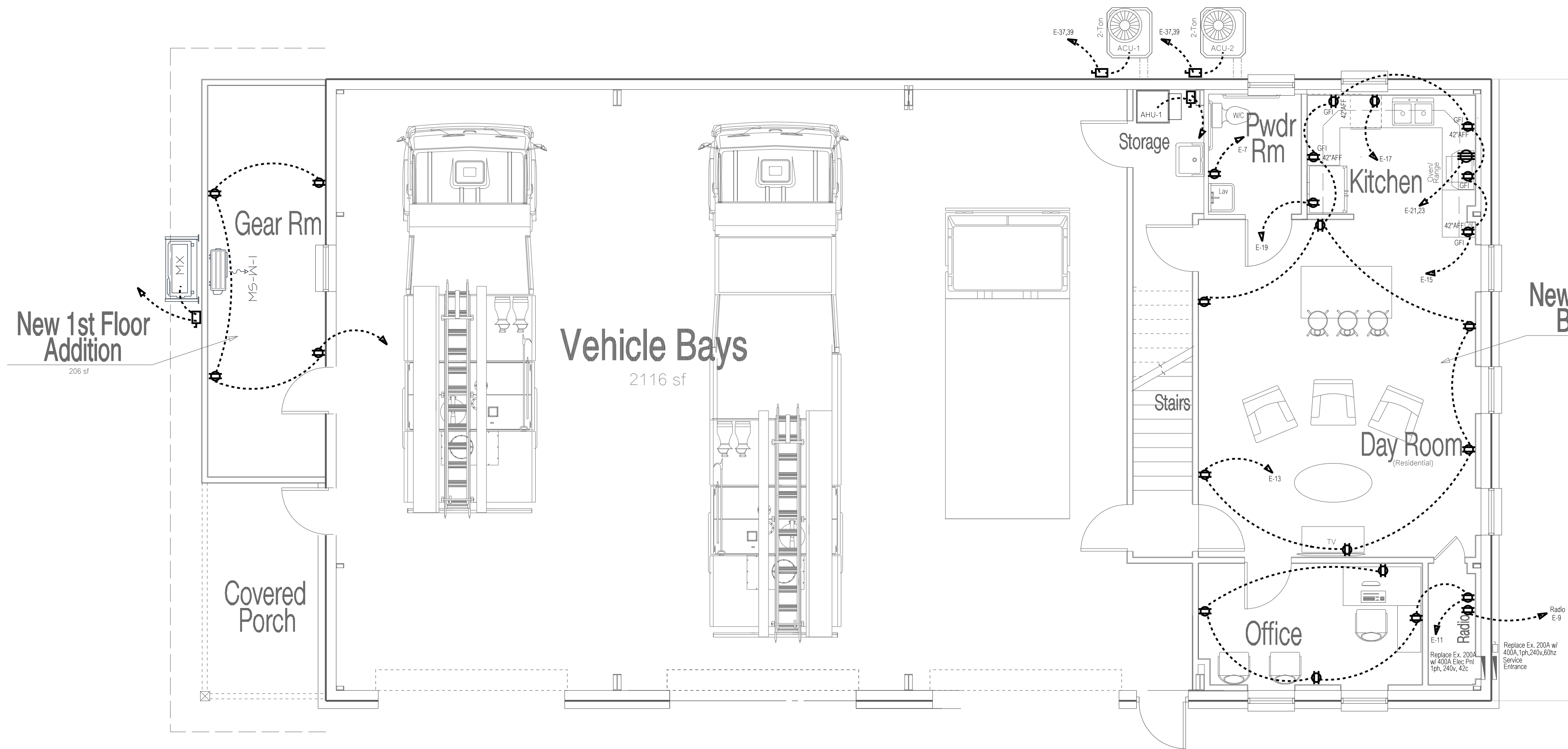
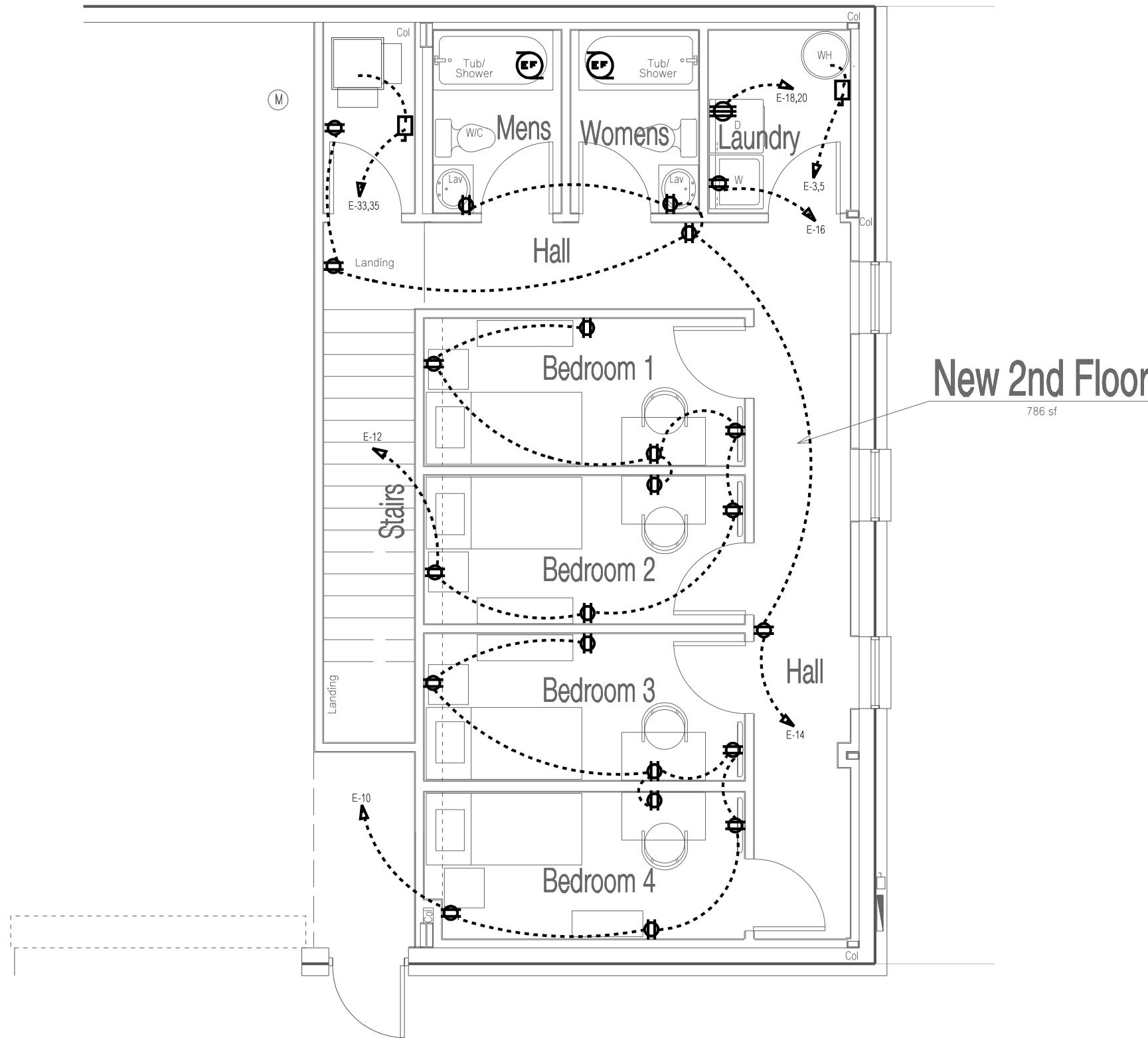




Electrical - Main Floor Power Plan



Electrical - Mezzanine Level Power Plan

Electrical Symbols

New LED light fixture, 2x2 lay-in or recessed mounted, multi-light bank, slash indicates night light or 24hr light

New high bay LED (warehouse area) light

New LED ceiling fixture, surface or pendant mounted

New LED light fixture, wall mounted

New LED light fixture, recessed mntd.

Emergency light, twin flood with integral battery and charger (90 minute)

Emergency exit light with 40 minute integral battery and charger

Junction box

Duplex receptacle, 20A, 120V

Quad receptacle, 20A, 120V

LED wall pack light

3 WIRE POWER RECEPTACLE, 30A, 208V

TELEPHONE/DATA/TV OUTLET(MNT. 54" AFF) W/ (U) 22-8 CABLE TO TEB (VERIFY TYPE SERVICE W/ OWNER)

TELEPHONE/DATA/TV OUTLET(MNT. 48" AFF) W/ (U) 22-8 CABLE TO TEB (VERIFY TYPE SERVICE W/ OWNER)

WALL OR SOFFIT MNTD EXTERIOR FLOOD LIGHT, LED TYPE

THREE WAY TOGGLE SWITCH 20A

INDICATES SWITCH WITH OCCUPANCY SENSOR

SMOKE DETECTOR, IONIZATION TYPE UNLESS OTHERWISE SPECIFIED, WIRED TO ROOM CIRCUIT, W/ BATTERY BACKUP. SEE FIRE ALARM DNGS FOR EXACT LOCATION. "J" NEXT TO SYMBOL INDICATES JUNCTION BOX ABOVE

HEAT DETECTOR, SEE FIRE ALARM DRAWINGS

CEILING OR WALL EXHAUST FAN, SEE MECHANICAL EQUIPMENT SCHEDULE FOR SPECIFICATIONS.

CEILING OR WALL AIR SUPPLY FAN, SEE MECHANICAL EQUIPMENT SCHEDULE FOR SPECIFICATIONS.

CONDUIT AND JUNCTION BOX. SLASHES INDICATE NUMBER OF INDIVIDUAL CONDUCTORS IN CONDUIT. SOLID ARCS BETWEEN DEVICES INDICATES CONDUIT RUN.

INDICATES WEATHERPROOF DEVICE SUCH AS AN OUTDOOR RECEPTACLE.

INDICATES A DEVICE WITH GROUND FAULT INTERRUPTING CAPACITY.

FUSED/NON-FUSED SAFETY SWITCH, SEE SPECIFICATION ON PRINT FOR AMPERE RATING, NUMBER OF POLES AND NEMA TYPE ENCLOSURE

CEILING FAN W/ LED LIGHT KIT, "J" NEXT TO SYMBOL INDICATES JUNCTION BOX W/ EXTENDERS ABOVE

TELEPHONE BACK BOARD

INDICATES SWITCH BANK LOCATION

DISTRIBUTION PANEL (ELECTRICAL)

INDICATES AN EXISTING FIXTURE/COMPONENT TO BE REMOVED OR RELOCATED

INDICATES A FIXTURE/COMPONENT TO BE RELOCATED AN OUTDOOR RECEPTACLE.

INDICATES A FIXTURE/COMPONENT TO BE REMOVED AN OUTDOOR RECEPTACLE.

DASHED/LIGHTER ITEMS ARE REMOVED OR RELOCATED

DARKER/HEAVIER ITEMS ARE NEW OR RELOCATED

* = VERIFY MOCP WITH MANUFACTURER OR EQUIPMENT PLATE
F.V. = FIELD VERIFY ALL EXISTING COMPONENTS AND EQUIPMENT REQUIREMENTS

Electrical Notes

1. REUSE EXISTING CIRCUITS AS PRACTICAL. NEW LIGHT SWITCHES SHALL BE MOTION SENSOR AND SWITCH OPERATED W/ 30 MINUTE DELAY.

2. ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR ALL ELECTRICAL RELATED ITEMS AND TO MAKE SURE HIS WORK MEETS ALL CODES.

3. ELECTRICAL CONTRACTOR SHALL FURNISH, LABOR, SUPPLIES, MATERIALS, PERMITS, CERTIFICATE OF FINAL INSPECTION AND APPROVAL, ONE YEAR GUARANTEE, ENGINEER TO REVIEW AND STAMP DRAWINGS, AND ELECTRICAL DIST. LAYOUT (THIS INFORMATION TO BE PROVIDED TO GENERAL CONTRACTOR FOR REVIEW AND IN A FORMAT THAT CAN BE PLACED ON ELECTRICAL DRAWING.

