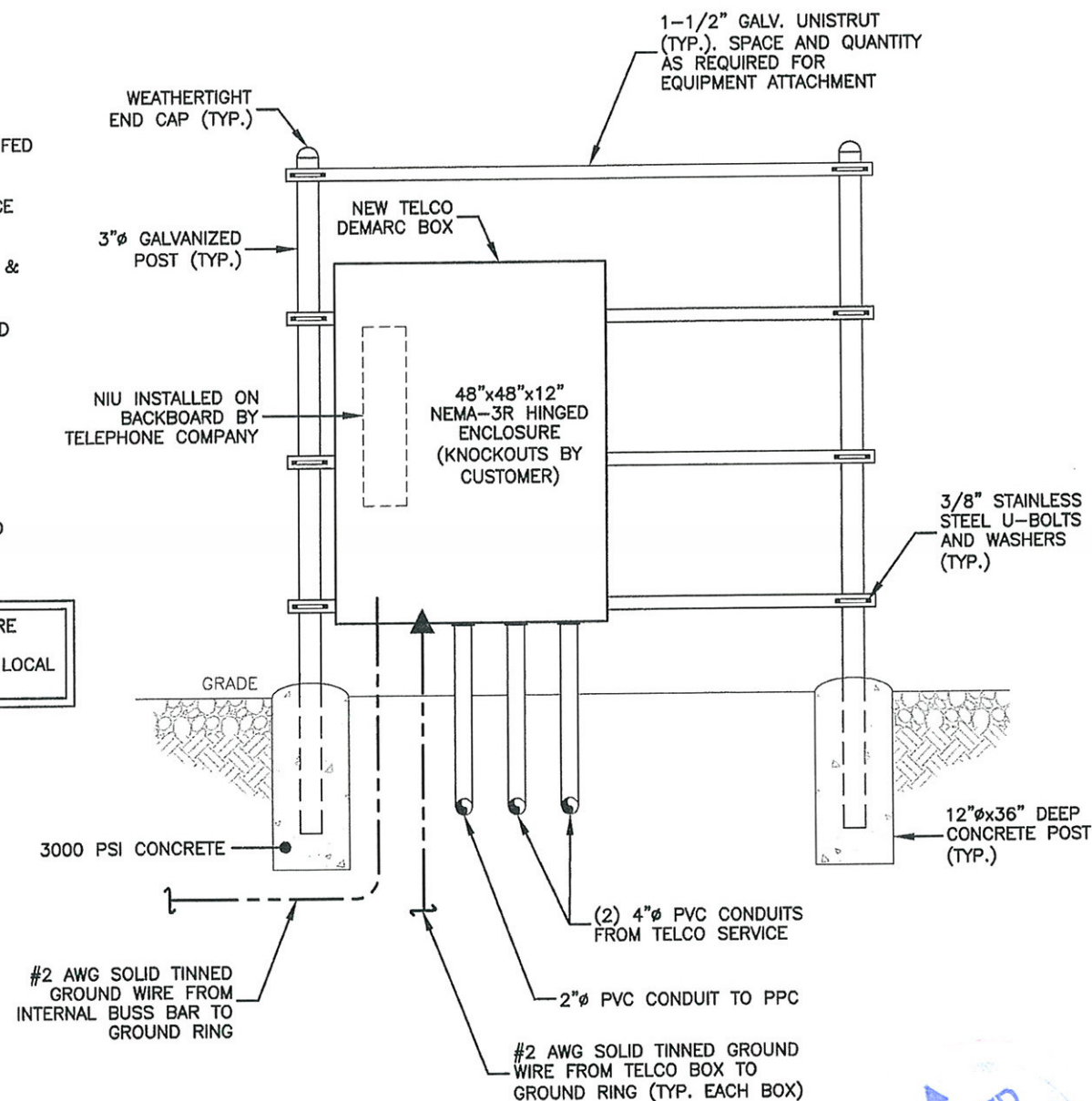


UTILITY STAND (FRONT VIEW)

