

### **Review Comments #2**

Project:Brighton Recovery Campus-Building FFrom:Jason WorthenProject No:20160686Date:March 20, 2017

DISCIPLINES
Mechanical Engineering
Electrical Engineering
Technology Design
Acoustical Engineering
Lighting Design
Theatre Design
Fire Protection Engineering
Building Commissioning

#### **BUILDING F RESPONSES**

E2. Please address the following.

A. Locations of main disconnect panel.

PC2: Sheet EP601:Per NEC 225.32 the main panel in each building is required to have a disconnecting means located at the point of entrance of the building. It appears that each of the building panels are provided with main lugs only. Please provide a disconnect for each panel. This comment also applies to sheets EP602 and EP603.

Response: All branch panels will be changed to have main circuit breakers.

### ENGINEERING EXCELLENCE

Healthcare
Higher Education
K-12 Education
Government
Houses of Worship
Special Projects

**CENTERS OF** 

### **BUILDING F DRAWINGS**

### EP601 (see attached sheet)

- 1. Changed all branch circuit panels from main lugs only to main circuit breaker panels.
  - 2. Added panel LE2.

#### EP602 (see attached sheet)

- 1. Added panel AIC ratings to panel schedules.
- 2. Changed branch panels to have main circuit breakers.
- 3. Updated panel schedules.

#### EP603 (see attached sheet)

- 1. Added panel AIC ratings to panel schedules.
- 2. Changed branch panels to have main circuit breakers.
- 3. Updated panel schedules.
- 4. Added panel schedule for panel LE2.

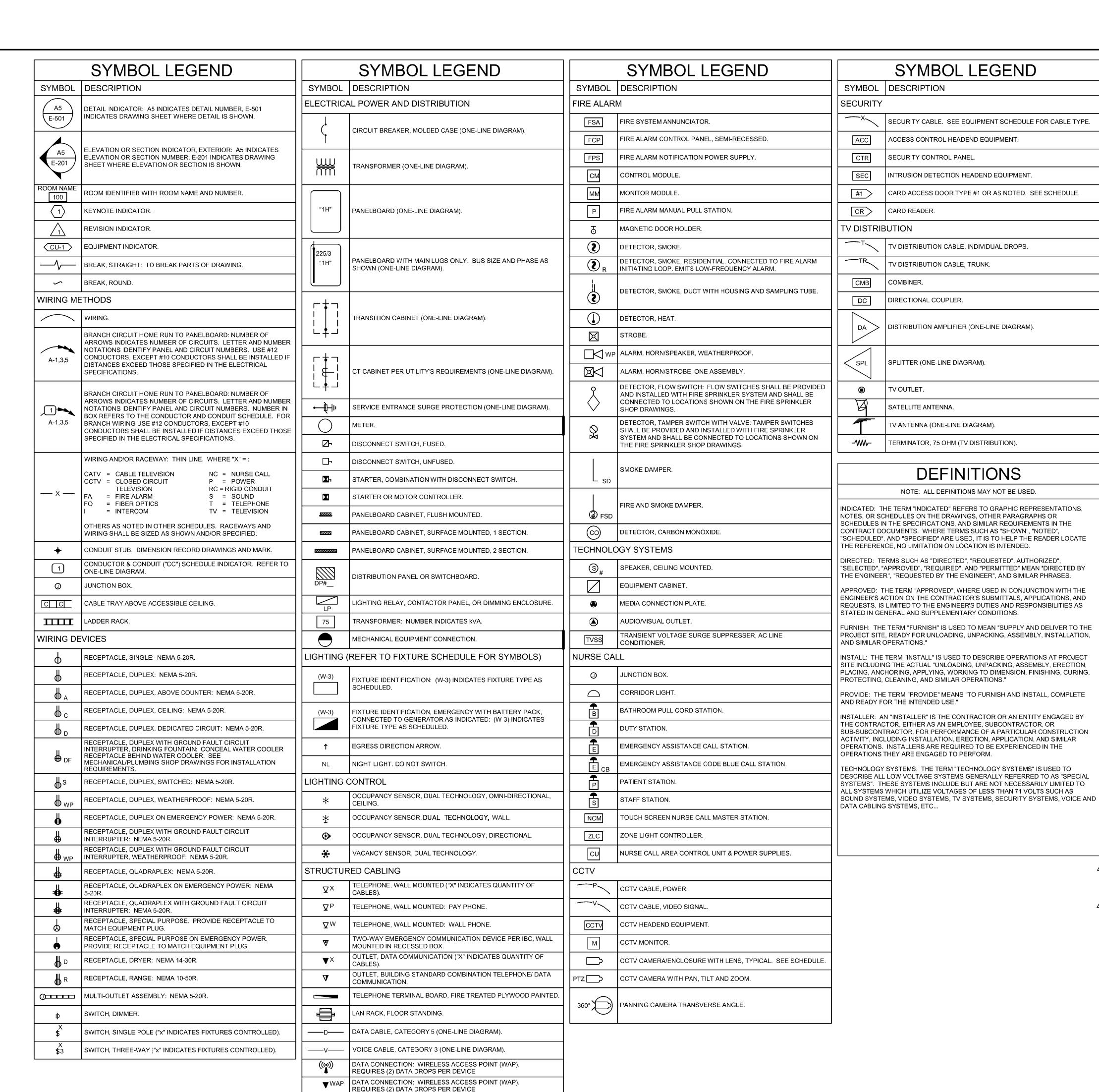
SALT LAKE CITY 324 S. State Street Suite 400 Salt Lake City, UT 84111 phone: 801-328-5151

fax: 801-328-5155

#### **PHOENIX**

1501 W. Fountainhead Parkway Suite 340 Tempe, AZ 85282 phone: 480-621-3444 fax: 480-621-3445

www.spectrum-engineers.com 800-678-7077



GENERAL ELECTRICAL NOTES

SYMBOL LEGEND

ACCESS CONTROL HEADEND EQUIPMENT.

INTRUSION DETECTION HEADEND EQUIPMENT

TV DISTRIBUTION CABLE, INDIVIDUAL DROPS

DISTRIBUTION AMPLIFIER (ONE-LINE DIAGRAM)

TV DISTRIBUTION CABLE, TRUNK.

DIRECTIONAL COUPLER.

SPLITTER (ONE-LINE DIAGRAM).

TV ANTENNA (ONE-LINE DIAGRAM).

TERMINATOR, 75 OHM (TV DISTRIBUTION).

**DEFINITIONS** 

NOTE: ALL DEFINITIONS MAY NOT BE USED.

SECURITY CONTROL PANEL.

CARD READER.

COMBINER.

TV OUTLET.

SATELLITE ANTENNA

SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.

CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE SCHEDULE.

CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.

OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF

INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.

B. THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES. AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.

DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE. THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.

EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.

SUBMITTALS: PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, BOOKMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED. JOB NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE

REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

ALL WORK SHALL BE DONE ACCORDING TO THE CURRENT NATIONAL ELECTRIC CODE (NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE AHJ.

INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.

A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE

WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR C. THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY

INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.

ELECTRICAL SHEET INDEX

SHEET NO	SHEET TITLE
EE001	SYMBOL SCHEDULE, SHEET INDEX
ES101	ELECTRICAL SITE PLAN
EP11F	POWER PLAN - BUILDING 'F'
EP401	TYPICAL POWER PLANS
EP501	DETAILS
EP502	DETAILS
EP503	DETAILS
EP601	ONE LINE DIAGRAM
EP602	PANEL SCHEDULES
EP603	PANEL SCHEDULES
EL11F	LIGHTING PLAN - BUILDING 'F'
EL601	LIGHTING FIXTURE SCHEDULE
EY11F	AUXILIARY PLAN - BUILDING 'F'
EY601	AUXILIARY RISER DIAGRAMS
EY602	AUXILIARY RISER DIAGRAMS
EY603	AUXILIARY RISER DIAGRAMS
FA11F	FIRE ALARM PLAN - BUILDING 'F'
FA601	FIRE ALARM RISER DIAGRAM

Welch Architect Donald

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for New **Brighton** Recovery Campus 4905, 4911, 4915, 4925, 4931, & 4953 South 900

Salt Lake County, Utah

January 04, 2017

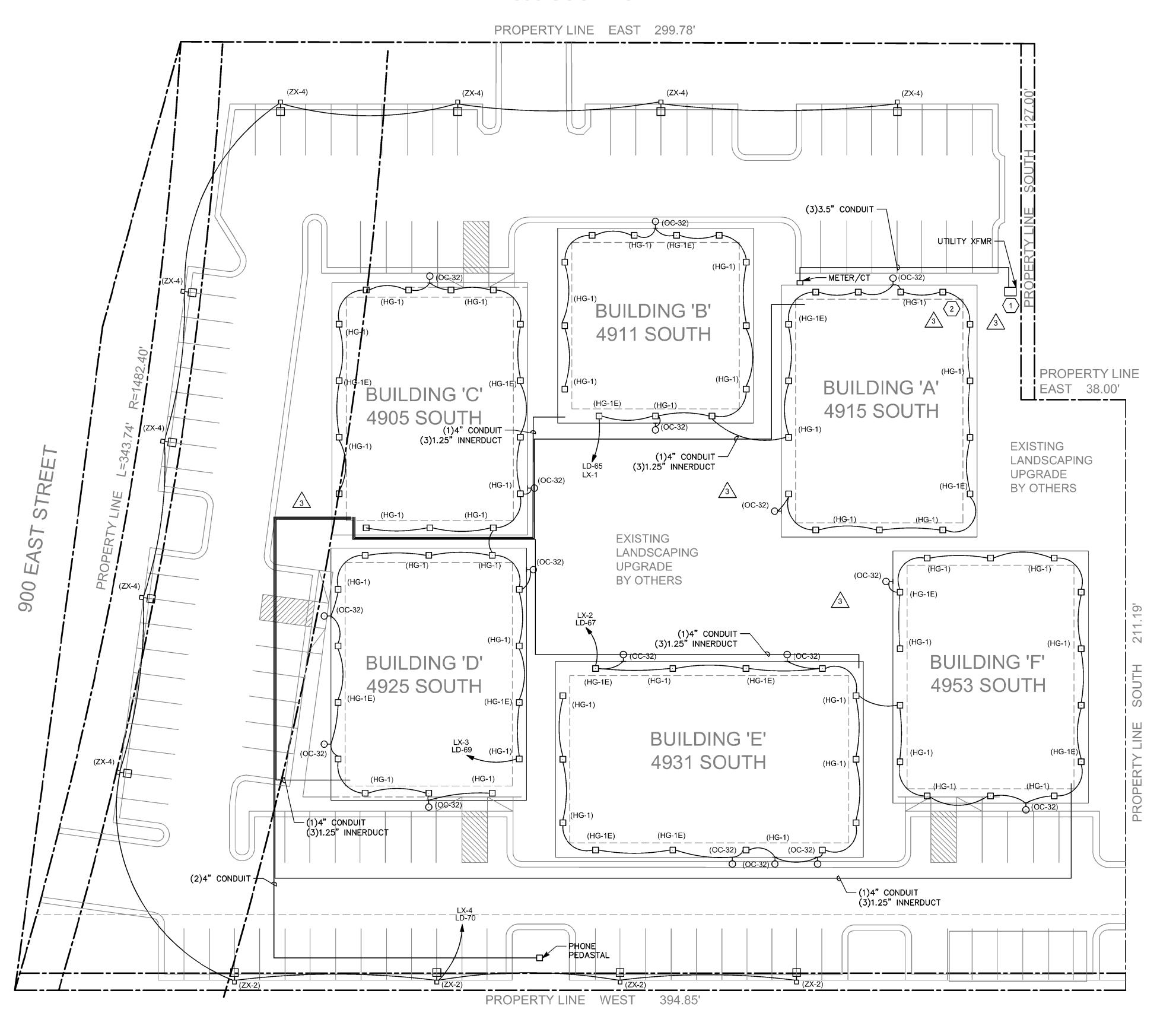
revisions

PERMIT SET-December 28, 2016 **⊈**ADDENDUM #2-January 06, 2017 ADDENDUM #4-January 17, 2017 ADDENDUM #7-February 24, 2017 ADDENDUM #8-March 20, 2017

drawn by: checked by:

SCHEDULE

### 4895 SOUTH STREET



## GENERAL SHEET NOTES

## ○ SHEET KEYNOTES

- 1. EXISTING ROCKY MOUNTAIN TRANSFORMER. COORDINATE WITH ROCKY MOUNTAIN POWER TO DETERMINE IF THE EXISTING TRANSFORMER NEEDS TO BE REPLACED.
- THE EXISTING ELECTRICAL ROOM IS LOCATED IN NORTHEAST CORNER OF BUILDING A. ALL OF THE ELECTRICAL EQUIPMENT IN THIS ROOM IS TO BE DEMOLISHED, INCLUDING THE ELECTRICAL PANEL AND METER CENTER. REMOVE ALL ASSOCIATED WIRING BACK TO THE UTILITY TRANSFORMER.

Donald L. Welch Architect 3 Sandy Land Lar dvale, Utah 8404

Archi 7533 Sandy I Midvale, Ut

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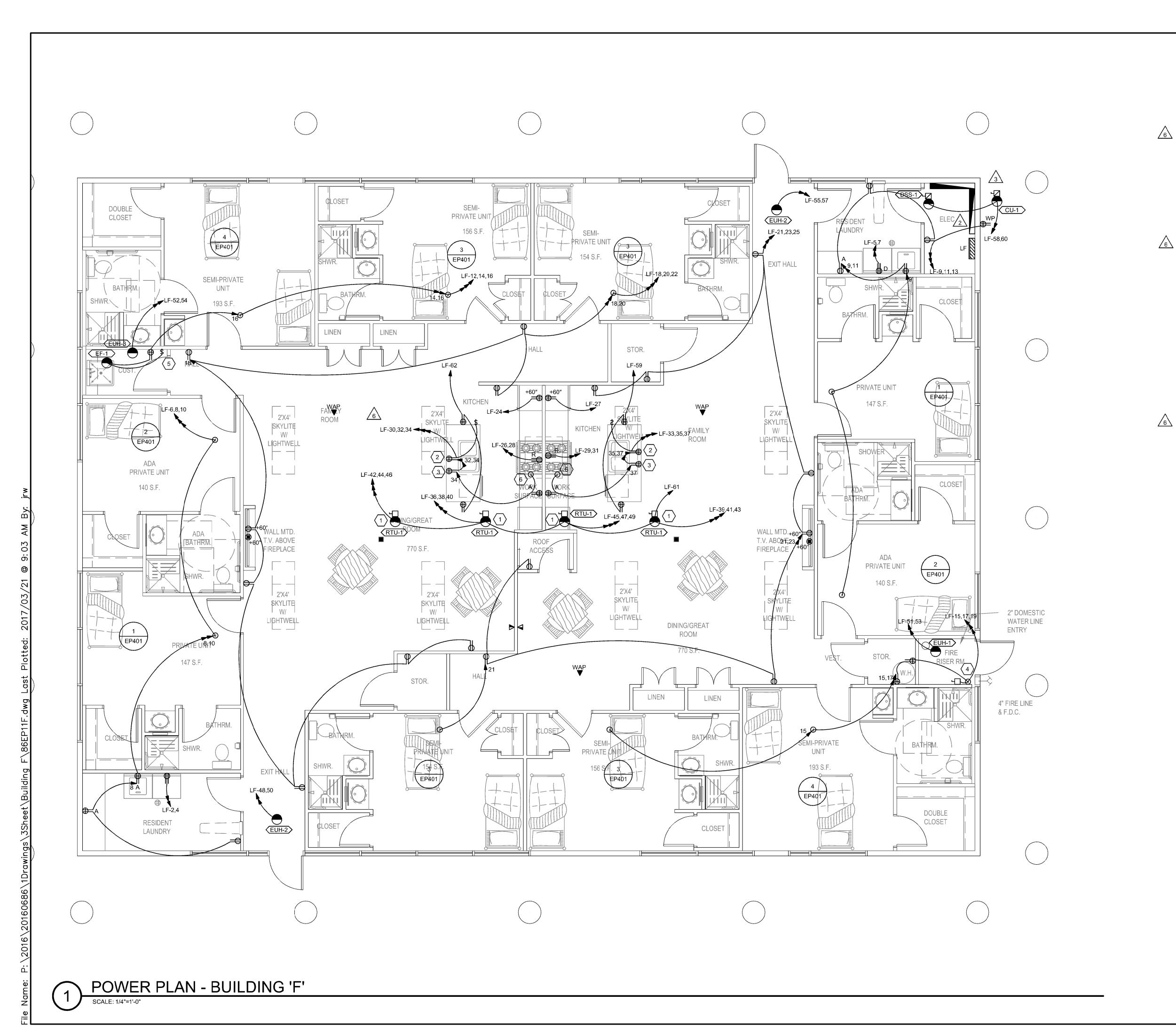
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ELECTRICAL SITE PLAN

ES1 01

1 ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"



### GENERAL SHEET NOTES

1. ALL BRANCH CIRCUITS FEEDING 15 AMP OR 20 AMP RECEPTACLES SHALL BE PROTECTED BY AN ARC FAULT CIRCUIT INTERRUPTER (ACFCI) TYPE CIRCUIT BREAKER.

2. ALL RECEPTACLES SHALL BE TAMPER RESISTANT.

## ○SHEET KEYNOTES

RTU LOCATED ON ROOF. PROVIDE 208/3
DEDICATD CIRCUIT FOR EACH RTU AND A
120/1 CIRCUIT FOR ALL CONVENIENCE
OUTLETS INTEGRAL WITH RTU.

- 2. PROVIDE DEDICATED 120V SWITCHED CIRCUIT FOR GARBAGE DISPOSAL.
- 3. PROVIDE DEDICATED 120V CIRCUIT FOR DISHWASHER.
- 4. PROVIDE DEDICATED 120V CIRCUIT AND A 30/3P DISCONNECT FOR FIRE ENTRY FLOW SWITCH AND AIR COMPRESSOR.
- 5. PROVIDE A 20A/1P SWITCH TO CONTROL CUSTODIAN EXHAUST FAN.

6. PROVIDE 120V CIRCUIT AS SHOWN FOR EXHAUST HOOD.

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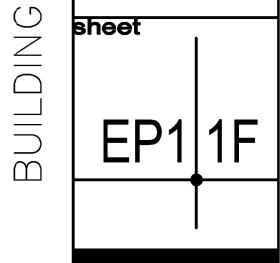
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POWER PLAN -

BUILDING 'F'

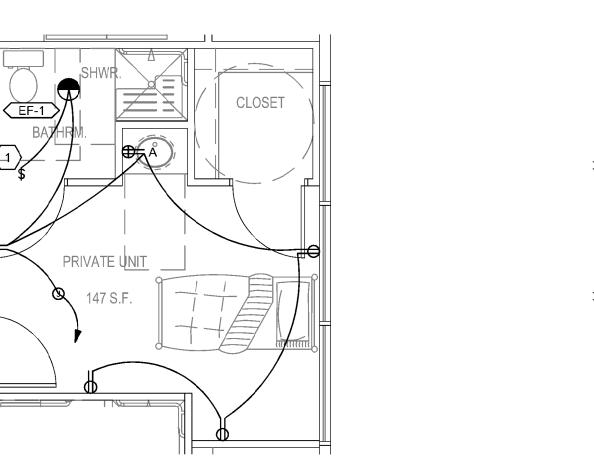


## GENERAL SHEET NOTES

- ALL BRANCH CIRCUITS FEEDING 15 AMP OR 20 AMP RECEPTACLES SHALL BE PROTECTED BY AN ARC FAULT CIRCUIT INTERRUPTER (ACFCI) TYPE CIRCUIT BREAKER.
- ALL RECEPTACLES SHALL BE TAMPER RESISTANT.

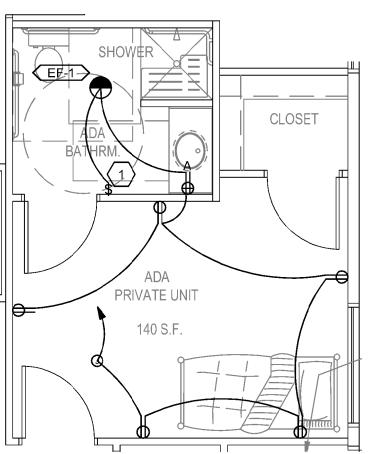
## ○SHEET KEYNOTES

PROVIDE A 20A/1P SWITCH TO CONTROL BATHROOM EXHAUST FAN.



