

P.O. Box 1026 Crossville, TN 38557 Ph. 931 484-7541 Fax 931 484-2351 www.uplanddesigngroup.com

Addendum No. 1, September 20, 2024

Re: Agriculture Technology Innovation Center

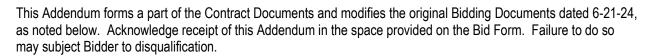
Tennessee Technological University

Cookeville, TN

From: Upland Design Group, Inc.

P.O. Box 1026 (38557) 362 Industrial Blvd. Crossville, TN 38555 Telephone (931) 484 7541 Fax (931) 484 2351

To: Prospective Bidders



This Addendum consists of one (1) page and nineteen (19) attachments for a total of twenty (20) pages.

Clarifications

- 1. The Prebid sign in sheet is attached.
- 2. The existing water service comes from the adjacent building and not from the front of the building to be demolished.
- 3. TTU will provide a hazardous material survey post bid. Any abatement will be handled through Owner contingency funds.
- 4. TTU's contact for the project is Bill Lewis; Cell (727)432-2882; wlewis@tntech.edu.

Changes to Specifications:

- 5. Refer to Section 00 41 13 Bid Form. Replace with attached 00 41 13 Bid Form.
- 6. Refer to Section 01 23 00 Alternates. Replace with attached 01 23 00 Alternates.
- 7. Refer to Section 04 20 00 Unit Masonry. Replace with attached 04 20 00 Unit Masonry.

Changes to Drawings:

- 8. Refer to Architectural Drawings COVER, D1.1, A0.1 and A1.1, Replace with attached drawings COVER, D1.1, A0.1 and A1.1, Revised date 9/20/24. Interior signage types and locations added and existing sidewalk to be demolished and new sidewalk layout have been clarified.
- 9. Refer to Electrical Drawings E0.1 and E1.1. Replace with attached Drawings E0.1 and E1.1, Revised date 9/20/24.
- 10. Refer to attached Drawing HBAR-2 for clarification on new fiber cable routing and information.

END OF ADDENDUM



September 18, 2024

Agriculture Technology Innovation Center Tennessee Technological University

PRE-BID MEETING SIGN-IN

	Name	Representing	Phone	Email Address
	1. Device Loyce	Myo Staro	931-241-222	
	2. Gary Spalet	EAT Semolta	865-203-7198	gstzpletmoezita, com
	3. Bailey Phillips	Mid-State	931-357-183>	931-357-183> bailey Onid-state construction com
	4 Shawa Badehoff	Cherry creek Frethic	931 432 8543	astemating @ cherry creck <)cc, com
Č	GC 5. WILLIAM BONNET	WD SERVICES	931-510-8477 W	WILLIAM BENNET 1410 GAHOS. COM
3	6. Ethin Jennings	FTM	931-528-1137	ethan @ ttm contracting, com
	7. Jacky Dobbs	FTM	931-528-1137	solobs & Am contoucting. com
S	8. Gippie Rangle	Lee Adlak	931. 224-5771	G. rangle D lec actock com
	9. Serry Birduell	Lee Adock	931-265.2966	.) G. Divduell as lee actects. com
	10. Logan Rengle	Lee Advock	6/5-785-6811	L. rangle @ les adecet. com
	11. Renge Lamb	Lee Adroct	431-684-1711	Weak, com
	Clay Warn De Vo	Clay Nam De Voorde Nam De Voorde	419-551-2239	a vande voorded volvelectriciens
	ADAM THROGMORTON	LAKELAND ELECTRAC		ATHROGMORTON @ LAKELANDE. COM

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Name	12	13. HARRY CLEEK	14. Justin Wilson	15. Wes McKay	16. Jake Larsen	17. Gary Lofts	18. Justin Newell	19. STEVE VICK	20. Jesse Wandia	21. Chir had	22. Seth Hudson	23. Wike Sullivon	24. TEITENNY W'-ITSON	25. Thomas Austra	26. Dylan Summers	27. John St. 6hi	MUCHAEL PETTY TOBIN Stewes
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00 41 13 - BID FORM

TO:	S	tate of Tennessee F	ROM BIDDER:			
FOI	₹:					
Pro	jec	t Title: Agriculture Tech	nologyInnovation Ce	enter		
Pro	jec	t SBC No.: 364/021-01-	2022			
		e Bidder hereby acknow				
	1.	Bidder has received, re in accordance therewith		s the Bidding Documen	its and this bid is	made
	2.	Bidder has visited the s Work is to be performe Bidding Documents.				
	3.	Documents identified a Designer's use in designathis bid. The use and responsibility of the usi	n of this Work and hinterpretation of suc	ave not been relied up	on in the prepara	tion of
	4.	Bidder shall not utilize participating in State Bo			actor disqualified	from
	5.	Bidder shall not knowing of this Contract and so consultant who will util Contract.	shall not knowingly	utilize the services of	f any subcontrac	tor or
	6.	In compliance with the to Tennessee Code An on that list.				
	7.	Bid Security, in the ar Alternates, is attached		nt (5%) of the total an	mount of bid, inc	luding
	8.	A Drug-Free Workplace	e Affidavit, in the forr	n of Section 00 45 21,	is attached heret	0.
	9.	Failure to complete this instructions to Bidders,	· •	•	r comply otherwis	e with
	10.	. The person who signs Bidder to a Contract.	this bid on behalf o	f the Bidder is legally e	empowered to bi	nd the
	11.	. The following statemen	t is (mark the one th	at is applicable) [] Tr	ue []False	:
		The Bidder and/or any proposed Subcontracto to any contract crime in	ors have been convi	cted of, pled guilty to, o		
	12.	. Bidder has received the	e following addenda:			
		Addendum No	dated	Addendum No	_ dated	
		Addendum No	dated	Addendum No.	dated	

00 41 13 - BID FORM

PAGE 2 FROM BIDDER:	
PAGE 2 FROM BIDDER:	

- B. The Bidder agrees to:
 - 1. Honor this bid for 45 days following the date of the scheduled opening of bids.
 - 2. Enter into and execute a contract, if presented on the basis of this bid, and to furnish certificates(s) of insurance, bond(s), and other documents related to the contract as required, including, if the initial Contract Sum as awarded exceeds \$100,000, the Contract
 - 3. Accomplish the Work in accordance with the Contract Documents.
 - 4. Furnish Three Year Roof Bond in the form of Section 00 61 43 in the amount of: \$75,000.
 - 5. Achieve Substantial Completion of the Work in accordance with the number of calendar days Contract Time set forth, allotted from and including the date stipulated in the Notice

Phase	Commencement	Contract Time	Liquidated Damages
ALL	Notice to Proceed for All Work	420 Days	\$500 Per Day
	Not Applicable	Days	\$ Per Day
	Not Applicable	Days	\$ Per Day
	Not Applicable	Days	\$ Per Day

	Phase	Commencement	Contract Time	Liquidated Dam	ages
	ALL	Notice to Proceed for All Work	420 Days	\$500 Pe	r Day
		Not Applicable	Days	\$ Pe	r Day
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00 41 13 - BID FORM

E.	for the Q	uantity Allov	wance of Unit Price Iter	ns and p	propose, subject to (Alternates as specified Owner acceptance, the Section 01 22 13 Unit
	Not Appl	licable				
		Item No.	Unit Price per Unit	Unit	Name, Work Inc	luded
F.	BID SUE	BMITTAL:				
	This hid	is submitted	ł by:			
			ature:			Date:
	Print	ed Name, T	itle:			-
	On beha	ılf of:				
	Bidde	er Name:				_
	Bidde	er's Address	S:			-

END OF SECTION

Bidder's Phone: Bidder's Fax: Bidder's Email:

01 23 00 - ALTERNATES

PART 1 - GENERAL

1.01 REQUIREMENTS

- A. Section includes identification of each Alternate by number, and describes the basic changes to be incorporated into the Work if a particular Alternate is made a part of the work by specific provisions in the Agreement between the Owner and the Contractor.
- B. Related sections are referenced in the definition of each Alternate.
- C. Coordination of related work and modifications to surrounding work as required to properly integrate each Alternate, and to provide the complete construction required by the Contract Documents, is the responsibility of the Contractor.

1.02 DESCRIPTION OF ALTERNATES

Add Alternate #1: Paint Existing Building Exterior Concrete Block

A. Refer to applicable Section 09 91 00 and Drawing A3.1.

The work of this Alternate includes of painting the existing building exterior concrete block walls.

Add Alternate #2: Ground Faced Concrete Block

A. Refer to applicable Section 04 20 00 and applicable Drawings.

The work of this Alternate consists of replacing the Base Bid split-faced concrete CMU skirt with ground faced CMU.

PART 2 - PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

END OF SECTION

Section 04 20 00 Unit Masonry

Part 1 General

1.1 General

Applicable provisions found in the Bid/Contract Requirements and Division 1, General Requirements apply to the Work under this Section.

1.2 Scope

This Specification applies to all masonry work shown on the Drawings and specified herein including masonry materials, erection, pointing, cleaning, and sealing. Specific requirements applying to masonry accessories and mortar are given in previous sections within this DIVISION. **THIS SECTION IS SUBJECT TO ALTERNATE #2.**

1.3 Related Work

- A. Masonry Mortaring is specified in Section 04 05 13.
- B. Masonry Anchorage is specified in Section 04 05 19.
- C. "Sealants" as specified in Division 7.

1.4 Submittals

- A. Cleaning compounds or processes, other than those specified, shall be submitted with complete data to the Architect for approval before work is commenced.
- B. Samples
 - 1. Three full size sample units, selected at random, of each type of masonry material specified herein shall be submitted to the Architect for approval before work is started.
 - 2. Prior to starting masonry work, a sample wall panel shall be built to show required range of color and type of color of mortar joints. This sample shall include brick, block, reinforcing and all elements to be included in the wall. A separate wall panel shall be built for each exterior wall profile. Approved sample walls shall be representative of proposed material, method of laying and workmanship. Build panels approximately 4 x 5 feet in a location where the sun will strike finish face of same. Provide a vertical control joint in the panel. Control joint shall be caulked as a sample of caulk color and installation workmanship. After approval, the panels shall be kept intact until the work is completed and shall be the established standard for the balance of the work.

C. Test Data

- Upon the Architects request, certified test data compiled by an approved testing laboratory shall be furnished certifying conformance of materials, actually delivered for incorporation in the work, with all specified requirement. All associated costs for this work will be paid by the Contractor.
- 2. The block supplier shall supply a letter from an independent testing laboratory certifying that the proposed block meets or exceeds a A.S.T.M. C-90 and that the aggregates meet or exceed the A.S.T.M. C-331. No block shall be provided to the job prior to meeting this certification requirement.

Part 2 Products

2.1 Concrete Block

- A. The manufacturer of the structural concrete block shall be subject to the approval of the Architect. At Contractor's option equal products of standard weight concrete block may be used in lieu of that specified below.
- B. Lightweight concrete blocks shall be made of lightweight aggregate, Portland Cement, and water. The average percentage of moisture in the units at the time of setting shall not exceed 40% of their total absorption. After the blocks have been formed, they shall be cured in kilns at atmospheric pressure for a minimum of 12 hours at a temperature of 180 degrees F., to 200 degrees F. This heat shall be produced by live steam only. Blocks must then be stored for a minimum period of 10 days before shipment to the job. Also, all units must comply with the compressive strength requirements before shipment.
 - 1. Blocks must be true to size; without cracks, chips, spawls, splits, foreign matter or other defects, which may impair their strength or durability and shall not exceed the following weights:
 - a) 12 x 8 x 16-2 Core Air Dry-Not over 42 lbs.
 - b) 8 x 8 x 16-3 Core Air Dry -Not over 30 lbs.
 - c) 6 x 8 x 16-3 Core Air Dry -Not over 24 lbs.
 - d) 4 x 8 x 16-Solid-Not over 19 lbs.
 - Loadbearing, lightweight concrete blocks shall conform to ASTM C 90-75 and to Federal Specification SS-C-621 for loadbearing units, except that the aggregate shall be Shalite or Lalite. Special blocks shall be provided as necessary for bonding out or at opening.
 - Non-load bearing, lightweight concrete blocks shall conform to ASTM C 129-71 and to Federal Specifications SS-C-621 for non-load bearing units, except that the aggregate shall be Shalite or Lalite. Special blocks shall be provided as necessary for bonding at openings.
 - 4. All concrete masonry units 8" or more in thickness shall have a minimum equivalent thickness, as defined in the Southern Standard Building Code, of 3.8" and shall conform to the SSBC requirements for 2-hour fire resistance rating.
 - 5. Where indicated on the Drawings 12" masonry walls indicated as "2HR" shall be supplied bearing U.L. label or manufacture complying to 2HR fire rating requirement.
 - 6. Bond beam blocks, which may be identified on the Drawings as spandrel or bolster block, shall be similar to Tennessee Concrete Industries Association (TCIA) Shape No. 79 or No. 86 as applicable for wall thickness indicated on the Drawings. Bond beam blocks shall be manufactured as specified of load bearing, lightweight concrete blocks.