- KEY**
- | ITEM | DESCRIPTION: |
|------|--|
| 1 | DISTRIBUTION BREAKER. ADD NAMEPLATE TO INDICATE METER LETTER AND CARRIER OF PANEL FED (TYP.) |
| 2 | MODULAR METERING MAIN SERVICE CENTER (SEE NOTE 1). |
| 3 | SINGLE LUG CONNECTORS. DRILL & TAP NEUTRAL BUS (TYP.) |
| 4 | 2/0 GREEN INSULATED STRANDED COPPER WIRE |
| 5 | (2) 4" SCH 40 PVC INCOMING POWER CONDUITS |
| 6 | #2 AWG SOLID TINNED COPPER GROUND WIRE IN 1-1/2" PVC SLEEVE |
| 7 | SERVICE ENTRANCE GROUND ROD PER NEC ARTICLE 250 |

UTILITY METER ENCLOSURE
INSTALLATION TO BE
COORDINATED WITH THE LOCAL
ELECTRICAL PROVIDER



UTILITY STAND (BACK VIEW)

NOTES:

- CONTRACTOR SHALL PROVIDE AND INSTALL MODULAR METERING MAIN SERVICE CENTER, 120/240, 1Ø, 600 AMP, NEMA 3R WITH (6) METER SOCKETS (SQUARE D OR EQUAL). UNUSED METERS AND BREAKERS SHALL BE COVERED WITH LEXAN METER COVER.
- CONTRACTOR SHALL PROVIDE AND INSTALL TELCO DEMARCATION BOX TO INCLUDE 48"x48"x12" NEMA 3R ENCLOSURE WITH BACKPLATE (HOFFMAN OR APPROVED EQUAL), GFI RECEPTACLE (120V, 15A), SURGE SUPPRESSION, AND 2"x12"x1/4" COPPER TIN-PLATED BUSS BAR.

NOTES:

- ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE AND THE LOCAL BUILDING CODES. ALL COMPONENTS SHALL BE U.L. APPROVED.
- IF UTILITY RACK FRAME IS PLACED PARALLEL TO FENCE, LEAVE A MINIMUM OF 3' BETWEEN THE FACE OF THE METER AND THE FENCE.
- CONTRACTOR TO VERIFY THAT METER RACK IS APPROVED BY THE UTILITY COMPANY PRIOR TO PURCHASE.
- ALL CONDUITS FOR TELCO TO BE INSTALLED WITH 200 LB PULLSTRING.
- SEE SITE PLAN SHEETS FOR RACK LOCATION.
- CONTRACTOR TO VERIFY AVAILABLE FAULT CURRENT AND ENSURE THAT MAIN BREAKERS MEET OR EXCEED AVAILABLE FAULT CURRENT.

1 MULTI-TENANT UTILITY STAND
NOT TO SCALE

APPLICANT/OWNER

**VERTICALITY
ROSWELL, LLC**

111 TOWNE LAKE PARKWAY
SUITE 110
WOODSTOCK, GA 30188
770-329-2878

PREPARED BY:

**WALKER
ENGINEERING
INCORPORATED**

8451 DUNWOODY PLACE
SANDY SPRINGS, GA 30350
PHONE: 770-641-7306
FAX: 770-587-2196

REVISIONS

REV	DATE	DESCRIPTION	BY
A	01/23/09	ISSUED FOR REVIEW	MJJ
B	01/29/09	RE-ISSUED FOR REVIEW	MJJ
C	01/30/09	ISSUED FOR CONSTRUCTION	MJJ

