



DATE: November 16, 2022
TO: Potential Respondents
FROM: Carrie Stoeckert—Senior Construction Contract Coordinator
SUBJECT: Questions #1
RFCSP752-23-261209CS
UNT Advanced Air Mobility (UAAM) Test Center

This document is being issued to answer questions that have been submitted as follows:

NOTICE: Please note the Response due date, HSP due date and Opening dates have changed:

RESPONSE DUE: January 3, 2023 @ 2:00 PM CST
HSP DUE DATE: January 4, 2023 @ 2:00 PM CST
OPENING: January 10, 2023 @ 2:00 PM

1. Please provide the site-specific geotechnical report.
 - a. **See attached document.**
2. The Division 00 and Division 01 specification sections that are shown in the file attached are missing from the project manual. Please provide these sections.
 - a. **Since the project is fairly simple we will forego the Division 01 sections.**
3. Legend item #4 on C2.00 indicates decomposed granite mow strip, with a sub-note to Add Separate Bid Item. Is this scope to be included in the base bid or provided as an alternate? Please provide a section detail for this material.
 - a. **The mow strip is to be part of the base bid. A mow strip detail has been added to sheet C9.00.**
4. Please provide details for the concrete transformer pad, concrete base and unistrut frame for the new electrical panel, and the concrete pad for the IT cabinet.
 - a. **Electrical pad detail has been added to Sheet C9.00.**
5. The provided bid form indicates no alternates; however, the following alternates were listed on the documents; please clarify a. Sheet E2.01 - Add Alt #1: Provide (2) duplexes at pole mounted at 3ft and 10ft above ground. b. Sheet T1.01 - Add Alt #1: Provide (2) data drops at pole mounted at 10ft, 15ft above grade. Typical all poles with (2) drops. Sheet T1.01 - Add Alt #2: Provide (1) 6" C in lieu of (1) 4" C.
 - a. **Revise bid form to include alternates attached.**

6. Please provide an interior floor plan showing the locations of existing electrical and IDF rooms, as well as any rated partitions.
 - a. **See attached. Room H101A is the IDF closet. H139 is the mechanical/electrical room.**
7. Sheet E2.01 keyed note #5 indicates to provide 1500W 5G equipment. Please provide make and model of required 5G equipment.
 - a. **Scope is to provide socket/power for 5G equipment for power consumption of 1300-1500w w/ 110v. Equipment will be provided by UNT at a later date.**
8. Please provide the location of the keyed switch for the pole-mounted site light fixtures shown on E1.01.
 - a. **The Intermatic time clock is lockable and is the keyed switched reference on the lighting set.**
9. Is the Contractor allowed to make use of existing restrooms on-site?
 - a. **Unfortunately, no.**
10. Please indicate location for Contractor parking. Will parking permit costs be required?
 - a. **Parking permits will be issued by UNT for Lot 94.**
11. Please advise if there is a location onsite to haul off spoils from concrete piers?
 - a. **Yes, location to be coordinated onsite.**
12. Due to the specialty nature of the drone netting scope of work, there are limited subcontractors able to perform this work. None of which are HUB certified. Please advise on how this scope of work should be represented on the HUB Subcontracting Plan.
 - a. **If the HUB goal is being met for the project than you would just need to list the sub-contractor you selected for the scope.**
 - b. **If the HUB goal is not being met, a good faith effort is required as part of the Method B instructions. If you need assistance with completing a Method B and locating potential HUBs for the scope, you can email hub@untsystem.edu. Based on your statement, we will have to complete a search for HUBs who do drone work. If the HUBs you contact do not respond or are not able to complete the scope of work, you can indicate you selected a non-HUB.**
 - c. **If you believe an exception should be made for the “good faith effort”, you can email the HUB coordinator Michelle.mccauley@untsystem.edu. She will determine if one can be made.**
13. Where can we obtain copy of plans and specifications? Will they be uploaded in Jaggaer?
 - a. **The Plans and Specs other than those additional attached hereto are already attached to the RFCSP as an Exhibit.**

14. According to the structural sheets, the steel columns and netting are to be provide by others. Please confirm if this scope is for the GC or for the Owner.

a. By contractor

15. Also, I do show there is some synthetic turf but there is no detail callout.

a. Detail No. 3 in Sheet C9.00 corresponds to the synthetic turf detail.

16. Who is responsible for providing the cabling?

a. UNT System vendor.

BASE BID

Pursuant to and in compliance with the Contract Documents and any attachments thereto, including the Advertisement for Competitive Sealed Proposal and Instruction for Proposals, the Proposer hereby certifies that it has, carefully examined the Contract Documents entitled:

UNT UAAM Test Center **Prepared by: Walter P. Moore**

Proposal can be bid on both of the following or just one based on the service the contractor can provide: Provide required materials, services for either or both scopes:

- 1. Civil, structural, ground cover, power/data infrastructure**
- 2. Poles and netting**

Base Bid #1: The conditions affecting the Work, and being familiar with the site; and having made the necessary examinations, proposes to furnish all labor, materials, equipment, and services necessary to complete the Work in strict accordance with the Contract Documents for the above referenced project for the civil, structural, ground cover, power/data infrastructure, etc. excluding poles and netting for the following sum **(Not including bond cost)**:

\$

Base Bid #2: The conditions affecting the Work, and being familiar with the site; and having made the necessary examinations, proposes to furnish all labor, materials, equipment, and services necessary to complete the Work in strict accordance with the Contract Documents for the above referenced project for the poles and netting for the following sum **(Not including bond cost)**:

\$

ALTERNATE BIDS

Number	Description of Alternate Bid:	Additive/Deductive	Bid Amount:
1	Sheet E2.01 - Provide (2) duplexes at pole mounted at 3ft and 10ft above ground.	<input type="checkbox"/> Additive <input type="checkbox"/> Deductive	\$
2	Sheet T1.01 - Add Alt #1: Provide (2) data drops at pole mounted at 10ft, 15ft above grade. Typical all poles with (2) drops.	<input type="checkbox"/> Additive <input type="checkbox"/> Deductive	\$
3	Sheet T1.01 - Add Alt #2: Provide (1) 6" C in lieu of (1) 4" C.	<input type="checkbox"/> Additive <input type="checkbox"/> Deductive	\$

Project:
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Client:
**University of North Texas
Discovery Campus
3940 N Elm Street
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Consultants / Discipline:



511 E John Carpenter Fwy
Suite 250
Irving, TX 75062
BandHengineers.com
Registration No. 9102

Keyplan:

Issues/Revisions:

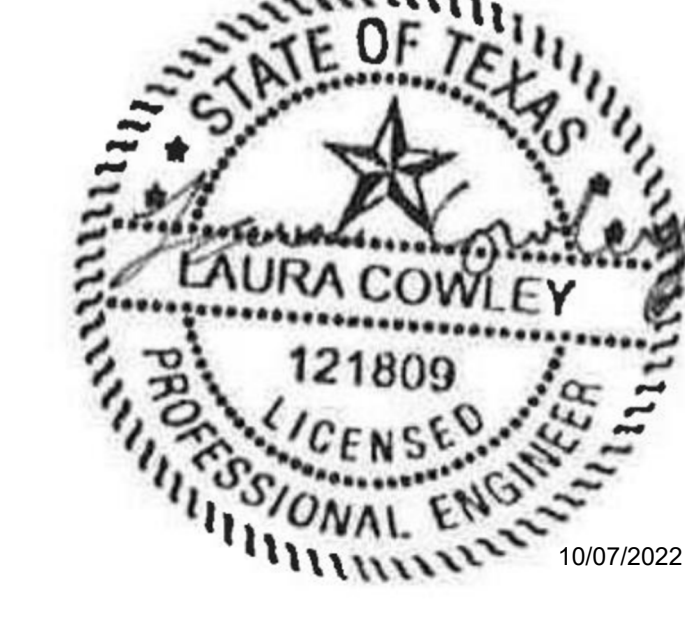
BID SET

No.	Date	Description

Project: UNT UAV Drawn By: LC
Project Number: M04-22008-00
Approved: LC Checked By: LG
By:

Certification Statement:
TO THE BEST OF THE ENGINEER'S KNOWLEDGE,
THE PLANS AND SPECIFICATIONS COMPLY WITH
THE APPLICABLE MINIMUM BUILDING CODES.

