

Review Comments #2

Project:Brighton Recovery Campus-Building AFrom: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 A 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.

BUILDING A 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.

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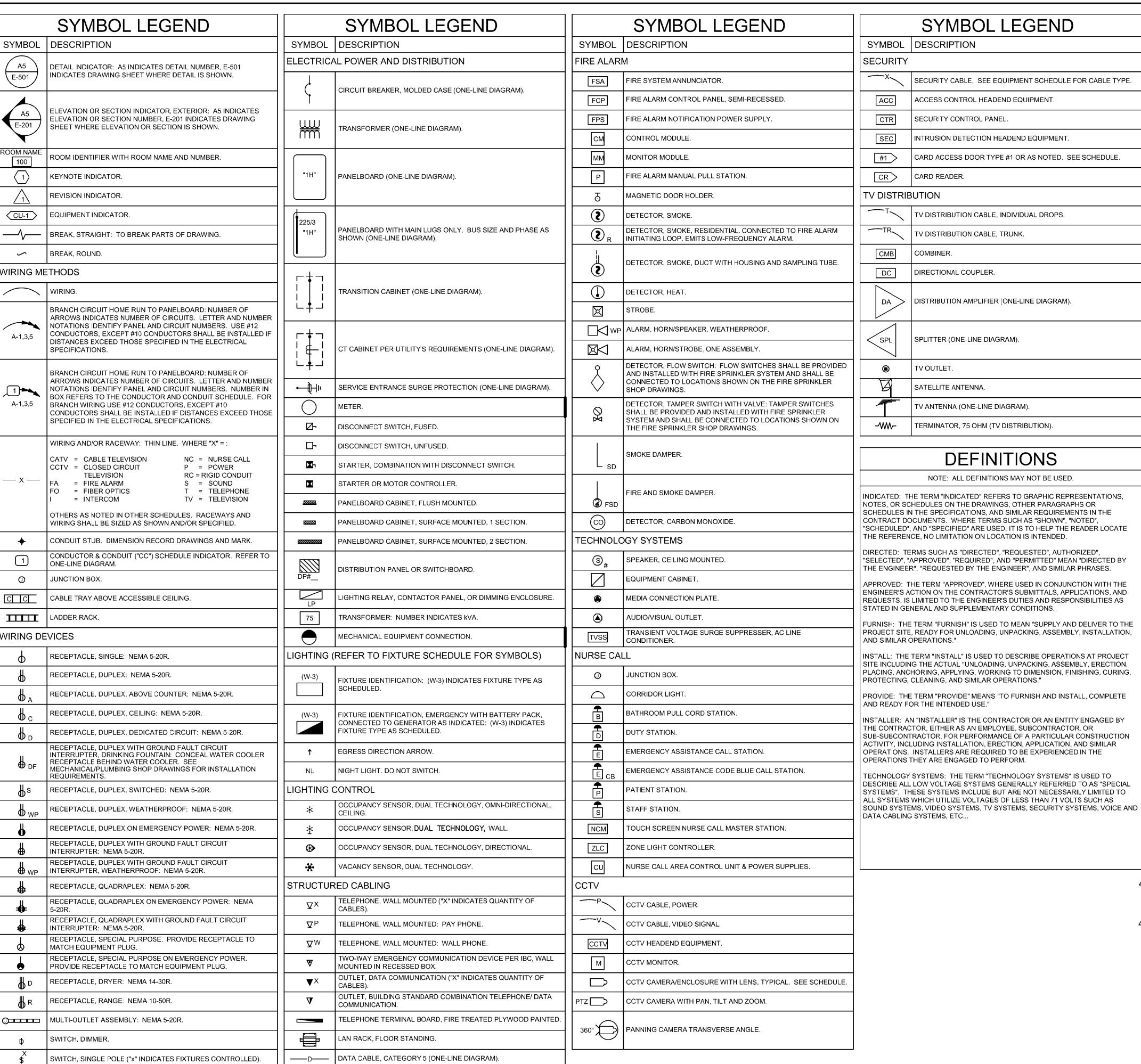
phone: 801-328-5151 fax: 801-328-5155

PHOENIX

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

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

fax: 480-621-3445



VOICE CABLE, CATEGORY 3 (ONE-LINE DIAGRAM).

REQUIRES (2) DATA DROPS PER DEVICE WAP DATA CONNECTION: WIRELESS ACCESS POINT (WAP). REQUIRES (2) DATA DROPS PER DEVICE

DATA CONNECTION: WIRELESS ACCESS POINT (WAP).

SWITCH, THREE-WAY ("x" INDICATES FIXTURES CONTROLLED).

SYMBOL LEGEND SYMBOL DESCRIPTION SECURITY SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE. ACCESS CONTROL HEADEND EQUIPMENT. SECURITY CONTROL PANEL. INTRUSION DETECTION HEADEND EQUIPMENT CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE SCHEDULE. CR CARD READER. TV DISTRIBUTION TV DISTRIBUTION CABLE, INDIVIDUAL DROPS TV DISTRIBUTION CABLE, TRUNK. COMBINER.

DIRECTIONAL COUPLER.

SPLITTER (ONE-LINE DIAGRAM)

TV ANTENNA (ONE-LINE DIAGRAM).

TERMINATOR, 75 OHM (TV DISTRIBUTION).

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS,

"SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE

"SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND

REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE

PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION,

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT

SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION,

PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING,

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY

SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR

THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR

OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO

ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS

SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO

THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE

CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED".

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED",

THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

OPERATIONS THEY ARE ENGAGED TO PERFORM.

AND SIMILAR OPERATIONS."

AND READY FOR THE INTENDED USE."

DATA CABLING SYSTEMS, ETC...

TV OUTLET.

SATELLITE ANTENNA

DISTRIBUTION AMPLIFIER (ONE-LINE DIAGRAM)

СМВ

SPL

GENERAL ELECTRICAL NOTES

- 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 INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.
- A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE 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 WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES. AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.
- C. THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY 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 INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.
- 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.

ELECTRICAL SHEET INDEX

	OTTAIONE OTTEET HADEN
SHEET NO	SHEET TITLE
EE001	SYMBOL SCHEDULE, SHEET INDEX
ES101	ELECTRICAL SITE PLAN
EP11A	POWER PLAN - BUILDING 'A'
EP401	TYPICAL POWER PLANS
EP501	DETAILS
EP502	DETAILS
EP503	DETAILS
EP601	ONE LINE DIAGRAM
EP602	PANEL SCHEDULES
EP603	PANEL SCHEDULES
EL11A	LIGHTING PLAN - BUILDING 'A'
EL601	LIGHTING FIXTURE SCHEDULE
EY11A	AUXILIARY PLAN - BUILDING 'A'
EY601	AUXILIARY RISER DIAGRAMS
EY602	AUXILIARY RISER DIAGRAMS
EY603	AUXILIARY RISER DIAGRAMS
FA11A	FIRE ALARM PLAN - BUILDING 'A'
FA601	FIRE ALARM RISER DIAGRAM

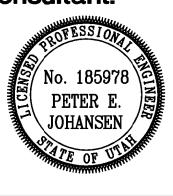
Welch

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

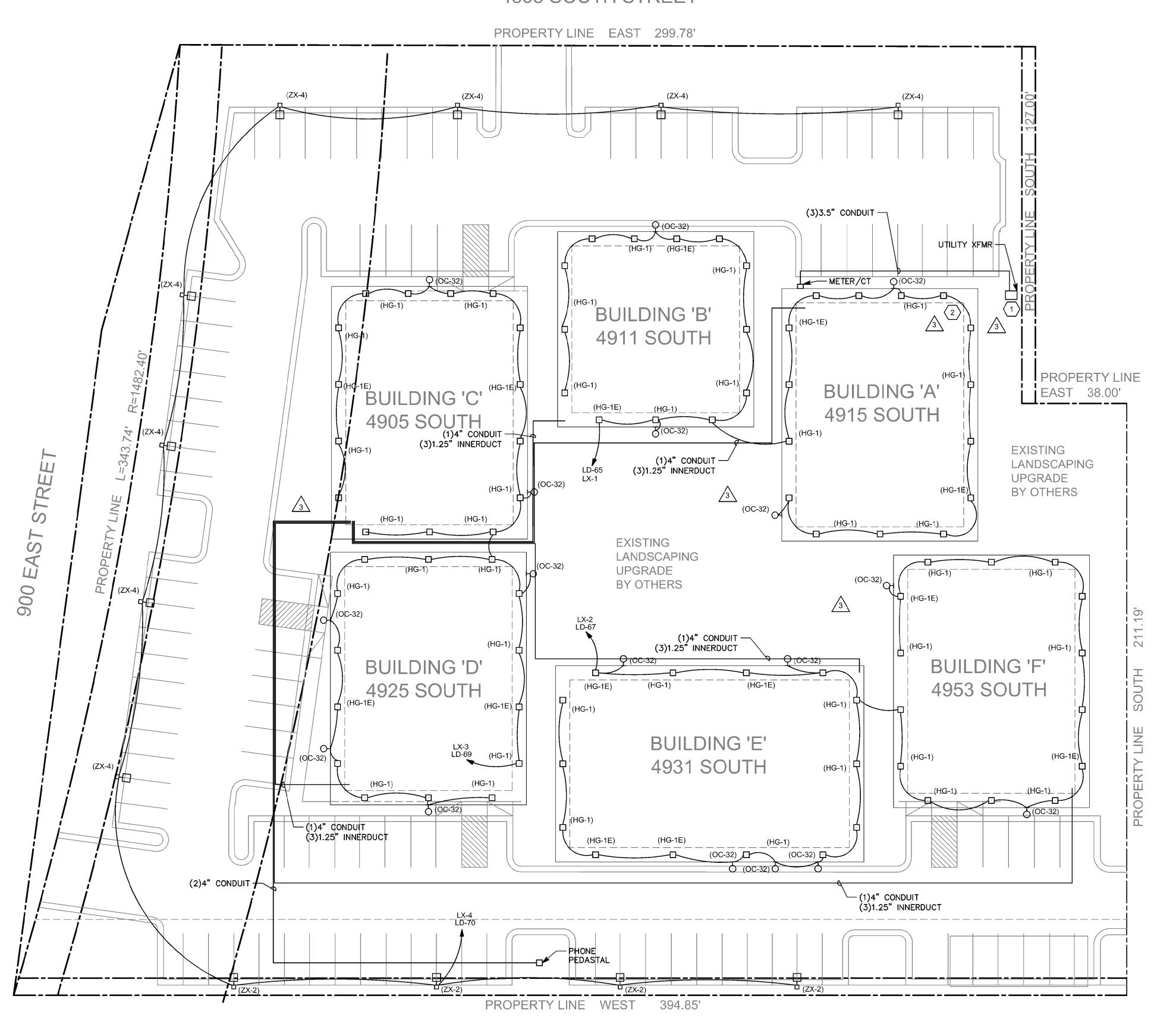
ADDENDUM #8-March 20, 2017

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SCHEDULE SHEET INDEX

sheet

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
533 Sandy Land Landidvale, Utah 8404

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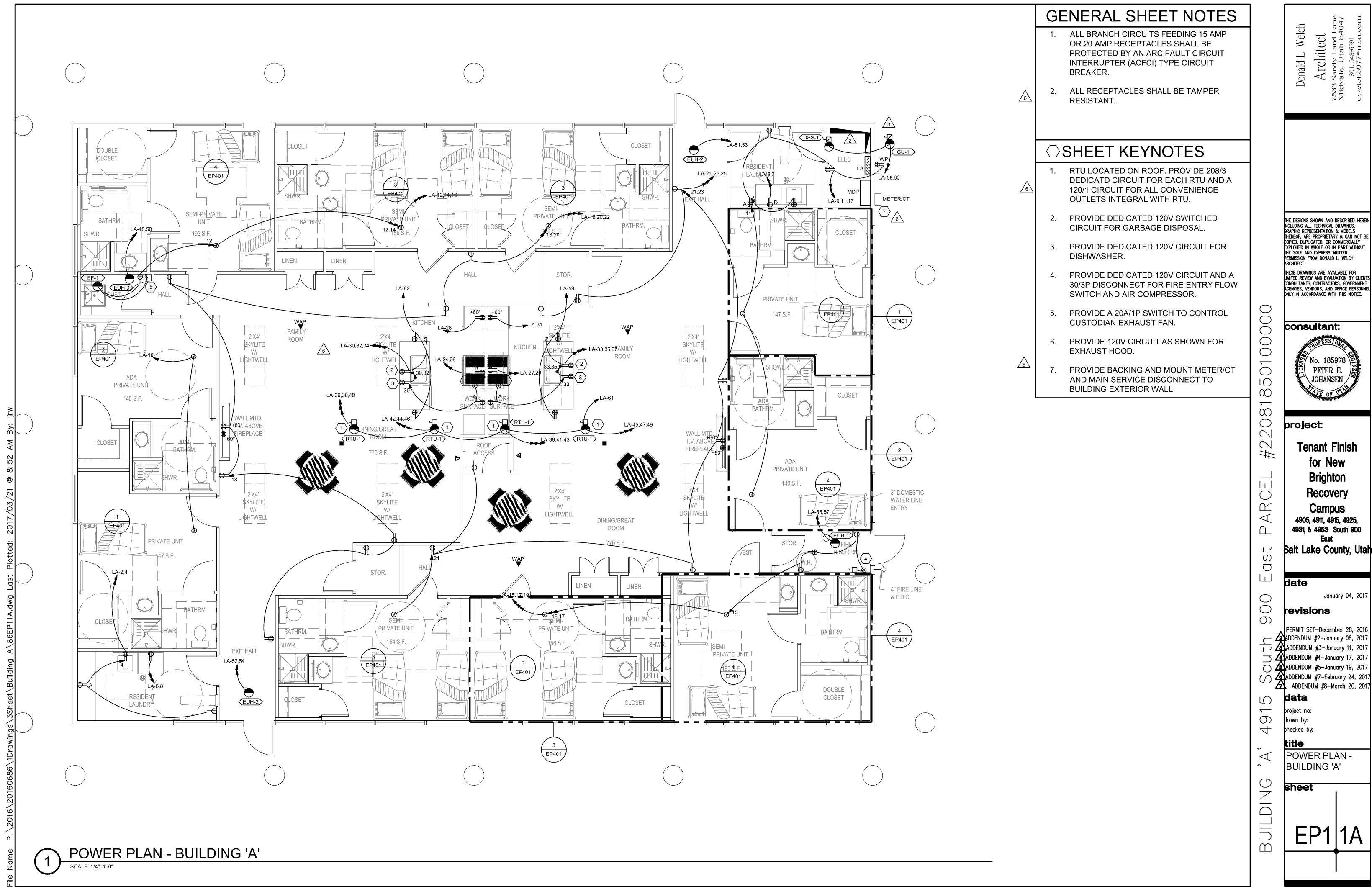
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ELECTRICAL SITE PLAN

ES1 01

1 ELECTRICAL SITE PLAN

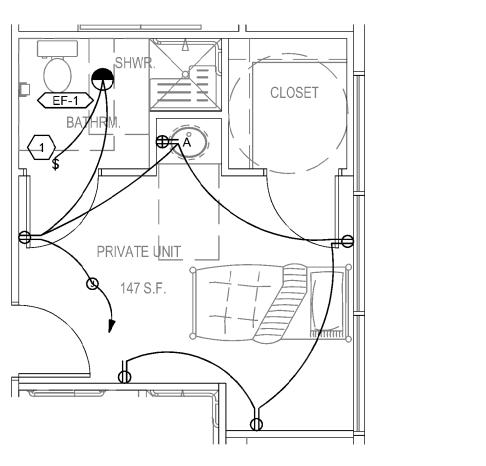


GENERAL SHEET NOTES

- 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.

