February 24, 2017 (Revised 04-23-2017)

Salt Lake County Planning & Development 2001 South State Street Salt Lake City, Utah 84190

RE: Brighton Recovery Campus
Plan Review Comment Responses
Building 'D'
4925 South 900 East
Salt Lake County, Utah

CODE REVIEW COMMENT RESPONSES:

A1. Sheet A0.1

- A. Please refer to Sheet A0.1, for updated building code summary, concerning Change of Occupancy. Please refer to Sheet A0.1, for Condition 1 requirement clarification. Please refer to sheet A0.1, for Level 2 alteration information.
- B. Please refer to Sheet A0.1 for removal of Occupancy R-4 from information.
- C. Please refer to Sheet A0.1, for note showing the Sprinkler system to be NFPA 13. It is also called out clearly on Sheet P02.
- D. D. Plumbing Fixture Analysis:

Water Closets: 1 per 125 (Occupancy A-3); 1 per 75 (Occupancy A-2); Lavatories: 1 per 200 for both occupancies;

Dinking fountains: 1 per 500; 1 Service Sink:

A2. Sheet A1.1

- A. Please refer to Sheet A1.1 for all property line call-outs.
- B. Please refer to Sheet A1.1 for location of imaginary lines between the existing buildings. The imaginary lines are the property lines around each building. Dimensions are shown on this sheet, showing the approximate distance between the existing buildings, and the approximate distance between the roof overhangs. Parapets are not shown, or required, since these are existing roof conditions.
- C., D., E. & F.. Please refer to sheet A1.1, and item B above for clarification of distance between existing buildings. Please refer to Sheet A1.1, and item B above for clarification of distance between existing roof eaves, and fire rating conditions for all connected structures. Please refer to Sheet A1.1, clouded notes, for new one hour fire rated wall assembly at existing walls located adjacent to other existing buildings, existing building roof overhangs, and existing breezeway roof structures. And Refer to sheet A8.1 for fire rated wall detail at roof, between buildings. Please refer to Sheet A0.1, Title Sheet, and Sheet A1.1, Site Plan, for location of existing breezeways, and clarification notes for fire rated walls, and fire sprinkling systems at

existing roof overhangs and breezeway structures. Also refer to Sheet A8.1 for fire rated wall detail at roof, between buildings.

- G. I. Please refer to sheet A1.1, Site Plan, for new note stating verification of existing sidewalk, and modifications if required.
 - II. Please refer to Sheet A1.1, Site Plan, showing that the parking spaces and access aisles are designed so that cars and vans, when parked, will not obstruct the required clear width of the adjacent accessible routes.
 - III. There are no locations along the accessible routes where edge protection may be required.
- H. Please refer to Sheet A1.1 for new accessible route from building complex, to existing sidewalk, adjacent to 900 east street. This existing sidewalk is the route taken to public transportation stops.
- I. I. Please refer to Sheet A1.1 for calculations concerning percentage of number of ADA accessible stalls within parking lot.
 - a. Please refer to sheet A1.1 for ADA parking stalls below existing parking canopy roof.
 - II. Please refer to Sheet A1.1 for identification of the Van Accessible ADA parking stalls.
 - a. The van parking stalls and the vehicular route to and from the stalls have a clear vertical clearance of 8'-2". Stalls are parked outside, and not within a parking garage.
 - III. Please refer to Sheet A1.1 for dimensions concerning the Van Accessible stalls.
 - IV. Please refer to Sheet A1.1 for access aisle layouts for adjacent accessible parking stalls. Dimensions, and markings meet section 502.4 and ICC a117.1 requirements. Also the access aisles do not overlap the vehicular way, and are located on an accessible route.
 - V. Please refer to Sheet A1.1, and Sheet C100 for relocation of grease interceptor and sampling manhole away from accessible parking stalls.
 - VI. Please refer to Sheet A1.1, for new note concerning required slope at accessible parking stalls and aisles.
 - VII. Please refer to Sheet A1.1, for ADA sign detail. "van accessible" note added to detail.

A3. Sheet A2.4

- A. Please Refer to Sheet A2.4A and Sheet A8.1, for notes and detail concerning half wall and bench.
- B. Please refer to Sheet A2.4A and Detail A/A4.6 for counter/bar detail.
- C. I. Please refer to Sheet A2.4A for location of Tactile Exit signs at all exit doors, Also, please refer to Electrical Sheets for Exit signage.
 - II. Please refer to Sheet A2.4A for location of Tactile Exit signs at Exit doors.
 - III. Please refer to sheet A7.1C for ADA required signage at all restroom
 - IV. Please refer to Sheet A2.4A for location of Occupancy load signage at required rooms, and for building.
- D. Platform has been eliminated for this building.

E. I. Please refer to sheet A2.4 and A2.4A for new corridor showing extra exit from building, meeting egress requirements.

A4. Sheet A4.2A (should be A2.4A)

- A. Please refer to Sheet A2.4A for accessible seating areas for 5% of the dining surfaces for for seating and standing spaces..
- B. Please refer to sheet A2.4A and A8.2 for dimensions of the accessible toilet compartments and toilet compartment swinging doors.
- C. Please refer to sheet A2.4A and A4.3 for clear floor space in front of lavatories and urinals.
- D. Please refer to sheet A2.4A and A4.3, for Reception counter clearance information.
- E. Please refer to sheet A2.4A for clearances around workout equipment.
- F. Please refer to Locker room notes on sheet A2.4A for employee locker room turning space, 5% of lockers are accessible in each locker room, clear floor space in front of accessible lockers, accessible reach ranges of lockers (sheet A8.2), operable parts for lockers are accessible. Also for Bench requirement notes for clear floor space for parallel approach, dimensions, back support, and structural strength of benches.
- G. Please refer to sheet A2.4A for for adequate maneuvering clearance for doors D105 and D117.
- H. Please refer to sheet A2.4, A2.4A, and A4.3 for family/assisted-use restroom.
- I. Please refer to Sheet A2.4A for clear floor spaces for forward approach for each type of gaming table provided.
- A5. Sheet A4.3: Please refer to Sheet A4.3, for Revised detail A, and deleted details B and C.
- A6. Sheet A4.6: Please refer to sheet A4.6 for deleted details not associated with this project.
- A7. Sheet A4.7: Please refer to sheet A4.7 for deleted toilet room details. Please refer to sheet A8.2 for all details associated with dimensions for toilet tissue dispenser, grab bar requirements, toilet flush controls, water closet compartment requirements, and drinking fountain information.
- A8. Please refer to Sheet A8.1 for interior wall construction and connections to floor and ceiling.
- A9. Please refer to sheet A8.1 for R-value of attic insulation.
- A10. Sheet A3.1: The address for each building is already existing on the exterior face of each building.

Mechanical Review Comments:

Please refer to attached Mechanical drawings, for information concerning Mechanical review comments.

Plumbing Review Comments:

Please refer to attached Plumbing drawings, for information concerning Plumbing review comments.

Electrical Review Comments:

Please refer to attached Electrical drawings, for information concerning Electrical review comments.

Energy Review Comments:

- N1. Please refer to RESCheck, attached to the end of the Mechanical/Plumbing pdf files, for extent of thermal envelope and corresponding R-values, and the energy compliance.
- N2. Please refer to Electrical drawings for this comment.
- N3. Please refer to Mechanical drawings for this comment.
- N4. Please refer to Plumbing drawings for this comment.
- N5, N6, N7, N8. Please refer to Electrical drawings for these comments.

Structural Comments:

General:

- S1. Sheets D2.3 and D3.2:
 - A. Please refer to attached written verification letter, submitted by a Utah licensed structural engineer (attached at the end of this letter), verifying the proposed demolition is not affecting the structural integrity of the building.
 - B. Please refer to attached written verification letter, submitted by a Utah licensed structural engineer (attached at the end of this letter), showing structural support information for new openings in exterior walls.
- S2. Please refer to attached written verification letter, and details, submitted by a Utah licensed structural engineer (attached at the end of this letter), verifying information for the mounting of the new make-up air unit on the roof.
- S3. Please refer to Mechanical drawings, and the attached structural information for hood support information.

Donald L. Welch Architect





Sandy Layton St. George

Project Number: L0133-001-171

April 21, 2017

Brighton Land Holdings 1275 East Fort Union Blvd. Ste 210 Cottonwood Heights, UT 84047

ATTENTION: Thomas Godfrey

REFERENCE:

Brighton Recovery Campus, Building D (4925 S 900 E, SLC, UT)

Interior Demolition, New Wall Openings & Roof Top Unit

Mr. Godfrey:

Per your request, we have reviewed the architectural drawings for the above-referenced project. We also visited the above-referenced site on December 20, 2016. Please be advised as follows:

- 1) From our observation, the roof structure appeared to be manufactured wood roof trusses, bearing at the exterior perimeter walls and/or exterior overhang beams. In addition, there is an interior beam running the length of the building, supporting the roof trusses at or near their mid-span. See the enclosed "Demolition Plan," for approximate location of existing beams and posts. Interior partitions are non-bearing non-shear walls and can, therefore, be removed without adversely affecting the structure.
- 2) Three new openings may be constructed at exterior walls, as shown in the enclosed "Demolition Plan." The new headers, trimmers, and king studs are also specified on sheet 2. Supporting calculations are provided on sheets 5 and 6, enclosed. The contractor is responsible for shoring the existing roof framing during construction.
- 3) A new Make Up Air Unit and access platform may be placed on the existing roof, where indicated in the enclosed "Demolition Plan." See enclosed sheets 3 and 4 for details and sheets 7 and 8 for supporting calculations.

We hope this meets your needs. If you have any further questions regarding this matter, please call this office at your convenience.

Very truly yours, VECTOR STRUCTURAL ENGINEERS



David H. Fotheringham, S.E. Principal

Enclosures

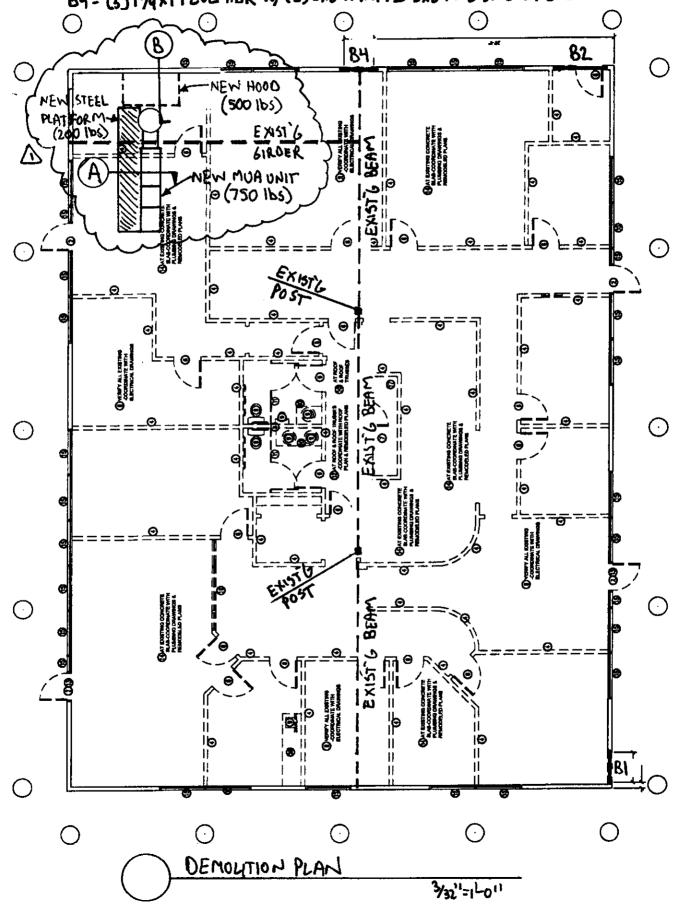
BRIGHTON RECOVERY BLO'S'D'

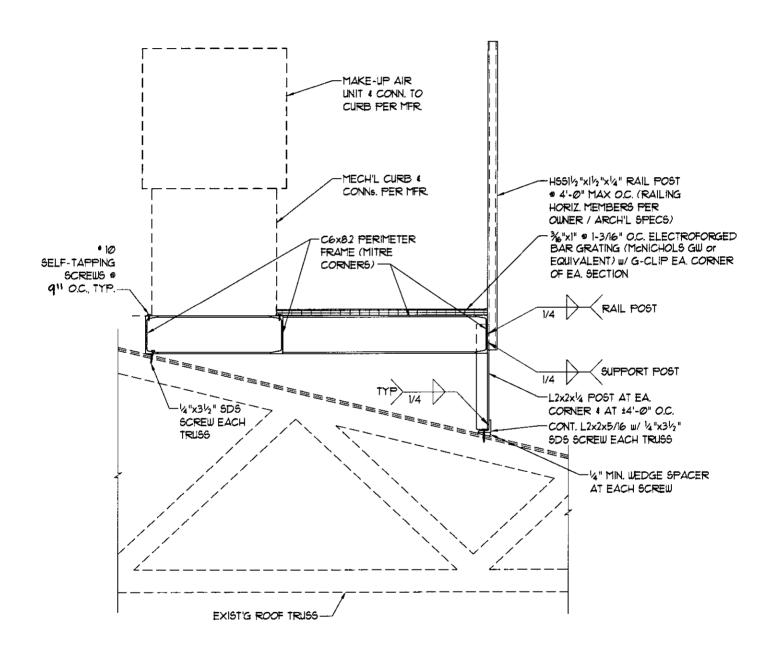
L0133-001-171 SHEET 2

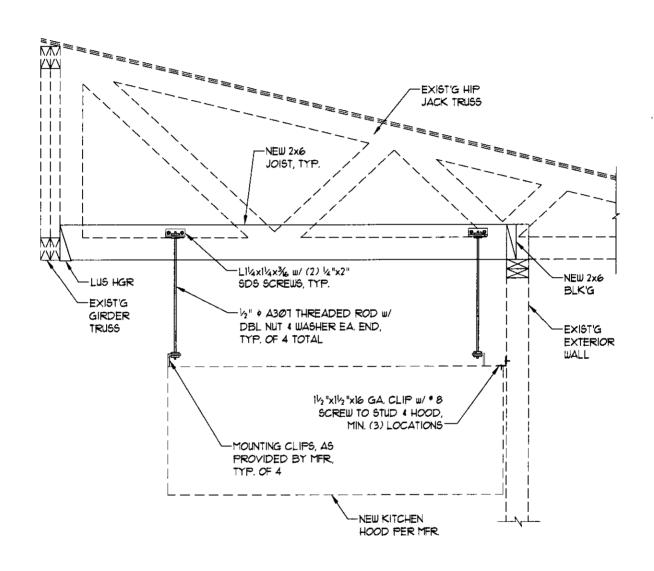
REVA 4-21-17

NEW HEADERS:

81=82 = (3)2x6 HOR W/ 2x6 TRIMM L 2x6 KING STUD EA. END BY = (3)174x14 LUL HOR W/ (3)2x6 TRIMM L 2x6 KING STUD EA. END









JOB NO.: L0133-001-171 DESIGNED: DHF DATE: 3/17/2017

CHECKED: DHF

SHEET S

PROJECT: BRIGHTON RECOVERY CAMPUS

SUBJECT: GRAVITY LOADS

			Increase	
			due to	Original
ROOF			pitch	loading
ROOF PITCH/12	:	4		
ASPHALT SHINGLES		4.22	1.05	4.00
1/2" PLYWOOD		1.58	1.05	1.50
FRAMING		3.00		
INSULATION		2.00		
1/2" GYPSUM CLG.	•	2.20		
M, E & MISC		2.00		
	DL	15.00		
	LL	20.00		
	SNOW	30.00		
SNOW INCLUDED	IN LATERAL	0.0		
2ND FLOOR (WHERE OCCUR	(S)			
FLOOR COVERING		1.00		
3/4" T&G PLYWOOD		2.30		
MFG TRUSSES / FRAMING		2.00		
INSULATION		1.00		
1/2" GYPSUM CEILING		2.20		
PARTITION		2.00		
M, E & MISC.		1.50		
OTHER		0.00		
	DL	12.00		
	LL	40.00		
EXTERIOR WALLS				
STUCCO/SIDING		3.50		
2x FRAMING W/3 PLATES		1.30		
INSULATION		1.00		
1/2" GYPSUM		2.20		
1/2" PLYWOOD		1.50		
OTHER		0.50		
	DL	10.00		
OVERFILL				
ASPHALT SHINGLES		4.00		
1/2" PLYWOOD		1.50		
RAFTERS & MISC		3.50		
OTHER		0.00		
	DL	9.00		
	LL.	20.00		

TYPICAL ROOF OVERBUILD MAX SPAN TABLE

Grade	Size	Spacing (ft)	L _{max} (ft)
DFL#2	2X4	2	5.80
DFL#2	2X6	2	8.80
DFL#2	2X8	2	10.80
DFL#2	2X10	2	13.20

C _r	C _D	C _{f,V}	M _{allow} (ft-lb)	V _{allow} (lb)	Ctri'g factor
1.15	1.00	1.50	38 5	382	Moment
1.15	1.00	1.40	888	601	Moment
1.15	1.00	1.20	1322	792	Moment
1.15	1.00	1.10	1973	1011	Moment

							4														_₹	Abbrev	GRADES			18	, (§	, <u>ş</u>		<u>اَ</u>
						Ц	^	-	JOB N	0:: 2::0	JOB NO.: L0133-001-171	-121		ä	SIGN	DESIGNED: DHF	<u>u</u>				Ц		П							
	į	J	1	_					DATE:		3/17/2017	_		ប	줐	CHECKED: DHF	¥				G	DFL#1 D	DFURT			1,000	780	1,700,000	8	32
		O	_	Ш	m ax	0 ~															Ď	DFL#2	DFL#2			000	180	1,600,000	9	32
E.																					5	DF1 (5X) D	DFLB1 SXS & LARGER	LARGER		1,350	170	1,600 000	8	8
																					7	24F-V4 24	24F-V4			2,400	240	1,800,000	8	ន
PROJECT: BRIGHTON RECOVERY CAMPUS	2 2	Š	KECO	/ERY C	AMPU								SUB	SUBJECT: BEAMS	图图	<u>နှ</u>	ļ				7	24F-VB 24	24F-V8			2,400	240	1,600,000	8	\$
																					Ξ	LVI. (1.9) L.	LVL (1.9X106E)	35)		2,600	285	1,900,000	8	9
RESIGNITATE							_														2	LVL (2.0) LV	LVL (2.0X106E)	E)		2 200	285	2,000,000	8	9
PESIGN PARS	Ö	Š	Types:	Load Types: Snow-1, Live	٤	Deed															형		LSL (1.3X106E)	9		1,700	400	1,300,000	8	2
			80	ጸ	2	9									중	TERIA	CRITERIA (LI) Di	ᇻ	TO T		PBL		PSL (2.0X105E)	(a)		2,900	280	2,000,000	8	ş
			F 00		\$	*										ABLANG	Mec) 240	380	0		튭	STL38	GRADE 36 STEEL	TEEL		21,600	14,400	29,000,000	8	魯
			78			2	_										B 240	08*	0	Γ		8T.48 G	GRADE 46 STEEL	TEEL		27,600	27,600 18,400	29,000,000	8	\$
	ğ	.2.Sps	Add .2"S _{Cs} to dead load?	ğ	¥	0.2267 =.2*Sos	, 2, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5	2									009	9	800	٥	RS.	STLS0 G	GRADE 50 STEEL	ITEEL.		30,000	20,000	29,000,000	8	8
hote; a must be less than or equal to L/2	288	5		12			ŀ	ł													1									ł
Roof Roof	Roof	F)00.	Wall G	5 e g	Add"	ie Z	React (Point Live Dist Load						"ВМЛ	D CRIT												D₁. (M) (SEE	O _{LL}	1.5DL	
	£	3				From			a	LIES	Grade	Skze		IDR"	ပ ERIA	ئ د.	<u>ځ</u>	<u>2</u>	8 (B)	₽ (3) ¥ (3) ¥		įĝ	ļ g	1 @	ਤ €	£ (£	Q Q Q Q	0 0 0 0 0 0 0	GLB Camb Check	H F
EXISTG 27	37.5	\int								Н			F.	H		1.00	1.00	1.00	24501 245	24501 16	166381				Ī	1.350		005 0	1	
+				1				-	4					Н		1,00,1	1.00	00.		_	-	-							T	
1			7	1					\dashv	믝	(3) DFL#2	2 28		Ξ		1.00.1	1.00.1	1.40	730	730	638	2382	539	2970	0.014	0.175	0.005	0.117	Ĭ	0 27 M
62 5.5	•		7	1	1			-	-	<u>믝</u>	(3) DFL#2			Ξ					1147 1	1147	1578	2382	958	2970	0.088	0.275	0.033	0.183	٦	0.68 M
	ľ			1				-		+						1.00	1.00	1.00		H									T	
4	80		N			L X	4	2 151EE		-	0242 72 11 14 64 64 2		7777													I			Ì	



JOB NO.	<u> 10133-001-1</u>	71 DATE REV 14-21-17
	BRIGHTON	 -
SUBJECT	BUILDING	10'
SHEET	7 DF	
DESIGNED	DHE	CHECKED

דואט אטא	Fp = 0.4	90 Sos Wo	1 3 3	0,4(2,5)1.0	Way
311 1	$\sqrt{\epsilon} \cdot F_p = 1.2$	Wp		0,4(2.5)1.0	-(1)
<u>↓</u> ↓ 20 ¹⁴ ĵ	W=750 1bs		o ths		
	T = 31:n (900)	200			
	4 = 31 in (900	165) + 10;n	(750 164)	: 1770 lbs	
(URB CONNECTION): t = 1170 lbs:75/4/=	98 165 per 911	SELECT	\$ 10 SEE	de 9"o.⟨.	
• FRAME (ONHECTION): T = 1170 165 (201)	(o. \ - 490 i\.		nlow = 109	(bs)	
t = 490 lbs 2/41 =	108 lbs per 24"	SELECT	- γη" 5 0 5 s	CREW @ 24"0	! (•
PLATFORM RAIL: (WORST (ASE)				
58AN=14" LOAD=1770 125					
M= 1770 lbs (4') = 1- 50eq'd = 21, 240 lb; 0.6 (36,000 p	A		C6×8.2	(5=4,38 ti	1
γ σ σ ς σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ	91)				



308 NO.	L0133-001	-171 DATE REV 14-11-17
PROJECT	BRIGHTON	RECOVERY
SUBJECT	BUILDING	' 0'
5HEET	b DF	
DESIGNED	OHF	CHECKED

		TRUSSES		
TPICAL	TPU55:	.0	 	
		w w		ORIGINAL LOADING:
	5			W = 2' (15+30)psf = 90 pt€
	1 13-0		1	
		37'-0" SPAN	dender Transport of the Control of	M = \$ 90 pr (37) = 15401 f1.16
	<u> </u>		Rz	AOO'L LOAUNG.
				$P = 200 \text{ lbs} \left(\frac{2'}{14'}\right) + 750 \text{ lbs} \left(\frac{2'}{9'}\right) = 195 \text{ lb}$
				R, = 195 165 (241/371) = 126 165
				71, 19-193 (41/37/) - 126-105
				M = 13'(126 165) = 1644 f7:16
				1644
				INCREASE = 18401 = 0.10
				10% INCREASE OK
				1, 10 to the person of
	1 1			
	·			
			5.5	
		4-4		
				
				tamana 1 ta 1

PROJECT:

FIRE PROTECTION SYSTEMS

-FIRE ALARM SYSTEM:

-FIRE EXTINGUISHING SYSTEM: (TES)/ NO

UP TO 266 STAFF MEMBERS AND CAMPUS

Tenant Finish for New Brighton Recovery Campus

4905 South, 4911 South, 4915 South, 4925 South, 4931 South, 4953 South 900 East, Salt Lake County, Utah BUILDING CODE SUMMARY APPLICABLE CODES -BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE The supporting construction shall be protected to afford the required fire-resistance rating of the wall 2015 INTERNATIONAL EXISTING BUILDING CODE FIRE RESISTANT CONSTRUCTION / FIREPROOFING SCHEDULE supported, except for walls separating tenant spaces in covered and open mall buildings, walls -MECHANICAL CODE: 2015 IMC -PLUMBING CODE: 2015 IPC separating dwelling units, walls separating sleeping units and corridor walls, in buildings of Type IIB, IIIB, REQ'D RATING / HR -ELECTRICAL CODE: 2015 NATIONAL ELECTRICAL CODE and VB construction. -EXTERIOR WALLS: LOAD BEARING | 0 HRS. -FIRE CODE: 2015 IFC -LIFE SAFETY CODE: 2015 NFPA 101 Exceptions: -ACCESSIBILITY CODE: <u>IBC & NE ACC. GUIDE</u>LINES O HR. (W/ APPROVED FIRE \$PRINKLING SYSTEM) 6. Fireblocking or draftstopping is not required at the partition line in buildings, equipped with an automatic sprinkler system installed throughout in accordance with Section 9033.3.1.1 or 903.3.1.2, EXISTING BUILDING 'D' (CAMPUS RESIDENCE ACTIVITY CENTER) provided that automatic sprinklers are installed in combustible floor/ceiling and roof/ceiling spaces. -INTERIOR WALL: LOAD BEARING 0 HR. **BUILDING PLANNING** NON-LOAD BEARING O HR. OCCUPANCY: ASSEMBLY OCCUPANCY GROUP 'A-3', & 'A-2' CAFETERIA MIXED (NON SEPARATED) OCCUPANCY YES /NO REQUIRED FIRE SEPARATION: O HR. (FIRE SPRINKLER SYSTEM) TYPE OF CONSTRUCTION CONSTRUCTION TYPE: VB NS 1 LEVEL; 6,000 SQ. FT. ALLOWED-OCCUPANCY A-2 & A-3 RISK CATEGORY: CHANGE OF OCCUPANCY WORK AREA METHOD, LEVEL 2 WORK BEING DONE: **GENERAL BUILDING LIMITATIONS** -HEIGHT OF BUILDING: <u>25 FEET MAXIMUM</u> <u>NUMBER OF STORIES: 1 STORY</u> -TOTAL AREA OF BUILDING: 4,800 SQ. FT. - OCCUPANCY 'A-3' & 'A-2' -OCCUPANCY PER PERSON: 4,800 SQ. FT.: = X (FEET) WEIGHT ROOM: 490 S.F. • 50 S.F./PERSON = 10 OCCUPANTS YOGA ROOM: 364 S.F. @ 50 S.F./PERSON = 7 OCCUPANTS 10≤ X <30 COMMERCIAL KITCHEN: 220 S.F. @ 200 S.F. /PERSON: 1 OCCUPANT REMAINING ASSEMBLY AREAS: 3,726 S.F. • 15 S.F./PERSON: 248 OCCUPANTS

BUILDING 'D' 4925 South 900 East PARCEL #22081850110000

MATERIALS / LEGEND	INTENT OF PLANS:
CONCRETE MASONRY UNIT BRICK VENEER STONE VENEER CONCRETE GYPSUM BOARD OR GROUT MORTAR BATT INSULATION RIGID INSULATION PLYWOOD ROUGH WOOD—CONTINUOUS ROUGH WOOD—BLOCKING WOOD TRIM STEEL GRAVEL EARTH TILE	IT IS THE INTENT OF THESE DRAWINGS, SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS TO DESCRIBE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO COMPLETE THE WORK CALLED FOR, INDICATED OR REASONABLY IMPLIED BY THEM, INCLUDING PARTITIONING, MECHANICAL AND ELECTRICAL WORK, AIR CONDITIONING AND ALL OTHER ITEMS DESCRIBED. FAILURE TO SHOW DETAILS OR REPEAT ON ANY DRAWINGS THAT FIGURES, NOTES OR DETAILS GIVEN ON ANOTHER DRAWING SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PERFORM THE WORK (AT NO ADDITIONAL COST) AS IF SHOWN ON EACH AND EVERY DRAWING. ALL WORK SHALL BE IN A FIRST CLASS WORKMANSHIP MANNER, NEAT AND COMPLETE IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS AND THE UNIFORM BUILDING CODE, THE STATE ENERGY EFFICIENCY CODE AND ALL AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL ENDEAVOR TO PROTECT THE OWNER'S AND ADJACENT OWNER'S PROPERTY FROM DAMAGE DUE TO THE CONSTRUCTION PROCESS AT ALL TIMES AND REPAIR AT NO COST TO THE OWNER ANY DAMAGE THAT DOES OCCUR. CONTRACTOR SHALL ARRANGE FOR INSPECTIONS AND TESTS SPECIFIED OR REQUIRED BY THE CITY/COUNTY BUILDING DEPARTMENT AND SHALL PAY ALL FEES AND COSTS FOR THE SAME. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SECURE AND PAY FOR ALL PERMITS AND UPON COMPLETION OF THE WORK (PRIOR TO FINAL PAYMENT) DELIVER TO THE OWNER A CERTIFIED CERTIFICATE OF OCCUPANCY FROM THE CITY/COUNTY BUILDING AND ZONING DEPARTMENT. CONTRACTOR SHALL BE REQUIRED TO CARRY COMPREHENSIVE LIABILITY INSURANCE IN THE AMOUNT OF THE CONTRACT AND WORKMAN'S COMPENSATION INSURANCE AT HIS OWN EXPENSE. THE ALIA. GENERAL CONDITIONS OF THE CONTRACT FORM A201 (LATEST EDITION) ARE HEREBY MADE A PART OF THIS CONTRACT AS IF WRITTEN ON THE DOCUMENTS.
	THE CONTRACT AND WORKMAN'S COMPENSATION INSURANCE AT HIS OWN EXPENSE. THE A.I.A. GENERAL CONDITIONS OF THE CONTRACT FORM A201 (LATEST EDITION) ARE HEREBY MADE A PART OF THIS

DRAWING INDEX PROJECT TEAM GRAPHIC SYMBOLS ABBREVIATIONS SHEET TITLE INC. | SHEET | SHEET TITLE INC. SHEET SHEET TITLE INC. SHEET | SHEET TITLE Project Architect FLOOR OR POINT ELEVATION NUMBER 0.D. MECHANICAL/PLUMBING CONTINUED ARCHITECTURAL/CIVIL OUTSIDE FACE CENTER LINE A0.1 COVER SHEET PLUMBING GENERAL NOTES & LEGEND Donald L. Welch OVERHEAD DOOR CENTER LINE FOUNDATION FIRE EXTINGUISHER SPECIFICATIONS A0.2 PLUMBING EQUIPMENT SPECIFICATIONS FIRE EXTINGUISHER CABINET O.W.S.J. THREE LAYERS OPEN WEB STEEL JOIST DIAMETER Architect A.B. SPECIFICATIONS PLUMBING SCHEDULES ANCHOR BOLT A0.3 P11 POUNDS PER CUBIC FOOT SPECIFICATIONS A0.4 P12 PLUMBING DETAILS ADJUSTABLE PERPENDICULAR KEY NOTE ABOVE FINISH FLOOR 7533 Sandy Land Lane C100 UTILITIES PLAN P13 Midvale, Utah 84047-2799 WALL TYPE PNTD. PROT. P.S.F. OF ARCHITECTS GAGE/GAUGE DETAILS PLUMBING DETAILS C200 PROTECTION 801-548-6391 dwelch5977@msn.com MECH/PLUMB ROOF PLAN-BUILDING 'C' EXISTING SITE PLAN GALVANIZED APPROXIMATE POUNDS PER DOOR NUMBER GOVERNMENT FURNISHED SQUARE FOOT EXISTING DEMOLITION FLR. PLAN-BUILDING 'A' MECHANICAL PLAN-BUILDING 'C' Civil Engineers AMERICAN SOCIETY FOR POUNDS PER SQUARE INCH **WINDOW NUMBER** EXISTING DEMO. ELEVATIONS—BLDG'S. 'A' & 'E PLUMBING PLAN-BUILDING 'C' GOVERNMENT INSTALLED BD. BITUM. BLDG. B.M. GALLONS PER MINUTE REMODELED DIMENSION FLR. PLAN-BLDG. 'A ELECTRICAL FIXTURE TAG REINFORCED REMODELED FLOOR PLAN-BLDG. 'A' ■ EE001 SYMBOL SCHEDULE, SHEET INDEX **GOVERNMENT** REQUIRED BENCHMARK GYPSUM WALL BOARD **REVISION TAG** REMODELED REFLECTED CLG. PLAN-BLDG. 'A' ES101 ROUGH OPENING BOTTOM OF GYPSUM WALL BOARD David Jenkins, PE, SE HANDICAPPED EXISTING ROOF PLAN-BLDG. 'A POWER PLAN-BUILDING 'C' STEEL DECK INSTITUTE BASE PLATE EXIST'G. REMODELED ELEV'S.-BLDG'S. 'A' & 'B' TYPICAL POWER PLANS HOLLOW METAL EP401 SHOWER 45 West 10000 South, Suite 500 BETWEEN ENLARGED PLANS-BUILDING 'A' EP501 DETAILS BUILDING OR WALL ELEVATION Sandy, UT 84070 HEADED STUD ANCHOR STEEL JOIST INSTITUTE C.J. CLG. CLR. CMU COL. CONC. CONT. CONST. COORD. C.P. C.T.J. CONSTRUCTION JOINT FIRE MARSHAL REQUIREMENTS; CAB. DTLS. **■** EP502 DETAILS Phone: 801-255-0529 SPECIFICATION SOUND TRANSMISSION ■ EP503 HEATING/VENTILATION/ EQUIPMENT KEYED NOTES Fax: 801-255-4449 AIR CONDITIONING WALL SECTION CONCRETE MASONRY UNIT COEFFICIENT FINISH SCHEDULE ONE-LINE DIAGRAM A6.1A STIFF. Mechanical/Plumbing/ INSIDE DIAMETER STIFFENER PANEL SCHEDULES DOOR SCHEDULE A7.1A **E**P602 INSIDE FACE **STRUCTURAL BUILDING SECTION** Electrical Engineers Super. Susp. Thru SUPERVISOR INCHES DOOR HARDWARE SCHEDULE PANEL SCHEDULES A7.1C EP603 INFORMATION SUSPENDED ARCHITECTURAL DETAILS LIGHTING PLAN-BUILDING 'C' INSULATION THROUGH INTERIOR ELEVATION LAVATORY ACCESSIBILE AND FIRE PENETRATION DETAILS LIGHTING FIXTURE SCHEDULE EL601 DBL. DEPT DET. TOP OF ASPHALT LIGHT WEIGHT TOP OF CURB ENTRY MECHANICAL/PLUMBING AUXILIARY PLAN-BUILDING 'C' TOP OF FOOTING ROOM NAME & NUMBER MAINTENANCE DIA. DTL. FA11C FIRE ALARM PLAN — BUILDING 'C' MECHANICAL GENERAL NOTES & LEGENDS **MANUFACTURER** OR SIDEWALK MAXIMUM DWGS. MECHANICAL EQUIPMENT SPECIFICATIONS TOP OF WALL MATERIAL MASONRY CONTROL JOINT MECHANICAL SCHEDULES & DETAILS EACH FACE U.N.O. UNLESS NOTED MECHANICAL E.J. EXPANSION JOINT OTHERWISE MANUFACTURER MECHANICAL DETAILS MASTER GRID LINES M12 VINYL COMPOSITION EL. ELEV. Benjamin J. Schlup MECHANICAL DETAILS ELEVATION MISCELLANEOUS VERT. VEST. VERTICAL -Mechanical/Plumbing Engineer MASONRY OPENING VESTIBULE EACH SIDE Peter E. Johansen, P.E. VNR. W/ VENEER NOT IN CONTRACT - Electrical Engineer NUMBER WOOD NOT TO SCALE — PARKING GRID LINES 324 South State Street, Suite 400 WELDED WIRE FABRIC ON CENTER Salt Lake City, UT 84111 [p] 801-328-5151 info@spectrum-engineers.com BUILDING GRID LINES

Donald L. Welch Architect

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC 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 I. 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:

oroject:
Tenant Finish
for
Brighton Recovery

4905, 4911, 4915, 4925, 4931, 4953 South 900 East Salt Lake County, Utah

DECEMBER 28, 2016

revisions

JANUARY 3, 2017
SECOND SUBMITTAL FOR

JANUARY 6, 2017

ADDENDUM #2-BUILDING 'C'

JANUARY 17, 2017

ADDENDUM #4-BUILDING 'B'

FEBRUARY 24, 2017

ADDENDUM #7-BUILDING 'A'

BUILDING 'F', 'B', 'C', 'D', 'E'

MARCH 20, 2017

ADDENDUM #8-BUILDING 'A'

BUILDING 'F'

BUILDING 'F'

project no:
drawn by:
checked by:

TITLE SHEET

Sheet

A0

PART I - GENERAL

A. The Architect considers these plans to be generally accu- rate, reliable, and free of defect, but does not guarantee their absolute accuracy to the last detail; ac- cordingly, the contractor shall verify all dimensions and conditions before starting work, and shall immediately notify the Architect and/or Engineers of any omissions, discrepancies, or errors found.

B. In the event any conflicting items should occur in the drawings, general notes, specifications, building codes, or soils report, that condition or requirement which is the most stringent shall govern.

C. Any construction technique, process, or specialty not specifically

dealt with in these plans shall be in ac- cordance with the minimum

requirements set forth in the 2015 edition of the International Building Code, 2015 International Existing Building Code, any applicable local municipal code, or manufacturer's or trade association's recommendations; the most stringent shall govern. D. Any proposed modifications or changes to these plans are subject to

review by the Architect. The Architect shall NOT BE RESPONSIBLE FOR ANY CHANGES made without his knowledge and written approval. E. The contractor shall abide by the requirements set forth

in the "General Conditions of the Contract for Construction", A.I.A. Document A-201, dated 2012. F. ALL MATERIALS MENTIONED HEREIN MAY NOT BE USED IN

EVERY BUILDING (coordinate with drawings). G. Any "or equal" note shall mean "if approved by the Designer in advance.

H. For all applicable Specification Sections: Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions

DIVISION 2 - SITEWORK

02010 - SUBSURFACE INVESTIGATION PART I - GENERAL

-NOT APPLICABLE

SECTION 02419 - SELECTIVE DEMOLITION PART 1 GENERAL 1.1 SECTION INCLUDES

A. Selective Site Demolition: 1. Demolition of designated site improvements including paving, curbing, site walls, and utility structures.

2. Demolition of below-grade foundations and site improvements to depth to avoid conflict with new construction or site work.

3. Removal of hollow items or items which could

4. Salvage of designated items. 5. Protection of site work and adjacent structures. Disconnection, capping, and removal of utilities. 7. Pollution control during building demolition,

including noise 8. Removal and legal disposal of materials.

9. Designated site improvements and adjacent construction. 10. Interruption, capping or removal of utilities as

B. Selective Building Demolition: 1. Selective demolition of interior partitions, systems, and building components designated to be removed. Selective demolition of exterior facade, structures

components designated to be

removed. 3. Protection of portions of building adjacent to or affected by selective demolition 4. Removal of abandoned utilities and wiring

systems 5. Notification to Owner of schedule of shut-off of utilities which serve occupied spaces. 6. Pollution control during selective demolition,

including noise 7. Removal and legal disposal of materials. 8. Protection of designated site improvements and

adjacent construction 9. Salvage of designated items.

10. Interruption, capping or removal of utilities as

applicable C. Hazardous Materials 1. Not present.

> 2. Removed under separate prior contract. 3. Removed as a part of this contract.

1.2 QUALITY ASSURANCE A. Codes and Regulations: Comply with governing codes

and regulations. Use experienced workers. 1.3 SEQUENCING A. Immediate areas of work will not be occupied during demolition. The public, including selective

children, may occupy adjacent B. No responsibility for buildings and structures to be demolished will be assumed by the Owner. C. Ensure that products of this section are supplied to time to prevent interruption of affected trades in construction progress.

PART 3 EXECUTION 3.1 SELECTIVE DEMOLITION

A. Demolition Operations: Do not damage building improvements indicated to elements and remain. Items of salvage value, not schedule of salvage items to be returned to Owner, shall be removed from structure. Storage or sale of items at project site prohibited.

B. Utilities: Locate, identify, disconnect, and seal or cap off buildings to be demolished. utilities in C. Shoring and Bracing: Provide and maintain interior and exterior shoring and bracing.

D. Occupied Spaces: Do not close or obstruct streets, walks, drives or other occupied or used spaces or facilities without the written permission of the Owner and the authorities having jurisdiction. Do interrupt utilities serving occupied or used facilities without the written permission of the Owner and authorities having jurisdiction. If necessary, provide temporary utilities

E. Operations: Cease operations if public safety or remaining structures are endangered. Perform temporary corrective measures until can be continued properly.

F. Security: Provide adequate protection against accidental trespassing. Secure project after work hours. G. Restoration: Restore finishes of patched areas. 3.2 SCHEDULE

A. Items to be Salvaged for Delivery to Owner: 1. Doors and hardware.

D. Utilities Requiring Interruption, Capping, or Removal: Electric.

2. Heat. Water. 4. Gas. 5. Sewerage

02730 - SANITARY SEWERAGE

PART I - GENERAL

A. The contractor and plumber shall check actual sewer depth PRIOR to foundation excavation. If sewer depth is inadequately shallow for construction according to plans, the contractor shall notify the Architect in writing, and obtain Architect's response before proceeding with excavation work.

DIVISION 3 - CONCRETE 03300 - CAST-IN-PLACE CONCRETE PART I - GENERAL

A. If requested, submit concrete mix designs to general contractor for approval prior to any pours.

B. Concrete compressive strength of all footings, stem walls, crawlspace foundation walls, and interior slabs-on-grade shall be equal to at least 2500 psi within 28 days after pouring; whereas full basement walls and retaining walls shall attain a compressive strength of at least 3000 psi. Minimum strength for exterior flatwork shall be 2500 psi, but 3000 psi is recommended.

PART II - PRODUCTS

A. Cement shall be gray Portland Type II, low alkaline. Slump shall be 3 to 4 maximum for stem walls and footings, 4 to 5 maximum for walls, and slabs-on-grade, including interior slabs-on-grade, self-supporting slabs, exterior concrete porches, driveways and sidewalks. B. Continuous footings shall be 10" deep x 20" wide, w/ (2) #4 bars x cont., and #4 J-bar dowels at 24" o.c. (unless

noted otherwise on drawings). C. Foundation walls shall be 8" wide (typical unless otherwise noted on drawings).

D. All foundation walls shall be reinforced with #4 bars @ 24" o.c. horizontally & vertically, with every other vertical bar tied to footing dowel (unless noted otherwise on drawings).

E. Fly ash content shall not exceed 15% in any mix design. F. All metal reinforcing bars shall be ASTM A-615 grade 60 (Fy=60 ksi).

G. Welded wire fabric/mesh shall comply with ASTM A 185. H. Where 6" x 6" welded wire mesh is recommended, slabs shall be 4" thick and have "chairs" @ 3'-0" o.c. each way to hold mesh 1" minimum above bottom of slab.

PART III - EXECUTION

A. All concrete work shall comply with A.C.I. Standard Specification for Structural Concrete for Buildings (A.C.I. 301-72; revised 1981).

B. All walls shall be shored prior to backfilling. C. Maximum spacing of horizontal bars in stem walls shall be

D. All reinforcing bars shall be anchored and spaced from the forms (unless otherwise noted) as follows: 3/4" in protected walls and suspended slabs, 2" in unprotected walls, and 3" above bottom of footings. E. All splices in continuous reinforcing bars are to be lapped

a minimum of 40 bar diameters. F. Horizontal reinforcing shall run continuous around foundation wall corners, or shall be tied to corner rebar

dowels G. All lumber in contact with concrete to be pressure treated lumber or redwood. See 06 610 - Rough

DIVISION 5 - METALS 05120 - STRUCTURAL STEEL

PART I - GENERAL See DIVISION 1 A. All structural steel shall conform to ASTM a-36,

Fy = 36 ksi, and anchor bolts shall conform to ASTM A-307. 05500 - METAL FABRICATIONS

PART I - GENERAL

PART II - PRODUCTS

A. Materials:

1. Steel plates, shapes, and bars: ASTM A 36. 2. Steel bar grating: ASTM A569. 3. Bolts: ASTM A 325.

See DIVISION 1

4. Fasteners: Zinc coated fasteners designed for loading and use.

PART III - EXECUTION

A. Take field measurements prior to fabrication. Do not delay job; allow for cutting and fitting if field measurement not practical.

B. Form work true to line with sharp angles and edges. Weld continuously, grind flush and make smooth

on exposed surfaces.

C. Lintels: Provide sizes indicated with 8" bearing each end.

DIVISION 6 - WOOD AND PLASTICS 06100 - ROUGH CARPENTRY

PART I - GENERAL See DIVISION 1

A. All lumber shall conform to PS20-70 (the American Lumber Standard) and be graded by the latest edition of the WWPA. Each piece of lumber shall bear an official grade stamp and trademark.

B. Assumed floor and roof loads (verify with local jurisdiction and coordinate w/ Struct. Drawings and notes.

PART II - PRODUCTS A. Unless otherwise noted in structural drawings,

all structural members shall be of Douglas Fir No. 2 grade or better. B. Timber in contact with concrete shall be redwood

or pressure treated fir. C. Exposed wood columns and timbers shall be Douglas Fir Larch, Construction Grade, and "Free of Heart Center", with edges lightly eased. Concealed columns and timbers may be Douglas Fir Larch No. 1 (Fb=1200 psi, Fv=85, and

E = 1.600,000 psi, minimum.D. Framing anchors shall be "Simpson Strong-Tie", "Teco", or "Silver Metal Products, Inc.". Provide Simpson connectors at locations as required or where indicated on on framing drawings. Use "Simpson Ornamental Connectors" or equal, at front entry porch posts and beams (unless otherwise directed by Owner).

E. All headers shall be (2) 2 x 12's minimum, unless otherwise noted.

F. Provide cross bridging at midspan for all spans over 8'-0", and at one-third points for spans over 16'-0" (bridging not required with TJI floor system, unless noted otherwise. G. Provide and install tie-down clips as per code on each truss, alternate ends.

H. Provide diagonal bracing at all truss gable ends. I. Bearing walls supporting two floors shall be 2 x 6 studs @ 16" o.c. anchored as noted in structural notes. Non-bearing interior walls shall be 2 x 4 studs @ 16" o.c. J. Interior (non-bearing) prefabricated "Marbeline columns to be

as directed, selected and approved by Owner & Designer. PART III - EXECUTION

A. All built-up beams and typical headers shall be nailed together with 16d nails at each end, and construction adhesive between members. Typical headers shall, in addition, contain a single solid layer of 1/2" CDX plywood between members.

B. Crown all framing members. C. Provide solid fire blocking at floor and roof lines for

fireplace chase D. Double framing members shall be provided directly below roof-mounted equipment plates, hangers for heavy equipment, and hangers for any and all piping 4" in diameter or larger, unless otherwise detailed.

E. Double joists under all parallel partitions. F. All wood stud bearing walls over 10'-0" high shall have horizontal herringbone bridging, not less than 2" nominal thickness x same width as studs, fitted tight and spiked to studs. Bridging shall be at mid-height of partition, or not more than 7'-0" o.c. in any situation. For walls

over 10'-0" in height studs shall be minimum 2 x 6 studs at 16" o.c. with horizontal herringbone bridging of same dimension, fitted tight and spiked to studs. Bridging shall be spaced at one-third points.

G. Provide solid blocking at all bearing walls, midheight. H. Cross bridging or bracing shall be provided at all floor and roof joist locations where the span exceeds receive bridging at one-third points. Bridging

8'-0" clear. Span locations that exceed 16'-0" clear shall shall be Simpson Strong-Tie (or equal) Nailess Metal Bridging, min. 16 gauge steel with "V" section, or solid bridging not less than one size smaller than joist.

I. Minimum nailing of lumber members shall be installed in accordance with U.B.C. tables or other

applicable local building codes. J. Bearing walls shall have double top plates with joints lapped a minimum of 48", and fastened together with a minimum of (10) 16d nails each side of lap; nails shall be driven in pairs at a maximum spacing of 12" o.c.

K. Provide bracing at all corners and at every 25', minimum, along all exterior walls unless otherwise noted on structural plans. Braced area shall be not less than 25% of total exterior wall area.

L. Wood Treatment: Preservative treatment: Pressure treated with waterborne preservatives, to comply with AWPB LP-2 for above-ground items. Kiln dry after treatment to 19% max. moisture content for lumber and 15% for plywood. Treat above-ground wood exposed to deterioration by moisture and all wood in contact with the ground or fresh water.

06112 - PLYWOOD AND DIAPHRAGMS PART I - GENERAL See DIVISION 1

PART II - PRODUCTS

A. Unless otherwise noted in structural drawings, Roof sheathing shall be 5/8" waferboard sheathing or 5/8" CDX plywood with exterior glue, bearing a 42/20 span index. "Simpson Strong-Tie" plywood sheathing clips shall be installed at midspan at all locations where spacing of trusses exceeds 24" o.c. Fasten plywood at edges with 8d commons at 6" o.c., or 14 gauge 1 1/2" staples. Fasten field of panels with 8d commons at 12" o.c., or 14 gauge 1 1/2" staples.

B. Floor sheathing shall be 3/4" C.D.X. T & G plywood or waferboard with exterior glue, bearing a 42/20 span index, minimum. Fasten with 10d ring shank nails at 6" o.c. at edges and boundary, and 10" o.c. in field, or use 16 gauge 1 5/8" x 7/16" staples at 2 1/2" o.c. at edges and 4" o.c. in field.

C. Structural shear panels at exterior and interior walls shall be 1/2" C.D.X. plywood or waferboard 24/0 nailed same as roof sheathing above. Solid block above shear panels, and nail through sheathing with (4) 8d nails and toenail with (3) 16d nails minimum. D. Non-structural shear panels at walls may be 1/2" celotex. E. Provide metal hurricane ties at each rafter or truss. PART III - EXECUTION

A. All sheathing shall be installed with joints staggered, and face grain running perpendicular to framing direction, with a two-span minimum.

06190 - PREFABRICATED WOOD TRUSSES

PART I - GENERAL See DIVISION 1

THIS SECTION PERTAINS TO ANY EXISTING WOOD TRUSSES THAT MAY BE NECESSARY TO BE REPLACED-FIELD VERIFY AND INSPECT ALL EXISTING ROOF TRUSSES

A. Provide prefabricated and pre-engineered wood trusses. B. Comply with recommendations of TPI Design Specifications

for Metal Plate Connected Wood Trusses PART II - PRODUCTS

A. Trusses: Standard dimensional lumber connected by metal plates. B. Wood: Softwood meeting stress rating and design requirements. C. Metal Plates: Galvanized sheet steel, ASTM A 446, Grade A, coating G60.

D. Accessories: Wind anchors and bracing.

06200 - FINISH CARPENTRY AND MILLWORK PART I - GENERAL See DIVISION 1

A. Provide finish carpentry for exterior items exposed to view: 1. Running and standing trim and moldings.

Door frames. Decorative elements. B. Provide finish carpentry for interior items exposed to view: 1. Running and standing trim and mouldings, door and window casing, paneling, wood shelving and closet accessories, wood stair treads, rails and balusters wood valences, decorative elements, and fireplace mantel.

C. Provide custom millwork with ship finish: 1. Wood casework and cabinets, plastic laminate casework and countertops. Quality standard for fabrication and products: Architectural Woodwork Institute Quality Standards, Premium grade unless noted otherwise.

PART II - PRODUCTS

A. Exterior finish carpentry: I. Trim and boards for transparent finish: N.A.

2. Trim and boards for painted finish: Clear pine or fir, or other softwood suitable for exposure and use. B. Interior finish carpentry and millwork: 1. Trim and boards for transparent finish: N.A.

2. Trim and boards for opaque finish: Softwood suitable for exposure and use. Base and door casing shall be 3" colonial profile (coordinate with Owner). Profile to be approved by Owner. 3. Plastic Laminate: NEMA LD-3, 0.050" thick horizontal

grade. At counters, adhere to 3/4" particle substrate. 4. Wood shelving and closet accessories. 5. Wood stair treads, risers, stringers (including circular stair-to be designed by stair manuf, as directed by home Designer), rails and balusters.

6. Fireplace mantels as directed by Owner and Designer. C. Shelving and closets: . Service and closet shelving: Melamine with round nosing. 2. Wall brackets: Knape and Vogt or approved equal.

3. Closet bars: Telescoping steel with chrome finish. PART III - EXECUTION

A. Provide work to sizes, shapes, and profiles indicated. Install work to comply with quality standards referenced. Back prime work and install plumb, level and straight with tight joints; scribe work to fit.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

07196 - NON WOVEN AIR RETARDERS PART I - GENERAL

A. Furnish and install air retarder on the exterior

side of exterior wall sheathing PART II - PRODUCTS

A. Approved Manufacturers: I. Barracade by Simplex Products Division, Adrian, MI. 2. Rufcowrap by Raven Industries, Sioux Falls, SD.

3. Tyvek Housewrap by DuPont Company, Wilmington, DE. PART III - EXECUTION A. Install in accordance with manuf. instructions over

exterior wall sheathing. Seal penetrations through air infiltration retarder immediately prior to installation of finish material. B. Vapor retarder is to be air tight and free from holes, tears,

and punctures 1. At completion of air infiltration retarder installation, inspect exposed air infiltration retarder for holes, tears, and punctures and repair damaged areas.

07200 - INSULATION

PART I - GENERAL See DIVISION 1

A. Provide building insulation of blanket and loose-fill types as applicable

1. Roofs and attics (interior), fiberglass batt or loose fill type insulation. 2. Exterior stud walls, fiberglass, mineral fiber batt or loose fill type insulation.

3. Soffits (where occurs at structural overhang), floors of living spaces above garage & crawlspace. B. Provide vapor barrier at building perimeter.

C. Use experienced installers. PART II - PRODUCTS

A. Blanket/batt type insulation: Unfaced, 4 mil visqueen (vapor barrier), glass fiber blanket insulation types; Owens Corning Fiberglass Corp. or approved equal (ALTERNATE: Loose fill type insulation).

> a. 12" fiberglass batt, R-38 (or loose fill type insul.), 4 mil visqueen. 2. Exterior stud walls and floors over crawlspace, garage, or overhang:

a. 6" fiberglass batt, R-19 (or loose fill type insul.), 4 mil visqueen; 3 1/2" fiberglass batt, R-11 (min.) @ basement fndn. walls (Coord. w/ Owner). B. Alternate loose fill type insulation: Loose, granular

perlite or vermiculite. C. Vapor barrier: 4 mil clear polyethylene sheet. PART III - EXECUTION

A. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction. Coordinate with work of other sections. Provide full thickness in one layer over entire area, tightly fitting around penetrations. B. Install vapor barrier over entire area of inside face of exterior walls and elsewhere as indicated. Seal all seams and around perimeter and penetrations with duct tape to form a continuous vapor barrier free of holes. C. Protect installed insulation and vapor barrier. D. Blow loose insulation into required areas; take great care to provide uniform coverage at correct

density and thickness to obtain specified R-value.

SECTION 07320 **CLAY ROOF TILE**

PART 1 GENERAL

1.1 SECTION INCLUDES A. Replacement of existing Clay roof tiles and roof system components if required and determined necessary

B. Underlayment. C. Related roof accessories.

1.5 QUALITY ASSURANCE A. Manufacturer Qualifications: Minimum five years documented experience producing concrete roof tile and member of Tile Roof Institute. B. Installer Qualifications: Minimum five years documented experience installing products specified in this section and/or supervision by a manufacturers authorized installation representative.

1.6 DELIVERY, STORAGE, AND HANDLING A. Store products in manufacturer's unopened packaging with labels intact until ready for installation B. Deliver products to project site in manufacturer's unopened pallets,

labeled with data indicating compliance with specified requirements.

C. Maintain dry storage area for products of this section until

1.7 SEQUENCING

installation of products.

A. Ensure that locating templates and other information required for installation of products of this section are furnished to affected trades in time to prevent interruption of construction progress. B. Ensure that products of this section are supplied to affected trades

1.8 PROJECT CONDITIONS

in time to prevent interruption of construction progress.

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's

B. Do not overload the roof. Distribute stacks of tile uniformly on roof at not greater than 12 inches (305 mm) in height. 1.9 WARRANTY A. 50-Year Limited Warranty is available on all MCA Tiles.

A. Provide an additional 1 percent of installed roof tiles, but not less than one full square, for Owner's use in roof maintenance. C. Furnish extra materials packaged with protective covering for storage and identified with labels clearly describing contents.

PART 2 PRODUCTS

1.10 EXTRA MATERIALS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: MCA Clay Roof Tile, which is located at: 1985 Sampson Ave.; Corona, CA 92879; Toll Free Tel: 800-736-6221; Tel: 951-736-9590; Fax: 951-736-6052; Email: request info (sales@mca-tile.com); Web: www.mca-tile.com

C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements. 2.2 CLAY ROOF TILE

B. Substitutions: As approved

A. Clay Tile General:

2.3 ACCESSORY MATERIALS

1. Made with up to 59 percent recycled raw materials and are 100 percent recyclable. 2. Class A fire rated.

B. One Piece "S" Mission Roofing Tile: Type I, ASTM C 1167 Grade 1 and ASTM E 108 (UL790), Class A. 1. Complies with Uniform Evaluation Report IAPMO ES 0356 (covers City of Los Angeles and is in lieu of ICC-ES), Florida Building Code FL1109-R. Miami-Dade County Approval 12-0320.32 and TDI Approval

> 2. Size: 19 inches by 14-1/2 inches (463 mm by 368 mm) 3. Exposed Size: 16 inches by 12 inches (406 mm by 305 mm)

1. No. 30 asphalt felt or equivalent complying with ASTM D 226,

4. Weight per square: 788 lbs (38 kg/m2).

Cool Roof and Energy Star rated.

5. Weight per piece: 10.5 lbs (4.8 ka). 6. Pieces per square: 75 pcs (pieces per M2: 8.073 pcs). 7. Color: Color to match existing unless otherwise determined

A. Substrate Materials: 1. Nailer Boards: Decay resistant, nominal 2 inches (50 mm) by sufficient height to satisfy project conditions, not bowed or twisted. B. Underlayment:

C. Fasteners: Sized to penetrate deck minimum 3/4 inch (19 mm) or through thickness of deck or batten. 1. Minimum No, 11 gage, 5/16 inch-diameter-head (7.9 mm),

corrosion-resistant nails. D. Rake and Gable End: 1. Prefabricated Rake and Ridge tile. Choose to match tile ** NOTE TO SPECIFIER ** Select the required flashing material from the

following paragraphs and delete those not required. Coordinate with flashing

specified in other sections of the specification. E. Flashings: 1. Ribbed Valley Metal, minimum 0.016-inch (26 gauge galvanized sheet) corrosion resistant metal flashing. 2. Other Flashing: At the juncture of the roof and vertical surfaces, flashing and counter-flashing shall be provided per roofing manufacturer's instructions, and when the flashing and counterflashing are of metal, they shall be not less than 0.019-inch (No. 26 galvanized sheet gage)

corrosion-resistant metal. 3. Plumbing Stacks and Other Pipes Penetrating Roofs as recommended by the manufacturer. NOTE TO SPECIFIER: Select adhesive if required, delete if not required.

F. Mortar materials, plastic cement and sealant: Code approved adhesive suitable to bond to clay roof tile. 1. Cement Mortar: ASTM C 270, Type M

3. Portland cement: ASTM C 150, Type 1.

4. Plastic cement: ASTM D 2822.

2. Sand: ASTM C 144.

5. Silicone sealant: ASTM D 1002. G. Snow Retention: Provide as required per local code and snow loads for metal and concrete roofing decks.

PART 3 EXECUTION

3.1 EXAMINATION

A. Do not begin installation until substrates have been properly B. Verify surfaces are uniform free of ridges, warp or voids, smooth, clean and dry C. If substrate preparation is the responsibility of another installer,

3.2 PREPARATION

elevate the first tile course.

the exposed tile surface.

3.5 CLEANING

A. Clean surfaces thoroughly prior to installation. B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result under the project conditions. 3.3 INSTALLATION - GENERAL A. Install in accordance with manufacturer's instructions and the

notify Architect of unsatisfactory preparation before proceeding.

. IAPMO UES Evaluation Report 0356 - Clay Roof Tiles. 2. IAPMO UES ER-2015 - TRI Concrete and Clay Roof Tile Installation Manual (TRI Installation Manual). 3. TRI Cold & Snow Concrete and Clay Tile Design Criteria for Cold and Snow Regions.

3.4 INSTALLATION A. Install in accordance with manufacturer's instructions and the applicable building code. 1. Deck surfaces must be clean and dry prior to installation of underlayment. Foreign particles must be cleaned from all interlocking areas to ensure proper seating and to prevent water damming. 2. Fascia boards or cant strips must be installed to properly

B. On vertical applications, and on extremely steep pitches where wind currents may cause lift: 1. Set the butt of each tile in a bead of the specified plastic cement or sealant, or provide stainless steel "Wind Locks" as required. 2. Use plastic cement and sealant carefully, and avoid smearing

under Products and delete the paragraphs that are not applicable. 3) Completely and neatly fill and point up all voids. C. Visual Inspection: Avoid color patterning, checkerboarding, spotting, and stairstepping: 1. After the installation of each 80 roofing tiles, make a visual

NOTE TO SPECIFIER: Select paragraphs applicable to the tile specified

40 feet (12 m). . Verify that tile courses follow straight and true lines; 3. Verify that color range is smooth with no abrupt changes. 4. Make necessary corrections before proceeding with further

inspection from the ground level and at a distance from the building of about

A. Remove all broken tile, debris and excess tile from roof. B. Sweep cut tiles clean 3.6 REPAIR AND REPLACEMENT

mechanical fastening may be required

A. Damaged Tile: 1. Break out damaged roof tile. Repair torn underlayment. Drive fastener flush

approved adhesive on tile in course below replacement tile.

5. Immediately set replacement tile in position assuring proper B. Damaged Small Valley and Hip Cuts: ** NOTE TO SPECIFIER ** For hip cuts on roof pitches greater than 7:12,

4. Apply minimum 3/8 inch (10 mm) by 2 inch (51 mm) bead of

1. Apply a minimum of 3/8 inch (10 mm) by 2 inch (51 mm) bead

of approved adhesive at head of cut tile. 2. Immediately set tile in course above in position assuring proper contact. 3.7 PROTECTION

A. Protect installed products until completion of project.

 B. Touch-up, repair or replace damaged products before Substantial 07600 - FLASHING AND SHEET METAL

PART I - GENERAL See DIVISION 1

2. Metal counter-flashing.

A. Provide flashing and sheet metal components for building construction.

3. Gutters and downspouts 4. Exposed metal trim units. 5. Miscellaneous sheet metal accessories.

PART II - PRODUCTS A. Flashing (including preformed metal fascia):

> 1. 20 gauge galvanized steel, G90 galvanizing, ASTM A 525. Flashing and fascia to be painted. Color as selected 2. Aluminum: 20 gage alloy 3003 anodized aluminum. Color

3. Aluminum clad fascia and soffits (coord. w/ Owner & Architect). B. Gutters and downspouts: 1. Galvanized Steel: 20 gage galvanized steel,

as selected by Owner.

G90 galvanizing, ASTM A 525. 2. Downspouts connected to 24" long concrete splashblock.

PART III - EXECUTION

A. Follow recommendations of SMACNA "Sheet Metal Manual". Allow for expansion. Isolate dissimilar materials. B. Flashing along the junction where any sloping roof surface abuts a vertical wall, parapet, chimney, etc., shall

be stepped separately with each shingle course.

not less than 1/300 of the attic floor area, half at

C. Install roof vents to provide a net free ventilating area

soffit, and half near ridge.

elch Donald L. we Architect

 $\Delta \infty$ Lar ah

THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC REPRESENTATION & MODELS THEREOF. ARE PROPRIETARY & CAN NOT BI COPIED. DUPLICATED. OR COMMERCIALLY EXPLOITED IN WHOLE OR IN PART WITHOUT THE SOLE AND EXPRESS WRITTEN PERMISSION FROM DONALD I. WELCH

CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNEL DNLY IN ACCORDANCE WITH THIS NOTICE.

THESE DRAWINGS ARE AVAILABLE FOR

LIMITED REVIEW AND EVALUATION BY CLIENTS

konsultant:



project: Tenant Finish Brighton Recovery

4905, 4911, 4915, 4925, 4931, 4953 South 900 East Salt Lake County, Utah

date DECEMBER 28, 2016

revisions

JANUARY 3, 2017 SECOND SUBMITTAL FOR EACH SEPERATE BUILDING PARCEL JANUARY 6, 2017 ∠2 ADDENDUM #2-BUILDING ' JANUARY 17, 2017 4 ADDENDUM #4-BUILDING 'E FEBRUARY 24, 2017 $\stackrel{\prime}{\sim}$ addendum #7—Building ' BUILDING 'F', 'B', 'C', 'D', '

48 ADDENDUM #8-BUILDING 3

MARCH 20, 2017

BUILDING 'I

drawn by: checked by: ltitle

SPECIFICATIONS

sheet

data

broject no:

and notes. Finish as noted. PART III - EXECUTION

D. NOT USED.

A. All pin-type hinges which are accessible from outside the secured area when the door is in the closed position shall have non-removeable hinge pins. B. Top and bottom hinges shall have 1/4" steel jamb studs which project a minimum of 1/4". C. Deadbolts shall be hardened steel, or shall contain hardened

E. All door hardware shall be as noted on hardware schedule

system specified in painting section. Wrap and protect.

D. Straight deadbolts shall have a minimum throw of

1" and an embedment of not less than 5/8". E. A hook-shaped or expanding lug-type deadbolt shall have a minimum throw of 3/4". F. Sliding doors and windows shall have a locking device,

and shall be constructed and installed, or equipped, with a device to prohibit the raising and removing of the active panel from the track while unit is in the closed position. G. Strike plates shall be secured to the jamb with a minimum of (2) screws no less than 1 1/2" long.

H. Upward-acting doors shall be secured with either a cylinder lock, a padlock with hardened steel shackle and hasp, a metal slide bar or bolt, or any equivalent device. I. Prefit doors to frames. Factory bevel doors. Adjust,

clean, and protect from damage. J. Install doors with not more than 1/8" clearance at top and sides, 1/2" at bottom.

08813 - GLASS AND GLAZING

A. Provide mirrors in bathrooms (coordinate with Owner); all glass in doors and shower enclosures and within 5'-0" of bathtub, and glass within 24" of floor or swinging doors shall be tempered. B. Mount mirror against gypsum board with suitable construction mastic.

PART II - PRODUCTS

PART I - GENERAL

A. Glass and Mirrors: meet requirements of ASTM C 1036-85, "Specification for Flat Glass". . Type I, Class 1-Clear. 2. Quality: q2 Mirror or q1 Mirror select. 3. Thickness: 0.16 inch minimum (Double Strength)

DIVISION 9 - FINISHES

4. Size: Field Verify.

PART I - GENERAL

A. Tolerances: Not more than 1/16" difference in true plane at joints between adjacent boards before finishing. After finishing, joints shall not be visible. Not more than 1/8" in 10' (10 feet) deviation from true plane, plumb, level and proper relation to adjacent surfaces in finished

See DIVISION 1

PART II - PRODUCTS

09250 - GYPSUM DRYWALL

A. Gypsum board: 1. Interior use: ASTM C 36, 1/2" thick regular, water

resistant, and fire resistant types as required; U.S. Gypsum, Gold Bond Div. National Gypsum, Domtar Gypsum or approved equal. a. Provide waterproof gypsum board at all tubs

and showers. b. Provide 5/8" type 'X' gypsum board at garage-side surface of all walls and ceilings of attached garage which adjoin any living space, screwed 7" o.c. maximum. Firetape all joints. Smooth finish. Also Type 'X' gyp. bd. below all stairways.

B. Fasteners: ASTM C 514 and ASTM C 646. Provide Type S bugle head screws at interior, cadmium plated at humid and exterior areas. Provide additional anchors and fasteners as required.

C. Joint reinforcement: ASTM C 587 paper or fiberglass tape and ready-mixed vinyl compound. D. Accessories: Galvanized steel corner beads, casing beads, control joints: U.S. Gypsum 800 series as applicable.

PART III - EXECUTION

A. Comply with ASTM C 840 and GA 216, "Recommended Specifications for the Application and Finishing of Gypsum Board". Fill wall cavities with insulation. Include blocking for accessories and similar items.

B. Install boards vertically. Do not allow butt-to-butt joints and joints that do not fall over framing members.

09300 - TILE PART I - GENERAL

See DIVISION 1 A. Provide and install ceramic and marble tile (coord. w/ Architect). B. Submit to Architect or Owner for approval samples,

product data, mock-ups. C. DIVISION 1 - GENERAL REQUIREMENTS.

PART II - PRODUCTS (coord. the following tile with the Owner) A. Unglazed porcelain ceramic mosaic tile: 2" x 2" x 1/4"

> factory mounted, plain face, square edges except cushion edge at corner; Porcelain Ceramics by American Olean or approved equal, price range 3, color as selected by Owner: 1. Floor tile, with slip resistant finish. 2. Counter top and bath tub tile (if applicable, coordinate with drawings and Owner).

B. Glazed wall tile: 4 1/4" x 4 1/4" x 5/16", plain with modified square edges, factory mounted: Bright Glazed Tile by American Olean or approved equal, color as selected by C. Quarry Tile: 12" x 12" x 1/2", unglazed slip-resistant

square edged tile; Dal Tile or approved equal, color as selected by Owner. D. Trim: Matching field tile color, size, texture: coved base.

E. Setting Methods: 1. Floors or horizontal surfaces: Thick set latex Portland cement mortar over waterproof membrane

2. Walls: Thin set latex Portland cement mortar. 3. Grout: Colored latex Portland cement grout.

PART III - EXECUTION

A. Comply with Tile Council of America and and ANSI Standard Specifications for Installation for substrate and installation required. Comply with manufacturer's

instructions and recommendations. B. Lay tile in grid pattern with alignment grids. Layout to provide uniform joint widths and to minimize cutting; do not use less than 1/2 tile units. C. Provide sealant joints where recommended by

TCA and approved by Designer. D. Grout and cure, clean and protect.

(If applicable - coordinate 09550 - WOOD FLOORING with Owner) PART I - GENERAL See DIVISION 1

A. Provide finished wood flooring. 1. Wood strip flooring (coord. w/ Owner & Designer. B. Comply with recommendations of National Oak Flooring Manuf. Association and the American Parquet Association. C. DIVISION 1 - GENERAL REQUIREMENTS.

PART II - PRODUCTS (coord. the following tile with the Owner) A. Wood strip flooring: Select grade plain-sawn white oak, 25/32" thick; 2 1/4" face width with standard random lengths; tongue and groove edges; Bruce Hardwood Floors

> or approved equal. 1. Field finish: Sand to level using successively finer sandpaper. : Benjamin Moore Benwood Paste Wood Filler or approved equal. Stain: 1 coat Benjamin Moore Benwood Architectural Penetrating Stain or approved equal. Varnish: 3 coats Benjamin Moore Satin Finish Varnish or approved equal.

thresholds matching wood flooring. PART III - EXECUTION

A. Comply with National Oak Flooring Manufacturer's Association Installation Manual. Provide adequate expansion space. B. Restore damaged finishes. Clean and protect work from damage.

B. Trim and accessories: Provide wood trim, saddles, nosing,

09650 - RESILIENT FLOORING

PART I - GENERAL See DIVISION 1

A. Provide resilient flooring and base. B. Submit for approval samples, product data, extra stock. C. DIVISION 1 - GENERAL REQUIREMENTS D. Provide materials and adhesives which do not contain

asbestos. PART II - PRODUCTS (coord. the following tile with the Owner)

A. Sheet Flooring: 1. Vinyl sheet flooring: 0.085" overall gage, 0.050" vinyl

wear layer; Custom Corlon by Armstrong World Industries, or approved equal.

PART III - EXECUTION

A. Comply with manufacturer's instructions and recommendations. Install in proper relation to adjacent

B. Prepare surfaces by cleaning, leveling and priming as required. Test adhesive for bond before general installation. Level to 1/8" in 10' tolerance C. Sheet flooring: Install sheets with tight joints and pattern in adjoining areas running in the same direction.

Layout to minimize seams as practical. D. Install accessories to minimize joints. E. Clean, polish, and protect.

09680 - CARPET PART I - GENERAL

> A. Provide and install carpeting: 1. Carpet and pad for tackless installation.

B. DIVISION 1 - GENERAL REQUIREMENTS. C. Submit for approval samples, product data, warranty,

See DIVISION 1

maintenance data, extra stock, proposed seaming layout.

PART II - PRODUCTS (coord. the following tile with the Owner) A. Carpet:

1. Manufacturer and Style: As approved by Owner. 2. Color: As selected by Owner. B. Mounting: 1. Tackless on pad: a. As approved by Owner.

C. Accessories: 1. Edge guard: Rubber or vinyl. a. Exceptions: 1) At tile use bullnose tile.

PART III - EXECUTION

A. Comply with recommendations of Carpet and Rug Institute "Specifier's Handbook".

2. Reducer strip: Vinyl or rubber.

B. Prepare surfaces and install materials in accordance with manufacturer's instructions and approved submittals. Clean, patch, and level substrate. Install materials in proper relation with adjacent construction and with uniform appearance. Coordinate with work of other sections.

C. Install edge guards and reducer strips as required; clean and protect materials during and after installation

SECTION 07320 CLAY ROOF TILE

PART 1 GENERAL

1.1 SECTION INCLUDES A. Replacement of existing Clay roof tiles and roof system components if required and determined necessary.

B. Underlayment. C. Related roof accessories. 1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: Minimum five years documented experience producing concrete roof tile and member of Tile Roof Institute. B. Installer Qualifications: Minimum five years documented experience installing products specified in this section and/or supervision by a manufacturers authorized installation representative.

1.6 DELIVERY, STORAGE, AND HANDLING A. Store products in manufacturer's unopened packaging with labels

intact until ready for installation. B. Deliver products to project site in manufacturer's unopened pallets, labeled with data indicating compliance with specified requirements. C. Maintain dry storage area for products of this section until installation

1.7 SEQUENCING

of products.

A. Ensure that locating templates and other information required for installation of products of this section are furnished to affected trades in time to prevent interruption of construction progress B. Ensure that products of this section are supplied to affected trades in

time to prevent interruption of construction progress.

and identified with labels clearly describing contents.

1.8 PROJECT CONDITIONS A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's B. Do not overload the roof. Distribute stacks of tile uniformly on roof at

not greater than 12 inches (305 mm) in height. 1.9 WARRANTY A. 50-Year Limited Warranty is available on all MCA Tiles.

1.10 EXTRA MATERIALS A. Provide an additional 1 percent of installed roof tiles, but not less than one full square, for Owner's use in roof maintenance. C. Furnish extra materials packaged with protective covering for storage

PART 2 PRODUCTS

2.1 MANUFACTURERS A. Acceptable Manufacturer: MCA Clay Roof Tile, which is located at: 1985 Sampson Ave.: Corona. CA 92879: Toll Free Tel: 800-736-6221: Tel: 951-736-9590; Fax: 951-736-6052; Email: request info (sales@mca-tile.com); Web: www.mca-tile.com

B. Substitutions: As approved C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements. 2.2 CLAY ROOF TILE

A. Clay Tile General:

1. Made with up to 59 percent recycled raw materials and are 100 percent recyclable. 2. Class A fire rated. 3. Cool Roof and Energy Star rated.

B. One Piece "S" Mission Roofing Tile: Type I, ASTM C 1167 Grade 1 and ASTM E 108 (UL790), Class A. 1. Complies with Uniform Evaluation Report IAPMO ES 0356 (covers City of Los Angeles and is in lieu of ICC-ES), Florida Building Code -FL1109-R. Miami-Dade County Approval 12-0320.32 and TDI Approval RC-21.

2. Size: 19 inches by 14-1/2 inches (463 mm by 368 mm) 3. Exposed Size: 16 inches by 12 inches (406 mm by 305 mm)

4. Weight per square: 788 lbs (38 kg/m2).

5. Weight per piece: 10.5 lbs (4.8 kg). 6. Pieces per square: 75 pcs (pieces per M2: 8.073 pcs). 7. Color: Color to match existing unless otherwise determined by

2.3 ACCESSORY MATERIALS

A. Substrate Materials: 1. Nailer Boards: Decay resistant, nominal 2 inches (50 mm) by sufficient height to satisfy project conditions, not bowed or twisted. B. Underlayment:

1. No. 30 asphalt felt or equivalent complying with ASTM D 226. C. Fasteners: Sized to penetrate deck minimum 3/4 inch (19 mm) or

through thickness of deck or batten 1. Minimum No, 11 gage, 5/16 inch-diameter-head (7.9 mm), corrosion-resistant nails.

D. Rake and Gable End: 1. Prefabricated Rake and Ridge tile. Choose to match tile profile and color.

E. Flashings: 1. Ribbed Valley Metal, minimum 0.016-inch (26 gauge galvanized sheet) corrosion resistant metal flashing. 2. Other Flashing: At the juncture of the roof and vertical surfaces flashing and counter-flashing shall be provided per roofing manufacturer's instructions, and when the flashing and counterflashing are of metal, they shall be not less than 0.019-inch (No. 26 galvanized sheet gage) corrosion-resistant

3. Plumbing Stacks and Other Pipes Penetrating Roofs as recommended by the manufacturer. F. Mortar materials, plastic cement and sealant: Code approved

adhesive suitable to bond to clay roof tile. 1. Cement Mortar: ASTM C 270, Type M 2. Sand: ASTM C 144.

3. Portland cement: ASTM C 150, Type 1. 4. Plastic cement: ASTM D 2822.

5. Silicone sealant: ASTM D 1002. G. Snow Retention: Provide as required per local code and snow loads for metal and concrete roofing decks.

PART 3 EXECUTION

3.1 EXAMINATION A. Do not begin installation until substrates have been properly prepared. B. Verify surfaces are uniform free of ridges, warp or voids, smooth, clean and dry

C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding. 3.2 PREPARATION

A. Clean surfaces thoroughly prior to installation. B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result under the project conditions. 3.3 INSTALLATION - GENERAL A. Install in accordance with manufacturer's instructions and the

following: 1. IAPMO UES Evaluation Report 0356 - Clay Roof Tiles. 2. IAPMO UES ER-2015 - TRI Concrete and Clay Roof Tile Installation Manual (TRI Installation Manual). 3. TRI Cold & Snow Concrete and Clay Tile Design Criteria for Cold and Snow Regions.

3.4 INSTALLATION A. Install in accordance with manufacturer's instructions and the applicable building code. 1. Deck surfaces must be clean and dry prior to installation of underlayment. Foreign particles must be cleaned from all interlocking areas to

ensure proper seating and to prevent water damming.

2. Fascia boards or cant strips must be installed to properly elevate the first tile course. B. On vertical applications, and on extremely steep pitches where wind currents may cause lift

1. Set the butt of each tile in a bead of the specified plastic cement or sealant, or provide stainless steel "Wind Locks" as required. 2. Use plastic cement and sealant carefully, and avoid smearing the exposed tile surface. 3) Completely and neatly fill and point up all voids.

C. Visual Inspection: Avoid color patterning, checkerboarding, spotting, and stairstepping: 1. After the installation of each 80 roofing tiles, make a visual inspection from the ground level and at a distance from the building of about 40 feet (12 m).

2. Verify that tile courses follow straight and true lines; 3. Verify that color range is smooth with no abrupt changes. 4. Make necessary corrections before proceeding with further

3.5 CLEANING A. Remove all broken tile, debris and excess tile from roof. B. Sweep cut tiles clean

3.6 REPAIR AND REPLACEMENT A. Damaged Tile: 1. Break out damaged roof tile. 2. Repair torn underlayment.

Drive fastener flush. 4. Apply minimum 3/8 inch (10 mm) by 2 inch (51 mm) bead of approved adhesive on tile in course below replacement tile. 5. Immediately set replacement tile in position assuring proper

B. Damaged Small Valley and Hip Cuts: 1. Apply a minimum of 3/8 inch (10 mm) by 2 inch (51 mm) bead of approved adhesive at head of cut tile. 2. Immediately set tile in course above in position assuring proper

3.7 PROTECTION A. Protect installed products until completion of project. B. Touch-up, repair or replace damaged products before Substantial Completion

09200 - EXTERIOR INSULATION & FINISH SYSTEM (EIFS)

PART I - GENERAL See DIVISION 1

A. Provide EIFS for exterior walls, to match existing stucco finish and thickness. 1. Exterior Insulation & Finish System, for exterior use.

B. DIVISION 1 - GENERAL REQUIREMENTS C. Contractor to provide submittal (deferred submittal) for EIFS system to Architect, then to city, for review and approval.

PART II - PRODUCTS

A. Finish System: Per Manuf's. instructions and recommendations. 1. Prepare finish coat for Top Coat Acrylic Finish (texture to be chosen by Owner).

2. Color to be chosen by Owner. B. Provide submittals to Architect and to Local Jurisdiction that will meet IBC 1704.12 for a water managment system, with a water resistive barrier, or provide special inspection for non-water management EIFS systems. C. Accessories: Galvanized steel corner beads, casing beads, control joints, expansion joints, trim.

D. Bonding agent for patching: Compatible with substrate. E. Exterior rigid insulation per Manuf's. instructions & recommendations.

PART III - EXECUTION

A. Install EFIS in accordance with ASTM C 926 and in accordance with manufacturer's instructions

B. At patching, prepare surface to sound substrate, apply bonding agent and patching materials in accordance with manufacturer's instructions. C. Install metal trims at perimeters and joints. At scratch coat form full keys. At second and third coats, ensure tight contact between coats. Tool edges at windows,

D. Apply Top Coat per manufacturer's instructions and recommendations. E. Clean adjacent surfaces soiled during installation.

doors, other openings to small 'V' to control spalling.

Touch-up damaged surfaces. Protect work from damage.

09900 - PAINTING

PART I - GENERAL See DIVISION 1

A. Provide surface preparation and painting for all unfinished interior and exterior surfaces, including electrical and mechanical equipment with shop primed surfaces. B. The use of paint containing more than the percent of lead

by weight permitted by law is prohibited. C. First-line standard products for all systems by Benjamin Moore, Pratt and Lambert, Glidden, Sherwin-Williams, Devoe,

Howells, or approved equal. PART II - PRODUCTS

A. Exterior paint systems: 1. Concrete and masonry: 2. Wood for opaque finish (walls): Acrylic latex stain 3. Wood for opaque finish (trim): 4. Wood for semi-transparent finish:

Semi-transparent stain (flat appearing finish), 2 coats. Ferrous metal: N/A. Galvanized metal: Alkyd primer, 1 coat; alkyd enamel,

gloss finish, 2 coats.

Alkyd metal primer,

finish), 2 coats.

B. Interior paint systems:

. Concrete: 2. Drywall (general): Latex primer, 1 coat; interior latex (semigloss finish), 2 coats. 3. Drywall (Bath Room): Latex primer, 1 coat; interior latex (semi-

gloss finish), 2 coats. Latex primer, 1 coat; 4. Wood opaque finish (walls): interior latex

(flat finish), 2 coats. 5. Wood opaque finish (trim): N/A. 6. Wood transparent finish: Oil stain, 1 coat; sanding sealer, 1 coat; alkyd varnish (gloss finish), 2

1 coat; alkyd enamel (gloss finish), 2 coats. 8. Garage (walls & ceiling) Latex primer, 1 coat; latex (semigloss

PART III - EXECUTION

7. Ferrous metal:

A. Match approved mock-ups for color, texture, and pattern. Re-coat or remove and replace work which does not match or shows loss of adhesion. Clean-up, touch-up, and

DIVISION 10 - SPECIALTIES

SECTION 10310 MANUFACTURED FIREPLACES

PART 1 GENERAL

1.1 SECTION INCLUDES A. Vent Free Gas Burning Manufactured Fireplaces

B. Direct Vent Gas Burning Manufactured Fireplaces.

1.4 SUBMITTALS A. Submit under provisions of Section 01 30 00 - Administrative Requirements.

1. Preparation instructions and recommendations. 2. Storage and handling requirements and recommendations. Installation methods, Including:

a. Fireplace unit rough opening dimensions, rough opening sizes for flue, and installation details. b. Fireplace unit cabinet dimensions, clearances required from adjacent

B. Product Data: Manufacturer's data sheets on each product to be used, including:

c. construction, and applicable regulatory agency approvals D. Manufacturer's Certificates: Certify products meet or exceed specified requirements. E. Closeout Submittals: Provide manufacturer's maintenance instructions that include recommendations for periodic checking and adjustment and periodic cleaning and maintenance of

1.7 SEQUENCING

A. Ensure that locating templates and other information required for installation of products of this section are furnished to affected trades in time to prevent interruption of construction progress. B. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

1.8 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.9 WARRANTY A. Provide manufacturer's limited lifetime warranty covering combustion chamber heat

PART 2 PRODUCTS 2.1 MANUFACTURERS

A. Acceptable Manufacturer: Napoleon Fireplaces, which is located at: Wolf Steel USA 103 Miller Dr.; Crittenden, KY 41030; Toll Free Tel: 800-461-5581; Email: request info (gthomas@napoleonproducts.com); Web: www.napoleonfireplaces.com

C. Requests for substitutions will be considered in accordance with provisions of Section 01

exchanger, stainless steel burner, logs, ceramic glass against thermal breakage, gold plated parts

60 00 - Product Requirements.

against tarnishing, porcelain enameled surfaces and aluminum extrusion trim.

2.2 VENT FREE GAS BURNING MANUFACTURED FIREPLACES (OPTION 1) A. General:

1. Comply with applicable building codes. B. Model: Plazma Fire VF31 Type: Vent free. 2. Fuel type:

Options:

 a. Natural gas 3. Dimensions: 43-5/16 inches wide by 28 inches high by 9-1/8 inches deep. 4. BTU rating: 6,000 BTU (natural gas and propane). 5. Fronts and Frame Fnish:

 a. Painted metallic black 6. Mounting Cabinets Finish: a. Painted metallic black. 7. Standard Features: a. MIRRO-FLAME Porcelain Reflective Radiant Panels

 b. Safetv Barrier. Standard Features a. Electronic Ignition

2.3 DIRECT VENT GAS BURNING MANUFACTURED FIREPLACES (OPTION 2) A. General: 1. Comply with applicable building codes. 2. Comply with ANSI Z21.88/CSA 2.33.

a. LED Accent Light Kit.

WHI listed. 4. Safety Barriers are "Safety Barrier Approved". B. Model: Ascent Linear BL36 Type: Direct Vent.

> Fuel type: a. Natural gas. 3. Dimensions: a. 34-1/2 inches high by 35 inches wide by 16-1/4 inches deep.

4. BTU rating: a. Up to 16,000 BTU (natural gas and propane). 5. Standard Features: a. Flame heat adjustment.

 b. Safety Barrier. c. Prewired for wall switch d. Glass ember bed. 6. Options: a. Decorative Front:

b. MIRRO-FLAME Porcelain Reflective Radiant Panels. c. On/off or Modulating Remote with Digital Screen d. Shore fire media kit

a. Decorative Front:

PART 3 EXECUTION

3.2 PREPARATION

3.1 EXAMINATION A. Do not begin installation until substrates have been properly prepared. B. If substrate preparation is the responsibility of another installer, notify Architect of

3) 4-Sided Surround with painted black finish.

** NOTE TO SPECIFIER ** Include the following paragraph if powered ventilators are provided. Delete if not required. C. Verify proper power supply and fuel source are available.

unsatisfactory preparation before proceeding.

A. Clean surfaces thoroughly prior to installation. B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

A. Install in accordance with manufacturer's instructions, ANSI Z21.44 and the requirements of authorities having jurisdiction. B. Use manufacturer's guidelines for minimum clearances to combustibles, walls, and

C. Set fireplace units plumb, level, and rigid

D. Anchor all components firmly in position.

E. Connect to natural gas system in accordance with NFPA 54. F. Upon completion of installation, visually inspect all exposed surfaces. Touch up scratches and abrasions with touch up paint recommended by the manufacturer; make imperfections invisible to the unaided eye from a distance of 5 feet.

3.4 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

elch Architect

Donald

 $\Delta \infty$ La₁ ah dy ut

THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC 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 I. WELCH ARCHITECT

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



project: Tenant Finish

Brighton Recovery

Campus 4905, 4911, 4915, 4925, 4931, 4953 South 900 East Salt Lake County, Utah

date

revisions **JANUARY 3, 2017** SECOND SUBMITTAL FOR EACH SEPERATE BUILDING PARCEL **JANUARY 6, 2017** $\sqrt{2}$ addendum #2—Building $^{\prime}$ JANUARY 17, 2017

 $\sqrt{4}$ addendum #4—Building 'b'

DECEMBER 28, 2016

FEBRUARY 24, 2017 $\sqrt{7}$ addendum #7-Building 'a' BUILDING 'F', 'B', 'C', 'D', 'E' MARCH 20, 2017 $\frac{\sqrt{8}}{}$ addendum #8-Building 'a' data project no: drawn by:

title **SPECIFICATIONS**

checked by:

sheet

D. Water supply: Public. 1" (one inch) copper. E. Water Meter size: 3/4" (three quarter inch). F. Hangers: For water piping, provide adjustable wrought iron copper plated hangers at 6' intervals maximum. Provide hangers to allow for full thickness of insulation. G. Covering and insulation (Owner's option): For domestic hot water piping provide 1/2" flexible foamed tubing by Owens Corning or Armstrong 1/2" Armaflex or approved equal. Seal joints vapor tight. Insulate valves and fittings including water service piping with equal thickness of pipe insulation. Provide 18 gauge protection saddles between insulation and pipe hangers. comply with fire hazard regulations. For water piping, provide adjustable wrought iron copper plated hangers at 6' intervals maximum. Provide hangers to allow for full thickness of insulation. H. Valves and shut-offs: Full size bronze gate valves for hot and cold water branches. provide drainage valves. Provide units by Hammond, Jenkins, Nibco or approved I. Hose bibbs: Anti-siphon hose bibbs by Woodford or approved

as determined by Owner. E. Venting Systems: Models, standard accessories/kits and custom accessories/kits as manufactured by GE Appliances, as determined by Owner.

2.4 MICROWAVE OVENS

Free Tel: 800-626-2000; Email: request info

Appliances, as determined by Owner.

www.geappliances.com/pro

Requirements.

2.2 REFRIGERATION

2.3 COOKING PRODUCTS

determined by Owner

(tyler.martin@ge.com): Web: www.geappliances.com |

accordance with provisions of Section 01 60 00 - Product

B. Requests for substitutions will be considered in

A. Refrigerators and Freezers: As manufactured by GE

A. Built-In Ovens: Models, standard accessories/kits and

C. Built-In Cooktops: Models, standard accessories/kits

custom accessories/kits as manufactured by GE Appliances, as

and custom accessories/kits as manufactured by GE Appliance,

A. Microwave Ovens: Models, standard accessories/kits and custom accessories/kits as manufactured by GE Appliances, as determined by Owner.

10800 - TOILET ACCESSORIES

See DIVISION 1

PART I - GENERAL

2.5 DISHWASHERS

A. Dishwashers: Models, standard accessories/kits and custom accessories/kits as manufactured by GE Appliances, as determined by Owner.

2.6 CLOTHES CARE

A. Clothes Care: Models, standard accessories/kits and custom accessories/kits as manufactured by GE Appliances, as determined by Owner.

PART 3 EXECUTION

Service from meter to house shall be 3/4" (unless utility

co. requires otherwise) copper.

J. Floor drains and cleanouts: Units with bronze strainer and copper flashing by Zurn or approved equal.

K. Provide pressure reducing valve if required by local

jurisdiction. L. Domestic water mixing valve: N/A. M. Water heater: (1) Domestic gas water heaters, quick

recovery 100 degree rise, 100 gallon capacity. Glass lined storage type for utility service at site. Provide baked enamel steel jacket, fiberglass insulation, and UL flame retention burner; 10 year warranty. N. Access panels: Metal units with locks by Karp, Milcor

Nystrom, or approved equal. Configuration and trim

as required by finish wall surface or trimmed wood panel may be acceptable with Owner's approval. O. Plumbing Fixtures: (coordinate with plumbing schedules) P. Gas piping to furnaces, water heater(s), and fireplace(s), and connection to meter: Carbon, Schedule 40 black

steel pipe, ASTM A 53, Grade A. Q. Provide pressure regulator at water main shut-off valve, with copper ground from electrical service attached each side of regulator.

PART III - EXECUTION

A. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials in proper relation with adjacent construction and with uniform appearance for exposed work. Coordinate with work of other sections. Comply with applicable regulations and building code

B. Support piping properly. Pitch to drain points. Install with pipe expansion loops, mechanical expansion joints,

C. Install shut-off valves on each piece of equipment on both hot and cold water supply.

 D. Clearly label all valves and components. E. Sterilize water distribution system. Flush and test all systems for proper operation. Adjust system to prevent

F. Install gas piping in accordance with local gas utility company regulations and specifications. G. Restore damaged finishes. Clean and protect work

I. Install steam room equipment (if applicable) per manufacturer's requirements and instructions.

15500 - HEATING, VENTILATING, & AIR CONDITIONING (coordinate with mechanical drawings and notes)

See DIVISION 1 A. Provide and install mechanical systems including: 1. Ventilating system including fans, sheet metal work,

> 2. Exhaust system for kitchen, kitchenettes, wet bar, 3. Air conditioning system (optional-verify w/ Owner).