Seal and Signature:



Drawing Title:

LIGHTING PLAN

Filename:
Sheet No.:

E1.01

LIGHT FIXTURE SCHEDULE														
TYPE	SIZE	DESCRIPTION	FINISH	MOUNTING	CCT	LUMENS	HOURS	WATTS	UNITS	DRIVER	VOLTAGE	MANUFACTURER	CATALOG NUMBER	NOTES
S1	26" X 13"	AREA SITE LIGHT	BLACK	20FT ON NET POLE	5000	10,486	100,000	92	EACH	0-10V DIMMING	MVOLT	LITHONIA	DSX0-LED-P4-50K-T4M-MVOLT-RPA-DBLXD	
S1L	26" X 13"	AREA SITE LIGHT	BLACK	20FT ON NET POLE	5000	6,523	100,000	92	EACH	0-10V DIMMING	MVOLT	LITHONIA	DSX0-LED-P4-50K-LCCO-MVOLT-RPA-DBLXD	
S1R	26" X 13"	AREA SITE LIGHT	BLACK	20FT ON NET POLE	5000	6,523	100,000	92	EACH	0-10V DIMMING	MVOLT	LITHONIA	DSX0-LED-P4-50K-RCCO-MVOLT-RPA-DBLXD	
S2	26" X 13"	AREA SITE LIGHT	BLACK	20FT ON NET POLE	5000	4,771	100,000	38	EACH	0-10V DIMMING	MVOLT	LITHONIA	DSX0-LED-P4-50K-TFTM-MVOLT-RPA-DBLXD	

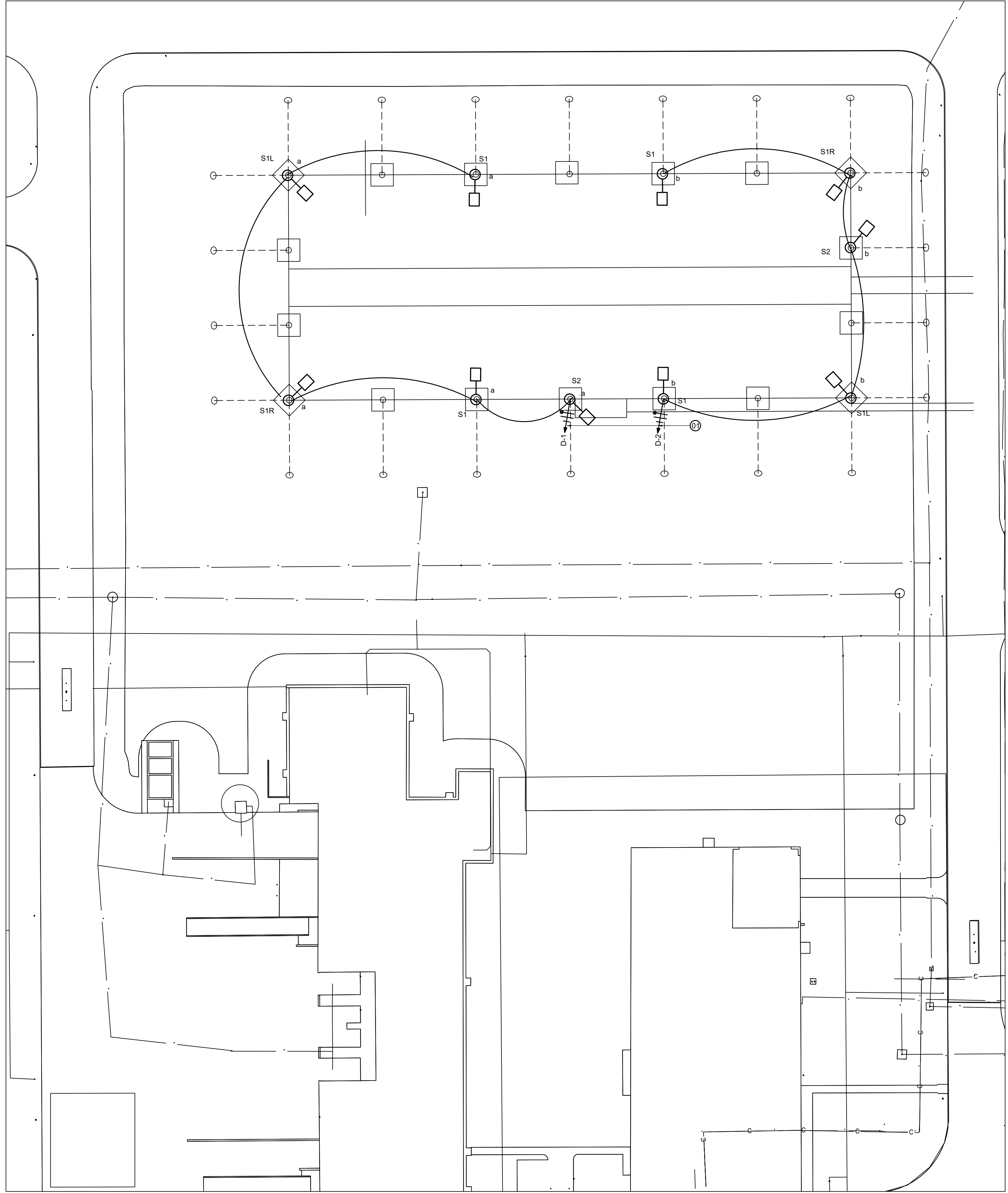
GENERAL NOTES:
1. ALL REQUESTS FOR SUBSTITUTIONS/ALTERNATES MUST BE SUBMITTED TO ENGINEER 7 DAYS PRIOR TO BID FOR APPROVAL. ALL SUBMISSIONS SHALL INCLUDE DETAILED CUT SHEETS AND PERFORMANCE DATA

LIGHTING NOTES:

- LIGHT FIXTURES TO HAVE INTEGRAL DAYLIGHT SENSOR AND MOTION SENSOR. AFTER 15 MIN OF INACTIVITY, LIGHTS TURN OFF. LIGHTS MANUALLY TURNED ON WITH KEYED SWITCH ONLY IF <3FC.
- SUBMIT LIGHTING PLAN TO Facilities.GIS@unt.edu.

LIGHTING KEYED NOTES:

- RUN 2#10, #10G, -3/4" C. TO 1P/20A CIRCUIT BREAKER CIRCUIT AS SHOWN VIA TIME CLOCK.