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PROJECT LOCATION

VILLAGE FESTIVAL
10930 CROSSVILLE ROAD
ROSWELL, GA 30075
FULTON COUNTY

DRAWN BY: MJJ

CHECKED BY: MJJ

DATE: 01/23/09

JOB NO.: 0901-0002T

SITE NO.: -

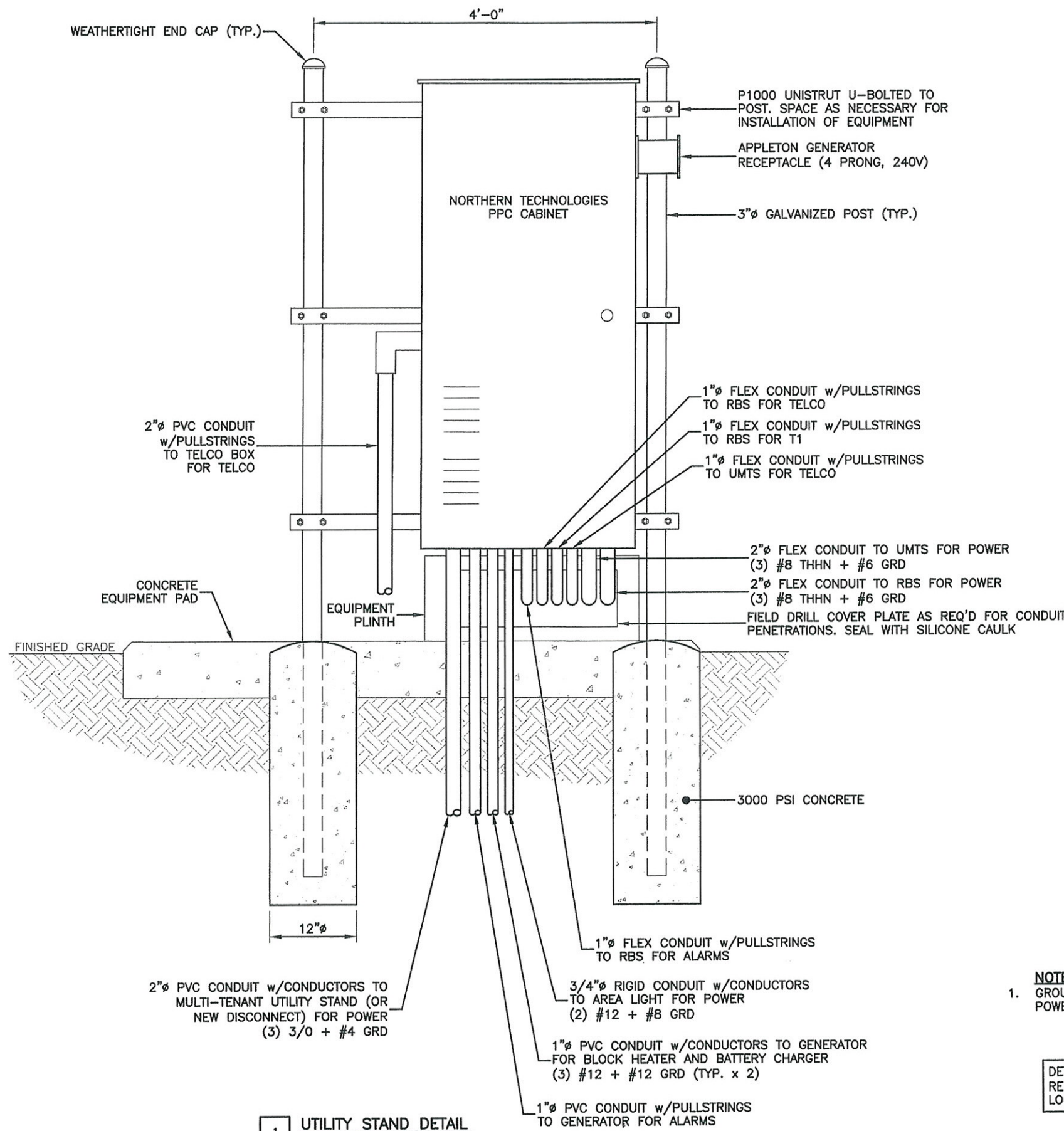
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UTILITY STAND DETAILS

DRAWING NUMBER:

E4.1

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Community
Development
Dept.



NOTE:
1. GROUND ELECTRICAL EQUIPMENT PER LOCAL POWER COMPANY & NEC REQUIREMENTS.

DETAIL SCHEMATIC IN NATURE ONLY.
REFERENCE SITE PLAN(S) FOR EXACT LOCATION AND ORIENTATION.

APPLICANT/OWNER

VERTICALITY ROSWELL, LLC

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2	04/28/09	REVISED DETAIL	MJJ