2.2 Split Face Concrete Block Veneer – Base Bid

- A. Pre-colored split face block shall be 8" x 8" x 16". Color to be as selected from standard colors by Architect as manufactured by ACME Brick and Block, Crossville, Tennessee; or equal color as manufactured by Fentress Co. Block, Jamestown, Tennessee; Sequatchie Concrete Services, South Pittsburgh, Tennessee; or prior approved equal.
- B. Block shall comply with ASTM C-578.
- C. Aggregate shall be normal weight and conform to ASTM C-33. Block shall comply with ASTM C90-7 for all load bearing applications.

- D. Blocks shall have integral lime proof color with 10% pigment by weight of cement. Blocks shall include efflorescence reduction admix of calcium stearate at a rate of six fluid ounces per bag of cement, or W. R. Grace equivalent.
- E. Blocks shall have integral water repellent admixture such as W.R. Grace "Dry-Block", Acme shield, or approved equal added at time of manufacture.
- F. Provide block with matching ends for corner and jamb applications.
- **G.** Unit color shall be selected from manufacturers standard colors.

2.3 Ground Face Masonry Units – Add Alternate #2

Ground face masonry units shall be Treadstone Plus filled and polished masonry units, 7 5/8" x 15 5/8" in size. Equal products from Oldcastle and DecraStone or approved equal.

2.4 Masonry Grout

- A. Grout for filling bond beams, cores, etc. shall be in accordance with ASTM C-476, and have a minimum compressive strength of 3,000 psi at 28 days.
- B. Aggregate for grout shall be in accordance with ASTM C-404. Where area to be grouted is 3" or less in any dimension, use "fine" grout; otherwise use "coarse".
- C. Slump for grout is to be between 9" and 11".
- D. Grout may contain water reducing or plasticizing admixture to achieve slump noted above.
- E. Field mix grout may be used with the approval of the architect for quantities less than one yard and upon the submittal and approval of the contractor's field mix design and quality control criteria.

Part 3 Execution

3.1 Handling and Storage of Materials

- A. All materials on the job, including mortar aggregate and masonry units shall be stored and handled to preclude the inclusion of foreign materials in the work, and to prevent breaking, staining or damage from the weather of the ground. Masonry units shall be stacked on waterproof paper laid over a timber platform at least four inches above the ground, or on pallets if so delivered from the manufacturer.
- B. A waterproof paper or other suitable cover shall be provided over all masonry materials in storage where exposed to the weather.

3.2 Equipment

- A. Adequate equipment shall be furnished and maintained in good, safe working order to permit satisfactory and prompt completion of the work.
- B. Scaffolding shall be erected in a substantial manner and shall be maintained safe in accordance with applicable codes and ordinances.

3.3 Erection

A. General: Masonry shall be laid plumb, true to line, with level courses accurately spaced with a story pole and, unless otherwise shown, with each course breaking joints with the course next below. Each unit shall be adjusted to its final position in the wall while mortar is still soft and plastic. Any unit that is disturbed after mortar has stiffened shall be removed and re-laid with fresh mortar. Bond pattern shall be plumb throughout. Corners and reveals shall be plumb and true. Courses shall be so spaced that backing masonry will level off

flush with the face work at all bonding courses of masonry bond. Partitions that abut walls or columns shall be anchored thereto on two-foot centers. Anchors to be built in with masonry shall be installed as the work progresses. The size of any two adjacent units shall be within permitted tolerances so that the difference between the vertical faces of such units shall not exceed 1/8 inch. No unit having a film of water or frost on its surface shall be laid in the walls and no frozen work shall be built upon.

- Work required to be built into masonry, including anchors, frames, bolts, sleeves, inserts, compressible fillers, expansion joints, and flashings shall be built in as erection progresses. Hollow units into which anchor bolts will be installed, and the spaces around metal door- frames and other built-in items shall be solidly filled with mortar.
- 2. Unfinished work: Unfinished work shall be stepped back for joining with new work. All masonry work shall be continuous from control joint to control joint or to inside corner. Toothing may be resorted to only when specifically approved by the Architect. All loose mortar shall be removed and the exposed joint shall be thoroughly cleaned before laying new work. Surfaces of masonry not being worked on shall be properly protected at all times during construction operations. Adequate provisions shall be made during construction to prevent damage by wind.
- Joint Reinforcement: Reinforcement shall be installed in horizontal joints as shown on the drawings, or if not shown, in alternate joints. Corners and laps shall be lapped not less than the width of the reinforcing. Face units shall be bonded to back up with joint reinforcement.
- 4. Joints: Joints shall be tooled slightly concave with a device of as long length as practicable and so that the mortar will be thoroughly compacted and pressed against the edges of the units. Tooling shall not be done until after the mortar has taken its initial set. Note that masonry may be exposed in the interior of the building, in that event, interior and exterior workmanship are to be equal superior quality.

B. Concrete Units:

- 1. Layout of work: All concrete work shall be laid out with uniform joints approximately 3/8" thick and shall be bonded at corners where possible and as consistent with good appearance in the judgment of the Architect. Where cutting is required, the cuts shall be made symmetrical about openings and as general rule with no cuts less than 4". Corners shall be made using half blocks in order to maintain head joints centered over block in adjoining courses above and below. Where for appearance it is inadvisable to bond intersecting walls, wall ties shall be used. All cutting shall be done with high- speed masonry saws.
- 2. Lintels: All openings in masonry walls shall be provided with lintels whether or not detailed or specifically called out on the Drawings. Lintels are to be bond beam / U-block type constructed in place according to lintel schedule on the Drawings, unless specifically detailed otherwise. Lintels shall be 16" longer than the masonry width of the openings over which they occur, except for special conditions where the length shall be as shown / directed. All lintels shall be 7-5/8" deep, unless noted otherwise, and shall be reinforced with one #5 top and bottom for each 4" of lintel width. Concrete fill for bond beams shall be as specified in Division3.
- 3. Control joints: Control joints shall be provided in concrete block partitions at door heads where masonry extends above the door frame, where partitions abut exterior walls, at 30' c/c, and elsewhere as noted on the Drawings. Joints shall be raked out

3/8 inch deep and caulked as specified in Division 7.

3.4 Cold Weather Procedures

The following procedures shall be implemented when either the ambient temperature falls below 40°F (4°C) or the temperature of masonry units is below 40°F (4°C).

A. Preparation

- 1. Temperatures of masonry units shall not be less than 40°F (-7°C) when laid in the masonry. Masonry units containing frozen moisture, visible ice or snow on their surface shall not be laid.
- 2. Visible ice and snow shall be removed from the top surface of existing foundations and masonry to receive new construction. These surfaces shall be heated to above freezing, using methods that do not result in damage.
- B. The following construction requirements shall be met when the ambient temperature is between 40°F (4°C) and 32°F (0°C):
 - 1. Water and aggregates used in mortar and grout shall not be heated above 140°F (60°C).
 - 2. Mortar sand or mixing water shall be heated to produce mortar temperatures between 40°F (4°C) and 120°F (49°C) at the time of mixing. When water and aggregates for grout are below 32°F (0°C), they shall be heated.
- C. The following construction requirements shall be met when the ambient temperature is between 32°F (0°C) and 25°F (-4C):
 - 1. The mortar temperature shall be maintained above freezing until used in masonry.
 - Aggregates and mixing water for grout shall be heated to produce grout temperature between 70°F (21°C) and 120°F (49°C) at the time of mixing. Grout temperature shall be maintained above 70°F (21°C) at the time of grout placement.
- D. The following construction requirements shall be met when the ambient temperature is between 25°F (-4°C) and 20°F (-7°C):
 - 1. Masonry surfaces under construction shall be heated to 40°F (4°C).
 - 2. Wind breaks or enclosures shall be provided when the wind velocity exceeds 15 miles per hour (mph) (24 km/h).
 - 3. Prior to grouting, masonry shall be heated to a minimum of 40°F (4°C).
- E. The following construction requirement shall be met when the ambient temperature is below 20°F (-7°C): Enclosures and auxiliary heat shall be provided to maintain air temperature within the enclosure to above 32°F (0°C).

F. Protection

- 1. When the temperature is between 40°F (4°C) and 25°F (-4°C), newly constructed masonry shall be covered with a weather-resistive membrane for 24 hours after being completed.
- 2. When the temperature is between 25°F (-4°C) and 20°F (-7°C), newly constructed masonry shall be completely covered with weather-resistive insulating blankets, or equal protection for 24 hours after being completed. The time period shall be extended to 48 hours for grouted masonry, unless the

only cement in the grout is Type III Portland cement.

3. When the temperature is below 20°F (-7°C), newly constructed masonry shall be maintained at a temperature above 32°F (0°C) for at least 24 hours after being completed by using heated enclosures, electric heating blankets, infrared lamps or other acceptable methods. The time period shall be extended to 48 hours for grouted masonry, unless the only cement in the grout is Type III Portland cement.

3.5 Protection of Work in Place

- A. Masonry Work: The work shall be done with reasonable care to avoid spilling mortar on the faces of exposed masonry units in place. Should such occur, the faces should be cleaned immediately to prevent setting of mortar or permanent staining. Use clean burlap on wood blocks and stiff brushes with water. When work is stopped for any reason, the top of all unfinished work shall be covered with a waterproof covering if exposed to the weather.
- B. Work of Other Trades: The work of other trades which will be exposed to view in the completed project or surfaces which are to receive finishes such as resilient flooring shall be protected from mortar droppings or other damage which would impair satisfactory completion, or would cause other trades undue labor or difficulty in preparing such surfaces to receive their work.

3.6 Pointing

- A. After masonry is erected, point up all exposed masonry. All loose mortar shall be removed and defective joints cut out. All such joints, holes, or other defects shall then be carefully filled with mortar and tooled to match adjacent joints.
- B. All block walls to receive paint shall be rubbed with an abrasive stone to remove mortar spatter, droppings, and "slobber" (excess mortar that extends out past the face of the block, sometimes created during tooling of joints) so that no mortar protrudes past the plane of the block face.

Finished pointed, rubbed wall shall present a smooth, even, true to plane surface.