01 LIGHTING PLAN
SCALE: 1" = 30'-0"
TRUE NORTH

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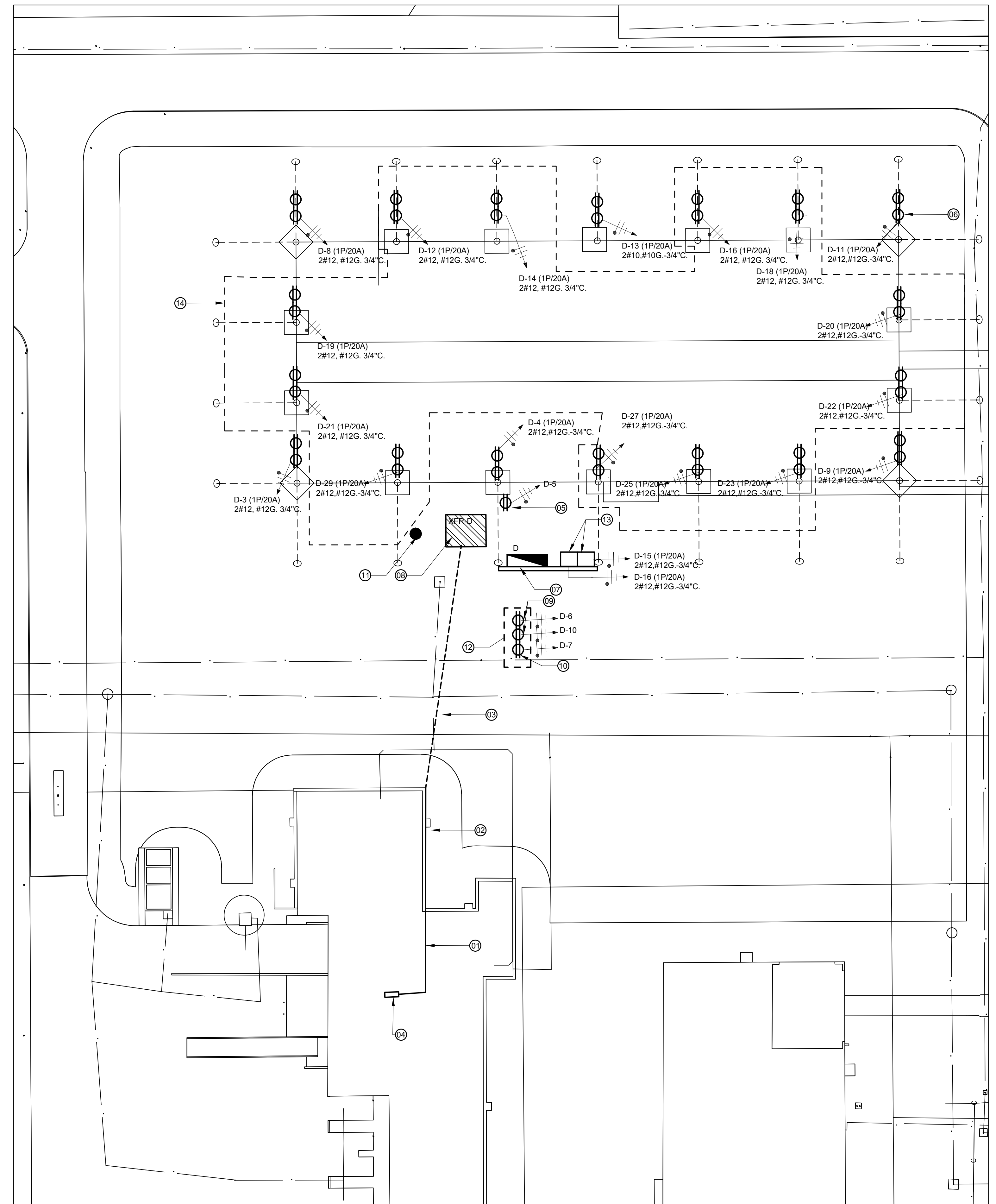


Drawing Title:

POWER PLAN

Filename:
Sheet No.:

E2.01



01 POWER PLAN
SCALE: 1" = 30'-0"
TRUE NORTH

- POWER NOTES:**
1. MOUNT PANEL ON UNISTRUIT.
 2. ALL RECEPTACLES TO BE TRV WP/IGFI.
- POWER KEYED NOTES:**
1. ROUTE CONDUIT IN PLENUM AROUND BLAST PROOF ROOM H155.
 2. MOUNT CONDUIT TO EXTERIOR OF BUILDING AT PLENUM HEIGHT.
 3. DIRECT BURY CONDUIT UNDERGROUND WITH TOP OF CONDUIT TO BE MINIMUM OF 24" BELOW GRADE. COORDINATE WITH EXISTING UNDERGROUND UTILITIES.
 4. EXISTING CSA PANEL WITH SPARE BREAKER.
 5. PROVIDE 1500W 5G EQUIPMENT AT 3FT ABOVE GROUND ON EXTERIOR OF POLE.
 6. PROVIDE (2) DUPLEXES AT POLE MOUNTED AT 3FT AND 10FT ABOVE GROUND. TYPICAL ALL POLES WITH (2) DUPLEXES.
 7. NEW PANEL 'D' MOUNTED ON UNISTRUIT. REFER TO SHEET E3.01 FOR ADDITIONAL INFORMATION.
 8. NEW TRANSFORMER 'XFR-D' SET ON TOP OF PAD 8" ABOVE FINAL GRADE. REFER TO SHEET E3.01 FOR ADDITIONAL INFORMATION. PROVIDE 3.5FT CLEAR IN FRONT OF XFR.
 9. PROVIDE 120V, 1P, 20A DEDICATED CIRCUIT TO DATA SWITCH.
 10. PROVIDE 120V, 1P, 20A DEDICATED CIRCUIT TO UPS.
 11. PROVIDE 3/4" X 10FT GROUND ROD. TIE TRANSFORMER TO GROUND ROD VIA GROUNDING CONDUCTOR.
 12. DUPLEXES MOUNTED IN LOW VOLTAGE CABINET. REFER TO T1.01 FOR EXACT LOCATION.
 13. PROVIDE INTERMATIC ET 8015C TIME CLOCK IN LOCKABLE NEMA 3R ENCLOSURE.
 14. ADD ALT #1: PROVIDE (2) DUPLEXES AT POLE MOUNTED AT 3FT AND 10FT ABOVE GROUND.

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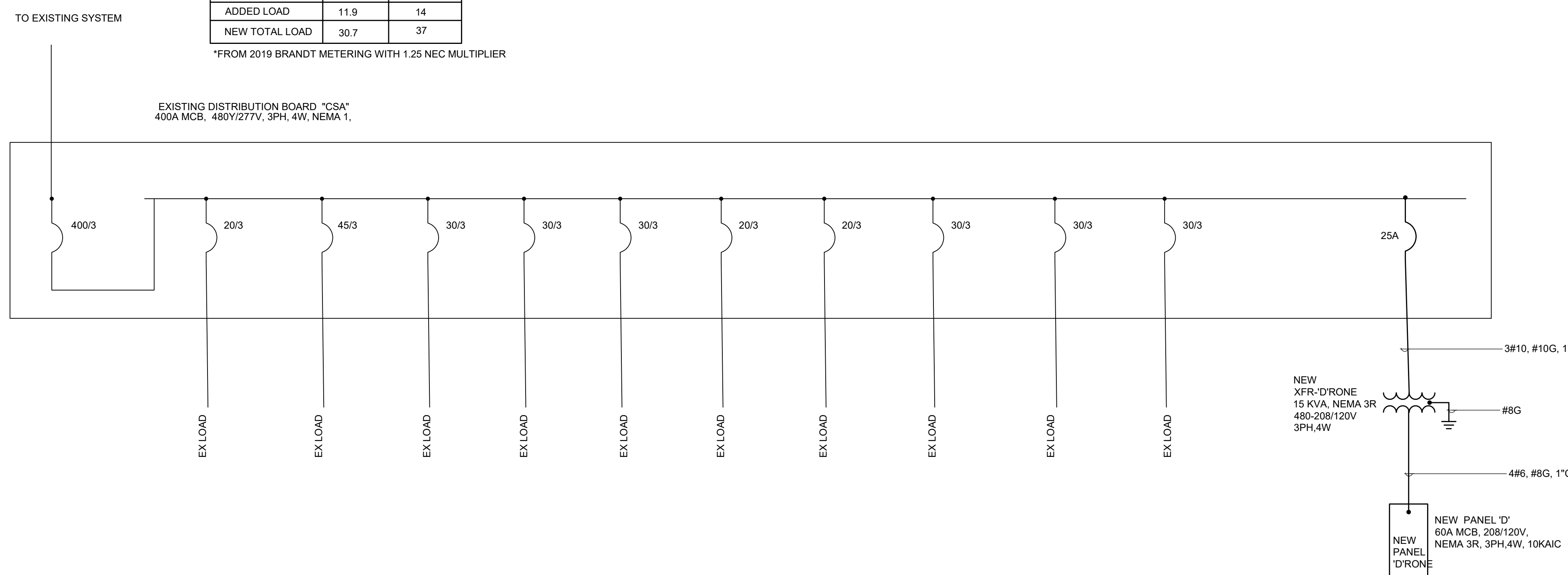
**ELECTRICAL RISER
DIAGRAM & SCHEDULES**

Filename:
Sheet No.:

E3.01

LOAD TYPE	KVA	AMPS
EXISTING LOAD	18.8	22.6*
ADDED LOAD	11.9	14
NEW TOTAL LOAD	30.7	37

*FROM 2019 BRANDT METERING WITH 1.25 NEC MULTIPLIER



01 ELECTRICAL ONE-LINE DIAGRAM
SCALE: NONE

PANELBOARD SCHEDULE (NEW)																	
MAIN SIZE: 100 A MAIN TYPE: 60 MCB SECTION 1										PANEL NAME: D							
AIC RATING: 10,000 MOUNTING: SURFACE										VOLTAGE: 208/120V 3PH,4W							
DESCRIPTION	AMPS	LOAD (KVA)							LOAD (KVA)				AMPS	DESCRIPTION			
		POLE	LTG	RCPT	MTR	HEAT	KITCH	MISC	MISC	KITCH	HEAT	MTR			RCPT	LTG	
1	POLE LIGHTS CKT W	20/1	0.40									1	A	2	20/1	POLE LIGHTS CKT E	2
3	RECEPTS. CKT SW	20/1		0.36								3	B	4	20/1	RECEPTS. CKT S	4
5	SG EQUIP	20/1		1.50								5	C	6	20/1	SWITCH	6
7	UPS	20/1					1.00					7	A	8	20/1	RECEPTS. CKT S	8
9	RECEPTS. CKT SE	20/1		0.36								9	B	10	20/1	SWITCH. CKT S	10
11	RECEPTS. CKT NE	20/1		0.36								11	C	12	20/1	RCPT-NORTH 1	12
13	RECEPTS. CKT NE	20/1		0.36								13	A	14	20/1	RCPT-NORTH 2	14
15	TIME CLOCK 1	20/1					0.01					15	B	16	20/1	RCPT-NORTH 3	16
17	TIME CLOCK 2	20/1					0.01					17	C	18	20/1	RCPT-NORTH 4	18
19	RCPT-WEST 1	20/1		0.36								19	A	20	20/1	RCPT-EAST 1	20
21	RCPT-WEST 2	20/1		0.36								21	B	22	20/1	RCPT-EAST 2	22
23	RCPT-SOUTH 1	20/1		0.36								23	C	24	20/1	SPACE	24
25	RCPT-SOUTH 2	20/1		0.36								25	A	26	20/1		26
27	RCPT-SOUTH 3	20/1		0.36								27	B	28	20/1		28
29	RCPT-SOUTH 4	20/1		0.36								29	C	30	20/1		30
31		20/1										31	A	32	20/1		32
33		20/1										33	B	34	20/1		34
35		20/1										35	C	36	20/1		36
37	SPD	20/3										37	A	38	20/1		38
39		-										39	B	40	20/1		40
41		-										41	C	42	20/1		42
TOTAL AMPS:		33.3	0.40	5.10	0.00	0.00	0.00	1.02				2.00	0.00	0.00	0.00	2.88	0.40

REMARKS: 1. PROVIDE FACTORY MOUNTED 'SPD'.

LOAD	LOAD (KVA)			CONN		MULT	DESN KVA
	A	B	C	KVA	MULT		
LIGHTING	0.80	0.00	0.00	0.80	1.25	1.00	
RECEPTACLE	2.16	2.52	3.30	7.98	NEC	7.98	
MOTOR	0.00	0.00	0.00	0.00	NEC	0.00	
LARGEST MOTOR	HP: 1	FLC: 4.60				8.00	
	VOLT/PHASE: 208/3		KVA: 1.66			9.00	
HEAT	0.00	0.00	0.00	0.00	1.00	0.00	
KITCHEN	0.00	0.00	0.00	0.00	0.65	0.00	
MISCELLANEOUS	1.00	1.01	1.01	3.02	1.00	3.02	
TOTAL	3.96	3.53	4.31	11.80		12.00	
SPARE	0	AT	0.5	EA		0.0	
TOTAL + SPARE						12.0	

TOTAL DESN AMPS: 33.3

Next Standard Bus Rating: 60
Next Standard Trip Rating: 35
SELECTED TRIP RATING: 100

CALC. FAULT AT PNL:
Next Standard AIC Rating: 0
SELECTED AIC RATING: 10

PROJECT NAME: XXXX
PROJECT NUMBER: XXXX

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Keyplan:

Issues/Revisions

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Seal and Signature:

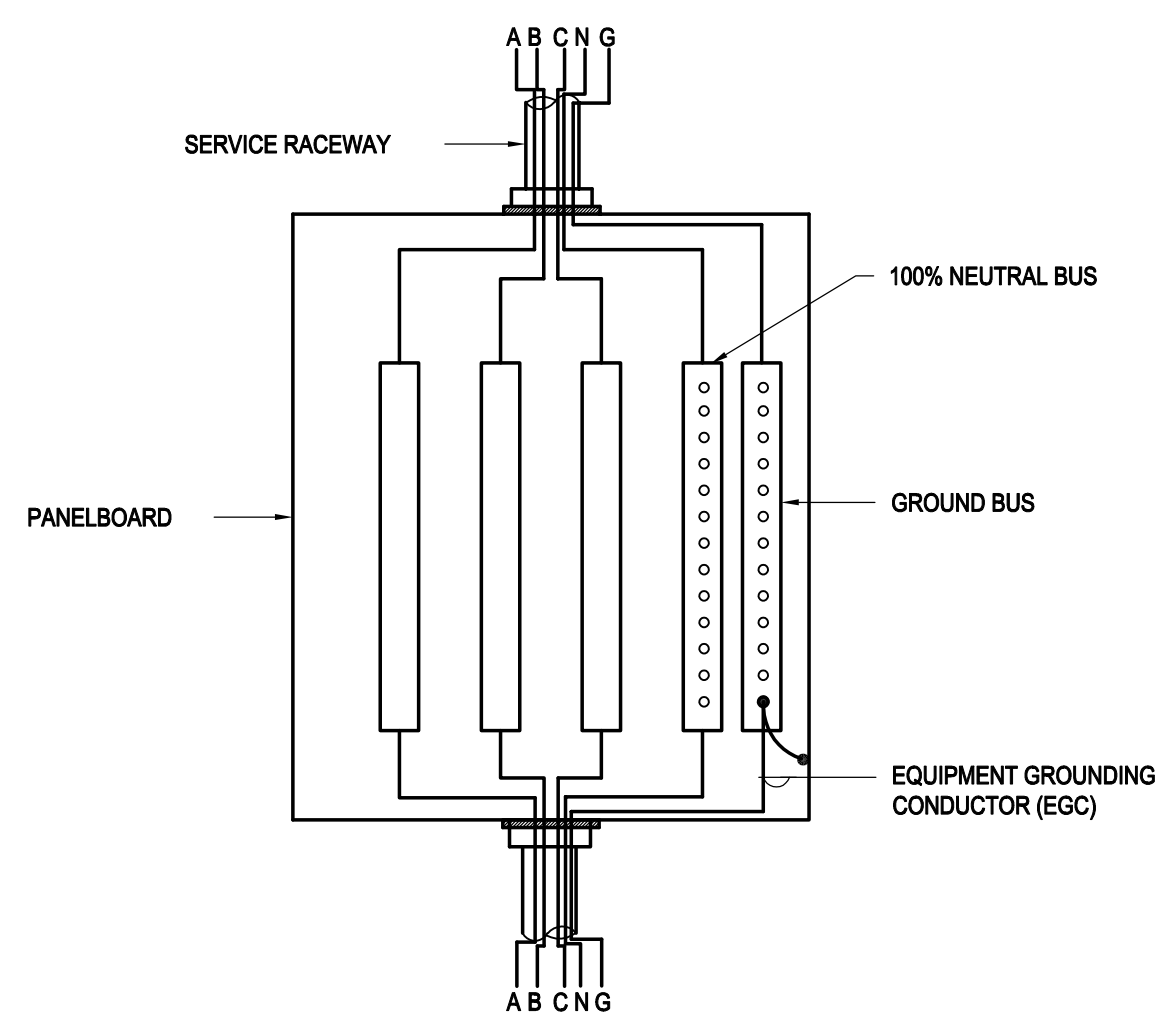


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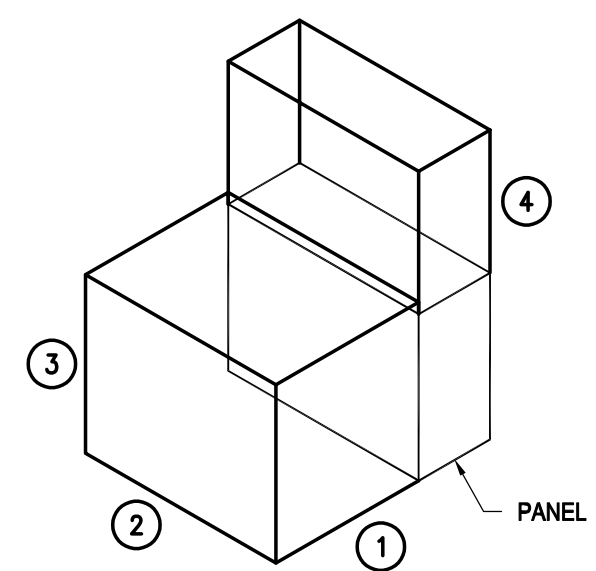
ELECTRICAL DETAILS