4. Piping distribution system and insulation.

B. Coordinate with Owner's room uses to provide adequate

C. Coordinate location of mechanical systems to avoid interference with location of other systems. Notify Owner prior to construction of conflicts which cannot

E. Arrangement of systems indicated on the drawings is diagrammatic, and indicates the minimum requirements for mechanical work. Be responsible for accuracy of dimensions and layout. Overhead ductwork shall be laid

PART II - PRODUCTS (coord. w/ mech. dwgs. & sched's)

A. Valves: Provide valves required by service intended including gate, globe, check, and ball valves. Provide valves by Kennedy, Crane, Nibco, or approved equal. B. Hangers and supports: Comply with ANSI B31.1.

steel front and top panels by Trane, Airtherm or

D. Sheet metal work and accessories: Comply with "SMACNA Duct Manual and Sheet Metal Construction for Ventilating and Air Conditioning Systems".

1. (1) 80% or 90% efficient furnaces (Owner's option) designed for service intended by Carrier, Trane, Payne

F. Fan coil units: 22 gauge galvanized steel with seamless copper tube and aluminum fin coil by Trane, Carrier,

frame design, gaskets, and baked enamel finish by Agitair,

H. Controls: Automatic temperature control system with thermostats as required, by Honeywell, Johnson Controls I. Mechanical subcontractor shall provide ducting of all

exhaust fans, range hoods and dryer vents to exterior (flex ducting allowable only for bath exhausts). J. Mechanical subcontractor shall size furnace and all

plenums, ducts, registers, vents, flues, etc. K. Provide (2) combustion air vents to (each) furnace; (1) no lower than 12" below ceiling, and (1) no higher than 12" above floor.

PART III - EXECUTION

A. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials in proper relation with adjacent construction and with uniform appearance for exposed work. Coordinate with work of other sections. Comply with applicable regulations and building code

B. Install ductwork in accordance with SMACNA recommendations. Seal duct seams with sealer. Provide splitters and balancing dampers. Provide fire dampers and automatic smoke and fire dampers where required. Provide flexible connectors and inlet and discharge connections. Clean before testing and balancing.

C. Clearly label and tag all components.

D. Test and balance all systems for proper operation. E. Restore damaged finishes. Clean & protect work from damage. F. Instruct Owner in proper operation of systems.

DIVISION 16 - ELECTRICAL

16000 - ELECTRICAL (coord. w/ elec. dwgs. & notes)

PART I - GENERAL See DIVISION 1

A. Provide electrical systems including:

1. Power. Lighting.

3. Cable TV System (optional)

4. Telephone. 5. Security System (coordinate w/ Owner).

B. DIVISION 1 - GENERAL REQUIREMENTS C. Include primary service, transformers, distribution

Smoke Detectors.

center, grounding, power and lighting panels, wiring, outlet boxes, receptacles, lighting fixtures, switches, conduits, and raceways and all accessories.

D. Provide telephone and data outlets with cutout, box and pull string only.

E. Service panel shall be 200 amp, and shall comply with

F. Coordinate with Owner's room uses to provide adequate

system for all contract areas. G. Coordinate location of ductwork and to avoid

interference with location of designated lighting fixture locations. Notify Owner prior to construction of conflicts which cannot be resolved.

H. Coordinate schedule of telephone outlet completion with Owner's communications requirements and installer as applicable.

I. Arrangement of systems indicated on the drawings is diagrammatic, and indicates the minimum requirements for electrical work. Site conditions shall determine the actual arrangement of conduits, boxes, and similar items. Take field measurements before fabrication. Be responsible for accuracy of dimensions and layout.

J. Comply with the National Electrical Code and applicable local regulations.

PART II - PRODUCTS (coord. w/ elec. drawings & notes)

A. Conduit: At service panel only.

B. Exposed metal raceways: N/A.

C. Boxes: Plastic or metal. D. Conductors and wiring: Romex or equal.

E. Wiring devices: Receptacles, lighting switches, ground fault receptacles, dimmers, and coverplates as required. Color: Standard almond.

F. All electrical outlets in firewall at garage shall be GFCI in metal boxes.

PART III - EXECUTION

A. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials in proper relation with adjacent construction and with uniform appearance for exposed work. Coordinate with work of other sections. Comply with applicable regulations and building code

B. Comply with National Electrical Code and building code requirements. Maintain continuity of circuits required

to supply new equipment in service. C. Test all systems for proper operation. Restore damaged finishes. Clean and protect work from damage.

 D. Smoke detectors shall comply with UBC 43-6, shall be wired in series, and shall be placed a minimum of 36" from nearest duct opening and within 12" of ceiling.

E. Provide ground fault interruptor (GFI) circuits to all exterior outlets and all interior outlets within 72" of water source. F. Service grounding shall be a minimum of (20) linear

feet of #4 copper conductor, placed in footing with a minimum clearance of 2". G. Interior metal water piping shall be grounded by electrically continuous bonding with a minimum #4 copper

conductor connected to the grounding electrode

conductor at the service panel. Bridge over pressure

reducing valve (if installed). H. Electrician shall pre-wire for blower unit at all fireplace locations and pushbutton control(s) for automatic garage door opener(s).

Welch $\vec{\Delta}$ ∞ rchit dy ut Donald Arcl

THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC 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 I. WELCH

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.

konsultant:



project: Tenant Finish Brighton Recovery

Campus 4905, 4911, 4915, 4925, 4931, 4953 South 900 East Salt Lake County, Utah

date DECEMBER 28, 2016 revisions SECOND SUBMITTAL FOR EACH SEPERATE BUILDING PARCEL JANUARY 6, 2017 2 ADDENDUM #2-BUILDING

4 ADDENDUM #4-BUILDING 'B FEBRUARY 24, 2017 7 Addendum #7-Building 'A BUILDING 'F", 'B', 'C', 'D', 'I MARCH 20, 2017 ADDENDUM #8-BUILDING 'A' BUILDING ' data

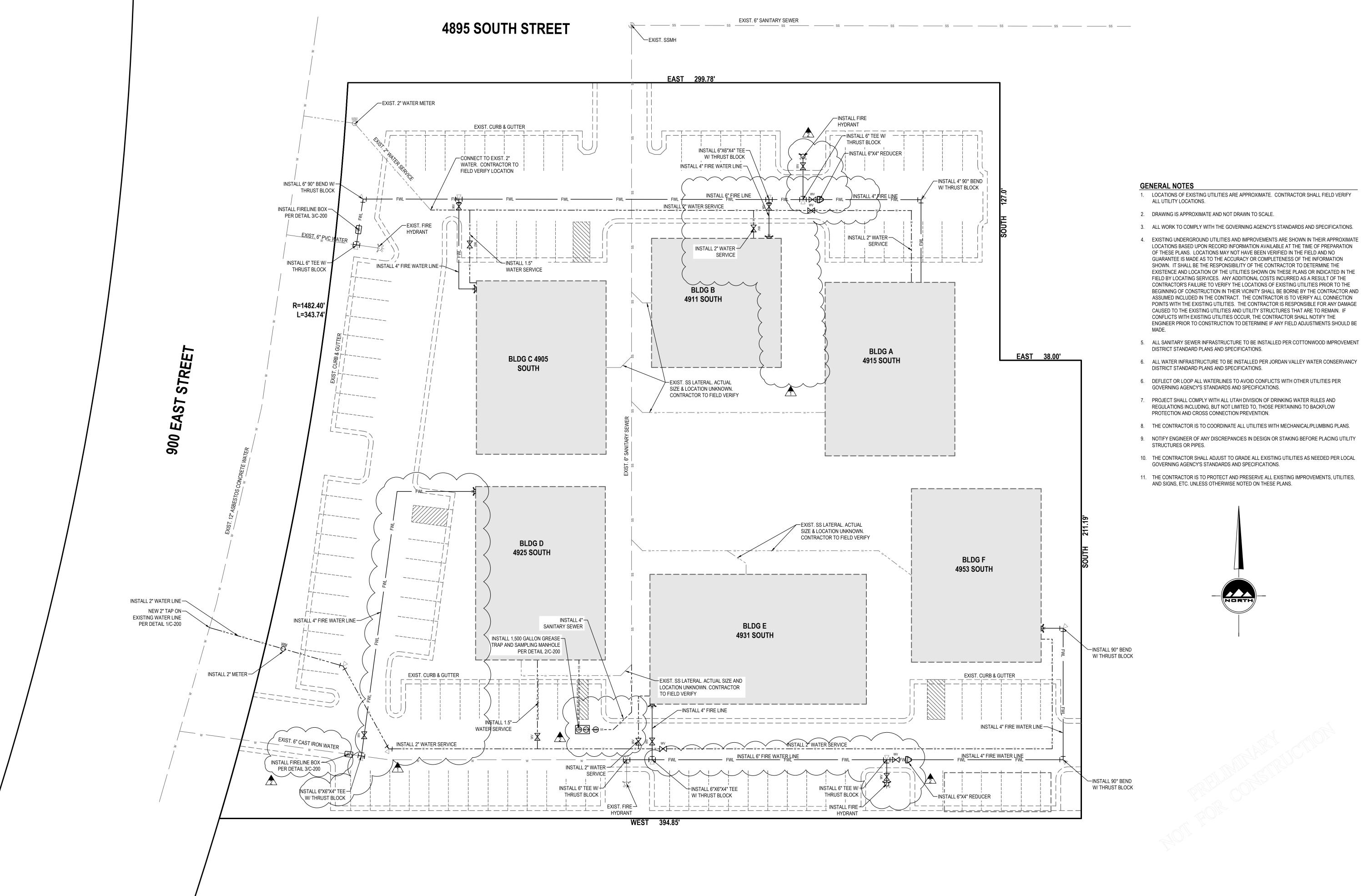
JANUARY 17, 2017

drawn by: checked by:

project no:

sheet

SPECIFICATIONS





SALT LAKE CITY 45 W. 10000 S., Suite 500 Sandy, UT 84070 Phone: 801.255.0529

Phone: 801.547.1100 TOOELE Phone: 435.843.3590 CEDAR CITY Phone: 435.865.1453 RICHFIELD

Phone: 435.896.2983

LAYTON

WWW.ENSIGNENG.COM

COUNTY

AK

2

Ш

R

BRIGHTON

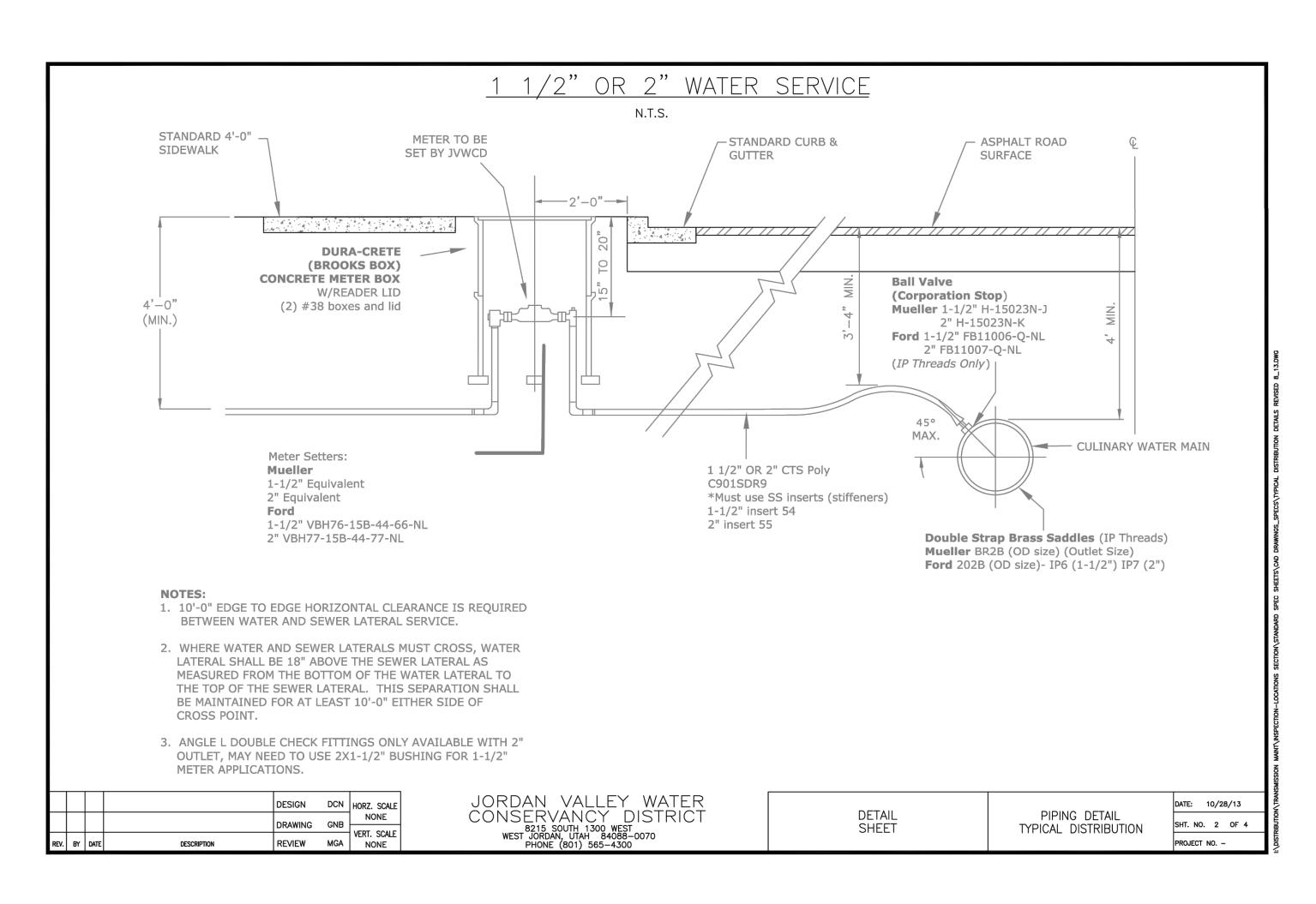


1 01/20/2017 WATER LINE CHANGES 2 2/13/2017 WATER/SEWER CHANGES MSB

UTILITY PLAN

M. BUDGE

D. JENKINS

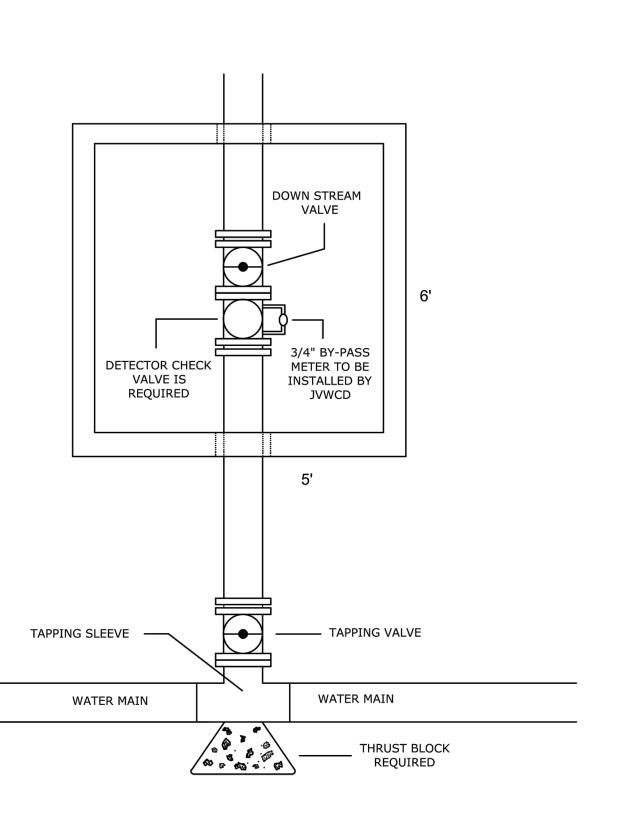


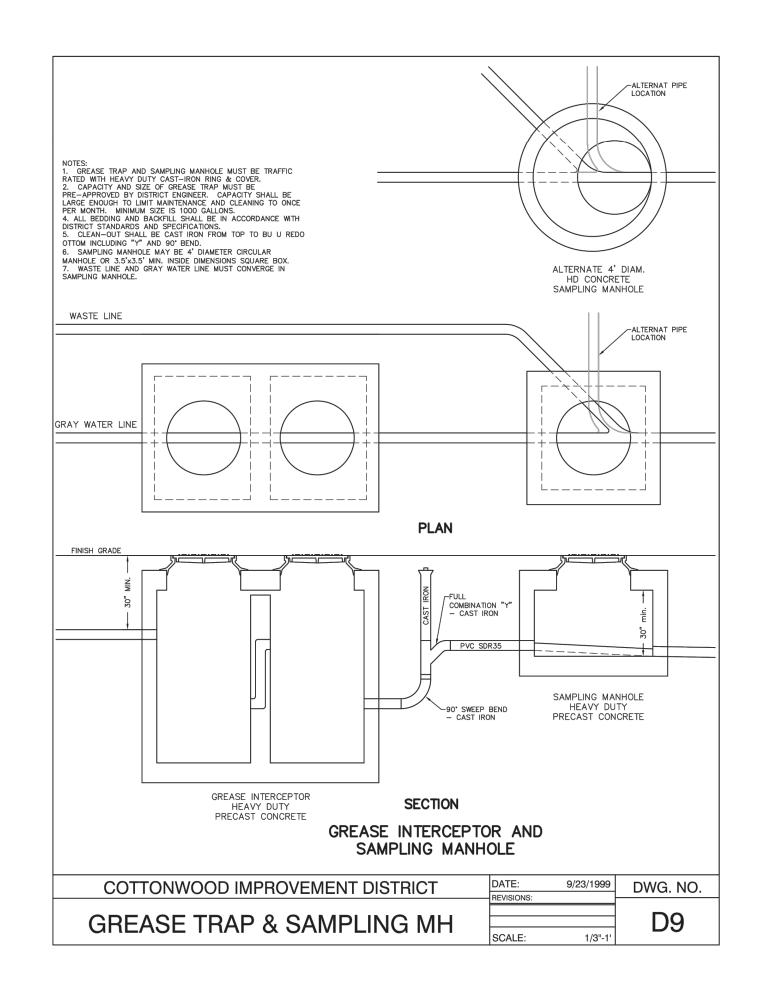


GENERAL NOTES

- All taps are to be hot-tapped only. No hot taps will be allowed on Friday. A minimum of 24 hours notice is required prior to the tap.
- A down stream valve is required inside the fireline box.
 The tapping valve can be used as the unstream
- 3. The tapping valve can be used as the upstream valve.4. The tapping valve must have a slip type valve
- box and must be set to finish grade.

 5. Floor must have a minimum of 6" of gravel
- spread evenly throughout.6. All knock-outs for pipe coming into and going out of the box must be cement grouted once
- pipe is in place.7. All bolts & nuts upstream of the box must be greased and wrapped. All bolts will be coated with an acceptable thread lubricant prior to
- installation.8. Standard size 24" ring and lid is required for vault entrance.
- Typical fireline vault is to be a minimum of 5'x6'
 o.d. in size with gravel bottom.
- A 14-guage underground rated locating wire must be laid with the pipe if using C-900.





GREASE TRAP & SAMPLING MANHOLE

SCALE: NONE



SALT LAKE CITY 45 W. 10000 S., Suite 500 Sandy, UT 84070 Phone: 801.255.0529

LAYTON
Phone: 801.547.1100

TOOELE
Phone: 435.843.3590

CEDAR CITY
Phone: 435.865.1453

RICHFIELD
Phone: 435.896.2983

WWW.ENSIGNENG.COM

CONTACT:
PHONE:

BRIGHTON RECOVERY CENTER
4895 S 900 E

PROFESSION 2/13/2017 25936
DAVID A. TENKINS

NO. DATE REVISION BY
1 01/20/2017 WATER LINE CHANGES MSE
2 ADDENDUM #6
3
4
5

DETAILS

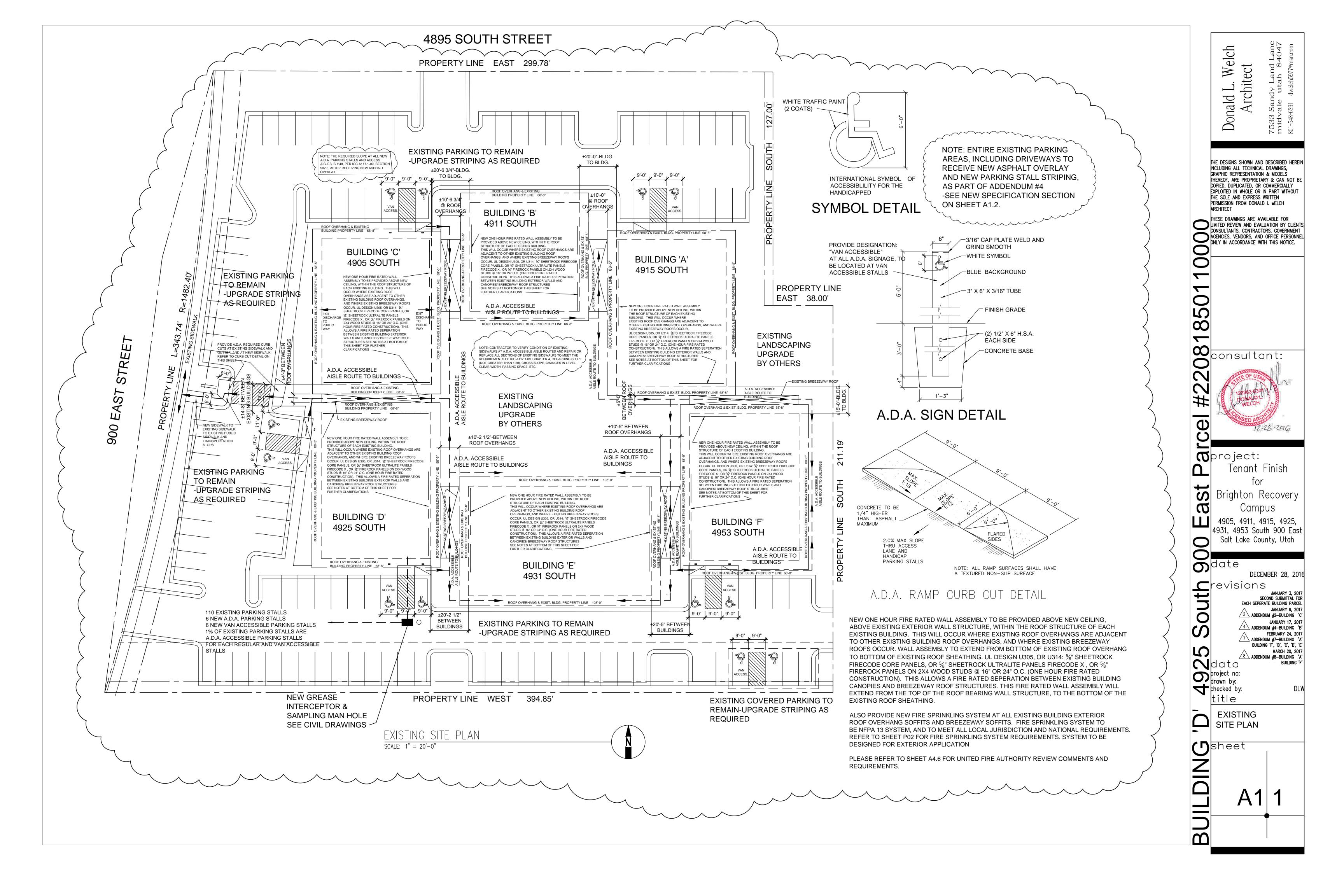
PROJECT MANAGER

PROJECT NUMBER PRINT DATE
7227 2/13/17

DRAWN BY CHECKED BY
M. BUDGE

D. JENKINS

TYPICAL FIRELINE BOX DETAIL



ASPHALT PAVING SPECIFICATIONS

PART 1 - GENERAL

1.1 SUMMARY

Section Includes:

Hot-mix asphalt paving overlay.

2. Pavement-marking paint.

PROJECT CONDITIONS

- Environmental Limitations: Do not apply asphalt materials if subgrade is wet or excessively damp, if rain is imminent or expected before time required for adequate cure, or if the following conditions are not met:
- 1. Asphalt Surface Course: Minimum surface temperature of 60 deg F (15.6 deg C) at time
- B. Pavement-Marking Paint: Proceed with pavement marking only on clean, dry surfaces and at a minimum ambient or surface temperature of [40 deg F (4.4 deg C) for oil-based materials] [55] deg F (12.8 deg C) for water-based materials], and not exceeding 95 deg F (35 deg C).

PART 2 - PRODUCTS

AGGREGATES

- A. Coarse Aggregate: ASTM D 692, sound; angular crushed stone, crushed gravel, or cured, crushed blast-furnace slag.
- B. Fine Aggregate: [ASTM D 1073] [or] [AASHTO M 29], sharp-edged natural sand or sand prepared from stone, gravel, cured blast-furnace slag, or combinations thereof.
- Mineral Filler: [ASTM D 242] [or] [AASHTO M 17], rock or slag dust, hydraulic cement, or other inert material.

ASPHALT MATERIALS

- A. Asphalt Binder: AASHTO M 320 or AASHTO MP 1a, [PG 70-22]
- Tack Coat: [ASTM D 977] [or] [AASHTO M 140] emulsified asphalt, or [ASTM D 2397] [or] [AASHTO M 208] cationic emulsified asphalt, slow setting, diluted in water, of suitable grade and consistency for application.

AUXILIARY MATERIALS

- A. Pavement-Marking Paint: MPI #32 Alkyd Traffic Marking Paint.
 - 1. Color: [Yellow].

MIXES

- Hot-Mix Asphalt: Dense, hot-laid, hot-mix asphalt plant mixes approved by authorities having jurisdiction[; designed according to procedures in AI MS-2, "Mix Design Methods for Asphalt Concrete and Other Hot-Mix Types"; and complying with the following requirements:
 - 1. Provide mixes with a history of satisfactory performance in geographical area where

PART 3 - EXECUTION

EXAMINATION

A. Proceed with paving only after unsatisfactory conditions have been corrected.

COLD MILLING

- Clean existing pavement surface of loose and deleterious material immediately before cold milling. Remove existing asphalt pavement by cold milling to grades and cross sections
 - 1. Mill to a depth of [1-1/2 inches (38 mm)]

PATCHING

- Hot-Mix Asphalt Pavement: Saw cut perimeter of patch and excavate existing pavement section to sound base. Excavate rectangular or trapezoidal patches, extending 12 inches (300 mm) into adjacent sound pavement, unless otherwise indicated. Cut excavation faces vertically. Remove excavated material. Recompact existing unbound-aggregate base course to form new subgrade.
- B. Tack Coat: Apply uniformly to vertical surfaces abutting or projecting into new, hot-mix asphalt paving at a rate of 0.05 to 0.15 gal./sq. yd. (0.2 to 0.7 L/sq. m).
 - Allow tack coat to cure undisturbed before applying hot-mix asphalt paving. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.
- C. Patching: Fill excavated pavements with hot-mix asphalt base mix for full thickness of patch and, while still hot, compact flush with adjacent surface.

SURFACE PREPARATION

- A. General: Immediately before placing asphalt materials, remove loose and deleterious material from substrate surfaces. Ensure that prepared subgrade is ready to receive paving.
- B. Tack Coat: Apply uniformly to surfaces of existing pavement at a rate of 0.05 to 0.15 gal./sq. yd. (0.2 to 0.7 L/sq. m).
 - Allow tack coat to cure undisturbed before applying hot-mix asphalt paving.
 - Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.

HOT-MIX ASPHALT PLACING

tears in asphalt-paving mat.

- A. Machine place hot-mix asphalt on prepared surface, spread uniformly, and strike off. Place asphalt mix by hand to areas inaccessible to equipment in a manner that prevents segregation of mix. Place each course to required grade, cross section, and thickness when compacted.
 - Spread mix at minimum temperature of 250 deg F (121 deg C). Regulate paver machine speed to obtain smooth, continuous surface free of pulls and
- B. Place paving in consecutive strips not less than 10 feet (3 m) wide unless infill edge strips of a lesser width are required.
- Promptly correct surface irregularities in paving course behind paver. Use suitable hand tools to remove excess material forming high spots. Fill depressions with hot-mix asphalt to prevent segregation of mix; use suitable hand tools to smooth surface.

3.6 **JOINTS**

- A. Construct joints to ensure a continuous bond between adjoining paving sections. Construct joints free of depressions, with same texture and smoothness as other sections of hot-mix asphalt course.
- Clean contact surfaces and apply tack coat to joints.
- Offset longitudinal joints, in successive courses, a minimum of 6 inches (150 mm). Offset transverse joints, in successive courses, a minimum of 24 inches (600 mm).
- Construct transverse joints at each point where paver ends a day's work and resumes work at a subsequent time. Construct these joints using either "bulkhead" or "papered" method according to AI MS-22, for both "Ending a Lane" and "Resumption of Paving Operations."

COMPACTION

- A. General: Begin compaction as soon as placed hot-mix paving will bear roller weight without excessive displacement. Compact hot-mix paving with hot, hand tampers or with vibratoryplate compactors in areas inaccessible to rollers.
- 1. Complete compaction before mix temperature cools to 185 deg F (85 deg C).
- Breakdown Rolling: Complete breakdown or initial rolling immediately after rolling joints and outside edge. Examine surface immediately after breakdown rolling for indicated crown, grade, and smoothness. Correct laydown and rolling operations to comply with requirements.
- Intermediate Rolling: Begin intermediate rolling immediately after breakdown rolling while hot-mix asphalt is still hot enough to achieve specified density. Continue rolling until hot-mix asphalt course has been uniformly compacted to the following density:
- 1. Average Density: 92 percent of reference maximum theoretical density according to ASTM D 2041, but not less than 90 percent nor greater than 96 percent.
- D. Finish Rolling: Finish roll paved surfaces to remove roller marks while hot-mix asphalt is still
- E. Edge Shaping: While surface is being compacted and finished, trim edges of pavement to proper alignment. Bevel edges while asphalt is still hot; compact thoroughly.
- F. Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled
- G. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked.

INSTALLATION TOLERANCES

- A. Pavement Thickness: Compact each course to produce the thickness indicated within the
 - Base Course: Plus or minus 1/2 inch (13 mm). Surface Course: Plus 1/4 inch (6 mm), no minus.

3.9 PAVEMENT MARKING

- A. Do not apply pavement-marking paint until layout, colors, and placement have been verified
- B. Allow paving to age for [30] days before starting pavement marking.
- C. Sweep and clean surface to eliminate loose material and dust.
- D. Apply paint with mechanical equipment to produce pavement markings, of dimensions indicated, with uniform, straight edges. Apply at manufacturer's recommended rates to provide a minimum wet film thickness of 15 mils (0.4 mm).
 - 1. Broadcast glass beads uniformly into wet pavement markings at a rate of 6 lb/gal. (0.72)

3.10 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.
- B. Replace and compact hot-mix asphalt where core tests were taken.
- Remove and replace or install additional hot-mix asphalt where test results or measurements indicate that it does not comply with specified requirements.

3.11 DISPOSAL

A. Except for material indicated to be recycled, remove excavated materials from Project site and legally dispose of them in an EPA-approved landfill.

CLARIFICATION NOTES FOR ALL 6 BUILDINGS (ADDENDUM #4):

- 1 COMMERCIAL KITCHEN EQUIPMENT WILL BE SUPPLIED AND INSTALLED BY "STANDARD RESTAURANT SUPPLY". MR. TERRILL ROE. THEY WILL BE PROVIDING AND INSTALLING ALL OF THE EQUIPMENT, INCLUDING THE HOOD VENTILATION SYSTEMS. THEY WILL ALSO CONNECT TO THE GAS, ELECTRICAL AND PLUMBING WHERE TERMINATED AT THE WALLS, FLOOR AND CEILING, BY OTHER SUBCONTRACTOR WORK.
- 2 THE OWNER SHALL PROVIDE ALL TELEVISION SETS, LOCATED IN THE COMMON AREAS OF THE RESIDENTIAL AREAS. AND THE COMMUNITY CENTER
- THE CONTRACTOR SHALL PROVIDE AND INSTALL THE SUPPORT AND BLOCKING, AT THE WALLS WHERE THE TELEVISIONS WILL BE INSTALLED.
- 3 CONTRACTOR IS TO PROVIDE AN ALLOWANCE, IN THEIR BID, FOR PROVIDING AND INSTALLING THE RESIDENTIAL KITCHEN EQUIPMENT IN EACH OF THE RESIDENTIAL COMMON AREAS. PROVIDE AN ALLOWANCE FOR "MAYTAG" OR "GENERAL ELECTRIC" APPLIANCES, OR APPROVED EQUIVALENT.
- 4 CONTRACTOR IS TO PROVIDE AN ALLOWANCE, IN THEIR BID, INCLUDING A DESIGN FEE, FOR THE BASE AND WALL CABINETS THROUGHOUT THE ENTIRE 6 BUILDINGS. CABINETS TO BE GRADE 1, MAPLE CABINET DOORS AND DRAWERS, WITH GRADE 1 STAIN FINISH. WHITE MELAMINE FACED INTERIOR CABINET DOORS, SHELVES AND DRAWERS. CABINET HARDWARE TO BE "AMEROCK" CABINET HARDWARE OR EQUIVALENT. COUNTER TOPS TO BE GRANITE OR STONE, GRADE 1.
- THE FOLLOWING ROOMS SHALL HAVE BASE CABINETS ONLY, OR BASE AND WALL CABINETS,, WITH MIXED CABINETS AND DRAWERS:
- RESIDENT LAUNDRY A101 (BASE CABINET ONLY) B - KITCHEN A115 (BASE AND WALL CABINETS, WALL CABINETS NOT SHOWN ON ORIGINAL SUBMITTAL SETS, DELETE CROWN MOLDING AT WALL CABINETS)
- C RESIDENT LAUNDRY A127 (BASE CABINET ONLY) D - KITCHEN A132 (BASE AND WALL CABINETS, WALL CABINETS NOT SHOWN ON ORIGINAL SUBMITTAL SETS, DELETE CROWN MOLDING AT WALL CABINETS)
- E RESIDENT LAUNDRY B101 (BASE CABINET ONLY)
- F KITCHEN B115 (BASE AND WALL CABINETS, WALL CABINETS NOT SHOWN ON ORIGINAL SUBMITTAL SETS, DELETE CROWN MOLDING AT WALL CABINETS)
- G RESIDENT LAUNDRY B125 (BASE CABINET ONLY) H - KITCHEN B129 (BASE AND WALL CABINETS, WALL CABINETS NOT SHOWN ON ORIGINAL SUBMITTAL SETS, DELETE CROWN MOLDING AT WALL CABINETS)
- I LAB C111 (BASE AND WALL CABINETS, WITH LOCKS ON BOTH CABINETS AND DRAWERS, WALL CABINETS NOT SHOWN ON ORIGINAL SUBMITTAL SETS, DELETE CROWN MOLDING AT WALL CABINETS).
- J- MEDS C112 (BASE AND WALL CABINETS, WITH LOCKS ON BOTH CABINETS AND DRAWERS, DELETE CROWN MOLDING AT WALL CABINETS). K - STAFF BREAK ROOM C113 (BASE AND WALL CABINETS, DELETE CROWN MOLDING AT
- WALL CABINETS) L - RECEPTION C122 (BASE CABINET WITH RETURN: RECEPTION COUNTER W/ LOWER A.D.A. COUNTER)
- M BREAK AREA C129 (BASE AND WALL CABINETS, DELETE CROWN MOLDING AT WALL
- N REAR WALL OF RECEPTION/OFFICE D109 (BACK WALL TO HAVE BASE CABINET ONLY;/ FRONT OF RECEPTION AREA TO HAVE BASE CABINET WITH RECEPTION COUNTER AND LOWER A.D.A. COUNTER.
- 0 WARMING KITCHEN D101 (COUNTERTOP ONLY)
- P SERWING D104 (BASE CABINET)
- Q WORKOUT ROOM D113 (WALNUT CUBICLES W/ MELAMINE INTERIOR FINISH)
- R YOGA STUDIO D114 (WALNUT CUBICLES W/ MELAMINE INTERIOR FINISH) S - MALE EMPLOYEE LOCKER ROOM D115 (WALNUT FACED LOCKER DOORS WITH PADLOCK HARDWARE, SHELF AND DOUBLE HOOK; MELAMINE INTERIOR FINISH)
- T FEMALE EMPLOYEE LOCKER ROOM D115A (WALNUT FACED LOCKER DOORS WITH PADLOCK HARDWARE, 1 SHELK AND DOUBLE HOOK; MELAMINE INTERIOR FINISH) U - DINING D103 (CURVED EATING BENCH AND HALF WALL-BENCH TO MATCH DINING
- FURNITURE SUPPLIED BY OTHERS)
- V RESIDENT LAUNDRY E101 (BASE CARINET ONLY)
- W KITCHEN E115 (BASE AND WALL CABINETS, WALL CABINETS NOT SHOWN ON ORIGINAL SUBMITTAL SETS; DELETE CROWN MOLDING AT WALL CABINETS) X - RESIDENT LAUNDRY E127 (BASE CABINET ONLY)
- Y KITCHEN E132 (BASE AND WALL CABINETS, WALL CABINETS NOT SHOWN ON ORIGINAL SUBMITTAL SETS, DELETE CROWN MOLDING AT WALL CABINETS) Z - SERVING CENTER E140 BASE CABINET ONLY)
- AA RESIDENT LAUNDRY F101 (BASE CABINET ONLY) BB - KITCHEN F115 BASE AND WALL CABINETS, WALL CABINETS NOT SHOWN ON ORIGINAL
- CC RESIDENT LAUNDRY F127 (BASE CABINET ONLY) DD - KITCHEN F132 (BASE AND WALL CABINETS, WALL CABINETS NOT SHOWN ON ORIGINAL SUBMITTAL SETS, DELETE CROWN MOLDING AT WALL CABINETS)

SUBMITTAL SETS DELETE CROWN MOLDING AT WALL CABINTES)

5 - ALL RESIDENTIAL BATHROOM COUNTERTOPS TO BE GRANITE OR STONE; PROVIDE ANGLED METAL BRACING WHERE GREATER THAN 3' WIDE, WITH A.D.A. PROTECTION ON

6 - ALL PUBLIC RESTROOM COUNTERTOPS TO BE GRANITE OR STOONE; PROVIDE ANGLED METAL BRACING WHERE GREATER THAN 3'-O" WIDE. WITH A.D.A. PROTECTION ON BRACING. 7 - ALL INTERIOR DOOR FRAME CASEWORK TO BE STANDARD PAINT-GRADE, $^3\!\!\!/$ " X 3" TRIM SURROUND, EACH SIDE (UNLESS OTHERWISE DIRECTED BY OWNER).

8 - ALL ROOMS, i.e.: LINEN CLOSETS, STORAGE ROOMS, PANTRY, ETC., THROUGHOUT ALL 6 BUILDINGS TO HAVE 3/4" PLYWOOD OR PARTICLE BOARD SHELVING WITH MELAMINE FINISH TOP AND BOTTOM, AND EDGE. PROVIDE MINIMUM 6 SHELVES IN EACH ROOM. BRACE SHELVES AS REQUIRED FOR STURDY SUPPORT.

9 - PROVIDE SOUND ATTENUATION INSULATION AT ALL RESIDENTIAL PARTY WALLS. AT MUSIC ROOM D117 (AS NOTED), AT PARTY WALL AT GATHERING/LEARNING AREA E136 (AS NOTED), AND AT PARTY WALLS SEPARATING RESIDENTIAL AREAS, BETWEEN KITCHENS AND COMMON AREAS.

10 - ALL INTERIOR DOORS TO BE SOLID CORE WALNUT DOORS WITH STAINED FINISH. DOORS WITH MACHINED, AND KNOCK DOWN FRAMES ARE ACCEPTIBLE.

11 - ALL WOOD BASE TO BE 1X4 MAPLE W/ RADIUSED TOP EDGE, OR APPROVED EQUIVALENT.

12 - CARPET TO BE AS MANUFACTURED BY "TUFTEX CARPET" OR EQUIVALENT, R2X STAIN AND SOIL RESISTANCE, ANSO NYLON. PROVIDE SAMPLES FOR APPROVAL BY OWNER.

13 - PROVIDE FRP (FIBERGLASS REINFORCED PLASTIC) PANEL SURROUND IN JANITOR'S CLOSETS, IN LIEU OF CERAMIC TILE NOTED.

14 - DELETE "MARBLE" TILE FROM SPECIFICATION. TILE WILL BE EITHER CERAMIC OR QUARRY TILE AS NOTED. DALTILE OR EQUIVALENT. PLEASE SUBMIT SAMPLES FOR OWNER APPROVAL

- 15 TILE BACKSPLASH TO OCCUR WHEREVER A SINK OCCURS AT COUNTERTOPS. PROVIDE 4" HIGH CERAMIC TILE BACKSPLASH, DALTILE OR EQUIVALENT. PROVIDE SAMPLES FOR OWNER'S APPROVAL.
- 16 INTERIOR AND EXTERIOR SIGNAGE TO BE A SEPERATE BID PACKAGE PER OWNER. CONTRACTOR MAY PROVIDE AN ALLOWANCE FOR INTERIOR AND EXTERIOR SIGNAGE.
- 17 FIRE EXTINGUISHERS AND CABINETS TO BE PROVIDED AND INSTALLED BY CONTRACTOR.
- 18 ALL FURNISHINGS, i.e.: DINING AREA TABLES AND CHAIRS, POOL TABLES, WORK OUT EQUIPMENT, ETC., TO BE PROVIDED BY EITHER OWNER, OR BY KITCHEN EQUIPMENT
- 19 PLEASE NOTE THAT ALL BIDS TO BE SUBMITTED TO OWNER BY END OF WORK DAY, ON MONDAY, JANUARY 23, 2017. PLEASE SUBMIT TO OWNER'S OFFICE, LOCATED AT 5200 SOUTH HIGHLAND DRIVE, SUITE 210.

MECHANICAL DUCT CLARIFICATION:

INSTALL RIGID DUCTWORK THROUGHOUT THE PLENUM SPACE WITH MINIMAL DUCTWORK TRANSITIONS/FITTINGS, TO ALLOW FOR MAXIMUM AIRFLOW.

INSULATE ALL SUPPLY AND RETURN DUCTWORK WITH R-VALUE (R-12 MIN.), AS INDICATED IN MECHANICAL PLAN VIEW GENERAL NOTES.

A FLEXIBLE CONNECTION IS TO BE PROVIDED ON ALL MAIN SUPPLY AND RETURN AIR RUNS TO MINIMIZE VIBRATION FROM ASSOCIATED RTU.

PLUMBING CLARIFICATION:

SHOWER VALVES TO BE "KOHLER", SINGLE HANDLE, OR EQUIVALENT AS APPROVED BY



Welch ect Donald

HE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS. GRAPHIC REPRESENTATION & MODELS THEREOF, ARE PROPRIETARY & CAN NOT BE COPIED, DUPLICATED, OR COMMERCIALLY EXPLOITED IN WHOLE OR IN PART WITHOUT HE SOLE AND EXPRESS WRITTEN PERMISSION FROM DONALD I. WELCH

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.

00

T

—

5

 ∞

 \cap

consultant: #2

> project: Tenant Finish

12-28-2016

DECEMBER 28, 2016

MARCH 20, 2017

Brighton Recovery a

4905, 4911, 4915, 4925, 4931, 4953 South 900 East Salt Lake County, Utah

date

revisions

SECON
EACH SEPERATE

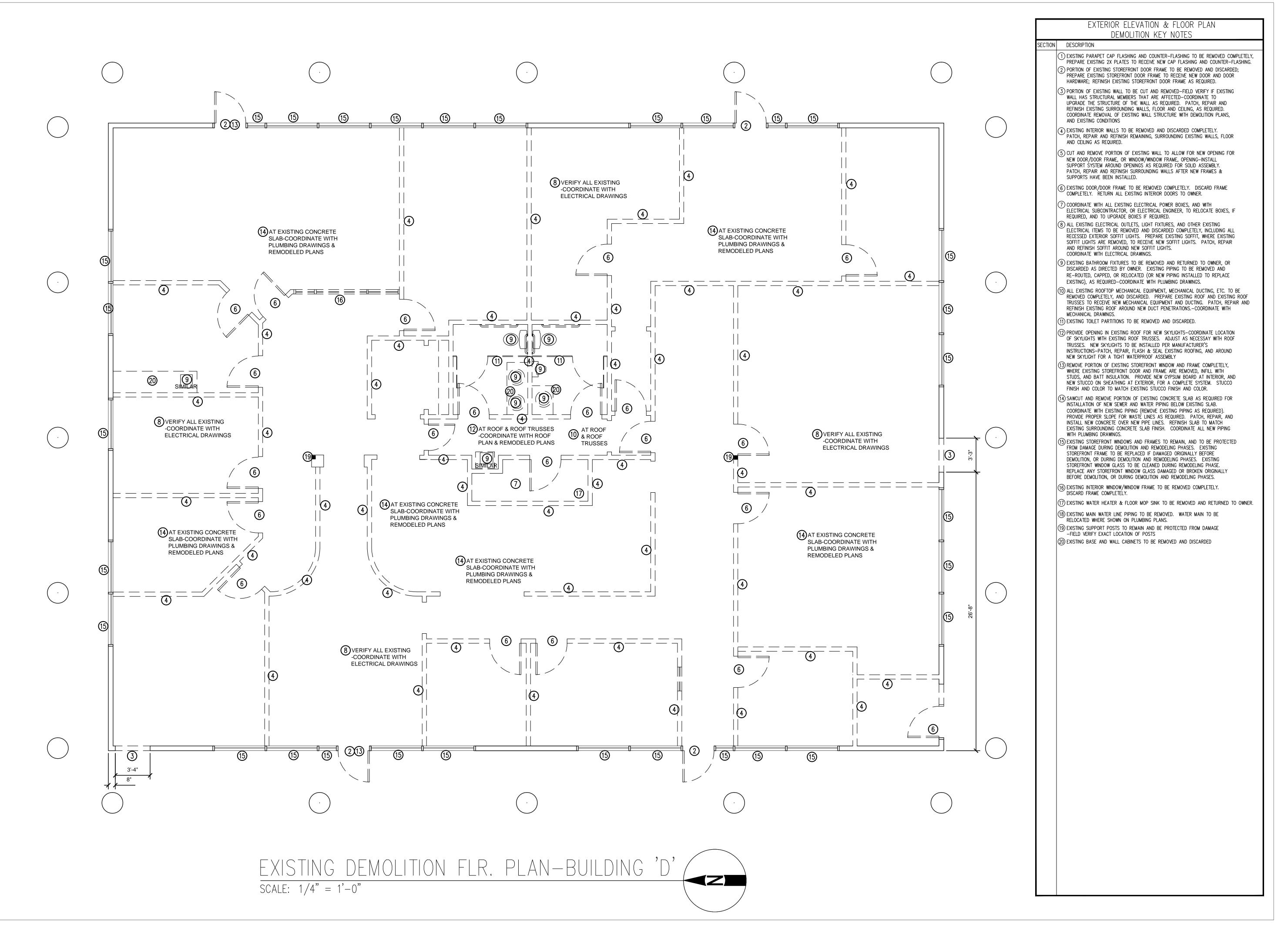
2 ADDENDUM JANUARY 3, 2017 SECOND SUBMITTAL FOR EACH SEPERATE BUILDING PARCEL **JANUARY 6, 2017** 2 ADDENDUM #2-BUILDING 'C' JANUARY 17, 2017 ADDENDUM #4-BUILDING 'B' FEBRUARY 24, 2017 ADDENDUM #7-BUILDING 'A' BUILDING 'F', 'B', 'C', 'D', 'E'

8 ADDENDUM #8-BUILDING 'A' data project no: drawn by: checked by:

title PARKING LOT RE-PAVING **SPECIFICATIONS** AND GENERAL

Z

CLARIFICATION NOTES sheet A1 2



Welch

Donald

Architect
Sandy Land Lane
ale utah 84047

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC 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 I. WELCH

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:



roject: Tenant Finish

Brighton Recovery Campus

4905, 4911, 4915, 4925, 4931, 4953 South 900 East Salt Lake County, Utah

date

DECEMBER 28, 2016 revisions

JANUARY 3, 2017
SECOND SUBMITTAL FOR
EACH SEPERATE BUILDING PARCEL

JANUARY 6, 2017

ADDENDUM #2-BUILDING 'C'

JANUARY 17, 2017

ADDENDUM #4-BUILDING 'B'
FEBRUARY 24, 2017

ADDENDUM #7-BUILDING 'A'
BUILDING 'F', 'B', 'C', 'D', 'E'

MARCH 20, 2017

ADDENDUM #8-BUILDING 'A'
BUILDING 'F'
project no:
drawn by:
checked by:

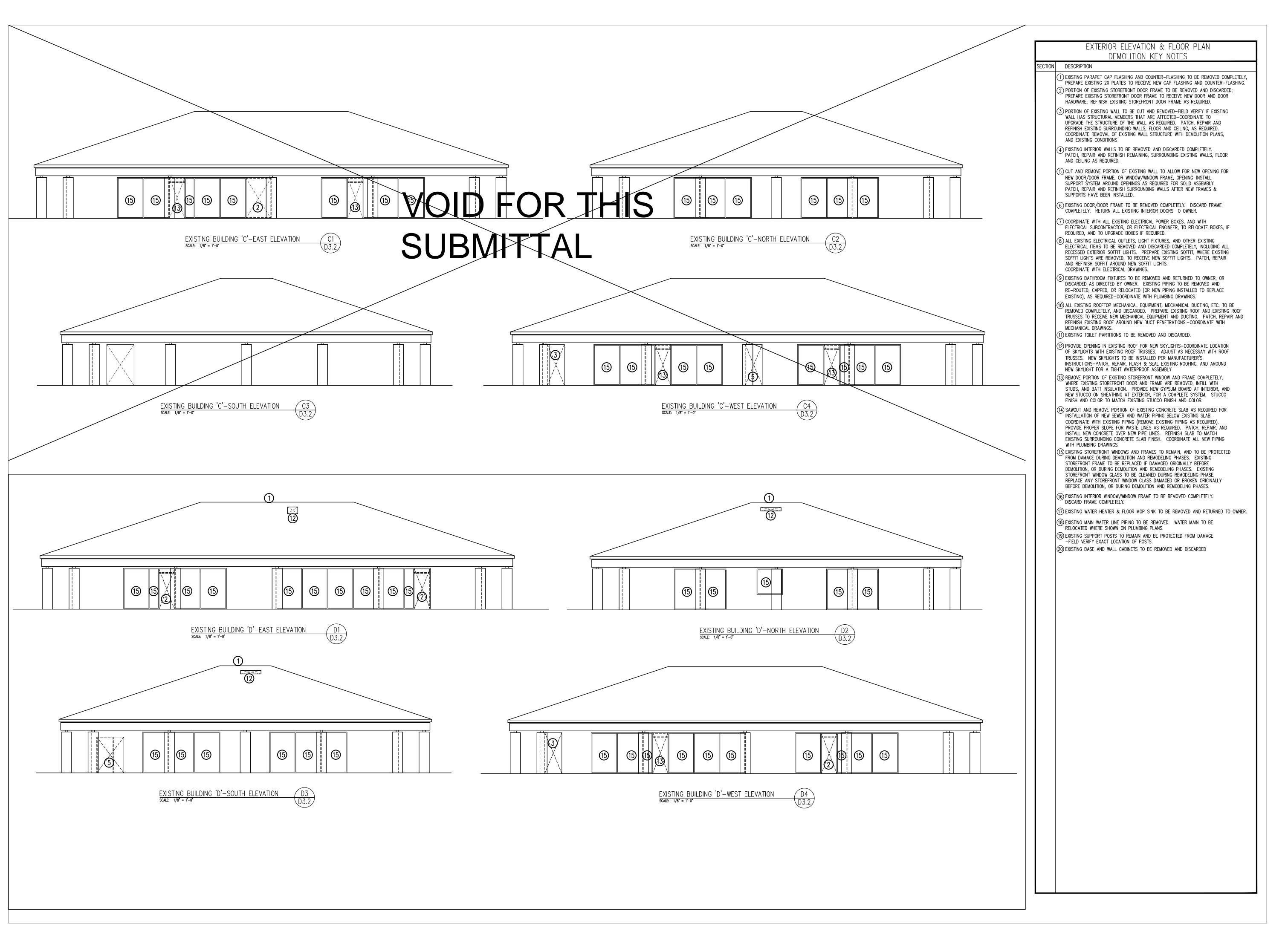
DLV

title
BUILDING 'D'
EXISTING

DEMOLITION PLAN

sheet

D2 4



Welch

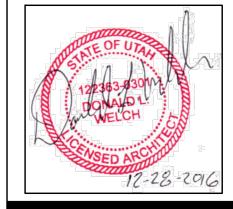
Donald

7533 Sandy Land Lane midvale utah 84047 801-548-6391 dwelch5977®msn.com Architect

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC 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 1. WELCH

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: Tenant Finish

Brighton Recovery Campus

4905, 4911, 4915, 4925, 4931, 4953 South 900 East Salt Lake County, Utah

date

DECEMBER 28, 2016

revisions

JANUARY 3, 2017 SECOND SUBMITTAL FOR EACH SEPERATE BUILDING PARCEL JANUARY 6, 2017 2 ADDENDUM #2-BUILDING 'C JANUARY 17, 2017 ADDENDUM #4-BUILDING 'B'

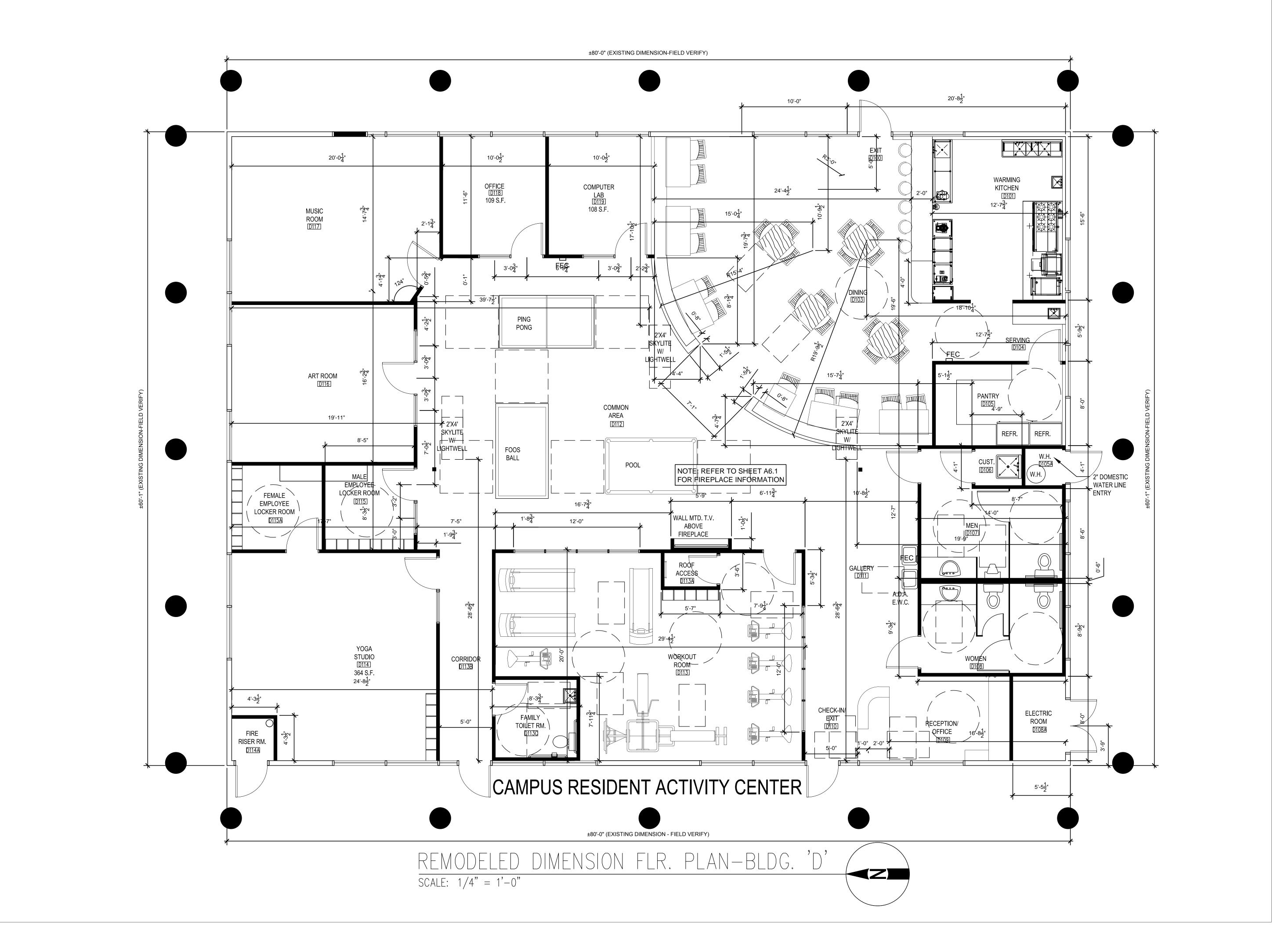
FEBRUARY 24, 2017
ADDENDUM #7-BUILDING 'A'
BUILDING 'F', 'B', 'C', 'D', 'E'
MARCH 20, 2017
ADDENDUM #8-BUILDING 'A'
PULL DINC 'E'

project no: drawn by: checked by:

title BUILDINGS 'C' & 'D' EXISTING/DEMOLITION **ELEVATIONS**

sheet

D3 2

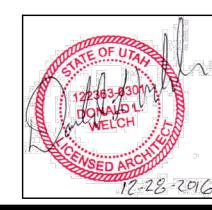


Welch Donald L.

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC 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 I. WELCH

THESE DRAWINGS ARE AVAILABLE FOR LIMITED REVIEW AND EVALUATION BY CLIENTS, CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNEL ONLY IN ACCORDANCE WITH THIS NOTICE.

consultant:



project: Tenant Finish for Brighton Recovery Campus

4905, 4911, 4915, 4925, 4931, 4953 South 900 East Salt Lake County, Utah

date

DECEMBER 28, 2016 revisions

JANUARY 3, 2017
SECOND SUBMITTAL FOR
EACH SEPERATE BUILDING PARCEL

JANUARY 6, 2017
ADDENDUM #2-BUILDING 'C'

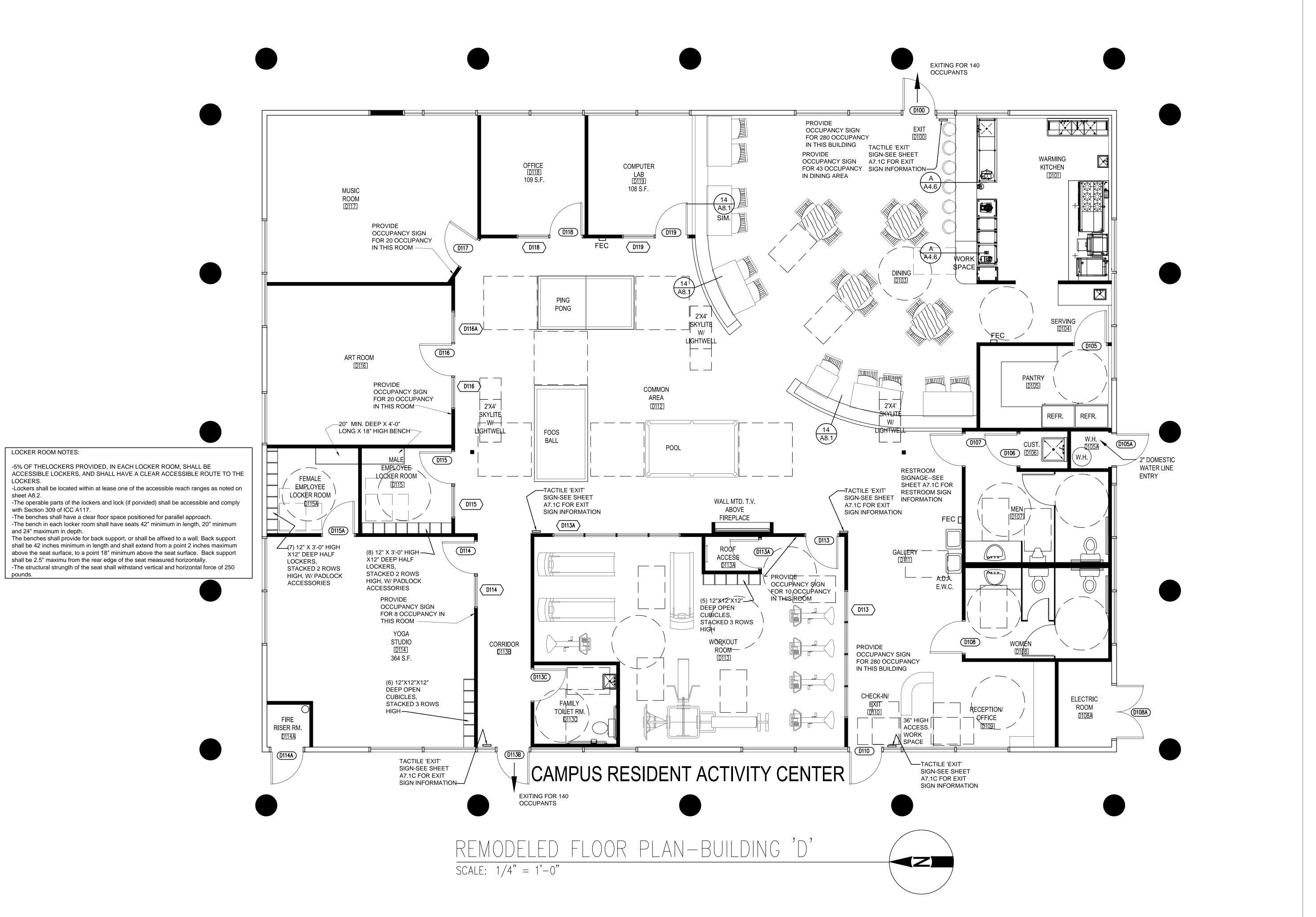
JANUARY 17, 2017
ADDENDUM #4-BUILDING 'B'
FEBRUARY 24, 2017
ADDENDUM #7-BUILDING 'A'
BUILDING 'F', 'B', 'C', 'D', 'E'
MARCH 20, 2017
ADDENDUM #8-BUILDING 'A'
BUILDING 'F'
BUILDING 'F'

data
project no:
drawn by:
checked by: title

BUILDING 'D' REMODELED FLOOR PLAN

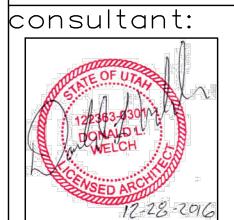
sheet

A2 4



THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC 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 I. 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.

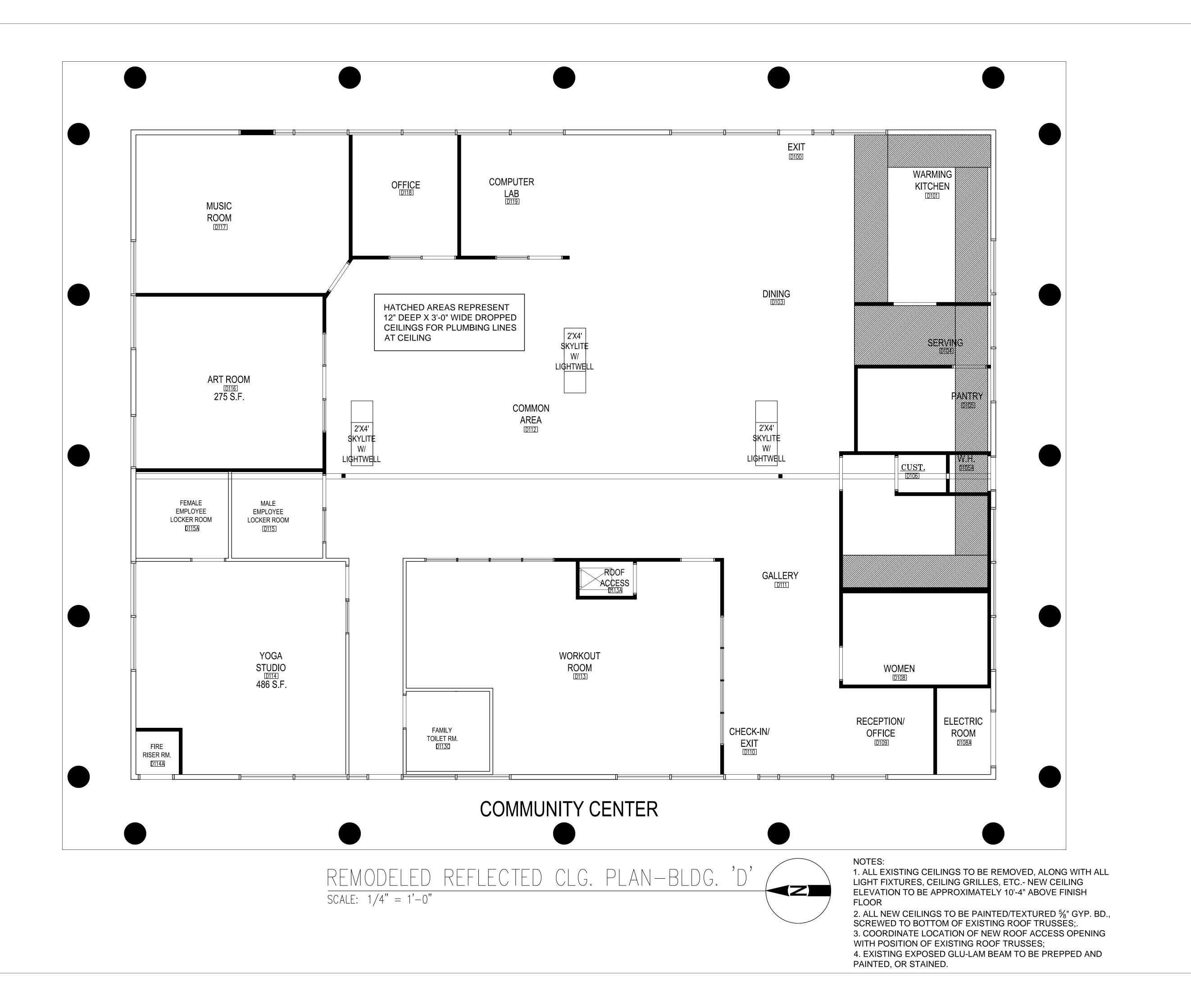


Tenant Finish
for
Brighton Recovery
Campus

4905, 4911, 4915, 4925, 4931, 4953 South 900 East Salt Lake County, Utah

date DECEMBER 28, 2016 revisions JANUARY 3, 2017 SECOND SUBMITTAL FOR EACH SEPERATE BUILDING PARCEL JANUARY 6, 2017 2 ADDENDUM #2-BUILDING 'C' JANUARY 17, 2017 ADDENDUM #4-BUILDING 'B' FEBRUARY 24, 2017
ADDENDUM #7-BUILDING 'A' BUILDING 'F", 'B', 'C', 'D', 'E' MARCH 20, 2017 ADDENDUM #8-BUILDING 'A' project no: drawn by: checked by: title BUILDING 'D' REMODELED FLOOR PLAN sheet

A2 4A

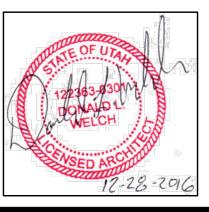


Donald L. Welch

NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC 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 I. WELCH

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: Tenant Finish

Brighton Recovery Campus

4905, 4911, 4915, 4925, 4931, 4953 South 900 East Salt Lake County, Utah

date

DECEMBER 28, 2016 revisions

JANUARY 3, 2017 SECOND SUBMITTAL FOR EACH SEPERATE BUILDING PARCEL

JANUARY 6, 2017

ADDENDUM #2-BUILDING 'C' JANUARY 17, 2017

ADDENDUM #4-BUILDING 'B'
FEBRUARY 24, 2017
ADDENDUM #7-BUILDING 'A'
BUILDING 'F', 'B', 'C', 'D', 'E'

MARCH 20, 2017

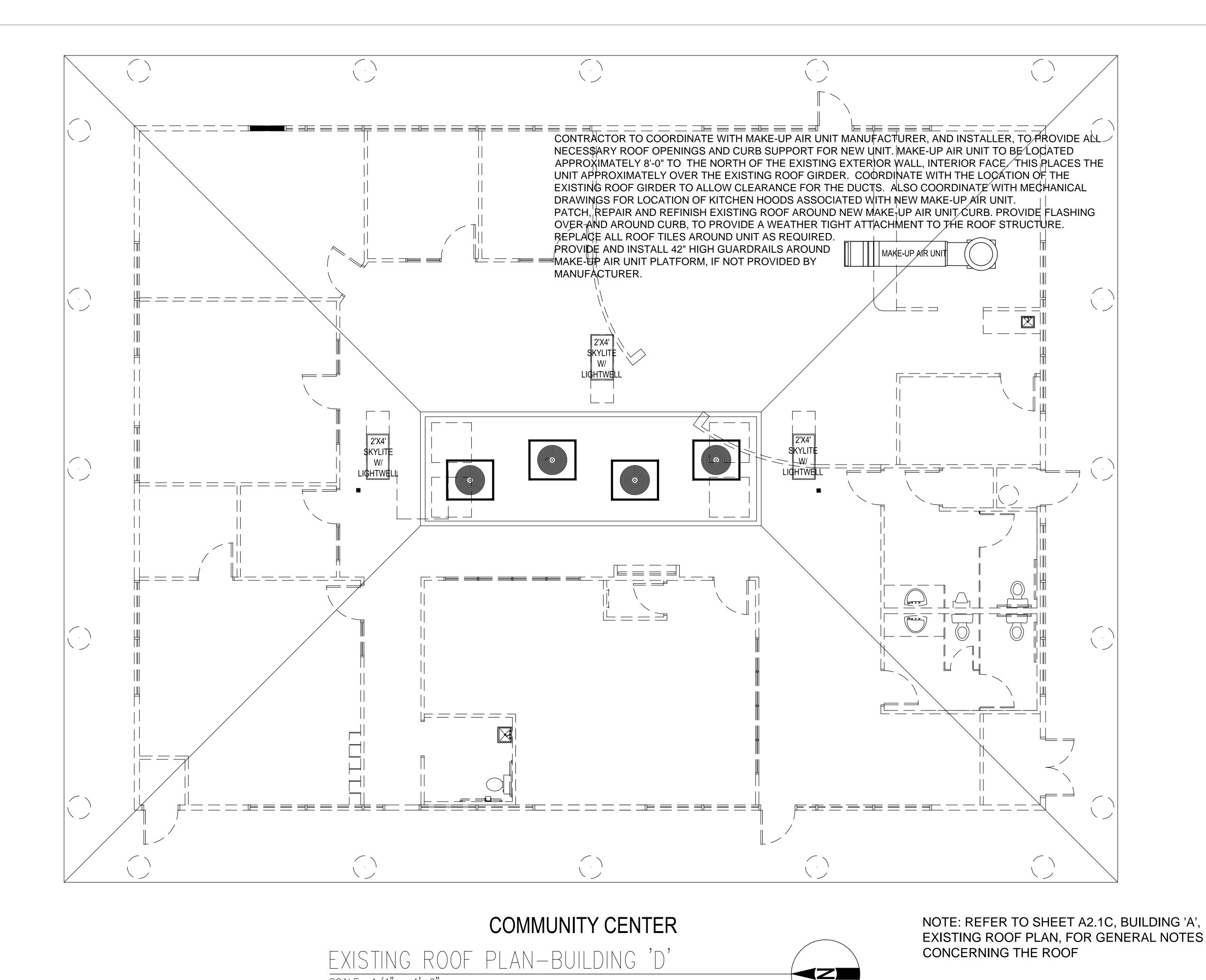
8 ADDENDUM #8-BUILDING 'A'
BUILDING 'F'

project no: drawn by: checked by:

title BUILDING 'D' REMODELED

REFL. CLG. PLAN sheet

A2 4B



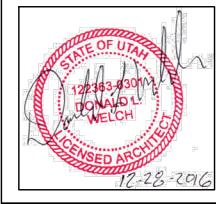
SCALE: 1/4" = 1'-0"

Donald L. Welch

NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC REPRESENTATION & MODELS THEREOF, ARE PROPRIETARY & CAN NOT E EXPLOITED IN WHOLE OR IN PART WITHOUT THE SOLE AND EXPRESS WRITTEN PERMISSION FROM DONALD I. WELCH

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: Tenant Finish for

Brighton Recovery Campus

4905, 4911, 4915, 4925, 4931, 4953 South 900 East Salt Lake County, Utah

date

DECEMBER 28, 2016 revisions

JANUARY 6, 2017 2 ADDENDUM #2-BUILDING 'C'

JANUARY 17, 2017

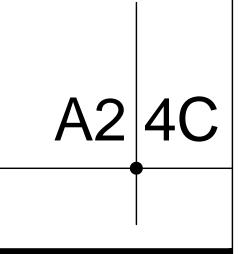
ADDENDUM #4-BUILDING 'B'
FEBRUARY 24, 2017
ADDENDUM #7-BUILDING 'A'
BUILDING 'F', 'B', 'C', 'D', 'E'

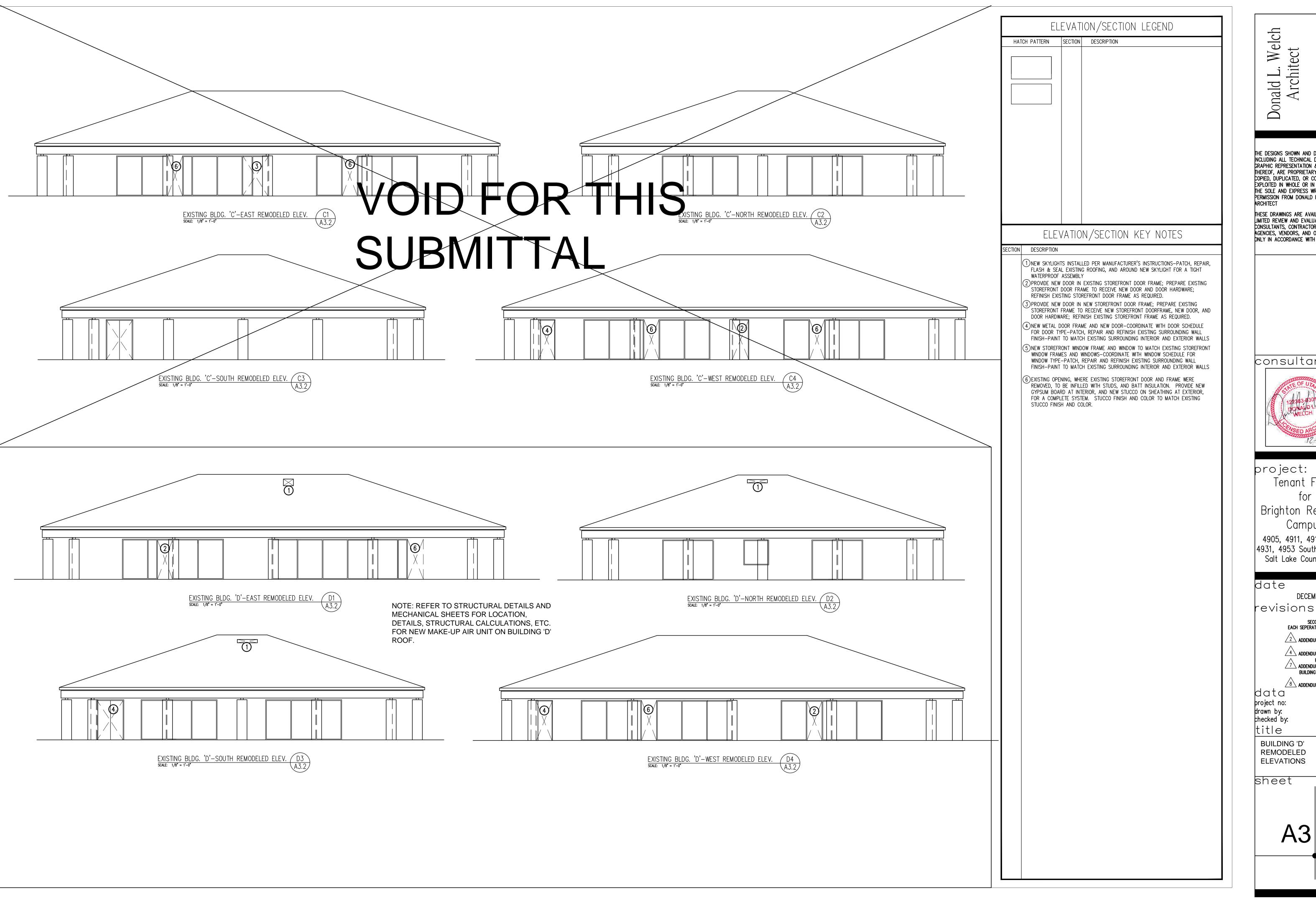
MARCH 20, 2017
ADDENDUM #8-BUILDING 'A'
BUILDING 'F'

data project no: drawn by: checked by:

title BUILDING 'D' EXISTING ROOF PLAN

sheet



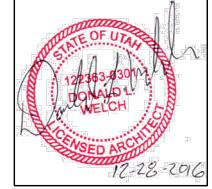


Sandy Land I vale utah 84

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC 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 I. WELCH

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:



Tenant Finish

Brighton Recovery Campus

4905, 4911, 4915, 4925, 4931, 4953 South 900 East Salt Lake County, Utah

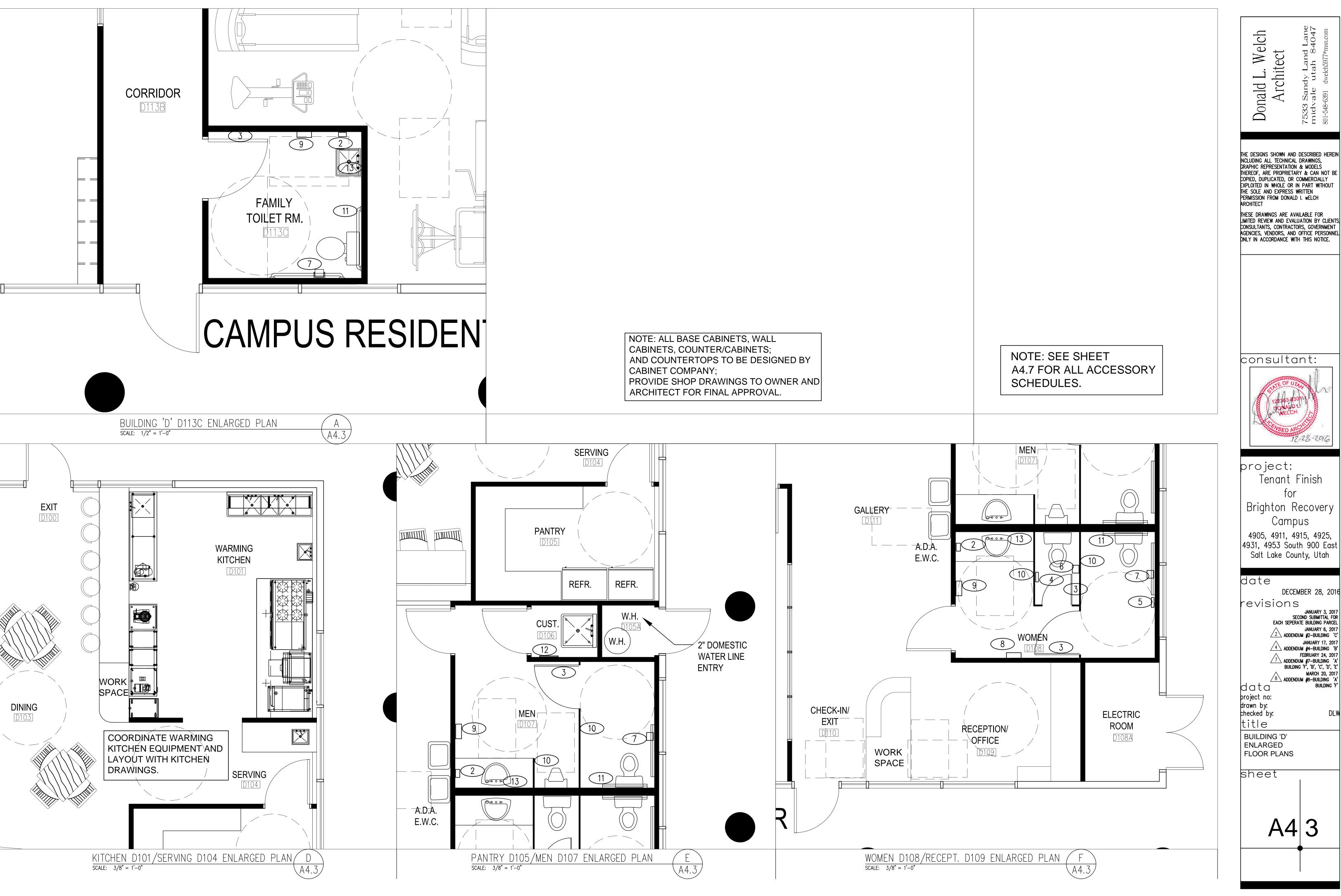
DECEMBER 28, 2016

JANUARY 3, 2017 SECOND SUBMITTAL FOR EACH SEPERATE BUILDING PARCEL

JANUARY 6, 2017
ADDENDUM #2-BUILDING 'C' JANUARY 17, 2017

ADDENDUM #4-BUILDING 'B'
FEBRUARY 24, 2017
ADDENDUM #7-BUILDING 'A'
BUILDING 'F', 'B', 'C', 'D', 'E'
MARCH 20, 2017
ADDENDUM #8-BUILDING 'A'
BUILDING 'F'

A3 2



THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC 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 I. WELCH

THESE DRAWINGS ARE AVAILABLE FOR LIMITED REVIEW AND EVALUATION BY CLIENTS, CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNEL



Tenant Finish

4905, 4911, 4915, 4925,

DECEMBER 28, 2016

JANUARY 6, 2017 ADDENDUM #2-BUILDING 'C' JANUARY 17, 2017

ADDENDUM #4-BUILDING 'B'
FEBRUARY 24, 2017
ADDENDUM #7-BUILDING 'A'
BUILDING 'F', 'B', 'C', 'D', 'E'
MARCH 20, 2017
ADDENDUM #8-BUILDING 'A'
BUILDING 'A'
BUILDING 'A'

A4 3



Unified Fire Authority, Greater Salt Lake Fire Prevention Bureau Building and Site Development Plan Review



Salt Lake County Townships

Unified Fire Authority Review

Date: January 23, 2017

Permit #: 170067

Project Name: New Brighton Recovery Campus

Address: 4911 S 900 E, SALT LAKE CITY UT 84117

Thank you for submitting your plans for the New Brighton Recovery Campus project. Please review all comments contained in this letter. This project SHALL, be designed to meet all requirements of the 2012 International Fire Code. Please contact the Area Fire Marshal Don Buckley at (801) 824-3714 for any and all inspections or questions.

Comments:

1. **Fire Sprinklers Required.** Deferred submittal for fire sprinkler shop drawings are to be sent directly to the following address: Unified Fire Authority, 3380 South 900 West, Salt Lake City, Utah 84119. Attention: Stewart Gray. A minimum of two sets of plans, complete with manufacturer cut sheets, and hydraulic calculations. Plans must be ink signed by a NICET level III or better in Auto Sprinkler Layout. (There needs to be a hydrant with-in a 100 feet of the FDC.) FDC is required to have KNOX Locking Caps. ALL FIRE PROTECTION PLANS REQUIRE 3rd PARTY REVIEW PRIOR TO BE SUBMITTED TO THE UNIFIED FIRE AUTHORITY.

- 2. **Post Indicator Valve with Tamper Required.** If there is no designated fire riser room with a direct access door from the outside. There shall be either a wall mounted P.I.V (OS&Y) or a typical P.I.V placed a minimum distance of 40 feet from the building with a tamper switch.
- 3. **Low Frequency Fire Alarm Required.** Deferred submittal for fire alarm shop drawings are to be sent directly to the following address: Unified Fire Authority, 3380 South 900 West, Salt Lake City, Utah 84119. Attention: Stewart Gray. A minimum of two sets of plans, complete with manufacturer cut sheets, and battery calculations. Plans must be ink signed by a NICET level III or better in Fire Alarm Systems. **ALL FIRE ALARM PLANS REQUIRE 3rd PARTY REVIEW PRIOR TO BE SUBMITTED TO THE UNIFIED FIRE AUTHORITY.**
- 4. **Knox Boxes Required.** Fire Department "Knox Brand" lock box to be mounted to exterior walls, near the main entrance and/or nearest the door serving the exterior access to the fire sprinkler riser room. (At a height of 5 feet to the top of the box) Lock box purchase can be arranged by the General Contractor. See attached information form.

5. **Visible Addressing Required.** New and existing buildings shall have approved address numbers plainly legible and visible from the street fronting the property. These numbers shall contrast with their background.

Notes:

All plans pertaining to fire protection and/or life safety are to be made available upon request at the construction site

Plan approval or review shall not be construed to relieve from or lessen the responsibility of any person designing, owning, operating or controlling any building. Damages to persons or property caused by defects, fire, improper installation, or other emergency conditions that occur in or on the building property shall not hold the Unified Fire Authority as assuming any liability.

Thank you,
Donald P. Buckley Jr.,
Salt Lake County East Area Fire Marshal,
Unified Fire Authority,
3380 South 900 West
Salt Lake City, Utah 84119
Phone: (801) 824-3714

Fax: (385) 468-9030

ALL BREAK ROOM ELEMENTS TO BE ACCESSIBLE AS NOTED BELOW:

i. PROVIDE A WORK SURFACE WHERE SHOWN,(30" WIDE X 28"-34" ABOVE FINISHED FLOOR

a. CLEAR FLOOR SPACE FOR FORWARD APPROACH WITH KNEE AND TOE CLEARANCE IS REQUIRED.

b. THE WORK SURFACE IS REQUIRED TO BE LOCATED ADJACENT TO MICROWAVE OVEN. EITHER ON THE SIDE OPPOSITE THE HINGE, OR ON EITHER SIDE, FOR A BOTTOM HINGE.

II. SINK SHALL BE 34" HIGH WITH A FORWARD APPROACH WITH TOE AND KNEE CLEARANCE (NO CABINET)

IV. CONTROLS FOR OVER THE MICROWAVE NEED TO BE WITHIN REACH RANGE AS REQUIRED BY SECTION 804.5.2, 309.3, and 309.4 OF ICC A117.1-09 (48").

804.5.5 Oven. Ovens shall comply with Section 804.5.5.

804.5.5.1 Clear floor space. A clear floor space shall be provided. The oven door in the open position shall not obstruct the clear floor space for the oven.

804.5.5.2 Side-Hinged Door Ovens. Side-hinged door ovens shall have a work surface complying with Section 804.3 positioned adjacent to the latch side of the oven door.

804.5.5.3 Bottom-Hinged Door Ovens. Bottom-hinged door ovens shall have a work surface complying with Section 804.3 positioned adjacent to one side of the door.

804.5.5.4 Controls. The location of controls shall not require reaching across burners.

Donald L. Welch Architect

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC 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 I. 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: Tenant Finish for Brighton Recovery Campus

4905, 4911, 4915, 4925, 4931, 4953 South 900 East Salt Lake County, Utah

date DECEMBER 28, 2016

revisions

JANUARY 3, 2017
SECOND SUBMITTAL FOR
EACH SEPERATE BUILDING PARCEL

JANUARY 6, 2017

ADDENDUM #2-BUILDING 'C'

JANUARY 17, 2017

ADDENDUM #4-BUILDING 'B'
FEBRUARY 24, 2017
ADDENDUM #7-BUILDING 'A'
BUILDING 'F', 'B', 'C', 'D', 'E'

MARCH 20, 2017

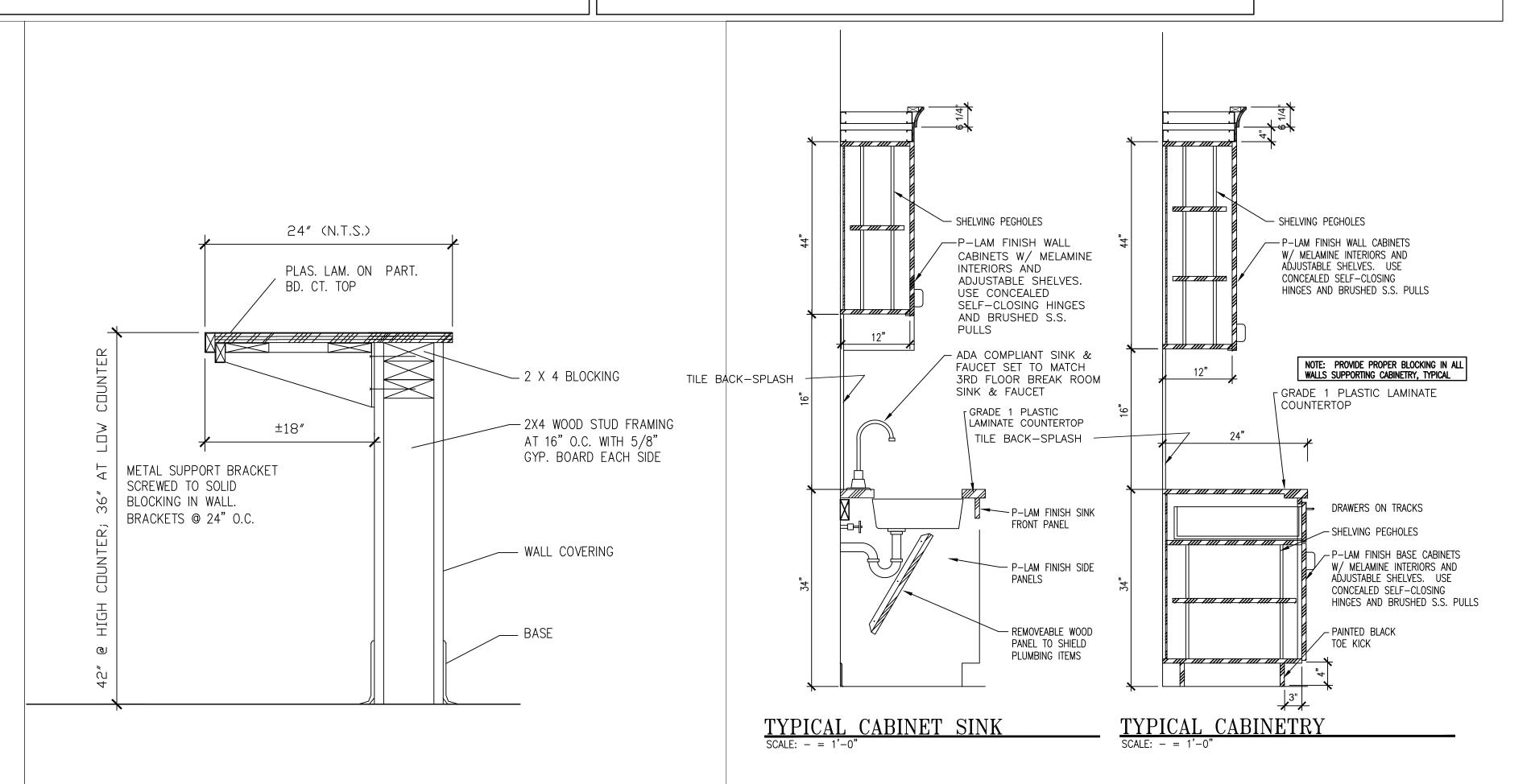
ADDENDUM #8-BUILDING 'A'
BUILDING 'F'
project no:
drawn by:
checked by:

DL\

FIRE MARSHAL
REQUIREMENTS
& CABINET SECTIONS

sheet

A4 6





E(QUIPMENT/ACCESSOR	Y SCHEDULE - REFER TO) A2	15	HI	EE	TS	FOR ENLARGED PLANS
	DESCRIPTION		URNIS					
			0 (C \	/	0	C ,	V
2	LAVATORY - COUNTERTOP ACCESSIBLE 4"X4" X 4'-0" HIGH TILE SURROUND	SEE PLUMBING SCHEDULE SEE SPECIFICATIONS; REAR OF MOP SINK		•			•	
3	ADA SHOWER SEAT	SEE FINISH SCHED.; COORD. W/ PREFAB					•	SEE NOTE A.
		SHOWER UNIT						
4	TOILET GRAB BAR	TO MEET A.D.A. REQUIREMENTS	•	•			•	PROVIDE BLOCKING PER MANUFACT. RECOMMENDATION
5	TOILET PAPER HOLDER - CHROME	COORD. WITH OWNER-SEE FINISH SCHED.	•				•	
6	SHOWER GRAB BARS	COORDINATE WITH PRE-FAB SHOWER	9				•	PROVIDE BLOCKING PER MANUFACT. RECOMMENDATION
/	SHOWER SPRAY UNIT - 60" LONG HOSE, HEAD HEIGHT ADJUSTABLE FROM 26" TO	SEE FINISH SCHEDULE \$ PLUMBING SCHEDULE	'					
	54" ABOVE TOP OF TUB							
8	SHOWER CONTROLS	SEE PLUMBING SCHEDULE		•			•	IN ACCESSIBLE ROOMS INSTALL AT 8" FROM EDGE OF TUB \$ 8" ABOVE TOP OF TUB, SEE INTERIOR ELEVATIONS. SEE INTERIOR ELEVATIONS FOR SHOWERS.
			•				•	
		COOPDINATE WITH OWNED						
	STRAIGHT SHOWER CURTAIN ROD -	COORDINATE WITH OWNER	•				•	
10	CHROME PLATED, SCREW MOUNTED MIRROR - 16" WIDE X 30" HIGH - ADA		•	•			•	FIXED TILT MIRROR W/ STAINLESS STEEL FRAME
	ONE PIECE FIBERGLASS SHOWER UNIT	SEE FINISH SCHEDULE & PLUMBING SCHEDULE			_	+		SEE NOTE B
	ONE PIECE FIBERGLASS SHOWER UNIT	SEE FINISH SCHEDULE & PLUMBING SCHEDULE SEE FINISH SCHEDULE & PLUMBING SCHEDULE					•	SEE NOTE B
	SHOWER			•			•	
12	BACK OF BATHROOM DOOR 66" A.F.F.	CONTACT DESIGNATED SERVICE PROVIDERS	(•			•	IN ACCESSIBLE ROOMS PROVIDE TWO SETS, ONE SET AT 66" AFF AND ONE SET AT 48" AFF.
13	UNLESS NOTED OTHERWISE TOWEL RACK - CHROME 18" WIDE	CONTACT DESIGNATED SERVICE PROVIDERS	(•			•	
14	FLAT PANEL TELEVISION W/ FIXED	CONTACT DESIGNATED SERVICE PROVIDERS		•			•	40" OR 60" FLAT SCREEN PER OWNERS PREFERENCE
	MOUNTING BRACKET							
15	ADA CLEARANCE						•	SEE NOTE C
16	ADA CLEARANCE							SEE NOTE D
17	ACCESSIBLE SINK FRONT/PLUMBING	SEE PLUMBING SCHEDULE		•			•	
18	BUILT-IN MICROWAVE ABOVE OVENS	COORDINATE WITH OWNER	•				•	SEE NOTE L
19	REFRIGERATOR	COORDINATE WITH OWNER	•				•	SEE NOTE L
	COOK-TOP	0001(2)117(12)	•				•	SEE NOTE L
	COOK-TOP HOOD	COCIONALE WITH OWNER	•		_	+	•	SEE NOTE L
-	DOUBLE OVEN UNDER-COUNTER DISHWASHER		•				•	SEE NOTE L SEE NOTE L
-	DOUBLE SINK W/ DISPOSAL	SEE PLUMBING DRAWINGS		•			•	OLL MOTE L
	CLOTHES WASHER		•				•	
26	CLOTHES DRYER	COORDINATE WITH OWNER	•				•	
	RECESSED WALL IRONING BOARD	COORDINATE WITH OWNER		•			•	SEE NOTE H
28	COUNTERTOP - PLASTIC LAMINATE OVER 3/4" SUBSTRATE - 1 1/2" SUBSTRATE AT	COORDINATE WITH OWNER		•			•	SEE NOTE H
	PERIMETER W/ BACKSPLASH							
29	ADA CLEARANCE							SEE NOTE F
	411 411 050 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4							
30	4" x 4" CERAMIC WALL TILE SURROUND X 4'-0" HIGH AT CUSTODIAL MOP SINK						•	
31	PREFABRICATED GAS FIREPLACE	COORDINATE WITH FINISH SCHEDULE		•			•	COORDINATE WITH PLUMBING AND ELECTRICAL FOR GAS BIBB AND ELECTRICAL SWITCH
	STAINLESS STEEL OR LAMINATE TOILET PARTITIONS AND PARTITION DOORS			•			•	PROVIDE BLOCKING PER MANUFACT. RECOMMENDATION
-	UNDER-COUNTER SPECIMEN REFRIGERATOR		•				•	SEE NOTE L
-	SINGLE LAB SINK	COORDINATE WITH OWNER	- '				•	COORDINATE WITH PLUMBING
	LOCKABLE CABINETS THROUGH-WALL SPECIMENT PASS-THRU		•				•	SEE NOTE L #B505; /2" W. X 0 7/8" HIGH; SEE NOTE L
-	SINGLE BAR SINK	COORDINATE WITH OWNER	-				•	COORDINATE WITH PLUMBING
	COUNTERTOP/CABINET - PLASTIC LAMINATE	COORDINATE WITH OWNER		•			•	SEE NOTE H
	OVER 3/4" SUBSTRATE - 1 1/2" SUBSTRATE AT PERIMETER W/ BACKSPLASH							
39		COORDINATE WITH OWNER	•				•	SEE NOTE L

LEGEND

O - OWNER

C - CONTRACTOR

V - VENDOR

MARK	TROOM ACCESSORIES SO	MANUF./ MODEL NO.#	NOTES:
1	NOT USED		NOTES.
2	WALL MTD. SOAP DISPENSER	BOBRICK OR BRADLEY	
3	ROBE HOOK @ 6'-0" A.F.F.	BOBRICK OR BRADLEY	
4	PARTITION MTD. SANITARY NAPKIN DISPOSAL	BRADLEY 4721-15	
(5)	WALL MTD. SANITARY NAPKIN DISPOSAL	BRADLEY 4722-15	
9	PARTITION MTD. TOILET TISSUE DISPENSER	BOBRICK OR BRADLEY	
7	WALL MTD. TOILET TISSUE DISPENSER	BRADLEY 5412	
8	SANITARY NAPKIN DISPENSER	BRADLEY 401	
(c)	TOWEL DISPENSER / WASTE CAN	BRADLEY 235	
(<u>c</u>	TOILET STALL PARTITION	SANYMETAL	
1	36" X 52" X 1 1/2" GRAB BAR	BRADLEY 059	STAINLESS STEEL
12	MOP RACK		WALL/CLG. MTD., STAINLESS STEEL
13	36" WIDE x 48" HIGH FRAMELESS MIRROR	BOBRICK OR BRADLEY	COORD. MIRROR WDTH. W/ FIN. WALLS
14	TOWEL DISPENSER	BRADLEY OR BOBRICK	WALL HUNG ABOVE COUNTER TOP
15	COAT HOOK	BOBRICK OR BRADLEY	

NOTES:

TN-TUB SEAT SHALL BE MOUNTED SECURELY & SHALL NOT SLIP DURING USE. STRUCT. STRENGTH PER ADA REQUIREMENTS.

