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SHEET # TITLE COVER SHEET 605-01 NOTES AND BILL OF MATERIALS 605-02

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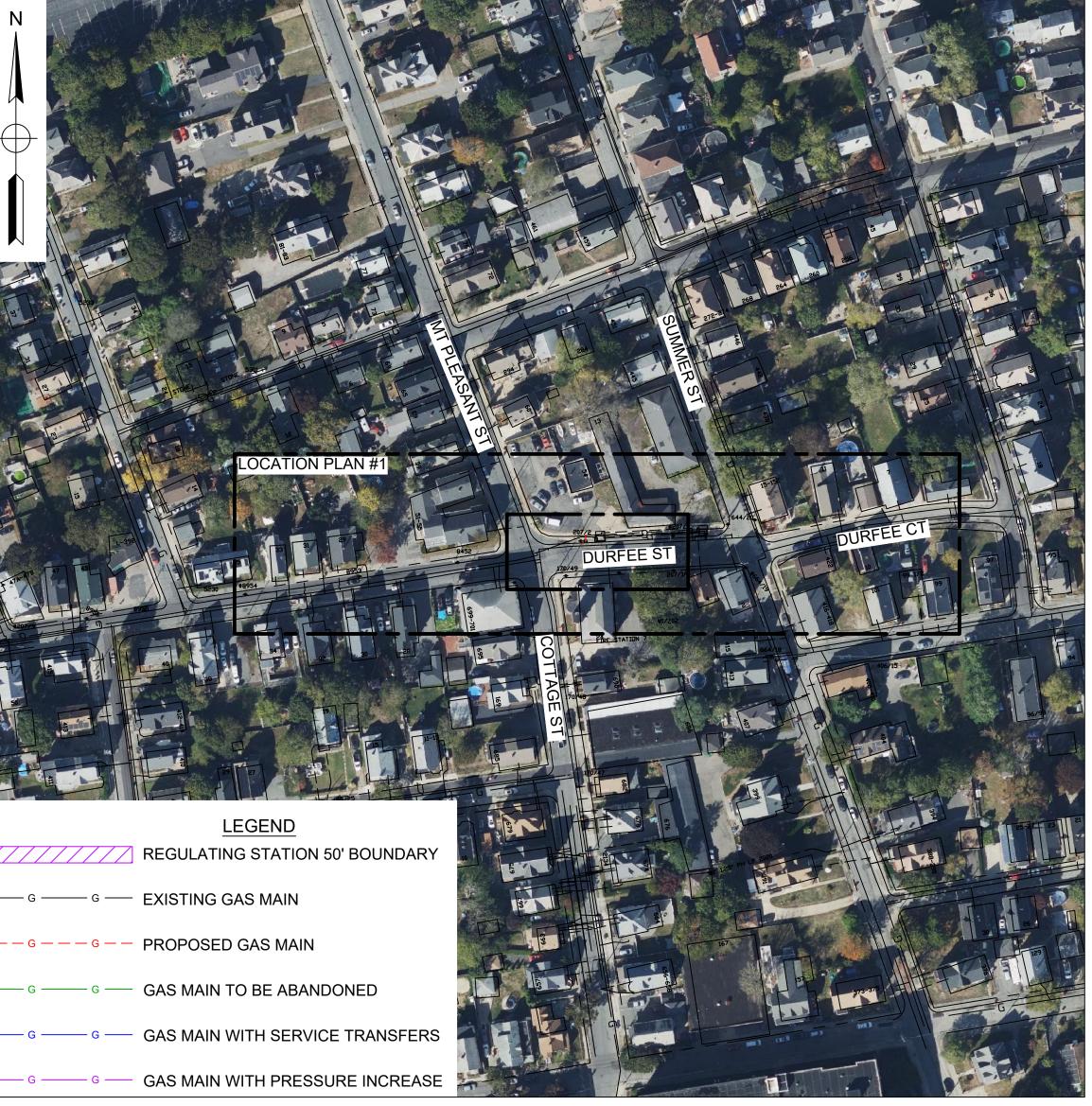


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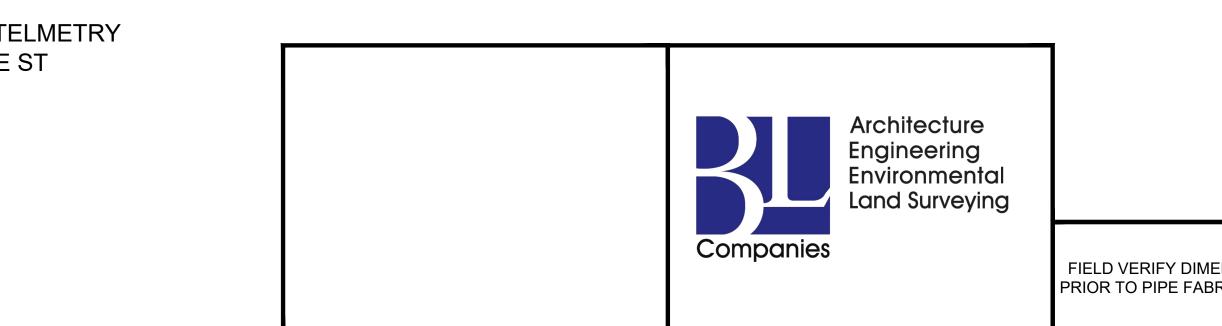
MAIN

INSTALLATION: REGULATOR TELMETRY AFFECTED STREETS: DURFEE ST

EVERSEURCE **ENERGY**



WORK SCOPE



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0 ISSUED FOR CONSTRUCTION 08/14/22 No. Description Date Revision/Status EVERSEURCE ENERGY DURFEE ST, NEW BEDFORD, MA WORK ORDER #G210312Y COVER SHEET	AG/ES Dw/Ck
No. Description Date Revision/Status EVERSEURCE ENERGY DURFEE ST, NEW BEDFORD, MA WORK ORDER #G210312Y	
Revision/Status EVERSEURCE ENERGY DURFEE ST, NEW BEDFORD, MA WORK ORDER #G210312Y	Dw/Ck
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ENERGY DURFEE ST, NEW BEDFORD, MA WORK ORDER #G210312Y	
DURFEE ST, NEW BEDFORD, MA WORK ORDER #G210312Y	
WORK ORDER #G210312Y	
COVER SHEET	
ENSIONS SCALE: 1" = 100' SHEET 0	OF 14
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AJG 08/01/22 EJS 08/14/22 MA-NEB-TLM-21-605-01	

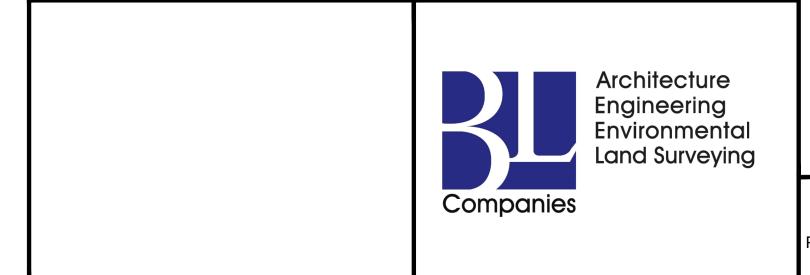
GENERAL NOTES:

- 1. IF ANY OF THE FOLLOWING OCCUR A DRAWING REVISION IS REQUIRED AND MUST BE APPROVED AND/OR STAMPED BY THE ENGINEER OF RECORD. CHANGES CAN BE APPROVED AND/OR STAMPED BY A PROJECT ENGINEER, BUT THE ENGINEER OF RECORD MUST BE INFORMED.
- 1.1. IF THE TIE IN POINT MOVES TO A DIFFERENT SEGMENT OF PIPE THAN SHOWN.
- 1.2. IF A CHANGE IN THE LOCATION OF VALVES IS REQUIRED.
- 1.3. IF THERE IS ANY CHANGE TO WHAT IS SHOWN ON THE DRAWING WITHIN 50 FT OF A PRESSURE REGULATING STATION, DISTRICT REGULATOR, OR GATE STATION.
- 1.4. IF A CHANGE IN PIPE SIZE, MATERIAL, OR WALL THICKNESS IS REQUIRED.
- 1.5. ALTERNATE FITTINGS THAT ARE ACCEPTABLE FOR ANY TIE-IN DETAIL WILL BE CALLED OUT IN THE DRAWING. FITTING CHANGES NOT SHOWN AS ALTERNATIVES ON THE DRAWING WILL NEED TO FOLLOW THE DRAWING CHANGE PROCESS CONTAINED IN SECTION V.D.
- 2. CONSTRUCTION DRAWINGS, LOCATIONS OF EXISTING UTILITIES, UNDERGROUND STRUCTURES AND WORK LOCATIONS ARE BASED ON BEST AVAILABLE INFORMATION BUT HAVE NOT BEEN FIELD VERIFIED.
- ALL WORK, MATERIAL AND CONSTRUCTION SHALL BE PERFORMED AND COMPLETED IN COMPLIANCE WITH ALL PERMITS AND APPROVALS PER EVERSOURCE, LOCAL, STATE, OSHA AND FEDERAL REGULATIONS AND STANDARDS.
- 4. ALL LIVE GAS WORK EXCEPT SERVICE SIZE TAPS, INCLUDING BUT NOT LIMITED TO TAPPING OF FITTINGS ON LIVE MAINS, STOPPING, MANIPULATING VALVE, ABANDONMENT, SHALL BE PERFORMED BY, OR AT THE DIRECTION AND UNDER THE DIRECT SUPERVISION OF EVERSOURCE GAS PERSONNEL AND IN ACCORDANCE WITH THE WRITTEN PROCEDURE. DRAWING CHANGES MAY ALSO REQUIRE A CHANGE TO THE PROCEDURE.
- 5. EXCAVATOR IS REQUIRED TO PROTECT EXISTING UTILITIES, STRUCTURES, LANDSCAPES FEATURES, SIGNAGE, CURBS, ETC. CARE SHOULD BE TAKEN NOT TO DISTURB OR DAMAGE SUCH ITEMS. ROADWAY, SIDEWALKS, AND GRASS DISTURBED SHALL BE RESTORED TO THE SATISFACTION OF THE CITY OR TOWN. PLANT BEDS WILL BE RELOCATED TO THEIR EXISTING REGULAR LOCATION.
- ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), INCLUDING ALL REVISIONS AND ADDENDA. ALL TRAFFIC CONTROL DEVICES WILL BE SUPPLIED BY EXCAVATOR.