Filename:

Sheet No.:

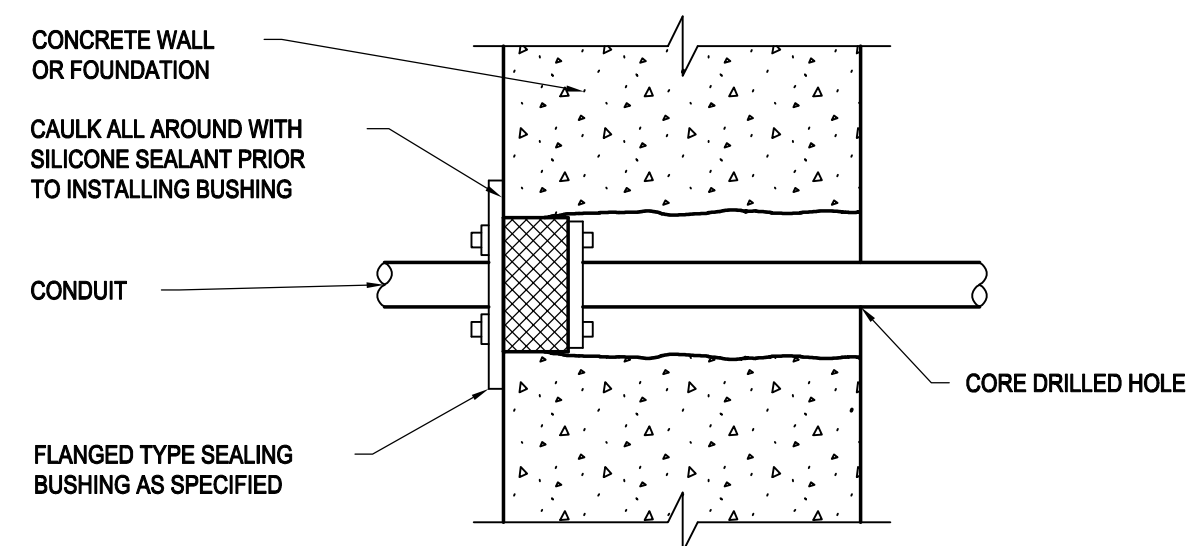


06 PANELBOARD DETAIL
SCALE: NONE

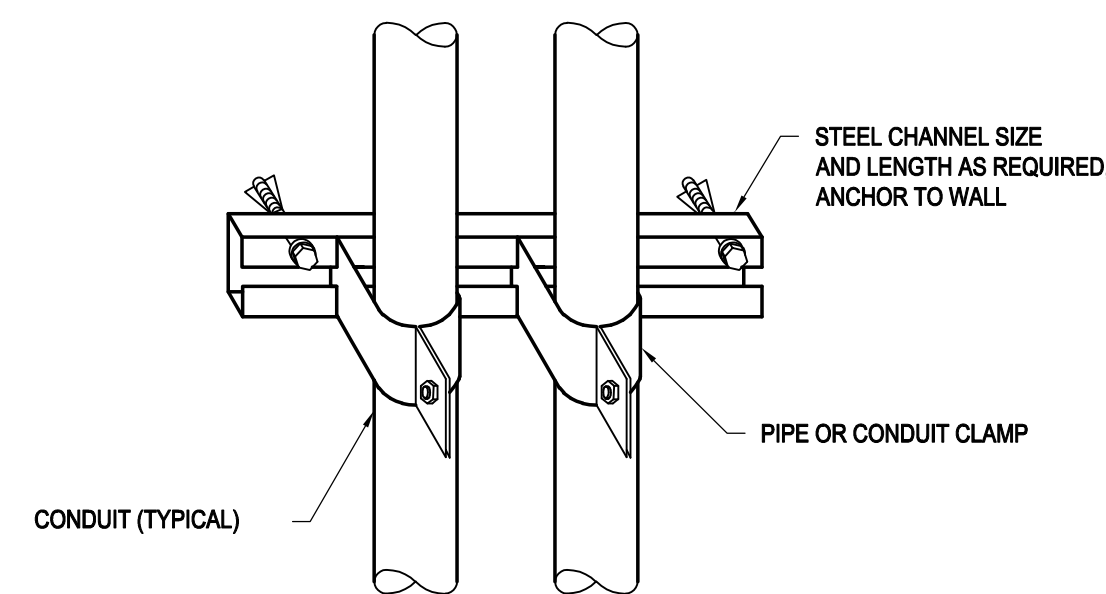


- NOTES BY SYMBOL:**
- ① REFER TO NEC ARTICLE 110.26(A)(1)(a) THROUGH 110.26(A)(1)(c) FOR DEPTH OF WORKING SPACE FOR ELECTRICAL EQUIPMENT 600V OR LESS.
 - ② REFER TO NEC ARTICLE 110.26(A)(2) FOR WIDTH OF WORKING SPACE FOR ELECTRICAL EQUIPMENT 600V OR LESS.
 - ③ REFER TO NEC ARTICLE 110.26(A)(3) FOR HEIGHT OF WORKING SPACE FOR ELECTRICAL EQUIPMENT 600V OR LESS.
 - ④ REFER TO NEC ARTICLE 110.26(E)(1)(a) THROUGH 110.23(E)(1)(d) FOR DEDICATED EQUIPMENT SPACE FOR ELECTRICAL EQUIPMENT 600V OR LESS.