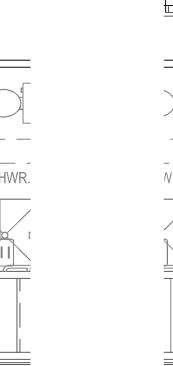
TYPICAL PRIVATE UNIT POWER PLAN

SCALE: 1/4"=1'-0"



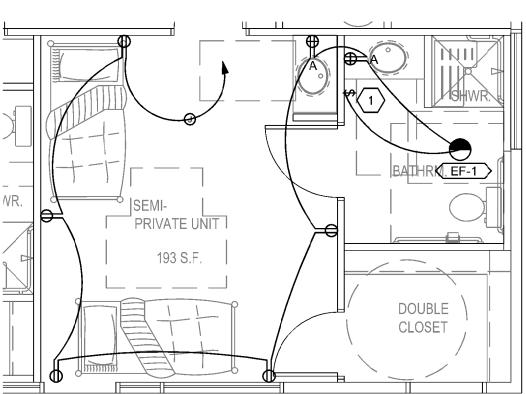
TYPICAL ADA PRIVATE UNIT POWER PLAN

SCALE: 1/4"=1'-0"



TYPICAL SEMI-PRIVATE 3 UNIT POWER PLAN

SCALE: 1/4"=1'-0"



TYPICAL ADA SEMI-PRIVATE 4 UNIT POWER PLAN

SCALE: 1/4"-41 O"

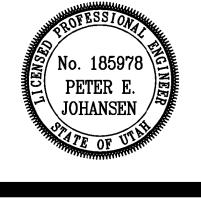
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Architect

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Salt Lake County, Utah

January 04, 2017

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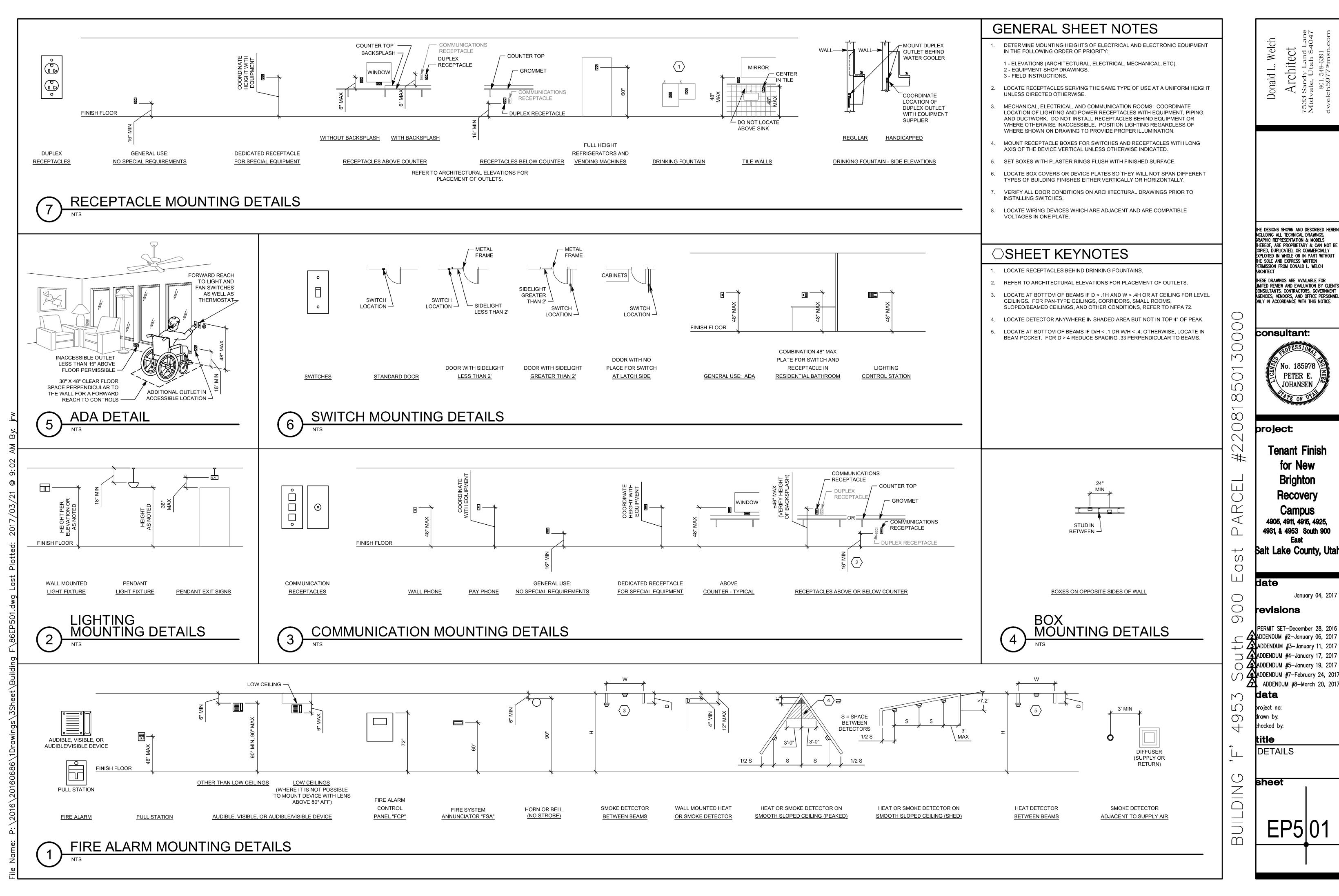
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TYPICAL POWER PLANS

sheet

EP4|01



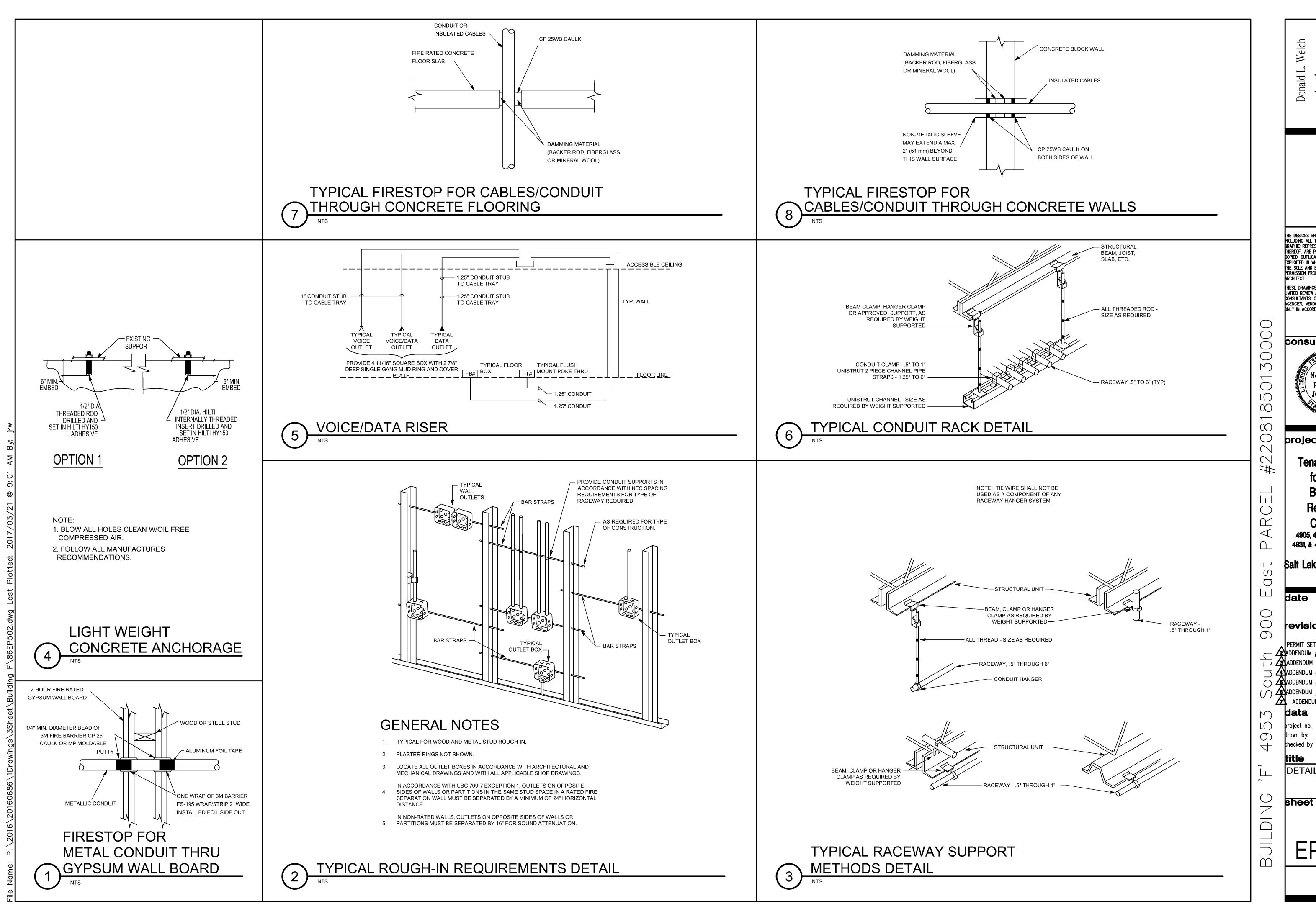
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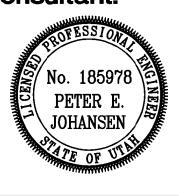


Donald L. Welch Architect

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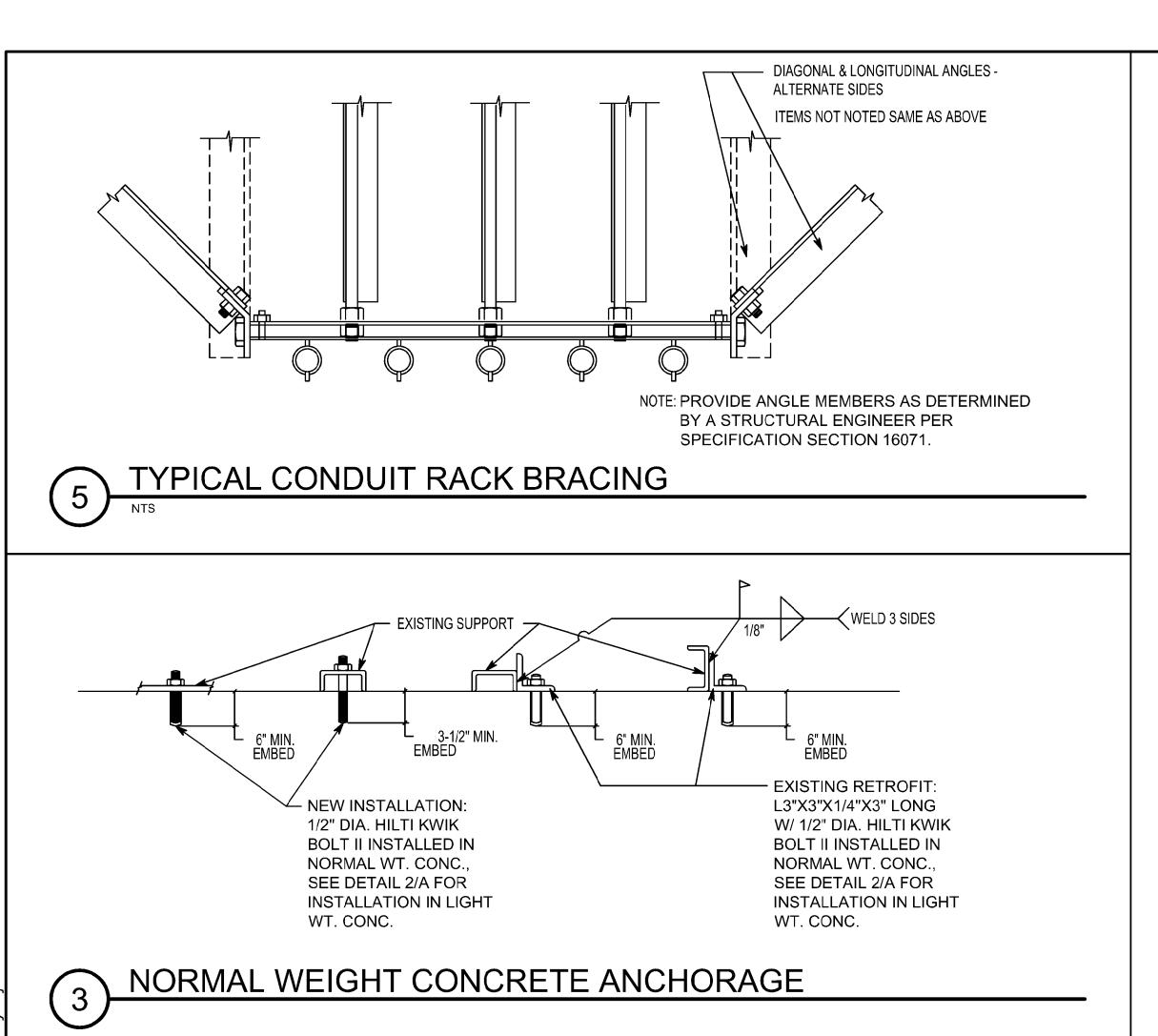
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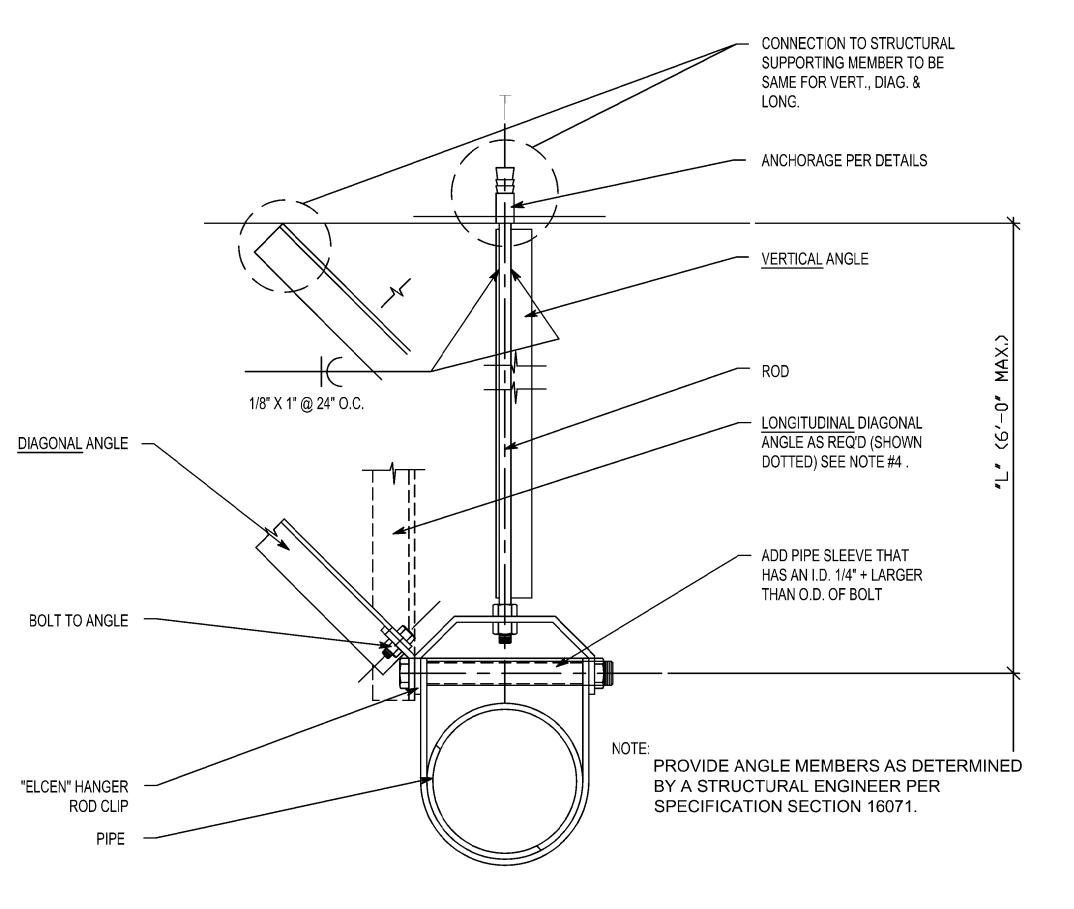
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DETAILS