VERIFY REQUIRED R.O. WITH SHOWER MANUF. ADA 30"x 48" CLEAR FLOOR SPACE @ LAVATORY, AND 60" x 56" CLEAR FLOOR SPACE @ WATER CLOSET.

ADA 36" CLEAR FLOOR SPACE @ SHOWER. PROVIDE CUTOUT IN HEADBOARD FOR ELECTRICAL BOX - COORD. W/ ELEC. DWGS. (SEE 8/A-9 FOR BACK-TO-BACK CONDITION).

NOTE: ELEC. OUTLETS IN ALL GUEST ROOMS SHALL BE 4" HIGHER THAN IN COMMON AREAS. ADA 3'-0" CLEAR FLOOR SPACE AROUND BED FURNISHING

CONTRACTOR TO PROVIDE AND INSTALL BLOCKING AND COORDINATE ELECTRICAL INSTALLATION W/ ELECTRICAL DRAWINGS.

NOT USED NOT USED

ALL OWNER SUPPLIED ITEMS MUST BE PURCHASED THROUGH ONE OF THE OWNER DESIGNATED SERVICE PROVIDERS. COORDINATE WITH OWNER.

EXTEND MORE THAN 4" OVER THE WALKING SURFACE AS REQUIRED BY IBC 1003.3.2.

\ALL NEW INTERIOR WALLS, SEPARATING \$LEEPING UNITS FROM EACH OTHER, AND WALLS/ SEPARATING COMMON AREAS, TO BE 30 MINUTE FIRE RATED CONSTRUCTION, CONSISTING OF ONE LAYER OF %" SHEETROCK ULTRALIGHT PANELS FIRECODE 30, EACH SIDE OF 2X4 WOOD STUD\$ @ 16" O.C. UL DESIGN #U407.

ALL INTERIOR DOORS AND FRAMES, PLACED WITHIN THE 30 MINUE FIRE RATED WALL CONSTRUCTION, TO BE 20 MINUTE RATED DOORS.

ALL NEW INTERIOR SHEETROCK CEILINGS BE 30 MINUTE FIRE RATED CONSTRUCTION (MATERIALS CALLED OUT IN THIS NOTE ARE FOR A 1 HOUR FIRE RATED CONSTRUCTION), CONSISTING OF ONE LAYER OF 1/8" SHEETROCK FIRECODE C CORE GYPSUM PANELS. (WITH EXISTING PLYWOOD SHEATHING ON ROOF)
EXISTING ROOF TRUSSES AT 24" O.O. TIELD
VERIFY EXACT SPACING), WITH SYP. BD. ATTACHED TO 3/4" RC-1 CHANNELS, OR

REQUIREMENTS OF SECTION 1002.14 OG ICC A117.1-09, FOR ACCESSIBLE REACH RANGE. SEE NOTES ON SHEET A8.2 CONCERNING ACCESSIBLE RÉACH RANGE & HEIGHTS.

NOTE: REINFORCEMENT SHALL BE PROVIDED FOR THE FUTURE INSTALLATION OF GRAB BARS AND SHOWER SEATS AT WATER CLOSETS AND SHOWER COMPARTMENTS. WHERE WALLS ARE LOCATED TO PERMIT THE INSTALLATION OF GRAB BARS AND SEATS COMPLYING WITH SECTION 604.5 AT WATER CLOSETS, GRAB BARS COMPLYING WITH 607.4, AT BATHTUBS, AND FOR GRAB BARS AND SHOWER SEATS COMPLYING WITH SECTION 608.3, 608.2.1.3, 608.2.2.3, AND 608.2.3.2, AT SHOWER COMPARTMENTS, REINFORCEMENT SHALL BE PROVIDED FOR THE **FUTURE INSTALLATION OF GRAB BARS AND** SEATS COMPLYING WITH THOSE REQUIREMENTS.

NOTE: FIRE EXTINGUISHER CABINETS SHALL NOT

THROUGHOUT THE ENTIRE EXISTING BUILDING TO

NOTE: THE SHELF AND ROD IN THE CLOSETS OF THE A.D.A. ACCESSIBLE UNITS SHALL MEET

project no: drawn by: checked by:

Welch Donald L. We Architect

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC REPRESENTATION & MODELS COPIED, DUPLICATED, OR COMMERCIALLY EXPLOITED IN WHOLE OR IN PART WITHOUT THE SOLE AND EXPRESS WRITTEN PERMISSION FROM DONALD I. WELCH

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.



project: Tenant Finish for

Brighton Recovery Campus

4905, 4911, 4915, 4925, 4931, 4953 South 900 East Salt Lake County, Utah

date

DECEMBER 28, 2016 revisions

JANUARY 3, 2017 SECOND SUBMITTAL FOR EACH SEPERATE BUILDING PARCEL JANUARY 6, 2017 $\sqrt{2}$ addendum #2-building 'c' JANUARY 17, 2017 ADDENDUM #4-BUILDING 'B'
FEBRUARY 24, 2017
ADDENDUM #7-BUILDING 'A'
BUILDING 'F', 'B', 'C', 'D', 'E'

MARCH 20, 2017

8 ADDENDUM #8-BUILDING 'A' þata

title EQUIPMENT/

ACCESSORY SCHEDULE

sheet

A4

ROOM	ROOM NAME	FLOOR	BASE	FINI		LLS		CEILG.	CEILG.	REMARKS	GENERAL NOTES FOR ALL 6 BUILDINGS:
NO.	TOOM TWIND	120011	D/(OL	NORTH	EAST	SOUTH	WEST	02,20.	HGT.	TEND THE	1- TO MEET THE ENERGY CODE REQUIREMENTS,
	EXISTING BUILD	i				_		1	·	1	PROVIDE 5/8" PAINTED GYP. BD. ON 2X4 S' FURRING @ 24" O.C., AND R-13 BATT OR
D100 D101	EXIT WARMING KITCHEN	F-4 F-6	B-3 B-2	W-1 W-4	W-1 W-4	W-1 W-4	W-1 W-4	C-1	±10'-4"	5	BLOWN-INSULATION AT ALL EXISTING EXTERIOR WALLS, AT WINDOW SILLS ANI
D102	NOT USED										HEADS, BELOW NEW CEILINGS.
D103 D104	DINING SERVING	F-4 F-6	B-3 B-2	W-1 W-4	W-1	W-1 W-4	W-1	C-1	±10'-4"	5	2- PROVIDE NEW R-38 BATT, OR BLOWN-I INSULATION ABOVE NEW CEILING IN ALL
D104	PANTRY	F-1	B-2	W-4	W-1	W-1	W-1	C-1	±10'-4"	5	BUILDINGS-COORDINATE WITH NEW FIRE SPRINKLER LINES ABOVE NEW CEILING.
D105A	WATER HEATER (W.H.)	F-5	B-4	W-3	W-3	W-3	W-3	C-2	±10'-4"	6	3. COORDINATE WITH REFLECTED CEILIN
D106 D107	CUSTODIAN MEN'S RESTROOM	F-3 F-2	B-1 B-2	W-1 W-2	W-1 W-2	W-1 W-2	W-1 W-2	C-1	±10'-4" ±10'-4"	5	PLANS FOR 12" DEEP X 36" WIDE FURRED-DOWN CEILING AREAS, FOR HO
D108	WOMEN'S RESTROOM	F-2	B-2	W-2	W - 2	W - 2	W-2	C-1	±10'-4"	5	COLD WATER PIPING LINES -ALSO COORDINATE WITH PLUMBING PLANS FO
D108A D109	ELECTRICAL ROOM RECEPTION/OFFICE	F-3 F-4	B-1 B-3	W-1 W-1	W-1 W-1	W-1 W-1	W-2 W-1	C-1	±10'-4"	-	AND COLD WATER PIPING LINE LOCATION
D110	CHECK-IN/EXIT	F-4	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"	_	PREFABRICATED FIREPLACE UNIT
D111	GALLERY	F-4	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"	-	IN COMMON AREA: NAPOLEON FIREPLACES
D112 D113	COMMON AREA WORK-OUT ROOM	F-4 F-4	B-3 B-3	W-1 W-1	W-1 W-1	W-1 W-1	W-1 W-1	C-1	±10'-4"	_	PLAZMA FIRE VF31 PRODUCT CODE: WHVF31
D113A	ROOF ACCESS	F-3	B-1	W-3	W-3	W-3	W-3	C-2	±10'-4"	_	VENT FREE GAS FIREPLACE
D113B D103C	CORRIDOR FAMILY TOILET ROOM	F-4 F-2	B-3 B-2	W-1 W-2	W-1 W-2	W-1 W-2	W-1 W-2	C-1	±10'-4"	5	28" H X 43 ¾ ₆ " WIDE X 9 ⅓" DEEP OR EQUIVALENT
D114	YOGA STUDIO	F-4	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"	_	OR A
D114A	FIRE RISER ROOM	F-5	B-4	W-3	W-3	W-3	W-3	C-2	±10'-4"	_	NAPOLEON FIREPLACES DIRECT VENT GAS FIREPLACE
D115 D115A	MALE EMPL. LOCKER RM. FEMALE EMPL. LOCKER R		B-3 B-3	W-1 W-1	W-1 W-1	W-1 W-1	W-1 W-1	C-1	±10'-4" ±10'-4"	-	ASCENT LINEAR 36
D116	ART ROOM	F-4	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"	-	PRODUCT CODE: BL36 34½" HIGH X 35" WIDE X 16½" DEEP COORDINATE FIREPLACE SURROUND TO MEE
D117 D118	MUSIC ROOM OFFICE	F-1 F-1	B-3 B-3	W-1 W-1	W-1 W-1	W-1 W-1	W-1 W-1	C-1	±10'-4"	***	REQUIRED DIMENSIONS
D119	COMPUTER LAB	F-4	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"	_	***MUSIC ROOM:
											PROVIDE %" PAINTED GYP. BOARD ON ¾"
											RESILIENT CHANNELS @ 24" O.C., HORIZONTALLY, ON 2X4 STUDS, AND ALSO
											PROVIDE SOUND INSULATION IN ALL INTERIO WALLS AROUND MUSIC ROOM
											PREFABRICATED FIREPLACE UNIT
$\overline{}$	ING BUILDING 'E' (1		HEDULE Y	PLAZMA FIRE VF31 PRODUCT CODE: WHVF31
E129 E130	STORAGE DINNIG/GREAT ROOM	F-4 F-4	B-3 B-3	W-1 W-1	W-1	W-1 W-1	W-1 W-1	C-1	±10'-4" ±10'-4"	4	VENT FREE GAS FIREPLACE $28" \text{ H X } 43\frac{5}{6}" \text{ WIDE X } 9\frac{1}{8}" \text{ DEEP}$
E131	FAMILY ROOM	F-4	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"	_	OR EQUIVALENT
E132 E133	KITCHEN EXIT HALL	F-4 F-4	B-3 B-3	W-1 W-1	W-1 W-1	W-1 W-1	W-1 W-1	C-1 C-1	±10'-4"	-	OR
E134	TOILET	F-2	B-2	W-2	W-2	W-2	W-2	C-1	±10'-4"	5	NAROLEON FIREPLACES DIRECT VENT GAS FIREPLACE
E135	STORAGE	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			₩-1 ₩-3	<u>V-1</u>	W-1	C-1	±10'-4"	-	ASCENT LINEAR 36 PRODUCT CODE: BL36
E135A E136	FIRE RISER ROOM GATHERING/LEARNING	F-4	B-3,	W-1	W-3 W-1	W-1	W-3 W-1	C-1 C-1	±10'-4"	-	34½" HIGH X 35" WIDE X 16¼" DEEP COORDINATE FIREPLACE SURROUND TO
E137	PLATFORM	F-4	B-3	W-1	/	_	W-1	C-1	±10'-4"	-	REQUIRED DIMENSIONS
E138 E139	A.V. ROOM	-4 -4	B-3 B-3	W-X -1	W-1 W-1	— W-1	 W-1	C-1	±10'-4"	-	PREFABRICATED SHOWER UNITS
E140	SERVING CENTER	F-4	В	-	W-1	-		C-1	±10'-4"	_	www.Freedom Showers.com 1-877-947-7769 38 5/8" x 38 7/16" Freedom ADA Transfer Sho
		5		R	H^-		lack				Or equivalent (dimensions shown on plans are this prefabricated shower. adjust wall dimensions
		O	U				\				for other prefab showers selected. 4-Piece for Remodeling
VICT	 	CONTU	VILLED I		EDING	EVICTII		LDING	'E' SCL	JEDI II E I	
F129	STORAGE	F-4	B-3	W-1	W-1	W-1	W-1	C-1	±18'-4"	-	ADA Transfer Shower Features: •Outside Dimensions: 38 5/8" x 38 7/16" x 7 •ADA compliant inside dimension 86 x 36
F130	DINNG/GREAT ROOM	F-4	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"	4	4-piece-unition-tenioaeimg / -
F131	FAMILY ROOM KITCHEN	F-4 F-4	B-3 B-3	W-1 W-1	W-1 W-1	W-1 W-1	W-1 W-1	C-1	±10'-4"	-	*½" barrier free threshold *Center drain location *Self-supporting and pre leveled shower
											base e imir ates inud cettin /\
											•Full wood backing •Subway tile pattern
											•Easy, to slean gelcont fig/sh •Textured slip-resistant floor
											•Made in America •30 Year Manufacturer/s Limited Warranty
											Commercial Code Compliance:
											•ADA Accessibility &uidelines for Buildings and •IPC International Plumbing Code
											•UPC Uniform Plumbing Code •ANSI Z124.2 Standards for Plastic Showers
FLOO					<u> </u>	BASE:				<u> </u>	•ANSI A117.1 Accessible and Useable Building •CSA approved
F-1 F-2	CARPET 2X2 CERAMIC TILE	_			E	3-2 4" HI	ILIENT BAS	MIC TILE			•NAHB, HUD/FHA
F-3 F-4	VINYL COMPOSITION TILI 1x4 HARDWOOD FLOORII	NG				3-3 HAR 3-4 NO E	DWOOD B BASE	ASE			(Call for MAS compiance or regional requirement
F-5 F-6 WALL	UNFINISHED CONCRETE- 8X8 QUARRY TILE-SEALE S.				<u>(</u>	CEILINGS:					PROVIDE THE FOLLOWING AVAILABLE ACI
W-1			SCOT)					P. BOARD-1 IRD UNPAI)	(UNLESS DIRECTED OTHERWISE BY ON •Z Strip to create receiver flange (recommende
		ΓED	·	ANELS	(C-3 EXP	OSED ST	RUCTURE			•Fold/ng Shower Seat •Grab Bars
INTER	RIOR FINISH SCHEDULE NO	TES:	, ,		 -	\\\c!=-	.n =- :	TIC::=	01:5-	IN 1017 =	•Shower Rod •Weighted Curtain
2. Pl	ROVIDE METAL EDGE AT CAROVIDE DROPPED GYP. BD.	CLG. IN TO	ILET ROOM	IS AND ALC	OVES INTO	O TOILET R	OOMS-TYF	PICAL.		INSIDE.	•₱ressure Balance Valve Hand-held Shower and Slide Bar
4. P	REFABRICATED SHOWER L REFABRICATED FIREPLACE	E UNITS-SE	EE INFORM	AATION AN	D SPECIFI	CATION IN					Surface mount stainless soap dish Caulkless Drain Callensible Water Retainer
	ROVIDE PAINTED GYP. BD. ROVIDE CERAMIC TILE WAI						PAINTED	GYP. BD.	ABOVE		Collapsible Water Retainer Color upgrade to Bone or Biscuit-
	ERAMIC TILE WAINSCOT.										

		INITE
NOTES FOR ALL S RUIII DINOS.	\mathbb{N}	INTE
NOTES FOR ALL 6 BUILDINGS: ET THE ENERGY CODE	ROOM NO	ROOM NAME
MENTS, 5⁄8" PAINTED GYP. BD. ON 2X4 STUD		EXISTING BUILI
@ 24" O.C., AND R-13 BATT OR NSULATION AT ALL EXISTING	E100	EXIT HALL
R WALLS, AT WINDOW SILLS AND	E101	RESIDENT LAUNDRY
ELOW NEW CEILINGS.	E102	LECTRICAL
DE NEW R-38 BATT, OR BLOWN-IN ON ABOVE NEW CEILING IN ALL	E103	PRIVATE UNIT
S-COORDINATE WITH NEW FIRE	E103A E103B	BATHROOM CLOSET
ER LINES ABOVE NEW CEILING.	E103B	SHOWER (PREFAB.)
DINATE WITH REFLECTED CEILING DR 12" DEEP X 36" WIDE	E104	A.D.A. PRIVATE UNIT
DOWN CEILING AREAS, FOR HOT & TER PIPING LINES -ALSO	E104A	ватнгоом
IATE WITH PLUMBING PLANS FOR HOT	E104B	CLOSET
D WATER PIPING LINE LOCATIONS	E104C E105	SHOWER \ STORAGE
ATED FIREPLACE UNIT	E106	VESTIBULE
I AREA:	E107	A.D.A. SEMI-PRIVATE UN
REPLACES VF31	E107A	BATHROOM
DE: WHVF31 AS FIREPLACE	E107B E107C	DOUBLE CLOSET SHOWER
WIDE X 9 1/8" DEEP	E107C	LINEN
NT	E109	LINEN
<u> </u>	E110	SEMI-PRIVATE UNIT
REPLACES	E110A	BATHROOM
GAS FIREPLACE NR 36	E110B E110C	CLOSET
DE: BL36 5" WIDE X 16 ¼" DEEP	E110D	SHOWER
FIREPLACE SURROUND TO MEET	E111	SEMI-PRIVATE UNIT
MENSIONS	E111A	BATHROOM
DM:	E111B	CLOSET
PAINTED GYP. BOARD ON ¾" IANNELS @ 24" O.C.,	E111C E111D	CLOSET
LY, ON 2X4 STUDS, AND ALSO	E112	HALL
JND INSULATION IN ALL INTERIOR ND MUSIC ROOM	E112A	ROOF ACCESS
	E113 E114	DINING/GREAT ROOM FAMILY ROOM
RICATED FIREPLACE UNITS: N FIREPLACES 1-866-820-8686	E115	KITCHEN
TIRE VF31 /	E116	STORAGE
CODE: WHVF31 EE GAS FIREPLACE	E117	HALL
. 5⁄16" WIDE X 9 1⁄8" DEEP 'ALENT	E118 E118A	SEMI-PRIVATE UNIT BATHROOM
	E118B	CLOSET
N FIREPLACES	E118C	CLOSET
ENT GAS FIREPLACE	E118D E119	SHOWER SEMI-PRIVATE UNIT
CODE: BL36	E119A	BATHROOM
H X 35" WIDE X 16 ¼" DEEP ATE FIREPLACE SURROUND TO M⊭ET	E119B	CLOSET
DIMENSIONS	E119C	CLOSET
RICATED SHOWER UNITS:	E119D E120	SHOWER
dom Showers.com 1-877-947-7769	E121	LINEN
8 7/16" Freedom ADA Transfer Shower ent (dimensions shown on plans are for	E122	A.D.A. SEMI-PRIVATE UN
ricated shower. adjust wall dimensions refab showers selected.	E122A	BATHROOM
Remodeling	E122B E122C	CLOSET
efer Shower Features:	E122D	SHOWER
ster Shower Features: Impensions: 38 5/8" 1 x 38 7/16" (x 79 n plicit for the declaration of the control of t	E123	HALL
	E124	CUSTODIAN
free threshold / / / / / / / / / / / / / / / / / / /	E125 E125A	A.D.A. PRIVATE UNIT BATHROOM
or ing and ork leveled shower hir ates mud settin	E125B	CLOSET
backing	E125C	SHOWER
le pattern ean gelcout finish sli -resista et Pon	E126	PRIVATE UNIT
ean gercont system of the stand from	E126A	BATHROOM /
lanufacturer/s Limited Warranty	E126B E126C	CLOSET / SHOWER
al Code Compliance: essibility Guidelines for Buildings and Facilities	E127	RESIDENT LAUNDRY
ational Plumbing Code	E128	EXIT HALL
orm Plymbing Code 4.2 Standards for Plastic Showers	E129	STORAGE / R TO ADJACENT EXISTING
7.1 Accessible and Useable Buildings and Facilities over	FLOO	
JD/FHA	F-1 F-2	CARPET / 2X2 CERAMIC TILE
S compiance or regional requirements)	F-3 F-4	VINYL COMPOSITION TII 1x4 HARDWOOD FLOOR
THE FOLLOWING AVAILABLE ACCESSORIES OWERS	F-5 F-6	UNFINISHED CONCRETI 8X8 QUARRY TILE-SEAL
SS DIRECTED OTHERWISE BY OWNER:	WALL W-1	
create receiver flange (recommended) hower Seat	W-2 W-3	4X4 CERAMIC TILE (5'-0" GYPSUM BOARD UNPAIR
od \	W-4	8' HIGH FIBER REINFOR
Curtain Balance Valve	II — 7	KIOR FINISH SCHEDULE N ROVIDE METAL EDGE AT (
1		

\	INTE	RIC	R F	FINI	SH	SC	HE	DU	LE	
ROOM NO	ROOM NAME	FLOOR	BASE	NORTH	WA EAST	LLS SOUTH	WEST	CEILG.	CEILG. HGT.	REMARK
$\overline{}$	EXISTING BUILD	ING 'E'	<u> </u>	NORTH	LAGI	300111	WEST			- /
E100	EXIT HALL	F-4	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"	T /
E101	RESIDENT LAUNDRY	F-3	B-1	W-1	W-1	W-1	W-1	C-1	±10'-4"	-/
E102	LECTRICAL	F-3	B-1	W-1	W-1	W-1	W - 2	C-1	±10'-4"	<i>J</i> -
E103	PRIVATE UNIT	F-1	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"	/
103A	BATHROOM	F-2	B-2	W-2	W-2	W-2	W-2	C-1	±10'-4"	5
E103B E103C	CLOSET SHOWER (PREFAB.)	F-1	B-3	W-1	W-1 	W-1 	W-1 	C-1	±10'-4"/	3
E104	A.D.A. PRIVATE UNIT	F-1	B-3	W-1	W-1	W-1	W-1	C-1	±10/-4"	
E104A	BATHROOM	F-2	B-2	W-2	W-2	W - 2	W-2	C-1	±/0'-4"	5
E104B	CLOSET	F-1	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"	
E104C	SHOWER	_						/	_	3
E105	STORAGE	F-4	B-3	W-1	W-1	W-1	W-1	C-1/	±10'-4"	
E106	VESTIBULE VESTIBULE	F-4	B-3	W-1	W-1	W-1	W-1	9-1	±10'-4"	
E107 E107A	A.D.A. SEMI-PRIVATE UNIT	F-1 F-2	B-3 B-2	W-1 W-2	W-1 W-2	W-1 W-2	W-1 W-2	/C-1 / C-1	±10'-4"	5
E107A	DOUBLE CLOSET	F-1	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"	
E107C	SHOWER	-						-	_	3
E108	LINEN	F-4	B-3	W-1	W-1	W-1	W-1/	C-1	±10'-4"	-
E109	LINEN	F-4	B-3	W-1	W-1	W-1	w ₋ /I	C-1	±10'-4"	
E110	SEMI-PRIVATE UNIT	F-1	B-3	W-1	W-1	W-1	y V-1	C-1	±10'-4"	
E110A	BATHROOM	F-2	B-2	W-2	W-2	W-2	/W-2	C-1	±10'-4"	5
E110B	CLOSET	F-1	B-3	W-1	W-1	W-1	/ W-1	C-1	±10'-4"	
E110C	CLOSET	1 -1	B-3	W-1	W-1	W-1	/ W-1	C-1	±10'-4"	
E110D E111	SHOWER SEMI-PRIVATE UNIT	-\ F-1\	 B-3	 W-1	 W-1	 W-1/	/ W-1	 C-1	±10'-4"	3
E111A	BATHROOM	F-2	B-2	W-2	W-2	W/2	W-2	C-1	±10'-4"	5
E111B	CLOSET	F-1	B-3	W-1	W-1)/V-1	W-1	C-1	±10'-4"	
E111C	CLOSET	F-1	B-3	W-1	W-1	/W-1	W-1	C-1	±10'-4"	
E111D	SHOWER	_	\-			/			_	3
E112	HALL	F-4	B\3	W-1	W-1	W-1	W-1	C-1	±10'-4"	
E112A	ROOF ACCESS	F-3	B-1\	W-3	W-3	W-3	W-3	C-2	±10'-4"	
E113	DINING/GREAT ROOM	F-4	B-3	W-1	W-1/	W-1	W-1	C-1	±10'-4"	4
E114	FAMILY ROOM	F-4	B-3	W-1	W <u>/</u> 1	W-1	W-1	C-1	±10'-4"	
E115 E116	KITCHEN STORAGE	F	3.3	W	/ W-1	√ -	W-1 W-1	C-1 C-1	±10'-4"	
E117	HALL	F-4	B-3	W-1	7 W-1	W-1	W-1	C-1	±10'-4"	
E118	SEMI-PRIVATE UNIT	F-1	B∹		W-1	W-1	W-1	C-1	±10'-4"	
E118A	BATHROOM	F-2	B-3	V-2	W-2	W-2	W-2	C-1	±10'-4"	5
E118B	CLOSET	F-1	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"	
E118C	CLOSET	Ó	B-3	W -1	W	W 1	W-1	C-1	±10'-4"	
E118D	SHOWER		│	5 /\			A1		_	3
E119	SEMI-PRIVATE UNIT	—	B-3	/ W-7	W-1	₩-1	₩-₩	C-1	±10'-4"	
E119A	BATHROOM	F-2	B-2	/ W-2	W-2	W-2	W-2	C-1	±10'-4"	5
E119B E119C	CLOSET	F-1 F-1	B-3 /	W-1 W-1	W- \ W-1	W-1 W-1	W-1 W-1	C-1 C-1	±10'-4"	
E119C E119D	SHOWER	F*I	/ /						±10-4	3
E120	LINEN	F-4	B /-3	W-1	W-1	W-1	W-1	C-1	±10'-4"	
E121	LINEN	F-4	/B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"	
E122	A.D.A. SEMI-PRIVATE UNI	F-1	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"	
E122A	BATHROOM	F-2	B- 2	W - 2	W - 2	w/s	W-2	C-1	±10'-4"	5
E122B	CLOSET	F-1	В-3	W-1	W-1	W-1\	W-1	C-1	±10'-4"	
E122C	CLOSET	F-1/	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"	
E122D	SHOWER	-/-							- 401.411	3
E123 E124	HALL CUSTODIAN	F- 4	B-3 B-1	W-1 W-1	W-1 W-1	W-1 W-1	W-1 W-1	C-1 C-1	±10'-4"	6
E124	A.D.A. PRIVATE UNIT	F-1	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"	
E125A	BATHROOM	F-2	B-2	W-2	W-2	W-2	W- X	C-1	±10'-4"	5
E125B	CLOSET	F-1	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"	
E125C	SHOWER	_						\ <u>-</u>	 	3
E126	PRIVATE UNIT	F-1	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"	
E126A	BATHROOM	F-2	B-2	W-2	W-2	W-2	W-2	C-1	±10'-4"	5
E126B	CLOSET	F-1	B-3	W-1	W-1	W-1	W-1	Ç-1	±10'-4"	
E126C	SHOWER	-						-\	-	3
E127	RESIDENT LAUNDRY	F-3	B-1	W-1	W-1	W-1	W-1	C-1\	±10'-4"	
E128	EXIT HALL	F-4	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"	
E129	STORAGE /	F-4	B-3	W-1	W-1	W-1	W-1	C-1	10'-4"	HEDIII E**
FLOOI	R TO ADJACENT EXISTING E R:	יטונטווטל 'ו	D FIIN. SCF	ı⊏∪., FUK (BASE:	NOTING BL	יירחואפ ₍ F,	FIINISH SC	I ICUULE**
F-1 F-2 F-3					 E E	3-1 RES 3-2 4" HI 3-3 HAR	ILIENT BAS GH CERAN DWOOD B BASE	AIC TILE		
F-4	1x4 HARDWOOD FLOORING UNFINISHED CONCRETE-	CLEANED			_	.,,,,,			`	\
F-5 F-6	8X8 QUARRY TILE-SEALE	_								_

					_	١٠
W-1	W-1	W-1	W-1	C-1	±10'-4"	
W-1	W-1	W-1	W-1	C-1	±10'-4"	
W-1	W-1	W-1	W-1	C-1	±10'-4"	
W - 2	W-2	M/s	W-2	C-1	±10'-4"	5
W-1	W-1	W-1\	W-1	C-1	±10'-4"	
W-1	W-1	W-1	W-1	C-1	±10'-4"	
-		-	\		-	3
W-1	W-1	W-1	W-1	C-1	±10'-4"	
W-1	W-1	W-1	\W-1	C-1	±10'-4"	6
W-1	W-1	W-1	₩-1	C-1	±10'-4"	
W-2	W-2	W-2	W-X	C-1	±10'-4"	5
W-1	W-1	W-1	W-1 \	C-1	±10'-4"	
				\	1	3
W-1	W-1	W-1	W-1	C-1	±10'-4"	
W-2	W-2	W-2	W-2	\ C-1	±10'-4"	5
W-1	W-1	W-1	W-1	\c -1	±10'-4"	
				\	ı	3
W-1	W-1	W-1	W-1	C-1	±10'-4"	
W-1	W-1	W-1	W-1	C-1	\±10'-4"	
W-1	W-1	W-1	W-1	C-1	10'-4"	
D., FOR C	CONTINUA	TION OF EX	KISTING BL	JILDING 'E'	FINISH SC	HEDULE
	E E E E	3-2 4" HI 3-3 HAR 3-4 NO E CEILINGS: C-1 PAII C-2 GYF	ILIENT BAS GH CERAN DWOOD BA BASE NTED GYP PSUM BOA POSED STR	MIC TILE ASE . BOARD-T RD UNPAII	_	
AND ALC	N TILE TRA	NSITION C	OR TRANSI OOMS-TYP	TION TO CO		INSIDE.
ATION ANI		CATION IN	RMATION FORMATIC			

РООМ	ROOM NAME	FLOOR	BASE		WA	LLS		CEILG.	CEILG.
NO.				NORTH	EAST	SOUTH	WEST		HGT.
	EXISTING BUILD	ING 'F'							
F100	EXIT HALL	F - 4	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"
F101	RESIDENT LAUNDRY	F-3	B-1	W-1	W-1	W-1	W-1	C-1	±10'-4"
F102	ELECTRICAL	F-3	B-1	W-1	W-1	W-1	W - 2	C-1	±10'-4"
F103	PRIVATE UNIT	F-1	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"
F103A	BATHROOM	F-2	B-2	W-2	W-2	W-2	W-2	C-1	±10'-4"
F103B	CLOSET	F-1	B-3	W-1	W-1	W-1	W - 1	C-1	±10'-4"
F103C	SHOWER (PREFAB.)		_		-			_	/
F104	A.D.A. PRVATE UNIT	F-1	B-3	W-1	W-1	W-1	W - 1	C-1	±10'-4"
F104A	BATHROOM	F-2	B-2	W - 2	W - 2	W-2	W - 2	C-1	# 10'-4"
F104B	CLOSET	F-1	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"
F104C	SHOWER		_		-			- /	1
F105	STORAGE	F - 4	B-3	W-1	W-1	W-1	W-1	C-/	±10'-4"
F105A	FIRE RISER ROOM	F-3	B-1	W-3	W - 3	W-3	W - 3	/ 2-1	±10'-4"
F106	VESTIBULE	F-4	B-3	W-1	W-1	W-1	W - 1	/C-1	±10'-4"
F107	A.D.A. SEMI-PRIVATE UNI	F-1	B-3	W-1	W-1	W-1	W-1	/ C-1	±10'-4"
F107A	BATHROOM	F-2	B-2	W-2	W-2	W-2	W-2	/ C-1	±10'-4"
F107B	DOUBLE CLOSET	F-1	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"
F107C	SHOWER		_		-		/	<u> </u>	
F108	LINEN	F-4	B-3	W-1	W-1	W-1	W <u>-</u> 1	C-1	±10'-4"
F109	LINEN	F-4	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"
F110	SEMI-PRIVATE UNIT	F-1	B-3	W-1	W-1	W-1	/W-1	C-1	±10'-4"
F110A	BATHROOM	F-2	B-2	W-2	W-2	W-2	/ W-2	C-1	±10'-4"
F110B	CLOSET	1-2	B-3	W-1	W-1	W-1	/ W-2	C-1	±10'-4"
F110C	CLOSET	F-\	B-3	W-1	W-1	W-1 /	W-1	C-1	±10'-4"
F110D	SHOWER					/		_	
F111	SEMI-PRIVATE UNIT	F-1	В-3	W-1	W-1	W-1	W-1	C-1	±10'-4"
F111A	BATHROOM	F-2	B-3	W-2	W-2	/W-2	W-2	C-1	±10'-4"
F111B	CLOSET	F-1	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"
F111C	CLOSET	F-1	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"
			P-3			 /			-
F111D	SHOWER		7		-	V		- 0.4	
F112	HALL POOF ACCESS	F-4	B-3\	W-1	W-1/	W-1	W-1	C-1	±10'-4"
F112A	ROOF ACCESS	F-3	B-1 \	W-3	W-/3	W-3	W-3	C-2	±10'-4"
F113	DINING/GREAT ROOM	F-4	B-3	W-1	JW-1 √	W-1	W-1	C-1	±10'-4"
F114	FAMILY ROOM	F-4			W 1	—	W-1	C-1	±10'-4"
F115	KITCHEN	14	B-3	W-1		W-	W-1	C-1	±10'-4"
F116	STORAGE	F- X		W-1	V -1	——	₩-1	C-1	±10'-4"
F117	HALL	F-4	B-3	W-1	/ W-1	W-1	W-1	C-1	±10'-4"
F118	SEMI-PRIVATE UNIT	F-	B-	W-X	W-1	W-1	W-1	C-1	±10'-4"
F118A	BATHROOM	F-	B∙l		W-2	W-2	W - 2	C-1	±10'-4"
F118B	CLOSET	F-1	B-3	/W-1	W-1	W-1	W-1	C-1	±10'-4"
F118C	CLOSET		B-Î	W N	X W 1	 "1		C-1	±10'-4"
F118D	SHOWER							<u> </u>	
F119	SEMI-PRIVATE UNIT	<u>-</u>	В-3	7 W-1	▼ ▼ √√ -1	■ W-1	 	C-1	±10'-4"
F119A	BATHROOM	F-2	B-2	W-2	W\2	W-2	W-2	C-1	±10'-4"
F119B	CLOSET	F-1	B-3/	W-1	W-1\	W-1	W-1	C-1	±10'-4"
F119C	CLOSET	F-1	B/3	W-1	W-1	W-1	W-1	C-1	±10'-4"
F119D	SHOWER		<u>/</u> -		-			_	
F120_	LINEN	F - 4	B- 3	W-1	W-1	W-1	W-1	C-1	±10'-4"
F121	LINEN	F-4	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"
F122	A.D.A. SEMI-PRIVATE UNI	F-1	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"
F122A	BATHROOM	F-2	B-2	W-2	W-2	MZ	W-2	C-1	±10'-4"
F122B	DOUBLE CLOSET	F-1	B-3	W-1	W - 1	W-1	W-1	C-1	±10'-4"
F122C	SHOWER	-/	-		_		-	_	
F123	HALL	/F-4	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"
F124	CUSTODIAN	F- 3	B-1	W-1	W-1	W-1	W-1	C-1	±10'-4"
F125	A.D.A. PRIVATE UNIT	F-1	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"
F125A	BATHROOM	F-2	B-2	W-2	W-2	W-2	\\\\\-2	C-1	±10'-4"
F125B	CLOSET /	F-1	B-3	W-1	W-1	W-1	w <u>\</u>	C-1	±10'-4"
F125C	SHOWER		_		-		\		<u> </u>
F126	PRIVATE UNIT	F-1	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"
F126A	BATHROOM	F-2	B-2	W-2	W-2	W-2	W-2	C-1	±10'-4"
F126B	CLOSET	F-1	B-3	W-1	W-1	W-1	W-1	C-1	±10'-4"
F126C	SHOWER		_					\ <u>_</u>	
F127	RESIDENT LAUNDRY	F-3	B-1	W-1	 W-1	W-1	W-1	01	±10'-4"
F127	EXIT HALL	F-4	B-3	W-1	W-1	W-1	W-1	C-1\	±10'-4"
	R TO ADJACENT EXISTING B							 	
	. 10 NOONOLING B	א אוויסייי ר	,v. 30f1	_D., I OR C	CITTINUAL	.014 01- 67		יבטוועט דו	
i i		_			•		ı	ī	I \

VINYL/COMPOSITION TILE

1x4 HARDWOOD FLOORING UNI/INISHED CONCRETE-CLEANED F-6 8X QUARRY TILE-SEALED

W-3 /GYPSUM BOARD UNPAINTED

- WALLS: W-1 PAINTED GYP. BOARD W-2 AX4 CERAMIC TILE (5'-0" HIGH WAINSCOT)
- 4 CERAMIC TILE (5'-0" HIGH WAINSCOT) PSUM BOARD UNPAINTED HIGH FIBER REINFORCED PLASTIC (FRP) PANE
- FINISH SCHEDULE NOTES:
- PREFABRICATED SHOWER UNITS-SEE INFORMATIO PREFABRICATED FIREPLACE UNITS-SEE INFORMAT

PROVIDE METAL EDGE AT CARPET AND VINYL COMP 2. / PROVIDE DROPPED GYP. BD. CLG. IN TOILET ROOMS

PROVIDE PAINTED GYP. BD. ABOVE CERAMIC TILE WAINSCOT, AND FRP PANELS. PROVIDE CERAMIC TILE WAINSCOT AROUND 3 SIDES OF FLOOR SINK-PROVIDE PAINTED GYP. BD. ABOVE CERAMIC TILE WAINSCOT.

B-3 HARDWOOD BASE B-4 NO BASE

C-1 PAINTED GYP. BOARD-TEXTURED C-2 GYPSUM BOARD UNPAINTED C-3 EXPOSED STRUCTURE

W-4 / 8' HIGH FIBER REINFORCED PLASTIC (FRP) PANELS INTERIOR FINISH SCHEDULE NOTES:

1./ PROVIDE METAL EDGE AT CARPET AND VINYL COMPOSITION TILE TRANSITION OR TRANSITION TO CONCRETE INSIDE $^\prime$ PROVIDE DROPPED GYP. BD. CLG. IN TOILET ROOMS AND ALCOVES INTO TOILET ROOMS-TYPICAL. 8. PREFABRICATED SHOWER UNITS-SEE INFORMATION AND SPECIFICATION INFORMATION, THIS SHEET.: 4. PREFABRICATED FIREPLACE UNITS-SEE INFORMATION AND SPECIFICATION INFORMATION, THIS SHEET.:

/ 5. PROVIDE PAINTED GYP. BD. ABOVE CERAMIC TILE WAINSCOT, AND FRP PANELS. 6. PROVIDE CERAMIC TILE WAINSCOT AROUND 3 SIDES OF FLOOR SINK-PROVIDE PAINTED GYP. BD. ABOVE CERAMIC TILE WAINSCOT.

Welch Donald L. Archite

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC 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 I. WELCH ARCHITECT

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

consultant:

project: Tenant Finish Brighton Recovery Campus 4905, 4911, 4915, 4925,

4931, 4953 South 900 East

Salt Lake County, Utah

date DECEMBER 28, 2016

revisions JANUARY 3, 2017 SECOND SUBMITTAL FOR EACH SEPERATE BUILDING PARCEL JANUARY 6, 2017 2 ADDENDUM #2-BUILDING 'C' JANUARY 17, 2017 ADDENDUM #4-BUILDING 'B' FEBRUARY 24, 2017
ADDENDUM #7-BUILDING 'A'

Building 'f", 'b', 'c', 'd', 'e' MARCH 20, 2017 ADDENDUM #8-BUILDING 'A' Building 'f

data project no: drawn by: checked by:

sheet

title **Finish** Schedule

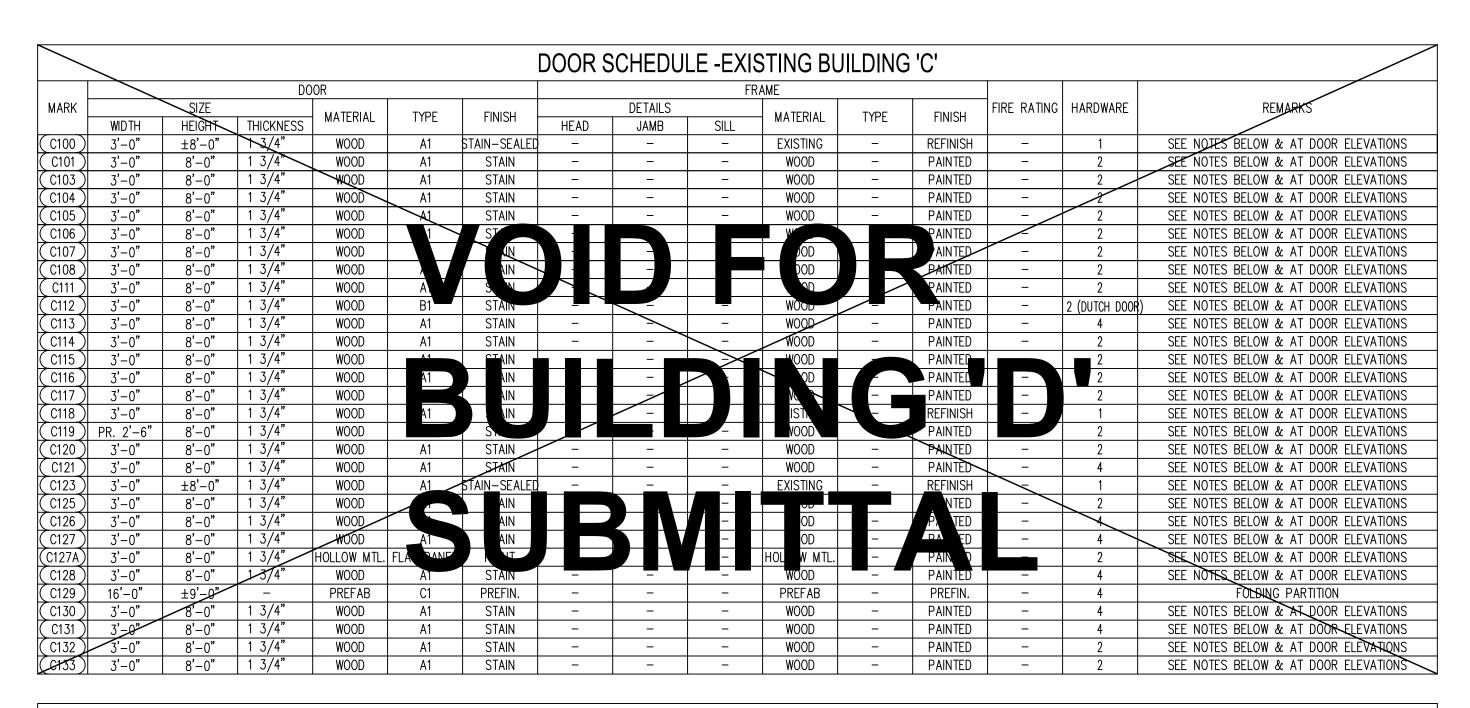
A6 1B

\							D 0 0 D 0			OTINIO DI		1 4 1			
							DOOR S	SCHEDU	LE -EXI	STING BL	JILDING	'A'			
$\overline{}$			DO	OR					FF	RAME					
MARK		SIZE		MATERIAL	TYPE	FINISH		DETAILS		MATERIAL	TYPE	FINISH	FIRE RATING	HARDWARE	REMARKS /
	WIDTH	HEIGHT	THICKNESS	MATERIAL	TIPE	LINISH	HEAD	JAMB	SILL	MATERIAL	TIPE	FINISH			
(A100)	3 '-0"	±8'-0"	1 3/4"	WOOD	A1	STAIN-SEALED	_	_	ı	EXISTING	-	REFINISH	_	1	SEE NOTES BELOW & AT DOOR ELEVATIONS
(A101)	3 ' _Q"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	ı	WOOD	-	PAINTED	_	4	SEE NOTES BELOW & AT DOOR PLEVATIONS
(A102)	3'-0'	8'-0"	1 3/4"	WOOD	A1	STAIN	-	_	1	WOOD	-	PAINTED	_	2	SEE NOTES BELOW & AT DOOK ELEVATIONS
(A103)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	-	_	ı	WOOD	-	PAINTED	_	4	SEE NOTES BELOW & AT DOOR ELEVATIONS
(A103A)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	ı	WOOD	-	PAINTED	_	2	SEE NOTES BELOW & AT/DOOR ELEVATIONS
(A103B)	3'-0"	\ 8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD		PAINTED	_	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
(A104)	3'-0"	8 ∕ -0"	1 3/4"	WOOD	A1	STAIN	=	_	_	WOOD	=	PAINTED	-	4	SEE NOTES BELOW 🖋 AT DOOR ELEVATIONS
(A104A)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	=	_	_	WOOD	-	PAINTED	-	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(A104B)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	-	WOOD	-	PAINTED	-	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
(A105)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	_	PAINTED	-	2	SEE NOTES B ÉLOW & AT DOOR ELEVATIONS
(A105A)	3'-0"	8'-0"		HOLLOW MTL.		PAINT	_	_	ı	HOLLOW MTL.	-	PAINTED	-	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(A107)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	-	WOOD	_	PAINTED	-	4	SEE NOTES BELOW & AT DOOR ELEVATIONS
(A107A)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	-	WOOD	_	PAINTED	-	2	SEE MOTES BELOW & AT DOOR ELEVATIONS
(A107B)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	_	PAINTED	_	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
$\overline{}$	PR. 1'-6"	8'-0"	1 3/4"	WOOD	A1	STAIN	-	_	_	WOOD	_	PAINTED	_	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
>	PR. 1'-6"	8'-0"	1 3/4"	WOOD	A1	STAIN	-	-	_	WOOD		PAINTED	_	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
A110)	3'-0"	8'-0"	1 3/4"	MOOD	A1	STAIN	-	_		WOOD		PAINTED	_	4	SEE NOTES BELOW & AT DOOR ELEVATIONS
(A110A)	3'-0"	8'-0"	1 3/4"	WQQD	A1	STAIN	_	-	-	WOOD	-	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(A110B)	2'-8"	8'-0"	1 3/4"	woop <u>a</u>	A1	STAIN	_	-	_	WOOD	_	PAINTED	-	3/	SEE NOTES BELOW & AT DOOR ELEVATIONS
>	PR. 1'-6"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	-	_	WOOD	_	PAINTED	-	*	SEE NOTES BELOW & AT DOOR ELEVATIONS
(A111)	3'-0"	8 ' -0 "	1 3/4"	WOOD `	A1	STAIN	_	-	_	WOOD	_	PAINTED	-	4	SEE NOTES BELOW & AT DOOR ELEVATIONS
(A111A)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	-	_	WOOD	_	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(A111B)	2'-8"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	-	_	WOOD	_	PAINTED	/	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
\rightarrow	PR. 1'-6"	8'-0"	1 3/4"	WOOD	AN	STAIN	-	_	_	WOOD		PAINTED	- /	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
(A112A)	2'-8"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	-	_	WOOD	_	PAINTED		2	SEE NOTES BELOW & AT DOOR ELEVATIONS
A116	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	-	-	_	WOOD	_	PAINTED	<u> </u>	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
A118	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	-	_	WOOD	_	PAINTED	/ -	4	SEE NOTES BELOW & AT DOOR ELEVATIONS
(A118A)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	=	_	_	WOOD	=	PAINTED	/ -	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(A118B)	2'-8"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	_	PAINTED/	_	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
>	PR. 1'-6"	8'-0"	1 3/4"	WOOD	A1	STAIN	-	-	_	WOOD	_	PAINTED	-	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
A119	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	_	PAINTED	_	4	SEE NOTES BELOW & AT DOOR ELEVATIONS
(A119A)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	-	-	WOOD	_	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
A119B)	2'-8"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	-	-	WOOD	-	PAINTED	_	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
> 	PR. 1'-6"	8'-0"	1 3/4"	WOOD	A1	STAIN	/-	_	-	WOOD	/	PAINTED	_	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
	PR. 1'-6"	8'-0"	1 3/4"	WOOD	A1	STAIN	-\	-	-	WOOD		PAINTED	_	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
	PR. 1'-6"	8'-0"	1 3/4"	WOOD	A1	STAIN	- \	-	-	WOOD	/_	PAINTED	_	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
A122)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN			-	WOOD		DAINTED	_	4	SEE NOTES BELOW & AT DOOR ELEVATIONS
A122A)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STA	-		_	WOOD		PAINT	-	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(A122B)	3'-0"	8'-0"	1 3/4"	WOOD	A1	ST	_		_		_	AMIT	_	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
A124	3'-0"	8'-0"	1 3/4"	WOOD	A1	\$ N			_	WOOD		PAIN	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
A125)	3'-0"	8'-0"	1 3/4"	WOOD	A1	AIN			-	WOOD		PAINTE	_	4	SEE NOTES BELOW & AT DOOR ELEVATIONS
(A125A)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	-	_	W96D	_	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
A125B)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_			WOOD	_	PAINTED	_	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
A126)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN		_	_	WOOD	_	PAINTED	_	4	SEE NOTES BELOW & AT DOOR ELEVATIONS
A126A)	3'-0"	8'-0"	1 3/4"	WOOD	A1		_			V D					SEE NOTES BELOW & AT DOOR ELEVATIONS
(A126B)	3'-0"	8'-0"	1 3/4"	WOOD	A1	SI	_			V D		PAINTED			SEE NOTES BELOW & AT DOOR ELEVATIONS
(A127)	3'-0"	8'-0"	1 3/4"	WOOD	A1	21/	_			V D		P/	-		SEE NOTES BELOW & AT DOOR ELEVATIONS
(A128)	3'-0"	±8'-0"	1 3/4"	WOOD	A1	TAIN- LE				EXING		REEIM	_		SEE NOTES BELOW & AT DOOR ELEVATIONS

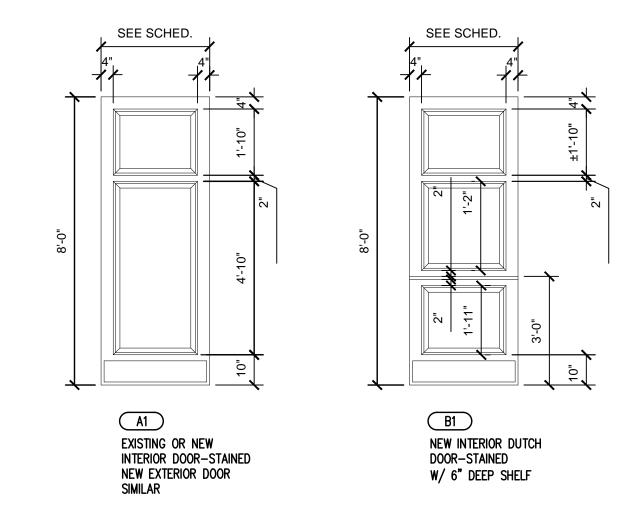
									/	$\overline{}$					
							DOOR S	<u>SCHE</u> DÚI	<u>_E</u> EXI	<u>STING BU</u>	<u>JILDING</u>	<u>'B'</u>			
			DC	OOR						MF					
MARK		SIZE			TVDE			-/\{			TVDE		RE R. NG	HARDWARE	REMARKS
	WIDTH	HEIGHT	THICKNESS	MATERIAL	TYPE		HE.	JAME		M ERIAL	TYPE	FINI			
(B100)	3'-0"	±8'-0"	1 3/4"	WOOD	A1	ALE				ESTING	\-	REF SH	\ \-	1	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B101)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	/	-	_	WOOD		PAINTED	_	4	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B102)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	/_	_	_	WOOD	- \	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B103)	PR. 2'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	/-	_	-	WOOD	-	PAINTED	-	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B104)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	/ -	_		WOOD	_	PAINTED	_	4	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B104A)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN		_	_	WOOD	-	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B104B)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	-	PAINTED	_	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B105)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIM		_	-	WOOD	-	PAINTED	_	9	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B105A)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN		_		WOOD	-	PAINTED	_		SEE NOTES BELOW & AT DOOR ELEVATIONS
(B105B)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN		_		WOOD	_	PAINTED		3	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B106) (B108)	3'-0" 3'-0"	8'-0" 8'-0"	1 3/4"	WOOD WOOD	A1 /	STAIN STAIN		_		WOOD	_	PAINTED PAINTED		<u> </u>	SEE NOTES BELOW & AT DOOR ELEVATIONS SEE NOTES BELOW & AT DOOR ELEVATIONS
(B108A)	3'-0"	8'-0"	1 3/4"	WOOD	A1 A1	STAIN				WOOD	_	PAINTED		7	SEE NOTES BELOW & AT DOOR ELEVATIONS SEE NOTES BELOW & AT DOOR ELEVATIONS
(B108B)	2'-8"	8'-0"	1 3/4"	WOOD	Δ1	STAIN				WOOD		PAINTED		7	SEE NOTES BELOW & AT DOOR ELEVATIONS SEE NOTES BELOW & AT DOOR ELEVATIONS
(B108C)	PR. 1'-6"	8'-0"	1 3/4"	WOOD	/ ₁ / ₁ / ₁	STAIN		_		WOOD	_	PAINTED	_ \	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B100C)	PR. 1'-6"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_		WOOD	_	PAINTED	_	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B110)	PR. 1'-6"	8'-0"	1 3/4"	WOOD	A1	STAIN		_		WOOD	_	PAINTED	_	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B111)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	_	PAINTED	_	\	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B111A)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	_	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B111B)	2'-8"	8'-0"	1 3/4"	WØOD	A1	STAIN	_	_	_	WOOD	_	PAINTED	_	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B111C)	PR. 1'-6"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	_	PAINTED	_	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B112A)	2'-8"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	_	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B117)	3'-0"	8'-0"	1 3/4" /	WOOD	A1	STAIN	_	_	_	WOOD	_	PAINTED	_	4	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B117A)	3'-0"	8'-0"	1 3/4"/	WOOD	A1	STAIN	_	_	_	WOOD	_	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B117B)	2'-8"	8'-0"	1 3/4	WOOD	A1	STAIN	_	_	_	WOOD	-	PAINTED	_	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B117C)	PR. 1'-6"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	_	PAINTED	_	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B118)	PR. 1'-6"	8'-0"	1/3/4"	WOOD	A1	STAIN	-	_	-	WOOD	_	PAINTED	-	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B119)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	-	_	-	WOOD	_	PAINTED	-	4	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B119A)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	_	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B119B)	2'-8"	8'-9"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	_	PAINTED	_	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B119C)	PR. 1'-6"	8'⁄-0"	1 3/4"	WOOD	A1	STAIN	=	_	=	WOOD	_	PAINTED	_	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B120)	3'-0"	8'-0"	1 3/4"	HOLLOW MTL.		PAINT	_	_	_	HOLLOW MTL.	-	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B121)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	-	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B122)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	-	PAINTED	_	4	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B122A)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN		_	_	WOOD	-	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B122B)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	-	WOOD	-	PAINTED	_	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B123)	<i>5</i> ′−0"	8'-0"	1 3/4"	WOOD	A1	STAIN	-	-	-	WOOD	-	PAINTED	_	4	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B123A)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	-	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B123B)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	-	PAINTED	_	3	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B124)	PR. 2'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	-	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B1/25)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	-	PAINTED	_	4	SEE NOTES BELOW & AT DOOR ELEVATIONS
(B126)	3'-0"	±8'-0"	1 3/4"	WOOD	A1	\$TAIN-SEALED	-	_		EXISTING	_	REFINISH	_	1 1	SEE NOTES BELOW & AT DOOR ELEVATIONS

DOOR SCHEDULE GENERAL NOTES:

- I. FIELD VERIFY ALL DOOR DIMENSIONS-COORDINATE WITH OWNER AND ARCHITECT
- COORDINATE WITH OWNER AND ARCHITECT FOR FINAL DOOR TYPES, DOOR DIMENSIONS, DOOR MATERIAL TYPES & COLOR TYPES & FINISH TYPES.
- FIELD VERIFY ALL CONDITIONS, OPENING SIZES, ETC. BEFORE FABRICATION, MANUFACTURING, OR INSTALLATION OF ALL DOORS.
 COORDINATE WITH LOCAL JURISDICTION FOR TEMPERED GLASS REQUIREMENTS FOR WINDOWS ADJACENT TO DOORS, SPECIFICALLY, THE DIMENSION FROM DOOR TO WINDOW DISTANCE.
- ALL DOOR HARDWARE TO BE ADA TYPE LEVER HARDWARE AS REQUIRED BY LOCAL JURISDICTION AND PER IBC REQUIREMENTS COORDINATE WITH OWNER FOR TYPE AND LOCATION OF PRIVACY AND/PASSAGE TYPE HARDWARE FOR EACH DOOR.
- 6. DOOR NUMBERS CORRESPOND TO THE ROOM NUMBERS ASSOCIATED WITH.



	DOOR SCHEDULE -EXISTING BUILDING 'D'														
			DC	OOR					FR	AME					
MARK		SIZE		MATERIAL	TYPE	FINISH		DETAILS		MATERIAL	TYPE	FINISH	FIRE RATING	HARDWARE	REMARKS
	WIDTH	HEIGHT	THICKNESS				HEAD	JAMB	SILL		111 L				
D100	3'-0"	±8'-0"	1 3/4"	WOOD	A1	STAIN-SEALED	_	-	-	EXISTING	_	REFINISH	_	1	SEE NOTES BELOW & AT DOOR ELEVATIONS
(D105)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	_	PAINTED	_	4	SEE NOTES BELOW & AT DOOR ELEVATIONS
(D105A)	3'-0"	8'-0"	1 3/4"	HOLLOW MTL.	FLAT PANEL	PAINT	-	_	_	HOLLOW MTL.	-	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(D106)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	-	_	-	WOOD	-	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(D107)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	-	_	_	WOOD	_	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(D108)	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	-	_	_	WOOD	-	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(D108A)	PR. 2'-6"	8'-0"	1 3/4"	HOLLOW MTL.	FLAT PANEL	PAINT	_	_	_	HOLLOW MTL.	-	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
D110	3'-0"	±8'-0"	1 3/4"	WOOD	A1	STAIN-SEALED	_	-	_	EXISTING	-	REFINISH	_	1	SEE NOTES BELOW & AT DOOR ELEVATIONS
D113	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	-	_	WOOD	-	PAINTED	_	4	SEE NOTES BELOW & AT DOOR ELEVATIONS
(D113A)	2'-8"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	-	_	WOOD	-	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
(D113B)	3'-0"	±8'-0"	1 3/4"	WOOD	A1	STAIN-SEALED	_	_	_	EXISTING	_	REFINISH	_	1	SEE NOTES BELOW & AT DOOR ELEVATIONS
D113C	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	-	_	WOOD	-	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
D114	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	-	_	_	WOOD	-	PAINTED	_	4	SEE NOTES BELOW & AT DOOR ELEVATIONS
(D114A)	3'-0"	8'-0"	1 3/4"	HOLLOW MTL.	FLAT PANEL	PAINT	_	_	_	HOLLOW MTL.	-	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
D115	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	-	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
D115A	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	-	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
D116	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	-	PAINTED	_	4	SEE NOTES BELOW & AT DOOR ELEVATIONS
D117	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	_	PAINTED	_	4	SEE NOTES BELOW & AT DOOR ELEVATIONS
D118	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	_	_	WOOD	-	PAINTED	_	2	SEE NOTES BELOW & AT DOOR ELEVATIONS
D119	3'-0"	8'-0"	1 3/4"	WOOD	A1	STAIN	_	-	_	WOOD	-	PAINTED	_	4	SEE NOTES BELOW & AT DOOR ELEVATIONS



DOOR TYPE ELEVATIONS

SCALE: 3/8" = 1'-0"

Donald L. Welch Architect

7533 Sandy Land midvale utah 8 801-548-6391 dwelch5977®m

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC 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 I. 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.



project: Tenant Finish for

Brighton Recovery Campus

4905, 4911, 4915, 4925, 4931, 4953 South 900 East Salt Lake County, Utah

date

DECEMBER 28, 2016

JANUARY 3, 2017
SECOND SUBMITTAL FOR
EACH SEPERATE BUILDING PARCEL

JANUARY 6, 2017

ADDENDUM #2-BUILDING 'C'

JANUARY 17, 2017

ADDENDUM #4-BUILDING 'B'
FEBRUARY 24, 2017

ADDENDUM #7-BUILDING 'A'
BUILDING 'F', 'B', 'C', 'D', 'E'

MARCH 20, 2017

8 ADDENDUM #8-BUILDING 'A'
BUILDING 'F'

project no:
drawn by:
checked by:
title

Door Schedule

Schedule sheet

A7 1A

				Н	ARD'	WARI	E SC	HEDU	LE								
HARDWARE SET	CARD KEY LOCK		ALARM W/ KEY CARD	KEYED LOCK	PRIVACY SET	PASSAGE SET	VIEWER	PANIC BAR	DOOR CLOSER	HINGES	MAGNETIC LOCK	DOOR SWEEP	SMOKE SEALS	DOOR STOP	REMARKS	HARDWARE SET	NOTES
1	*	*	*					HANDLE *	*						3 PAIR OF DOOR HINGES - SEE NOTE 1 W/ WEATHER SEAL - SEE NOTE 2	-	1. 1-1/2 PAIR SPRING HINGES.
2				*	*									*	3 PAIR OF DOOR HINGES	2	
3						*								*	3 PAIR OF DOOR HINGES	3	2. ALL DOORS W/ CLOSERS TO HAVE
4						*			*					*	3 PAIR OF DOOR HINGES - SEE NOTE 2	4	BALL BEARING HINGES.
5	*	*	*											* (2)	6 PAIR OF DOOR HINGES - SEE NOTE 2; ELECTRIC STRIKE; DUTCH DOOR	5	
6				*	*									* (2)	6 PAIR OF DOOR HINGES	6	3. WEATHER PROOF CARD KEY LOCK TO BE MOUNTED ON DOOR STYLE.
7				*	*										POCKET DOOR HARDWARE	7	TO BE MODITIES ON BOOK OFFICE.
8															W/ WEATHER SEAL - SEE NOTE 2	8	4. PROVIDE 2 REVERSE VIEWERS - 1
9															3 PAIR OF DOOR HINGES - SEE NOTE 2	9	@ 60" A.F.F. AND 1 @ 42" A.F.F.
10															3 PAIR OF DOOR HINGES - SEE NOTE 2	10	
11															MOTION SENSOR - PER MANUFACTURER	11	5. COORDINATE WITH DOOR MANUFACTURER SO CARD
12															MOTION SENSOR - PER MANUFACTURER	12	OVERRIDE WHEN VESTIBULE SIDE
13															PUNCH PAD ACCESS - SEE NOTE 2	13	MOTION SENSOR IS OFF. LOBBY
14															3 PAIR OF DOOR HINGES - SEE NOTE 2	14	SIDE MOTION SENSOR TO REMAIN
15															3 PAIR OF DOOR HINGES	15	ACTIVE AT ALL TIMES.
16															3 PAIR OF DOOR HINGES	16	
17															3 PAIR OF DOOR HINGES	17	

NOTES: 1. ALL DOOR HARDWARE SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE.

- 2. VERIFY REQUIREMENTS WITH LOCAL CODES-PROVIDE 20 MINUTE DOORS @ GUEST ROOMS, IF LOCAL JURISDICTION REQUIRES IT..
- 3. EXTERIOR H. METAL FRAMES SHALL BE 14 GAUGE, UNLESS NOTED OTHERWISE.

Acceptable Equivalents

Stanley, McKinney

Sargent, Yale

Onity, Vingcard

Sargent, Dorma

Systems

Pemko, Zero, Door and Hardware

4. WHERE SMOKE DOOR IS REQUIRED BY LOCAL AUTHORITIES, A MAGNETIC HOLD OPEN DEVICE SHALL BE USED WHICH IS COORDINATED WITH THE FIRE ALARM SYSTEM.

> Comply with Owner's instructions for master keying and, except as otherwise indicated, provide individual change key for each lock which is not designated to be keyed alike with a group.

Permanently inscribe each key with number or lock that identifies cylinder

Key Quantity: Furnish three change keys for each lock; five master keys for each master system; and five grandmaster keys for each grandmaster system.

Rockwood, Quality, Taymor

Provide one system controller.

Provide one spare lock with keys. Adams-Rite, Von Duprin

Peep Sight Door Guard Quality, Door & Hardware Systems, Inc.

KABA/ILCO System E-760

Surface Bolts Quality Frame Smoke Seals DSHI #105 "Cush N Seal" by: None Door & Hardware

NGP, Stanley

Sargent

Base Manufacturer

Hager

LCN

lves

System (716) 235-8543

Door Silencers Glynn-Johnson Door & Hardware Systems, Inc. Electric Strike Folger Adams None

CYLINDERS AND KEYING

HARDWARE MANUFACTURERS

Lockset (Standard Type) Schlage

<u>Hardware Item</u>

Spring Hinges

System)

Exit Devices

Closer

Lockset (Electronic

Stops, Flush Bolts

Weatherstrip, Door

Sweeps, Thresholds

Keying System: Master keying must be in accordance with the National Hardware Council's recommendations for hotels. For Manual Locks:

Equip locks with manufacturer's standard 6-pin tumbler cylinders.

Equip locks with manufacturer's interchangeable core cylinders operable by a control

manufacturer key symbol, and notation "DO NOT DUPLICATE".

Key Material: Provide keys of nickel silver only.

Deliver keys to Owner's representative.

For Electronic Locks:

Provide card keys as required to comply with master keying.

NOTE: SIGNAGE TO BE LOCATED AT ALL

ROOM, JANITOR'S CLOSETS, STORAGE

ROOMS, OFFICES, DATA ROOM, BREAK

LOCAL JURISDICTION.

A SIGN STATING 'EXIT' IN VISUAL CHARACTERS,

COMPLYING WITH ICC A117.1 SHALL BE PROVIDED

RAISED CHARACTERS, AND BRAILLE, AND

PASSAGEWAY AND THE EXIT DISCHARGE.

ADJACENT TO EACH DOOR TO AN EXIT

PUBLIC RESTROOMS, LABORATORY, MED

ROOMS, ETC. AS REQUIRED BY OWNER AND

General: Supplier will supply three reusable card keys per lock (or three keys for standard locks) and three sets of master keys.

Keying shall be as follows:

Each room shall be keyed separately.

A master key for all guest rooms.

A master key for all rooms.

A master key to open guest room deadbolts. Room keys shall open exterior doors.

Keying Schedule – Submit keying schedule to Owner for approval prior to fabrication. Keying to have 3 levels of security.

> 703.3.4 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.3.3 Case. Characters shall be uppercase.

703.3.5 Character Height. The uppercase letter "I" shall be used to determine the allowable height of all characters of a font. The height of the uppercase letter "I" of the font, measured vertically from the baseline of the character, shall be 5/6 inch (16 mm) minimum, and 2 inches (51 mm) maximum.

EXCEPTION: Where separate raised and visual characters with the same information are provided, the height of the raised uppercase letter "I" ■ shall be permitted to be ½ inch (13 mm) minimum.

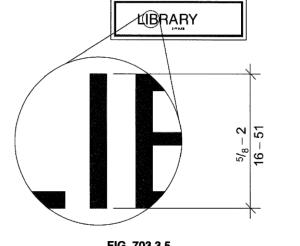


FIG. 703.3.5 CHARACTER HEIGHT

703.3.6 Character Width. The uppercase letter "O" shall be used to determine the allowable width of all characters of a font. The width of the uppercase letter "O" of the font shall be 55 percent minimum and 110 percent maximum of the height of the uppercase "I" of the font.

703.3.7 Stroke Width. Raised character stroke width shall comply with Section 703.3.7. The uppercase letter "I" of the font shall be used to determine the allowable stroke width of all characters of a font. 703.3.7.1 Maximum. The stroke width shall be 15

percent maximum of the height of the uppercase letter "I" measured at the top surface of the character, and 30 percent maximum of the height of the uppercase letter "I" measured at the base of

the character. 703.3.7.2 Minimum. When characters are both visual and raised, the stroke width shall be 10 percent minimum of the height of the uppercase letter

5. NOT USED

6. ALL EXTERIOR DOORS TO HAVE THRESHOLDS. DOOR SWEEPS. & WEATHER SEALS.

7. CONTRACTOR TO VERIFY ALL DOOR FRAME THROAT DIMENSIONS.

8. CONTRACTOR TO VERIFY KEY SCHEDULE WITH OWNER PRIOR TO PURCHASING LOCKS.

**NOTE: THE LOCK FOR HARDWARE SETS 2, 6 & 7 WILL NOT PREVENT THE

OPERATION OF THE DOOR FROM THE EGRESS SIDE, WHEN ENGAGED.

PART 3 - EXECUTION

INSPECTION

Verify that doors and frames are ready to receive work and dimensions, are as indicated on Shop Drawings, and as instructed by the manufacturer.

Beginning of installation means acceptance of existing conditions.

INSTALLATION

Install each hardware item in compliance with manufacturer's instructions and recommendations. Wherever cutting and fitting is required to install hardware onto or into surfaces which are later to be painted or finished in another way, install each item completely and then remove and store in a secure place during the finish application. After completion of the finished, reinstall each item. Do not install surface-mounted items until finishes have been completed on the substrate.

Conform to ANSI A117.1 and ADAAG for positioning requirements for the Disabled. All door closers shall be installed out of public sight wherever possible.

and other contaminants. After cleaning, protect work against damage.

All doors off corridors and all communicating doors to have frame-mounted smoke seals.

FASTENINGS Furnish proper screws, hex bolts, through bolts, etc., as required to make secure attachment of each item to the material it is installed on.

PROTECTION AND CLEANING After installation, clean metal surfaces on both interior and exterior of all mortar, plaster, paint

nearest adjacent wall. Signs containing raised characters and braille shall be located so that a clear floor area 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the raised characters is provided beyond the arc of any door swing between the closed position and 45 degree open position. **EXCEPTION:** Signs containing raised characters and braille shall be permitted on the push side of doors with closers and without hold-open devices. 703.3.12 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background, or dark characters

on a light background.

EXCEPTION: Where separate raised characters and visual characters with the same information are provided, raised characters are not required to have nonglare finish or to contrast with their background.

703.4 Braille

Dot base diameter

703.4.1 General. Braille shall be contracted (Grade 2) braille and shall comply with Section 703.4.

Measurement range

Distance between corresponding dots from one cell directly below¹

Distance between two dots in the same cell

Distance between corresponding dots in adjacent cells¹

703.4.2 Uppercase Letters. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, or acro-

703.4.3 Dimensions. Braille dots shall have domed or rounded shape and shall comply with Table 703.4.3.

703.4.4 Position. Braille shall be below the corresponding text. If text is multilined, braille shall be placed below entire text. Braille shall be separated 3 inch (9.5 mm) minimum from any other raised characters and ³/₈ inch (9.5 mm) minimum from raised borders and decorative elements. Braille provided on elevator car controls shall be separated $\frac{3}{16}$ inch (4.8) mm) minimum either directly below or adjacent to the corresponding raised characters or symbols.

703.4.5 Mounting Height. Braille shall be 48 inches (1220 mm) minimum and 60 inches (1525 mm) maximum above the floor, measured to the baseline of the braille cells.

EXCEPTION: Elevator car controls shall not be required to comply with Section 703.4.5.

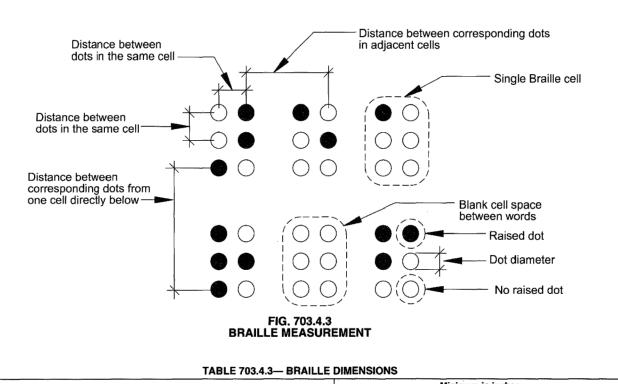
0.059 (1.5 mm) to 0.063 (1.6 mm)

0.090 (2.3 mm) to 0.100 (2.5 mm)

0.241 (6.1 mm) to 0.300 (7.6 mm)

0.025 (0.6 mm) to 0.037 (0.9 mm)

0.395 (10.0 mm) to 0.400 (10.2 mm)



FINAL ADJUSTMENT

Whenever hardware is installed more than one month prior to acceptance or occupancy of a space or area, return during the week prior to acceptance or occupancy and make a final check and adjustment of all hardware items in such space or area. At the completion of the project, manufacturers' suppliers or representatives shall inspect their hardware and make any corrections required due to errors or improper installation.

Chapter 7. Communication Elements and Features

703.6.1 General. Symbols of accessibility shall com-

7703.6.2 Finish and Contrast. Symbols of accessi-

bility and their backgrounds shall have a non-glare

finish. Symbols of accessibility shall contrast with

their backgrounds, with either a light symbol on a

dark background or a dark symbol on a light back-

MEN

FIG. 703.5 PICTOGRAM FIELD

703.6 Symbols of Accessibility

ply with Section 703.6.

703.6.3 Symbols.

PART 4 - HARDWARE SCHEDULE See door and hardware schedule on drawings

ICC A117.1-2009

703.5 Pictograms.

703.5.1 General. Pictograms shall comply with Sec-703.5.2 Pictogram Field. Pictograms shall have a field 6 inches (150 mm) minimum in height. Characters or braille shall not be located in the pictogram

703.5.3 Finish and Contrast. Pictograms and their fields shall have a nonglare finish. Pictograms shall contrast with their fields, with either a light pictogram

on a dark field or a dark pictogram on a light field.

AREA OF BEEUGE

POSITION OF BRAILLE

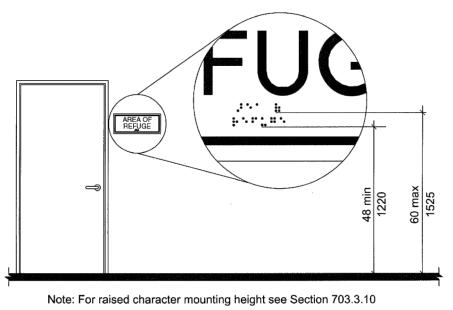


FIG. 703.4.5 HEIGHT OF BRAILLE CHARACTERS ABOVE FLOOR

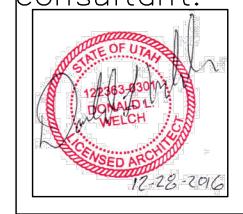
Welch rchitect ndy Donald Sar ale

рс 8

THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC REPRESENTATION & MODELS THEREOF, ARE PROPRIETARY & CAN NOT BI COPIED, DUPLICATED, OR COMMERCIALLY EXPLOITED IN WHOLE OR IN PART WITHOUT THE SOLE AND EXPRESS WRITTEN PERMISSION FROM DONALD I. WELCH

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.

konsultant:



project: Tenant Finish tor Brighton Recovery Campus

4905, 4911, 4915, 4925, 4931, 4953 South 900 East Salt Lake County, Utah

date **DECEMBER 28, 2016** revisions SECOND SUBMITTAL FOR EACH SEPERATE BUILDING PARCEL

JANUARY 6, 2017 2 Addendum #2—Building 'C JANUARY 17, 2017 <u>/ 4 \</u> addendum #4—Building 'b' FEBRUARY 24, 2017 ∆ ADDENDUM #7—BUILDING 'A' BUILDING 'F', 'B', 'C', 'D', 'E' MARCH 20, 201 $\sqrt{8}$ addendum #8-Building 'a'

project no: drawn by: checked by: title

sheet

Door Hardware & Specs.

				WIN	NDOW SCHEDULE-BUILI	DING 'B'			
MARK	SIZE WIDTH HEIGHT	HEAD HEIGHT	FRAME MATERIAL	TYPE	GLAZING	HEAD	DETAILS JAMB	SILL	REMARKS
(R(10)5)	5'-0" 5'-0"	MATCH EXIST.	ALUMINUM	FIXED-01/A7.2	1" INSULATED GLASS	_	_	_	WINDOW FRAME & CLASS TO MATCH EXISTING EXTERIOR WINDOWS
					•				
				WIN	IDOW SCHEDULE-BUILI	PING 'C'			
MARK	SIZE	HEAD	FRAME MATERIAL	TYPE			DETAILS		REMARKS
WARK	WIDTH HEIGHT	HEIGHT	FRAME MATERIAL		-GLAZING -	HEAD	JAMB	SILL	REMARNS
(\$10)	1'-10 1/2" 7'-9 1/2"	8'-1 1/2"	WOOD	FIXED-02/A7.2	3/0" TEMPERED GLASS		_	_	WINDOW FRAME TO MATCH DOOR FRAME
[[((10)3)	1'-10 1/2" 7'-9 1/2"	8'-1 1/2"	WOOD	FIXED-02/A7.2	3/" TEMPERED LASS	+ +)	_	-	WINDOW FRAME TO MATCH DOOR FRAME
(© 10)	1'-10 1/2" 7'-9 1/2"	8'-1 1/2"	WOOD	FIXED-02/A7.2	78" TEMPERED GLASS		_	1	WINDOW FRAME TO MATCH DOOR FRAME
((10)5)	1'-10 1/2" 7'-9 1/2"	8'-1 1/2"	WOOD	FIXED-02/A7.2	3/8" TEMPERED GLASS		_	_	WINDOW FRAME TO MATCH DOOR FRAME
((10)	1'-10 1/2" 7'-9 1/2"	8'-1 1/2"	WOOD	FIXED-02/A7.2	3/8" TERPHAED GLASS	Λ	_	_	WINDOW FRAME TO MATCH DOOR FRAME
(¢10)8 >	1'-10 1/2" 7'-9 1/2"	8'-1 1/2"	WOOD	EIXED-02/A7.2	TA" TEMPIRM GLASS		-		WINDOW FRAME TO MATCH DOOR FRAME
(¢11)	1'-10 1/2" 7'-9 1/2"	8'-1 1/2"	WOOD	FIXED-02/A7.2	3/8" TEMPERED GLASS	_	_	/	WINDOW FRAME TO MATCH DOOR FRAME
(C115)	1'-10 1/2" 7'-9 1/2"	8'-1 1/2"	WOOD	FIXED-02/A7.2	3/8" TEMPERED GLASS	_	_	_	WINDOW FRAME TO MATCH DOOR FRAME
(C11)	1'-10 1/2" 7-9 1/2"	8'-1 1/2"	WOOD	FIXED-02/A7.2	3/8" TEMPERED GLASS	_	_	_	WINDOW FRAME TO MATCH DOOR FRAME
(126)	1'-10 1/2" 7'-9 1/2"	8'-1-1/2"	WOOD	FIXED-02/A7.2	3/8" TEMPERED GLASS	_	_	_	WINDOW FRAME TO MATCH DOOR FRAME
(127 S	10 1/2" 7'-9 1/2"		WOOD	FIXED-03/A7.2	3/8" TEMPERED GLASS	_	_	_	WINDOW FRAME TO MAICH DOOR FRAME
(C128)	, ,	, , ,	WOOD	FIXED-02/A7.2	3/8" TEMPERED GLASS	_	_	_	WINDOW FRAME TO MATCH DOOR FRAME
(\$130)	10-1/2" 7'-9 1/2"		WOOD	FIXED-03/A7.2	3/8" TEMPERED GLASS	_	_	_	WINDOW FRAME TO MATCH DOOR FRAME
(13)			WOOD	FIXED-02/A7.2	3/8" TEMPERED GLASS	_	_	_	WINDOW FRAME TO MATCH DOOR FRAME
	, ,	· · · · ·			•		•		
				WIN	NDOW SCHEDULE-BUILI	DING 'D'			
	SIZE	HEAD					DETAILS		
MARK	WIDTH HEIGHT	HEIGHT	FRAME MATERIAL	TYPE	GLAZING	HEAD	JAMB	SILL	REMARKS
(Ø11)3)	12'-0" 5'-0"	8'-1 1/2"	WOOD	FIXED-05/A7.2	3/8" PLATE GLASS		-	_	WINDOW FRAME TO MATCH DOOR FRAME

					WI	POWSCHEDER E-BURG	ING 'E'			
MARK	SI	ZE	HEAD	FRAME MATERIAL	TYPE	CL A 7IN C		DETAILS		REMARKS
WAINN	WIDTH	HEIGHT	HEIGHT	TIVAMIL MATERIAL			HEAD	JAMB	SILL	NEMANNS
⟨ ₹10 ¾ ⟩	5'-0"	5'-0"	MATCH EXIST.	ALUMINUM	FIXED-01/A7.2	I" INSULATID GLASS		_	_	WINDOW FRAME & GLASS TO MATCH EXISTING EXTERIOR WINDOWS
(E125)	5'-0"	5'-0"	8'-1 1/2"	WOOD	FIXED-04/A7.2	3/8" PLATE GLASS	_	_	_	WINDOW FRAME TO MATCH DOOR FRAME
(E128)	5'-0"	5'-0"	8'-1 1/2"	WOOD	FIXED-04/A7.2	3/8" PLAJE GLASS	_	_	_	WINDOW FRAME TO MATCH DOOR FRAME
	WINDOW SCHEI	OULE CENER/	N NOTES:			SUBIMILIA	\L	·		

3/8" PLATE GLASS

3/8" TEMPERED GLASS

_

_

_

_

_

_

_

_

_

_

_

_

_

_

WINDOW SCHEDULE GENERAL NOTES:

(©11) 2'-10 1/2" 7'-9 1/2" 8'-1 1/2"

5'-0" | 8'-1 1/2'

7'-9 1/2" | 8'-1 1/2

FIELD VERIFY ALL WINDOW DIMENSIONS—COORDINATE WITH OWNER AND DESIGNER.

WOOD

WOOD

WOOD

WOOD

WOOD

WOOD

WOOD

- COORDINATE WITH OWNER AND DESIGNER FOR FINAL WINDOW TYPES, WINDOW MATERIAL TYPES & COLOR TYPES & FINISH TYPES.
- FIELD VERIFY ALL CONDITIONS, OPENING SIZES, ETC. BEFORE FABRICATION, MANUFACTURING, OR INSTALLATION OF ALL WINDOWS.
- COORDINATE WITH LOCAL JURISDICTION FOR TEMPERED GLASS REQUIREMENTS FOR WINDOWS ADJACENT TO DOORS, SPECIFICALLY, THE DIMENSION FROM DOOR TO WINDOW DISTANCE.
- PROVIDE TEMPERED GLASS AT WINDOWS, PER IBC SECTION 2406.4, WITHIN 2'-0" OF DOORS AT LANDINGS AND ADJACENT TO STAIRWAYS.

FIXED-05/A7.2

FIXED-06/A7.2

FIXED-06/A7.2

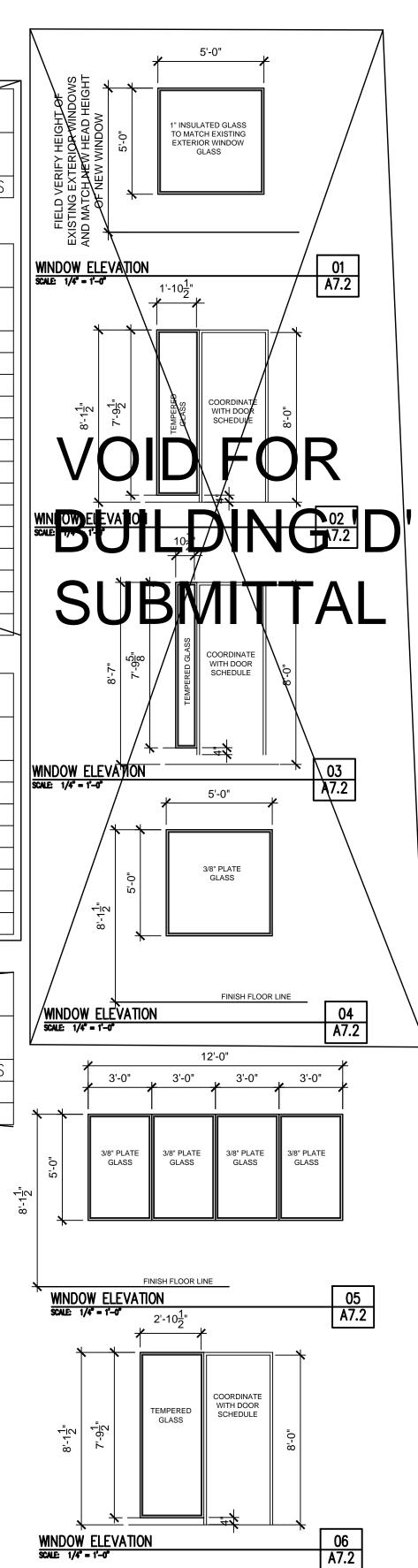
FIXED-06/A7.2

FIXED-06/A7.2

FIXED-06/A7.2

FIXED-06/A7.2

WINDOW NUMBERS CORRESPOND TO THE ROOM NUMBERS ASSOCIATED WITH.



WINDOW FRAME TO MATCH DOOR FRAME

Sandy Land Lane vale utah 84047 Welch Donald L. We Architect

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, CRAPHIC 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 I. WELCH ARCHITECT

THESE DRAWINGS ARE AVAILABLE FOR LIMITED REVIEW AND EVALUATION BY CLIENTS. CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNEL ONLY IN ACCORDANCE WITH THIS NOTICE.

consultant:



project: Tenant Finish

Brighton Recovery Campus

4905, 4911, 4915, 4925, 4931, 4953 South 900 East Salt Lake County, Utah

date

DECEMBER 28, 2016 revisions

JANUARY 3, 2017 SECOND SUBMITTAL FOR EACH SEPERATE BUILDING PARCEL JANUARY 6, 2017 2 ADDENDUM #2-BUILDING 'C' JANUARY 17, 2017

4 ADDENDUM #4-BUILDING 'B'
FEBRUARY 24, 2017
ADDENDUM #7-BUILDING 'A'
BUILDING 'F', 'B', 'C', 'D', 'E'

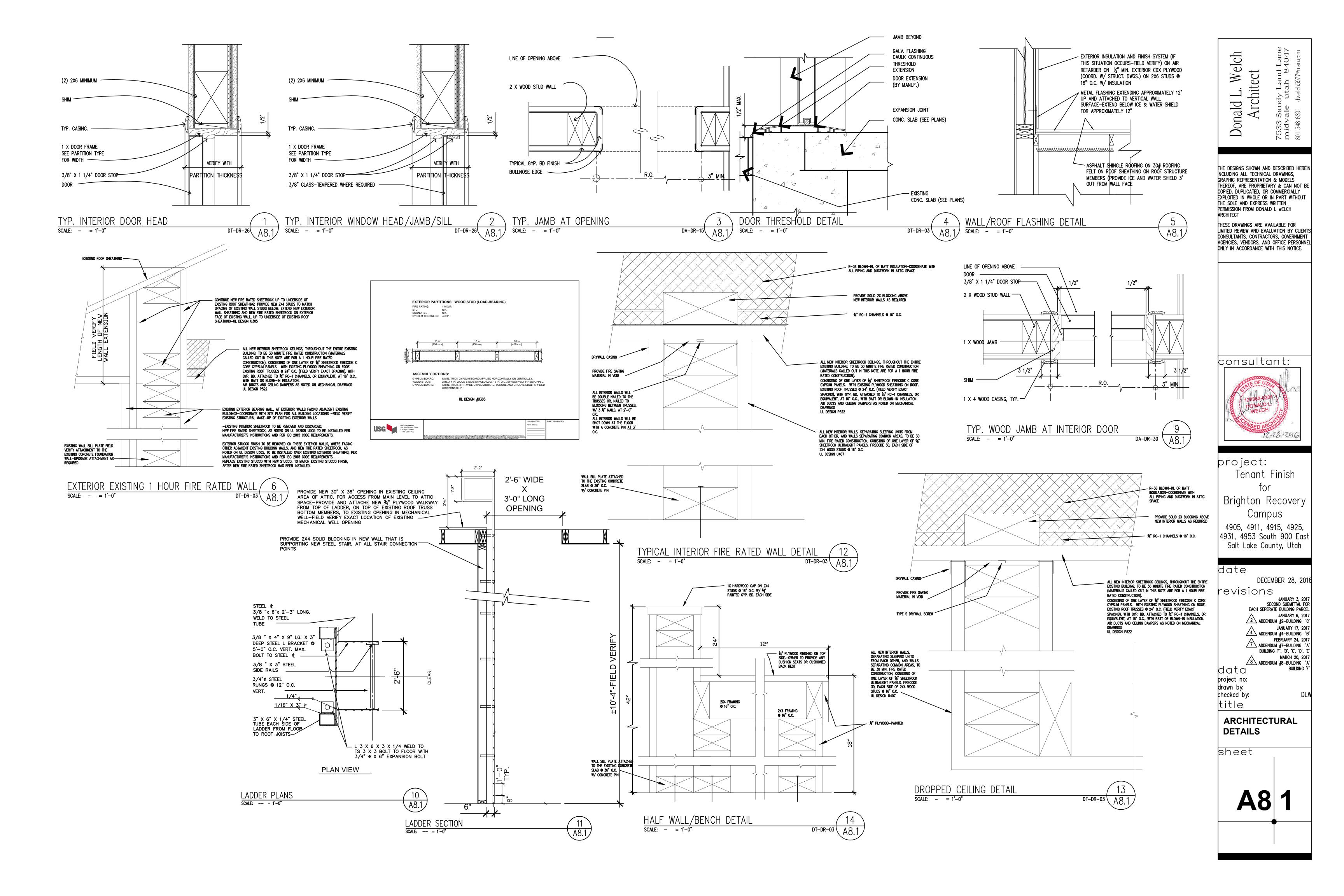
MARCH 20, 2017
ADDENDUM #8-BUILDING 'A'
BUILDING 'A'

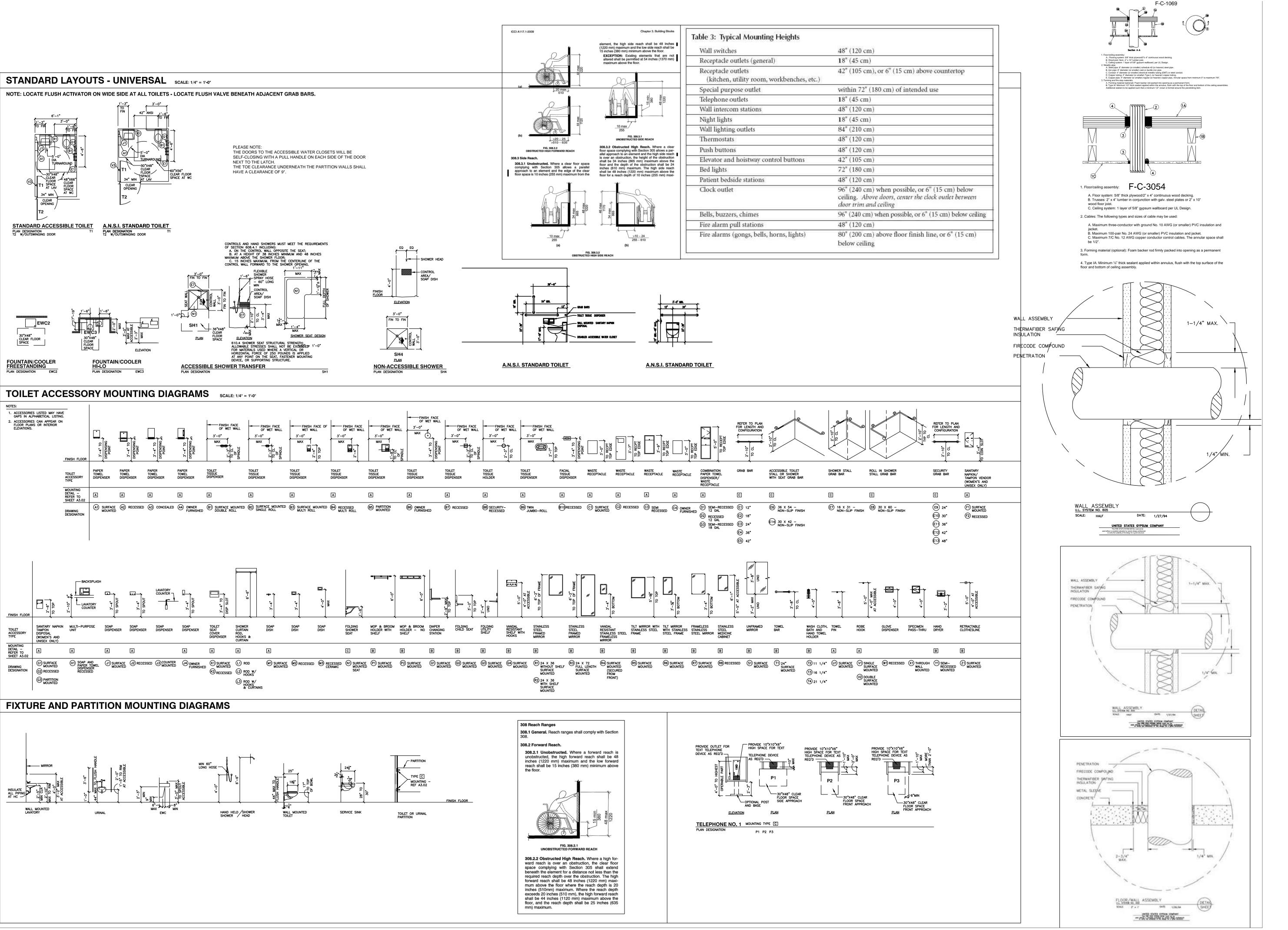
data project no: drawn by: checked by: title

> Window Schedule

sheet

A7 2





Welch Architect Donald L

7533 Sandy Land Lane midvale utah 84047 801-548-6391 dwelch5977®msn.com

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC REPRESENTATION & MODELS THEREOF, ARE PROPRIETARY & CAN NOT BI COPIED, DUPLICATED, OR COMMERCIALLY EXPLOITED IN WHOLE OR IN PART WITHOUT THE SOLE AND EXPRESS WRITTEN PERMISSION FROM DONALD I. WELCH ARCHITECT

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

consultant:

project: Tenant Finish for

Brighton Recovery Campus

4905, 4911, 4915, 4925, 4931, 4953 South 900 East Salt Lake County, Utah

date DECEMBER 28, 2016 revisions

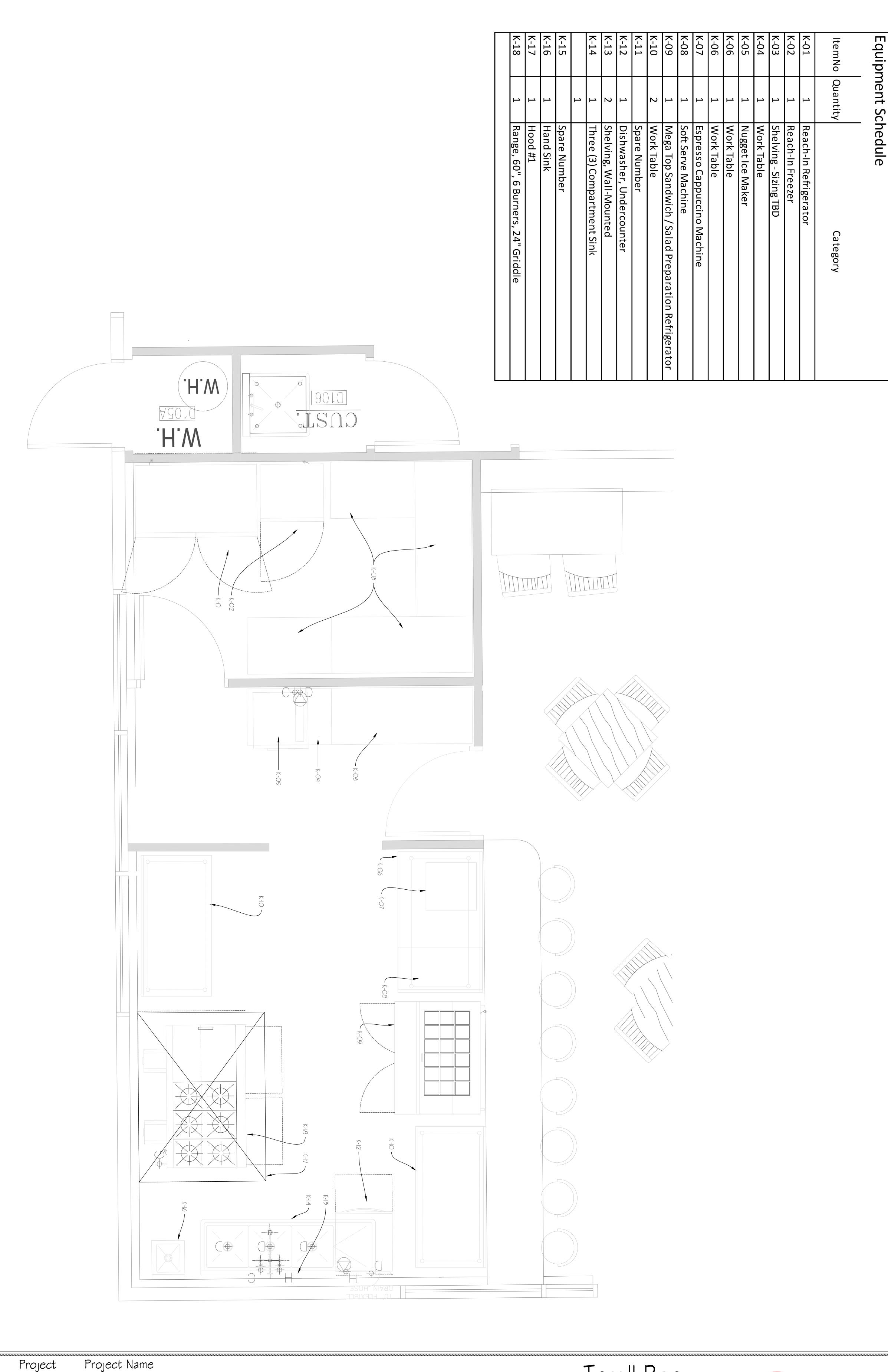
JANUARY 3, 2017 SECOND SUBMITTAL FOR EACH SEPERATE BUILDING PARCEL JANUARY 6, 2017 $\sqrt{2}$ Addendum #2-Building JANUARY 17, 2017 4 ADDENDUM #4-BUILDING 'E FEBRUARY 24, 2017 $\sqrt{7}$ addendum #7-Building $^{\prime\prime}$ BUILDING 'F", 'B', 'C', 'D', ' MARCH 20, 2017 8 ADDENDUM #8-BUILDING

project no: drawn by: checked by: title

ACCESSIBLE & FIRE PENETRATION DETAILS

sheet

A8



20161227 03-231 K-01

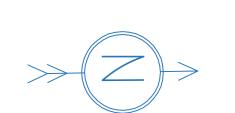
Date

ALL RIGHTS RESERVED, Terrill J. Roe - COPYRIGHT

This drawing is classified as part of an unpublished collection of visual art. Under the 1978 copyright act, it is an exclusive original work of authorship. None of the pictorial, graphic or technical charts or drawings depicted on this sheet may be reproduced or traced in any method by ozalid, or photocopying, stored in a retrieval system, or transmitted in any form or by any means electronic, mechanical or otherwise without the express prior written permission of the architect

Brighton Recovery - Overall Layout

FLOOR PLAN





Restaurant Sales Design Consultant

801-834-8896 terrillr@standardrestaurant.com



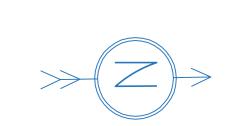
3500 S West Temple Salt Lake City, Utah 84115

	Model	Voltage Phase A	Cycle Hp	Connection Type	ElectricalConnection Height	Cold Water (in)			Indirect Waste Size			GasConn. Height(in)	Gas MBTU
Beverage	Air HRP2-1S	115 1 8.	4 60 1/3										
Beverage	Air FB23-1S	115 1 1().9 60 1/2										
Custom	SHELVING												
Eagle Gro	up BPT-2436KL-X												
Scotsmar	N0422A-1	115 1 15	6.2 60			3/8"			3/4"				
Eagle Gro	up T3648B												
Eagle Gro	up T3660EB-BS												
	gro EPOCAS1	110 1 15	60	Cord & Plug 5-15P									
ElectroFr	eeze CS8	208-230 1 16	i.0 60 (2)3/4	6-20P									
	Air SPE48-18M	115 1 5	60 1/4	Cord & Plug 5-15P									
	up BPT-3060FL-X												
Jackson V	VWS AVENGER HT-E	208 1 38	8.8 60 1				1/2"		1-3/8"				
Eagle Gro	up WS1236-16/4												
Eagle Gro		_											
T&S Brass	B-0133-CCB					1/2"	1/2"						
Eagle Gro	up HSA-10-F-1X									1-1/2"			
Captive A	ire H00D #1												
iddle Imperial	IR-6-G24										ω		302.0
Reach-In Refrigerator Reach-In Freezer Shelving - Sizing TBD Work Table Nugget Ice Maker Work Table Espresso Cappuccino Machir Soft Serve Machine Mega Top Sandwich / Salad P Work Table Spare Number Dishwasher, Undercounter Shelving, Wall-Mounted Three (3) Compartment Sink Fland Sink Hood #1 Range, 60", 6 Burners, 24" Gr	ne Preparation Refrigerator	Mfr Beverage Air Custom Eagle Group	Mfr Model Voltage Phase Beverage Air HRP2-1S 115 1 Beverage Air FB23-1S 115 1 Custom SHELVING 115 1 Eagle Group BPT-2436KL-X 115 1 Scotsman N0422A-1 115 1 Eagle Group T3648B 115 1 Eagle Group T3660EB-BS 110 1 Rancilio/Egro EPOCA S1 110 1 ElectroFreeze CS8 208-230 1 Beverage Air SPE48-18M 115 1 Eagle Group BPT-3060FL-X 208-230 1 Eagle Group WS1236-16/4 208 1 Eagle Group BPS-1854-3-18L-FC-X 1 1 TaxS Brass B-0133-CCB 1 1 Eagle Group HSA-10-F-1X 1 1 Captive Aire HOOD #1 Innperial IR-6-G24	Mifr Model Voltage Phase Amps Cycle Hp Beverage Air HRP2-1S 115 1 8.4 60 1/3 Beverage Air FB23-1S 115 1 10.9 60 1/2 Custom SHELVING 115 1 10.9 60 1/2 Eagle Group BPT-2436KL-X 115 1 10.9 60 1/2 Scotsman N0422A-1 115 1 15.2 60 5 Eagle Group T3660EB-BS 1 15.2 60 5 Rancilio/Egro EPOCA S1 110 1 15.0 60 2)3/4 Beverage Air SPE48-18M 115 1 5 60 1/4 Eagle Group BPT-3060FL-X 1 5 60 1/4 Eagle Group WS1236-16/4 1 38.8 60 1 Eagle Group HSA-10-F-1X 38.8 60 1 Eag	Mfr Model Voltage Phase Amps Cycle Hp Kw Type Beverage Air HRP2-1S 115 1 8.4 60 1/3 Type Custom SHELVING 115 1 10.9 60 1/2 Type Eagle Group BPT-2436KLX 115 1 10.9 60 1/2 17 Scotsman NO422A-1 115 1 15.2 60 1/2 17 Eagle Group T3660EB-BS 1 15 60 20	Mifr Model Voltage Phase Amps Cycle Hp Kw Connection Type NEMA Height Beverage Air HRP2-1S 115 1 8.4 60 1/3 Height Beverage Air HRP2-1S 115 1 10.9 60 1/2 Height Custom SHELVING 1 10.9 60 1/2 Height Eagle Group BFL236KL-X 115 1 15.2 60 1/2 Height Scotsman N0422A-1 115 1 15.2 60 July 5-15P Eagle Group 13660EB-BS 1 15.2 60 Cord & Plug 5-15P Eagle Group 13660EB-BS 1 15.0 60 1/4 Cord & Plug 5-15P Beverage Air SPE48-18M 115 1 15.0 60 1/4 Cord & Plug 5-15P Beyerage Forup BPT-3060FL-X 38.8 0 1 Cord & Plug	Mffr Model Voltage Phase Amps Cycle Hp kw Connection Type NEMA Height Cold Water (in) Beverage Air FR23-1S 115 1 8.4 60 1/3 Mema Height Height Cold Water (in) Custom SHELVING 115 1 10.9 60 1/2 Mema Height Height Mater (in) Eagle Group BP1-2436KL-X 115 1 10.9 60 1/2 Mema Mema 3/8" Scotsman M0422A-1 115 1 15.2 60 Mema Mema 3/8" Eagle Group T3660EB-BS 1 15.5 60 Mema 5-15p 3/8" Eagle Group T3660EB-BS 10 1 15.0 60 1/23/4 Cord & Plug 5-15p 3/8" Eagle Group BP7-3060FL-X 1 1 5.60 1/4 Cord & Plug 5-15p 5-15p 5-15p 5-15p 5-15p	Mff Model Voltage Phase Interface Cycle Hp Kw Connection Type RedricalConnection Cold Water (In) Cold Water Conn. Beverage Air HRP2-1S 115 1 8.4 60 1/3 Height Height(in) Custom SHELVING 115 1 10.9 60 1/2 Height Height(in) Scotsman W0422A-1 115 1 15.2 60 1/2 Height(in) 3/8" Eagle Group 136648B 115 1 15.2 60 1 4	MMF Model Woltage Phase Amps Cycle Hp Kw Connection Reverage Air HRP2-1S 11.5 1 8.4 60 1/3	Mir Model Voltage Phase Amps Cycle Hp Rw Connection Reverage Air H872-15 115 1 10.9 60 1/2 17/ppe Meght Height Cold Water (on) Height(in) Hot Water Conn. Indirect Waste Rage Group R34688 Rage Group R3660EA3 R3660EA3	Wife Model Voltage Phase Amps Cycle Hp KW Connection legist Cold Water (m) Cold Water (m) Cold Water (m) Hot Water (conn. Height (n) Hot Water Conn. Indirect Waste Direct Waste Beverage Air HRP2.3.5. 11.5 1 8.4 60.0 1/3 9.0 1/2 9.0 1/2 9.0 1/2 9.0 1/2 9.0 1/2 9.0 1/2 9.0 1/2 9.0 1/2 9.0 1/2 9.0 1/2 9.0 1/2 9.0 1/2 9.0 1/2 9.0 9.0 1/2 9.0 9.0 1/2 9.0 9.0 1/2 9.0 <td< td=""><td>Wift Mode! Woldage Phase Amps Cycle HD Kw Connection Vigor Decripage Air 1823-15 11.5 1 84.4 60 1/3 1.7 Height Cold Water (an) Height (m) Cold Water (conn. Heightlin) Hot Water Conn. Indirect Waste Direct Waste Direct Waste Direct Waste Direct Waste Size Size Size Size Size Conn. Heightlin) Size Size Size Size Conn. Heightlin) Size Size Size Conn. Heightlin) Size Size Conn. Heightlin) Size Size Size Conn. Heightlin) Size Conn. Heightlin) Size Size Conn. Heightlin) Size Size Size Conn. Heightlin) Size Size Size Conn. Heightlin) Size Size Conn. Heightlin) Size Size Conn. Heightlin) Size Size</td><td> Mark Mark </td></td<>	Wift Mode! Woldage Phase Amps Cycle HD Kw Connection Vigor Decripage Air 1823-15 11.5 1 84.4 60 1/3 1.7 Height Cold Water (an) Height (m) Cold Water (conn. Heightlin) Hot Water Conn. Indirect Waste Direct Waste Direct Waste Direct Waste Direct Waste Size Size Size Size Size Conn. Heightlin) Size Size Size Size Conn. Heightlin) Size Size Size Conn. Heightlin) Size Size Conn. Heightlin) Size Size Size Conn. Heightlin) Size Conn. Heightlin) Size Size Conn. Heightlin) Size Size Size Conn. Heightlin) Size Size Size Conn. Heightlin) Size Size Conn. Heightlin) Size Size Conn. Heightlin) Size Size	Mark Mark

Date Project Project Name *20161227* 03-231 K-01.a

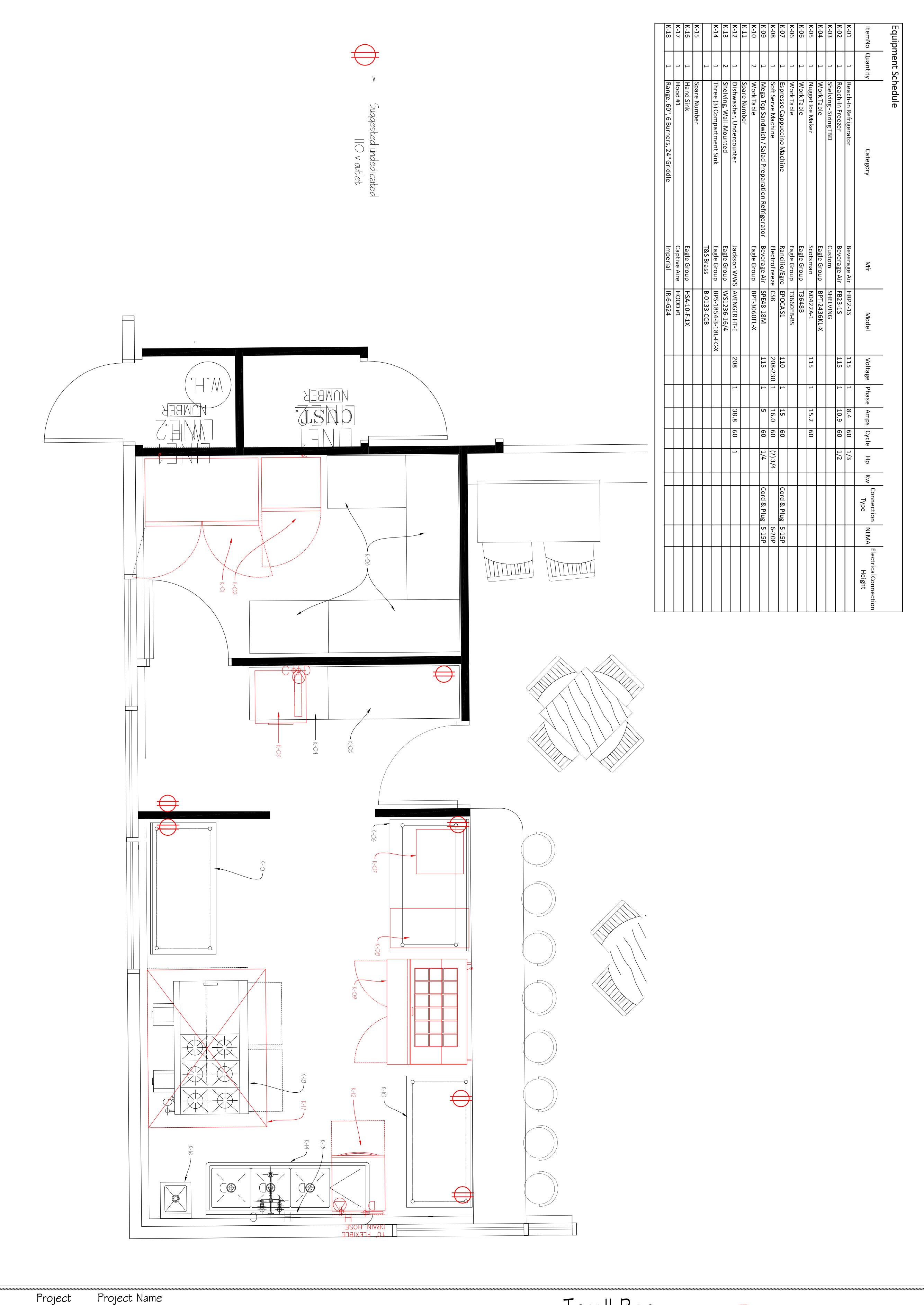
Brighton Recovery - Equipment Schedule

FLOOR PLAN









20161227 03-231 K-03

Date

Brighton Recovery - Electrical

ALL RIGHTS RESERVED, Terrill J. Roe - COPYRIGHT

This drawing is classified as part of an unpublished collection of visual art. Under the 1978 copyright act, it is an exclusive original work of authorship. None of the pictorial, graphic or technical charts or drawings depicted on this sheet may be reproduced or traced in any method by ozalid, or photocopying, stored in a retrieval system, or transmitted in any form or by any means electronic, mechanical or otherwise without the express prior written permission of the architect

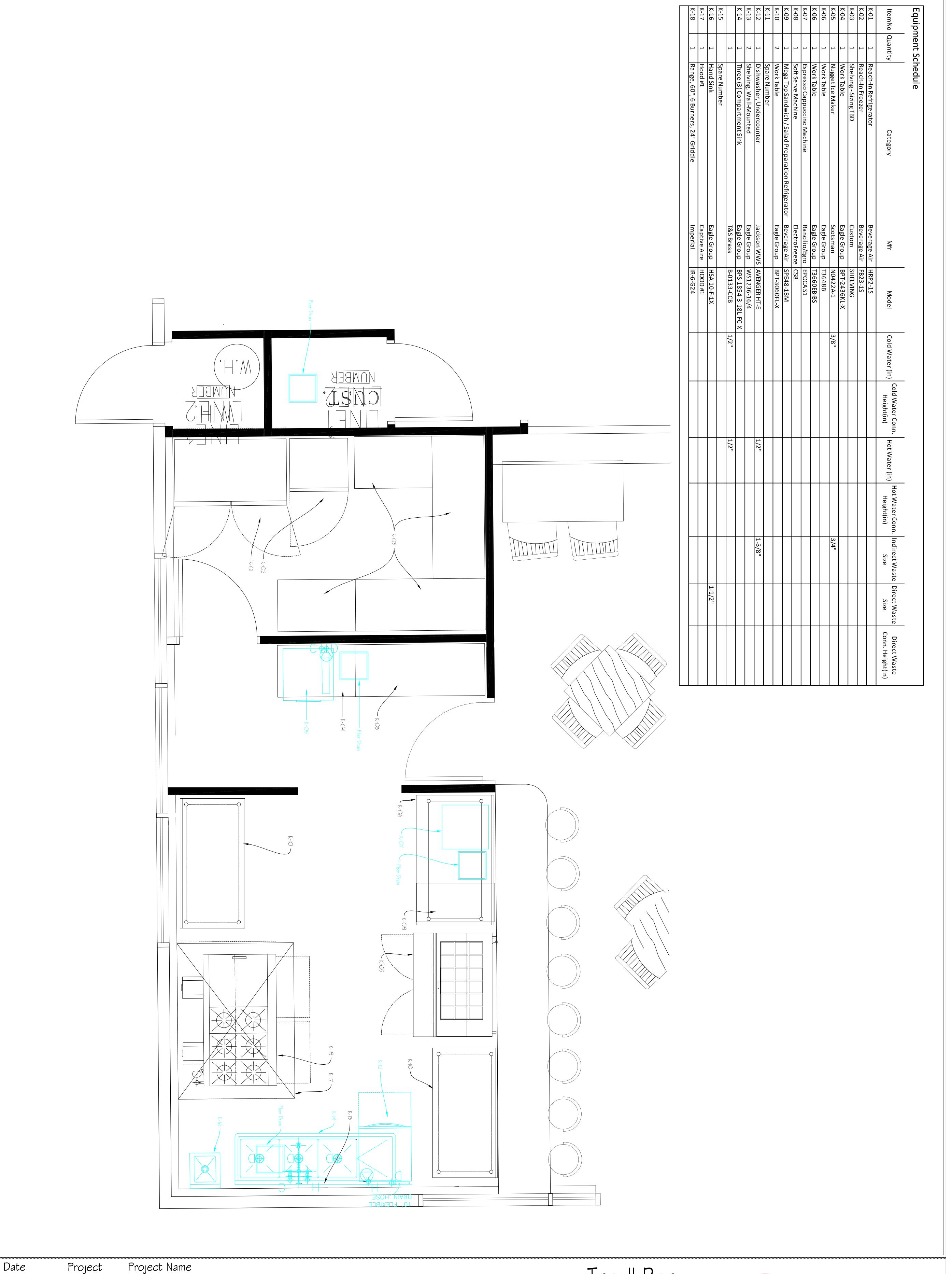
FLOOR PLAN

Terril Roe
Restaurant Sales
Design Consultant





3500 S West Temple Salt Lake City, Utah 84115



20161229 03-231

ALL RIGHTS RESERVED, Terrill J. Roe - COPYRIGHT

This drawing is classified as part of an unpublished collection of visual art. Under the 1978 copyright act, it is an exclusive original work of authorship. None of the pictorial, graphic or technical charts or drawings depicted on this sheet may be reproduced or traced in any method by ozalid, or photocopying, stored in a retrieval system, or transmitted in any form or by any means electronic, mechanical or otherwise without the express prior written permission of the architect

Brighton Recovery - Plumbing

FLOOR PLAN



Terrill Roe Restaurant Sales

Design Consultant
801-834-8896

terrillr@standardrestaurant.com



3500 S West Temple Salt Lake City, Utah 84115 SLCO Project #: 170178

Subject: Brighton Recovery Campus Building D – Plan Review Comments #2

This response letter reflects modifications to building D similar to the latest round of comments for building C.

MECHANICAL REVIEW COMMENTS:

- M1. Sheet MP1C: Please address the following:
 - A. C. Resolved.
 - D. Please address the working platform requirements and construction details for the control side of all roof top appliances and equipment in accordance with 306.1.

PC2: The response provided was regarding guards. Please detail on the plans the required working platform requirements and construction details for all rooftop appliances.

Response: See updated sheet MP1D. Manufacturer's recommended service clearance boundaries are indicated at each RTU. The RTUs are to reside in similar locations of replaced RTUs within the equipment well.

- E. F. Resolved.
- G. Please clearly indicate the minimum distances required for vents and exhausts from all building air intake openings.

PC2: It is acknowledged Sheet Note 7 has been added to the plans. However, every location shown on the mech/plumb roof plan is located closer than the required 10-feet. Based upon the floor plans and this sheet, please clarify how this requirement will be met.

Response: See updated sheet MP1D. A 10 foot offset from all RTU fresh air intakes is identified to clarify the intent.

ENERGY REVIEW COMMENTS:

- N1. Please provide complete information on the plans showing the extent of the thermal envelope and the corresponding R-values as required by IECC C402.1.3.
 - PC2: The energy compliance report provided is a REScheck based upon the multi-family use buildings. Please provide a COMcheck for the commercial use structure.

Response: Please see attached ComCheck certificates.

- N3. Please provide heating and cooling load calculations for the sizing of the mechanical equipment in accordance with the requirements of IECC C403.2.1.
 - PC2: This information does not appear to have been provided. Please address.

Response: Please see attached load analysis report.

Sincerely,

Benjamin J. Schlup - Spectrum Engineers

Benjain J. Saf

System Component Selection Summary

By Spectrum Engineers

Alternative 1

System Description: RTU

System Type: Single Zone

Number of Zones: 1 Number of Rooms: 1

Component	Sizing Method	Location	Quantity
Cooling			
Main Clg Coil	Peak	Zone	1
Primary Clg Fan	Peak	Zone	1
Heating			
Main Htg Coil	Peak	Zone	1
Miscellaneous			
System Exhaust Fan	Vent+Inf-RmExh	System	1
Return Fan	Return Airflow	System	1

	Coil Location				Cool	ing Coil Sele	ection						
			Time Of Peak	Total	Capacity	Sensible Capacity	Airflow At Coil Peak	Enter	DB/ W	B/ HR	Leave	DB/ WE	3/ HR
System	Zone Room	Component	Mo/Hr	ton	MBh	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb
	BLDG D Block Load	Main Clg Coil	7/14	11.2	134.1	130.5	5,534	76.9	56.0	45.5	52.0	45.9	44.1

	Coil Location		Heating Coil S	Selection	Entering	Leaving
System	Zone Room	Component	Total Capacity MBh	Airflow cfm	Dry Bulb °F	Dry Bulb °F
	BLDG D Block Load	Main Htg Coil	-180.1	5,534	65.6	100.0

	Component Location	Miscell	aneous	Compo	nent Selec	ction			
System	Zone Room	Component	<u>Desigr</u> cfm	Airflow Ach/hr	Outside Air %	S/ Clg °F	ADB Htg °F	Clg VAV Minimum cfm	Htg VAV Maximum cfm
RTU		Return Fan	5,750						
RTU		Optional Vent Fan	458		100				
RTU		System Exhaust Fan	674						
	BLDG D Block Load	Primary Fan	5,534		8.3	52.0			
	BLDG D Block Load	Diffuser	5,534	7.7	8.3	52.0	100.0		

Project Name: Brighton Recovery Campus
Dataset Name: 20160686 - BRIGHTON BLDG D.TRC



Project Information

Energy Code: 2015 IECC

Project Title: Brighton Recovery Campus Bldg D

Location: Salt Lake City, Utah

Climate Zone: 5b
Project Type: Alteration
Vertical Glazing / Wall Area: 30%

Construction Site: Owner/Agent: Designer/Contractor:

Utah

Building Area Floor Area

1-Office : Nonresidential 4800

Envelope Assemblies

	R-V	alue	Prop	osed	Max. A	llowed
Post-Alteration Assembly	Cavity	Cont.	U-Factor	SHGC	U-Factor	SHGC
Roof: Attic Roof, Wood Joists, [Bldg. Use 1 - Office]	19.0	20.0	0.025		0.027	
Ext. Wall: Wood-Framed, 24in. o.c., [Bldg. Use 1 - Office]	13.0	7.5	0.050		0.064	
Window: Metal Frame with Thermal Break: Fixed, Clear, Fixed, Fixed, [Bldg. Use 1 - Office]			0.380	0.400	0.380	0.644
Door: , Entrance Door, Entrance Door, [Bldg. Use 1 - Office]			0.380	0.400	0.770	0.644
Floor: Unheated Slab-On-Grade, [Bldg. Use 1 - Office]					0.540	

⁽a) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.

Envelope PASSES

Envelope Compliance Statement

Compliance Statement: The proposed envelope alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2015 IECC requirements in COMcheck Version COMcheck-Web and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Title: Brighton Recovery Campus Bldg D Report date: 04/23/17

⁽b) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.



Project Information

2015 IECC **Energy Code:**

Brighton Recovery Campus Bldg D Project Title:

Salt Lake City. Utah Location:

Climate Zone: 5b Alteration Project Type:

Construction Site: Owner/Agent: Designer/Contractor:

Utah

Mechanical Systems List

Quantity System Type & Description

RTUs (Single Zone):

Heating: 1 each - Other, Gas, Capacity = 96 kBtu/h

No minimum efficiency requirement applies

Cooling: 1 each - Other, Capacity = 36 kBtu/h, Air-Cooled Condenser, Air Economizer

No minimum efficiency requirement applies

Fan System: FAN SYSTEM 1 | Level 1 -- Compliance (Motor nameplate HP method): Passes

FAN 1 Supply, Constant Volume, 1200 CFM, 0.8 motor nameplate hp, 80.0 fan efficiency

HVAC System (Unknown w/ PerimeterSystem): 1

> Heating: 4 each - Unit Heater, Electric, Capacity = 2 kBtu/h No minimum efficiency requirement applies

HVAC System (Unknown w/ PerimeterSystem):

Heating: 1 each - Unit Heater, Electric, Capacity = 3 kBtu/h

No minimum efficiency requirement applies

MAU-1 (Single Zone):

Heating: 1 each - Other, Gas, Capacity = 99 kBtu/h No minimum efficiency requirement applies

Cooling: 1 each - Other, Capacity = 42 kBtu/h, Evaporatively Cooled Condenser, Air Economizer

No minimum efficiency requirement applies

Fan System: FAN SYSTEM 1 | Level 1 -- Compliance (Motor nameplate HP method): Passes

FAN 1 Supply, Constant Volume, 1200 CFM, 0.8 motor nameplate hp, 80.0 fan efficiency

Gas Storage Water Heater, Capacity: 60 gallons, Input Rating: 199 Btu/h w/ Circulation Pump Proposed Efficiency: 95.00 % Et, Required Efficiency: 80.00 % Et

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COMcheck Version COMcheck-Web and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Title: Brighton Recovery Campus Bldg D Report date: 04/23/17

رم^ر ر

COM*check* **Software Version COM***check-Web*

Inspection Checklist

Energy Code: 2015 IECC

Requirements: 56.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section			
# & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR1] ¹	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C103.2 [PR2] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C103.2 [PR3] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C402.4.1 [PR10] ¹	The vertical fenestration area <= 30 percent of the gross above-grade wall area.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C402.4.1 [PR11] ¹	The skylight area <= 3 percent of the gross roof area.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C402.4.2 [PR14] ¹	In enclosed spaces > 2,500 ft2 directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage, gymnasium/exercise center, convention center, automotive service, manufacturing, non-refrigerated warehouse, retail store, distribution/sorting area, transportation, or workshop, the following requirements apply: (a) the daylight zone under skylights is >= half the floor area; (b) the skylight area to daylight zone is >= 3 percent with a skylight VT >= 0.40; or a minimum skylight effective aperture >= 1 percent.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.

2 Medium Impact (Tier 2)

1 High Impact (Tier 1)

3 Low Impact (Tier 3)

	ection # Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
	303.2 O4] ²	Slab edge insulation installed per manufacturer's instructions.	\square Complies \square Does Not	Requirement will be met.
			□Not Observable □Not Applicable	
1	303.2.1 O6] ¹	Exterior insulation protected against damage, sunlight, moisture, wind,	\square Complies \square Does Not	Requirement will be met.
		landscaping and equipment maintenance activities.	□Not Observable □Not Applicable	
_	102.2.5 O3] ²	Slab edge insulation R-value.	□Complies □Does Not	See the Envelope Assemblies table for values.
			□Not Observable □Not Applicable	
_	102.2.6 O12] ³	Radiant heating systems panels insulated to >=R-3.5 on face opposite	□Complies □Does Not	Exception: Requirement does not apply.
		space being heated.	□Not Observable □Not Applicable	See the Envelope Assemblies table for values.
5,		Snow/ice melting system sensors for future connection to controls. Freeze	□Complies □Does Not	
6	103.2.4. 09] ³	protection systems have automatic controls installed.	□Not Observable □Not Applicable	

Section # & Req.ID	Framing / Rough-In Inspection	Complies?	Comments/Assumptions
C303.1.3 [FR12] ²	Fenestration products rated in accordance with NFRC.	\square Complies \square Does Not	Exception: Default values are used.
		□Not Observable □Not Applicable	
C303.1.3 [FR13] ¹	Fenestration products are certified as to performance labels or certificates	\square Complies \square Does Not	Requirement will be met.
	provided.	□Not Observable □Not Applicable	
C402.4.3 [FR10] ¹	Vertical fenestration SHGC value.	\square Complies \square Does Not	See the Envelope Assemblies table for values.
		□Not Observable □Not Applicable	
C402.4.3, C402.4.3.	Vertical fenestration U-Factor.	□Complies □Does Not	See the Envelope Assemblies table for values.
4 [FR8] ¹		□Not Observable □Not Applicable	
C402.4.4 [FR14] ²	U-factor of opaque doors associated with the building thermal envelope	□Complies □Does Not	See the Envelope Assemblies table for values.
	meets requirements.	□Not Observable □Not Applicable	
C402.5.1 [FR16] ¹	The building envelope contains a continuous air barrier that is sealed in	□Complies □Does Not	Exception: Requirement does not apply.
	an approved manner and either constructed or tested in an approved manner. Air barrier penetrations are sealed in an approved manner.	□Not Observable □Not Applicable	
C402.5.2, C402.5.4	Factory-built fenestration and doors are labeled as meeting air leakage	□Complies □Does Not	Exception: Field fabricated fenestration assemblies.
[FR18] ³	requirements.	□Not Observable □Not Applicable	
C402.5.7 [FR17] ³	Vestibules are installed on all building entrances. Doors have self-closing	□Complies □Does Not	Exception: Requirement does not apply.
	devices.	□Not Observable □Not Applicable	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Report date: 04/23/17

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6] ³	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6] ³	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6] ³	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6] ³	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	
C404.5, C404.5.1, C404.5.2 [PL6] ³	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	
C404.6.1, C404.6.2 [PL3] ¹	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	□Complies □Does Not □Not Observable □Not Applicable	
C404.6.3 [PL7] ³	•	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C404.6.3 [PL7] ³	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C404.6.3 [PL7] ³		□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C404.6.3 [PL7] ³	heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating	□Complies □Does Not □Not Observable □Not Applicable	
C404.6.3 [PL7] ³	heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating	□Complies □Does Not □Not Observable □Not Applicable	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.7 [PL8] ³	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C404.7 [PL8] ³	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C404.7 [PL8] ³	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C404.7 [PL8] ³	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	□Complies □Does Not □Not Observable □Not Applicable	
C404.7 [PL8] ³	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to $104^{\circ}F$.	□Complies □Does Not □Not Observable □Not Applicable	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41] ³	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	□Complies □Does Not □Not Observable □Not Applicable	
C402.5.5, C403.2.4. 3 [ME3] ³	Stair and elevator shaft vents have motorized dampers that automatically close.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C402.5.5, C403.2.4. 3 [ME58] ³		□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C403.2.12 .1 [ME65] ³	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. See the Mechanical Systems list for values.
C403.2.12 .1 [ME65] ³	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. See the Mechanical Systems list for values.
C403.2.12 .3 [ME117] ²	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Fans integral to equipment listed under Section C403.2.3.
C403.2.12 .3 [ME117] ²	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	□Complies □Does Not □Not Observable □Not Applicable	
C403.2.13 [ME71] ²	Unenclosed spaces that are heated use only radiant heat.	□Complies □Does Not □Not Observable □Not Applicable	
C403.2.3 [ME55] ²	HVAC equipment efficiency verified.	□Complies □Does Not □Not Observable □Not Applicable	See the Mechanical Systems list for values.
C403.2.6. 1 [ME59] ¹		□Complies □Does Not □Not Observable □Not Applicable	
C403.2.6. 2 [ME115] ³	and capacity to stage or modulate fans to 50% or less of design capacity.	□Complies □Does Not □Not Observable □Not Applicable	
C403.2.7 [ME57] ¹	Exhaust air energy recovery on systems meeting Table C403.2.7(1) and C403.2.7(2).	□Complies □Does Not □Not Observable □Not Applicable	

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.2.8 [ME116] ³	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	□Complies □Does Not □Not Observable □Not Applicable	
C403.2.9 [ME60] ²		□Complies □Does Not □Not Observable □Not Applicable	
C403.2.9 [ME10] ²	Ducts and plenums sealed based on static pressure and location.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.9. 1.3 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
C403.2.9. 1.3 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
C403.2.9. 1.3 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
C403.2.9. 1.3 [ME11] ³	column requires air leakage testing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.4. 6 [ME110] ³	of individual zone boxes have static pressure setpoint reset controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply. See the Mechanical Systems list for values.
C403.4.4. 6 [ME110] ³	of individual zone boxes have static pressure setpoint reset controls.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply. See the Mechanical Systems list for values.
C403.4.4. 6 [ME110] ³	of individual zone boxes have static pressure setpoint reset controls.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply. See the Mechanical Systems list for values.
C403.4.4. 6 [ME110] ³	Multiple zone VAV systems with DDC	□Complies □Does Not □Not Observable □Not Applicable	See the Mechanical Systems list for values.

1 High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C404.2.1 [ME111] ²	Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment >= 1,000 kBtu/h serves the entire building, thermal efficiency >= 90 Et. Where multiple pieces of water-heating equipment serve the building with combined rating >= 1,000 kBtu/h, the combined input-capacity-weighted-average thermal efficiency >= 90 Et. Exclude input rating of equipment in individual dwelling units and equipment <= 100 kBtu/h.	□Complies □Does Not □Not Observable □Not Applicable	
C408.2.2. 1 [ME53] ³	Air outlets and zone terminal devices have means for air balancing.	□Complies □Does Not □Not Observable □Not Applicable	

Report date: 04/23/17

Section			
# & Req.ID	Insulation Inspection	Complies?	Comments/Assumptions
C303.1	Roof insulation installed per	☐Complies	Requirement will be met.
[IN3] ¹		Does Not	Trequirement will be med
		□Not Observable	
	12.	□Not Applicable	
C303.1		☐Complies	Requirement will be met.
[IN10] ²	with R-value or insulation certificate providing R-value and other relevant	□Does Not	
	data.	□Not Observable	
C303.2	Above-grade wall insulation installed	□Not Applicable □Complies	Requirement will be met.
[IN7] ¹	per manufacturer's instructions.	Does Not	requirement will be met.
		□Not Observable	
		\square Not Applicable	
C303.2.1	Exterior insulation is protected from	Complies	Exception: Requirement does not apply.
[IN14] ²	damage with a protective material. Verification for exposed foundation	□Does Not	
	insulation may need to occur during	□Not Observable □Not Applicable	
C402.2.1	Foundation Inspection. Insulation intended to meet the roof		Deguirement will be met
C402.2.1 [IN17] ³	insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed	Does Not	Requirement will be met.
		□Not Observable	
		□Not Applicable	
	accordingly.		
C402.2.3 [IN6] ¹	Above-grade wall insulation R-value.	□Complies □Does Not	See the Envelope Assemblies table for values.
[□Not Observable	
		□Not Applicable	
C402.2.5	Floor insulation R-value.	☐Complies	See the Envelope Assemblies table for values.
[IN8] ²		\square Does Not	
		□ Not Observable	
C402.2.6	Padiant papels and associated	□Not Applicable □Complies	Exception: Requirement does not apply.
[IN18] ³	Radiant panels and associated components, designed for heat	□Does Not	Exception: Requirement does not apply.
	transfer from the panel surfaces to the occupants or indoor space are	□Not Observable	
	insulated with a minimum of R-3.5.	□Not Applicable	
C402.4.2.	Roof R-value. For some ceiling	☐Complies	See the Envelope Assemblies table for values.
2 [IN2] ¹	systems, verification may need to occur during Framing Inspection.	\square Does Not	
[42]	occa. daring framing inspection.	□Not Observable	
C402.5.1.	All sources of air leakage in the	□Not Applicable □Complies	Requirement will be met.
1	building thermal envelope are sealed,	Does Not	nequirement will be met.
[IN1] ¹	caulked, gasketed, weather stripped	□Not Observable	
	or wrapped with moisture vapor- permeable wrapping material to	□Not Applicable	
	minimize air leakage.	 	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5. 3 [FI8] ³	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C402.5.3 [FI51] ³	Where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening are located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms are sealed and insulated.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement is not applicable.
C402.5.6 [FI37] ¹	Weatherseals installed on all loading dock cargo doors.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
C402.5.8 [FI26] ³	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C403.2.2 [FI27] ³	HVAC systems and equipment capacity does not exceed calculated loads.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.4. 1 [FI47] ³	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.4. 1 [FI47] ³	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.2.4. 1 [FI47] ³	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.2.4. 1 [FI47] ³	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	□Complies □Does Not □Not Observable □Not Applicable	
C403.2.4. 1.2 [FI38] ³	Thermostatic controls have a 5 °F deadband.	□Complies □Does Not □Not Observable □Not Applicable	
C403.2.4. 1.3 [FI20] ³	Temperature controls have setpoint overlap restrictions.	□Complies □Does Not □Not Observable □Not Applicable	

2 Medium Impact (Tier 2)

1 High Impact (Tier 1)

3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C403.2.4. 2 [FI39] ³	controls using automatic time clock or programmable control system.	□Complies □Does Not □Not Observable □Not Applicable	
C403.2.4. 2.1, C403.2.4. 2.2 [FI40] ³		□Complies □Does Not □Not Observable □Not Applicable	
C403.2.4. 2.3 [FI41] ³	Systems include optimum start controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
C403.2.4. 2.3 [FI41] ³	Systems include optimum start controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.3 [FI11] ³	discharge piping of non-circulating systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.4 [FI25] ²	All piping insulated in accordance with section details and Table C403.2.10.	□Complies □Does Not □Not Observable □Not Applicable	
C404.6.1 [FI12] ³		□Complies □Does Not □Not Observable □Not Applicable	
C408.2.1 [FI28] ¹	Commissioning plan developed by registered design professional or approved agency.	□Complies □Does Not □Not Observable □Not Applicable	
C408.2.3. 1 [FI31] ¹	HVAC equipment has been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.3. 2 [FI10] ¹	tested to ensure proper operation, calibration and adjustment of controls.	□Complies □Does Not □Not Observable □Not Applicable	
C408.2.4 [FI29] ¹	completed and certified by registered design professional or approved agency.	□Complies □Does Not □Not Observable □Not Applicable	
C408.2.5. 1 [FI7] ³	submitted within 90 days of system acceptance.	□Complies □Does Not □Not Observable □Not Applicable	

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.5. 3 [FI43] ¹	An air and/or hydronic system balancing report is provided for HVAC systems.	□Complies □Does Not □Not Observable □Not Applicable	
C408.2.5. 4 [FI30] ¹	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	□Complies □Does Not □Not Observable □Not Applicable	

SYMBOL LEGEND					
SYMBOL	DESCRIPTION				
HVAC PIPING					
HWS	HOT WATER SUPPLY				
HWR	HOT WATER RETURN				
TWS	TEMPERED WATER SUPPLY				
cws	CHILLED WATER SUPPLY				
CWR	CHILLED WATER RETURN				
RL	REFRIGERANT LIQUID				
RS	REFRIGERANT SUCTION				
CDWS	CONDENSER WATER SUPPLY				
CDWR	CONDENSER WATER RETURN				
D	DRAIN LINE				
(E)	EXISTING PIPE				
чинини. (E) чинини.	EXISTING PIPE TO BE REMOVED				

ABBREVIATIONS

NOTE:	ALL ABBREVIATI	ONS MAY NOT	BE USE

	ADDITE	יו ו רעו	ONO
	NOTE: ALL ABBREVIATI	ONS MAY N	NOT BE USED
AD	ACCESS DOOR	MCA	MINIMUM CIRCUIT AMPS
AIR	AIR CONDITION(-ING,-ED)	MFR	MANUFACTURER
COND	,	MIN	MINIMUM
APD	AIR PRESSURE DROP	N/A	NOT APPLICABLE
BD	BALANCING DAMPER	NC	NORMALLY CLOSED
BHP	BRAKE HORSE POWER	NC	NOISE CRITERIA
BTU	BRITISH THERMAL UNIT	NIC	NOT IN CONTRACT
BTUH	BTU/HOUR	NO	NORMALLY OPEN
CFH	CUBIC FEET PER HOUR	NPSH	NET POSITIVE SUCTION HEAD
CFM	CUBIC FEET PER MINUTE	NTS	NOT TO SCALE
CLG	COOLING	OA	OUTSIDE AIR
COMP	COMPONENT	OD	OUTSIDE DIAMETER
COND	CONDENS(-ER, -ING, -ATION)	OZ	OUNCE
CV	CONTROL VALVE	PD	PRESSURE DROP OR DIFF.
CW	COLD WATER	PG	PROPYLENE GLYCOL
DIA	DIAMETER	PH	PHASE
DISCH	DISCHARGE	PPM	PARTS PER MILLION
DP	DEPTH OR DEEP	PRESS	PRESSURE
DB	DRY BULB TEMPERATURE	PSF	POUNDS PER SQUARE FOOT
(E) EER	EXISTING ENERGY EFFICIENCY RATIO	PSI PSIA	POUNDS PER SQUARE INCH PSI ABSOLUTE
EFF	EFFICIENCY RATIO	PSIG	PSI GAUGE
EG	ETHYLENE GLYCOL	R	THERMAL RESISTANCE
ELEC	ELECTRIC	RA	RETURN AIR
ELEV	ELEVATION	RECIRC	RECIRCULATE
ENT	ENTERING	REFR	REFRIGERATION
EVAP	EVAPORAT(-E, -ING, -ED, -OR)	REQD	REQUIRED
EWT	ENTERING WATER TEMP	RPM	REVOLUTIONS PER MINUTE
EXT	EXTERNAL	RW	RAINWATER
(F)	FUTURE	SA	SUPPLY AIR
È	FAHRENHEIT	sc	SHADING COEFFICIENT
FC	FLEXIBLE CONNECTION	scw	SOFT COLD WATER
FD	FIRE DAMPER	SF	SAFETY FACTOR
FLA	FULL LOAD AMPS	SH	SENSIBLE HEAT
FPI	FINS PER INCH	SL	SEA LEVEL
FPM	FEET PER MINUTE	SP	STATIC PRESSURE
FPS	FEET PER SECOND	SPEC(S)	SPECIFICATION(S)
FSD	FIRE SMOKE DAMPER	SQ	SQUARE
FT	FEET (ALLON/O)	STD	STANDARD
GAL	GALLON(S)	TEMP	TEMPERATURE
GPH GPM	GALLONS PER HOUR GALLONS PER MINUTE	TSTAT V	THERMOSTAT VOLT
HD	HEAD	V VAC	VACUUM
HG	MERCURY	VAC	VACOUM VARIABLE AIR VOLUME
HR	HOUR	VEL	VELOCITY VOLUME
HT	HEIGHT	VENT	VENT, VENTILATION
HTG	HEATING	VFD	VARIABLE FREQUENCY DRIVE
HP	HORSE POWER	wc	WATER COLUMN
HW	HOT WATER	WG	WATER GAUGE
HZ	HERTZ(FREQUENCY)	WPD	WATER PRESSURE DROP
ID	INSIDE DIAMETER	WB	WET BULB
IN	INCH		
KW	KILOWATT		
LAT	LEAVING AIR TEMPERATURE		
LBS	POUNDS		
LG	LENGTH		
LH	LATENT HEAT		
LRA	LOCKED ROTOR AMPS		
LVG	LEAVING		
I \//T	LEAVING WATER TEMP	ı	

DEFINITIONS

LEAVING WATER TEMP

THOUSAND BTU PER HOUR

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, 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", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVE: 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 STATED IN GENERAL AND SUPPLEMENTARY

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR

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, PROTECTING, CLEANING, AND SIMILAR OPERATIONS TO MAKE THE ITEM FULLY OPERATIONAL."

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

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

SY	MBOL LEGEND
SYMBOL	DESCRIPTION
VALVES, METERS	, AND GAUGES
	SHUT OFF VALVE
	GATE VALVE
	CHECK VALVE
	AUTO 2-WAY VALVE
	AUTO 3-WAY VALVE
	GLOBE VALVE
	BALL VALVE
<u> </u>	RELIEF VALVE
	CHAIN OPERATED GATE VALVE
	PRESSURE REDUCING VALVE
	BUTTERFLY VALVE
<u>Ψ</u> [Ş]	
	SOLENOID VALVE
	ANGLE VALVE
	VENTURI
	BALANCING OR PLUG COCK
—————————————————————————————————————	FLOW SETTER
\longrightarrow	EXPANSION VALVE (REFRIG.)
T	TEMPERATURE SENSOR
ŽMAV	MANUAL AIR VENT
	STRAINER
φ,	GAUGE COCK
	FLEXIBLE CONNECTION
φ	PRESSURE GAUGE
Q	THERMOMETER
	VICTAULIC COUPLING
$-\!$	REDUCER CONCENTRIC
V	REDUCER ECCENTRIC
<u> </u>	REFRIGERANT SITE GLASS
	REFRIGERANT STRAINER
	REFRIGERANT FILTER DRIER
	90° ELBOW UP
	90° ELBOW DOWN
	90° TEE UP
	90° TEE DOWN
	UNION
	CAPPED PIPE
×	ANCHOR
	FLOAT AND THERMOSTATIC TRAP
HVAC SYMBOLS	•
T	THERMOSTAT
S	TEMPERATURE SENSOR
Н	HUMIDISTAT
PLUMBING SYMBO	DLS
C.B.	CATCH BASIN
○ м.н.	MANHOLE
———— W.H.	WALL HYDRANT
— H.B.	HOSE BIBB
	i
— Ф	CLEANOUT TO GRADE

SYMBO	DL	DESC	RIPTION	
DUCTWOR	K	1		
SINGLE LINE		DOUB	LE LINE	DESCRIPTION
}				RECTANGULAR SUPPLY DUCT UP
}	X	8	X	RECTANGULAR SUPPLY DUCT DOWN
}		3		RECTANGULAR RETURN DUCT UP
}				RECTANGULAR RETURN DUCT DOWN
}				RECTANGULAR EXHAUS DUCT UP
}		2		RECTANGULAR EXHAUS DUCT DOWN
}				ROUND DUCT UP
}		=		ROUND DUCT DOWN
<u></u>				ACOUSTICALLY LINED RECTANGULAR DUCT
}		3		90° RECTANGULAR ELBOW WITH TURNING VANES
}				90° RADIUS ELBOW R=1.
\				DUCT SIZE OR SHAPE TRANSITION
2				OPPOSED BLADE BALANCING DAMPER (O.B.D.) IN RECT DUCT
		-		BUTTERFLY BALANCING DAMPER IN ROUND DUCTS
}		-		COMBINATION TEE
				SPLITTER DAMPER
}		3	K A	SQUARE OR RECTANGULAR CEILING DIFFUSER
> (([ROUND CEILING DIFFUSER
}		*		SIDEWALL REGISTER SUPPLY OR RETURN
}		-		ROUND FLEXIBLE DUCT
}				RETURN GRILLE
}				EXHAUST GRILLE
\	FSD	\$	FSD	FIRE/SMOKE DAMPER
÷		2	→ FD	FIRE DAMPER
	^		FC	FLEXIBLE CONNECTION
}				EXISTING DUCT
Y/////////	111111			DUCT TO BE BENOVED

GENERAL MECHANICAL NOTES

1. ALL CEILING DIFFUSERS SHOWN AS SUCH ARE CD-1, CFM AS NOTED, UNLESS OTHERWISE NOTED.

2. ALL CEILING RETURN GRILLES SHOWN AS SUCH ARE RG-1 UNLESS OTHERWISE NOTED. PROVIDE SOUND BOOT

3. ALL CEILING EXHAUST GRILLES SHOWN AS SUCH ARE EG-1, CFM AS NOTED, UNLESS OTHERWISE NOTED.

- 4. DO NOT ROUTE DUCTS AND PIPES ABOVE ELECTRICAL PANELS. ALL ELECTRICAL PANELS MUST HAVE CLEAR ACCESS SPACE IN FRONT OF PANEL 4'-0" DEEP AND 6'-6" HIGH. DO NOT ROUTE DUCTS AND PIPES IN ELECTRICAL ROOMS, EXCEPT DUCTS AND PIPES SERVING THE ROOM OR WITHIN APPROPRIATE ENCLOSURE.
- 5. COORDINATE EXACT LOCATIONS OF CEILING DIFFUSERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- 6. ALL DUCT DIMENSIONS ARE INSIDE FREE AREA DIMENSIONS. ADJUST SHEET METAL DIMENSION FOR LINED DUCT.
- 7. ALL FIRE DAMPERS SHOWN ARE 1-1/2 HOUR UNLESS OTHERWISE
- 8. IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE
- 9. PROVIDE CEILING ACCESS PANELS AS REQUIRED WHERE MECHANICAL EQUIPMENT, VALVES, HEAT PUMPS, FIRE DAMPERS, ETC. ARE LOCATED ABOVE INACCESSIBLE CEILINGS. ACCESS PANELS TO BE LISTED AND FIRE RATED EQUAL TO OR GREATER THAN THE RATING OF THE ASSEMBLY THEY ARE INSTALLED IN.
- 10. ALL DUCT AND FLUE PENETRATIONS THRU 1 HOUR ROOF ASSEMBLY TO BE ENCLOSED WITH 2 SHEET ROCK LAYERS FROM SHEET ROCK AT BOTTOM OF ROOF TRUSSES TO ROOF DECK.
- 11. STEEL ROOF DECK SHALL NOT BE USED TO SUPPORT LOADS FROM PIPING, DUCTWORK OR EQUIPMENT, UNLESS NOTED OTHERWISE. HANGER LOADS LESS THAN 50 LBS. MAY BE HUNG FROM THE STEEL ROOF DECK IN CASES WHEN HANGING FROM THE STEEL ROOF DECK CANNOT BE AVOIDED; THE ATTACHMENT METHOD MUST DISTRIBUTE THE LOAD ACROSS THE DECK AS APPROVED BY THE STRUCTURAL ENGINEER.
- 12. THE EQUIPMENT INSTALLER IS TO APPLY AND SIGN A CERTIFICATION LABEL TO EACH GAS-FIRED APPLIANCE, STATING THE APPLIANCE HAS BEEN ADJUSTED OR MODIFIED PER MANUFACTURER'S REQUIREMENTS FOR OPERATION AT THE PROJECT ALTITUDE AND WITH THE BTU-CONTENT OF THE AVAILABLE FUEL-GAS.

SYMBOL LEGEND

SYMBOL DESCRIPTION

REFERENCE AND LINE SYMBOLS

DETAIL INDICATOR: # INDICATES DETAIL NUMBER, SHEET INDICATES DRAWING SHEET WHERE DETAIL IS SHEET /

SHEET

ELEVATION OR SECTION INDICATOR, EXTERIOR: # INDICATES ELEVATION OR SECTION NUMBER, SHEET INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.

SHEET

ELEVATION OR SECTION INDICATOR, INTERIOR: # INDICATES ELEVATION OR SECTION NUMBER, SHEET INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.

TYPE CFM SIZE TYPE SIZE

NEW CONSTRUCTION NOTES:

BUILDING ENTRY LOCATIONS.

TEMPORARY RESIDENT SPACES.

DIFFUSER/GRILLE INDICATOR.

MECHANICAL SCOPE OF WORK

ELECTRIC UNIT HEATERS WILL BE PLACED WATER ENTRY ROOMS AND MAIN

ROOFTOP UNITS ARE TO BE INSTALLED WITHIN EXISTING EQUIPMENT WELLS ON ROOF OF EACH BUILDING. SUPPLY AND RETURN DUCTWORK IS TO ROUTE

ARE TO INCORPORATE INTEGRAL BALANCING DAMPERS.

UNDERSIDE OF EXISTING BUILDING OVERHANGS.

THROUGH EXISTING TRUSS SYSTEM. TERMINAL SUPPLY AND RETURN GRILLES

CLOTHES DRYER AND BATHROOM EXHAUST DUCTWORK IS TO TERMINATE AT

THE NEW SYSTEM COMPONENTS WILL ALLOW FOR FUTURE OFFICE &

DIFFUSER/GRILLE INDICATOR. NEW CONNECTION POINT TO

MECH/PLUMB SHEET INDEX SHEET NO | SHEET TITLE MECHANICAL GENERAL NOTES & LEGEND M02 MECHANICAL EQUIPMENT SPECIFICATIONS M11 MECHANICAL SCHEDULES M12 MECHANICAL DETAILS M13 MECHANICAL DETAILS M14 MECHANICAL DETAILS M15 MECHANICAL DETAILS M16 MECHANICAL DETAILS

M17 MECHANICAL DETAILS M18 MECHANICAL DETAILS P01 PLUMBING GENERAL NOTES & LEGEND P02 PLUMBING EQUIPMENT SPECIFICATIONS PLUMBING SCHEDULES P12 PLUMBING DETAILS PLUMBING DETAILS \sim PLUMBING DETAILS MP1D MECH/PLUMB ROOF PLAN - BUILDING 'D' M1D MECHANICAL PLAN - BUILDING 'D'

P1D PLUMBING PLAN - BUILDING 'D'

broject:

Donald L. Welch

Architect Sandy Land L vale, Utah 84

324 S. State St., Suite 400

Salt Lake City, UT 84111 800-678-7077

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

www.spectrum-engineers.com

THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC REPRESENTATION & MODELS

THEREOF, ARE PROPRIETARY & CAN NOT BE

COPIED, DUPLICATED, OR COMMERCIALLY

THE SOLE AND EXPRESS WRITTEN

PERMISSION FROM DONALD L. WELCH

THESE DRAWINGS ARE AVAILABLE FOR

LIMITED REVIEW AND EVALUATION BY CLIENTS.

AGENCIES, VENDORS, AND OFFICE PERSONNEL

CONSULTANTS, CONTRACTORS, GOVERNMENT

DNLY IN ACCORDANCE WITH THIS NOTICE.

04-24-2017

No. 9520491

BENJAMIN J

|consultant:

EXPLOITED IN WHOLE OR IN PART WITHOUT

for New Brighton Recover 4905, 4911, 4915,

4925, 4931, & 4953

South 900 East

| Salt Lake County,

date

April 24, 2017

revisions

PERMIT SET-December 28, 2016 ADDENDUM #1-January 04, 2017 3\ADDENDUM #3-January 11, 2017 4\text{ADDENDUM #4-January 17, 2017} $\sqrt{5}$ ADDENDUM #5-January 20, 2017 ADDENDUM#7-February 24, 2017

data

project no: drawn by: checked by:

Z8\\ADDENDUM#8 - March 20, 2017

MECHANICAL GENERAL NOTES & LEGEND sheet

GENERAL MECHANICAL NOTES

- THESE DRAWINGS AND SPECIFICATIONS ARE FOR THE DIVISION 23 CONTRACTOR TO ENGINEER. DESIGN. BID AND INSTALL A HEATING, AIR CONDITIONING AND VENTILATION SYSTEM PER THE DESIGN INTENT SHOWN.
- ALL EQUIPMENT, PIPING, DUCTWORK, COMPONENT AND ACCESSORY SIZES, CAPACITIES, AND TYPES SHOWN IN THESE DRAWINGS AND SPECIFICATIONS SHALL BE ADHERED TO.
- THE DIVISION 23 CONTRACTOR SHALL DESIGN AND INSTALL A COMPLETE AND FULLY OPERATIONAL SYSTEM.
- DESIGN AND AS-BUILT DRAWINGS SHOWING ALL EQUIPMENT, COMPONENTS, PIPING. AND CONTROLS SHALL BE PREPARED TO THE SAME SCALE AS THESE DRAWINGS. COPIES SHALL BE PROVIDED TO THE OWNER AND ARCHITECT/ENGINEER
- PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO CONSTRUCT A COMPLETE, OPERATIONAL HVAC SYSTEM FOR THE ENTIRE PROJECT AS SHOWN ON THESE DRAWINGS, INCLUDING ALL NECESSARY FEES AND PERMITS.
- THE ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENTLY ADOPTED BUILDING CODE, MECHANICAL CODE, PLUMBING CODE, ELECTRICAL CODE, AND ALL OTHER APPLICABLE CITY, COUNTY, SCHOOL DISTRICT STATE AND FEDERAL CODES AND REGULATIONS IN EFFECT AT THE DATE OF THE BID. CONFORM TO ANY CODES, RULES, REGULATIONS AND REQUIREMENTS THAT THE PROJECT OWNER HAS
- PRIOR TO FABRICATION AND INSTALLATION, COORDINATE THE INSTALLATION OF ALL HVAC PIPING, DUCTWORK, AND EQUIPMENT WITH PLUMBING PIPING, PLUMBING FOLIPMENT REFRIGERATION TRENCHES AND PIPING FIRE PROTECTION PIPING AND ALL OTHER TRADES INCLUDING BUT NOT LIMITED TO: THE MECHANICAL CONTRACTOR, REFRIGERATION CONTRACTOR, ELECTRICAL CONTRACTOR, FIRE PROTECTION CONTRACTOR, GENERAL CONTRACTOR, AND ANY CONTRACTOR HIRED DIRECTLY BY THE OWNER. WHERE CONFLICTS MAY OCCUR, THEY SHALL BE RESOLVED PRIOR TO INSTALLATION.
- THE DRAWINGS SHOW THE GENERAL DESIGN, ARRANGEMENTS AND THE EXTENT OF THE SYSTEM. IT SHALL BE THE WORK OF THE CONTRACTOR TO MAKE SUCH SLIGHT ALTERATIONS AS MAY BE NECESSARY TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL IN ACCORDANCE WITH THE DESIGN INTENT. MAJOR DEVIATIONS SUCH AS CHANGES IN COMPONENT SIZES, WEIGHTS, QUANTITIES, OR MATERIAL REQUIRE PRIOR APPROVAL BY THE CONSULTING ENGINEER.
- ALL HVAC INFORMATION IS NOT SHOWN ON THE HVAC DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
- 10. THE WORKING DRAWINGS ARE DIAGRAMMATIC. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR HVAC EQUIPMENT AND PIPING SHALL BE CHECKED AND COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, STRUCTURAL AND ELECTRICAL DRAWINGS.
- SPACE ABOVE ALL CEILINGS IS LIMITED. CAREFUL COORDINATION IS REQUIRED WITH ALL TRADES BEFORE ANY PIPE, DUCT, OR EQUIPMENT IS ORDERED AND/OR INSTALLED. ANY CONFLICTS AND/OR CHANGES FOUND DURING INSTALLATION THAT RESULT FROM LACK OF COORDINATION BY THE CONTRACTORS DURING THE SHOP DRAWING PROCESS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 12. 1/8" SCALE SHOP DRAWINGS (SUBMITTED FOR APPROVAL) ARE REQUIRED FOR ALL DUCTWORK AND PIPING SYSTEMS.
- 13. THE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH THE ITEMS SHOWN ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN BOTH.
- 14. DETAILS: THE CONTRACTOR IS RESPONSIBLE TO REVIEW AND USE WHERE APPROPRIATE ALL OF THE MECHANICAL DETAILS SHOWN ON THE DRAWINGS. DETAILS MAY OR MAY NOT BE CALLED OUT ON THE DRAWINGS WITH SYMBOLS OR KEYED NOTES. ANY CHANGES RESULTING FROM FAILURE TO INSTALL THE MECHANICAL SYSTEM WITHOUT USING THE INCLUDED DETAILS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 15. PIPING SCHEMATICS: THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE PIPING SCHEMATICS INCLUDED WITH THE DRAWINGS FOR PIPING CONNECTIONS TO ALL MECHANICAL EQUIPMENT. THE PIPING SCHEMATICS SHOW DETAILED CONNECTIONS INCLUDING NECESSARY VALVES, FITTINGS, PRESSURE AND TEMPERATURE GAUGES, ETC., THAT ARE NOT SHOWN ON THE PIPING PLANS. ANY CHANGES RESULTING FROM FAILURE TO INSTALL THE MECHANICAL SYSTEM WITHOUT USING THE INCLUDED PIPING SCHEMATICS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- THE STRUCTURE SHOWN ON ALL DETAILS MAY OR MAY NOT PERTAIN TO A PORTION OR ANY PORTION OF THE BUILDING. COORDINATE MOUNTING REQUIREMENTS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- ANY PART OF THIS INSTALLATION THAT FAILS, IS UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 18. COORDINATE THE RETURN OF ALL MECHANICAL EQUIPMENT REMOVED DURING DEMOLITION WITH THE OWNER'S REPRESENTATIVE
- 19. ALL EQUIPMENT SHALL PROVIDE THE SCHEDULED PERFORMANCE AT THE SITE ALTITUDE.
- 20. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS. TRANSITIONS, VALVES, DAMPERS, AND OTHER DEVICES AND ACCESSORIES

REQUIRED FOR A COMPLETE, WORKABLE INSTALLATION.

- THE DIVISION 23 CONTRACTOR SHALL FURNISH ALL REQUIRED MOTORS. ALL MOTOR STARTING EQUIPMENT, WHEN NOT A PART OF THE EQUIPMENT, WILL BE FURNISHED BY THE ELECTRICAL CONTRACTOR.
- 22. EXISTING INTERIOR PIPING, EQUIPMENT, AND DUCTWORK HAS BEEN LOCATED IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL VERIFY LOCATIONS AND POINTS OF CONNECTION AND PIPE ROUTING THROUGH EXISTING CONDITIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL PERFORM THE WORK IN A MANNER THAT WILL CAUSE A MINIMUM DISRUPTION TO BUILDING TENANT USE AND SHALL COORDINATE THE WORK WITH THE BUILDING OWNER'S REPRESENTATIVE.
- 23. THE CONTRACTOR IS RESPONSIBLE FOR HVAC EQUIPMENT CHECK-IN, SAFEKEEPING, AND DAMAGE
- 24. DO NOT ROUTE DUCTS AND PIPES ABOVE ELECTRICAL PANELS. ALL ELECTRICAL PANELS MUST HAVE CLEAR ACCESS SPACE IN FRONT OF PANEL 4'-0" DEEP AND 6'-6" HIGH. DO NOT ROUTE DUCTS AND PIPES IN ELECTRICAL ROOMS, EXCEPT DUCTS AND PIPES SERVING THE ROOM OR IF PROPER ENCLOSURE IS PROVIDED
- 25. COORDINATE EXACT LOCATIONS OF CEILING DIFFUSERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- 26. ALL FIRE DAMPERS SHOWN ARE 1-1/2 HOUR UNLESS OTHERWISE NOTED.
- 27. IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS. IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
- 28. PROVIDE CEILING ACCESS PANELS AS REQUIRED WHERE MECHANICAL EQUIPMENT, VALVES, VAV BOXES, FIRE DAMPERS, ETC. ARE LOCATED ABOVE INACCESSIBLE CEILINGS.
- 29. ENCLOSE ALL DUCT AND FLUE PENETRATIONS THROUGH 1 HOUR ROOF ASSEMBLIES WITH 2 SHEET ROCK LAYERS FROM SHEET ROCK CEILING AT BOTTOM OF ROOF TRUSSES TO ROOF DECK
- 30. DO NOT USE STEEL ROOF DECK TO SUPPORT LOADS FROM PIPING, DUCTWORK OR EQUIPMENT. HANGER LOADS LESS THAN 50 LBS. MAY BE HUNG FROM THE STEEL ROOF DECK IN CASES WHERE HANGING FROM THE STEEL ROOF DECK CANNOT BE AVOIDED. THE ATTACHMENT METHOD MUST DISTRIBUTE THE LOAD ACROSS THE DECK AS APPROVED BY THE STRUCTURAL ENGINEER.

GENERAL MECHANICAL NOTES

- I. PROPERLY LUBRICATE ALL PIECES OF EQUIPMENT BEFORE TURNING THE SYSTEM OVER TO THE OWNER.
- 2. PREPARE SUBMITTALS IN AN INDEXED, LABELED FOLDER CONTAINING FULL PERFORMANCE, MATERIAL AND INSTALLATION INFORMATION ABOUT ALL FOUIPMENT, PIPING, COMPONENTS AND ACCESSORIES TO BE USED. SUBMITTAL WILL BE CHECKED AT MOST TWICE. TIME SPENT ON SUBSEQUENT SUBMITTALS WILL BE BILLED TO THE CONTRACTOR BY THE ENGINEER AT ITS CURRENT HOURLY RATES.
- 3. TWO OPERATING AND MAINTENANCE MANUALS SHALL BE PROVIDED IN HARD BACK LOOSE LEAF BINDERS. MANUALS SHALL CONTAIN PRODUCT CUT SHEETS AND OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL EQUIPMENT, ACCESSORIES, FIXTURES, VALVES, ETC., PROVIDED FOR THE PROJECT.
- UPON COMPLETION OF THE WORK. REMOVE ALL SURPLUS MATERIALS AND RUBBISH. MAKE ALL REQUIRED PATCHING AND REPAIRS OF OTHER TRADES' WORK DAMAGED BY THE CONTRACTOR, AND LEAVE THE PREMISES IN A CLEAN ORDERLY CONDITION.
- . THE CONTRACTOR SHALL OPERATE THE SYSTEM AND DEMONSTRATE ALL ASPECTS TO THE ENGINEER AND/OR OWNER, TO PROVE ITS OPERATION. ALL FILTERS USED DURING CONSTRUCTION SHALL BE REPLACED PRIOR TO THE TEST RUN PERIOD
- THE CONTRACTOR SHALL GUARANTEE THE HVAC SYSTEM FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
- . THE CONTRACTOR SHALL, DURING CONSTRUCTION, MAINTAIN A SET OF AS-BUILT REDI INED RECORD DRAWINGS AT THE PROJECT SITE. ALL CHANGES IN LAYOUT ROUTING, EQUIPMENT, COMPONENTS, AND ACCESSORIES SHALL BE RECORDED. THESE REDLINES SHALL BE GIVEN TO THE ARCHITECT/ENGINEER AFTER THE

MECHANICAL SUBMITTAL NOTES

- MECHANICAL SUBMITTAL SHALL BE SUBMITTED AS A COMPLETE ELECTRONIC PACKAGE ASSEMBLED BY SPECIFICATION DIVISIONS.
- ASSEMBLE COMPLETE ELECTRONIC SUBMITTAL PACKAGE INTO A SINGLE INDEXED FILE INCORPORATING SUBMITTAL REQUIREMENTS OF A SINGLE SPECIFICATION SECTION AND TRANSMITTAL FORM WITH LINKS ENABLING NAVIGATION TO EACH ITEM:
- a. LITERATURE SHALL INCLUDE REFERENCE TO EQUIPMENT CALL-OUT AND SPECIFICATION SECTION.
- b. FILE NAME SHALL USE PROJECT IDENTIFIER AND SPECIFICATION SECTION NUMBER FOLLOWED BY A DECIMAL POINT AND THEN A SEQUENTIAL NUMBER (E.G., LNHS-061000.01). RE-SUBITTALS SHALL INCLUDE AN ALPHABETIC SUFFIX AFTER ANOTHER DECIMAL POINT (E.G., INHS-061000.01.A).
- c. PROVIDE MANUFACTURER'S CATALOG DATA SHEETS FOR EACH MANUFACTURED ITEM LISTED ON THE DRAWINGS AND SPECIFICATIONS.
- d. INCLUDE MANUFACTURER'S CATALOG DATA OF EACH MANUFACTURED ITEM AND ENOUGH INFORMATION TO SHOW COMPLIANCE WITH CONTRACT DOCUMENT REQUIREMENTS.
- e. LITERATURE SHALL SHOW CAPACITIES AND SIZE OF EQUIPMENT USED AND BE MARKED INDICATING EACH SPECIFIC ITEM WITH APPLICABLE DATA UNDERLINED.
- f. INCLUDE NAME, ADDRESS, AND PHONE NUMBER OF EACH SUPPLIER.
- g. DEVIATIONS AND ADDITIONAL INFORMATION: ON AN ATTACHED SEPARATE SHEET, PREPARED ON CONTRACTOR'S LETTERHEAD, RECORD RELEVANT INFORMATION, REQUESTS FOR DATA, REVISIONS OTHER THAN THOSE REQUESTED BY ENGINEER CONTRACT DOCUMENTS, INCLUDING MINOR VARIATIONS AND LIMITATIONS. INCLUDE SAME IDENTIFICATION INFORMATION AS RELATED SUBMITTAL

PRODUCT DATA:

- a. COLLECT INFORMATION INTO A SINGLE SUBMITTAL FOR EACH ELEMENT OF CONSTRUCTION AND TYPE OF PRODUCT OR EQUIPMENT.
- b. IF INFORMATION MUST BE SPECIALLY PREPARED FOR SUBMITTAL BECAUSE STANDARD PUBLISHED DATA ARE NOT SUITABLE FOR USE, SUBMIT AS SHOP DRAWINGS, NOT AS PRODUCT DATA.
- c. MARK EACH COPY OF EACH SUBMITTAL TO SHOW WHICH PRODUCTS AND OPTIONS ARE APPLICABLE.
- d. INCLUDE THE FOLLOWING INFORMATION, AS APPLICABLE:
- e. MANUFACTURER'S CATALOG CUTS.
- f. MANUFACTURER'S PRODUCT SPECIFICATIONS.
- g. STANDARD COLOR CHARTS.
- h. STATEMENT OF COMPLIANCE WITH SPECIFIED REFERENCED STANDARDS.
- TESTING BY RECOGNIZED TESTING AGENCY.
- j. APPLICATION OF TESTING AGENCY LABELS AND SEALS.
- k. NOTATION OF COORDINATION REQUIREMENTS
- I. AVAILABILITY AND DELIVERY TIME INFORMATION.
- m. FOR EQUIPMENT, INCLUDE THE FOLLOWING IN ADDITION TO THE ABOVE, AS APPLICABLE:
- n. WIRING DIAGRAMS SHOWING FACTORY-INSTALLED WIRING.
- o. PRINTED PERFORMANCE CURVES.
- p. OPERATIONAL RANGE DIAGRAMS.
- q. CLEARANCES REQUIRED TO OTHER CONSTRUCTION, IF NOT INDICATED ON ACCOMPANYING SHOP DRAWINGS.

PROCESSING TIME: ALLOW TIME FOR SUBMITTAL REVIEW, INCLUDING TIME FOR RESUBMITTALS, AS FOLLOWS. TIME FOR REVIEW, INCLUDING TIME FOR RESUBMITTALS, AS FOLLOWS. TIME FOR REVIEW SHALL COMMENCE ON ENGINEERS RECEIPT OF SUBMITTAL. NO EXTENSION OF THE CONTRACT TIME WILL BE AUTHORIZED BECAUSE OF FAILURE TO TRANSMIT SUBMITTALS ENOUGH IN ADVANCE OF THE WORK TO PERMIT PROCESSING, INCLUDING RESUBMITTALS.

- a. INITIAL REVIEW: ALLOW 15 DAYS FOR INITIAL REVIEW OF MECHANICAL
- b. RESUBMITTALS REVIEW: ALLOW 15 DAYS FOR REVIEW OF EACH RESUBMITTAL.
- DEVIATIONS AND ADDITIONAL INFORMATION: ON AN ATTACHED SEPARATE SHEET PREPARED ON CONTRACTOR'S LETTERHEAD, RECORD RELEVANT INFORMATION, REQUESTS FOR DATA, REVISIONS OTHER THAN THOSE REQUESTED BY DESIGN ENGINEER ON PREVIOUS SUBMITTALS, AND DEVIATIONS FROM REQUIREMENTS IN THE CONTRACT DOCUMENTS. INCLUDING MINOR VARIATIONS AND LIMITATIONS. INCLUDE SAME IDENTIFICATION INFORMATION AS RELATED SUBMITTAL.

MECH. PIPING GENERAL NOTES

- CAULK AROUND ALL PIPING THAT PASSES THROUGH FIRE RATED PARTITIONS WITH A NON-HARDENING CAULKING SIMILAR TO 3M "FIRE BARRIER".
- PROVIDE PROPER PROVISIONS FOR EXPANSION OR MOVEMENT OF ALL PIPING. PROVIDE LARGE ENOUGH PIPE SLEEVES THROUGH WALLS OR FLOORS TO ALLOW FOR ANTICIPATED DEFERENTIAL MOVEMENTS.
- AT VERTICAL RISERS SUPPORT THE 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 THE INTERMEDIATE POINTS NOT TO EXCEED 30'-0" ON CENTER
- ALL PIPING SHALL BE SUPPORTED WITH TYPE I STEEL CLEVIS PIPE HANGERS.
- ALL STEEL CLEVIS HANGERS USED TO SUPPORT PLASTIC PIPING SHALL BE PLASTIC COATED
- ALL STEEL HANGERS USED TO SUPPORT COPPER PIPING SHALL BE COPPER PLATED OR PLASTIC COATED.
- PERFORATED METAL OR PLASTIC STRAPPING (PLUMBERS TAPE) IS NOT AN ACCEPTABLE MATERIAL FOR HANGING OR SECURING PIPE.

PROVIDE PIPE HANGERS WITHIN 18 INCHES OF ALL 90 DEGREE ELBOWS.

- PROVIDE SWAY BRACING ON PIPING 4" AND LARGER AT CHANGES IN DIRECTION GREATER THAN 45 DEGREES.
- ALL PIPING SHALL BE INSTALLED IN A NEAT ARRANGEMENT PARALLEL TO BUILDING STRUCTURE.

DUCT CONSTRUCTION NOTES

- ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL, EXCEPT WHERE INDICATED OTHERWISE.
- 2. SHEET METAL DUCT STATIC PRESSURE CLASSIFICATION: SUPPLY AIR DUCT: 2" W.C. 2" W.C. (NEGATIVE) RETURN AIR DUCT: EXHAUST AIR DUCT: 2" W.C. (NEGATIVE) OUTSIDE AIR DUCT: 2" W.C.
- 3. SEAL ALL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS TO SMACNA SEAL CLASS B.
- 4. DO NOT USE GRAY DUCT TAPE, FOIL BACKED TAPE, OIL BASED CAULKING AND GLAZING COMPOUNDS TO SEAL METAL DUCTS.
- CROSS-BREAK DUCT SURFACES 19" THROUGH 60". USE ANGLE REINFORCING FOR DUCTS SURFACES OF 60".
- 6. ALL METAL LONGITUDINAL SEAMS SHALL BE PITTSBURGH OR OTHER LISTED SMACNA LISTED SEAM. DO NOT USE BUTTON PUNCH SNAP-BACK
- 7. SUSPEND METAL DUCTWORK NOT EXCEEDING 30" LONGEST SIDE AT EVERY JOINT. DO NOT EXCEED 10'-0" HANGER SPACING. USE 1" X 18 GAGE GALVANIZED STRAPS (MINIMUM) ATTACHED TO BOTTOM AND SIDES OF
- 8. SUSPEND METAL DUCTWORK EXCEEDING 30" LONGEST SIDE AT MAXIMUM 8'-0" SPACING USING ANGLES AND RODS.
- 9. SUPPORT DUCTWORK FROM STRUCTURAL MEMBERS. ATTACHMENT TO ROOF DECK IS NOT ACCEPTABLE.
- 10. DUCT SIZES SHALL BE VERIFIED FOR CLEARANCES AT THE JOB SITE PRIOR TO FABRICATION. DIMENSIONS MAY BE CHANGED TO ACCOMMODATE CONSTRUCTION CLEARANCES, FREE AREA OF DUCT SHALL BE MAINTAINED
- 11. DUCT TRANSITIONS SHALL BE CONSTRUCTED WITH SLOPE OF 1/4.
- 12. PROVIDE ELBOWS AND CHANGES IN DIRECTION WITH SINGLE VANE TURNING VANES.
- 13. ALL JOINTS SHALL BE MADE AIRTIGHT BY APPROVED METHODS, INCLUDING TAPES, MASTICS, GASKETS OR OTHER APPROVED CLOSURE SYSTEMS.
- 14. TAPE ALONE CANNOT BE SUBSTITUTED FOR MECHANICAL FASTENERS. 15. TAPES AND MASTICS USED TO SEAL DUCTWORK MUST BE LISTED AND
- LABELED IN ACCORDANCE WITH UL 181A AND SHALL BE MARKED "181A-P" FOR PRESSURE-SENSITIVE TAPE, "181A-M" FOR MASTIC OR "181A-H" FOR HEAT SENSITIVE TAPE.
- 16. TAPES AND MASTICS USED TO SEAL FLEXIBLE AIR DUCTS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181B-FX" FOR PRESSURE SENSITIVE TAPE, OR "181B-M" FOR MASTIC.
- 17. MECHANICAL FASTENERS USED WITH FLEXIBLE NON-METALLIC AIR DUCTS SHALL COMPLY WITH UL 181 AND SHALL BE MARKED "181B-".
- 18. FLEXIBLE CONNECTORS SHALL NOT BE USED.

WITH THE NEBB OR AABC TEST PROCEDURES.

- 19. HIGH EFFICIENCY TAKE-OFF FITTINGS WITH MANUAL DAMPER SHALL HAVE 2" STAND OFF BRACKET.
- 20. ALL BRANCH TAKE-OFFS TO INDIVIDUAL AIR INLET OR AIR OUTLET SHALL BE PROVIDED WITH MANUAL DAMPER.
- 21. ALL DUCTWORK SHALL BE A MINIMUM 26 GAUGE GALVANIZED SHEET

TEST AND BALANCE NOTES

- THE MINIMUM REQUIREMENT FOR TESTING, ADJUSTING, AND BALANCING (TAB) OF THE HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) DISTRIBUTION SYSTEMS SHALL BE AS FOLLOWS.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TESTING ADJUSTING AND BALANCING FOR THIS PROJECT THE MECHANICAL SYSTEMS SHALL BE TESTED, ADJUSTED AND BALANCED, INCLUDING SUPPLY AIR SYSTEM, RETURN AIR SYSTEM, EXHAUST AIR SYSTEM,
- OUTSIDE AIR SYSTEM AND ALL ASSOCIATED EQUIPMENT. CONTRACTOR PERFORMING TESTING ADJUSTING AND BALANCING WORK SHALL
- BE EITHER AABC OR NEBB CERTIFIED. TESTING ADJUSTING AND BALANCING SHALL BE PERFORMED IN ACCORDANCE
- TESTING ADJUSTING AND BALANCING REPORT FORMS SHALL BE STANDARD FORMS FROM EITHER AABC OR NEBB.
- CONTRACTOR SHALL VERIFY QUANTITIES AND LOCATIONS OF ALL BALANCING DEVICES. CONTRACTOR SHALL VERIFY THAT THESE BALANCING DEVICES ARE ACCESSIBLE AND APPROPRIATE FOR BALANCING AND FOR EFFICIENT SYSTEM AND EQUIPMENT OPERATION PRIOR TO COMMENCING WORK.
- MECHANICAL AIR AND WATER SYSTEMS SHALL BE ADJUSTED TO WITHIN THE FOLLOWING TOLERANCES. PLUS 5 TO PLUS 10 PERCENT PLUS 5 TO PLUS 10 PERCENT EXHAUST FANS: PLUS 5 TO PLUS 10 PERCENT
- DOM. HW FLOW RATES: ZERO TO MINUS 10 PERCENT FINAL BALANCE REPORT SHALL INCLUDE THE FOLLOWING. TEST CONDITIONS FOR FANS SYSTEM DIAGRAMS AIR CONDITIONING UNIT TEST REPORTS

FAN TEST REPORTS

AIR TERMINAL DEVICE REPORTS

EQUIPMENT WITH FANS: PLUS 5 TO PLUS 10 PERCENT

AIR OUTLETS AND INLETS: ZERO TO MINUS 10 PERCENT

PENETRATION FIRESTOPPING NOTES 1. FIRE RATED PENETRATIONS DETAILS SHOWN ON THE CONSTRUCTIONS DOCUMENTS SHOW GENERAL METHOD OF MECHANICAL (HVAC) AND

- PLUMBING PENETRATION FIRESTOPPING. 2. CONTRACTOR SHALL REVIEW CONSTRUCTION DOCUMENTS AND PROVIDE SPECIFIC FIRESTOPPING DETAILS FROM A SPECIFIC FIRESTOPPING MANUFACTURER FOR EACH MECHANICAL (HVAC) AND PLUMBING PIPE OR DUCT PENETRATION FOR EACH FIRE RATED ASSEMBLY.
- 3. PROVIDE PENETRATION FIRESTOPPING THAT IS PRODUCED AND INSTALLED TO RESIST SPREAD OF FIRE ACCORDING TO REQUIREMENTS INDICATED, RESIST PASSAGE OF SMOKE AND OTHER GASES, AND MAINTAIN ORIGINAL FIRE-RESISTANCE RATING OF CONSTRUCTION
- 4. PENETRATION FIRESTOPPING SYSTEMS SHALL BE COMPATIBLE WITH ONE ANOTHER, WITH THE SUBSTRATES FORMING OPENINGS, AND WITH PENETRATING ITEMS IF ANY.
- 5. PENETRATIONS IN FIRE-RESISTANCE-RATED WALLS: PROVIDE PENETRATION FIRESTOPPING WITH RATINGS DETERMINED PER ASTM E 814 OR UL 1479, BASED ON TESTING AT A POSITIVE PRESSURE DIFFERENTIAL
- 6. PENETRATION FIRESTOPPING PRODUCTS SHALL BEAR UL, ETL OR FM GLOBAL CLASSIFICATION MARKING OF QUALIFIED TESTING AND INSPECTING AGENCY.
- 7. DO NOT INSTALL PENETRATION FIRESTOPPING WHEN AMBIENT OR SUBSTRATE TEMPERATURES ARE OUTSIDE LIMITS PERMITTED BY PENETRATION FIRESTOPPING MANUFACTURERS OR WHEN SUBSTRATES ARE WET BECAUSE OF RAIN, FROST, CONDENSATION, OR OTHER CAUSES.
- 8. COORDINATE CONSTRUCTION OF OPENINGS AND PENETRATING ITEMS TO ENSURE THAT PENETRATION FIRESTOPPING IS INSTALLED ACCORDING TO SPECIFIED REQUIREMENTS.
- 9. COORDINATE SIZING OF SLEEVES, OPENINGS, CORE-DRILLED HOLES, OR CUT OPENINGS TO ACCOMMODATE PENETRATION FIRESTOPPING.
- 10. INSTALL PENETRATION FIRESTOPPING TO COMPLY WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND PUBLISHED DRAWINGS FOR PRODUCTS AND APPLICATIONS INDICATED.
- 11. INSTALL FORMING MATERIALS AND OTHER ACCESSORIES OF TYPES REQUIRED TO SUPPORT FILL MATERIALS DURING THEIR APPLICATION AND IN THE POSITION NEEDED TO PRODUCE CROSS-SECTIONAL SHAPES AND DEPTHS REQUIRED TO ACHIEVE FIRE RATINGS INDICATED.
- 12. IDENTIFY PENETRATION FIRESTOPPING WITH PREPRINTED METAL OR PLASTIC LABELS. ATTACH LABELS PERMANENTLY TO SURFACES ADJACENT TO AND WITHIN 6 INCHES OF FIRESTOPPING EDGE SO LABELS WILL BE VISIBLE TO ANYONE SEEKING TO REMOVE PENETRATING ITEMS

SMOKE DETECTOR NOTES

- 1. SMOKE DETECTORS SHALL BE PHOTOELECTRIC TYPE AND SHALL BE "SYSTEM SENSOR" DH100ACDCLP
- 2. SMOKE DETECTORS SHALL BE INSTALLED IN THE RETURN AIR DUCT OF ALL AIR HANDLING UNITS WITH CAPACITY GREATER THAN 2,000 CFM.
- PROVIDE SMOKE DETECTORS WHERE MULTIPLE AIR-HANDLING SYSTEMS SHARE COMMON SUPPLY OR RETURN AIR DUCTS OR PLENUMS WITH A COMBINED DESIGN CAPACITY GREATER THAN 2,000 CFM.
- 4. THE SMOKE DETECTORS SHALL BE INSTALLED TO MONITOR THE ENTIRE AIRFLOW CONVEYED BY THE SYSTEM INCLUDING RETURN AIR AND
- EXHAUST OR RELIEF AIR. 5. PROVIDE ACCESS TO ALL SMOKE DETECTORS FOR INSPECTION AND
- 6. SMOKE DETECTOR SHALL BE INTERLOCKED WITH SUPPLY FAN. ELECTRICAL STARTER TO SHUT DOWN SUPPLY AIR FAN(S) ON SENSING

MAINTENANCE.

- 7. SMOKE DETECTOR SHALL BE INTERLOCKED WITH FIRE ALARM SYSTEM.
- 8. THE ACTUATION OF A DUCT SMOKE DETECTOR SHALL ACTIVATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY ATTENDED 9. IN ADDITIONAL TO INTERLOCKING THE SMOKE DETECTOR TO THE FIRE

ALARM SYSTEM, THE SMOKE DETECTOR SHALL BE CONNECTED TO A

MULTI-SIGNALLING ANNUNCIATOR PANEL (SYSTEM SENSOR SSK 451) FOR TESTING PURPOSES. 10. MULTI-SIGNALLING ANNUNCIATOR PANEL (SYSTEM SENSOR SSK 451) SHALL BE INSTALLED AS SHOWN ON DRAWING AND AS REQUIRED BY

MECHANICAL SPECIFICATIONS

230100 - BASIC MECHANICAL REQUIREMENTS

BUILDING OFFICIAL FOR TESTING.

- COORDINATE THE LOCATION OF ALL NEW ROOF OPENINGS AND THE LOCATION OF ALL NEW AND RELOCATED ROOF MOUNTED EQUIPMENT WITH THE EXISTING STRUCTURE AND ARCHITECTURAL PLANS PRIOR TO ANY INSTALLATION.
- V-BELT DRIVES SHALL BE OF FABRIC AND RUBBER CONSTRUCTION. BELT GUARDS SHALL BE PROVIDED FOR ALL EXPOSED BELTS AND DRIVES. PROVIDE 6" CONCRETE HOUSEKEEPING PADS UNDER ALL FLOOR MOUNTED EQUIPMENT.
- PROPERLY LUBRICATE ALL PIECES OF EQUIPMENT BEFORE TURNING THE SYSTEM OVER TO THE INSTALL DUCT MOUNTED SUPPLY AND RETURN AIR SMOKE DETECTORS IN ALL ROOFTOP, FAN-COIL. AIR-HANDLING, AND OTHER SUPPLY AIR SYSTEMS, WITH A CAPACITY GREATER THAN 2000 CFM. SMOKE DETECTORS ARE PURCHASED AND WIRED BY THE ELECTRICAL CONTRACTOR.

230500 - BASIC PIPING MATERIALS & METHODS

- CORE CUT ALL PIPE PENETRATION OF EXISTING MASONRY OR CONCRETE WALLS AND FLOORS. SLEEVE ALL PENETRATIONS THROUGH NEW WALLS AND FLOORS. SEAL ALL PENETRATIONS WATER TIGHT WITH SILICONE SEALANT. USE FIRE RATED SEALANT (3M "FIRE BARRIER" OR EQUAL) FOR 1
- **HOUR OR 2 HOUR PENETRATIONS** CAULK AROUND ALL PIPING THAT PASSES THROUGH FIRE-RATED PARTITIONS WITH A NON-HARDENING CAULKING SIMILAR TO 3M "FIRE BARRIER".

230523 - VALVES

SEAL ALL PIPING THROUGH WALLS AIR TIGHT

COMPLIANCE WITH ALL APPLICABLE CODES.

PROVIDE VALVES OF THE TYPE AND QUANTITY SHOWN ON THE DRAWINGS. VALVES OF THE SAME TYPE TO BE BY ONE MANUFACTURER.

230548 - VIBRATION ISOLATION AND SEISMIC BRACING

- ALL MECHANICAL EQUIPMENT DUCTWORK AND PIPING MUST BE VIBRATION ISOLATED AND SEISMICALLY BRACED FOR THE SITE SPECIFIC SEISMIC DESIGN CATEGORY AND SEISMIC USE GROUP, IN ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF THE IBC, UBC, ASHRAE, AND SMACNA. PROVIDE SEISMIC PRODUCTS BY AMBER-BOOTH OR MASON INDUSTRIES
- IN GENERAL PROVIDE SPRING MOUNTS TO ATTENUATE LOW FREQUENCY SOUND AND VIBRATION AND NEOPRENE PADS TO ATTENUATE HIGH FREQUENCY SOUND AND VIBRATION. SEISMIC BRACING/MOUNTING CAN BE COMBINED WITH VIBRATION ISOLATION AS APPLICABLE.

CONTRACTOR MANUFACTURED SEISMIC BRACING/RESTRAINT METHODS ARE NOT ACCEPTABLE.

PROVIDE A SIGNED AND STAMPED LETTER FROM A PROFESSIONAL ENGINEER CERTIFYING THAT THE SUPPLIED PRODUCTS ARE CORRECT FOR THE APPLICATION AND THAT THE INSTALLATION IS IN

MECHANICAL SPECIFICATIONS

PLASTIC TAPE: PROVIDE MANUFACTURER'S STANDARD COLOR-CODED PRESSURE-SENSITIVE (SELF ADHESIVE) VINYL TAPE, NOT LESS THAN 3 MILS THICK. 1-1/2" WIDE TAPE MARKERS ON PIPES WITH OUTSIDE DIAMETERS LESS THAN 6" (INCLUDING

230553 - MECHANICAL IDENTIFICATION

INSULATION, IF ANY); 2-1/2" WIDE TAPE FOR LARGER PIPES

- DUCT MARKERS PROVIDE MANUFACTURER'S STANDARD LAMINATED PLASTIC; COLOR CODED DUCT
- MARKERS.
- . COLOR: COMPLY WITH ANSI A13.1
- **LETTERING** MANUFACTURER'S STANDARD PRE-PRINTED NOMENCLATURE WHICH BEST DESCRIBES PIPING OR DUCT SYSTEM IN EACH INSTANCE OR AS SELECTED BY ARCHITECT OR ENGINEER IN CASES OF VARIANCE WITH NAMES AS SHOWN
- PRINT EACH MARKER WITH ARROWS INDICATING DIRECTION OF FLOW.
- VALVE TAGS: PROVIDE PLASTIC LAMINATE VALVE TAGS: MANUFACTURER'S STANDARD 3/32" THICK ENGRAVED TAGS WITH PIPING SYSTEM ABBREVIATION IN 1/4" HIGH LETTERS AND SEQUENCED VALVE NUMBERS 1/2" HIGH, WITH 5/32" HOLE FOR FASTENER. PROVIDE 1-1/2" SQUARE BLACK TAGS WITH WHITE LETTERING
- VALVE TAG FASTENERS: PROVIDE MANUFACTURER'S STANDARD SOLID BRASS CHAIN (WIRE LINK OR BEADED TYPE), OR SOLID BRASS S-HOOKS OF THE SIZED REQUIRED FOR PROPER ATTACHMENT OF TAGS TO VALVES, AND MANUFACTURED SPECIFICALLY FOR THAT PURPOSE.

230593 - TESTING, ADJUSTING, AND BALANCING

OBTAIN THE SERVICES OF AN INDEPENDENT TESTING AND BALANCING AGENCY TO BALANCE AND ADJUST THE SYSTEM. THIS SHALL BE DONE BY PERSONS FULLY FAMILIAR WITH SYSTEMS OF THIS TYPE. BALANCING SHALL BE DONE IN ACCORDANCE TO AABC OR NEBB STANDARDS. ALL DATA SHALL BE RECORDED AND A REPORT SUBMITTED TO THE ENGINEER PRIOR TO JOB

230700 - MECHANICAL INSULATION

- PIPE INSULATION TO BE SNAP-ON GLASS FIBER TYPE WITH VAPOR JACKET. SEAL ALL ENDS AND JOINTS TO PROVIDE A COMPLETELY SEALED SYSTEM. ALTERNATIVELY, USE FLEXIBLE UNICELLULAR ASTM 534 TYPE 1 INSULATION. USE 1" THICKNESS FOR PIPE UP TO 2"Ø. AND 1 1/2" FOR PIPE OVER 2"Ø
- WRAP ALL SUPPLY AND RETURN DUCTWORK WITH 1-1/2" THICK FOIL FACED FIBERGLASS INSULATION. WRAP INSULATION TIGHTLY ON THE DUCT WITH ALL CIRCUMFERENTIAL JOINTS BUTTED AND LONGITUDINAL JOINTS OVERLAPPED A MIN. OF 2". COVER ALL JOINTS WITH FOIL-REINFORCED 'KRAFT' TAPE. 3" WIDE. DUCTWORK INTERIOR TO BUILDING ENVELOPE WITH A MINIMUM R-5 WHILE EXTERIOR DUCTWORK INSULATION SHALL BE MINIMUM R-12.
- . NO RETURN AIR DUCT INSULATION IS REQUIRED IF THE RETURN AIR AND PLENUM TEMPERATURE DIFFERENCE IS LESS THAN 10°F
- OUTDOOR DUCTWORK EXPOSED TO THE WEATHER SHALL HAVE 2" INSULATION AND SHALL BE FITTED WITH 0.016 EMBOSSED ALUMINUM JACKET POP-RIVITED FOR A TIGHT WEATHERPROOF FIT

233113 - METAL DUCTWORK ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED, AND TESTED IN ACCORDANCE WITH

- THE MOST RESTRICTIVE OF LOCAL REGULATIONS AND PROCEDURES DETAILED IN THE ASHRAE HANDBOOK OF FUNDAMENTALS, OR THE APPLICABLE STANDARDS ADOPTED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION.
- TRANSITION ALL NEW DUCTWORK TO CONNECT TO EXISTING, AS REQUIRED. DUCTWORK SHALL BE GALVANIZED STEEL THROUGHOUT, FABRICATED AND INSTALLED SO
- THAT NO VIBRATION OR NOISE RESULTS. IT SHALL BE MADE FROM THE BEST GRADE OF GALVANIZED MILLED STEEL SHEETS OF U.S. STANDARD GAUGE AND BE FREE FROM BLISTERS, SLIVERS, AND PITS. ALL SEAMS SHALL BE AIRTIGHT, THE CONSTRUCTION OF AL DUCTWORK INCLUDING GALIGES OF METAL BRACING LAYOUT ETC. SHALL BE IN ACCORDANCE WITH SMACNA. SLEEVES FOR FIRE DAMPERS AND DUCT SECTIONS FORMING AN EXTENSION OF THE FIRE WALL SHALL BE 10 GAUGE STEEL
- SEAL DUCTWORK ACCORDING TO THE FOLLOWING SMACNA DUCT SEALING CLASS: DUCT LOCATION DUCT TYPE
- SUPPLY EXHAUST RETURN UNCONDITIONED SPACES CONDITIONED SPACES (EXPOSED DUCTWORK) HANGERS FOR DUCTS UP TO 18" IN WIDTH OR DIAMETER SHALL BE PLACED ON NOT MORE
- DIAMETER. HANGERS SHALL EXTEND DOWN SIDES AND A MINIMUM OF 1" UNDER RECTANGULAR DUCTS, AND WRAP COMPLETELY AROUND ROUND DUCTS. ALL DUCTS SHALL BE RIGIDLY SUPPORTED.

THAN 8 FOOT CENTERS. DUCTS 19" AND OVER IN WIDTH OR DIAMETER SHALL BE

CONSTRUCTED OF GALVANIZED BAND IRON 1-1/8" FOR DUCTS UP TO 36" IN WIDTH OR

SUPPORTED ON NOT MORE THAN 4 FOOT CENTERS. DUCT HANGERS SHALL BE

- ALL DUCTWORK SHALL BE CLEANED PRIOR TO THE INSTALLATION OF CEILING AND DIFFUSERS. OPERATE FANS TO BLOW OUT DUCTWORK. RECTANGULAR LOW-PRESSURE SUPPLY AND RETURN AIR DUCTWORK SHALL BE LINED WITH 1" FACED FIBERGLASS INSULATION SECURELY BUTTONED OR LAPPED AND SEALED.
- OUTDOOR DUCTWORK EXPOSED TO THE WEATHER SHALL BE LINED WITH MINIMUM R-8 FACED FIBERGLASS INSULATION SECURELY BUTTONED OR LAPPED AND SEALED. AND SHALL BE FITTED WITH A 0.016 EMBOSSED ALUMINUM JACKET POP RIVETED FOR A WEATHERPROOF FIT
- JOHN-MANSVILLE OR SCHULLER INTERNATIONAL CLASS I KITCHEN EXHAUST HOOD DUCT SYSTEMS:

DUCT DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE CLEAR AREA AND SHALL BE

INCREASED TO ACCOMMODATE INSULATION, DUCT LINER TO BE BY KNAUF GmbH.

- A TYPE LCOMMERCIAL HOOD AND GREASE DUCT SHALL MEET CLEARANCE REQUIREMENTS FROM COMBUSTIBLE AND NONCOMBUSTIBLE CONSTRUCTION IN ACCORDANCE TO 2012 IMC SECTION 507.9 AND ASTM E23-36. B. CONSTRUCT EXHAUST DUCT OF WELDED 16 GAGE CARBON STEEL SHEETS FOR
- CONCEALED DUCTS, AND WELDED OR FLANGED 18 GAGE STAINLESS STEEL FOR EXPOSED DUCTS C. SLOPE HORIZONTAL DUCT AT 1/4" PER FOOT TOWARD HOOD.

PROVIDE ACCESS DOORS AT EACH CHANGE OF DIRECTION.

INSULATION SHALL BE 1-1/2 POUND DENSITY

. PROVIDE RESIDUE TRAP AT THE BASE OF EACH VERTICAL RISER, WITH PROVISIONS FOR CLEANOUT F. ALL SEAMS, JOINTS AND PENETRATIONS SHALL HAVE A LIQUID-TIGHT, CONTINUOUS. EXTERNAL WELD. G. PROVIDE AND INSTALL ONE OF THE FOLLOWING SYSTEMS: DUCT ENCLOSURE WITH 2-HR IRE RESISTIVE CONSTRUCTION OR, A DUCT WRAP SYSTEM - 3M FIREMASTER GREASE

DUCT SYSTEM - METAL FAB MODEL "NO CHASE IPIC". OR APPROVED EQUAL.

ADMINISTRATIVE AUTHORITY AND STATE FIRE MARSHALL.

WHICHEVER METHOD IS CHOSEN MUST HAVE APPROVAL FROM THE

DUCT FIRE PROTECTION SYSTEM, OR APPROVED EQUAL, OR, A PREFABRICATED GREASE

MECHANICAL SPECIFICATIONS

- 233300 DUCTWORK ACCESSORIES LEXIBLE DUCTWORK: THE FINAL 5 FOOT CONNECTION TO GRILLES AND DIFFUSERS IN
- LAY-IN CEILINGS, OR TO FLOOR MOUNTED GRILLES, MAY BE MADE WITH FLEXIBLE DUCT, FLEXMASTER TYPE 5M ONLY. ENDS SHALL BE SEALED.
- SQUARE/RECTANGULAR ELBOWS SHALL BE PROVIDED WITH TURNING VANES. PROVIDE FLEXIBLE CONNECTIONS NOT LESS THAN 4" WIDE CONSTRUCTED OF HEAVY, WATERPROOF, WOVEN PLASTIC COATED GLASS FABRIC AT SUPPLY AND RETURN CONNECTIONS TO HEAT PUMPS, AIR HANDLING, ROOFTOP, MAKE-UP AIR OR FAN-COIL UNITS
- COMBINATION FIRE AND SMOKE DAMPERS. SMOKE DAMPERS. OR FIRE DAMPERS. IN DUCTWORK THROUGH ALL FLOORS AND FIRE WALLS SHALL BE FURNISHED AND INSTALLED AS REQUIRED TO CONFORM TO THE LATEST NFPA BULLETIN CONCERNING THIS TYPE OF BUILDING AND SHALL BE LISTED AND LABELED IN ACCORDANCE WITH THE STANDARDS AND EQUIREMENTS OF UL555 AND UL555S. DAMPERS, COMPLETE WITH MOUNTING ANGLES, SHALL BE MULTI-BLADE, FUSIBLE LINK, SPRING ACTING WITH 11 GAUGE SLEEVE. FUSIBLE LINK SHALL BE RATED AT 165°F. CONTROLLED BY AUTOMATIC SMOKE DETECTION IN DUCT

CORNERS SHALL BE SEWN TIGHT. CONNECTIONS SHALL BE 20 OUNCE VENTFABRICS OF

DUCT MOUNTED BALANCING DAMPERS SHALL BE USED TO CONTROL SUPPLY AIR TO EACH DIFFUSER AND GRILLE. AN OPERATING HEAD SHALL BE PLACED ON THE SIDE OF THE DUC WITH A POSITIVE LOCKING QUADRANT. DAMPERS SHALL BE PROVIDED IN RETURN AND EXHAUST AIR DUCTS WHERE SHOWN ON DRAWINGS. COORDINATE THE LOCATION OF

PROVIDE CEILING ACCESS DOORS AT ALL LOCATIONS OF BALANCING DAMPERS, FIRE DAMPERS, FIRE/SMOKE DAMPERS, VALVES, ETC., WHERE THERE IS NOT A LIFT-OUT TYPE CEILING. ACCESS DOORS SHALL BE HINGED OF METAL CONSTRUCTION WITH SCREWDRIVER LATCHES. ACCESS DOORS TO BE LISTED AND FIRE RATED EQUAL TO OR GREATER THAN TH

AT FIRE DAMPERS, A DUCT MOUNTED SHEET METAL HINGED DOOR SHALL BE PROVIDED ANI INSTALLED WITH POSITIVE LOCKING HANDLE. WHERE DUCTS ARE INSULATED, COVERS SHALL BE INSULATED. FIRE DAMPERS SHALL BE LISTED AND LABELED IN ACCORDANCE WIT THE STANDARDS AND REQUIREMENTS OF UL555. CONTROLLED BY FIRE DETECTOR, FUSABLE LINK OR FLECTRICAL FUSABLE LINK PROVIDE 1 1-1/2 OR 3 HR FIRE RATED MATERIALS AT ALL PENETRATIONS OF FIRE BARRIERS BY DUCTS. SYSTEM APPROVED BY ASTM E 814 OR

GRAVITY OR BACKDRAFT DAMPERS SHALL BE ALL ALUMINUM CONSTRUCTION. INTERCON-

NECTED AND BLADED, PRESSURE DROP THROUGH DAMPERS SHALL NOT EXCEED 0.04" W.

FIRE ALARM CONTRACTOR SHALL TEST FOR FIRE/SMOKE DAMPERS AS REQUIRED BY LOCAL

BUILDING OFFICIAL AND FIRE AUTHORITY PRIOR TO OCCUPANCY 233416 - FANS

OR AREA OF SMOKE DISPERSION.

RATING ASSEMBLY THEY ARE INSTALLED IN

- ROOF MOUNTED EXHAUST FANS SHALL BE COMPLETE WITH BACKDRAFT DAMPERS. A
- DISCONNECT SWITCH SHALL BE PROVIDED AT THE FAN. THE DISCONNECT SWITCH SHALL TURN OFF THE FAN WITH THE ACTIVATION OF SMOKE
- THE FAN SHALL BE COMPLETE WITH INSECT SCREEN AND PREFABRICATED ROOF
- CEILING MOUNTED EXHAUST FANS SHALL BE COMPLETE WITH LOUVERED GRILLE BACKDRAFT DAMPER, AND WALL CAP OR ROOF CAP, SEE PLANS. FANS FOR GREASE HOOD APPLICATIONS SHALL BE UPBLAST TYPE, LISTED AND

LABELED FOR GREASE HOOD USE AND INSTALLED PER APPLICABLE CODES.

UTILITY FAN SETS SHALL BE BELT DRIVEN, CENTRIFUGAL FANS CONSISTING OF WEATHER PROOF HOUSING, WHEEL FAN SHAFT, BEARINGS, MOTOR, DISCONNECT SWITCH, DRIVE ASSEMBLY, DRAIN CONNECTION AND ACCESSORIES.

233713 - GRILLES, DIFFUSER AND LOUVERS

MANUFACTURERS: COOK, ILG, PENN, GREENHECK, & BROAN

- ALL GRILLES, DIFFUSERS, AND REGISTERS SHALL BE COMPLETE WITH FRAMES AND RUBBER GASKETS. FINISH FOR ALL REGISTERS, DIFFUSERS, AND GRILLES SHALL BE
- COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL LIGHTING

WITH ADJACENT SUBSTRATE AND FIT ACCURATELY FOR WEATHERPROOF

LOUVERS SHALL HAVE MINIMUM FREE AREA AND MAXIMUM PRESSURE DROP AS

LISTED IN THE SCHEDULES. LOUVER SHALL HAVE FRAME AND SILLS COMPATIBLE

INSTALLATION. LOUVERS SHALL BE COMPLETE WITH 1/2" MESH ANODIZED ALUMINUM

- project: LAYOUT, AND ARCHITECTURAL ELEVATIONS.
 - Brighton
 - 4905, 4911, 4915, 4925, 4931, & 4953 South 900 East

| Salt Lake County

April 24, 2017

date

revisions PERMIT SET-December 28, 2016 √ADDENDUM #1-January 04, 2017 √ADDENDUM #3-January 11, 2017 ADDENDUM #4-January 17, 2017

ADDENDUM #5-January 20, 2017

9\ADDENDUM#9 - April 11, 2017

ADDENDUM#7-February 24, 2017 √ADDENDUM#8 — March 20, 2017

data broject no: drawn by:

sheet

checked by: MECHANICAL **EQUIPMENT**

SPECIFICATIONS

Architect Donald

Welch

324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077

www.spectrum-engineers.com THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS GRAPHIC REPRESENTATION & MODELS THEREOF, ARE PROPRIETARY & CAN NOT BE COPIED, DUPLICATED, OR COMMERCIALLY EXPLOITED IN WHOLE OR IN PART WITHOUT THE SOLE AND EXPRESS WRITTEN

801-328-5151

fax: 801-328-5155

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

PERMISSION FROM DONALD L. WELCH



		MA	KE-	UP A	IRι	JNIT SCI	HEDULE (2	2-STAC	GE HEA	TING/ E	VAP COOL	ING) (BI	LDG 'D')
SYMBOL	MANUFACTURER	MODEL#	CFM	VOLT/PH	EER	COOLING CAP HI/LOW (BTUH)	HEATING INPUT 1ST/2ND STAGES (BTUH)	VOLT/PH	ELECTRICAL MCA (AMPS)	MAX FUSE	DIMENSIONS H X W X L	WEIGHT (LBS)	COMMENTS
MAU-1	SEE MANUFACTURER'S EQUIPMENT SCHEDULE BELOW												

MAU-1

Item	Qty	Description
	1 ea	MAKE-UP AIR UNIT Fan #2 D76 - Heater
		D76 Low CFM Direct Fired Heater. Belt Drive.
		Supply Fan handles 1152 CFM @ 0.500" wc ESP, Fan runs at 1917 RPM.
		Heater supplies 99533 BTUs. 80°F Temperature Rise. [Fuel: Natural
		Gas] Supply Motors 1,000 HB, 2 Phase, 208 V, 60Hz, 2 4 FLA, ODB (Open Drin
		Supply Motor: 1.000 HP, 3 Phase, 208 V, 60Hz, 3.4 FLA, ODP (Open Drip Proof)
		Down Discharge - Air Flow Right -> Left x1
		- Size # 1 Celdek Evaporative Cooler for Compact Direct-fired Heater.
		26.75" Wide X 76.438" Long X 29.688" High.
		Includes intake hood with filters. For outdoor installation. x1
		- RTC Solutions • 40-90°F Discharge Temp Control x1
		- Gas Manifold for Commercial GM - BTU 0 - 241291 - 7 in. w.c 14 in.
		w.c., No Insurance Requirement (ANSI), BV250-44 x1
		- Cooling Interlock Relay. 24VAC Coil. 120V Contacts. Locks out burner
		circuit when AC is energized. x1
		 - Gas Pressure Gauge, 0-35", 2.5" Diameter, 1/4" Thread Size x1 - Gas Pressure Gauge, -5 to +15 Inches Wc., 2.5" Diameter, 1/4" Thread
		Size x1
		- Freeze Protection Drain Control kit for Evaporative Coolers. Includes
		3-Way water solenoid valve 8316G064 (shipped loose), Pressure
		switch installed upstream of 2way solenoid in unit, Brass Tee, 2 NPT
		half inch nipples, and two stage thermostat T678a-1015. Field wiring
		required by others for 3-way valve. For both Celdek and Standard V-
		bank type Configurations. x1
		- Motorized Back Draft Damper 13" X 17" for D76 Compact Direct Fired
		Heaters w/Extended Shaft, Standard Galvanized Construction, 3/4"
		Rear Flange, TF120S Actuator Included x1 - Curb CRB19.5X52X20INS Insulated On Fan # 2 Flat Curb x1
		- Rail ADJUSTLEG-36 On Fan # 2 x1
	1 00	ELECTRICAL SYSTEM #1 SC-311110FP 3 Phase w/ control for 1 Exhaust
	1 64	Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fan(s) On/Off
		Thermostatically Controlled. Room temperature sensor shipped loose
		for field installation. Includes 1 Duct Thermostat kit. x1
		- Digital Prewire Lighting Relay Kit. Includes hood lighting relay &
		terminal blocks. Allows for up to 1400W of lighting each. x1
	1 ea	DUCT WORK Duct Run #1
		(P1) DW1258250LT Single Wall Duct 12" diameter, 58.250" long, flange
		at both ends. Stainless Steel. x1
		(P2) DW1260AJDKIT Single Wall Duct Adjustable, 12" diameter, 59.5"
		long, flange at one end With a 12" Diameter - 4" Tall - Adjustable Colla
		- Stainless Steel. x1 (P3) DW12VESU18 Duct Vertical Support Assembly, 12" Duct, 18"
		Clearance To Combustibles. Parts are Zinc Coated. x1
		(P4) DW2312TP Duct to Curb Transition, 23" Curb to 12" Duct, 16 GA
		Aluminized. Misc. non-standard transition plate. x1
		3M-2000PLUS Duct - 3M Fire Barrier 2000 Plus Silicone - Used as sealan
		to Seal Duct Joints. x1
		834680600587XL Duct - Duct insulation for zero clearance to
		combustibles - 300" x 24" x 1-1/2" Roll. Pyroscat Wrap. x2
		BANDING.5 Duct - Fire Barrier Wrap Stainless Steel Banding .5" Width
		200 FT Per Roll. x1
		DW12CLASY Duct "V" Clamp With new design 14 Ga Brackets, 12" Duct
		Assembly, x2
		SEAL.50-50 Duct - Fire Barrier Wrap Stainless Steel Banding Seal .5"
		Width. Quantity of 50. x1 TAPEALLIM Duct - Fire Barrier Wran Aluminum Foil Tape - 3" v 150' Rol
		TAPEALUM Duct - Fire Barrier Wrap Aluminum Foil Tape - 3" x 150' Roll

TYPE I KITCHEN HOOD

	ltem	Qty	Description
C)1	1 ea	HOOD#1
			Captive Aire Model No. HOOD #1
			Hood #1
			5424ND-2-PSP-F - 6ft 0" Long Exhaust-Only Wall Canopy Hood with
			Front Perforated Supply Plenum with Built-in 3" Back Standoff x1 - 430 SS Where Exposed x1
			- Utility Cabinet on the Right Side x1
			- FILTER - 20" tall x 16" wide Stainless Steel Captrate Solo filter with
			hook, ETL Listed. Particulate capture efficiency: 93% efficient at 9 microns, 72% efficient at 5 microns x4
			- L55 Series E26 Canopy Light Fixture - High Temp Assembly, Includes
			Clear Thermal and Shock Resistant Globe (L55 Fixture), Bulbs By Others x2
			- EXHAUST RISER - Factory installed 12" Diameter X 4" Height x1
			- SUPPLY RISER - 10"x 28" Supply Riser with Volume Dampers x2
			- 1/2 Pint Grease Cup New Style, Flanged Slotted x2
			- LEFT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High 430 SS x1
			- RIGHT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High 430 SS x1
			- Electrical Package Installation in Utility Cabinet by Plant. x1

1 ea	FIRE SUPPRESSION - Fire Suppression System

eage Charge: (27) x 2

		GR	EASE	ΞXΗ	AUST	FAI	N SCI	HED	DULE	(BLDG	'D')		
	MANUFACTURER				FAN		ELECTR	ICAL		OPERATING	CONTROL	ACCESSORIES	
SYMBOL	AND MODEL NO.	LOCATION	TYPE	TYPE			MO	MOTOR			WEIGHT	METHOD	AND DEMARKS
	AND MODEL NO.			CFM	ESP	H.P.	WATTS	VOLT	PHASE	(LBS.)	METHOD	AND REMARKS	
GEF-1	1 SEE MANUFACTURER'S EQUIPMENT SCHEDULE BELOW												

GEF-1

1 ea FAN #1 Fan #1 NCA14FA - Exhaust Fan NCA14FA Belt Drive Centrifugal Upblast Exhaust Fan with 15.7 Exhaust Fan handles 1440 CFM @ -1.250" wc ESP, Fan runs at 1	
Exhaust Motor: 1.000 HP, 3 Phs, 208 V, 60Hz, 3.4 FLA, ODP (Operoof) x1 - Grease Cup for kitchen-duty centrifugal exhaust fans, Box Dimensions 17-1/8 L X 5-1/16 W X 3-3/4 H (18 GA.) (Includ Spout) x1 - Gasketing - Thermeez Woven Ceramic Tape - 1/4" x 1" with a back - Max Temp 1500°F. To be applied between fan base and duct. Ships loose with fan. Gasket length supplied = perimete base. x1 - Curb CRB23x22E On Fan # 1 Flat Curb x1 - Hinged Base for Curb. Standard Hinge attached to curb. Used	des Down adhesive d grease er of fan
with wheels 20 inches or smaller. 12 GA Galvanized. x1 - Vented Base for Curb x1	J 011 1 a113

	• /	·
01	1 ea	HOOD#1
		Captive Aire Model No. HOOD #1
		Hood #1
		5424ND-2-PSP-F - 6ft 0" Long Exhaust-Only Wall Canopy Hood with
		Front Perforated Supply Plenum with Built-in 3" Back Standoff x1
		- 430 SS Where Exposed x1
		- Utility Cabinet on the Right Side x1
		- FILTER - 20" tall x 16" wide Stainless Steel Captrate Solo filter with
		hook, ETL Listed. Particulate capture efficiency: 93% efficient at 9
		microns, 72% efficient at 5 microns x4
		- L55 Series E26 Canopy Light Fixture - High Temp Assembly, Includes
		Clear Thermal and Shock Resistant Globe (L55 Fixture), Bulbs By Others
		x2
		- EXHAUST RISER - Factory installed 12" Diameter X 4" Height x1
		- SUPPLY RISER - 10"x 28" Supply Riser with Volume Dampers x2 - 1/2 Pint Grease Cup New Style, Flanged Slotted x2
		- LEFT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High
		430 SS x1
		- RIGHT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23"
		High 430 SS x1
		- Electrical Package Installation in Utility Cabinet by Plant. x1
		J,,

KITCHEN HOOD FIRE SUPPRESSION SYSTEM

у	Description
. ea	FIRE SUPPRESSION - Fire Suppression System
	Complete field installed UL300 hood fire suppression system (non union / non prevailing wage labor) Includes up to a 2" mechanical Gas valve, chrome sleeving on exposed piping, test, and Permits as required. Price is for a system that is installed during normal daytime weekday business hours. Any weekend or night work required will be extra. Gas valve needs to be installed by others prior to the fire system installation. Price is for surface mounted tension lines in conduit. If recessed tension lines are required, please consult CAS for revised price & requirements. Price includes two trips to jobsite. One trip is for installation, second trip is for test. Additional charges will apply for additional trips needed because of failed tests.
ea	FACTORY SERVICES Factory Services Service Design Verification for Direct Fired Heater x1
	Service Design Verification for Evap Cooler x1
	Service Design Verification for Exhaust Fan x1
	Service Design Verification for Hood x1
	Service Design Verification for Standard Electrical Control Package x1
	Service Design Verification Mileage Charge: (27) x 2 = 54 total miles x1

ELECTRIC UNIT HEATER SCHEDULE ELECTRICAL ACCESSORIES

SYMBOL	AND MODEL NO.	LOCATION	ARRANGEMENT	CFM	KW	MOTOR H.P.	VOLT	PHASE	WEIGHT (LBS.)	NOTES	AND REMARKS
EUH-1	TRANE UHEC03	WATER ENTRIES	VERTICAL	400	3.3	1/125	208	1	132	3	WALL HUNG
EUH-2	TRANE UHCA02	EXIT DOORS	HORIZONTAL	-	2.0	-	208	1	-	1,2	RECESSED, CEILING MOUNTED
EUH-3	TRANE UHAA15	CUSTODIAN	VERTICAL	-	1.5	-	208	1	22	1,2	RECESSED, WALL MOUNTED

(1) UNIT MOUNTED TAMPERPROOF THERMOSTAT

(2) UNIT MOUNTED DISCONNECT SWITCH

(3) PROVIDE WALL MOUNTED LINE VOLTAGE THERMOSTAT AND TAMPERPROOF WALL BRACKET

	DIFFUSER AND GRILLE SCHEDULE											
SYMBOL	MANUFACTURER AND MODEL NO.	LOCATION	CFM	OVERALL SIZE	NOTES	ACCESSORIES AND REMARKS						
SG-1	TITUS 300R	CEILING	SEE PLANS	14 X 6 10 X 6	3,5	CEILING SUPPLY GRILLE W/ FIRE DAMPER						
CD-1	7 TITUS PAS-FR	CEILING	SEE PLANS	24 X 24 12 X 12	2,5	CEILING DIFFUSER W/ FIRE DAMPER						
RG-1	TITUS PAR-FR	CEILING	SEE PLANS	24 X 24 16 X 16	2,5	RETURN GRILLE W/ FIRE DAMPER						
EG-1	TITUS 63F	EXTERIOR EXHAUST TERMINATION	SEE PLANS	8X6	4	EXHAUST DISCHARGE GRILLE, ALUMINUM						
DG-1	TITUS CT-700L	DOOR TRANSFER	SEE PLANS	18 X 12	1	DOOR GRILLE						

FIRE RATING NOTE: ALL CEILING DUCTWORK & DIFFUSER PENETRATIONS TO HAVE UL CLASSIFIED FIRE DAMPERS TO MAINTAIN FIRE RATING. (TYPICAL)

(1) PROVIDE AUXILIARY FRAME FOR TO ALLOW FOR FINISHED LOOK ON BOTH SIDES OF DOOR. (2) PROVIDE FRAME AND BALANCING DAMPER ACCESSIBLE THROUGH GRILLE FOR HARDLID CEILING APPLICATIONS AS REQUIRED.

(3) PROVE DOUBLE DEFLECTION GRILLE WITH INTEGRAL BALANCING DAMPER.

(5) PROVIDE UL CLASSIFIED <u>FIRE RATED</u> CEILING DIFFUSER ASSEMBLY.

					EXH	AUS	ΓFA	N SC	HE	DULE	=		
		MANUFACTURER AND MODEL NO.	LOCATION		F	AN		ELECTR	ICAL		OPERATING	CONTROL	ACCESSORIES
	SYMBOL			TYPE	CFM	ESP	H.P.	TOR WATTS	VOLT	PHASE	WEIGHT (LBS.)	METHOD	AND REMARKS
A	EF-1	PANASONIC FV-05-11VKS1	PRIVATE UNIT BATHROOMS	CEILING	110	0.5	-	57	115	1	27	1	CEILING MOUNTED W/ WHITE GRILLE
(EF-2	PANASONIC FV-11-15VKS1	PUBLIC RESTROOM	CEILING	150	0.5	-	13	115	1	27	1	CEILING MOUNTED W/ WHITE GRILLE

CONTROL METHOD: (1) CONTROLLED BY WALL SWITCH (2) FAN RUNS CONTINUOUSLY DURING BUILDING OCCUPANCY (3) CONTROLLED BY LINE VOLTAGE SPACE THERMOSTAT

ACCESSORIES: (1) STANDARD DISCONNECT NEMA 1 (2) BACKDRAFT DAMPER

(3) FLEX DUCT CONNECTION (4) FAN SPEED CONTROLLER 5A 120V PREWIRED

(5) RUBBER ISOLATOR SET (4) (6) PROVIDE UL LISTED CÉILING RADIATION DAMPER TO MATCH FAN TYPE (PANASONIC-RD05C3)

	ROOFTOP UNIT SCHEDULE (2-STAGE HEATING/COOLING)													
SYMBOL	MANUFACTURER	MODEL#	CFM	ESP	VOLT/PH	EER	COOLING CAP HI STAGE	HEATING INPUT (BTUH)	VOLT/PH	ELECTRICAL MCA (AMPS)	MAX FUSE	DIMENSIONS H X W X L	WEIGHT	COMMENTS
							(BTUH)	,	VOLI/III	WOT (TIVIT O)	1717 002		(LBS)	
RTU-1	TRANE	4YCZ6036	1200	1.0	208/3	16.0	36,000	96,000	208/3	19.1	30 A	48" X 45" X 52"	550	HORIZONTAL SUPPLY/RETURN
RTU-2	TRANE	YHC047E3	1600	1.0	208/3	16.0	50,500	120,000	208/3	28.9	40 A	41" X 53" X 88"	800	HORIZONTAL SUPPLY/RETURN

- (1) PROVIDE DIGITAL REMOTE PROGRAMMABLE THERMOSTAT IN LOCKABLE COVER. 0-25% MANUAL FRESH AIR DAMPER (BUILDING B RTUS)
- (3) 0-100% HORIZONTAL ECONOMIZER (BUILDINGS A & C THRU F RTUS)

(4) 13" HIGH ROOF CURB/PLATFORM

- (5) CRANKCASE HEATER FOR LOW AMBIENT COOLING PROVIDE INSULATED DUCT SHROUD ON ALL EXTERIOR DUCTWORK
- (7) GAS PRESSURE REGULATOR & ISOLATION VALVE
- (8) 120 V CONVENIENCE OUTLET INTEGRAL TO UNIT
- (9) CONDENSER COIL HAIL GUARD
- (10) NON-FUSED DISCONNECT INTEGRAL TO UNIT (11) GAS & ELECTRIC FEEDS TO ENTER THROUGH BASE OF UNIT

	DUCTLESS SPLIT SYSTEM HEAT PUMP													
SYMBOL	MANUFACTURER	INDOOR UNIT COOLING HEATING OUTDOOR UNIT CAPACITY CAPACITY CO		COMMENTS										
STIVIBOL	LIMANOPACTOREK	MODEL#	CFM	VOLT/PH	RLA (AMPS)	(BTUH)	(BTUH)	SYMBOL	VOLT/PH	MCA (AMPS)	MODEL#	HSPF	SEER	GOWNELTTO
DSS-1	LENNOX	MS8-HI-24P	590	208/1	0.24	25,000	26,000	CU-1	208/1	16.0	MS8-HO-24P	10.20	18.00	HIGH SIDEWALL STYLE (BLDGS. A, B, D, E & F)
DSS-2	LENNOX	MS8-HI-30P	705	208/1	0.40	30,000	33,000	CU-2	208/1	20.0	MS8-HO-30P	8.20	16.00	HIGH SIDEWALL STYLE (BLDG. C)

- (1) PROVIDE REMOTE PROGRAMMABLE THERMOSTAT. BUILDINGS A, B, D, E & F MAX TEMP 85F (ADJ.) BUILDING C COOLING SETPOINT 70F (ADJ.) MAINTAIN 50F HEATING SETPOINT (ADJ) (2) BUILT IN CONDENSATE PUMP / DISCHARGE CONDENSATE TO APPROVED LOCATION
- (3) MULTI-SPEED FAN
- (4) DEFROST CONTROL
- (5) COMPRESSOR OVERCURRENT PROTECTION
- (6) PROVIDE MANUFACTURER'S WALL CHANNEL (SPEEDICHANNEL SYSTEM) TO CONCEAL ALL REFRIGERANT PIPING EXPOSED TO VIEW AND EXTERIOR CONDITIONS.
- (7) PROVIDE MANUFACTURER'S CONDENSER PAD 18 X 36 X 2

Donald L. Welch Architect Sandy Land L



324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC 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

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

consultant: **04-24-2017** BENJAMIN .

project:

for New Brighton Recovery

Campus 4905, 4911, 4915, 4925, 4931, & 4953 South 900 East | Salt Lake County,

date

April 24, 2017

revisions

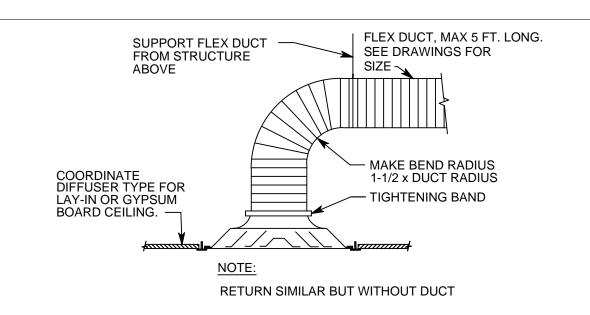
PERMIT SET-December 28, 2016 ADDENDUM #1-January 04, 2017 3\ADDENDUM #3-January 11, 2017 4\ADDENDUM #4-January 17, 2017 5 ADDENDUM #5-January 20, 2017 ADDENDUM#7—February 24, 2017 **ADDENDUM#8 - March 20, 2017 $\sqrt{9}$ ADDENDUM#9 – April 11, 2017

data

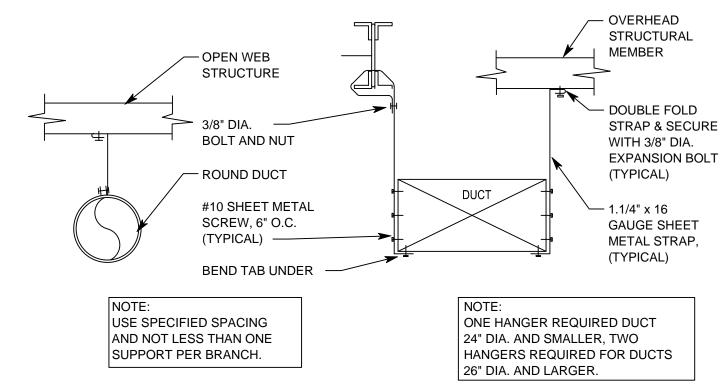
project no: drawn by: checked by:

MECHANICAL SCHEDULES

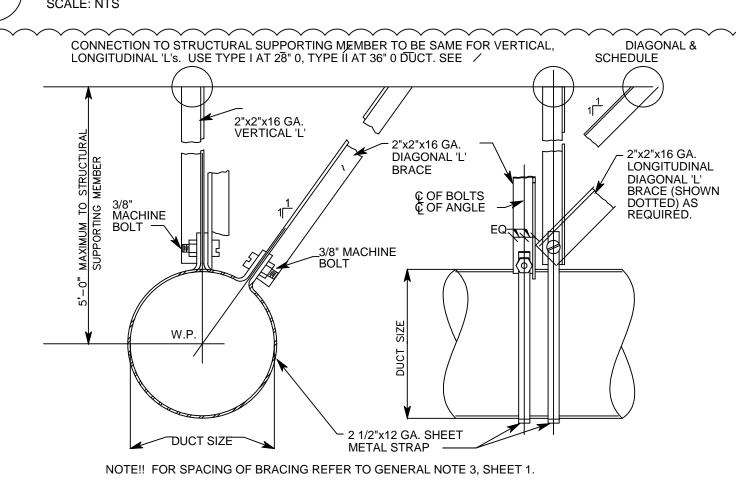
sheet



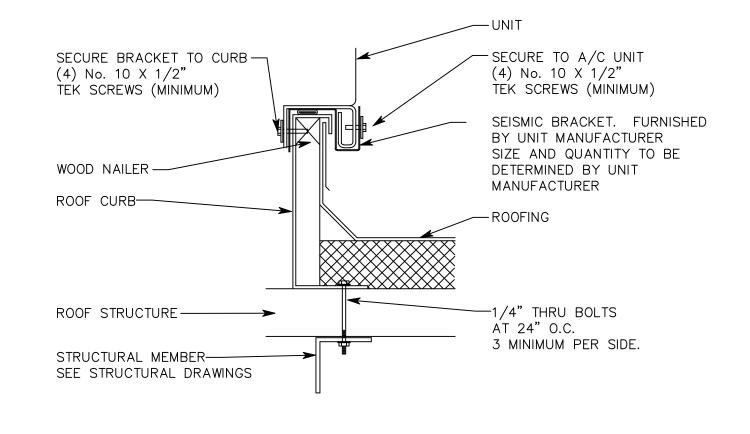
DIFFUSER CONNECTION



DUCT HANGER



TYP BRACING FOR ROUND DUCT

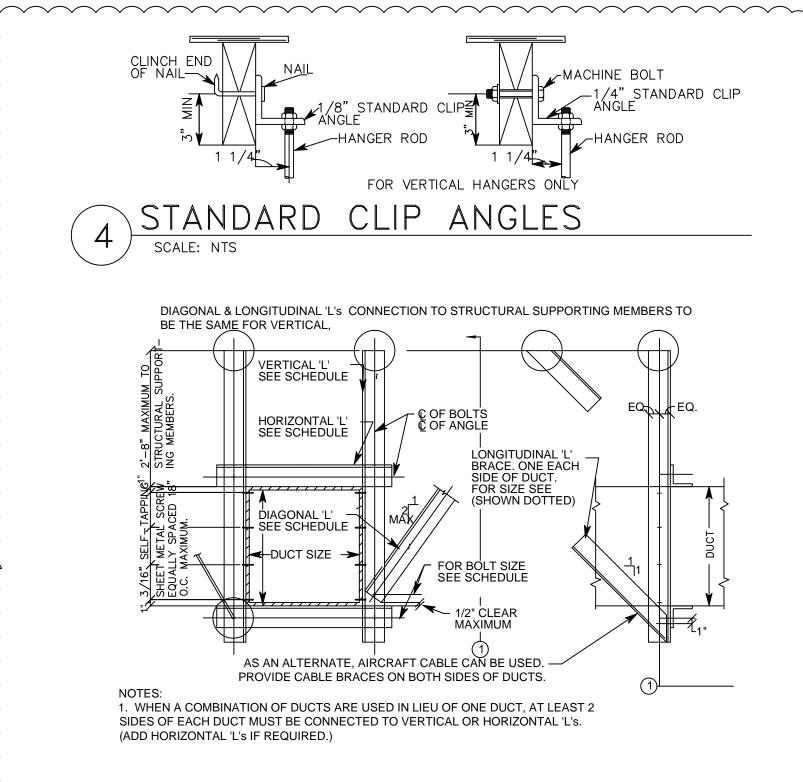


ROOF CURB SEISMIC BRACE

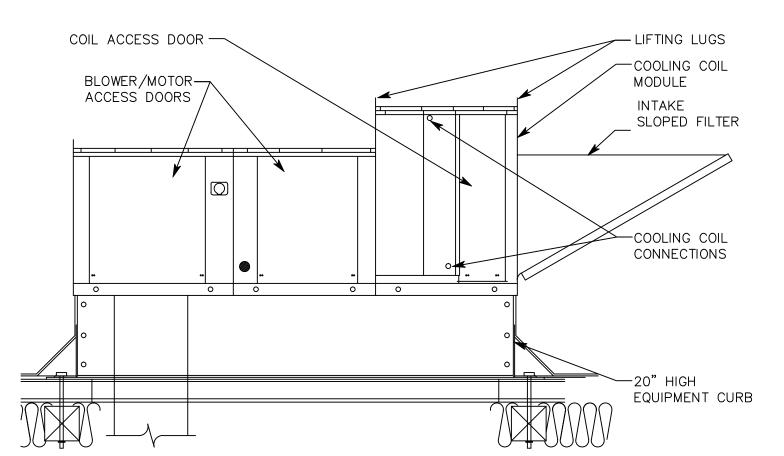
^^^^^

TO SUPPRESSION TANK NOZZLE-REMOTE PULL STATION TO SUPPRESSION NOZZLE

FIRE SUPPRESSION SYSTEM SCALE: NTS



SIDE BRACING-RECTANGULAR DUCT SCALE: NTS



MAKE-UP AIR UNIT DETAIL

NOTE:

ALL PIPING IN 3/8"

SCH. 40 BLACK PIPE

SLEEVED IN CHROME

SYSTEM ACTUATION.

ANSUL UL300 CRITERIA

ELEC. EQUIP. -- NO GAS VALVE REQUIRED

BY INSTALLER

ALL FIELD EXPOSED PIPING

EXHAUST FAN TO REMAIN ON,

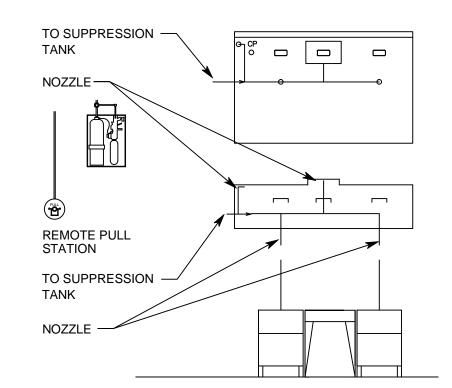
MAKEUP AIR, GAS AND ALL

ELECTRIC TO SHUT-DOWN IN

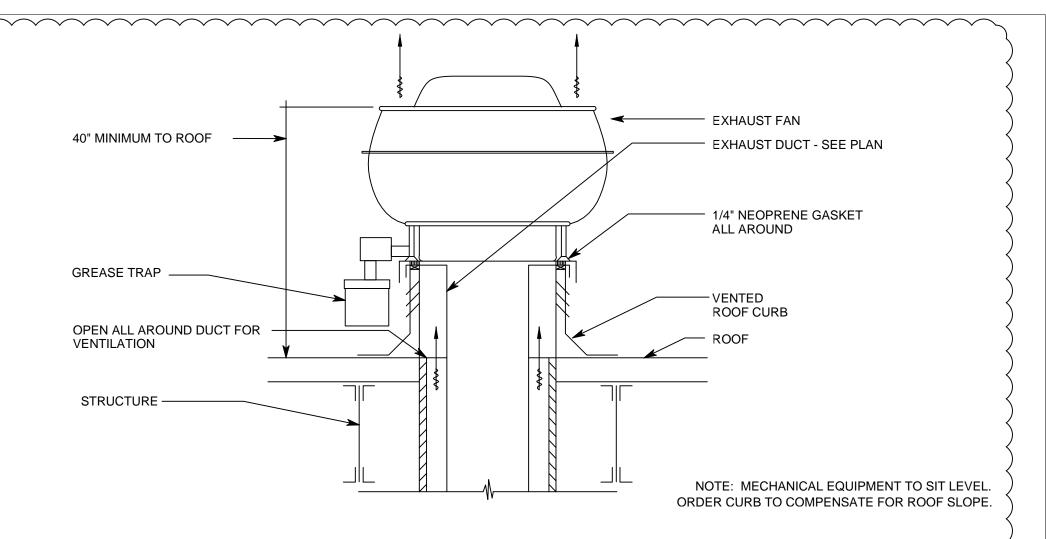
NOZZLE PLACEMENT MEETS

TEST LINKS TO BE DETERMINED

NOTE: PROVIDE SLOPED CURB, SERVICE PLATFORM, & RAILING PER MANUFACTURER'S RECOMMENDATIONS.

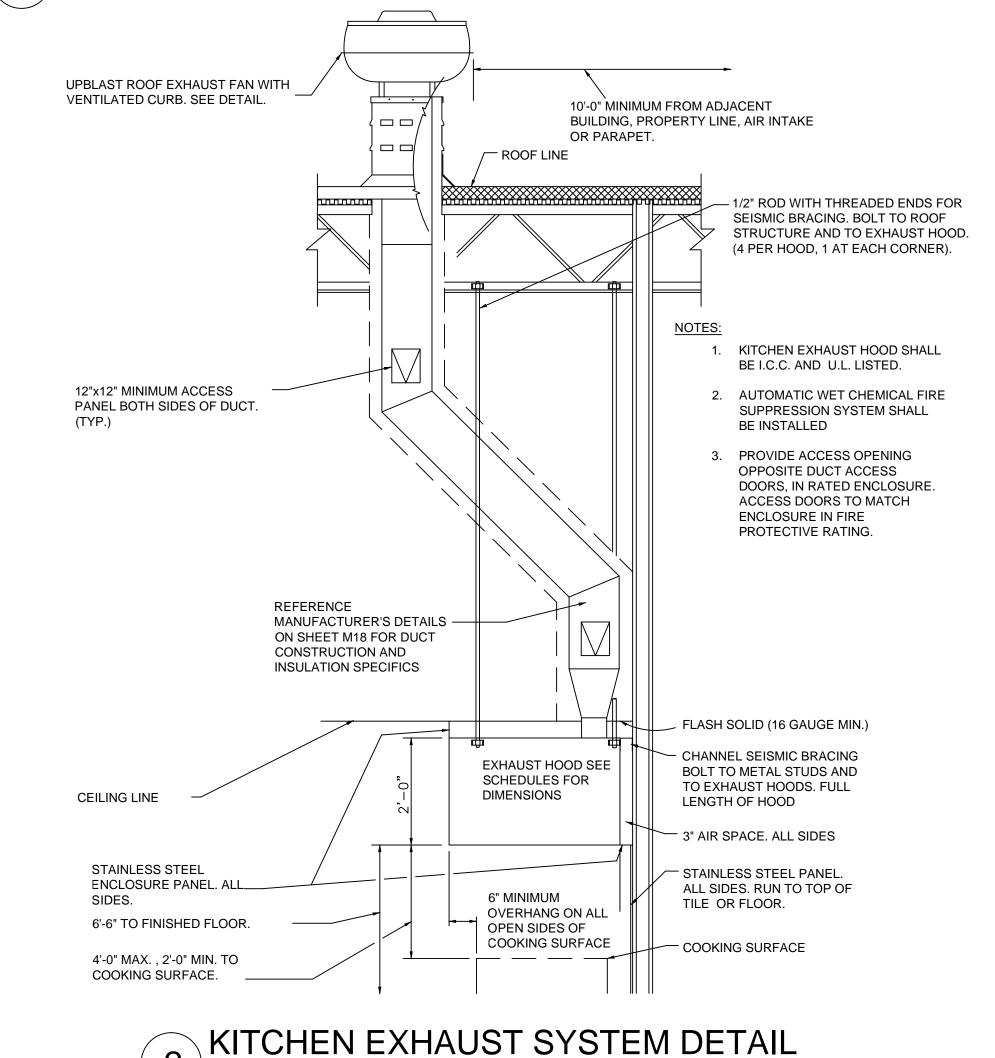


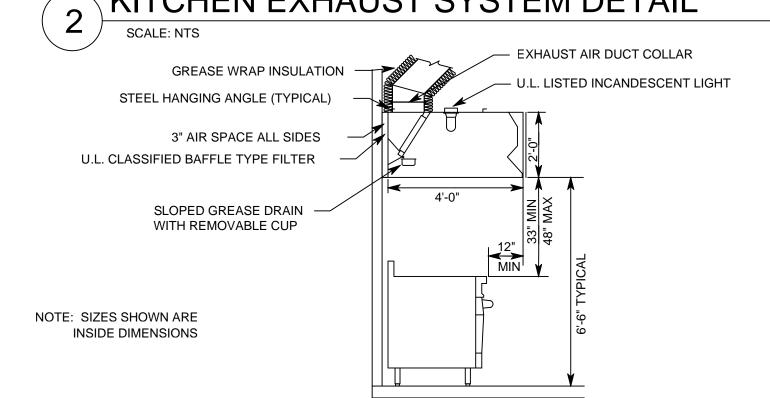




KITCHEN EXHAUST FAN DETAIL

SCALE: NTS





SECTION THROUGH TYPE 1 HOOD

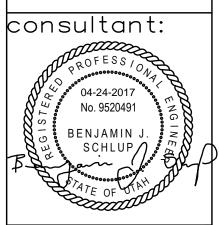
Donald L. Welch Architect



324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC REPRESENTATION & MODELS THEREOF, ARE PROPRIETARY & CAN NOT B COPIED, DUPLICATED, OR COMMERCIALLY EXPLOITED IN WHOLE OR IN PART WITHOUT THE SOLE AND EXPRESS WRITTEN PERMISSION FROM DONALD L. WELCH

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



broject:

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

South 900 East

| Salt Lake County

April 24, 2017

date

revisions

PERMIT SET-December 28, 2016 ADDENDUM #1-January 04, 2017 3√ADDENDUM #3-January 11, 2017 4 ADDENDUM #4-January 17, 2017 ADDENDUM #5-January 20, 2017 7\ADDENDUM#7-February 24, 2017 √ADDENDUM#8 – March 20, 2017 9√ADDENDUM#9 − April 11, 2017

data

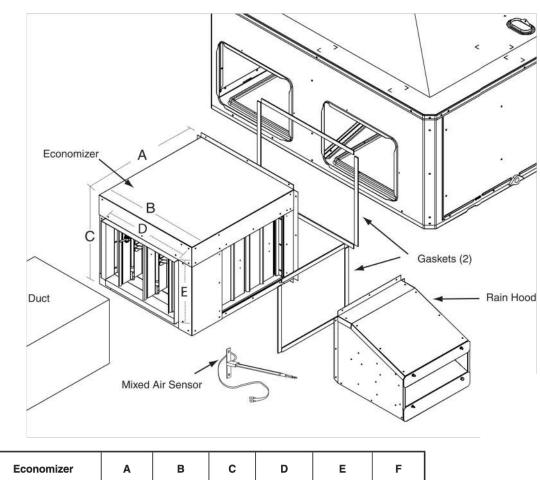
project no: drawn by: checked by:

MECHANICAL DETAILS

sheet

M12

BAYECON203,204A Horizontal Economizer and Rain Hood



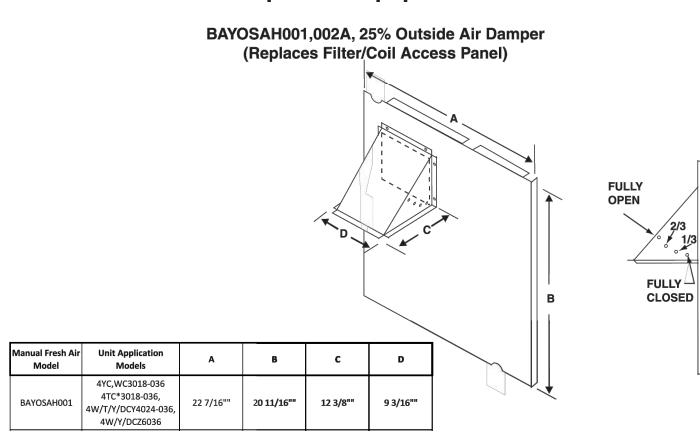
HORIZONTAL ECONOMIZER DETAIL (3 TON)

For excellent corrosion and oxidation resistance, the optional stainless steel drain pan provides a

cleanable surface that complement other IAQ solutions such as high efficiency filtration (MERV 8

20" | 16 7/8 | 15 11/16 | 11 11/16 | 15

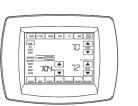
Optional Equipment



25% OUTSIDE AIR DAMPER (3 TON)

SCALE: NTS

Touchscreen Programmable Thermostat (2H/2C)



Two Heat/Two Cool programmable display. Menu-driven programming. Effortless set-up.

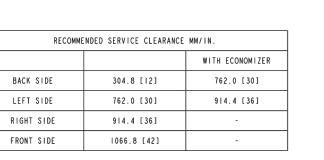
5 RTU THERMOSTAT DETAIL SCALF: NTS



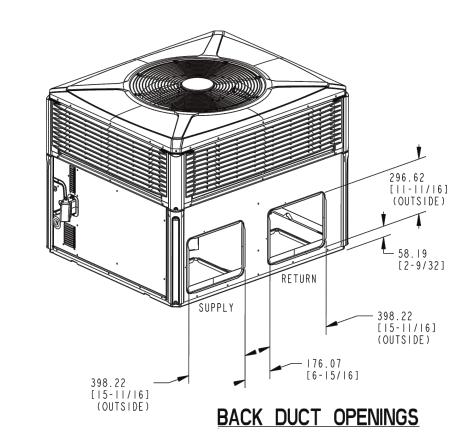


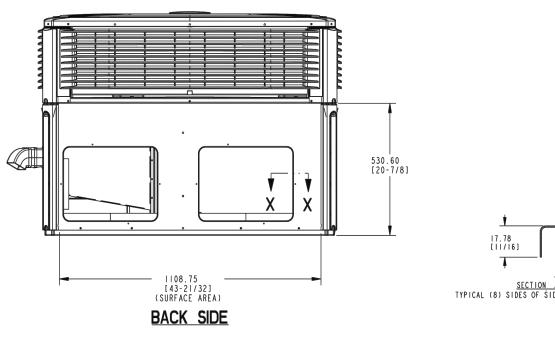
thermostat with touch screen digital Program each day separately with no need to copy multiple days. All programming can be done on one screen. Easy to read and use. Large, clear backlit digital display.



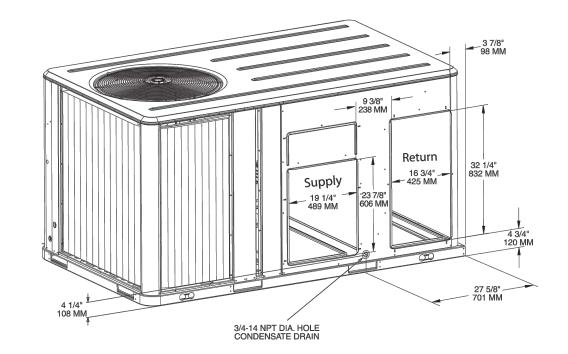


CLEARANCE TO COMBUST	IBLE MATERIAL MM/IN.
воттом	0
BACK SIDE	25.4 [1]
LEFT SIDE	152.4 [6]
RIGHT SIDE	304.8 [12]
FRONT SIDE	304.8 [12]
TOP	914.4 [36]





ROOFTOP UNIT DETAIL (3 TON)



ROOFTOP UNIT DETAIL (4 TON)

Donald L. Welch



324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, CRAPHIC 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

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.



project:

for New Brighton Recovery Campus 4905, 4911, 4915,

4925, 4931, & 4953 South 900 East | Salt Lake County,

April 24, 2017

date

revisions

PERMIT SET-December 28, 2016 ADDENDUM #1-January 04, 2017 3\\ADDENDUM #3-January 11, 2017 4\ ADDENDUM #4-January 17, 2017 5 ADDENDUM #5-January 20, 2017 ADDENDUM#7-February 24, 2017 ADDENDUM#8 — March 20, 2017 $\sqrt{9}$ ADDENDUM#9 – April 11, 2017

data

project no: drawn by:

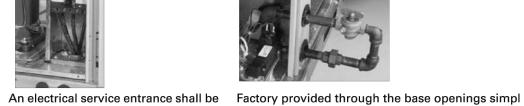
checked by:

MECHANICAL DETAILS

sheet

M13

BUILDING 'D'



both control and main power tight conduit and an external field installed disconnect switch.

Stainless Steel Drain Pan

or 13), demand control ventilation (CO₂), and hot gas reheat.

Through-the-Base Electrical Utility Access

Powered or Unpowered Convenience

connections inside the curb and through the base of the unit. Option will allow for field installation of liquid-

option is ordered.

provided allowing electrical access for wiring and piping. Because these utility openings frequently minimize the number of roof penetration integrity of roofing materials is enhanced.

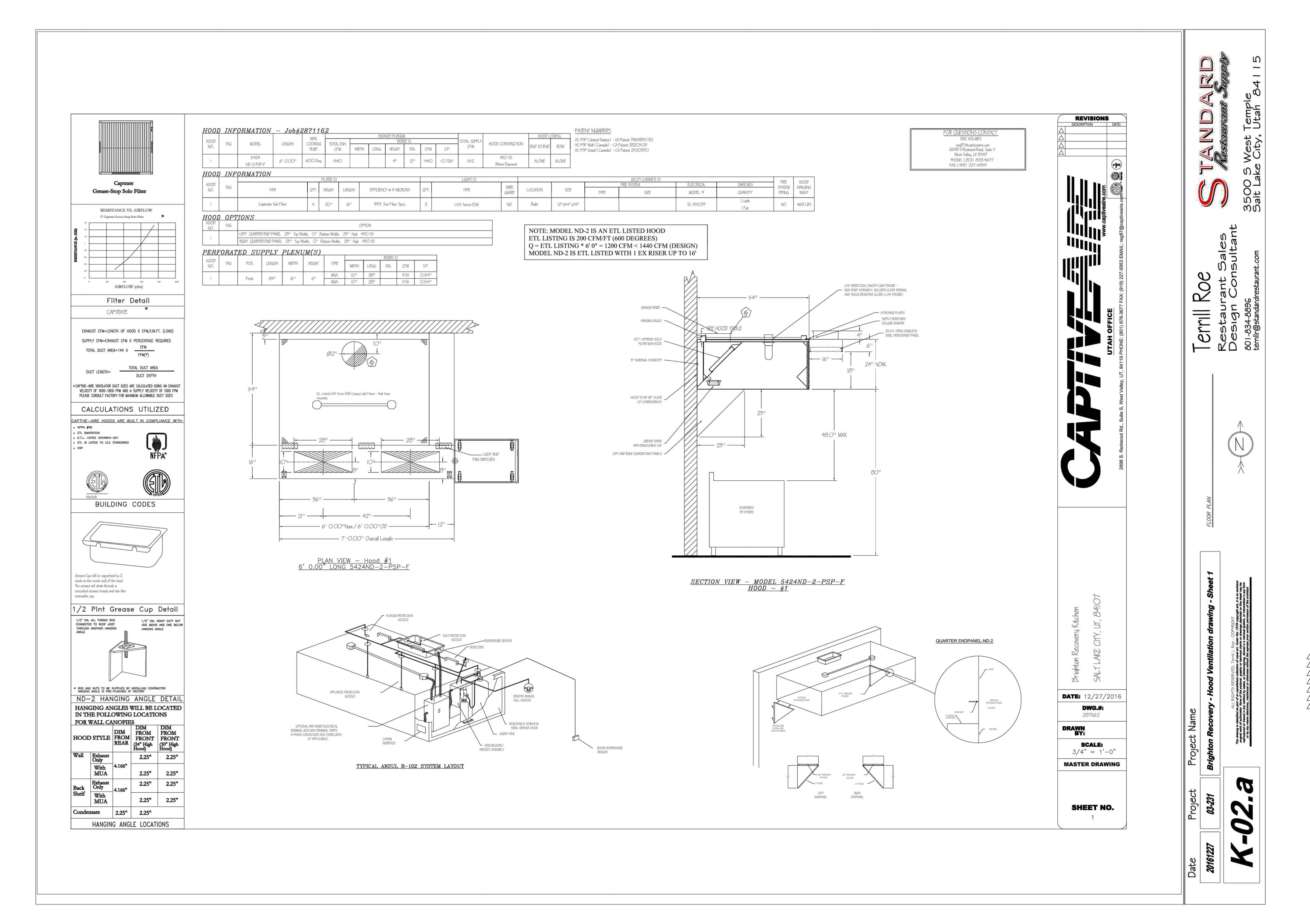
This option is a GFCI, 120V/15amp, 2 plug,

convenience outlet, either powered or unpowered. This option can only be ordered when Through the Base Electrical with either

the Disconnect Switch or Circuit Breaker

Note: Not available on 460V/575V units.

RTU ACCESSORY & INSTALLATION DETAIL



Donald L. Welch Architect Sandy Land L vale, Utah 84 7533 Midv



324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWNGS, GRAPHIC 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

THESE DRAWINGS ARE AVAILABLE FOR LIMITED REVIEW AND EVALUATION BY CLIENTS CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNEL ONLY IN ACCORDANCE WITH THIS NOTICE.

consultant: 04-24-2017 No. 9520491 BENJAMIN J

project:

for New Brighton Recovery Campus 4905, 4911, 4915, 4925, 4931, & 4953 South 900 East | Salt Lake County,

date

April 24, 2017

revisions

PERMIT SET-December 28, 2016 ADDENDUM #1-January 04, 2017 3√ADDENDUM #3-January 11, 2017 4\ADDENDUM #4-January 17, 2017 5 ADDENDUM #5-January 20, 2017 7 ADDENDUM#7-February 24, 2017 <u>8</u>XADDENDUM#8 − March 20, 2017 $\sqrt{9}$ ADDENDUM#9 – April 11, 2017

data

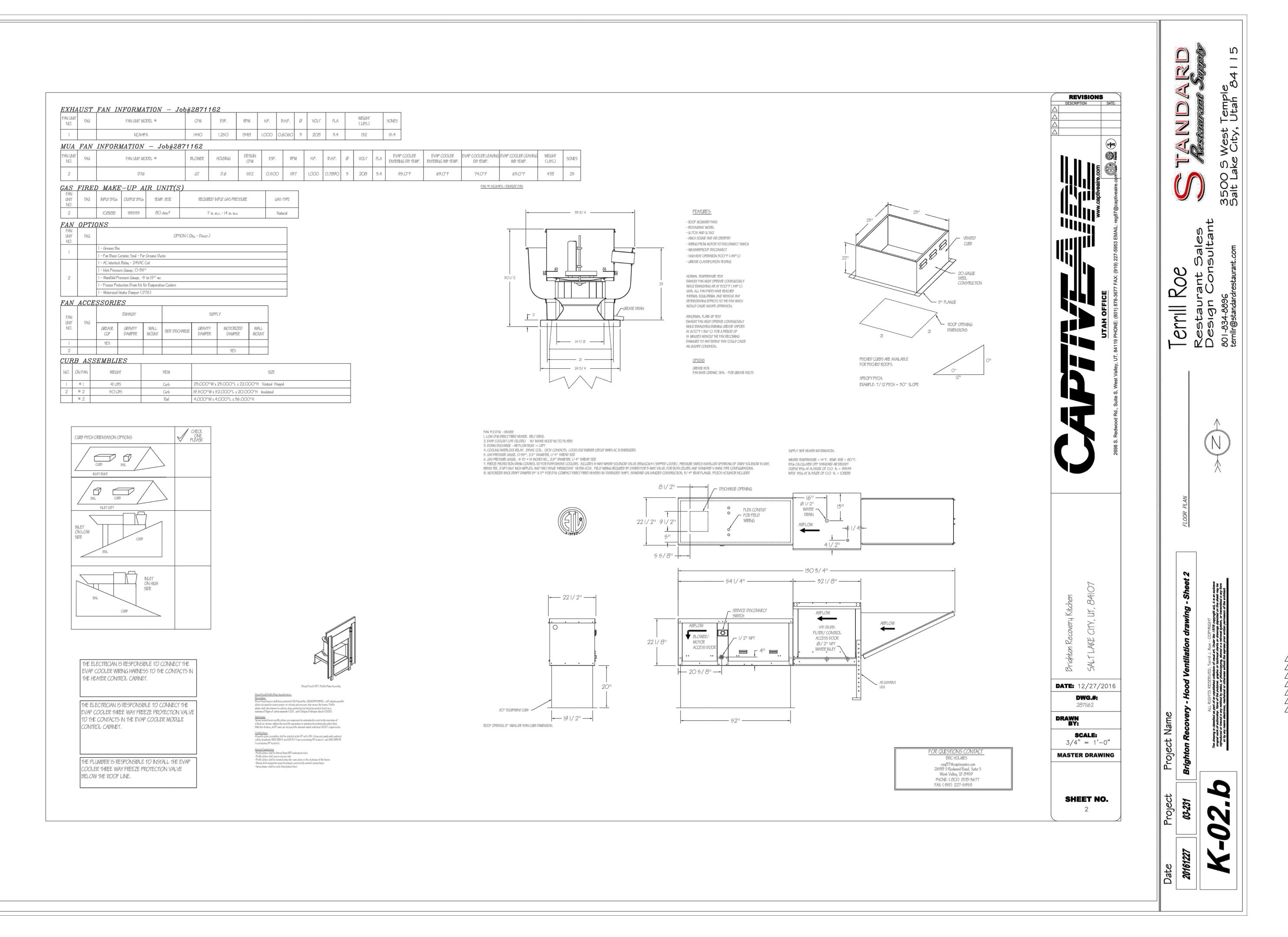
project no: drawn by: checked by:

title

MECHANICAL DETAILS

sheet

M14



Donald L. Welch

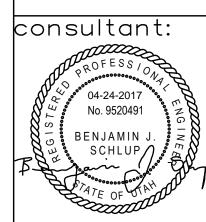
Architect
7533 Sandy Land Lane
Midvale, Utah 84047
801.548-6391
dwelch5977@msn.com



324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC 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 LIMITED REVIEW AND EVALUATION BY CLIENTS, CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNEL ONLY IN ACCORDANCE WITH THIS NOTICE.



project:

for New
Brighton
Recovery
Campus
4905, 4911, 4915,
4925, 4931, & 4953
South 900 East
Salt Lake County,

date

April 24, 2017

revisions

PERMIT SET-December 28, 2016

1 ADDENDUM #1-January 04, 2017
3 ADDENDUM #3-January 11, 2017
4 ADDENDUM #4-January 17, 2017
5 ADDENDUM #5-January 20, 2017
7 ADDENDUM#7-February 24, 2017
8 ADDENDUM#8 - March 20, 2017
9 ADDENDUM#9 - April 11, 2017

_data "

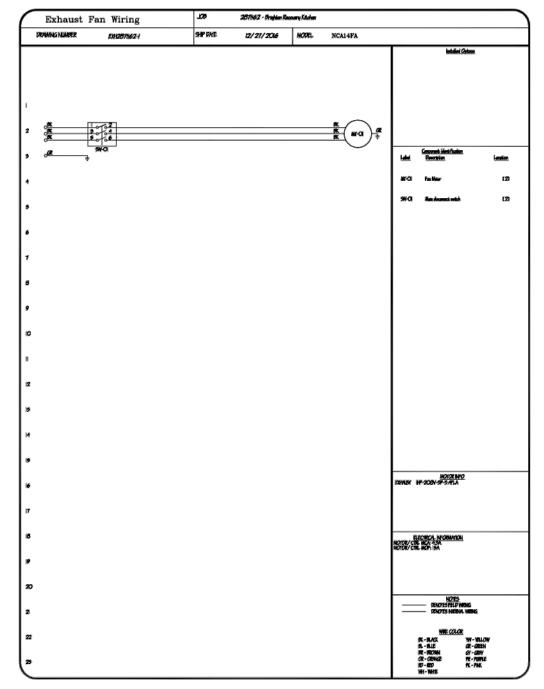
broject no: drawn by: checked by:

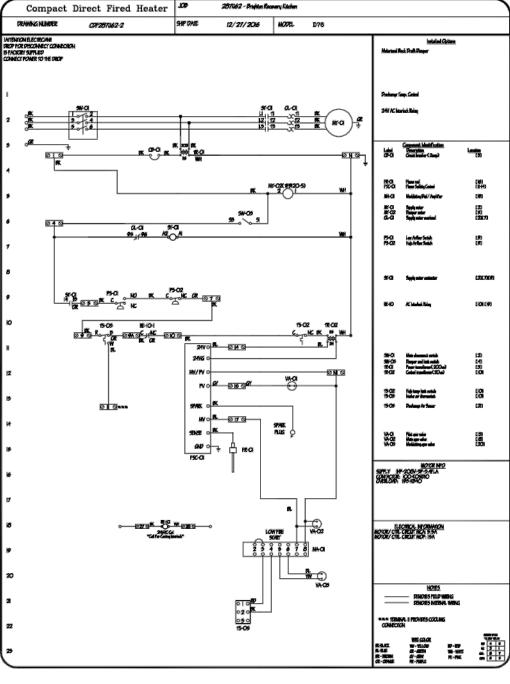
title

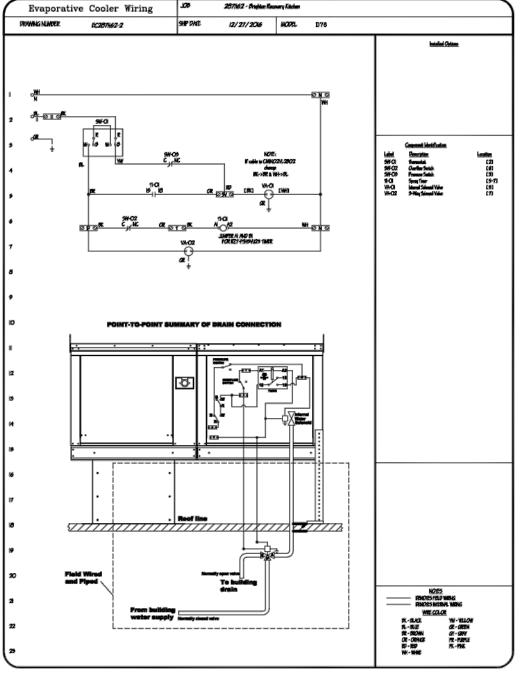
MECHANICAL DETAILS

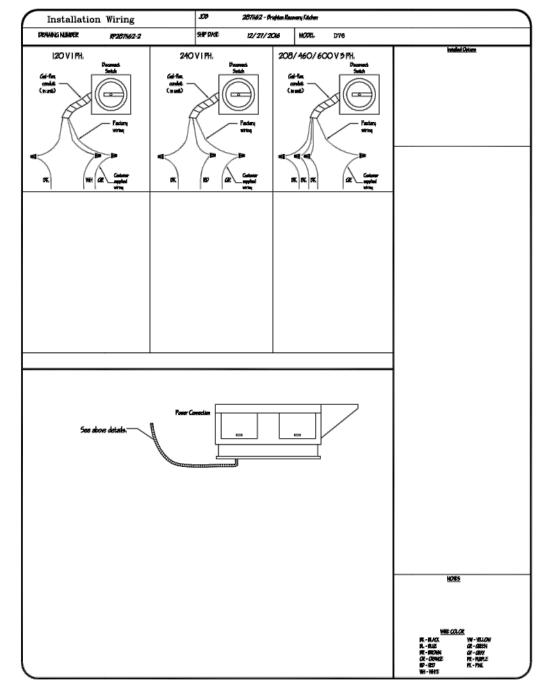
sheet

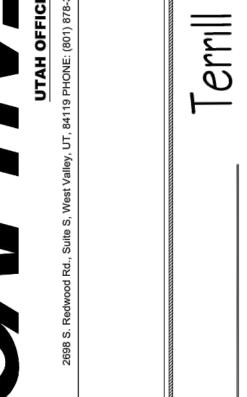
M15











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

Donald L. Welch

Architect Sandy Land L vale, Utah 840 801. 548-6391 Ich5977®msn.c

7533 Midv

324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077

801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC 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

THESE DRAWINGS ARE AVAILABLE FOR LIMITED REVIEW AND EVALUATION BY CLIENTS CONSULTANTS, CONTRACTORS, GOVERNMENT

AGENCIES, VENDORS, AND OFFICE PERSONNEL ONLY IN ACCORDANCE WITH THIS NOTICE.

consultant:

04-24-2017 No. 9520491

BENJAMIN J

project:

Salt Lake County,

April 24, 2017

date

revisions

PERMIT SET-December 28, 2016 ADDENDUM #1-January 04, 2017 3 ADDENDUM #3-January 11, 2017 ADDENDUM #4-January 17, 2017 ADDENDUM #5-January 20, 2017 ADDENDUM#7-February 24, 2017 $8\sqrt{\text{ADDENDUM}\#8}$ – March 20, 2017

data

project no: drawn by: checked by:

title

MECHANICAL DETAILS

sheet

M16

BUILDING 'D'



If ordered, CAS Service will perform a System Design Verification (SDV) once all equipment has had a complete start up per the Operation and Installation Manual. Typically, the SDV will be performed after all inspections are complete.

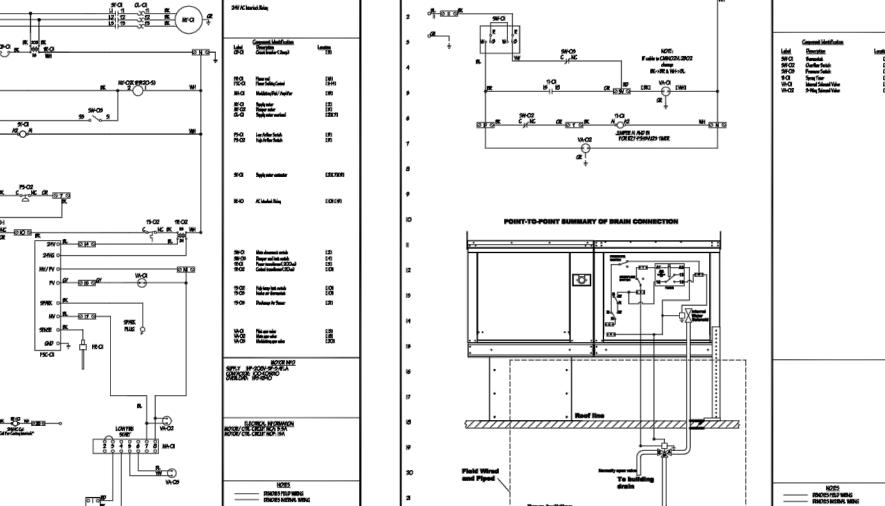
Anu field related discrepancies that are discovered during the SDV will be brought to the attention of the general contractor and corresponding trades on site. These issues

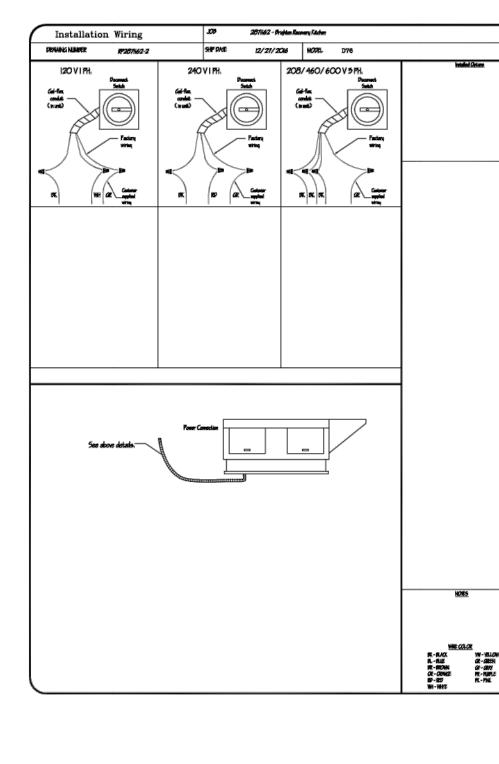
will be documented and forwarded to the appropriate sales office. If CAS Service has to

resolve a discrepancy that is a field issue, the general contractor will be notified and billed for the work. Should a return trip be required due to any field related discrepancy that cannot be resolved during the SDV, there will be additional trip charges.

During the SDV, CAS Service will address any discrepancy that is the fault of the manufacturer. Should a return trip be required, the general contractor and appropriate sales office will be notified. There will be no additional charges for manufacturer discrepancies.

req87@captiveairs.com 2698 5 Redwood Road, Suite S PHONE: (801) 878-5677 FAX: (919) 227-5955





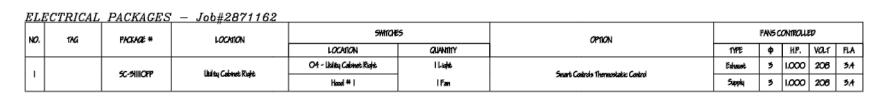
CITY, UT, 841 Z¥Z **DATE:** 12/27/2016

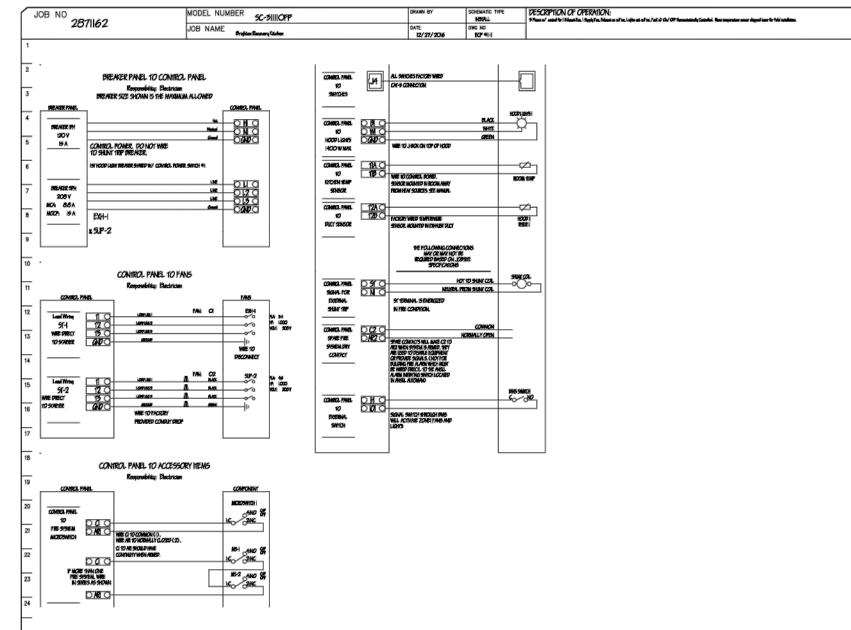
REVISIONS

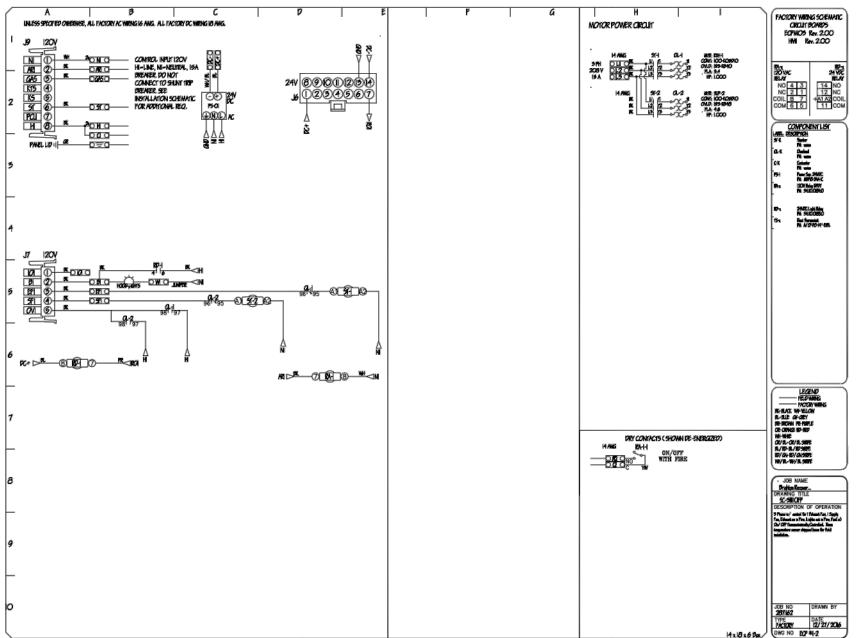
DWG.#:

SCALE: 3/4" = 1'-0" MASTER DRAWING

SHEET NO.







NOTES: . AUTOMATIC FIRE SUPPRESSION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA REQUIREMENTS.

DATE: 12/27/2016

DWG.#:

2871162

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO.

REVISIONS

errill

Campus 4905, 4911, 4915, 4925, 4931, & 4953 South 900 East | Salt Lake County, date

Donald L. Welch

Architect
Sandy Land L
vale, Utah 840
801. 548-6391
ch5977@msn.c

7533 S Midv

SPECTRUM

324 S. State St., Suite 400 Salt Lake City, UT 84111

800-678-7077 801-328-5151

fax: 801-328-5155 www.spectrum-engineers.com

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC 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

THESE DRAWINGS ARE AVAILABLE FOR LIMITED REVIEW AND EVALUATION BY CLIENTS CONSULTANTS, CONTRACTORS, GOVERNMENT

AGENCIES, VENDORS, AND OFFICE PERSONNE ONLY IN ACCORDANCE WITH THIS NOTICE.

consultant:

04-24-2017 No. 9520491

BENJAMIN J

for New

Brighton

Recovery

project:

April 24, 2017

revisions

PERMIT SET-December 28, 2016 ADDENDUM #1-January 04, 2017 3\ADDENDUM #3-January 11, 2017 4 ADDENDUM #4-January 17, 2017 5 ADDENDUM #5-January 20, 2017 ADDENDUM#7-February 24, 2017 ADDENDUM#8 - March 20, 2017

9\ADDENDUM#9 - April 11, 2017 data

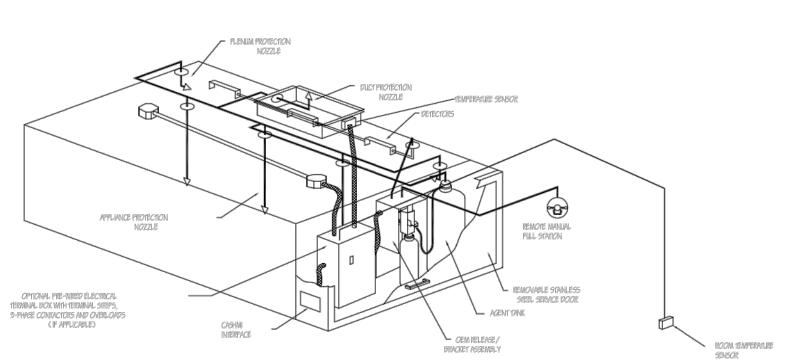
project no: drawn by: checked by:

ltitle

MECHANICAL DETAILS

sheet

BUILDING 'D'



reg57@captweaire.com 2698 5 Redwood Road, Suite S West Vallay, UT 84119 PHONE: (801) 878-5677 FAX: (919) 227-5955

TYPICAL CONTROL SYSTEM LAYOUT

 Control panel shall be listed to UL standard UL 508A. The control enclosure shall be NEMA I rated and listed for installation inside of the exhaust hood utility cabinet. The control enclosure may be constructed of stainless steel or painted steel.

Temperature probe(s) located in the exhaust duct riser(s) shall be constructed of stainless steel.

 A digital thermostat controller, listed to UL standard UL61010-1, shall be provided to activate the hood exhaust fans dynamically based on a + 10 degree adjustable offset from the room. temperature sensor. This function shall meet the requirements of IMC 507.2.1.1

• A digital thermostat controller shall provide adjustable hysteresis settings to prevent cycling of the fans after the cooking appliances have been turned off and/or the heat in the exhaust system

A digital thermostat controller shall provide an adjustable minimum fan run-time setting to prevent fan cycling.

 A digital thermostat controller shall disable the supply fan(s), activate the exhaust fan(s), activate the appliance shunt trip, and disable an electric gas valve automatically under the following. conditions (as applicable):

a. Fire condition detected on a covered hood b. Excessive temperature detected on any duct temperature sensor in the system (250 F adjustable)

A digital thermostat controller shall allow for external BMS fan control via dry contact (external control shall not override fan operation logic as required by code).

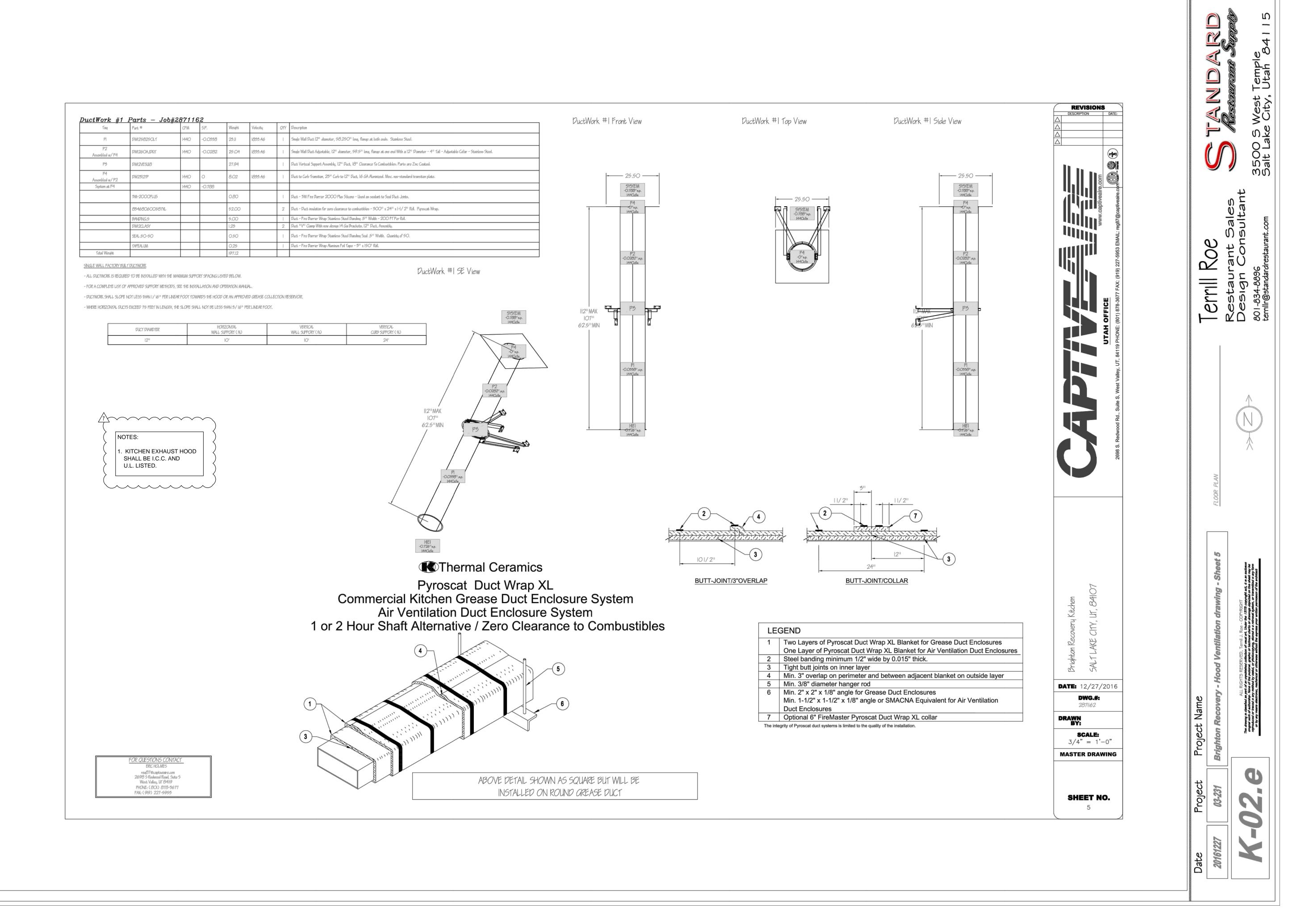
An LCD interface shall be provided with the following features:

a. On/Off push button fan & light switch activation

b. Integrated gas valve reset for electronic gas valves (no reset relay required) c. Fan starter overload trip detection with audible & visual alarm notification.

d. Temperature sensor failure/mis-wiring detection with audible & visual alarm notification

e. A single low voltage Cat-5 RJ45 wiring connection



Architect
33 Sandy Land Lane
idvale, Utah 84047
801. 548-6391



324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, CRAPHIC 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 LIMITED REVIEW AND EVALUATION BY CLIENTS CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNEL ONLY IN ACCORDANCE WITH THIS NOTICE.

CONSULTANT:

QROFESS/ON

O4-24-2017

No. 9520491

SCHLUP

ATE OF OTAL

project:

Tenant Finish
for New
Brighton
Recovery
Campus
4905, 4911, 4915,
4925, 4931, & 4953
South 900 East

date

April 24, 2017

| Salt Lake County,

revisions

PERMIT SET-December 28, 2016

ADDENDUM #1-January 04, 2017

ADDENDUM #3-January 11, 2017

ADDENDUM #4-January 17, 2017

ADDENDUM #5-January 20, 2017

ADDENDUM#7-February 24, 2017

ADDENDUM#8 - March 20, 2017

ADDENDUM#8 - April 11, 2017

data

project no: drawn by:

checked by:

MECHANICAL DETAILS

sheet

M18

SYN	MBOL LEGEND								
SYMBOL	DESCRIPTION								
PLUMBING PIPING									
W	SOIL, WASTE - ABOVE GRADE								
	SOIL, WASTE - BELOW GRADE								
GW	GREASE WASTE - ABOVE GRADE								
	GREASE WASTE - BELOW GRADE								
	VENT								
	COLD WATER								
	HOT WATER								
	HOT WATER CIRCULATE								
ST	STORM - ABOVE GRADE								
—st—— —	STORM - BELOW GRADE								
ost	OVERFLOW STORM ABOVE GRADE								
ost	OVERFLOW STORM BELOW GRADE								
VTR	VENT THRU ROOF								
(E)	EXISTING PIPE								
<i>чинини</i> .(E) <i>чинини.</i>	EXISTING PIPE TO BE REMOVED								
G	GAS								

SYI	MBOL LEGEND							
SYMBOL	DESCRIPTION							
VALVES, METERS	, AND GAUGES							
	SHUT OFF VALVE							
	GATE VALVE							
	CHECK VALVE							
\\	AUTO 2-WAY VALVE							
	AUTO 3-WAY VALVE							
	GLOBE VALVE							
	BALL VALVE							
Ψ *a								
	RELIEF VALVE							
	CHAIN OPERATED GATE VALVE							
	PRESSURE REDUCING VALVE							
	BUTTERFLY VALVE							
Ψ [S]								
	SOLENOID VALVE							
P	ANGLE VALVE							
	VENTURI							
A								
——————————————————————————————————————	BALANCING OR PLUG COCK							
	FLOW SETTER							
<u></u> ——⊗	EXPANSION VALVE (REFRIG.)							
<u></u> ₩	GAS COCK							
¥MAV	MANUAL AIR VENT							
	STRAINER							
\	GAUGE COCK							
	FLEXIBLE CONNECTION							
φ	PRESSURE GAUGE							
Ū.	THERMOMETER							
	VICTAULIC COUPLING							
	REDUCER CONCENTRIC							
	REDUCER ECCENTRIC							
	REFRIGERANT SITE GLASS							
	REFRIGERANT STRAINER							
	REFRIGERANT FILTER DRIER							
	90° ELBOW UP							
	90° ELBOW DOWN							
	90° TEE UP							
	90° TEE DOWN							
	UNION							
	CAPPED PIPE							
×	ANCHOR							
	FLOAT AND THERMOSTATIC TRAP							
PLUMBING SYMBO	DLS							
[[]] C.B.	CATCH BASIN							
○ M.H.	MANHOLE							
———— W.H.	WALL HYDRANT							
— Н.В.	HOSE BIBB							
— ф	CLEANOUT TO GRADE							
—Ф	FLOOR CLEANOUT							
	WALL CLEANOUT							
	1/2 GRATE							
	3/4 GRATE							
•	FULL GRATE							

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED AIR CONDITION(-ING,-ED) APD AIR PRESSURE DROP BALANCING DAMPER BRAKE HORSE POWER BTU BRITISH THERMAL UNIT BTU/HOUR CFH CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CLG COOLING COMP COMPONENT COND CONDENS(-ER, -ING, -ATION) OD CONTROL VALVE CW COLD WATER DIAMETER DISCH DISCHARGE DEPTH OR DEEP DRY BULB TEMPERATURE EXISTING EER ENERGY EFFICIENCY RATIO PSI EFF **EFFICIENCY** ETHYLENE GLYCOL ELEC ELECTRIC ELEV **ELEVATION ENTERING** EVAPORAT(-E, -ING, -ED, -OR) REFR EWT ENTERING WATER TEMP EXT EXTERNAL **FUTURE** FAHRENHEIT FLEXIBLE CONNECTION FIRE DAMPER **FULL LOAD AMPS** FINS PER INCH FPM FEET PER MINUTE FPS FEET PER SECOND

FSD FT

GPH

GPM

HD

HG

LBS

LWT

MAX

GALLON(S)

MERCURY

HOUR

INCH

KILOWATT

POUNDS LENGTH

LEAVING

MAXIMUM

SYMBOL

#

 \setminus SHEET /

100

1

CU-1

(P-

CFM SIZE

TYPE SIZE

—\/___

MATCH LINE

SEE XX/X-XXX

___ · ___

LATENT HEAT

HEIGHT

HEATING

HORSE POWER

HERTZ(FREQUENCY)

INSIDE DIAMETER

HOT WATER

GALLONS PER HOUR

PRESS REQD FIRE SMOKE DAMPER STM GALLONS PER MINUTE TOT TSTAT VERT LEAVING AIR TEMPERATURE | WG WATER GAUGE WATER PRESSURE DROP WTR WATER WEIGHT LOCKED ROTOR AMPS WET BULB TEMP LEAVING WATER TEMP THOUSAND BTU PER HOUR

SYMBOL LEGEND

ROOM OR SPACE NUMBER.

KEYNOTE INDICATOR.

REVISION INDICATOR.

EQUIPMENT INDICATOR.

PLUMBING FIXTURE INDICATOR.

DIFFUSER/GRILLE INDICATOR.

DIFFUSER/GRILLE INDICATOR.

BREAK, STRAIGHT

BREAK, ROUND.

MATCH LINE INDICATOR

NEW CONNECTION POINT TO

HIDDEN FEATURES LINE: HIDDEN, THIN LINE.

CONTRACT LIMIT LINE: DASHDOT, WIDE LINE.

DETAIL INDICATOR: # INDICATES DETAIL NUMBER,

SHEET INDICATES DRAWING SHEET WHERE DETAIL IS

DESCRIPTION

REFERENCE AND LINE SYMBOLS

MINIMUM CIRCUIT AMPS MANUFACTURER MINIMUM NOT APPLICABLE NORMALLY CLOSED NOISE CRITERIA NOT IN CONTRACT NORMALLY OPEN NET POSITIVE SUCTION HEAD NOT TO SCALE OUTSIDE AIR OUTSIDE DIAMETER OUNCE PRESSURE DROP PROPYLENE GLYCOL PARTS PER MILLION PRESSURE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PSI ABSOLUTE

PSI GAUGE THERMAL RESISTANCE RETURN AIR RECIRCULATE REFRIGERATION REQUIRED REVOLUTIONS PER MINUTE SUPPLY AIR SHADING COEFFICIENT SOFT COLD WATER SAFETY FACTOR SENSIBLE HEAT SEA LEVEL STATIC PRESSURE SPECIFICATION SQUARE STANDARD STEAM **TEMPERATURE** TEMP. DROP OR DIFF. TOTAL THERMOSTAT VACUUM VARIABLE AIR VOLUME VELOCITY VENT, VENTILATION VERTICAL VOLUME WATER COLUMN

PLUMBING SCOPE OF WORK

DEMOLITION NOTES:

PLUMBING CONTRACTOR TO UTILIZE SELECTIVE DEMOLITION APPROACH.

REMAIN UNCHANGED.

EXISTING GAS METERS TO REMAIN. EXISTING GAS PIPING SEGMENTS MAY BE REUSED IF SIZING AND ROUTING ARE SIMILAR TO NEW PIPING LAYOUT. PUBLIC UTILITY COMPANY TO VERIFY NATURAL GAS CAPACITIES AND ASSOCIATED PRESSURES.

NEW CONSTRUCTION NOTES:

NEW WATER ENTRIES WILL BE INSTALLED AS INDICATED ON PLANS.

ALL DOMESTIC COLD WATER AND FIRE WATER PIPING SEGMENTS EXPOSED TO ENVIRONMENT ARE TO BE INSULATED AND HEAT TRACED FOR FREEZE

ALL EXISTING STORM DRAIN TERMINATIONS ARE TO CONNECT TO CIVIL DRAINAGE SYSTEM.

ALL GREASE WASTE PIPING DESIGNATED TO SERVE FUTURE WARMING KITCHEN WILL TIE INTO NEW GREASE INTERCEPTOR AS SHOWN ON CIVIL DRAWINGS. A VENT LINE FOR THE GREASE INTERCEPTOR WILL BE PROVIDED AND WILL TERMINATE THROUGH ROOF OF BUILDING 'D'.

THE NEW SYSTEM COMPONENTS WILL ALLOW FOR FUTURE OFFICE AND TEMPORARY RESIDENT SPACES AS INDICATED ON PLANS.

DOMESTIC WATER, WASTE, AND GREASE WASTE LINES (AS APPLICABLE) WILL BE PROVIDED TO EACH BUILDING AS INDICATED.

HEATING OF DOMESTIC WATER WILL BE PROVIDED BY INDIVIDUAL BUILDING

FIRE PROTECTION LINES TO BE ROUTED ON WARM SIDE OF BUILDING INSULATION. INSTALL FIRE PROTECTION SYSTEM PER NOTES INDICATED ON P02 OF THIS

IN THE EVENT THAT ROUTING MAY PROVE DIFFICULT DUE TO EXISTING CONDITIONS A DRY-PIPE SYSTEM SHOULD BE EVALUATED. LOCATE AIR COMPRESSOR IN ASSOCIATED FIRE ENTRY ROOM AS REQUIRED.

DIVISION 26 CONTRACTOR TO PROVIDE POWER TO ASSOCIATED SYSTEM FLOW

MANY AREAS INCLUDE PLUMBING EQUIPMENT AND ACCESSORIES LOCATED ABOVE HARDLID CEILINGS OR WITHIN INACCESSIBLE SPACES. FIELD TRACING OF DEMOLITION IS REQUIRED.

ALL EXISTING PLUMBING FIXTURES AND ACCESSORIES ARE TO BE REMOVED TO ALLOW FOR NEW TENANT SPACES. ALL PLUMBING EQUIPMENT, FIXTURES, PIPING, AND ACCESSORIES THAT ARE CURRENTLY ABANDONED IN PLACE ARE TO BE REMOVED.

ALL STORM WATER / ROOF DRAINAGE PIPING WITHIN THE BUILDING IS TO

CAP/REPLACE ALL WASTE AND VENT LINES BACK TO NEAREST MAIN TO ALLOW FOR FUTURE CONNECTIONS.

WATER HEATERS.

DOMESTIC COLD WATER SUBMETERS TO BE INSTALLED IN EACH BUILDING'S WATER ENTRY ROOM. VERIFY NEED WITH OWNER PRIOR TO INSTALLATION.

FIRE PROTECTION SCOPE OF WORL

NEW CONSTRUCTION NOTES:

DRAWING SET.

NEW FIRE ENTRIES TO BE INSTALLED AS INDICATED ON PLANS.

ALL BREEZEWAY SOFFITS TO INCORPORATE DRY PIPE FIRE PROTECTION SYSTEM FED FROM FIRE ENTRY ROOM PIPING AS REQUIRED.

SEE SHEET P02 (SPEC SECTION 221316) AND SHEET P13 FOR FURTHER SYSTEM REQUIREMENTS & DETAILS.

Architect

7533 Mid

Donald L. Welch

324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com

THE DESIGNS SHOWN AND DESCRIBED HEREIN INCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC 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

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:

Brighton

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

| Salt Lake County,

date

April 24, 2017 revisions

PERMIT SET-December 28, 2016 ADDENDUM #1-January 04, 2017 ADDENDUM #3-January 11, 2017 4\ADDENDUM #4-January 17, 2017

5\ADDENDUM #5-January 20, 2017

ADDENDUM#7-February 24, 2017

ADDENDUM#8 - March 20, 2017 $\sqrt{9}$ ADDENDUM#9 – April 11, 2017

data project no: drawn by:

checked by:

title PLUMBING GENERAL NOTES & LEGEND sheet

PLUMBING SPECIFICATIONS

220100 - BASIC PIPING MATERIALS & METHODS

- 1. CORE CUT ALL PIPE PENETRATION OF EXISTING MASONRY OR CONCRETE WALLS AND FLOORS. SLEEVE ALL PENETRATIONS THROUGH NEW WALLS AND FLOORS. SEAL ALL PENETRATIONS WATER TIGHT WITH SILICONE SEALANT. USE FIRE RATED SEALANT (3M "FIRE BARRIER" OR EQUAL) FOR 1 HOUR OR 2 HOUR PENETRATIONS.
- CAULK AROUND ALL PIPING THAT PASSES THROUGH FIRE-RATED PARTITIONS WITH A NON-HARDENING CAULKING SIMILAR TO 3M "FIRE BARRIER".
- 3. SEAL ALL PIPING THROUGH WALLS AIR TIGHT.

220533 - HEAT TRACING CABLE

- 1. PROVIDE RAYCHEM ELECTRIC SELF REGULATING HEATING CABLE WITH ALL NECESSARY ACCESSORIES TO MAINTAIN THE TEMPERATURE IN THE TRACED PIPE SYSTEM AT 45°F.
- FOR DOMESTIC HOT WATER USE, THE CABLE SHALL BE DESIGNED, MANUFACTURED AND U.L. LISTED FOR DOMESTIC HOT WATER TEMPERATURE MAINTENANCE.
- CABLE SHALL CONSIST OF TWO (2) 16-AWG NICKEL-COATED COPPER BUS WIRES EMBEDDED IN A RADIATION-CROSSLINKED CONDUCTIVE POLYMER CORE. IT SHALL BE COVERED BY A RADIATION-CROSSLINKED, POLYOLEFIN, DIELECTRIC JACKET SURROUNDED BY A POLYMER-COATED ALUMINUM WRAP, AND ENCLOSED IN A TINNED COPPER BRAID OF 14 AWG EQUIVALENT WIRE SIZE. THE BRAID SHALL BE COVERED WITH A (NOMINAL) 40-MIL POLYOLEFIN OUTER JACKET, COLOR CODED FOR EASY IDENTIFICATION.

220548 - VIBRATION ISOLATION AND SEISMIC

- 1. ALL PLUMBING EQUIPMENT AND PIPING MUST BE VIBRATION ISOLATED AND SEISMICALLY BRACED FOR THE SITE SPECIFIC SEISMIC DESIGN CATEGORY AND SEISMIC USE GROUP, IN ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF THE BUILDING CODES AND ASHRAE. PROVIDE SEISMIC PRODUCTS BY AMBER-BOOTH OR MASON INDUSTRIES.
- IN GENERAL, PROVIDE SPRING MOUNTS TO ATTENUATE LOW FREQUENCY SOUND AND VIBRATION. PROVIDE NEOPRENE PADS TO ATTENUATE HIGH FREQUENCY SOUND
- 3. VIBRATION: SEISMIC BRACING/MOUNTING CAN BE COMBINED WITH VIBRATION ISOLATION AS APPLICABLE
- CONTRACTOR MANUFACTURED SEISMIC BRACING/RESTRAINT METHODS ARE NOT ACCEPTABLE.
- PROVIDE A SIGNED AND STAMPED LETTER FROM A PROFESSIONAL ENGINEER CERTIFYING THAT THE SUPPLIED PRODUCTS ARE CORRECT FOR THE APPLICATION AND THAT THE INSTALLATION IS IN COMPLIANCE WITH ALL APPLICABLE CODES.

220719 - INSULATION

- 1. PIPE INSULATION: SNAP-ON GLASS FIBER TYPE WITH VAPOR JACKET. SEAL ALL ENDS AND JOINTS TO PROVIDE A COMPLETELY SEALED SYSTEM. ALTERNATIVELY. FOR INTERIOR WATER PIPING. USE FLEXIBLE UNICELLULAR ASTM 534 TYPE 1 INSULATION. USE 1" THICKNESS FOR PIPE UP TO 2"Ø AND 1-1/2" FOR PIPE OVER 2"Ø
- PROVIDE ADA COMPLIANT FIXTURES WITH SNAP ON ADA ARTICLE 4.19 22FF COMPLIANT WHITE INSULATION. TRUEBRO LAV GUARD, BASIN GUARD OR LAV SHIELD.
- 3. THERMAL AND SOUND INSULATION AND COVERING WHICH ARE INSTALLED AND EXPOSED SPACES AND COVERING PIPE AND TUBING SHALL BE TESTED IN ACCORDANCE WITH ASTM E 84 AND HAVE A FLAME SPREAD OF 0-25 AND A SMOKE INDEX OF 0-450.
- 4. THERMAL AND SOUND INSULATION AND COVERING OVER PIPE AND TUBING WHICH ARE INSTALLED IN CONCEALED PLENUM SPACES SHALL BE TESTED IN ACCORDANCE WITH ASTM E 84 AND HAVE A FLAME SPREAD OF 0-25 AND A SMOKE INDEX OF 0-50.

221116 - WATER DISTRIBUTION PIPING

1. UNDERGROUND WATER PIPING:

2" AND SMALLER: ASTM 88 TYPE "K" COPPER WITH A MINIMUM NUMBER OF SOLDERED JOINTS. USE 95-5 TIN ANTIMONY COPPER SOLDER.

2-1/2" AND LARGER: PVC AWWA 900 CLASS 100 WITH SOLVENT CEMENTED JOINTS, OR PB PLASTIC PIPE ASTM D3309 SDR 11 WITH HEAT FUSION JOINTS.

- 2. NO TYPE "M" OR "DWV" COPPER IS TO BE USED IN THIS PROJECT.
- 3. ALL ABOVE GROUND HOT AND COLD WATER PIPING: ASTM B 88 TYPE "L" COPPER, WITH WROUGHT COPPER FITTINGS AND SOLDERED WITH 95-5 TIN-ANTIMONY SOLDER.
- INSTALL PIPE HANGERS WITH THE FOLLOWING MINIMUM ROD SIZES AND MAXIMUM SPACING. UPON COMPLETION OF HANGER INSTALLATION, ALL ADJUSTMENTS HAVING THE POSSIBILITY OF TURNING SHALL BE LOCKED SECURELY IN PLACE BY DOUBLE NUTTING AT THE HANGER ROD ATTACHMENT TO THE STRUCTURE, AND AT THE PIPE HANGER.

NOM. PIPE	MAX	MIN. ROD
SIZE-INCHES	SPAN-FT.	SIZE-INCHE
1	7	3/8
1-1/2	9	3/8
2	10	3/8
3	12	1/2
4	14	5/8
6	17	3/4

- 5. ALL PIPE HANGERS AND EQUIPMENT SUPPORTS SHALL BE LOCATED A MINIMUM DISTANCE OF 2" FROM ANY REFRIGERANT PIPE.
- 6. ALL PLUMBING FIXTURES CONNECTED TO A POTABLE WATER SYSTEM WITH HOSE CONNECTIONS ON THE OUTLET SIDE AND OWNER FURNISHED EQUIPMENT WITH DIRECT CONNECTIONS, SHALL BE PROVIDED WITH BACKFLOW PREVENTION.

PLUMBING SPECIFICATIONS

221316 - DRAINAGE AND VENT SYSTEMS

1. UNDERGROUND BUILDING DRAIN PIPE AND FITTINGS: A. NO HUB ABS OR PVC PLASTIC PIPE AND FITTINGS PER ASTM D2661 WITH ASTM D2235 SOLVENT

> B. ASTM A74 SERVICE WEIGHT. HUB AND SPIGOT CAST IRON SOIL PIPE, OR ASTM A888 (OR CISPI 301) HUBLESS CAST IRON SOIL PIPE WITH ASTM C564 HEAVY DUTY SHIELDED STAINLESS STEEL

- A. NO ASTM D2729 PIPE SHALL USED UNDERGROUND.
- ABOVE GROUND SANITARY DRAINAGE AND VENT PIPING, IN ALL AREAS EXCEPT AIR PLENUMS AND EXCEPT IN A FIRE RATED BUILDING, SHALL BE ABS TYPE DWV PLASTIC PIPE AND FITTINGS PER ASTM D2661 WITH ASTM D2255 SOLVENT, OR PVC PLASTIC PIPE AND FITTINGS PER ASTM D2665 WITH ASTM D2564 SOLVENT, OR SERVICE WEIGHT, NO HUB CAST IRON COUPLED PIPE AND FITTINGS WITH COMPRESSION TYPE NEOPRENE GASKETS AND STAINLESS STEEL BANDS.
- FORCE SEWER MAINS UP TO 4" SHALL BE TYPE L HARD COPPER TUBE WITH WROUGHT COPPER PRESSURE FITTINGS AND SOLDERED JOINTS, OR DUCTILE IRON PIPE AND FITTINGS WITH MECHANICAL JOINTS.
- ALL SANITARY DRAINAGE AND VENT PIPING INSIDE AIR PLENUMS AND ANYWHERE IN A FIRE RATED BUILDING SHALL BE NO HUB SERVICE WEIGHT CAST IRON COUPLED PIPE AND FITTINGS WITH COMPRESSION TYPE NEOPRENE GASKETS AND STAINLESS STEEL BANDS. ASTM B306 COPPER PIPE MAY BE USED WITH SOLDERED JOINTS FOR PIPE 3" AND SMALLER.
- ABOVE GROUND ROOF DRAIN LINES, EXCEPT IN AIR PLENUMS AND ANYWHERE IN A FIRE RATED BUILDING, SHALL BE ABS TYPE DWV PLASTIC PIPE AND FITTINGS PER ASTM D2661 WITH ASTM D2255 SOLVENT, OR PV C PLASTIC PIPE PER ASTM D2665 WITH ASTM D2564 SOLVENT.
- ALL ROOF DRAIN LINES INSIDE AIR PLENUMS, OR ANYWHERE IN A FIRE RATED BUILDING, SHALL BE SERVICE WEIGHT CAST IRON PIPE TO CISPI STANDARD 301.
- 7. ALL ROOF DRAIN LINES SHALL BE FULLY INSULATED.
- 8. OVERFLOW ROOF DRAINS SHALL DAYLIGHT 18" ABOVE THE SURROUNDING HORIZONTAL AREA.
- INSTALL SANITARY DRAIN LINES 2-1/2" AND LESS WITH A SLOPE OF 2%. INSTALL SANITARY DRAIN LINES 3"-6" WITH A SLOPE OF NOT LESS THAN
- 10. SLOPE ROOF DRAIN LINES DOWN IN DIRECTION OF FLOW, 1/8" PER FOOT (1%).
- 11. CLEANOUTS
- A. FINISHED WALL CLEANOUTS: SMITH FIGURE 4472 COMPLETE WITH CAST BRONZE TAPER THREADED PLUG, STAINLESS STEEL COVER AND SCREW.
- B. FLOOR CLEANOUTS (UNFINISHED AREAS): SMITH FIGURE 4223 DUCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED CAST IRON TOP. TAPER THREADED BRONZE PLUG AND
- SPIGOT OUTLET. C. FINISHED FLOOR CLEANOUTS (CONCRETE FLOORS): SMITH FIGURE 4023 DUCO CAST IRON CLEANOUT WITH ADJUSTABLE SCORIATED SECURED NICKEL BRONZE TOP, TAPER THREADED CAST BRONZE
- PLUG AND SPIGOT OUTLET. D. FINISHED FLOOR CLEANOUTS (CARPETED FLOORS): SMITH FIGURE 4023-Y SAME AS CONCRETE FLOORS WITH CARPET MARKER. FINISHED FLOOR CLEANOUTS (TILE FLOORS): SMITH FIGURE 4163 DUCO CAST IRON CLEANOUT WITH SQUARE ADJUSTABLE SECURED
- PLUG AND SPIGOT OUTLET. F. EXTERIOR CLEANOUTS (CLEANOUT TO GRADE): SMITH FIGURE 4253 DUCO CAST IRON CLEANOUT AND DOUBLE FLANGED HOUSING WITH HEAVY DUTY SECURED SCORIATED CAST IRON COVER WITH LIFTING DEVICE, TAPER THREADED BRONZE PLUG AND SPIGOT OUTLET.

NICKEL BRONZE TOP WITH 1/8" RECESS, TAPER THREADED BRONZE

12. FLOOR DRAINS:

FD-1 FLOOR DRAIN: SMITH FIGURE 2010-BP CAST IRON BODY AND FLASHING COLLAR WITH PROTECTIVE CAP AND SQUARE NICKEL BRONZE ADJUSTABLE STRAINER HEAD WITH SECURED SQUARE HOLE GRATE, AND TRAP PRIMER CONNECTION.

FD-2 MECHANICAL ROOM DRAIN: SMITH FIGURE 2110-NB MEDIUM DUTY FLOOR DRAIN. CAST IRON BODY AND FLASHING COLLAR WITH NICKEL BRONZE BAR GRATE.

13. ROOF DRAINS (AS REQUIRED IF REPLACEMENT IS NECESSARY)

RD-1 ROOF DRAIN: SMITH FIGURE 1010-ERC CAST IRON BODY WITH COMBINED FLASHING CLAMP AND CAST IRON GRAVEL STOP, CAST IRON DOME, EXTENSION, SUMP RECEIVER AND UNDERDECK CLAMP.

ORD-1 OVERFLOW ROOF DRAIN: SMITH FIGURE 1080-ERC CAST IRON BODY WITH FLASHING CLAMP, GRAVEL STOP, CAST IRON DOME, 2" HIGH CAST IRON WATER COLLAR, EXTENSION, SUMP RECEIVER AND UNDERDECK CLAMP.

DSN-1 DOWNSPOUT NOZZLE:SMITH FIGURE 1770 DOWNSPOUT NOZZLE. CAST BRONZE BODY AND FLANGE. PROVIDE BRONZE BOLTS TO SECURE NOZZLE TO WALL. INSTALL 12" ABOVE FOUNDATION UNLESS NOTED OTHERWISE.

14. FIRE/WATER ENTRIES

FIRE ENTRY: WATTS 757DCDA OSY OR EQUAL. DOUBLE CHECK DETECTOR ASSEMBLY. TWO INDEPENDENTLY OPERATING TRI-LINK CHECK VALVES, TWO SHUTOFF VALVES, AND FOUR TEST COCKS. STAINLESS STEEL HOUSING AND SLEEVE. MAXIMUM WORKING PRESSURE: 175PSI. PROVIDE FLOW SWITCH WITH LINE VOLTAGE POWER.

DOMESTIC WATER ENTRY: WATTS LF909 OR EQUAL. LEAD FREE REDUCED PRESSURE ZONE ASSEMBLY. HORIZONTAL OR VERTICAL (UP OR DOWN) INSTALLATION, TEMPERATURE RANGE: 33°F – 140°F, MAXIMUM WORKING PRESSURE: 175PSI, TEMPERATURE RANGE: 33°F – 210°F, MAXIMUM WORKING PRESSURE: 175PSI (FOR MAIN SERVICE WATER ENTRY APPLICATIONS)

DOMESTIC WATER DOUBLE CHECK: WATTS LF719 OR EQUAL. LEAD FREE DOUBLE CHECK VALVE ASSEMBLY. SEPARATE ACCESS, TOP ENTRY CHECK VALVE, REVERSIBLE SEAT DISC RUBBER, VALVE TEST COCKS, TEMPERATURE RANGE: 33°F – 180°F, MAXIMUM WORKING PRESSURE: 175PSI (FOR APPLICATIONS DOWNSTREAM OF WATER ENTRY PRESSURE REDUCING VALVE)

PLUMBING SPECIFICATIONS

221613 - NATURAL GAS SYSTEMS

- 1. NATURAL GAS PIPING ABOVE GROUND OR INSIDE BUILDINGS: SCHEDULE 40 BLACK STEEL WITH WELDED OR MALLEABLE IRON
- UNDERGROUND GAS PIPE: EITHER POLYETHYLENE ASTM D2513, OR SCHEDULE 40 BLACK STEEL PRIMED AND WRAPPED IN ACCORDANCE WITH LOCAL GAS COMPANY REQUIREMENTS.
- 3. GAS MAINS INSIDE BUILDINGS ARE SIZED FOR 2 PSIG PRESSURE. LOCATE PRESSURE REGULATORS AS SHOWN ON THE DRAWINGS TO REDUCE PRESSURE FROM 2 PSIG TO 7" W.C. PROVIDE FULL SIZE VENT LINES FROM GAS PRESSURE REGULATORS AND EXTEND TO OUTSIDE OR THROUGH ROOF. FLASH PENETRATIONS AND MAKE WATER TIGHT. INSTALL VENTLESS GAS REGULATOR AS ALTERNATE.
- 4. PROVIDE GAS SHUT OFF VALVE AT EACH PIECE OF GAS UTILIZING **EQUIPMENT**
- 5. THE EQUIPMENT INSTALLER SHALL APPLY AND SIGN A CERTIFICATION LABEL TO EACH GAS-FIRED APPLIANCE, STATING THE APPLIANCE HAS BEEN ADJUSTED OR MODIFIED PER MANUFACTURER'S REQUIREMENTS FOR OPERATION AT THE PROJECT ALTITUDE AND WITH THE BTU-CONTENT OF THE AVAILABLE FUEL-GAS.

223000 - WATER HEATERS

- INSTALL UNITS PLUMB AND LEVEL AND FIRMLY ANCHORED PER SEISMIC REQUIREMENTS. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES. ORIENT SO CONTROLS AND DEVICES NEEDING SERVICING ARE ACCESSIBLE.
- CONNECT HOT AND COLD WATER PIPING TO UNITS WITH SHUT-OFF VALVES AND UNIONS. CONNECT HOT WATER CIRCULATING PIPING TO UNIT WITH SHUT-OFF VALVE, CHECK VALVE AND UNION.
- USE DIELECTRIC FITTINGS AND UNIONS WHERE PIPING CONNECTIONS ARE DISSIMILAR METALS.
- INSTALL VACUUM RELIEF VALVE IN COLD WATER INLET PIPING. EXTEND RELIEF VALVE DISCHARGE TO CLOSEST FLOOR DRAIN. INSTALL DRAIN AS INDIRECT WASTE TO SPILL INTO OPEN DRAIN OR OVER FLOOR
- PROVIDE AND INSTALL EXPANSION TANK AS SCHEDULED IN DRAWINGS.
- EXPANSION TANK: DIAPHRAGM TYPE, PRE- PRESSURIZED STEEL TANK WITH RELIEF VALVE SETTING @ 120 PSI MAXIMUM PRESSURE.
- CONNECT GAS SUPPLY PIPING TO BURNER WITH DRIP LEG, TEE, GAS COCK, AND UNION, MINIMUM SIZE SAME AS INLET CONNECTION. INSTALL GAS PRESSURE REGULATORS WHERE INDICATED.
- CONNECT OIL PIPING TO OIL BURNER WITH SHUT-OFF VALVE AND UNION IN SUPPLY AND CHECK VALVE AND UNION IN RETURN PIPING.
- 8. ELECTRICAL CONNECTIONS: POWER WIRING AND DISCONNECT SWITCHES ARE SPECIFIED IN DIVISION 16. CONNECT UNIT COMPONENTS TO GROUND IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- 9. VENT CONNECTIONS: CONNECT GAS FIRED WATER HEATER DRAFT HOOD TO VENT SYSTEM. UNLESS OTHERWISE INDICATED, PROVIDE VENT SAME SIZE AS OUTLET ON HEATER. COMPLY WITH GAS UTILITY REQUIREMENTS.
- 10. CONNECT OIL-FIRED WATER HEATER VENT AND DRAFT REGULATOR TO VENT SYSTEM. PROVIDE VENT AND DRAFT REGULATOR SAME SIZE AS OUTLET ON HEATER.
- 11. PROVIDE SEALED COMBUSTION SYSTEMS WITH CONNECTIONS FOR OUTSIDE COMBUSTION AIR.
- 12. PROVIDE CONCENTRIC VENT TERMINATION KIT FOR ROOF OR WALL
- 13. PROVIDE PVC COMBUSTION AIR AND VENT PIPING FROM WATER HEATER TO TERMINATION KIT.

APPLICATIONS.

14. PROVIDE CONDENSATE DRAIN FROM WATER HEATER OR VENT AS REQUIRED.

PLUMBING SPECIFICATIONS

224213 - PLUMBING FIXTURES

- 1. PROVIDE AND INSTALL CARRIERS AS REQUIRED FOR FLOOR OR WALL MOUNTED PLUMBING FIXTURES. INSTALL ALL FIXTURES WITH ACCESSORIES AS REQUIRED TO PROVIDE A COMPLETE, WORKABLE INSTALLATION.
- 2. PLUMBING FIXTURES SHALL INCLUDE COMPRESSION STOPS ABOVE FLOOR IN SUPPLIES TO ALL FIXTURES AND A MINIMUM 17 GAUGE P-TRAP.
- 3. ALL LAVATORIES AND HAND SINKS WILL HAVE A COMBINATION FAUCET OR PREMIXING FAUCET CAPABLE OF SUPPLYING WARM WATER FOR A MINIMUM OF 10 SECONDS.
- 4. ALL JANITORIAL SINK FAUCETS MUST BE PROVIDED WITH AN APPROVED BACKFLOW PREVENTION DEVICE.
- 5. FLOOR DRAINS AND FLOOR SINKS ARE SHOWN IN THE APPROXIMATE LOCATION. COORDINATE FINAL LOCATION WITH EQUIPMENT AND DRAINAGE REQUIREMENTS. PROVIDE BLOCKOUTS AS NECESSARY.

PENETRATION FIRESTOPPING NOTES

- PROVIDE SPECIFIC FIRESTOPPING DETAILS FROM A SPECIFIC PLUMBING PIPE OR DUCT PENETRATION FOR EACH FIRE RATED ASSEMBLY.
- PROVIDE PENETRATION FIRESTOPPING THAT IS PRODUCED AND INSTALLED TO RESIST SPREAD OF FIRE ACCORDING TO REQUIREMENTS INDICATED, RESIST PASSAGE OF SMOKE AND OTHER GASES, AND MAINTAIN ORIGINAL FIRE-RESISTANCE RATING OF
- 3. PENETRATION FIRESTOPPING SYSTEMS SHALL BE COMPATIBLE WITH ONE ANOTHER, WITH THE SUBSTRATES FORMING OPENINGS, AND WITH PENETRATING ITEMS IF ANY.
- PENETRATIONS IN FIRE-RESISTANCE-RATED WALLS: PROVIDE PENETRATION FIRESTOPPING WITH RATINGS DETERMINED PER ASTM E 814 OR UL 1479, BASED ON TESTING AT A POSITIVE PRESSURE
- 6. DO NOT INSTALL PENETRATION FIRESTOPPING WHEN AMBIENT OR SUBSTRATE TEMPERATURES ARE OUTSIDE LIMITS PERMITTED BY PENETRATION FIRESTOPPING MANUFACTURERS OR WHEN SUBSTRATES ARE WET BECAUSE OF RAIN, FROST, CONDENSATION, OR
- 7. COORDINATE CONSTRUCTION OF OPENINGS AND PENETRATING ITEMS TO ENSURE THAT PENETRATION FIRESTOPPING IS INSTALLED
- 8. COORDINATE SIZING OF SLEEVES, OPENINGS, CORE-DRILLED HOLES,
- 9. INSTALL PENETRATION FIRESTOPPING TO COMPLY WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND
- 10. INSTALL FORMING MATERIALS AND OTHER ACCESSORIES OF TYPES REQUIRED TO SUPPORT FILL MATERIALS DURING THEIR APPLICATION AND IN THE POSITION NEEDED TO PRODUCE CROSS-SECTIONAL SHAPES AND DEPTHS REQUIRED TO ACHIEVE FIRE RATINGS INDICATED.
- 11. IDENTIFY PENETRATION FIRESTOPPING WITH PREPRINTED METAL OR PLASTIC LABELS. ATTACH LABELS PERMANENTLY TO SURFACES ADJACENT TO AND WITHIN 6 INCHES OF FIRESTOPPING EDGE SO LABELS WILL BE VISIBLE TO ANYONE SEEKING TO REMOVE PENETRATING ITEMS OR FIRESTOPPING.

FIRE SPRINKLER SYSTEM REQUIREMENTS (NFPA-13)

THESE DRAWINGS AND SPECIFICATIONS ARE FOR THE FIRE PROTECTION CONTRACTOR TO ENGINEER, DESIGN, BID AND INSTALL A COMPLETE AND OPERATIONAL FIRE PROTECTION SYSTEM, PER THE DESIGN INTENT AS SHOWN.

- CONTRACTOR TO PROVIDE A HYDRAULICALLY-DESIGNED, FUSIBLE LINK, FULLY SPRINKLED, WET PIPE FIRE PROTECTION SYSTEM FOR BUILDING SPACES NOT SUBJECT TO FREEZING.
- 2. CONTRACTOR TO PROVIDE A HYDRAULICALLY-DESIGNED, FUSIBLE LINK, FULLY SPRINKLED. DRY PIPE OR GLYCOL FIRE PROTECTION SYSTEM BUILDING SPACES SUBJECT TO FREEZING, INCLUDING PARKING GARAGES, ENTRANCE CANOPIES AND
- ALL DESIGN SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF THE BUILDING CODE, FIRE CODE, MECHANICAL CODE, PLUMBING CODE, AND ANY OTHER LOCAL, STATE, OR FEDERAL REGULATIONS AND CODES, AS WELL AS INSTRUCTIONS FROM THE AUTHORITY HAVING JURISDICTION.
- SUBMIT FIRE PROTECTION LAYOUT DRAWINGS AND CALCULATIONS TO THE ENGINEER FOR GENERAL APPROVAL OF SYSTEM LAYOUT, LOCATION OF COMPONENTS ETC. THEN SUBMIT TO THE FIRE MARSHALL HAVING JURISDICTION AND OBTAIN APPROVAL. CONTRACTOR TO PAY ALL PERMIT/APPROVAL/PLANCHECK FEES AND COSTS INVOLVED.
- 5. SYSTEM DESIGN SHALL BE BASED ON THE FOLLOWING CRITERIA:
- LIGHT HAZARD IN ALL AREAS; EXCEPT ORDINARY HAZARD GROUP 1 IN THE KITCHEN AREA.
- DESIGN THE SYSTEM USING THE AREA/DENSITY METHOD IN NFPA 13. FLOW TEST DATA TO BE DETERMINED BY THE FIRE PROTECTION
- CONTRACTOR. 6. PROVIDE COVERAGE FOR A SINGLE FIRE ZONE.

OWNER AND THE FIRE MARSHALL.

- 7. PROVIDE INSPECTOR'S TEST CONNECTION IN A LOCATION APPROVED BY THE
- 8. DUE CONSIDERATION SHALL BE GIVEN TO THE LOCATION OF BUILDING ELEMENTS. (I.E. BEAMS, COLUMNS, LIGHT FIXTURES, ETC.) IN DETERMINING SPRINKLER HEAD SPACING AND ARRANGEMENT. THE STRUCTURE SHOWN ON ALL DETAILS MAY OR MAY NOT PERTAIN TO A PORTION OR ANY PORTION OF THE BUILDING. COORDINATE MOUNTING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND
- 9. ALL EQUIPMENT, PIPING, COMPONENT, AND ACCESSORY SIZES, CAPACITIES AND TYPES SHOWN IN THESE DRAWINGS AND SPECIFICATIONS SHALL BE ADHERED TO.
- 10. AUXILIARY DRAINS SHALL BE INCLUDED AS NECESSARY TO DRAIN ALL SPRINKLER SYSTEM DISTRIBUTION LINES AND BRANCHES DOWNSTREAM OF THE RISER CHECK
- 11. AUTOMATIC AIR RELEASE VALVES SHALL BE FURNISHED AS NECESSARY TO VENT THE DRY PIPE SPRINKLER SYSTEM. THE VALVES SHALL BE MADE SEPARABLE FROM THE SYSTEM WITH APPROPRIATELY SIZED GATE VALVES.
- 12. THE CONTRACTOR SHALL THOROUGHLY TEST, DISINFECT, AND FLUSH THE PIPING SYSTEM ACCORDING TO APPLICABLE CODES AND STANDARDS.
- 13. ANY DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONNECTIONS REQUIRED FOR INSTALLATION. 14. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL BUILDING INFORMATION

SUCH AS ATTIC SPACES, CONSTRUCTION MATERIALS, SPECIAL USE SPACES,

15. SPRINKLER HEADS:

BUILDING SECTIONS, ETC.

- SPRINKLER HEADS FOR LIGHT HAZARD CLASSIFICATION SHALL BE QUICK RESPONSE TYPE PER NFPA 13. ALL OTHER CLASSIFICATIONS SHALL BE STANDARD RESPONSE TYPE.
- GENERAL: ALL HEADS SHALL BE FACTORY MUTUAL APPROVED FOR APPLICATION AND INSTALLATION. WET OR DRY TYPE AS REQUIRED. CEILING ESCUTCHEONS MAY BE PLASTIC OR METAL 2 PIECE TYPE
- EXPOSED HEADS IN CEILING: SEMI-RECESSED TYPE WITH SATIN CHROME-PLATED ESCUTCHEON CUP, WHEREVER HEADS ARE ADJACENT TO SURFACE-MOUNTED LIGHTS OR OBSTRUCTIONS, USE EXTENDED PENDENT HEAD WITH SHALLOW FRICTION ADJUSTABLE ESCUTCHEON WITH SATIN CHROME-PLATED FINISH. COORDINATE EXTENDED PENDENT HEAD USE WITH ARCHITECT PRIOR TO PURCHASE OR INSTALLATION.

- EXPOSED HEADS IN SOLID CEILINGS: SEMI-RECESSED TYPE WITH SHALLOW FRICTION ADJUSTABLE ESCUTCHEON WITH SATIN CHROME-PLATED FINISH.
- EXPOSED HEADS IN FINISHED METAL CEILING AREAS: SEMI-RECESSED TYPE WITH SATIN BRASS-PLATED ESCUTCHEON CUP, OF COLOR MATCH METAL CEILING. CONCEALED HEADS AND THOSE AREAS WITHOUT CEILINGS: UPRIGHT OR
- PENDANT TYPE WITH ROUGH BRASS FINISH. SPRINKLER HEADS IN ALL AREAS SHALL OPEN AT 160°-165°F, EXCEPT THAT HEADS IN BAKERY, DELI, ELECTRICAL TRANSFORMER ROOMS, AND
- HEADS IN FREEZER/COOLER BOXES SHALL BE DRY PENDANT TYPE, AND SHALL BE OF COLOR TO MATCH CEILING.
- PENDANT HEADS ON DRY SPRINKLER SYSTEM SHALL BE DRY PENDANT TYPE AND SHALL BE OF COLOR TO MATCH CEILING. LEGEND:

PHONE/EMS ROOMS SHALL BE RATED AT 212°F.

- ———— PENDENT ————— ⊕ DRY PENDENT
- 17. RECORD DESIGN DRAWINGS SHOWING ALL EQUIPMENT, COMPONENTS, PIPING AND CONTROLS SHALL BE PREPARED TO THE SAME SCALE AS THESE DRAWINGS. DRAWINGS SHALL BE ON MYLAR AND BE DRAWN IN AUTOCAD. DISK COPIES SHALL BE PROVIDED TO THE OWNER AND ARCHITECT/ENGINEER.
- 19. CONTRACTOR SHALL LOCATE P.I.V., RISERS, INCOMING SERVICE, ZONE VALVES

ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF THE IBC, UBC, ASHRAE,

18. DESIGN FOR SEISMIC DESIGN CATEGORY AND SEISMIC USE GROUP, IN

- AND FEED AND BRANCH MAINS IN LOCATIONS SHOWN ON THESE DRAWINGS. 20. THE WORKING DRAWINGS ARE DIAGRAMMATIC. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR FIRE PROTECTION ITEMS SHALL BE CHECKED AND COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, STRUCTURAL, AND ELECTRICAL
- 21. THE FIRE PROTECTION CONTRACTOR DOES NOT HAVE PRIORITY ON PIPE ROUTING. ALL PIPING TO BE FULLY COORDINATED WITH ALL HVAC, PLUMBING, ELECTRICAL, AND ARCHITECTURAL REQUIREMENTS AND TRADES. RESOLVE POTENTIAL CONFLICTS BEFORE PROCEEDING WITH INSTALLATION. IN ALL CASES, GRADED PIPE RUNS TAKE FIRST PRIORITY ON ROUTING. GENERALLY, DUCTWORK TAKES
- 22. UPON COMPLETION OF THE WORK, REMOVE ALL SURPLUS MATERIALS AND RUBBISH. MAKE ALL REQUIRED PATCHING AND REPAIRS OF OTHER TRADES' WORK DAMAGED BY THIS CONTRACTOR, AND LEAVE THE PREMISES IN A CLEAN, ORDERLY
- 23. THE CONTRACTOR SHALL GUARANTEE THE ENTIRE FIRE PROTECTION SYSTEM FOR

A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.

- 24. ALL ALLOWABLE SPRINKLER SYSTEM COMPONENTS SHALL BE PRIMED AND PAINTED RED, SYSTEM COMPONENTS WHICH MAY BE INACCESSIBLE AFTER INSTALLATION SHALL BE PAINTED BEFORE INSTALLATION.
- 25. IN AREAS WITH LAY-IN CEILINGS. LOCATE HEADS IN THE CENTER OF THE CEILING TILE. PROVIDE ALL NECESSARY ELBOWS IN BRANCH LINES, TO ACHIEVE THIS.

1. CONTRACTOR SHALL REVIEW CONSTRUCTION DOCUMENTS AND FIRESTOPPING MANUFACTURER FOR EACH MECHANICAL (HVAC) AND

CONSTRUCTION PENETRATED.

DIFFERENTIAL OF 0.01-INCH WG

- 5. PENETRATION FIRESTOPPING PRODUCTS SHALL BEAR UL, ETL OR FM GLOBAL CLASSIFICATION MARKING OF QUALIFIED TESTING AND INSPECTING AGENCY.
- OTHER CAUSES.
- ACCORDING TO SPECIFIED REQUIREMENTS.
- OR CUT OPENINGS TO ACCOMMODATE PENETRATION FIRESTOPPING.
- PUBLISHED DRAWINGS FOR PRODUCTS AND APPLICATIONS INDICATED.

broject:

Welch

Donald

Architect

324 S. State St., Suite 400

Salt Lake City, UT 84111

800-678-7077

801-328-5151

fax: 801-328-5155

www.spectrum-engineers.com

THE DESIGNS SHOWN AND DESCRIBED HEREIN

THEREOF, ARE PROPRIETARY & CAN NOT B

COPIED, DUPLICATED, OR COMMERCIALLY

EXPLOITED IN WHOLE OR IN PART WITHOU

NCLUDING ALL TECHNICAL DRAWINGS

THE SOLE AND EXPRESS WRITTEN

PERMISSION FROM DONALD L. WELCH

THESE DRAWINGS ARE AVAILABLE FOR

LIMITED REVIEW AND EVALUATION BY CLIENTS

CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNE

ONLY IN ACCORDANCE WITH THIS NOTICE.

04-24-2017

No. 9520491

BENJAMIN J

SCHLUP/

konsultant:

GRAPHIC REPRESENTATION & MODELS

for New Brighton

4905, 4911, 4915 4925, 4931, & 4953

South 900 East

| Salt_Lake_County

date

April 24, 2017

revisions

PERMIT SET-December 28, 2016 √ADDENDUM #1-January 04, 2017 √ADDENDUM #3-January 11, 2017 ADDENDUM #4-January 17, 2017 ADDENDUM #5-January 20, 2017

Z√ADDENDUM#7—February 24, 2017

∖ADDENDUM#8 — March 20, 2017

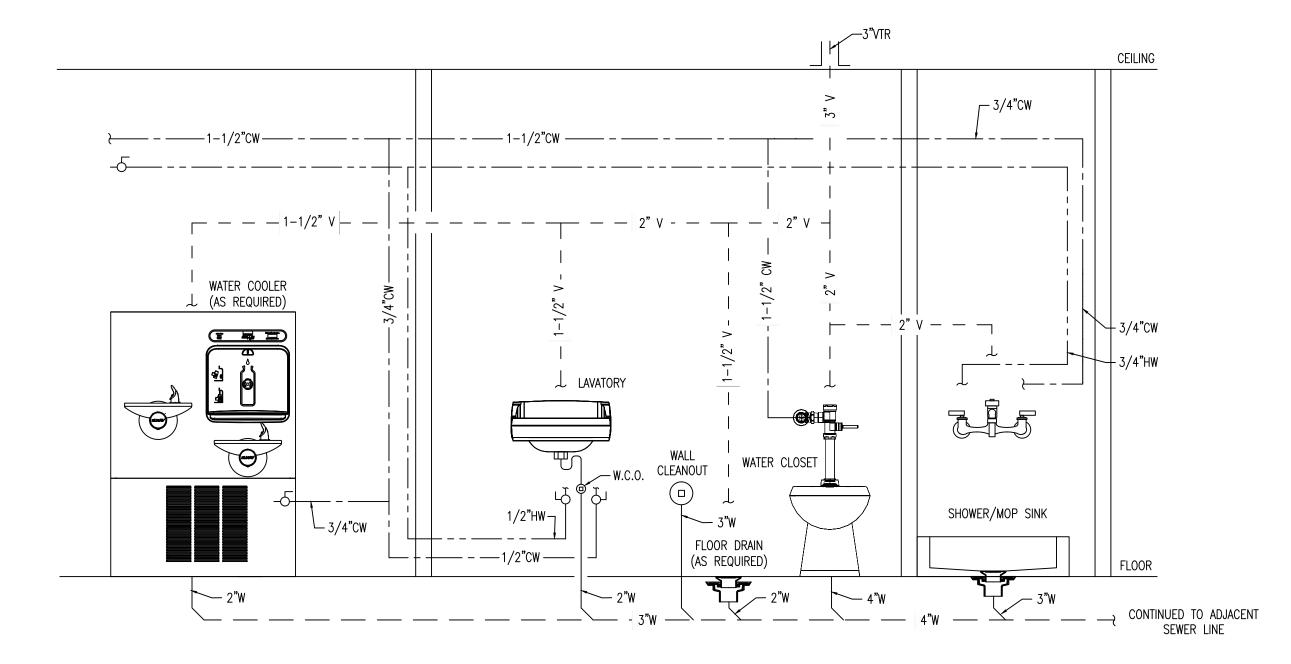
ADDENDUM#9 – April 11, 2017

þroject no: checked by:

sheet

data

PLUMBING EQUIPMENT SPECIFICATIONS



4	PLUMBING	SCHEMATIC
	SCALE: NTS	

0.0.50		MANUFACTURER	COLD	HOT	`		RDINATE MOUNTING HEIGHTS WITH ARCH. PLANS)
SYMBOL	FIXTURE	AND MODEL NO.	WATER	WATER	WASTE 2"	VENT 1-1/2"	ACCESSORIES AND REMARKS
FD-1 FD-2	FLOOR DRAINS	SEE P02 (SPEC SECTION 221316)	-	-	OR 4"	OR 3"	REFERENCE SHEET P02. FLOOR DRAINS IN FINISHED SPACES TO BE <u>FD-1</u> (2"). ALL WATER ENTRY DRAINS TO BE <u>FD-2</u> (4"). INSTALL PROVENT TRAP GUARD OR EQUAL IN EACH DRAIN TYPE.
	MESTIC WATER ENTRIES E CHECK & BACKFLOW DEVICES	SEE P02 (SPEC SECTION 221316)	SEE REMARKS	-	-	-	REFERENCE SHEET P02. MAKE/MODELS FOR FIRE/WATER ENTRY BACKFLOW PREVENTER AND DOUBLE CHECK DETECTOR ASSEMBLIES INDICATED. 4" FIRE ENTRY LINE WHERE INDICATED. BUILDINGS C & D TO INCORPORATE A 1-1/2" WATER SERVICE. BUILDINGS A, B, E, F TO HAVE 2" DOMESTIC WATER SERVICE. LOCATE FIRE CONTROL PANEL AT EACH FIRE ENTRY. ELECTRICAL: PROVIDE LINE VOLTAGE POWER (115V CIRCUITS) TO FIRE ENTRY FLOW SWITCH & AIR COMPRESSOR
SH-1	SHOWER (ADA) (FLOOR MOUNTED)	SEE ARCHITECTURAL	1/2"	1/2"	2"	1-1/2"	REFERENCE ARCHITECTURAL SHEET A6.1A. SPECIFICATIONS FOR SHOWER INSERT, DRAIN, SHOWERHEAD, VALVES, & ASSOCIATED ACCESSORIES ARE INDICATED.
GWH-1	GAS WATER HEATER (FLOOR MOUNTED)	BRADFORD WHITE EF-100T-300E-3N(A)	1-1/2"	1-1/2"	-	-	COMMERCIAL ULTRA HIGH EFFICIENCY GAS WATER HEATER. 92% THERMAL EFFICIENCY. DIRECT SPARK IGNITION. 300 MBH INPUT, 3/4" GAS CONNECTION, 100 GALLON CAPACITY, 335 GPH RECOVERY @ 100°F, DISCHARGE T&P VALVE INTO MOP SINK OR FLOOR DRAIN. PROVIDE 4.4 GALLON EXPANSION TANK (AMTROL EX-30 OR EQUAL). PROVIDE SEISMIC WATER HEATER STRAPS. DIMENSIONS: 77-5/8" H X 28-1/4" DIA 900 LB SHIPPING WEIGHT. PROVIDE 4" (PVC, CPVC, OR ABS) VERTICAL VENTING. TERMINATE THROUGH ROOF WITH CONCENTRIC VENT KIT PER MANUFACTURER'S RECOMMENDATIONS. ELECTRICAL: 115V AC REQUIRED.
GWH-2	GAS WATER HEATER (FLOOR MOUNTED)	BRADFORD WHITE EF-100T-250E-3N(A)	1-1/2"	1-1/2"	-	-	COMMERCIAL ULTRA HIGH EFFICIENCY GAS WATER HEATER. 97% THERMAL EFFICIENCY. DIRECT SPARK IGNITION. 250 MBH INPUT, 3/4" GAS CONNECTION, 100 GALLON CAPACITY, 294 GPH RECOVERY @ 100°F, DISCHARGE T&P VALVE INTO MOP SINK OR FLOOR DRAIN. PROVIDE 4.4 GALLON EXPANSION TANK (AMTROL EX-30 OR EQUAL). PROVIDE SEISMIC WATER HEATER STRAPS. DIMENSIONS: 77-5/8" H X 28-1/4" DIA 900 LB SHIPPING WEIGHT. PROVIDE 4" (PVC, CPVC, OR ABS) VERTICAL VENTING. TERMINATE THROUGH ROOF WITH CONCENTRIC VENT KIT PER MANUFACTURER'S RECOMMENDATIONS. ELECTRICAL: 115V AC REQUIRED.
GWH-3	GAS WATER HEATER (FLOOR MOUNTED)	BRADFORD WHITE LG2PDV50H603N	3/4"	3/4"		-	LIGHT DUTY COMMERCIAL POWER DIRECT VENT GAS WATER HEATER. 60 MBH INPUT, 1/2" GAS CONNECTION, 48 GALLON CAPACITY, 58 GPH RECOVERY @ 100°F, DISCHARGE T&P VALVE INTO MOP SINK OR FLOOR DRAIN. PROVIDE 2.1 GALLON EXPANSION TANK (WATTS PLT-5 OR EQUAL). PROVIDE SEISMIC WATER HEATER STRAPS. DIMENSIONS: 67" H X 22" DIA 205 LB SHIPPING WEIGHT. PROVIDE 3" (PVC, CPVC, OR ABS) VERTICAL VENTING. TERMINATE THROUGH ROOF WITH CONCENTRIC VENT KIT PER MANUFACTURER'S RECOMMENDATIONS. ELECTRICAL: 110 VAC REQUIRED FOR POWER VENTING (3.1 AMPERES)
GWH-4	GAS WATER HEATER (FLOOR MOUNTED)	BRADFORD WHITE EF-60T-199E-3N(A)	1-1/2"	1-1/2"	-	-	COMMERCIAL ULTRA HIGH EFFICIENCY GAS WATER HEATER. 92% THERMAL EFFICIENCY. DIRECT SPARK IGNITION. 199 MBH INPUT, 3/4" GAS CONNECTION, 60 GALLON CAPACITY, 223 GPH RECOVERY @ 100°F, DISCHARGE T&P VALVE INTO MOP SINK OR FLOOR DRAIN. PROVIDE 4.4 GALLON EXPANSION TANK (AMTROL EX-30 OR EQUAL). PROVIDE SEISMIC WATER HEATER STRAPS. DIMENSIONS: 57" H X 28-1/4" DIA 570 LB SHIPPING WEIGHT. PROVIDE 3" (PVC, CPVC, OR ABS) VERTICAL VENTING. TERMINATE THROUGH ROOF WITH CONCENTRIC VENT KIT PER MANUFACTURER'S RECOMMENDATIONS. ELECTRICAL: 115V AC REQUIRED.
HWCP-1	HOT WATER CIRCULATION PUMP	GRUNDFOS UP10-16BN5/TLC	-	1/2"	-	-	RECIRCULATION PUMP WITH MANUAL TIMER TO ALLOW FOR OPERATION DURING BUSINESS HOURS. INTEGRAL CHECK VALVE. ELECTRICAL: 115V PLUG IN TYPE. (6 FT LINE CORD)
HWCP-2	HOT WATER CIRCULATION PUMP	GRUNDFOS UP25-64SF	-	1/2"	-	-	RECIRCULATION PUMP. INTEGRAL CHECK VALVE. 5 GPM @ 15 FT HEAD, INTEGRAL CHECK VALVE. <u>ELECTRICAL</u> : 115V PLUG IN TYPE. (6 FT LINE CORD) 1/12 HP, 1.7 AMPS
MSB-1	MOP SINK BASIN	FLORESTONE MSR-2424	3/4"	3/4"	3"	1-1/2"	MOLDED MOP RECEPTOR, 24X24, 10" DEPTH, 18 GAUGE SS DRAIN GRID (#430), KOHLER K-8928, SERVICE SINK FAUCET, 3" THREADED THREADED SPOUT FOR HOSE CONNECTION, RUBBER HOSE WITH WALL HOOK. LEVER HANDLES
FS-1	FLOOR SINK	ZURN FD2375 (OR APPROVED EQUAL)	-	-	3"	1-1/2"	ENAMELED CAST IRON, ACID RESISTANT, DOME STRAINER, FULL GRATE
WM-1 WM-2	WATER METER (SUB-METERING)	BADGER RECORDALL MODEL M120 & M170 (OR APPROVED EQUAL)	-	1-1/2" 2"	_	-	LEAD FREE BRONZE ALLOW DISC METER (MATCH BUILDING WATER ENTRY SIZE 1-1/2" OR 2"), COMPLIES WITH AWWA STANDARD C700, 150 PSI MAX OPERATING PRESSURE.
BFP-1	BACKFLOW PREVENTER	WATTS MODEL SD-2 (OR APPROVED EQUAL)	1/2"	-	-	-	BACKFLOW PREVENTER FOR CARBONATED BEVERAGE MACHINES. DUAL CHECK DESIGN FOR PROTECTION OF WATER SUPPLY FROM CARBON DIOXIDE GAS AND CARBONATED WATER. ANSI/NSF STD 18 CERTIFIED, ASSE 1032 APPROVED DUAL CHECK VALVE, 316 STAINLESS STEEL BODY. MAX PRESSURE: 200 PSI, MAX TEMP: 110°F. PROVIDE RECOMMENDED STRAINER.
GD-1	FOOD WASTE DISPOSER	INSINKERATOR EVOLUTION	-	-	1-1/2"	-	ANTI-VIBRATION MOUNT, 34.6 OZ. CAPACITY, 12-1/4" HEIGHT. ELECTRICAL: 120 V, 3/4 HP, 8.1 AMPS
	KITCHEN SINK	KOHLER K-3996-4	4 (0.11	4 (01)	4.4.68	4 4 (0)	33X22X6 DUAL BOWL TOP-MOUNT ADA SINK, 4 HOLE, 18 GAUGE SS, 4" FAUCET CENTERS, 18 GAUGE SS,
KS-1	(ADA) FAUCET:	& KOHLER FORTE K-10445	1/2"	1/2"	1-1/2"	1-1/2"	FAUCET: PULL-OUT SPRAY, 1.8 GPM, LEVER HANDLES, (ADA), 7-3/4" SPOUT REACH, 4 HOLES.
UR-1	URINAL	SLOAN SU-1006	1"	-	1-1/2"	1-1/2"	TOP SPUD WALL HUNG, STANDARD WASHDOWN URINAL, VITREOUS CHINA
UR-2	(ADA)	ROYAL 181			/-	,=	1.5 GPF MANUAL FLUSHOMETER WITH WATER HAMMER ARRESTOR. 7
WC-1 WC-2	WATER CLOSET, FLOOR MOUNT (ADA)	SLOAN WETS-2450.1301 & ROYAL 113-1.28	1-1/2"		4"	2"	VITREOUS CHINA, ELONGATED BOWL, 1-1/2" TOP SPUD, COMMERCIAL TOILET SEAT, & BOLT CAP ACCESSORY
L-1	LAVATORY (ADA) FAUCET:	SLOAN SS-3001 & KOHLER K-16027-4	1/2"	1/2"	1-1/2"	1-1/2"	1.28 GPF MANUAL FLUSHOMETER. PROVIDE WITH WATER HAMMER ARRESTOR. 19.5"X16.5" VITREOUS CHINA UNDERMOUNTED WITH OVERFLOW. SINGLE HOLE BATHROOM FAUCET (ADA) LESS POP-UP TAIL PIECE, 1.2 GPM, 4-3/8" REACH. PROVIDE BDT VARIATION BELOW
L-2	LAVATORY (ADA)	SLOAN SS-3101 &	1/2"	1/2"	2"	1-1/2"	DECK THERMOSTATIC MIXING VALVE (SET WATER TEMP TO 110°F) PROVIDE UNDERCOUNTER PIPING INSULATION KIT. 20 3/4"X18 1/4" VITREOUS CHINA WALL MOUNTED LAVATORY, SINGLE HOLE. SINGLE HOLE BATHROOM FAUCET (ADA) LESS POP-UP TAIL PIECE, 1.2 GPM, 4-3/8" REACH. PROVIDE BDT VARIATION BELOW
	FAUCET: SINK	KOHLER K-16027-4 KOHLER VAULT K-5286	1/2"	1/0"	4.4/0"	4.4/0"	DECK THERMOSTATIC MIXING VALVE (SÉT WATER TEMP TO 110°F) PROVIDE UNDERCOUNTER PIPING INSULATION KIT. 24"X18-1/4" 16-GAUGE STAINLESS STEEL, SINGLE SQUARED BOWL, 9-INCH DEPTH
S-1	FAUCET:	UNDER-MOUNT KITCHEN SINK	1/2"	1/2"	1-1/2"	1-1/2"	FAUCET: KOHLER CORALAIS KITCHEN SINK FAUCET MODEL K-15888-K WRISTBLADE LEVER HANDLED FAUCET (ADA), 9" GOOSENECK SWING SPOUT. 1.8 GPM
S-2	SINK (ADA) FAUCET:	KOHLER VAULT K-3349-2 TOP MOUNT SINK	1/2"	1/2"	1-1/2"	1-1/2"	15"X15" 19-GAUGE STAINLESS STEEL, SINGLE BOWL, 2 FAUCET HOLES, 7-9/16-INCH DEPTH FAUCET: KOHLER CORALAIS KITCHEN SINK FAUCET MODEL K-15888-K WRISTBLADE LEVER HANDLED FAUCET (ADA), 9" GOOSENECK SWING SPOUT, 1.8 GPM
DF-1	DRINKING FOUNTAIN	SINK ELKAY ECDFPW314C	1/2"		2"	1-1/2"	ADA HEIGHT DRINKING FOUNTAIN, WALL MOUNT, FULLY EXPOSED. 304 STAINLESS STEEL WITH SATIN FINISH.
~~··				\propto		\propto	DUAL HEIGHT WATER COOLER WITH FILTER WITH INTEGRAL SENSOR ACTIVATED 1.1 GPM BOTTLE FILLING STATION.
EWC-1	ELECTRIC WATER COOLER	ELKAY LZWS-LRPBM28K	1/2"		2"	1-1/2"	STAINLESS STEEL, 8 GPH. RECIPROCATING TYPE COOLING SYSTEM. ELECTRICAL: 115V, 370 WATTS, 5.0 FLA (INSTALLATION REQUIRES 12" WALL DEPTH)

NOTES:

1. ALL FIXTURE FINISHES TO BE REVIEWED BY ARCHITECT PRIOR TO ORDERING.

1. ALL FIXTURE FINISHES TO BE REVIEWED BY ARCHITECT PRIOR TO ORDERING.

2. PROVIDE WATER HAMMER ARRESTORS @ ALL ICE MACHINES, WASHING MACHINES, & DISHWASHERS.

Donald L. Welch



324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com

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

consultant:



project:

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

date

April 24, 2017

Salt Lake County,

revisions

PERMIT SET-December 28, 2016

1 ADDENDUM #1-January 04, 2017

3 ADDENDUM #3-January 11, 2017

4 ADDENDUM #4-January 17, 2017

5 ADDENDUM #5-January 20, 2017

7 ADDENDUM#7-February 24, 2017

8 ADDENDUM#8 - March 20, 2017 9 ADDENDUM#9 – April 11, 2017

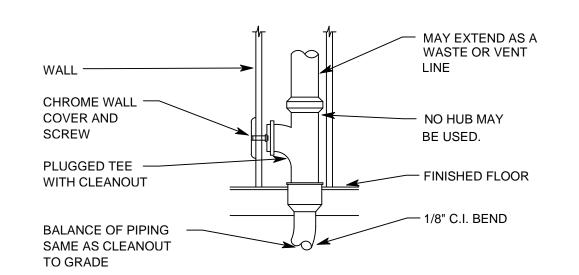
data

project no: drawn by: checked by:

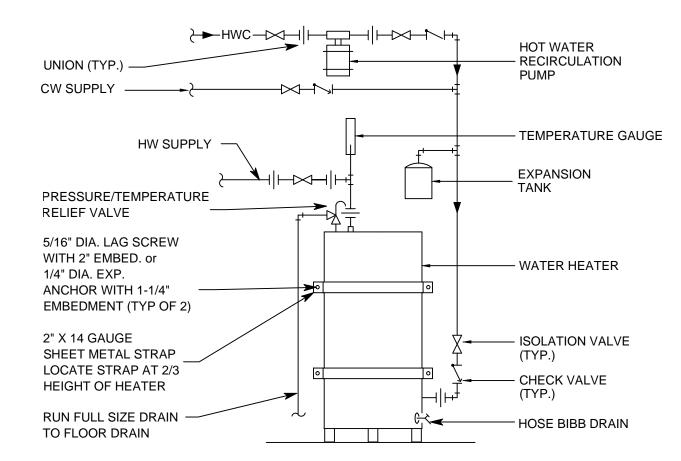
title

PLUMBING SCHEDULES & DETAILS sheet

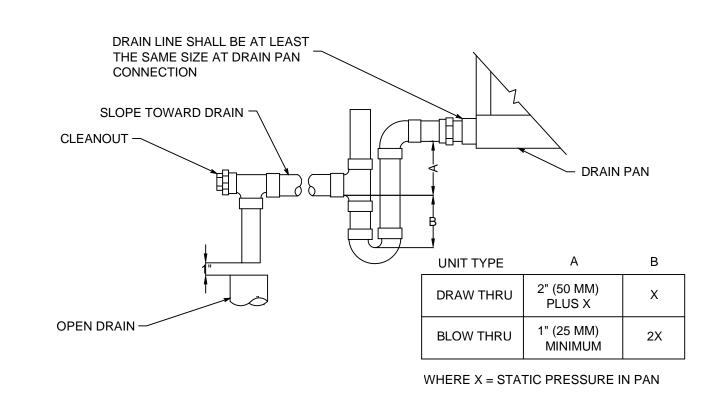
P11



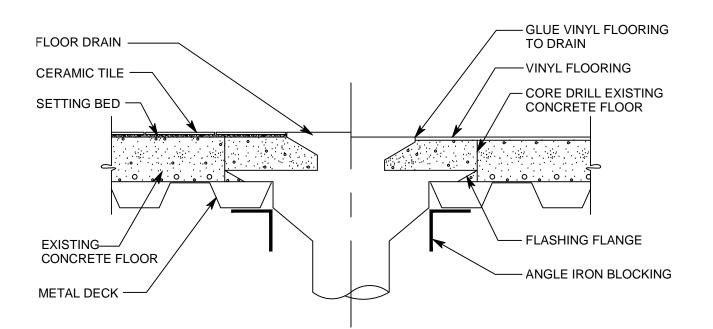




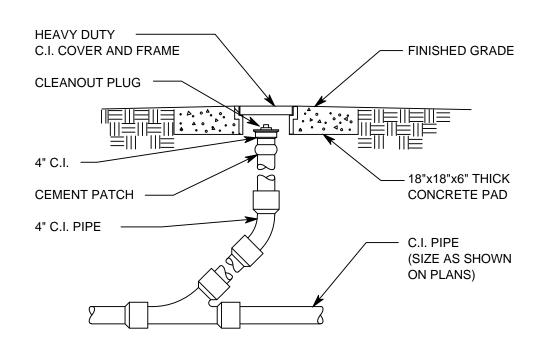




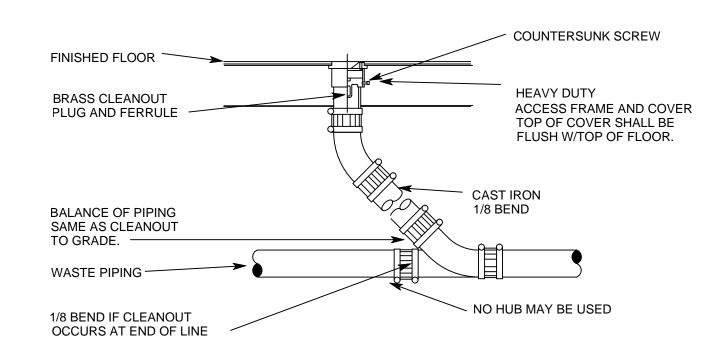




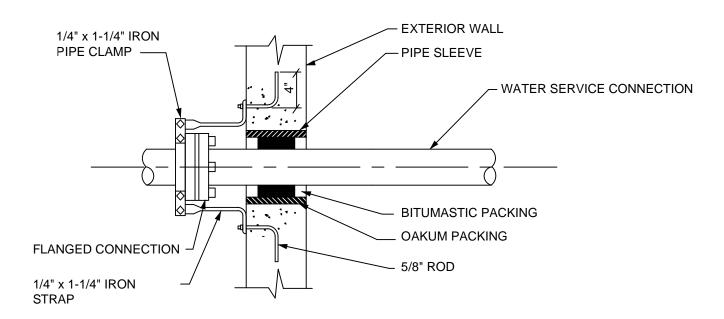
FLOOR DRAIN DETAIL





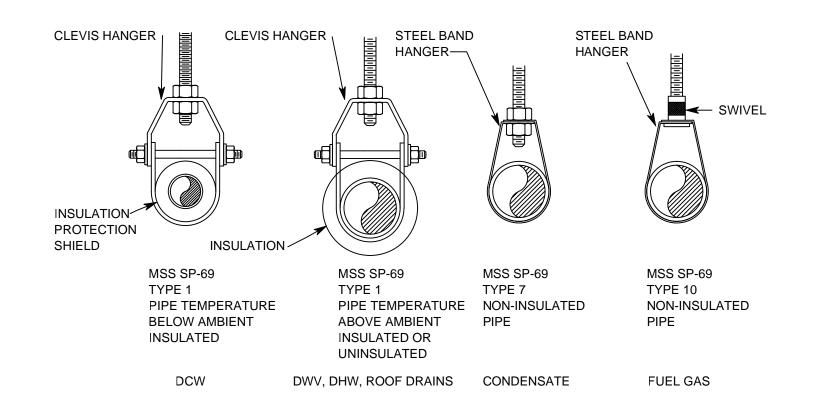






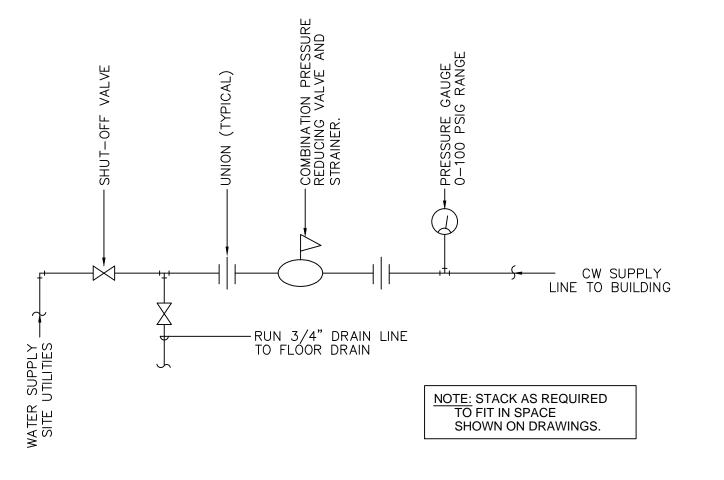
NOTE:
WATER SERVICE CONNECTION
THROUGH FLOOR TO BE ANCHORED
IN SIMILAR MANNER.

1 COLD WATER SERVICE ANCHORING





SCALE: NTS





Donald L. Welch
Architect
7533 Sandy Land Lane
Midvale, Utah 84047
801. 548-6391



324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com

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



project:

Tenant Finish
for New
Brighton
Recovery
Campus
4905, 4911, 4915,
4925, 4931, & 4953
South 900 East

date

| Salt Lake County,

April 24, 2017

PERMIT SET-December 28, 2016

ADDENDUM #1-January 04, 2017

ADDENDUM #3-January 11, 2017

ADDENDUM #4-January 17, 2017

4 ADDENDUM #4-January 17, 2017
5 ADDENDUM #5-January 20, 2017
7 ADDENDUM#7-February 24, 2017
8 ADDENDUM#8 - March 20, 2017
9 ADDENDUM#9 - April 11, 2017

data

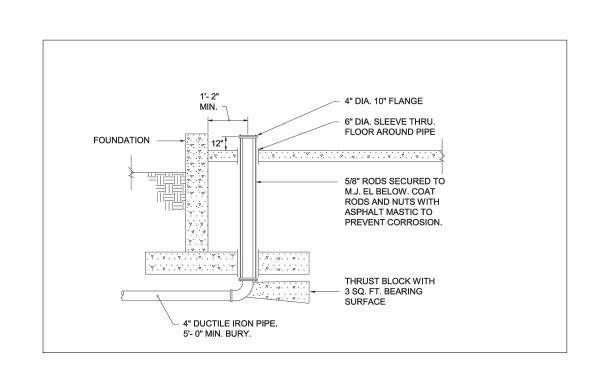
project no: drawn by: checked by:

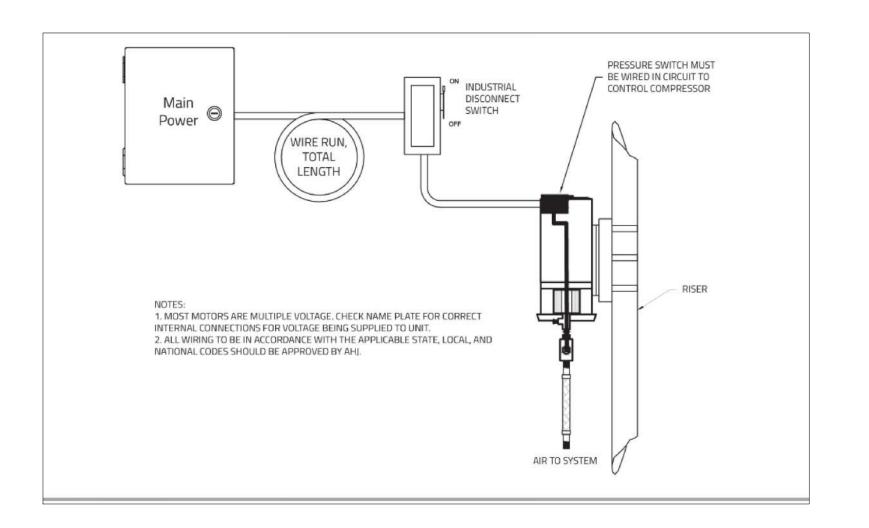
title PLUMB

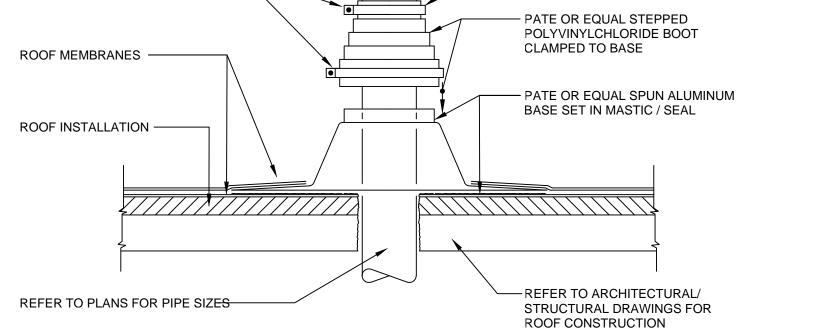
PLUMBING DETAILS

sheet

P12







-SANITARY VENT PIPING, TERMINATE 610mm (24") ABOVE ROOF (MIN.)

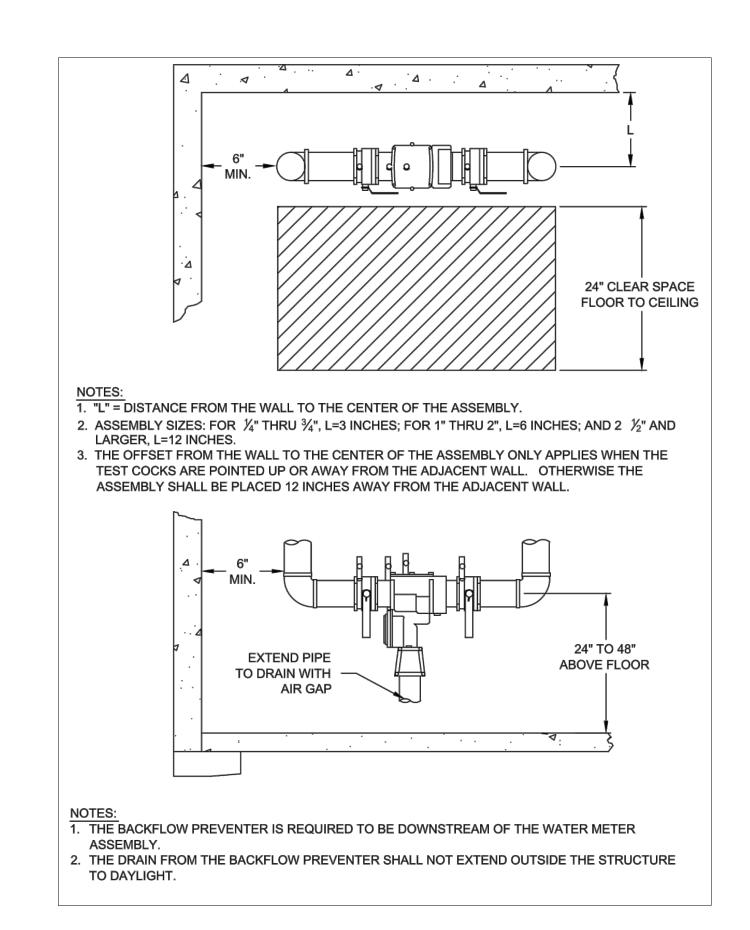
— STAINLESS STEEL CLAMP & SCREW (TYP.)

1 VENT THRU ROOF DETAIL
SCALE: NTS

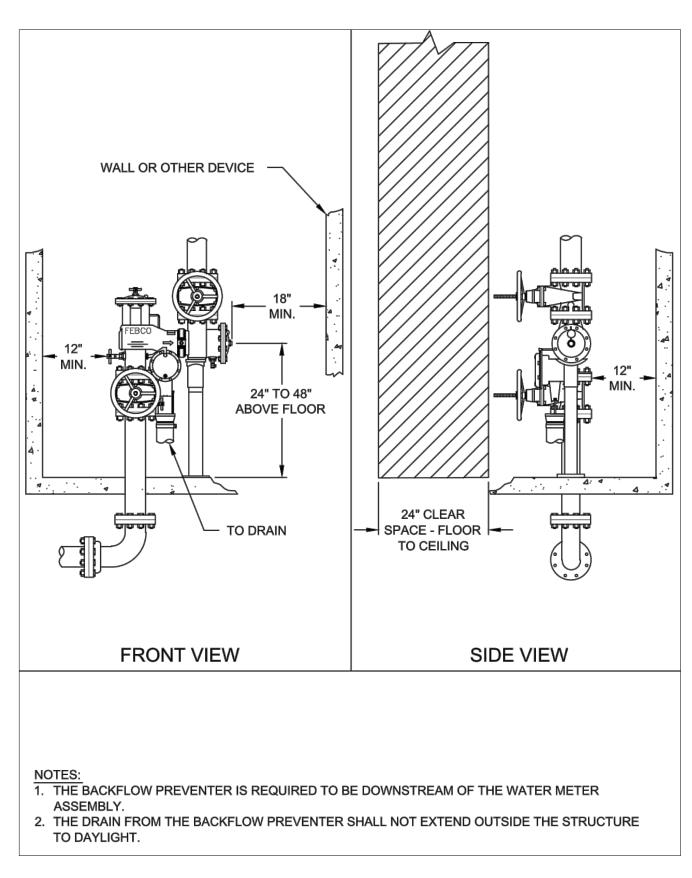
ADJUSTABLE CLAMPS (TYPICAL) —

5 FIRE SPRINKLER ENTRY DETAIL SCALE: NOT TO SCALE

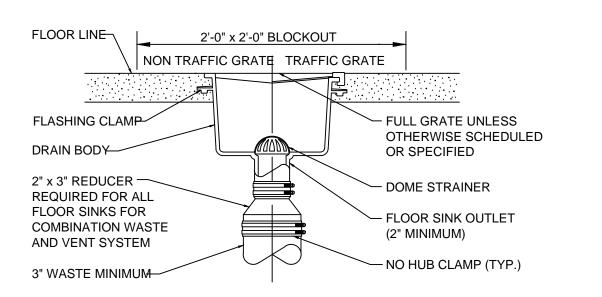




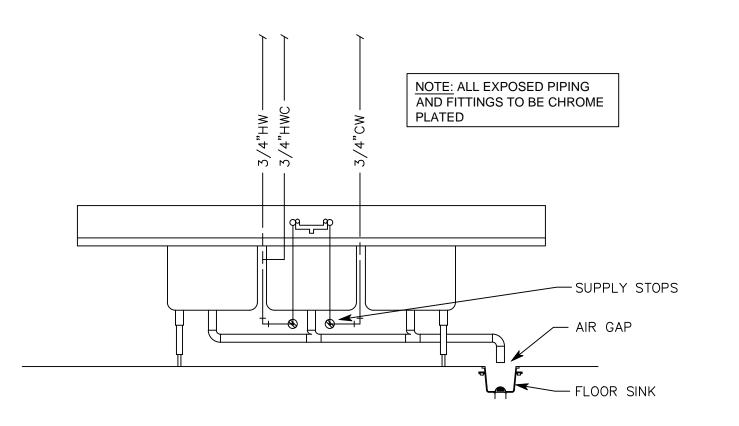
DOMESTIC REDUCED PRESSURE BACKFLOW PREVENTER



FIRE VERTICAL BACKFLOW PREVENTER







3-COMPARTMENT SINK DETAIL

SCALE: NTS
NOTE: PROVIDE HOT WATER CIRCULATION LINE AS NOTED ON PLAN VIEW.
DISHWASHER TO DRAIN INTO FLOOR SINK BELOW 3-COMP SINK.



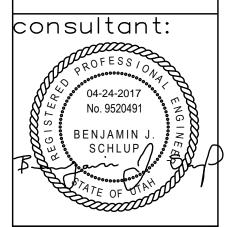
Donald L. Welch
Architect
7533 Sandy Land Lane
Midvale, Utah 84047



324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC 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 LIMITED REVIEW AND EVALUATION BY CLIENTS, CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNEL ONLY IN ACCORDANCE WITH THIS NOTICE.



project:

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

date

Salt Lake County,

April 24, 2017

revisions

PERMIT SET-December 28, 2016

1 ADDENDUM #1-January 04, 2017

3 ADDENDUM #3-January 11, 2017

4 ADDENDUM #4-January 17, 2017

5 ADDENDUM #5-January 20, 2017

7 ADDENDUM#7-February 24, 2017

8 ADDENDUM#8 - March 20, 2017

9 ADDENDUM#9 - April 11, 2017

data

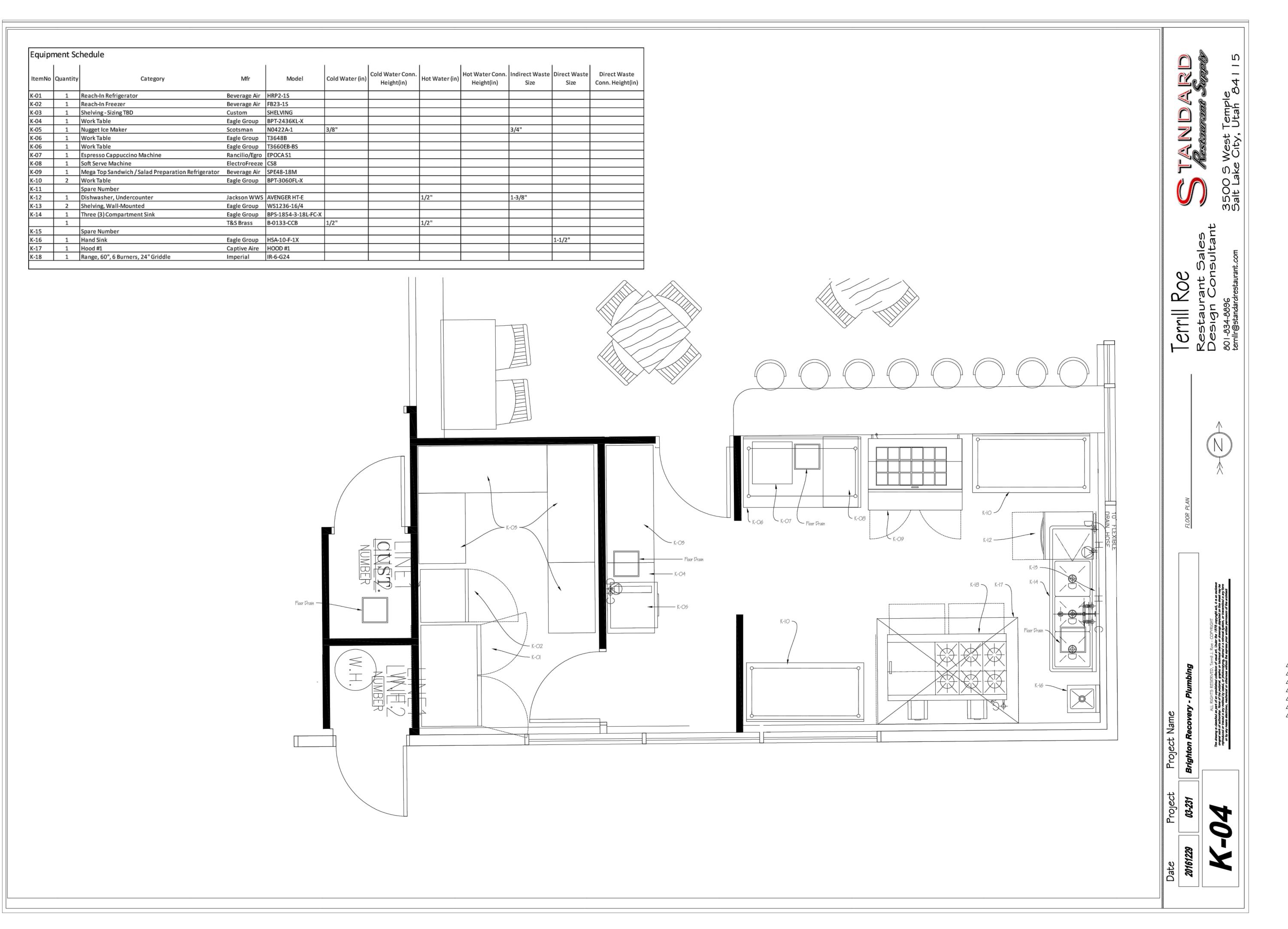
project no: drawn by: checked by:

title

PLUMBING DETAILS

sheet

P13



Donald L. Welch
Architect
7533 Sandy Land Lane
Midvale, Utah 84047
801.548-6391
dwelch5977@msn.com



324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, CRAPHIC 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 LIMITED REVIEW AND EVALUATION BY CLIENTS CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNEL ONLY IN ACCORDANCE WITH THIS NOTICE.



project:

Tenant Finish
for New
Brighton
Recovery
Campus
4905, 4911, 4915,
4925, 4931, & 4953
South 900 East

date

April 24, 2017

Salt Lake County,

Utah

revisions

PERMIT SET-December 28, 2016
ADDENDUM #1-January 04, 2017
ADDENDUM #3-January 11, 2017
ADDENDUM #4-January 17, 2017
ADDENDUM #5-January 20, 2017
ADDENDUM#7-February 24, 2017
ADDENDUM#8 - March 20, 2017
ADDENDUM#9 - April 11, 2017

data

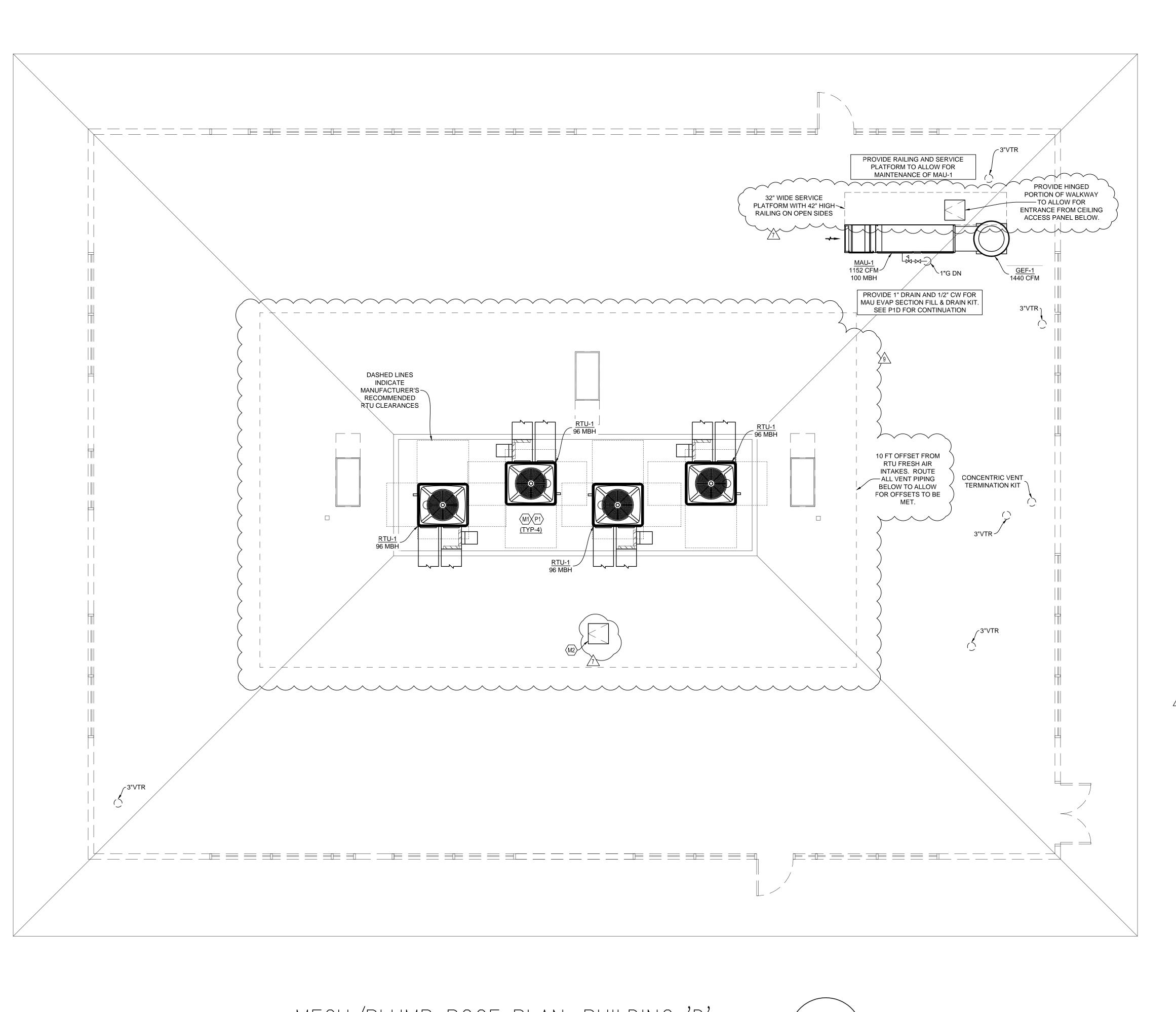
project no: drawn by: checked by:

title

PLUMBING DETAILS

sheet

P14



KEYED NOTES

MECHANICAL

LOCATION OF NEW ROOFTOP UNIT. COORDINATION FINAL LOCATION WITH EXISTING STRUCTURE. PROVIDE FLEXIBLE CONNECTION ON SUPPLY AND RETURN DUCTWORK TO MINIMIZE VIBRATION. PROVIDE EQUIPMENT CURB WITH RTU.

