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ORIGINAL SHEET (NO)

Client/Project Logo



Keyplans

Notes

10	RF#7	JC	TF	2024.12.03
5	ISSUED FOR TENDER	CS	TF	2024.09.30
4	ISSUED FOR CLASS A PRICING SUBMISSION	JC	TF	2024.03.15
3	ISSUED FOR RFP SUBMISSION	JC	TF	2024.03.09
2	ISSUED FOR RFP SUBMISSION	BS	TF	2023.12.25
1	ISSUED FOR DESIGN DEVELOPMENT	BS	TF	2022.12.16

Issued & Revision		By	App'd	YYYYMMDD
		ED, JC	BS, JC	2024.05.06
		Dwn	Dign	Chks

Perm/Secd

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CONSTRUCTION**

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Client/Project
Yukon University
Polaris Project

Title
MECHANICAL EQUIPMENT SCHEDULE

Project No.
144214760

Revision

10

Scale

Drawing No.

E701

MECHANICAL EQUIPMENT SCHEDULE															NOTES
EQUIPMENT I.D.	UNIT DESCRIPTION	Panel	Circuit Number	VOLTS (V)	Φ	Hz	HP	INDIVIDUAL FLA (A)	PACKAGE/ HEATER/OTHER WATTS	PACKAGE/ GROUPED MOTOR FEEDER MCA (A)	MOCF (A)	POWER SOURCE TYPE	BREAKER SIZE	CONDUCTOR SIZE	
				120		0			0 W						
AIR HANDLING UNIT SCHEDULE															
FAMU-1	MAKE-UP AIR UNIT - DUCTED FUME HOODS	2PSE	79,81	208	1	60	1.7hp	5.5	1144 W	7.0	15	STANDBY	15 A	2P12, 1M12S	21
CHILLER SCHEDULE															
CH-1	AIR-COOLED CHILLER	601M	1	600	3	60	1.7hp	5.5	0 W	42.0	50	STANDBY	50 A	3M6, 1M10S	27 (2) 3161KW - CHILLERS TO BE INTERLOCKED WITH BOILER SYSTEM. IF BOILER IS ON CHILLER IS OFF.
CH-2	AIR-COOLED CHILLER	601M	3	600	3	60	1.7hp	5.5	0 W	42.0	50	STANDBY	50 A	3M6, 1M10S	27 (2) 3161KW - CHILLERS TO BE INTERLOCKED WITH BOILER SYSTEM. IF BOILER IS ON CHILLER IS OFF.
ELECTRIC BOILER SCHEDULE															
B-1	ELECTRIC BACKUP BOILER	602E	4	600	3	60	1.7hp	5.5	100000 W	110	30	STANDBY	125 A	4M1, 1M6S	53 REFER TO SINGLE LINE DIAGRAM
B-2	ELECTRIC BACKUP BOILER	602E	5	600	3	60	1.7hp	5.5	100000 W	110	30	STANDBY	125 A	4M1, 1M6S	53 REFER TO SINGLE LINE DIAGRAM
ELECTRIC DOMESTIC WATER HEATER SCHEDULE															
DHW-1	ELECTRIC DHW HEATER (LABS)	2PSE	40,47.49	208	3	60	1.7hp	5.5	6000 W	10.0	20	STANDBY	20 A	2P12, 1M12S	21
DHW-2	ELECTRIC DHW HEATER (LABS)	2P1M	51.53.55	208	3	60	1.7hp	5.5	6000 W	10.0	20	STANDBY	20 A	2P12, 1M12S	21
DHW-3	ELECTRIC DHW HEATER (WC/UA)	2P1M	4.4.8	208	3	60	1.7hp	5.5	1500 W	10.0	20	NORMAL	15 A	2P12, 1M12S	21
DHW-4	ELECTRIC DHW HEATER (WC/UA)	2P1M	10.12.14	208	3	60	1.7hp	5.5	1500 W	10.0	20	NORMAL	15 A	2P12, 1M12S	21
DHW-5	ELECTRIC DHW HEATER (WC/UA)	2P1M	16.16.20	208	3	60	1.7hp	5.5	1500 W	10.0	20	NORMAL	15 A	2P12, 1M12S	21