End Of Section

Agriculture Technology Innovation Center Tennessee Technological University SBC Project No. 364/021-01-2019

2390 Gainesboro Grade, Cookeville, Putnam County, Tennessee

REGULATORY REQUIREMENTS

LISTED BELOW ARE THE REGULATORY REQUIREMENTS THAT APPLY TO THIS PROJECT, REFER TO SECTION 01 41 14 REGULATORY REQUIREMENTS. THIS LIST IS PROVIDED AS A

- 2. CHAPTER 34, SECTION 3411 ACCESSIBILITY FOR EXISTING BUILDINGS;

- - 2. LOW-HAZARD FACTORY INDUSTRIAL, GROUP F-2;
- 3. MODERATE-HAZARD STORAGE, GROUP S-1; AND
- UILDINGS, EDUCATIONAL OCCUPANCIES AND ANY OTHER OCCUPANCY REQUIRING AN INSPECTION BY THE STATE FIRE MARSHAL FOR INITIAL LICENSURE, NFPA 101
- I. THE INSTALLATION AND SERVICE STANDARDS OF PORTABLE FIRE EXTINGUISHERS AND FIXED FIRE EXTINGUISHER SYSTEMS IN TENN. COMP. R. & REGS. 0780-02-14-.02 2. THE STANDARDS FOR ENGAGING IN THE LIQUEFIED PETROLEUM GAS BUSINESS IN TENN. COMP. R. & REGS. 0780-02-17-.02. (K) NATIONAL ELECTRIC CODE, NFPA 70, 2017 EDITION, PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION.
- (L) TENNESSEE PUBLIC BUILDING ACCESSIBILITY ACT 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

CODE DATA

BUILDING AREA -

NUMBER OF STORIES - 1

<u>ALLOWABLE HEIGHT</u> - 55' MAXIMUM HEIGHT - 30' - 6"

SEISMIC DATA - SEE STRUCTURAL

IECC CLIMATE ZONE - 4A IECC 2012 FIGURE C301.1

OCCUPANCY TYPE - GROUP B

ALLOWABLE NUMBER OF STORIES - 3

CONSTRUCTION TYPE - IIB UNSPRINKLERED

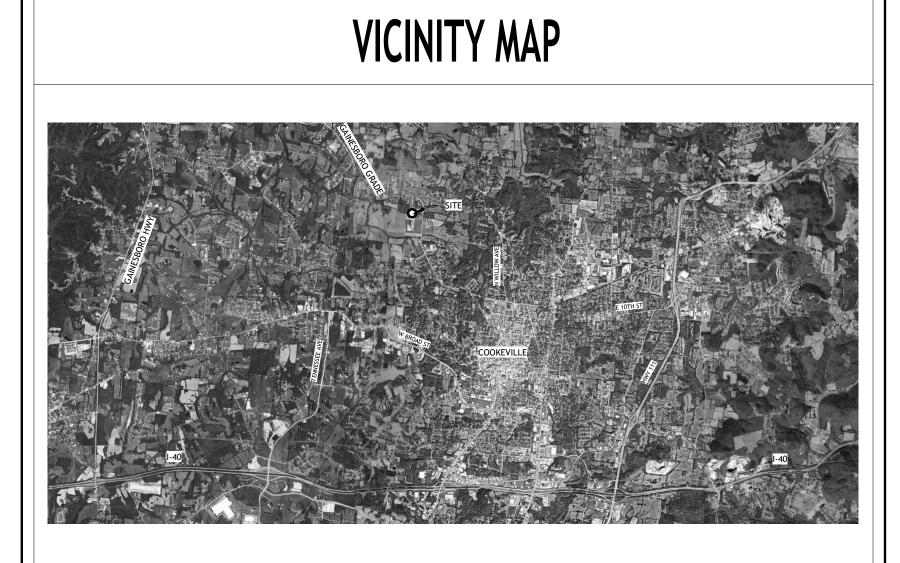
ALLOWABLE BUILDING AREA - 23,000 SF PER STORY

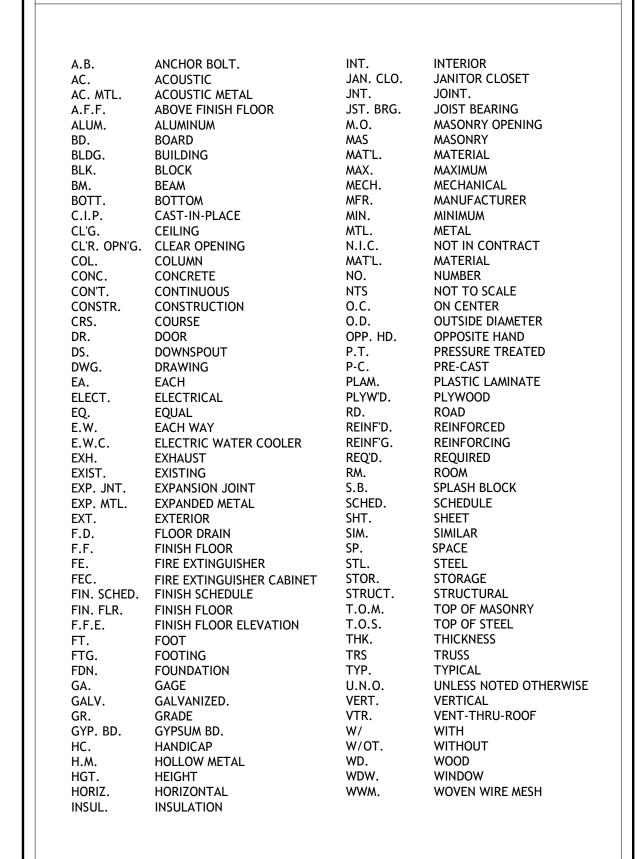
3,487 SF NEW ADDITION ONLY

IBC CHAPTER 9 FIRE PROTECTION: NO SPRINKLER SYSTEM IN THIS BUILDING

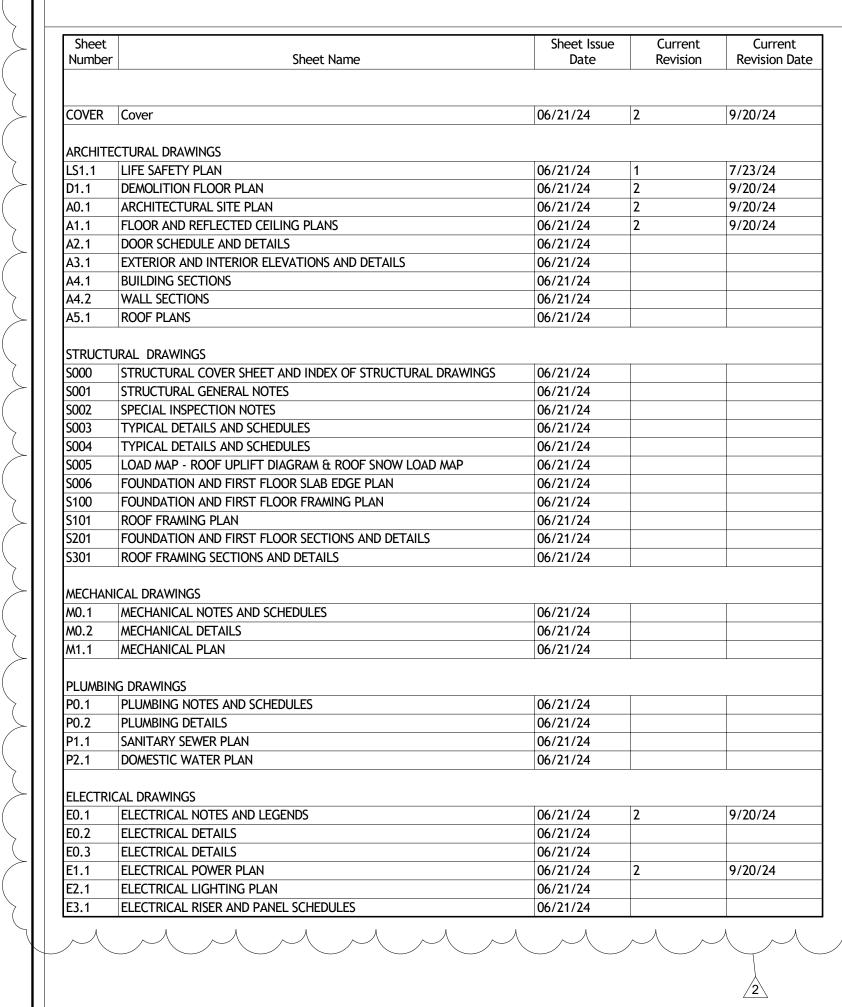
PROJECT STREET ADDRESS: 2390 GAINESBORO GRADE, COOKEVILLE, TN 38501

LOCATION MAP





LIST OF ABBREVIATIONS



INDEX TO DRAWINGS

FIRE RESISTANCE	
FIRE RESISTANCE RAITING REQU	JIREMENTS
C 2012 - TABLE 601	
BUILDING ELEMENTS	TYPE II-B
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS EXTERIOR ^{f,g}	0
INTERIORS	0
NON-BEARING WALLS & PARTITIONS (EXTERIOR)	0
NON-BEARING WALLS & PARTITIONS (INTERIOR)	0
FLOOR CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS	0
ROOF CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS	0

IBC TABLE 602 - FIRE SEPARATION DISTANCE IS GREATER THAN 30'

accordance with ASTM E 84 or UL 72 materials shall be grouped in the fol	
accordance with their flame spread indexes.:	•
Class A: = Flame spread index 0-25; 0-450.	smoke-developed index
Class B: = Flame spread index 26-75; 0-450.	smoke-developed index
Class C: = Flame spread index 76-200 0-450.); smoke-developed index
REQUIREMENTS BY OCCUPANCY	
GROUP B (NON-SPRINKLERED):	CLASS
INTERIOR EXIT PASSAGEWAYS: CORRIDORS:	A B
ROOMS AND ENCLOSED SPACES:	C.
NOOMS AND ENGESSES STREES.	·

803.1.1 INTERIOR WALL AND CEILING FINISH MATERIALS

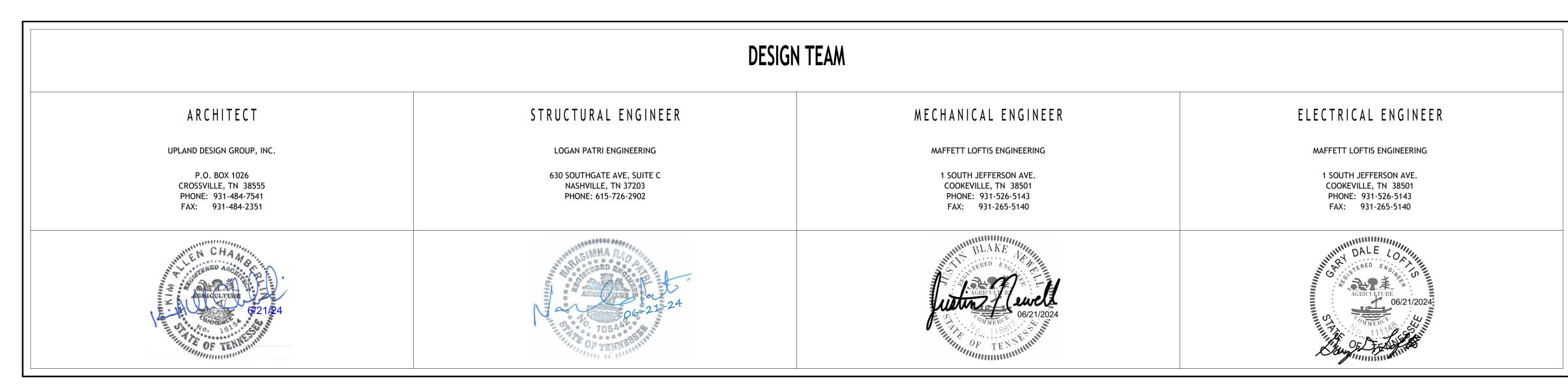
Interior wall and ceiling finish materials shall be classified in

INTERIOR FINISHES

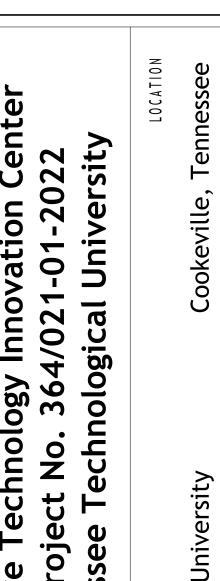
REVISIONS PER CHANGE ORDERS AND SUPPLEMENTAL INSTR.