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FULTON COUNTY

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JOB NO.: 0901-0002T

SITE NO.: -

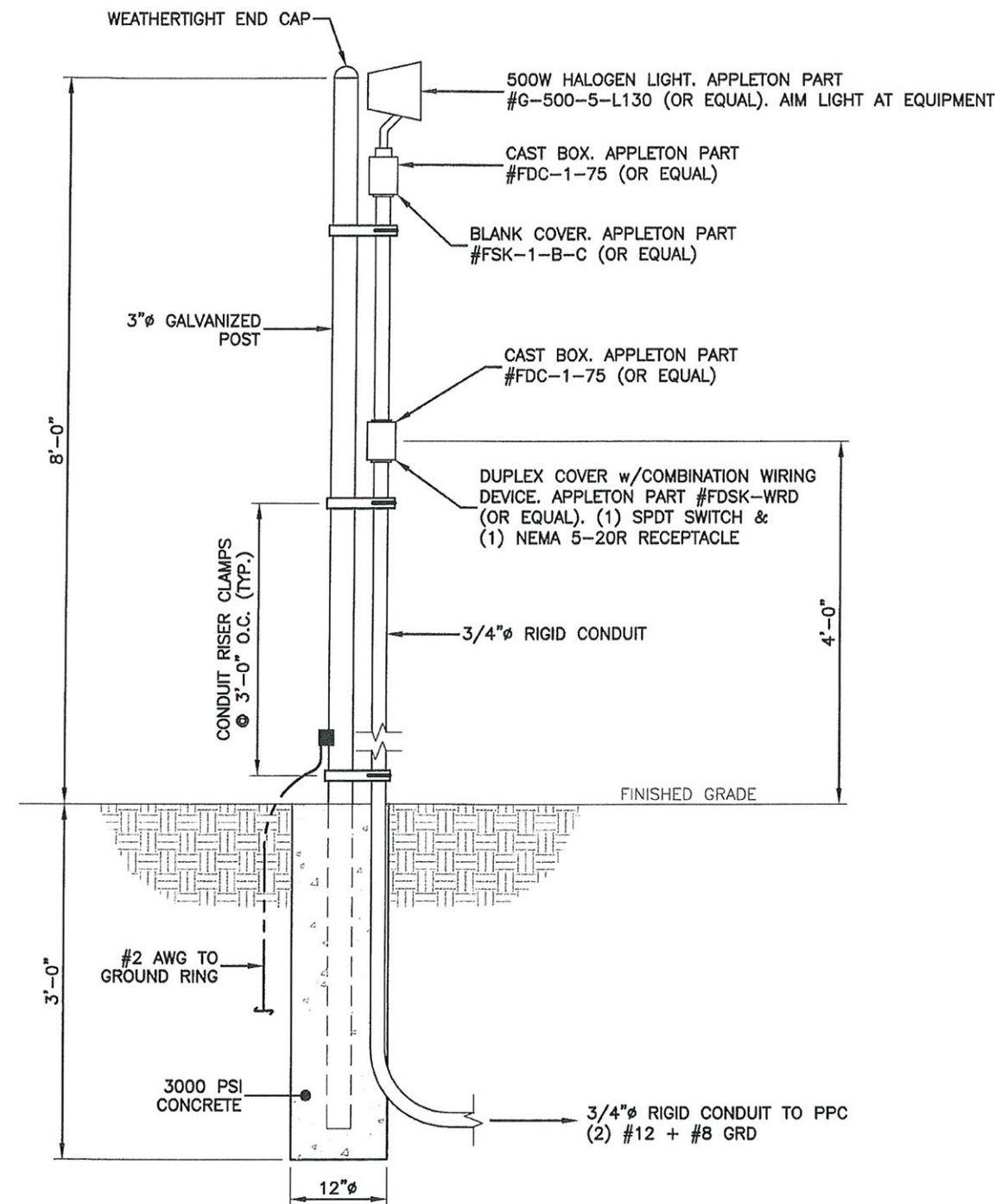
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UTILITY STAND DETAILS