DHW-6	ELECTRIC DHW HEATER (WC/UA)	2P1M	22.24.26	208	3	60	1.7hp	5.5	1500 W	10.0	20	NORMAL	15 A	2P12, 1M12S	21
DHW-7	ELECTRIC DHW HEATER (CAFE)	2P1M	28.30.32	208	3	60	1.7hp	5.5	1500 W	10.0	20	NORMAL	15 A	2P12, 1M12S	21
ELECTRONIC TRAP SEAL PRIMER SCHEDULE															
TSP-1	TRAP SEAL PRIMER	2P1M	44	120	1	60	1.7hp	5.5	0 W	10.0	20	NORMAL	20 A	2P12, 1M12S	21
TSP-2	TRAP SEAL PRIMER	2P1M	44	120	1	60	1.7hp	5.5	0 W	10.0	20	NORMAL	20 A	2P12, 1M12S	21
TSP-3	TRAP SEAL PRIMER	2P1M	44	120	1	60	1.7hp	5.5	0 W	10.0	20	NORMAL	20 A	2P12, 1M12S	21
TSP-4	TRAP SEAL PRIMER	2P1M	44	120	1	60	1.7hp	5.5	0 W	10.0	20	NORMAL	20 A	2P12, 1M12S	21
TSP-5	TRAP SEAL PRIMER	2P1M	44	120	1	60	1.7hp	5.5	0 W	10.0	20	NORMAL	20 A	2P12, 1M12S	21
ENERGY & HEAT RECOVERY UNIT SCHEDULE															
ERV-1	ENERGY RECOVERY VENTILATION UNIT	601M	2	600	3	60	1.7hp	5.5	17867 W	17.0	30	STANDBY	30 A	3P10, 1M10S	21
ERV-2	ENERGY RECOVERY VENTILATION UNIT	601M	4	600	3	60	1.7hp	5.5	17867 W	17.0	30	STANDBY	30 A	3P10, 1M10S	21
ERV-3	ENERGY RECOVERY VENTILATION UNIT	2P1M	46.48	208	1	60	1.7hp	5.5	2198 W	6.5	15	STANDBY	15 A	2P12, 1M12S	21
FAN COOL SCHEDULE															
FC-1	FANCOOL	2PSE	127.129	208	1	60	1.5hp	11.0	3182 W	10.0	20	STANDBY	20 A	2P12, 1M12S	21
FC-2	FANCOOL	2PSE	131.133	208	1	60	1.5hp	11.0	3182 W	10.0	20	STANDBY	20 A	2P12, 1M12S	21
FC-3	FANCOOL	2PSE	135.137	208	1	60	1.5hp	8.8	2247 W	10.0	20	STANDBY	15 A	2P12, 1M12S	21
FC-4	FANCOOL	2PSE	139	120	1	60	0.5hp	7.2	864 W	10.0	20	STANDBY	15 A	2P12, 1M12S	21
FC-5	FANCOOL	2PSE	2	120	1	60	0.5hp	9.8	1176 W	10.0	20	STANDBY	20 A	2P12, 1M12S	21
FC-6	FANCOOL	2PSE	4	120	1	60	0.5hp	9.8	1176 W	10.0	20	STANDBY	20 A	2P12, 1M12S	21
FC-7	FANCOOL	2PSE	6	120	1	60	0.5hp	9.8	1176 W	10.0	20	STANDBY	20 A	2P12, 1M12S	21
FC-8	FANCOOL	2PSE	8	120	1	60	0.5hp	9.8	1176 W	10.0	20	STANDBY	20 A	2P12, 1M12S	21
FC-9	FANCOOL	2PSE	10	120	1	60	0.5hp	9.8	1176 W	10.0	20	STANDBY	20 A	2P12, 1M12S	21
FC-10	FANCOOL	2PSE	12	120	1	60	0.5hp	9.8	1176 W	10.0	20	STANDBY	20 A	2P12, 1M12S	21
FC-11	FANCOOL	2PSE	14	120	1	60	0.5hp	9.8	1176 W	10.0	20	STANDBY	20 A	2P12, 1M12S	21
FC-12	FANCOOL	2PSE	16.16	208	1	60	1.5hp	8.8	2247 W	10.0	20	STANDBY	15 A	2P12, 1M12S	21
FC-13	FANCOOL	2PSE	18.20	208	1	60	1.5hp	8.8	2247 W	10.0	20	STANDBY	15 A	2P12, 1M12S	21
FC-14	FANCOOL	2PSE	20.24	208	1	60	1.5hp	8.8	2247 W	10.0	20	STANDBY	15 A	2P12, 1M12S	21
FC-15	FANCOOL	2PSE	26.28	208	1	60	1.5hp	8.8	2247 W	10.0	20	STANDBY	15 A	2P12, 1M12S	21
FC-16	FANCOOL	2PSE	30	120	1	60	0.5hp	9.8	1176 W	10.0	20	STANDBY	20 A	2P12, 1M12S	21
FC-17	FANCOOL	2PSE	32	120	1	60	0.5hp	9.8	1176 W	10.0	20	STANDBY	20 A	2P12, 1M12S	21