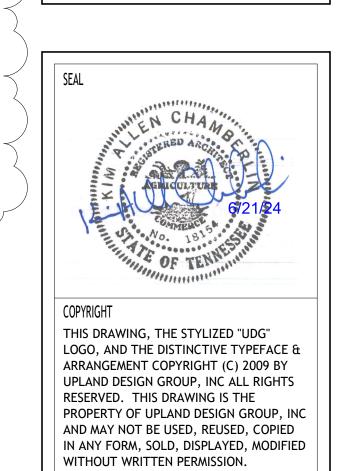
DESCRIPTION OF WORK

PROJECT SUMMARY STATEMENT RESPONDING FIRE DEPT. LOCAL BUILDING INSPECTOR THIS PROJECT CONSISTS OF A RENOVATION TO AN EXISTING HAY BARN ON TENNESSEE TECH UNIVERSITY'S SHIPLEY FARM. THE EXISTING BUILDING CONSISTS OF A FINISHED SHOP SPACE AND AN OPEN AIR STRUCTURE. THE PORTION COOKEVILLE FIRE STATION 4 CITY OF COOKEVILLE THAT IS AN OPEN AIR STRUCTURE SHALL BE DEMOLISHED. THE NEW DESIGN WILL CONSIST OF FOUR DESIGNATED SHOP SPACES AND ONE ADDITIONAL RESTROOM. THE REMAINING PORTION OF THE BUILDING WILL NOT BE ALTERED. **BENTON YOUNG** DAVID CLOUSE 1110 ENGLAND DR. 45 EAST BROAD STREET COOKEVILLE, TN 38501 COOKEVILLE, TN 38501 PHONE: 931-520-5494 PHONE: 931-520-5268



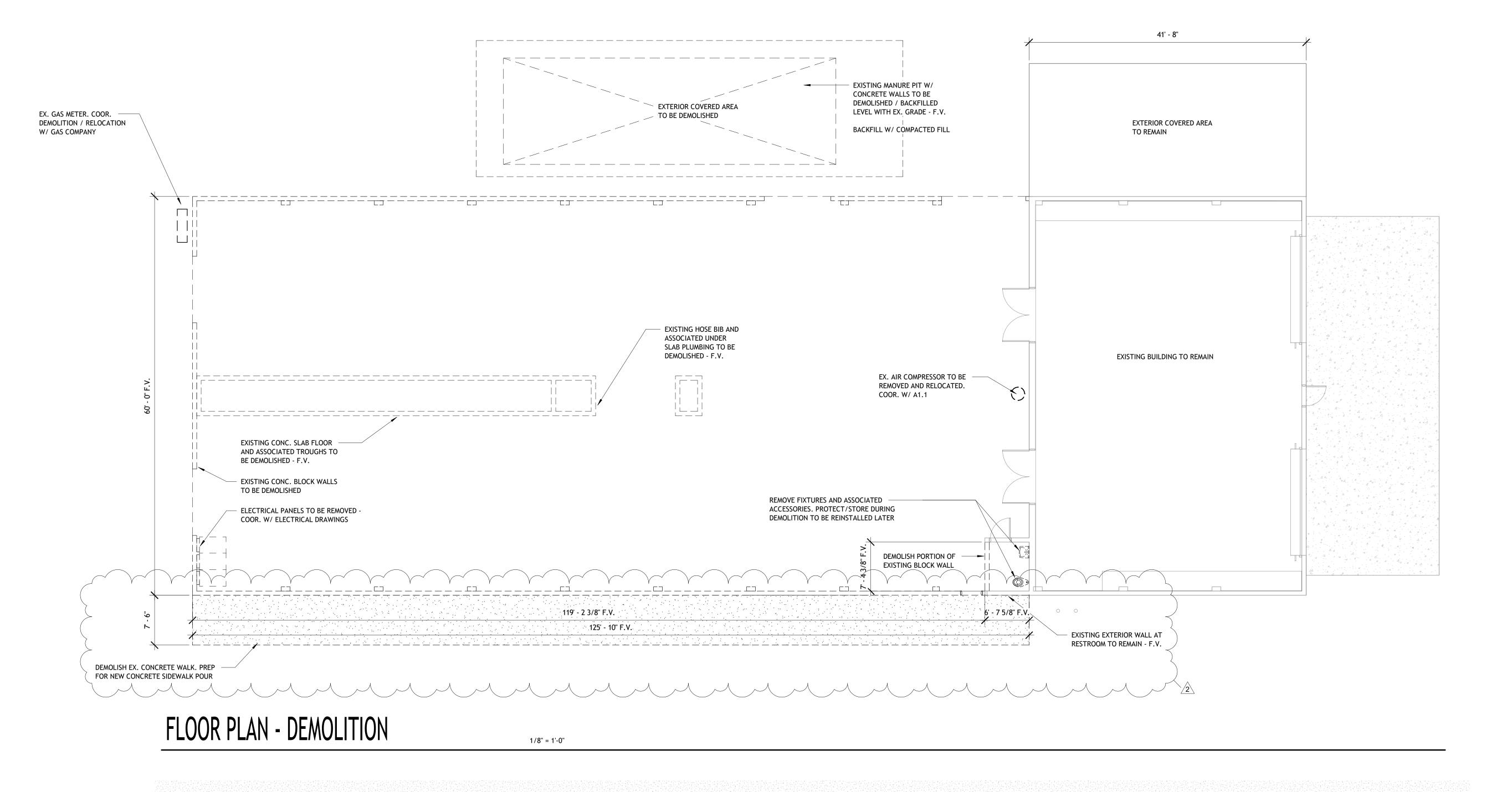


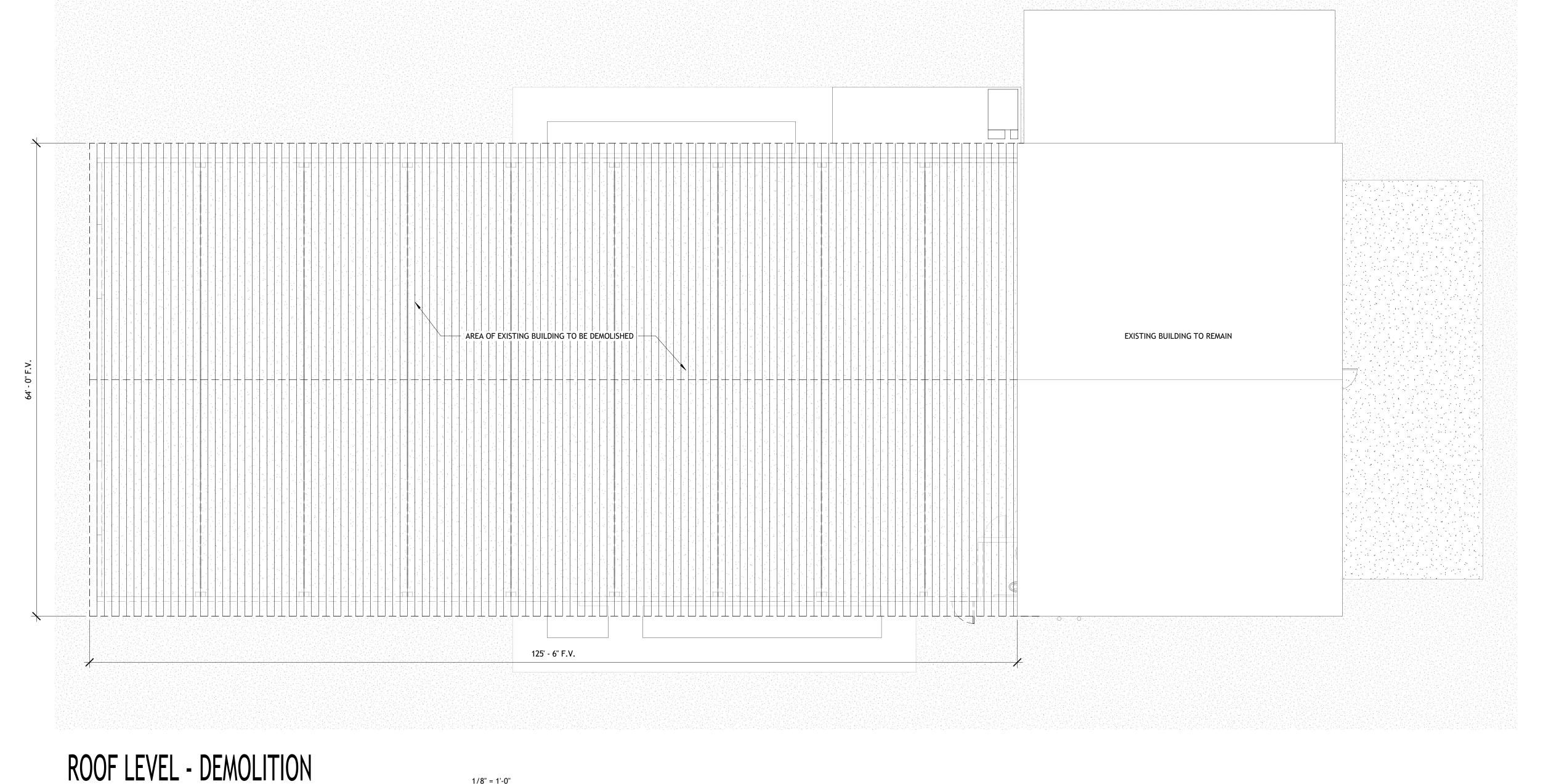




DESCRIPTION ADDENDUM 1

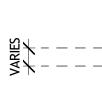
]	JOB NO.	2235
	ISSUE DATE	06/21/24
	SHEET TITLE	Cover
	DRAWN KTC REVIEW KAC	COVER



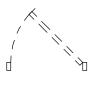


1/8" = 1'-0"

EXISTING WALLS TO REMAIN. PATCH AND PREPARE EXISTING WALLS TO REMAIN EXPOSED TO RECEIVE NEW FINISHES, COORDINATE WITH RENOVATION PLANS AND FINISH SCHEDULES. FIELD VERIFY EXISTING CONDITION, THICKNESS AND MATERIAL.



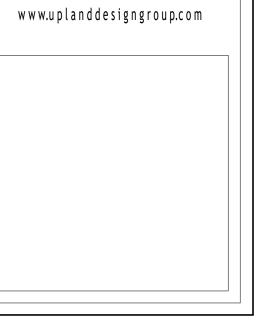
REMOVE EXISTING WALL. COORDINATE RELOCATION OF ANY ELECTRICAL SWITCHES OR OUTLETS IN EXISTING WALL WITH ELECTRICAL DRAWINGS. PATCH AND PREPARE EXISTING EDGES TO REMAIN TO RECEIVE NEW FINISHES, WALLS, DOORS, OR WINDOWS (COORDINATE WITH RENOVATION PLANS AND FINISH SCHEDULE). PATCH AND PREPARE FLOOR AS REQUIRED TO RECEIVE NEW FINISH WHERE SHOWN ON THE FINISH SCHEDULE. ROUT AREA UNDER WALL AND FILL WITH LEVELING COMPOUND AS REQUIRED TO PROVIDE SMOOTH TRANSITION FOR NEW FLOOR.



REMOVE EXISTING DOOR. COORDINATE WITH DOOR SCHEDULES. TURN EXISTING HARDWARE OVER TO OWNER. COORDINATE ANY DOORS NOT REUSED TO BE TURNED OVER TO OWNER. IF THE OWNER DOES NOT WANT HARDWARE, DOORS, AND/OR FRAMES, CONTRACTOR TO DISPOSE OF DOORS AND FRAMES.