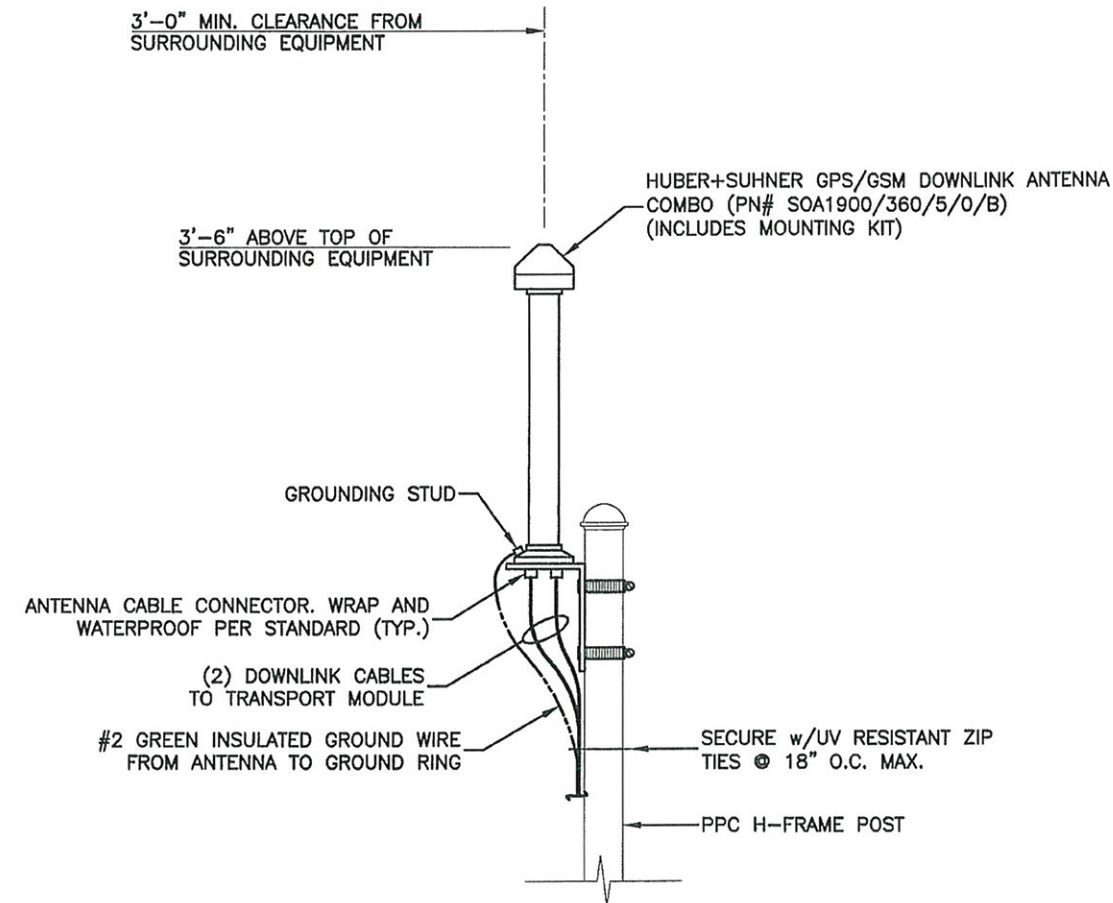
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1 **AREA LIGHT DETAIL**
NOT TO SCALE



2 **GPS/GSM ANTENNA DETAIL**
NOT TO SCALE

INSTALLATION NOTES:

1. GPS/GSM DOWNLINK ANTENNA COMBO PROVIDED BY T-MOBILE AND INSTALLED BY CONTRACTOR.
2. INSTALL ANTENNA PER MANUFACTURER'S SPECIFICATIONS.
3. EXTEND CABLES FROM GPS/GSM DOWNLINK ANTENNA DOWN H-FRAME POST. ROUTE BENEATH ICE BRIDGE w/COAX, THROUGH PLINTH TO RBS AND INTO THE TRANSPORT MODULE. LEAVE 3' LONG PIG TAIL COILED AT ENDS.
4. SECURE ENDS OF CABLES WITH TAPE PROVIDED.
5. LABEL BOTH ENDS OF EACH CABLE USED.
6. LABEL GSM CABLE WITH (1) YELLOW BAND AND GPS CABLE WITH (2) YELLOW BANDS.
7. ENSURE THAT CABLES ARE ROUTED AND WEATHERPROOFED IN A PROFESSIONAL MANNER AND ARE ADEQUATELY SUPPORTED.
8. ALL WEATHERPROOFING AND GROUNDING SHALL BE DONE ACCORDING TO ESTABLISHED T-MOBILE SPECIFICATIONS AND PRACTICES.
9. DRAWING IS SCHEMATIC IN NATURE ONLY. COORDINATE EXACT LOCATION OF ANTENNA WITH CONSTRUCTION MANAGER.
10. GROUNDING MATERIALS TO BE PROVIDED BY CONTRACTOR.
11. GROUND USING #2 GREEN INSULATED GROUND WIRE.

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APPLICANT/OWNER

VERTICALITY ROSWELL, LLC

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SUITE 110
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PREPARED BY:

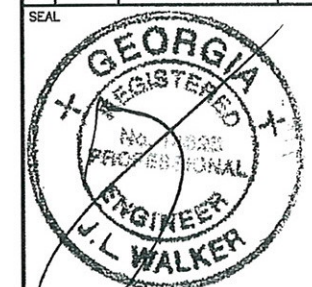
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O	01/30/09	ISSUED FOR CONSTRUCTION	MJJ
1	04/29/09	REVISED AREA LIGHT DETAIL	MJJ

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ROSWELL, GA 30075
FULTON COUNTY

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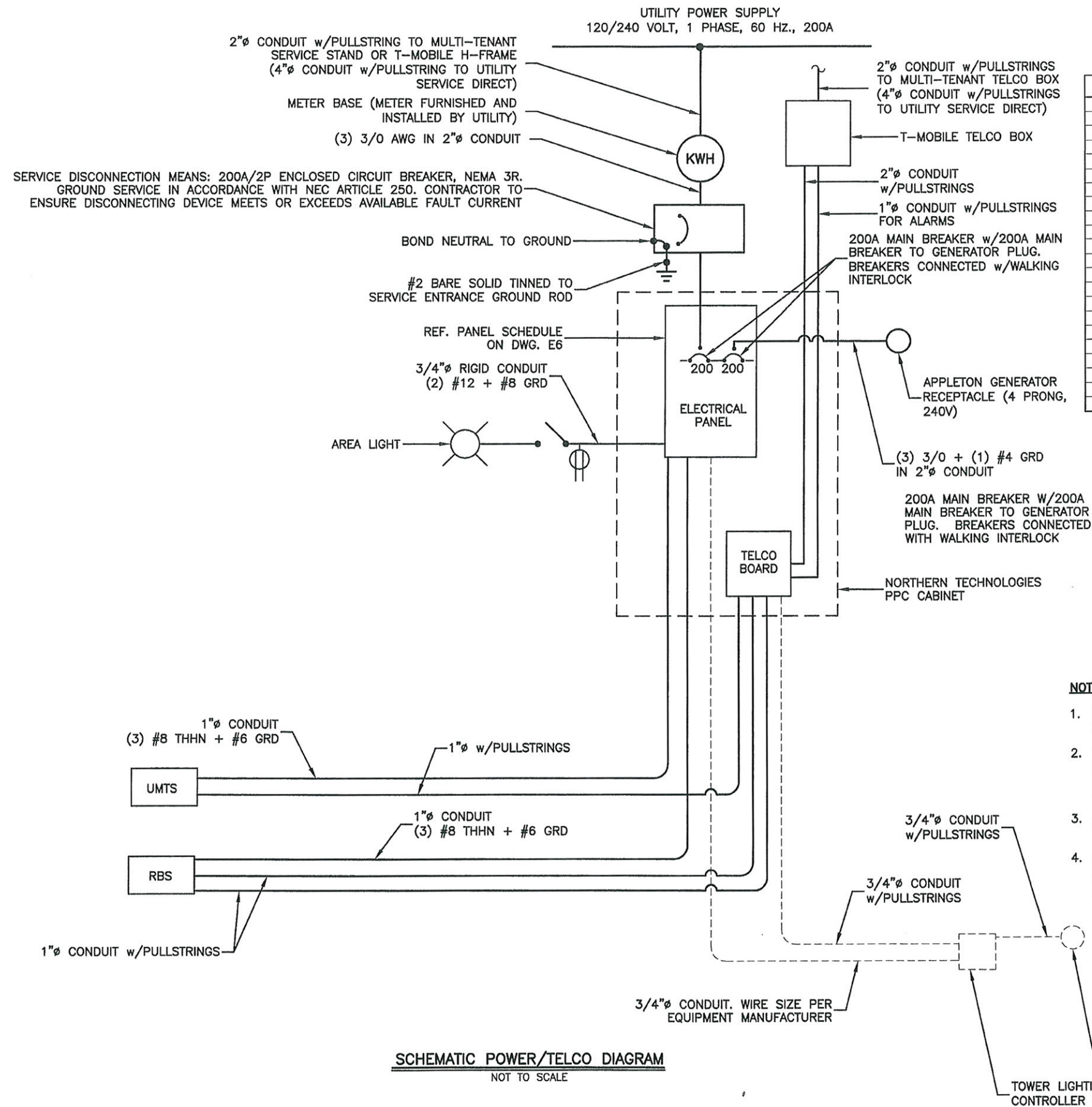
SITE NO.: -

DRAWING DESCRIPTION:

ELECTRICAL DETAILS

DRAWING NUMBER:

E4.3



SCHEMATIC POWER/TELCO DIAGRAM
NOT TO SCALE

ABBREVIATIONS	
A	AMPERE(S)
AC	ALTERNATING CURRENT
AIC	AMPERE INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAGE
C	CONDUIT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
Hz	HERTZ
JB	JUNCTION BOX
KWH	KILOWATT HOUR
LP	LIQUID PROPANE
MGB	MASTER GROUND BAR
MLO	MAIN LUG ONLY
NEUT	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
P	POLE(S) OR PHASE
TMA	TOWER MOUNTED AMPLIFIER
UL	UNDERWRITERS LABORATORIES
RBS	RADIO BASE STATION
V	VOLT(S)
W	WATT(S)
WP	WEATHERPROOF

LEGEND	
SYMBOL	DESCRIPTION
—	CONDUIT RACEWAY
⏏	GROUND

NOTES:

- REF. DWG. E6 FOR T-MOBILE STANDARD ELECTRICAL SPECIFICATIONS. REF. DWG. E3 FOR UTILITY NOTES.
- THE CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT WITH POWER COMPANY AND ENSURE ALL ELECTRICAL EQUIPMENT MEETS OR EXCEEDS AVAILABLE FAULT CURRENT.
- ALL CONDUIT RACEWAYS SHALL BE INSTALLED PER UTILITY TRENCH DETAIL SHOWN ON DWG. C5.1.
- ONE-LINE DIAGRAM SCHEMATIC IN NATURE ONLY. REF. ELECTRICAL SITE PLAN(S) FOR ACTUAL LOCATION OF EQUIPMENT AND UTILITIES. COORDINATE UTILITY SERVICE WITH UTILITY COMPANIES AND CONSTRUCTION MANAGER.



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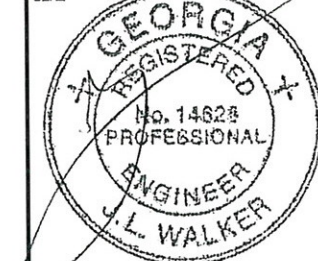
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O	01/30/09	ISSUED FOR CONSTRUCTION	MJJ
1	03/31/09	REMOVED GENERATOR	MJJ

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PROJECT LOCATION

VILLAGE FESTIVAL
10930 CROSSVILLE ROAD
ROSWELL, GA 30075
FULTON COUNTY

DRAWN BY: MJJ

CHECKED BY: MJJ

DATE: 01/23/09

JOB NO.: 0901-0002T

SITE NO.: —

DRAWING DESCRIPTION:

ONE-LINE DIAGRAM

DRAWING NUMBER:

E5

PANEL MOUNTING 200 AMP MAIN BREAKER 10 KAIC PANEL PNL 120 VOLT 240, 1 PHASE 3 WIRE 200 AMP BUS

CKT NO.	DESCRIPTION	VA		DEVICE		BKR		PHASE	BKR	DEVICE		VA		CKT NO.	
		A	B	MISC	RECP	LTG	TRIP			POLE	A	B			
1	TVSS SURGE PROTECTOR	0		●				60	2	1	15	●	400	INSIDE & OUTSIDE GFI RECEPT.	2
3			0							2	50		4800	RBS CABINET	4
5	COOLING FAN	200		●				15	1				4800		6
7	OUTSIDE LIGHT		400			●		20	2				4800	UMTS CABINET	8
9	BLANK												4800		10
11	BLANK									2	50			FUTURE RBS CABINET	12
13	BLANK														14
15	BLANK													BLANK	16
17	BLANK													BLANK	18
19	BLANK													BLANK	20
21	BLANK													BLANK	22
23	BLANK													BLANK	24
25	BLANK													BLANK	26
27	BLANK													BLANK	28
29	BLANK													BLANK	30

CONNECTED LOAD (VA) 200 400 10000 9600

PHASE A = 10200 TOTAL CONNECTED LOAD = 20.20 KVA = 84.17 AMPS

PHASE B = 10000

1 PPC PANEL SCHEDULE
NOT TO SCALE



INFORMATION SHOWN
PROVIDED BY T-MOBILE

ELECTRICAL SPECIFICATIONS (CONTRACTOR)

