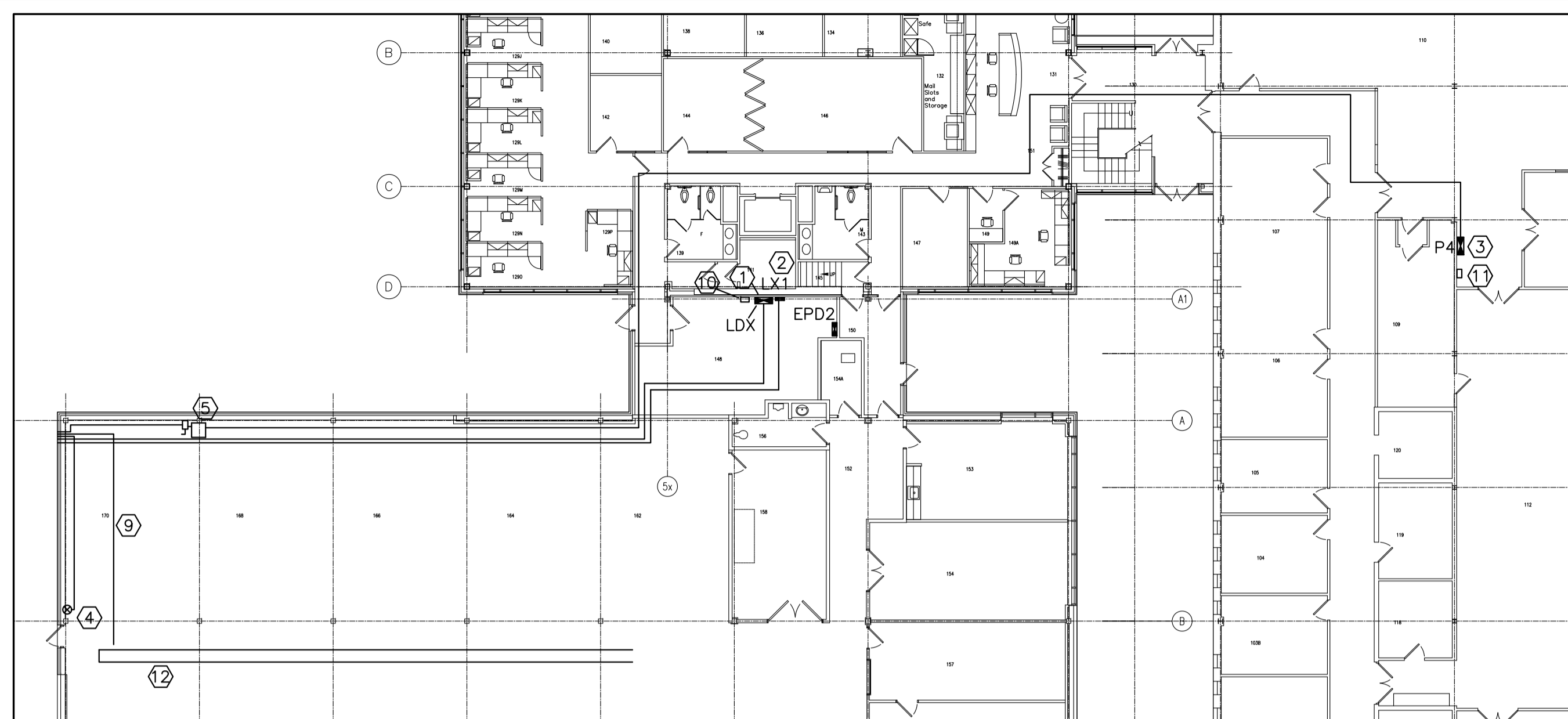