FC-18	FANCOOL	2PSE	34	120	1	60	0.5hp	7.2	864 W	10.0	20	STANDBY	15 A	2P12, 1M12S	21
FC-19	FANCOOL	2PSE	36	120	1	60	0.5hp	9.8	1176 W	10.0	20	STANDBY	20 A	2P12, 1M12S	21
FC-20	FANCOOL	2PSE	38	120	1	60	0.5hp	9.8	1176 W	10.0	20	STANDBY	20 A	2P12, 1M12S	21
FC-21	FANCOOL	2PSE	40.42	208	1	60	1.5hp	8.8	2247 W	10.0	20	STANDBY	15 A	2P12, 1M12S	21
FC-22	FANCOOL	2PSE	44	120	1	60	0.5hp	9.8	1176 W	10.0	20	STANDBY	20 A	2P12, 1M12S	21
FC-23	FANCOOL	2PSE	46.48	208	1	60	1.5hp	8.8	2247 W	10.0	20	STANDBY	15 A	2P12, 1M12S	21
FC-24	FANCOOL	2PSE	50	120	1	60	0.5hp	9.8	1176 W	10.0	20	STANDBY	20 A	2P12, 1M12S	21
FC-25	FANCOOL	2PSE	52	120	1	60	0.5hp	9.8	1176 W	10.0	20	STANDBY	20 A	2P12, 1M12S	21
FC-26	FANCOOL	2PSE	54	120	1	60	0.5hp	9.8	1176 W	10.0	20	STANDBY	20 A	2P12, 1M12S	21
FC-27	FANCOOL	2PSE	56	120	1	60	0.5hp	9.8	1176 W	10.0	20	STANDBY	20 A	2P12, 1M12S	21
FC-28	FANCOOL	2PSE	58	120	1	60	0.5hp	7.2	864 W	10.0	20	STANDBY	15 A	2P12, 1M12S	21
FC-29	FANCOOL	2PSE	60.62	208	1	60	0.5hp	8.8	2247 W	10.0	20	STANDBY	15 A	2P12, 1M12S	21
FC-30	FANCOOL	2PSE	64.66	208	1	60	0.5hp	8.8	2247 W	10.0	20	STANDBY	15 A	2P12, 1M12S	21
FAN SCHEDULE															
F-1	COOLING FAN - MED ROOM	2PSE	123	120	1	60	0.5hp	5.8	590 W	10.0	20	STANDBY	15 A	2P12, 1M12S	21
F-2	COOLING FAN - MED ROOM	2PSE	125	120	1	60	0.1hp	0.0	590 W	10.0	20	STANDBY	15 A	2P12, 1M12S	21
F-3	EXHAUST FAN - SMOKING	2P1M	34	120	1	60	0.1hp	0.0	600 W	10.0	20	NORMAL	15 A	2P12, 1M12S	21
F-4	EXHAUST FAN - SMOKING	2P1M	36	120	1	60	0.1hp	0.0	600 W	10.0	20	NORMAL	15 A	2P12, 1M12S	21
F-5	EXHAUST FAN - SMOKING	2P1M	38	120	1	60	0.1hp	0.0	600 W	10.0	20	NORMAL	15 A	2P12, 1M12S	21
F-6	EXHAUST FAN - SMOKING	2P1M	40	120	1	60	0.1hp	0.0	600 W	10.0	20	NORMAL	15 A	2P12, 1M12S	21
F-7	EXHAUST FAN - SMOKING	2P1M	42	120	1	60	0.1hp	0.0	600 W	10.0	20	NORMAL	15 A	2P12, 1M12S	21
F-8	EXHAUST FAN - SMOKING	2P1M	44	120	1	60	0.1hp	0.0	600 W	10.0	20	NORMAL	15 A	2P12, 1M12S	21
F-9	EXHAUST FAN - SMOKING	2P1M	46	120	1	60	0.1hp	0.0	600 W	10.0	20	NORMAL	15 A	2P12, 1M12S	21
F-10	EXHAUST FAN - SMOKING	2P1M	48	120	1	60	0.1hp	0.0	600 W	10.0	20	NORMAL	15 A	2P12, 1M12S	21
F-11	EXHAUST FAN - SMOKING	2P1M	50	120	1	60	0.1hp	0.0	600 W	10.0	20	NORMAL	15 A	2P12, 1M12S	21
F-12	EXHAUST FAN - SMOKING	2P1M	52	120	1	60	0.1hp	0.0	600 W	10.0	20	NORMAL	15 A	2P12, 1M12S	21
F-13	EXHAUST FAN - SMOKING	2P1M	54	120	1	60	0.1hp	0.0	600 W	10.0	20	NORMAL	15 A	2P12, 1M12S	21
F-14	EXHAUST FAN - SMOKING	2P1M	56	120	1	60	0.1hp	0.0	600 W	10.0	20	NORMAL	15 A	2P12, 1M12S	21
F-15	EXHAUST FAN - SMOKING	2P1M	58	120	1										