4. ELECTRICAL CONTRACTOR SHALL PERFORM, INSTALLATION OF ALL ELECTRICAL EQUIPMENT AND TO COORDINATE WITH OTHER TRADES THE INSTALLATION OF SAID EQUIPMENT. MATERIAL PROTECTION THROUGH ALL PHASES OF CONSTRUCTION, TO TEST ENTIRE SYSTEM IN THE PRESENCE OF THE OWNER OR HIGHER REPRESENTATIVE. COORDINATE WITH SIGN INSTALLER, COORDINATION OF TELEPHONE SERVICE WITH LOCAL TELEPHONE COMPANY.

5. GOVERNING CODES: SEE COVER SHEET FOR ELECTRICAL CODES, NATIONAL ELECTRICAL CODES, UTILITY COMPANY REGULATIONS.

6. MATERIAL STANDARDS: ONLY NEW U.L. LISTED MATERIAL IS TO BE USED.

7. OUTLET BOXES: ATTACH SECURELY TO BUILDING CONSTRUCTION OF SUPPORT FROM SAME. MASONRY BOXES RAGO OR STEEL CITY. EXPOSED BOXES CAST TYPE SIMILAR TO CROUSE HINDS FS, ALL OTHERS STAMPED STEEL.

8. ELECTRICAL SERVICE: EXISTING.

9. NOT USED

10. MAINTENANCE MANUALS: PROVIDE OWNERS MANUALS FOR ALL INSTALLED USER SERVICEABLE EQUIPMENT.

11. HVAC CONDUIT SYSTEM: PROVIDE JUNCTION BOXES FOR THERMOSTATS WITH CONDUIT SYSTEM FROM BOXES TO MECHANICAL UNITS. PROVIDE CONDUIT SYSTEMS FOR ALL OTHER WIRING. COORDINATE JUNCTION BOX LOCATIONS AND CONDUIT ROUTING WITH MECHANICAL CONTRACTOR.

12. CONDUCTORS SHALL BE COPPER THIN OR THIN, UNLESS NOTED OTHERWISE.
13. RACEWAYS BELOW GRADE SHALL BE SCHEDULE 40 PVC. RACEWAYS ABOVE GRADE SHALL BE RIGID EMT WITH STEEL COMPRESSION OR SET SCREW FITTINGS.

14. EQUIPMENT CONNECTIONS SHALL BE MADE WITH A SHORT SECTION OF FLEXIBLE CONDUIT (SALTINE IN EXTERIOR LOCATIONS) USING COMPATIBLE FITTINGS.

15. PROVIDE GROUND CONDUCTORS AS NOTED, AND IN ALL PVC AND FLEXIBLE CONDUITS.

16. DEVICES SHALL BE SPECIFICATION GRADE WITH COLOR AS SELECTED. DEVICE PLATES SHALL BE SMOOTH PLASTIC.

17. INDOOR DISCONNECT SWITCHES ARE GENERAL DUTY NEMA 1 OUTDOOR DISCONNECT SWITCHES ARE HEAVY DUTY NEMA 3R

18. PANEL BOARDS ARE EXISTING - (2) 225 AMP, 3PH

19. INSTALL A TYPEWRITTEN CONDUIT DIRECTORY ON PANELBOARD COVER INTERIOR REFLECTING AN "AS WIRED" CONDITION AFTER WIRING IS COMPLETE.

20. LIGHTING FIXTURES SHALL BE SUPPLIED COMPLETE WITH LAMPS AND ALL NECESSARY MOUNTING HARDWARE, HANGERS AND TRIM.

21. CIRCUIT BREAKER INTERRUPTING DATA IS ASSUMED. ACTUAL A.I.C. WILL FOLLOW AFTER RECEIPT OF REQUESTED AVAILABLE FAULT CURRENT FROM THE LOCAL ELECTRIC COMPANY. ELECTRICAL CONTRACTOR TO VERIFY BEFORE ORDERING EQUIPMENT.