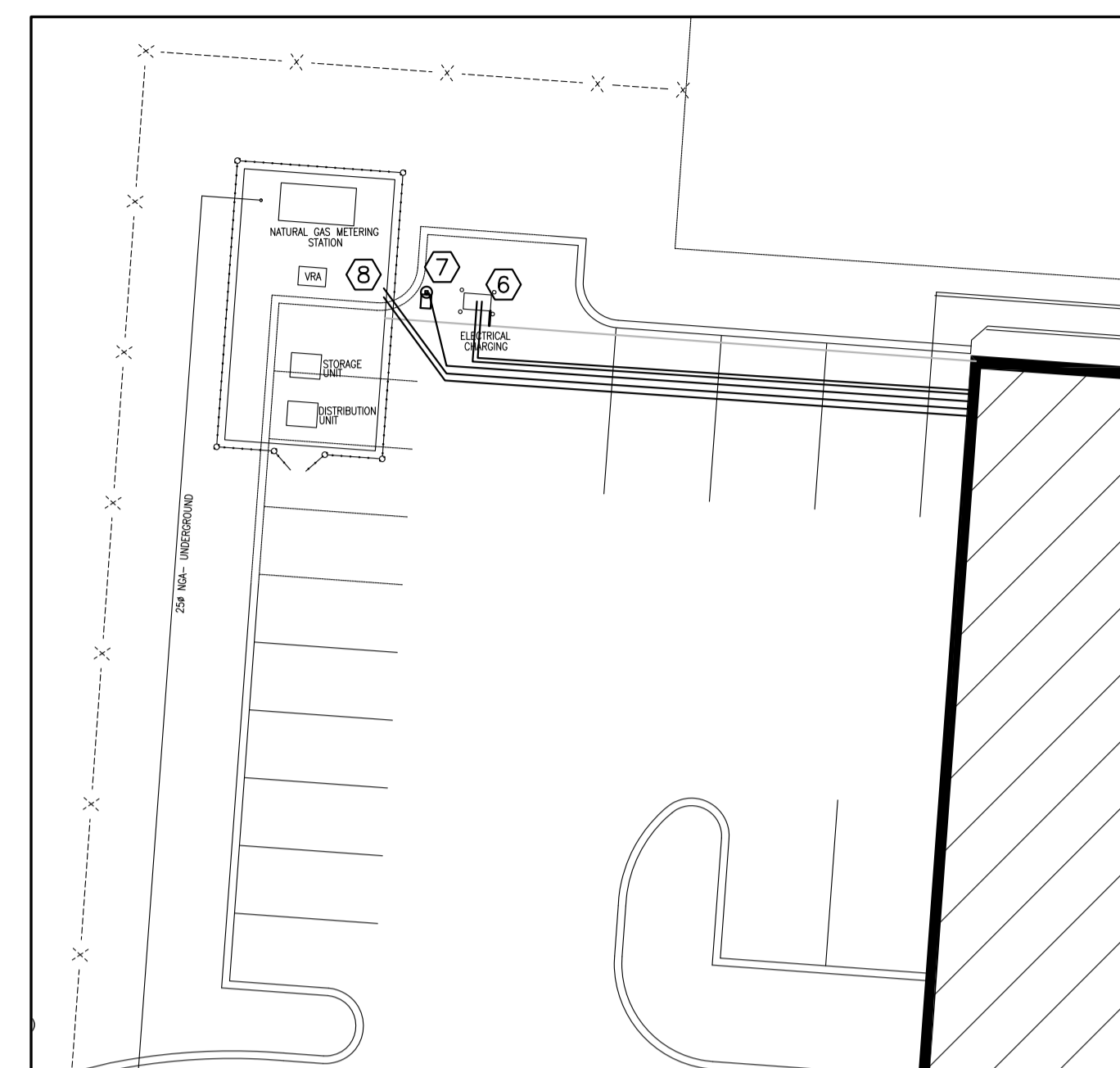