- SCOPE: PROVIDE LABOR, MATERIALS, AND EQUIPMENT, ETC. REQUIRED TO COMPLETE THE INSTALLATION SHOWN ON THE DRAWINGS.
- CODES AND STANDARDS: INSTALLATION SHALL COMPLY WITH APPLICABLE LAWS AND ORDINANCES, UTILITY COMPANY REGULATIONS AND APPLICABLE REQUIREMENTS OF LATEST EDITIONS OF:
 - NFC - NATIONAL FIRE CODES
 - UL - UNDERWRITERS LABORATORIES
 - NEC - NATIONAL ELECTRICAL CODE
 - NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
 - OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
 - SBC - STANDARD BUILDING CODE
- PERMITS: OBTAIN AND PAY FOR REQUIRED PERMITS, LICENSES, FEES, INSPECTIONS, ETC.
- COORDINATION: COORDINATE WORK WITH OTHER TRADES.
- SUBMITTALS: SUBMIT BROCHURES FOR APPROVAL ON SERVICE DISCONNECTION MEANS AND OTHER MAJOR SYSTEM COMPONENTS.
- EXISTING SERVICES: DO NO INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
- EQUIPMENT: CONNECT ELECTRICALLY OPERATED EQUIPMENT.
- RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DOCUMENTS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.
- IDENTIFICATION: IDENTIFY SERVICE DISCONNECTION MEANS WITH PERMANENT NAMEPLATE.
- GUARANTEE/WARRANTY: GUARANTEE INSTALLATION TO BE FREE OF DEFECTS, SHORTS, GROUND, ETC. FOR A PERIOD OF ONE YEAR. FURNISH WARRANTY SO THE DEFECTIVE MATERIAL AND/OR WORKMANSHIP WILL BE REPAIRED/REPLACED IMMEDIATELY UPON NOTIFICATION AT NO COST TO THE OWNER FOR PERIOD OF WARRANTY.
- CUTTING AND PATCHING: PROVIDE CUTTING REQUIRED TO DO THE WORK. DO NOT CUT MAJOR STRUCTURAL ELEMENTS WITHOUT APPROVAL. PATCHING SHALL BE OF QUALITY EQUAL TO AND OF MATCHING APPEARANCE OF EXISTING CONSTRUCTION.
- DITCHING AND BACKFILL: PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES.
- RACEWAYS: UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC CONDUIT (MEET NEMA TC2 - 1990). EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL CONDUIT. UNDERGROUND PVC CONDUIT SHALL TRANSITION TO RIGID GALVANIZED STEEL CONDUIT BEFORE RISING ABOVE GRADE. PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULLSTRINGS - 200 LB. TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE MINIMUM OF 24" RADIUS. GRS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT.
- SUPPORTS: AS REQUIRED BY THE NEC.
- CONDUCTORS: USE 98% CONDUCTIVITY COPPER WITH TYPE XHHW-2 INSULATION, 600 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING 8 AWG. USE STRANDED CONDUCTORS FOR WIRE ABOVE 8 AWG.
- CONNECTORS FOR POWER CONDUCTORS: USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR 8 AWG AND LARGER.
- SERVICE: 240/120V, SINGLE PHASE, 3 WIRE CONNECTION AVAILABLE FROM UTILITY COMPANY. COORDINATE AND PAY ALL FEES.
- TELEPHONE SERVICE: PROVIDE EMPTY CONDUITS WITH PULLSTRINGS AS INDICATED ON DRAWINGS.
- PROVIDE A GROUND WIRE SIZED PER NEC IN ALL CIRCUITS OVER 20 AMPS, AND IN ALL CIRCUIT RUNS IN SEAL TIGHT CONDUITS.
- A.I.C. RATING TO MEET OR EXCEED ACTUAL AVAILABLE FAULT CURRENT.

APPLICANT/OWNER

VERTICALITY ROSWELL, LLC

111 TOWNE LAKE PARKWAY
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770-329-2878

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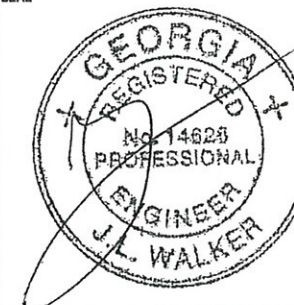
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DRAWING DESCRIPTION:

ELECTRICAL DETAILS
AND
SPECIFICATIONS

DRAWING NUMBER:

E6