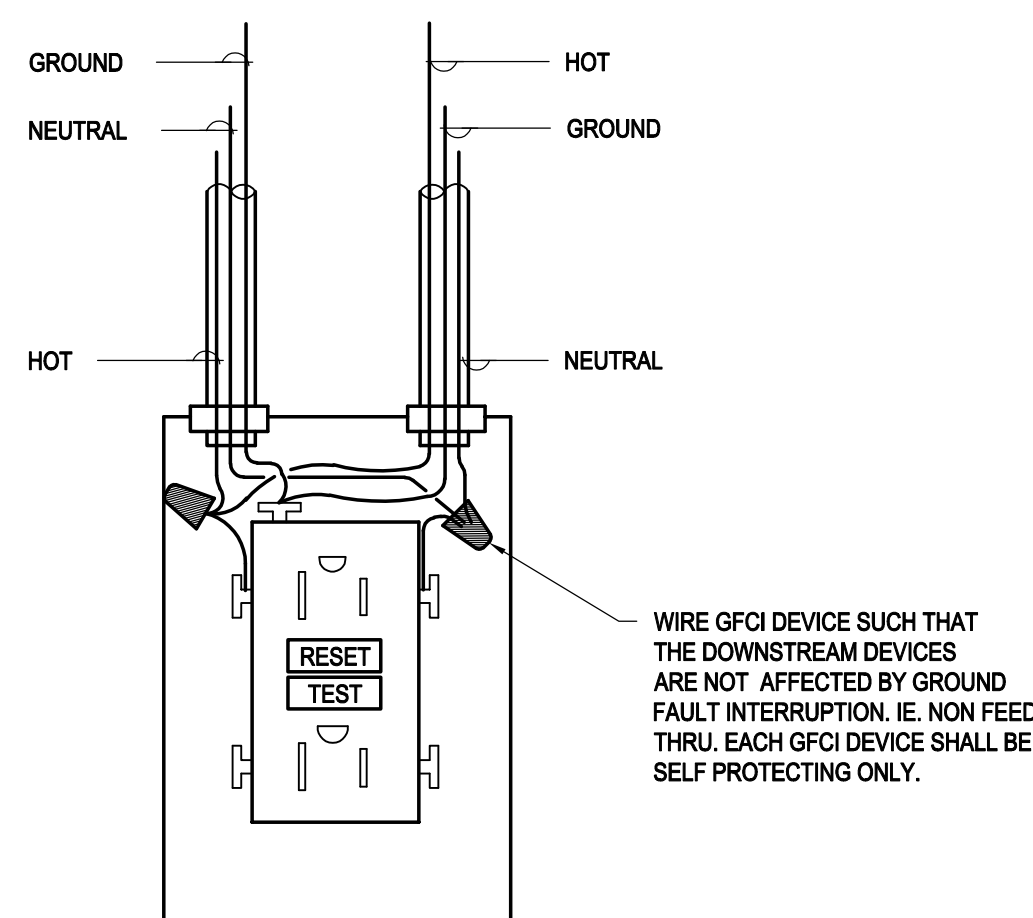
05 PANELBOARD CLEARANCE DETAIL
SCALE: NONE



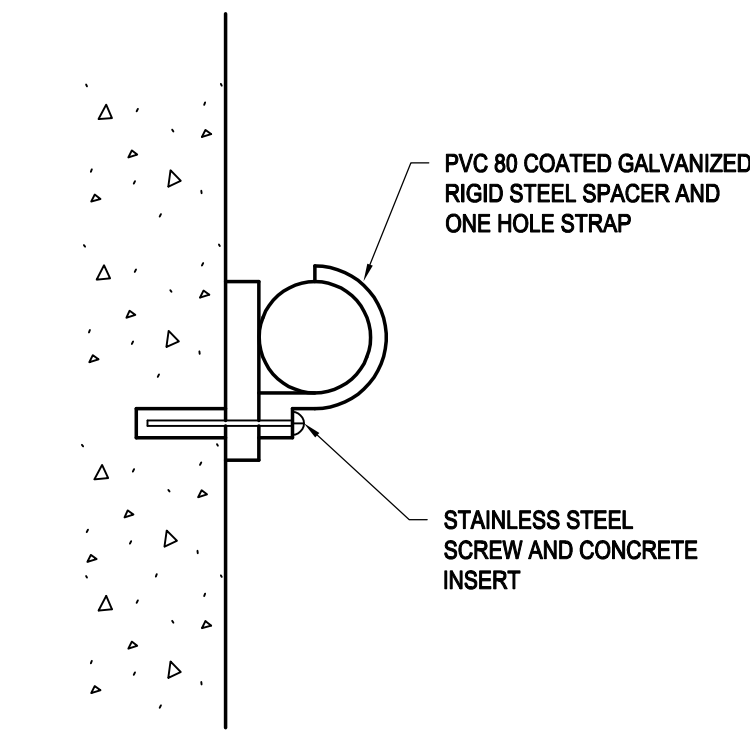
**08 WATERTIGHT CONDUIT
PENETRATION - EXISTING STRUCTURE**
SCALE: NONE



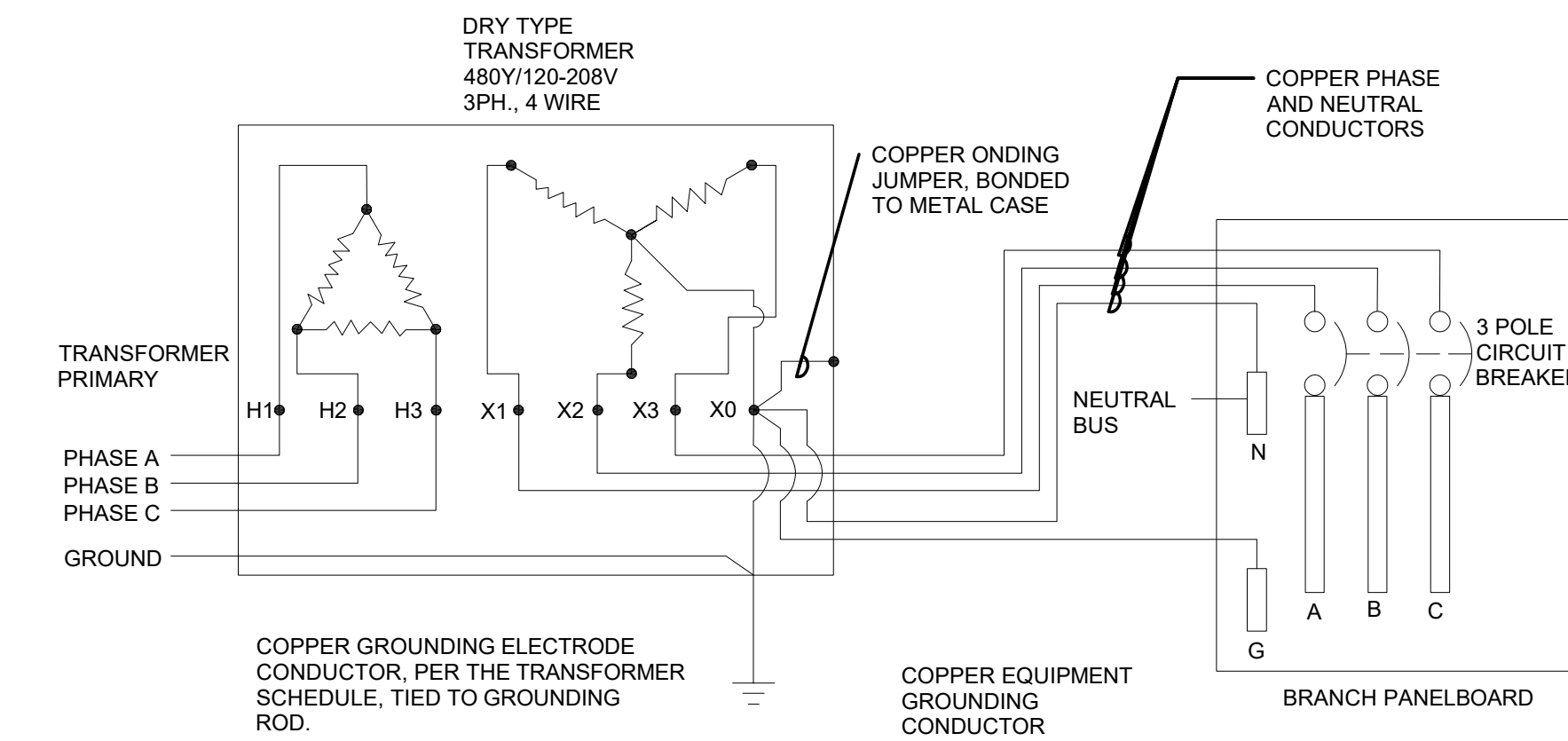
07 WALL MOUNTED CONDUIT SUPPORT DETAIL
SCALE: NONE



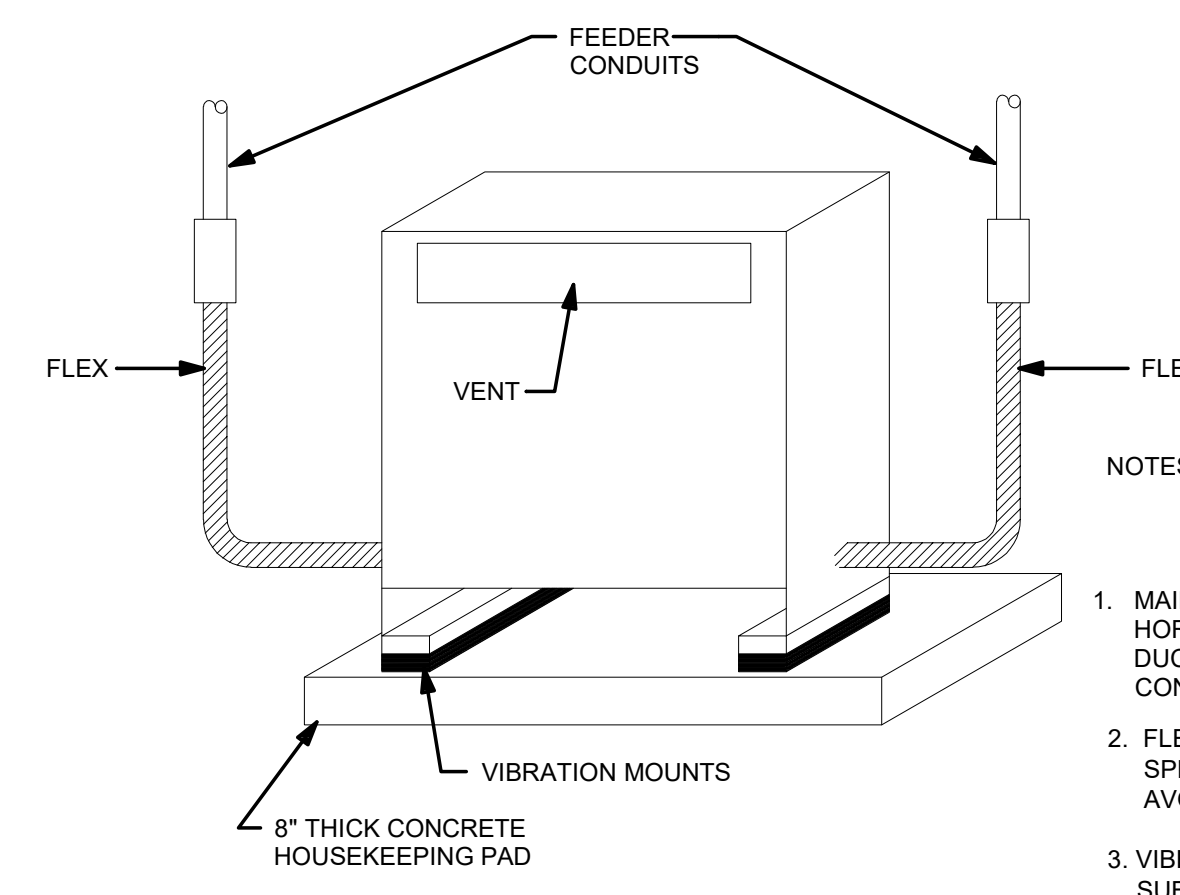
04 GFCI RECEPTACLE WIRING DIAGRAM
SCALE: NONE



**03 EXPOSED CONDUIT
INSTALLATION DETAIL**
SCALE: NONE



02 TRANSFORMER FLOOR MOUNTED DETAIL
SCALE: NONE



01 TRANSFORMER FLOOR MOUNTED DETAIL
SCALE: NONE

- NOTES:**
1. MAINTAIN MINIMUM OF 6" DISTANCE FROM HORIZONTAL CONSTRUCTION (WALLS, DUCTS, ETC.) AND 12" FROM ALL VERTICAL CONSTRUCTIONS (CEILINGS, DUCTS, ETC.).