P.O. BOX 1026 CROSSVILLE, TN 38557 Ph. 931 484 7541



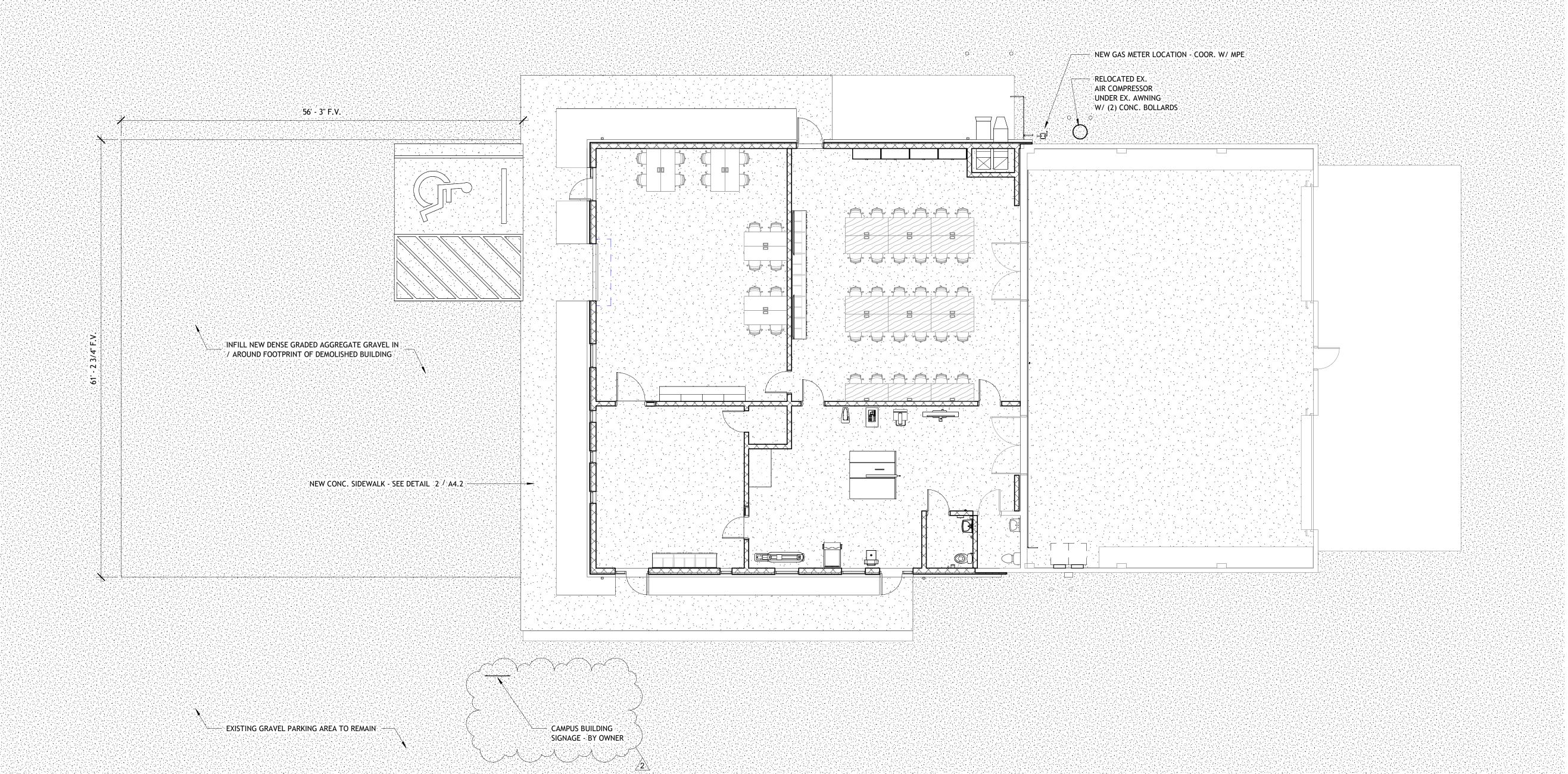
Agriculture 7 SBC Proj

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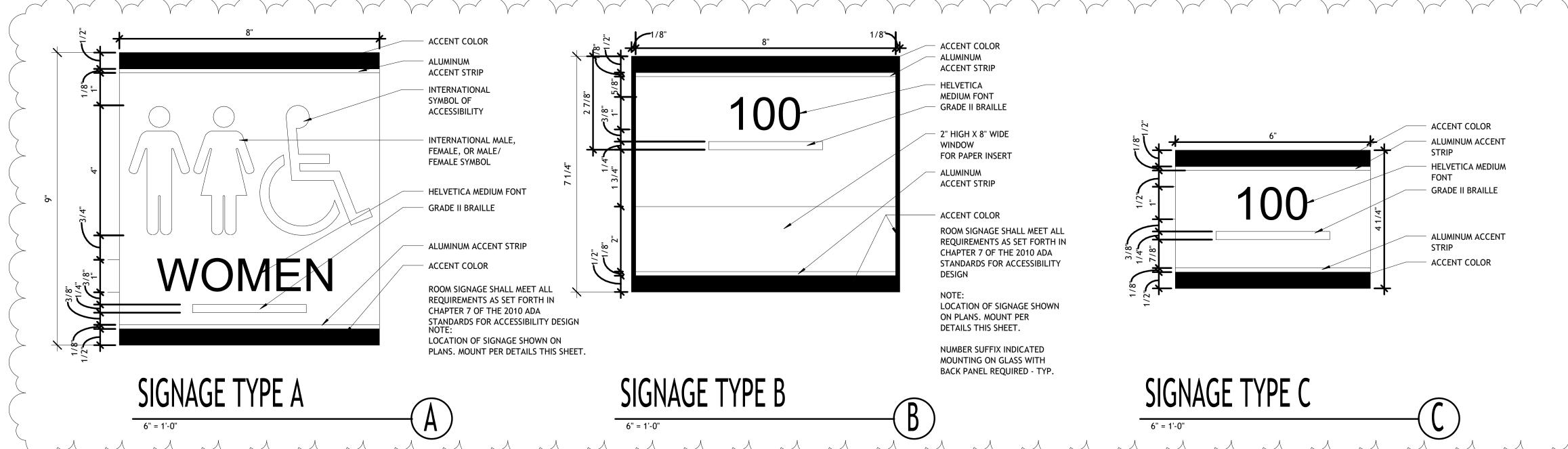
ISSUE DATE

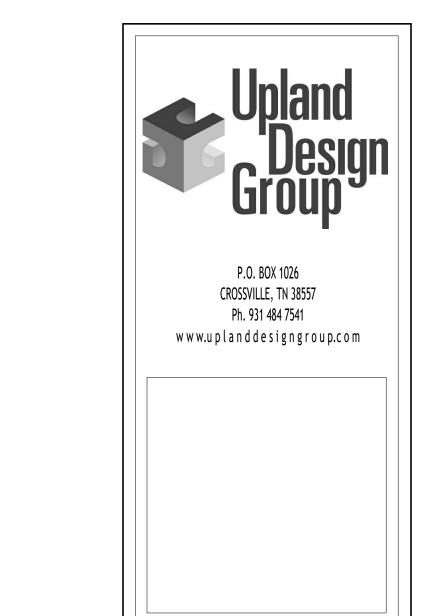
DEMOLITION FLOOR PLAN



SITE PLAN

1/8" = 1'-0"





Agriculture Technology Innovation Center SBC Project No. 364/021-01-2022 Tennessee Technological University

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REVISIONS

NO. DESCRIPTION DATE

ADDENDUM 1

JOB NO.

2235

ISSUE DATE

06/21/24

SHEET TITLE

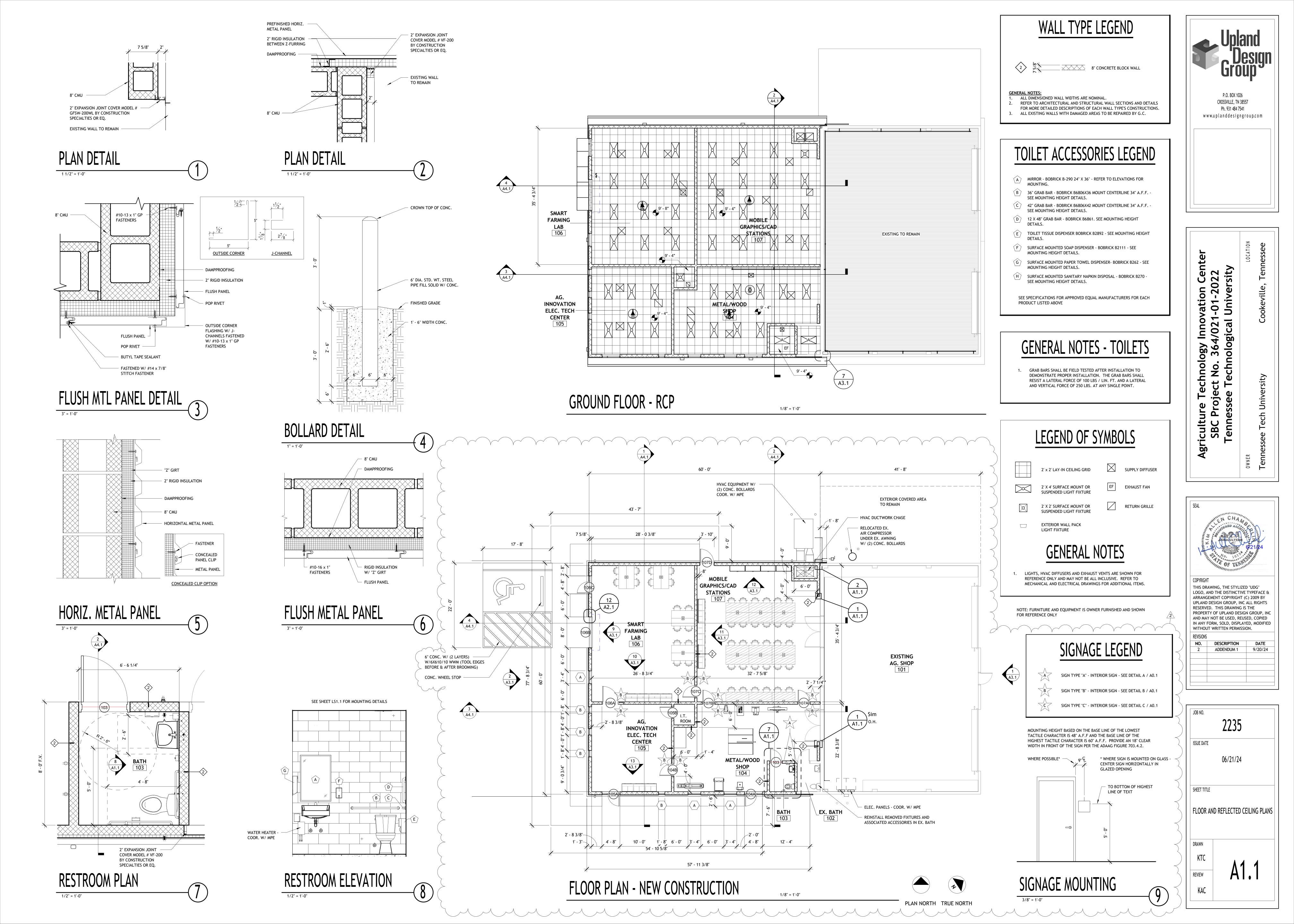
ARCHITECTURAL SITE PLAN

DRAWN

KTC

REVIEW

KAC



ELECTRICAL LEGEND ELECTRICAL ABBREVIATIONS GENERAL A / AB ABOVE □ PANEL HOT LEG → HOT LEG WITH NEUTRAL HOT LEG WITH GROUND —— SWITCH LEG ---- THREE-WAY CIRCUIT CIRCUIT HOME RUN **POWER** □¬ NON-FUSED DISCONNECT TRANSFORMER 120V DUPLEX RECEPTACLE 120V QUAD RECEPTACLE 240V RECEPTACLE RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE, IN-FLOOR BOX & COVER WEATHER-RESISTANT RECEPTACLE, IN-USE, METAL, HEAVY-DUTY, WITH GROUND FAULT CIRCUIT INTERRUPTER ABOVE COUNTER RECEPTACLE, COORDINATE WITH ARCHITECTURE UNDER COUNTER RECEPTACLE, COORDINATE WITH ARCHITECTURE JUNCTION BOX 2'x4' RECESS MOUNTED LINEAR FIXTURE - HATCHING ON PLANS INDICATES 24/7 LIGHT WIRED HOT TO CIRCUIT INDICATED ON 2'x2' RECESS MOUNTED LINEAR FIXTURE - HATCHING ON PLANS INDICATES 24/7 LIGHT WIRED HOT TO CIRCUIT INDICATED ON 2'x4' SURFACE MOUNTED LINEAR FIXTURE - HATCHING ON PLANS INDICATES 24/7 LIGHT WIRED HOT TO CIRCUIT INDICATED ON 二 EXTERIOR WALL PACK FLOOD LIGHT EMERGENCY LIGHT EXIT / EMERGENCY COMBO LIGHT - HATCHING ON PLANS INDICATES ILLUMINATED SIDES OF LIGHT - SEE PLANS FOR DIRECTIONAL ARROWS **WIRING COLOR CODE** CONDUCTOR BLACK PHASE A PHASE B RED PHASE C (3Φ ONLY) BLUE NEUTRAL WHITE GROUND **GREEN**

BROWN

ORANGE

YELLOW

GRAY

GREEN

DATA BOX - (2) OUTLETS IN BOX UON VIA NUMBER IN BOX

www.call811.com

SURGE PROTECTION DEVICE SCHEDULE

1. USE SPECIFIED DEVICE, SIEMENS, OR INNOVATIVE TECHNOLOGIES

2. INSTALL PER MANUFACTURER'S REQUIREMENTS AND SPD DETAIL

PART #

AMP RATING

240,000

COMMUNICATIONS LEGEND

PHASE A

PHASE B

PHASE C (3Φ ONLY)

NEUTRAL

GROUND

WIRELESS ACCESS POINT

DOOR ACCESS CONTROL

THE CONTRACTOR SHALL NOTIFY ALL UTILITIES INCLUDING AND NOT

LIMITED TO GAS, WATER, ELECTRIC, CABLE, AND TELEPHONE COMPANIES

PRIOR TO ANY EXCAVATION. THE

CONTRACTOR SHALL NOTIFY ONE-

CALL SERVICE (CALL 811) SEVENTY-

TWO (72) HOURS AS REQUIRED BY

LAW BEFORE ANY EXCAVATION, AT

CALL BEFORE YOU DIG

DATA DEVICES

SECURITY DEVICES

ANY LOCATION.