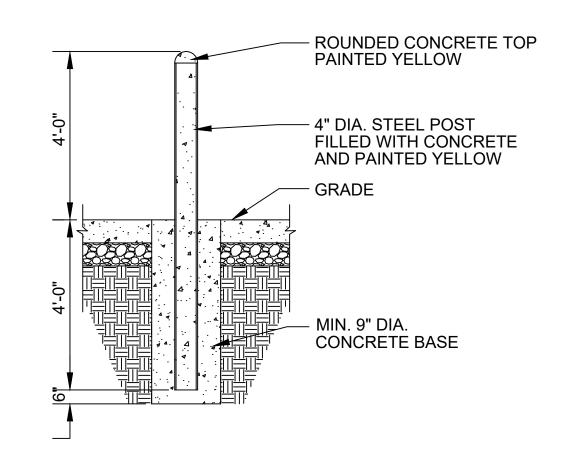
	BILL OF MATERIAL								
ITEM	SIZE	DESCRIPTION	QTY	UNIT					
1	1-1/4"	RMC CONDUIT, GALVANIZED, PVC COATED	40	FT					
2	3/4"	TEE, PIPE, NON-BLOWING, 3/4 IN X 3/4 CTS PLASTIC X 3/8 IN PERF SDR 9.7, WELD INLET X COMPRESSION OUTLET ENDS, LIGHT WALL, STEEL	1	EA					
3	3/4"	VALVE, BALL, FULL PORT, SERVICE, 3/4 IN CTS, 0.090 WALL, SDR 9.7, PE 4710, POLYETHYLENE, BUTT FUSE, BLACK FINISH	1	EA					
4	3/4"	PIPE, 3/4 IN CTS X 0.090 IN THK WALL SDR 9.7, 7/8 IN OD, 500 FT LG COIL, POLYETHYLENE, PE3408/PE100	40	FT					
6	3/4"	RISER, SERVICE, STRAIGHT, 3/4 IN CTS X 0.090 IN THK WALL SDR 9.7	1	EA					
7	3/4"	VALVE, SERVICE, 3/4 IN, THREADED ENDS, LOCK-WING TAMPER PROOF, BLACK FINISH	1	EA					
8	3/4"	COUPLING, METFIT, 3/4 IN CTS, 0.090 IN THK WALL SDR 9.7, PLASTIC, PE-4710	3	EA					
9	4 1/4" square	BOX VALVE, CURB, W/ 4-1/4 IN SQ COVER NON-LOCKING LID, FOR 1/2, 3/4, 1, 1-1/4, CURB VALVES, PAVEMENT RISER RING IN 583489, 48/SKID	1	EA					

* NOTE: 1. ADDITIONAL ELBOWS MAY BE REQUIRED FOR OFFSETS IN THE FIELD

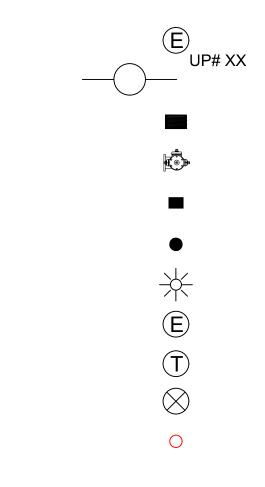
2. ALL MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

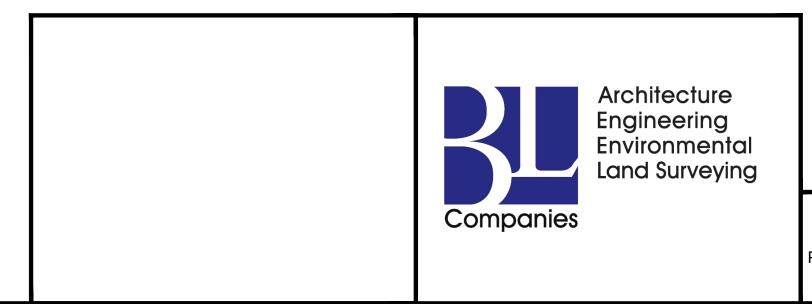


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				ENERGY						
			DURFEE ST, NEW BED	FORD, MA						
			WORK ORDER #G2 ²	10312Y						
			NOTES							
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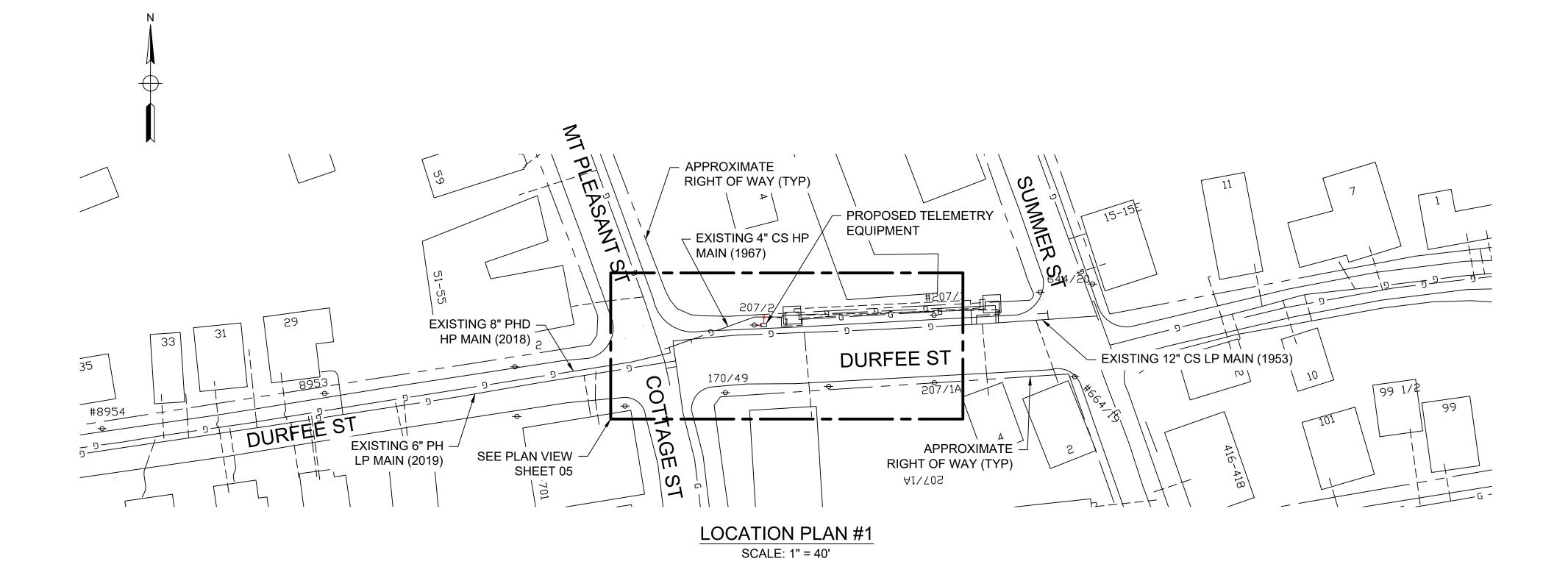


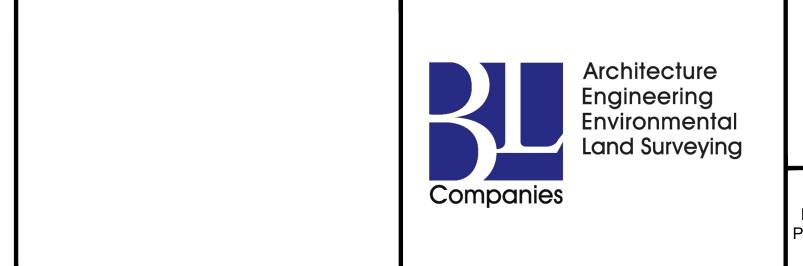
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DRAWING LEGEND

MANHOLE		REGULATING STATION 50' BOUNDARY
UTILITY POLE	G G	EXISTING GAS MAIN
CATCH BASIN	— — G — — — G — —	PROPOSED GAS MAIN
HYDRANT	G G	GAS MAIN TO BE ABANDONED
INSIDE METER		
OUTSIDE METER	G G	GAS MAIN WITH SERVICE TRANSFERS
LIGHT POLE	G G	GAS MAIN WITH PRESSURE INCREASE
ELECTRIC MANHOLE		RIGHT-OF-WAY
TELEPHONE MANHOLE	—— E —— E ——	ELECTRIC
VALVE		
SERVICE TEE	W W	WATER LINE
	S S	SEWER LINE
	— T T	TELEPHONE
	D D	DRAIN LINE
<u> </u>	<u> </u>	FENCE LINE