**GENERAL NOTES**

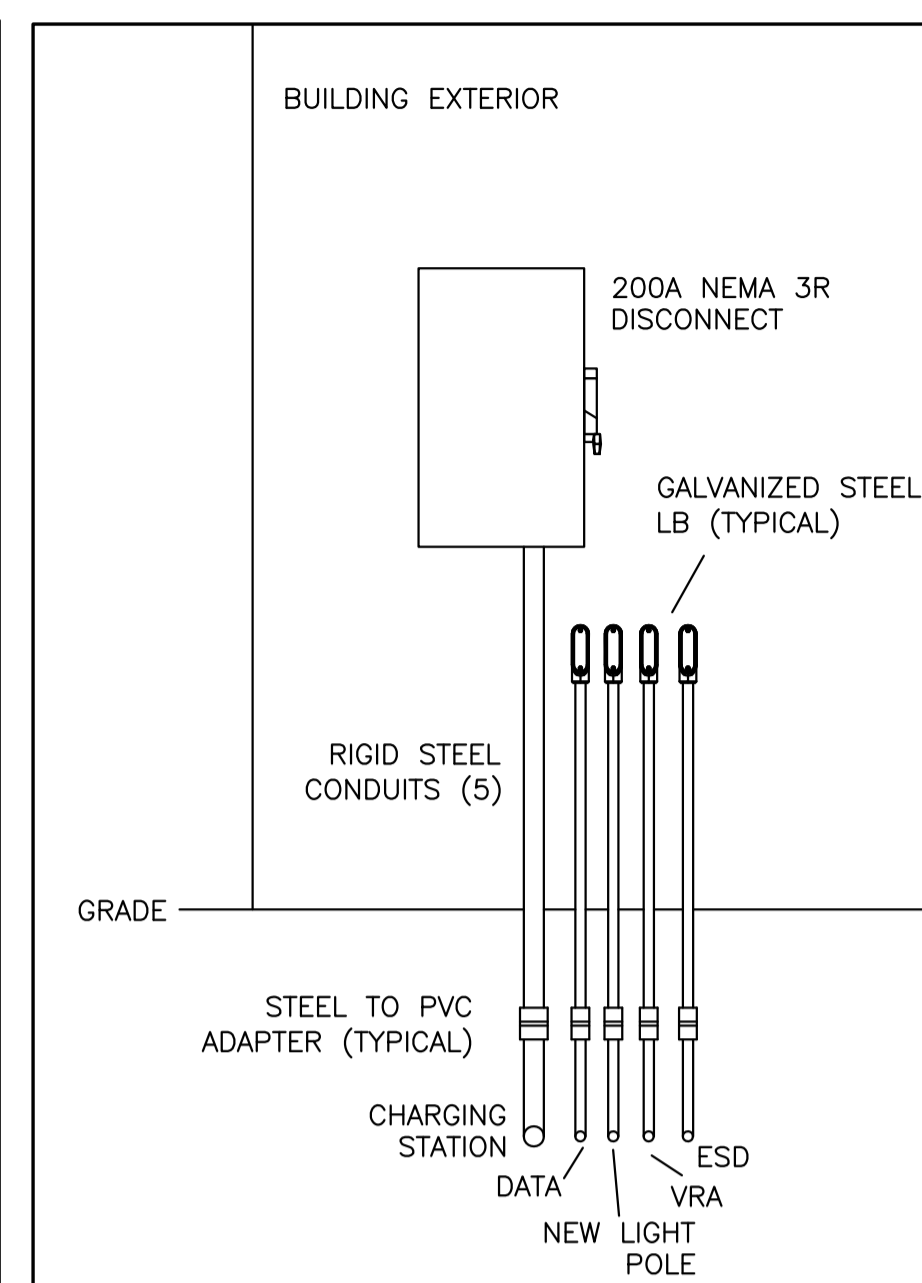
- A READ THIS DRAWING IN CONJUNCTION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS.
- B CONTRACTORS TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO DEMOLITION OR CONSTRUCTION AND REPORT ANY ERRORS OR OMISSIONS TO NRC DEPARTMENTAL REPRESENTATIVE.
- C CONTRACTORS MUST VISIT THE SITE & FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK.
- D PREVENT THE SPREAD OF DUST & DEBRIS BEYOND THE WORK AREA AND CLEAN ALL SURFACES AT COMPLETION.
- E MAKE GOOD ALL SURFACES AFFECTED BY THIS WORK.
- F COORDINATE ALL SHUTDOWNS WITH THE NRC DEPARTMENTAL REPRESENTATIVE.
- G FILL ALL HOLES, PATCH & PAINT ALL SURFACES IN CONTRACT AREA. COLOUR SCHEME TO MATCH EXISTING.
- H REMOVE MEANS REMOVE AND DISPOSE OF OFF SITE UNLESS OTHERWISE NOTED.
- I PROVIDE LABELS TO NEW DEVICES TO INDICATE POWER SOURCE. UPDATE PANEL SCHEDULES AFTER JOB COMPLETION.
- J REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR FINAL PLACEMENT OF LIGHT FIXTURES.
- K ALL WIRE TO BE IN EMT UNLESS OTHERWISE NOTED.



**1 POWER SOURCES INSIDE U-89**  
 E01 SCALE: 1:200



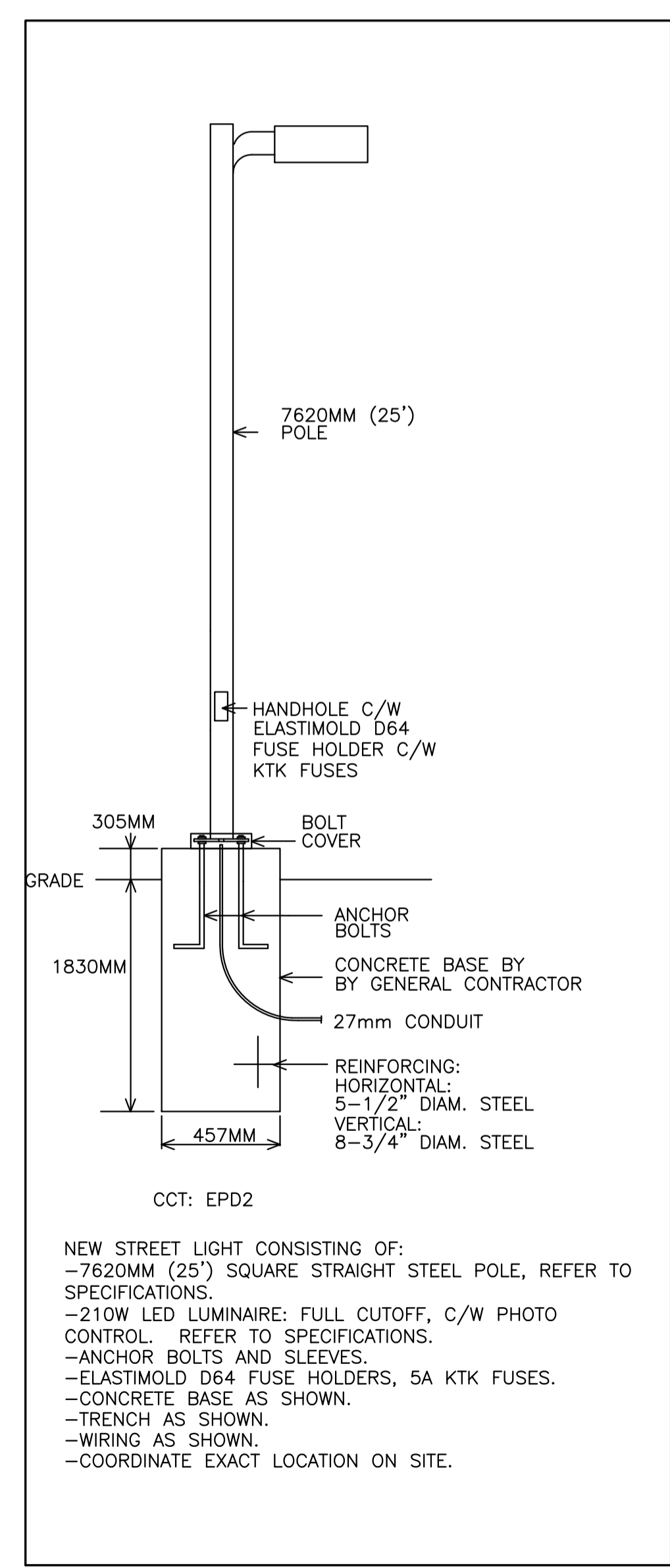
**2 ELECTRICAL SITE WORK**  
 E01 SCALE: 1:250