SPD-1 SQUARE-D

	AF	AMPERE FRAME
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	AFI	ARC FAULT INTERRUPTER
	AHJ	AUTHORITY HAVING JURISDICTION
	AIC	AVAILABLE FAULT CURRENT
	AMP	AMPERE
	AP	ANNUNCIATOR PANEL
	AT	AMPERE TRIP
	ATS	AUTOMATIC TRANSFER SWITCH
	AUTO	AUTOMATIC
	BFG	BELOW FINISHED GRADE
	BOD	BASIS OF DESIGN
	С	CONTACTOR
	CKT	CIRCUIT
	COM	COMMUNICATION
	CT	CURRENT TRANSFORMER
	DACR	DIGITAL ALARM COMMUNICATION RECEIVER
	DACT	DIGITAL ALARM COMMUNICATION TRANSMITTER
	DETD	DUAL ELEMENT TIME DELAY
	DN	DOWN
	DWG	DRAWING
	EC	ELECTRICAL CONTRACTOR
	ECB	ENCLOSED CIRCUIT BREAKER
	EDP	ELECTRICAL DATUM PLANE
	EMG	
		EQUIPMENT
	ETB	ELECTRONIC TRIP BREAKER
	FACP	FIRE ALARM CONTROL PANEL
	FAP	FIRE ALARM PANEL
	FAS	FIRE ALARM SYSTEM
	GAL	GALLON OFFICE AT AN ANNUAL OFFICE DANIEL
	GAP	
	GD	GARBAGE DISPOSAL
	GFCI	GROUND-FAULT CIRCUIT INTERRUPTER
	GFM	GROUND FAULT MONITOR
S	GFPE	GROUND-FAULT PROTECTION OF EQUIPMENT
3	GPH	
	HACR	-,
S	HP	HORSEPOWER
	HZ	HERTZ
	IPC	INTEGRATED POWER CENTER
NS	KVA	KILOVOLT-AMPERE
	KW	KILOWATT
	LC	LIGHTING CONTACTOR
	LEUD	LOCAL ELECTRICAL AND UTILITY DEPARTMENT
	MAX	MAXIMUM
	MCB	MAIN CIRCUIT BREAKER
	MCS	MOLDED CASE SWITCH
	MDP	MAIN DISTRIBUTION PANEL
	MFG	MANUFACTURING
	MFR	MANUFACTURER
	MIN	MINIMUM
	MLB	MICROLOGIC BREAKER
	MLO	MAIN LUG ONLY
	MOCP	MAIN OVERCURRENT PROTECTION
		NORMALLY CLOSED
		NORMALLY OPEN
		OVERCURRENT PROTECTION
		OVERHEAD
	PB	PUSH BUTTON
	РΗ / Φ	PHASE
		PANEL
	=	PORTABLE POWER CABLE
		RECIRCULATING / RECIRCULATION
		RECEPTACLE
	SCH	
	SER	
	SPD	
		SURGE PROTECTIVE DEVICE
	ST	SHUNT TRIP
	TEL	TELEPHONE THE PARAL MACRIETIC PREAMER
	TMB	THERMAL MAGNETIC BREAKER
	TYP	TYPICAL
	U/UC	UNDER / UNDER CABINET
	UG	UNDERGROUND
	UON	UNLESS OTHERWISE NOTED
	UPS	UNINTERRUPTIBLE POWER SUPPLY
	US	UNDERSLAB
	UW	UNDERWATER
_	V	VOLT
	VA	VOLT-AMPERE
	W	WATT
	\ A / D	VAIEATUED DECLOTANT

WR WEATHER-RESISTANT

WRI WEATHER-RESISTANT, IN-USE

AF AMPERE FRAME

ELECTRICAL GENERAL NOTES 1 INSTALLATION SHALL COMPLY WITH ALL APPLICABLE CURRENTLY ADOPTED CODES AT THE TIME OF THE PLAN DATE, INCLUDING (BUT NOT LIMIT TO) THE FOLLOWING: - NFPA 70 NATIONAL ELECTRIC CODE (NEC) - NFPA 72 NATIONAL FIRE ALARM CODE - INTERNATIONAL ENERGY CONSERVATION CODE (IECC) - INTERNATIONAL BUILDING CODE (IBC) APPROVED INDEPENDENT TESTING LABORATORY 2 ELECTRICAL SYSTEM(S) SHALL BE INSTALLED COMPLETE WITH ALL WORK, MATERIALS, AND EQUIPMENT CUSTOMARILY CONSIDERED PART OF SUCH WORK FOR A FULLY OPERATIONAL, COMPLETE, AND CODE COMPLIANT SYSTEM. 3 PLANS ARE DIAGRAMMATIC AND ARE PROVIDED ONLY TO SHOW GENERAL SYSTEM. CONTRACTOR SHALL CONSIDER ACTUAL FIELD CONDITIONS DURING INSTALLATION. ANY GROSS INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE CONTINUING. 4 COMPLETE ELECTRICAL SYSTEMS SHALL BE TESTED FOR COMPLIANCE AND FUNCTION IN ACCORDANCE WITH LOCAL INSPECTIONS AND 5 PROVIDE COMPLETE AND COMPLIANT EQUIPMENT AND SYSTEM GROUNDING THROUGHOUT ELECTRICAL INSTALLATION. INSTALL BONDING JUMPERS TO OUTLET BOXES IN METALLIC CONDUIT SYSTEMS. 6 ALL 3Φ CIRCUITS SHALL HAVE A-B-C PHASE ROTATION. ALL 3Φ ELECTRICAL SWITCHGEAR, SWITCHBOARDS, MCC'S, AND SIMILAR EQUIPMENT SHALL HAVE A-B-C PHASE ROTATION FROM LEFT TO RIGHT. REFER TO THE POWER WIRING COLOR CODE ON THIS SHEET. 7 WITH ALL LIGHTING AND MOTOR LOADS OPERATING, CONTRACTOR SHALL VERIFY THAT THE PHASE BALANCE IN EACH PANEL IS WITHIN 5%. 8 VERIFY AVAILABLE CIRCUIT CURRENT WITH ELECTRICAL POWER SUPPLIER. 9 VERIFY ALL ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURERS. COORDINATE WITH MECHANICAL, PLUMBING, AND GENERAL CONTRACTORS. 10 ALL EXTERIOR EQUIPMENT SHALL BE NEMA 3R RAINTIGHT. 11 FIRE-STOPPING SYSTEM SHALL BE INSTALLED AT ALL PIPING PENETRATIONS THROUGH FIRE-RATED WALLS, CEILINGS, OR CONSTRUCTION. 12 CONTRACTOR SHALL FIELD VERIFY THAT ALL RUNS OF SERVICE ENTRANCE OR FEEDER CONDUCTORS FOR EACH CIRCUIT FOLLOW THE SAME PATH AND ARE OF EQUAL LENGTH. 13 CONDUIT SUBJECT TO THERMAL EXPANSION OF MORE THAN 1/4" OVER A TEMPERATURE RANGE OF 100° F SHALL BE INSTALLED WITH AN EXPANSION FITTING. ALL SUPPORTS SHALL BE LOOSE ENOUGH TO ALLOW THE CONDUIT TO EXPAND AND CONTRACT WITH TEMPERATURE CHANGE. CAREFUL CONSIDERATION SHALL BE MADE TO THE TEMPERATURE AT THE TIME OF INSTALLATION AND THE POSITION OF THE - IF THE TEMPERATURE IS 30° F, THEN THE EXPANSION FITTING SHOULD BE INSTALLED IN THE CLOSED POSITION. - IF THE TEMPERATURE IS 85° F, THE N THE EXPANSION FITTING SHOULD BE INSTALLED MORE IN THE OPEN POSITION. FOR PVC CONDUIT, REFER TO NEC ARTICLE 352.44 FOR EXPANSION CHARACTERISTICS. 14 WHERE A20 BRANCH CIRCUIT HOME RUNS ARE LONGER THAN 50', USE A30 WIRE FROM PANEL TO FIRST OUTLET OR FIXTURE. 15 THE DESIGN INTENT OF THE ENGINEER IS FOR EACH CIRCUIT TO BE INSTALLED IN A SINGLE CONDUIT OR RACEWAY. IT SHALL BE PERMITTED TO INSTALL MULTIPLE CIRCUITS CONSISTING OF #10 OR SMALLER IN A SINGLE CONDUIT OR RACEWAY, CONTINGIENT UPON THE CODE COMPLIANCE 16 LOCATE DEVICE BOXES ON OPPOSITE SIDES OF FIRE WALLS A MINIMUM HORIZONTAL DISTANCE OF 24" APART. IF MOUNTED CLOSER, FIRE RATING SHALL BE MAINTAINED. 17 CONTRACTOR SHALL LABEL ALL RECEPTACLES WITH THE PANEL AND CIRCUIT NUMBER POWERING THE DEVICE. USE THE FORMAT " [PANEL NAME] - [CIRCUIT #] ". THE LABEL SHALL BE PLACED ON THE FACEPLATE AS PRACTICAL. 18 COORDINATE FINAL LOCATIONS OF ALL SWITCHES AND OUTLETS WITH OWNER. OWNER SHALL RETAIN RIGHT TO MAKE MINOR LOCATION ADJUSTMENTS PRIOR TO EQUIPMENT INSTALLATION WITHOUT ADDITIONAL COST. 19 LOCATE ALL LIGHT FIXTURES ACCORDING TO REFLECTED CEILING PLAN. COORDINATE MOUNTING REQUIREMENTS WITH CEILING TYPE

20 ELECTRICAL WORK SHALL INSTALL CIRCUITS TO HVAC CONTROLLERS AND HVAC EQUIPMENT. MECHANICAL WORK SHALL TERMINATE

PROTECTION UON. THE ENCLOSURE NEMA RATING SHALL BE COORDINATED AS REQUIRED BY THE ENVIRONMENT.

THE DATE OF SUBSTANTIAL COMPLETION UNLESS OTHERWISE NOTED IN THE PLANS AND/OR SPECIFICATIONS.

RECESSED

RECESSED

21 THE AMPACITY, VOLTAGE, AND PHASE OF ALL DISCONNECTS SHALL BE RATED PER THE SPECIFIED CIRCUIT AND UPSTREAM OVERCURRENT

RESPONSIBILITY OF THE CONTRACTOR TO BRING IT TO THE ATTENTION OF THE ENGINEER BEFORE WORK IS STARTED OR MATERIAL/EQUIPMENT

25 THE PLANS AND SPECIFICATIONS FOR THIS WORK HAVE BEEN PREPARED WITH THE INTENT TO BE AS ACCURATE AND COMPLETE AS PRACTICAL,

26 CONTRACTOR SHALL WARRANTY ALL SYSTEMS FOR PARTS, EQUIPMENT, MATERIAL, AND LABOR FOR A MINIMUM PERIOD OF ONE YEAR FROM

27 THE OWNER AND/OR OWNER'S REPRESENTATIVE SHALL INSPECT THE INSTALLATION AT SUBSTANTIAL COMPLETION AND AT ONE YEAR FROM

A. ALL ELECTRICAL EQUIPMENT SHALL BE AFFIXED WITH A PERMANENT LABEL STATING THE EQUIPMENT NAME, VOLTAGE AND PHASE CLASS,

B. PANEL DIRECTORIES SHALL BE TYPED SHOWING EACH BRANCH BREAKER DESCRIPTION AS SHOWN IN THE PANEL SCHEDULES.

29 SUBMITTAL REQUIREMENTS: CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL DETAILED PRODUCT INFORMATION ON ALL EQUIPMENT INCORPORATED IN THE PROJECT RELATED TO THE SPECIFIC CONTRACTOR TRADE. SUBMITTAL SHALL BE PROVIDED, AND ENGINEER SHALL REVIEW AND APPROVE, PRIOR TO EQUIPMENT PURCHASE. FOUR COPIES OF SUBMITTALS SHALL BE PROVIDED

BUT ERRORS, OMISSIONS, AND CONFLICTS MAY EXIST. PRIOR TO SUBMITTING A BID FOR CONSTRUCTING THE WORK, THE CONTRACTOR SHALL

PRIOR TO SUBMITTING A BID. BY SUBMITTING A BID FOR THE WORK, THE CONTRACTOR ACKNOWLEDGES THAT HE HAS REVIEWED THE PLANS

REVIEW THE PLANS AND SPECIFICATIONS IN DETAIL. ANY QUESTIONS OR COMMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER

SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORRECTIONS THAT DO NOT CONFORM TO THE CODE AND/OR

TO THE ENGINEER. TWO COPIES SHALL BE RETURNED TO THE CONTRACTOR. PRIOR TO SUBMITTAL, CONTRACTOR SHALL REVIEW AND CERTIFY BY SIGNATURE THE SUBMITTED EQUIPMENT MEETS SPECIFICATION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS, FITTINGS, AND

CONSTRUCTION FEATURES RELATIVE TO EQUIPMENT. APPROVAL OF SUBMITTAL INFORMATION BY THE ENGINEER ONLY REFERS TO MATERIALS,

LED 2'x4' LINEAR FIXTURE LED 2'x2' LINEAR FIXTURE

LED EMERGENCY LIGHT

(1) DUPLEX OUTLET

LED WALL PACK - 8' AFF UON

LED WALL PACK - 8' AFF UON

W/ INTEGRATED PHOTOCELL BUTTON

W/ INTEGRATED PHOTOCELL BUTTON

W/ INTEGRAL BATTERY BACKUP

W/ INTEGRATED BATTERY BACKUP

DESIGN. AND ADHERENCE TO SPECIFICATIONS. "APPROVED EQUAL" MEANS THE CONTRACTOR SHALL SUBMIT A REQUEST FOR ALTERNATE

EQUIPMENT AND/OR MATERIAL FOR ENGINEER'S REVIEW AND APPROVAL. THE CONTRACTOR SHALL NOT ASSUME THE ALTERNATE WILL BE

22 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY FEES AND CHARGES FOR INSTALLATION AND UTILITY UPGRADES FOR PROJECT. 23 CONTRACTOR SHALL COORDINATE AND PAY FOR ALL PERMITS, INSPECTION FEES, UTILITY FEES, AND UTILITY CHARGES FOR THIS PROJECT.

24 IF DISCREPANCIES EXIST WITHIN THE PLANS AND/OR SPECIFICATIONS, THE MOST STRINGENT SHALL APPLY AND IT SHALL BE THE

AND SPECIFICATIONS, UNDERSTANDS THE DESIGN INTENT, AND DOES NOT HAVE ANY FURTHER QUESTIONS OR COMMENTS.

SPECIFIED BY ARCHITECT. MAINTAIN ALL WALL AND CEILING FIRE RATINGS.

CONDUCTORS WITHIN HVAC EQUIPMENT.

AMPACITY, AND WHERE THE EQUIPMENT IS FED FROM.

LIGHTING FIXTURE SCHEDULE

LEGRAND

SLAB-ON-GRADE

A. HATCHING ON PLANS INDICATES ILLUMINATED SIDES OF LIGHT - SEE PLANS FOR CHEVRONS

VWP-H-L30-740-T3-EM/4W-PC WALL

RFBA2R30OG

2FPZ42B840-4-DS-UNV

2FPZ38B840-2-DS-UNV

VWP-H-L30-740-T3-PC

28 LABEL REQUIREMENTS:

LABEL MANUFACTURER

A DAY-BRITE

B DAY-BRITE

X1 CHLORIDE

D HE WILLIAMS

D1 HE WILLIAMS

LABEL	ELECTRODE CONDUCTOR	CONDUCTORS PER CONDUIT	NUMBER OF RUNS	MINIMUM CONDUIT	CONDUCTOR AMPACITY 75 °C	Φ	VOLTA RANG
1S60	#8	(3) #6	1	2"	65	1	208 - 4
1S100	#8	(3) #3	1	3"	100	1	208 - 4
1S150	#6	(3) #1/0	1	3"	150	1	208 - 4
1S200	#4	(3) #3/0	1	3"	200	1	208 - 4
1S225	#2	(3) #4/0	1	3"	230	1	208 - 4
1S400	#1/0	(3) #3/0	2	3"	400	1	208 - 4
1S400	#1/0	(3) #600 KCM	1	4"	420	1	208 - 4
1S600	#3/0	(3) #3/0	3	3"	600	1	208 - 48
1S600	#3/0	(3) #350 KCM	2	3"	620	1	208 - 48
1S800	#3/0	(3) #3/0	4	3"	800	1	208 - 48
1S800	#3/0	(3) #300 KCM	3	3"	855	1	208 - 48
1S1000	#3/0	(3) #250 KCM	4	3"	1020	1	208 - 48
3S100	#8	(4) #3	1	3"	100	3	208 - 48
3S200	#4	(4) #3/0	1	3"	200	3	208 - 48
3S225	#2	(4) #4/0	1	3"	230	3	208 - 48
3S400	#1/0	(4) #3/0	2	3"	400	3	208 - 48
3S600	#3/0	(4) #350 KCM	2	3"	620	3	208 - 48
3S800	#3/0	(4) #300 KCM	3	3"	855	3	208 - 48
3S1000	#3/0	(4) #400 KCM	3	3"	1005	3	208 - 48
3S1000	#3/0	(4) #250 KCM	4	3"	1020	3	208 - 48
3S1200	#3/0	(4) #350 KCM	4	3"	1240	3	208 - 48
3S1400	#3/0	(4) #500 KCM	4	4"	1520	3	208 - 48
3S1600	#3/0	(4) #400 KCM	5	3"	1675	3	208 - 48
3S2000	#3/0	(4) #600 KCM	5	4"	2100	3	208 - 48
3S2500	#3/0	(4) #600 KCM	6	4"	2520	3	208 - 48
3S3000	#3/0	(4) #500 KCM	8	4"	3040	3	208 - 48
3S3500	#3/0	(4) #700 KCM	8	4"	3680	3	208 - 48
3S3500	#3/0	(4) #600 KCM	9	4"	3780	3	208 - 4
3S4000	#3/0	(4) #600 KCM	10	4"	4200	3	208 - 48

SERVICE ENTRANCE CONDUCTOR & CONDUIT LEGEND

EL	GROUNDING ELECTRODE CONDUCTOR	CONDUCTORS PER CONDUIT	NUMBER OF RUNS	MINIMUM CONDUIT	CONDUCTOR AMPACITY 75 °C	Ф	VOLTAGE RANGE
30	#8	(3) #6	1	2"	65	1	208 - 480
00	#8	(3) #3	1	3"	100	1	208 - 480
50	#6	(3) #1/0	1	3"	150	1	208 - 480
00	#4	(3) #3/0	1	3"	200	1	208 - 480
25	#2	(3) #4/0	1	3"	230	1	208 - 480
00	#1/0	(3) #3/0	2	3"	400	1	208 - 480
00	#1/0	(3) #600 KCM	1	4"	420	1	208 - 480
00	#3/0	(3) #3/0	3	3"	600	1	208 - 480
00	#3/0	(3) #350 KCM	2	3"	620	1	208 - 480
00	#3/0	(3) #3/0	4	3"	800	1	208 - 480
00	#3/0	(3) #300 KCM	3	3"	855	1	208 - 480
000	#3/0	(3) #250 KCM	4	3"	1020	1	208 - 480
00	#8	(4) #3	1	3"	100	3	208 - 480
00	#4	(4) #3/0	1	3"	200	3	208 - 480
25	#2	(4) #4/0	1	3"	230	3	208 - 480
00	#1/0	(4) #3/0	2	3"	400	3	208 - 480
00	#3/0	(4) #350 KCM	2	3"	620	3	208 - 480
00	#3/0	(4) #300 KCM	3	3"	855	3	208 - 480
000	#3/0	(4) #400 KCM	3	3"	1005	3	208 - 480
000	#3/0	(4) #250 KCM	4	3"	1020	3	208 - 480
200	#3/0	(4) #350 KCM	4	3"	1240	3	208 - 480
400	#3/0	(4) #500 KCM	4	4"	1520	3	208 - 480
300	#3/0	(4) #400 KCM	5	3"	1675	3	208 - 480
000	#3/0	(4) #600 KCM	5	4"	2100	3	208 - 480
500	#3/0	(4) #600 KCM	6	4"	2520	3	208 - 480
000	#3/0	(4) #500 KCM	8	4"	3040	3	208 - 480
500	#3/0	(4) #700 KCM	8	4"	3680	3	208 - 480
500	#3/0	(4) #600 KCM	9	4"	3780	3	208 - 480
000	#3/0	(4) #600 KCM	10	4"	4200	3	208 - 480



			IRED			
ABEL	CONDUCTORS PER CONDUIT	NUMBER OF RUNS	MINIMUM CONDUIT	CONDUCTOR AMPACITY 75 °C	Ф	VOLTAGE RANGE
A20	(2) #12 & (1) #12 GND.	1	1/2"	20	1	120 OR 277
A30	(2) #10 & (1) #10 GND.	1	3/4"	30	1	120 OR 277
A50	(2) #8 & (1) #10 GND.	1	3/4"	50	1	120 OR 277
B20	(3) #12 & (1) #12 GND.	1	1/2"	20	1	208 - 480
B30	(3) #10 & (1) #10 GND.	1	3/4"	30	1	208 - 480
B50	(3) #8 & (1) #10 GND.	1	3/4"	50	1	208 - 480
B60	(3) #6 & (1) #10 GND.	1	3/4"	65	1	208 - 480
B80	(3) #4 & (1) #8 GND.	1	1"	85	1	208 - 480
B100	(3) #3 & (1) #8 GND.	1	1-1/2"	100	1	208 - 480
B110	(3) #2 & (1) #6 GND.	1	1-1/2"	115	1	208 - 480
B125	(3) #1 & (1) #6 GND.	1	1-1/2"	130	1	208 - 480
B150	(3) #1/0 & (1) #6 GND.	1	2"	150	1	208 - 480
B175	(3) #2/0 & (1) #6 GND.	1	2"	175	1	208 - 480
B200	(3) #3/0 & (1) #6 GND.	1	2"	200	1	208 - 480
B225	(3) #4/0 & (1) #4 GND.	1	2-1/2"	230	1	208 - 480
B250	(3) #250 KCM & (1) #4 GND.	1	2-1/2"	255	1	208 - 480
B275	(3) #300 KCM & (1) #4 GND.	1	2-1/2"	285	1	208 - 480
B300	(3) #350 KCM & (1) #4 GND.	1	3"	310	1	208 - 480
3350	(3) #500 KCM & (1) #3 GND.	1	3"	380	1	208 - 480
3400	(3) #3/0 & (1) #3 GND.	2	2"	400	1	208 - 480
3450	(3) #4/0 & (1) #2 GND.	2	2-1/2"	460	1	208 - 480
3500	(3) #250 KCM & (1) #2 GND.	2	2-1/2"	510	1	208 - 480
3600	(3) #350 KCM & (1) #1 GND.	2	3"	620	1	208 - 480
3800	(3) #300 KCM & (1) #1/0 GND.	3	2-1/2"	855	1	208 - 480
31000	(3) #250 KCM & (1) #2/0 GND.	4	2-1/2"	1020	1	208 - 480
31200	(3) #350 KCM & (1) #3/0 GND.	4	3"	1240	1	208 - 480
C20	(4) #12 & (1) #12 GND.	1	1/2"	20	3	208 - 480
C30	(4) #10 & (1) #10 GND.	1	3/4"	30	3	208 - 480
C50	(4) #8 & (1) #10 GND.	1	3/4"	50	3	208 - 480
C60	(4) #6 & (1) #10 GND.	1	1"	65	3	208 - 480
C80	(4) #4 & (1) #8 GND.	1	1-1/2"	85	3	208 - 480
C100	(4) #3 & (1) #8 GND.	1	1-1/2"	100	3	208 - 480
C110	(4) #2 & (1) #6 GND.	1	1-1/2"	115	3	208 - 480
C125	(4) #1 & (1) #6 GND.	1	1-1/2"	130	3	208 - 480
C150	(4) #1/0 & (1) #6 GND.	1	2"	150	3	208 - 480
C175	(4) #2/0 & (1) #6 GND.	1	2"	175	3	208 - 480
C200	(4) #3/0 & (1) #6 GND.	1	2"	200	3	208 - 480
C225	(4) #4/0 & (1) #4 GND.	1	3"	230	3	208 - 480
C250	(4) #250 KCM & (1) #4 GND.	1	3"	255	3	208 - 480
C300	(4) #350 KCM & (1) #4 GND.	1	3"	310	3	208 - 480
C350	(4) #500 KCM & (1) #3 GND.	1	3-1/2"	380	3	208 - 480
C400	(4) #3/0 & (1) #3 GND.	2	2"	400	3	208 - 480
C450	(4) #4/0 & (1) #2 GND.	2	3"	460	3	208 - 480
C500	(4) #250 KCM & (1) #2 GND.	2	3"	510	3	208 - 480
C600	(4) #350 KCM & (1) #1 GND.	2	3"	620	3	208 - 480
C800	(4) #300 KCM & (1) #1/0 GND.	3	3"	855	3	208 - 480
	(4) #250 KCM & (1) #1/0 GND.	4	3"	1020	3	208 - 480
21000						

A20	(2) #12 & (1) #12 GND.	l I	1/2	20	1 1	120 UR 277
A30	(2) #10 & (1) #10 GND.	1	3/4"	30	1	120 OR 277
A50	(2) #8 & (1) #10 GND.	1	3/4"	50	1	120 OR 277
B20	(3) #12 & (1) #12 GND.	1	1/2"	20	1	208 - 480
B30	(3) #10 & (1) #10 GND.	1	3/4"	30	1	208 - 480
B50	(3) #8 & (1) #10 GND.	1	3/4"	50	1	208 - 480
B60	(3) #6 & (1) #10 GND.	1	3/4"	65	1	208 - 480
B80	(3) #4 & (1) #8 GND.	1	1"	85	1	208 - 480
B100	(3) #3 & (1) #8 GND.	1	1-1/2"	100	1	208 - 480
B110	(3) #2 & (1) #6 GND.	1	1-1/2"	115	1	208 - 480
B125	(3) #1 & (1) #6 GND.	1	1-1/2"	130	1	208 - 480
B150	(3) #1/0 & (1) #6 GND.	1	2"	150	1	208 - 480
B175	(3) #2/0 & (1) #6 GND.	1	2"	175	1	208 - 480
B200	(3) #3/0 & (1) #6 GND.	1	2"	200	1	208 - 480
B225	(3) #4/0 & (1) #4 GND.	1	2-1/2"	230	1	208 - 480
B250	(3) #250 KCM & (1) #4 GND.	1	2-1/2"	255	1	208 - 480
B275	(3) #300 KCM & (1) #4 GND.	1	2-1/2"	285	1	208 - 480
B300	(3) #350 KCM & (1) #4 GND.	1	3"	310	1	208 - 480
B350	(3) #500 KCM & (1) #3 GND.	1	3"	380	1	208 - 480
B400	(3) #3/0 & (1) #3 GND.	2	2"	400	1	208 - 480
B450	(3) #4/0 & (1) #2 GND.	2	2-1/2"	460	1	208 - 480
B500	(3) #250 KCM & (1) #2 GND.	2	2-1/2"	510	1	208 - 480
B600	(3) #350 KCM & (1) #1 GND.	2	3"	620	1	208 - 480
B800	(3) #300 KCM & (1) #1/0 GND.	3	2-1/2"	855	1	208 - 480
B1000	(3) #250 KCM & (1) #2/0 GND.	4	2-1/2"	1020	1	208 - 480
B1200	(3) #350 KCM & (1) #3/0 GND.	4	3"	1240	1	208 - 480
C20	(4) #12 & (1) #12 GND.	1	1/2"	20	3	208 - 480
C30	(4) #10 & (1) #10 GND.	1	3/4"	30	3	208 - 480
C50	(4) #8 & (1) #10 GND.	1	3/4"	50	3	208 - 480
C60	(4) #6 & (1) #10 GND.	1	1"	65	3	208 - 480
C80	(4) #4 & (1) #8 GND.	1	1-1/2"	85	3	208 - 480
C100	(4) #3 & (1) #8 GND.	1	1-1/2"	100	3	208 - 480
C110	(4) #2 & (1) #6 GND.	1	1-1/2"	115	3	208 - 480
C125	(4) #1 & (1) #6 GND.	1	1-1/2"	130	3	208 - 480
C150	(4) #1/0 & (1) #6 GND.	1	2"	150	3	208 - 480
C175	(4) #2/0 & (1) #6 GND.	1	2"	175	3	208 - 480
C200	(4) #3/0 & (1) #6 GND.	1	2"	200	3	208 - 480
C225	(4) #4/0 & (1) #4 GND.	1	3"	230	3	208 - 480
C250	(4) #250 KCM & (1) #4 GND.	1	3"	255	3	208 - 480
C300	(4) #350 KCM & (1) #4 GND.	1	3"	310	3	208 - 480
C350	(4) #500 KCM & (1) #4 GND.	1	3-1/2"	380	3	208 - 480
C400	(4) #3/0 & (1) #3 GND.	2	2"	400	3	208 - 480
C450	(4) #4/0 & (1) #2 GND.	2	3"	460		208 - 480
C500	(4) #250 KCM & (1) #2 GND.	2	3"	510	3 3	208 - 480
		2	3"		_	
C600 C800	(4) #350 KCM & (1) #1 GND.	3	3"	620 855	3	208 - 480 208 - 480
	(4) #300 KCM & (1) #1/0 GND.		3"		3	
C1000	(4) #250 KCM & (1) #2/0 GND.	4	3"	1020	3	208 - 480
C1200	(4) #350 KCM & (1) #3/0 GND.	4		1240	3	208 - 480
C1400	(4) #500 KCM & (1) #4/0 GND.	4	3-1/2"	1520	3	208 - 480
C1600	(4) #400 KCM & (1) #4/0 GND.	5	3"	1675	3	208 - 480

	X2	CHLORIDE	CLCNGW	WALL	LED EXIT / EMERGEN	CY COMBO LIGHT	۸		120	C300	(4) #230 KCIVI &	(1) #2 GND.
	^∠	CHLORIDE	CLCINGVV	VVALL		BATTERY BACKUP	Α	5	120	C600	0 (4) #350 KCM &	(1) #1 GND.
					1 11120101120	<i>5,</i> (1, 12, (1, 5, (0)(0)				C800	0 (4) #300 KCM & (1) #1/0 GND.
										C100	00 (4) #250 KCM & (1) #2/0 GND.
										C120	00 (4) #350 KCM & (1) #3/0 GND.
										C140	00 (4) #500 KCM & (1) #4/0 GND.
										C160	00 (4) #400 KCM & (1) #4/0 GND.
										C200	00 (4) #600 KCM & (1) #	250 KCM GND.
(-	QUIPME USE COO	ENT NOTES: SPECIFIED EQUIPN RDINATE EXACT LO	MENT. OCATIONS WITH ARCHI		D OTHER TRADES.				V	• ALL NON	CTRICAL MATE NMETALLIC MATERIAL TO BE UPERMITTED AS FOLLOWS: WHEN USED FOR 6' WHIPS TO E	IV-RESISTANT
(•			PROVIDE AND INSTALL A							< L	DESCRIPTION	MATE
•	FLOC	OR BOX COVER SH	ALL BE METAL.							SWITCHE	ES ,	
LA	ABEL	TYPE	MANUFACTURER	MODEL	ELECTRICAL	TEI	LECOM AN	ND A/V		\	SAFETY SWITCHES	GENERAL DU
	FB	SLAB-ON-GRADE	LEGRAND	REBA2R30OG	(1) DUPLEX OUTLET) BOXES		

NOTES WATTS VOLTS

TRICAL MATERIALS SCHEDULE

UP TO 3/4"

1" TO 1-1/2"

1-3/4" & UP

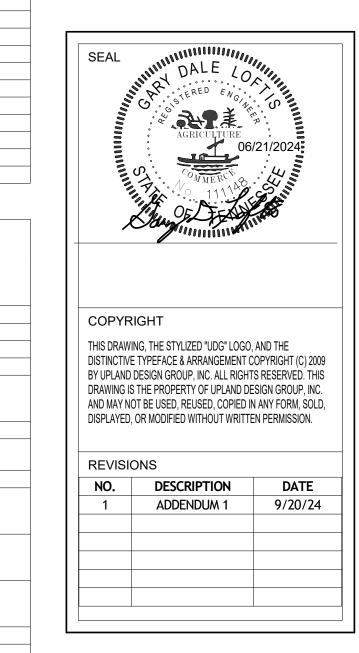
GALVANIZED STEEL

(4) #600 KCM & (1) #250 KCM GND.

DESCRIPTION	MATERIAL	STANDARDS	REMARKS
SWITCHES	1		
SAFETY SWITCHES	GENERAL DUTY TYPE#	UL 98	QUICK MAKE / QUICK BREAK
BOXES			
PULL / JUNCTION / OUTLET BOX	GALVANIZED STEEL	UL 731A	1 1/2" MINIMUM DEPTH COORDINATE SIZE WITH NEC COORDINATE COVER MATERIAL & COLOR W/ ARCH/OWNER
RECEPTACLES			
DUPLEX RECEPTACLES	NEMA 5-20R 20-AMP 125-VOLT	UL498	GROUNDING TYPE
WIRE / CABLE			
#10 & SMALLER	600-VOLT THHN / THWN	UL 83	CLASS B OR C STRANDED TINNED SOFT DRAWN COPPER
#8 & LARGER	600-VOLT THHN / THWN	UL 83	CLASS B OR C STRANDED TINNED SOFT DRAWN COPPER
FIXTURE CONDUCTORS	105°C 600-VOLT THHN / THWN	UL 83	STRANDED TINNED SOFT DRAWN COPPER
MC-MX	METAL-CLAD CABLE		PERMITTED IN CONCEALED SPACES
CONDUIT			
RMC	GALVANIZED STEEL	HH 9359	• USE FOR FEEDERS AND UNDERGROUND, UNDERSLAB, AND ABOVE GROUND SERVICE ENTRANCE
PVC	RIGID POLYVINYL CHLORIDE SCHEDULE 40 & 80	NEMA TC-2	USE FOR UNDERGROUND AND UNDERSLAB SERVICE ENTRANCE CONDUCTORS, FEEDERS, AND COMMUNICATION ENTRANCE AND TRUNK LINES
EMT	ELEC. METALLIC TUBING GALVANIZED DUCTILE STEEL	HE 8141	• USE ABOVE SLAB FOR FEEDERS, BRANCH CIRCUITS, AND COMMUNICATIONS

• 5'-0" O/C MAXIMUM

• 7'-0" O/C MAXIMUM • 9'-0" O/C MAXIMUM



ultur BC Pr

1. S

208 - 480

JOB NO.	2235 MLE JOB NO.22067
ISSUE DA	06/21/2024
	CTRICAL NOTES ND LEGENDS
JGR	SHEET NO.
REVIEW	E0.1

ELECTRICAL NOTES

- NUMBERED NOTES
- REWORK ALL EXISTING CIRCUITS IN THIS
 SPACE TO NEW PANEL LOCATIONS.
 REUSE EXISTING PANELS AND
 BREAKERS AS REQUIRED.
- 2 DIMENSIONS HAVE BEEN SHOWN TO CENTER OF FLOOR BOX LOCATION. COORDINATE EXACT LOCATION WITH ARCHITECTURE AND TTU PRIOR TO ROUGH-IN.
- 3 1/2" CONDUIT ROUTED IN WALL TO CABINET ABOVE CEILING.
 4 3" CONDUIT FOR FIBER OPTIC CABLING ROUTED FROM HYDER-BURKS PAVILION IT SPACE STUBBED UP INTO STORAGE 108.



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