

4	ISSUED FOR BUILDING PERMIT	2010-06-01
3	ISSUED FOR TENDER	2010-05-07
2	ISSUED FOR 99% REVIEW	2010-04-30
1	ISSUED FOR 50% REVIEW	2010-04-09

No.	Description	Date
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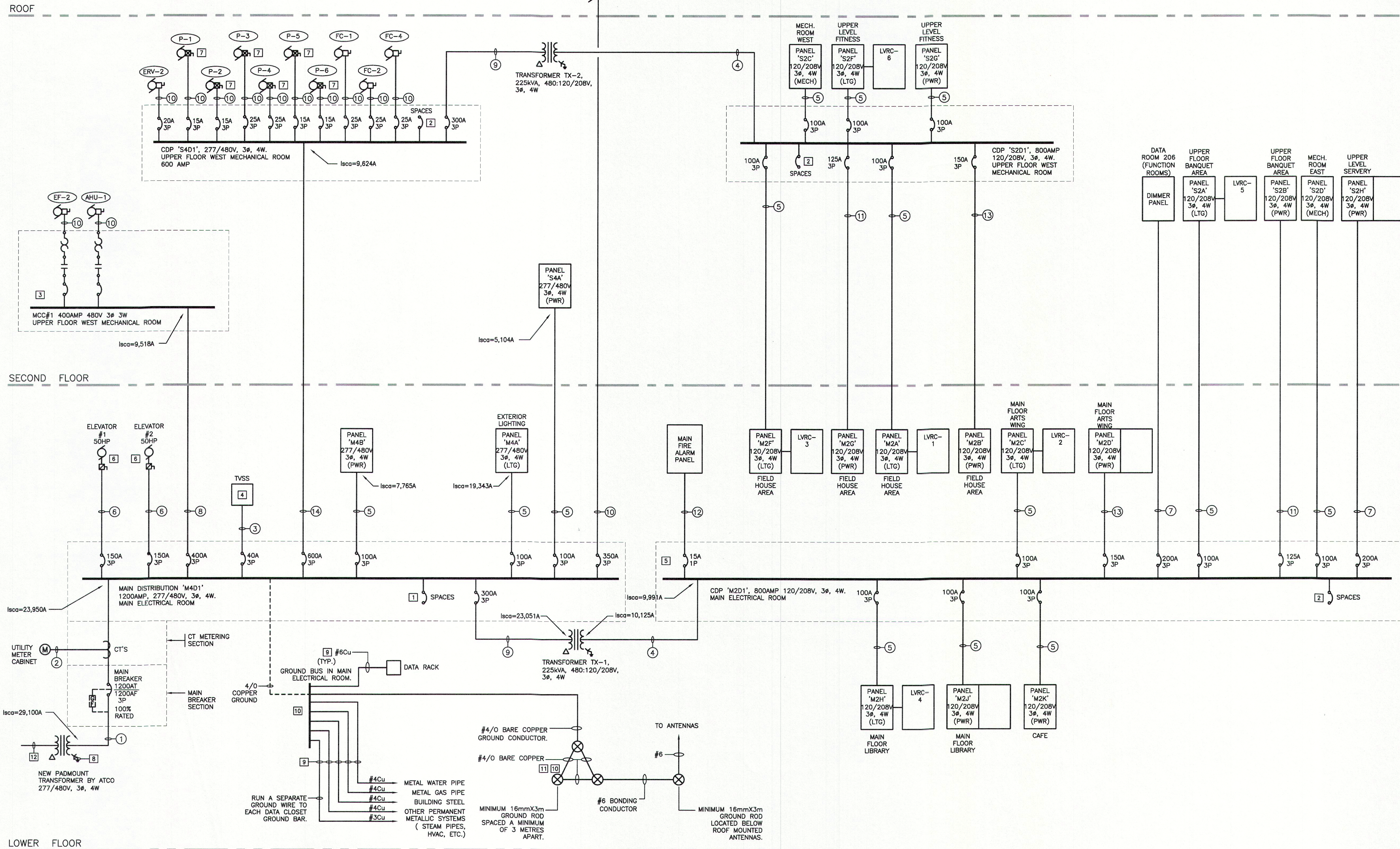
Drawing History	
Scale (Drawing Scale is Based on A1 Sheet Size)	Checked By
AS NOTED	