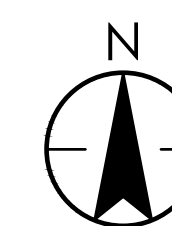
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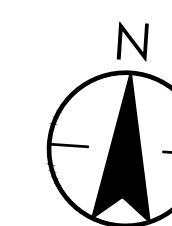
Consultants

Legend

LOCATION FOR NEW
COLLEGE POWER
SUPPLY UPGRADE



CONSTRUCTION
NORTH



TRUE
NORTH

Record Drawing

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RECORD DRAWING

Client/Project

GOVERNMENT OF YUKON
PROPERTY MANAGEMENT DIVISION

YUKON COLLEGE
POWER SUPPLY UPGRADE
WHITEHORSE, Y.T.

Title

SITE PLAN - ELECTRICAL

Project No.
144902616

Scale
AS SHOWN

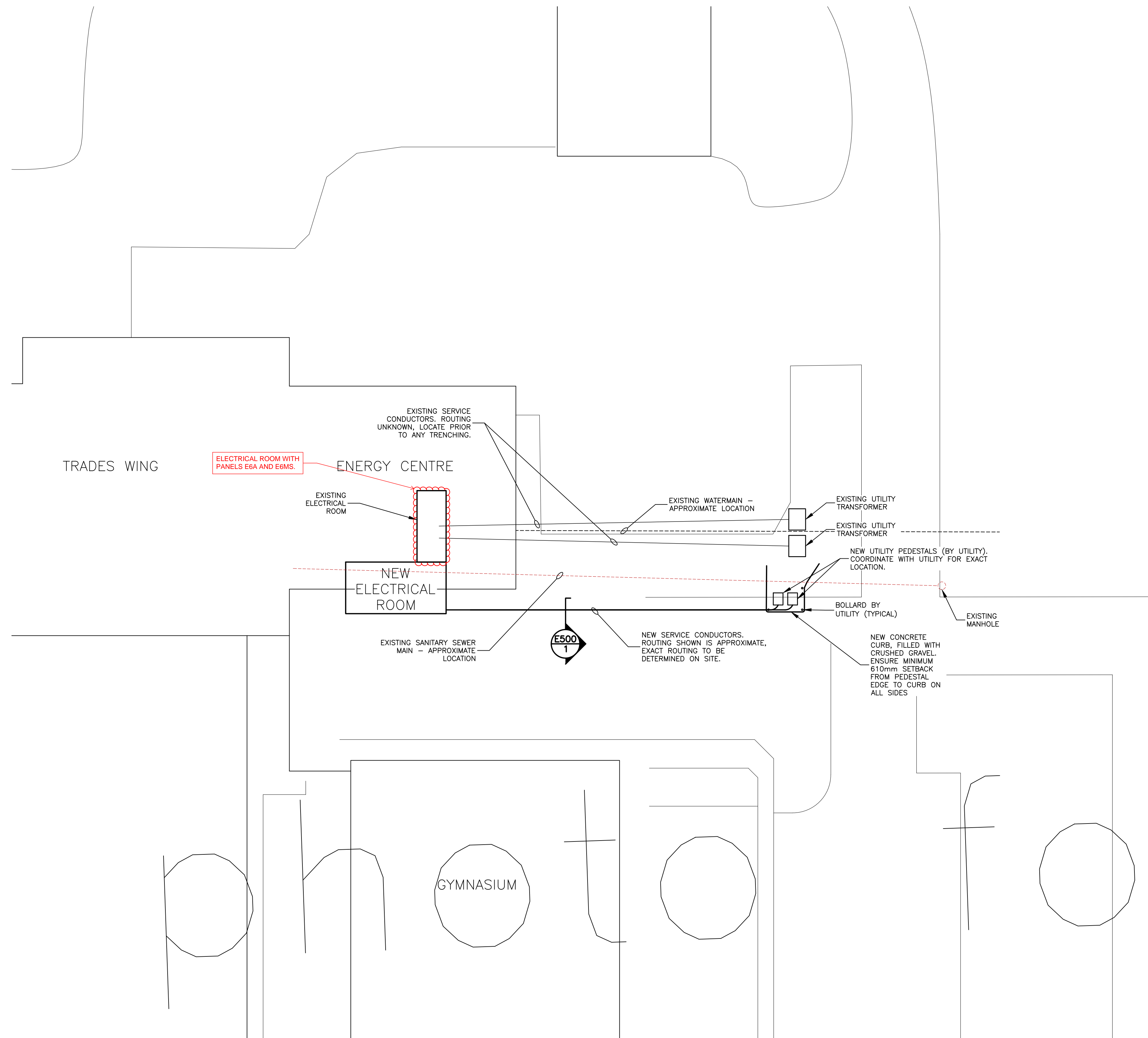
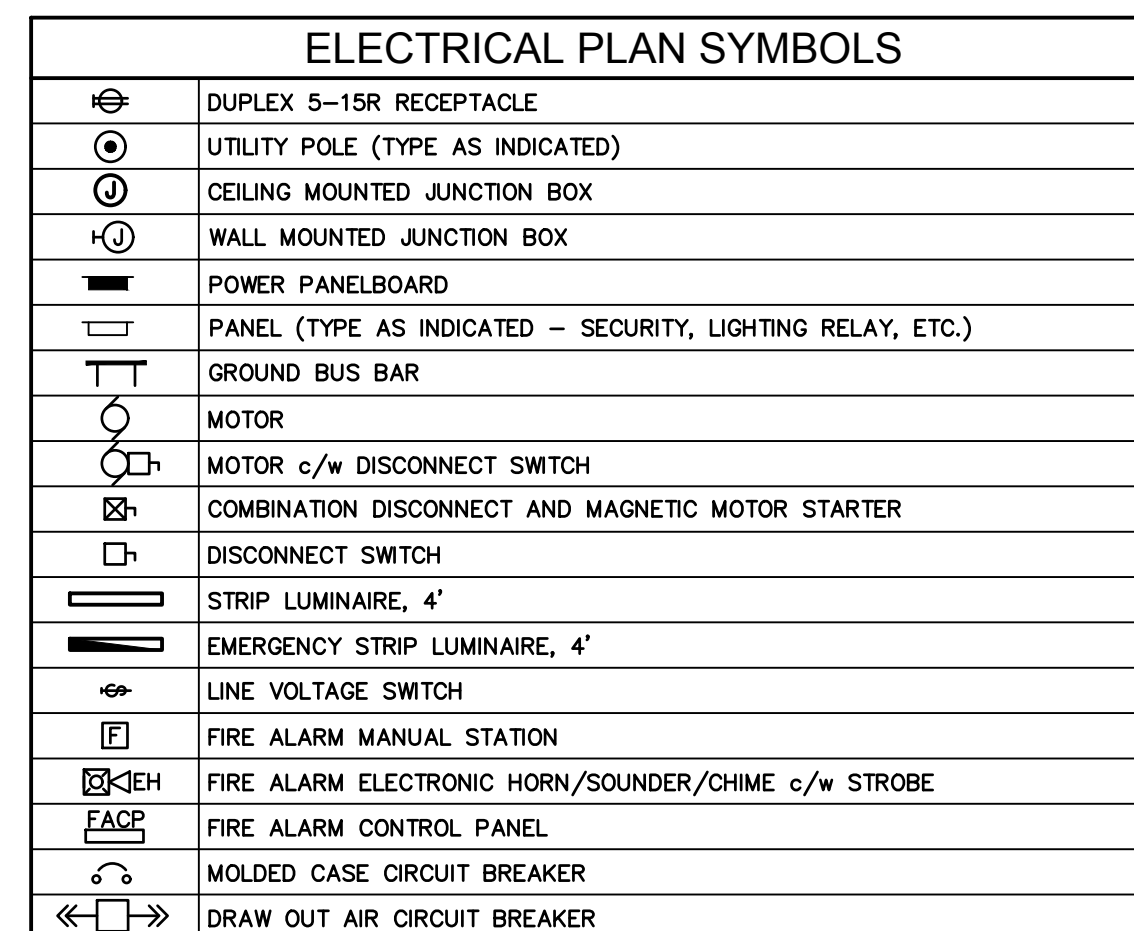
Drawing No.

Sheet

Revision

E100

1 of 7



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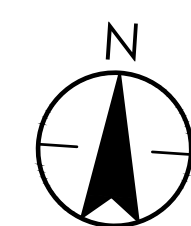
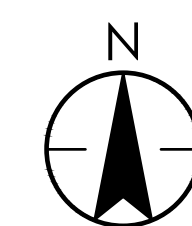
1 SITE PLAN - ELECTRICAL
E100 1:250



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Legend



CONSTRUCTION
NORTH

TRUE
NORTH

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RECORD DRAWING

YUKON COLLEGE
POWER SUPPLY UPGRADE
WHITEHORSE, Y.T.

ELECTRICAL PLAN

Project No.
144902616

Scale
AS SHOWN

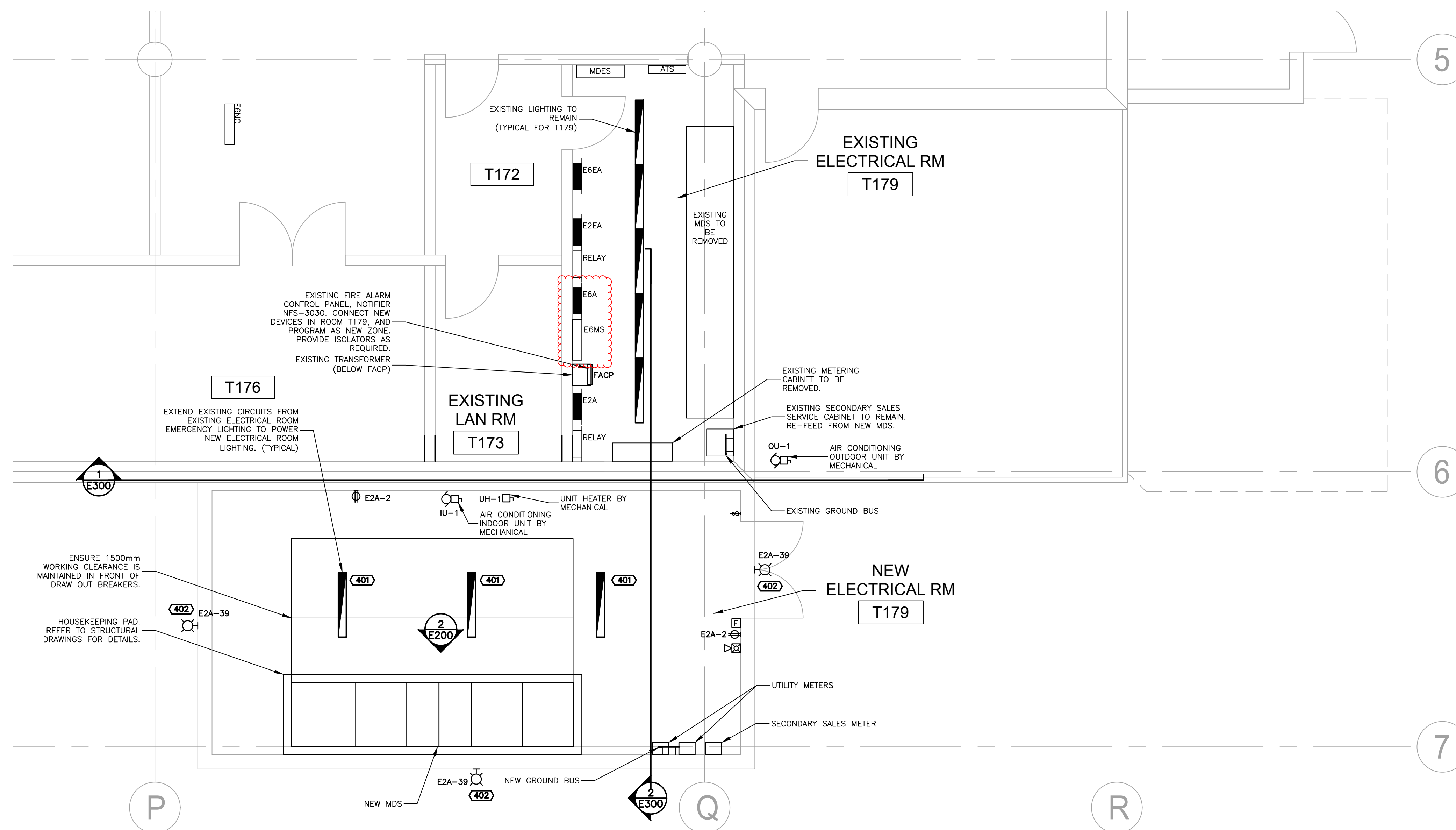
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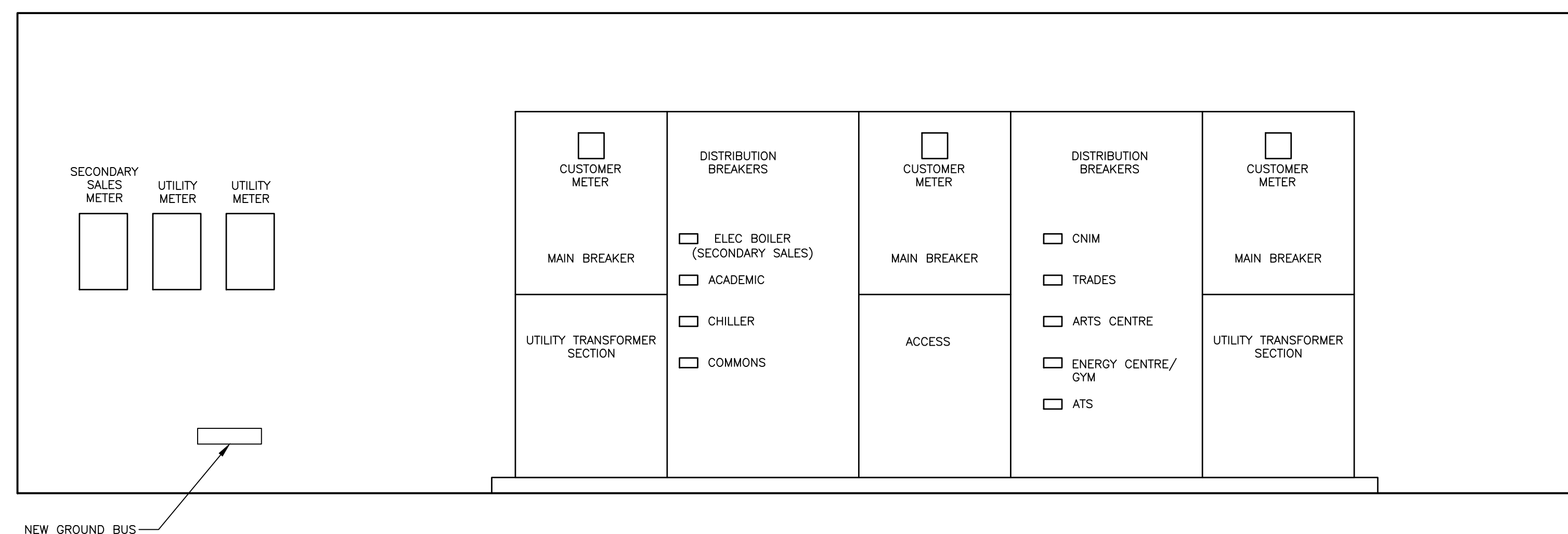
Revision

E101

2 of 7



1 ELECTRICAL ROOM ADDITION PLAN
E101 1:50



2 NEW ELECTRICAL ROOM ADDITION ELEVATION
E101 1:25



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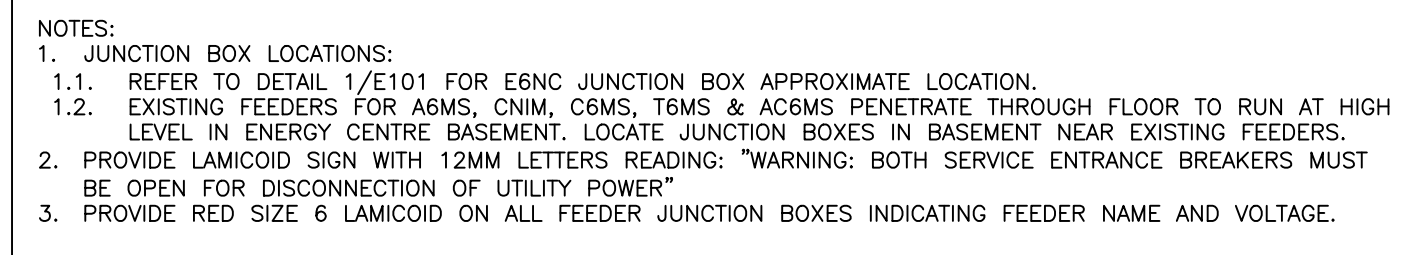
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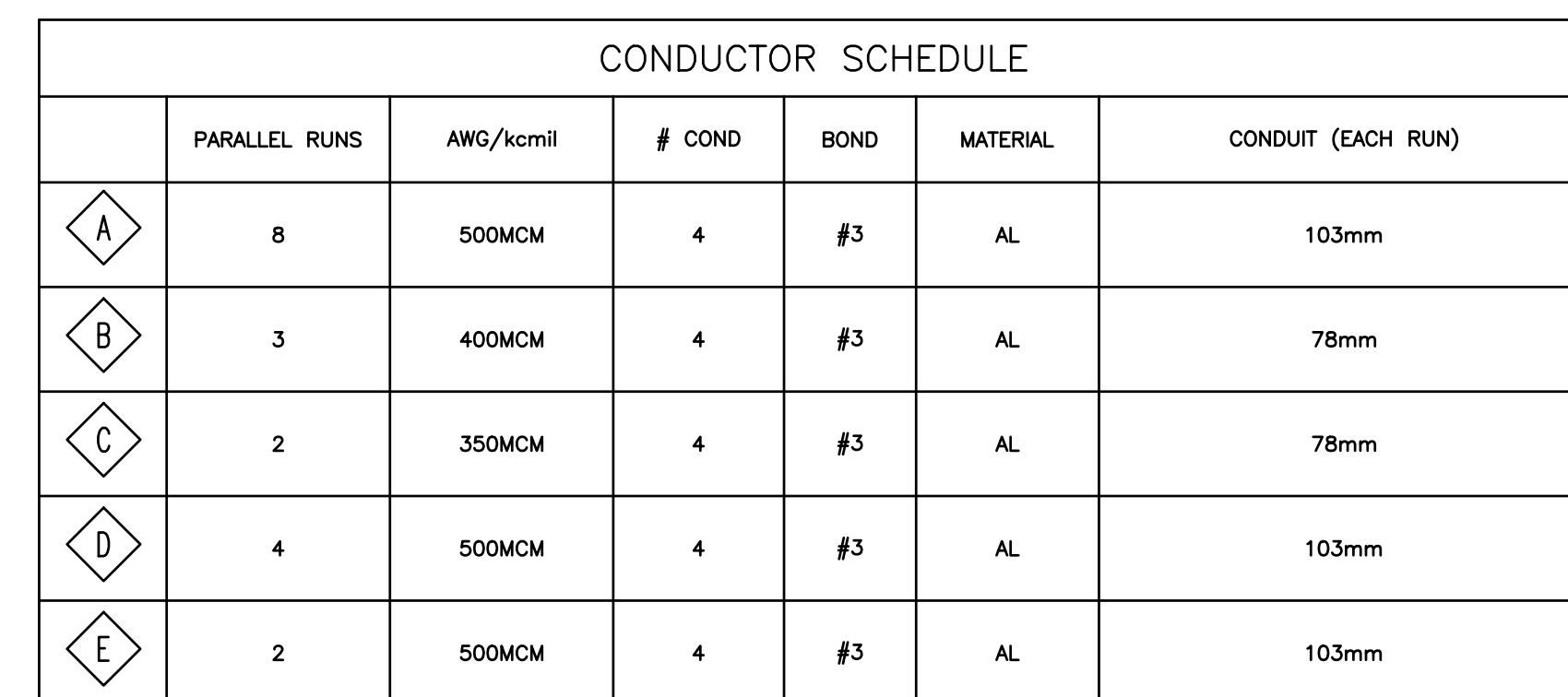
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Permit-Seal

Revision



1 PARTIAL SINGLE LINE DIAGRAM - NEW MDS (FINAL)
ESK-3 N.T.S.



NOTES:
1. FEEDER CONDUITS TO BE RPVC BELOW GROUND, RIGID STEEL WHERE EXPOSED TO MECHANICAL DAMAGE, AND EMT ELSEWHERE.