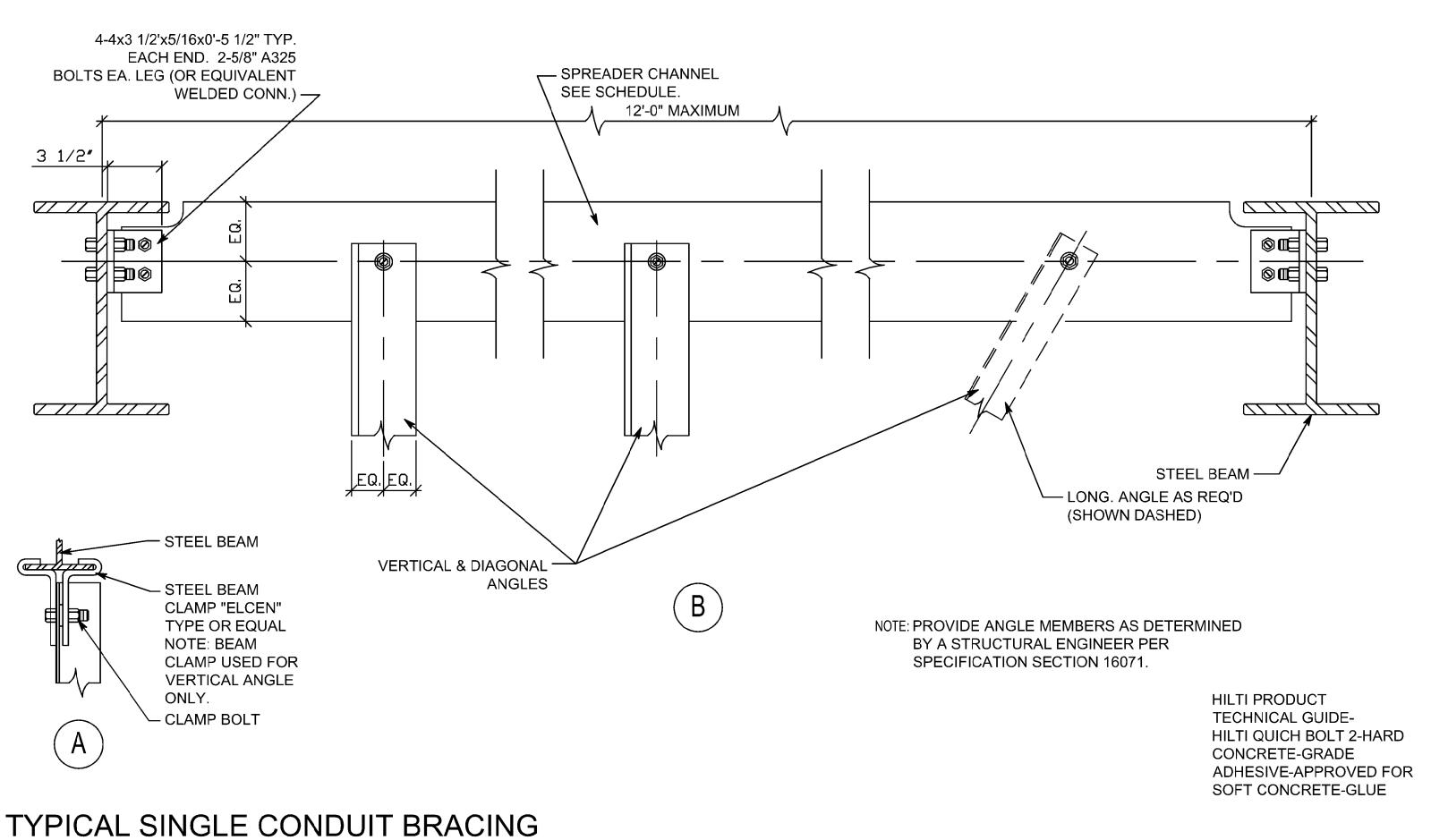


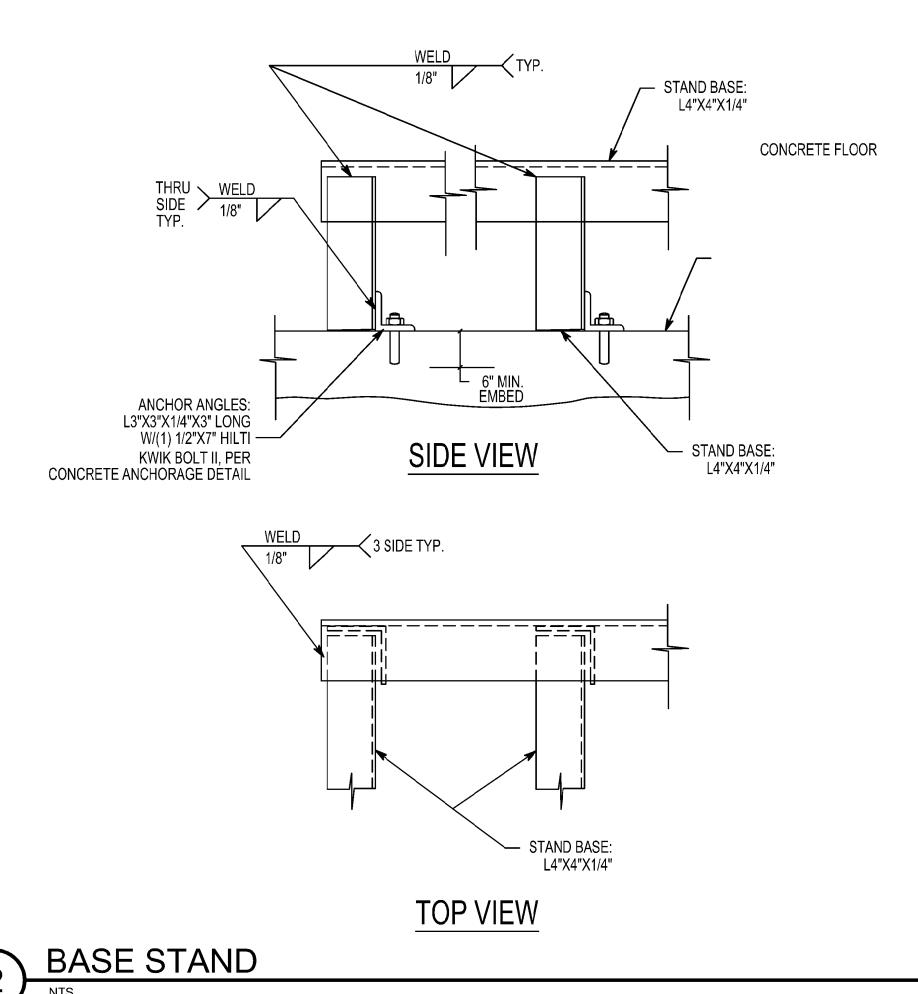


TYPICAL SINGLE CONDUIT BRACING

SEISMIC BRACING GENERAL NOTES

- 1. BRACE ALL CONDUIT WITH 2 1/2" I.D. AND LARGER, AND ALL BUSWAY, CABLE TRAY AND CONDUIT RACKS.
- 2. DETAILS SHOWN PROVIDE A LATERAL BRACING SYSTEM. A TYPICAL VERTICAL SUPPORT SYSTEM MUST ALSO BE USED. HOWEVER, WHERE BRACE OCCURS THE VERTICAL ANGLE SHOWN MAY REPLACE A TYPICAL VERTICAL SUPPORT.
- TRANSVERSE BRACING AT 30'-0" O.C. MAX.
- 4. LONGITUDINAL BRACINGS AT 60'-0" O.C. MAX.
- TRANSVERSE BRACING FOR ONE CONDUIT OR BUSWAY SECTION MAY ALSO ACT AS LONGITUDINAL BRACING FOR THE CONDUIT OR BUSWAY SECTION CONNECTED PERPENDICULAR TO IT, IF THE BRACING IS INSTALLED WITHIN 24" OF THE ELBOW OR TEE AND SIMILAR SIZE.
- 6. DO NOT USE BRANCH LINES TO BRACE MAIN LINES.
- PROVIDE FLEXIBILITY IN JOINTS WHERE PIPES PASS THROUGH BUILDING SEISMIC OR EXPANSION JOINTS, OR WHERE RIGIDLY SUPPORTED PIPES CONNECT TO EQUIPMENT WITH VIBRATION ISOLATORS.
- AT VERTICAL CONDUIT AND BUSWAY RISERS, WHEREVER POSSIBLE, SUPPORT OF WEIGHT OF THE RISER AT A POINT OR POINTS ABOVE THE CENTER OF GRAVITY OF THE RISER. PROVIDE LATERAL GUIDES AT THE TOP AND BOTTOM OF THE RISER, AND AT INTERMEDIATE POINTS NOT TO EXCEED 30'-0" ON CENTER.
- PROVIDE LARGE ENOUGH CONDUIT SLEEVES THROUGH WALLS OR FLOORS TO ALLOW FOR ANTICIPATED DIFFERENTIAL MOVEMENTS.
- 10. DO NOT FASTEN ONE RIGID CONDUIT OR BUSWAY SYSTEM TO TWO DISSIMILAR PARTS OF A BUILDING THAT MAY RESPOND IN A DIFFERENT MODE DURING AN EARTHQUAKE: FOR EXAMPLE, A WALL AND A ROOF.
- 11. REFER TO SPECIFICATIONS AND MANUFACTURER'S LITERATURE FOR ADDITIONAL REQUIREMENTS.





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Architect

4931, & 4953 South 900 Salt Lake County, Utah

January 04, 2017

**Brighton** 

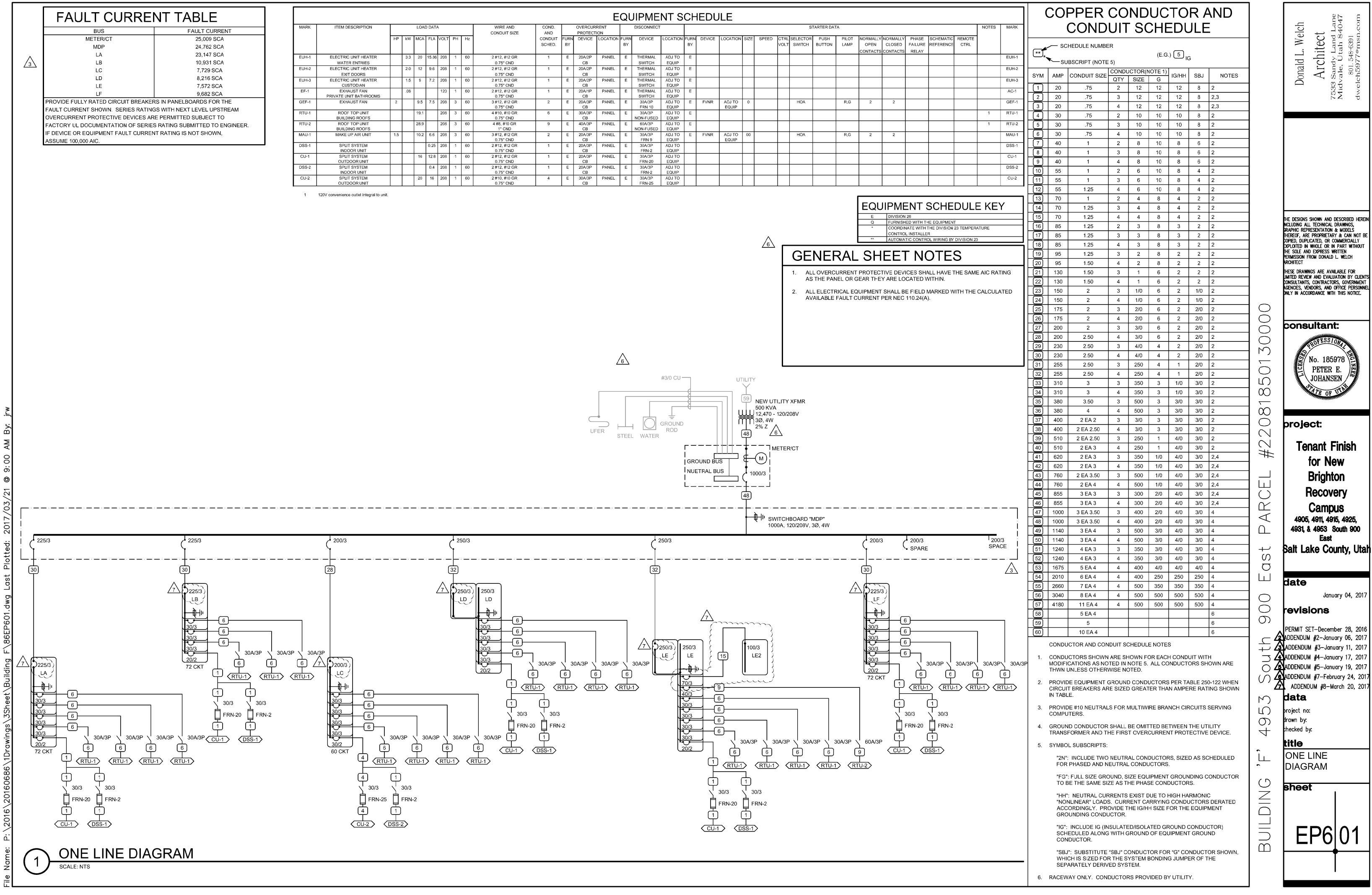
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TOTAI	LS:					CONNECTED kVA PER F			163	166					IECTED				
						CONNECTED AMPS PER F	PHASE	1381	1360	1383		CONN	NECTED AVE	ERAGE	AMPS	PER P	'HASE	1375	
NEC I	- · · · - · · -				ULATIO														
1	LIGHTING 27kVA @125% = 33 kVA							DS @10					IVERSII						
,	RECEPTACLES 10kVA @100% = 10 kVA						25°	% OF L	ARGE	ST MOT	ſOR =	0 kVA		AVER/	AGE AN	MPS PF	£R PH/	ASE =	1212
	REM/	IAINDEF	ス 130k'	VA @	50% =	65 kVA													

						<u></u>	(P/	٩N	EL	"L	<b>A</b> "	3						
VOLT	S/PHAS	SE/WIF	 RE:			PANEL SIZE & TYPE:	TMAIN	SIZE 8	TYPE	<u> </u>		LOCATION:	AIC R	ATING	:	NOTE	 S:	
	08 V, 3					22" W x 6" D, BOLT-ON		МР МА					42,00					
ACCE	SSORI	ES:	PANE	L DIRE	CTOR	Y, IDENTIFICATION, GROUNDING BA	AR, INS	ULATE	D GRO	UND B	AR		<u>'</u>					
CKT	OCP			AD (kV		DESCRIPTION	LCL	1	ASE LO		LCL	DESCRIPTION	LC	OAD (k\	/A)	OCP		СКТ
NO	AMP	POLE			PWR		kVA	A	В	С	kVA		LTG	<del>- `</del>		AMP	POLE	
1	20	1	1.3			LIGHTING	1.6	2.3			1.0	WASHER LAUNDY A127		1.0		20	1	2
3	20	1	1.5			LIGHTING	1.9		1.9		0.4	CO LAUNDRY A127		0.4		20	1	4
5	30	2			1.3	DRYER LAUNDRY A101	1.3			2.6	1.3	DRYER LAUNDRY A127			1.3	30	2	6
7	-	-			1.3	-	1.3	2.6			1.3	-			1.3	-	-	8
9	20	1		1.0		WASHER LAUNDY A101	1.0		2.6		1.6	ROOMS A126, A125		1.4	0.2	20	1	10
11	20	1		1.4	0.2	ROOMS A103, A104	1.6			1.9	0.3	CUSTODIAN		0.2	0.1	20	1	12
13	20	1		8.0		CO ROOMS A101, A102	0.8	2.0			1.2	RM A122		1.1	0.1	20	1	14
15	20	1		0.6	0.6	WH/PUMP/FIRE COMP.	1.2		2.4		1.2	RM A119		1.1	0.1	20	1	16
17	20	1		1.1	0.1	RM A107	1.2			1.8	0.6	CO STORAGE/DINING A130		0.6		20	1	18
19	20	1		1.1	0.1	RM A110	1.2	2.1			0.9	CO FAMILY ROOM A131		0.9		20	1	20
21	20	1		1.1	0.1	RM A111	1.2		2.4		1.2	RM A118		1.1	0.1	20	1	22
23	20	1		0.9		CO RF ACCS, DINING A113	0.9			3.3	2.4	RANGE KITCHEN A132			2.4	50	2	24
25	20	1		0.6		CO FAMILY ROOM/STOR.	0.6	3.0			2.4	-			2.4	-	-	26
27	50	2			2.4	RANGE KITCHEN A115	2.4		3.4		1.0	REFRIGERATOR A132		1.0		20	1	28
29	-	-			2.4	-	2.4			2.6	0.2	CO KITCHEN A132		0.2		20	1	30
31	20	1		1.0		REFRIGERATOR A115	1.0	2.0			1.0	DISWASHER A132			1.0	20	1	32
33	20	1		0.2		CO KITCHEN A115	0.2		1.2		1.0	GARBAGE DISP. A132			1.0	20	1	34
35	20	1			1.0	DISHWASHER A115	1.0			2.9	1.9	RTU-1			1.9	30	3	36
37	20	1			1.0	GARBAGE DISP. A115	1.0	2.9			1.9	-			1.9	-	-	38
39	30	3			1.9	RTU-1	1.9		3.8		1.9	-			1.9	-	-	40
41	-	-			1.9	-	1.9			3.8	1.9	RTU-1			1.9	30	3	42
43	-	-			1.9	-	1.9	3.8			1.9	-			1.9	-	-	44
45	30	3			1.9	RTU-1	1.9		3.8		1.9	-			1.9	-	-	46
47	-	-			1.9	-	1.9			2.7	0.8	EUH-3			0.8	20	2	48
49	-	-			1.9	-	1.9	2.7			0.8	-			0.8	-	-	50
51	20	1			1.0	EUH-2	1.0		2.0		1.0	EUH-2			1.0	20	2	52
53	20	1			1.0	-	1.0			2.0	1.0	-			1.0	-	-	54
55	20	1			1.7	EUH-1	1.7	2.0			0.4	EGRESS LIGHTING	0.3			20	1	56
57	20	1			1.7	-	1.7		3.4		1.7	CU-1/DSS-1			1.7	20	2	58
59	20	1		0.4		KITCHEN ISLAND CO	0.4			2.1	1.7	-			1.7	-	-	60
61	20	1		8.0		RTU CO's	0.8	1.2			0.4	KITCHEN ISLAND CO		0.4		20	1	62
63	20	1			1.0	SMOKE DETECTORS	1.0		1.0		0.0	SPARE				20	1	64
65	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	66
67	20	1				SPARE	0.0	0.0			0.0	SPARE				20	1	68
69	20	1				SPARE	0.0		0.0		0.0	SPARE				20	1	70
71	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	72
TOTA	LS:				-	CONNECTED kVA PER	PHASE	27	28	26	•		CONN	ECTE	TOTA	L kVA	80	
	CONNECTED AMPS PER PHASE 221 232 213 CONNECTED AVERAGE AMPS PER PHASE 222																	
NEC I	DIVERS							_	_									
			NG 3k	_		4 kVA		OTHE		~		57 kVA		IVERSI				77
RECEPTACLES 10kVA @100% = 10 kVA							25	% OF L	ARGE	ST MO	TOR =	2 kVA	AVER	AGE AI	MPS PE	R PHA	SE =	215
	REM	1AINDE	ER 10k'	VA @ :	50% =	5 kVA												

VOLT	S/PHAS	SE/WIF	 ₹E:			PANEL SIZE & TYPE:	MAIN	SIZE &	TYPE:		T	LOCATION:	AIC R	ATING		NOTE	S:	
	08 V, 3					22" W x 6" D. BOLT-ON		MP MA					22,000				-	
	SSORI			L DIRE		Y, IDENTIFICATION, GROUNDING B.				UND B	AR. SU	BFEED LUGS						
СКТ	OCP			AD (kV		DESCRIPTION	TLCL		ASE LC		LCL	DESCRIPTION	LO	AD (k\	/A)	OCP		Ck
NO		POLE					kVA	A	В	С	kVA		LTG	<b>`</b> _	PWR	AMP	POLE	N
1	20	1	1.3			LIGHTING	1.6	2.6			1.3	DRYER LAUNDRY B125			1.3	30	2	2
3	20	1	1.3			LIGHTING	1.6		2.6		1.3	-			1.3	-	_	4
5	30	2			1.3	DRYER LAUNDRY B101	1.3			1.7	0.4	CO LAUNDRY B125		0.4		20	1	6
7	-	-			1.3	-	1.3	2.3			1.0	WASHER B125		1.0		20	1	8
9	20	1		1.4	0.2	ROOMS B104, B105	1.6		3.2		1.6	ROOMS B12, B123		1.4	0.2	20	1	1
11	20	1		1.0		WASHER LAUNDRY B101	1.0			2.3	1.3	WH/PUMP/FIRE COMP		1.3		20	1	1
13	20	1		0.8		CO ROOMS B101, B102	0.8	2.0			1.2	ROOM B119		1.1	0.1	20	1	1
15	20	1		0.2	0.1	CO & EF-1 CUST B106	0.3		1.5		1.2	ROOM B117		1.1	0.1	20	1	1
17	20	1		1.1	0.1	ROOM B108	1.2			2.2	1.0	REFRIGERATOR B129		1.0		20	1	1
19	20	1		1.1	0.1	ROOM B111	1.2	1.7			0.5	CO DINING B127		0.5		20	1	2
21	20	1		0.5		CO FAMILY RM B114	0.5		1.3		0.8	CO FAMILY/STOR. B128,B121		0.8		20	1	
23	20	1		0.8		CO DINING RM B113	0.8			3.2	2.4	RANGE B129			2.4	50	2	
25	20	1		1.0		REFRIGERATOR B115	1.0	3.4			2.4	-			2.4	-	_	2
27	50	2			2.4	RANGE B115	2.4		3.4		1.0	GARBAGE DISP.			1.0	20	1	2
29	-	_			2.4	-	2.4			3.4	1.0	DISHWASHER B129			1.0	20	1	3
31	20	1		0.2		CO KITCHEN B115	0.2	0.4			0.2	CO KITCHEN B129		0.2		20	1	3
33	20	1			1.0	DISHWASHER B115	1.0		2.9		1.9	RTU-1			1.9	30	3	3
35	20	1			1.0	GARBAGE DISP. B115	1.0			2.9	1.9	-			1.9	-	_	3
37	30	3			1.9	RTU-1	1.9	3.8			1.9	-			1.9	-	_	3
39	-	-			1.9	-	1.9		2.9		1.0	EUH-2			1.0	20	2	4
41	-	-			1.9	-	1.9			2.9	1.0	-			1.0	-	-	4
43	30	3			1.9	RTU-1	1.9	2.7			0.8	EUH-3			0.8	20	2	4
45	-	-			1.9	-	1.9		2.7		0.8	-			0.8	-	-	4
47	-	-			1.9	-	1.9			3.6	1.7	EUH-1			1.7	20	-	4
49	20	2			0.8	EUH-3	0.8	2.5			1.7	-			1.7	-	-	5
51	-	-			0.8	-	0.8		1.1		0.4	EGRESS LIGHTING	0.3			20	1	- 5
53	20	2			1.0	EUH-2	1.0			2.7	1.7	CU-1/DSS-1			1.7	20	2	5
55	-	-			1.0	-	1.0	2.7			1.7	-			1.7	-	-	5
57	20	1		0.4		KITCHEN ISLAND CO	0.4		0.8		0.4	KITCHEN ISLAND CO		0.4		20	1	5
59	20	1		0.6		RTU CO'S	0.6			1.6	1.0	SMOKE DETECTORS			1.0	20	1	6
61	20	1				SPARE	0.0	0.0			0.0	SPARE				20	1	6
63	20	1				SPARE	0.0		0.0		0.0	SPARE				20	1	6
65	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	6
67	20	1				SPARE	0.0	0.0			0.0	SPARE				20	1	6
69	20	1				SPARE	0.0		0.0		0.0	SPARE				20	1	7
71	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	7
TOTA						CONNECTED kVA PER		24	22	26			CONN	ECTED	TOTA		73	
						CONNECTED AMPS PER		201	187	221		CONNECTED AV					203	

						$\sqrt{7}$	\{ P	INA	EL	"L	C"}	$\frac{\sqrt{3}}{2}$						
		SE/WIR				PANEL SIZE & TYPE: 22" W x 6" D, BOLT-ON	MAIN	<u> </u>	TYPE:	$\overline{}$		LOCATION:	AIC R	ATING	:	NOTE	S:	
	SSOR			DIRE		Y, IDENTIFICATION, GROUNDING B				I IND B	AR SH	REFERINGS	110,000	<u> </u>				
CKT	OCF			AD (kV		DESCRIPTION	LCL		ASE LC		LCL	DESCRIPTION	T 10	AD (k\	/Δ)	OCP	$\overline{}$	Ck
NO		POLE	LTG	co		DEGORII TIGIV	kVA	A	В	C	kVA	BEGORII HON	LTG	<del></del>	<u> </u>	AMP		N
1	20	1	1.5		1 4417	LIGHTING	1.9	2.3			0.8	CO FIRE RM/FIRE COMP	1 -10	0.2	0.6	20	1	2
3	20	1	1.2			LIGHTING	1.5	2.0	2.0		0.8	GROUP ROOM C127	+	0.8	0.0	20	1	
5	20	1	1.0			LIGHTING	1.3		2.0	1.8	0.8	GROUP ROOM C126		0.8		20		-
7	20	1	1.0	8.0		CO RECPTION C122	0.8	2.0		1.0	1.2	GROUP ROOM C130,128		1.2		20		
9	20	1		1.6		CO OFFICES C117, C116	1.6	2.0	2.4		0.8	GROUP ROOM C130,128	+	0.8		20	1	1
	20	1		1.4		<u> </u>	1.4		2.4	2.4	1.0		+	0.8	0.8	20	1	1
11		1				CO OFFICES C115, C114		1.6		2.4		WH/PUMP/CO CUST C133	+	0.2	0.6		1	
13	20	1		8.0		CO CUBICLES	0.8	1.6	4.0		0.8	CO CUBICLES	_			20	1	1
15	20	1		0.8		CO OFFICE C106	0.8		1.8	0.0	1.0	COPIER COPY C121	+	1.0	0.0	20	1	1
17	20	1		1.4		CO OFFICES C107, C108	1.4	0.4		2.8	1.4	CO C129, C125, C132	+	1.2	0.2	20	1	1
19	20	1		1.0		REFRIGERATOR C113	1.0	2.4	0.4		1.4	CO CORR C118, 109, 102	+	1.4	4.0	20	1	2
21	20	1		0.2		CO BREAK ROOM C113	0.2		2.1		1.9	RTU-1			1.9	30	3	2
23	20	1		0.2		CO BREAK ROOM C113	0.2			2.1	1.9	<u>-</u>	-		1.9	-		2
25	20	1		1.0		CO MEDS C112	1.0	2.9			1.9	-			1.9		-	2
27	20	1		0.4		CO MEDS C112	0.4		2.3		1.9	RTU-1			1.9	30	3	2
29	20	1		8.0		CO BREAK ROOM C113	0.8			2.7	1.9	-			1.9		-	3
31	20	1		0.4		CO LAB C111	0.4	2.3			1.9	-			1.9			3
33	20	1		0.2		CO LAB C111	0.2		1.2		1.0	EUH-2			1.0	20	2	3
35	20	1		1.0		REFRIGERATOR C111	1.0			2.0	1.0	-			1.0	-		3
37	30	3			1.9	RTU-1	1.9	3.6			1.7	EUH-1			1.7	20	2	3
39	-	-			1.9	-	1.9		3.6		1.7	-			1.7	-		4
41	-	-			1.9	<u>-</u>	1.9			2.3	0.5	EGRESS LIGHTING	0.4			20	1	4
43	30	3			1.9	RTU-1	1.9	2.5			0.6	CO ELEC C115A		0.6		20	1	4
45	-	-			1.9	<u>-</u>	1.9		4.0		2.1	CU-2/DSS-2			2.1	30	2	4
47	-	-			1.9	<u>-</u>	1.9			4.0	2.1	-			2.1		_	4
49	20	2			1.0	EUH-2	1.0	1.6			0.6	RTU CO'S		0.6		20	1	5
51	-	-			1.0	-	1.0		2.4		1.4	CO CUBICLES		1.4		20	1	5
53	20	1				SPARE	0.0			1.4	1.4	CO CUBICLES		1.4		20	1	5
55	20	1				SPARE	0.0	0.0			0.0	SPARE				20	1	5
57	20	1				SPARE	0.0		0.0		0.0	SPARE				20	1	5
59	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	6
ТОТА	LS:					CONNECTED kVA PER	PHASE	21	22	21			CONN	ECTE	TOTA	L kVA	64	
						CONNECTED AMPS PER	PHASE	177	182	179	ARC	CONNECTED AV	'ERAGE	AMPS	PER P	HASE	179	
NEC [		SIFIED						OT: :-:	0101	20.04	2001	00 11/4	ь.	\/E50		OT4: :	A (A	_
	RECE	LIGHTI	NG 4k\	/A @12	∠5% =	5 kVA	ALL	OTHE	r loai	JS @10	JU% =	36 kVA	וט	VERSI	FIED T	JIAL k	.va =	5

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, SKAPHIC REPRESENTATION & MODELS THEREOF, ARE PROPRIETARY & CAN NOT BE COPIED, DUPLICATED, OR COMMERCIALLY EXPLOITED IN WHOLE OR IN PART WITHOUT THE SOLE AND EXPRESS WRITTEN PERMISSION FROM DONALD L. WELCH ARCHITECT THESE DRAWINGS ARE AVAILABLE FOR IMITED REVIEW AND EVALUATION BY CLIENTS CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNEL DNLY IN ACCORDANCE WITH THIS NOTICE. 0000 consultant:  $\sim$ #220818501 project: ARCEL Salt Lake County, Utah ast 900 495 BUILDING

January 04, 2017

for New

**Brighton** 

Recovery

Campus

4905, 4911, 4915, 4925, 4931, & 4953 South 900

revisions

Donald L. Welch

Architect

PERMIT SET-December 28, 2016
ADDENDUM #2-January 06, 2017
ADDENDUM #3-January 11, 2017 ADDENDUM #4-January 17, 2017
ADDENDUM #5-January 19, 2017 ADDENDUM #7-February 24, 2017
ADDENDUM #8-March 20, 2017

data

drawn by: checked by:

title PANEL SCHEDULES

						7	P	١N	EL	 "L	D"	3						
VOLT	S/PHAS	SE/WIE	eF·			PANEL SIZE & TYPE:	<u> </u>	SIZE &	$\overline{}$	$\overline{}$		LOCATION:	AIC R	ATING		NOTE	S·	
	08 V, 3					22" W x 6" D, BOLT-ON		MP MA		•			10,00				•	
	SSORI			L DIRE	CTOR	Y, IDENTIFICATION, GROUNDING BA	R, INSL	JLATEI	O GRO	UND B	AR, SL	JBFEED LUGS	<del></del>					
СКТ	OCP		LC	OAD (kV	/A)	DESCRIPTION	LCL	PH/	ASE LC	DAD	LCL	DESCRIPTION	LC	OAD (k\	/A)	OCP		CKT
NO	AMP	POLE	LTG	cò	PWR		kVA	Α	В	С	kVA		LTG	co	PWR	AMP	POLE	NO
1	20	1	1.4			LIGHTING	1.8	2.8			1.4	CO DINING D103		1.4		20	1	2
3	20	1	1.2			LIGHTING	1.5		2.4		1.2	CO COMMON AREA D112		1.2		20	1	4
5	20	1	0.6			LIGHTING	0.8			1.6	1.0	FB WORKOUT RM D113		1.0		20	1	6
7	20	1		0.9		CO RECEPTION D109	0.9	1.9			1.0	FB WORKOUT RM D113		1.0		20	1	8
9	20	1		0.7		WH/PUMP	0.7		1.7		1.0	FB WORKOUT RM D113		1.0		20	1	10
11	20	1		0.9	0.3	CO D108A, D108, D107, D106	1.2			2.2	1.0	CO WORKOUT RM D113		1.0		20	1	12
13	20	1		0.6		CO PNTRY/SERV. D104,105	0.6	1.6			1.0	CO WORKOUT RM D113		1.0		20	1	14
15	20	1		1.0		REFRIGERATOR D105	1.0		2.0		1.0	CO WORKOUT RM D113		1.0		20	1	16
17	20	1		1.3		FREEZER D105	1.3			2.3	1.0	CO WORKOUT RM D113		1.0		20	1	18
19	20	1			1.5	KITCHEN HOOD	1.5	2.5			1.0	CO WORKOUT RM D113		1.0		20	11	20
21	30	2			1.7	SOFT SERVE MACHINE	1.7		2.3		0.6	CO WORKOUT RM D113		0.6		20	11	22
23	-	-			1.7	-	1.7			2.5	8.0	FIRE CO/FIRE COMP D114A		0.2	0.6	20	1	24
25	20	1		0.6		CO KITCHEN D101	0.6	1.4			8.0	CO OFFICE/STOR D115		0.8		20	1	26
27	20	1		1.0		CO KITCHEN D101	1.0		1.8		8.0	CO YOGA STUDIO D114		0.8		20	1	28
29	50	2			4.0	DISHWASHER	4.0			5.0	1.0	CO OFFICE D118		1.0		20	1	30
31	-	-			4.0	-	4.0	4.8			8.0	CO MUSIC ROOM D117		0.8		20	1	32
33	20	1		0.6		SANDWICH/SALAD FRIDGE.	0.6		1.4		8.0	CO ART ROOM D116		0.8		20	1	34
35	20	1		1.0		CO KITCHEN D101	1.0			1.4	0.4	CO COMPUTER LAB D119		0.4		20	1	36
37	20	1		1.8		ESPRESSO MACHINE	1.8	2.2			0.4	CO COMPUTER LAB D119		0.4		20	1	38
39	20	1		1.0		CO KITCHEN D101	1.0		1.4		0.4	CO COMPUTER LAB D119		0.4		20	1	40
41	20	3			0.5	GEF-1	0.5			2.4	1.9	RTU-1			1.9	30	3	42
43	-	-			0.5	-	0.5	2.4			1.9	-			1.9	-	-	44
45	-	-			0.5	-	0.5		2.4		1.9	-			1.9	-	-	46
47	20	3			0.4	MAU-1	0.4			2.3	1.9	RTU-1			1.9	30	3	48
49	-	-			0.4	-	0.4	2.3	2.3		1.9	-			1.9	-	-	50
51 53	- 30	3			0.4 1.9	- RTU-1	0.4 1.9		2.3	2.9	1.9	-	-		1.9	20	2	52 54
55	30	<u>ა</u>			1.9		1.9	2.9		2.9	1.0	EUH-2			1.0	20		56
57	-				1.9	-	1.9	2.9	3.8		1.0	- RTU-1			1.0	30	3	58
59	20	1		1.8	1.9	ICE MAKER	1.8		3.0	3.7	1.9	-			1.9	30	<u> </u>	60
61	20	1		1.0	1.5	ANSUL FIRE PANEL	1.5	3.4		3.7	1.9				1.9			62
63	20	1	0.2		1.5	EGRESS LIGHTING	0.3	5.4	1.9		1.7	EUH-1			1.7	20	2	64
65	20	1	1.5			BLDG A & B CANOPY LTG	1.9		1.0	3.2	1.7	-			1.7	_	<u>-</u>	66
67	20	1	1.5			BLDG E & F CANOPY LTG	1.9	2.5		0.2	1.0	EUH-2			1.0	20	2	68
69	20	1	1.5			BLDG C & D CANOPY LTG	1.9		2.5		1.0	-			1.0			70
71	20	1	0.9			PARKING LOT LTG	1.1			2.6	1.7	CU-1/DSS-1			1.7	20	2	72
73	20	1		0.6		RTU CO'S	0.6	2.3		,	1.7	-			1.7			74
75	20	1				SPARE	0.0		1.0		1.0	EUH-2			1.0	20	1	76
77	20	1				SPARE	0.0			1.0	1.0	-			1.0	20	1	78
79	20	1				SPARE	0.0	0.0		···•	0.0	SPARE				20	1	80
81	20	1				SPARE	0.0		0.0		0.0	SPARE				20	1	82
83	83 20 1 SPARE 0.0 0.0 0.0 SPARE 20 1 84																	
	OTALS: CONNECTED kVA PER PHASE 33 27 33 CONNECTED TOTAL kVA 93																	
						CONNECTED AMPS PER F	PHASE	275	224	276		CONNECTED AV	/ERAGE	AMPS	PER P	HASE	258	
NEC I	DIVERS	SIFIED	LOAD	CALCL	ILATIO	NS												
	LIGHTING 9kVA @125% = 11 kVA ALL OTHER LOADS @100% = 54 kVA DIVERSIFIED TOTAL kVA = 85																	
	RECEF	PTACLE	ES 10k	VA @1	00% =	10 kVA	25%	% OF L	ARGES	ST MO	TOR =	0 kVA	AVER.	AGE AN	MPS PE	ER PHA	SE =	236
	REM	/AINDE	R 21k	VA @	50% =	10 kVA												

							<del></del>			$\sim$	<del>~~</del>							
l						$\sqrt{7}$	(PA	NIF	=	"I F	=つ"							
							<u> </u>	<u> </u>		<u> </u>								
	S/PHAS					PANEL SIZE & TYPE:			TYPE			LOCATION:		ATING	i:	NOTE	S:	
	08 V, 3					22" W x 6" D, BOLT-ON			IN LUC				10,00	0 AIC				
	SSORI					Y, IDENTIFICATION, GROUNDING B.												
CKT	OCP			AD (k\		DESCRIPTION	LCL	<b>-</b>	ASE LC		LCL	DESCRIPTION		DAD (k)	<del>,                                    </del>	OCP		CKT
NO	_	POLE	LTG	co	PWR		kVA	Α	В	С	kVA		LTG		PWR	AMP	POLE	NO
1	20	2			0.8	EUH-3	0.8	1.0			0.2	CO SERVING E140		0.2		20	1	2
3		<u> </u>			0.8	-	0.8		1.0		0.2	CO SERVING E140		0.2		20	1	4
5 20 2 1.0 EUH-2 1.0 2.0 1.0 REFRIGERATOR E140											1.0		20	1	6			
7		<u> </u>			1.0	-	1.0	2.1			1.1	GATHERING/LEARN E136		1.1		20	1	8
9	20	2			0.8	EUH-3	0.8		1.6		0.8	CO A/V E139		0.8		20	1	10
11					0.8	-	0.8			0.8	0.0	SPARE				20	1	12
13	20	2			0.8	EUH-3	8.0	0.8			0.0	SPARE				20	1	14
15	-	-			0.8	-	0.8		0.8		0.0	SPARE				20	1	16
17	20	2			1.7	EUH-1	1.7			1.7	0.0	SPARE				20	1	18
19	_				1.7	-	1.7	1.7			0.0	SPARE				20	1	20
21	20	2			1.0	EUH-2	1.0		1.0		0.0	SPARE				20	1	22
23	_	-			1.0	-	1.0			1.0	0.0	SPARE				20	1	24
25	20	1		0.2	0.6	CO FIRE E135/FIRE COMP.	0.8	0.8			0.0	SPARE				20	1	26
27	20	1		1.0		DRINKING FOUNTAIN	1.0		1.0		0.0	SPARE				20	1	28
29	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	30
31	20	1				SPARE	0.0	0.0			0.0	SPARE				20	1	32
33	20	1				SPARE	0.0		0.0		0.0	SPARE				20	1	34
35	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	36
TOTA	LS:					CONNECTED kVA PER	PHASE	6	5	6			CONN	IECTEI	ATOT C	L kVA	17	
						CONNECTED AMPS PER	PHASE	53	45	46		CONNECTED A	VERAGE	AMPS	PER P	HASE	48	
NEC [	DIVERS	SIFIED	LOAD	CALC	JLATIC	NS												
LIGHTING 0kVA @125% = 0 kVA							ALL	OTHE	R LOAI	DS @1	00% =	13 kVA	D	IVERS	IFIED T	OTAL	(VA =	17
	RECEPTACLES 5kVA @100% = 5 kVA					259	% OF L	ARGE	ST MO	ΓOR =	0 kVA	AVER.	AGE A	MPS PE	R PHA	SE =	48	
REMAINDER 0kVA @ 50% =						0 kVA												

LX													
			AUTOM	IATI¢ CONTROL			OVERRIDE CONT	ROL OT	HER				
RELAY	CIRCUIT	VOLTS	LOAD DESCRIPTION	ON	OFF	SCHEDULE	ON	OFF	CONTROLS	REMARKS			
1	LD	120	BLDG A & B CANOPY LTG	EPC	EPC				EPC				
2	LD	120	BLDG E & F CANOPY LTG										
3	LD	120	BLDG C & D CANOPY LTG	EPC	EPC				EPC				
4	LD	120	PARKING LOT LIGHTING	EPC	EPC				EPC				
5		120	SPARE										
6		120	SPARE										
					_		_	_					

BH = BUSINESS HOURS PER SCHEDULE (EXAMPLE SCHEDULE 1: ON AT 6:00 AM / OFF AT 8:00 PM) - UP TO 6 SCHEDULES PER PANEL AVAILABLE AS SELECTED BY OWNER

SCHEDULE BH-1: LIGHTS ON 7:00 AM / LIGHTS OFF 9:00 PM/MONDAY - FRIDAY EXCLUDING HOLIDAYS

SCHEDULE BH-2: LIGHTS ON 7:00 AM / LIGHTS OFF 10:00 PM / MONDAY - FRIDAY EXCLUDING HOLIDAYS SCHEDULE BH-3: LIGHTS ON 7:00 AM/LIGHTS OFF 11:PM / 7 DAYS/WEEK

SCHEDULE BH-4: ON CONTROL BY EPC / OFF 11:00 PM SCHEDULE BH-5: LIGHT ON 7:00 AM CONTROLLED BY IPC OFF 7:00 PM

SCHEDULE BH-6: NOT USED

EPC = EXTERIOR PHOTO CELL IPC(XXX) = INTERIOR PHOTO CELL. PROVIDE DIMMING CONTROL

LC - OVERRIDE CONTROL WALL SWITCH CONTROL; PUSH ON TURNS CIRCUIT ON FOR AUTO OFF AFTER 30 MINUTES

/OLT	S/PHA	SE/WIF	RE:			PANEL SIZE & TYPE:	MAIN	SIZE 8	TYPE:	:		LOCATION:	AIC R	ATING	:	NOTE	S:	
120/2	08 V, 3	PH 4 V	VIRE			22" W x 6" D, BOLT-ON	250 A	MP MA	IN CB				10,000	0 AIC				
ACCE	SSOR	IES:	PANE	_ DIREC	TOR'	Y, IDENTIFICATION, GROUNDING B	AR, INSI	JLATE	O GRO	UND B	AR, SU	BFEED LUGS						
CKT	OCF	)	LO	AD (kVA	.)	DESCRIPTION	LCL	PH	ASE LC	)AD	LCL	DESCRIPTION	LC	)AD (k\	/A)	OCF	1	
NO	AMP	POLE	LTG	CO I	PWR		kVA	Α	В	С	kVA		LTG	СО	PWR	AMP	POLE	<u> </u>
1	20	1	1.2			LIGHTING	1.5	2.2			1.0	WASHER LAUNDRY E127		1.0		20	1	
3	20	1	1.5			LIGHTING	1.9		2.8		1.3	DRYER LAUNDRY E127			1.3	30	2	
5	20	1	1.0			LIGHTING	1.3			2.3	1.3	-			1.3	-	_	
7	30	2			1.3	DRYER LAUNDRY E101	1.3	2.0			0.7	CO E134, E127		0.6	0.1	20	1	
9	-	-			1.3	<del>-</del>	1.3		2.9		1.6	ROOMS E125,E126		1.4	0.2	20	1	
11	20	1		1.4	0.2	ROOMS E103, E104	1.6			2.8	1.2	ROOM E119		1.1	0.1	20	1	
13	20	1		1.0		WASHER LAUNDRY E101	1.0	2.2			1.2	ROOM E122		1.1	0.1	20	1	
15	20	1		0.6		CO ROOMS E101,E102	0.6		0.9		0.3	CO/EF-1 CUSTODIAN E124		0.2	0.1	20	1	
17	20	1			8.0	WH/PUMP/CO STORAGE	1.0			2.2	1.2	ROOM E118		1.1	0.1	20	1	
19	20	1			0.1	ROOM E107	1.2	2.1			0.9	CO FAMILY ROOM E131		0.9		20	1	
21	20	1			0.1	ROOM E110	1.2		1.8		0.6	CO DINING ROOM E130		0.6		20	1	
23	20	1			0.1	ROOM E111	1.2			2.2	1.0	REFRIGERATOR E132		1.0		20	1	
25	20	1		1.0		CO DINING E113	1.0	1.2			0.2	CO KITCHEN E132		0.2		20	1	
27	20	1		0.6		CO FAMILY E114	0.6		3.0		2.4	RANGE E132			2.4	50	2	
29	20	1		1.0		REFRIGERATOR E115	1.0			3.4	2.4				2.4	-	-	
31	50	2			2.4	RANGE E115	2.4	3.4			1.0	DISHWASHER E132			1.0	20	1	
33	-	-			2.4	-	2.4		3.4		1.0	GARBAGE DISP E132			1.0	20	1	
35	20	1			1.0	GARBAGE DISPOSAL	1.0	2.0		2.9	1.9	RTU-1			1.9	30	3	
37	20	1			1.0	DISWASHER E115	1.0	2.9	0.4		1.9	<u>-</u>			1.9	-	-	
39	20	<u> </u>		0.2	1.0	CO KITCHEN E115	0.2		2.1	2.0	1.9	- DTU 4			1.9	-	-	
41	30	3			1.9	RTU-1	1.9	2.0		3.8	1.9	RTU-1			1.9	30	3	
43 45	-	-			1.9 1.9	-	1.9	3.8	3.8		1.9 1.9	<u>-</u>			1.9	-	-	
47	30	3			1.9	- RTU-1	1.9		3.0	3.8	1.9	 RTU-2			1.9 1.9	40	3	
49	30	3			1.9	KIU-I	1.9	3.8		3.0	1.9	K10-2			1.9	40	3	
51	<del>                                     </del>	+-			1.9	<u>-</u>	1.9	3.0	3.8		1.9				1.9			
53	20	2			0.8	EUH-3	0.8		0.0	1.8	1.0	 EUH-2			1.0	20	2	
55		-			0.8	-	0.8	1.8		1.0	1.0	-			1.0	_		
57	20	2			1.0	EUH-2	1.0	1.0	1.8		0.8	EUH-3			0.8	20	2	
59		<del>  -</del>			1.0	-	1.0		110	1.8	0.8	-			0.8		<del>-</del>	
61	20	1	0.5			EGRESS LIGHTS	0.6	0.9			0.4	KITCHEN ISLAND CO		0.4		20	1	
63	20	2			1.7	CU-1/DSS-1	1.7		2.7		1.0	SMOKE DETECTORS			1.0	20	1	
65	-	-			1.7	-	1.7			1.7	0.0	SPARE				20	1	
67	20	1		1.0		RTU CO'S	1.0	1.0			0.0	SPARE				20	1	1
69	20	1		0.4		KITCHEN ISLAND CO	0.4		0.4		0.0	SPARE				20	1	
71	20	1				SPARE	0.0			0.0	0.0	SPARE				20	_1	
73	20	1				SPARE	0.0	0.0			0.0	SPARE				20	1	
75	20	1				SPARE	1.7		0.0		0.0	SPARE				20	1	
77	20	1				SPARE	1.7			0.0	0.0	SPARE				20	1	
79	20	1				SPARE	0.0	6.4			6.4	LE2		1.5	4.9	70	3	
81	20	1				SPARE	0.0		8.5		8.5	-		5.1	3.4	-	-	
83	20	1				SPARE	0.0			5.5	5.5	-		1	4.5	_	-	
ГОТА	LS:					CONNECTED kVA PER			38	34			CONN					
						CONNECTED AMPS PER	PHASE	281	316	285		CONNECTED AV	/ERAGE	AMPS	PER P	HASE	294	
VEC I				CALCUL														
				/A @12		5 kVA		OTHE		_		74 kVA			FIED T			
	RECE	PTACLE	ES 10k\	/A @100	)% =	10 kVA	25°	% OF L	ARGES	ST MO	TOR =	0 kVA	AVER/	AGE AI	MPS PE	ER PH	ASE =	2

							<del></del>	<del>7</del>	<del></del>		$\sim$	<del></del>	<del></del>						<del></del>
							$\sqrt{7}$	§ P/	AN'	EL	. "L	.F"´	$\left\langle \begin{array}{c} \sqrt{3} \end{array} \right\rangle$						
	VOLT	TS/PHAS	SEWI	<u></u>			PANEL SIZE & TYPE:	$\sim$	SIZE &	$\overline{}$		نس	LOCATION:	TAICR	RATING		NOTE	<u></u>	
		208 V, 3				,	22" W x 6" D, BOLT-ON		MP MAI			,	LOCATION.	10,000		•		.0.	
$\overline{}$		ESSORII			-L DIRI	ECTOF	RY, IDENTIFICATION, GROUNDING BA				UND B	/ 4AR		10,00	0 / 110				$\dashv$
CKT	CKT			1	OAD (kV		DESCRIPTION	LCL		ASE LO		LCL	DESCRIPTION	TLC	DAD (k\	/A)	ОСР	,	СКТ
NO	NO		POLE	+	<del></del>		<b></b>	kVA		В	C	kVA	<b>52</b> 55	LTG	<del></del>			POLE	
2	1	20	1	1.5			LIGHTING	1.9	2.8			1.3	DRYER LAUNDRY F127	+		1.3	30	2	2
4	3	20	1	1.6		<del> </del>	LIGHTING	2.0		2.9		1.3	_	+	<del>                                     </del>	1.3	-	-	4
6	5	30	2			1.3		1.3			2.9	1.6	ROOMS F125,F126		1.4	0.2	20	1	6
8	7	-	-			1.3	-	1.3	2.3			1.0	WASHER LAUNDRY F127	1	1.0	-	20	1	8
10	9	20	1		1.4	0.2	ROOMS F103,F104	1.6		2.0		0.4	CO LAUNDRY F127	†	0.4		20	1	10
12	11	20	1		1.0	<b> </b>	WASHER LAUNDRY F101	1.0			2.2	1.2	ROOM F119		1.1	0.1	20	1	12
14	13	20	1		0.6	$\vdash$	CO ROOMS F101,F102	0.6	1.8			1.2	ROOM F122	†	1.1	0.1	20	1	14
16	15	20	1		1.1	0.1	ROOM F110	1.2		1.5		0.3	CO/EF-1 CUST. F124	†	0.2	0.1	20	1	16
18	17	20	1		1.1	0.1	ROOM F107	1.2			2.1	0.9	CO DINING F130	†	0.9		20	1	18
20	19	20	1		0.6	0.6	WH/PUMP/FIRE COMP.	1.2	1.8			0.6	CO FAMILY F131	†	0.6		20	1	20
22	21	20	1		1.1	0.1	ROOM F111	1.2		2.4	$\overline{}$	1.2	ROOM F118	+	1.1	0.1	20	1	22
24	23	20	1		0.6	+	CO DINING F113	0.6			1.6	1.0	REFRIGERATOR F132	+	1.0		20	1	24
26	25	20	1		0.9	<del>                                     </del>	CO FAMILY F114	0.9	3.3			2.4	RANGE F132	+	<del>                                     </del>	2.4	50	2	26
28	27	20	1		1.0	+	REFRIGERATOR F115	1.0		3.4	$\overline{}$	2.4		+	<del>                                     </del>	2.4	-		28
30	29	50	2			2.4	RANGE F115	2.4			3.4	1.0	GARBAGE DISP. F132	+	<del>                                     </del>	1.0	20	1	30
32	31	-				2.4	-	2.4	3.4			1.0	DISHWASHER F132		<del>                                     </del>	1.0	20	1	32
34	33	20	1			1.0	GARBAGE DISP. F115	1.0		1.2		0.2	KITCHEN CO F132		0.2		20	1	34
36	35	20	1			1.0	DISHWASHER F115	1.0			2.9	1.9	RTU-1	†	<del>                                     </del>	1.9	30	3	36
	37	20	1		0.2	<del>                                     </del>	CO KITCHEN F115	0.2	2.1			1.9	_	1	<del>                                     </del>	1.9	_	-	38
	39	30	3			1.9	RTU-1	1.9		3.8		1.9	-	+	<del>                                     </del>	1.9	-	-	40
	41	-	-			1.9	_	1.9			3.8	1.9	RTU-1		<del>                                     </del>	1.9	30	3	42
17	43	-	-			1.9	_	1.9	3.8			1.9	-		<del>                                     </del>	1.9	-	-	44
48	45	30	3			1.9	RTU-1	1.9		3.8		1.9	-	†	<del>                                     </del>	1.9	_	-	46
	47	-	-			1.9		1.9			2.9	1.0	EUH-2	†		1.0	20	2	48
	49	-	-			1.9	-	1.9	2.9			1.0	-			1.0	_	-	50
	51	20	2			1.7	EUH-1	1.7		2.5		0.8	EUH-3	†	<del>                                     </del>	0.8	20	2	52
	53	-	_			1.7	-	1.7			2.5	0.8	-	†		0.8	_	-	54
	55	20	2			1.0	EUH-2	1.0	1.3			0.4	EGRESS LIGHTS	0.3			20	1	56
	57	-	_			1.0	-	1.0		2.7		1.7	CU-1/DSS-1	†		1.7	20	2	58
	59	20	1		0.4	<u> </u>	KITCHEN ISLAND CO	0.4			2.1	1.7	-			1.7	-	-	60
	61	20	1		0.8		RTU CO'S	0.8	1.2			0.4	KITCHEN ISLAND CO		0.4		20	1	62
	63	20	1			<u> </u>	SPARE	0.0		1.0		1.0	SMOKE DETECTORS			1.0	20	1	64
	65	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	66
	67	20	1			<u> </u>	SPARE	0.0	0.0			0.0	SPARE				20	1	68
	69	20	1				SPARE	0.0		0.0		0.0	SPARE				20	1	70
	71	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	72
	TOTA						CONNECTED KVA PER F		27	27	26			CONN	IECTED	TOTA		80	
							CONNECTED AMPS PER F	PHASE	223	226	220		CONNECTED AVE	ERAGE	AMPS	PER P	HASE	223	
1	-	$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$		$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$							$\overline{}$

ALL OTHER LOADS @100% =

25% OF LARGEST MOTOR =

57 kVA

0 kVA

NEC DIVERSIFIED LOAD CALCULATIONS

RECEPTACLES 10kVA @100% =

REMAINDER 10kVA @ 50% =

LIGHTING 3kVA @125% =

4 kVA

10 kVA

5 kVA

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January 04, 2017

for New

**Brighton** 

Recovery

Campus 4905, 4911, 4915, 4925, 4931, & 4953 South 900

Donald L. Welch

Architect

consultant:

project:

revisions PERMIT SET-December 28, 2016

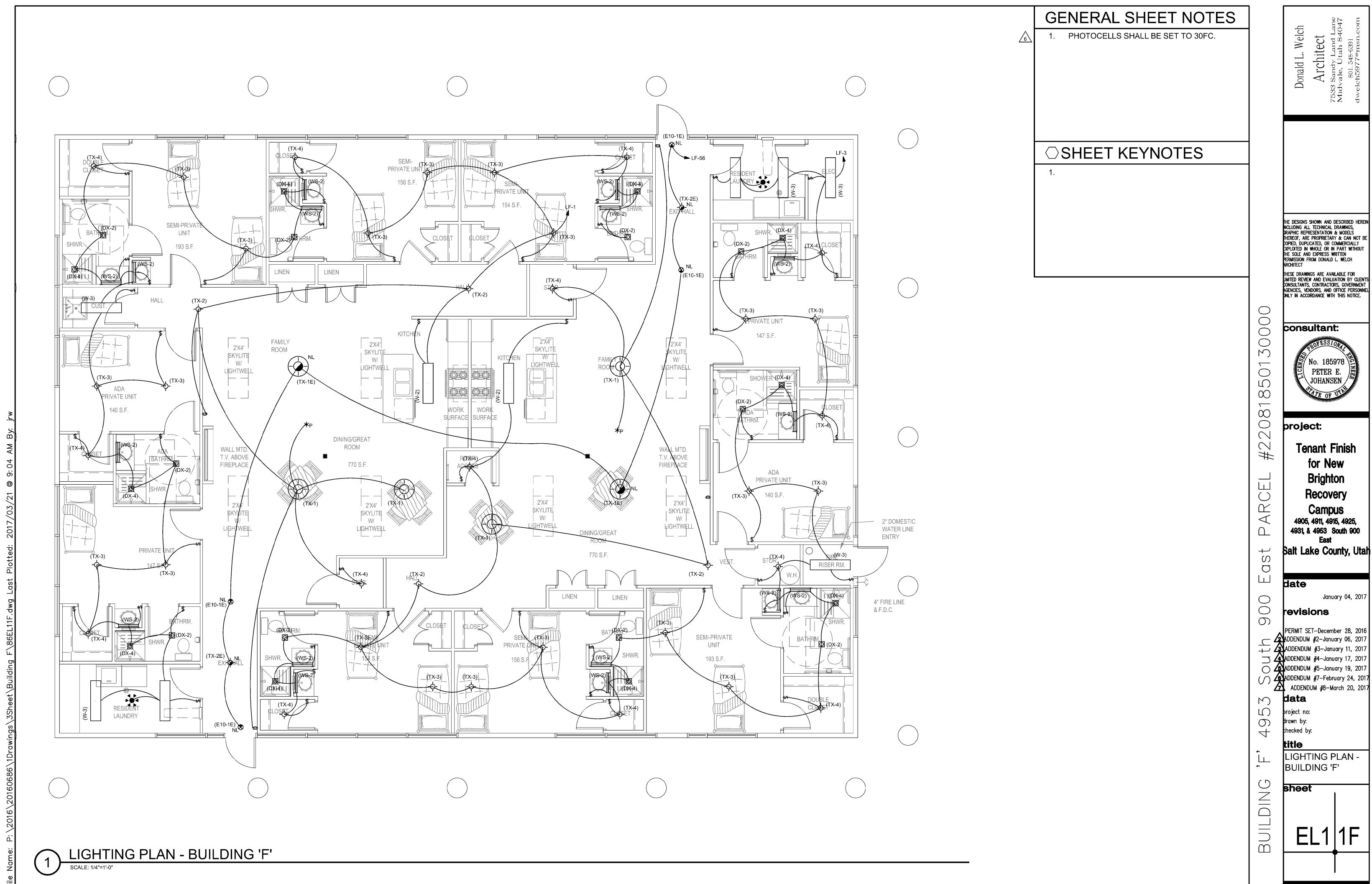
ADDENDUM #2-January 06, 2017
ADDENDUM #3-January 11, 2017 ADDENDUM #4-January 17, 2017
ADDENDUM #5-January 19, 2017
ADDENDUM #7-February 24, 2017
ADDENDUM #8-March 20, 2017

checked by:

DIVERSIFIED TOTAL kVA = 76

AVERAGE AMPS PER PHASE = 21

SCHEDULES



### LIGHTING FIXTURE SCHEDULE

NOTE TO BIDDERS: COMPLY WITH THE SPECIFICATIONS. REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, BALLASTS, AND LAMPS. THE CATALOG NUMBERS LISTED BELOW HAVE BEEN CAREFULLY PREPARED TO ASSIST BIDDERS IN SELECTING PRODUCTS TO ACHIEVE THE DESIGN CONCEPT, HOWEVER, PRIOR TO BIDDING, EACH MANUFACTURER SHALL COMPARE THE CATALOG NUMBERS SHOWN WITH THE DESCRIPTION AND REQUIREMENTS ON THE DRAWINGS, AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. SPECIFICALLY INCLUDED IN THIS EVALUATION SHALL BE THE VERIFYING OF PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. NO ALLOWANCE OR REDRESS WILL BE ALLOWED FOR DISCREPANCIES THAT WERE NOT REPORTED TO THE ARCHITECT/ENGINEER IN TIME FOR CORRECTION OR CLARIFICATION BEFORE THE BID. THE REPORTING OF ANY AMBIGUITY IS THE RESPONSIBILITY OF THE BIDDER. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER. SUBMITTAL PACKAGE SHALL INCLUDE LAMP MANUFACTURER AND CATALOG NUMBER ON EACH FIXTURE SHEET. ON ALL PENDANT MOUNTED FIXTURES, PROVIDE A SECOND SET OF PENDANTS, OF A DIFFERENT LENGTH, AS DIRECTED BY THE ARCHITECT/ENGINEER, PROVIDED AND INSTALLED AT NO ADDITIONAL CHARGE. ALL FIXTURES SHALL BE APPROVED BY UL OR ANOTHER ACCEPTABLE TESTING LAB FOR THE PURPOSE INTENDED AND WITH THE LAMP AND BALLAST PROPOSED. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES. UNIVERSAL VOLTAGE (120/277) DALLACTE DECUIDED UNILESS NOTED OTHERWISE DIMENSION SECUENCE - // ENCILLY WIDTLLY DEDTLI) IN INCHES

L	BALLAST	S REQUIRE	ED UNLESS NOTED OTHERWISE. DIMENSION	SEQUENCE =	= (LENGTH )	K WIDTH X D	EPTH) IN INCHES.		
			FIXTURE CHARACTERISTICS						
			BODY / AIR / MOUNTING / DOOR						
	SYMBOL	MARK	LENS/LOUVER/REFLECTOR/OTHER	LAMP	WATTS	VOLTS	MANUFACTURER	CATALOG NUMBER	NOTES
		DX	LED DOWNLIGHT; THERMALLY PROTECT	TED HOUSING	G: TO ACCO	MMODATE N	IULTIPLE TRIMS AND	REFLECTOR ASSEMBLIES	
			FOR LAMPS AS LISTED BELOW; ELECTRO	ONIC BALLAS	TS; LOW IR	IDESCENT R	EFLECTOR FINISH (E'	VEN IF NOT SHOWN IN CATALOG #);	
			SELF FLANGING TRIM UNLESS NOTED.						
		DX-1	RECESSED DOWNLIGHT; VERTICAL,	1500 LU	27W	120/277V	PEACHTREE	6BLRD-IC-18-35K-80-SH-TRW-120	
7			FULL ON AT 0 VOLTS CONTROL INPUT	3500k				OR EQUIVALENT	
			6"						
			3500 K						
			DIMMALE 0-10V						

DX-2	RECESSED DOWNLIGHT; VERTICAL,	2000 LI	54W	120/277V	PEACHTREE	6BLRD-IC-20-35K-80-SH-RCA-120	
	FULL ON AT 0 VOLTS CONTROL INPUT	3500k				OR EQUIVALENT	
	6"						
	3500K, 90 CRI						
	2000 LUMENS						
	DIMMABLE 0-10V						
	DAMP LOCATION						
DX-4	RECESSED DOWNLIGHT; LED	1250 L	27W	120/277V	PEACHTREE	6BLRD-IC-13-35K-80-SH-RCA-WL-120	
	6" SHOWER LIGHT	3500k			EATON	SLD612-80-35-WH WITH H7ICAT HOUSING	
	4000k					OR EQUIVALENT	

E	E SUFFIX INDICATES THAT FIXTURE IS PROVIDED WITH AN EMERGENCY BATTERY PACK TO PROVIDE POWER LED LAMPS,
	TO PROVIDE 90 MINUTES OF EMERGENCY POWER TO FIXTURE. MINIMUM LIGHT OUTPUT FOR TYPICAL 4' LAMP SHALL
	BE 1100 LUMENS OR HIGHER;UNIVERSAL TRANSFORMER FOR 120 OR 277 VOLTS; LOW VOLTAGE PROTECTION, COMBINATION
	TEST SWITCH AND AC "ON" INDICATOR; 10 YEAR PRO-RATA WARRANTY; INSTALL TEST SWITCH IN A MANNER THAT REQUIRES

	TEST SWITCH AND AC ON INDICATOR, TO	I LAIN I NO-NATA WA	AIXIXAINIII, IINO	IALL ILSI SWITCH		-
	NO DISASSEMBLY FOR TESTING.					
E	EMERGENCY BATTERY PACK.	3W	120/277V	DUAL-LITE	UFO 6WI	
	self testing ballasts			BODINE	REDITEST	
				LITHONIA	PS1400QD SD	
				EMERGI LITE	FPDL/U	

E10 EXIT SIGN: META	AL HOUSING; CEILING MOUNT, SEE DRA	AWINGS; ARROWS PER PLANS; LE	D LAMPS; EDGE LIGHTED CLEAR
LENS; GREEN LE	TTERS ON CLEAR BACKGROUND. MUS	ST MEET NFPA ILLUMINATION STAP	NDARDS. UNITS SHOWN ARE CEILING
MOUNT MODELS	CONTRACTOR TO PROVIDE MATCHIN	NG LOW LEVEL WALL MOUNTED UN	IITS WHERE REQUIRED.