Project
BADLANDS COMMUNITY FACILITY

Drawing Title
SINGLE LINE DIAGRAM

Project Number
29613

Drawing Number
E701



1 SINGLE LINE DIAGRAM
E701 SCALE: NTS

- GENERAL NOTES:**
- GROUND RODS TO BE INSTALLED A MINIMUM OF 3 METERS AWAY FROM OTHER GROUND RODS.
 - GROUND RODS TO BE 21mm IN DIAMETER AND 3 METERS LONG AND COPPER CLAD. INSTALL BURNDY HYGROND COMPRESSION GROUNDING CONNECTORS.
 - INSTALL GROUND RODS A MINIMUM OF 305mm BELOW GRADE. - INSTALL ADDITIONAL GROUND RODS AS REQUIRED FOR LOCAL CONDITIONS.
 - ARRANGE WITH ATCO ELECTRIC TO PROVIDE ADEQUATELY SIZED PADMOUNT TRANSFORMER FOR 277/480V, 3Ø, 4W SECONDARY.
 - PROVIDE METER CABINET AND ARRANGE WITH ATCO ELECTRIC TO SUPPLY AND INSTALL METER AND INSTRUMENT TRANSFORMERS.
 - MINIMUM IC RATING OF MAIN DISTRIBUTION 'M4D1' TO BE 42,000AMPS RMS SYMMETRICAL. MINIMUM IC RATING OF PANEL 'M4A' AND COMPONENTS TO BE 22,000 AMPS RMS SYMMETRICAL. MIN. IC RATING OF CDP 'M2D1', TO BE 22,000 AMPS RMS SYMMETRICAL.
 - REFER TO MOTOR CONTROL SCHEDULES FOR INDIVIDUAL MOTOR FEEDER SIZES AND OVERCURRENT PROTECTION.
 - PROVIDE AND INSTALL ALL PULL BOXES AS REQUIRED.
 - ALL PANELS TO BE C/W PROTECTIVE DRIP SHIELDS.

REFERRAL NOTES:

- PROVIDE SPACE IN MAIN DISTRIBUTION 'M4D1' FOR THE FOLLOWING FUTURE BREAKERS: 1-800-3P, 4-400A 3P, 2-225A 3P, 6-100A 3P FRAME BREAKERS
- PROVIDE SPACE IN CDP FOR THE FOLLOWING FUTURE BREAKERS: 1-400A 3P, 2-225A 3P, 6-100A 3P FRAME BREAKERS.
- PROVIDE SPACE IN MCC AS SHOWN IN MCC ELEVATION DETAILS ON DWG E702.
- SUPPLY AND INSTALL TVSS FILTER AS DESCRIBED. REFER TO SPECIFICATIONS SECTION 26 24 21.
- BREAKER TO BE PAINTED RED AND C/W LOCK ON DEVICE.
- CONFIRM EXACT ELEVATOR SIZE AND REQUIREMENTS WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN.
- VFD TO BE SUPPLIED DIV. 23, WIRED AND INSTALLED BY DIV. 26. SUPPLY ALL CONDUIT AND WIRE.
- ATCO ELECTRIC TO PROVIDE AND INSTALL GROUNDING SYSTEM AT TRANSFORMER AS PER LATEST EDITION OF CANADIAN ELECTRICAL CODE AND AS PER ATCO REQUIREMENTS. COORDINATE WITH ATCO ELECTRIC.
- GROUND WIRES TO BE INSTALLED WITH GREEN JACKET.
- ALL MAIN GROUND CONDUCTORS ARE TO BE TERMINATED WITH CADWELD CONNECTORS TO GROUND BUSES. SECONDARY GROUND CONDUCTORS MAY BE TERMINATED WITH THREE HOLE GRIMP-ON CONNECTORS.
- INSTALL ADDITIONAL GROUND RODS AS REQUIRED TO OBTAIN A VALUE OF AT LEAST 5 OHMS GROUND RESISTANCE.
- NEW PRIMARY FEEDERS SUPPLIED & INSTALLED BY ATCO ELECTRIC

CONDUIT TAG LEGEND

- 3 SETS OF 4#600MCM Cu. EACH IN 102mm CONDUIT AND 1-102mm CONDUIT C/W PULLWIRE FOR SPARE.
- 35mm CONDUIT.
- 21mm CONDUIT C/W 4#10 Cu & 1#10 GRD.
- 2 SETS OF 4#400MCM Cu & 1#3/0 GRD. EACH IN 78mm CONDUIT.
- 35mm CONDUIT C/W 4#3 Cu & 1#8 GRD.
- 27mm CONDUIT C/W 3#4 Cu & 1#6 GRD.
- 53mm CONDUIT C/W 4#3/0 Cu & 1#6 GRD.
- 102mm CONDUIT C/W 4#500MCM Cu & 1#2/0 GRD.
- 63mm CONDUIT C/W 3#300MCM Cu & 1#3/0 GRD.
- REFER TO MOTOR CONTROL SCHEDULE FOR FEEDER SIZES OF MOTORS.
- 41mm CONDUIT C/W 4#1 Cu & 1#6 GRD.
- 21mm CONDUIT C/W 2#12 Cu & 1#12 GRD.
- 53mm CONDUIT C/W 4#1/0 Cu & 1#8 GRD.
- 2 SETS OF 4#300MCM Cu & 1#3/0 GRD. EACH IN 78mm CONDUIT.