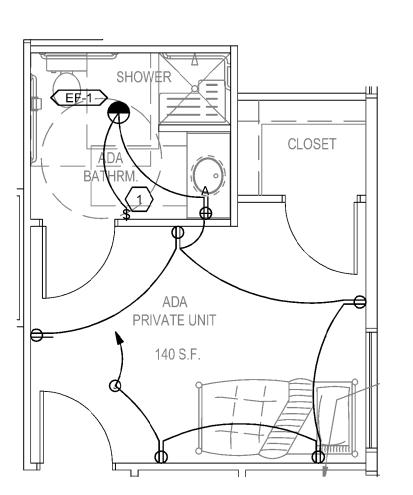
○SHEET KEYNOTES

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



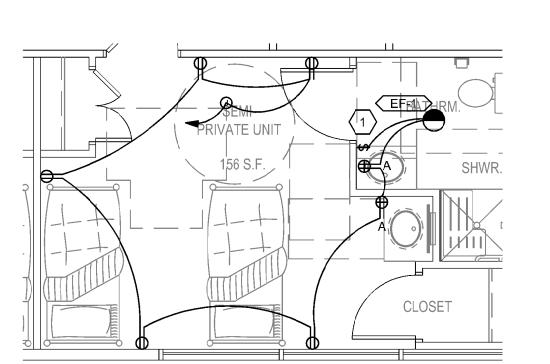
TYPICAL PRIVATE UNIT
POWER PLAN

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



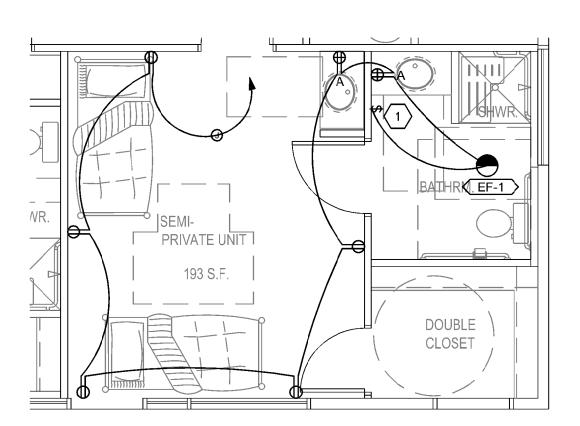
TYPICAL ADA PRIVATE
UNIT POWER PLAN

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



TYPICAL SEMI-PRIVATE
UNIT POWER PLAN

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



TYPICAL ADA SEMI-PRIVATE
UNIT POWER PLAN

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

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Donald L. Welch

Architect



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Salt Lake County, Utah

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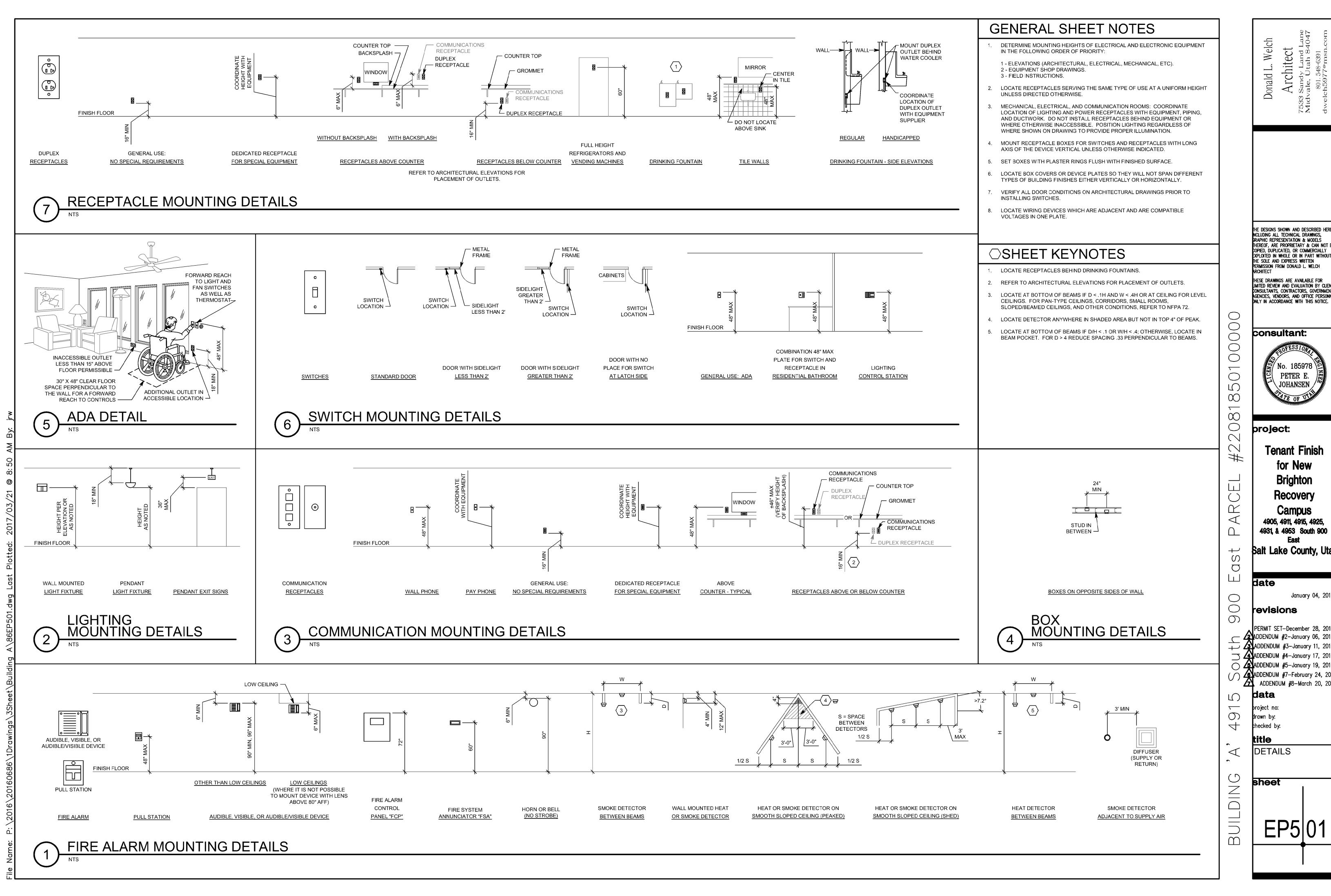
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TYPICAL POWER PLANS

sheet

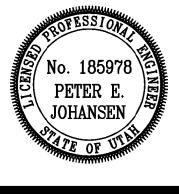
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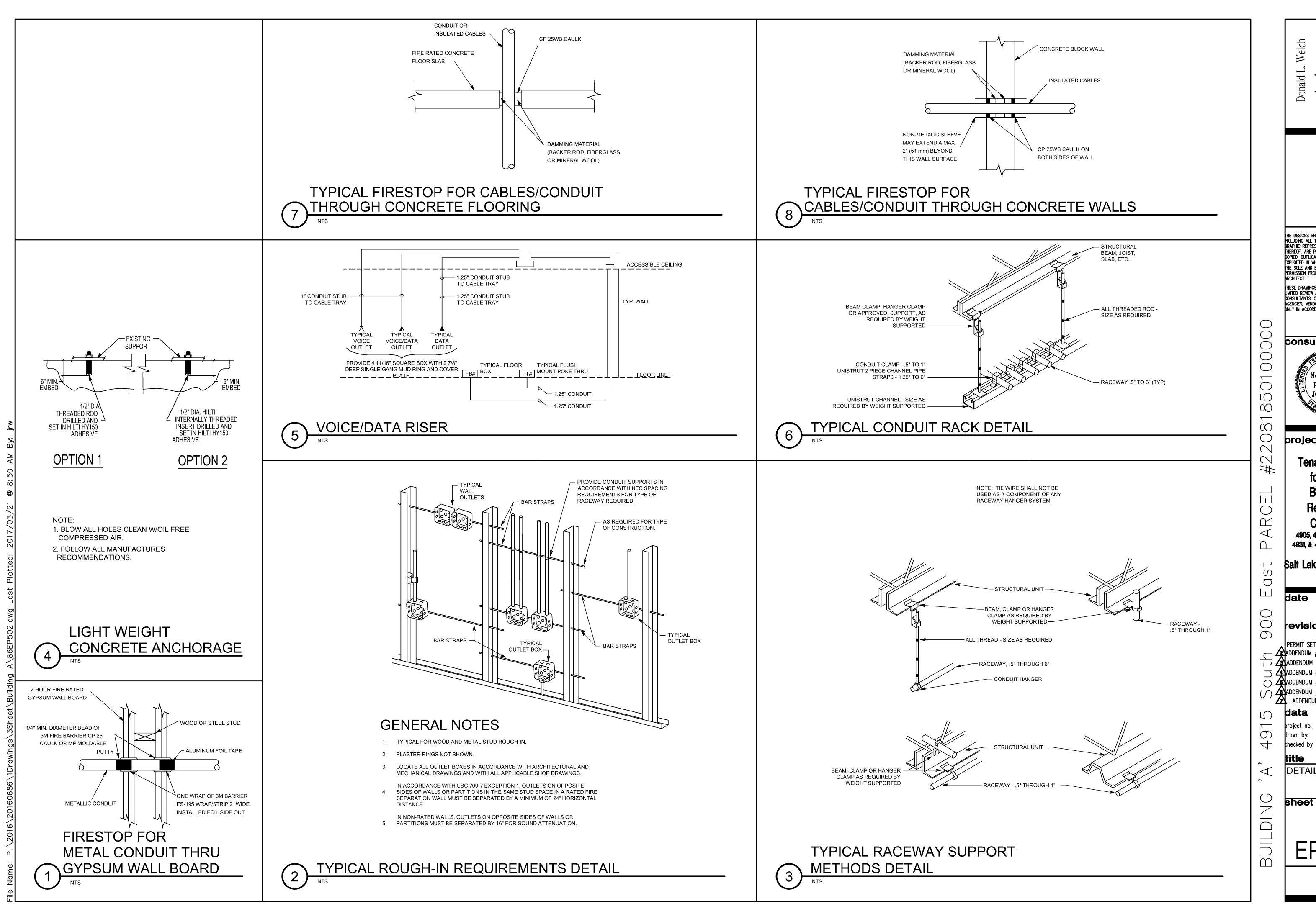
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for New **Brighton** Recovery Campus 4905, 4911, 4915, 4925, 4931, & 4953 South 900

Salt Lake County, Utah

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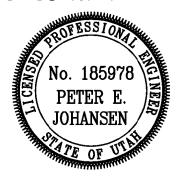