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			WORK ORDER #G22	0312Y					
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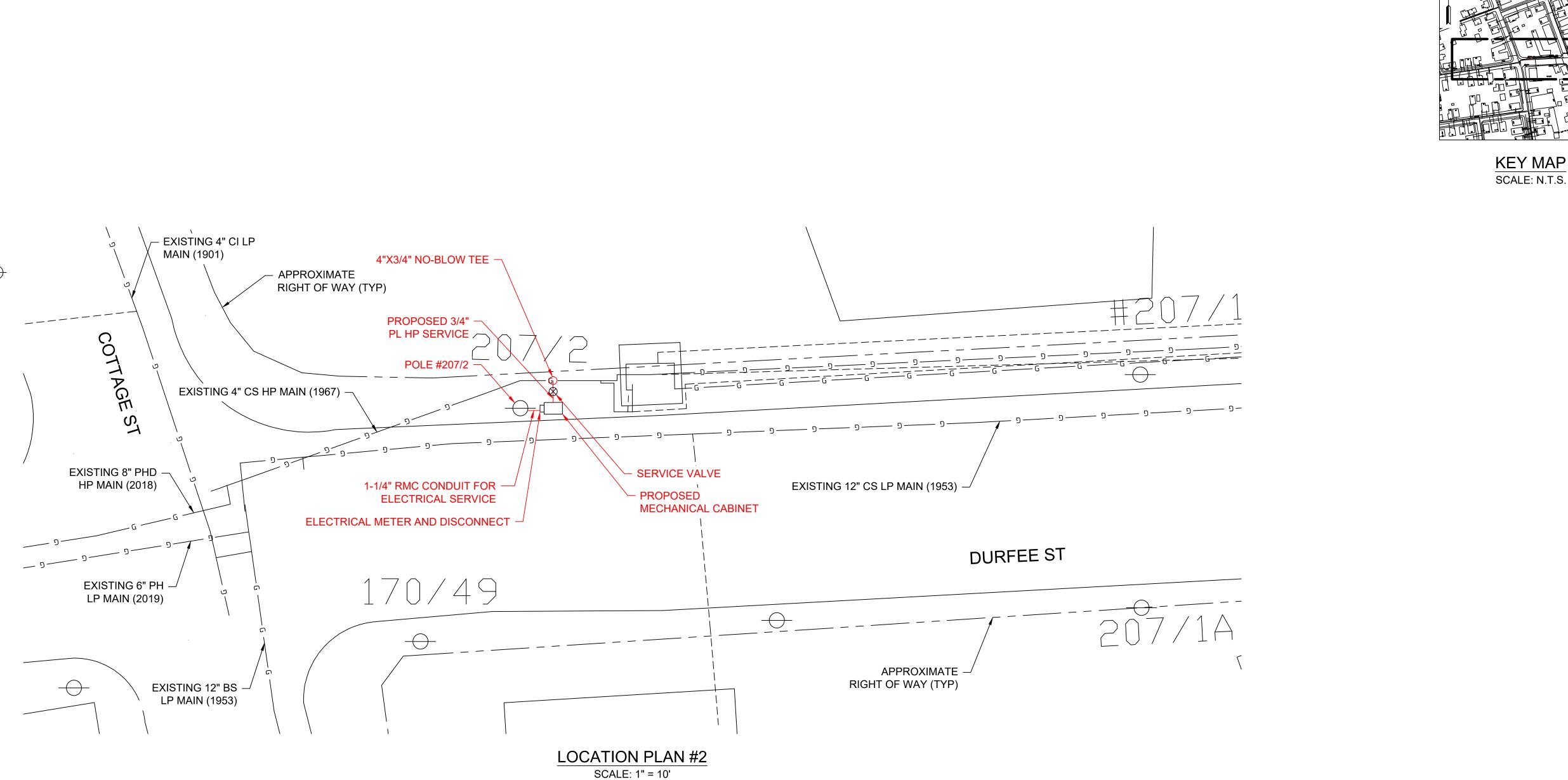


FIELD VERIFY DIMEN PRIOR TO PIPE FABR

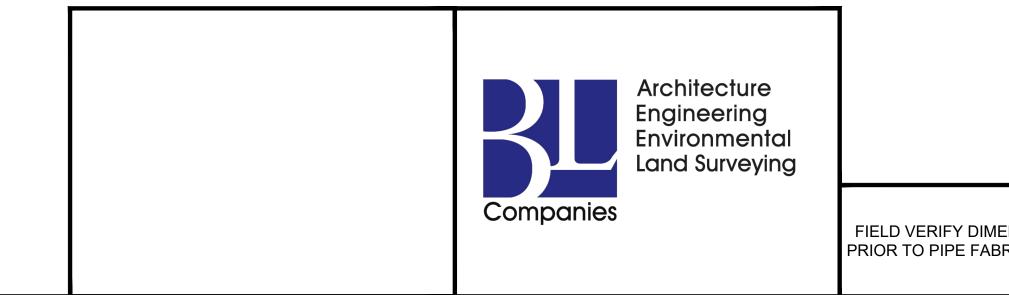


KEY MAP

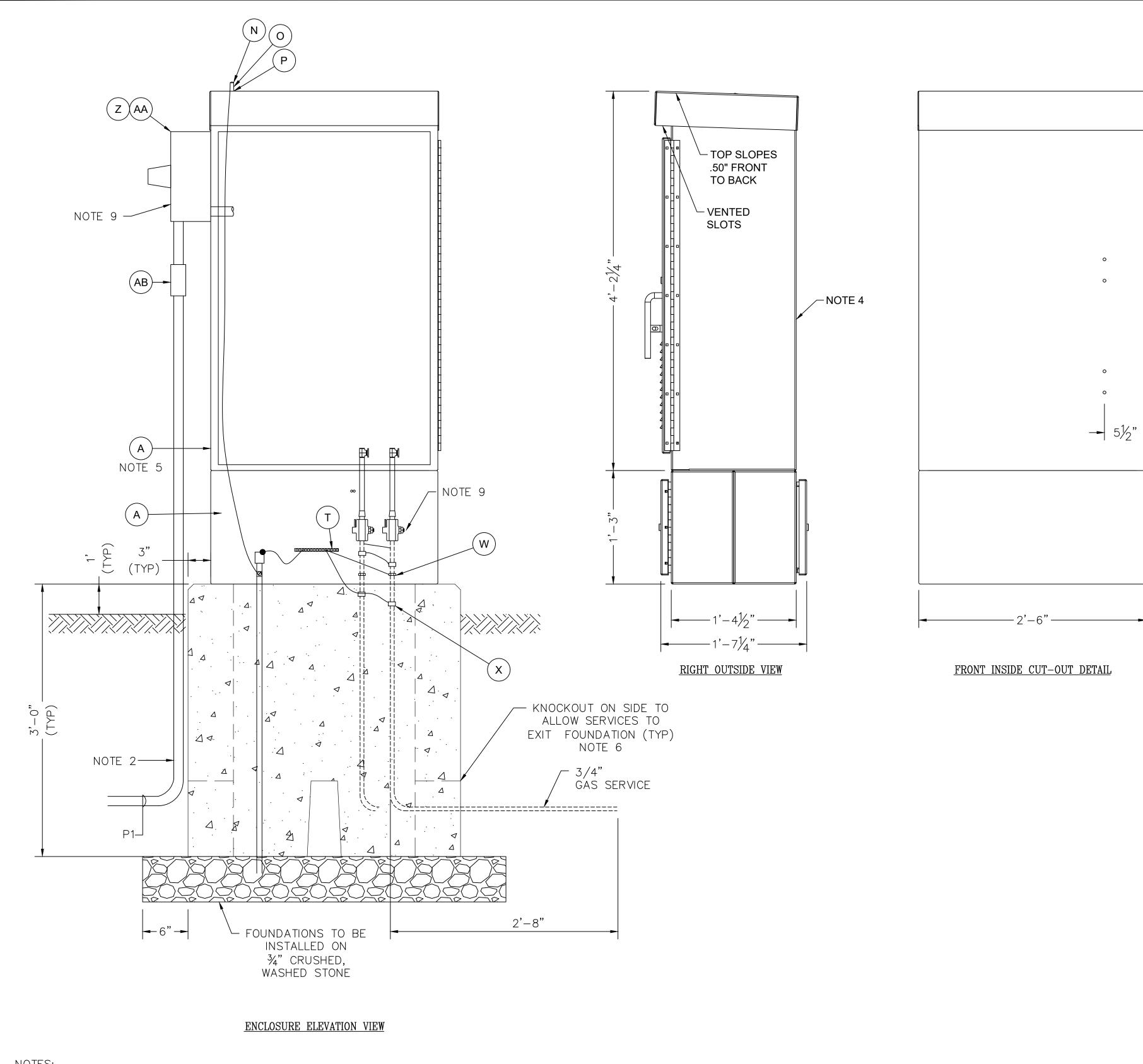
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	WORK ORDER #G2	210312Y	
	LOCATION PLA	N #1	
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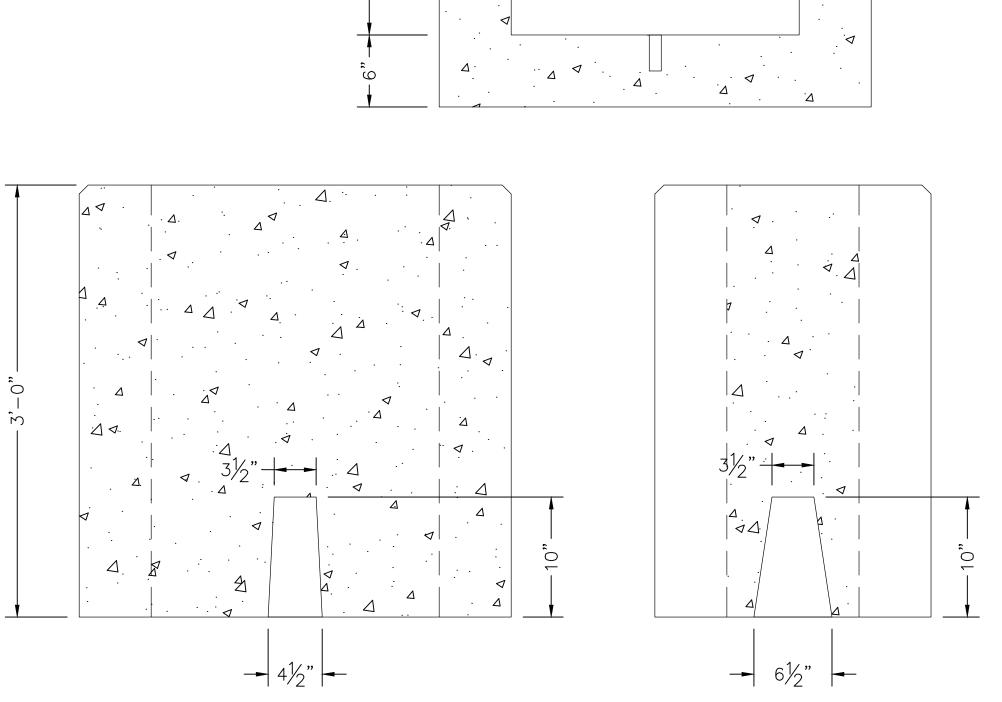
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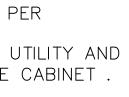