LOCATION OF ROOF ACCESS HATCH. HORIZONTAL ACCESS PATH TO SIDEWALL OF EXISTING EQUIPMENT WELL WITHIN ATTIC SPACE TO BE PROVIDED WHERE MAIN LEVEL CEILING ACCESS PANEL IS NOT LOCATED DIRECTLY BELOW EQUIPMENT WELL. REFERENCE ARCHITECTURAL PLANS FOR INSTALLATION DETAILS AND DIMENSIONS.

DIMENSIONS.

PLUMBING

ROUTE NEW GAS LINE TO UNDERSIDE OF ROOFTOP UNIT. PROVIDE GAS PRESSURE REGULATOR AND ISOLATION VALVE PER MANUFACTURER'S RECOMMENDATIONS.

GENERAL NOTES

- 1. PROVIDE NECESSARY EQUIPMENT CURBS/PLATFORMS FOR ALL EXTERIOR MECHANICAL EQUIPMENT.
- 2. EXISTING PRIMARY AND OVERFLOW ROOF DRAINS TO REMAIN. COORDINATE LOCATIONS OF ROOFTOP UNITS ACCORDINGLY. REPLACE DAMAGED ROOF DRAINS AS REQUIRED.
- 3. PROVIDE NECESSARY CLEARANCES TO ALLOW FOR SERVICE TO ALL ROOFTOP EQUIPMENT. COORDINATE RTU LOCATIONS WITH ROOF ACCESS HATCHES.
- 4. ALL GAS PIPING SIZED PER TABLE 402.4(2) 2015 IFGC. GAS PRESSURE DOWNSTREAM OF METER IS LESS THAN 2 PSI.
- 5. EXISTING VENT-THRU-ROOF LOCATIONS TO BE REUSED WHERE POSSIBLE. PROVIDE NEW VERTICAL VENT EXTENSIONS AS REQUIRED.
- 6. ROUTE CONDENSATE LINES FROM RTUS TO NEARBY EXISTING ROOF DRAIN. PROVIDE FULL SIZE DRAIN LINE AND TRAP PER MANUFACTURER'S RECOMMENDATIONS.
- 7. PROVIDE 10 FEET SEPARATION DISTANCE BETWEEN ALL RTU OUTSIDE AIR INTAKE LOCATIONS AND PLUMBING VENT TERMINATIONS.

SERVICE PLATFORM NOTES

- EVERY OPEN-SIDED FLOOR OR PLATFORM 4 FEET OR MORE ABOVE ADJACENT FLOOR OR GROUND LEVEL SHALL BE GUARDED BY A STANDARD RAILING ON ALL OPEN SIDES EXCEPT WHERE THERE IS ENTRANCE TO A RAMP, STAIRWAY, OR FIXED LADDER. THE RAILING SHALL BE PROVIDED WITH A TOEBOARD WHEREVER, BENEATH THE OPEN SIDES, PERSONS CAN PASS, THERE IS MOVING MACHINERY, OR THERE IS EQUIPMENT WITH WHICH FALLING MATERIALS COULD CREATE A HAZARD.
- 2. A STANDARD RAILING SHALL CONSIST OF TOP RAIL, INTERMEDIATE RAIL, AND POSTS, AND SHALL HAVE A VERTICAL HEIGHT OF 42 INCHES NOMINAL FROM UPPER SURFACE OF TOP RAIL TO FLOOR, PLATFORM, RUNWAY, OR RAMP LEVEL. THE TOP RAIL SHALL BE SMOOTH-SURFACED THROUGHOUT THE LENGTH OF THE RAILING. THE INTERMEDIATE RAIL SHALL BE APPROXIMATELY HALFWAY BETWEEN THE TOP RAIL AND THE FLOOR, PLATFORM, RUNWAY, OR RAMP. THE ENDS OF THE RAILS SHALL NOT OVERHANG THE TERMINAL POSTS EXCEPT WHERE SUCH OVERHANG DOES NOT CONSTITUTE A PROJECTION HAZARD.
- 3. A STANDARD TOEBOARD SHALL BE 4 INCHES NOMINAL IN VERTICAL HEIGHT FROM ITS TOP EDGE TO THE LEVEL OF THE FLOOR, PLATFORM, RUNWAY, OR RAMP. IT SHALL BE SECURELY FASTENED IN PLACE AND WITH NOT MORE THAN 1/4-INCH CLEARANCE ABOVE FLOOR LEVEL. IT MAY BE MADE OF ANY SUBSTANTIAL MATERIAL EITHER SOLID OR WITH OPENINGS NOT OVER 1 INCH IN GREATEST DIMENSION. WHERE MATERIAL IS PILED TO SUCH HEIGHT THAT A STANDARD TOEBOARD DOES NOT PROVIDE PROTECTION, PANELING FROM FLOOR TO INTERMEDIATE RAIL, OR TO TOP RAIL SHALL BE PROVIDED.
- 4. CONSTRUCTION TO BE OF 16G MATERIAL (MIN.) WALKING SURFACE TO BE GRATED MATERIAL TO ALLOW FOR DRAINAGE.
- 5. GENERAL CONTRACTOR TO PROVIDE SHOP DRAWING OF WORKING PLATFORM FOR
- APPROVAL BY OWNER & ARCHITECT.

Donal
Arc
7533 Sanc
Midvale,



324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC 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

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:

Tenant Finish
for New
Brighton
Recovery
Campus
4905, 4911, 4915,
4925, 4931, & 4953
South 900 East

Salt Lake County,

date

April 24, 2017

revisions

PERMIT SET-December 28, 2016

1 ADDENDUM #1-January 04, 2017
3 ADDENDUM #3-January 11, 2017
4 ADDENDUM #4-January 17, 2017
5 ADDENDUM #5-January 20, 2017
7 ADDENDUM#7-February 24, 2017
8 ADDENDUM#8 - March 20, 2017
9 ADDENDUM#9 - April 11, 2017

data

project no: drawn by: checked by:

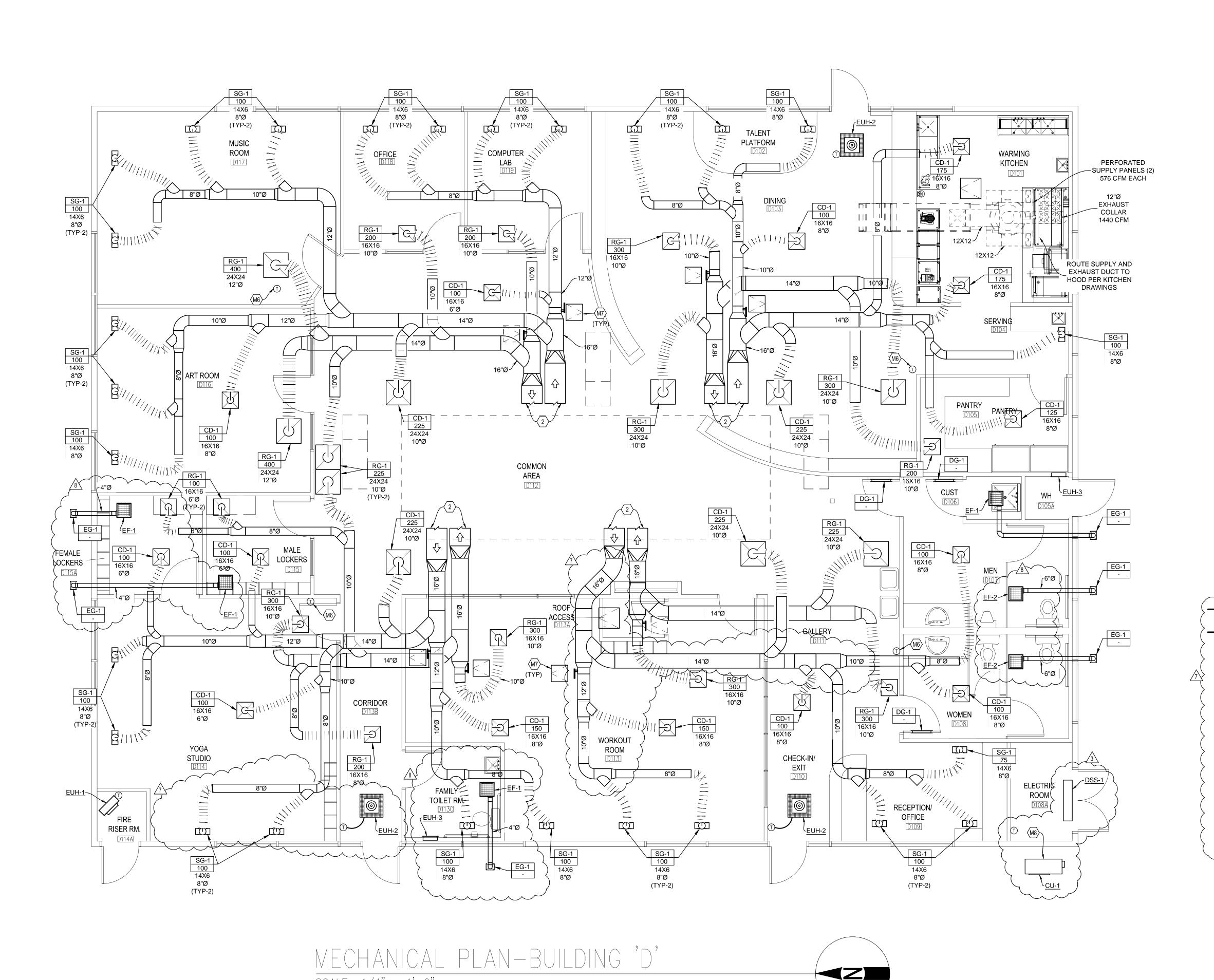
itle

MECH/PLUMB ROOF PLAN BUILDING 'D' sheet

MP1D

BUILDING 'D'

MECH/PLUMB ROOF PLAN-BUILDING 'D'
SCALE: 1/4" = 1'-0"



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

KEYED NOTES

- INSTALL EXHAUST FAN AT THIS LOCATION. CONTINUE EXHAUST DUCT TO TERMINATE AT UNDERSIDE OF BUILDING OVERHANG AS INDICATED. COORDINATE LOCATION WITH OVERHEAD PLUMBING.
- SEE ROOF PLAN FOR CONTINUATION OF SUPPLY AND RETURN AIR DUCTWORK.
- LOCATION OF RECESSED DRYER VENT BOX. CONTINUE 4"Ø DRYER DUCT TO TERMINATE AT UNDERSIDE OF BUILDING OVERHANG AS INDICATED.
- RE-CIRCULATING KITCHEN HOOD.
- PROVIDE TERMINATION KIT FOR DRYER EXHAUST AT THIS
- LOCATION FOR DIGITAL THERMOSTAT WITHIN LOCKING ENCLOSURE.
- ACCESS PANEL TO ALLOW FOR ADJUSTMENT TO ABOVE CEILING BALANCING DAMPER.
- LOCATE OUTDOOR CONDENSING UNIT AS REQUIRED.
 PROVIDE CONCRETE EQUIPMENT PAD AS NECESSARY. SEE
- PROVIDE CONCRETE EQUIPMENT PAD AS NECESSARY. SE EQUIPMENT SCHEDULE FOR NECESSARY ACCESSORIES. CONCEAL ALL REFRIGERANT PIPING.

GENERAL NOTES

- PROVIDE BALANCING DAMPERS ON ALL GRILLES, REGISTERS, & DIFFUSERS CONNECTED TO A ROOFTOP UNIT. ALLOW FOR ADJUSTMENT BY REMOVAL OF EXHAUST GRILLES OR BY PROVIDING ACCESS PANELS. (TYPICAL)
- 2. ROUTE SUPPLY AND RETURN AIR DUCTWORK THROUGH STRUCTURE AS REQUIRED. PROVIDE NECESSARY TRANSITIONS TO ALLOW FOR CLEAN PATH THE TERMINAL AIR DEVICES
- PROVIDE WATER TIGHT SEAL ON ALL DUCTWORK AS IT PENETRATE EXTERIOR ROOFING/WALL ASSEMBLIES.
- 4. PROVIDE (R-12 MIN.) INSULATION ON ALL ABOVE CEILING DUCTWORK ROUTED IN UNCONDITIONED SPACE.
- 5. COORDINATE LOCATIONS OF CEILING GRILLES, REGISTERS, AND DIFFUSERS WITH OVERHEAD PLUMBING PIPING ROUTING,
- 6. VENTILATION PROVIDED BY RTU ECONOMIZER SET TO 20%
- 7. ENVIRONMENTAL FANS SHALL NOT TERMINATE CLOSER THAN 3 FEET ADJACENT TO BUILDING OPENINGS.
- 8. PROVIDE FIRE-RATED DAMPERS AT ALL CEILING DIFFUSERS AND GRILLES TO MAINTAIN FIRE-RATED ASSEMBLY.

KITCHEN NOTES

- ALL GREASE EXHAUST DUCTWORK TO COMPLY WITH UL 181 AND CLOSURE SYSTEM SHALL BE PER UL 181B. IMC 603.6
- 2. GREASE DUCTS MUST BE A MINIMUM OF 12"X12". PER IMC 506.3.9
- 3. CLEANOUTS TO BE PROVIDED IN GREASE DUCTWORK. SPACING TO BE NO MORE THAN 20 FT APART AND NO MORE THAN 10 FT FROM CHANGES IN DIRECTION OVER
- 4. ALL CLEANOUTS IN GREASE EXHAUST DUCTWORK TO HAVE RATING NOT LESS THAN 1500 F. IMC 506.3.8.
- 5. PROVIDE A PERFORMANCE TEST AS WELL AS A CAPTURE AND CONTAINMENT TEST FOR ALL TYPE I HOOD SYSTEMS. THE CAPTURE AND CONTAINMENT TEST IS A VISUAL FIELD TEST WITH THE INSPECTOR, THE PERFORMANCE TEST INVOLVES TESTING AND BALANCING BY A QUALIFIED THIRD PARTY. TESTING AND BALANCING REPORTS REQUIRED AT TIME OF FINAL INSPECTION. IMC 507.6
- 6. PROVIDE A "LIGHT TEST' FOR ALL GREASE DUCTS PRIOR TO ENCLOSING OR CONCEALING. IMC 506.3.2.5
- 7. THE PERMIT HOLDER SHALL PROVIDE THE NECESSARY TEST EQUIPMENT AND DEVICES REQUIRED TO TEST THE EQUIPMENT. IMC 507.6
- 8. GREASE DUCT WRAP SHALL EXTEND FROM 18 INCHES BELOW ANY COMBUSTIBLE TRUSS OR WOOD JOIST TO A POINT 18 INCHES ABOVE THE SURFACE OF THE ROOF COVERING OR PROVIDE AN 18 INCH CLEARANCE TO COMBUSTIBLE MATERIAL FOR THE SAME DISTANCE OR PROVIDE A NON-COMBUSTIBLE ONE-HOUR FIRE-RATED SHAFT WITH GYP BOARD AND 3 INCHES MINIMUM REQUIRED CLEARANCE.



324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com

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

CONSULTANT:

QROFESS/ONA
O4-24-2017
No. 9520491
SCHLUP

RATE OF TAXABLE OF TA

project:

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

South 900 East

Salt Lake County,

date

April 24, 2017

revisions

PERMIT SET—December 28, 2016

ADDENDUM #1—January 04, 2017

ADDENDUM #3—January 11, 2017

ADDENDUM #4—January 17, 2017

ADDENDUM #5—January 20, 2017

ADDENDUM#7—February 24, 2017

ADDENDUM#8 — March 20, 2017

ADDENDUM#8 — April 11, 2017

data

project no: drawn by:

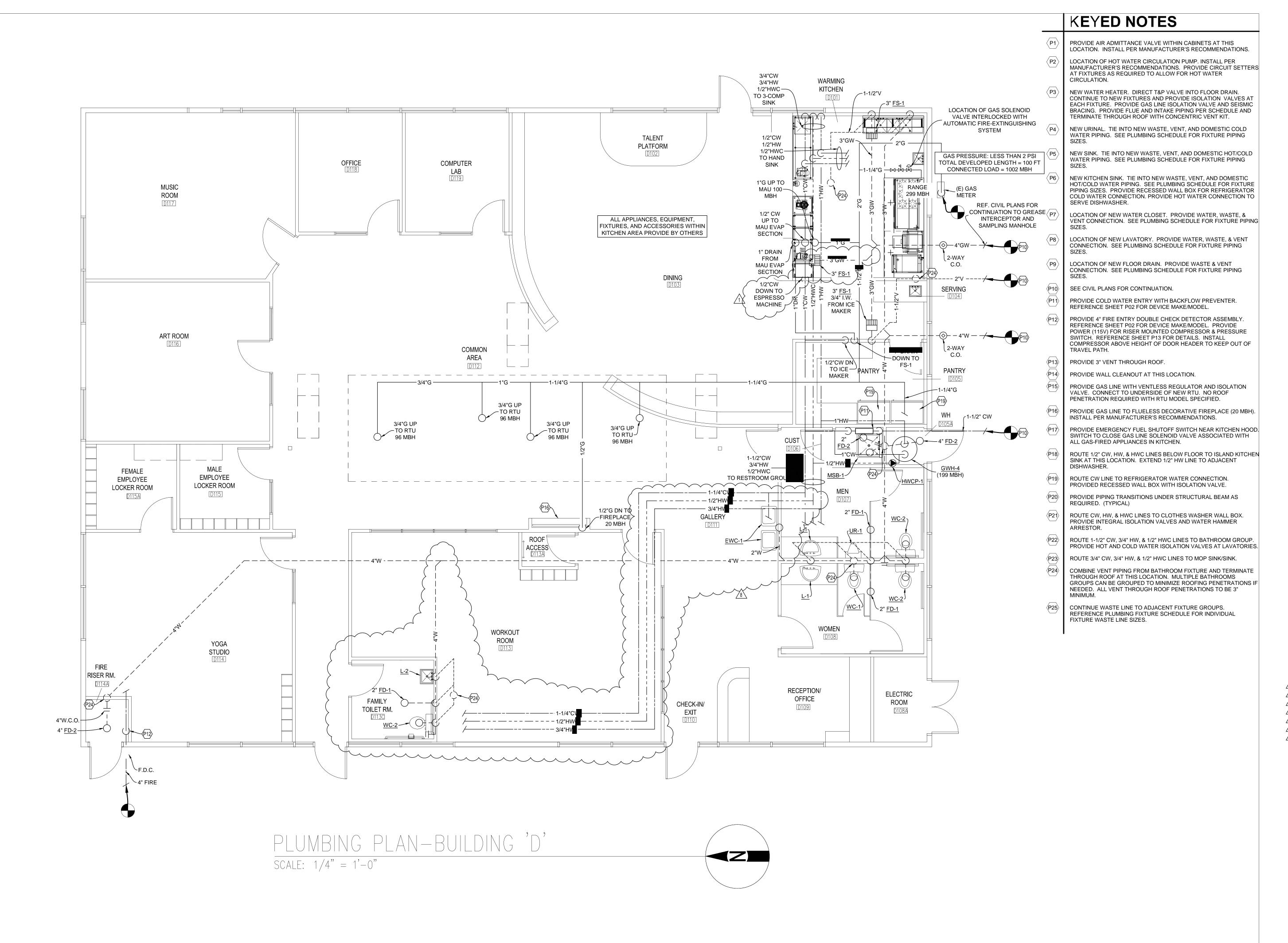
checked by:

sheet

MECHANICAL PLAN BUILDING 'D'

M1D

BUILDING 'D'



Donald L. Welch Architect



324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC 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

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: 04-24-2017 No. 9520491 BENJAMIN J SCHLUP/

project:

Brighton Recovery Campus 4905, 4911, 4915, 4925, 4931, & 4953

date

South 900 East

| Salt Lake County,

April 24, 2017

revisions

PERMIT SET-December 28, 2016 ADDENDUM #1-January 04, 2017 ADDENDUM #3-January 11, 2017 4 ADDENDUM #4-January 17, 2017 5 ADDENDUM #5-January 20, 2017 7\ADDENDUM#7-February 24, 2017 ADDENDUM#8 — March 20, 2017 9\\ADDENDUM#9 - April 11, 2017

data

project no: drawn by: checked by:

title PLUMBING

PLAN BUILDING 'D' sheet

P1D

BUILDING 'D'

www.provident-energy.com/ × O Climate Zone Number 5 | Op





i www.provident-energy.com/documents/2015%20IECC%







RESIDENTIAL ENERGY EFFICIENCY

In the column entitled MASS WALL R-VALUE a new footnote j is added as follows: "j, Log walls complying with the ICC400 and with a minimum average wall thickness of 5" or greater shall be permitted in Zones 5-8 when overall window glazing is .31 U-factor or lower, minimum heating equipment efficiency is 90 AFUE (gas) or 84 AFUE (oil), and all other requirements are met."

shall not include an R-value for other building materials or air films. Where insulated siding is used for the purpose of complying with the continuous insulation requirements of Table R402.1.2, the manufacturer's labeled R-value for insulated siding shall be reduced by R-0.6.

R402.1.4 U-factor alternative. An assembly with a U-factor equal to or less than that specified in Table R402.1.4 shall be permitted as an alternative to the R-value in Table R402.1.2.

R402.1.5 Total UA alternative. If the total building thermal envelope UA (sum of U-factor times assembly area) is less than or equal to the total UA resulting from using the U-factors in Table R402.1.4 (multiplied by the same

assembly area as in the proposed building), the building shall be considered in compliance with Table R402.1.2. The UA calculation shall be done using a method consistent with the ASHRAE Handbook of Fundamentals and shall include the thermal bridging effects of framing materials. The SHGC requirements shall be met in addition to UA compliance.

R402.2 Specific insulation requirements (Prescriptive). In addition to the requirements of Section R402.1, insulation shall meet the specific requirements of Sections R402.2.1 through R402.2.13.

R402.2.1 Ceilings with attic spaces. Where Section R402.1.2 would require R-38 insulation in the ceiling,

TABLE R402.1.2 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT

CLIMATE	FENESTRATIO		GLAZED FENESTRATION SHGC ^{b, c}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT° WALL R-VALUE	SLAB ^d R-VALUE & DEPTH	CRAWL SPACE ⁶ WALL R-VALUE
1	NR	0.75	0.25	30	13	3/4	13	0	0	0
2	0.40	0.65	0.25	38	13	4/6	13	0	0	0
3	0,35	0.55	0.25	38	20 or 13+5h	8/13	19	5/13 ^f	0	5/13
4 except Marine	0.35	0.55	0.40	49	20 or 13+5h	8/13	19	10 /13	10, 2 ft	10/13
5 and Marine 4	0.32	0.55	NR	49	20 or 13+5h	13/17	30 ^g	15/19	10, 2 ft	15/19
6	0.32	0.55	NR	49	20+5 or 13+10h	15/20	30 ^g	15/19	10, 4 ft	15/19
7 and 8	0.32	0.55	NR	49	20+5 or 13+10h	19/21	38 ^g	15/19	10, 4 ft	15/19

- a. R-values are minimums. *U*-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation the installed *R*-value of the insulation shall not be less than the *R*-value specified in the table.
- b. The fenegration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration. Exception: Skylights may be excluded from glazed fenestration SHGC requirements in climate zones 1 through 3 where the SHGC for such skylights does not exceed 0.30.
- "15/19" means R-15 continuous insulation on the interior or exterior of the home or R-19 cavity insulation at the interior of the basement wall, "15/19" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulation on the interior or exterior of the home. "10/13 means R-10 continuous insulation on the interior or exterior of the home or R-13 cavity insulation at the interior of the basement wall.
- d. R-5 shall be added to the required slab edge R-values for heated slabs. Insulation depth shall be the depth of the footing or 2 feet, whichever is less in Climate Zones 1 through 3 for heated slabs.
- There are no SHGC requirements in the Marine Zone.
- Basement wall insulation is not required in warm-humid locations as defined by Figure R301.1 and Table R301.1.
- Of insulation sufficient to fill the framing cavity, R-19 minimum.
- The first value is cavity insulation, the second value is continuous insulation, so "13+5" means R-13 cavity insulation plus R-5 continuous insulation.
 - the second R-value applies when more than half the insulation is on the interior of the mass wall.

TABLE R402.1.4 EQUIVALENT U-FACTORS

			EGUIVAL	LIVI D-FACT	Ono			
CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR	CEILING U-FACTOR	FRAME WALL U-FACTOR	MASS WALL U-FACTOR ^b	FLOOR U-FACTOR	BASEMENT WALL U-FACTOR	CRAWL SPACE WALL U-FACTOR
1	0.50	0.75	0.035	0.084	0.197	0.064	0.360	0.477
2	0.40	0.65	0.030	0.084	0.165	0.064	0.360	0.477
3	0.35	0.55	0.030	0.060	0.098	0.047	0.091°	0.136
4 except Marine	0.35	0.55	0.026	0.060	0.098	0.047	0.059	0.065
5 and Marine 4	0.32	0.55	0.026	0.060	0.082	0.033	0.050	0.055
6	0.32	0.55	0.026	0.045	0.060	0.033	0.050	0.055
7 and 8	0.32	0.55	0.026	0.045	0.057	0.028	0.050	0.055

- a. Nonfenestration U-factors shall be obtained from measurement, calculation or an approved source
- b. When more than half the insulation is on the interior, the mass wall U-factors shall be a maximum of 0.17 in Climate Zone 1, 0.14 in Climate Zone 2, 0.12 in Climate Zone 3, 0.087 in Climate Zone 4 except Marine, 0.065 in Climate Zone 5 and Marine 4, and 0.057 in Climate Zones 6 through 8.

c. Basement wall U-factor of 0.360 in warm-humid locations as defined by Figure R301.1 and Table R301.1.



Review Comments

Project:Brighton Recovery Campus-Building DFrom:Jason WorthenProject No:20160686Date:April 12,2017

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

BUILDING D RESPONSES

E1. Dishwasher shall be GFCI protected per NEC210.8 (D).

Response: Added a note requiring GFCI circuit breaker in the panel for the circuit feeding the dishwasher.

E2. Sheet E601: Please note and verify location of the concrete encased grounding electrode.

Response: Modified grounding electrode circuiting on one-line diagram (EP601) instructing the contractor to connect the new services ground bus to the building existing grounding electrode system.

E3. Please note on electrical roof top plan WP GFCI for RTU units per NEC 210.63.

Response: Provided 120 volt circuit to all rooftop units for GFI WP receptacle that will be provided with unit.

E4. Please provide complete and detailed available fault current calculations (in accordance with NEC 110.9 and 110.10) and show the following on the plans:

I. Specify the KVA rating and impedance of the utility transformer. If this information cannot be obtained from the power company, please base the calculations off of the worst case scenario per the infinite bus method using the largest KVA rated transformer required for the service and figure such transformer with an impedance of 2% or less.

Response: Added impedance of the utility transformer to one-line diagram. KVA rating is already shown.

II. Show lengths and types of all conductors in the calculations and specify the resistance of such.

Response: Conductor types are shown on the one-line diagram. Refer to attached table for lengths and resistances.

III. Specify the amount of available fault current that could be provided to each panel and each piece of electrical equipment based on the calculations.

Response: This information is shown in the fault current table on EP601.

IV. Show the fault current rating of each switchgear and each panelboard.

Response: Added the AIC rating for each panel to the panel schedules.

CENTERS OF
ENGINEERING EXCELLENCE
Healthcare
Higher Education
K-12 Education
Government
Houses of Worship

Special Projects

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



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

CENTERS OF ENGINEERING EXCELLENCE Healthcare Higher Education K-12 Education Government Houses of Worship Special Projects

> SALT LAKE CITY 324 S. State Street Suite 400 Salt Lake City, UT 84111 phone: 801-328-5151 fax: 801-328-5155

1501 W. Fountainhead Parkway Suite 340 Tempe, AZ 85282

phone: 480-621-3444

fax: 480-621-3445

PHOENIX

V. Specify on the plans the short circuit ratings of all overcurrent protection devices, or add a note on the plans that all overcurrent protective devices will have the same fault current rating as the rating of the panel or switchgear they are located within.

Response: Added general note to EP601 calling for all overcurrent protective devices to have the same AIC rating as the panel or gear they are located within.

VI. Please indicate on the plans that the calculated available fault current that could be provided to each equipment will be field marked as required by NEC110.24(A).

Response: Added a general note to EP601 requiring that all electrical equipment be field marked with the calculated available fault current.

N2. Sheet EL601: Recessed lighting shall be IC rated and airtight if penetrating the air or thermal barriers per IECC C402.5.8.

Response: Modified all can lights to be IC rated.

N6. Per IECC C405.2.2, for lighting which is not provided with an occupancy sensor control please provide time-switch controls to automatically shut off lighting.

Response: Lighting is provided with occupancy or vacancy sensors.

N7. Per IECC C405.2.3, it appears that reception area is a daylight zone which will require daylight responsive controls. Please clarify.

Response: The reception area is a daylight zone and is controlled with lighting load a, which is provided with daylight responsive controls.

N8. Please show the toplight daylight zones created by the skylights per IECC C405.2.3.3.

A. Per IECC C405.2.3 provide daylight responsive controls for all daylight zones with more than 150 watts of general lighting.

Response: Added the daylight zones to the drawings and added daylight responsive controls in the daylight zones.

N12. Please provide a lighting power analysis for the interior lighting in accordance with IECC C405.4.

Response: See attached ComCheck report.

N10. Please clarify how the exterior lighting for this project will be controlled. Verify that lighting controls will meet the requirements of IECC C405.2.5.

Response: Per sheet EP603 exterior lighting will be controlled via a lighting control panel based on input from exterior photo cells.

N11. Please provide a lighting power analysis for the exterior lighting in accordance with IECC C405.5.1.

Response: See attached ComCheck report.



BUILDING D DRAWINGS

EP11D (see attached sheet)

- 1. Added keynote requiring the dishwasher be protected by a GFCI circuit breaker.
- 2. Added one 120V circuit for receptacles provided with roof top units and modified key note #1.
 - 3. Added a duplex receptacle in the new corridor by the yoga studio.
 - 4. Added power connection for EUH-2 in Corridor by the Yoga Studio.
- 5. Deleted one duplex receptacle in workout room. Relocated two duplex receptacles to accommodate Family Toilet
 - 6. Added one above counter GFCI receptacle for Family Toilet.
 - 7. Added a dedicated duplex receptacle for drinking fountains.
- 8. Changed exhaust fans in Men D107 and Women D108 from EF-1 fans to EF-2 fans.
 - 9. Added power for exhaust fans in both employee locker rooms.
 - 10. Added power for exhaust fan and unit heater in Family Toilet D113C.

EP401

1. Removed sheet from the set.

EP601 (see attached sheet)

- 1. Added impedance for the transformer that was used for fault current calculations.
- 2. Added general note calling for all overcurrent protective devices to have the same AIC rating as the panel or gear they are located within.
- 3. Added a general note requiring that all electrical equipment be field marked with the calculated available fault current.
 - 4. Changed one-line diagram to shown the grounding electrodes as existing.
- 5. Changed all branch circuit panels from main lugs only to main circuit breaker panels.
 - 6. Added panel LE2.
 - 7. Added EF-2 to the equipment schedule.
- 8. Added grounding electrodes and grounding electrode conductors for the panels in buildings B, C, D, E and F.

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.

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

CENTERS OF ENGINEERING EXCELLENCE Healthcare Higher Education K-12 Education

Government
Houses of Worship
Special Projects

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



EL11D (see attached sheet)

- 1. Shifted lighting to match architectural plans.
- 2. Added three DX-1 fixtures and an occupancy sensor to the corridor by the yoga studio.
 - 3. Added a dimmer at each end of the corridor by the yoga studio.
 - 4. Added one DX-1 fixture in the Check-in/Exit.
 - 5. Added dashed line showing daylight zones.
 - 6. Added an occupancy sensor/photocell in the Reception/Office.
- 7. Changed to occupancy sensor/photocell in the Gallery to be just a occupancy sensor.
- 8. Revised lighting zones in the dining, common area, gallery, reception and check-in.
 - 9. Shifted one W-3 fixture in Workout Room to accommodate the family toilet.
- 10. Added one WS-2 fixture and one DX-1 fixture with a wall mounted occupancy sensor in Family Toilet.

EL601 (see attached sheet)

1. Changed the acceptable fixture types for DX-1, DX-2 and DX-4 fixtures.

EY11D (see attached sheet)

- 1. Added a camera in the new corridor by the yoga studio.
- 2. Added a card reader to the new entrance by the yoga studio.

FA11D (see attached sheet)

- 1. Added a pull station in the new corridor by the yoga studio.
- 2. Added a strobe in Family Toilet.

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

DISCIPLINES

CENTERS OF

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

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

COMcheck Software Version 4.0.5.2



Project Information

Energy Code: 2015 IECC

Project Title: Brighton Recovery Campus Bulding E

Project Type: Alteration

Construction Site: Owner/Agent: Designer/Contractor:

4931 South 900 East

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Common Space Types:Electrical/Mechanical	109	0.95	104
2-Common Space Types:Storage	105	0.63	66
3-Common Space Types:Classroom/Lecture/Training	490	1.24	608
4-Common Space Types:Restrooms	275	0.98	270
5-Common Space Types:Computer Room	120	1.71	205
6-Common Space Types:Office - Enclosed	120	1.11	133
7-Gymnasium/Fitness Center:Exercise Area	973	0.72	701
8-Common Space Types:Dining Area - Cafeteria/Fast Food	983	0.65	639
9-Common Space Types:Lounge/Breakroom	1240	0.73	905
10-Common Space Types:Corridor/Transition <8 ft wide	104	0.66	69
11-Common Space Types:Locker Room	140	0.75	105

Total Allowed Watts = 3804

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Common Space Types:Electrical/Mechanical (109 sq.ft.)				
W-3 copy 1: W-3: LINEAR SURFACE MOUNT: Other:	1	2	48	96
TX-4: TX-4: SURFACE MOUNT: Other:	1	3	22	66
Common Space Types:Storage (105 sq.ft.) W-3: W-3: LINEAR SURFACE MOUNT: Other:	1	1	48	48
Common Space Types:Classroom/Lecture/Training (490 sq.ft.) W-2: W-2: LINEAR SURFACE MOUNT: Other:	1	8	57	456
Common Space Types:Restrooms (275 sq.ft.) DX-2: DX-2: 7" LED DOWNLIGHT: LED Other Fixture Unit 50W:	1	4	54	216
WS-2: WS-2: 36" VANITY LIGHT: LED Other Fixture Unit 36W:	1	2	19	38
Common Space Types:Computer Room (120 sq.ft.) W-2 copy 1: W-2: LINEAR SURFACE MOUNT: Other:	1	2	57	114
Common Space Types:Office - Enclosed (120 sq.ft.) W-2 copy 2: W-2: LINEAR SURFACE MOUNT: Other:	1	2	57	114
Gymnasium/Fitness Center:Exercise Area (973 sg.ft.)				

Project Title: Brighton Recovery Campus Bulding E Report date: 03/10/17

Data filename: P:\2016\20160686\0Quality_Control\Design_and_Calculations\26Electrical\Lighting\Building D Page 1 of 8

Comcheck.cck

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	(C X D)
W-3 copy 1: W-3: LINEAR SURFACE MOUNT: Other:	1	12	48	576
Common Space Types:Dining Area - Cafeteria/Fast Food (983 sq.ft.) TX-1: TX-1: SURFACE MOUNT: Other: TX-2: TX-2: SURFACE MOUNT: Other: TX-5: TX-5: SURFACE MOUNT: Other:	1 1 1	4 1 3	100 37 24	400 37 72
W-3 copy 2: W-3: LINEAR SURFACE MOUNT: Other: Common Space Types:Lounge/Breakroom (1240 sq.ft.) TX-5 copy 1: TX-5: SURFACE MOUNT: Other: DX-1: DX-1: 7" LED DOWNLIGHT: LED Other Fixture Unit 36W: W-2 copy 3: W-2: LINEAR SURFACE MOUNT: Other:	1 1 1	3 6 23 2	48 24 27 57	144 144 621 114
Common Space Types:Corridor/Transition <8 ft wide (104 sq.ft.) DX-1 copy 1: DX-1: 7" LED DOWNLIGHT: LED Other Fixture Unit 36W: Common Space Types:Locker Room (140 sq.ft.)	1	3	27	81
W-2: W-2: LINEAR SURFACE MOUNT: Other:	1	2 Total Propos	57 sed Watts =	114 3451

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.0.5.2 and to comply with any applicable mandatory requirements listed in the Inspection Check.

Jason Worthen - Professional Engineering Intern
Name - Title

03/10/2017
Date

Project Title: Brighton Recovery Campus Bulding E Report date: 03/10/17

 $Data\ filename:\ P:\ 2016\ 20160686\ OQuality_Control\ Design_and_Calculations\ 26 Electrical\ Lighting\ D\qquad Page\qquad 2\ of\qquad 8$

COMcheck Software Version 4.0.5.2



Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC

Project Title: Brighton Recovery Campus Bulding E

Project Type: Alteration

Exterior Lighting Zone 2 (Residential mixed use area)

Construction Site: Owner/Agent: Designer/Contractor:

4931 South 900 East

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)	
Parking area	41175 ft2	0.06	Yes	2470	
Plaza area	9000 ft2	0.14	Yes	1260	
Entry canopy	5511 ft2	0.25	Yes	1378	
		Total Tradab	ole Watts (a) =	5108	
		Total All	lowed Watts =	5108	
	Total All	Total Allowed Supplemental Watts (b) =			

⁽a) Wattage tradeoffs are only allowed between tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	(C X D)
Parking area (41175 ft2): Tradable Wattage	_	4.0	0.4	0.40
OC-32 copy 1: OC-32: LED WALL PACK: LED Other Fixture Unit 50W:	1	10	24	240
ZX-2: ZX-2: Other:	1	4	72 72	288
ZX-4: ZX-4: Other: Plaza area (9000 ft2): Tradable Wattage	1	8	72	576
OC-32: OC-32: LED WALL PACK: LED Other Fixture Unit 50W: Entry canopy (5511 ft2): Tradable Wattage	1	7	24	168
HG-1: HG-1: CANOPY LIGHT: Other:	1	85	50	4250
	Total Tra	dable Propos	sed Watts =	5522

Exterior Lighting PASSES: Design 3% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.0.5.2 and to comply with any applicable mandatory requirements listed in the Inspection Che

Jason Worthen - Professional Engineering Intern

Name - Title

03/10/2017

Project Title: Brighton Recovery Campus Bulding E Report date: 03/10/17

Data filename: P:\2016\20160686\0Quality_Control\Design_and_Calculations\26Electrical\Lighting\Building D Page 3 of 8

Comcheck.cck

⁽b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

COM*check* Software Version 4.0.5.2 **Inspection Checklist**

Energy Code: 2015 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

0 11			
Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	□Complies □Does Not □Not Observable □Not Applicable	
C103.2 [PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	□Complies □Does Not □Not Observable □Not Applicable	
C406 [PR9] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	□Complies □Does Not □Not Observable □Not Applicable	

Additional Comments/Assumptions:

	1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
--	---	----------------------	---	------------------------	---	---------------------

Brighton Recovery Campus Bulding E Project Title: Report date: 03/10/17

Data filename: P:\2016\20160686\0Quality Control\Design and Calculations\26Electrical\Lighting\Building D

4 of 8

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15] ¹	50%	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.1 [EL18] ¹	required spaces.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.1, C405.2.2. 3 [EL23] ²	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.2. 1 [EL22] ²	building lighting installed in all buildings.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.3 [EL16] ²	individual controls that control the lights independent of general area lighting.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.3, C405.2.3. 1, C405.2.3. 2 [EL20] ¹	Primary sidelighted areas are equipped with required lighting controls.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.3, C405.2.3. 1, C405.2.3. 3 [EL21] ¹		□Complies □Does Not □Not Observable □Not Applicable	
C405.2.4 [EL4] ¹		□Complies □Does Not □Not Observable □Not Applicable	
C405.2.4 [EL8] ¹	allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.5 [EL25] ^{null}	daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	□Does Not □Not Observable □Not Applicable	
C405.3 [EL6] ¹	face.	□Complies □Does Not □Not Observable □Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Brighton Recovery Campus Bulding E Report date: 03/10/17 Data filename: P:\2016\20160686\0Quality_Control\Design_and_Calculations\26Electrical\Lighting\Building D Page 6 of 8

Comcheck.cck

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5. 2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.4.1 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Complies □Does Not □Not Observable □Not Applicable	See the Interior Lighting fixture schedule for values.
C405.5.1 [FI19] ¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Complies □Does Not □Not Observable □Not Applicable	See the Exterior Lighting fixture schedule for values.
C408.2.5. 1 [FI16] ³	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	□Complies □Does Not □Not Observable □Not Applicable	
C408.3 [FI33] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	□Complies □Does Not □Not Observable □Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

7 of 8

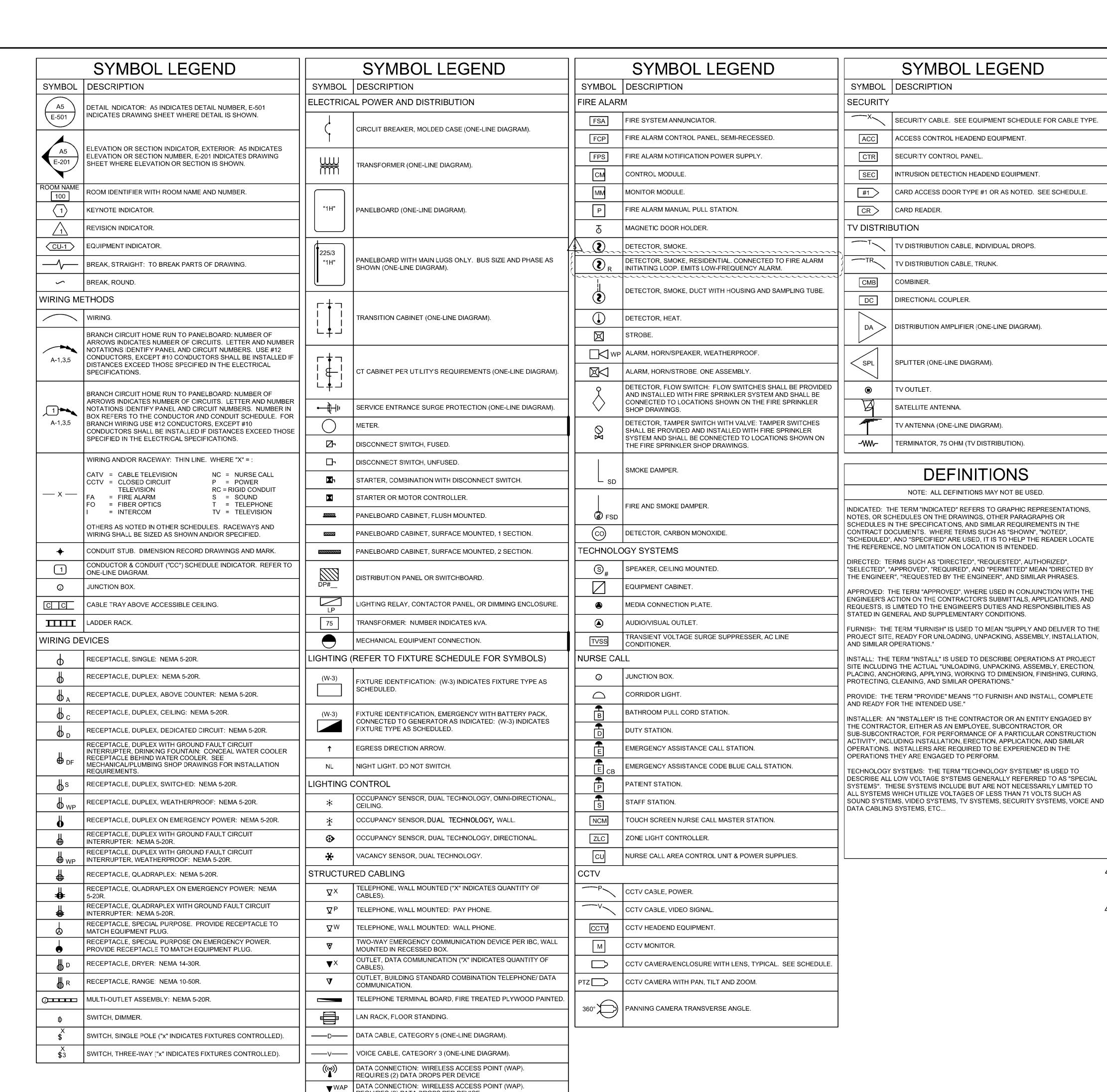
Project Title: Brighton Recovery Campus Bulding E Report date: 03/10/17

 $\label{lem:power_power_power} Data\ filename: P:\2016\20160686\0Quality_Control\Design_and_Calculations\26Electrical\Lighting\Building\ D\\ Comcheck.cck$

Project Title: Report date: 03/10/17 Brighton Recovery Campus Bulding E

Data filename: P:\2016\20160686\0Quality_Control\Design_and_Calculations\26Electrical\Lighting\Building D Comcheck.cck 8 of 8

Component Name	Length (ft)	Rpos (Ohms/1000 ft)	Xpos (Ohms/1000 ft)	Rzero (Ohms/1000 ft)	Rzero (Ohms/1000 ft)
MDP - LA	5	0.064	0.0497	0.2017	0.1224
MDP - LB	82	0.064	0.0497	0.2017	0.1224
MDP - LC	120	0.0805	0.0519	0.2537	0.1278
MDP - LD	138	0.0552	0.0495	0.1739	0.1219
MDP - LE	155	0.0552	0.0495	0.1739	0.1219
MDP - LF	100	0.064	0.0497	0.2017	0.1224
METER/CT - MDP	5	0.0356	0.049	0.1122	0.1206
XFMR - METER/CT	75	0.0356	0.049	0.1122	0.1206



REQUIRES (2) DATA DROPS PER DEVICE

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.

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.

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

- 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
- C. THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY 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.

ELECTRICAL SHEET INDEX

SHEET NO	SHEET TITLE
EE001	SYMBOL SCHEDULE, SHEET INDEX
ES101	ELECTRICAL SITE PLAN
EP11D	POWER PLAN - BUILDING 'D'
EP401	TYPICAL POWER PLANS
EP501	DETAILS
EP502	DETAILS
EP503	DETAILS
EP601	ONE LINE DIAGRAM
EP602	PANEL SCHEDULES
EP603	PANEL SCHEDULES
EL11D	LIGHTING PLAN - BUILDING 'D'
EL601	LIGHTING FIXTURE SCHEDULE
EY11D	AUXILIARY PLAN - BUILDING 'D'
EY601	AUXILIARY RISER DIAGRAMS
EY602	AUXILIARY RISER DIAGRAMS
EY603	AUXILIARY RISER DIAGRAMS
FA11D	FIRE ALARM PLAN - BUILDING 'D'
FA601	FIRE ALARM RISER DIAGRAM

CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL

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.

INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.

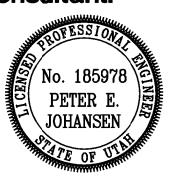
- WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.
- DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING
- EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE 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.

Welch Architect Donald

E DESIGNS SHOWN AND DESCRIBED HERE NCLUDING ALL TECHNICAL DRAWINGS RAPHIC REPRESENTATION & MODELS THEREOF, ARE PROPRIETARY & CAN NOT COPIED, DUPLICATED, OR COMMERCIALLY EXPLOITED IN WHOLE OR IN PART WITHOU THE SOLE AND EXPRESS WRITTEN PERMISSION FROM DONALD L. WELCH

HESE DRAWINGS ARE AVAILABLE FOR LIMITED REVIEW AND EVALUATION BY CLIENT CONSULTANTS, CONTRACTORS, GOVERNMEN AGENCIES, VENDORS, AND OFFICE PERSONN ONLY IN ACCORDANCE WITH THIS NOTICE.

consultant:



project:

 $\overline{}$

 $\overline{}$

 \Box

 ∞

 $\overline{}$

 ∞

 \mathcal{C}

 \mathcal{C}

#

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

Salt Lake County, Utah

January 04, 2017

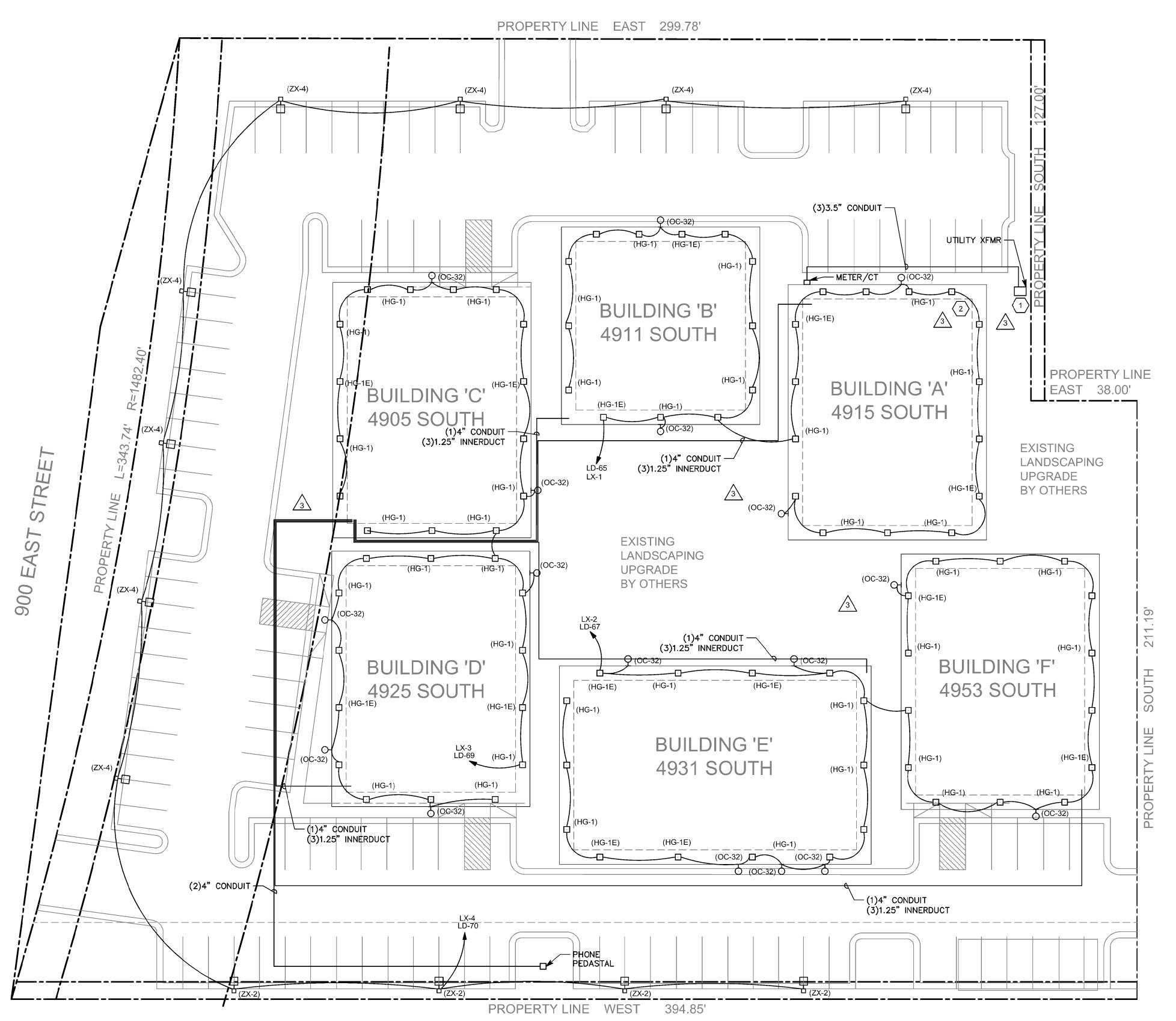
revisions

PERMIT SET-December 28, 2016 **11** ADDENDUM #1-January 04, 2017 ADDENDUM #2-January 06, 2017 ADDENDUM #3-January 11, 2017 ADDENDUM #4-January 17, 2017 () Z3 ADDENDUM #5-January 19, 2017 ADDENDUM #7-April 12, 2017

drawn by: checked by:

SCHEDULE SHEET INDEX

4895 SOUTH STREET



GENERAL SHEET NOTES

○ SHEET KEYNOTES

- 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

NCLUDING ALL TECHNICAL DRAWINGS, RAPHIC REPRESENTATION & MODELS THEREOF, ARE PROPRIETARY & CAN NOT BI COPIED, DUPLICATED, OR COMMERCIALLY XPLOITED 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.

consultant:



project:

 ∞

20

Tenant Finish 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 #1—January 04, 2017 ADDENDUM #2-January 06, 2017 ADDENDUM #4-January 17, 2017
ADDENDUM #5-January 19, 2017
ADDENDUM #7-April 12, 2017

data

checked by:

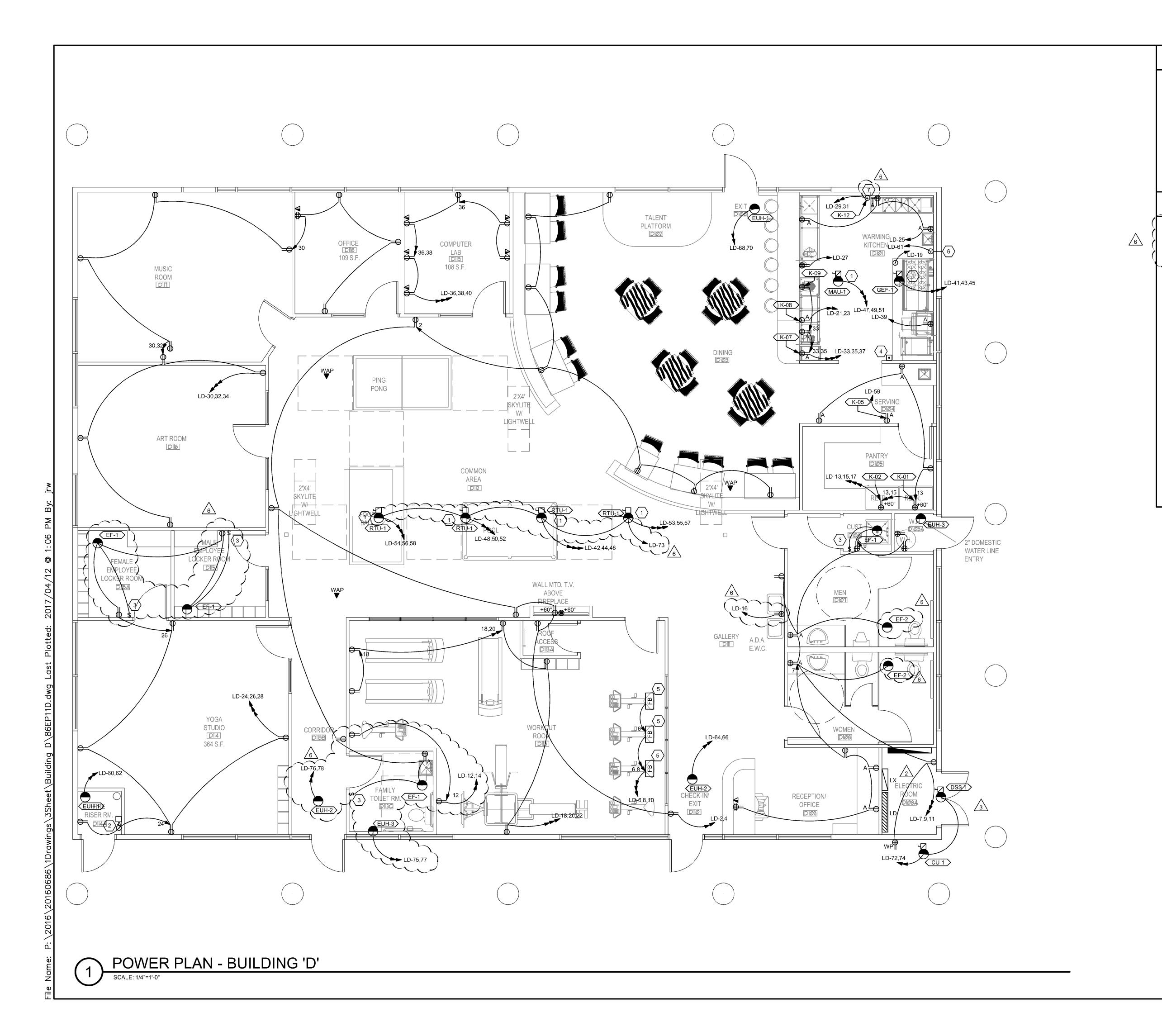
title

ELECTRICAL SITE PLAN

sheet

ES1|01

ELECTRICAL SITE PLAN



GENERAL SHEET NOTES

○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.**

- PROVIDE DEDICATED 120V CIRCUIT AND A 30/3P DISCONNECT FOR FIRE ENTRY FLOW SWITCH AND AIR COMPRESSOR.
- PROVIDE A 20A/1P SWITCH TO CONTROL EXHAUST FAN.
- EMERGENCY FIRE SHUTOFF SWITCH. SWITCH TO CLOSE GAS LINE SOLENOID VALVE.
- PROVIDE LEGRAND EVOLUTION SERIES FLUSH MOUNT FLOOR BOX WITH TWO DUPLEX RECEPTACLES.
- PROVIDE 120V POWER TO ANSUL FIRE SYSTEM PANEL. PROVIDE 120V POWER TO GAS LINE SOLENOID SHUTOFF VALVE.
- PROVIDE A GFCI TYPE CIRCUIT BREAKER IN PANEL LD FOR DISHWASHER.

Donald L. Welch

Architect

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, SRAPHIC 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 JMITED REVIEW AND EVALUATION BY CLIENTS CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNEL ONLY IN ACCORDANCE WITH THIS NOTICE.

consultant:

 \bigcirc

 $\overline{}$

 $\overline{}$ \bigcirc

5

 ∞

 $\overline{}$

0

#2

900



project:

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

Salt Lake County, Utah

January 04, 2017

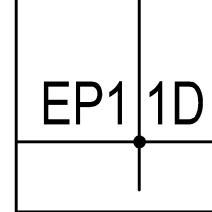
revisions PERMIT SET-December 28, 2016

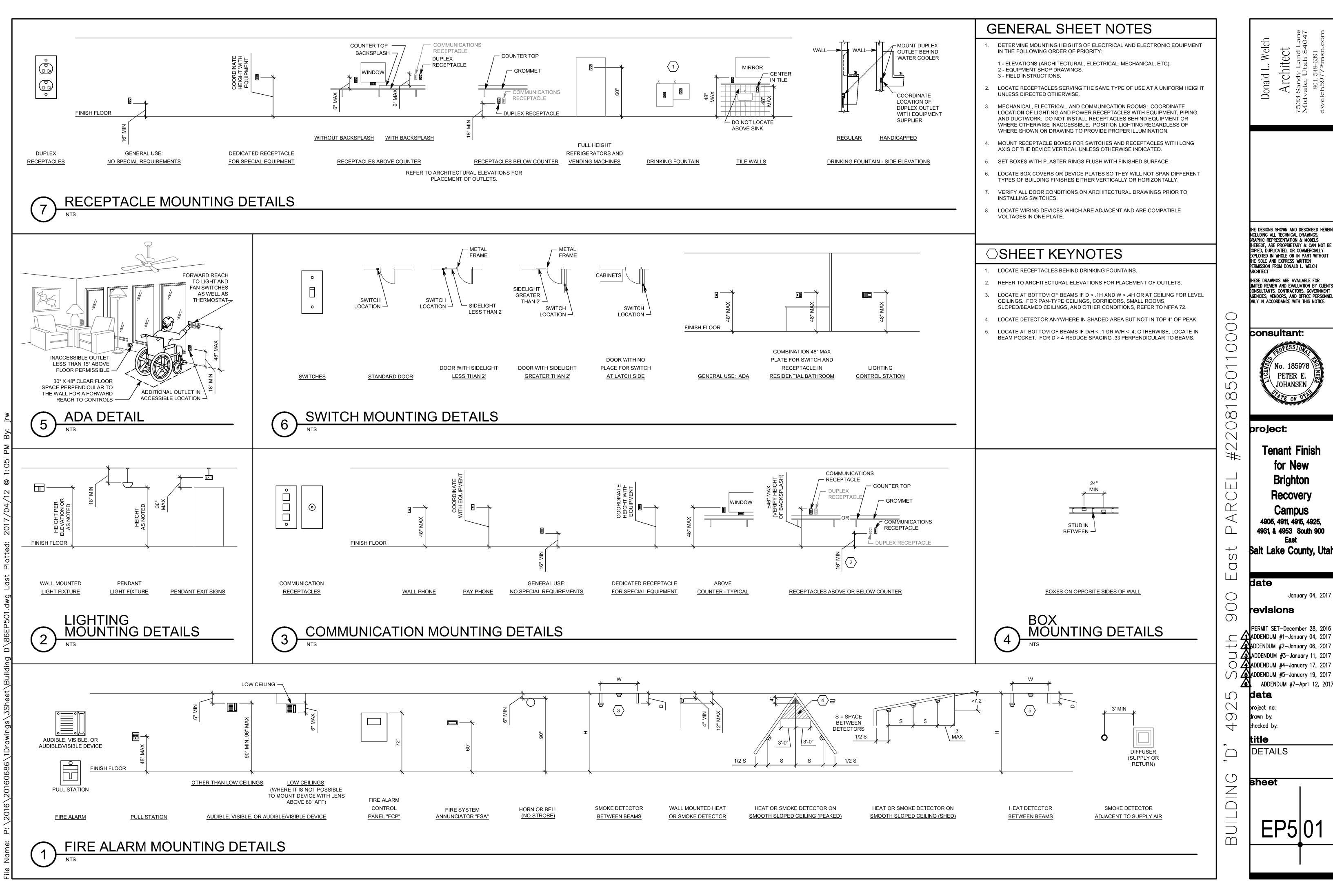
ADDENDUM #2-January 06, 2017

POWER PLAN -BUILDING 'D'

sheet

DING





he designs shown and described herei NCLUDING ALL TECHNICAL DRAWINGS RAPHIC REPRESENTATION & MODELS HEREOF, ARE PROPRIETARY & CAN NOT COPIED, DUPLICATED, OR COMMERCIALLY EXPLOITED IN WHOLE OR IN PART WITHOU THE SOLE AND EXPRESS WRITTEN PERMISSION FROM DONALD L. WELCH

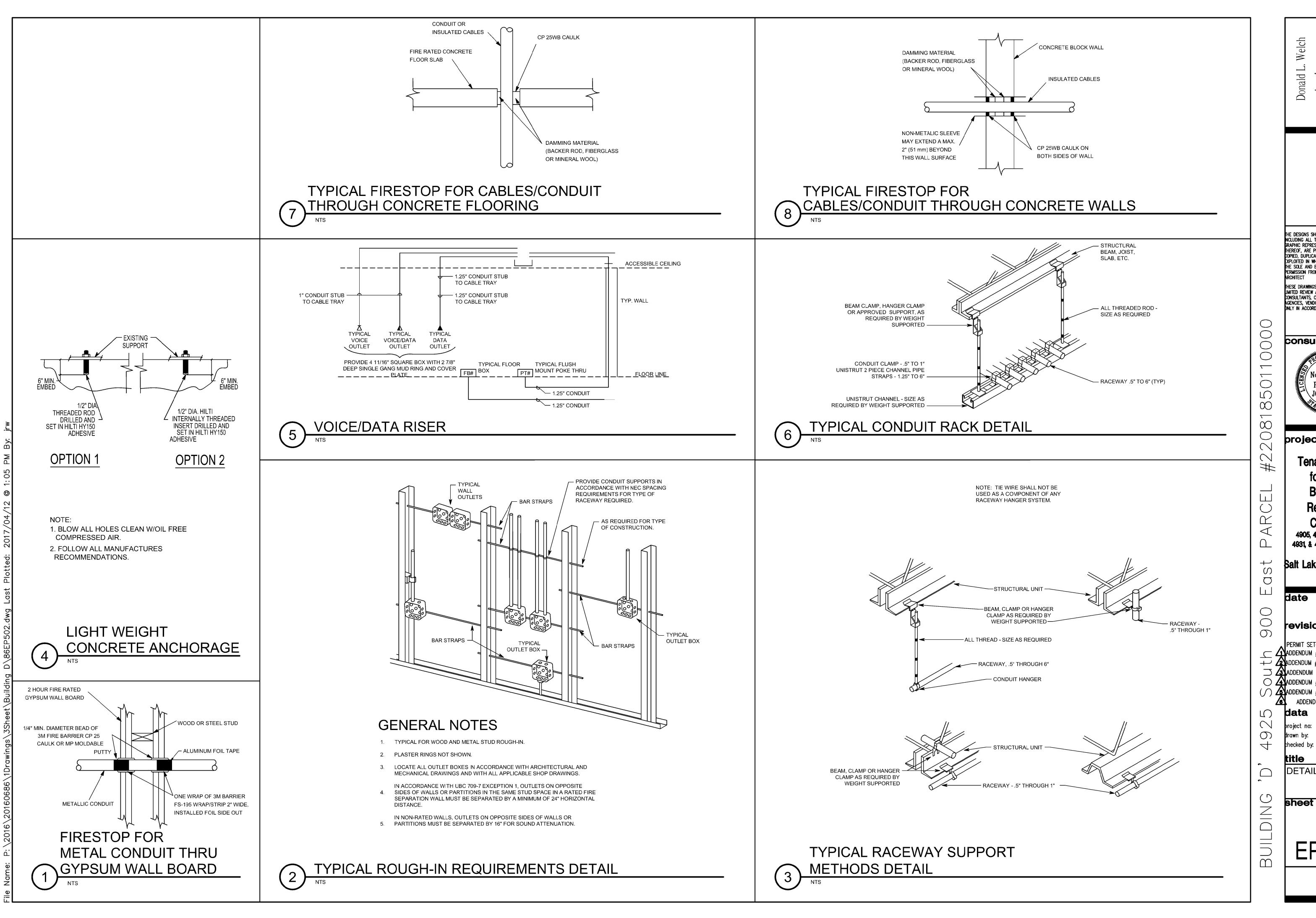
THESE DRAWINGS ARE AVAILABLE FOR LIMITED REVIEW AND EVALUATION BY CLIENTS CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNE DNLY IN ACCORDANCE WITH THIS NOTICE.



for New **Brighton** Recovery Campus 4905, 4911, 4915, 4925,

Salt Lake County, Utah

PERMIT SET-December 28, 201 ADDENDUM #1-January 04, 201 ADDENDUM #2-January 06, 201 ADDENDUM #5-January 19, 201



Donald L. Welch Architect

he designs shown and described herei NCLUDING ALL TECHNICAL DRAWINGS, RAPHIC REPRESENTATION & MODELS THEREOF, ARE PROPRIETARY & CAN NOT COPIED, DUPLICATED, OR COMMERCIALLY EXPLOITED IN WHOLE OR IN PART WITHOU THE SOLE AND EXPRESS WRITTEN PERMISSION FROM DONALD L. WELCH

THESE DRAWINGS ARE AVAILABLE FOR IMITED REVIEW AND EVALUATION BY CLIENTS CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNE ONLY 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

date

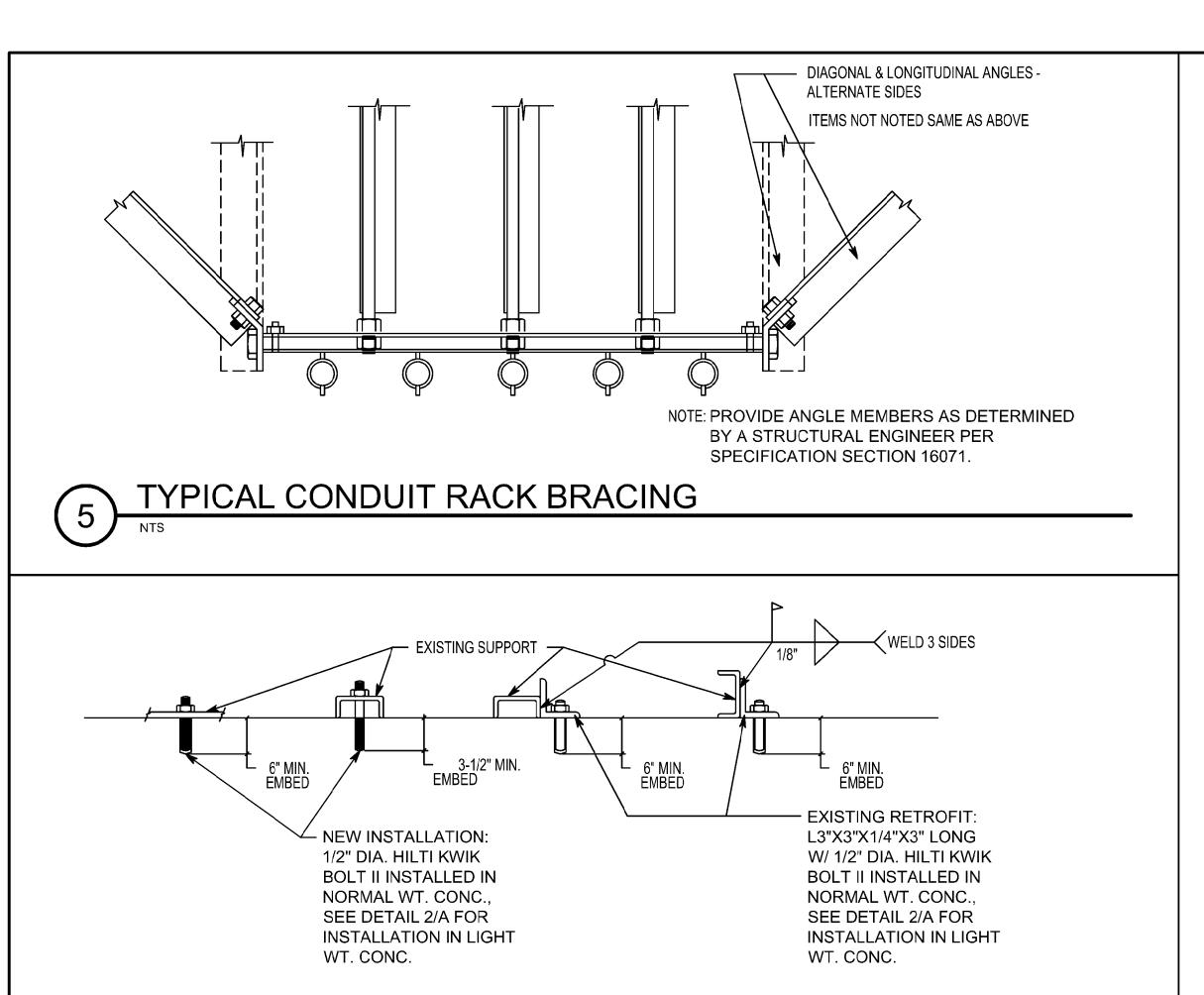
revisions

PERMIT SET-December 28, 2016 ADDENDUM #1-January 04, 2017 ADDENDUM #2-January 06, 2017 ADDENDUM #3-January 11, 2017 ADDENDUM #4-January 17, 2017 ADDENDUM #5-January 19, 2017

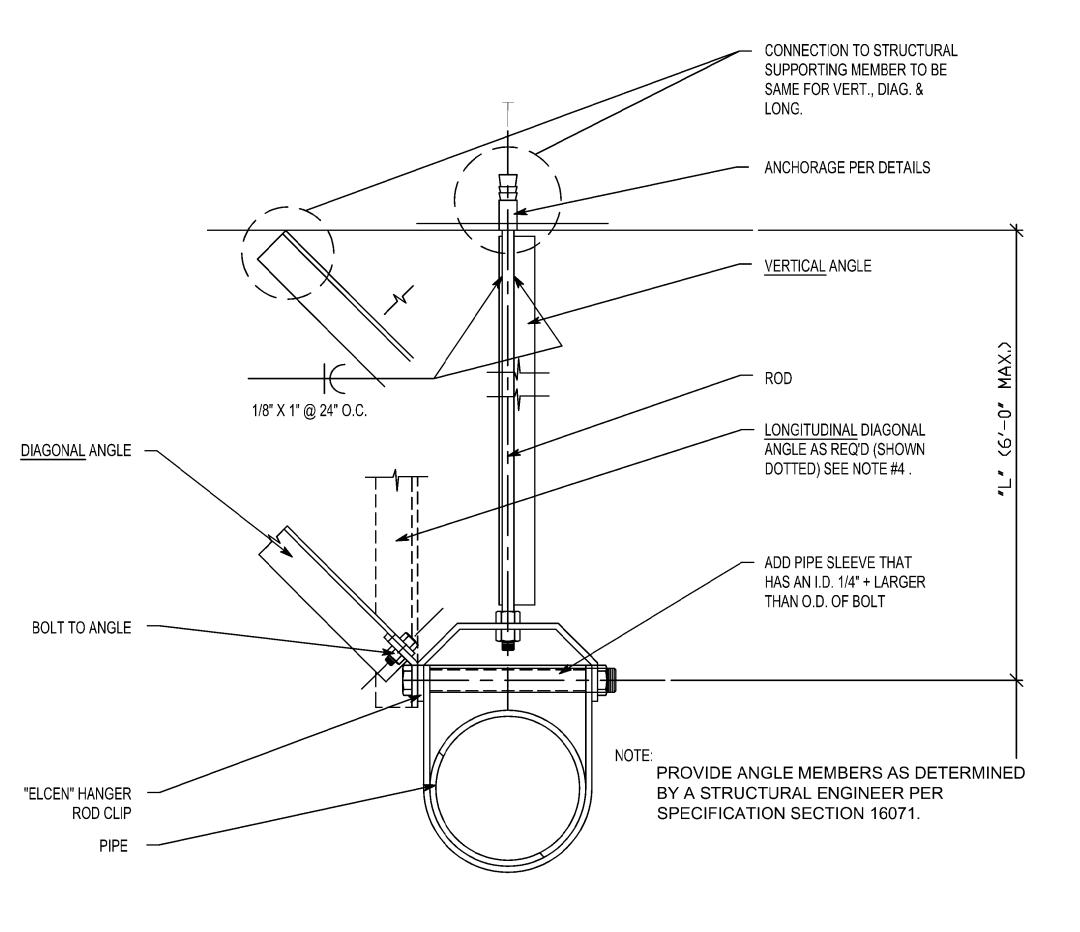
ADDENDUM #7-April 12, 2017 data

drawn by: checked by:

DETAILS



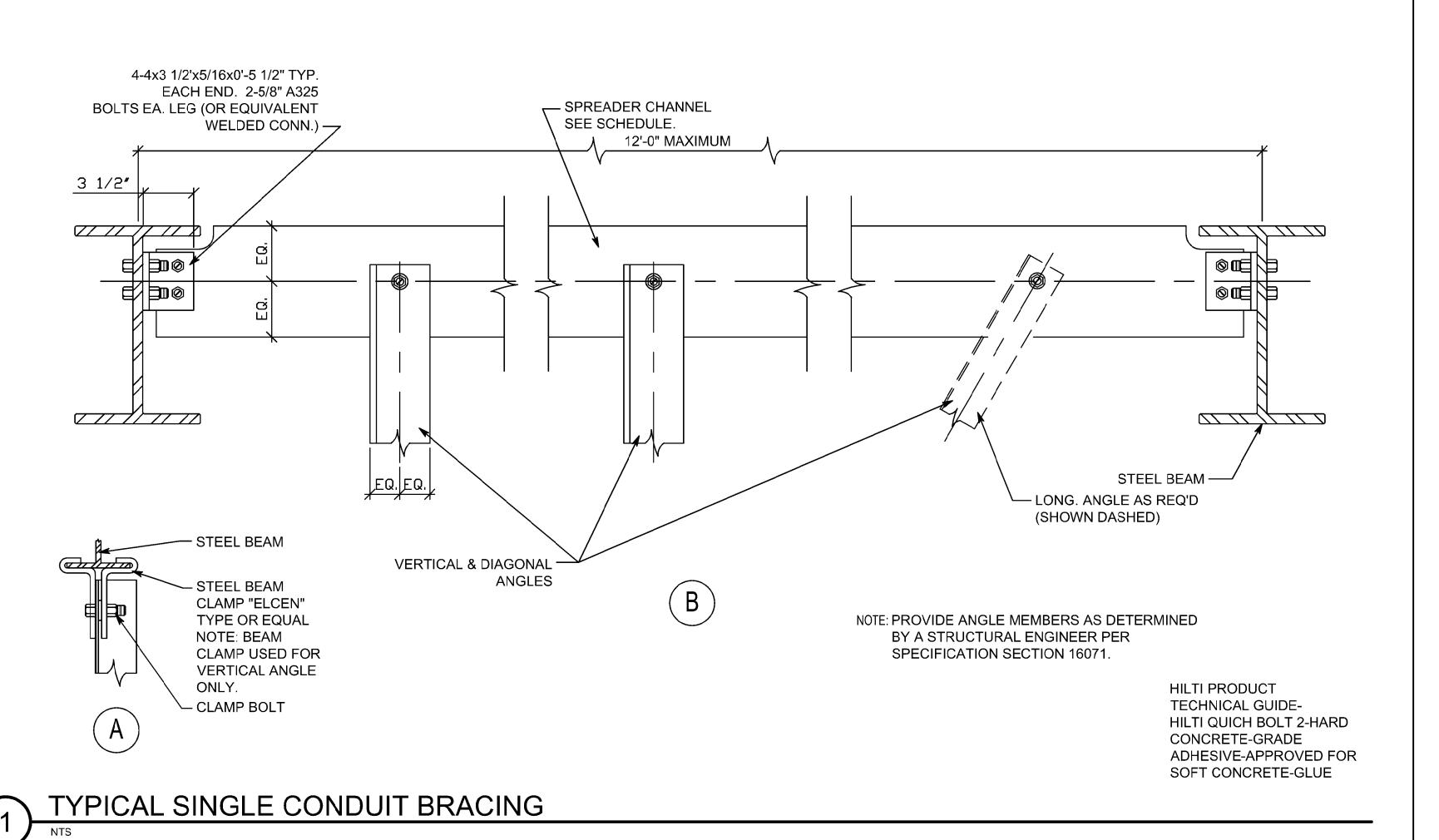
NORMAL WEIGHT CONCRETE ANCHORAGE

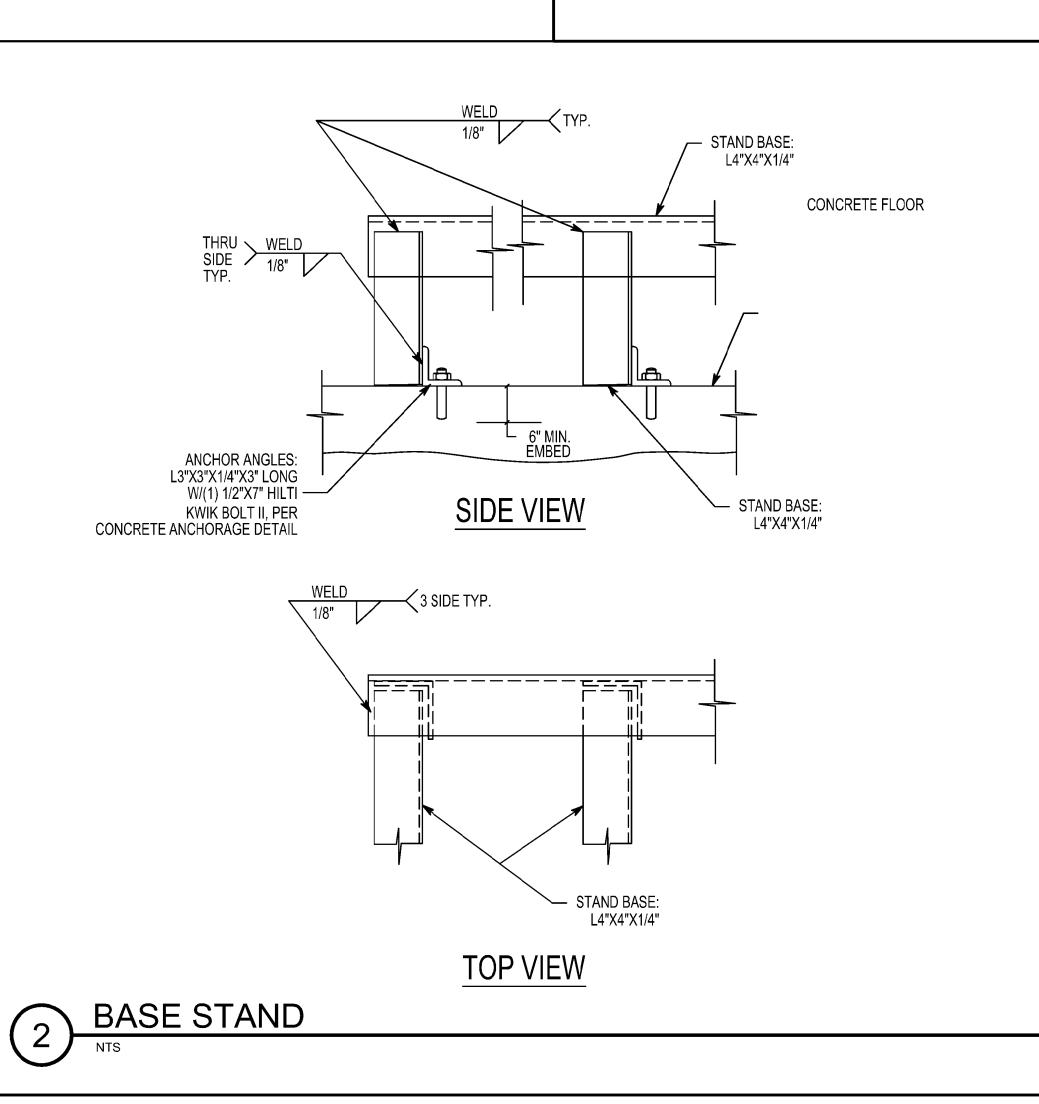


TYPICAL SINGLE CONDUIT BRACING

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.
- 9. 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.