Donald L. Welch Architect

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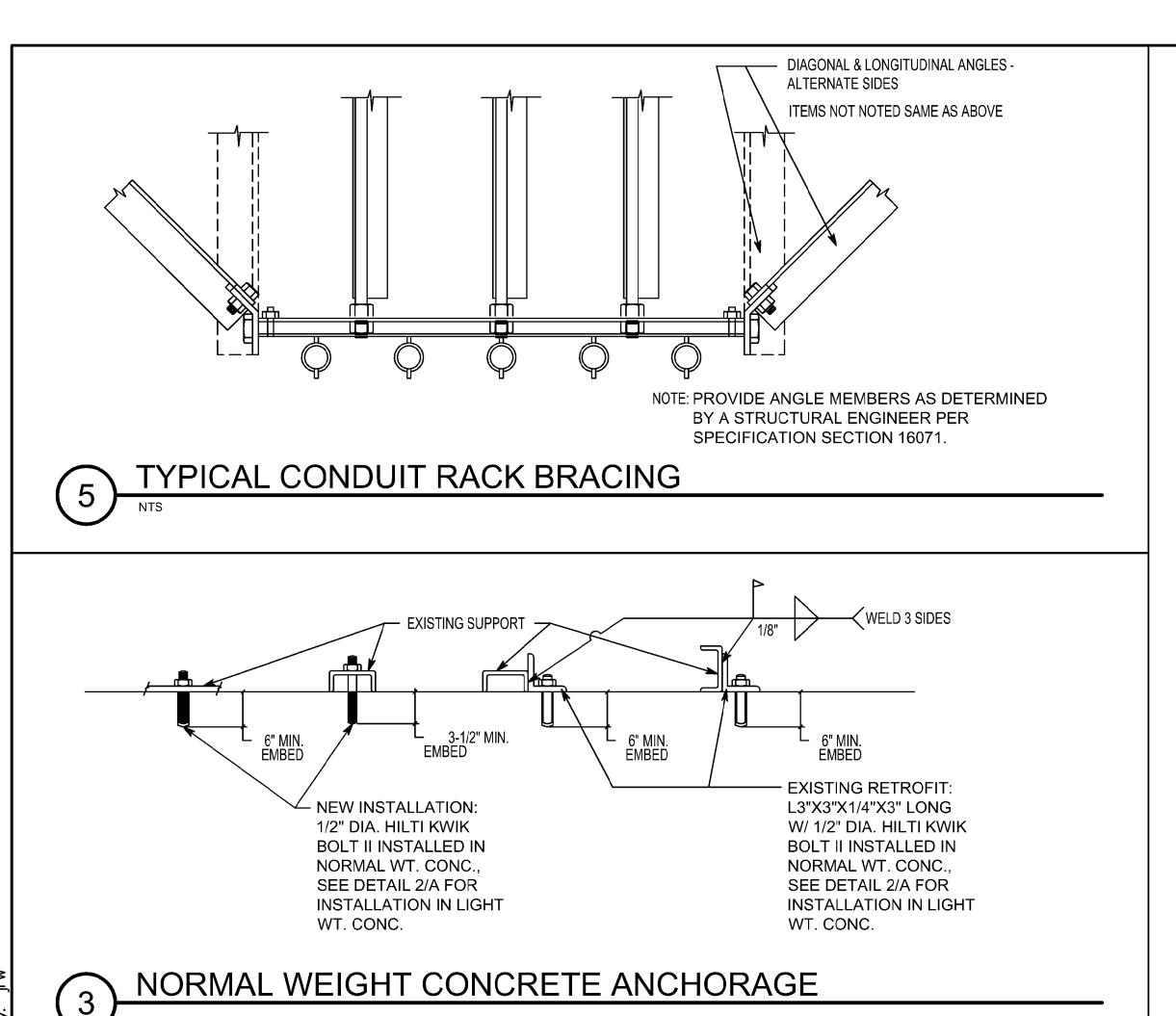
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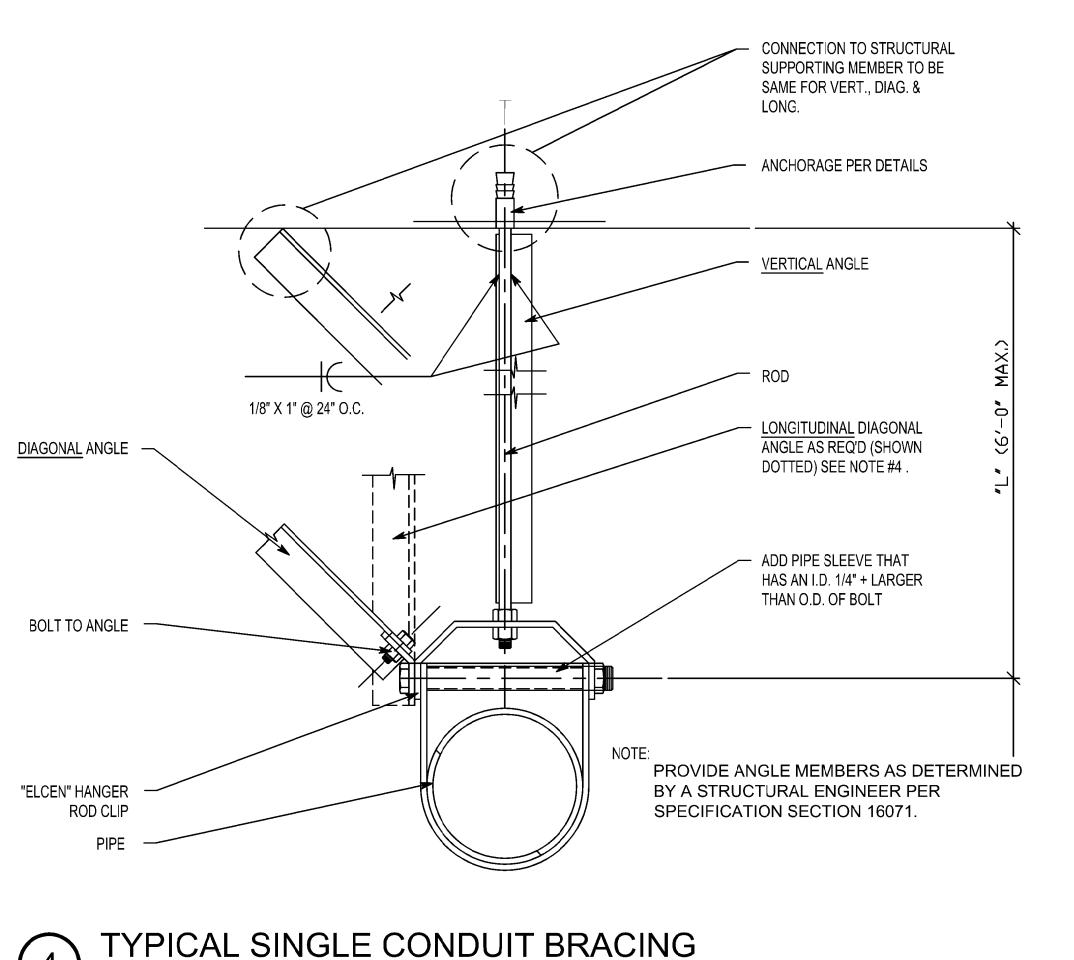
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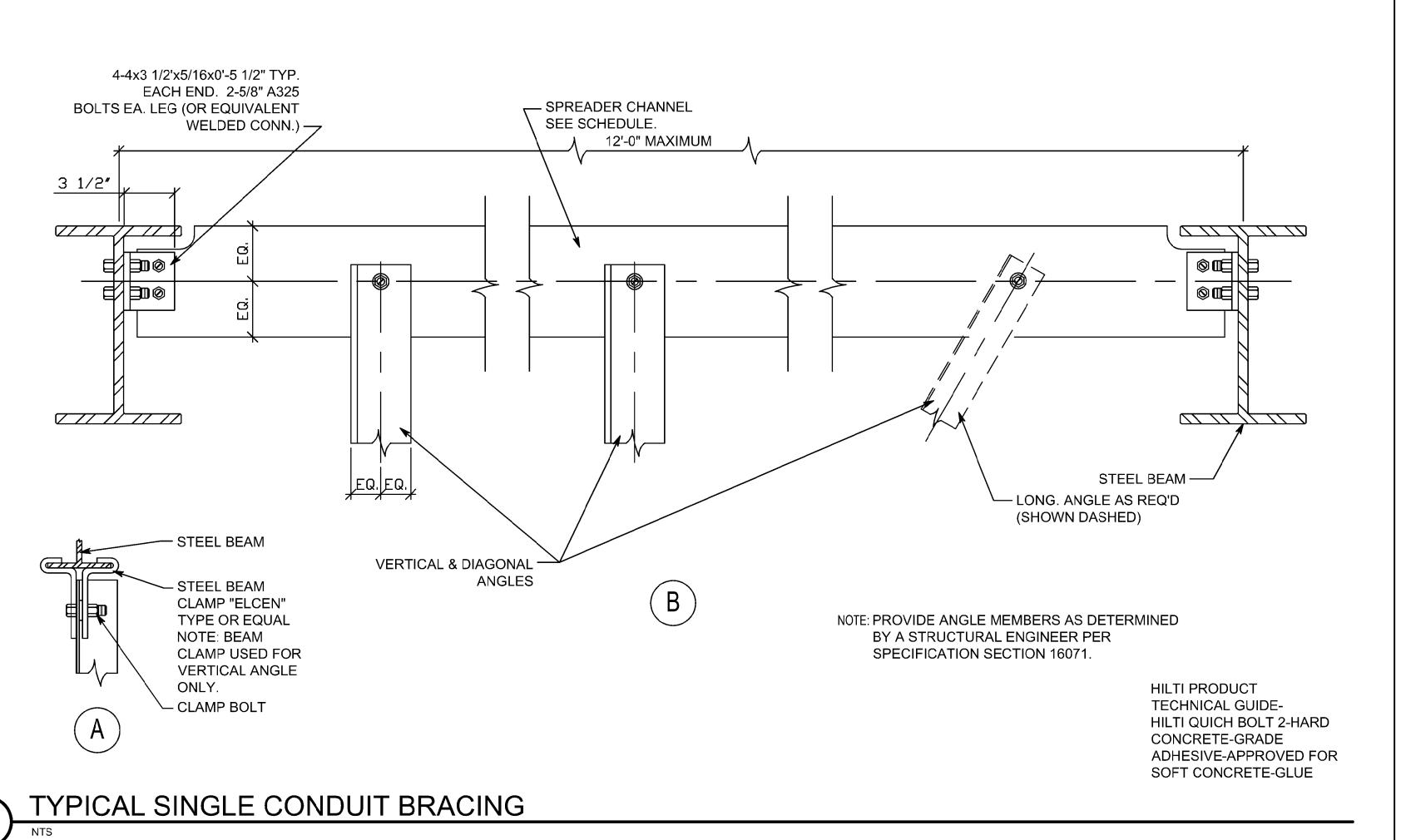
DETAILS

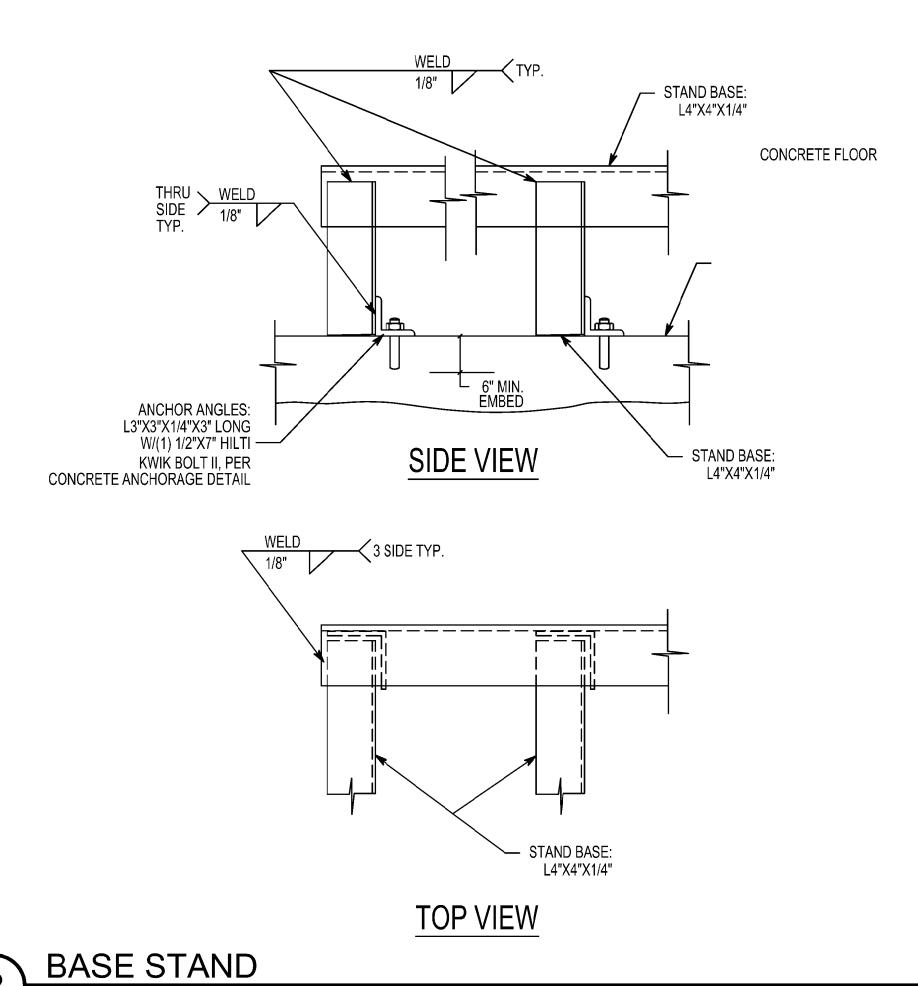




SEISMIC BRACING GENERAL NOTES

- 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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date January 04, 2017

Donald L. Welch

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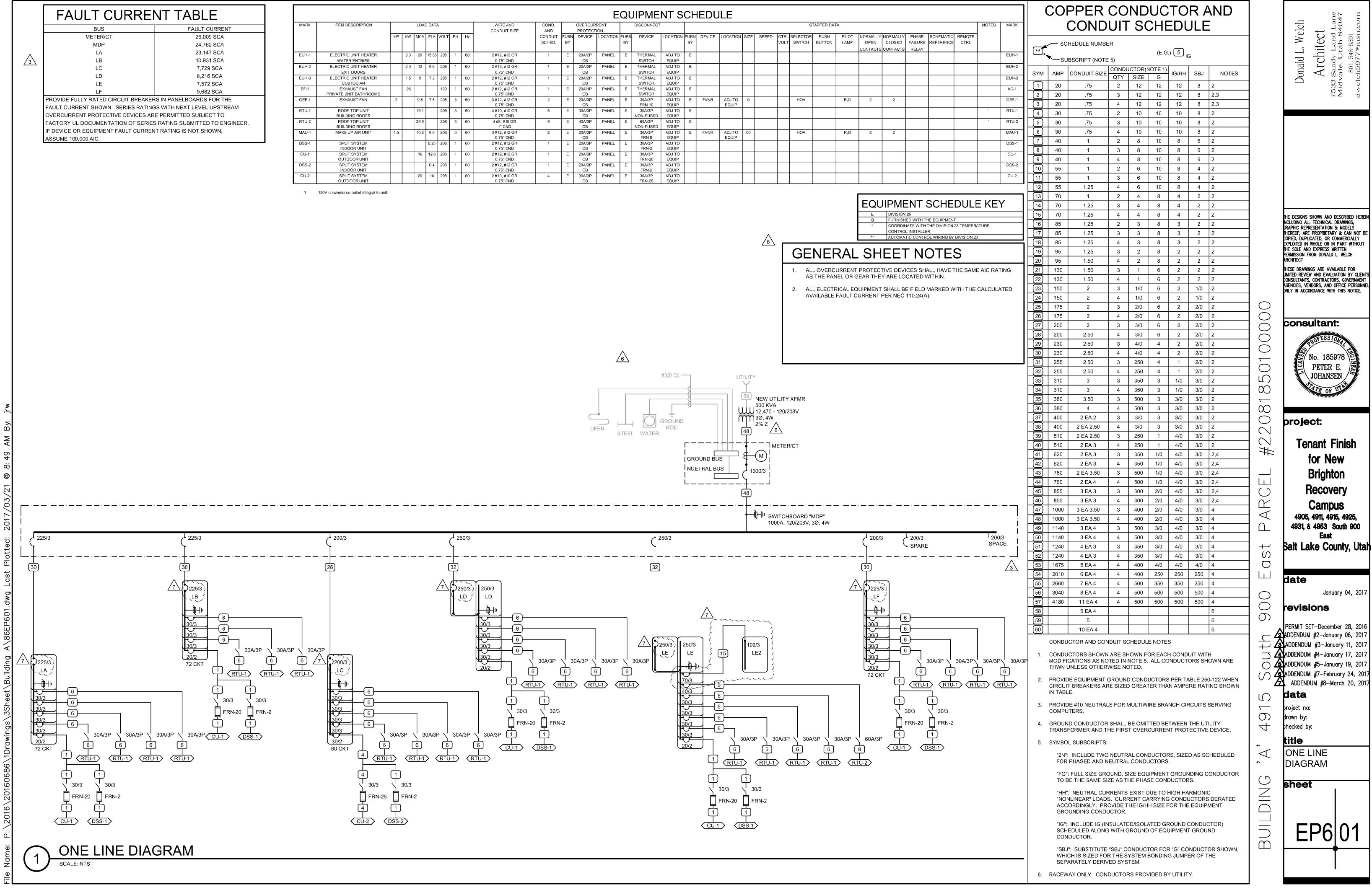
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DETAILS

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VOLT	S/PHA	SE/WIR	 !E:			MAIN SIZE & TYPE:	LOCA	TION:			<u>~~</u>	AIC RATING:	NOTES:						
120/2	08 V, 3	PH 4 W	VIRE			1000 AMP MAIN LUGS	BUILE	DING A				30,000 AIC							
ACCE	SSORI	ES:	IDEN	TIFICA	TION, (GROUNDING BAR, INSULATED GROU	JND BA	.R											
CKT	OCP	ı	LC	DAD (k'	VA)	PANEL / EQUIPMENT	LCL	PH/	ASE LO	DAD	LCL	PANEL / EQUIPN	/IENT	LC	AD (k\	/A)	OCP	1	CKT
NO	AMP	POLE	LTG	CO	PWR		kVA	Α	В	С	kVA			LTG	CO	PWR	AMP	POLE	NO
1	200	3	1.6	7.7	17.3	LA	27.0	59.6			33.7	LD		2.9	10.9	19.2	200	3	2
-	-	-	1.5	7.9	18.5	-	28.2		54.4		27.3	-		2.9	10.1	13.6	-	-	-
-	-	-	0.0	4.8	20.8	-	25.6			58.7	33.9	-		3.0	9.6	20.5	-	-	-
3	200	3	1.3	5.9	16.9	LB	24.4	57.8			34.1	LE		1.7	9.8	22.2	200	3	4
-	-	-	1.6	6.2	14.6	-	22.8		60.3		38.3	-		1.5	10.2	26.2	-	-	-
-	-	-	0.0	6.2	20.6	-	26.8			61.0	34.5	-		1.0	7.9	25.3	-	-	-
5	200	3	1.5	9.2	10.9	LC	22.0	48.3			27.2	LF		1.8	6.2	18.7	200	3	6
-	-	-	1.2	6.6	13.4	-	21.5		48.4		27.6	-		1.6	6.5	19.1	-	-	-
-	-	-	1.4	6.8	11.7	-	20.3			46.3	26.4	-		0.0	7.5	18.9	-	-	-
7	200	3			$oxed{oxed}$	SPARE	0.0	0.0			0.0	SPACE					-	3	8
		-			$oxed{oxed}$	-	0.0		0.0		0.0	-					-		-
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TOTA	LS:					CONNECTED kVA PER F	PHASE	166	163	166				CONN	ECTE	ATOT (L kVA	495	
						CONNECTED AMPS PER F	PHASE	1381	1360	1383		CONI	NECTED AVE	RAGE	AMPS	PER P	HASE	1375	
NEC I	DIVERSIFIED LOAD CALCULATIONS LIGHTING 27kVA @125% = 33 kVA						ΑΠ	OTHE	RIOA	DS @10	00% =	328 kVA		וח	VFRSI	FIED T	OTAL	kVA =	436
		PTACLE		_						ST MO		0 kVA		AVER/					1212
		AINDEF		_						_	-	•					-		-