 2. FLEXIBLE CONDUIT SHALL BE LENGTH IN SPECIFICATIONS AND POSITIONED TO AVOID TRANSMISSION OF VIBRATION.
 3. VIBRATION ISOLATORS SHALL BE SUBMITTED FOR APPROVAL.

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Table with 3 columns: No., Date, Description

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Seal and Signature :



10/07/2022

Drawing Title:

LOW VOLTAGE SYMBOLS

Filename :

Sheet No. :

T0.00

Main table with columns: ABBREVIATIONS, TELECOMMUNICATIONS, SECURITY, GENERAL CONDITIONS, GENERAL NOTES, WIRELESS ACCESS POINTS

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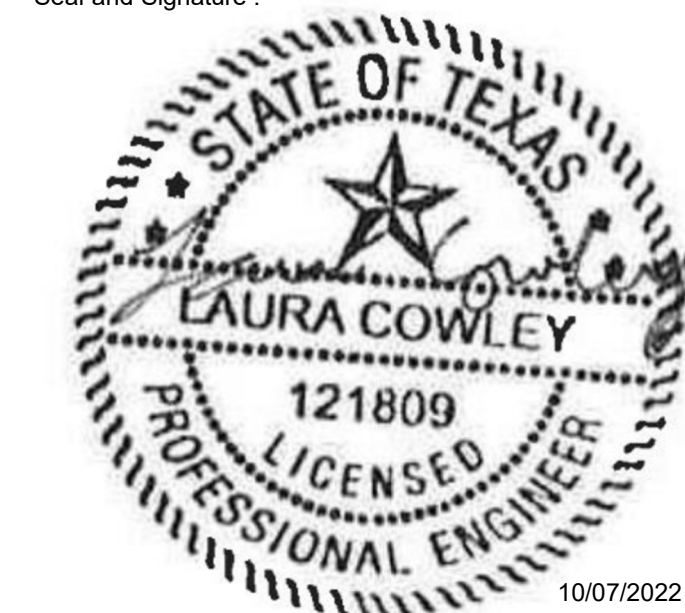
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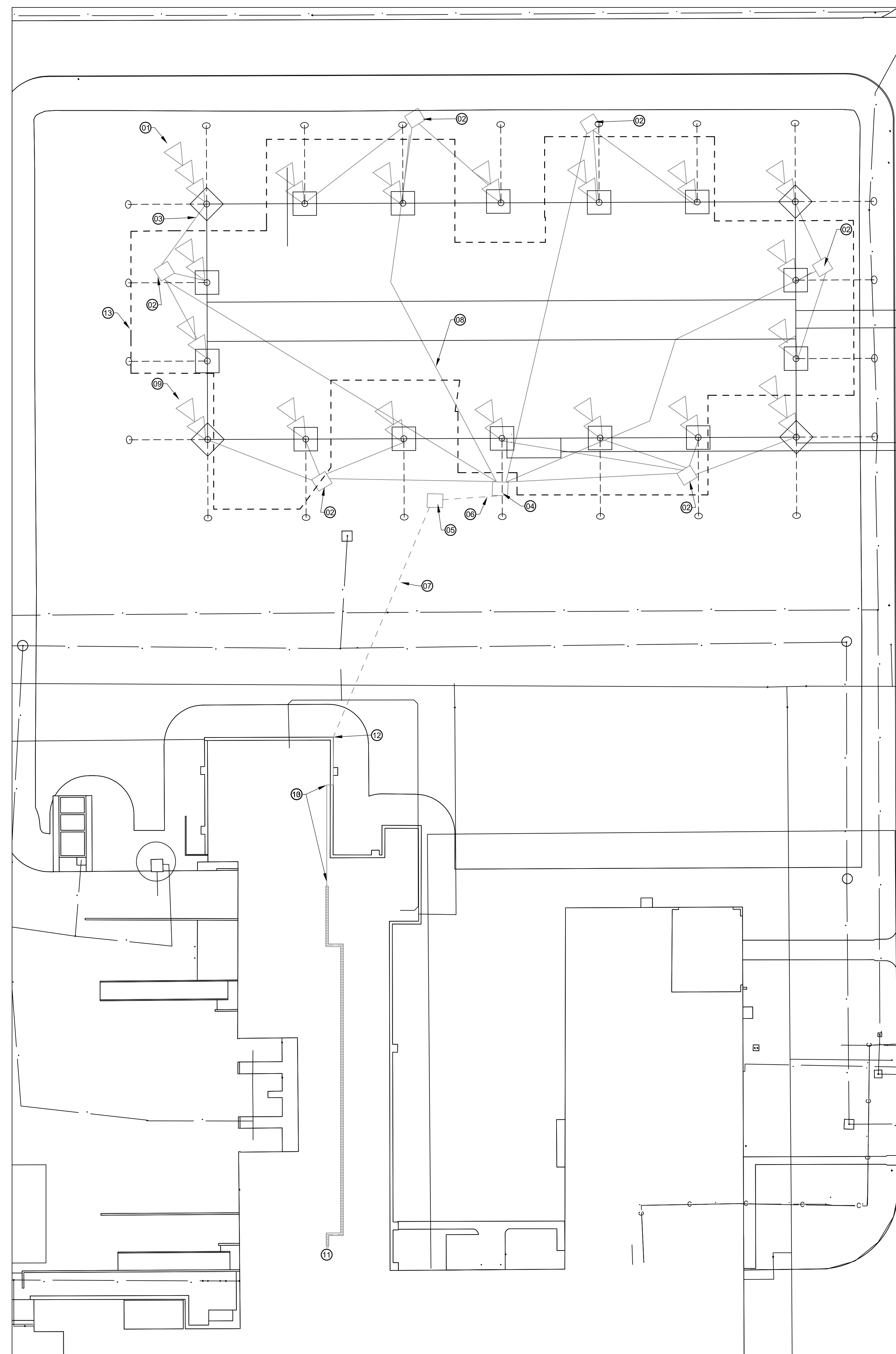


