

PANEL EXISTING PANEL LFA		LOC. AT ELECTRICAL CLOSET	MTD	DPLUSH	SURFACE	FED FR	MDP
RATINGS: 120 208V1 - 3PH-4W		60 P		225AMP CU. BUS	2-SECTION		
COPPER							ISO GND. BUS
MAIN DEVICE: 225 AMP 3-P.		<input type="checkbox"/> C/B	<input type="checkbox"/> SHUNT TRIP	<input type="checkbox"/> C/B	<input type="checkbox"/> LUGS	<input type="checkbox"/> FU. & SW.	<input type="checkbox"/> DOUBLE LUGS
CIRCUIT		PH. LOAD (A)	WIRK (AWG)	<input type="checkbox"/> C/B	100P	WIRK (AWG)	PH. LOAD (VA)
NO	SERVING	A	B	C		C	B
1	EXISTING			EXISTING	EX	EXISTING	EXISTING
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13					20	2#2-60-3/4"	LIGHTING
14					20	2#2-60-3/4"	LIGHTING
15					EX	EXISTING	EXISTING
16							
17							
18							
19							
20							
21							
22							
23							
24							
25					20	2#2-60-3/4"	
26	RECEPT				20	2#2-60-3/4"	
27	RECEPT				20	2#2-60-3/4"	
28	RECEPT				20	2#2-60-3/4"	
29	RECEPT				20	2#2-60-3/4"	
30	RECEPT				20	2#2-60-3/4"	
31	EXISTING				EX	EXISTING	
32							
33							
34							
35							
36							
37							
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39							
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52							
53							
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55							
56	RECEPT				20	2#2-60-3/4"	
57	RECEPT				20	2#2-60-3/4"	
58	RECEPT				20	2#2-60-3/4"	
59							
60							
TOT. ODD CKT.		TOT. CONN. LOAD:		KVA		TOT. EVEN CKT.	
		TOT. DEM. LOAD:		KVA			

NOTES:

1. ALL BREAKERS ARE EXISTING UNLESS OTHERWISE NOTED
2. ALL NEW BREAKERS SHALL MATCH EXISTING A/C RATINGS

PANEL EXISTING PANEL ELPA LOC. AT ELECTRICAL CLOSET MTD. C/P LASH SURFACE										FED FR MDP	
RATINGS 120/208/1 - 3PH - 4W - 24 P.										225AMP. CU. BUS	
FEDER. COPPER										ISO. GND. BUS	
MAIN DISC. 225 AMP. 3-P.										DOUBLE LUGS	
CIRCUIT										CIRCUIT	
PH. LOAD (VA)										P.V. LOAD (VA)	
A B C										C B A	
1	EXISTING				EXISTING					EXISTING	
3											
5											
7											
9											
11	RECEPT.				2#12-20-3/4"	20					
13	RECEPT.				2#12-20-3/4"	20					
15	EXISTING				EXISTING	EX					
17											
19											
21											
23											
25											
27											
29											
31											
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35											
37											
39											
41											
TOT. ODD CKT.					TOT. CONN. LOAD					KVA	
					TOT. DEM. LOAD					KVA	
										TOT. EVEN CKT.	

ALL CONDUIT AND WIRING SHALL BE SEE CODE IN LINES OTHERWISE NOTED ON PLAN

UNLESS OTHERWISE NOTED ON PLANS
NOTES:

1. ALL BREAKERS ARE EXISTING UNLESS OTHERWISE NOTED
2. ALL NEW BREAKERS SHALL MATCH EXISTING AIC RATINGS

PANEL EXISTING PANEL LPS										LOC. AT ELECTRICAL CLOSET	MTD	DFLUSH	□ SURFACE	FED FR	MDP
RATINGS: 120/208V, 3PH-4W-3P										42 P.	225AMP	CU. BUS		ISO. GND. BUS	
COPPER															
MAIN DEVICE		225 AMP-3-P.		<input type="checkbox"/> C/B	<input type="checkbox"/> SHUNT TRIP	C/B	<input type="checkbox"/> LUGS	<input type="checkbox"/> FU. & SW	<input type="checkbox"/> DOUBLE LUGS						
CIRCUIT		PH. LOAD (VA)		WIR (AWG)	<input type="checkbox"/> C/B	<input type="checkbox"/> FUSE	WIR (AWG)	PH. LOAD (VA)	CIRCUIT						
NO.	EXISTING	A	B	C	EXISTING	EX	EXISTING	EXISTING	EXISTING						
1															
2															
3															
4															
5															
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8															
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30															
31															
32															
33															
34															
35	RECEPT				2#2-60-3/4"	20			2#2-60-3/4"					LIGHTING	36
36															
37	RECEPT				2#2-60-3/4"	20			2#2-60-3/4"					RECEPT	38
38															
39	RECEPT				2#2-60-3/4"	20			2#2-60-3/4"					DIGT HTR	40
40															
41	RECEPT				2#2-60-3/4"	20		15	2#2-60-3/4"						42
42															
43	TOT. GDD. CKT.				TOT. GDD. LOAD:				KVA					TOT. EVEN CKT.	
					TOT. DEM. LOAD:				KVA						

1. ALL BREAKERS ARE EXISTING UNLESS OTHERWISE NOTED

2. ALL NEW BREAKERS SHALL MATCH EXISTING AIC RATINGS

PANEL: EXISTING PANEL LPD										LOC. AT ELECTRICAL CLOSET										MTD. C/PLUSH C/SURFACE										LPD FR. MOP																																																																																										
RATINGS 120 208V - 3PH - 4W - 60 P.										225 AMP. CU BUS										2-SECTION										ISO. GND. BUS																																																																																										
FIBER - COPPER																																																																																																																								
MAIN DEVICE 225 AMP. 3 P.										<input type="checkbox"/> SHUNT TRIP C/B										<input type="checkbox"/> MGS										<input type="checkbox"/> PU. & SW										<input type="checkbox"/> DOUBLE LUGS																																																																																
CIRCUIT										PH. LOAD (VA)										WIRE (AWG.)										C/F										FUSE (AMP.)										WIRE (AWG.)										PH. LOAD (VA)										SERVING										CIRCUIT																																								
N										A										B										C																																																																																										
1	LIGHTING										2#12-60-3/4"										EX																				EXISTING																														EXISTING																																																	
3	LIGHTING										2#12-60-3/4"																																																																																																													
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53	RECEPT.										2#12-60-3/4"										20																				2#12-60-3/4"																				RECEPT.																																																											
55	RECEPT.										2#12-60-3/4"										20																				EXISTING																				EXISTING																																																											
57	RECEPT.										2#12-60-3/4"										EX																				EXISTING																				EXISTING																																																											
59																																																																																																																								
TOT. ODD CKT.																				TOT. CONN. LOAD:																				RVA																				TOT. EVEN CKT																																																												
																				TOT. DEM. LOAD:																				RVA																																																																																

NOTES:

1. ALL BREAKERS ARE EXISTING UNLESS OTHERWISE NOTED
2. ALL NEW BREAKERS SHALL MATCH EXISTING AIC RATINGS

PANEL: EXISTING PANEL ELPD 16A AT ELECTRICAL CLOSET (MTD. DPLUSH) SURFACE										FED FR. MOP	
RATINGS 120/208V - 3PH - 4W - 24 P.										225AMP. CU. BUS	
FREDER										CISCO. GND. BUS	
MAIN DEVICE: 225 AMP. 3 P. <input type="checkbox"/> C/B <input type="checkbox"/> SHUNT TRIP C/B <input type="checkbox"/> MGS <input type="checkbox"/> PU. & SW <input type="checkbox"/> DOUBLE LAGS											
CIRCUIT		PH. LOAD (VA)		WIRE (AWG.)		C/B		FUSE (AMP.)		PH. LOAD (VA)	
NO. SERVING		A B C		EXISTING		EXISTING		C B A		SERVING	
1	EXISTING			EXISTING	EX	EXISTING				EXISTING	
3											2
4											3
7											6
8											8
9											10
10											11
13						20		2"0-60-3/4"			RECEPT. EXISTING
15											14
16											15
17											16
19											18
21						20		2"0-60-3/4"			RECEPT. EXISTING
23						EX					20
25											22
27											23
29											24
31											26
33											28
35											30
37											32
39											34
41											36
43											38
45											40
TOT. ODD CKT.				TOT. CONN. LOAD				KVA		TOT. EVEN CKT	
				TOT. DESM. LOAD				KVA			

ALL CONDUIT AND WIRING SHALL BE PER CODE UNLESS OTHERWISE NOTED ON PLAN

1. ALL BREAKERS ARE EXISTING UNLESS OTHERWISE NOTED

2. ALL NEW BREAKERS SHALL MATCH EXISTING AIC RATINGS

PANEL: NEX PANEL FAE			LOC AT ELECTRICAL CLOSET			MTD DISPLHS SURFACE			FED FR MOP		
RATINGS 120/ 208V - 3PH-4W - 60 P.			225AMP CU BUS			2-SECTION			ISO. GND. BUS		
COPPER											
MAIN DEVICE 225 AMP 3 P.			C/B			DISJUNT TRIP C/B			LIGTS		
CIRCUIT			WIRE (AWG)			WIRE (AWG)			PU. & SW		
N SERVING			PH. LOAD (VA)			WIRE (AWG)			PH. LOAD (VA)		
A			B			C			SERVING		
EXISTING			EXISTING			EXISTING			EXISTING		
1						EX					
3						EX					
4											
7											
9											
11											
12						20		2#2-60-3/4"			LIGHTING
13						EX					
15								2#2-60-3/4"			RECEPT
17						EX		EXISTING			EXISTING
19											
21											
23											
25											
27						20		2#2-60-3/4"			RECEPT
29						20		2#2-60-3/4"			RECEPT
31						20		2#2-60-3/4"			RECEPT
33						20		2#2-60-3/4"			RECEPT
35						20		2#2-60-3/4"			RECEPT
37						20		EXISTING			EXISTING
39											
41											
43						20		2#2-60-3/4"			RECEPT
45						20		2#2-60-3/4"			RECEPT
47						20		2#2-60-3/4"			RECEPT
49											
51	SERVING UNIT		4#0-60-1"		30	30		3#0-60-1"			COFFEE
53											
55	SPARE				20	20					SPARE
57											
59											
TOT. ODD CKT.					TOT. CONN. LOAD:			RVA			TOT. EVEN CKT
					TOT. DEM. LOAD:			RVA			

△ RECONNECT EXISTING BRANCH CIRCUITS TO NEW PANEL LP-E. CONTRACTOR TO MATCH EXISTING BREAKER SIZE FROM REMOVED PANEL LP-E.

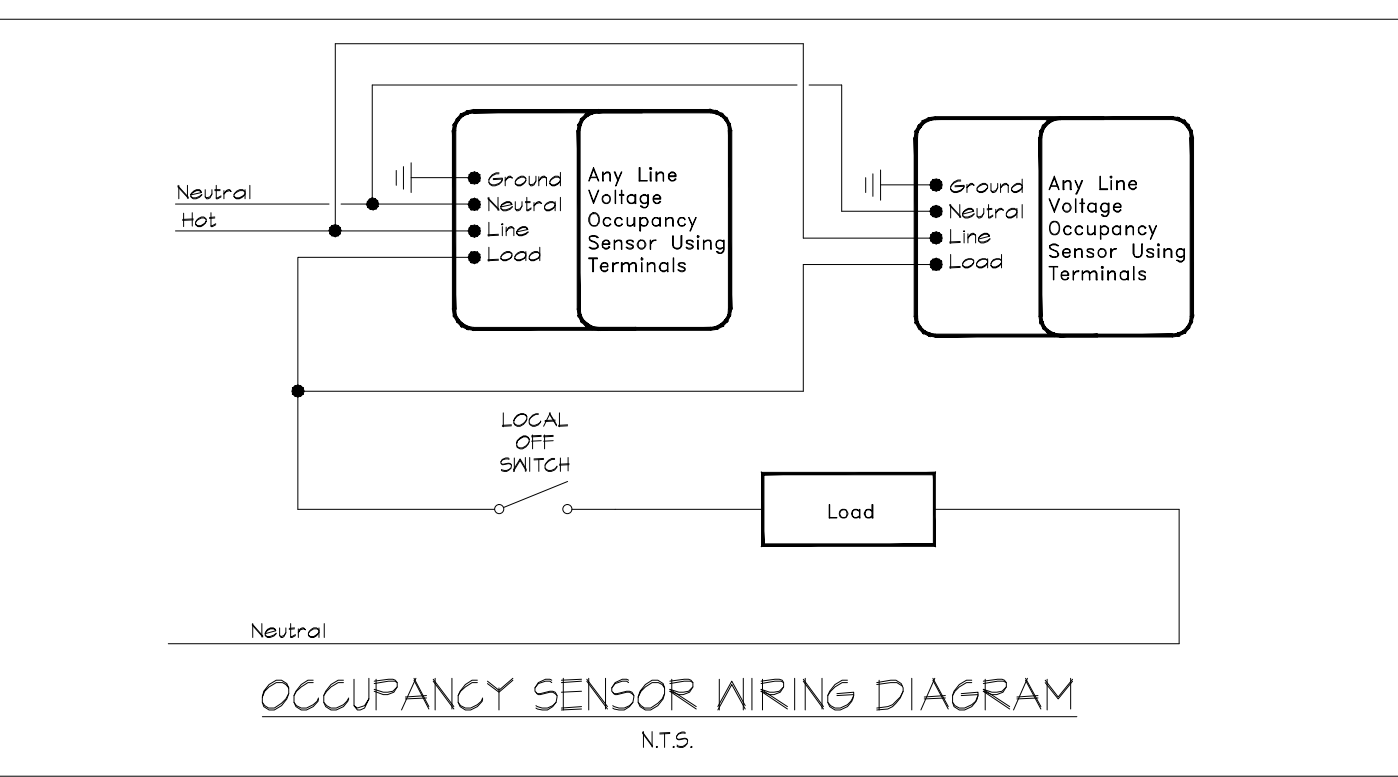
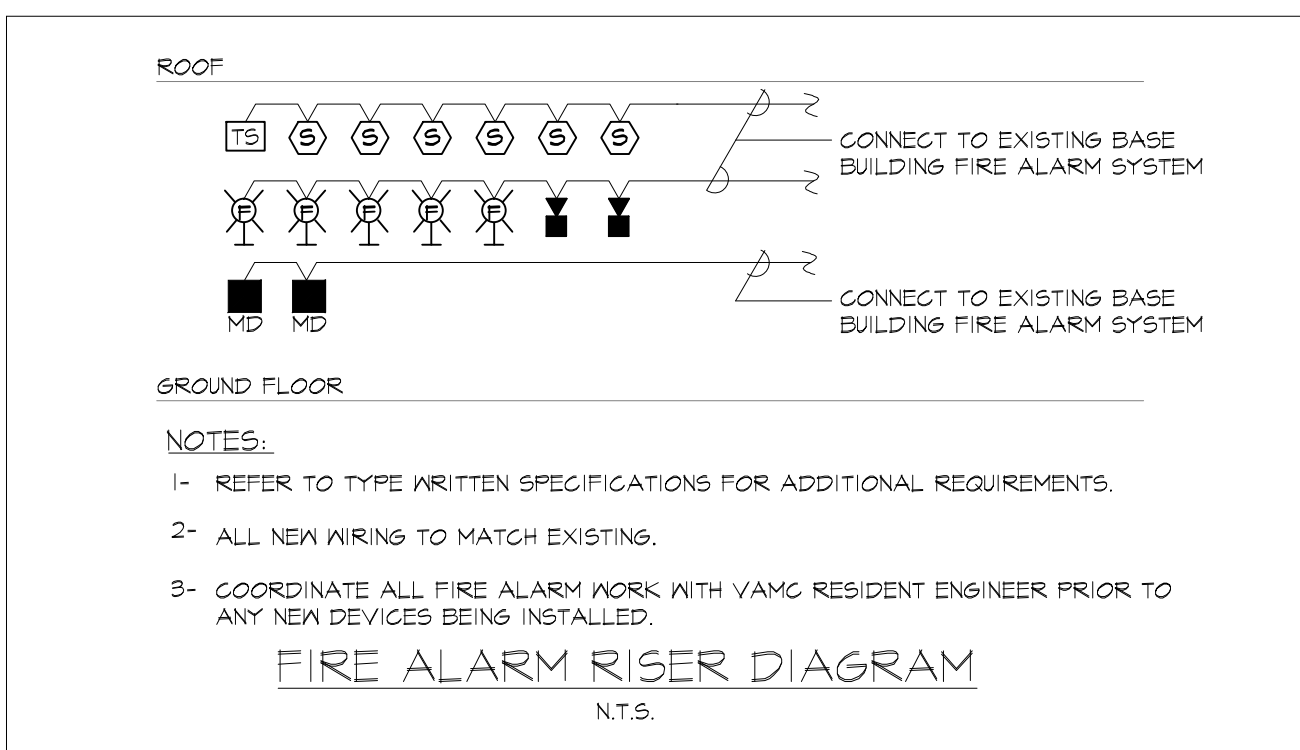
PANEL EXISTING PANEL ELFE (LOC. AT ELECTRICAL CLOSET MTD. SURFACE)										FED FR MDP	
RATINGS 120/208V 3PH-4W-3P 225AMP. CU. BUS										DISO. GND. BUS	
COPPER											
MAIN DEVICE		225 AMP. 3 P.		<input type="checkbox"/> C/B	<input type="checkbox"/> SHUNT TRIP C/B	<input type="checkbox"/> LAUGS	<input type="checkbox"/> PU. & SW	<input type="checkbox"/> DOUBLE LAUGS			
CIRCUIT		PH. LOAD		WIRE (AWG)	<input type="checkbox"/> C/B	<input type="checkbox"/> FUSE (AMP)	WIRE (AWG)	KVA. LOAD (VA)		CIRCUIT	
NO. SERVING		A	B	C			C	B	A	NO. SERVING	
1	EXISTING			EXISTING		EX					EXISTING
3											2
5											4
7											6
9	RECEPT			2#2-60-3/4"		20					8
11	EXISTING			EXISTING		EX					10
13											12
15											14
17											16
19											18
21											20
23											22
25											24
27											26
29											28
31											30
33											32
35											34
37											36
39											38
41											40
TOT. ODD CKT.				TOT. CONN. LOAD				KVA.		TOT. EVEN CKT.	

ALL CONDUIT AND WIRING SHALL BE PER CODE IN ESS OTHERWISE NOTED ON PLAN

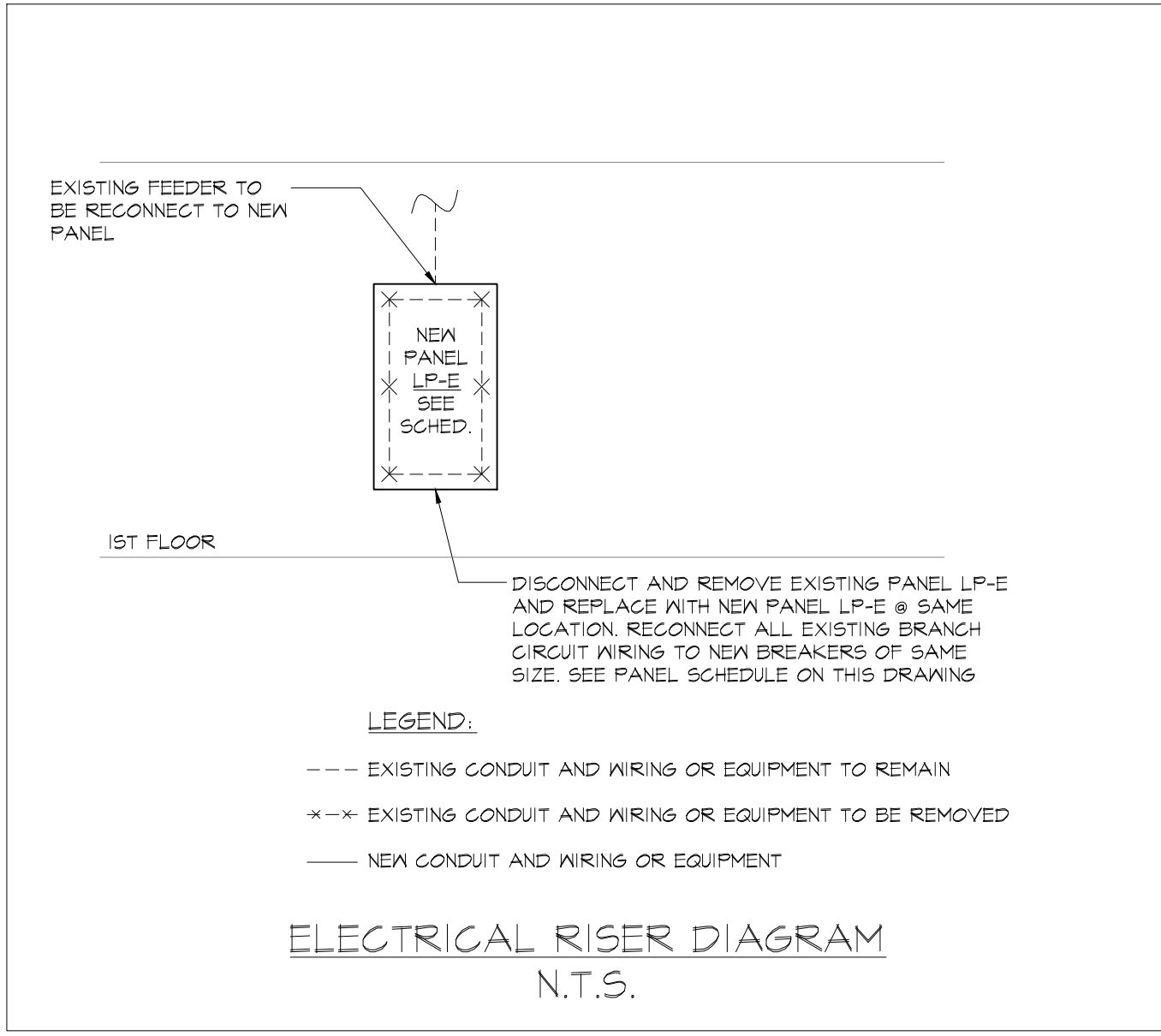
* INDICATES NEW BREAKER


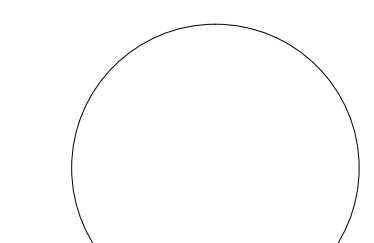
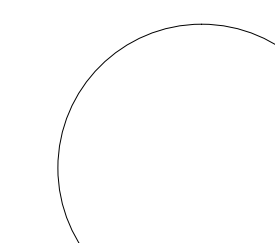
NOTES:


1. ALL BREAKERS ARE EXISTING UNLESS OTHERWISE NOTED
2. ALL NEW BREAKERS SHALL MATCH EXISTING AIC RATINGS



- ELECTRICAL GENERAL NOTES:**
1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS, MAINTAIN HEADROOM AND SPACE CONDITIONS.
 2. EXACT LOCATIONS OF ALL LIGHTING FIXTURES, DEVICES, SECURITY DEVICES, CAMERAS, MONITORS, ETC., SHALL BE SHOWN ON THE DRAWING. THE LOCATION SHALL BE AS INDICATED ON ARCHITECTS DRAWINGS. REFER TO ARCHITECTS DWGS. FOR DIMENSIONED LOCATIONS.
 3. SECURE ALL SUPPORTS TO BUILDING STRUCTURE UTILIZING TOGGLE BOLTS (HOLLOW WALLS), ANCHOR BUSHES OR INSERTS (CONCRETE AND BRICK), MACHINE SCREWS (METAL), BEAM CLAMPS (TRAMWORK), AND WOOD SCREWS (WOOD) WALLS, RAFT, PLUMB AND JOIST PLUGS ARE NOT PERMITTED. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FT APART. RUN RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO BUILDING LINES.
 4. PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 9 INCH OF STEAM OR HOT WATER PIPES. PROVIDE PROPER CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 1 INCH FORM PIPE COVER.
 5. CUT CONDUIT ENDS SQUARE. REAM SMOOTH. PAINT MALE THREADS OF FIELD THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAIN UP TIGHT WITH RACEWAY GROUTS TO PREVENT INSTALLATION.
 6. LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS. RACEWAY OVER 10 FT LONG IN WHICH WIRING IS NOT INSTALLED, PURNISH FISH TAPE.
 7. SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FINISHING AND FIRE PROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.
 8. VERIFY LOCATIONS OF FIXTURES, DEVICES, IN FINISHED AREAS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH. CENTERING OUTLETS AND DEVICES. ALLOW FOR OVERHEAT FIRES, DUCTS AND MECHANICAL EQUIPMENT. VARIATIONS IN FREEZER/COOLERS, HEATING AND/AND OR OTHER NEW PANELING, HUNG CEILINGS AND THE LIKE. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.
 9. LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. COORDINATE WITH THE VAMC RESIDENT ENGINEER AND ARCHITECT. INSTALL SWITCH ON SIDE OPPOSITE HINGE. VERIFY HINGE LOCATIONS IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION. FOR EMPLOYEED RACEWAY RUNS, PROVIDE PULL BOXES EVERY 100 FT AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.
 10. SUPPORT PANEL, JUNCTION AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO HINGE BEARING ON RACEWAYS.
 11. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY VAMC RESIDENT ENGINEER AND ARCHITECT PRIOR TO INSTALLATION.
 12. CONNECT CONDUIT TO MOTOR CONDUIT TERMINAL BOXES WITH LIQUID TIGHT FLEXIBLE CONDUIT, MINIMUM 1/8 IN. LENGTH AND 50% BLACK. DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR TERMINAL BOX.
 13. AFTER EXISTING WALLS TO BE REMOVED ARE DEMOLISHED, ANY EXISTING EXPOSED NON OBSOLETE CONDUITS AND WIRING SHALL BE REMOVED AND CONCEALED AS REQUIRED. CONDUITS SHALL BE CHASED INTO EXISTING FLOOR OR CEILING SLAB FOR REROUTING. EXISTING OUTLET BOXES THAT ARE REQUIRED TO REMAIN SHALL BE MADE ACCESSIBLE WITH BLANK COVERED PROVIDED. ANY EXISTING OUTLET BOX THAT BECOMES INACCESSIBLE SHALL BE RELOCATED TO BECOME ACCESSIBLE.
 14. ELECTRICAL CONTRACTOR SHALL REMOVE ALL OBSOLETE LIGHTING FIXTURES, ELECTRICAL RECEPTACLES, LIGHTS WIRING DEVICES, CONDUIT AND WIRING ETC., AS REQUIRED. OUTBACK AND REMOVE ALL OBSOLETE WIRING AND CONDUIT BACK TO PANEL OR LAST OUTLET BOX NOT AFFECTED BY THIS WORK.
 15. WHERE A LIGHTING FIXTURE, RECEPTACLE OR OUTLET BEING REMOVED CONTAINS CIRCUITS OR WIRING THAT IS TO REMAIN ACTIVE, (I.E. SERVED OTHER FIXTURES OR AREAS NOT ALTERED), THEN THE ELECTRICAL CONTRACTOR SHALL PROVIDE A NEW JUNCTION BOX AND MAINTAIN CONTINUITY OF SUCH CIRCUITS. WIRING REQUIRED REROUTED AND REWIRE EXISTING FIXTURES OR OUTLETS.
 16. ALL NEW LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENT OF THE CEILING GRID SYSTEM. THE SUPPORTS SHALL BE ANCHORED TO STRUCTURAL SLAB ABOVE OR STRUCTURAL MEMBERS ABOVE THE SUPPORTED CEILING.
 17. NO MORE THAN SIX (6) CONVENIENCE RECEPTACLES SHALL BE INSTALLED ON A SINGLE BRANCH CIRCUIT FOR GENERAL USE.
 18. GFI RECEPTACLES SHALL NOT SERVE OTHER RECEPTACLES FROM THEIR LOAD SIDE TERMINALS.
 19. ALL RECEPTACLES INSTALLED SHALL BE HOSPITAL GRADE.
 20. ALL RECEPTACLES INSTALLED WITHIN SIX (6) FEET OF SINK SHALL BE GFI TYPE.
 21. ALL EXISTING TO REMAIN GENERAL PURPOSE RECEPTACLES SHALL BE REPLACED/UPGRADED WITH NEW DEVICES/COVER PLATES. COLOR/TYPE SHALL MATCH NEW.
 22. CREATING NOTES FOR LIGHTING AND POWER
 1. CONTRACTOR SHALL WIRE ALL LIGHTING, RECEPTACLES AND EQUIPMENT ON 20 AMP BRANCH CIRCUITS UNLESS OTHERWISE NOTED ON DRAWING. ALL 20 AMP CIRCUITS SHALL BE 2 # 12 - 60 MFT IN HUNG CEILINGS OR HOLLOW WALLS AS INDICATED IN SPECIFICATIONS. UTILIZE 2 #12 - 60 - 3/4" FOR ALL CIRCUITS IN EXPOSED AREAS AS INDICATED.
 2. NUMBERS SHOWN NEXT TO A LIGHTING FIXTURE, RECEPTACLE OR EQUIPMENT ARE CIRCUIT NUMBERS. THESE NUMBERS ARE FOR CLARITY OF CIRCUITS ONLY AND FIELD CONDITIONS SHALL PREVAIL. (SEE NOTE #9 FOR EXAMPLE).
 3. FLOURESCENT LIGHTING FIXTURES DESIGNATED AS 'N' SHALL BE WIRED ON NON-SWITCHED CIRCUITS FOR FULL TIME OPERATION. (I.E. REFRIGERATORS, FREEZERS, ETC.) IN THE EVENT OF OCCUPANCY SENSOR FAILURE, ALL CONNECTED LIGHTING FIXTURES (BUILT IN) SHALL POWER ON.
 4. CONTRACTOR SHALL WIRE A MAXIMUM OF 1820 WATTS PER CIRCUIT ON 20A 120V LIGHTING CIRCUITS.
 5. EXT LIGHTING FIXTURES SHALL BE WIRED ON DEDICATED CIRCUIT AND CONNECTED TO A LOCKABLE ONE POLE 20 AMPERE CIRCUIT BREAKER IN THE PANEL.
 6. FOR EXACT LOCATION OF LIGHTING FIXTURES, RECEPTACLES, SWITCHES, ETC., REFER TO ARCHITECTURAL TELEPHONE ELECTRIC.
 7. REFER TO LIGHTING FIXTURES SCHEDULE FOR FIXTURE SPECIFICATION. ALL LIGHTING FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED HARDWARE AND MOUNTING ACCESSORIES FOR PROPER MOUNTING AND OPERATION.
 8. FOR FLOURESCENT LIGHTING FIXTURES PROVIDED ELECTRONIC BALLAST.
 9. NEXT TO SYMBOLS NUMBERS INDICATE CIRCUITS, UPPER CASE LETTERS DENOTE PANEL AND LOWER CASE LETTERS DENOTE SWITCH CONTROL.
a - SWITCH
A' - PANEL DESIGNATION
I - CIRCUIT NUMBER
 10. LOWER CASE LETTER IN EACH FIXTURE INDICATES SWITCH CONTROL.
 11. FIXTURES WITH NO LOWER CASE LETTER SHALL BE WIRED TO LOCAL SWITCH IN ROOM.



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VIA 140327		Revisions VA 0106	

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NOTE AND READ CAREFULLY:

The Contractor shall consult and study the requirements of each and every drawing and each specification section of this contract so that he /she may become acquainted with the project as a whole in order to determine how the work of his/hers subcontractor or vendor may affect the work required under this contract.

Written Specifications are part of this contract

KEY PLAN



BUILDING 92

Drawing Title
ELECTRICAL SCHEDULES AND DETAILS
Approved: Division Chief
Approved: Service Director

Project Title		
Implement Community Living Center Cultural Transformation		
Building Number	Checked	Drawn
92	MA	MA/D
Location		
Northport, New York		

Date
3/30/2012

Project No.
632-08-123

DRAWING NO.
E-5

Dwg. 340f 34