachments.
- B. Roof Hatches: Insulated with double-walled curbs.
 - 1. Height: Minimum 12 inches (300 mm).
 - 2. Hatch Lid: Opaque, single leaf.
 - 3. Material: Stainless steel.
 - 4. Finish: Two-coat fluoropolymer.
 - 5. Accessories: Safety railing system.
- C. Pipe Supports: Adjustable-height roller-bearing type.
- D. Duct Supports: Extruded aluminum, urethane insulated.
- E. Pipe Portals: Insulated, curb-mounted type with EPDM caps.

END OF SECTION 077200

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SECTION 078413 - PENETRATION FIRESTOPPING

1.1 QUALITY ASSURANCE

- A. Installer Qualifications: FM Global approved or UL qualified.

1.2 PENETRATION FIRESTOPPING

- A. Penetrations in Fire-Resistance-Rated Walls: F-ratings per ASTM E 814 or UL 1479.
- B. Penetrations in Horizontal Assemblies: F-, T-, and W-ratings per ASTM E 814 or UL 1479.
- C. Penetrations in Smoke Barriers: L-ratings per UL 1479.

1.3 INSTALLATION

- A. Identification: Walls and penetrations.

1.4 FIELD QUALITY CONTROL

- A. Inspection of Installed Firestopping: By authorities having jurisdiction.

END OF SECTION 078413

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SECTION 078443 - JOINT FIRESTOPPING

1.1 QUALITY ASSURANCE

- A. Installer Qualifications: FM Global approved or UL qualified.

1.2 FIRE-RESISTIVE JOINT SYSTEMS

- A. Joints in or between Fire-Resistance-Rated Construction: ASTM E 1966 or UL 2079.
- B. Joints at Exterior Curtain-Wall/Floor Intersections: ASTM E 119 or ASTM E 2307.

1.3 FIELD QUALITY CONTROL

- A. Inspection of Installed Firestopping: By authorities having jurisdiction.

END OF SECTION 078443

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SECTION 079200 - JOINT SEALANTS

1.1 PRECONSTRUCTION TESTING

- A. Preconstruction laboratory testing.
- B. Preconstruction field-adhesion testing.

1.2 WARRANTY

- A. Installer Warranty: Two years.
- B. Special Manufacturer's Warranty: Five years.

1.3 JOINT SEALANTS

- A. VOC Content of Interior Sealants:
 - 1. Architectural Sealants: 250 g/L.
 - 2. Sealant Primers for Nonporous Substrates: 250 g/L.
 - 3. Sealant Primers for Porous Substrates: 775 g/L.
- B. Silicone joint sealants.
- C. Nonstaining silicone joint sealants.
- D. Urethane joint sealants.
- E. Immersible joint sealants.
- F. Silyl-terminated polyether joint sealants.
- G. Mildew-resistant joint sealants.
- H. Butyl joint sealants.
- I. Latex joint sealants.
- J. Joint-sealant backing.

1.4 FIELD QUALITY CONTROL

- A. Field-adhesion testing.

1.5 SCHEDULE

- A. Exterior joints in horizontal traffic surfaces JS-1.
 - 1. Joint Sealant: Multi-component pourable urethane sealant.
- B. Exterior joints in horizontal traffic surfaces subject to water immersion JS-2.
 - 1. Joint Sealant: Multi-component pourable urethane sealant.
- C. Exterior joints in vertical surfaces and horizontal nontraffic surfaces JS-3.
 - 1. Joint Sealant: Single-component neutral-curing silicone sealant.
- D. Interior joints in vertical surfaces and horizontal nontraffic surfaces JS-4.
 - 1. Joint Sealant: Single-component neutral-curing silicone sealant.
- E. Interior joints in vertical surfaces and horizontal nontraffic surfaces not subject to significant movement JS-5.
 - 1. Joint Sealant: Single-component neutral-curing silicone sealant.
- F. Mildew-resistant interior joints in vertical surfaces and horizontal nontraffic surfaces JS-6.
 - 1. Joint Sealant: Single-component, mildew-resistant neutral-curing silicone sealant.
- G. Concealed mastics JS-7.
 - 1. Joint Sealant: Asphalt-based mastic.

END OF SECTION 079200

SECTION 079513.13 - INTERIOR EXPANSION JOINT COVER ASSEMBLIES

1.1 FLOOR EXPANSION JOINT COVERS

- A. Metal-plate floor joint cover.
- B. Center-plate floor joint cover.

1.2 WALL EXPANSION JOINT COVERS

- A. Metal-plate wall joint cover.
- B. Center-plate wall joint cover.

1.3 CEILING EXPANSION JOINT COVERS

- A. Metal-plate ceiling joint cover.
- B. Center-plate ceiling joint cover.

1.4 ACCESSORIES

- A. Moisture barriers.

END OF SECTION 079513.13

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SECTION 081113 - HOLLOW METAL DOORS AND FRAMES

1.1 INTERIOR DOORS AND FRAMES

- A. SDI Extra Heavy Duty: SDI A250.8, Level 3. Metallic-coated, cold-rolled steel sheet.
 - 1. Edge Construction: Model 2, Seamless.
 - 2. Core: Manufacturer's standard.
 - 3. Frames: Full profile welded.
 - 4. Exposed Finish: Prime.

1.2 EXTERIOR DOORS AND FRAMES

- A. SDI Extra Heavy Duty: SDI A250.8, Level 3. Metallic-coated, cold-rolled steel sheet.
 - 1. Edge Construction: Model 2, Seamless.
 - 2. Core: Polyurethane.
 - 3. Frames Full profile welded.
 - 4. Exposed Finish: Prime.
- B. SDI Maximum Duty: SDI A250.8, Level 4. Metallic-coated, cold-rolled steel sheet.
 - 1. Edge Construction: Model 2, Seamless.
 - 2. Core: Polyurethane.
 - 3. Frames Full profile welded.
 - 4. Exposed Finish: Prime.
- C. Accessories:
 - 1. Louvers: Sightproof, steel.
 - 2. Mullions and transom bars.

1.3 INSTALLATION

- A. Metal-Stud Partitions and Concrete Walls: Frames filled with insulation.
- B. Masonry Walls: Frames filled with grout.

END OF SECTION 081113

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SECTION 081416 - FLUSH WOOD DOORS

1.1 QUALITY ASSURANCE

- A. Manufacturer and Vendor: FSC certified for chain of custody.
- B. Manufacturer: Certified participant in AWI's Quality Certification Program.

1.2 DOOR CONSTRUCTION, GENERAL

- A. Quality Standard: Architectural Woodwork Standards or WDMA I.S.1-A.
 - 1. AWI Quality Certification Labels.
- B. Low-Emitting Materials: Made with adhesives and composite wood products that do not contain urea formaldehyde.

1.3 VENEER-FACED DOORS FOR TRANSPARENT FINISH

- A. Interior Solid-Core Doors <Insert drawing designation>:
 - 1. Grade: Premium, with Grade AA faces.
 - 2. Species: Select white birch.
 - 3. Cut: Plain sliced (flat sliced).
 - 4. Match between Veneer Leaves: Book match.
 - 5. Assembly of Veneer Leaves on Door Faces: Running match.
 - 6. Special Matching:
 - a. Pair and set match.
 - 7. Core: Either glued wood stave or structural composite lumber.
 - 8. Construction: Five plies, bonded.
 - 9. WDMA I.S.1-A Performance Grade: Heavy Duty.

1.4 LIGHT FRAMES AND LOUVERS

- A. Light-Opening Frames:
 - 1. Wood beads.
 - 2. Wood-veneered beads for fire doors.
- B. Louvers: Extruded aluminum with clear anodic finish.

END OF SECTION 081416

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SECTION 081816.16 - MULTIPANEL SLIDING ALUMINUM-FRAMED GLASS DOORS

1.1 QUALITY ASSURANCE

- A. Mockups for each form of construction.

1.2 WARRANTY

- A. Multipanel Sliding Aluminum-Framed Glass Doors: Five years.
- B. Laminated Glass: Five years.
- C. Aluminum Finish: Five Years.