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			WORK ORDER #G21	0312Y					
			LOCATION PLAN	#2					
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- <u>NOTES:</u>
- 1. EFV TO BE INSTALLED PER MANUFACTURERS REQUIREMENTS. EFV SHALL BE PROPERLY SIZED FOR APPLICATION PER EVERSOURCE STANDARDS AND MANUFACTURERS REQUIREMENTS.
- 2. SERVICE CONNECTION TO CABINET SHALL BE IN ACCORDANCE WITH NFPA 70, THE REQUIREMENT OF THE LOCAL UTILITY AND THE AUTHORITY HAVING JURISDICTION (AHJ). IF A METER IS REQUIRED, IT SHALL BE LOCATED EXTERNAL TO THE CABINET . 3. AN EFV WILL BE INSTALLED ON EACH GAS LINE TO A TRANSMITTER.
- 4. EQUIPMENT SHALL BE MOUNTED NEAT AND PLUMB.
- 5. INSTALL STANDOFFS TO THE BACK PLANE OF EACH CABINET.
- 6. ALL BELOW GRADE OPENINGS IN POLL BOX SHALL BE PARGED WITH CONCRETE.
- 7. MARK CONDUIT AT 18" INTERVALS WITH 1 BAND BLUE SCOTCH 35 MARKING TAPE.
- 8. METER TROUGH & CIRCUIT BREAKER SHALL BE BY ELECTRICAL CONTRACTOR, METER BY UTILITY.
- 9. MOUNT AS LOW AS POSSIBLE IN LOWER CABINET (ALL EYS CONNECTORS)

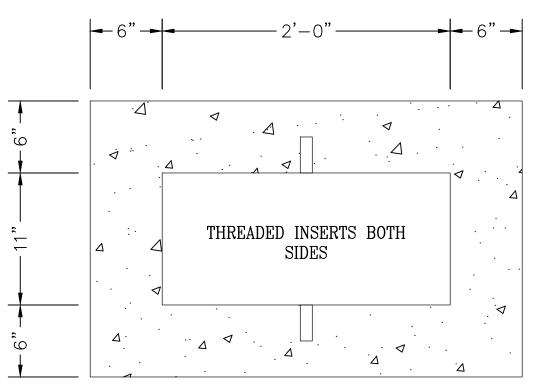


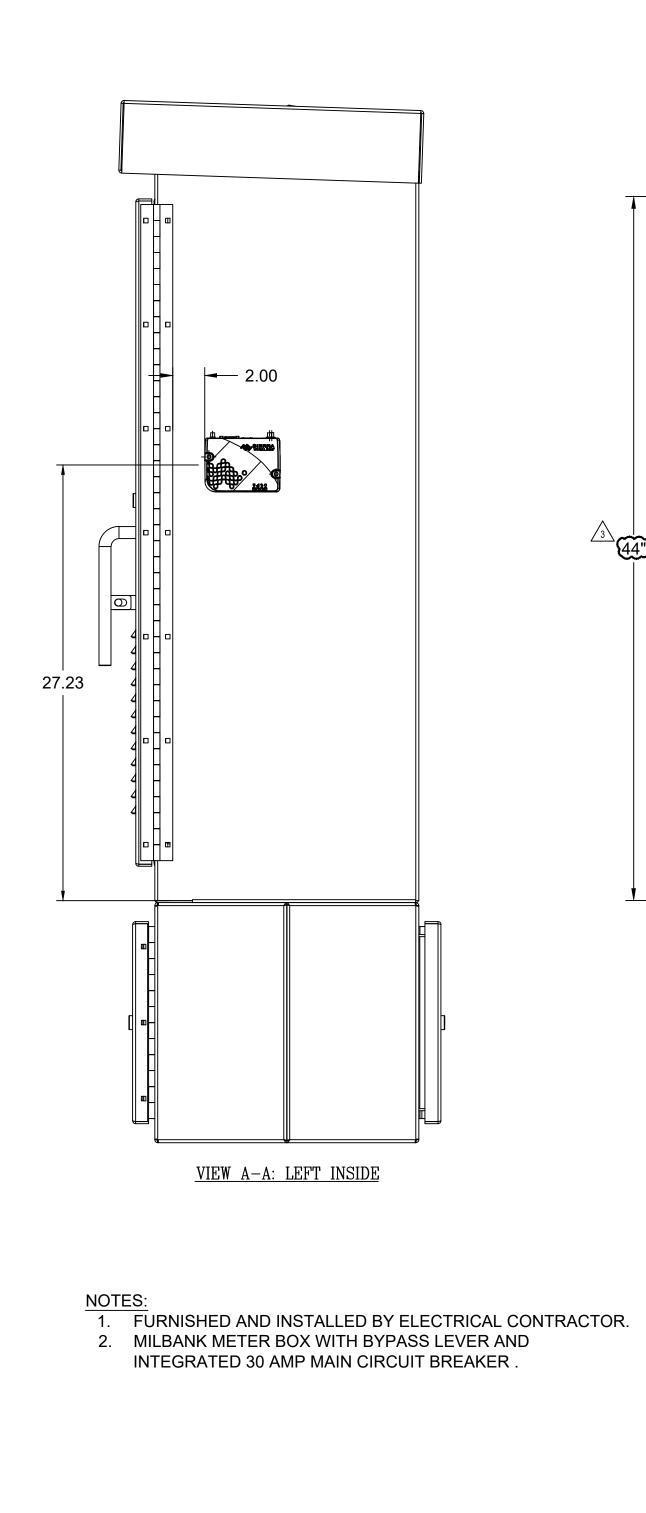


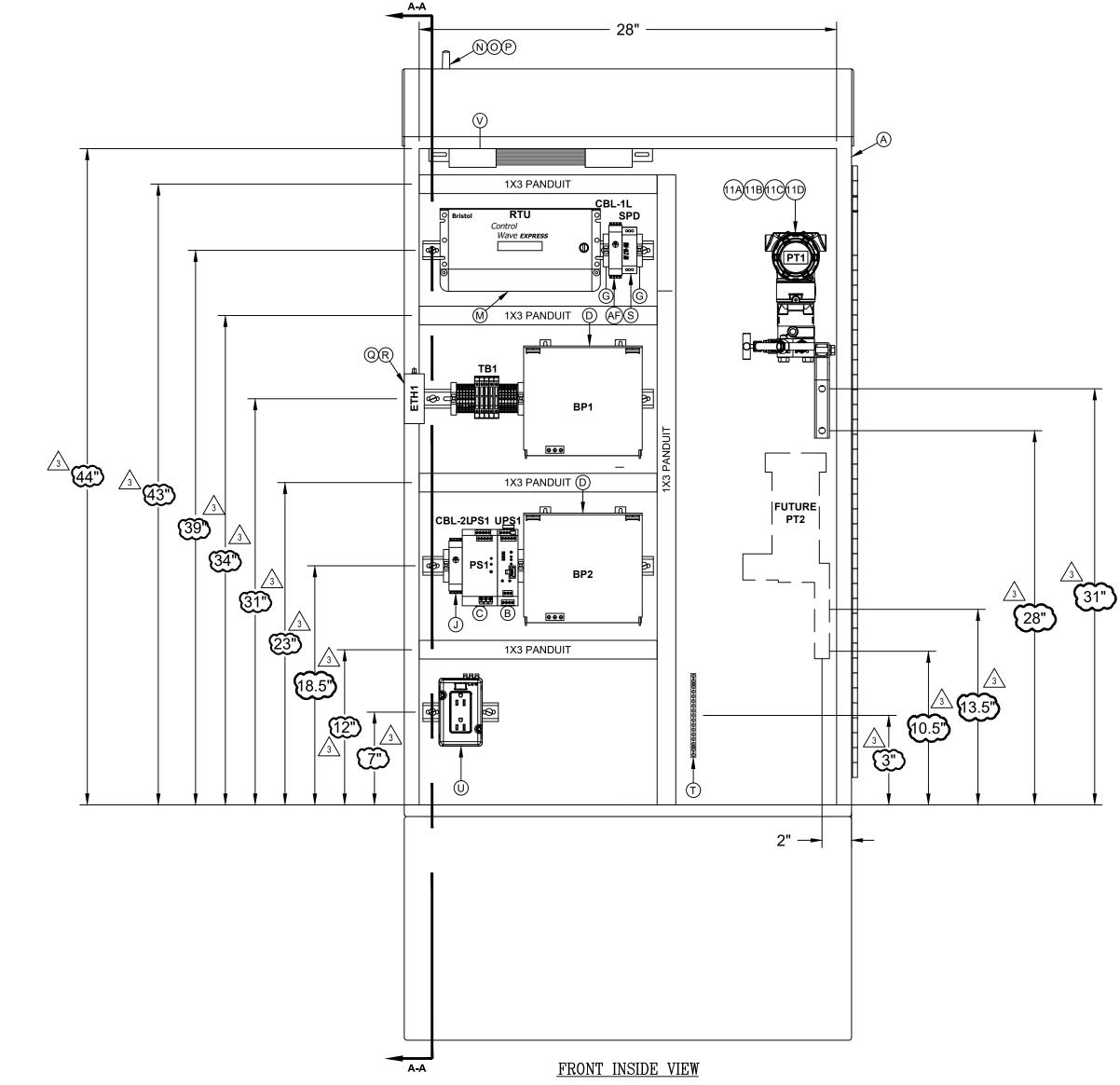


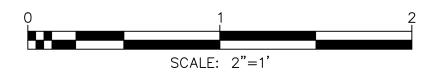


	2	REVISED NOTES AND	D ELEVATION VIEW		02/08/22	WBH/TAN		
	1	REMOVED DETAILS A	08/05/21	WBH/TAN				
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	ENERGY							
			T END POINT TELEL					
	FOR POWER DROP, CELLULAR COMMUNICATION							
	ENCLOSURE DETAILS							
MENSIONS	SCALE: 1-1/2" = 1' SHEET 6 OF 14							
OR TO PIPE		Drawn by / Date DBF / 04/09/21	Checked by / Date MPL / 04/09/21	Sheet I	Number	Rev. No.		
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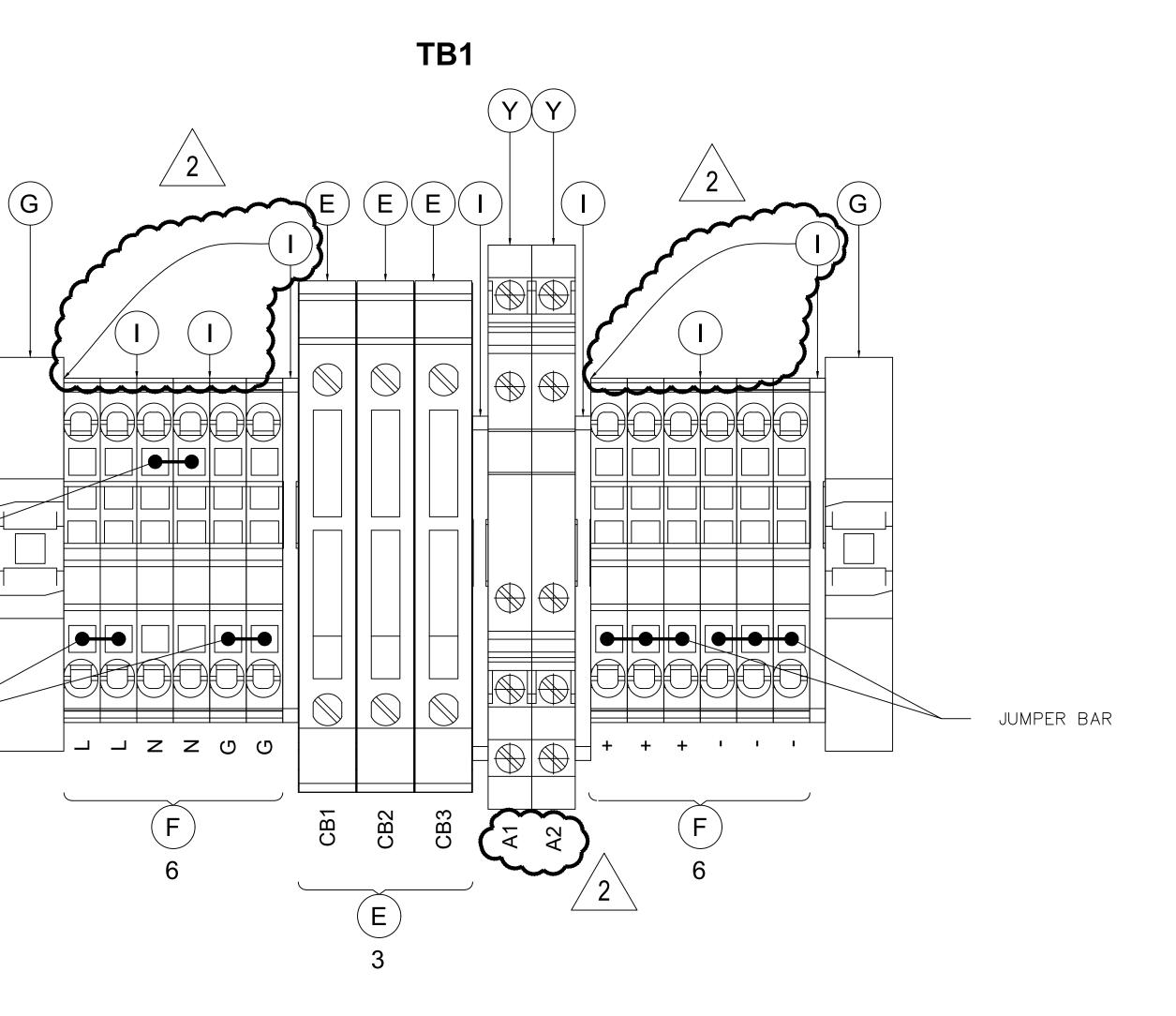




ITEM	QTY	PART NUMBER		DESCRIPTION	- T	ITEM	QTY	PART NUMBER	DESCRIPTION		
AC	1	TCP-1A	1A CB PHOENIX CONTACT			А	1	MARLIN ENCLOSURE	MARLIN ENCLOSURE: 50"H X 30"W X 16.5"D BASE MOUNT TYPE M CABINET WITH 15"H RISER CABINET IS A BASE MOUNTED, SINGLE		
AD	1	TCP-2A		$\sqrt{3}$		~	•		FRONT DOOR ENCLOSURE, 2 LOUVERS TO BOTTOM DOOR, FLOOR PLATE, 6 EA 3/8" X 2 STUDS TO BACKPLATE		
AE	1	TCP-6A	6A CB PHOENIX CONTACT			В	1	2320225	PHOENIX CONTACT: QUINT 24VDC UPS MODULE		
AF	$\frac{23}{1}$	2907196	PHOENIX CONTACT: CIRCU 120VAC DIN RAIL MOUNT H	IT BREAKERS ELECTRONIC 10A MC SERIES		с	1	2866763	QUINT-PS/1AC/24DC/10 10 AMP POWER SUPPLY		
						D	2	1274119	PHOENIX CONTACT: ENERGY STORAGE DEVICE, LEAD AGM, VRLA TECHNOLOGY, 24 V DC, 12 AH		
						E	3	3118203	PHOENIX CONTACT: MINI CB TB UKG-ISI-C		
						F	12	3031225	PHOENIX CONTACT: FEED THRU TERMINAL BLOCK BLUE PUSH IN CONNECTION		
						G	9	3022218	PHOENIX CONTACT: DIN RAIL END STOPS		
A						H	2	3030213	PHOENIX CONTACT: PUSH IN JUMPER 10 POLE		
						1	5	3030417	PHOENIX CONTACT: END PLATE		
						J	1	2907192	PHOENIX CONTACT: HMC 11 120AC 20A C1D2 CIRCUIT BREAKER ELECTRONIC 1POLE 20A 120VAC		
						11C	1	R0305C22B11B4	ROSEMOUNT COPLANAR MANIFOLD		
		<u>\</u>				11C	1	3051CG4A02A1AS5K 5M5T1	ROSEMOUNT: 3051C PRESSURE TRANSMITTER CALIBRATED TO 0-250 PSIG HIGH PRESSURE		
						М	1	CWEXP- 2-1-S8-5-00-1-0	EMERSON: CPU WITH ETHRNET DIN MOUNT, 9-28V, ETHERNET, 33 MHZ, NO GAS CALCS, 2 PI/DI ON BASE CPU BASE + 2 DI/DO, 4 DI, 2 DO, 2 HSC, 3 AI, NO APPLICATIONS, CONFORMAL COATING, NO DISPLAY		
			31"		-	N	1	TRA6927M3PB-001	LAIRD CONNECTIVITY INC. : OMNI-DIRECTIONAL ANTENNA BULKHEAD, IT 4C/3C PHANTOM, CELLULAR LTE		
					-	0	1	GEMEK	GEMEK: S-LMR 240 COAXIAL CABLE 10 FT SMA MALE TO N MALE CONNECTOR		
					-	Р	1	8521T921	MCMASTER: CARRI GASKET FOR PANEL MOUNT ANTENNA		
T 6).5")	3.5"				Q	1	6000659	SIERRA WIRELESS: DIN-RAIL BRACKET FOR MOUNTING THE AIRLINK RV50 CELLULAR MODEM		
_ س عت					-	R	1	RV50X-NA	SIERRA WIRELESS: AIRLINK RAVEN RV50X LTE ADVANCED CELLULAR GATEWAY		
					-	s	1	MA15/D/1/SI	EATON ELECTRIC LIMITED: MTL MA15/D/1/SI SURGE PROTECTION FOR 120VAC 15 AMP).		
					_	т	2	NA-413	ELEC DIRECT: 15-PORT GROUND BAR		
					-	U	1	1492-REC20G	ALLEN BRADLEY: PANEL MOUNT RECEPTACLE 20A 125VAC GFCI		
						v	1	EL1200D24V ELA02SF ELCN124V	HOFFMAN: PANEL LIGHT 24VDC LED WITH ACC.		
					NOTE 1	W	2	GROUND CLAMP	DAIRYLAND 3/4" PIPE & MTL=38 TUBING		
					NOTE 1	x	2	INSULATING UNION	3/4" GROUND JOINT		
						Y	2	2906798	PHOENIX CONTACT: ANALOG SURGE PROTECTOR		
					NOTE 2	Z	<u>/3</u>	HOM130	30 A CIRCUIT BREAKER		
					F	AA	1	U3741-XL-100-BL	MILBANK METER BOX WITH BYPASS LEVER		
					-	AB	1	AX135	OZ GEDNEY EXPANSION FITTING		
					L					4	
										04/11/22 02/08/22	WBH/TAN WBH/TAN
								1 RE	VISED BILL OF MATERIALS	08/06/21	WBH/TAN
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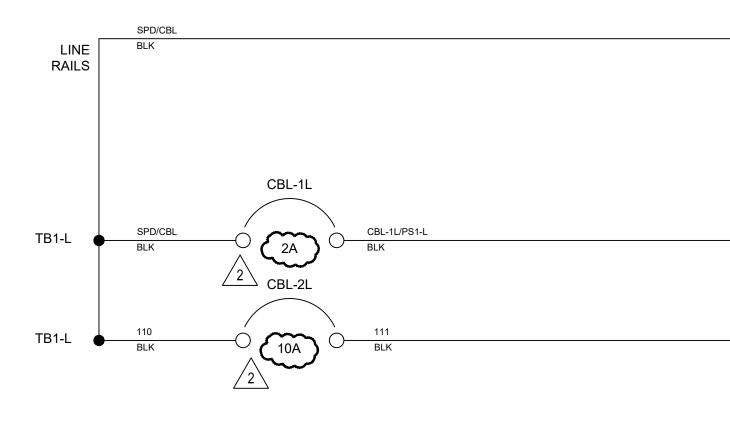




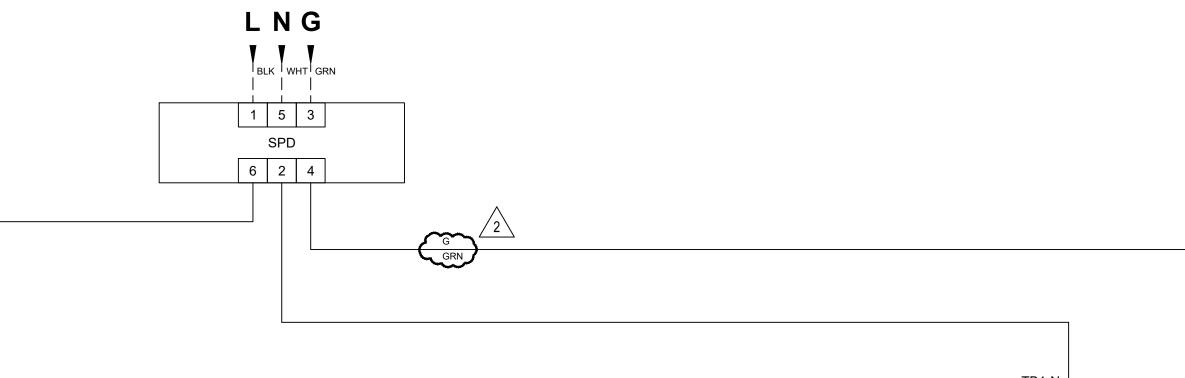
JUMPER BAR

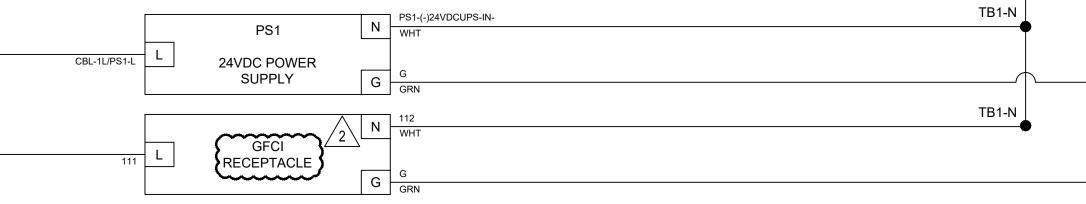
jumper bar —

	2	ADDED TEXT AND LE	ADERS		04/04/2022	WBH/TAN	
	1	ADDED ANALOG SUR	08/06/2021	WBH/TAN			
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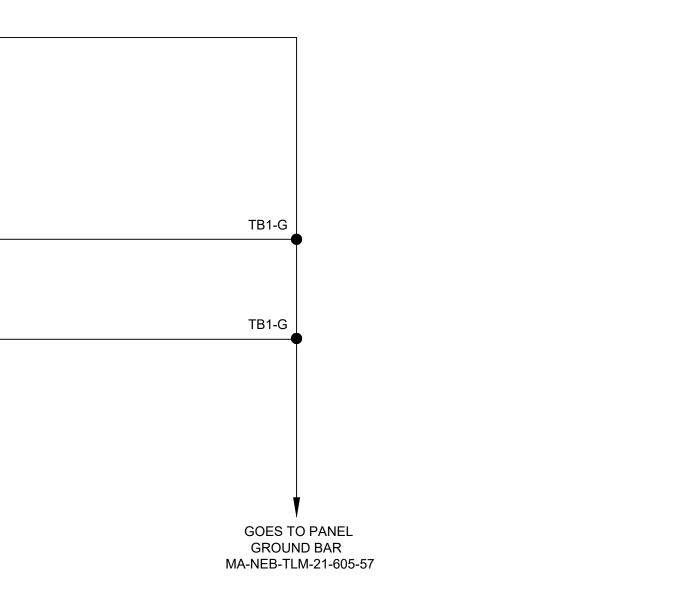


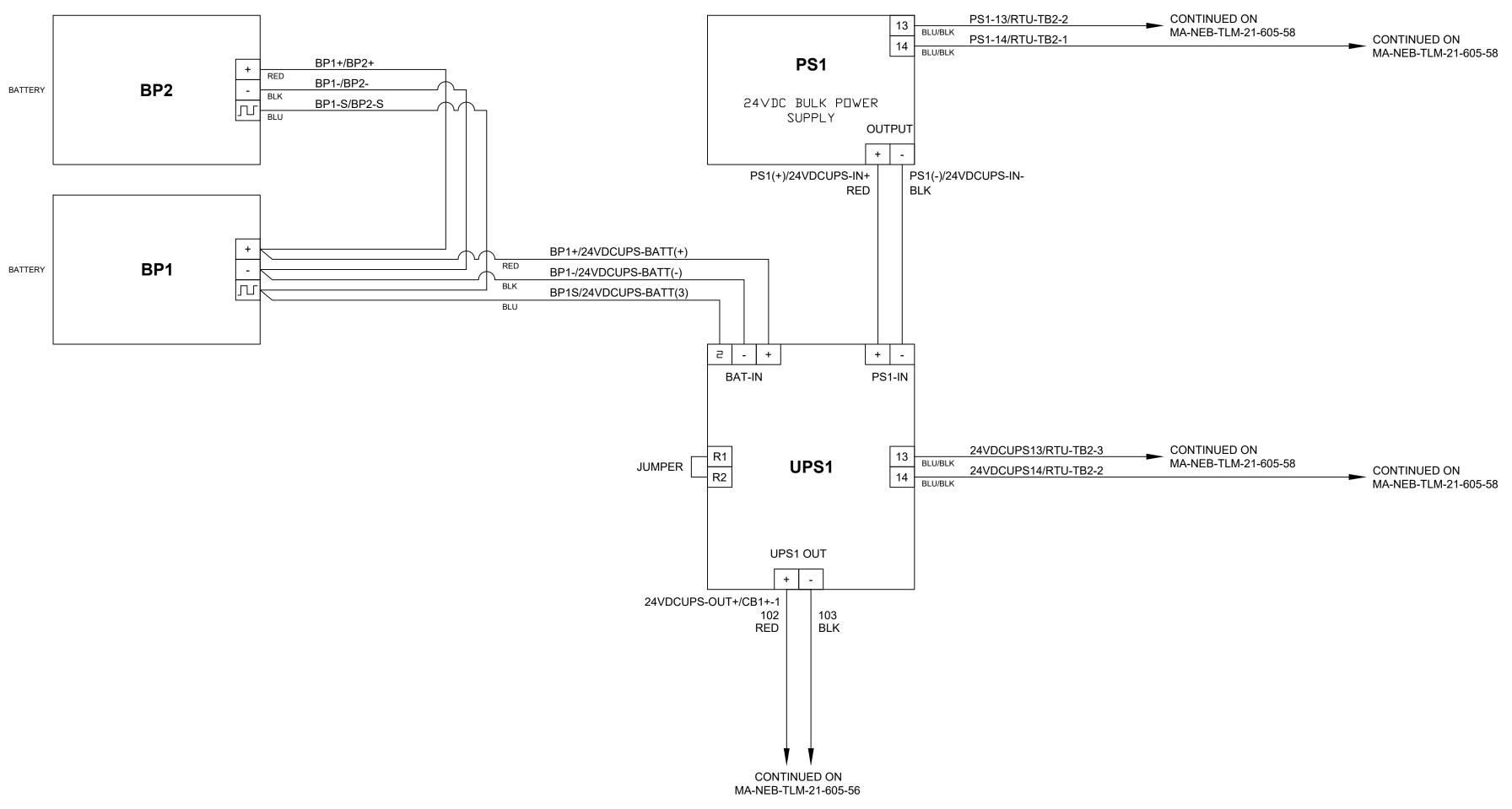
120/240 VAC FROM FIELD SERVICE ENTRY 60A PANEL





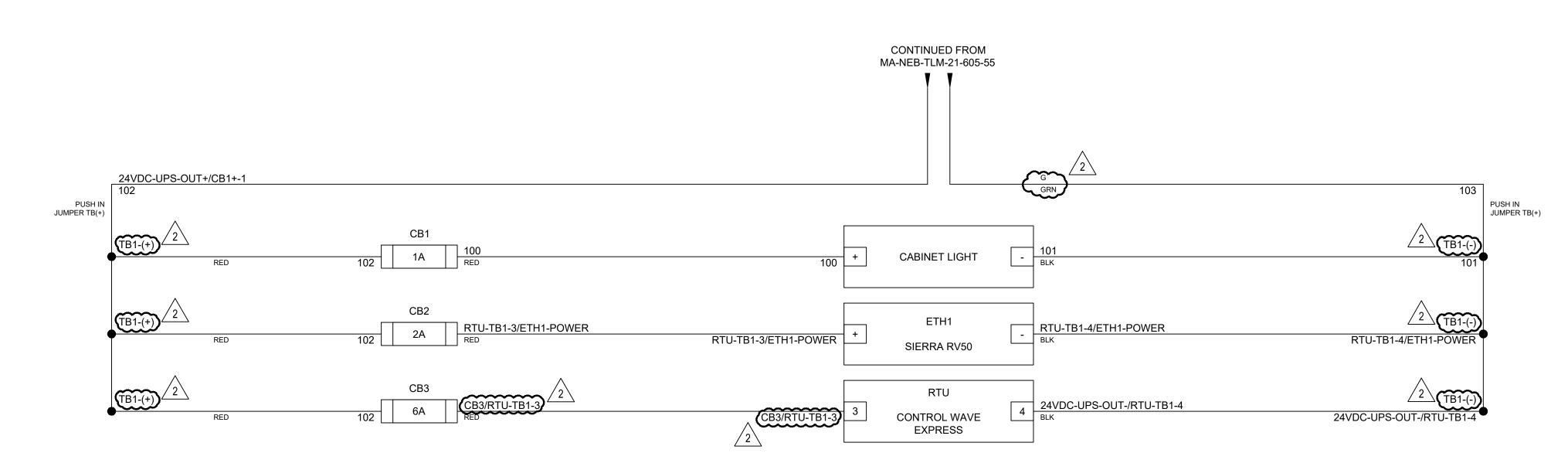
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	FOR POWER DROP, CELLULAR COMMUNICATION 120V AC POWER DISTRIBUTION						
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	FOR POWER DROP, CELLULAR COMMUNICATION							
LD VERIFY	120V AC POWER DISTRIBUTION							
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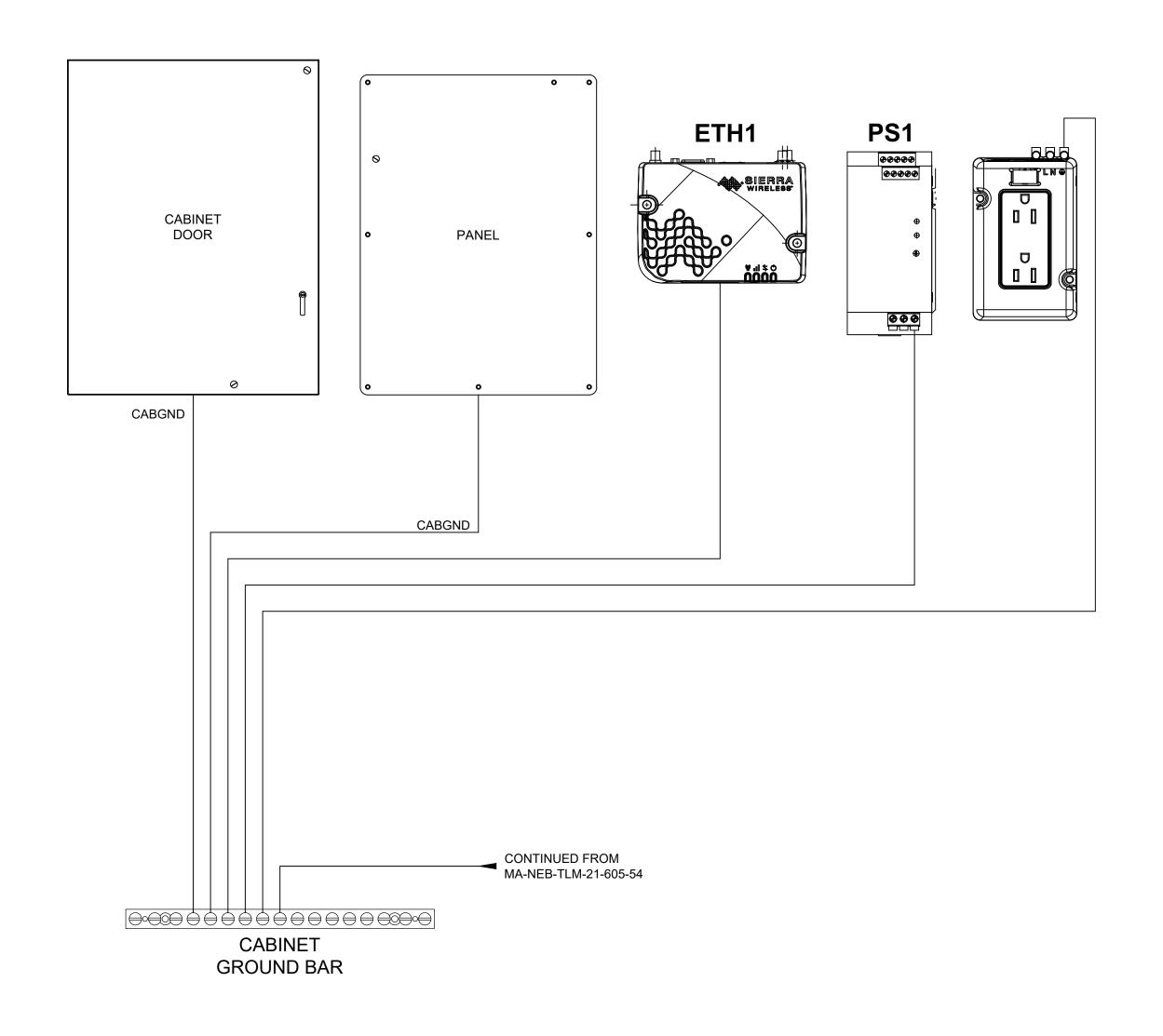


	2	REVISED AND ADDED	D TEXT		04/04/2022	WBH/TAN	
	1	1 CHANGED FUSES TO CIRCUIT BREAKERS			08/05/2021	WBH/TAN	
	0	AS-BUILT			04/09/2021 [)BF/MPL/EJP	
	No.		Description		Dw/Ck/Ap		
	Revision/Status						
	EVERS URCE						
	ENERGY						
2020 AS-BUILT END POINT TELEMETER CABINET							
	FOR POWER DROP, CELLULAR COMMUNICATION						
	24V DC POWER DISTRIBUTION						
_D VERIFY 1ENSIONS	SCALE: NTS SHEET 11 OF				1 OF 14		
DR TO PIPE		Drawn by / Date DBF / 04/09/21	Checked by / Date MPL / 04/09/21	Sheet	Number	Rev. No.	
BRICATION	ŀ	Approved by / Date EJP / 04/09/21	Filed: D-190-92.04.dwg	MA-NEB-TL	.M-21-605-56	2	

	FROM	То	CON
ITEM	FROM	То	CON
POWER			
P1	Utility Pole	Meter/Tele Cab	1-1/4", R

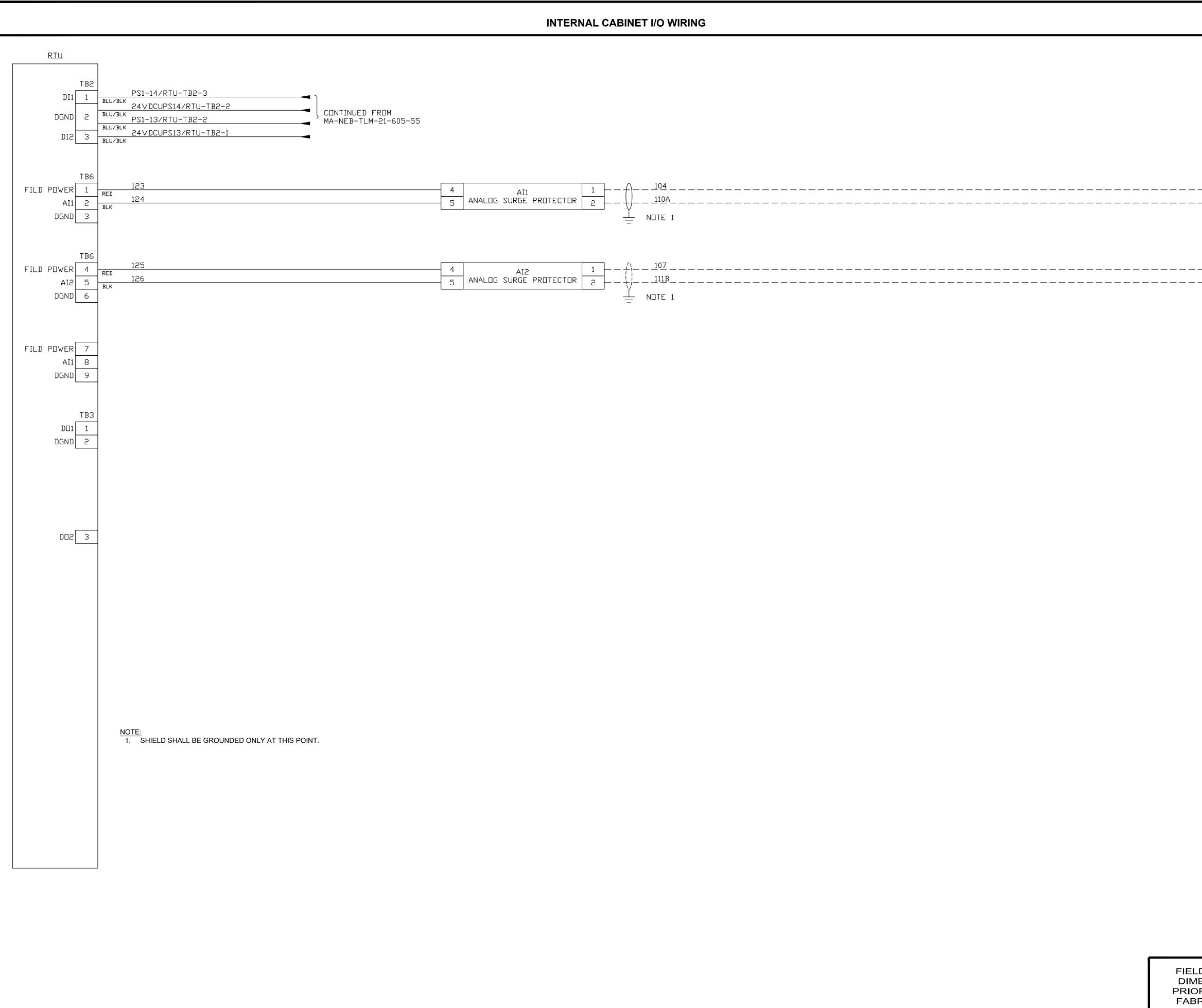
NOTE 5

NOTE 5: CAN BE TRANSITIONED TO PVC SCHEDULE 40 AFTER 6" ABOVE GROUND



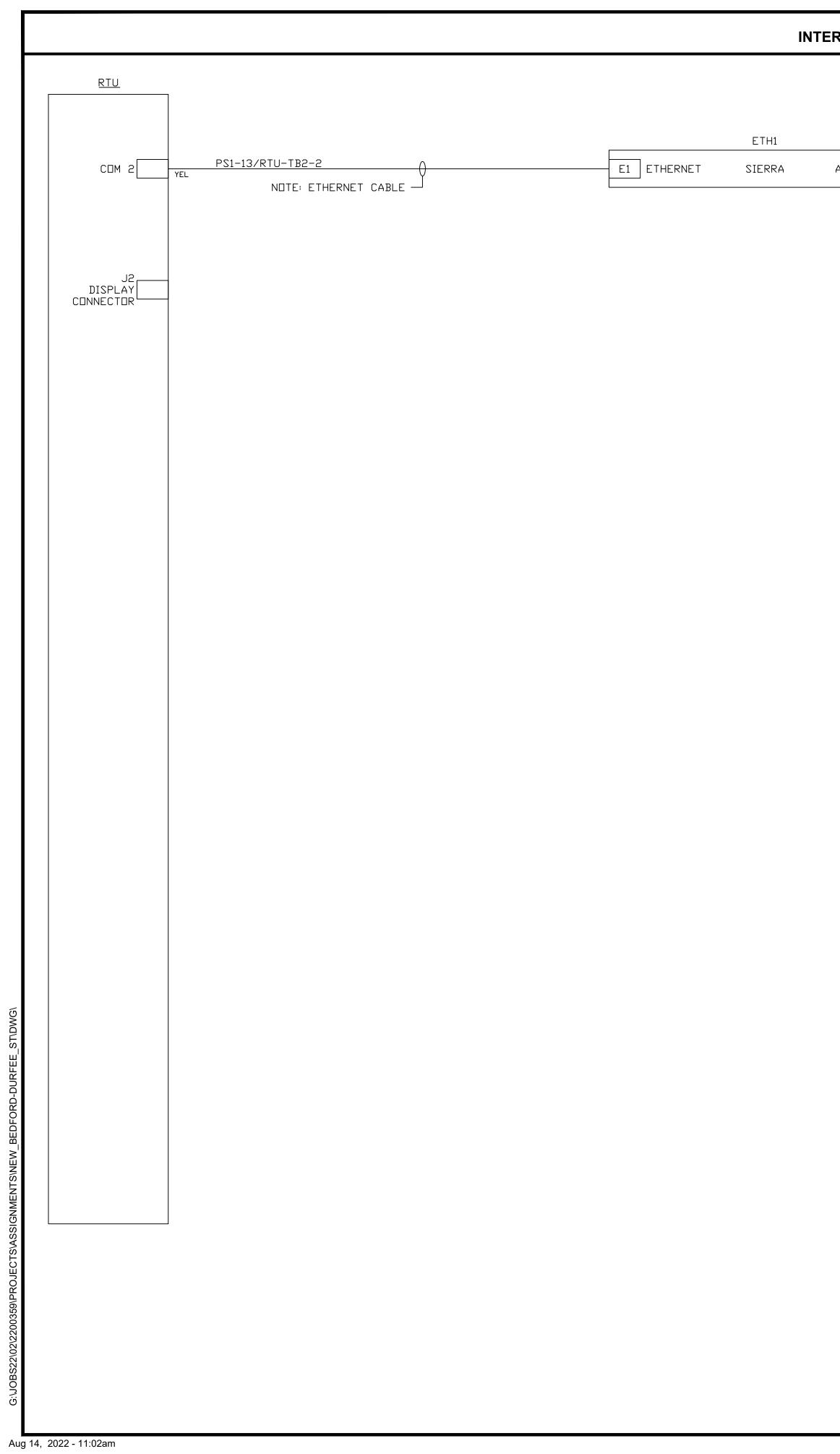
	MA-NEB-TLM-21-605	Eversource Gas End Point Tel	emetry Box					
	CONDUIT SCHEDULE / FILL	CALCULATION- Based on NFPA	A 70, 2020 Edition	ı				
	WIRE/CABLE	ТҮРЕ	MFG	BELDEN PN	COLOR CODE	OD(")	Area(Sq")	Ext Area(Sq"
						0.056.0.046	0.45.0.04	
", RMC/PVC	3-#6 AWG, 1-#8g	THWN-2,THHN	generic		Blk,Red,Wht,Grn	0.256,0.216	0.15,0.04	0.19
							NOTE 2	1.526
							40% Fill	0.610
							Actual Fill %	0.120

	2				02/08/22	WBH/TAN
	2				08/05/21	WBH/TAN
	0	AS-BUILT			04/09/21	DBF/MPL/EJP
	No. Description				Date	Dw/Ck/Ap
	Revision/Status					
	EVERS URCE					
	ENERGY					
	AS-BUILT END POINT TELEMETER CABINET					
	FOR POWER DROP, CELLULAR COMMUNICATION					
VERIFY	GROUNDING DETAIL & CONDUIT SCHEDULE					
NSIONS	SCALE: NTS SHEET 12 OF				2 OF 14	
TO PIPE		Drawn by / Date DBF / 04/09/21	Checked by / Date MPL / 04/09/21	Sheet I	Number	Rev. No.
CATION	A	Approved by / Date EJP / 04/09/21	Filed: D-190-92.04.dwg	MA-NEB-TL	M-21-605-57	′ 2



Aug 14, 2022 - 11:02am

				FIELD)
	RED + PT1 INL	.ET PRESSURE			
		ANSMITTER			
		ESSURE ANSMITTER			
)			
	LEGEN				
	FIE				
			-		
	2 REVISED DRAWING N 1 ADDED ANALOG SUF	NUMBER AND RTU LOOP DET	ſAIL	02/08/22 08/05/21	WBH/TAN WBH/TAN
	0 AS-BUILT No.	Description		08/09/21 04/09/21 Date	DBF/MPL/EJP
	AS-BUI	LT END POINT TELE	<u>ENERGY</u> METER CA		
_D VERIFY		ER DROP, CELLULAF RTU1 LOOP DE			
IENSIONS DR TO PIPE BRICATION	SCALE: NTS Drawn by / Date DBF / 04/09/21 Approved by / Date EJP / 04/09/21	Checked by / Date MPL / 04/09/21 Filed: D-190-92.04.dwg	Sheet MA-NEB-TL	Number	13 OF 14 Rev. No. 58 2
	ĖJP / 04/09/21				



INTERNAL CABINET I/O WIRING

ANTENNA A BLK ANTENNA

		FIELD		
		LEGEND		
		NECI		
		FIELD		
			00/05/0004	
	1REVISED NOTE0AS-BUILT		08/05/2021 04/09/21	WBH/TAN DBF/MPL/EJP
	No.	Description Revision/Statu	Date	Dw/Ck/Ap
		EVERS		
I	AS-BL		ENERGY	
		VER DROP, CELLULAF NETWORK DET	R COMMUNICATION	١
D VERIFY	SCALE: NTS		SHEET	14 OF 14
OR TO PIPE BRICATION	Drawn by / Date DBF / 04/09/21 Approved by / Date EJP / 04/09/21	Checked by / Date MPL / 04/09/21 Filed: D-190-92.04.dwg	Sheet Number MA-NEB-TLM-21-605-5	Rev. No. 9 1