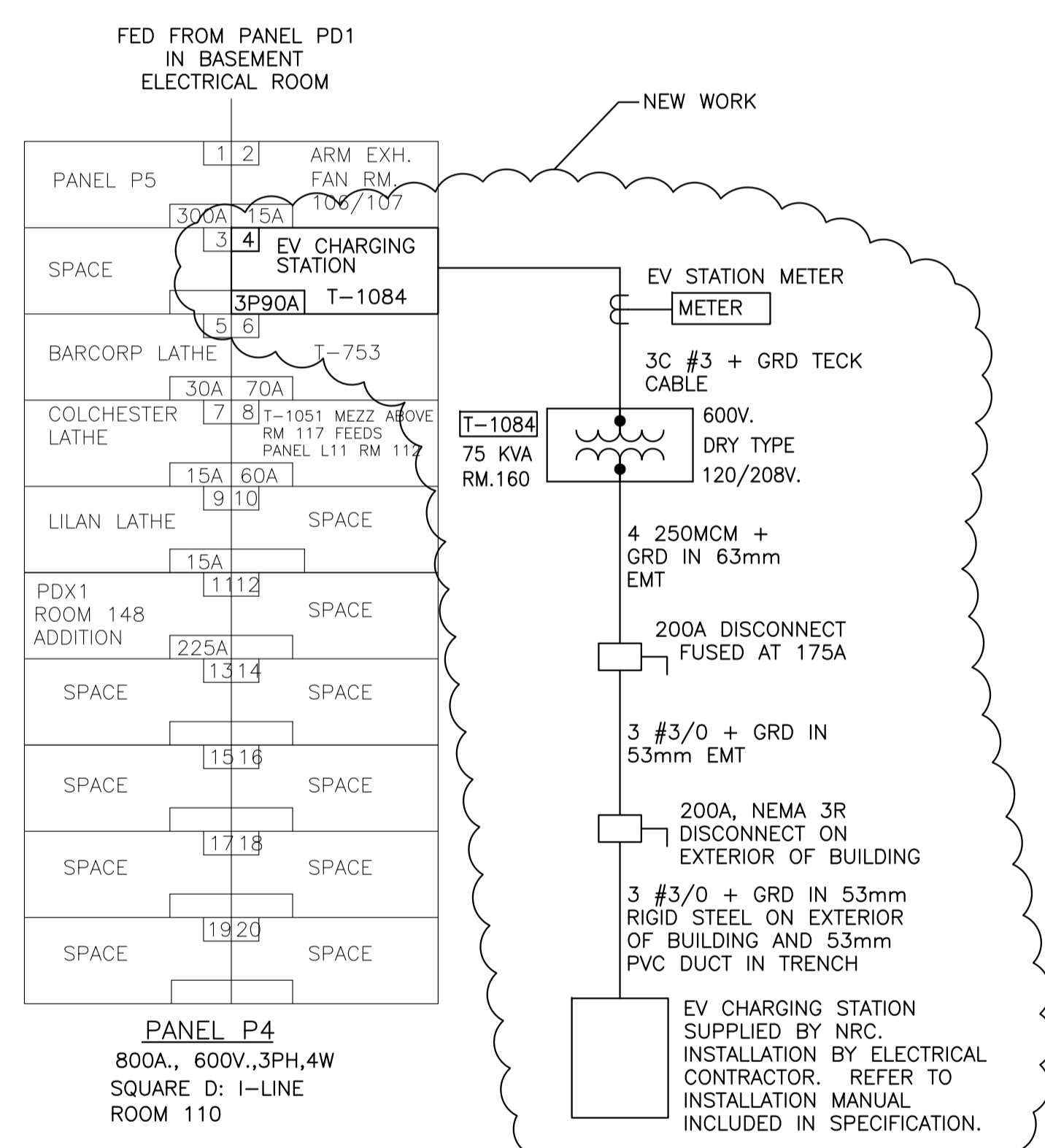
**3 EXTERIOR CONDUIT DETAIL**  
 E01 SCALE: N.T.S.