	MOUNT MODELS. CONTRACTOR TO PR	ROVIDE MATC	HING LOW L	EVEL WALL M	IOUNTED UNITS W	HERE REQUIRED.	
E10-1E	SINGLE FACE:	LED	2W	120/277V	DUAL-LITE	LECSGWA	
	WITH EMERGENCY BATTERY PACK				MCPHILBEN	45VL-1-GC-XX	
					EELP	EDG 1 GC W EM	
					LITHONIA	LRP W 1 GC XX 120/277	
					EVENLITE	SOV-AC-G-1M WH XX UC	
					ISOLITE	EDGL-S-S-G-BK (BLACK HOUSING)	
					CHLORIDE	STDLX-X-1-GC-X	
					LIGHTOLIER	LEAC1GCX	
E10-2E	DUAL FACE:	LED	2W	120/277V	DUAL-LITE	LECDGWA	
	WITH EMERGENCY BATTERY PACK				MCPHILBEN	45VL-2-GM-XX	
					EELP	EDG 2 GC W EM	
					LITHONIA	LRP W 2 GMR XX 120/277	
					EVENLITE	SOV AC G 2M WH XX UC	
					ISOLITE	EDGL-D-S-G-BK (BLACK HOUSING)	
					CHLORIDE	STDLX-X-2-GC-X	
					LIGHTOLIER	LEAC2GC7	

**EVENLINT** 

BAL1400

EXTERIOR CANOPY FIXTURES

-1	RECESSED SQUARE LED CANOPY LIGHT,	LED	50W	120/277V	MCGRAW EDISON	LRC-B16-1-LED-E1-WST
	BRONZE FINISH, WIDE DISTRIBUTION	3000K	3800 LU			

OC	WALL MOUNTED TRAPEZOIDAL WALL PACK, WET LOCATION
00	WALL MOUNTED TRAPEZOIDAL WALL PACK, WET LOCATI

OC-32	LED WALL PACK, TYPE IV OPTICS	LED	24W	120/277V	LITHONIA	WST-LED-1-10A700-35K-SR4-MVOLT
	BRONZE FINISH	3500K	1600 LU			

3500K

TX	SPECIAL FIXTURES AS INDICATED. MEET	T ALL REQUIF	REMENTS O	F SPECIFICA	TIONS AND FIXTURE	SCHEDULE. VISUAL AND
TX-1	Surface Mounted Drum	LED	100W	120/277V	SHAPER	122-36-L7-UNV-SN
	36" Diameter	3500K			SPI	AIC11866-L100.4WDML-PT04-120-277V-3500K-FB01
TX-2	Surface Mounted Drum	LED	37W	120/277V	SHAPER	122-24-L5-UNV-SN
	24" Diameter	3500K			SPI	AIC11865-L46.6WDML-PT04-120-277V-3500K-FB01
TX-3	Surface Mounted	LED	24W	120/277V	BETACALCO	FIERO-60 1200-3500K-PC-SN
	Bedroom Light	3500K				
TX-4	Surface Mounted	LED	22W	120/277v	METALUX	FM-15-W-R-30-R
	Closet Light	3000K				
TX-5	PENDANT	LED	21W	120/277V	SPI	SIP11783-2F21-120-F-AC1

W	LOW PROFILE WRAPAROUND: SURFA ACRYLIC PRISMATIC DIFFUSER; WHIT					
W-2	NARROW BODY WRAPAROUND; APPROX; 3" X 12" X 48" X 48". 5500 LUMENS	LED 3500K	57W	277/120V	EATON	DSI-WD-3-L35-1-D-UNV-SU-JB-4-STD-FC-W
W-3	NARROW BODY WRAPAROUND; APPROX; 3" X 10" X 48" X 48". 4800 LUMENS	LED 3500K	48W	277/120V	LITHONIA COLUMBIA METALUX DAYBRITE	LBL4 LP840 LWC4 40 ML EU WNLED LD1 41 1 UNV L835 CD1 U OWL450L835UNV
WS	WALL MOUNTED LED LOCATED ABOVI	E WALL ELEME	ENT (MIRRORA	/WHITEBOAF	RD, ETC.): AS INDIC	CATED ON DRAWINGS;
WS-2	36" LED VANITY LIGHT SATIN CHROM FINISH 2.25" WIDE	LED 3500K	19W	120/277V	EDGE LIGHT EUREKA LBL	TW12 S11 1RE 36" 30k CH 3541 35 LED 17.40 120/277 SC WH LW496 OP XX LED 277
ZX	OUTDOOR AREA LIGHT. SINGLE HEAD BELOW; RATED 100 MPH WITH 1.3 GU		S SHOWN ON	DRAWINGS.	. WET LABEL. LED	LIGHT ENGINE, OPTICS AND DRIVERS ACCESSIBLE FROM
ZX-2	LED POLE MOUNTED AREA LIGHT, TYPE II OPTICS, BRONZE FINISH HOUSE SIDE SHIELD 9' SSS POLE, FINISH TO MATCH FIXTU	LED 3500K RE	72W 3500 LU	120/277V	LITHONIA	DSX0-LED-20C-1000-35K-T2M-MVOLT-HS
ZX-4	LED POLE MOUNTED AREA LIGHT, TYPE IV OPTICS, BRONZE FINISH HOUSE SIDE SHIELD	LED 3500K	72W 3500 LU	120/277V	LITHONIA	DSX0-LED-20C-1000-35K-T4M-MVOLT-HS

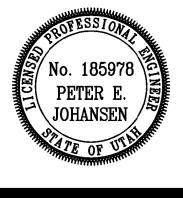
9' SSS POLE, FINISH TO MATCH FIXTURE

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Donald L. Welch

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consultant:



project:

**Brighton** 4905, 4911, 4915, 4925, 4931, & 4953 South 900

Salt Lake County, Utah

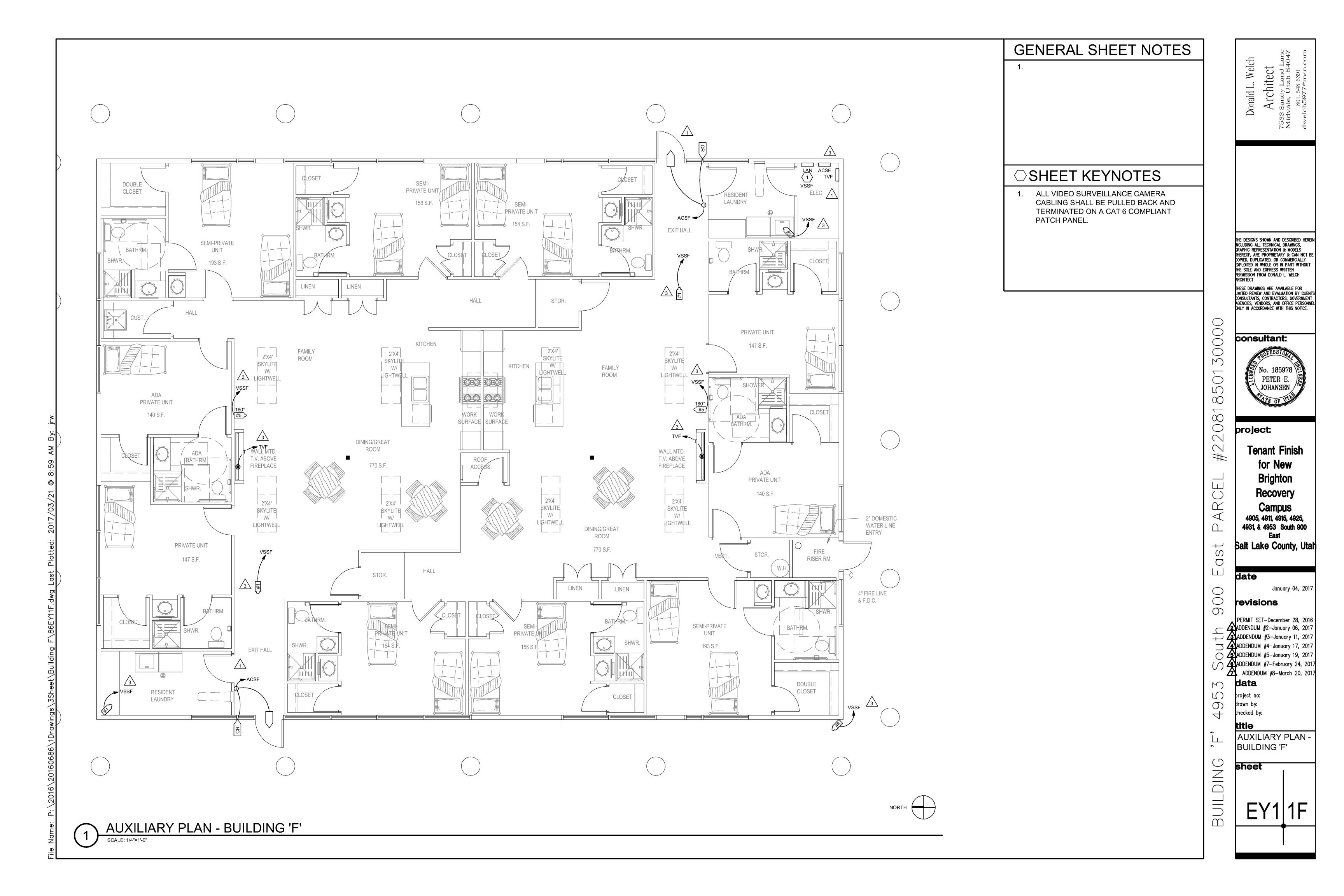
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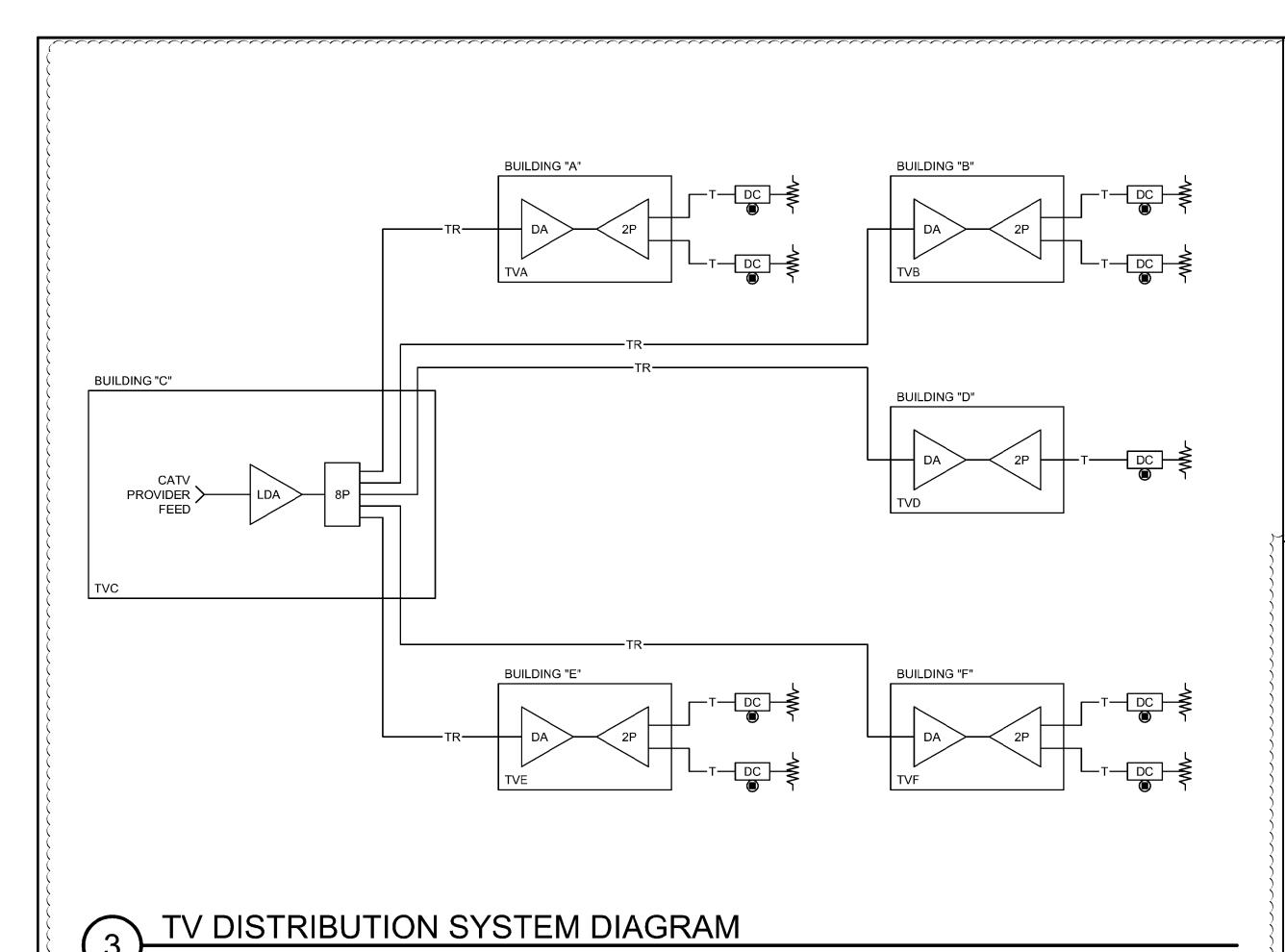
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FIXTURE SCHEDULE

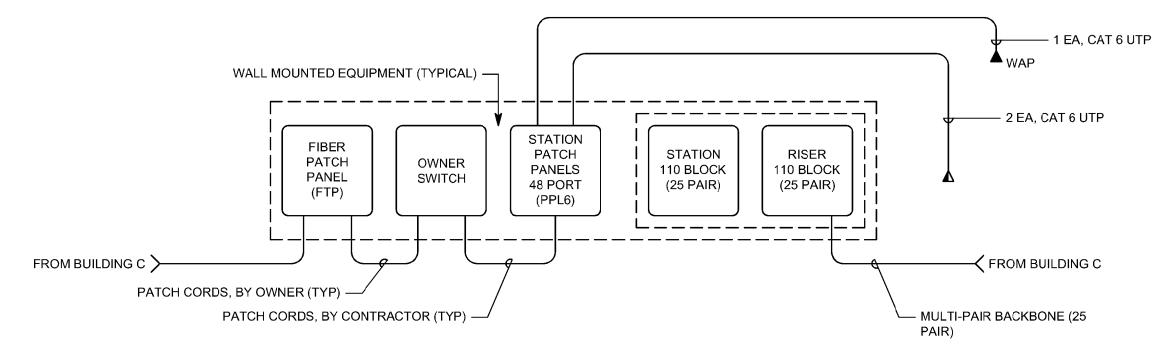
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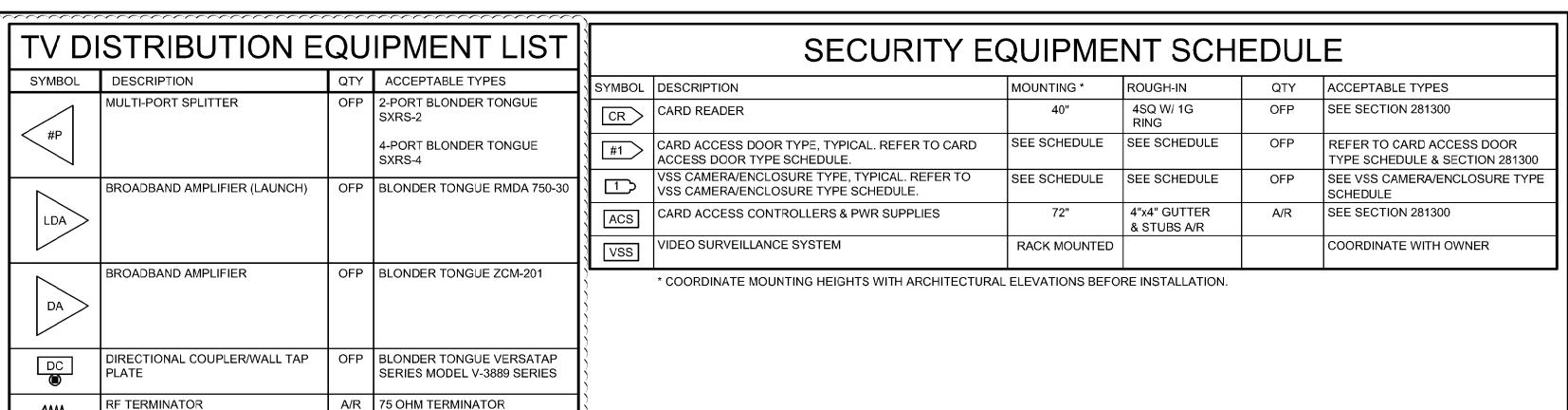


## STRUCTURED CABLING SYSTEM NOTES

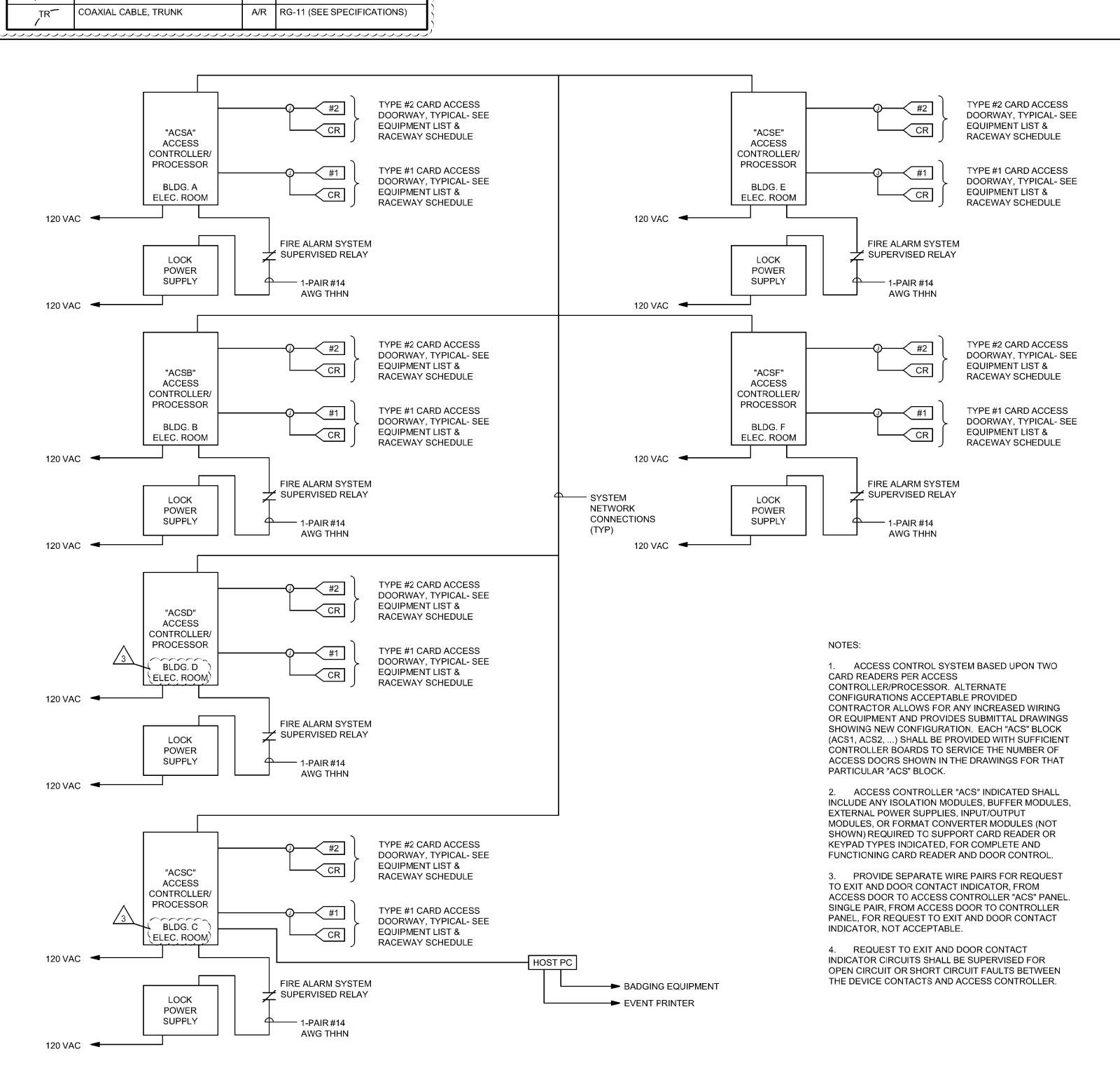
- 1. REFER TO EP SERIES SHEETS FOR VOICE/DATA OUTLET QUANTITIES AND LOCATIONS.
- 2. PROVIDE PLENUM RATED CABLE IN ALL AIR PLENUMS. IF A PLENUM RATED CABLE IS NOT SPECIFIED, PROVIDE THE PLENUM RATED EQUIVALENT TO THE SPECIFIED CABLE.
- 3. ALL CABLE, REGARDLESS OF LENGTH, INSTALLED UNDER THIS CONTRACT ARE TO BE LABELED.
- 4. UNLESS OTHERWISE NOTED, INSTALL ALL CABLE INSIDE RACEWAY SYSTEMS. WHERE RACEWAY SYSTEMS HAVE NOT BEEN PROVIDED OR SPECIFIED, INSTALL CABLE THROUGH THE SPECIFIED "CADDIE" CLIPS INSTALLED ABOVE ACCESSIBLE CEILINGS AT THE MINIMUM INTERVALS IDENTIFIED IN THE SPECIFICATIONS. SUPPORT "CADDIE" CLIPS DIRECTLY FROM THE BUILDING STRUCTURE, NOT FROM OTHER BUILDING SYSTEM SUPPORT WIRES OR CABLE.
- 5. GROUND ALL EQUIPMENT AS DETAILED. COORDINATE GROUNDING WITH ELECTRICAL CONTRACTOR.
- 6. ALL CABLE, FIBER, AND UTP TO TERMINATED ON BOTH ENDS.
- 7. ALL VOICE/DATA SYSTEMS CABLE IS TO BE INSTALLED INSIDE MINIMUM 1" CONDUIT. STUB CONDUIT FROM JUNCTION BOX LOCATION TO CABLE MANAGEMENT SYSTEM SPECIFIED FOR ACCESSIBLE CEILING.
- 8. INSTALL ALL ELECTRONIC SYSTEMS EQUIPMENT IN COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, SEISMIC CODES, AND INDUSTRY WIDE ACCEPTED PRACTICES. SUPPORT EQUIPMENT WEIGHT FROM BUILDING STRUCTURE. DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT.



HORIZONTAL WALL MOUNT DIAGRAM (TYP. FOR BUILDINGS A, B, D, E, & F)



COAXIAL CABLE, HORIZONTAL DROP | A/R | RG-6 (SEE SPECIFICATIONS)



ACCESS CARD SYSTEM (ACS) RISER DIAGRAM

Donald L. Welch
Architect
7533 Sandy Land Lane
Midvale, Utah 84047
801.548-6391

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Tenant Finish for New Brighton Recovery Campus

Salt Lake County, Utal

4905, 4911, 4915, 4925,

4931, & 4953 South 900

date

January 04, 2017

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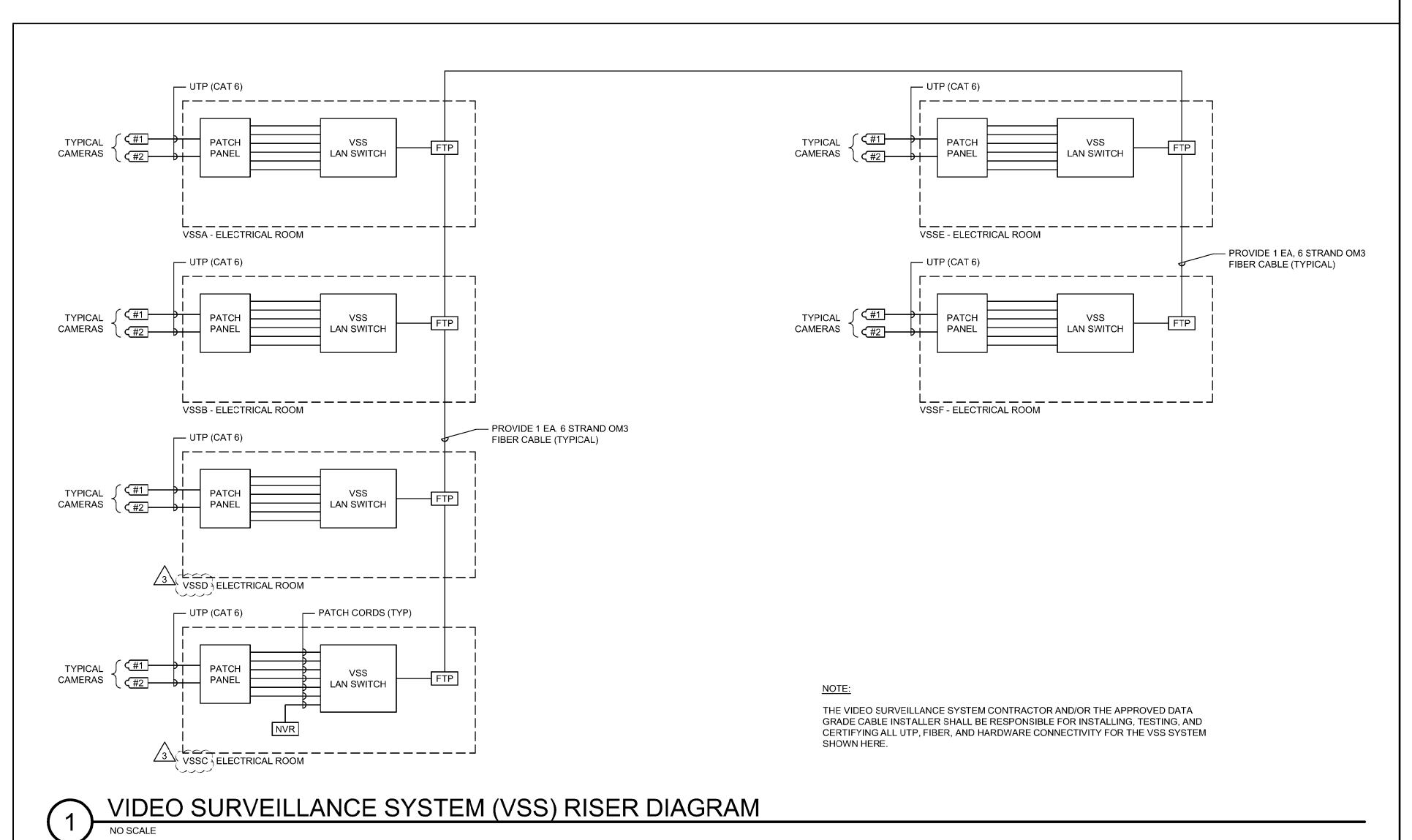
AUXILIARY RISER DIAGRAMS

sheet

EY6 01

	VSS C	AMERA/ENCLOSUR	E TYPE SCHEDULE
CAMERA TYPE NUMBER	SYMBOL	DESCRIPTION	INCLUDES
YPE 1	#1	INTERIOR CAMERA - FIXED DOME (CEILING MOUNTED UNLESS J-BOX SHOWN)	* CAMERA/ENCLOSURE-FLUSH MOUNTED * CAT6 SIGNAL CABLE AS INDICATED TO HEADEND * POE
	vss		PROVIDE AVIGILON 1.0C-H4A-DC1 OR APPROVED EQUAL.
TYPE 2	#2	INTERIOR CAMERA - FIXED DOME (WALL MOUNTED)	* CAMERA/ENCLOSURE-SURFACE MOUNTED * CAT6 SIGNAL CABLE AS INDICATED TO HEADEND (VSS) * POE * WALL MOUNT HARDWARE
	vss		PROVIDE AVIGILON 1.0C-H4A-D1 OR APPROVED EQUAL.
TYPE 3	#3 VSS	EXTERIOR CAMERA - MULTI SENSOR (WALL PENDANT MOUNTED)	* CAMERA/ENCLOSURE-SURFACE MOUNTED  * CAT6 SIGNAL CABLE AS INDICATED TO HEADEND (VSS)  * POE  * ENVIRONMENTAL ASSEMBLY  * 180°
			PROVIDE AVIGILON 9W-H3-3MH-DP1 OR APPROVED EQUAL. WALL MOUNT - AVIGILON MNT-PEND-WALL CORNER MOUNT - AVIGILON MNT-AD-CORNER
YPE 4	#4 VSS	EXTERIOR CAMERA - MULTI-SENSOR (CORNER PENDANT MOUNTED)	* CAMERA/ENCLOSURE-SURFACE MOUNTED * CAT6 SIGNAL CABLE AS INDICATED TO HEADEND (VSS) * POE * ENVIRONMENTAL ASSEMBLY * 270°
			PROVIDE AVIGILON 9W-H3-3MH-DP1 OR APPROVED EQUAL. WALL MOUNT - AVIGILON MNT-PEND-WALL CORNER MOUNT - AVIGILON MNT-AD-CORNER
ГҮРЕ 5	#5	INTERIOR CAMERA - MULTI-SENSOR (CEILING MOUNTED)	* CAMERA/ENCLOSURE-FLUSH MOUNTED * CAT6 SIGNAL CABLE AS INDICATED TO HEADEND (VSS) * POE * 180° - 270°
	vss		PROVIDE AVIGILON 9W-H3-3MH-DC1 OR APPROVED EQUAL.
TYPE 6	#6	EXTERIOR CAMERA - FIXED BULLET (WALL MOUNTED)	* CAMERA/ENCLOSURE-SURFACE MOUNTED * CAT6 SIGNAL CABLE AS INDICATED TO HEADEND (VSS) * POE * ENVIRONMENTAL ASSEMBLY
	vss		PROVIDE AVIGILON 2.0C-H4A-B02-IR OR APPROVED EQUAL.

DESCRIPTION  POE NETWORK SWITCH  NETWORK VIDEO RECORDER	ACCEPTABLE TYPES  NETGEAR  SEE SPECIFICATION 282300
NETWORK VIDEO RECORDER	SEE SPECIFICATION 282300
	OLE OF LOW FOR THE PARTY OF THE
VIDEO CAMERA	SEE VSS CAMERA SCHEDULE
4 PAIR, CAT 6, UTP PLENUM	SEE SPECIFICATIONS
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,



4931, & 4953 South 900  $\bigcirc$ BUILDING

M 20 ARCEL  $\bigcirc$ 

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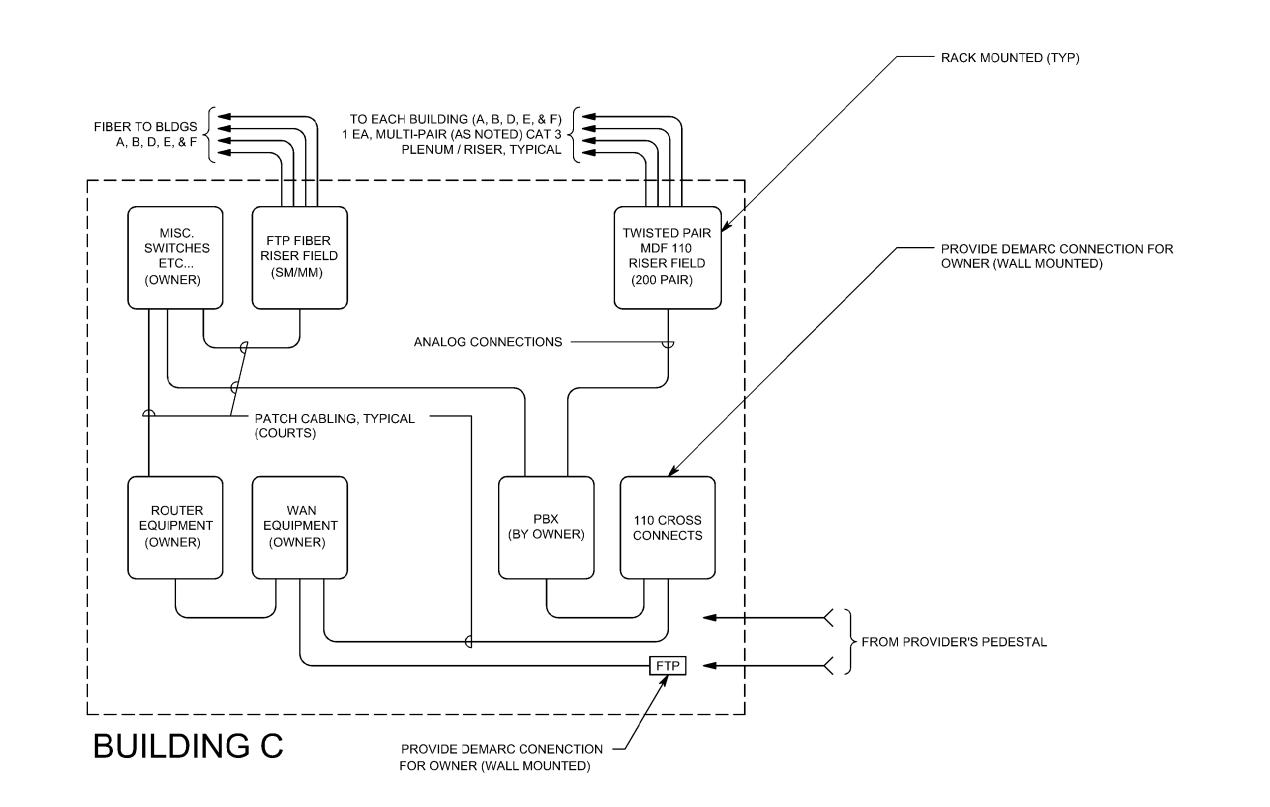
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AUXILIARY RISER DIAGRAMS



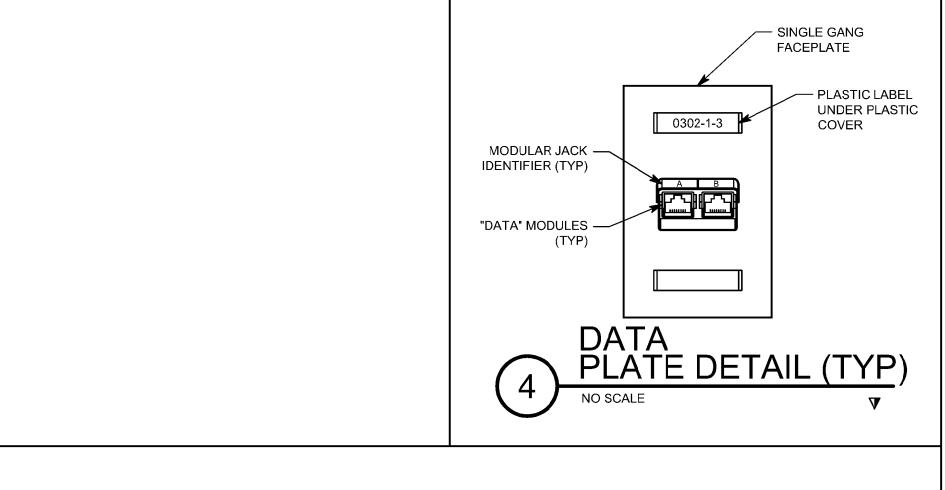
### VOICE/DATA EQUIPMENT/CABLE LIST

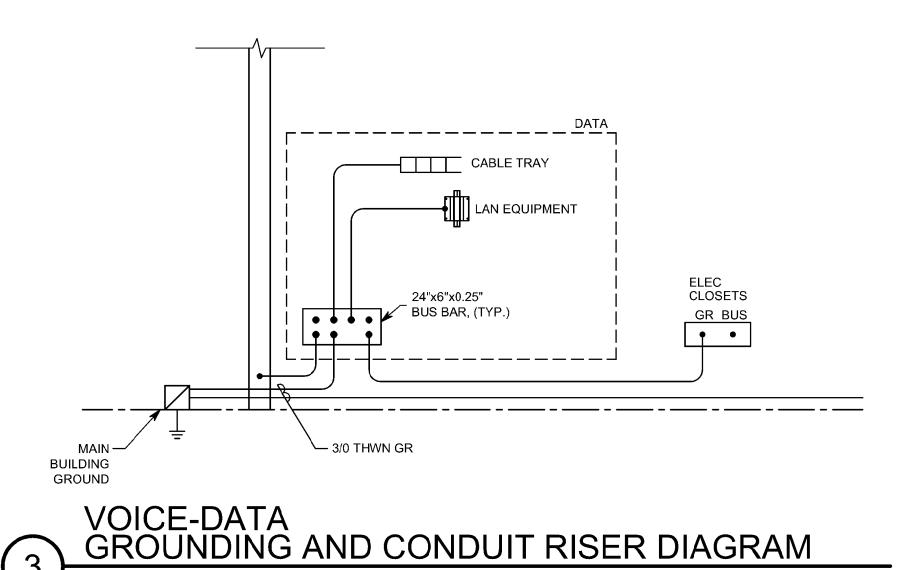
GENERAL NOTE:
THIS REPRESENTS ITEMS OF SIGNIFICANCE USED DURING THE DESIGN OF THE CABLING INSTALLATION, WHILE THE ITEMS INDICATED BELOW SHALL NOT BE CONSTRUED AS A "BILL OF MATERIALS". FURNISH ALL MISCELLANEOUS HARDWARE AND SUPPORTS WHICH MAY NOT BE LISTED HERE FOR A COMPLETE INSTALLATION. COMPARE CATALOG NUMBERS WITH DESCRIPTION AND PRIOR TO PURCHASING ANY EQUIPMENT OR CABLE. REFER TO SECTION 16741 FOR ADDITIONAL INFORMATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO BID AND PROVIDE COMPLETE SUBMITTAL FOR APPROVAL

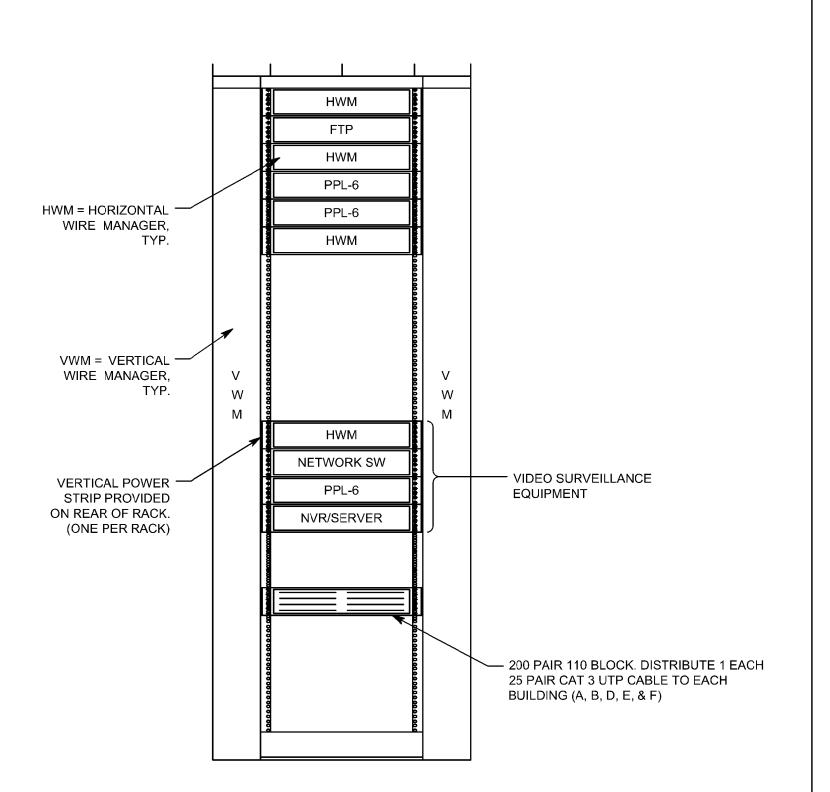
SYMBOL	ITEM DESCRIPTION	COMMENTS				
	4 PAIR 24 GAUGE CAT 6 UTP, PLENUM CABLE	SEE SPECIFICATIONS				
	6 STRAND FIBER PLENUM CABLE, MULTI-MODE (OM3)	SEE SPECIFICATIONS				
PPL6-48	48-PORT PATCH PANEL WITH CAT 6 RJ45 JACKS; MOUNTED IN RACK.	PROVIDE FOR QUANTITY OF PORTS SHOWN ON DRAWINGS, PLUS 20%				
FTP	SC TYPE CONNECTOR PANEL - PORTS AS REQUIRED	PROVIDE MODULAR TYPE WITH ADAPTOR PLATES.				
	DATA RACK, FLOOR MOUNTED	OPEN RACK, STANDARD 19", PROVIDE RACKS AS SHOWN IN ROOM LAYOUT DETAILS. SEE SPECIFICATIONS.				
▼ ▼ WAP	DATA JACK, 2 CAT 6 CABLES EACH	PROVIDE WITH CAT 6 COMPLIANT RJ45 MODULAR CONNECTORS. SEE DETAIL.				
PATCH CORDS	PATCH CORDS, CAT 6	PROVIDE 1 EACH FOR EVERY CABLE TERMINATED FROM HORIZONTAL CABLING OUTLETS.				
	110 STYLE PUNCHDOWN BLOCKS (DUAL SIDED - 1 SIDE STATION, 1 SIDE RISER)	PROVIDE QUANTITY OF PAIRS NEEDED. A 100 PAIR CABLE WOULD NEED 100 PAIR FOR EACH SIDE OF THE BLOCK				

NIC = NOT IN CONTRACT

MAIN NETWORK ROOM SINGLE LINE DIAGRAM W/UTILITY DEMARC INFORMATION

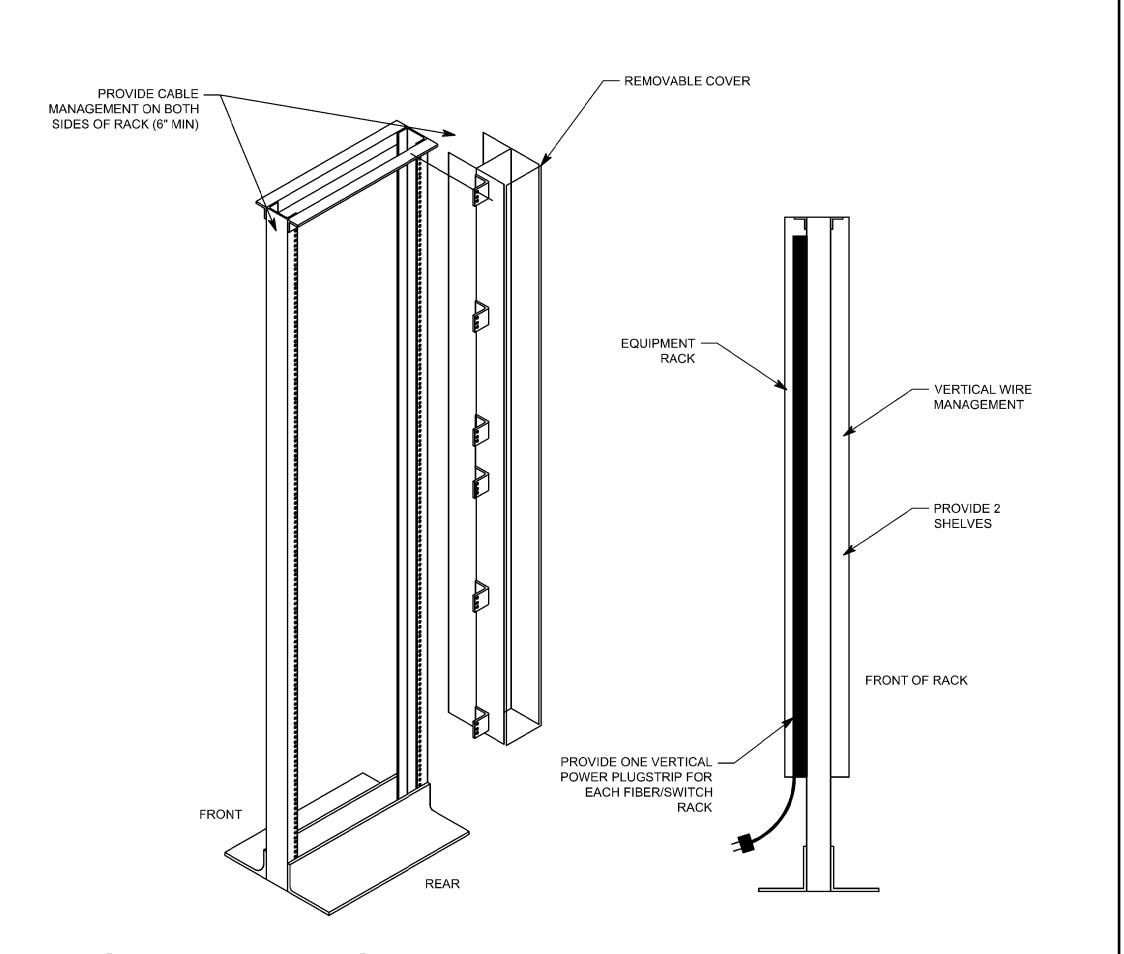






- RACK LAYOUTS ARE FOR COORDINATION PURPOSES. ALL FINAL RACK LAYOUTS ARE TO BE COORDINATED WITH OWNER PERSONNEL.
- 2. PROVIDE ALL WIRE MANAGEMENT ACCESSORIES SHOWN.

HORIZONTAL TERMINATION RACK ELEVATION - BUILDING C



OPEN FRAME EQUIPMENT RACK/RACEWAY MOUNTING DETAILS

Donald L. Welch Architect

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Salt Lake County, Utah

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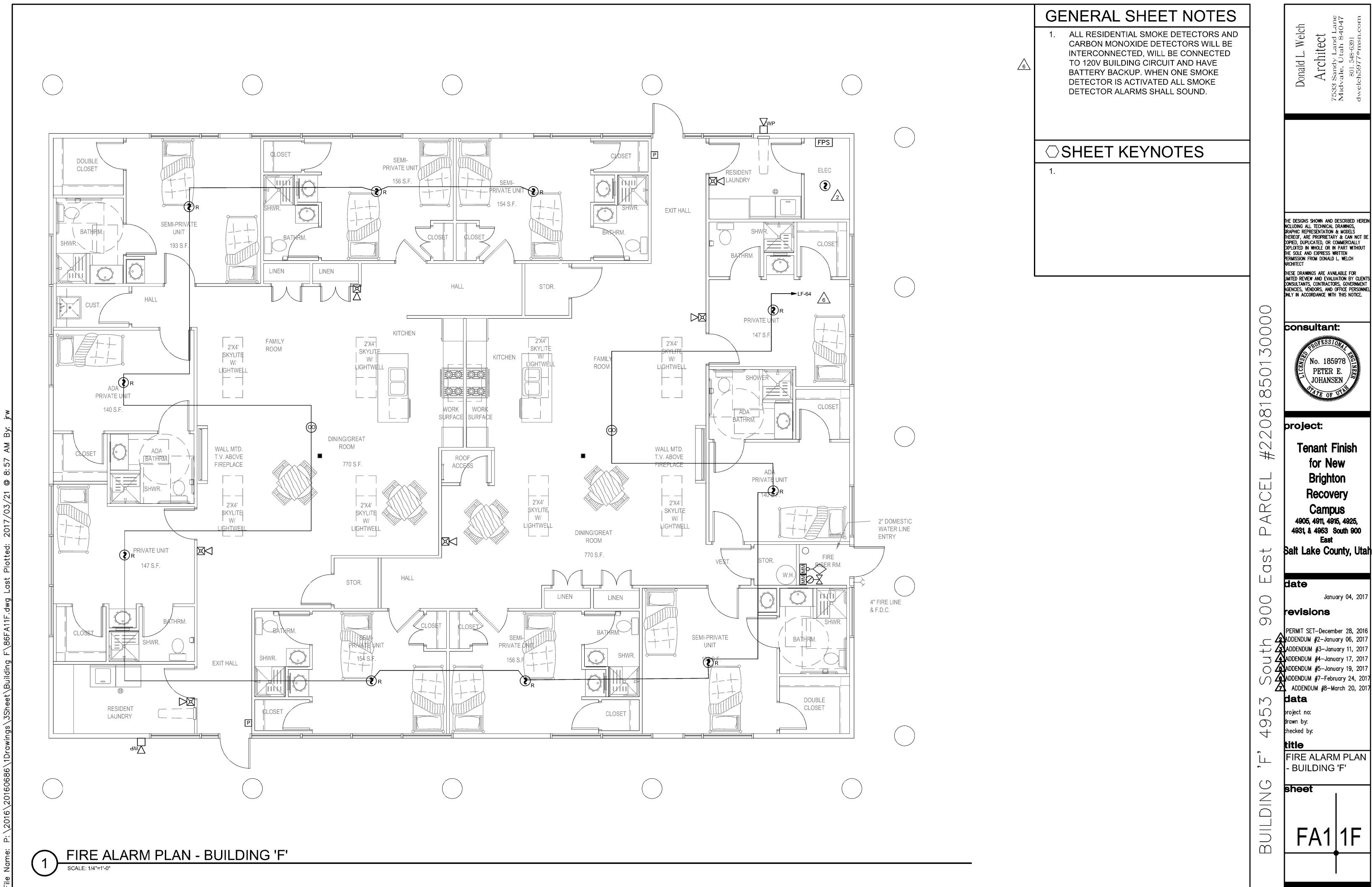
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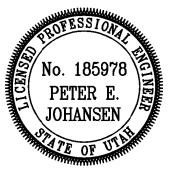
**AUXILIARY RISER** DIAGRAMS

DING sheet



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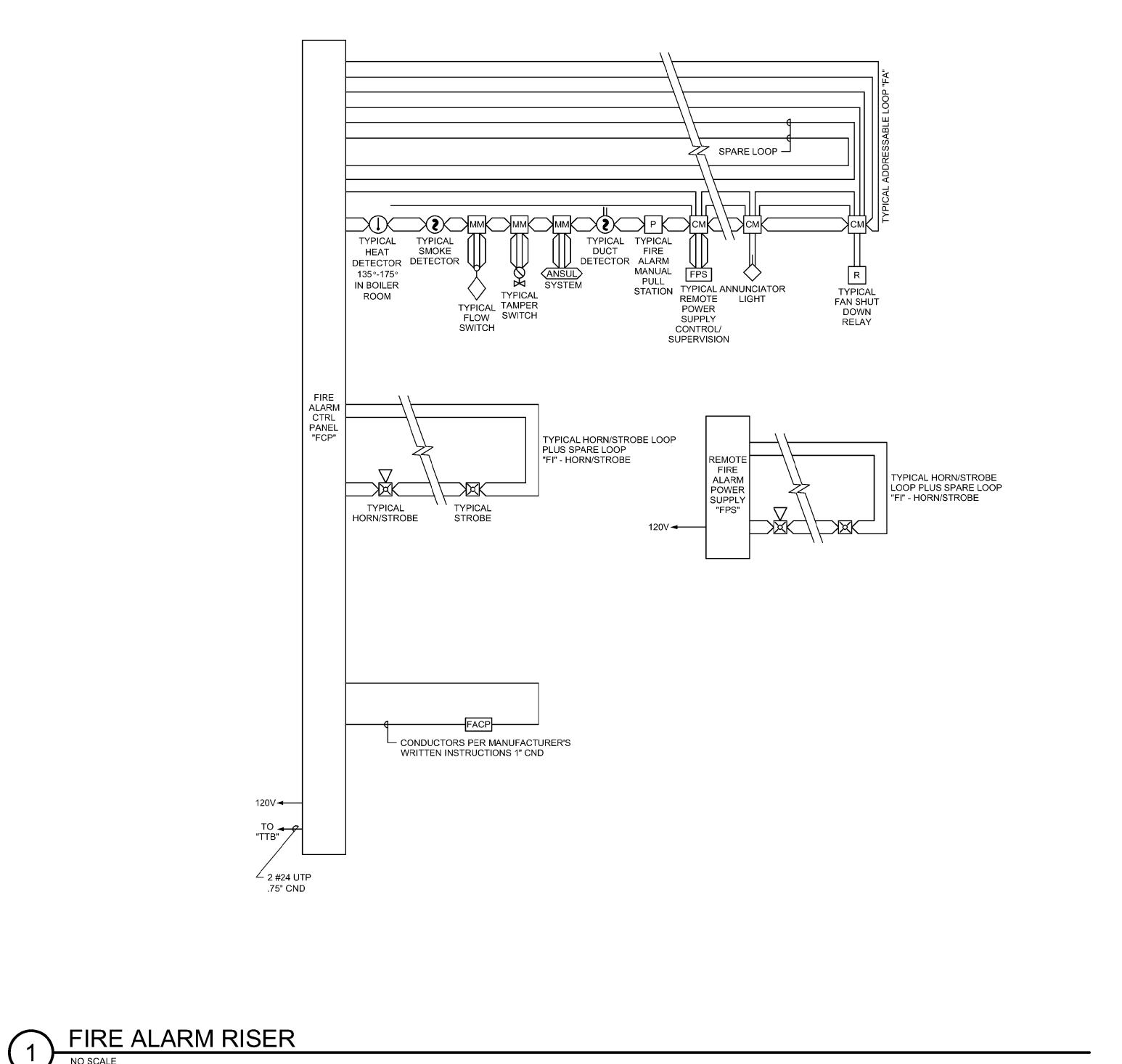


ADDENDUM #2-January 06, 2017 ADDENDUM #7-February 24, 2017

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WIRING SCHEDULE									
FUNCTION	< 500'	< 1000'	1000'-3000'	> 3000'					
ADDRESSABLE LOOP	#18 TSP	#18 TSP	#16 TSP	#14 TSP					
POWER LOOP	#14 THWN	#14 THWN	#12 THWN	#10 THWN					
SPARE LOOP	#14 THWN   #14 TH		#12 THWN	#10 THWN					
STROBE HORNS	#14 THWN	#14 THWN	#12 THWN	#10 THWN					
MAGNETIC DOOR HOLDER	#12 THWN	#10 THWN							
SPEAKERS	#16 TSP	#16 TSP	#14 TSP	#14 TSP					

				OUTPUT DEVICES									
FIRE ALARM INPUT/OUTPUT MATRIX		GENERAL ALARM BLDG 'A'	GENERAL ALARM BLDG 'B'	GENERAL ALARM BLDG 'C'	GENERAL ALARM BLDG 'D'	GENERAL ALARM BLDG 'E'	GENERAL ALARM BLDG 'F'	TROUBLE ALARM	SUPERVISORY ALARM	FAN SHUTDOWN	FIRE DAMPER	NOTES	
	1	RISER BLDG 'A' FLOW	<u>9</u>	99	35	95	35	<u>5</u>	<u> </u>	S S	ΕA		
	2	RISER BLDG 'A' TAMPER									•		
	3	RISER BLDG 'B' FLOW		•					•	•			
	4	RISER BLDG 'B' TAMPER		_					_		•		
	5	RISER BLDG 'C' FLOW			•				•	•			
S	6	RISER BLDG 'C' TAMPER									•		
DEVICES	7	RISER BLDG 'D' FLOW				•			•	•			
1	8	RISER BLDG 'D' TAMPER									•		
INITIATING	9	RISER BLDG 'E' FLOW					•		•	•			
	10	RISER BLDG 'E' TAMPER									•		
	11	RISER BLDG 'F' FLOW						•	•	•			
	12	RISER BLDG 'F' TAMPER									•		
	13	BLDG 'A' INITIATING LOOP	•						•	•			
	14	BLDG 'B' INITIATING LOOP		•					•	•			
	15	BLDG 'C' INITIATING LOOP			•				•	•			
	16	BLDG 'D' INITIATING LOOP				•			•	•			
	17	BLDG 'E' INITIATING LOOP					•		•	•			
	18	BLDG 'F' INITIATING LOOP						•	•	•			
	19	CIRCUIT TROUBLE							•				
	20	AC POWER LOSS							•				
	21	LOW BATTERY POWER							•				
	22	SYSTEM TROUBLE							•				
	23	REMOTE POWER SUPPLY TROUBLE							•				



# **GENERAL**

# SHEET NOTES

- 1. PLANS ARE BASED UPON 99 MONITOR AND CONTROL DEVICES PER ADDRESSABLE LOOP. OTHER CONFIGURATIONS ARE ACCEPTABLE SUBJECT TO CONTRACTOR ALLOWING FOR INCREASED WIRING REQUIREMENTS AND SUBMITTAL DRAWINGS SHOWING NEW WIRING CONFIGURATION. MAXIMUM INITIAL DEVICES PER LOOP SHALL NOT EXCEED 75% MAXIMUM ALLOWABLE.
- 2. PLANS ARE BASED UPON THE WIRING SCHEDULE SHOWN. WHERE MANUFACTURER'S REQUIREMENTS EXCEED REQUIREMENTS SHOWN, INCLUDE ADDITIONAL ASSOCIATED COSTS AND SUBMITTAL DRAWINGS INDICATING NEW WIRING CONFIGURATION.
- 3. FLOW AND TAMPER CONFIGURATION BASED UPON FIRE SPRINKLER DESIGN CONCEPT. FIELD VERIFY ACTUAL REQUIREMENTS. INCLUDE ANY ADDITIONAL MONITOR MODULES REQUIRED BY ACTUAL DESIGN REQUIREMENTS.
- 4. BATTERY CAPACITY TO BE ADEQUATE TO OPERATE 15 MINUTES AFTER 24 HOURS PLUS 25% SPARE CAPACITY.
- 5. VFD REQUIRES TWO RELAYS, ONE FOR SMOKE CONTROL, ONE SPARE.
- 6. RUN SPARE LOOPS IN SAME CONDUIT. DO NOT EXCEED 40% AREA FILL OF CONDUITS.
- 7. PROVIDE DUCT DETECTORS FOR SUPPLY AND RETURN AIR SYSTEMS OVER 2000 CFM.
- 8. PROVIDE MANUAL PULL STATIONS IN BOILER ROOMS AND KITCHENS.
- 9. PROVIDE ONE YEAR OFF SITE MONITORING INCLUDING ALL INTERFACE DEVICES AND MONITORING CHARGES. COORDINATE WITH BUILDING OWNER'S OFF SITE MONITORING COMPANY.
- 10. LOCATE SMOKE DETECTORS MINIMUM 3' FROM AIR SUPPLY AND RETURN LOUVERS.
- 11. PROVIDE SYNCHRONIZED STROBES THROUGHOUT FACILITY. PROVIDE SYNCHRONIZATION MODULES PER MANUFACTURER'S REQUIREMENTS. INCLUDE ADDITIONAL WIRING, IF REQUIRED.
- 12. INITIATING AND INDICATING LOOPS SHALL NOT SERVE AN AREA OF GREATER THAN 22,500 SQUARE FEET. PROVIDE ADDITIONAL LOOPS FOR AREAS LARGER THAN THIS.
- 13. ALL OUTPUT DEVICES ARE DESIGNED ON SYSTEMS WITH 2 AMP POWER SUPPLY.
- 14. HORN/STROBE BASED ON 120 MILLIAMPS,
- DOOR HOLDERS BASED ON 70 MILLIAMPS.
- 15. INSTALL DUCT DETECTORS PER NFPA 72 REQUIREMENTS AND PROVIDE ADDITIONAL DUCT DETECTORS DEPENDING UPON FINAL DUCT ARRANGEMENT.

Donald L. Welch Architect

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THESE DRAWINGS ARE AVAILABLE FOR IMITED REVIEW AND EVALUATION BY CLIENTS CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNE NLY IN ACCORDANCE WITH THIS NOTICE.

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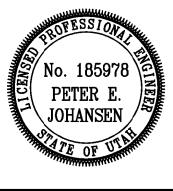
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project:

for New **Brighton** Recovery Campus

4931, & 4953 South 900 Salt Lake County, Utah

4905, 4911, 4915, 4925,

January 04, 2017

revisions

PERMIT SET-December 28, 2016 ADDENDUM #2-January 06, 2017 ADDENDUM #3-January 11, 2017 ADDENDUM #4-January 17, 2017 ADDENDUM #5-January 19, 2017 ADDENDUM #7-February 24, 2017

ADDENDUM #8-March 20, 2017 data

drawn by:

checked by:

FIRE ALARM RISER DIAGRAM