1.3 MULTIPANEL SLIDING ALUMINUM-FRAMED GLASS DOORS

- A. Basis of Design Product: **Stanley ProCare 8300BP Bi-Part**
- B. Frames and Door Panels: Extruded aluminum.
 - 1. Panel Design: Narrow-stile design, with 10-inch (254-mm) nominal height bottom rail
 - 2. Stack Storage Configuration: Panels open from center to both sides, swing out, and are stored within opening.
 - 3. System Operation: Multitrack top-supported panel system.
- C. Glazing: Insulating glass.
- D. Grilles (false muntins).
- E. Aluminum Finishes: Class I, clear anodic.

END OF SECTION 081816.16

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SECTION 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

1.1 WARRANTY

- A. Materials and Workmanship: 10 years.
- B. Finish: 20 years.

1.2 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Contractor to design aluminum-framed systems.
- B. Windborne-Debris-Impact Resistance: Wind Zone 3.

1.3 SYSTEM COMPONENTS

- A. Framing Members:
 - 1. Construction: Thermally improved.
 - 2. Glazing System: Gaskets on four sides.
 - 3. Glazing Plane: Center.
 - 4. Basis of Design: "Kawneer IR 501-UT"
- B. Glazing: Section 088000 "Glazing."
- C. Entrance Doors:
 - 1. Door Construction: 1-3/4-inch overall thickness.
 - 2. Door Design: Wide stile.
 - 3. Glazing stops and gaskets.
 - 4. Basis of Design: Kawneer "500-IR Wide Stile"
- D. Entrance Door Hardware: As scheduled.

1.4 ALUMINUM FINISHES

- A. Aluminum Finishes: Class I, clear anodic.

1.5 FIELD QUALITY CONTROL

- A. Testing Agency: Contractor engaged.

1.6 MAINTENANCE SERVICE

- A. Entrance Door Hardware: Six months.

1.7 ENTRANCE DOOR HARDWARE SETS

- A. (To be provided in Construction Documents).

END OF SECTION 084113

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SECTION 084413 - GLAZED ALUMINUM CURTAIN WALLS

1.1 WARRANTY

- A. Materials and Workmanship: 10 years.
- B. Finish: 20 years.

1.2 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Contractor to design glazed aluminum curtain walls.
- B. Windborne-Debris-Impact Resistance: Wind Zone 3.

1.3 SYSTEM COMPONENTS

- A. Framing Members:
 - 1. Construction: Thermally broken.
 - 2. Glazing System: Gaskets on four sides.
 - 3. Glazing Plane: Front.
 - 4. Basis of Design: Kawneer "1600 Wall System 1 IR"
- B. Glazing: Section 088000 "Glazing."

1.4 ALUMINUM FINISHES

- A. Aluminum Finishes: Class I, clear anodic.

1.5 FIELD QUALITY CONTROL

- A. Testing Agency: Contractor engaged.

END OF SECTION 084413

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SECTION 087100 - DOOR HARDWARE

1.1 SUMMARY

- A. Mechanical door hardware for swinging doors.
- B. Cylinders for door hardware specified in other Sections.

1.2 WARRANTY

- A. Materials and Workmanship: Three years.

1.3 MAINTENANCE SERVICE

- A. Full-Maintenance Service: Six months.

1.4 PRODUCTS

- A. Scheduled Door Hardware: Products scheduled in "Door Hardware Schedule" in this Section.

1.5 FIELD QUALITY CONTROL

- A. Independent Architectural Hardware Consultant: Contractor-engaged to perform inspections.
- B. Occupancy Adjustment: After six months.

END OF SECTION 087100

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SECTION 088000 - GLAZING

1.1 SUMMARY

- A. Glass for doors, interior borrowed lites, storefront framing, glazed curtain walls.

1.2 WARRANTY

- A. Coated-Glass Products: 10 years.
- B. Laminated Glass: 10 years.
- C. Insulating Glass: 10 years.

1.3 PERFORMANCE REQUIREMENTS

- A. Engineering design of glass by Contractor.
- B. Windborne-Debris-Impact Resistance of Exterior Glazing: Wind Zone 3.

1.4 MATERIALS

- A. Silicone Glazing Sealants: Neutral curing, Class 50.
 - 1. Sealants: Low VOC.
- B. Glazing Tapes: Expanded-cellular type.

1.5 MONOLITHIC GLASS SCHEDULE (interior doors and borrowed lites)

- A. Glass Type: Clear fully tempered float glass.

1.6 LAMINATED GLASS SCHEDULE (exterior doors)

- A. Glass Type: Clear laminated glass; fully tempered float glass.

1.7 INSULATING-LAMINATED-GLASS TYPES (exterior storefront and curtainwall)

- A. Glass Type: Low-E-coated, tinted, insulating laminated glass.
 - 1. Outdoor Lite: Tinted fully tempered float glass.
 - 2. Indoor Lite: Clear laminated glass with two plies of fully tempered float glass.

END OF SECTION 088000

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SECTION 089119 - FIXED LOUVERS

1.1 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Contractor to design louvers.
- B. Wind Loads: Indicated on Drawings.
- C. Windborne-Debris-Impact Resistance: Louvers located within 30 feet (9.1 m) of grade pass enhanced-protection, large-missile testing requirements for Wind Zone 3.

1.2 PRODUCTS

- A. Fixed, Extruded-Aluminum Louvers:
 - 1. Horizontal Wind-Driven-Rain-Resistant Louver: 4 inches (100 mm) deep.
- B. Louver Screens:
 - 1. Provided at each exterior louver.
 - 2. Screening Type: Insect screening.
- C. Blank-Off Panels: Uninsulated.
- D. Finishes:
 - 1. Aluminum: Two-coat fluoropolymer.

END OF SECTION 089119

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SECTION 092216 - NON-STRUCTURAL METAL FRAMING

1.1 MATERIALS

A. Steel Framing for Framed Assemblies:

1. Steel studs and runners.
2. Dimpled steel studs and runners.
3. Slip-Type Head Joints:
 - a. Single long-leg runner.
 - b. Double runner.
 - c. Deflection track.
4. Firestop track.
5. Flat strap and backing plate.
6. Cold-rolled channel bridging.
7. Hat-shaped, rigid furring channels.
8. Resilient furring channels.
9. Cold-rolled furring channels.
10. Z-shaped furring.

B. Suspension Systems:

1. Wire hangers.
2. Flat hangers.
3. Carrying channels.
4. Furring channels.
5. Grid suspension systems for ceilings.

END OF SECTION 092216

SECTION 092900 - GYPSUM BOARD

1.1 QUALITY ASSURANCE

A. Mockups for the following:

1. Levels of gypsum board finish for use in exposed locations.
2. Texture finishes.

1.2 MATERIALS

A. Low Emitting Materials.

B. Interior Gypsum Board:

1. Gypsum wallboard.
2. Gypsum board, Type X.
3. Flexible gypsum board.
4. Gypsum ceiling board.
5. Abuse-resistant gypsum board.
6. Moisture- and mold-resistant gypsum board.

C. Tile-Backing Panels:

1. Cementitious backer units.

D. Trim Accessories:

1. Interior.
2. Aluminum: Extruded profiles.

E. Texture finishes:

1. Non-aggregate finish.

END OF SECTION 092900

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SECTION 093013 - CERAMIC TILING

1.1 QUALITY ASSURANCE

- A. Mockup for each type of floor tile installation.
- B. Mockup for each type of wall tile installation.

1.2 TILE PRODUCTS

- A. Tile Type CT-1: Glazed ceramic mosaic tile.
 - 1. Basis-of-Design Product: To be determined.
 - 2. Composition: Porcelain.
 - 3. Size: To be determined.
 - 4. Description: Restroom floor tile.
 - 5. Trim Shapes: Base cove, Coved internal corner.
- B. Tile Type CT-2: Glazed porcelain tile.
 - 1. Basis-of-Design Product: To be determined.
 - 2. Size: To be determined.
 - 3. Description: Restroom wall tile.
 - 4. Trim Shapes: Bead (bullnose) wainscot cap, Surface bullnose external corner, Coved internal corner.

1.3 ACCESSORY MATERIALS

- A. Thresholds: Granite or Marble.
- B. Tile Backing Panels: Cementitious backer units.
- C. Waterproof Membrane: Urethane waterproofing and tile-setting adhesive.
- D. Crack Isolation Membrane: Fabric-reinforced, fluid-applied membrane.
- E. Installation Adhesives: Low VOC.
- F. Metal edge strips.