**DRAWING NOTES**

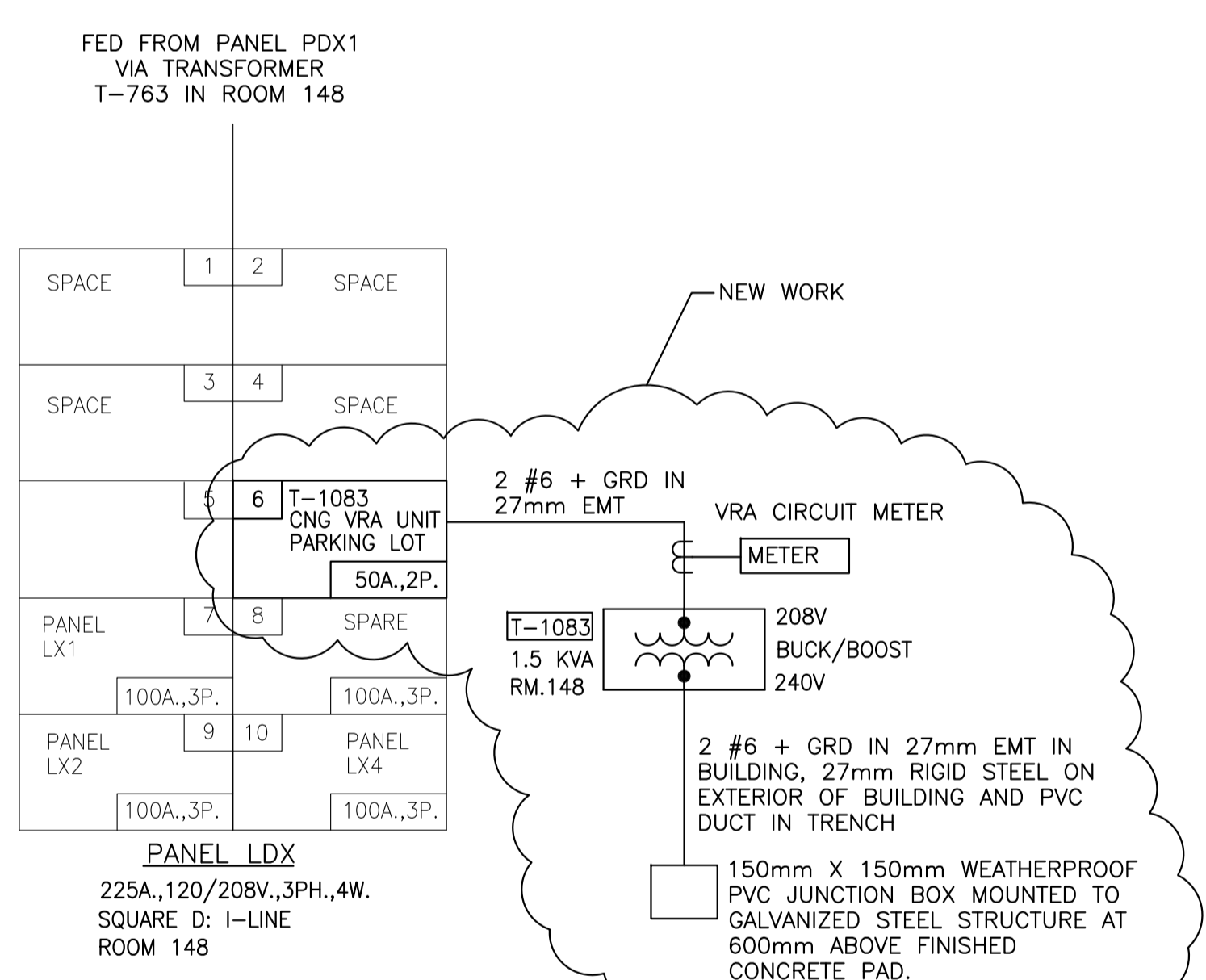
1. 240V CIRCUIT FOR VRA ROUGH-IN ORIGINATING FROM PANEL LDX. REFER TO SINGLELINE. TERMINATE IN 150MMX150MM WEATHERPROOF PVC JUNCTION BOX MOUNTED TO GALVANIZED STEEL STRUCTURE AT 600MM ABOVE FINISHED CONCRETE PAD. REFER TO DETAIL 2/E02.
2. 120V CIRCUIT FOR EMERGENCY SHUTDOWN DEVICE (ESD) ROUGH-IN ORIGINATING FROM PANEL LX1. REPLACE ONE EXISTING 1P15A BREAKER WITH TANDEM STYLE BREAKER AND CIRCUIT FROM THERE USING 2 #10 WIRE + GRD IN 27mm EMT ON INTERIOR OF BUILDING, RIGID STEEL ON EXTERIOR AND 27mm PVC CONDUIT UNDERGROUND. TERMINATE IN 150MMX150MM WEATHERPROOF PVC JUNCTION BOX MOUNTED TO GALVANIZED STEEL STRUCTURE AT 600MM ABOVE FINISHED CONCRETE PAD. REFER TO DETAIL 2/E02.
3. 208V, 3Ø POWER FOR ELECTRIC VEHICLE CHARGING STATION ORIGINATING IN PANEL P4. REFER TO SINGLELINE.
4. EXISTING 347V CIRCUIT FOR EXISTING STREET LIGHTS FED FROM EPD2 IN THIS JUNCTION BOX. NEW LIGHT POLE IS TO BE CIRCUIT FROM THE SAME CIRCUIT. SPICE INTO CIRCUIT IN THIS LOCATION AND RUN 2 #10 + GRD IN 27mm EMT TO GALVANIZED STEEL LB & CONDUIT AND THEN UNDERGROUND TO NEW LIGHT POLE USING 27mm PVC.
5. 75kVA TRANSFORMER LOCATED AT HIGH LEVEL AND FUSED DISCONNECT TO LEVEL 3 EV CHARGING STATION. REFER TO DETAIL 4/E02 FOR TRANSFORMER MOUNTING DETAILS.
6. CONCRETE PAD FOR ELECTRIC VEHICLE CHARGING STATION BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR TO ENSURE MOUNTING BOLTS AND CONDUIT FOR CHARGING STATION ARE LOCATED CORRECTLY, PER DETAIL 3/E02.
7. NEW LIGHT & POLE. CONCRETE BASE BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR TO ENSURE ANCHOR BOLTS AND CONDUIT ARE LOCATED CORRECTLY, PER THE DETAIL ON DRAWING E01.