						^	,			~~	~~ <u>`</u>							
						<u></u>	PA	NA	EL	"L	A "}	$\frac{\sqrt{3}}{3}$						
VOLT	S/PHAS	SE/WIF	 RE:			PANEL SIZE & TYPE:	TMAIN	SIZE 8	TYPE:	<u></u>		LOCATION:	AIC R	ATING	:	NOTE	S:	
1	08 V, 3					22" W x 6" D, BOLT-ON		МР МА					42,000					
ACCE	SSORI	ES:	PANE	L DIRE		Y, IDENTIFICATION, GROUNDING BA	AR, INSU	JLATE	D GRO	UND B	AR		<u> </u>					
СКТ	OCP			AD (kV		DESCRIPTION	LCL		ASE LC		LCL	DESCRIPTION	LC	AD (k\	/A)	OCP		CKT
NO	AMP	POLE	LTG	CO	PWR		kVA	Α	В	С	kVA		LTG	CO	PWR	AMP	POLE	NO
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	<u>-</u>			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	<u>-</u>			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		0.8		RTU CO's	8.0	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		<u> </u>		20	1	72
TOTA	LS:					CONNECTED kVA PER I		27	28	26			CONN				80	
				<u> </u>		CONNECTED AMPS PER	PHASE	221	232	213		CONNECTED AV	/ERAGE	AMPS	PER P	HASE	222	
NEC [DIVERS												_	_				
			ING 3k	_		4 kVA			R LOAI	_		57 kVA		IVERSI				77
	RECEP			_		10 kVA	259	% OF L	ARGES	ST MO	IOR =	2 kVA	AVER	AGE AI	MPS PE	R PHA	SE =	215
	REM	IAINDE	ER 10k\	VA @	50% =	5 kVA												

		SE/WIF PH 4 V				PANEL SIZE & TYPE: 22" W x 6" D, BOLT-ON		SIZE 8 MP MA		:		LOCATION:	AIC R	ATING	í:	NOTE	S:	
	SSOR			I DIDE	CTOD	Y, IDENTIFICATION, GROUNDING B				IIND B	AD SI	IREEED LUGS	22,00	U AIC				-
CKT				AD (k\		DESCRIPTION	LCL		ASE LO		LCL	DESCRIPTION	1 10	DAD (k\	<u></u>	ОСР	,	-
NO		POLE	_	CO	PWR	DESCRIPTION	kVA	A	В	С	kVA	DESCRIPTION	LTG		PWR	AMP		-
1	20	1	1.3	- 00	FVVIX	LIGHTING	1.6	2.6	Ь .		1.3	DRYER LAUNDRY B125	1 - 10		1.3	30	2	_
3	20	1	1.3			LIGHTING	1.6	2.0	2.6		1.3	DRIER LAUNDRI B125			1.3	30		-
5	30	2	1.5		1.3	DRYER LAUNDRY B101	1.3		2.0	1.7	0.4	CO LAUNDRY B125		0.4	1.3	20	1	-
7	30				1.3	DICTER EAGINDICT BTOT	1.3	2.3		1.7	1.0	WASHER B125		1.0	+	20	1	-
9	20	1		1.4	0.2	ROOMS B104, B105	1.6	2.5	3.2		1.6	ROOMS B12, B123		1.4	0.2	20	1	-
11	20	1		1.0	0.2	WASHER LAUNDRY B101	1.0		3.2	2.3	1.3	WH/PUMP/FIRE COMP		1.3	10.2	20	1	-
13	20	1		0.8		CO ROOMS B101, B102	0.8	2.0		2.0	1.2	ROOM B119		1.1	0.1	20	<u> </u>	-
15	20	1		0.2	0.1	CO & EF-1 CUST B106	0.3	2.0	1.5		1.2	ROOM B117		1.1	0.1	20	1	-
17	20	1		1.1	0.1	ROOM B108	1.2		1.0	2.2	1.0	REFRIGERATOR B129		1.0	 0.1	20	1	-
19	20	1		1.1	0.1	ROOM B111	1.2	1.7		2.2	0.5	CO DINING B127		0.5	\vdash	20	<u> </u>	-
21	20	1		0.5	0.1	CO FAMILY RM B114	0.5	1.7	1.3		0.8	CO FAMILY/STOR. B128,B121		0.8	_	20	1	-
23	20	1		0.8		CO DINING RM B113	0.8		1.0	3.2	2.4	RANGE B129		0.0	2.4	50	2	-
25	20	1		1.0		REFRIGERATOR B115	1.0	3.4		0.2	2.4	-			2.4		-	-
27	50	2		1.0	2.4	RANGE B115	2.4	0.4	3.4		1.0	GARBAGE DISP.			1.0	20	1	-
29	_	-			2.4	-	2.4		0.7	3.4	1.0	DISHWASHER B129			1.0	20	1	-
31	20	1		0.2	2.7	CO KITCHEN B115	0.2	0.4		0.4	0.2	CO KITCHEN B129		0.2	 	20	<u> </u>	-
33	20	1		0.2	1.0	DISHWASHER B115	1.0	0.4	2.9		1.9	RTU-1		0.2	1.9	30	3	-
35	20	1			1.0	GARBAGE DISP. B115	1.0		2.0	2.9	1.9				1.9	_	-	-
37	30	3			1.9	RTU-1	1.9	3.8		2.0	1.9	_			1.9	_	<u> </u>	-
39	-	_			1.9	-	1.9	0.0	2.9		1.0	EUH-2			1.0	20	2	
41	<u> </u>	_			1.9	_	1.9			2.9	1.0	_			1.0		-	-
43	30	3			1.9	RTU-1	1.9	2.7			0.8	EUH-3			0.8	20	2	-
45	-	_			1.9	-	1.9		2.7		0.8	_			0.8		-	-
47	_	_			1.9	-	1.9			3.6	1.7	EUH-1			1.7	20	 	-
49	20	2			0.8	EUH-3	0.8	2.5		0.0	1.7	_			1.7	-	_	-
51	-	-			0.8	-	0.8		1.1		0.4	EGRESS LIGHTING	0.3			20	1	-
53	20	2			1.0	EUH-2	1.0			2.7	1.7	CU-1/DSS-1			1.7	20	2	-
55	-	-			1.0	-	1.0	2.7			1.7	-			1.7	-	-	-
57	20	1		0.4		KITCHEN ISLAND CO	0.4		0.8		0.4	KITCHEN ISLAND CO		0.4		20	1	-
59	20	1		0.6		RTU CO'S	0.6			1.6	1.0	SMOKE DETECTORS			1.0	20	1	-
61	20	1				SPARE	0.0	0.0			0.0	SPARE				20	1	
63	20	1				SPARE	0.0		0.0		0.0	SPARE				20	1	
65	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	
67	20	1				SPARE	0.0	0.0			0.0	SPARE				20	1	
69	20	1				SPARE	0.0		0.0		0.0	SPARE				20	1	
71	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	
ТОТА	LS:					CONNECTED kVA PER	PHASE	24	22	26			CONN	ECTE	D TOTA	L kVA	73	
						CONNECTED AMPS PER	PHASE	201	187	221		CONNECTED AV	ERAGE	AMPS	PER F	HASE	203	3
NEC [DIVERS	SIFIED	LOAD	CALCL	JLATIO	NS												•
		LIGHTI	NO SIA	/A @4	050/	4 kVA		OTI IE	D I O ()	DS @10	000/	52 kVA		N/EDO	IEIED T	OTAL I	L-3. / A	

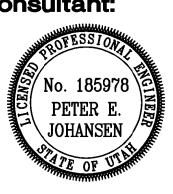
						<u>/₇\</u>	Z(PA		<u>L</u> L	"L	じ "}	2						
VOLT	S/PHAS	SE/WIF	RE:			PANEL SIZE & TYPE:	MAIN	SIZE &	TYPE:	:		LOCATION:	AIC R	ATING	:	NOTE	S:	
120/20	08 V, 3	PH 4 V	VIRE			22" W x 6" D, BOLT-ON	200 A	MP MA	IN CB				10,000	O AIC				
ACCE	SSORI	ES:	PANE	L DIRE	CTORY	/, IDENTIFICATION, GROUNDING B	AR, INSU	JLATE	O GRO	UND B	AR, SU	BFEED LUGS						
CKT	OCP		LO	AD (kV	'A)	DESCRIPTION	LCL	PH/	ASE LC)AD	LCL	DESCRIPTION	LC	AD (k\	/A)	OCP		Ck
NO	AMP	POLE	LTG	CO	PWR		kVA	Α	В	С	kVA		LTG	CO	PWR	AMP	POLE	N
1	20	1	1.5			LIGHTING	1.9	2.3			0.8	CO FIRE RM/FIRE COMP		0.2	0.6	20	1	2
3	20	1	1.2			LIGHTING	1.5		2.0		0.8	GROUP ROOM C127		0.8		20	1	4
5	20	1	1.0			LIGHTING	1.3			1.8	0.8	GROUP ROOM C126		0.8		20	1	6
7	20	1		8.0		CO RECPTION C122	0.8	2.0			1.2	GROUP ROOM C130,128		1.2		20	1	8
9	20	1		1.6		CO OFFICES C117, C116	1.6		2.4		8.0	GROUP ROOM C131		0.8		20	1	10
11	20	1		1.4		CO OFFICES C115, C114	1.4			2.4	1.0	WH/PUMP/CO CUST C133		0.2	0.8	20	1	12
13	20	1		8.0		CO CUBICLES	0.8	1.6			8.0	CO CUBICLES		0.8		20	1	14
15	20	1		8.0		CO OFFICE C106	0.8		1.8		1.0	COPIER COPY C121		1.0		20	1	16
17	20	1		1.4		CO OFFICES C107, C108	1.4			2.8	1.4	CO C129, C125, C132		1.2	0.2	20	1	18
19	20	1		1.0		REFRIGERATOR C113	1.0	2.4			1.4	CO CORR C118, 109, 102		1.4		20	1	20
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	-			1.9	-	-	2
25	20	1		1.0		CO MEDS C112	1.0	2.9			1.9	-			1.9	-	-	20
27	20	1		0.4		CO MEDS C112	0.4		2.3		1.9	RTU-1			1.9	30	3	28
29	20	1		8.0		CO BREAK ROOM C113	0.8			2.7	1.9	-			1.9	-	-	30
31	20	1		0.4		CO LAB C111	0.4	2.3			1.9	-			1.9	-	-	32
33	20	1		0.2		CO LAB C111	0.2		1.2		1.0	EUH-2			1.0	20	2	34
35	20	1		1.0		REFRIGERATOR C111	1.0			2.0	1.0	-			1.0	-	-	36
37	30	3			1.9	RTU-1	1.9	3.6			1.7	EUH-1			1.7	20	2	38
39	-	-			1.9	-	1.9		3.6		1.7	-			1.7	-	1	40
41	-	-			1.9	-	1.9			2.3	0.5	EGRESS LIGHTING	0.4			20	1	42
43	30	3			1.9	RTU-1	1.9	2.5			0.6	CO ELEC C115A		0.6		20	1	44
45	-	-			1.9	-	1.9		4.0		2.1	CU-2/DSS-2			2.1	30	2	46
47	-	-			1.9	-	1.9			4.0	2.1	-			2.1	-	-	48
49	20	2			1.0	EUH-2	1.0	1.6			0.6	RTU CO'S		0.6		20	1	50
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	54
55	20	1				SPARE	0.0	0.0			0.0	SPARE				20	1	56
57	20	1				SPARE	0.0		0.0		0.0	SPARE				20	1	58
59	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	60
TOTA	LS:					CONNECTED KVA PER CONNECTED AMPS PER			22 182	21 179	ARC	CONNECTED AV	CONN ERAGE					
	DIVERS	LIGHTI TACLE	NG 4k\ ES 10k\	/A @12 /A @10	25% =		ALL	OTHE	R LOAI	DS @1	00% =	36 kVA 0 kVA	DI AVERA		FIED T MPS PE			58 16

#2208185 ARCEL ast 900 491 \checkmark BUILDING

Donald L. Welch Architect s Sandy Land L vale, Utah 840 801. 548-6391 lch5977@msn.c

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, SRAPHIC REPRESENTATION & MODELS HEREOF, 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 LIMITED REVIEW AND EVALUATION BY CLIENTS CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNEL DNLY IN ACCORDANCE WITH THIS NOTICE.

consultant:



project:

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

Salt Lake County, Utah

January 04, 2017

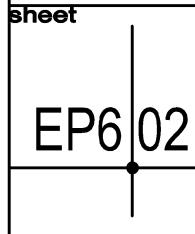
revisions

PERMIT SET-December 28, 2016
ADDENDUM #2-January 06, 2017 ADDENDUM #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:

PANEL SCHEDULES



VOLT	S/PHA	SE/WIF	RE:			PANEL SIZE & TYPE:	MAIN	SIZE 8	TYPE	:		LOCATION:	AIC R	ATING	i:	NOTE	S:	
120/2	08 V, 3	PH 4 V	VIRE			22" W x 6" D, BOLT-ON	100 A	MP MA	IN LUC	SS			10,000	O AIC				
	SSOR		PANE	L DIRE	CTOR	Y, IDENTIFICATION, GROUNDING B	AR, INSI	JLATE	O GRO	UND B	AR, SL	JBFEED LUGS						
CKT	OCP		_	AD (k\		DESCRIPTION	LCL	PH	ASE LC	DAD	LCL	DESCRIPTION		AD (k	, 	OCP		СКТ
NO	-	POLE	LTG	CO	PWR		kVA	Α	В	С	kVA		LTG	co	PWR		POLE	
1	20	2			0.8	EUH-3	0.8	1.0			0.2	CO SERVING E140		0.2		20	1	2
3	-	-			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	-	-			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	0.8	0.8			0.0	SPARE				20	1	14
15	-	-			0.8	-	0.8		8.0		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	ECTE	ATOT C	L kVA	17	
						CONNECTED AMPS PER	PHASE	53	45	46		CONNECTED AV	/ERAGE	AMPS	PER P	HASE	48	
1EC I	DIVERSIFIED LOAD CALCULATIONS LIGHTING 0kVA @125% = 0 RECEPTACLES 5kVA @100% = 5				25% = 00% =	NS 0 kVA 5 kVA 0 kVA		OTHE		_		13 kVA 0 kVA	DI AVERA		IFIED T MPS PI			17 48

				LIGHTING	CONTROL PANEL	SCHEDULE				
LX										
			AUTOMA	TI¢ CONTROL			OVERRIDE CON	TROL 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	EPC	EPC				EPC	
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

