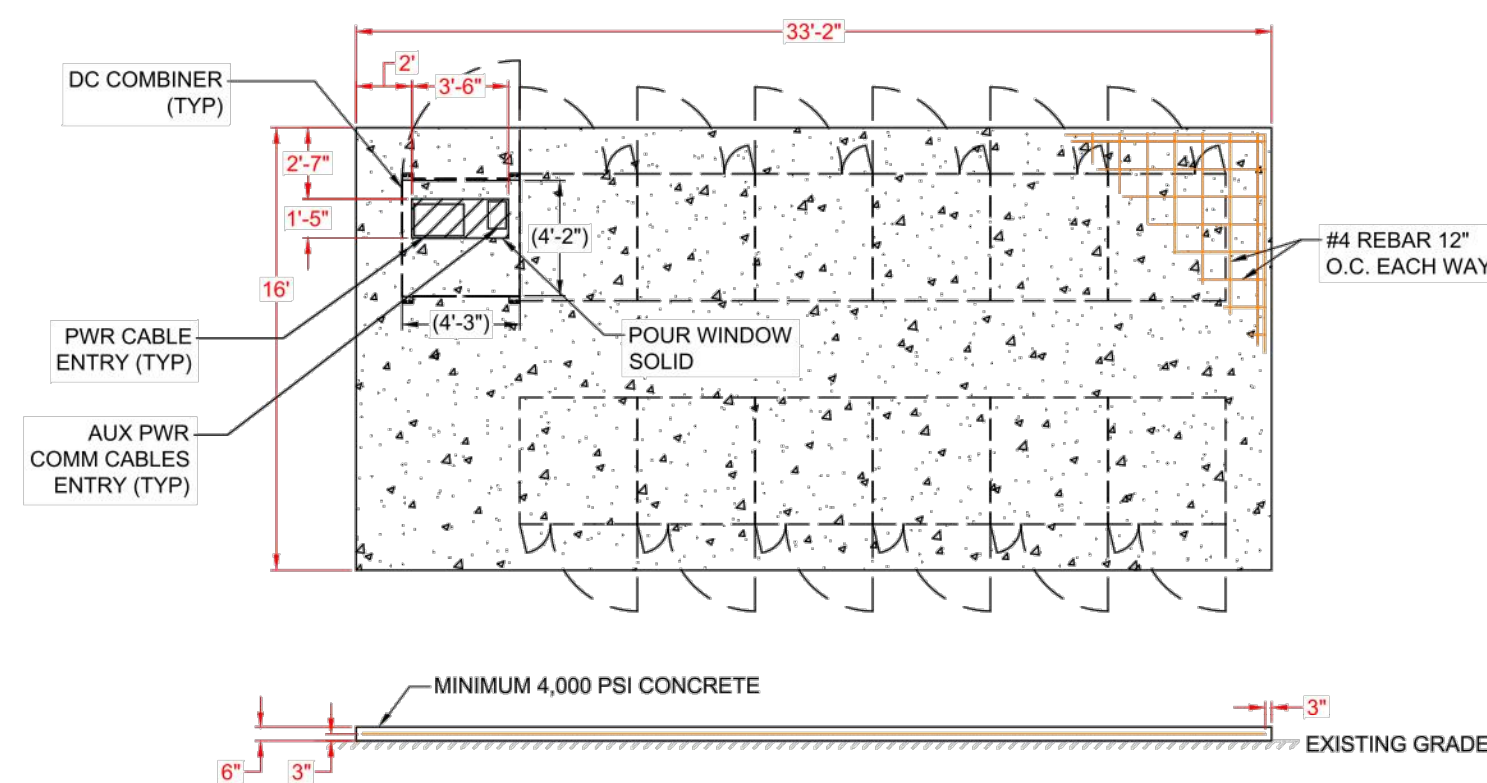


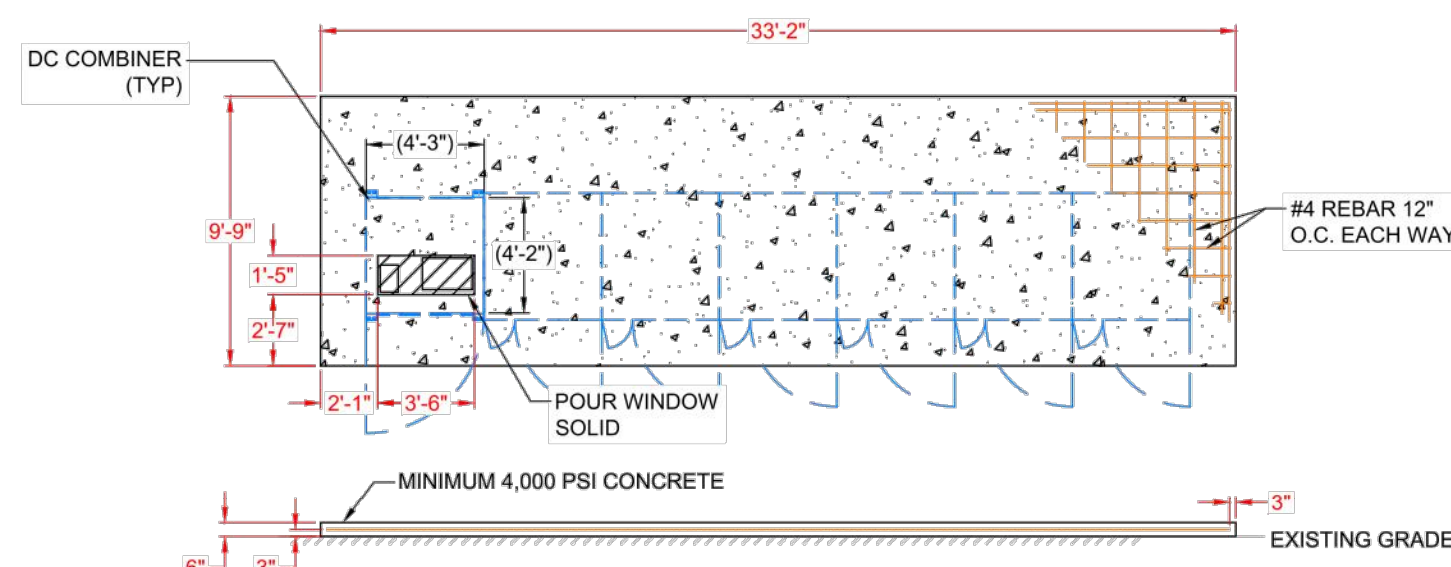
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BESS PAD #1

SCALE: 1" = 6' - 0"

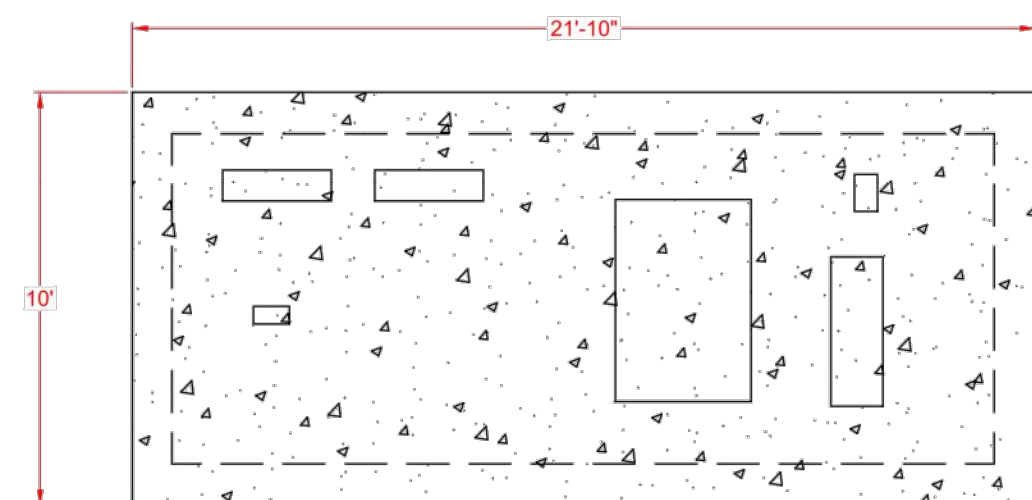
1.0
E7



BESS PAD #2 (FUTURE EQUIPMENT)

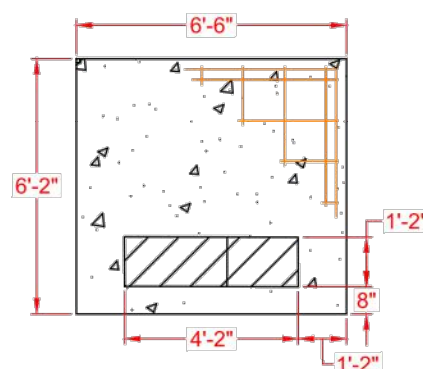
SCALE: 1" = 6' - 0"

1.1
E7



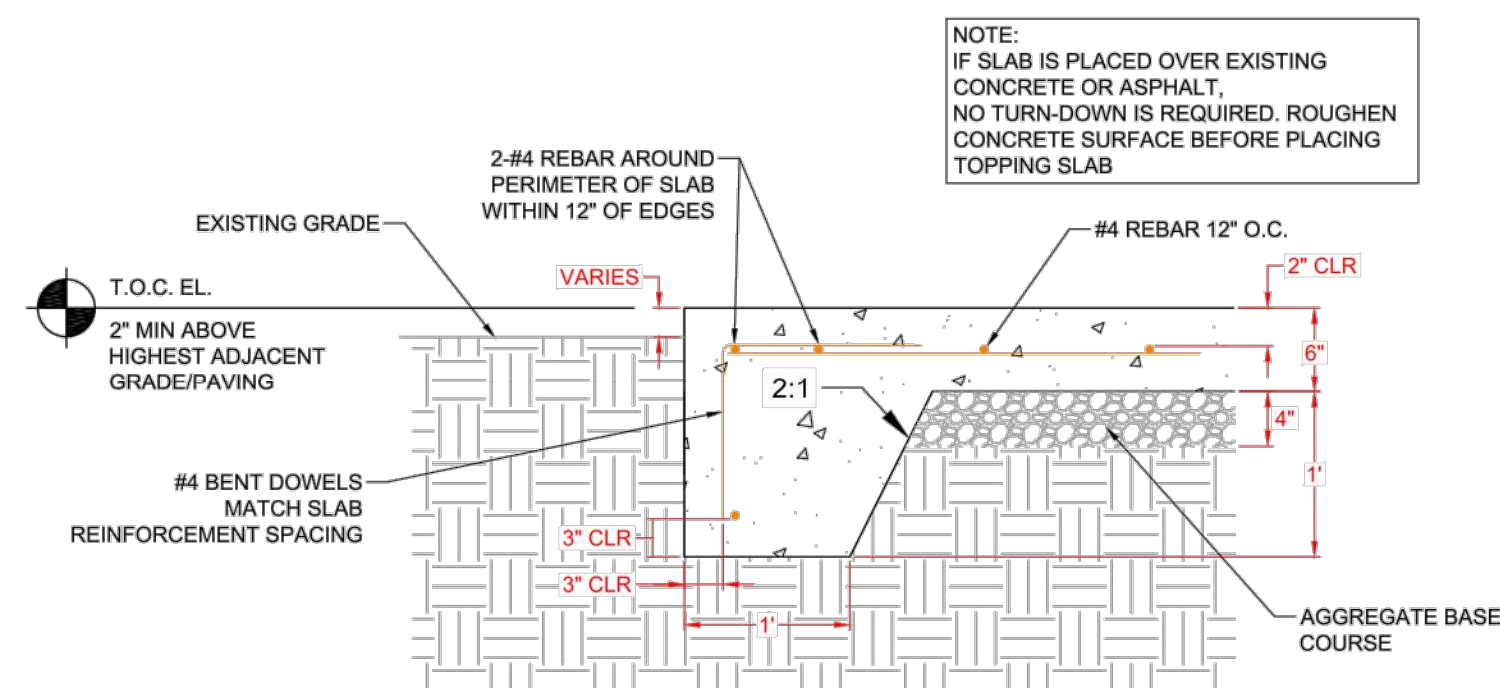
INVERTER PAD (TYP OF 3)

SCALE: 1" = 4' - 0"

$$\frac{2}{E7}$$


AUXILIARY POWER
TRANSFORMER PAD

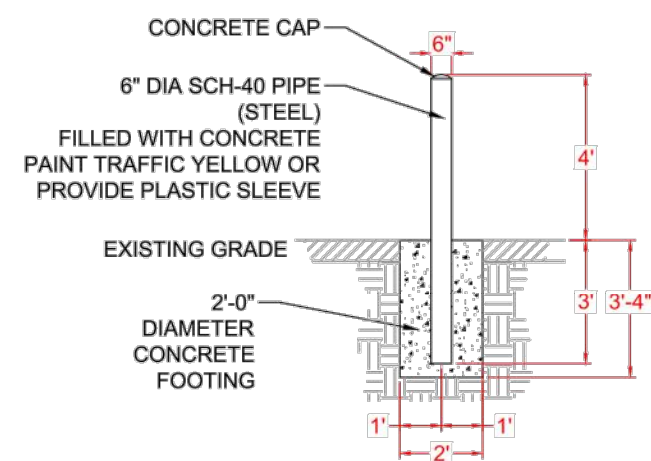
3
E7



PAD TURNDOWN DETAIL

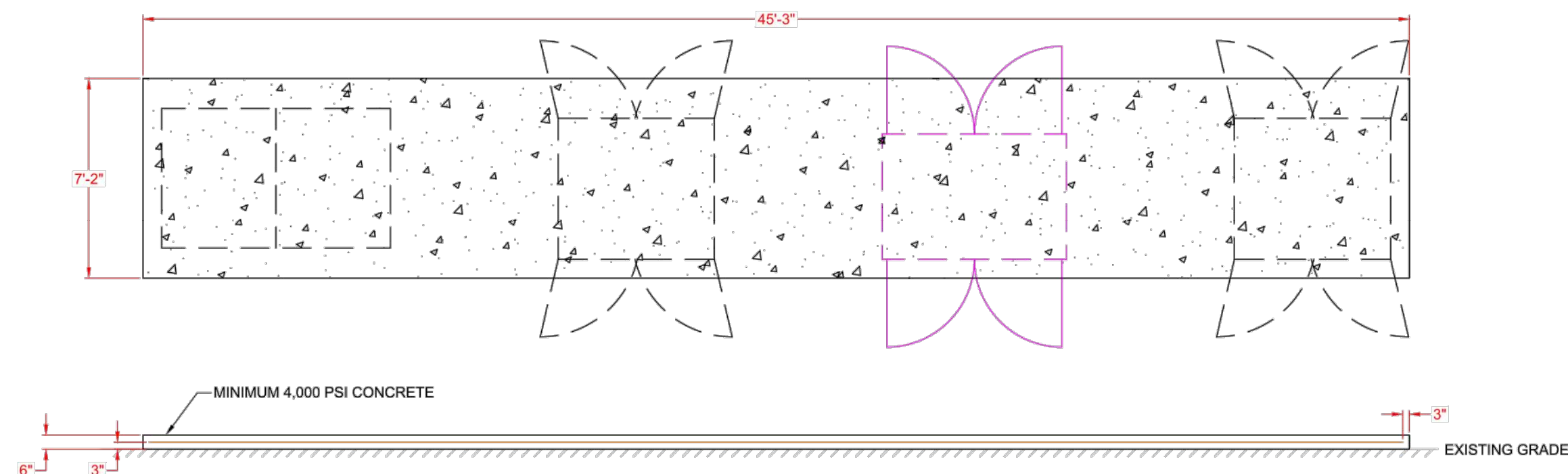
SCALE: 1" = 1' - 0"

4
E7



BOLLARD DETAIL

SCALE: 1" = 4' - 0"

$$\frac{5}{E7}$$


MV BESS PAD

SCALE: 1" = 4' - 0"

6
E7

- | GENERAL NOTES | |
|---------------|--|
| 1. | PAD LAYOUT DIMENSIONS ARE MINIMUMS AND CAN BE INCREASED BASED ON SITE CONDITIONS OR CONTRACTOR PREFERENCE |
| 2. | CONTRACTOR CAN CHOOSE TO JOIN MULTIPLE PADS TOGETHER. |
| 3. | ALL PADS TO BE MINIMUM 6 INCHES ABOVE FINISHED GRADE. PADS LOCATED WITHIN FLOOD ZONES, EXCLUDING ZONE X AND ZONE X SHADED, TO BE MINIMUM 18 INCHES ABOVE BASE FLOOD ELEVATION. |
| 4. | ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% |
| 5. | MAXIMUM ALLOWABLE SOIL BEARING PRESSURE: 1500PSF |



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PERMITTING



SYSTEM SIZE:	10MW/10MWhr
UTILITY VOLTAGE:	24.9 kV
BUILDING NAME:	PARK 121 BLDG 4
PROJECT SITE:	360 N FREEPORT PKWY CORPELL, TX 75019-3801

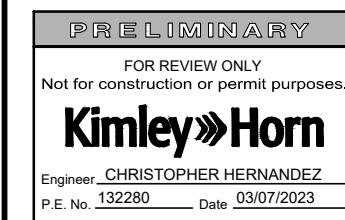
DESIGNED BY: RAVENVOLT	REVIEWED BY: ERH
DRAWN BY: JBM	ASSISTED BY: JMH
PROJECT MANAGER: DYLAN JACKSON	
ELECTRIC UTILITY: ONCOR	
AHJ: CITY OF COPPELL	

[illegible]

SHEET TITLE
PAD DETAILS
DRAWING NUMBER
E7
THIS DRAWING IS 24" X 36" AT FULL SIZE
SITE ID: DAL 05406

[illegible]

Kimley»»Horn



KHA PROJECT 068932900	DATE MARCH 2023	SCALE: AS SHOWN	DESIGNED BY: CDH	DRAWN BY: AC	CHECKED BY: CDH
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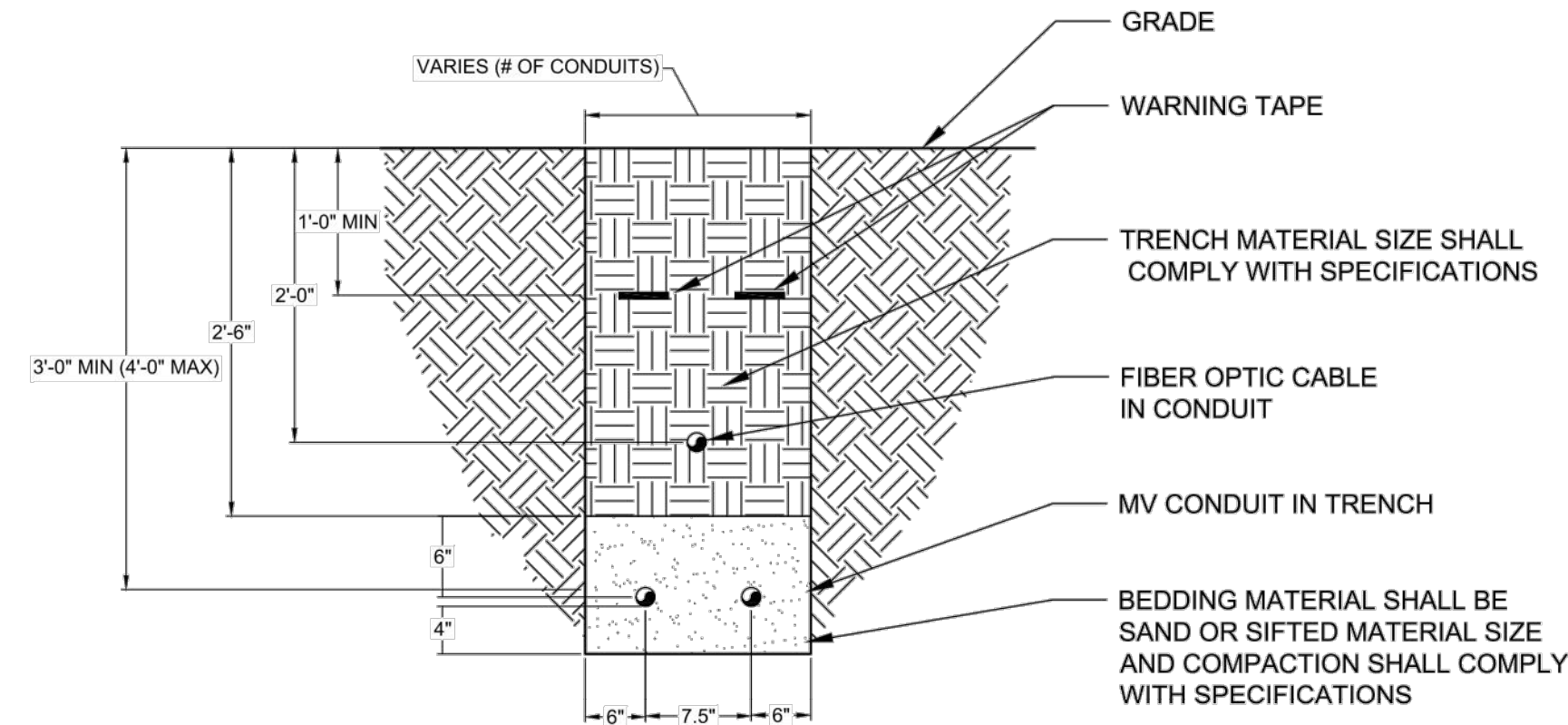
CONSTRUCTION DETAILS

**RAVENVOLT BESS
COPPELL**
CITY OF COPPELL
DALLAS COUNTY, TEXAS

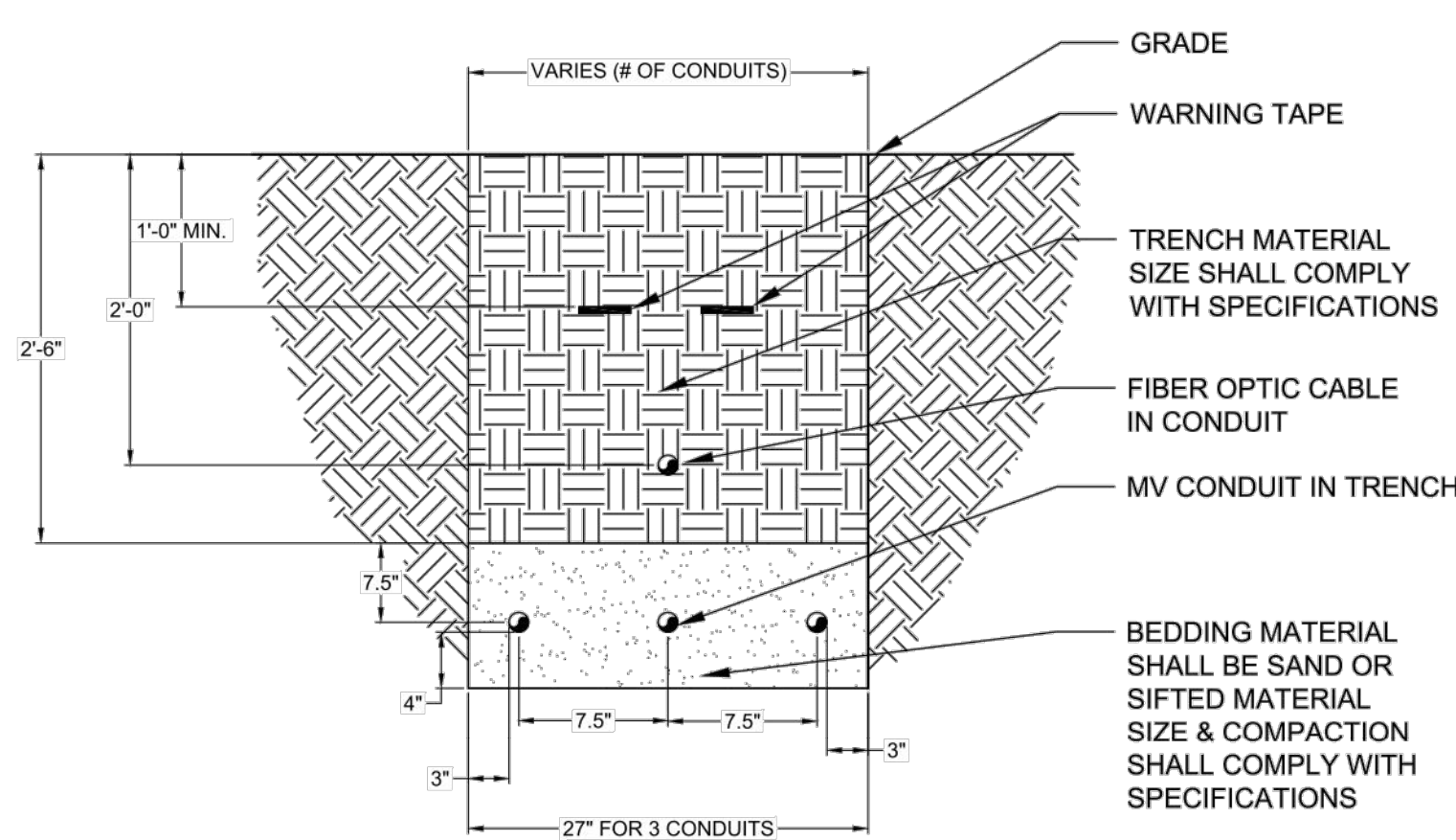
SHEET NUMBER
C-06

Plotted By:Castillo, Armando Date:March 07, 2023 08:56:16pm File Path:k:\DAL_Civil\068932900-RavenVolt BESS Coppel\Doc\PlanSheets\c-Standard Details.dwg This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

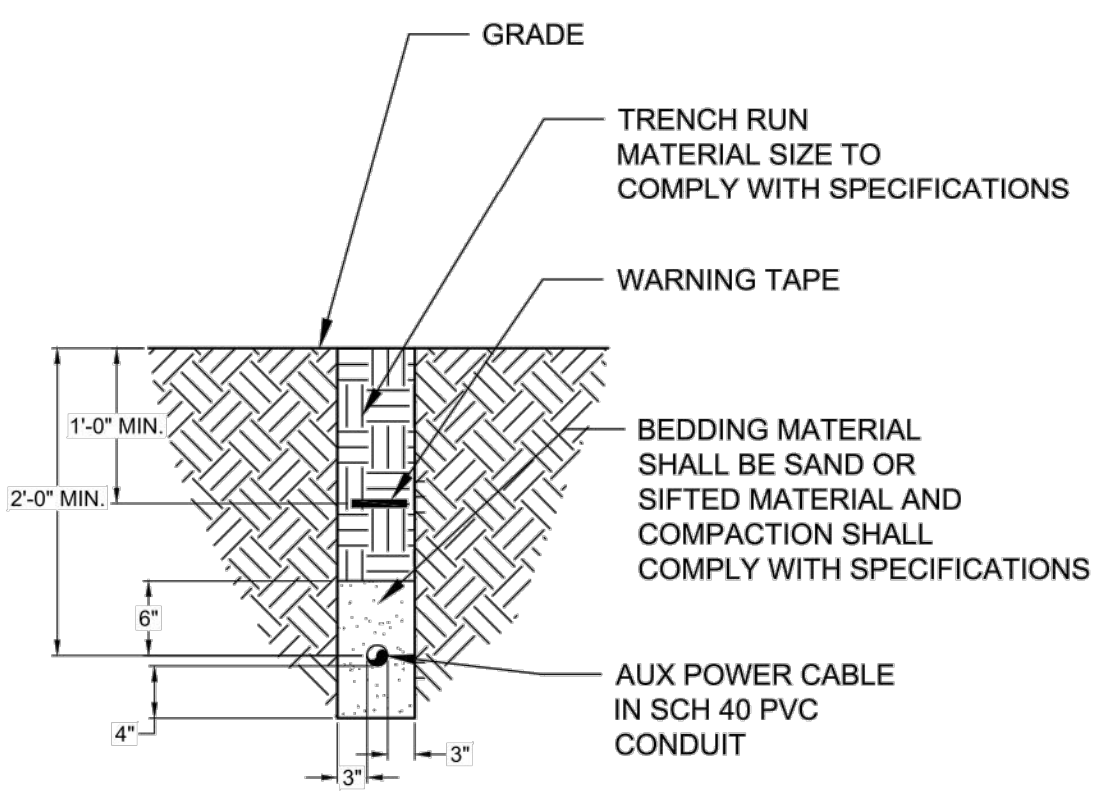
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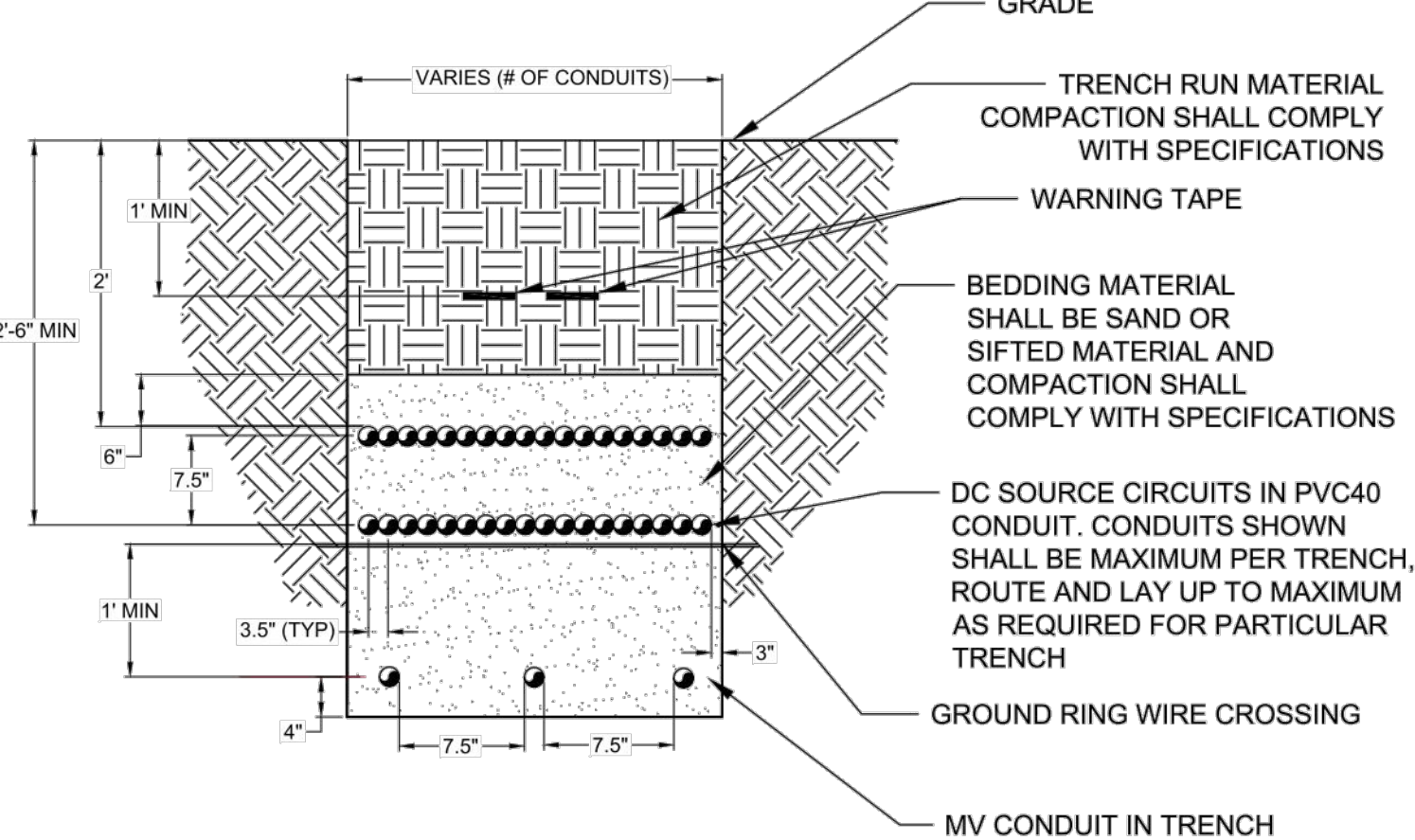
RANDOM LAY MV/FO CABLES (DUAL CIRCUIT) 1 E9
SCALE: NTS



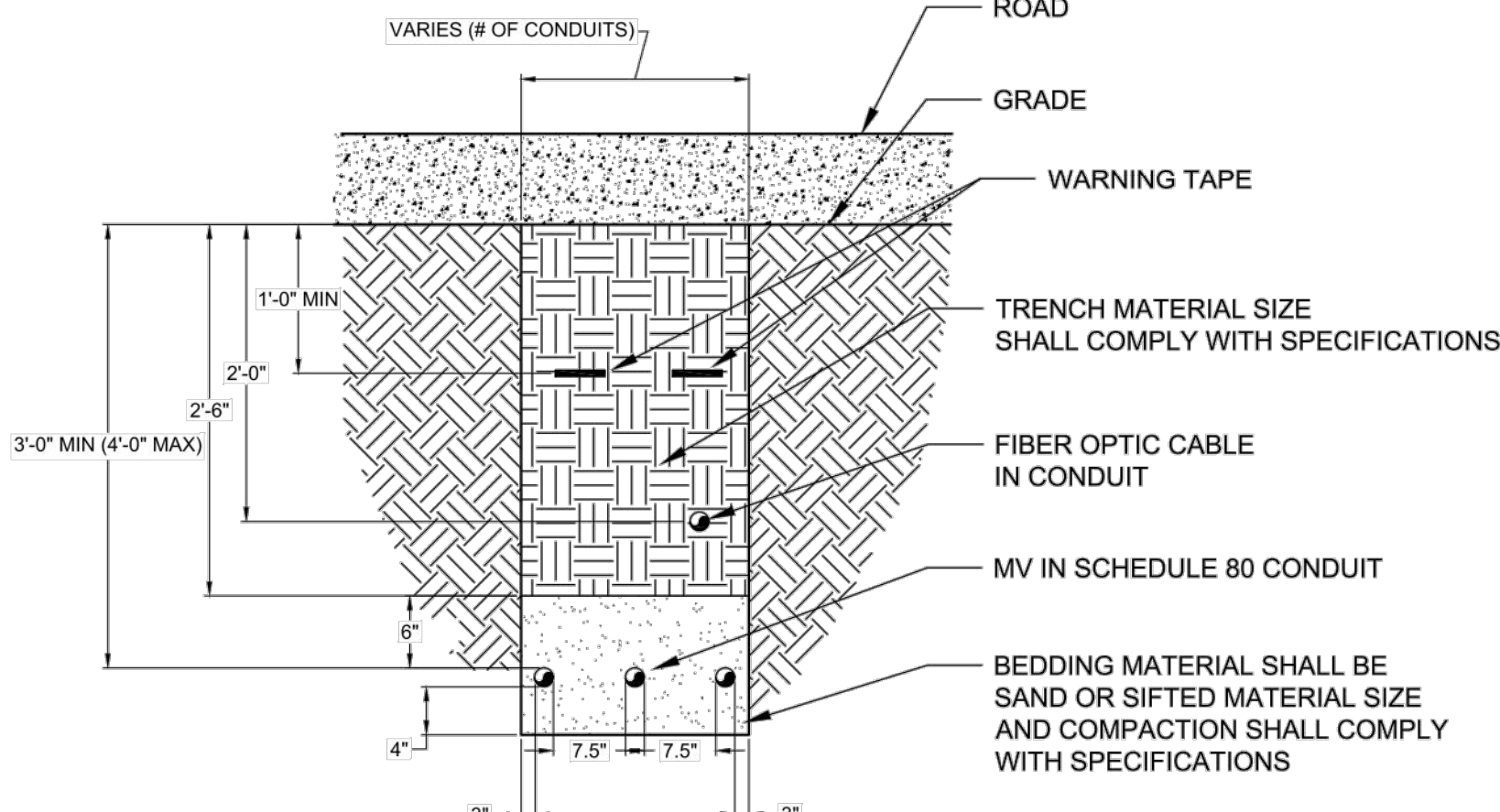
RANDOM LAY MV/FO CABLES (TRIPLE CIRCUIT) 2 E9
SCALE: NTS



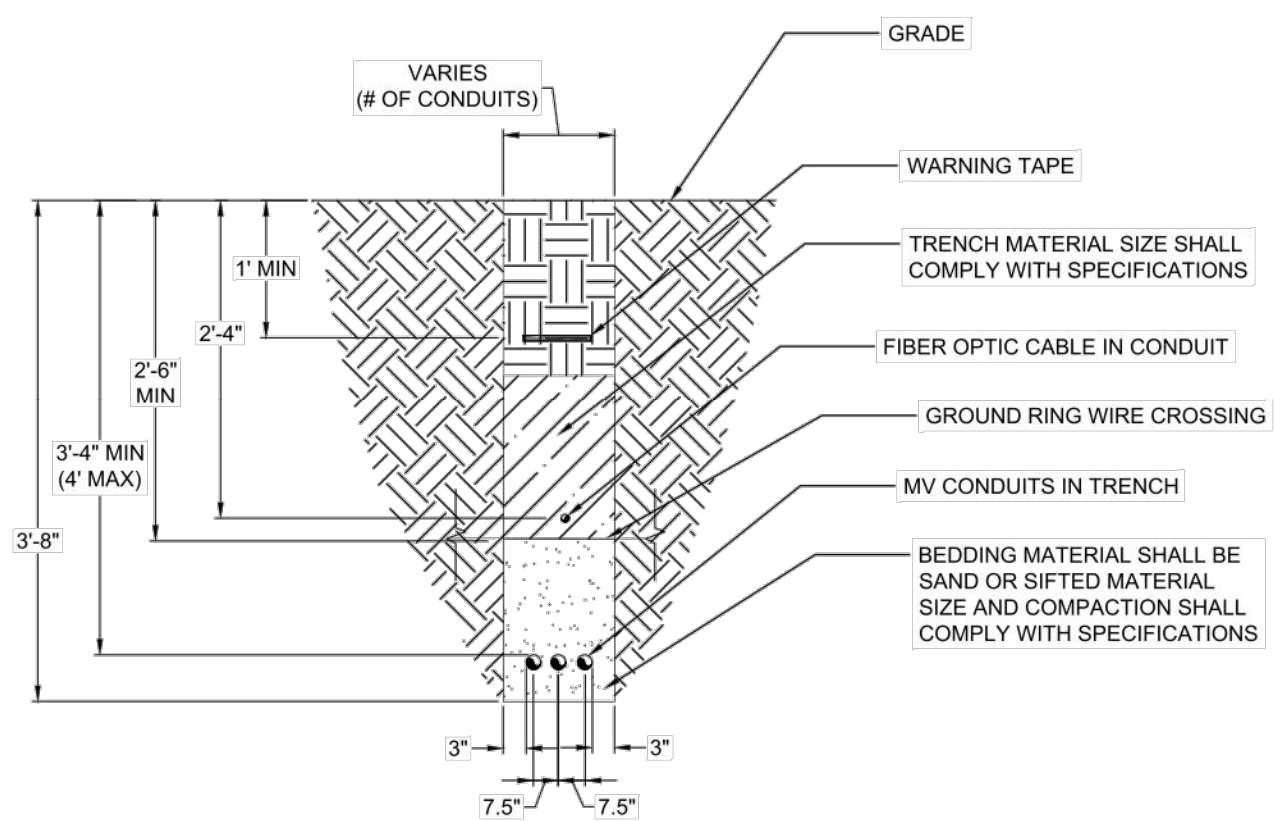
AUX POWER CABLE TRENCH 3 E9
SCALE: NTS



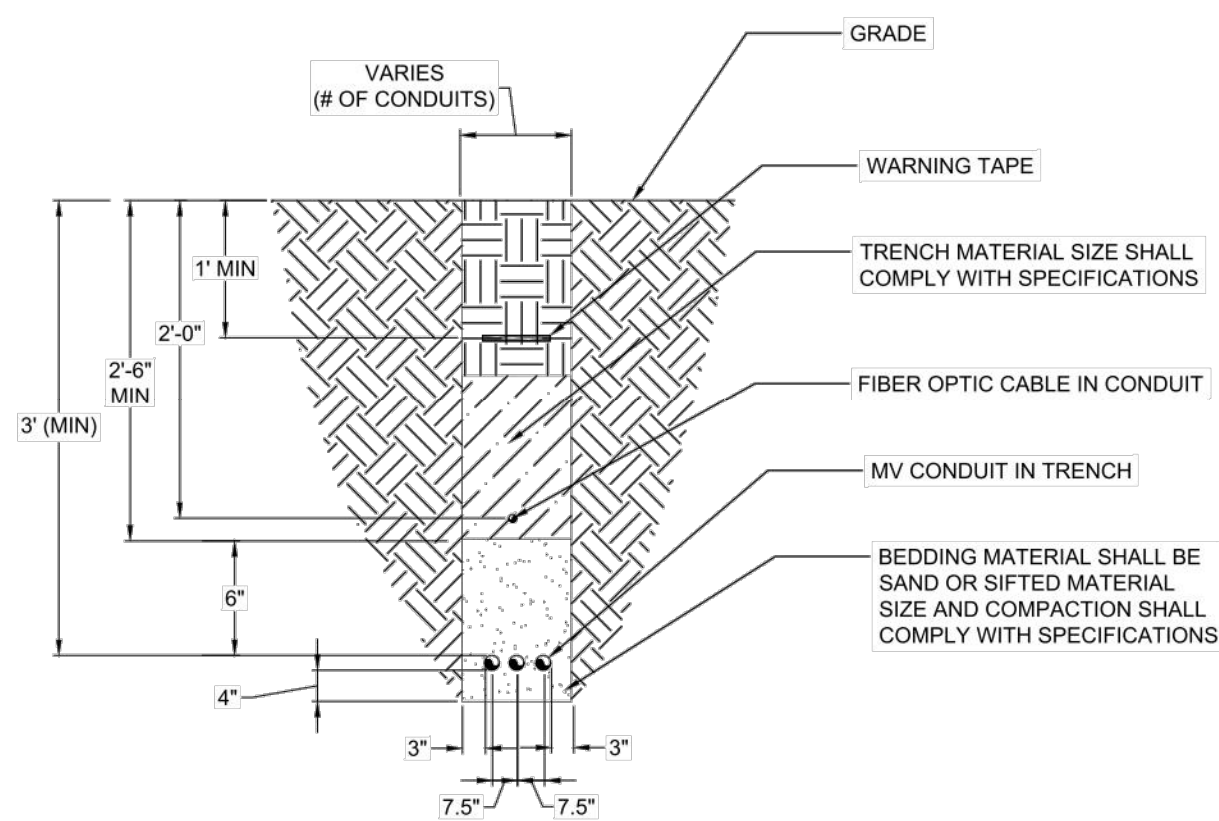
MV AND DC CIRCUIT TRENCH 4 E9
SCALE: NTS



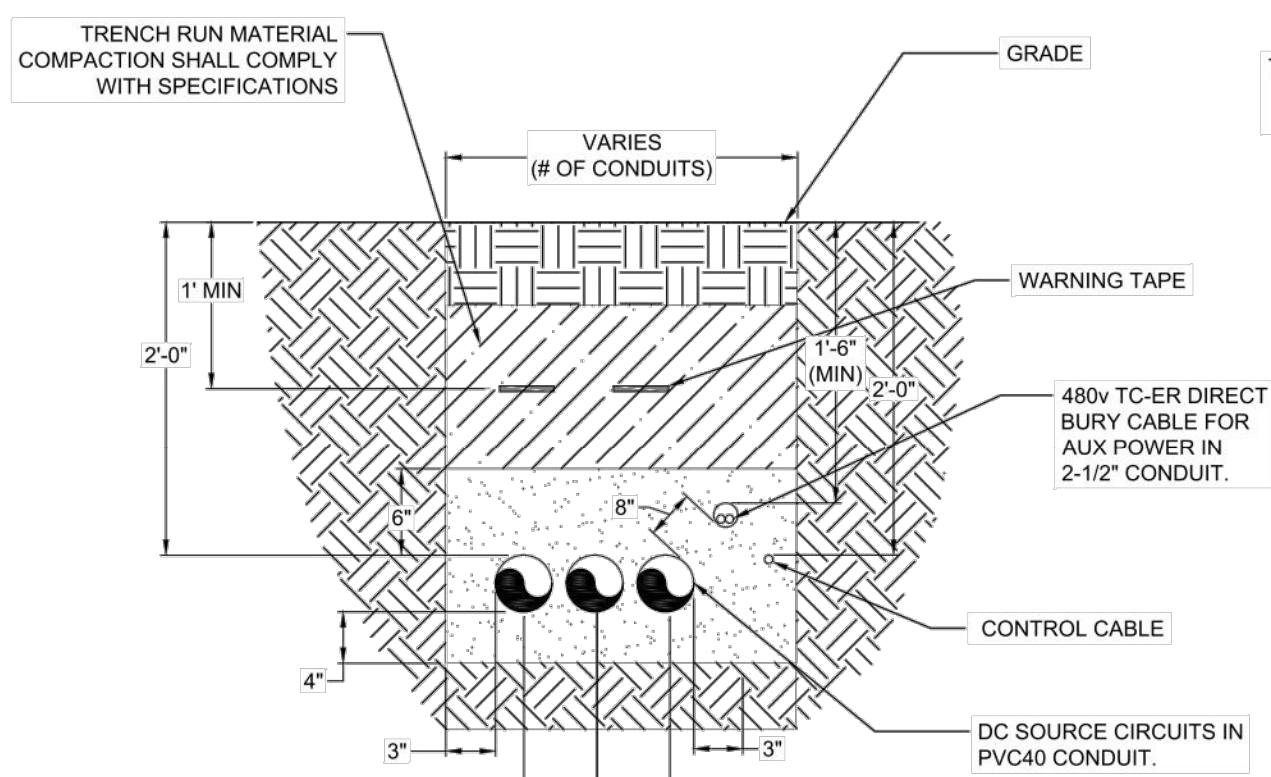
ROAD CROSSING MV/FO CABLES (SINGLE CIRCUIT) 5 E9
SCALE: NTS



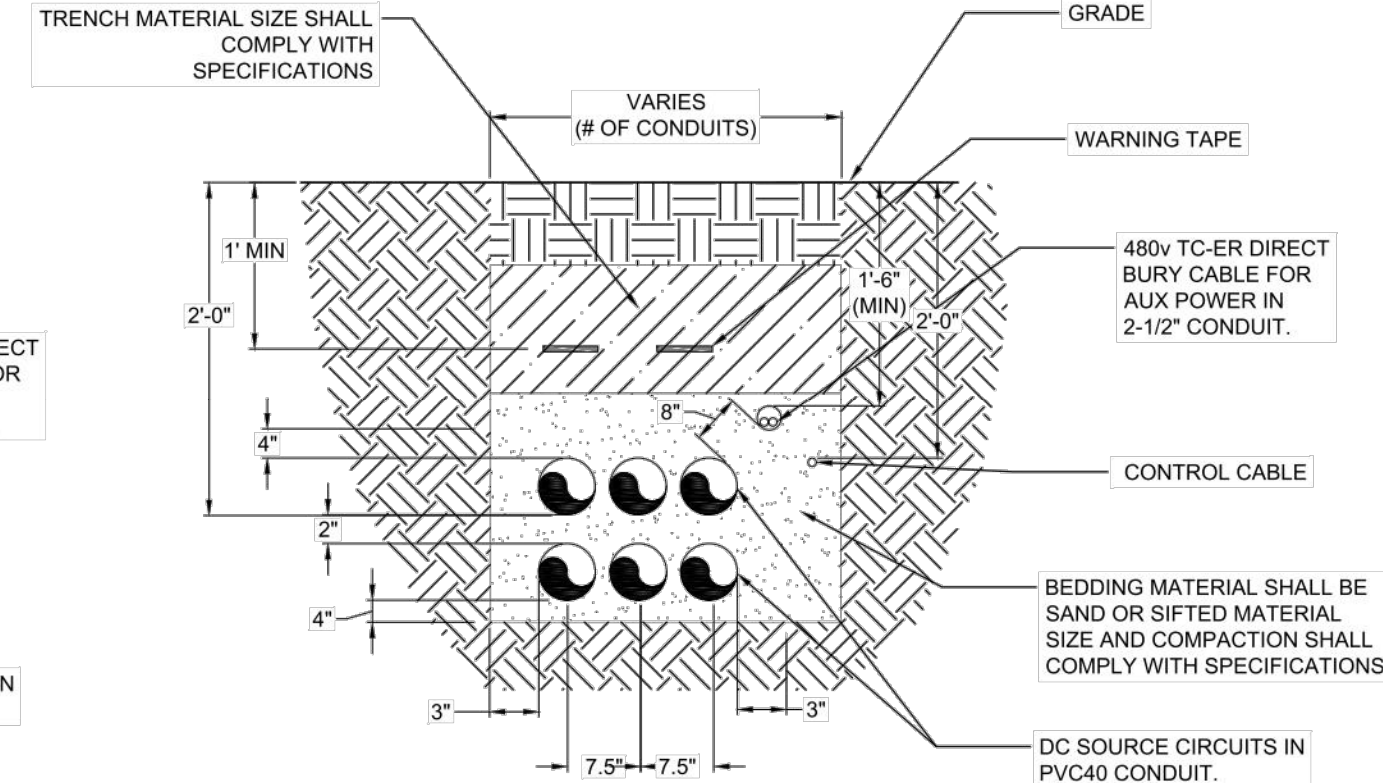
MV / FO CROSSING GROUND RING 6 E9
SCALE: NTS



RANDOM LAY MV / FO CABLES 7 E9
SCALE: NTS

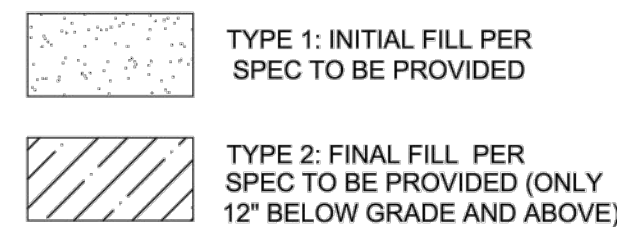


DC CIRCUIT TRENCH 8 E9
SCALE: NTS



DC CIRCUIT & INTER ROW CONDUIT TRENCH 9 E9
SCALE: NTS

LEGEND:



NOTE: OTHER BACKFILL IS PERMISSIBLE IF APPROVED BY OWNER. BOTTOM OF TRENCH CAN BE SCARIFIED IN LIEU OF BEDDING IF APPROVED BY OWNER.

TRENCHING NOTES:

- BACKFILL MATERIAL SHALL BE PER SPECIFICATIONS.
- THE DISTANCE BETWEEN EDGE OF TRENCH AND RACKING SUPPORT PILE SHALL BE 3' OR PER RACKING MANUFACTURER SPECIFICATIONS, WHICHEVER IS GREATER.
- 12" MIN. CLEARANCE SHALL BE MAINTAINED BETWEEN POWER AND CONTROL / COMMUNICATION WIRING.
- NECESSARY COMPACTION OF TRENCHING SHALL OCCUR AFTER A MAXIMUM OF BACKFILL (TYPICALLY 8"-12") HAS BEEN APPLIED AND SHALL BE COMPACTED AND TESTED PER GEOTECH REQUIREMENTS.
- THE NUMBER OF CABLES/CONDUITS SHOWN IS REPRESENTATIVE AND MAY VARY PER THE SITE TRENCHING PLAN.
- EDGE OF TRENCH SHALL BE MIN. OF 36" OFF THE EDGE OF ANY PAD UNLESS APPROVED BY E.O.R.
- FOR BURIAL DEPTH UNDER ACCESS ROADWAYS, CONDUIT SHALL BE SCHEDULE 80 PVC AND EXTEND 6' PAST EDGE OF ROADWAY.
- SOIL COMPACTION AND MATERIAL SIZE SHALL COMPLY WITH SPECIFICATIONS.
- TRENCH BACKFILL MATERIAL REQUIREMENTS (SEE SPECIFICATION FOR FULL DESCRIPTION):
 - INITIAL BACKFILL: PLACE AND COMPACT INITIAL BACKFILL FREE OF ANY ANGULAR PARTICLES OF ANY SIZE, ORGANIC OR DELETERIOUS MATERIALS, AND ANY NON-ANGULAR PARTICLES LARGER THAN 3/4-INCH IN ANY DIMENSION FOR UNDERGROUND CONDUIT AND 1/2-INCH IN ANY DIMENSION FOR DIRECT BURIED CONDUCTORS, TO A HEIGHT OF 12-INCHES OVER THE CONDUIT OR CONDUCTORS
 - FINAL BACKFILL: PLACE AND COMPACT FINAL BACKFILL FREE OF ORGANIC OR DELETERIOUS MATERIALS, AND OF ANY PARTICLES LARGER THAN 1" TO FINAL SUBGRADE ELEVATION.
- TRENCH COMPACTION REQUIREMENTS: (SEE SPECIFICATION FOR FULL DESCRIPTION):
 - COMPACT SOIL MATERIALS TO BE NOT LESS THAN THE PERCENTAGE OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO STANDARD PROCTOR.
 - FOR UTILITY TRENCHES, COMPACT EACH LAYER OF INITIAL AND FINAL BACKFILL SOIL MATERIAL AT 85%.
- WARNING TAPE SHALL BE METAL DETECTABLE AND MIN. 6" WIDTH (SEE SPECIFICATIONS FOR FULL DESCRIPTION).
- HANDHOLES SHALL BE PROVIDED BY CONTRACTOR. QUANTITY, SIZE AND LOCATION SHALL BE DETERMINED BY CONTRACTOR PER NEC REQUIREMENTS, VENDOR SPECIFICATIONS, AND BEST PRACTICES.



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PERMITTING



SYSTEM SIZE: 10MW/10MWhr
UTILITY VOLTAGE: 24.9 kV
BUILDING NAME: PARK 121 BLDG 4
PROJECT SITE: 360 N FREEPORT PKWY COPPELL, TX 75019-3801

DESIGNED BY: RAVENVOLT
DRAWN BY: JBM
PROJECT MANAGER: DYLAN JACKSON
ELECTRIC UTILITY: ONCOR
AHJ: CITY OF COPPELL

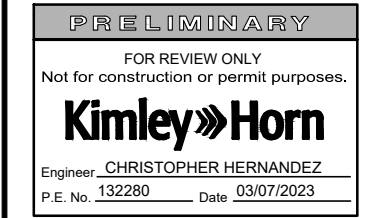
REVIEWED BY: ERH
ASSISTED BY: JBM

REVISION HISTORY		
REV	REVISION DESCRIPTION	DATE
0	PERMITTING	12/22/2022

SHEET TITLE: ELECTRICAL CONSTRUCTION DETAILS I
DRAWING NUMBER: E9
THIS DRAWING IS 24" X 36" AT FULL SIZE
SITE ID: DAL 05406

Kimley»Horn

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PHONE: 972-770-1300 FAX: 972-239-3820
WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM F-928



CONSTRUCTION DETAILS

RAVENVOLT BESS
COPPELL
CITY OF COPPELL
DALLAS COUNTY, TEXAS

SHEET NUMBER
C-08

Plotted By:Castillo, Armando Date:March 07, 2023 08:56:38am File Path:K:\DAL_Civil\0689329D0--RavenVot BESS Coppel\CadPlanSheets\C-Standard Details(2).dwg

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PRELIMINARY



SU344U170K/SU344U340K

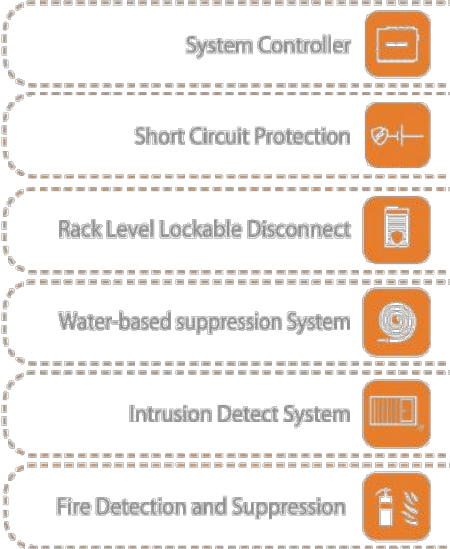
HIGHLIGHT

- Low Capex
- Plug and Play
- Low Field Labor Cost
- Pre-Populated with Batteries
- Flexible Deployment According to The Site Layout

Tel: +(0086)400-101-8585 Web: www.sylbattery.com E-mail: Service@sylbattery.com
Add: No.23 Xingke Middle Road, Melin Street, Ninghai County, Ningbo City, Zhejiang Province, China

Golden Sigma

Outdoor Liquid-Cooling Cabinet BESS

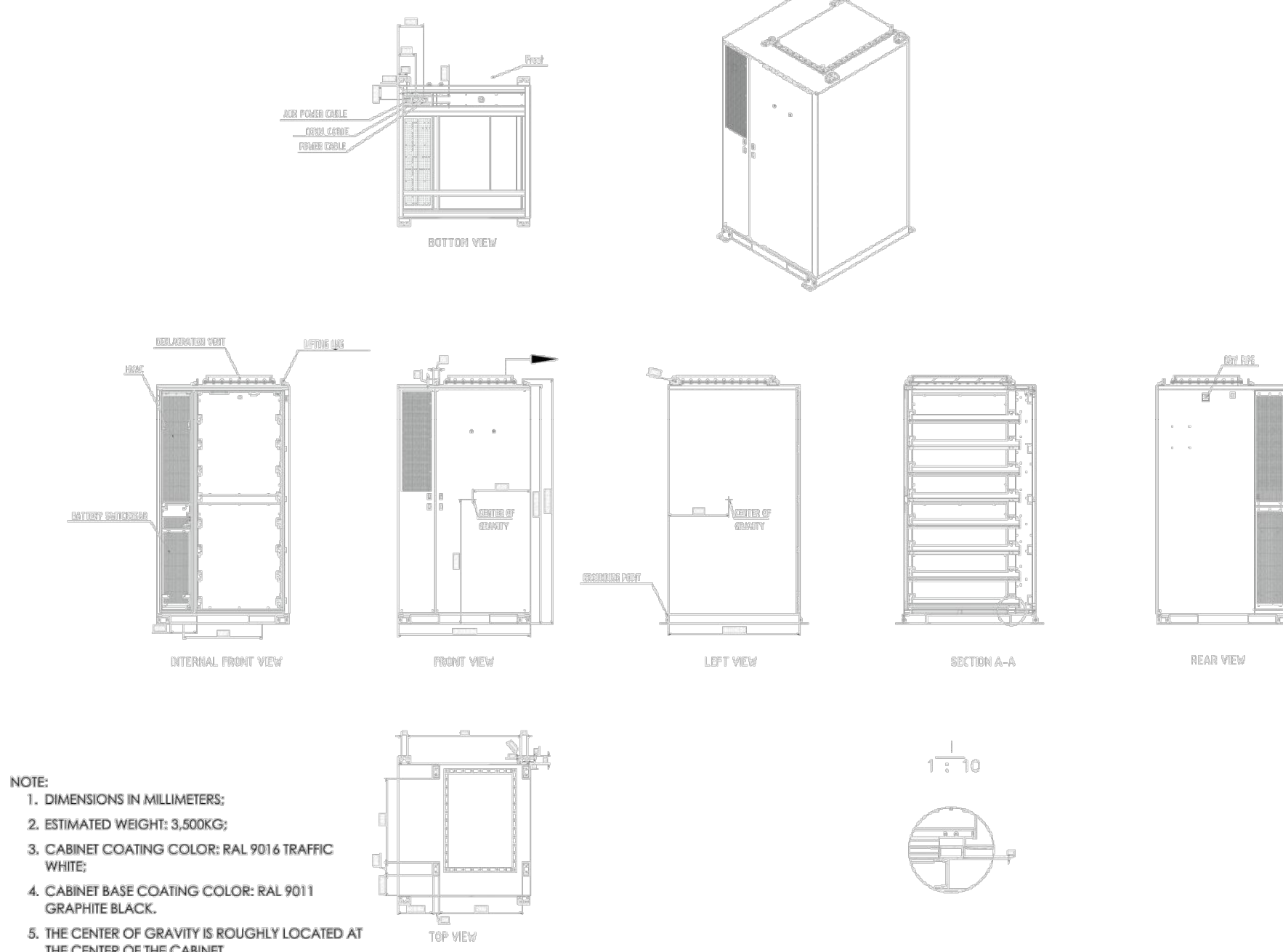


Technical Specification

Item	Specification	
System Model	SU344U170K	SU344U340K
System Information		
Nominal Power	172kW	344kW
Nameplate Capacity	344kWh	
Battery Information		
Battery Chemistry	LFP	
Capacity	280Ah	
Configuration	384S1P	
Nominal Voltage	1228.8V	
Voltage Range	1075.2~1382.4V	
Working Conditions		
Degree of Protection	NEMA 3R / IP54	
Noise Emission	< 65dB @1M	
Operating Temperature Range	-22°F~-113°F / -30°C~45°C	
Relative Humidity	0~95% (Non-Condensing)	
Max.Working Altitude	6,500/2,000m	
System Information		
Dimensions(W×H×D)	1,300×2,335×1,400	
Weight	3,500kg	
Cooling	HVAC	
Fire Suppression System	Aerosol	
Certificate	IEC62619, UL1973, UL9540A (Pending)	

Outdoor Liquid-Cooling Cabinet BESS

BATTERY CABINET SPECIFICATIONS 1
SCALE: N/A E10



- NOTE:
- DIMENSIONS IN MILLIMETERS;
 - ESTIMATED WEIGHT: 3,500KG;
 - CABINET COATING COLOR: RAL 9016 TRAFFIC WHITE;
 - CABINET BASE COATING COLOR: RAL 9011 GRAPHITE BLACK;
 - THE CENTER OF GRAVITY IS ROUGHLY LOCATED AT THE CENTER OF THE CABINET.

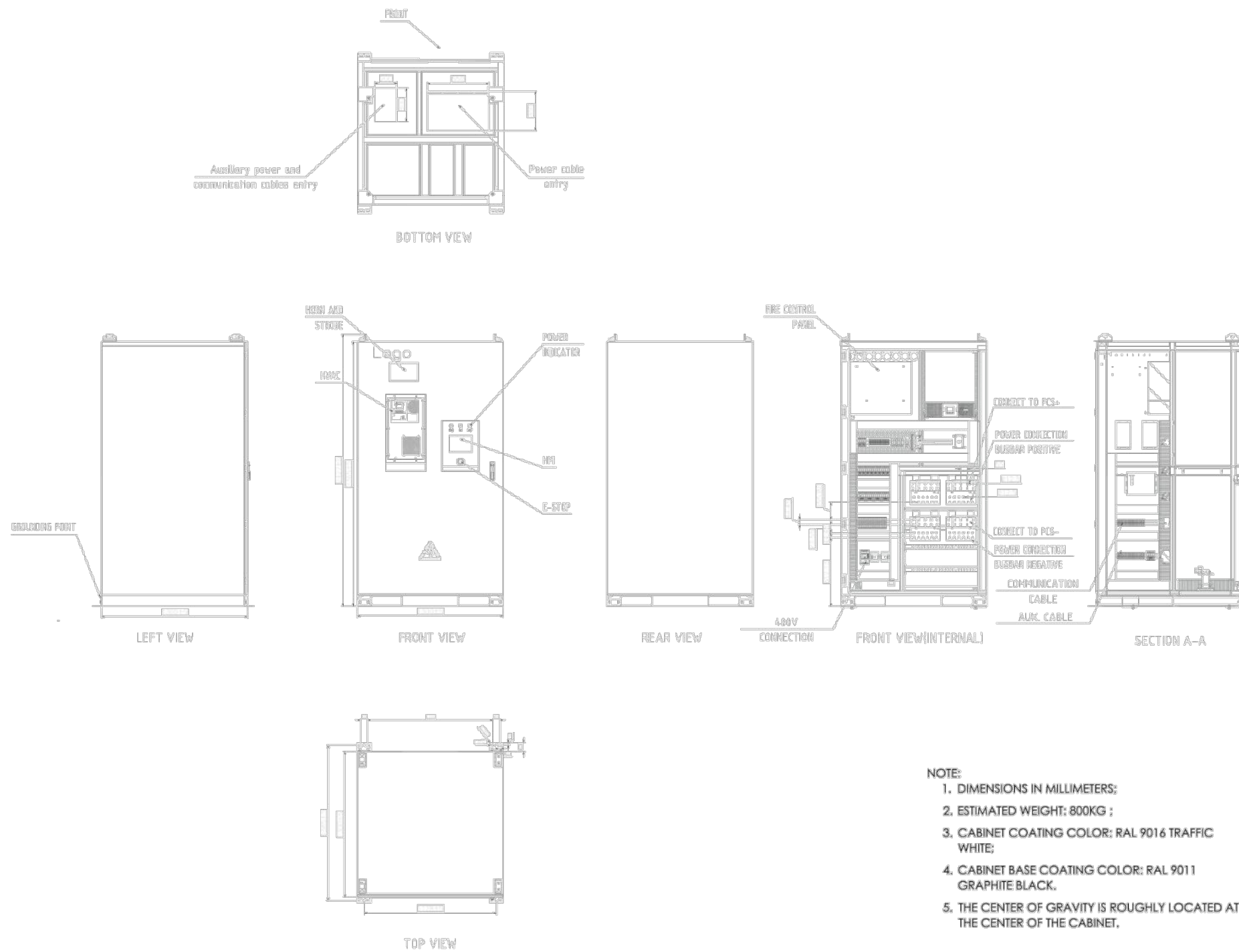
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REV.	DESCRIPTION	DATE	BY	CHK
A	ISSUE FOR REVIEW	08/30/2022	YTL	LZ
B	ADD MORE INFORMATION	09/01/2022	YTL	LZ
C	OPTIMIZATIONS	09/14/2022	YTL	LZ
D	OPTIMIZATIONS	09/15/2022	YTL	LZ
E	ADD GROUNDING POINT	10/20/2022	YTL	LZ
F	OPTIMIZE THE BOTTOM VIEW	10/21/2022	YTL	LZ
G	ADDING THE REAR VIEW	01/03/2023	YTL	LZ

SYL
SYL (Ningbo) Battery Co., Ltd.
No. 23 Xingke Strong Road, Ninghai,
Ningbo P.R. China, 315009
Tel: +86-574-89933556
Fax: +86-574-89933556
www.sylbattery.com

PROJECT: SU344U340K
PHASE: EXECUTED DESIGN
TITLE: MECHANICAL ASSEMBLY
DRAWN: ZHANG LEI
CHECKED: LEI ZHANG
APPROVED: LEI ZHANG
DATE: 01/03/2023
PROJECT NO.: DRAWING NO.:
SCALE: 1:1 REVISION: C

BATTERY CABINET MECHANICAL DESIGN 2
SCALE: N/A E10



- NOTE:
- DIMENSIONS IN MILLIMETERS;
 - ESTIMATED WEIGHT: 800KG ;
 - CABINET COATING COLOR: RAL 9016 TRAFFIC WHITE;
 - CABINET BASE COATING COLOR: RAL 9011 GRAPHITE BLACK;
 - THE CENTER OF GRAVITY IS ROUGHLY LOCATED AT THE CENTER OF THE CABINET.

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REV.	DESCRIPTION	DATE	BY	CHK
C	OPTIMIZATIONS	08/24/2022	YTL	LMJ
D	OPTIMIZATIONS	09/14/2022	YTL	LMJ
E	OPTIMIZATIONS	09/14/2022	YTL	LMJ
F	ACCOUNTING ROLE	09/14/2022	YTL	LMJ
G	OPTIMIZATIONS	10/09/2022	YTL	LMJ
H	OPTIMIZATIONS	10/20/2022	YTL	LMJ
I	OPTIMIZATIONS	10/20/2022	YTL	LMJ
J	OPTIMIZATIONS	11/04/2022	YTL	LMJ

SYL
SYL (Ningbo) Battery Co., Ltd.
No. 23 Xingke Strong Road, Ninghai,
Ningbo P.R. China, 315009
Tel: +86-574-89933556
Fax: +86-574-89933556
www.sylbattery.com

PROJECT: SD3500K12
PHASE: EXECUTED DESIGN
TITLE: MECHANICAL ASSEMBLY
DRAWN: YUNFEI LI
CHECKED: MINJUN JIANG
APPROVED: LEI ZHANG
DATE: 11/04/2022
PROJECT NO.: DRAWING NO.:
SCALE: 1:1 REVISION: J

BCP (BATTERY CONTROL PANEL) MECHANICAL DESIGN 3
SCALE: N/A E10



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PRELIMINARY



SYSTEM SIZE: 10MW/10MWhr
UTILITY VOLTAGE: 24.9 kV
BUILDING NAME: PARK 121 BLDG 4
PROJECT SITE: 360 N FREEPORT PKWY, COPPELL, TX 75019-3801

DESIGNED BY: RAVENVOLT
DRAWN BY: JBM
PROJECT MANAGER: DYLAN JACKSON
ELECTRIC UTILITY: ONCOR
AHJ: CITY OF COPPELL

REV	REVISION DESCRIPTION	DATE
0	PERMITTING	12/22/2022

SHEET TITLE: EQUIPMENT SPECIFICATIONS I
DRAWING NUMBER: E10
THIS DRAWING IS 24" X 36" AT FULL SIZE
SITE ID: DAL 05406

Kimley»Horn

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PHONE: 972-770-1300 FAX: 972-239-3820
WWW.KIMLEY-HORN.COM
TEXAS REGISTERED ENGINEERING FIRM F-928

FOR REVIEW ONLY
Not for construction or permit purposes.
Kimley»Horn
Prepared by: CHRISTOPHER HERMANDEZ
P.E. No. 132280 Date: 03/07/2023

KHA PROJECT: 068932900
DATE: MARCH 2023
SCALE: AS SHOWN
DESIGNED BY: CDH
DRAWN BY: AC
CHECKED BY: CDH

CONSTRUCTION DETAILS

RAVENVOLT BESS
COPPELL
CITY OF COPPELL
DALLAS COUNTY, TEXAS

SHEET NUMBER
C-10

REVISIONS
No. DATE BY

Plotted By:Castillo, Armando Date:March 07, 2023 08:56:45am File Path:k:\DAL_Civil\068932900--RavenVot BESS Coppel\Cad\PlanSheets\C--Standard Details(2).dwg
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SC2750/3150/3450UD-MV-US

Power Conversion System
Multi application

HIGH YIELD

- Advanced three-level technology/max. efficiency 99%
- Effective forced air cooling no derating up to 45 °C (113 °F)
- Wide DC voltage operation window, full power operation at 1500 V

SMART O&M

- Modular design, easy for maintenance
- High protection degree, easy for outdoor installation
- Optional CS anti-corrosion degree, adjust to applications close to the sea

FLEXIBLE APPLICATION

- Bidirectional power conversion system with full four-quadrant operation
- Compatible with high voltage battery system, low system cost
- Battery charge & dis-charge management and black start function integrated

GRID SUPPORT

- Compliant with UL794, IEEE1547, UL1741 SA, Rule 21 and HECO 14H
- Fast active/reactive power response
- LJHVRT, FRT, soft start/stop, specified power factor control and reactive power support

CIRCUIT DIAGRAM

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SUNGROW Clean power for all			
System Type	SC2750UD-MV-US	SC3150UD-MV-US	SC3450UD-MV-US
DC Side			
Max. DC voltage	900 V	950 V	1000 V
Min. DC voltage	95 V	95 V	95 V
DC voltage range	800 ~ 1500 V	915 ~ 1500 V	1000 ~ 1500 V
Max. DC current	1760 A *2	1760 A *2	1760 A *2
No. of DC inputs	2	2	2
AC Side (Grid)			
AC output power	2750 kVA @ 45 °C (113 °F)	3150 kVA @ 45 °C (113 °F)	3450 kVA @ 45 °C (113 °F)
Converter port max. AC output current	15430A	15430A	15430A
Converter port nominal AC voltage	550 V	550 V	550 V
Converter port AC voltage range	484 ~ 605 V	524 ~ 683 V	607 ~ 759 V
Nominal grid frequency / Grid frequency range	60Hz / 50-65Hz	60Hz / 50-65Hz	60Hz / 50-65Hz
Harmonic (THD)	< 3% (at nominal power)		
Power factor at nominal power / Adjustable power factor	+ 0.99 (1 leading ~ 1 lagging)		
Adjustable reactive power range	-100% ~ 100%		
Feed-in phases / AC connection	3 / 3		
AC Side (Off-Grid)			
Converter port nominal AC voltage	550V	550 V	550 V
Converter port AC voltage range	484 ~ 605V	524 ~ 683 V	607 ~ 759 V
AC voltage distortion	< 3 % (linear load)		
DC voltage component	< 0.5 % Un (linear balance load)		
Unbalance load Capacity	100%		
Nominal voltage frequency / Voltage frequency range	60 Hz / 50 ~ 65 Hz		
Efficiency			
Inverter Max. efficiency	99 %		
Transformer			
Transformer rated power	2750 kVA	3150 kVA	3450 kVA
Transformer max. power	2750 kVA	3150 kVA	3450 kVA
LV / MV voltage	0.55 kV / (12 ~ 34.5) kV	0.69 kV / (12 ~ 34.5) kV	0.69 kV / (12 ~ 34.5) kV
Transformer vector	Dy11 or Dy11		
Transformer cooling type	ONAN (optional: ONAF)		
Oil type	Mineral oil(PCB free) or degradable oil on request		
Protection			
DC input protection	Load break switch + fuse		
Converter output protection	Circuit breaker		
AC output protection	Load break switch + fuse		
Surge protection	DC Type II / AC Type II		
Grid monitoring / Ground fault monitoring	Yes / Yes		
Insulation monitoring	Yes		
Overheat protection	Yes		
General Data			
Dimensions (W*H*D)	6050*2890*2430mm / 238.5" * 114.0" * 96.0"		
Weight	5000kg / 5527lb		
Degree of protection	TYPE 3R		
Operating ambient temperature range	-35 ~ 60°C (-31 ~ 140°F) (-31°F derating)		
Allowable relative humidity range	0 ~ 100%		
Cooling method	Temperature controlled forced air cooling		
Max. operating altitude	1000m (standard) / 3100m (optional)		
Display	LED, WEB HMI		
Communication	RS485, CAN, Ethernet		
Compliance	UL794, UL1741 SA, IEEE 1547, Rule 21, HECO 14H, CSA C22.2 No.071-16		
Grid support	LJHVRT, FRT, active & reactive power control and power ramp rate control, VAr var, Volt-var, Frequency-watt		

右视图
Right View

主视图
Front View

左视图
Left View

后视图
Back View

俯视图
Top View

最大开孔
Max Outside Dimension
(Door opening)

PCS (POWER CONVERSION SKID) SPECIFICATIONS 1
SCALE: N/A E10.1

PCS MECHANICAL DESIGN 2
SCALE: N/A E10.1

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PRELIMINARY

SYSTEM SIZE: 10MW/10MWhr
UTILITY VOLTAGE: 24.9 kV
BUILDING NAME: PARK 121 BLDG 4
PROJECT SITE: 360 N FREEPORT PKWY COPPELL, TX 75019-3801

DESIGNED BY: RAVENVOLT
DRAWN BY: JBM
PROJECT MANAGER: DYLAN JACKSON
ELECTRIC UTILITY: ONCOR
AHJ: CITY OF COPPELL

REVIEWED BY: ERH
ASSISTED BY: JBM

REVISION HISTORY		
REV	REVISION DESCRIPTION	DATE
0	PERMITTING	12/22/2022

SHEET TITLE: EQUIPMENT SPECIFICATIONS II
DRAWING NUMBER: E10.1
THIS DRAWING IS 24" X 36" AT FULL SIZE
SITE ID: DAL 05406

REVISIONS		DATE	BY

Kimley»Horn

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PHONE: 972-770-1300 FAX: 972-239-3820
WWW.KIMLEY-HORN.COM

TEXAS REGISTERED ENGINEERING FIRM F-928

FOR REVIEW ONLY
Not for construction or permit purposes.

Kimley»Horn

Prepared: CHRISTOPHER HERMANDEZ
P.E. No. 132280 Date: 03/07/2023

KHA PROJECT 068932900	DATE MARCH 2023	SCALE: AS SHOWN	DESIGNED BY: CDH	DRAWN BY: AC	CHECKED BY: CDH
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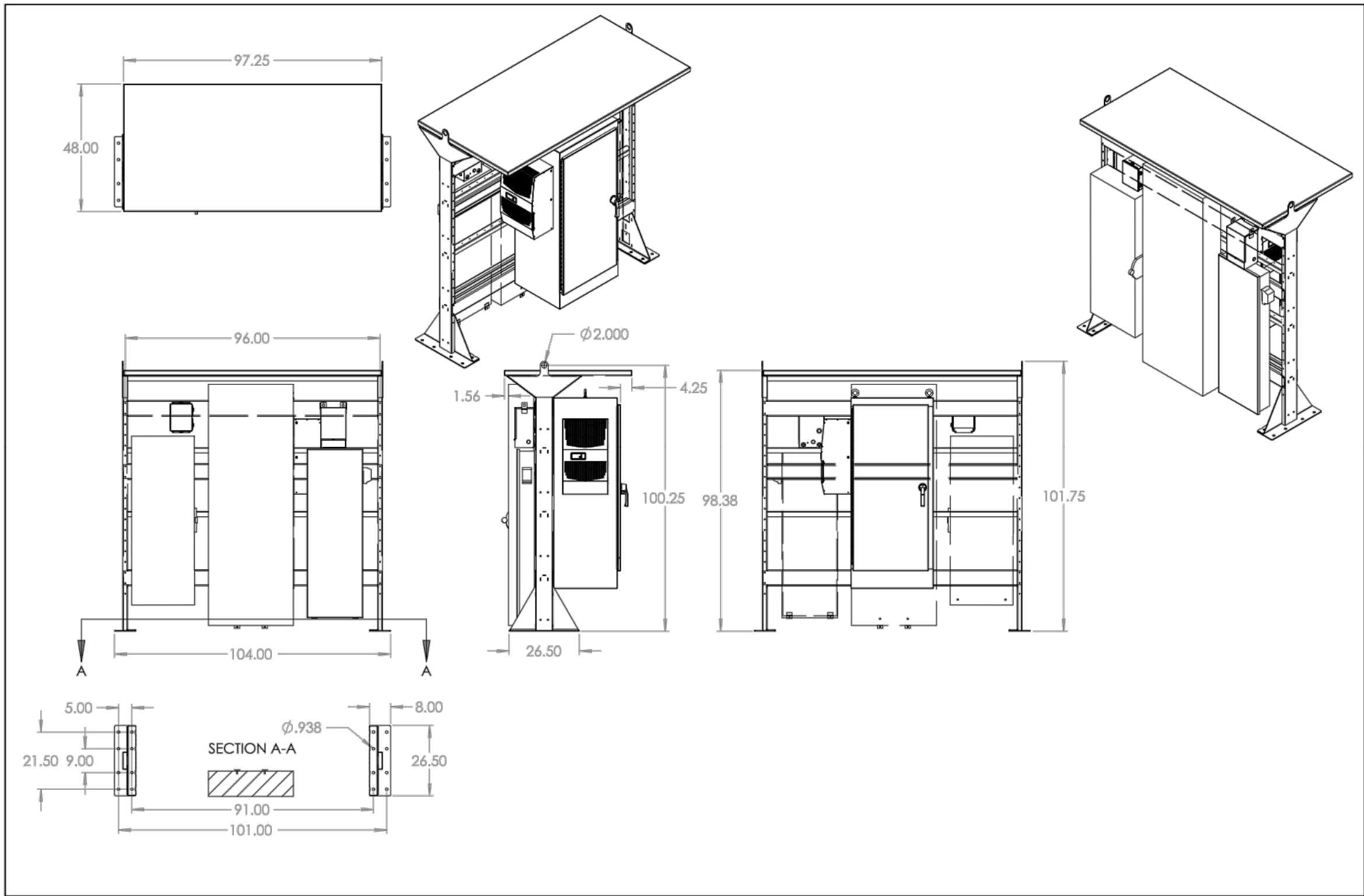
CONSTRUCTION DETAILS

RAVENVOLT BESS
COPPELL
CITY OF COPPELL
DALLAS COUNTY, TEXAS

SHEET NUMBER
C-11

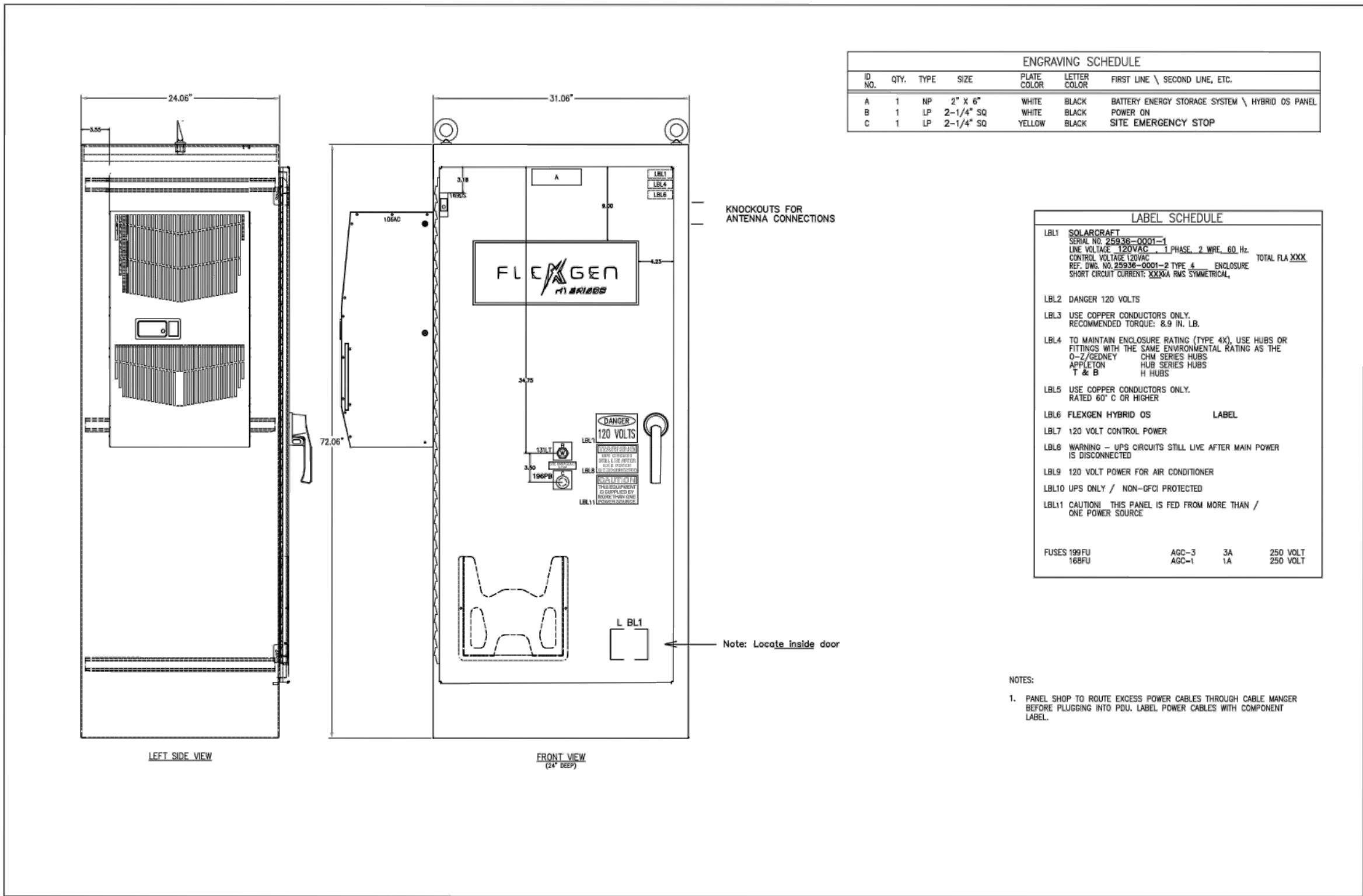
Plotted By:Castillo, Armando Date:March 07, 2023 08:56:51am File Path:k:\DAL_Civil\068932900-RavenVolt BESS Coppel\Doc\PlanSheets\c-Standard Details(2).dwg

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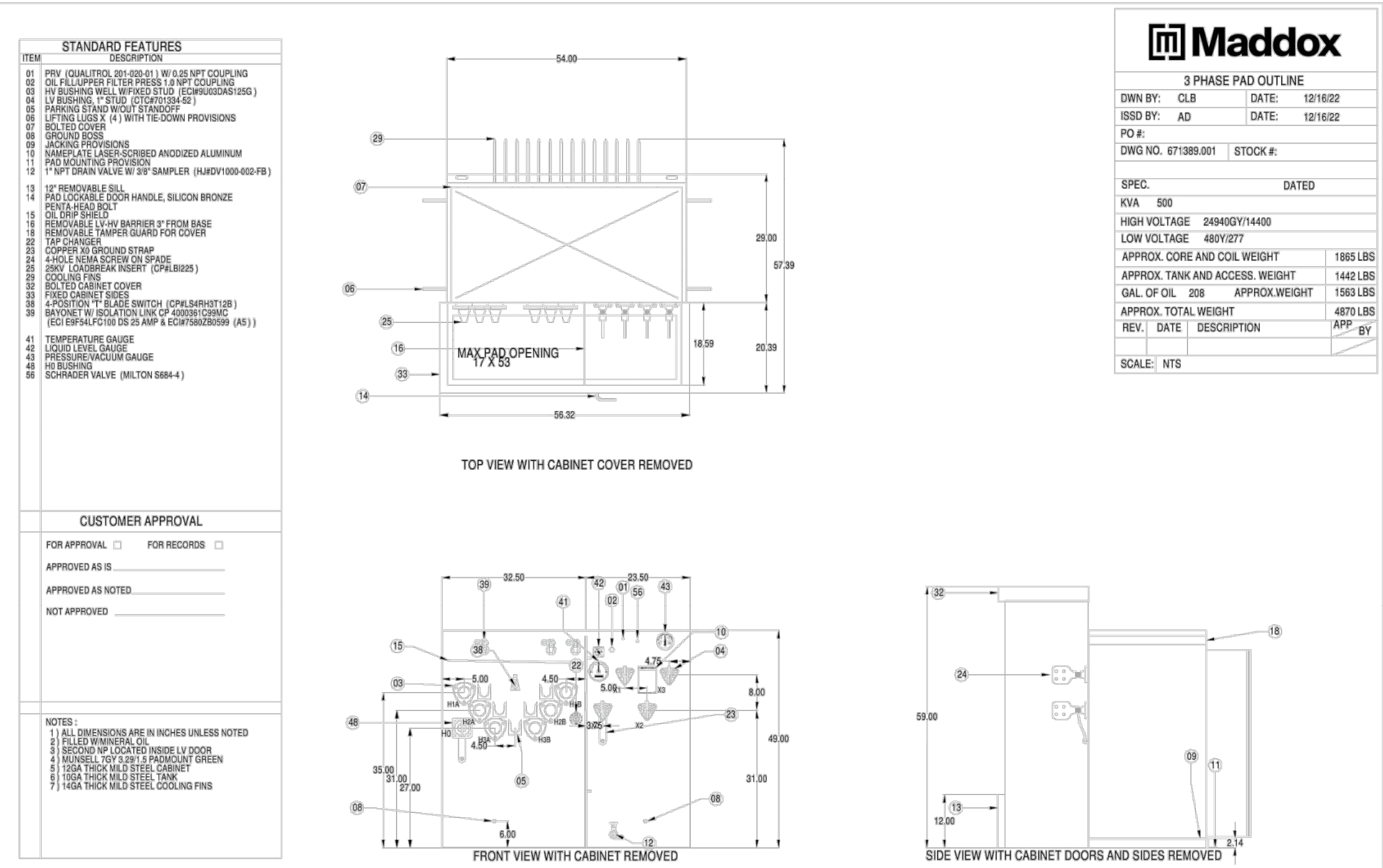
AUXILIARY PWR AND SYSTEM CONTROL ELEVATION
SCALE: NTS

1
E10.2



HYBRID OS ELEVATION
SCALE: NTS

2
E10.2



AUX PWR TRANSFORMER SPECS
SCALE: NTS

3
E10.2



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PRELIMINARY



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UTILITY VOLTAGE: 24.9 kV
BUILDING NAME: PARK 121 BLDG 4
PROJECT SITE: 360 N FREEPORT PKWY COPPELL, TX 75019-3801

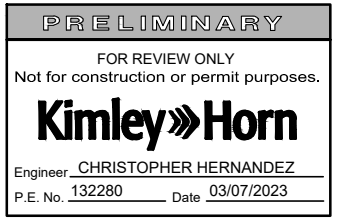
DESIGNED BY: RAVENVOLT
DRAWN BY: JBM
PROJECT MANAGER: DYLAN JACKSON
ELECTRIC UTILITY: ONCOR
AHJ: CITY OF COPPELL

REVISION HISTORY		
REV	REVISION DESCRIPTION	DATE
0	PERMITTING	12/22/2022

SHEET TITLE: EQUIPMENT SPECIFICATIONS III
DRAWING NUMBER: E10.2
THIS DRAWING IS 24" X 36" AT FULL SIZE
SITE ID: DAL 05406

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CONSTRUCTION DETAILS

RAVENVOLT BESS
COPPELL
CITY OF COPPELL
DALLAS COUNTY, TEXAS

SHEET NUMBER
C-12