8. ROUGH-INS FOR VRA AND ESD.
9. NEW 27mm CONDUIT. BEGIN RUN NEXT TO EXISTING CABLE TRAY. INSTALL BUSHING AND GROUND LUG ON THIS END. ROUTE TO CHARGING STATION AS SHOWN. EMT INSIDE BUILDING, RIGID STEEL ON EXTERIOR AND PVC IN TRENCH. INSTALL PULL CORD. REFER TO DETAIL 3/E01 FOR EXTERIOR ROUTING DETAIL.
10. MOUNT METER AND CTs FOR VRA CIRCUIT ON WALL NEAR PANEL LDX. METER TO MEASURE KWH. TO BE INSTALLED ON PRIMARY SIDE OF TRANSFORMER. LABEL AS "VRA METER". REFER TO SPECIFICATIONS FOR METER, CT AND ENCLOSURE DETAILS.
11. MOUNT METER AND CTs FOR EV CHARGING STATION CIRCUIT ON WALL NEAR PANEL P4. METER TO MEASURE KWH. TO BE INSTALLED ON PRIMARY SIDE OF TRANSFORMER. LABEL AS "EV CHARGING STATION METER". REFER TO SPECIFICATIONS FOR METER, CT AND ENCLOSURE DETAILS.
12. EXISTING CABLE TRAY.



**4 LIGHT POST DETAIL**  
 E01 SCALE: N.T.S.



**5 PARTIAL SINGLELINES**  
 E01 SCALE: N.T.S.



No.	Date	Revision	By:
1	28 04 2014	ADDENDUM #1	DIF
0	22 04 2014	ISSUED FOR TENDER	DIF

Date Printed	Date imprimée

o Verify all dimensions and site conditions and be responsible for same	A Detail no. No. du détail
o Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité	B Location drawing no. sur dessin no.
	C Drawing no. dessin no.

project	projet
<b>U-85- CNG FILLING AND ELECTRICAL CHARGING STATIONS</b>	
<b>AST CAMPUS</b>	
drawing	dessin
<b>ELECTRICAL PLANS AND DETAILS</b>	

designed	conçu	date	date
<b>DIF</b>		<b>MAR 2014</b>	
drawn	dessiné	scale	échelle
<b>DIF</b>		<b>AS NOTED</b>	
checked	vérifié	sheet	feuille
<b>C.Y.C.</b>		<b>E01</b>	<b>of/de 2</b>
approved	approuvé	W.O.no.	D.T.no.
<b>B.V.</b>		<b>A1-004334-11</b>	
dwg.no.	dessin no.		
<b>3903-E01</b>			