Drawing Title:

**LOW VOLTAGE
 PATHWAYS PLAN**

Filename:
 Sheet No.:

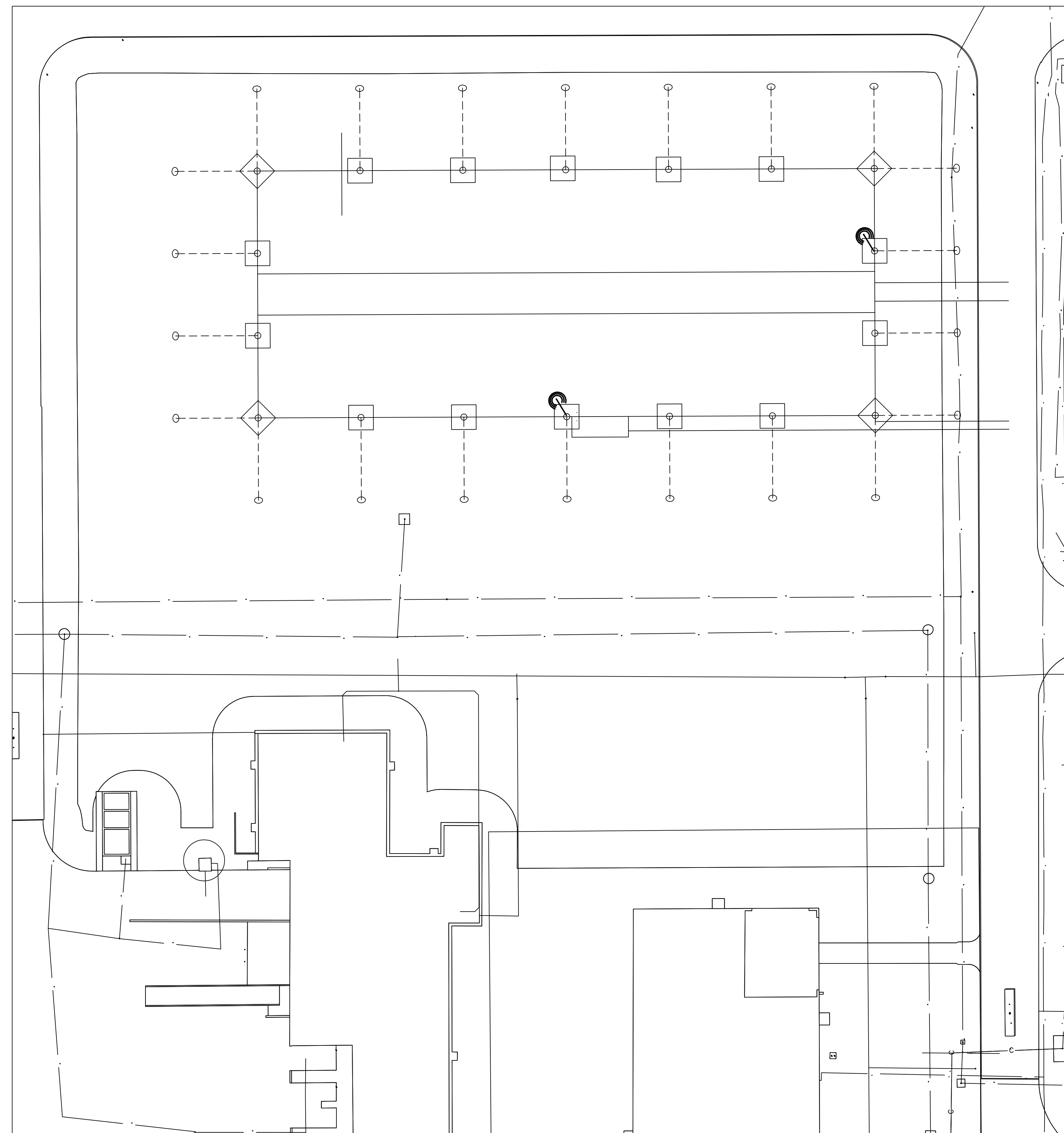
T1.01



DATA KEYED NOTES:

1. PROVIDE (3) DATA DROPS AT POLE MOUNTED AT 3FT, 10FT, AND 15FT ABOVE GRADE. TYPICAL ALL POLES WITH (3) DROPS.
2. PROVIDE 12"x12" BOX IN GROUND FOR ROUTING CABLES FOR WAPS, OWNER INSTALLED EQUIPMENT, AND SENSORS TYPICAL.
3. PROVIDE 1" C DIRECT BURY BETWEEN BOX AND POLE FOR CAT6A. TYPICAL.
4. PROVIDE NEMA 3R BOX.
5. PROVIDE 24"x24" BOX FOR IT CABINET MOUNTED ON CONCRETE PAD. PROVIDE 24 PORT POE INDUSTRIAL SWITCH IN CABINET ON GRADE.
6. PROVIDE (1) 4" C BETWEEN BOXES FOR CAT6A VIA DIRECT BURY.
ADD ALT #2: PROVIDE (1) 6" C IN LIEU OF (1) 4" C.
7. PROVIDE 4" C BETWEEN BOX AND DISCOVERY PARK FOR CORNING FIBER IN UNDERGROUND VIA DIRECT BURY. COORDINATE ROUTING WITH EXISTING UTILITY LINES. TOP OF CONDUIT TO BE MINIMUM OF 24" BELOW GRADE. PROVIDE NYLON OR POLYPROPYLENE PULL STRING MANUFACTURED BY GREENLEE OR EQUAL WITH MIN 240LB TENSILE STRENGTH, ROT AND MILDEW RESISTANT. ADD ALT #2: PROVIDE (1) 6" C IN LIEU OF (1) 4" C.
8. PROVIDE 2" C BETWEEN BOXES. TYPICAL.
9. PROVIDE (2) DATA DROPS AT POLE MOUNTED AT 3FT AND 10FT ABOVE GRADE. TYPICAL.
10. PROVIDE CONDUIT BETWEEN EXTERIOR TRANSITION IN ROOM H146 AND EXISTING CABLE TRAY.
11. ROUTE IN FIBER JACKET IN CABLE TRAY TO IDF ROOM H101.
12. ROUTE CONDUIT TO PLENUM HEIGHT ON EXTERIOR WALL.
13. ADD ALT #1: PROVIDE (2) DATA DROPS AT POLE MOUNTED AT 10FT, 15FT ABOVE GRADE. TYPICAL ALL POLES WITH (2) DROPS.

01 LOW VOLTAGE PATHWAYS
 SCALE: 1" = 30'-0"
 TRUE NORTH



01 WIRELESS ACCESS PLAN
 SCALE: 1"=30'-0"

 TRUE NORTH

WIFI NOTES:

1. WAPS MOUNTED AT 15FT FROM GRADE TO CENTER OF BOX.
2. ROUTE CAT6A CABLES TO WAPS.

Project:
**UNT ADVANCE AIR
 MOBILITY (UAAM)
 TEST CENTER**

Client:
**University of North Texas
 Discovery Campus
 3940 N Elm Street
 Denton, TX 76207**

Consultants / Discipline:



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Keyplan:

Issues/Revisions:

BID SET

No.	Date	Description

Project: UNT UAV Drawn By: LC
 Project Number: M04-22008-00
 Approved: LC Checked By: LG
 By:

Certification Statement:
 TO THE BEST OF THE ENGINEER'S KNOWLEDGE,
 THE PLANS AND SPECIFICATIONS COMPLY WITH
 THE APPLICABLE MINIMUM BUILDING CODES.

Seal and Signature:



Drawing Title:

**WIRELESS ACCESS
 PLAN**

Filename:
 Sheet No.: