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2021

24-7 TRAVEL STORE

1980 S. Range Ave.

Colby, Kansas

24/7

TRAVEL STORE

RISER DIAGRAM NOTES

- (1) #10 INSULATED COPPER GROUNDING ELECTRODE CONDUCTOR CONNECTED (CAIWELD) TO BUILDING STEEL.
- (2) #10 GROUND CONNECTED TO WATER SERVICE AT POINT WATER LINE ENTERS BUILDING NOT EXCEEDING 30' BEYOND POINT OF ENTRANCE. VERIFY LOCATION AND ROUTING AT THE SITE.
- (3) #10 BARE GROUND IN 1/2" PVC CONNECTED TO 3/4" DIA. X 10' LONG COPPER GROUND ROD (CAIWELD) AND DRIVEN TO A MINIMUM DEPTH OF 10'. TYPICAL OF (2) RODS SPACED 10' APART. FIELD VERIFY EXACT INSTALLATION LOCATION.
- (4) 20 FT. OF #10 BARE COPPER GROUNDING ELECTRODE CONDUCTOR EMBEDDED IN BUILDING CONCRETE FOUNDATION.
- (5) ALL FEEDERS ROUTED BELOW GRADE SHALL BE PVC SCHEDULE 40 (U.N.D.). ALL BENDS SHALL BE G.R.S. - CONVERT TO G.R.S. BEFORE RISING ABOVE FINISHED FLOOR. NO ELECTRICAL PVC INSIDE BUILDING.
- (6) CONDUITS WITHIN CLASS 1 DIVISION 2 AREA SHALL BE PVC COATED G.R.S. REFER TO DETAIL ON SHEET E1.1.
- (7) PROVIDE AND INSTALL CONDUIT SEALS ON ALL CONDUITS FROM CLASSIFIED AREAS. SPACE CONDUITS APART TO ALLOW FOR FUTURE MAINTENANCE.
- (8) PROVIDE PANELBOARD "MDP" WITH POWER METERING EQUAL TO SQUARE D PM50.
- (9) INTEGRAL UNIT DIRECTLY CONNECTS TO THIS EQUAL TO SQUARE D PM50.
- (10) PROVIDE SHUNT TRIP MAIN PROVIDE AND INSTALL EXTERIOR MOUNTED MUSHROOM PUSH BUTTON PER SPEC TO SATISFY CITY OF COLBY REQUIREMENTS FOR EXTERIOR MOUNTED DISCONNECT SWITCH. COORDINATE LOCATION OF PUSH BUTTON WITH OWNER AND ARCHITECT.

PROVIDE AN ENGRAVED PHENOLIC PLACARD WITH THE FOLLOWING:
PANEL "MDP"
600A MAIN C.B.
120/208V/3PH/4W-G.
100,000 A.I.C.
Ø A=Black
Ø B=Red
Ø C=Blue
Neut.=White
Grnd.=Green

NEW UTILITY CO. PAD MOUNT TRANSFORMER
120/208V/3Ø SECONDARY
VERIFY ALL REQUIREMENTS WITH LOCAL UTILITY PRIOR TO BIDDING THIS PROJECT. ADHERE TO ALL UTILITY CO. REQUIREMENTS.

REINFORCED CONCRETE PAD FOR UTILITY CO. TRANSFORMER - SEE DETAIL ON SHEET ES1.1.

NEW U.G. PRIMARY CONDUCTORS AT 48" B.F.G.. VERIFY ALL REQUIREMENTS WITH WESTAR UTILITY CO. PRIOR TO BIDDING THIS PROJECT AND INCLUDE ALL UTILITY COSTS IN THE BASE BID. REFER TO SITE ELECTRICAL PLAN FOR ROUTINGS.

(2) SETS OF (4) #350 kcmil COPPER CONDUCTORS, EACH SET IN A 4" SCHEDULE 80 PVC CONDUIT. VERIFY ALL REQUIREMENTS WITH LOCAL UTILITY CO. PRIOR TO BIDDING THIS PROJECT.

ELECTRICAL RISER & DISTRIBUTION DIAGRAM

NO SCALE

120/208/3PH/4W

NEW UTILITY CO. PAD MOUNT TRANSFORMER
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REINFORCED CONCRETE PAD FOR UTILITY CO. TRANSFORMER - SEE DETAIL ON SHEET ES1.1.

NEW U.G. PRIMARY CONDUCTORS AT 48" B.F.G.. VERIFY ALL REQUIREMENTS WITH WESTAR UTILITY CO. PRIOR TO BIDDING THIS PROJECT AND INCLUDE ALL UTILITY COSTS IN THE BASE BID. REFER TO SITE ELECTRICAL PLAN FOR ROUTINGS.

(2) SETS OF (4) #500 kcmil COPPER CONDUCTORS, EACH SET IN A 4" PVC CONDUIT. TOP OF CONDUIT AT 36" B.F.G.. VERIFY ALL REQUIREMENTS WITH LOCAL UTILITY CO. PRIOR TO BIDDING THIS PROJECT.

DRAWINGS ISSUED			
NO.	DATE	ITEM	ISSUED
7	01/10/22	ADDENDUM 2	
6	12/10/21	BID SET	
5	11/05/21	FINAL PROGRESS SET	
4	10/06/21	PROGRESS SET	
3	9/17/21	PROGRESS SET	
2	6/17/21	PROGRESS SET	
1	10/14/21	CHECK SET	

COMPUTER DRAWING	

DATE: DECEMBER 2021	
DRAWN BY: CW	CHECKED BY: SM

SHEET	
E1.3	
OF	SHEETS

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