1.4 INTERIOR TILE INSTALLATION SCHEDULE

- A. Interior Floors on Concrete:
 - 1. TCNA F125A: Thinset mortar on crack isolation membrane. Water-cleanable epoxy grout.
- B. Interior Walls, Wood or Metal Studs or Furring:
 - 1. TCNA W244: Thinset mortar on cementitious backer units underlayment. Standard grout.

END OF SECTION 093013

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SECTION 095113 - ACOUSTICAL PANEL CEILINGS

1.1 SUMMARY

- A. Acoustical panels and exposed suspension systems.

1.2 QUALITY ASSURANCE

- A. Mockups for each form of construction.

1.3 PRODUCTS

- A. Ceiling assemblies complying with low-emitting material requirements for LEED for Schools.

- B. Acoustical Ceiling Panels: ASTM E 1264.

1. Type and Form: Type III, mineral base with painted finish; Form 2, water felted.
2. Pattern: CE (perforated, small holes and lightly textured).
3. LR: Not less than 0.85.
4. NRC: Not less than 0.75.
5. CAC: Not less than 35.
6. AC: Not less than 170.
7. Thickness: 7/8 inch (22 mm).
8. Modular Size: 24 by 24 inches (610 by 610 mm).
9. Basis of Design: Armstrong "Fine Fissured High NRC", model number 1754.

- C. Metal Suspension Systems: ASTM C 635.

1. Wire hangers, braces, and ties.
2. Angle hangers.
3. Hold-down clips.
4. Wide-Face, Capped, Double-Web Steel: Heavy duty.
5. Basis of Design: Armstrong "Prelude XL 15/16" Exposed Tee"

- D. Metal Edge Moldings and Trim: Extruded aluminum.

- E. Acoustical Sealants: Low VOC.

1.4 INSTALLATION

- A. Installation: ASTM C 636.

END OF SECTION 095113

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SECTION 096513 - RESILIENT BASE AND ACCESSORIES

1.1 PRODUCTS

- A. Flooring System: Low-emitting for LEED for Schools.
- B. Resilient Base: Thermoplastic rubber.
 - 1. Style and Location:
 - a. Straight and Cove: As indicated in Drawings.
 - 2. Minimum Thickness: 0.125 inch (3.2 mm).
 - 3. Height: 4 inches (102 mm).
 - 4. Outside Corners: Preformed.
 - 5. Inside Corners: Preformed.
- C. Resilient Accessories: Rubber.
 - 1. Carpet edge for glue-down applications.
 - 2. Nosing for carpet.
 - 3. Nosing for resilient flooring.
 - 4. Reducer strip for resilient flooring.
 - 5. Joiner for tile and carpet.
 - 6. Transition strips.
- D. Installation Materials:
 - 1. Trowelable leveling and patching compounds.
 - 2. Adhesives: Low VOC.

END OF SECTION 096513

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SECTION 096516 - RESILIENT SHEET FLOORING

1.1 PRODUCTS

A. Vinyl Sheet Flooring:

1. Backing: None, unbacked.
2. Wearing Surface: Smooth.
3. Seamless-Installation Method: Chemically bonded.

B. Installation Materials:

1. Trowelable leveling and patching compounds.
2. Adhesives.
3. Integral-Flash-Cove-Base Accessories:
 - a. Cove strip.
 - b. Cap strip.
 - c. Corners.
4. Floor polish: If required by manufacturer.

END OF SECTION 096516

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SECTION 096519 - RESILIENT TILE FLOORING

1.1 PRODUCTS

- A. Solid Vinyl Floor Tile: Printed film vinyl tile.
 - 1. Surface: Embossed.
 - 2. Thickness: 0.180 inch.
 - 3. Size: To be determined during Design Development.
 - 4. Seamless-Installation Method: Chemically bonded.

- B. Installation Materials:
 - 1. Trowelable leveling and patching compounds.
 - 2. Adhesives: Low VOC.

END OF SECTION 096519

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SECTION 096723 - RESINOUS FLOORING

1.1 QUALITY ASSURANCE

- A. Mockups: For each resinous flooring system.

1.2 PRODUCTS

- A. Resinous Flooring and Integral Cove Base:

- 1. System Characteristics:

- a. Color and Pattern: As selected by Architect from manufacturer's full range.
 - b. Wearing Surface: Textured for slip resistance.
 - c. Overall System Thickness: 1/8 inch (3.2 mm).
 - d. USDA approved for food-processing environments.

- 2. System Components:

- a. Primer: High solids.
 - b. Body Coat(s):
 - 1) Resin: Epoxy.
 - 2) Formulation Description: High solids.
 - 3) Application Method: Self-leveling slurry with broadcast aggregates.
 - 4) Number of Coats: One.
 - 5) Thickness of Coats: 10 mils.
 - 6) Aggregates: Colored quartz (ceramic-coated silica).
 - c. Grout Coat:
 - 1) Resin: Epoxy.
 - 2) Formulation Description: High solids.
 - 3) Thickness of Coat: 10 mils.
 - d. Topcoat: Sealing or finish coats.
 - 1) Resin: Epoxy
 - 2) Formulation Description: High solids.
 - 3) Number of Coats: Two.
 - 4) Finish: Gloss.

1.3 FIELD QUALITY CONTROL

- A. Core sampling by Contractor.

END OF SECTION 096723

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SECTION 096813 - TILE CARPETING

1.1 QUALITY ASSURANCE

- A. Mockups for each type of carpet tile installation.

1.2 WARRANTY

- A. Carpet Tile Failure: 10 years.

1.3 PRODUCTS

- A. Carpet Tile:

1. Fiber: 100 percent nylon 6, 6.
2. Pile Characteristic: Patterened loop or Cut-and-loop pile.
3. Pile Thickness: .070 inches.
4. Total Weight: 21 oz./sq. yd.
5. Size: To be determined in Design Development.
6. Emissions: Comply with CRI's "Green Label Plus."
7. Emissions: Comply with LEED for Schools credit for low-emitting materials.

- B. Installation Adhesive: VOC content 50 g/L or less.

END OF SECTION 096813

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SECTION 097200 - WALL COVERINGS

1.1 QUALITY ASSURANCE

- A. Mockups for each type of wall covering on each substrate required.

1.2 PRODUCTS

- A. Vinyl Wall Covering:
 - 1. Stain-resistant coating.
- B. Adhesive.
- C. Primer/sealer.
- D. Wall liner.

END OF SECTION 097200

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SECTION 097523 - STONE WINDOW STOOLS

1.1 MATERIALS

- A. Stone Types:
 - 1. Quartz-Based Stone:
 - a. Basis of Design: Prestige Stone.
- B. Stone Adhesive: Epoxy resin or polyester resin.
- C. Joint Sealant: Silicone.
- D. Window Stools:
 - 1. Thickness: 3/4 inch (2.0 cm).
 - 2. Edge Detail: Straight.

1.2 INSTALLATION

- A. Stone Window Stools: Set in adhesive on framing or blocking with adhesively bonded joints.

END OF SECTION 097523

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SECTION 099123 - INTERIOR PAINTING

1.1 QUALITY ASSURANCE

- A. Mockups for each color and finish.

1.2 PAINT, GENERAL

- A. MPI-listed products.
- B. Low-Emitting Materials: Low-VOC.

1.3 INTERIOR PAINTING SCHEDULE

- A. CMU Substrates:
 - 1. High-performance architectural latex system.
- B. Steel Substrates:
 - 1. Water-based light industrial coating system.
- C. Wood Substrates: Wood trim.
 - 1. Latex over latex primer system.
- D. Gypsum Board Substrates:
 - 1. Latex over latex sealer system.

END OF SECTION 099123

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SECTION 101416 - PLAQUES

1.1 PLAQUES

- A. Cast Plaque: Aluminum.
 - 1. Finish: Clear anodized aluminum
 - 2. Integrally cast border.

1.2 MATERIALS AND ACCESSORIES

- A. Adhesives: VOC content of 70 g/L or less.

END OF SECTION 101416

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SECTION 101419 - DIMENSIONAL LETTER SIGNAGE

1.1 DIMENSIONAL CHARACTERS

A. Cast Characters: Bronze.

1. Character Height: As shown in drawings.
2. Finish: As selected by Architect.
3. Mounting: Concealed studs.
4. Typeface: Times Roman.

END OF SECTION 101419

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SECTION 101423 - PANEL SIGNAGE

1.1 SUMMARY

A. Section Includes:

1. Panel signs.
2. Field-applied, vinyl-character signs.

1.2 PANEL SIGNS

A. Panel Sign: Sign with exposed edges.

1. Solid-Sheet Sign: PVC sheet with surface-applied, raised graphics and etched and filled graphics.
2. Mounting: Surface mounted adhesive.

END OF SECTION 101423

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SECTION 101423.16 - ROOM-IDENTIFICATION PANEL SIGNAGE

1.1 SIGNS

- A. Room-Identification Sign: Sign or Sign system with exposed edges.
 - 1. Laminated-Sheet Sign: Photopolymer sheet with raised graphics.
 - a. Graphics: Changeable insert.
 - 2. Mounting: Surface mounted with adhesive.
 - 3. Text and Typeface: Accessible raised characters and Braille.

END OF SECTION 101423.16

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SECTION 102113.19 - PLASTIC TOILET COMPARTMENTS

1.1 SUMMARY

- A. Solid-plastic toilet compartments configured as toilet enclosures and urinal screens.
 - 1. Toilet-Enclosure Style: Overhead braced, Floor anchored.
 - 2. Urinal-Screen Style: Wall hung.

1.2 PERFORMANCE REQUIREMENTS

- A. Fire Performance: Tested in accordance with, and pass the acceptance criteria of, NFPA 286.
- B. Structural Performance: Where grab bars are mounted on toilet compartments, design panels to comply with the following requirements:
 - 1. Panels are able to withstand a concentrated load on grab bar of at least 250 lbf (1112 N) applied at any direction and at any point, without deformation of panel.
- C. Regulatory Requirements: Comply with applicable provisions in the USDOJ's "2010 ADA Standards for Accessible Design" for toilet compartments designated as accessible.

1.3 COMPONENTS

- A. Door, Panel, and Pilaster Construction: Solid, high-density polyethylene (HDPE) panel material with homogenous color throughout thickness of material. Provide with no-sightline system consisting of door and pilaster lapped edges on strike side of door and door and pilaster lapped edges on hinge side of door (unless continuous hinge is used).
 - 1. Integral Hinges: Configure doors and pilasters to receive integral hinges.
 - 2. Color: One color in each room as selected by Architect from manufacturer's full range.
- B. Brackets (Fittings):
 - 1. Full-Height (Continuous) Type: Stainless steel.

1.4 HARDWARE AND ACCESSORIES

- A. Hardware and Accessories:
 - 1. Hinges:
 - a. Manufacturer's standard hinge.
 - 2. Latch and Keeper: Manufacturer's surface-mounted latch unit; chrome-plated zamac finish.
 - 3. Coat Hook: Manufacturer's combination hook and rubber-tipped bumper; chrome-plated zamac finish.
 - 4. Door Bumper: Manufacturer's rubber-tipped bumper; chrome-plated zamac finish.

5. Door Pull: Manufacturer's unit; chrome-plated zamac finish.
- B. Hardware and Accessories, Heavy Duty: Manufacturer's heavy-duty stainless steel operating hardware and accessories.

END OF SECTION 102113.19

SECTION 102123 - CUBICLE CURTAINS AND TRACK

1.1 SUMMARY

A. Section Includes:

1. Cubicle-curtain support systems.
2. Cubicle curtains.

1.2 MOCKUPS

A. Mockups for each form of construction.

1.3 MATERIALS

A. Curtain Tracks:

1. Tracks: Aluminum, 1-1/4 inches wide by 3/4 inch high (32 mm wide by 19 mm high).
2. Aluminum Finish: Clear anodized or Baked enamel, acrylic, or epoxy.
3. Curved Track: 12-inch (305-mm) radius.
4. Curtain Carriers: Nylon rollers with chrome-plated hook.

B. Curtains:

1. Curtain Fabric: Polyester, flame resistant, stain resistant, and antimicrobial.
2. Mesh top.
3. Curtain Drop: Beaded chain.
4. Curtain tiebacks.

C. Curtain Fabrication: Continuous or Modular panels.

1.4 INSTALLATION

A. Curtain-Track Mounting: As indicated on Drawings.

END OF SECTION 102123

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SECTION 102233 - ACCORDION FOLDING PARTITIONS

1.1 WARRANTY

- A. Materials and Workmanship: Five years.

1.2 PERFORMANCE REQUIREMENTS

- A. Flame-Spread Index: 25 or less.

1.3 ACCORDION FOLDING PARTITIONS

- A. Accordion Folding Partitions:
 - 1. Partition Type: As indicated on Drawings.
 - 2. STC Rating: no less than 40.
 - 3. Facing Material: Vinyl-coated fabric.

END OF SECTION 102233

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SECTION 102600 - WALL AND DOOR PROTECTION

1.1 PERFORMANCE REQUIREMENTS

- A. Surface Burning Characteristics: Class A.
- B. Accessibility requirements of authority having jurisdiction.

1.2 PRODUCTS

A. Wall Guards:

- 1. Crash Rail: Plastic cover over continuous retainer.
 - a. Surface mounted.
- 2. Bumper Rail: Plastic cover over continuous retainer.
 - a. Surface mounted.
- 3. Rub Rail: Plastic, surface mounted.
- 4. Transparent-Plastic Chair Rail: Surface-mounted polycarbonate.

B. Corner Guards:

- 1. Surface-Mounted, Plastic-Cover Type: 8 feet (2.4 m) high, using one-piece aluminum.
- 2. Flush-Mounted, Plastic-Cover Type: 8 feet (2.4 m)] high, using one-piece aluminum retainer.
- 3. Fire-Rated, Flush-Mounted, Plastic-Cover Type : Same rating as wall in which corner guard is installed.

C. End-Wall Guards:

- 1. Surface-Mounted, Plastic-Cover Type: 8 feet (2.4 m) high.
- 2. Flush-Mounted, Plastic-Cover Type: 8 feet (2.4 m).
- 3. Fire-Rated, Flush-Mounted, Plastic-Cover Type: Same rating as wall in which end guard is installed.

D. Abuse-Resistant Wall Coverings:

- 1. Abuse-Resistant Sheet: Wainscot height.

E. Door Protection:

- 1. Protection Plates: Plastic armor, kick,

END OF SECTION 102600

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SECTION 102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES

1.1 PRODUCTS

- A. Public-Use Washroom Accessories:
 - 1. Combination toilet tissue dispenser.
 - 2. Countertop-mounted circular waste chute.
 - 3. Combination towel (folded) dispenser/waste receptacle.
 - 4. Warm-air hand dryer.
 - 5. Automatic soap dispenser.
 - 6. Grab bar.
 - 7. Sanitary-napkin disposal unit.
 - 8. Mirror unit.

- B. Private-Use Bathroom Accessories:
 - 1. Toilet tissue dispenser.
 - 2. Paper towel dispenser
 - 3. Soap dispenser.
 - 4. Robe hook.

- C. Childcare Accessories:
 - 1. Diaper-changing station.
 - 2. Diaper-changing station liner dispenser.
 - 3. Diaper-pack vendor.
 - 4. Child-protection seat.

- D. Underlavatory guards.

- E. Custodial Accessories:
 - 1. Utility shelf.
 - 2. Mop and broom holder.

- F. Hand-Sanitizer Dispensers:
 - 1. Hand-sanitizer dispenser.
 - 2. Automatic hand-sanitizer dispenser.

END OF SECTION 102800

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SECTION 104413 - FIRE PROTECTION CABINETS

1.1 PRODUCTS

A. Fire-Protection Cabinets:

1. Type: Fire extinguisher.
2. Cabinet Construction: Nonrated, and One-hour fire rated.
3. Mounting: Semirecessed.
4. Door Style: Solid opaque panel with frame.
5. Accessories: Door lock.
6. Finish:
 - a. Aluminum: Baked enamel or powder coat.

END OF SECTION 104413

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SECTION 104416 - FIRE EXTINGUISHERS

1.1 SUMMARY

- A. Section includes portable, hand-carried fire extinguishers and mounting brackets for fire extinguishers.

1.2 WARRANTY

- A. Materials and Workmanship: Six years.

1.3 PERFORMANCE REQUIREMENTS

- A. Fire Extinguishers: Complying with NFPA 10 and approved, listed, and labeled by FM Global.

1.4 PRODUCTS

- A. Portable Hand-Carried Fire Extinguishers:
 - 1. Multipurpose dry-chemical type.
- B. Mounting brackets.

END OF SECTION 104416

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SECTION 105123 - PLASTIC-LAMINATE-CLAD LOCKERS

1.1 PRODUCTS

- A. Basis of Design Product: Five at Heart; Pandora
- B. Plastic-Laminate-Clad Wood Lockers:
 - 1. Construction Style: Flush overlay.
 - 2. Final Assembly: Factory.
 - 3. Locker Body: Particleboard-core panels with thermally fused laminate overlay.
 - 4. Doors: Plastic-laminate clad.
 - 5. Continuous finish base.
 - 6. Continuously sloping tops.
 - 7. Plastic Laminate: Wood grains.
- C. Hardware:
 - 1. Locks: Built-in combination lock.
 - 2. Hinges: Frameless (European).
- D. Accessories:
 - 1. Mirrors.
 - 2. Security lock boxes.
 - 3. Security vaults.
 - 4. Number plates.
 - 5. Nameplates.

END OF SECTION 105123

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SECTION 117300 - PATIENT CARE EQUIPMENT

1.1 QUALITY ASSURANCE

- A. Mockups for each form of construction.

1.2 PRODUCTS

- A. Patient-Bed Locators:

- 1. Power Services: Normal power and low-voltage power and communication.

- B. Patient-Bed Service Walls: Horizontal type.

- 1. Medical Gas Services: Medical air.
 - 2. Medical vacuum services.
 - 3. Gas manifold.
 - 4. Power Services: Normal low-voltage and isolated power.

END OF SECTION 117300

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SECTION 122413 - ROLLER WINDOW SHADES

1.1 PRODUCTS

- A. Manual, chain-and-clutch operating mechanism.
- B. Roller Mounting Configuration: Manufacturer's standard for skylight shade operating mechanism indicated.
- C. Installation Accessories: Front fascia.
- D. Shadeband Materials: Complying with NFPA 701.
 - 1. Light-Filtering Fabric: PVC-coated fiberglass.
 - 2. Light-Blocking Fabric: Fiberglass textile with PVC film bonded to both sides.
- E. Product Safety Standard: WCMA A 100.1.

1.2 INSTALLATION

- A. Between (inside) jamb installation.
- B. Factory-authorized representative to train Owner's personnel to maintain motorized operators.

END OF SECTION 122413

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SECTION 123216 - MANUFACTURED PLASTIC-LAMINATE-CLAD CASEWORK

1.1 SUMMARY

- A. Section Includes:
 - 1. Plastic-laminate-clad casework.
 - 2. Hardware and accessories.

1.2 WARRANTY

- A. Materials and Workmanship: Five years.

1.3 CASEWORK, GENERAL

- A. Quality Standard: AWI/AWMAC/WI's "Architectural Woodwork Standards."
 - 1. Grade: Custom.

1.4 FABRICATION

- A. Interior: Thermally fused laminate panels.
- B. Drawer Bodies: Wood or plywood.

1.5 MATERIALS

- A. Hardware:
 - 1. Hinges: Frameless, concealed (European type).
 - 2. Pulls: Wire .
 - 3. Label holders.
 - 4. Drawer and door locks.

END OF SECTION 123216

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SECTION 123661.19 - QUARTZ AGGLOMERATE COUNTERTOPS

1.1 QUARTZ AGGLOMERATE COUNTERTOPS

- A. Front: Straight, slightly eased edge.
- B. Backsplash and End Splash: Eased edge.
- C. Countertops: 1/2-inch- (12.7-mm-) or 3/4-inch- (19-mm-) thick, quartz agglomerate.

1.2 INSTALLATION

- A. Install on plywood subtops at sink locations where 1/2-inch material is used with adhesive.

END OF SECTION 123661.19

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SECTION 126100 - FIXED AUDIENCE SEATING

1.1 SUMMARY

- A. Section includes fixed, chair-type seating with the following:
 - 1. Fixed audience seating.
 - 2. Lecture-hall tables.

1.2 QUALITY ASSURANCE

- A. Mockups for each type of seating.

1.3 WARRANTY

- A. Materials and Workmanship:
 - 1. Structural: Five years.
 - 2. Operating Mechanisms: Five years.
 - 3. Electrical Components: Five years.
 - 4. Plastic, Wood, and Paint Components: Five years.

1.4 MATERIALS

- A. Fabric: 100% polyurethane, 25 oz. per lineal yard.

1.5 FIXED AUDIENCE SEATING

- A. Basis-of-Design Product: Hussey Quatro.
- B. Chair Mounting:
 - 1. Standards: Floor attached; steel.
 - 2. Beam: Mounted on floor-attached pedestals.
 - 3. Pedestal: Floor-attached base.
- C. Fabric Upholstered Chairs:
 - 1. Backs: Padded.
 - a. Outer Back Surface: Molded plastic.
 - 2. Seats: Two part.
 - a. Seat Bottom: Molded-plastic shell.

- D. Plastic Chairs: Single or Double-wall molded plastic.
 - 1. Back: Smooth surface with upholstered inserts.
 - 2. Seat: Smooth surface with upholstered inserts.
- E. Back Height: 35 inches (889 mm).
- F. Back Pitch: Fixed.
- G. Chair Seat Hinges: Self-rising, spring actuated.
- H. Armrests: Plastic, and integral cup holder.
- I. Aisle-Lighting Fixtures: Round or Rectangular louvered.
- J. Power and Data Service Package: Power receptacles and data ports to each seat location.
- K. Tablet Arms: Standard-size, foldaway tablet arm with plastic-laminate writing surface.
- L. Accessible Seating:
 - 1. Chairs without armrests at 5 percent of aisle seats.

1.6 LECTURE-HALL TABLES

- A. Basis-of-Design Product: Sedia Systems; V8000 Modular Seating.
- B. Supports: Attached to floor.
- C. Table Top: Plastic laminate on MDF.
- D. Modesty Panels: Partial-height panels, matching table top.

END OF SECTION 126100

SECTION 142123.16 - MACHINE ROOM-LESS ELECTRIC TRACTION PASSENGER ELEVATORS

1.1 SUMMARY

- A. Passenger and service elevators.

1.2 ELEVATORS

- A. Rated Load: 5000 lb (2270 kg).
- B. Rated Speed: 150 fpm (0.75 m/s).
- C. Operation System: Single elevator.
- D. Dual car-control stations.
- E. Car Enclosures: Enameled steel with removable wall panels and removable roof.
 - 1. Inside Width: 68 inches (1727 mm).
 - 2. Inside Depth: 93-1/2 inches (2375 mm).
 - 3. Inside Height: 93 inches (2362 mm).
 - 4. Front Walls (Return Panels): Stainless steel.
 - 5. Side and Rear Wall Panels: Plastic laminate.
 - 6. Doors: Stainless steel.
 - 7. Door Sills: Aluminum.
 - 8. Ceiling: Luminous ceiling.
 - 9. Handrails: Stainless steel.
 - 10. Floor: Carpet.
 - 11. Floor: Prepared to receive stone or ceramic tile.
- F. Hoistway Entrances:
 - 1. Width: 48 inches (1219 mm).
 - 2. Height: 84 inches (2134 mm).
 - 3. Type: Single-speed side sliding.
 - 4. Frames at First Floor: Stainless steel.
 - 5. Frames at Other Floors: Stainless steel.
 - 6. Doors at First Floor: Stainless steel.
 - 7. Doors at Other Floors: Stainless steel.
 - 8. Sills: Aluminum
- G. Hall Fixtures at First Floor: Stainless steel.
- H. Hall Fixtures at Other Floors: Stainless steel.

1.3 TRACTION SYSTEMS

- A. Regenerative system.

- B. Roller guides or polymer-coated, nonlubricated sliding guides.

1.4 SIGNAL EQUIPMENT

- A. Car Control Stations: Semirecessed or recessed type.
- B. Firefighters' two-way telephone communication service.
- C. Fire-command-center annunciator panel.

1.5 MAINTENANCE

- A. Full Maintenance Service: 12 months.

END OF SECTION 142123.16

Facility Planning & Control STATEMENT OF PROBABLE COST

DATE: July 28, 2023PROJECT: New Nursing Building, Nicholls State UniversityPROJECT NO: 19-621-22-01 WBS NO: F.19002436LOCATION: Nicholls State University, Thibodaux, LouisianaDESIGN PROFESSIONAL: Gros Flores Positerry, LLC & Duplantis Design Group, PC, A Joint VentureTOTAL NEW AREA BEING CONSTRUCTED: 34,305 sq. ft.TOTAL EXISTING AREA BEING RENOVATED: 0 sq. ft.PROJECT PHASE: Schematic Design A F C: \$15,350,000.00

			<u>PER CENT</u>	<u>AMOUNT</u>
DIVISION	1	General Requirements	<u>6%</u>	<u>\$921,000.00</u>
DIVISION	2	Existing Conditions	<u>.5%</u>	<u>\$76,750.00</u>
DIVISION	3	Concrete	<u>7%</u>	<u>\$1,074,500.00</u>
DIVISION	4	Masonry	<u>7%</u>	<u>\$1,074,500.00</u>
DIVISION	5	Metals	<u>10.5%</u>	<u>\$1,611,750.00</u>
DIVISION	6	Woods and Plastics	<u>1%</u>	<u>\$153,500.00</u>
DIVISION	7	Thermal & Moisture Protection	<u>8%</u>	<u>\$1,228,000.00</u>
DIVISION	8	Openings	<u>4.5%</u>	<u>\$690,750.00</u>
DIVISION	9	Finishes	<u>15%</u>	<u>\$2,302,500.00</u>
DIVISION	10	Specialties	<u>1%</u>	<u>\$153,500.00</u>
DIVISION	11	Equipment	<u>1%</u>	<u>\$153,500.00</u>
DIVISION	12	Furnishings	<u>2%</u>	<u>\$307,000.00</u>
DIVISION	13	Special Construction	<u>0</u>	
DIVISION	14	Conveying Equipment	<u>.5%</u>	<u>\$76,750.00</u>
DIVISION	21	Fire Suppression	<u>5.5%</u>	<u>\$844,250.00</u>
DIVISION	22	Plumbing	<u>3.5%</u>	<u>\$573,250.00</u>
DIVISION	23	Heating, Ventilating & Air Conditioning	<u>6%</u>	<u>\$921,000.00</u>
DIVISION	26	Electrical	<u>10%</u>	<u>\$1,535,000.00</u>
DIVISION	27	Communications	<u>0</u>	
DIVISION	31	Earthwork	<u>3%</u>	<u>\$460,500.00</u>
DIVISION	32	Exterior Improvements	<u>4%</u>	<u>\$614,000.00</u>
DIVISION	<u>33</u>	<u>Utilities</u>	<u>4%</u>	<u>\$614,000.00</u>
DIVISION	<u>—</u>	<u>_____</u>	<u>_____</u>	

Facility Planning & Control
9. CODE ANALYSIS & ADA STANDARDS COMPLIANCE

The purpose of the Analysis of the Louisiana Building Code for State owned buildings is to assure that the Designer follows the applicable requirements of the code in the design and preparation of the Construction Documents for the project. In addition to the Code, the Designer shall design the project to be fully compliant with **2010 Standards for Accessible Design** as well as all applicable provisions of the Americans with Disabilities Act (ADA), including but not limited to the standards contained in 28 CFR 35 (Nondiscrimination on the Basis of Disability in State and Local Government Services), 28 CFR 36 (Nondiscrimination on the Basis of Disability by Public Accommodations and in Commercial Facilities), 28 CFR 36 Appendix A (Standards for Accessible Design) referred herein as ADA Standards. Recognizing that each project is unique, the information requested should be considered the minimum required and additional information should be included as necessary. The analysis is to be submitted by the Designer with both the Schematic Design and the Design Development Phase submittal to Facility Planning and Control. Give the minimum requirement of the code and the paragraph reference number where the information is located. Performance based design shall only be used to comply with code requirements with the concurrence of Facility Planning and Control. The designer is reminded that code compliance is the responsibility of the designer.

The Designer shall design the project to be fully compliant with all applicable Americans with Disability Act (ADA) standards and shall completely document all such features of the design. See the following section entitled Americans with Disabilities Act Design & Construction Standards.

The following is a guide format for the Designer in the preparation of this analysis.

CODE ANALYSIS
LOUISIANA BUILDING CODE FOR STATE OWNED BUILDINGS

PROJECT TITLE New Nursing Building Nicholls State University **DATE** 07/28/23

PROJECT NUMBER 19-621-22-01 **PART NO.** _____ **WBS NO.** F.19002436

PRIMARY DESIGNER Gros Flores Positerry, LLC & Duplantis Design Group, PC, A Joint Venture

List edition date for the following references:

Life Safety Code (NFPA 101)	<u>2015</u>	International Building Code	<u>2021</u>
International Mechanical Code	<u>2021</u>	National Electric Code (NFPA 70)	<u>2020</u>
International Plumbing Code	<u>2021</u>		
International Residential Code, Part VII Plumbing			<u>N/A</u>
Americans with Disabilities Act Accessibility Guidelines			<u>2010</u>
Title 51 – State Sanitary Code (As Applicable)			<u>(current)</u>

I. OCCUPANCY

Occupancy classification of the structure (include mixed or sub-occupancies).
 NFPA Mixed (Business and Assembly <300 IBC Mixed Use (Group B and Group A-3)
 Classification of Hazard of Contents.
 NFPA Ordinary IBC Moderate
 Minimum Construction Requirements.
 NFPA Business: Reserved (38.1.6); Assembly <300: Type II – Table 12.1.6

IBC Type II-B; for both Group B and Group A-3 treated as separate occupancies

Sprinkler System Requirement of	NFPA <u>Yes</u>	IBC <u>Yes</u>
Required by program <u>Yes</u> (yes)	<u>(no)</u>	
Fire Alarm System Requirement of	NFPA <u>Yes</u>	IBC <u>Yes</u>
Required by program <u>Yes</u> (yes)	<u>(no)</u>	

List detailed occupancy requirements for NFPA 101 and IBC (show sections referenced).

II. BUILDING SHELL

Building area per floor. First Floor: 17,800 SF
Second Floor: 16,505 SF
 Total net area (multi-story) 34,305 SF
 Occupancy per floor by First Floor: NFPA 528 IBC _____
 Second Floor: NFPA 155 IBC _____
 Total occupancy by NFPA 683 IBC _____
 Finished grade elevation 9.75 (feet)
 Building height above grade 55 (feet) 2 (stories)
 Building height below grade TBD (feet) _____ (stories)
 Separation distance from exterior walls to property lines.
 Percent of exterior openings per floor.

III. TYPE OF CONSTRUCTION

Minimum type of construction acceptable for project.
 NFPA Type II (000) IBC Type II-B

Maximum allowable heights and floor areas for Types of Construction and Occupancy Classifications (show sections referenced).
 NFPA _____
 IBC Allowable Building Height (Table 504.3): 75 feet
Allowable No. of Stories Above Grade (Table 504.4): 4
Allowable Area Factor (Table 506.2): 69,000 SF

List Construction Rating Requirements for NFPA 101 and IBC, show both paragraph and requirement.

Party Walls	NFPA <u>N/A</u>	IBC <u>N/A</u>
Fire Walls	NFPA <u>as req'd</u>	IBC <u>as req'd</u>
Shaft Enclosures (vertical openings)	NFPA <u>1hrs.</u>	IBC <u>1 hrs.</u>
Interior Bearing Walls-one floor only	NFPA <u>0 hrs. (NFPA 220)</u>	IBC <u>0 hrs. (Table 601)</u>
more than one floor	NFPA <u>0 hrs. (NFPA 220)</u>	IBC <u>0 hrs. (Table 601)</u>
roof only	NFPA <u>0 hrs. (NFPA 220)</u>	IBC <u>0 hrs. (Table 601)</u>
Interior Non-Bearing Partitions	NFPA <u>0 hrs. (NFPA 220)</u>	IBC <u>0 hrs. (Table 601)</u>
Columns one floor only	NFPA <u>0 hrs. (NFPA 220)</u>	IBC <u>0 hrs. (Table 601)</u>
more than one floor	NFPA <u>0 hrs. (NFPA 220)</u>	IBC <u>0 hrs. (Table 601)</u>
roof only	NFPA <u>0 hrs. (NFPA 220)</u>	IBC <u>0 hrs. (Table 601)</u>
Beams, Girders, etc.-one floor only	NFPA <u>0 hrs. (NFPA 220)</u>	IBC <u>0 hrs. (Table 601)</u>
more than one floor	NFPA <u>0 hrs. (NFPA 220)</u>	IBC <u>0 hrs. (Table 601)</u>

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roof only	NFPA <u>0 hrs. (NFPA 220)</u> IBC <u>0 hrs. (Table 601)</u>
Floor/Ceiling Construction	NFPA <u>0 hrs. (NFPA 220)</u> IBC <u>0 hrs. (Table 601)</u>
Roof/Ceiling Construction	NFPA <u>0 hrs. (NFPA 220)</u> IBC <u>0 hrs. (Table 601)</u>
Exterior Bearing Walls	NFPA <u>0 hrs. (NFPA 220)</u> IBC <u>0 hrs. (Table 602)</u>
Exterior Non-Bearing Walls	NFPA <u>0 hrs. (NFPA 220)</u> IBC <u>0 hrs. (Table 602)</u>

List special requirements, i.e.:
 finish materials, combustible materials, roof coverings, etc. (show sections referenced)

IV. SEPARATION REQUIREMENTS

Occupancy Separation	NFPA <u>N/A</u>	IBC <u>N/A</u>
Partitions within tenant space	NFPA <u>N/A</u>	IBC <u>N/A</u>
Tenant Separation	NFPA <u>N/A</u>	IBC <u>N/A</u>
NFPA	<u>N/A</u>	
IBC	<u>N/A</u>	

V. MEANS OF EGRESS

Capacity of Egress per floor	First Floor: 2,160	NFPA <u>7.3.3</u>	IBC <u>1004</u>
	Second Floor: 360	NFPA <u>7.3.3</u>	IBC <u>1004</u>

Requirements for separation of exits (show sections referenced).

NFPA	<u>Section 7.5</u>
IBC	<u>Section 1006</u>

Special Use Rooms	NFPA <u>N/A</u>	IBC <u>N/A</u>
Special Requirements	NFPA <u>N/A</u>	IBC <u>N/A</u>
Stair separation	1-hr. NFPA <u>7.1.3.2.1(1)</u>	IBC <u>713.4</u>
Horizontal Exit	NFPA <u>N/A</u>	IBC <u>N/A</u>
Corridors, Exit Access	0-hr. NFPA <u>38.3.6.1</u>	IBC <u>1020</u>
Corridors, Exit Passageways	NFPA <u>N/A</u>	IBC <u>N/A</u>
Smoke Partitions	NFPA <u>38.2.2.4</u>	IBC <u>710</u>
Doors	NFPA <u>38.2.2.2</u>	IBC <u>710.5/1007</u>
Illumination Requirements	NFPA <u>38.2.8</u>	IBC <u>1008</u>
Emergency Lighting Requirements	NFPA <u>38.2.9</u>	IBC <u>1008</u>
Signage	NFPA <u>7.10</u>	IBC <u>1009.9/1013</u>
Maximum Dead End Corridors	50 ft. (sprink.) NFPA <u>38.2.5.2.1</u>	IBC <u>1020.5(2)</u>
Maximum Common Path of Travel	100 ft. (sprink.) NFPA <u>38.2.5.3.1</u>	IBC <u>1006.2.1</u>
Maximum Travel Distance to Nearest Exit	300 ft. (sprink.) NFPA <u>38.2.6.3</u>	IBC <u>1017.2</u>

VI. DESIGN LOADS

Minimum Dead Loads	50 psf (floor); 20 psf (roof)	IBC <u>Section 1606</u>
Minimum Live Loads	50 psf (floor); 20 psf (roof)	IBC <u>Section 1607.3</u>
Minimum Concentrated Loads	2000 lb (floor); 300 lb roof	IBC <u>Section 607.4</u>
Roof Live Loads	20 psf	IBC <u>Section 1607.14</u>

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Impact Loads		as required by elevator	IBC <u>Section 1607.11</u>
Wind Loads	Walls	to be determined	IBC <u>Section 1609</u>
	Roofs	to be determined	IBC <u>Section 1609</u>
Seismic Loads		to be determined	IBC <u>Section 1613</u>

Facility Planning & Control

Americans with Disabilities Act Design & Construction Standards

The Designer shall design the project to be fully compliant with **2010 Standards for Accessible Design** as well as all applicable Americans with Disabilities Act (ADA) standards, including but not limited to the standards contained in 28 CFR 35 (Nondiscrimination on the Basis of Disability in State and Local Government Services), 28 CFR 36 (Nondiscrimination on the Basis of Disability by Public Accommodations and in Commercial Facilities), 28 CFR 36 Appendix A (Standards for Accessible Design) herein referred to as ADA Standards and La. R.S. 40:1731-1744. The Designer shall completely document all such features of the design and their compliance with all relevant ADA standards.

It is the Designer's responsibility and duty to determine the applicability of these standards. Those standards shall be detailed in the plans and specifications and located on the specific drawing sheet where it applies, i.e. restroom layout on the plumbing plan as well as on the architectural plan. **All ADA compliance features shall be completely designed and detailed with all plans, elevations, sections, details, dimensions, notes, references, etc.** It is especially important when dimensions are specifically expressed in the ADA Standards as the maximum or minimum dimension allowed, this information must be emphasized on the plans. It is important to keep in mind that this list is limited in nature and not a comprehensive list of all ADA Standards requirements. The Designer is responsible for **all** ADA Standards requirements.

The Designer shall not use statements such as: "Comply with ADA requirements" in an effort to comply with this requirement. It is the Designer's duty, not the contractor's, to verify that the design complies with all ADA requirements.

The Designer shall not simply include a sheet in the design package showing the ADA Standards from the ADA Standards manual. The information required for compliance should be inserted into the specific drawing where it applies.

The following are areas of ADA Standards which Facility Planning and Control considers particularly important. Detailed requirements for design and detailing of these areas are described below. These areas represent only a small number of the requirements included in the ADA Standards. This list is not only to assist the Designer in clearly documenting compliance with ADA Standards in these specific areas but the descriptions shall also serve as typical examples of how all ADA features are to be designed and detailed. This list is **not** to be considered comprehensive and simply completing each of these items will **not** constitute due diligence on the part of the Designer. Compliance with the ADA Standards and all other ADA requirements is entirely the responsibility of the Designer. If any failure on the part of the Designer to adequately design, detail and verify compliance with the Americans with Disabilities Act Accessibility Guidelines or standards results in additional costs to the Owner, the Designer will be held responsible.

1. **Parking:** Parking areas for handicapped individuals must be identified to include the proper maximum slopes allowed and placement of signage. Accessible parking spaces must be clearly identified in plan so they can be counted. Width and length of spaces and access isles shall be dimensioned and slopes called out. Sign information shall be shown graphically, sign locations shall be dimensioned, and heights called out or dimensioned in elevation. Vertical clearance shall

EXHIBIT C

be called out or dimensioned in elevation at parking spaces and long access route. Curb ramps shall be dimensioned including the length, width, distance from adjacent obstructions and slopes of the ramp and flared sides with surface texture and markings indicated.

2. **Accessible routes:** Accessible routes to and from the building must include detectable warnings, curb cuts, all allowable slopes, including the walkways, and signage, and must be detailed on the plans. Required accessible routes shall be indicated in plan and the width dimensioned in plan including turns around obstructions, passing spaces, etc. Vertical clearance shall be called out or dimensioned in elevation at all changes. Surface textures shall be delimited and dimensioned. Changes in levels shall be dimensioned as called for in 3., Ramps.
3. **Ramps:** Widths and lengths of ramps and their landings shall be dimensioned in plan and slopes called out or dimensioned in section with all slope changes indicated. Handrails must be dimensioned in plan and elevation including cross sections of gripping surfaces.
4. **Stairs:** Widths and lengths of stairs and their landings shall be dimensioned in plan and section and treads and riser dimensions and profiles shown. Handrails must be dimensioned in plan and elevation including cross sections of gripping surfaces.
5. **Doors and Entrances:** All doors should be provided maneuvering clearances, accessible hardware & thresholds where required. The clear width of all door openings shall be dimensioned in plan or scheduled. All maneuvering clearances shall be dimensioned according to 2010 Standards for Accessible Design section 404.2. See attached. Accessible hardware, including closers, and thresholds shall be scheduled or detailed and manufacturer's information clearly detailing compliance with the ADA Standards shall be provided.
6. **Signage:** Signage providing direction or room usage must be mounted at the correct locations and heights. Character proportion, character height and characteristics of raised and brailled characters and pictorial symbols as well as finish and contrast shall be specified. Mounting heights and locations shall be dimensioned in elevation but may be called out.
7. **Restroom fixtures:** Restroom fixtures with their supporting devices have very specific installation requirements. These must be detailed on the plans and verified during construction. Clearance dimensions shall be shown in plan and heights shown in elevation. Mounting heights for grab bars and other accessories shall be dimensioned in elevation or called out as indicated in 2010 Standards for Accessible Design section 604.5. Construction features, such as wall thickness that may affect locations must be taken into consideration. Potential variations from the plans in such things as wall thickness in the field must also be taken into consideration.
8. **Appliances and Cabinets:** Counters, drinking fountains, kitchen counters and cabinets have specific dimensions which must be shown on the plans, adhered to closely and verified during construction. Counters, drinking fountains, kitchen counters and cabinets shall be dimensioned in plan, elevation and section.
9. **Changes:** Change orders or substitutions must be checked to determine if they affect any ADA requirements. For example, a change in flooring could affect the final height of a counter. Change orders and addenda affecting any of the foregoing shall meet the same requirements as stated above.

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10. **Tolerances:** Where minimum or maximum dimensions are called for by ADA Standards, the designer shall typically include allowances to ensure compliance unless this is not feasible.
11. **Analysis:** The Designer shall provide an analysis of the project identifying the accessible route, compliant doors, and other compliant features listed above.

Verification during construction that work is complying with design documents is the responsibility of the Designer and this shall include compliance with any ADA requirement. The Designer is reminded that the foregoing list includes only selected items from ADA Standards on which Facility Planning and Control is focusing at this time. It is **not** in any way to be considered a complete or comprehensive list. Compliance with the full range of ADA requirements is the sole responsibility of the Designer. The features on this list, while limited, shall serve as examples of how all ADA features shall be designed and detailed.

Facility Planning and Control

PERCENT FOR UNIVERSAL DESIGN PROGRAM

Applicability

These requirements shall apply to the construction or renovation of all state buildings for which the estimated construction cost exceeds **two million dollars**.

Definitions

For the purposes of this program, the following terms shall have the indicated meanings.

Construction—the process of adding structure to real property by acquiring and assembling the components of buildings or other physical improvements.

Renovation—construction to modify, alter or change an existing building for the purpose of adaptive reuse, reconstruction or restoration and may include modification of any or all building systems. It does not, however, include a project the principal purpose of which is the rehabilitation of plumbing, heating, ventilating, air conditioning, electrical or other systems whose purpose is strictly utilitarian.

State Building—any building, facility, structure, or park built or renovated using state funds that will be owned by a department or agency in the executive, judicial, or legislative branch of state government, including any state-owned lands or space surrounding or integral to the building. "State building" does not include vehicular bridges and tunnels, or other non-integral structures whose purpose is strictly utilitarian.

State Funds or State Money—shall not include federal funds or insurance proceeds for the construction, replacement, renovation, or improvement of a state building damaged by a natural catastrophe when conditions governing the expenditure of such monies specifically preclude their use for the utilization and implementation of universal design features, nor shall it include state monies used as a match for such federal funds or insurance proceeds.

Universal Design—as more fully defined in the attached list of Principles of Universal Design, means certain design features that are not currently required by the Americans with Disabilities Act of 1990.

Process

In order to allow for the highest level of flexibility, innovation and imagination to be applied to the implementation of the Principles of Universal Design, these rules establish the philosophical concepts that are to be utilized in the design, construction or renovation of state buildings.

1. Features following the Principles of Universal Design will be determined by the designer and confirmed by the owner.

a. As part of the Design Development services, the designer will review the Principles of Universal Design, existing examples of universal design and other information and use this information to identify and develop features that utilize universal design principles as well as conforming to the mission of the project.

b. The designer will translate these principles into design features the cost of which will make up at least 2% of the estimated construction cost.

c. As part of the Design Development submittal, the designer will provide a report using the attached format.

d. The project manager will review this report and verify that the features follow the Principles of Universal Design and that the cost allocation is reasonable. As part of the project manager's response to the Design Development submittal he will approve of the report or require re-submittal.

e. Approval of this report will authorize the designer to incorporate the features in the project design. Once approved, this report will be final and will serve as the documentation of compliance with the provisions of RS 38:2318.2 unless the project scope is changed in such a way that the estimated construction cost is increased by more than 2 percent. If this situation obtains, the designer shall modify his/her report by including additional features or expanding existing ones to maintain the minimum 2 percent.

f. Questions about the validity of proposed universal design features between the designer and the project manager that cannot be resolved may be referred to an advisory group established by AIA Louisiana (Louisiana Chapter of the American Institute of Architects) in

accordance with RS 38:2318.2(F)(1) Features determined to be invalid will not be included in the approved list and the designer will modify his/her report to include additional features or expand existing ones to maintain the minimum 2 percent. (1)(a) Equitable Use. The design is useful and marketable to people with diverse abilities.

g. If the construction contract award amount varies from the estimated construction cost it will be assumed that all costs vary on a proportional basis and therefore the cost of the universal design features will continue to represent 2 percent of the total cost.

Facility Planning and Control

PERCENT FOR UNIVERSAL DESIGN PROGRAM

Guidelines

1. **Equitable Use.** The design is useful and marketable to people with diverse abilities.

Guidelines: Provides the same means of use for all users: identical whenever possible; equivalent when not. Avoids segregating or stigmatizing any users. Incorporates provisions for privacy, security, and safety that should be equally available to all users. Makes the design appealing to all users.

2. **Flexibility in Use.** The design accommodates a wide range of individual preferences and abilities.

Guidelines: Provides choice in methods of use. Accommodates right or left handed access and use. Provides adaptability to the user's pace.

3. **Simple and Intuitive Use.** Use of the design is easy to understand, regardless of the user's experience, knowledge, language skills, or current concentration level.

Guidelines: Eliminates unnecessary complexity. Consistent with user expectations and intuition. Accommodates a wide range of literacy and language skills. Arranges information consistent with its importance. Provides effective prompting and feedback during and after task completion.

4. **Perceptible Information.** The design communicates necessary information effectively to the user, regardless of ambient conditions or the user's sensory abilities.

Guidelines: Uses different modes (pictorial, verbal, tactile) for redundant presentation of essential information. Provides adequate contrast between essential information and its surroundings.

Maximizes "legibility" of essential information. Differentiates elements in ways that can be described which includes making it easy to give instructions or directions. Provides compatibility with a variety of techniques or devices used by people with sensory limitations.

5. **Tolerance for Error.** The design minimizes hazards and the adverse consequences of accidental or unintended actions.

Guidelines: Arranges elements to minimize hazards and errors: most used elements, most accessible; hazardous elements eliminated, isolated, or shielded. Provides warnings of hazards and errors. Provides fail-safe features. Discourages unconscious action in tasks that require vigilance.

6. **Low Physical Effort.** The design can be used efficiently and comfortably and with a minimum of fatigue.

Guidelines: Allows user to maintain a neutral body position. Uses reasonable operating forces. Minimizes repetitive actions. Minimizes sustained physical effort.

7. **Size and Space for Approach and Use.** Appropriate size and space is provided for approach, reach, manipulation, and use regardless of user's body size, posture, or mobility.

Guidelines: Provides a clear line of sight to important elements for any seated or standing user. Makes reach to all components comfortable for any seated or standing user. Accommodates variations in hand and grip size. Provides adequate space for the use of assistive devices or personal assistance.

EXHIBIT C

<p style="text-align: center;">Facility Planning & Control Universal Design Report</p>												
Project Name:												
Project No.:												
AFC:												
Designer:												
Date:												
Building Element	ADAAG Minimum Design or Standard Practice for Occupancy and Quality Level.	Cost of ADAAG Minimum or Standard Practice. (A)	Universal Design Feature and Why It Exceeds Minimum Design Standards.	Cost of Universal Design Feature (B)	Cost Difference (B minus A)	Equitable Use	Flexibility in Use	Simple & Intuitive Use	Perceptible Information	Tolerance for Error	Low Physical Effort	Size & Shape for Approach & Use
Doors	3'-0" doors	\$ 26,216	3'-6" doors allow easy access by the mobility impaired and is more convenient for all.	\$ 29,156	\$ 2,940	X	X	X		X		X
Total Additional Cost					\$ 2,940							