						<u>/</u> 7\	<u> </u>	<u> </u>	$\overline{}$	$\overline{}$	<u> </u>	<u>/</u> 3\						
		SE/WIF 3 PH 4 V				PANEL SIZE & TYPE: 22" W x 6" D, BOLT-ON		SIZE & MP MA				LOCATION:	AIC R.	ATING DAIC		NOTE	S:	
ACCE	SSOF	IES:	PANE	L DIRE	CTOR'	Y, IDENTIFICATION, GROUNDING BA	AR, INSI	JLATEI	O GRO	UND B	AR, SU	BFEED LUGS						
СКТ	OCI)	LO	AD (kV	/A)	DESCRIPTION	LCL	PHA	ASE LC	AD	LCL	DESCRIPTION	LO	AD (k\	/A)	OCP		СКТ
NO	AMP	POLE	_		PWR		kVA	A	В	С	kVA		LTG	<u> </u>		AMP	POLE	NO
1	20	T 1	1.2			LIGHTING	1.5	2.2		-	1.0	WASHER LAUNDRY E127		1.0		20	1	2
3	20	1	1.5			LIGHTING	1.9		2.8		1.3	DRYER LAUNDRY E127			1.3	30	2	4
5	20	1	1.0			LIGHTING	1.3			2.3	1.3	-			1.3	-		6
7	30	2			1.3	DRYER LAUNDRY E101	1.3	2.0			0.7	CO E134, E127		0.6	0.1	20	1	8
9	_	 			1.3	-	1.3		2.9		1.6	ROOMS E125,E126		1.4	0.2	20	1	10
11	20	1		1.4	0.2	ROOMS E103, E104	1.6			2.8	1.2	ROOM E119		1.1	0.1	20	1	12
13	20	 		1.0	0.2	WASHER LAUNDRY E101	1.0	2.2		2.0	1.2	ROOM E122		1.1	0.1	20	1	14
15	20	1		0.6		CO ROOMS E101,E102	0.6	2.2	0.9		0.3	CO/EF-1 CUSTODIAN E124		0.2	0.1	20	1	16
17	20	 		0.0	0.8	WH/PUMP/CO STORAGE	1.0		0.0	2.2	1.2	ROOM E118		1.1	0.1	20	1	18
19	20	 		1.1	0.0	ROOM E107	1.2	2.1		2.2	0.9	CO FAMILY ROOM E131	+	0.9	0.1	20	1	20
21	20	 		1.1	0.1	ROOM E110	1.2	2.1	1.8		0.6	CO DINING ROOM E130	+	0.6		20	1	22
23	20	1 1		1.1	0.1	ROOM E111	1.2		1.0	2.2	1.0	REFRIGERATOR E132	+	1.0		20	1	24
25	20	1		1.0	U. I	CO DINING E113	1.0	1.2		۷.۷	0.2	CO KITCHEN E132	+	0.2		20	1	26
25	20	1		0.6		CO DINING E113 CO FAMILY E114	0.6	1.2	3.0		2.4	RANGE E132	+	U.Z	2.4	<u>∠∪</u> 50	2	28
29	20	1		1.0		REFRIGERATOR E115	1.0		ა.0	3.4	2.4	RANGE E 132	+		2.4	υU		30
		<u> </u>		1.0	2.4			2.4		3.4		- DICUMA CHED E422				- 20	-	
31	50	2			2.4	RANGE E115	2.4	3.4	0.4		1.0	DISHWASHER E132			1.0	20	1	32
33	-	-			2.4	-	2.4		3.4		1.0	GARBAGE DISP E132			1.0	20	1	34
35	20	1			1.0	GARBAGE DISPOSAL	1.0			2.9	1.9	RTU-1			1.9	30	3	36
37	20	1			1.0	DISWASHER E115	1.0	2.9			1.9	-			1.9	-	-	38
39	20	1		0.2		CO KITCHEN E115	0.2		2.1		1.9	-			1.9	-	-	40
41	30	3			1.9	RTU-1	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	-	-			1.9	-	1.9		3.8		1.9	-			1.9	-	-	46
47	30	3			1.9	RTU-1	1.9			3.8	1.9	RTU-2			1.9	40	3	48
49	-	-			1.9	-	1.9	3.8			1.9	-			1.9	-	-	50
51		-			1.9	-	1.9		3.8		1.9	-			1.9	-	-	52
53	20	2			0.8	EUH-3	0.8			1.8	1.0	EUH-2			1.0	20	2	54
55	-	-			0.8	-	0.8	1.8			1.0	-			1.0	-	-	56
57	20	2			1.0	EUH-2	1.0		1.8		8.0	EUH-3			8.0	20	2	58
59	-	-			1.0	-	1.0			1.8	0.8	-			0.8	-	-	60
61	20	1	0.5			EGRESS LIGHTS	0.6	0.9			0.4	KITCHEN ISLAND CO		0.4		20	1	62
63	20	2			1.7	CU-1/DSS-1	1.7		2.7		1.0	SMOKE DETECTORS			1.0	20	1	64
65	_	-			1.7	-	1.7			1.7	0.0	SPARE				20	1	66
67	20	1		1.0		RTU CO'S	1.0	1.0			0.0	SPARE				20	1	68
69	20	1		0.4		KITCHEN ISLAND CO	0.4		0.4		0.0	SPARE				20	1	70
71	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	72
73	20	1				SPARE	0.0	0.0			0.0	SPARE				20	1	74
75	20	1				SPARE	1.7		0.0		0.0	SPARE				20	1	76
77	20	1				SPARE	1.7			0.0	0.0	SPARE				20	1	78
79	20	1				SPARE	0.0	6.4			6.4	LE2		1.5	4.9	70	3	80
81	20	1				SPARE	0.0		8.5		8.5	-	1	5.1	3.4	-	-	82
83	20	1				SPARE	0.0			5.5	5.5	-		1	4.5	-	-	84
TOTA		1	1			CONNECTED kVA PER	PHASE	34	38	34			CONN	ECTED		L kVA	106	ı
	•					CONNECTED AMPS PER			316	285		CONNECTED AV						
NEC	DIVER	SIFIED	LOAD	CALCU	JLATIO													
		LIGHT				5 kVA	ALL	OTHE	R LOAE	OS @10	00% =	74 kVA	DI	VERSI	FIED T	OTAL I	VA =	98
	RECE	PTACLI		_		10 kVA		% OF L		_		0 kVA	AVER/					
				/A @ :		9 kVA								• •				- · -

120/2	S/PHAS 08 V, 3 SSORI	PH 4 W	/IRE	DIRE	CTOR	PANEL SIZE & TYPE: 22" W x 6" D, BOLT-ON Y, IDENTIFICATION, GROUNDING BA	225 A	SIZE & MP MA JLATEI	IN CB		AR	LOCATION: 6	AIC R 10,00	ATING 0 AIC	:	NOTE	S:	
CKT	OCP			AD (kV		DESCRIPTION	TLCL		ASE LC		LCL	DESCRIPTION	Τ ι σ	DAD (k\	/A)	OCP		СК
NO		POLE			PWR	DESCRIPTION	kVA	—	В	С	kVA	DESCRIPTION	LTG	, `	PWR	AMP		NO
	_	PULE		CO	FVVK	LICHTING		Α	Ь		_	DDVED LAUNDDV E407	LIG					
1	20	1	1.5			LIGHTING	1.9	2.8			1.3	DRYER LAUNDRY F127			1.3	30	2	2
3	20	1	1.6		4.0	LIGHTING	2.0		2.9		1.3	-		4.4	1.3	-	-	4
5	30	2			1.3	DRYER LAUNDRY F101	1.3	0.0		2.9	1.6	ROOMS F125,F126		1.4	0.2	20	1	6
7	-	-		4.4	1.3	-	1.3	2.3			1.0	WASHER LAUNDRY F127		1.0		20	1	8
9	20	1		1.4	0.2	ROOMS F103,F104	1.6		2.0	- 0	0.4	CO LAUNDRY F127		0.4	0.4	20	1	10
11	20	1		1.0		WASHER LAUNDRY F101	1.0	4.0		2.2	1.2	ROOM F119		1.1	0.1	20	1	12
13	20	1		0.6	0.4	CO ROOMS F101,F102	0.6	1.8	4.5		1.2	ROOM F122		1.1	0.1	20	1	14
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
17	20	1		1.1	0.1	ROOM F107	1.2			2.1	0.9	CO DINING F130		0.9		20	1	18
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
21	20	1		1.1	0.1	ROOM F111	1.2		2.4	4.0	1.2	ROOM F118		1.1	0.1	20	1	22
23	20	1		0.6		CO DINING F113	0.6			1.6	1.0	REFRIGERATOR F132		1.0		20	1	24
25	20	1		0.9		CO FAMILY F114	0.9	3.3			2.4	RANGE F132			2.4	50	2	26
27	20	1		1.0		REFRIGERATOR F115	1.0		3.4		2.4	-			2.4	-	-	28
29	50	2			2.4	RANGE F115	2.4			3.4	1.0	GARBAGE DISP. F132			1.0	20	1	30
31	-	-			2.4	ı	2.4	3.4			1.0	DISHWASHER F132			1.0	20	1	32
33	20	1			1.0	GARBAGE DISP. F115	1.0		1.2		0.2	KITCHEN CO F132		0.2		20	1	34
35	20	1			1.0	DISHWASHER F115	1.0			2.9	1.9	RTU-1			1.9	30	3	36
37	20	1		0.2		CO KITCHEN F115	0.2	2.1			1.9	-			1.9	-	-	38
39	30	3			1.9	RTU-1	1.9		3.8		1.9	ı			1.9	-	-	40
41	-	-			1.9	1	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			2.9	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	1		0.8	20	2	52
53	-	-			1.7	<u>-</u>	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		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	1	0.4		20	1	62
63	20	1				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	1			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	1			20	1	70
71	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	72
TOTA	LS:					CONNECTED KVA PER CONNECTED AMPS PER		27	27	26			CONN	IECTE	ATOT (L kVA	80	

25% OF LARGEST MOTOR = 0 kVA

RECEPTACLES 10kVA @100% =

REMAINDER 10kVA @ 50% =

10 kVA

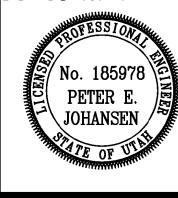
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Architect

Donald L. Welch

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consultant:



project:

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

Salt Lake County, Utah

January 04, 2017

PERMIT SET-December 28, 2016 ADDENDUM #3-January 11, 2017 ADDENDUM #4-January 17, 2017

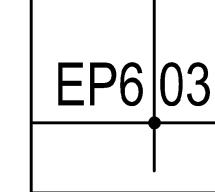
ADDENDUM #5-January 19, 2017 ADDENDUM #7-February 24, 2017
ADDENDUM #8-March 20, 2017

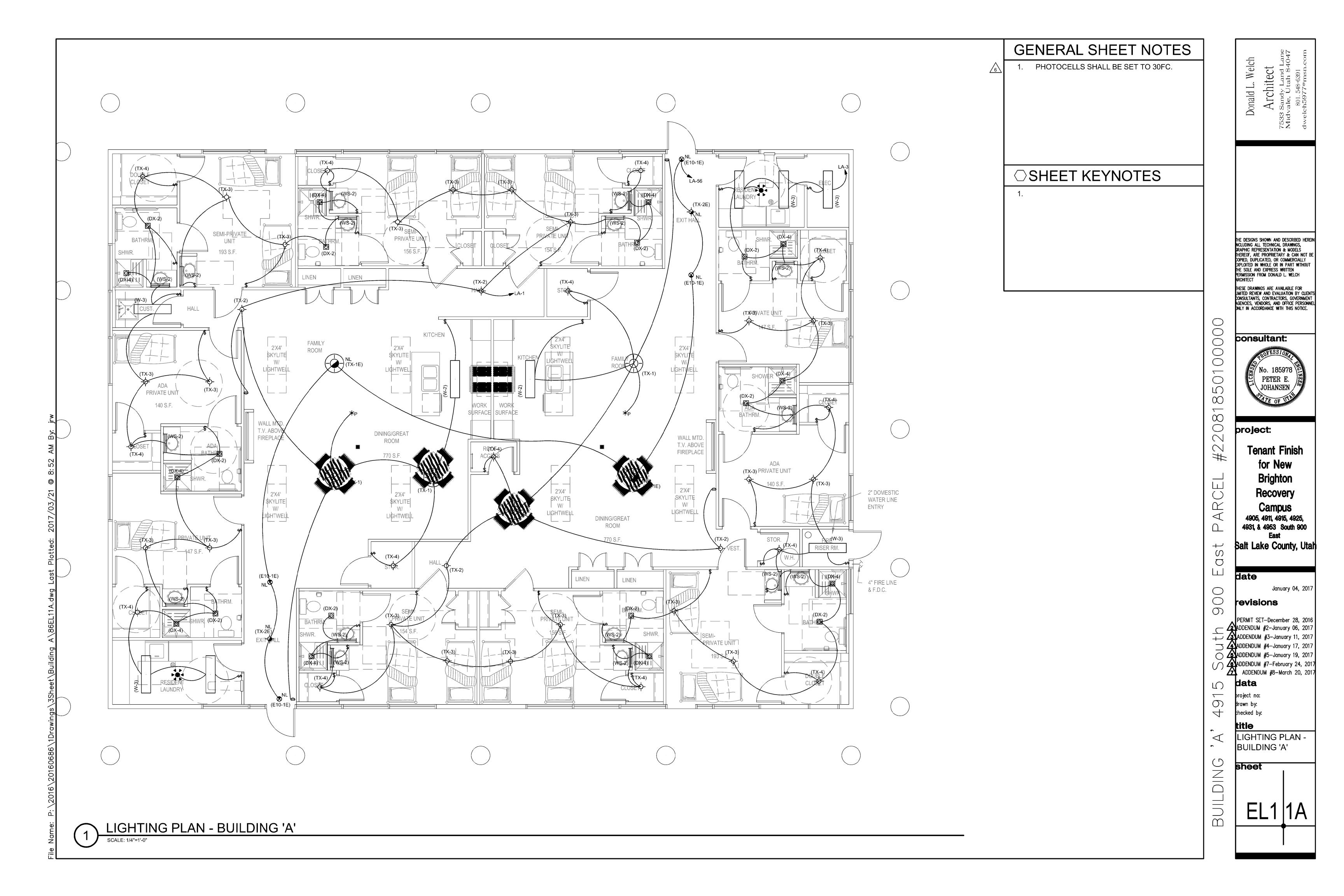
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SCHEDULES

sheet

AVERAGE AMPS PER PHASE = 211





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)

	BALLAST	S REQUIRED	UNLESS NOTED OTHERWISE. DIMENSION	SEQUENCE =	(LENGTH	X WIDTH X D	EPTH) IN INCHES.			
			FIXTURE CHARACTERISTICS							
			BODY / AIR / MOUNTING / DOOR							
	SYMBOL	MARK	LENS/LOUVER/REFLECTOR/OTHER	LAMP	WATTS	VOLTS	MANUFACTURER	CATALOG NUMBER	NO	TES
		DX	LED DOWNLIGHT; THERMALLY PROTECT	ED HOUSING	S: TO ACCO	MMODATE M	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

Е	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
	NO DIGAGOEMBLY FOR TECTINO

	TEST SWITCH AND AC "ON" INDICATOR; 10 YEAR PRO	-RATA WAF	RRANTY; INS	TALL TEST SWITCH IN	I A MANNER THAT REQ
	NO DISASSEMBLY FOR TESTING.				
E	EMERGENCY BATTERY PACK.	3W	120/277V	DUAL-LITE	UFO 6WI
	self testing ballasts			BODINE	REDITEST
				LITHONIA	PS1400QD SD
				EMERGILITE	EDDI/II

	EVENLINT BAL1400
E10	EXIT SIGN: METAL HOUSING; CEILING MOUNT, SEE DRAWINGS; ARROWS PER PLANS; LED LAMPS; EDGE LIGHTED CLEAR
	LENS; GREEN LETTERS ON CLEAR BACKGROUND. MUST MEET NFPA ILLUMINATION STANDARDS. UNITS SHOWN ARE CEILING
	MOUNT MODELS. CONTRACTOR TO PROVIDE MATCHING LOW LEVEL WALL MOUNTED UNITS WHERE REQUIRED.

	MOUNT MODELS. CONTRACTOR TO PROV	IDE MATCHIN	IG LOW LE	/EL WALL M	OUNTED UNITS WHEF	RE 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

EXTERIOR CANOPY FIXTURES

HG-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				

OCATION
(

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

3500K

	BITOTIZZET INTOTT	000011	1000 20			
TX	SPECIAL FIXTURES AS INDICATED. MEET	ALL REQUIR	EMENTS OF	SPECIFICA	TIONS AND FIXTURE	SCHEDULE. VISUAL AND
	FINISH APPROVAL REQUIRED.					
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
TV 2	Curfosa Mauratad	LED	2414/	120/277/	DETACAL CO	FIEDO 60 4200 2500V DC 6N
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: SURFAC ACRYLIC PRISMATIC DIFFUSER; WHITE					
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;	LED	48W	277/120V	LITHONIA	LBL4 LP840
	APPROX; 3" X 10" X 48"	3500K			COLUMBIA	LWC4 40 ML EU
	X 48".				METALUX	WNLED LD1 41 1 UNV L835 CD1 U
	4800 LUMENS				DAYBRITE	OWL450L835UNV
WS	WALL MOUNTED LED LOCATED ABOVE	WALL ELEME	ENT (MIRROR	/WHITEBOAF	RD, ETC.): AS INDIC	CATED ON DRAWINGS;
WS-2	36" LED VANITY LIGHT	LED	19W	120/277V	EDGE LIGHT	TW12 S11 1RE 36" 30k CH
	SATIN CHROM FINISH	3500K			EUREKA	3541 35 LED 17.40 120/277 SC WH
	2.25" WIDE				LBL	LW496 OP XX LED 277
ZX	OUTDOOR AREA LIGHT. SINGLE HEAD BELOW; RATED 100 MPH WITH 1.3 GUS		S SHOWN ON	DRAWINGS	. WET LABEL. LED	LIGHT ENGINE, OPTICS AND DRIVERS ACCESSIBLE FROM
ZX-2	LED POLE MOUNTED AREA LIGHT,	LED	72W	120/277V	LITHONIA	DSX0-LED-20C-1000-35K-T2M-MVOLT-HS
	TYPE II OPTICS, BRONZE FINISH	3500K	3500 LU			
	HOUSE SIDE SHIELD					
	9' SSS POLE, FINISH TO MATCH FIXTUR	RE				
ZX-4	LED POLE MOUNTED AREA LIGHT,	LED	72W	120/277V	LITHONIA	DSX0-LED-20C-1000-35K-T4M-MVOLT-HS
	TYPE IV OPTICS, BRONZE FINISH	3500K	3500 LU			
	211 31 1133, Brianizz 1 1111311					
	HOUSE SIDE SHIELD					

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Donald L. Welch

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project:

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

Salt Lake County, Utah

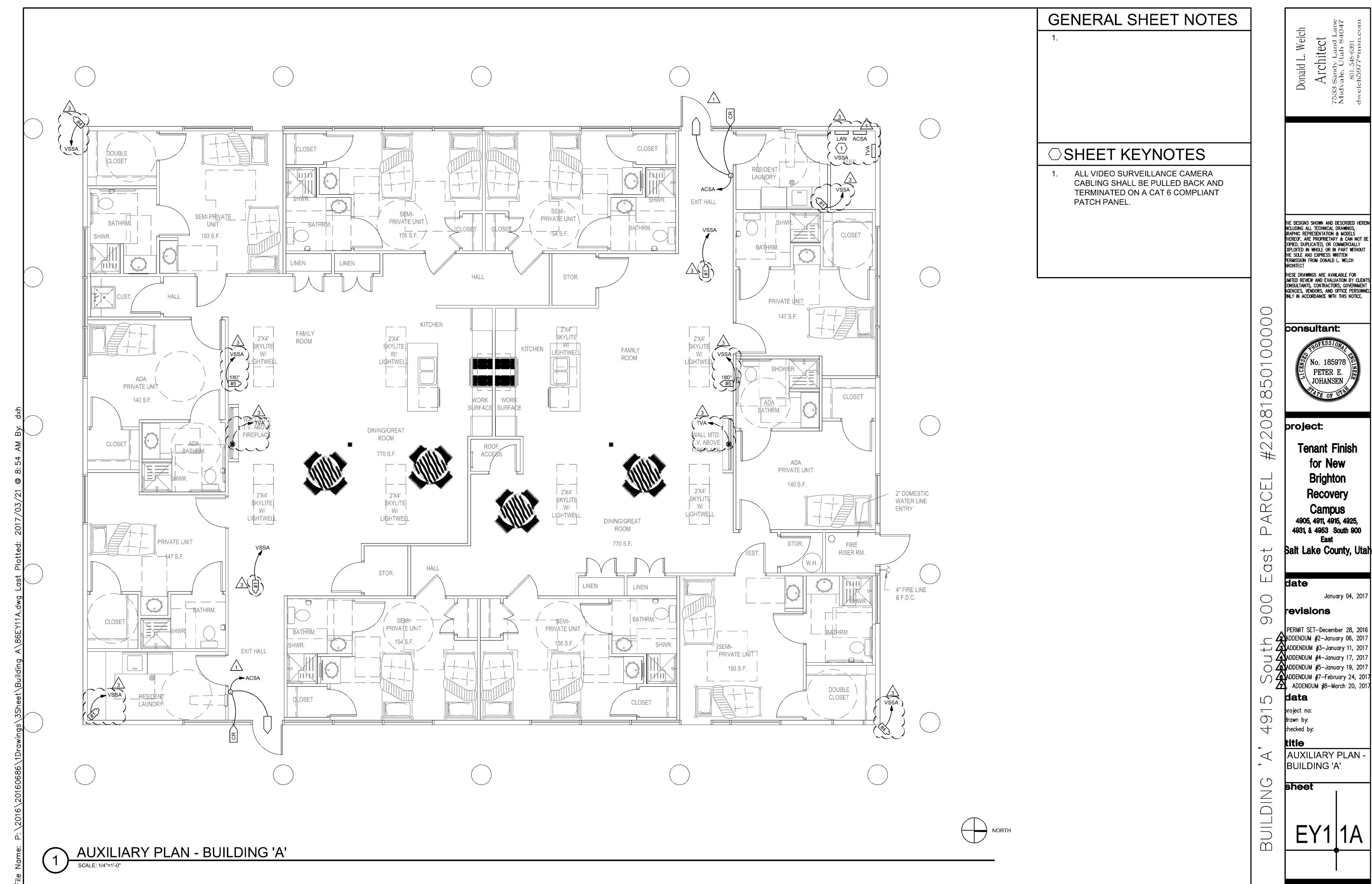
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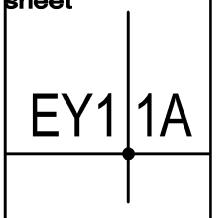
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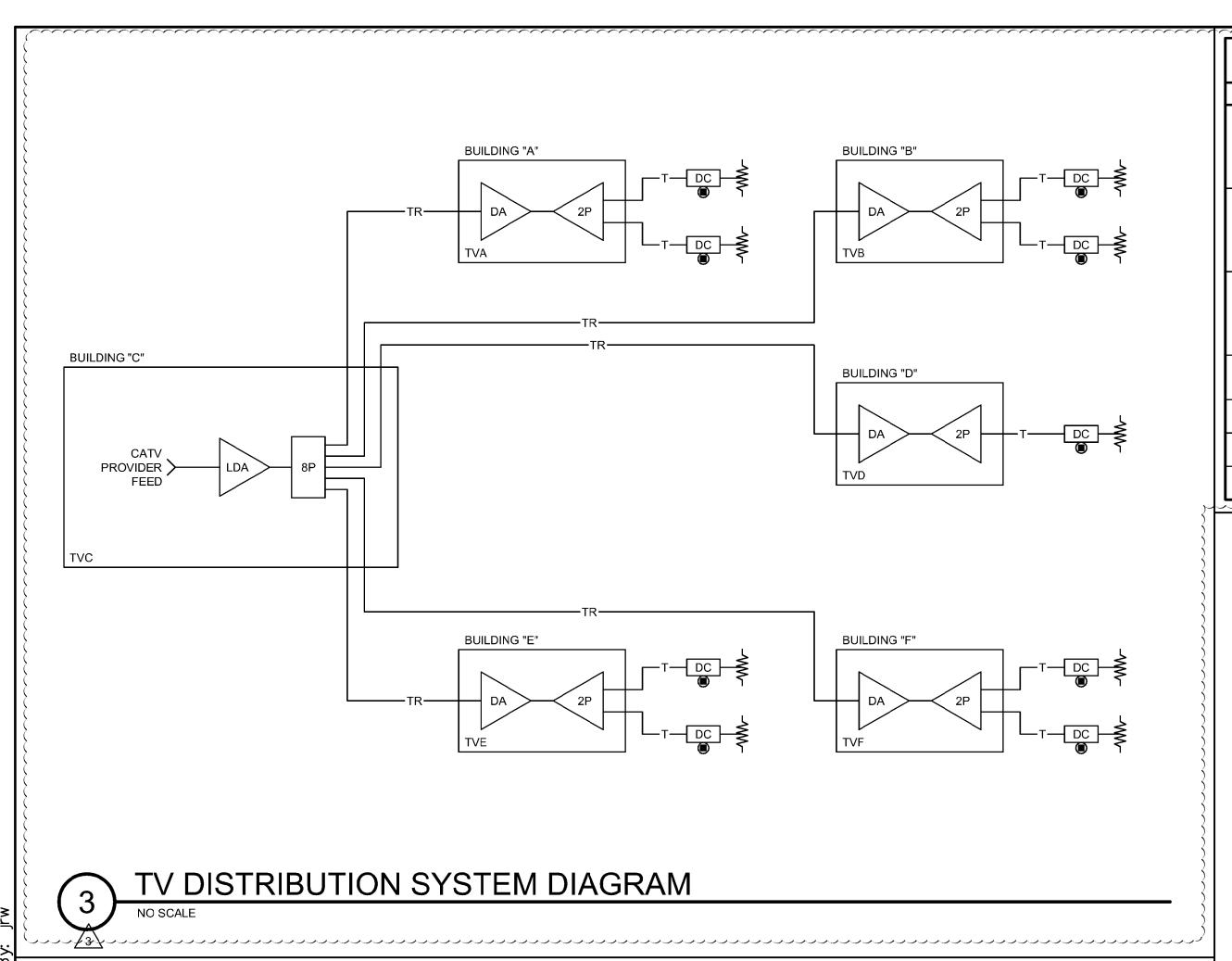
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FIXTURE SCHEDULE

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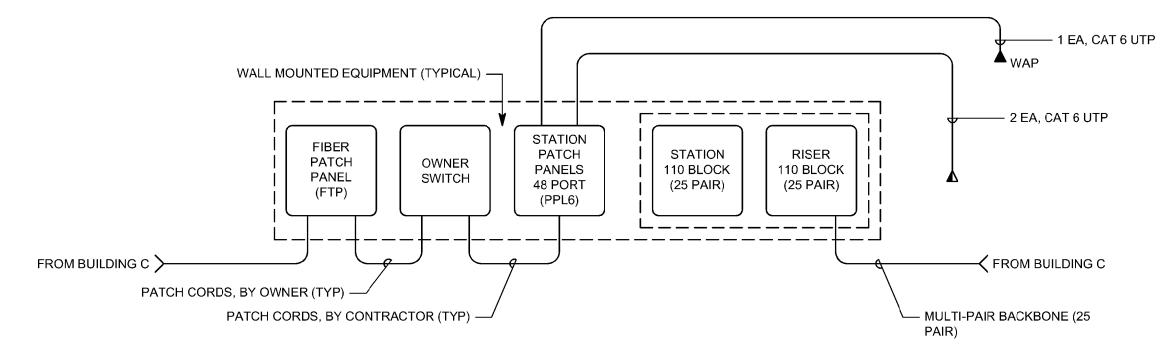




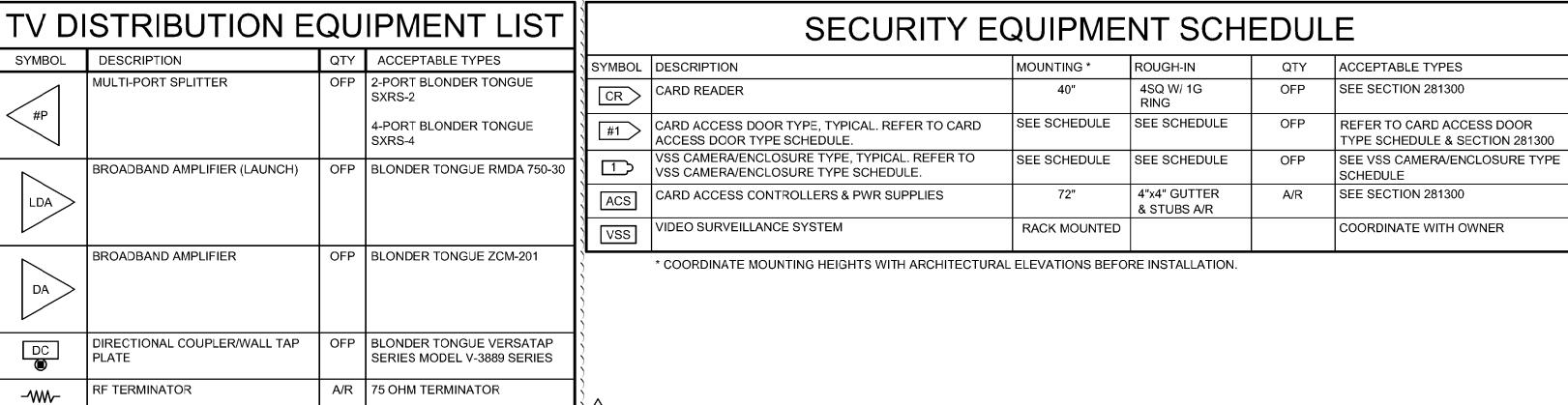


STRUCTURED CABLING SYSTEM NOTES

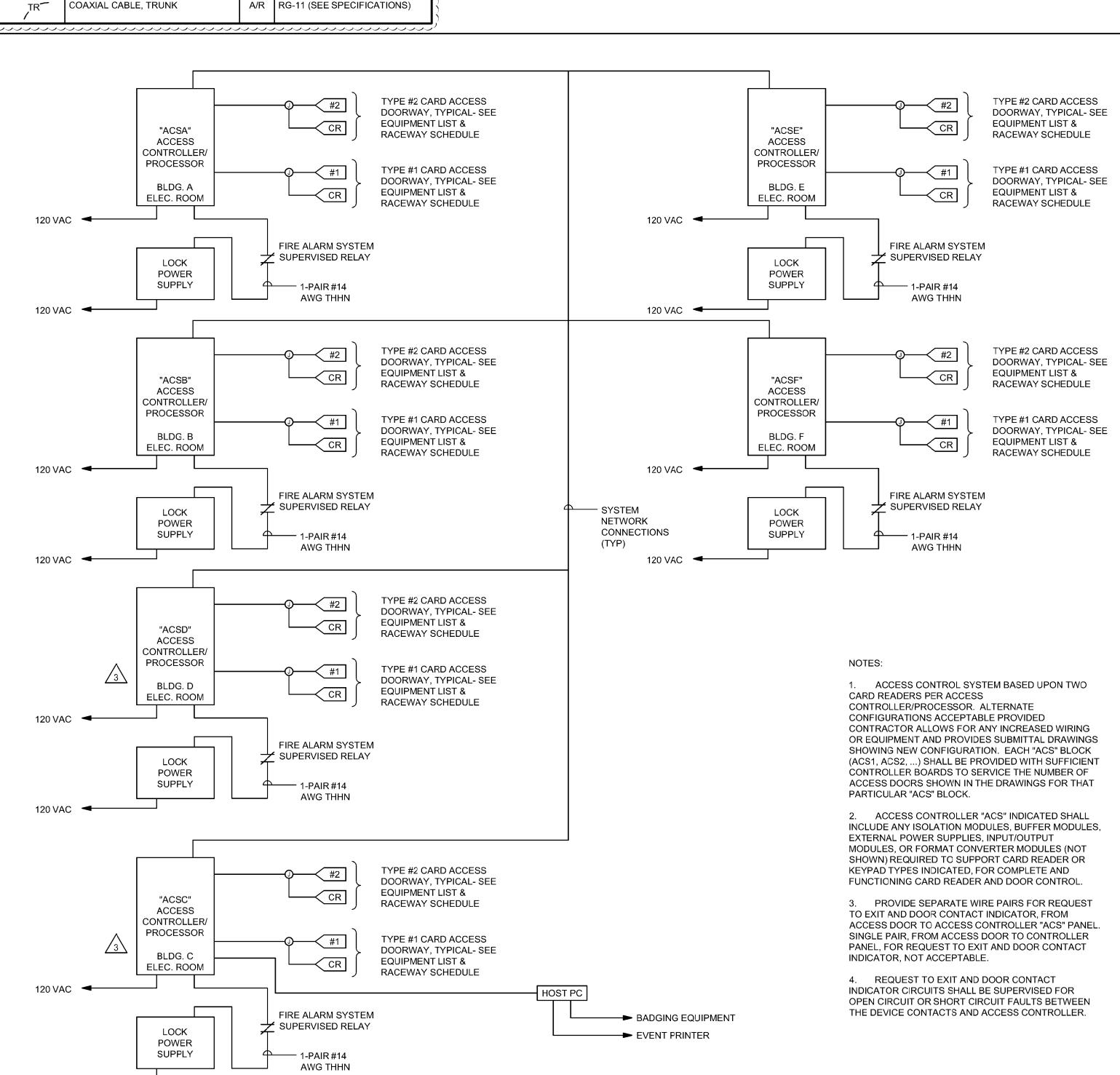
- 1. REFER TO EP SERIES SHEETS FOR VOICE/DATA OUTLET QUANTITIES AND LOCATIONS.
- PROVIDE PLENUM RATED CABLE IN ALL AIR PLENUMS. IF A PLENUM RATED CABLE IS NOT SPECIFIED, PROVIDE THE PLENUM RATED EQUIVALENT TO THE SPECIFIED CABLE.
- 3. ALL CABLE, REGARDLESS OF LENGTH, INSTALLED UNDER THIS CONTRACT ARE 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
- 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

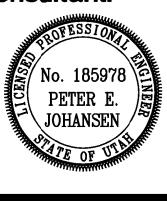
Donald L. Welch

Architect
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Tenant Finish for New Brighton Recovery Campus

4931, & 4953 South 900 East

4905, 4911, 4915, 4925,

Salt Lake County, Utah

date

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AUXILIARY RISER

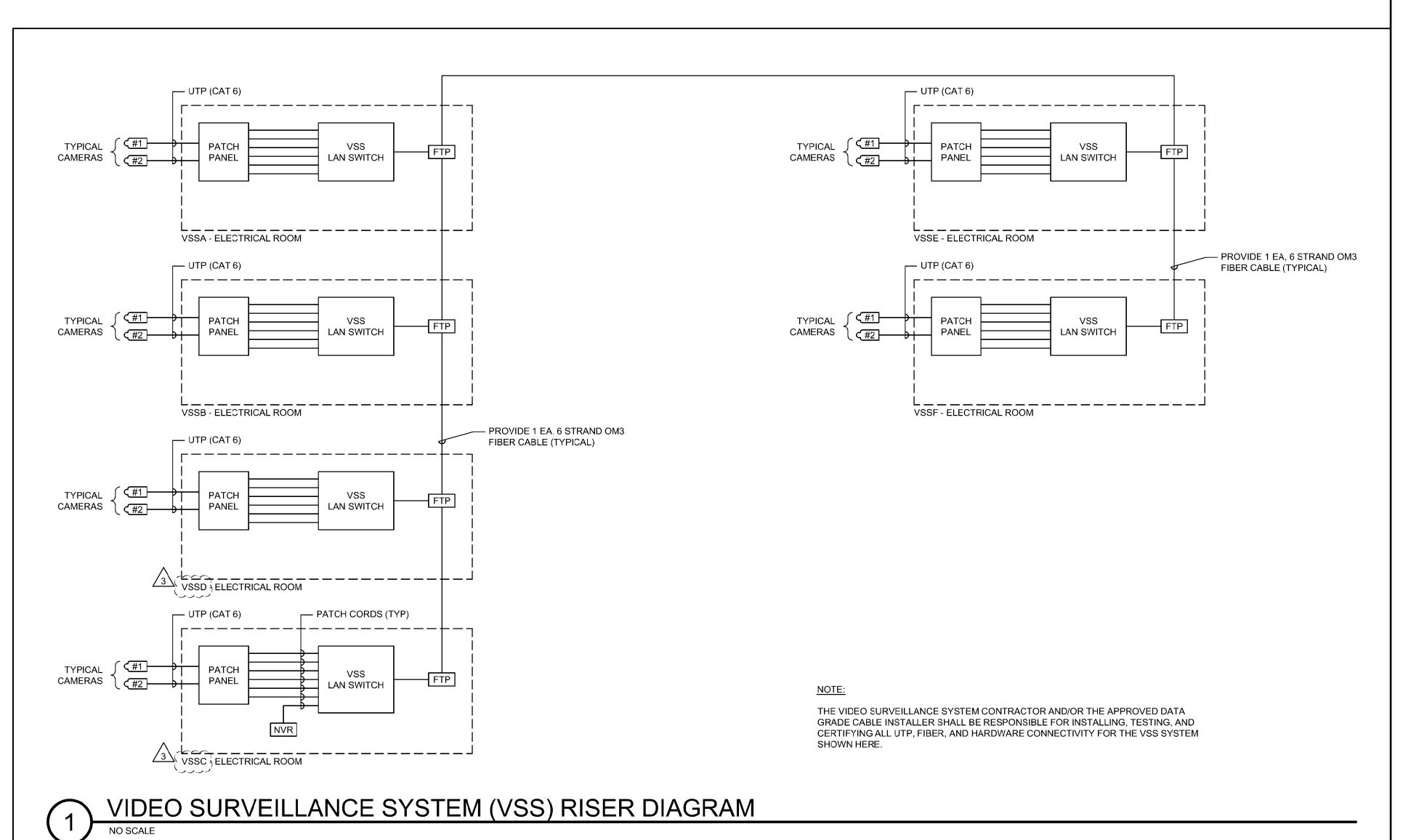
DIAGRAMS

sheet

EY6 01

	VSS CAMERA/ENCLOSURE TYPE SCHEDULE									
CAMERA TYPE NUMBER	SYMBOL	DESCRIPTION	INCLUDES							
TYPE 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.							
YPE 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.							
ГҮРЕ 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							
YPE 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.							

		VIDEO SURVEILLANCE E	QUIPMENT SCHEDULE
	SYMBOL	DESCRIPTION	ACCEPTABLE TYPES
	POE	POE NETWORK SWITCH	NETGEAR
\wedge	NVR	NETWORK VIDEO RECORDER	SEE SPECIFICATION 282300
<u>/</u> 3\	[#1)	VIDEO CAMERA	SEE VSS CAMERA SCHEDULE
	CABLE	4 PAIR, CAT 6, UTP PLENUM	SEE SPECIFICATIONS
	OFP = OBTAIN	FROM PLANS; A/R = AS REQUIRED	•



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Tenant Finish
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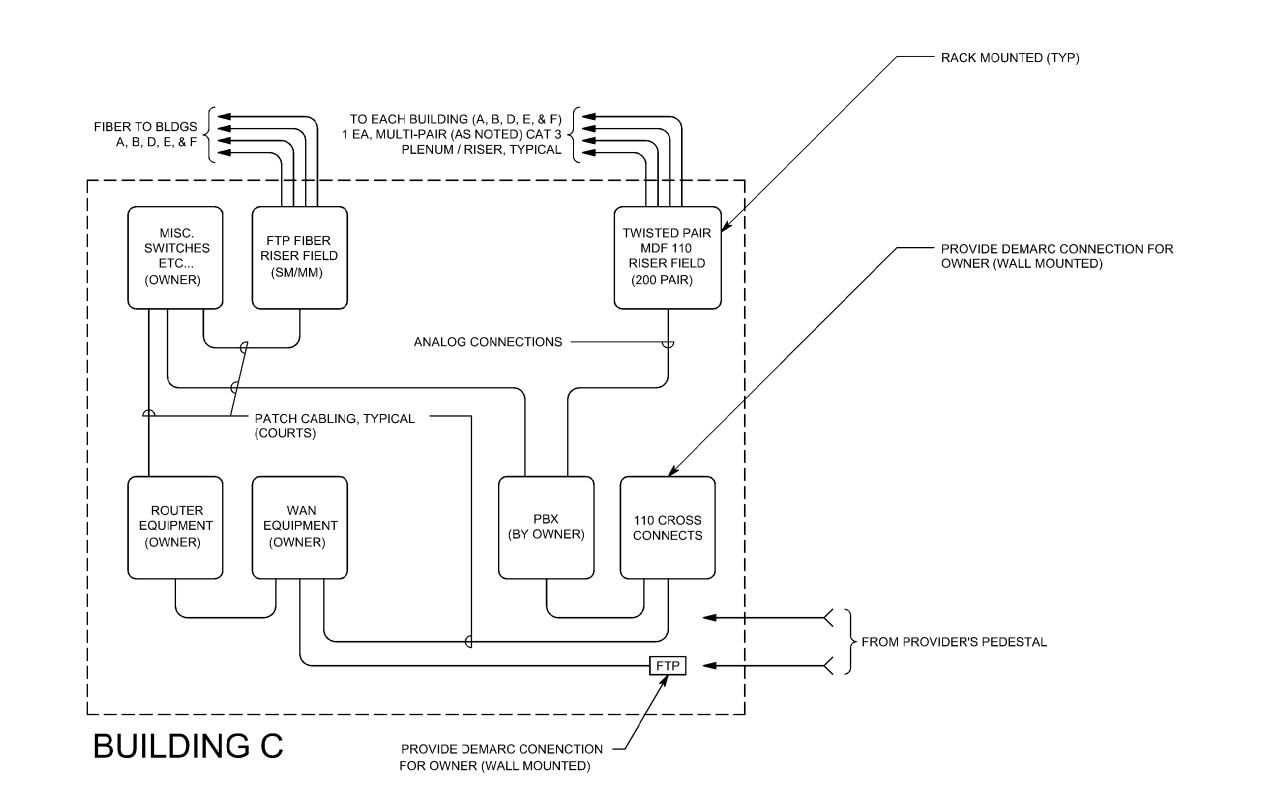
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AUXILIARY RISER DIAGRAMS

sheet

EY6 02



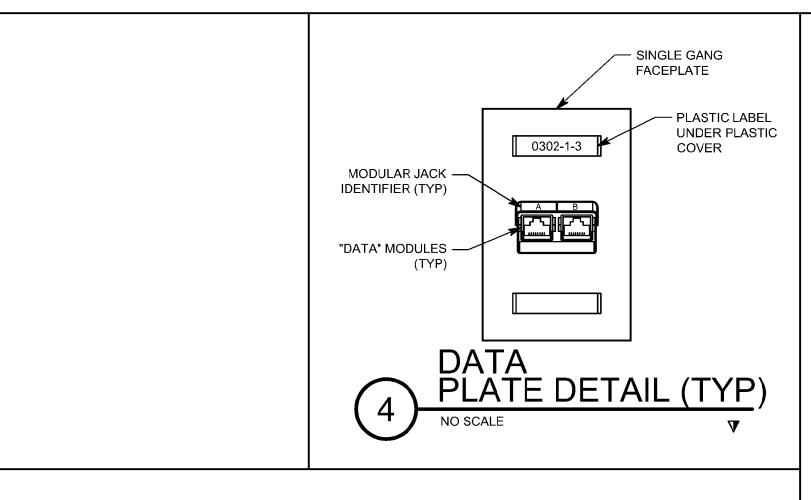
VOICE/DATA EQUIPMENT/CABLE LIST

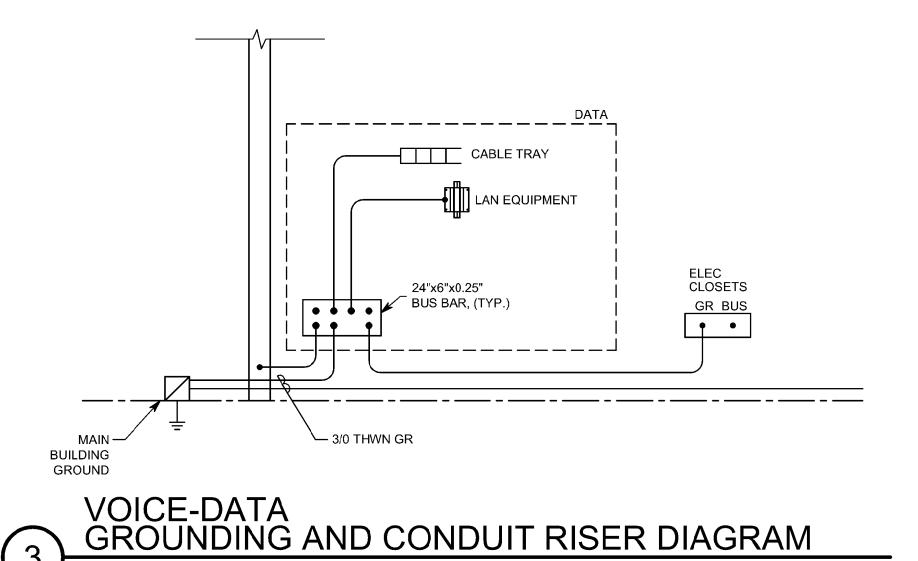
GENERAL NOTE:
THIS REPRESENTS ITEMS OF SIGNIFICANCE USED DURING THE DESIGN OF THE CABLING INSTALLATION, WHILE THE ITEMS INDICATED BELOW SHALL NOT BE CONSTRUED AS A "BILL OF MATERIALS". FURNISH ALL MISCELLANEOUS HARDWARE AND SUPPORTS WHICH MAY NOT BE LISTED HERE FOR A COMPLETE INSTALLATION. COMPARE CATALOG 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

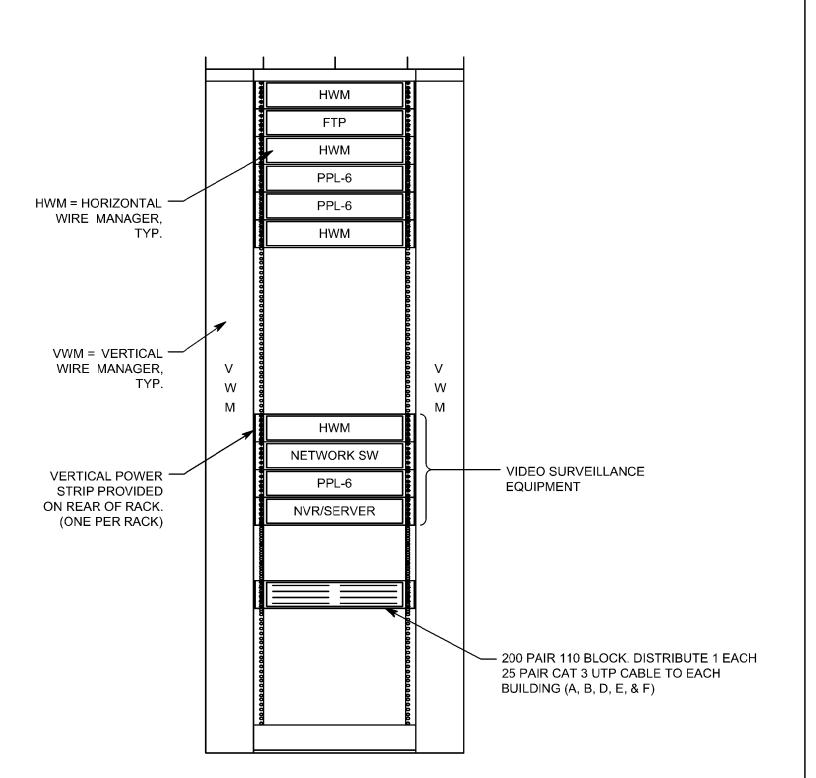
SYMBOL	ITEM DESCRIPTION	COMMENTS
	4 PAIR 24 GAUGE CAT 6 UTP, PLENUM CABLE	SEE SPECIFICATIONS
	6 STRAND FIBER PLENUM CABLE, MULTI-MODE (OM3)	SEE SPECIFICATIONS
PPL6-48	48-PORT PATCH PANEL WITH CAT 6 RJ45 JACKS; MOUNTED IN RACK.	PROVIDE FOR QUANTITY OF PORTS SHOWN ON DRAWINGS, PLUS 20%
FTP	SC TYPE CONNECTOR 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

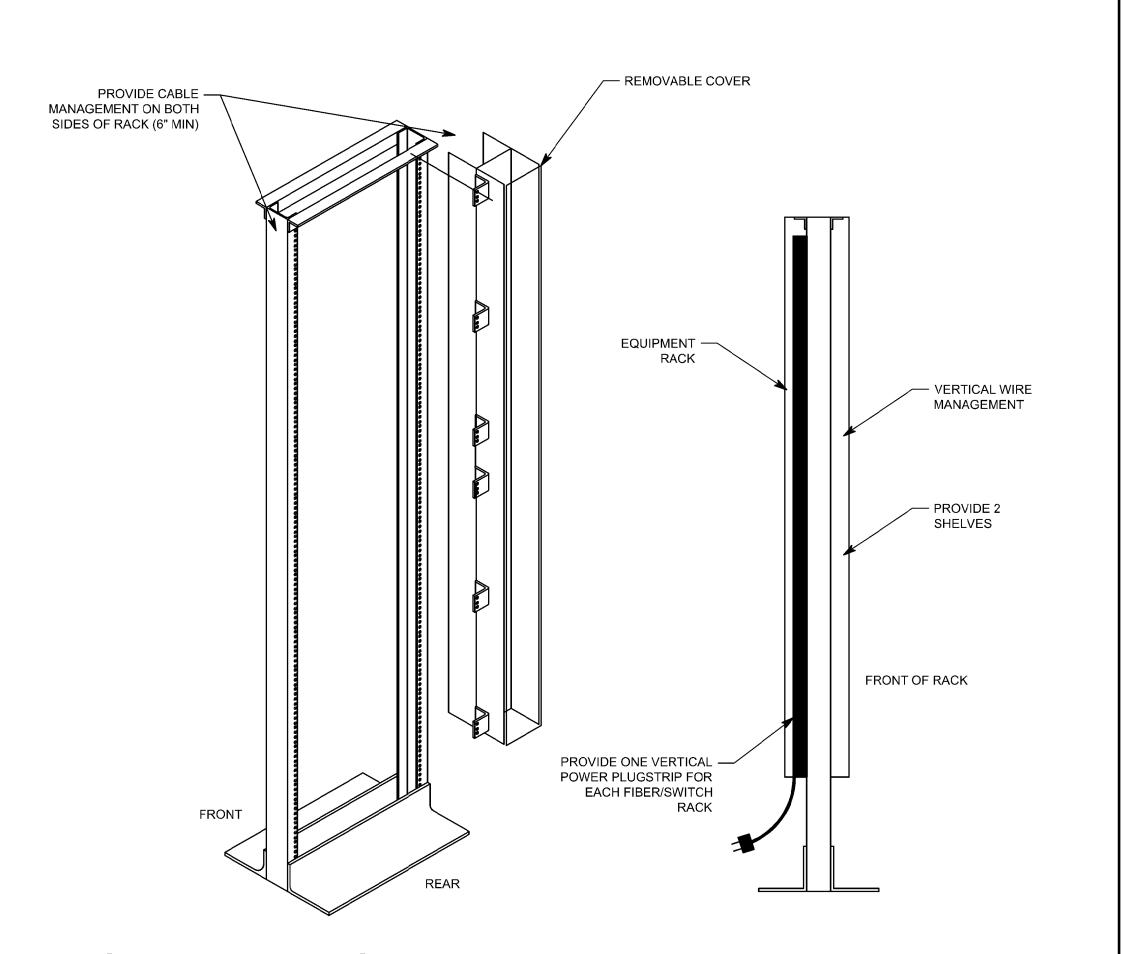






- RACK LAYOUTS ARE FOR COORDINATION PURPOSES. ALL FINAL RACK LAYOUTS ARE TO BE COORDINATED WITH OWNER PERSONNEL.
- 2. PROVIDE ALL WIRE MANAGEMENT ACCESSORIES SHOWN.

HORIZONTAL TERMINATION RACK ELEVATION - BUILDING C



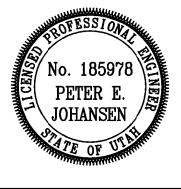
OPEN FRAME EQUIPMENT RACK/RACEWAY MOUNTING DETAILS

Donald L. Welch Architect

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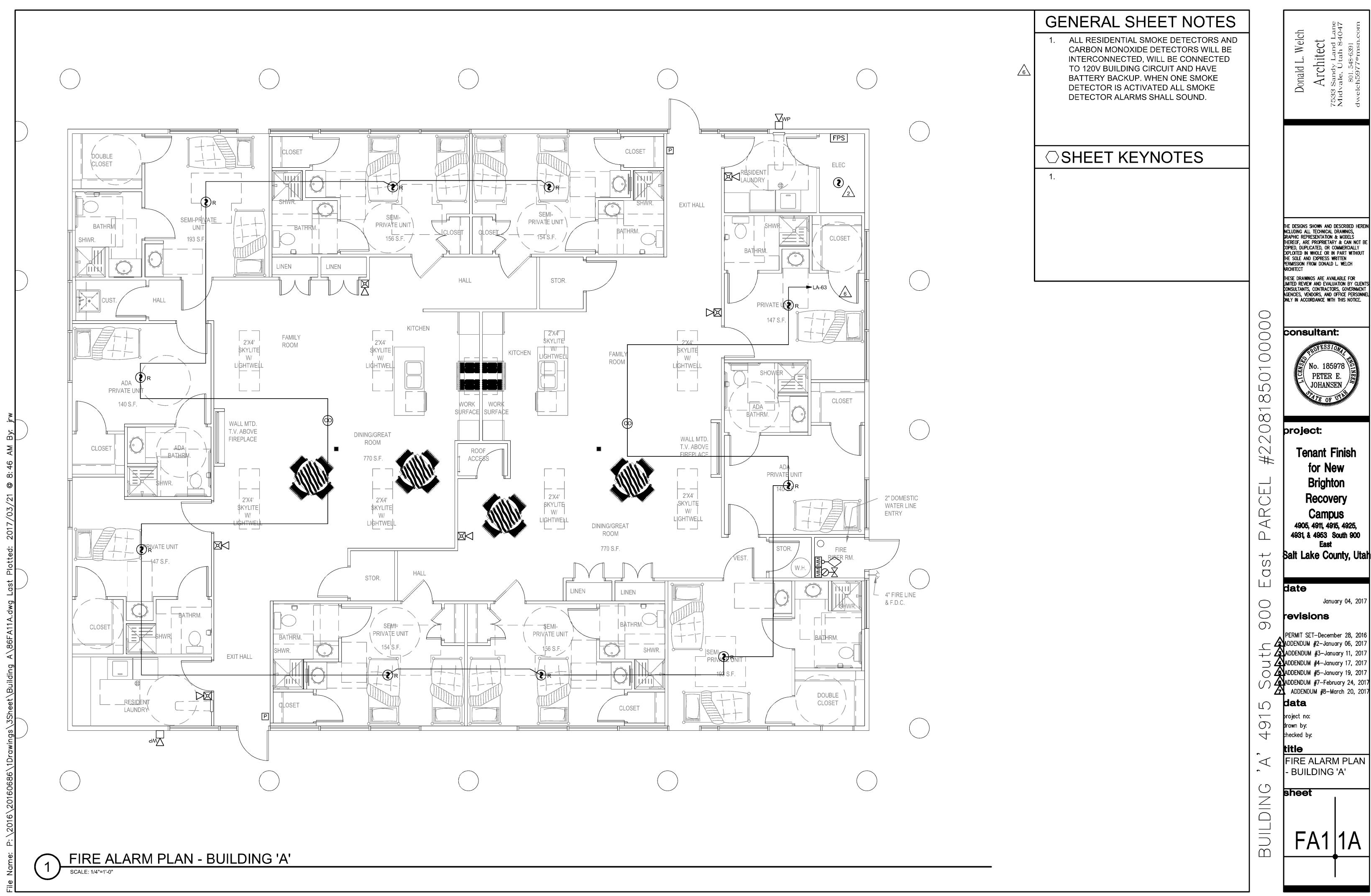
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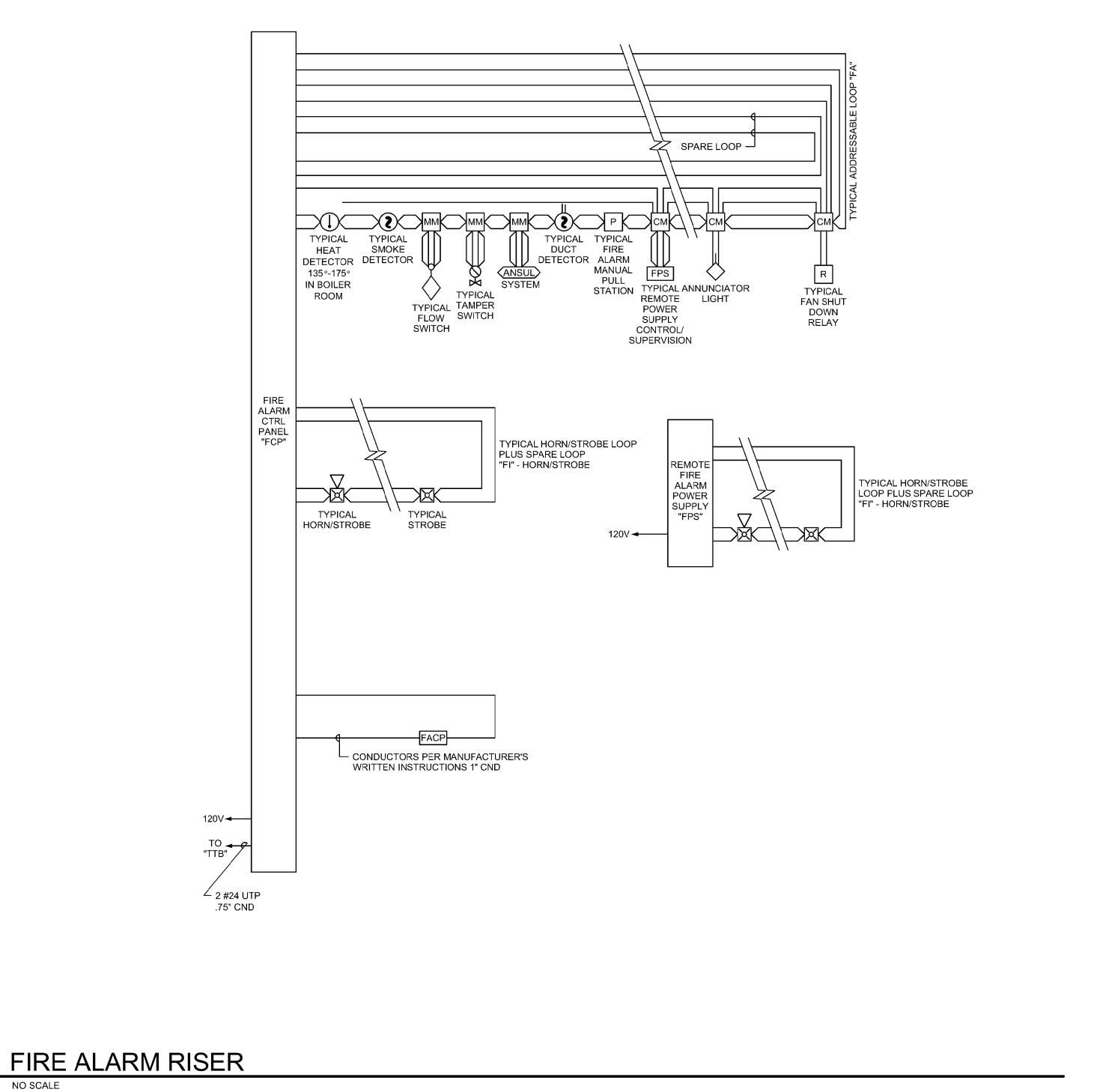
AUXILIARY RISER DIAGRAMS

DING sheet



	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 THWN	#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> </u>				Ŭ	•	•			
	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									•		
INITIATING DEVICES	7	RISER BLDG 'D' FLOW				•			•	•			
	8	RISER BLDG 'D' TAMPER									•		
	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

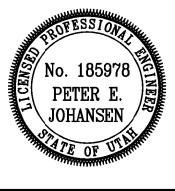
- 1. PLANS ARE BASED UPON 99 MONITOR AND CONTROL DEVICES PER ADDRESSABLE LOOP. OTHER CONFIGURATIONS ARE ACCEPTABLE SUBJECT TO CONTRACTOR ALLOWING FOR INCREASED WIRING REQUIREMENTS AND SUBMITTAL DRAWINGS SHOWING NEW WIRING CONFIGURATION. MAXIMUM INITIAL DEVICES PER LOOP SHALL NOT EXCEED 75% MAXIMUM ALLOWABLE.
- 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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FIRE ALARM RISER DIAGRAM

sheet