22. ELECTRICAL CONTRACTOR TO VERIFY ALL CIRCUIT REQUIREMENTS WITH ACTUAL EQUIPMENT PROVIDED.

23. ALL OUTLETS AND RECEPTACLES IN ALL ONE-HOUR WALLS SHALL BE FIRE STOPPED, AND ALL CONDUIT IN SUCH WALLS SHALL BE EMT. SEAL ALL POINTS OF PENETRATION WITH 3M FIRE BARRIER CAULK OR EQUAL.
- ALL HVAC DUCT, GAS PIPE, ELECTRICAL, AND PLUMBING SHALL BE ATTACHED TO BUILDING STRUCTURE OR SUSPENDED FROM STRUCTURE WITH STEEL SUPPORT RODS.

1. GROUND FAULT PROTECTION FOR APPLIANCES SHALL BE READILY AVAILABLE

2. A RECEPTACLE IS REQUIRED WITHIN 50 FEET OF THE ELECTRICAL SERVICE.

3. ALL 125-VOLT, SINGLE PHASE, 15- AND 20-AMPERE RECEPTACLES INSTALLED IN THE LOCATIONS SPECIFIED IN 210.8(B)(1) THROUGH (8) SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL, INSTALLED IN READILY ACCESSIBLE LOCATIONS.

4. RECEPTACLES INSTALLED IN WET LOCATIONS, WASH-DOWN AREAS, ARE REQUIRED TO HAVE ENCLOSURES & COVERS THAT PROVIDE WEATHERPROOFING - EXTRA DUTY COVERS NEC 406.9

PANEL "E" (NEW TO REPLACE EXIST. 200A)				TYPE _ 400A - RECESSED			
VOLTAGE 240/120v,1ph,4W,42c, 22k AIC (F.V.)				STANDARD LUGS			
DEVICE	BRANCH CIRCUIT	NO.	W/O VOLT-AMPS	NO.	BRANCH CIRCUIT	NO.	W/O VOLT-AMPS
DESIGNATION				DESIGNATION			
20 1	OVERHEAD DOORS	1	1.28 - 0.84	2	RECEPTACLE - BAY 3	1	20
30 2	WATER HEATER	3	2.75 - 1.20	4	RECEPTACLE - BAY 1 & 2	1	20
20 1	RECEPTACLE - BATH	5	2.75 - 1.20	6	LIGHTS - BAYS	1	20
20 1	RECEPTACLE - RADIO	7	2.30 - 1.44	8	LIGHTS - BAYS	1	20
20 1	RECEPTACLES - OFFICE	9	1.30 - 1.44	10	RECEPTACLE - BEDROOMS 3 & 4	1	20
20 1	RECEPTACLES - DAYROOM	11	1.30 - 1.44	12	RECEPTACLE - BEDROOMS 1 & 2	1	20
20 1	RECEPTACLES - KITCHEN	13	1.30 - 1.44	14	RECEPTACLE - MEZZANINE HALL	1	20
20 1	RECEPTACLES - DISHWASHER	15	1.30 - 1.44	16	RECEPTACLE - LAUNDRY RM	1	20
20 1	RECEPTACLES - REFRIGERATOR	17	1.28 - 0.84	18	CLOTHES DRYER	2	40
40 2	STOVE/RANGE	19	2.75 - 1.20	20	RECEPTACLE - MEZZANINE BATH	1	20
	SPACE	23	4.20 - 2.72	24	RECEPTACLE - GEAR ROOM	1	20
20 1	LIGHTS - 1ST FLOOR	25	0.42	26	LIGHTING - MEZZANINE	1	20
20 1	LIGHTS - 1ST FLOOR	27	2.29 - 0.52	28	LIGHTING - MEZZANINE	1	20
20 1	DEHUMIDIFIER - AHU	29	0.38 - 3.04	30	MINI SPLIT, GEAR RM	2	30
40 2	AHU-1	31	1.00 - 1.40	32	SPACE		
40 2	AHU-2	33	4.20 - 1.40	34	CU-1	2	25
	SPACE	35	4.20 - 1.40	36	CU-2	2	25
		37	4.20 - 1.40	38			
		39	4.20 - 1.40	40			
		41	—	42			
LOCATION: NEW MECH. ROOM		29.22	35.11	64.32 kVA = 268.00 AMPS			

VERIFY MOCP WITH ALTERNATE MANUFACTURERS

= NEW OR REWORKED CIRCUIT

Project Name

Seal

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