Architect HE DESIGNS SHOWN AND DESCRIBED HEREI NCLUDING ALL TECHNICAL DRAWINGS, RAPHIC REPRESENTATION & MODELS THEREOF, ARE PROPRIETARY & CAN NOT E

Donald L. Welch

COPIED, DUPLICATED, OR COMMERCIALLY EXPLOITED IN WHOLE OR IN PART WITHOUT THE SOLE AND EXPRESS WRITTEN PERMISSION FROM DONALD L. WELCH

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.

consultant:



project:

 $\overline{}$

 $\overline{}$

 Ω

 ∞

 $\overline{}$

 ∞

 \sim

 \triangleleft

+

 \Box

 \bigcirc

 \bigcirc

 \sim \bigcirc

4

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

Salt Lake County, Utah

date

revisions

January 04, 2017

PERMIT SET-December 28, 2016 ADDENDUM #1-January 04, 2017

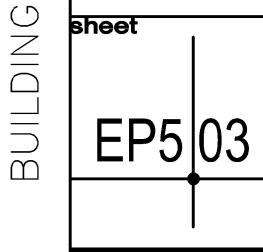
ADDENDUM #2-January 06, 2017

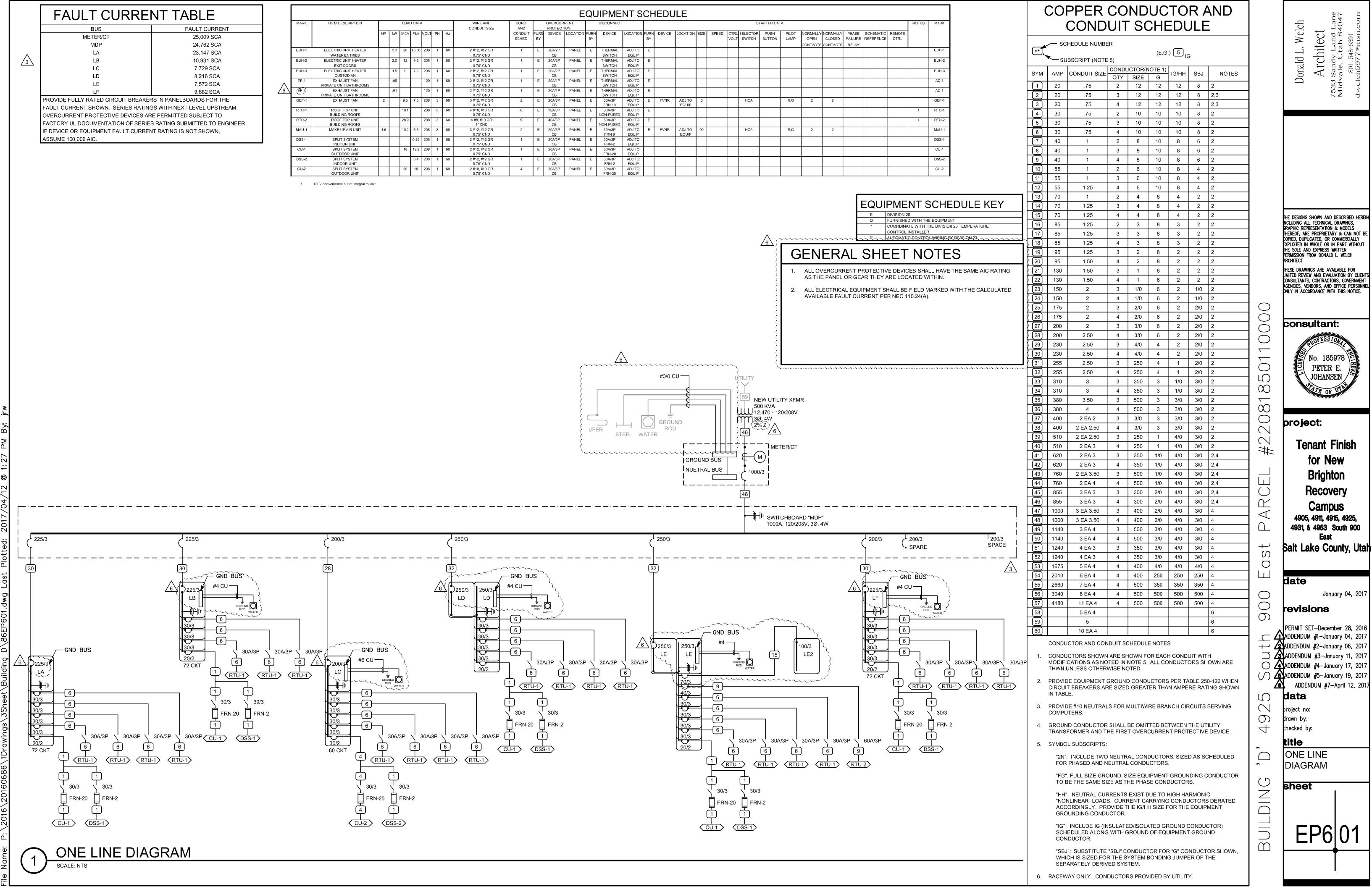
ADDENDUM #3-January 11, 2017 ADDENDUM #4-January 17, 2017 () ADDENDUM #5-January 19, 2017 ADDENDUM #7-April 12, 2017

data

drawn by: checked by:

DETAILS





PERMIT SET-December 28, 2016

						DISTRIBUTI	Ã	1 P	$\overline{\widehat{A}}$) ÎÊÎ	BC	DARD "MDP"						
VOLT	rs/PHAS	SE/WIF	 RE:			MAIN SIZE & TYPE:	LOCA	ATION:		ميي		AIC RATING: NOTES:						$\overline{}$
120/2	.08 V, 3	PH 4 V	NIRE		,	1000 AMP MAIN LUGS	BUILF	DING A			,	30,000 AIC						J
ACCF	ESSORII	ES:	IDEN	TIFICA	TION, /	GROUNDING BAR, INSULATED GROU	JND BA	۰R										
CKT	ОСР	,	L	OAD (k\	VA)	PANEL / EQUIPMENT	LCL	PH	ASE LC	JAD	LCL	PANEL / EQUIPMENT	LC	DAD (kV	/A)	OCP	,	CKT
NO	AMP	POLE	LTG	СО	PWR	1	kVA	Α	В	С	kVA		LTG	СО	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
	[]	<u> </u>	1.5	7.9	18.5	-	28.2		54.4		27.3	-	2.9	10.1	13.6		<u> </u>	
	[<u>-</u> '	0.0	4.8	20.8	-	25.6			58.7	33.9	-	3.0	9.6	20.5	_	-	<u> </u>
3	200	3	1.3	5.9	16.9	LB	24.4	57.8	<u> </u>		34.1	LE	1.7	9.8	22.2	200	3	4
	<u> </u>	<u> </u>	1.6	6.2	14.6	-	22.8	'	60.3		38.3	-	1.5	10.2	26.2	_	-	
	<u> </u>	-	0.0	6.2	20.6	-	26.8		<u> </u>	61.0	34.5	-	1.0	7.9	25.3	-	<u> </u>	
5	200	3	1.5	9.2	10.9	LC	22.0	48.3	<u> </u>	<u> </u>	27.2	LF	1.8	6.2	18.7	200	3	6
	<u> </u>	<u>-</u> '	1.2	6.6	13.4	-	21.5	'	48.4		27.6	-	1.6	6.5	19.1	_	-	<u> </u>
	<u> </u>	<u>-</u> '	1.4	6.8	11.7	-	20.3	'	<u> </u>	46.3	26.4	-	0.0	7.5	18.9		/	<u> </u>
7	200	3				SPARE	0.0	0.0			0.0	SPACE					3	8
	<u> </u>	'				-	0.0	'	0.0	<u> </u>	0.0	-		<u> </u>		-	<u> </u>	
	[-]	<u>-</u> '				-	0.0	'		0.0	0.0	-					<u> </u>	<u> </u>
TOTA	،LS:					CONNECTED kVA PER P	HASE	166	163	166			CONN	IECTED	ATOT C	∖L kVA	495	
						CONNECTED AMPS PER P	² HASE	1381	1360	1383		CONNECTED AVE	RAGE	AMPS	PER P	'HASE	1375	
NEC '	JIVERS	3IFIED	LOAD	CALC	ULATIO	NS												
i	L'	.IGHTIN	NG 27k	kVA @1	125% =	33 kVA	ALL	. OTHE	R LOA'	DS @10	00% =	328 kVA	Dľ	IVERSI	FIED T	OTAL '	κVA =	436
	RECEP	TACLF	£S 10∤	(VA @1	100% =	10 kVA	25°	% OF L	.ARGE	ST MOT	ΓOR =	0 kVA	AVER/	AGE AN	MPS PF	£R PH/	ASE =	1212
1	REM/	AINDE	R 1301	kVA @	50% =	65 kVA												

	S/PHAS					PANEL SIZE & TYPE:		SIZE 8		:		LOCATION:		ATING	:	NOTE	S:	
	08 V, 3					22" W x 6" D, BOLT-ON		MP MA					42,00	0 AIC				
	SSORI					Y, IDENTIFICATION, GROUNDING BA						T	1					
CKT	OCP			AD (kV		DESCRIPTION	LCL		ASE LC	1	LCL	DESCRIPTION		OAD (k\		OCP		CKT
NO		POLE		CO	PWR		kVA	Α	В	С	kVA		LTG		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
	-	-			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		0.8		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		<u> </u>	ı	ı İ		CONNECTED kVA PER		27	 28	26	1 2.0	1	CONN	IECTED	TOTA		80	
						CONNECTED AMPS PER			232	213		CONNECTED AV						
NEC	DIVERS																	
				VA @12		4 kVA		OTHE		_		57 kVA		IVERSI				77
	RECEF	PTACLI	ES 10k	VA @10	00% =	10 kVA	259	% OF L	ARGE	ST MO	TOR =	2 kVA	AVER	AGE A	MPS PE	R PHA	SE =	215
	REN	JAIND	ER 10k	VA @ 5	50% =	5 kVA												

		SE/WIR PH 4 V				PANEL SIZE & TYPE: 22" W x 6" D, BOLT-ON		SIZE 8 MP MA		:		LOCATION:	AIC R	RATING 0 AIC	i:	NOTE	S:
	SSORI			L DIRE	CTOR	Y, IDENTIFICATION, GROUNDING B	AR, INSI	JLATEI	D GRO	UND B	AR, SL	JBFEED LUGS	<u> </u>				
CKT	OCP		LO	AD (k\	′A)	DESCRIPTION	LCL	PH/	ASE LO)AD	LCL	DESCRIPTION	LC	DAD (k\	√A)	OCP	
NO	AMP	POLE	LTG	CO	PWR		kVA	Α	В	С	kVA		LTG	co	PWR	AMP	POLE
1	20	1	1.3			LIGHTING	1.6	2.6			1.3	DRYER LAUNDRY B125			1.3	30	2
3	20	1	1.3			LIGHTING	1.6		2.6		1.3	-			1.3	-	-
5	30	2			1.3	DRYER LAUNDRY B101	1.3			1.7	0.4	CO LAUNDRY B125		0.4		20	1
7	-	-			1.3	-	1.3	2.3			1.0	WASHER B125		1.0		20	1
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
11	20	1		1.0		WASHER LAUNDRY B101	1.0			2.3	1.3	WH/PUMP/FIRE COMP		1.3		20	1
13	20	1		8.0		CO ROOMS B101, B102	0.8	2.0			1.2	ROOM B119		1.1	0.1	20	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
17	20	1		1.1	0.1	ROOM B108	1.2			2.2	1.0	REFRIGERATOR B129		1.0		20	1
19	20	1		1.1	0.1	ROOM B111	1.2	1.7			0.5	CO DINING B127		0.5		20	1
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		8.0		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	-	-
27	50	2			2.4	RANGE B115	2.4		3.4		1.0	GARBAGE DISP.			1.0	20	1
29	-	-			2.4	-	2.4			3.4	1.0	DISHWASHER B129			1.0	20	1
31	20	1		0.2		CO KITCHEN B115	0.2	0.4			0.2	CO KITCHEN B129		0.2		20	1
33	20	1			1.0	DISHWASHER B115	1.0		2.9		1.9	RTU-1			1.9	30	3
35	20	1			1.0	GARBAGE DISP. B115	1.0			2.9	1.9	-			1.9	-	-
37	30	3			1.9	RTU-1	1.9	3.8			1.9	-			1.9	-	-
39	-	-			1.9	-	1.9		2.9		1.0	EUH-2			1.0	20	2
41	-	-			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			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
ГОТА	LS:					CONNECTED kVA PER	PHASE	24	22	26		•	CONN	IECTE	TOT <i>A</i>	L kVA	73
						CONNECTED AMPS PER			187	221		CONNECTED AV					
NEC [SIFIED LIGHTI						OTHE								OTAL I	

						^	(~~	<u>~~</u>	<u> </u>	~	<u>/\</u>						
						6	\P/	NA AN	EL	<u>"L</u>	C "}	$\stackrel{\frown}{2}$						
/OL7	TS/PHA	SE/WIF	RE:			PANEL SIZE & TYPE:	MAIN	SIZE 8	TYPE	:		LOCATION:	AIC R	ATING	:	NOTE	S:	
120/2	208 V, 3	3 PH 4 V	VIRE			22" W x 6" D, BOLT-ON	200 A	MP MA	IN CB				10,000) AIC				
CCI	ESSOR	IES:	PANEL	DIRE	CTOR	Y, IDENTIFICATION, GROUNDING B	BAR, INS	ULATE	D GRO	UND B	AR, SL	IBFEED LUGS						
CKT	OCF)	LO	AD (k\	/A)	DESCRIPTION	LCL	PH	ASE LO	DAD	LCL	DESCRIPTION	LC	AD (k\	/A)	OCP		СКТ
NO	AMP	POLE	LTG	CO	PWR		kVA	Α	В	С	kVA		LTG	CO	PWR	AMP	POLE	NO
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	22
23	20	1		0.2		CO BREAK ROOM C113	0.2			2.1	1.9	<u>-</u>			1.9	-	-	24
25	20	1		1.0		CO MEDS C112	1.0	2.9			1.9	-			1.9	-	-	26
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	<u>-</u>			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	-	-	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	<u> </u>		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	52
53	20	1				DRINKING FOUNTAIN	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		<u> </u>	<u> </u>	20	1	60
TOT/	ALS:					CONNECTED kVA PER			22	21			CONN				64	
						CONNECTED AMPS PER	PHASE	177	182	179	ARC	CONNECTED A	VERAGE	AMPS	PER P	HASE	179	
1EC			LOAD										_					
			ING 4kV	-		5 kVA		OTHE		-		36 kVA				OTAL I		58
	RECE	PTACLI	ES 10k∖ ER 14k∖	_		10 kVA 7 kVA	25'	% OF L	ARGES	ST MO	TOR =	0 kVA	AVERA	AGE AI	MPS PI	ER PHA	SE =	162

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 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

Donald L. Welch

Architect Sandy Land L vale, Utan 840

8501 #2208 Edst 900

 $\overline{}$

January 04, 2017

revisions

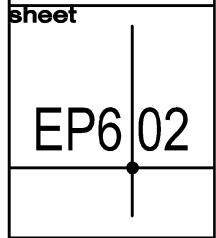
PERMIT SET—December 28, 2016
ADDENDUM #1—January 04, 2017
ADDENDUM #2—January 06, 2017
ADDENDUM #3—January 11, 2017
ADDENDUM #4—January 17, 2017
ADDENDUM #5—January 19, 2017
ADDENDUM #7—April 12, 2017

data

checked by:

BUILDING

PANEL SCHEDULES



						6	P	ÀÑ	EL	<u>"L</u>	Ď")	3						
	S/PHAS 08 V, 3					PANEL SIZE & TYPE: 22" W x 6" D, BOLT-ON		SIZE 8 MP MA		:		LOCATION:	AIC R.		:	NOTE	S:	
ACCE	SSORI	ES:	PANE	L DIRE	CTOR	Y, IDENTIFICATION, GROUNDING BA	R, INS	JLATE	D GRO	UND B	AR, SL	JBFEED LUGS						
CKT	OCP		LO	AD (kV	'A)	DESCRIPTION	LCL	PH	ASE LO	DAD	LCL	DESCRIPTION	LO	AD (k\	/A)	OCP		CKT
NO	AMP	POLE	LTG	co	PWR	1	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	1.0	2.0		1.0	DRINKING FOUNTAIN		1.0		20	1	16
17	20	1		1.3		FREEZER D105	1.3		2.0	2.3	1.0	CO WORKOUT RM D113		1.0		20	1	18
19	20	1		1.0	1.5	KITCHEN HOOD	1.5	2.5		2.0	1.0	CO WORKOUT RM D113		1.0		20	1	20
21	30	2			1.7	SOFT SERVE MACHINE	1.7	2.0	2.3		0.6	CO WORKOUT RM D113		0.6		20	1	22
23	- 50				1.7	OOI I GERVE WAOI IIIVE	1.7		2.0	2.5	0.8	FIRE CO/FIRE COMP D114A		0.2	0.6	20	1	24
25	20	1		0.6	1.7	CO KITCHEN D101	0.6	1.4		2.0	0.8	CO OFFICE/STOR D115		0.8	0.0	20	1	26
	20	1		1.0		CO KITCHEN D101	1.0	1.4	1.8		0.8	CO YOGA STUDIO D114		0.8		20	1	28
27 29	50	2		1.0	4.0	DISHWASHER	4.0		1.0	5.0	1.0	CO OFFICE D118		1.0		20	1	30
	50					DISTIVASTIER		4.0		5.0							1	
31	-	-		0.0	4.0	- CANDAGOLIOALAD EDIDOE	4.0	4.8	4.4		0.8	CO MUSIC ROOM D117		0.8	-	20	1	32
33	20	1		0.6		SANDWICH/SALAD FRIDGE.	0.6		1.4	4.4	0.8	CO ART ROOM D116		0.8		20	4	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			1.9	-			1.9	-	-	50
51	-	-			0.4	-	0.4		2.3		1.9	-			1.9	-	-	52
53	30	3			1.9	RTU-1	1.9			2.9	1.0	EUH-2			1.0	20	2	54
55	-	-			1.9	-	1.9	2.9			1.0	-			1.0	-	-	56
57	-	-			1.9	-	1.9		3.8		1.9	RTU-1			1.9	30	3	58
59	20	1		1.8		ICE MAKER	1.8			3.7	1.9	-			1.9	-	-	60
61	20	1			1.5	ANSUL FIRE PANEL	1.5	3.4			1.9	-			1.9	-	-	62
63	20	1	0.2			EGRESS LIGHTING	0.3		1.9		1.7	EUH-1			1.7	20	2	64
65	20	1	1.5			BLDG A & B CANOPY LTG	1.9			3.2	1.7	-			1.7	-	-	66
67	20	1	1.5			BLDG E & F CANOPY LTG	1.9	2.5			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	-	1	74
75	20	2			0.8	EUH-3	0.8		1.8		1.0	EUH-2			1.0	20	1	76
77	-	-			0.8	-	0.8			1.8	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	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	84
TOTA						CONNECTED kVA PER F	PHASE	33	28	34			CONN	ECTE	TOTA	L kVA	95	
						CONNECTED AMPS PER F	PHASE	275	231	282		CONNECTED AV	ERAGE	AMPS	PER P	HASE	263	
NEC [DIVERS																	
				/A @12						DS @1			DI	VERS	FIED T	OTAL I	<va =<="" td=""><td>86</td></va>	86
	RECEP			_		10 kVA	259	% OF L	ARGE	ST MO	TOR =	0 kVA	AVERA	AGE A	MPS P	ER PHA	ASE =	240
	REM	1AINDE	R 21k\	/A @ 5	50% =	10 kVA												

/OLT	S/PHA	SE/WIR	E:			PANEL SIZE & TYPE:	MAIN	SIZE 8	k TYPE	:		LOCATION:	AIC R	ATING	:	NOTE	S:	
120/20	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				
ACCE	SSOR	IES:	PANE	L DIRE	CTOR	Y, IDENTIFICATION, GROUNDING B.	AR, INSI	JLATE	D GRO	UND B	AR, SU	JBFEED LUGS						
СКТ	OCP)	LO	AD (k\		DESCRIPTION	LCL	PH.	ASE LO	DAD	LCL	DESCRIPTION	LC	AD (k\	/A)	OCP	1	СКТ
NO	AMP	POLE	LTG	CO	PWR		kVA	Α	В	С	kVA		LTG	CO	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	-	-			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	1	-			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		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
ОТА	LS:					CONNECTED kVA PER	PHASE	6	5	6			CONN	ECTE	TOTAL	L kVA	17	
						CONNECTED AMPS PER	PHASE	53	45	46		CONNECTED AV	VERAGE	AMPS	PER PI	HASE	48	
IEC [DIVERS	SIFIED	LOAD (CALCL	JLATIO	NS												
		LIGHTI	NG 0k\	/A @1	25% =	0 kVA	ALL	OTHE	R LOAI	DS @1	00% =	13 kVA	DI	VERSI	FIED TO	OTAL	«VA =	17
		PTACL		_		5 kVA				ST MO		0 kVA	AVERA	AGE AI	MPS PE	R PHA	ASE =	48
	RF	MAIND	FR 0k\	/A @	50% =	0 kVA												

				LIGHTING	CONTROL PANEL	SCHEDULE				
LX										
			AUTOMA	ATI¢ CONTROL			OVERRIDE CON	TROL 01	THER	
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

7.	/OI TS	S/PHA	SE/WIR	·F·			PANEL SIZE & TYPE:	<u> </u>	SIZE &	EL		<u>~~</u>	LOCATION:	AIC P	ATING:	. [NOTE	:S·	
			PH 4 V				22" W x 6" D, BOLT-ON		MP MA				LOCATION.	10,000		.	NOTE	.S.	
		SSOR			I DIRE		Y, IDENTIFICATION, GROUNDING B.				IIND B	AR SU	REFERINGS	1 10,000	<i>3</i> / (10				
	CKT	OCP			AD (kV		DESCRIPTION	LCL		ASE LC		LCL	DESCRIPTION	Tic	AD (kV	(A)	OCP	ı	СКТ
			POLE	LTG		PWR	52 651.11 11611	kVA	A	В	C	kVA	52 551 1151.	LTG				POLE	NO
H	1	20	1	1.2			LIGHTING	1.5	2.2		<u> </u>	1.0	WASHER LAUNDRY E127	1	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
F	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		1.0		WASHER LAUNDRY E101	1.0	2.2			1.2	ROOM E122		1.1	0.1	20	1	14
	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	16
	17	20	1		0.2	0.8	WH/PUMP/CO STORAGE	1.0			2.2	1.2	ROOM E118		1.1	0.1	20	1	18
	19	20	1		1.1	0.1	ROOM E107	1.2	2.1			0.9	CO FAMILY ROOM E131		0.9		20	1	20
	21	20	1		1.1	0.1	ROOM E110	1.2		1.8		0.6	CO DINING ROOM E130		0.6		20	1	22
	23	20	1		1.1	0.1	ROOM E111	1.2			2.2	1.0	REFRIGERATOR E132		1.0		20	1	24
	25	20	1		1.0		CO DINING E113	1.0	1.2			0.2	CO KITCHEN E132		0.2		20	1	26
	27	20	1		0.6		CO FAMILY E114	0.6		3.0		2.4	RANGE E132			2.4	50	2	28
	29	20	1		1.0		REFRIGERATOR E115	1.0			3.4	2.4	-			2.4	-	-	30
	31	50	2			2.4	RANGE E115	2.4	3.4			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
L	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
L	45	-	-			1.9	-	1.9		3.8		1.9	-			1.9	-	-	46
L	47	30	3			1.9	RTU-1	1.9			3.8	1.9	RTU-2			1.9	40	3	48
L	49	-	-			1.9	-	1.9	3.8			1.9	-			1.9	-	-	50
L	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	-	-			8.0	-	0.8	1.8			1.0	-			1.0	-	-	56
	57	20	2			1.0	EUH-2	1.0		1.8		0.8	EUH-3			0.8	20	2	58
-	59	-	-			1.0	-	1.0			1.8	8.0	-			8.0	-	-	60
-	61	20	1	0.5			EGRESS LIGHTS	0.6	0.9			0.4	KITCHEN ISLAND CO	1	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	1			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	0.0	SPARE	-			20	1	72
_	73	20	1				SPARE	0.0	0.0	0.0		0.0	SPARE	-			20	1 1	74
_	75	20	1				SPARE	1.7		0.0		0.0	SPARE	+			20	1 1	76
_	77	20	1				SPARE	1.7	0.1		0.0	0.0	SPARE	-	4 -	4.0	20	1	78
	79	20	1				SPARE	0.0	6.4	0.5		6.4	LE2	-	1.5	4.9	70	3	80
_	81	20	1				SPARE	0.0		8.5	<i></i>	8.5	<u>-</u>		5.1	3.4	-	-	82
_	83	20	1				SPARE CONNECTED WAS DED.	0.0	24	20	5.5	5.5	<u>-</u>			4.5	-	100	84
1	OTAL	_ა:					CONNECTED KVA PER CONNECTED AMPS PER		34 281	38 316	34 285		CONNECTED AV			TOTA PER PI			
N	VEC D	IVERS	SIFIED	LOAD	CALCL	JLATIO			-									-	
			LIGHTI				5 kVA	ALL	OTHE	R LOAE	OS @10	00% =	74 kVA	DI	VERSI	FIED T	OTAL I	κVA =	98
	F		TACLE		_		10 kVA		% OF L		_		0 kVA			/IPS PE			
					_	50% =	9 kVA	_3						u					

VOLT	S/PHA	SE/WIR	E:			PANEL SIZE & TYPE:	MAIN	SIZE 8	TYPE:	:		LOCATION:	AIC R	ATING	i:	NOTE	S:	
120/2	08 V, 3	PH 4 W	/IRE			22" W x 6" D, BOLT-ON	225 A	МР МА	IN CB			<u>/6</u> \	10,000	O AIC				
ACCE	SSORI	ES:	PANE	L DIRE	CTOR'	Y, IDENTIFICATION, GROUNDING B	AR, INSI	JLATEI	O GRO	UND B	AR							
CKT	OCP		LO	AD (k\	/A)	DESCRIPTION	LCL	PH/	ASE LC	AD	LCL	DESCRIPTION	LO	AD (k\	/A)	OCP		C
NO	AMP	POLE	LTG	CO	PWR		kVA	Α	В	С	kVA		LTG	CO	PWR	AMP	POLE	Ν
1	20	1	1.5			LIGHTING	1.9	2.8			1.3	DRYER LAUNDRY F127			1.3	30	2	:
3	20	1	1.6			LIGHTING	2.0		2.9		1.3	-			1.3	-	-	4
5	30	2			1.3	DRYER LAUNDRY F101	1.3			2.9	1.6	ROOMS F125,F126		1.4	0.2	20	1	(
7	-	-			1.3	-	1.3	2.3			1.0	WASHER LAUNDRY F127		1.0		20	1	
9	20	1		1.4	0.2	ROOMS F103,F104	1.6		2.0		0.4	CO LAUNDRY F127		0.4		20	1	1
11	20	1		1.0		WASHER LAUNDRY F101	1.0			2.2	1.2	ROOM F119		1.1	0.1	20	1	1
13	20	1		0.6		CO ROOMS F101,F102	0.6	1.8			1.2	ROOM F122		1.1	0.1	20	1	1
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	1
17	20	1		1.1	0.1	ROOM F107	1.2			2.1	0.9	CO DINING F130		0.9		20	1	1
19	20	1		0.6	0.6	WH/PUMP/FIRE COMP.	1.2	1.8			0.6	CO FAMILY F131		0.6		20	1	2
21	20	1		1.1	0.1	ROOM F111	1.2		2.4		1.2	ROOM F118		1.1	0.1	20	1	2
23	20	1		0.6		CO DINING F113	0.6			1.6	1.0	REFRIGERATOR F132		1.0		20	1	2
25	20	1		0.9		CO FAMILY F114	0.9	3.3			2.4	RANGE F132			2.4	50	2	2
27	20	1		1.0		REFRIGERATOR F115	1.0		3.4		2.4	-			2.4	-	-	2
29	50	2			2.4	RANGE F115	2.4			3.4	1.0	GARBAGE DISP. F132			1.0	20	1	3
31	-	-			2.4	-	2.4	3.4			1.0	DISHWASHER F132			1.0	20	1	3
33	20	1			1.0	GARBAGE DISP. F115	1.0		1.2		0.2	KITCHEN CO F132		0.2		20	1	3
35	20	1			1.0	DISHWASHER F115	1.0			2.9	1.9	RTU-1			1.9	30	3	3
37	20	1		0.2		CO KITCHEN F115	0.2	2.1			1.9	-			1.9	-	-	3
39	30	3			1.9	RTU-1	1.9		3.8		1.9	-			1.9	-	-	4
41	-	-			1.9	-	1.9			3.8	1.9	RTU-1			1.9	30	3	4
43	-	-			1.9	-	1.9	3.8			1.9	-			1.9	-	-	4
45	30	3			1.9	RTU-1	1.9		3.8		1.9	-			1.9	-	-	4
47	-	-			1.9	-	1.9			2.9	1.0	EUH-2			1.0	20	2	4
49	-	-			1.9	-	1.9	2.9			1.0	-			1.0	-	-	5
51	20	2			1.7	EUH-1	1.7		2.5		8.0	EUH-3			0.8	20	2	5
53	-	-			1.7	-	1.7			2.5	8.0	-			8.0	-	-	5
55	20	2			1.0	EUH-2	1.0	1.3			0.4	EGRESS LIGHTS	0.3			20	1	5
57	-	-			1.0	-	1.0		2.7		1.7	CU-1/DSS-1			1.7	20	2	5
59	20	1		0.4		KITCHEN ISLAND CO	0.4			2.1	1.7	-			1.7	-	-	6
61	20	1		8.0		RTU CO'S	0.8	1.2			0.4	KITCHEN ISLAND CO		0.4		20	1	6
63	20	1				SPARE	0.0		1.0		1.0	SMOKE DETECTORS			1.0	20	11	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	LS:					CONNECTED kVA PER	PHASE	27	27	26			CONN	ECTE	ATOT C	L kVA	80	
						CONNECTED AMPS PER	PHASE	223	226	220		CONNECTED AVE	RAGE	AMPS	PER P	HASE	223	

25% OF LARGEST MOTOR =

0 kVA

AVERAGE AMPS PER PHASE = 211

RECEPTACLES 10kVA @100% =

REMAINDER 10kVA @ 50% =

10 kVA

5 kVA

Architect THE DESIGNS SHOWN AND DESCRIBED HEREIN THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, RAPHIC 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 JMITED REVIEW AND EVALUATION BY CLIENTS CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNEL ONLY IN ACCORDANCE WITH THIS NOTICE.

consultant:

Donald L. Welch



project:

501

 $\overline{}$

208

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 #1-January 04, 2017

ADDENDUM #2-January 06, 2017

ADDENDUM #3-January 11, 2017

ADDENDUM #4-January 17, 2017

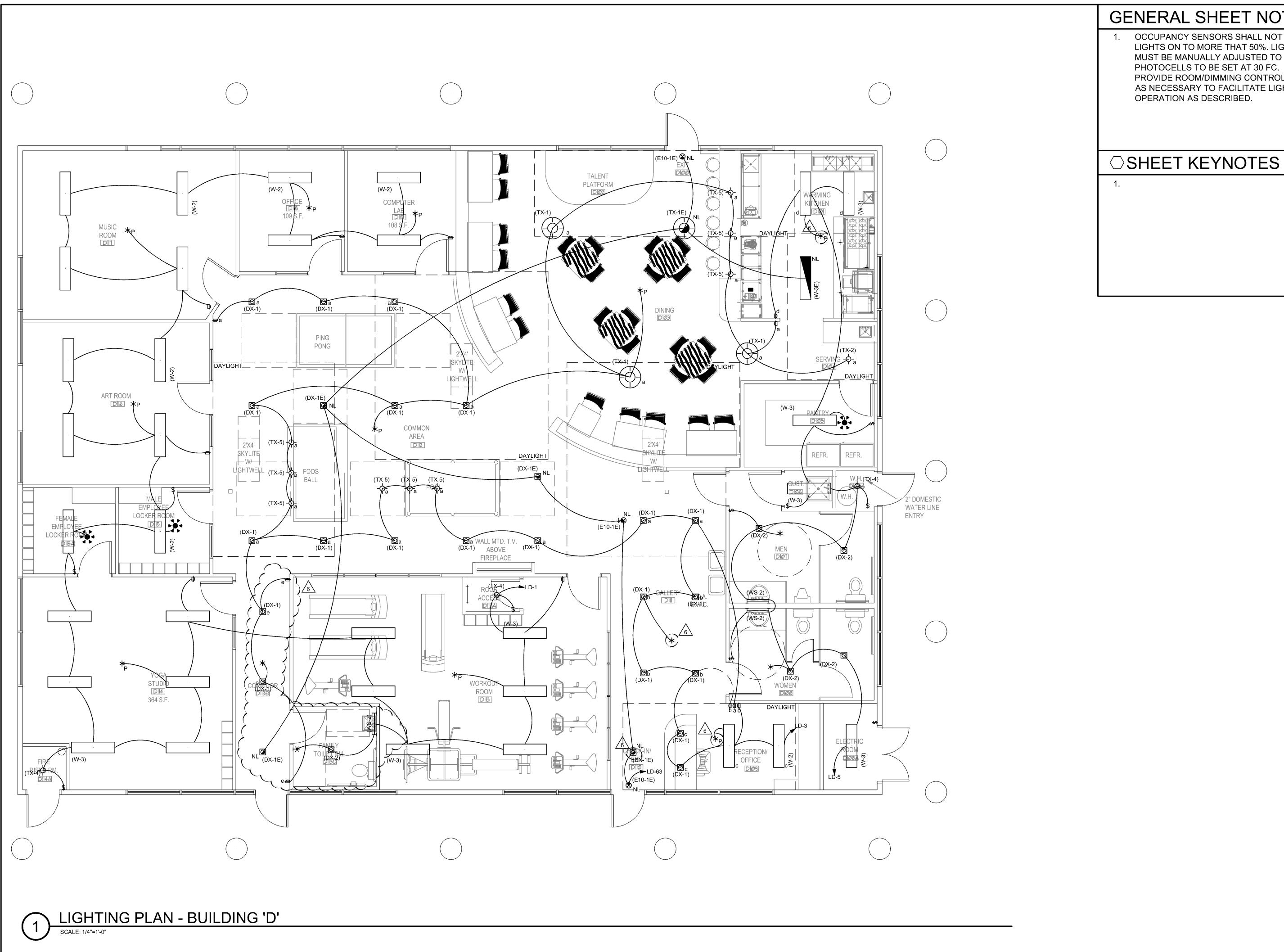
ADDENDUM #5-January 19, 2017

ADDENDUM #7-April 12, 2017

checked by:

PANEL

SCHEDULES



GENERAL SHEET NOTES

OCCUPANCY SENSORS SHALL NOT TURN LIGHTS ON TO MORE THAT 50%. LIGHTS MUST BE MANUALLY ADJUSTED TO 100%. PHOTOCELLS TO BE SET AT 30 FC. PROVIDE ROOM/DIMMING CONTROLLERS AS NECESSARY TO FACILITATE LIGHTING

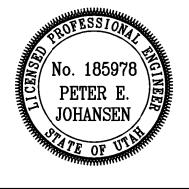
THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, PRAPHIC REPRESENTATION & MODELS THEREOF, ARE PROPRIETARY & CAN NOT BE COPIED, DUPLICATED, OR COMMERCIALLY EXPLOITED IN WHOLE OR IN PART WITHOUT THE SOLE AND EXPRESS WRITTEN PERMISSION FROM DONALD L. WELCH ARCHITECT

Donald L. Welch

Architect Sandy Land L vale, Utah 840 801. 548-6391 Ich5977@msn.c

THESE DRAWINGS ARE AVAILABLE FOR JMITED REVIEW AND EVALUATION BY CLIENTS CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNEL ONLY IN ACCORDANCE WITH THIS NOTICE.

consultant:



project:

 $\overline{}$

5

 $\overline{}$

0

 \sim

900

BUILDING

Tenant Finish 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 #1-January 04, 2017 ADDENDUM #2-January 06, 2017 ADDENDUM #5-January 19, 2017

ADDENDUM #7-April 12, 2017

LIGHTING PLAN -BUILDING 'D'

LIGHTING FIXTURE SCHEDULE

3500K, 90 CRI 2000 LUMENS DIMMABLE 0-10V

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)	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 M	MULTIPLE TRIMS AND	REFLECTOR ASSEMBLIES	
			FOR LAMPS AS LISTED BELOW; ELECTRO		•		•	•	
6	· · · · · · · · · · · · · · · · · · ·	~~~~	_SELF.FLANGING-JRIM-UNLESS.NOTED	~~~~	· · · · · · · · · · · · · · · · · · ·	~~~~	*****		· · · · · · · · · · · · · · · · · · ·
$\sqrt{\epsilon}$		DX-1	RECESSED DOWNLIGHT; VERTICAL,	1500 LU	27W	120/277V	PEACHTREE	6BLRD-IC-18-35K-80-SH-TRW-120	31
$\langle \mathcal{L} \rangle$			FULL ON AT 0 VOLTS CONTROL INPUT	3500k				OR EQUIVALENT	ί
(6"						}
{			3500 K						χ́Ι
Ì			DIMMALE 0-10V						31
{									ξ
Ì)
{)
Ç		DX-2	RECESSED DOWNLIGHT; VERTICAL,	2000 LI	54W	120/277V	PEACHTREE	6BLRD-IC-20-35K-80-SH-RCA-120	31
- {			FULL ON AT 0 VOLTS CONTROL INPUT	3500k				OR EQUIVALENT	ŶΙ
Ì			6"						31

	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 W	ITH AN EM	ERGENCY BAT	TERY PACK TO PR	ROVIDE 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;UNIVE	RSAL TRANSFOR	RMER FOR	120 OR 277 V	OLTS; LOW VOLTAG	GE PROTECTION, COMBINATION				
	TEST SWITCH AND AC "ON" INDICAT	OR; 10 YEAR PR	O-RATA WA	ARRANTY; INS	TALL TEST SWITCH	I IN A MANNER THAT REQUIRES				
	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				
					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		HING LOW	LEVEL WALL N	OUNTED 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)				

	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.									
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					
					CHLORIDE	EDGL-S-S-G-BK (BLACK HOUSING)				
						STDLX-X-1-GC-X				
E40.0E	DUAL FACE.	LED	214/	400/077\/	LIGHTOLIER	LEAC1GCX				
E10-2E	DUAL FACE:	LED	2W	120/277V		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				
HG	EXTERIOR CANOPY FIXTURES									
HG-1	RECESSED SQUARE LED CANOPY LIGHT,	LED	50W	120/277V	MCGRAW EDISON	LRC-B16-1-LED-E1-WST				
			2000 111							
	BRONZE FINISH, WIDE DISTRIBUTION	3000K	3800 LU							
00										
ОС	BRONZE FINISH, WIDE DISTRIBUTION WALL MOUNTED TRAPEZOIDAL WALL PAC									
OC-32	WALL MOUNTED TRAPEZOIDAL WALL PAC			120/277V	LITHONIA	WST-LED-1-10A700-35K-SR4-MVOLT				
	WALL MOUNTED TRAPEZOIDAL WALL PAC	K, WET LO	CATION	120/277V	LITHONIA	WST-LED-1-10A700-35K-SR4-MVOLT				
OC-32	WALL MOUNTED TRAPEZOIDAL WALL PAC LED WALL PACK, TYPE IV OPTICS BRONZE FINISH	LED 3500K	CATION 24W 1600 LU							
	WALL MOUNTED TRAPEZOIDAL WALL PACE LED WALL PACK, TYPE IV OPTICS BRONZE FINISH SPECIAL FIXTURES AS INDICATED. MEET	LED 3500K	CATION 24W 1600 LU							
OC-32	WALL MOUNTED TRAPEZOIDAL WALL PACE LED WALL PACK, TYPE IV OPTICS BRONZE FINISH SPECIAL FIXTURES AS INDICATED. MEET FINISH APPROVAL REQUIRED.	LED 3500K	CATION 24W 1600 LU REMENTS OF	SPECIFICA	TIONS AND FIXTURE	SCHEDULE. VISUAL AND				
OC-32	WALL MOUNTED TRAPEZOIDAL WALL PACE LED WALL PACK, TYPE IV OPTICS BRONZE FINISH SPECIAL FIXTURES AS INDICATED. MEET	LED 3500K ALL REQUI	CATION 24W 1600 LU		TIONS AND FIXTURE SHAPER	SCHEDULE. VISUAL AND 122-36-L7-UNV-SN				
OC-32	WALL MOUNTED TRAPEZOIDAL WALL PACE LED WALL PACK, TYPE IV OPTICS BRONZE FINISH SPECIAL FIXTURES AS INDICATED. MEET FINISH APPROVAL REQUIRED. Surface Mounted Drum	LED 3500K	CATION 24W 1600 LU REMENTS OF	SPECIFICA	TIONS AND FIXTURE	SCHEDULE. VISUAL AND				
TX TX-1	WALL MOUNTED TRAPEZOIDAL WALL PACE LED WALL PACK, TYPE IV OPTICS BRONZE FINISH SPECIAL FIXTURES AS INDICATED. MEET FINISH APPROVAL REQUIRED. Surface Mounted Drum	LED 3500K ALL REQUI	CATION 24W 1600 LU REMENTS OF	SPECIFICA 120/277V	TIONS AND FIXTURE SHAPER SPI	SCHEDULE. VISUAL AND 122-36-L7-UNV-SN				
OC-32	WALL MOUNTED TRAPEZOIDAL WALL PACE LED WALL PACK, TYPE IV OPTICS BRONZE FINISH SPECIAL FIXTURES AS INDICATED. MEET FINISH APPROVAL REQUIRED. Surface Mounted Drum 36" Diameter Surface Mounted Drum	LED 3500K ALL REQUI LED 3500K	CATION 24W 1600 LU REMENTS OF	SPECIFICA	TIONS AND FIXTURE SHAPER SPI SHAPER	SCHEDULE. VISUAL AND 122-36-L7-UNV-SN AIC11866-L100.4WDML-PT04-120-277V-3500K-FB0 122-24-L5-UNV-SN				
TX TX-1	WALL MOUNTED TRAPEZOIDAL WALL PACE LED WALL PACK, TYPE IV OPTICS BRONZE FINISH SPECIAL FIXTURES AS INDICATED. MEET FINISH APPROVAL REQUIRED. Surface Mounted Drum 36" Diameter	LED 3500K ALL REQUI	CATION 24W 1600 LU REMENTS OF	SPECIFICA 120/277V	TIONS AND FIXTURE SHAPER SPI	SCHEDULE. VISUAL AND 122-36-L7-UNV-SN AIC11866-L100.4WDML-PT04-120-277V-3500K-FB0				
TX TX-1	WALL MOUNTED TRAPEZOIDAL WALL PACE LED WALL PACK, TYPE IV OPTICS BRONZE FINISH SPECIAL FIXTURES AS INDICATED. MEET FINISH APPROVAL REQUIRED. Surface Mounted Drum 36" Diameter Surface Mounted Drum	LED 3500K ALL REQUI LED 3500K	CATION 24W 1600 LU REMENTS OF	SPECIFICA 120/277V	TIONS AND FIXTURE SHAPER SPI SHAPER	SCHEDULE. VISUAL AND 122-36-L7-UNV-SN AIC11866-L100.4WDML-PT04-120-277V-3500K-FB0 122-24-L5-UNV-SN				
TX TX-1 TX-2	WALL MOUNTED TRAPEZOIDAL WALL PACE LED WALL PACK, TYPE IV OPTICS BRONZE FINISH SPECIAL FIXTURES AS INDICATED. MEET FINISH APPROVAL REQUIRED. Surface Mounted Drum 36" Diameter Surface Mounted Drum 24" Diameter	LED 3500K ALL REQUI LED 3500K LED 3500K	CATION 24W 1600 LU REMENTS OF 100W	SPECIFICA 120/277V 120/277V	TIONS AND FIXTURE SHAPER SPI SHAPER SPI	SCHEDULE. VISUAL AND 122-36-L7-UNV-SN AIC11866-L100.4WDML-PT04-120-277V-3500K-FB0 122-24-L5-UNV-SN AIC11865-L46.6WDML-PT04-120-277V-3500K-FB01				
TX TX-1 TX-2	WALL MOUNTED TRAPEZOIDAL WALL PACE LED WALL PACK, TYPE IV OPTICS BRONZE FINISH SPECIAL FIXTURES AS INDICATED. MEET FINISH APPROVAL REQUIRED. Surface Mounted Drum 36" Diameter Surface Mounted Drum 24" Diameter Surface Mounted	LED 3500K ALL REQUI LED 3500K LED 3500K	CATION 24W 1600 LU REMENTS OF 100W	SPECIFICA 120/277V 120/277V	TIONS AND FIXTURE SHAPER SPI SHAPER SPI	SCHEDULE. VISUAL AND 122-36-L7-UNV-SN AIC11866-L100.4WDML-PT04-120-277V-3500K-FB0 122-24-L5-UNV-SN AIC11865-L46.6WDML-PT04-120-277V-3500K-FB01				
TX TX-1 TX-2	WALL MOUNTED TRAPEZOIDAL WALL PACE LED WALL PACK, TYPE IV OPTICS BRONZE FINISH SPECIAL FIXTURES AS INDICATED. MEET FINISH APPROVAL REQUIRED. Surface Mounted Drum 36" Diameter Surface Mounted Drum 24" Diameter Surface Mounted	LED 3500K ALL REQUI LED 3500K LED 3500K	CATION 24W 1600 LU REMENTS OF 100W	SPECIFICA 120/277V 120/277V	TIONS AND FIXTURE SHAPER SPI SHAPER SPI	SCHEDULE. VISUAL AND 122-36-L7-UNV-SN AIC11866-L100.4WDML-PT04-120-277V-3500K-FB0 122-24-L5-UNV-SN AIC11865-L46.6WDML-PT04-120-277V-3500K-FB01				
TX TX-1 TX-2 TX-3	WALL MOUNTED TRAPEZOIDAL WALL PACE LED WALL PACK, TYPE IV OPTICS BRONZE FINISH SPECIAL FIXTURES AS INDICATED. MEET FINISH APPROVAL REQUIRED. Surface Mounted Drum 36" Diameter Surface Mounted Drum 24" Diameter Surface Mounted Bedroom Light	LED 3500K ALL REQUI LED 3500K LED 3500K LED 3500K	CATION 24W 1600 LU REMENTS OF 100W 37W	SPECIFICA 120/277V 120/277V 120/277V	TIONS AND FIXTURE SHAPER SPI SHAPER SPI BETACALCO	SCHEDULE. VISUAL AND 122-36-L7-UNV-SN AIC11866-L100.4WDML-PT04-120-277V-3500K-FB0 122-24-L5-UNV-SN AIC11865-L46.6WDML-PT04-120-277V-3500K-FB01 FIERO-60 1200-3500K-PC-SN				
TX TX-1 TX-2 TX-3	WALL MOUNTED TRAPEZOIDAL WALL PACE LED WALL PACK, TYPE IV OPTICS BRONZE FINISH SPECIAL FIXTURES AS INDICATED. MEET FINISH APPROVAL REQUIRED. Surface Mounted Drum 36" Diameter Surface Mounted Drum 24" Diameter Surface Mounted Bedroom Light Surface Mounted	LED 3500K ALL REQUI LED 3500K LED 3500K LED 3500K	CATION 24W 1600 LU REMENTS OF 100W 37W	SPECIFICA 120/277V 120/277V 120/277V	TIONS AND FIXTURE SHAPER SPI SHAPER SPI BETACALCO	SCHEDULE. VISUAL AND 122-36-L7-UNV-SN AIC11866-L100.4WDML-PT04-120-277V-3500K-FB0 122-24-L5-UNV-SN AIC11865-L46.6WDML-PT04-120-277V-3500K-FB01 FIERO-60 1200-3500K-PC-SN				
TX TX-1 TX-2 TX-3	WALL MOUNTED TRAPEZOIDAL WALL PACE LED WALL PACK, TYPE IV OPTICS BRONZE FINISH SPECIAL FIXTURES AS INDICATED. MEET FINISH APPROVAL REQUIRED. Surface Mounted Drum 36" Diameter Surface Mounted Drum 24" Diameter Surface Mounted Bedroom Light Surface Mounted	LED 3500K ALL REQUI LED 3500K LED 3500K LED 3500K	CATION 24W 1600 LU REMENTS OF 100W 37W	SPECIFICA 120/277V 120/277V 120/277V	TIONS AND FIXTURE SHAPER SPI SHAPER SPI BETACALCO	SCHEDULE. VISUAL AND 122-36-L7-UNV-SN AIC11866-L100.4WDML-PT04-120-277V-3500K-FB0 122-24-L5-UNV-SN AIC11865-L46.6WDML-PT04-120-277V-3500K-FB01 FIERO-60 1200-3500K-PC-SN				

W	LOW PROFILE WRAPAROUND: SURFACE MOUNTED SUITABLE FOR MOUNTING ON LOW DENSITY CEILINGS WRAPAROUND									
	ACRYLIC PRISMATIC DIFFUSER; WHITE E	NAMEL END	OPLATES; MIN	NIMUM CU O	F 70 @ 80/50/20 AN	ID RCR=1;				
W-2	NARROW BODY WRAPAROUND;	LED	57W	277/120V	EATON	DSI-WD-3-L35-1-D-UNV-SU-JB-4-STD-FC-W				
	APPROX; 3" X 12" X 48"									
	X 48".									
	5500 LUMENS									
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".	WNLED LD1 41 1 UNV L835 CD1 U								
	4800 LUMENS				DAYBRITE	OWL450L835UNV				
WS	WALL MOUNTED LED LOCATED ABOVE WALL ELEMENT (MIRROR/WHITEBOARD, ETC.): AS INDICATED 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 PER POLE AS SHOWN ON DRAWINGS. WET LABEL. LED LIGHT ENGINE, OPTICS AND DRIVERS ACCESSIBLE FROM									
	BELOW; RATED 100 MPH WITH 1.3 GUST	FACTOR								
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 FIXTURE									
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							
	HOUSE SIDE SHIELD									

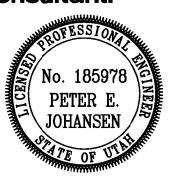
9' SSS POLE, FINISH TO MATCH FIXTURE

THE DESIGNS SHOWN AND DESCRIBED HEREIN THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, SRAPHIC 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 JMITED REVIEW AND EVALUATION BY CLIENTS CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNEL ONLY IN ACCORDANCE WITH THIS NOTICE.

consultant:

Donald L. Welch



project:

 $\overline{}$ $\overline{}$

5

 $\overline{}$ ∞

 \sim

#2

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

Salt Lake County, Utah

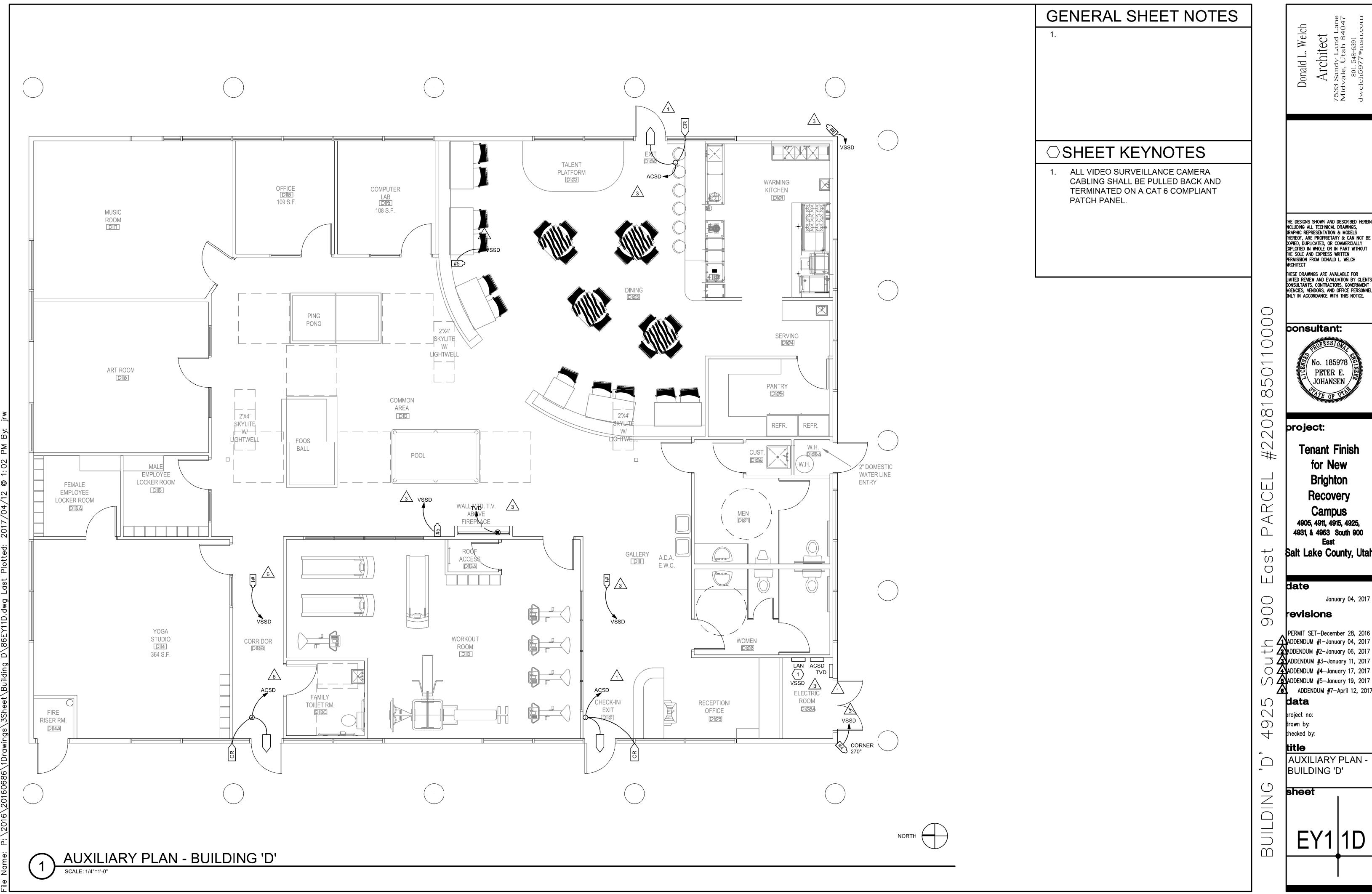
January 04, 2017

revisions

PERMIT SET-December 28, 2016 ADDENDUM #1-January 04, 2017 ADDENDUM #2-January 06, 2017 ADDENDUM #3-January 11, 2017
ADDENDUM #4-January 17, 2017 ADDENDUM #5-January 19, 2017 ADDENDUM #7-April 12, 2017

FIXTURE SCHEDULE

BUILDING

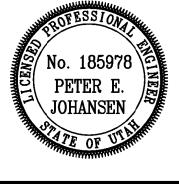


Architect Sandy Land L

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, SRAPHIC 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 JMITED REVIEW AND EVALUATION BY CLIENTS CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNEL ONLY IN ACCORDANCE WITH THIS NOTICE.

consultant:



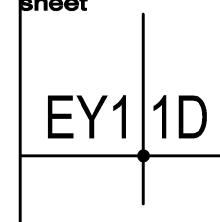
Tenant Finish for New **Brighton** Recovery Campus

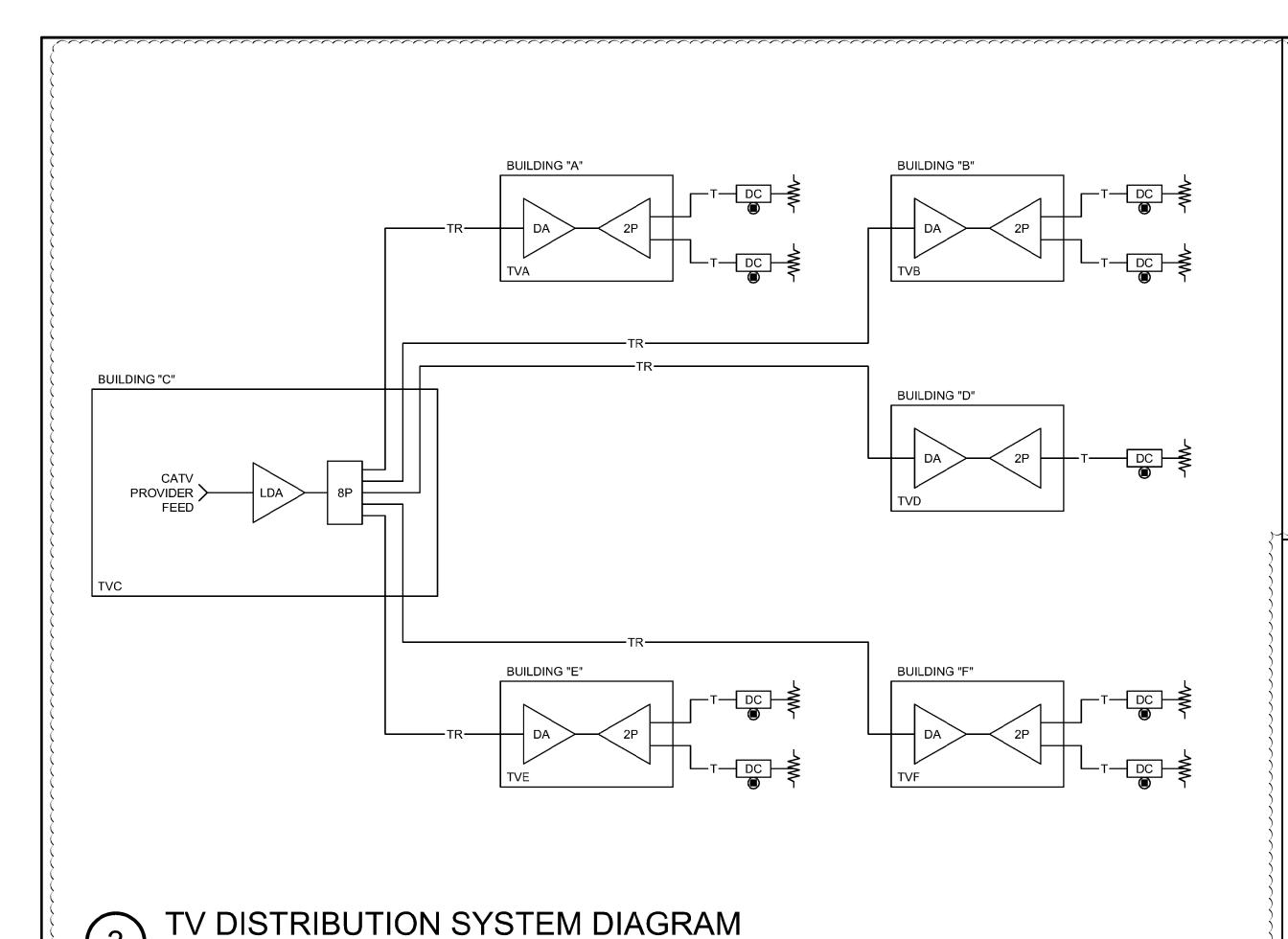
Salt Lake County, Utah

January 04, 2017

PERMIT SET-December 28, 2016 ADDENDUM #1-January 04, 2017 ADDENDUM #2-January 06, 2017 ADDENDUM #3-January 11, 2017

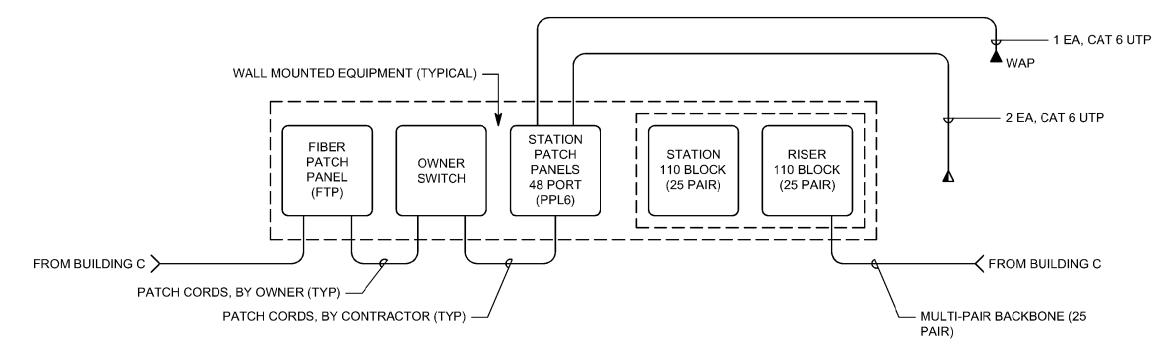
AUXILIARY PLAN -BUILDING 'D'



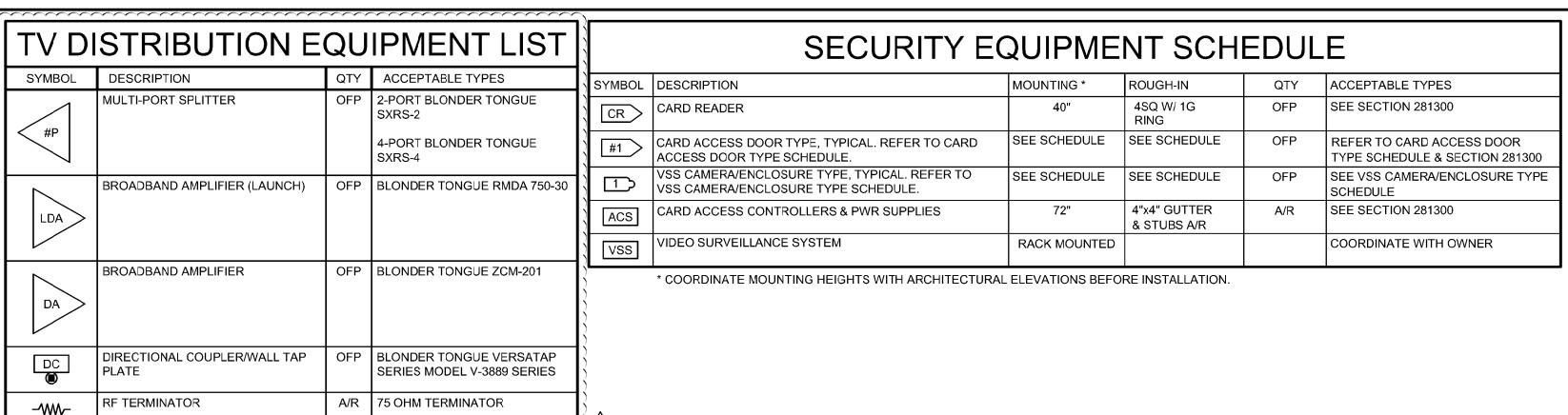


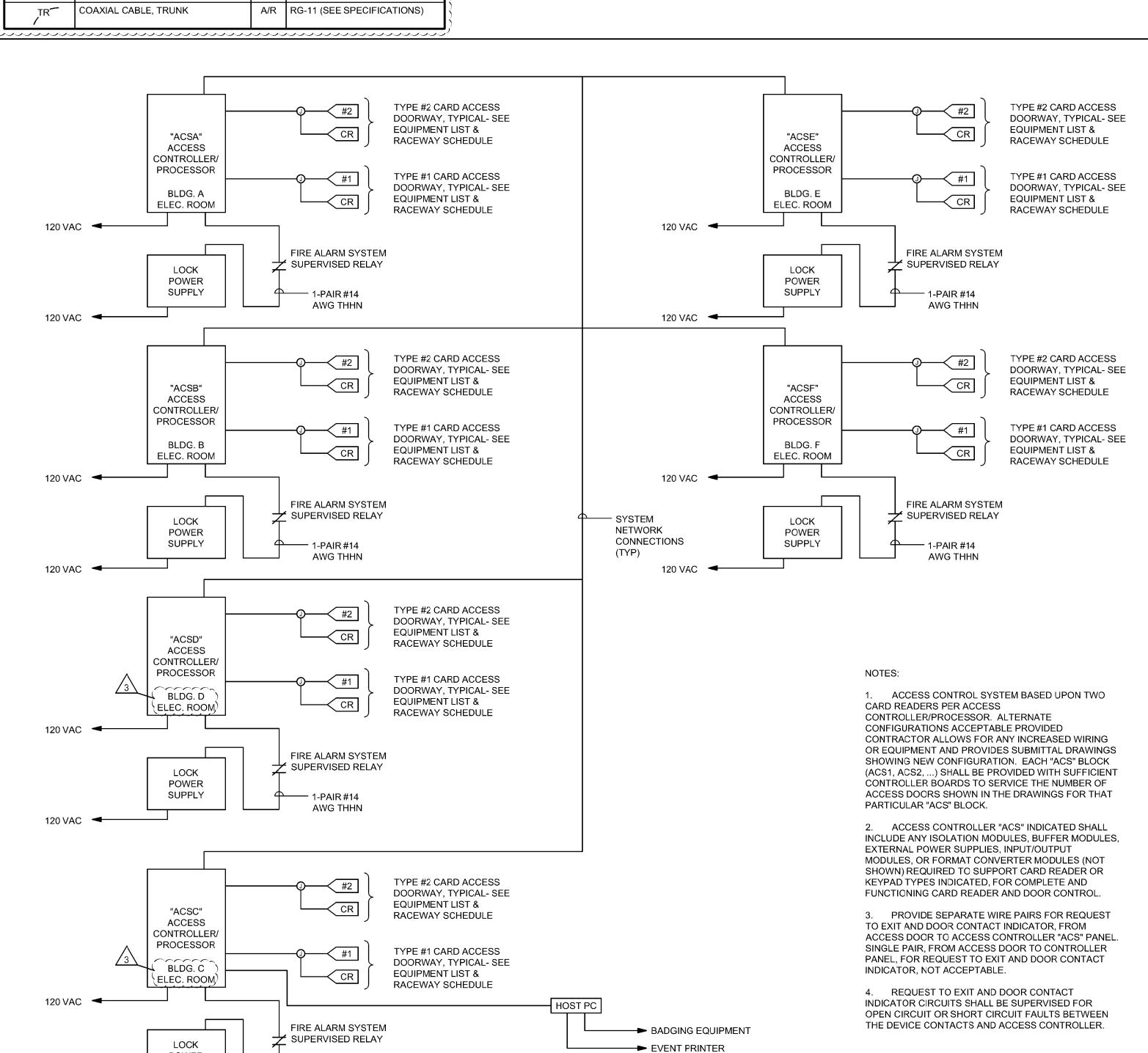
STRUCTURED CABLING SYSTEM NOTES

- 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.
- ALL CABLE, REGARDLESS OF LENGTH, INSTALLED UNDER THIS CONTRACT ARE TO BE LABELED.
- 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.
- GROUND ALL EQUIPMENT AS DETAILED. COORDINATE GROUNDING WITH ELECTRICAL CONTRACTOR.
- 6. ALL CABLE, FIBER, AND UTP TO TERMINATED ON BOTH ENDS.
- 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.
- 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)



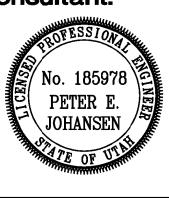


Donald L. Welch Architect

NCLUDING ALL TECHNICAL DRAWINGS, RAPHIC REPRESENTATION & MODELS HEREOF, ARE PROPRIETARY & CAN NOT COPIED, DUPLICATED, OR COMMERCIALLY XPLOITED IN WHOLE OR IN PART WITHOU THE SOLE AND EXPRESS WRITTEN PERMISSION FROM DONALD L. WELCH

IMITED REVIEW AND EVALUATION BY CLIENTS CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONN ONLY IN ACCORDANCE WITH THIS NOTICE.

consultant:



project:

 ∞

 \sim

 \mathcal{C}

#

 \triangleleft

 \Box

 \bigcirc

 \mathcal{C}

 \bigcirc

4

Brighton Recovery Campus 4905, 4911, 4915, 4925,

alt Lake County, Utal

4931, & 4953 South 900

January 04, 2017

revisions

PERMIT SET-December 28, 2016 **_11**ADDENDUM #1-January 04, 2017 ADDENDUM #2-January 06, 2017 → ADDENDUM #3-January 11, 2017 **4** ADDENDUM #4-January 17, 2017 ADDENDUM #5-January 19, 2017

> ADDENDUM #7-April 12, 2017 data

project no: trawn by: checked by:

AUXILIARY RISER DIAGRAMS

sheet

ACCESS CARD SYSTEM (ACS) RISER DIAGRAM

- 1-PAIR #14 AWG THHN

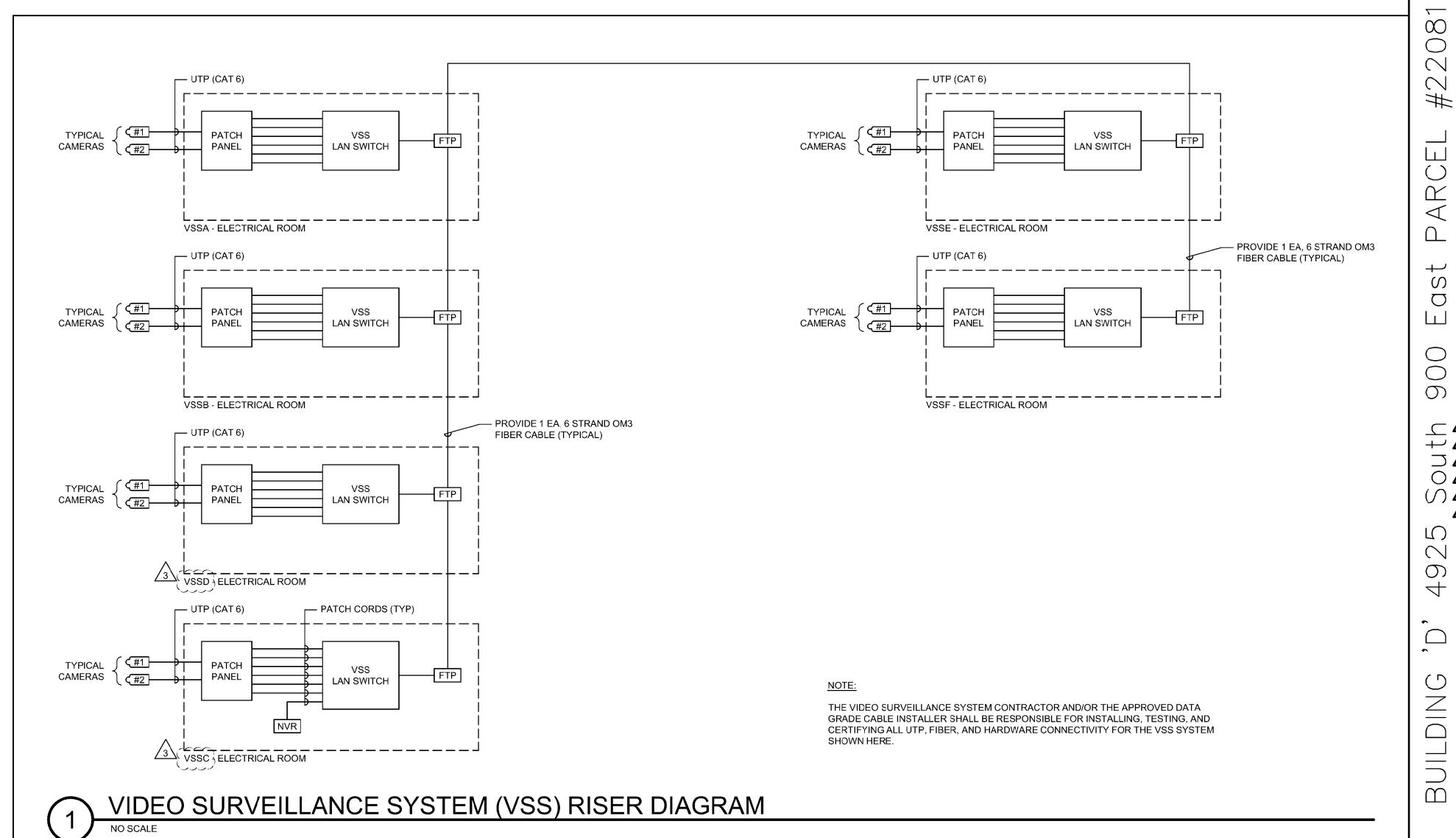
POWER

SUPPLY

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

	VSS C	AMERA/ENCLOSUR	E 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.
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
TYPE 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
TYPE 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 EQUIPMENT 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										



THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, PRAPHIC REPRESENTATION & MODELS THEREOF, ARE PROPRIETARY & CAN NOT E COPIED, DUPLICATED, OR COMMERCIALLY EXPLOITED IN WHOLE OR IN PART WITHOUT THE SIGNATURE OF PERMISSION FROM DONALD L. WELCH ARCHITECT THESE DRAWINGS ARE AVAILABLE FOR JMITED REVIEW AND EVALUATION BY CLIENTS CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNE DNLY IN ACCORDANCE WITH THIS NOTICE. consultant: 4931, & 4953 South 900 revisions

Brighton Recovery Campus 4905, 4911, 4915, 4925,

Salt Lake County, Utah

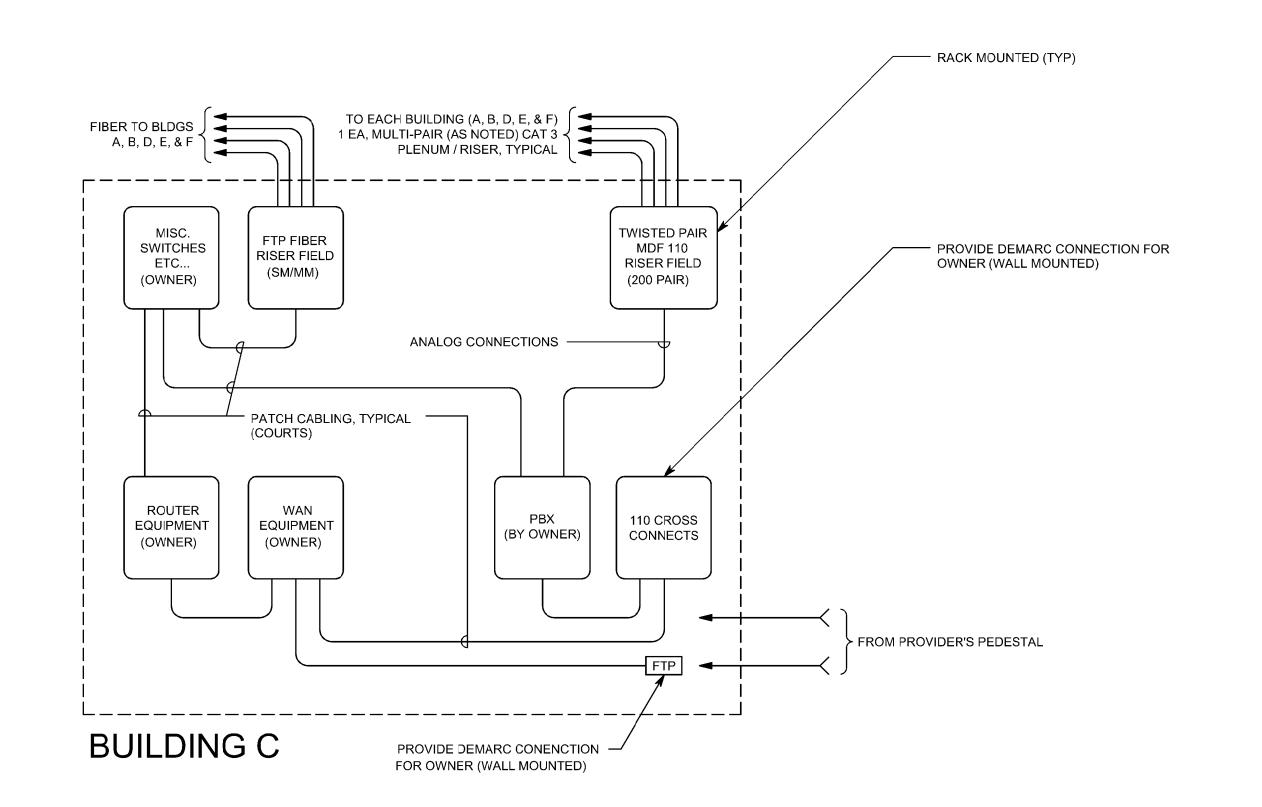
January 04, 2017

PERMIT SET-December 28, 2016 ADDENDUM #1-January 04, 2017 ADDENDUM #2-January 06, 2017 ADDENDUM #3-January 11, 2017 ADDENDUM #4-January 17, 2017 ADDENDUM #5-January 19, 2017

ADDENDUM #7-April 12, 2017

drawn by: checked by:

AUXILIARY RISER DIAGRAMS



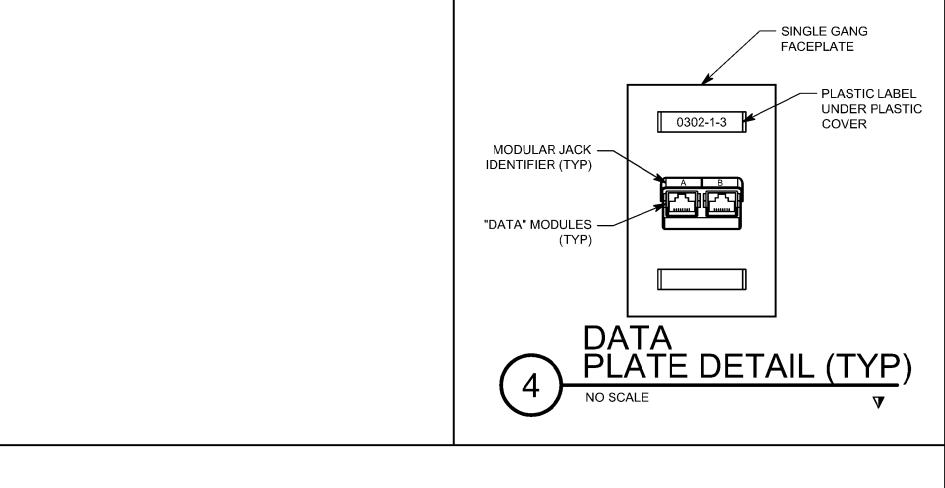
VOICE/DATA EQUIPMENT/CABLE LIST

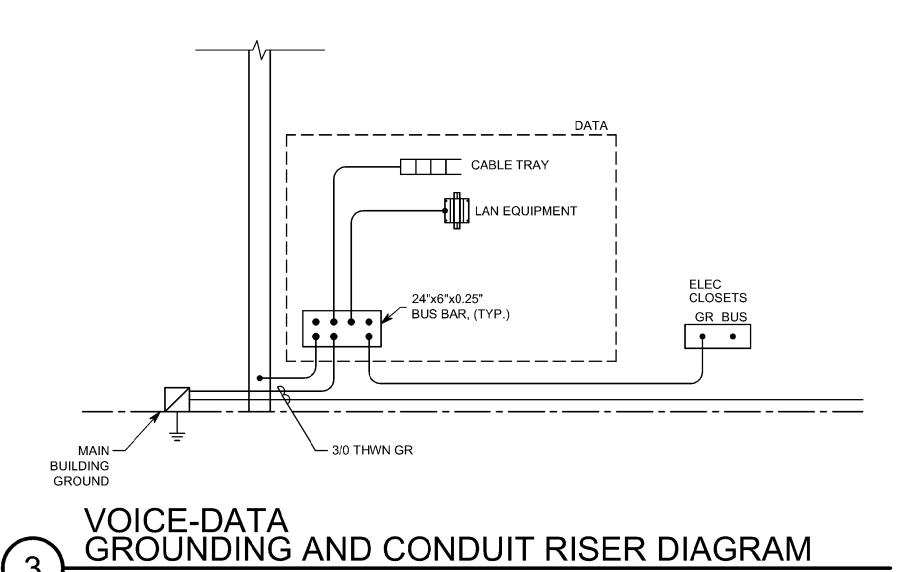
GENERAL NOTE:
THIS REPRESENTS ITEMS OF SIGNIFICANCE USED DURING THE DESIGN OF THE CABLING INSTALLATION, WHILE THE ITEMS INDICATED BELOW SHALL NOT BE CONSTRUED AS A "BILL OF MATERIALS". FURNISH ALL MISCELLANEOUS HARDWARE AND SUPPORTS WHICH MAY NOT BE LISTED HERE FOR A COMPLETE INSTALLATION. COMPARE CATALOG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

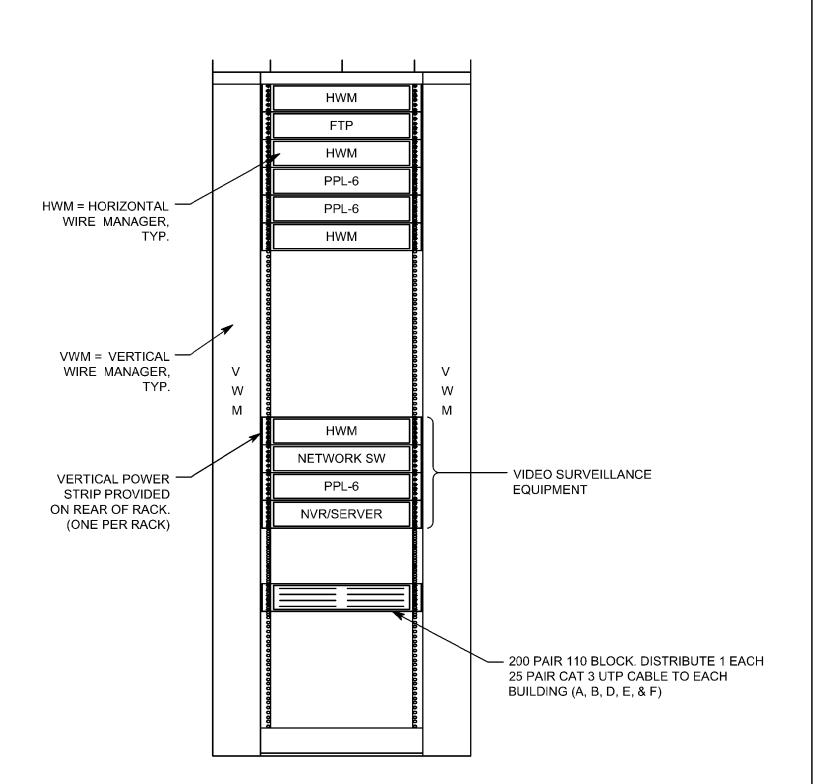
SYMBOL	ITEM DESCRIPTION	COMMENTS
	4 PAIR 24 GAUGE CAT 6 UTP, PLENUM CABLE	SEE SPECIFICATIONS
	6 STRAND FIBER PLENUM CABLE, MULTI-MODE (OM3)	SEE SPECIFICATIONS
PPL6-48	48-PORT PATCH PANEL WITH CAT 6 RJ45 JACKS; MOUNTED IN RACK.	PROVIDE FOR QUANTITY OF PORTS SHOWN ON DRAWINGS, PLUS 20%
FTP	SC TYPE CONNECTOR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

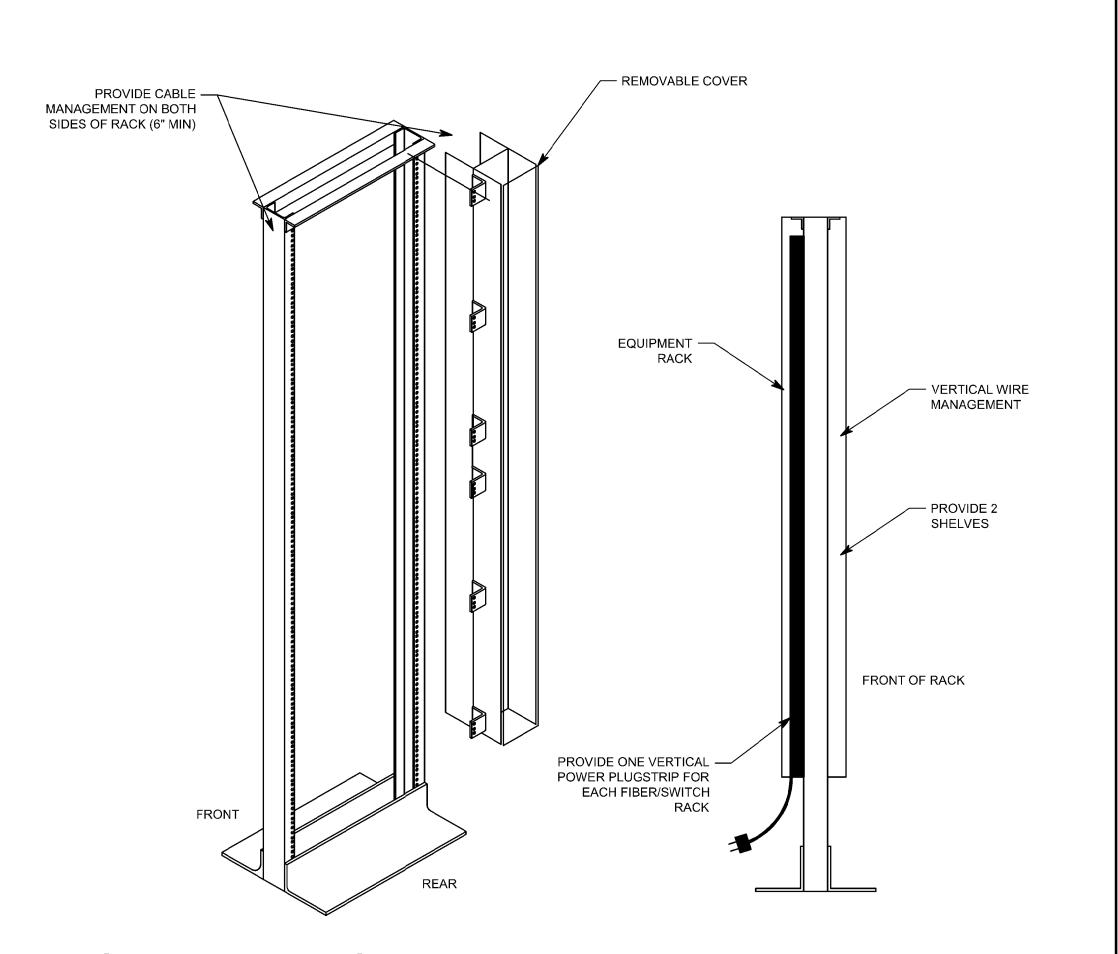






- RACK LAYOUTS ARE FOR COORDINATION PURPOSES. ALL FINAL RACK LAYOUTS ARE TO BE COORDINATED WITH OWNER PERSONNEL.
- 2. PROVIDE ALL WIRE MANAGEMENT ACCESSORIES SHOWN.

HORIZONTAL TERMINATION RACK ELEVATION - BUILDING C



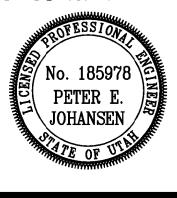
OPEN FRAME EQUIPMENT RACK/RACEWAY MOUNTING DETAILS

Donald L. Welch Architect

THE DESIGNS SHOWN AND DESCRIBED HEREI NCLUDING ALL TECHNICAL DRAWINGS, PRAPHIC REPRESENTATION & MODELS THEREOF, ARE PROPRIETARY & CAN NOT COPIED, DUPLICATED, OR COMMERCIALLY EXPLOITED IN WHOLE OR IN PART WITHOU HE SOLE AND EXPRESS WRITTEN PERMISSION FROM DONALD L. WELCH

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

consultant:



project:

 $\overline{}$ $\overline{}$

 \Box

 $\overline{}$

08

 \sim

#2

 \bigcirc

 \sim

 \bigcirc

4

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 #1-January 04, 2017 ADDENDUM #2-January 06, 2017 ADDENDUM #3-January 11, 2017 ADDENDUM #4-January 17, 2017 () ADDENDUM #5-January 19, 2017 ADDENDUM #7-April 12, 2017

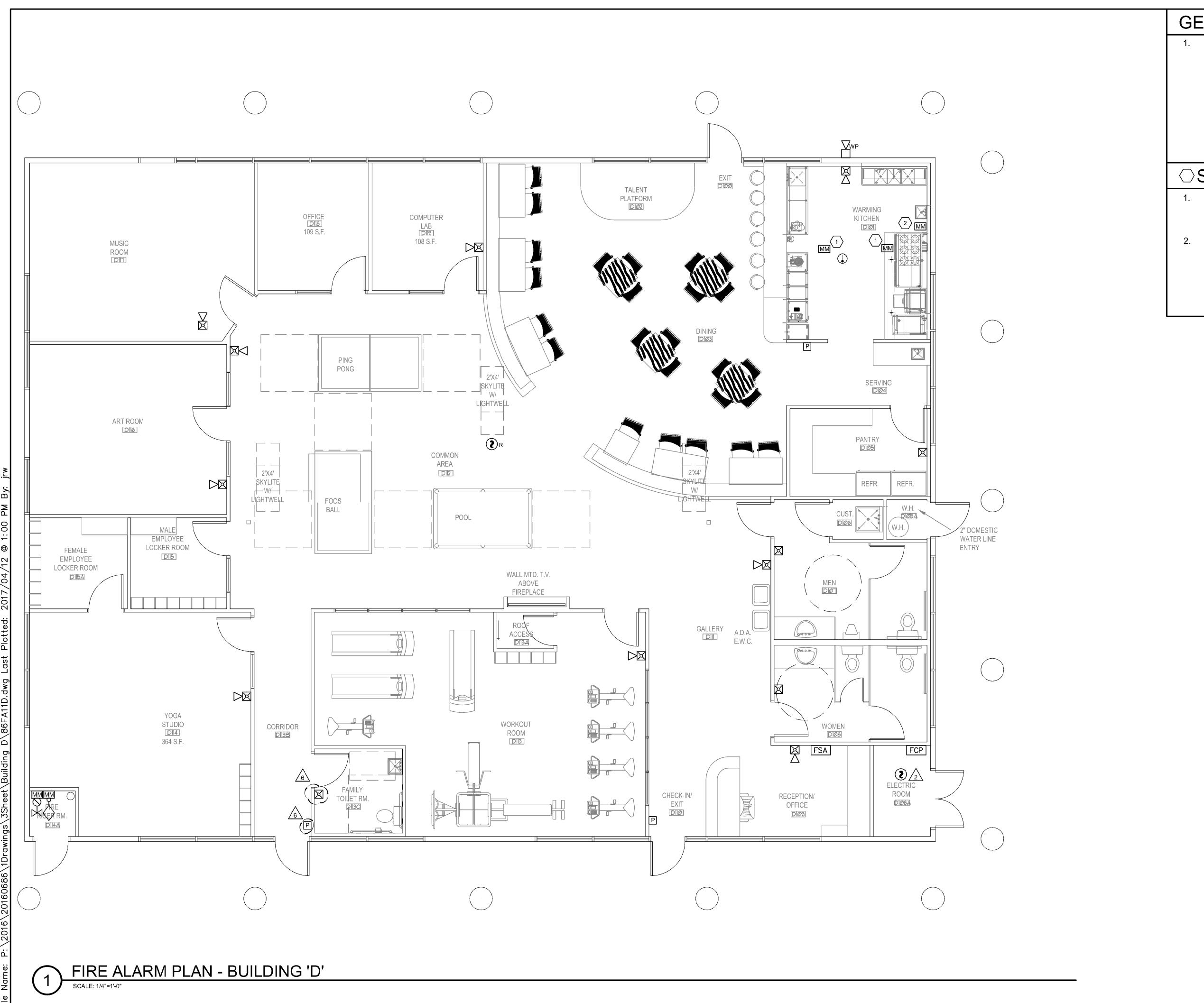
data

drawn by: checked by:

AUXILIARY RISER DIAGRAMS

sheet

DING



GENERAL SHEET NOTES

○SHEET KEYNOTES

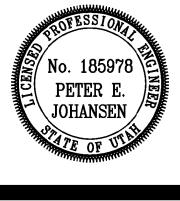
- PROVIDE MONITORING MODULES FOR EXHAUST AND MAKE-UP AIR SYSTEMS AND CONNECT BACK TO FIRE ALARM SYSTEM.
- PROVIDE MONITORING MODULE FOR ANSUL FIRE SYSTEM PANEL AND CONNECT TO BUILDING FIRE ALARM SYSTEM.

Donald L. Welch Architect Sandy Land L

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWNGS, PRAPHIC 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 JMITED REVIEW AND EVALUATION BY CLIENTS CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNEL ONLY IN ACCORDANCE WITH THIS NOTICE.

consultant:



project:

 $\overline{}$ $\overline{}$

50

 $\overline{}$

208

#2

ARCEL

ast

900

25

94

BUILDING

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

Salt Lake County, Utah

date

January 04, 2017

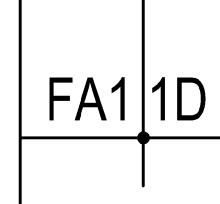
revisions

PERMIT SET-December 28, 2016 ADDENDUM #1-January 04, 2017 ADDENDUM #2-January 06, 2017 ADDENDUM #3-January 11, 2017 ADDENDUM #4-January 17, 2017 ADDENDUM #5-January 19, 2017

ADDENDUM #7-April 12, 2017 data

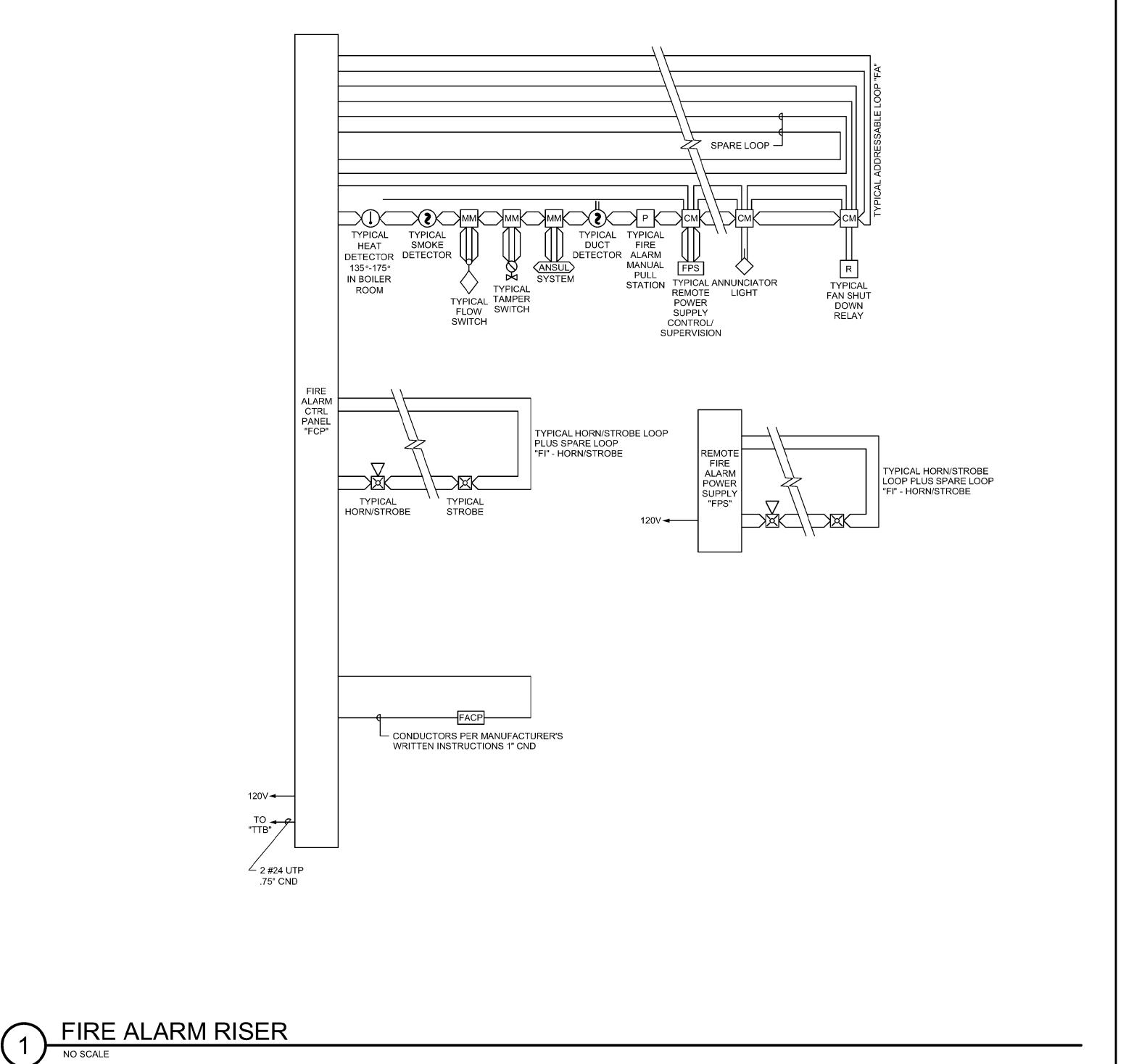
checked by:

FIRE ALARM PLAN - BUILDING 'D'



	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'	ENERAL ALARM BLDG 'F'	TROUBLE ALARM	SUPERVISORY ALARM	FAN SHUTDOWN	FIRE DAMPER	NOTES	
		ZONE	GEN	GEN	GEN	GEN	GEN	GEN	TRC	SUP	FAN	FIRE	
	1	RISER BLDG 'A' FLOW	•						•	•			
	2	RISER BLDG 'A' TAMPER									•		
	3	RISER BLDG 'B' FLOW		•					•	•			
	4	RISER BLDG 'B' TAMPER									•		
	5	RISER BLDG 'C' FLOW			•				•	•			
ES	6	RISER BLDG 'C' TAMPER									•		
DEVICES	7	RISER BLDG 'D' FLOW				•			•	•			
	8	RISER BLDG 'D' TAMPER									•		
INITIATING	9	RISER BLDG 'E' FLOW					•		•	•			
Z	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

3. FLOW AND TAMPER CONFIGURATION BASED UPON FIRE SPRINKLER DESIGN CONCEPT. FIELD VERIFY ACTUAL REQUIREMENTS. INCLUDE ANY ADDITIONAL MONITOR MODULES REQUIRED BY ACTUAL DESIGN

4. BATTERY CAPACITY TO BE ADEQUATE TO OPERATE 15 MINUTES AFTER 24 HOURS PLUS

5. VFD REQUIRES TWO RELAYS, ONE FOR SMOKE

6. RUN SPARE LOOPS IN SAME CONDUIT. DO NOT

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

10. LOCATE SMOKE DETECTORS MINIMUM 3' FROM AIR SUPPLY AND RETURN LOUVERS.

11. PROVIDE SYNCHRONIZED STROBES THROUGHOUT FACILITY. PROVIDE SYNCHRONIZATION MODULES PER

12. INITIATING AND INDICATING LOOPS SHALL NOT SERVE AN AREA OF GREATER THAN 22,500 SQUARE FEET. PROVIDE ADDITIONAL LOOPS

13. ALL OUTPUT DEVICES ARE DESIGNED ON

14. HORN/STROBE BASED ON 120 MILLIAMPS,

DOOR HOLDERS BASED ON 70 MILLIAMPS.

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.

REQUIREMENTS.

25% SPARE CAPACITY.

CONTROL, ONE SPARE.

EXCEED 40% AREA FILL OF CONDUITS.

COMPANY.

MANUFACTURER'S REQUIREMENTS. INCLUDE ADDITIONAL WIRING, IF REQUIRED.

FOR AREAS LARGER THAN THIS.

SYSTEMS WITH 2 AMP POWER SUPPLY.

15. INSTALL DUCT DETECTORS PER NFPA 72 REQUIREMENTS AND PROVIDE ADDITIONAL DUCT DETECTORS DEPENDING UPON FINAL DUCT ARRANGEMENT.

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, RAPHIC REPRESENTATION & MODELS

Donald L. Welch

Architect

THEREOF, ARE PROPRIETARY & CAN NOT E COPIED, DUPLICATED, OR COMMERCIALLY EXPLOITED IN WHOLE OR IN PART WITHOUT THE SOLE AND EXPRESS WRITTEN PERMISSION FROM DONALD L. WELCH

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

consultant:

 $\overline{}$

 $\overline{}$

 \Box

 $\overline{}$

 ∞

 \sim

#

 \triangleleft

+

 \bigcirc

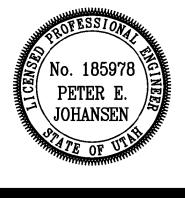
 \Box

 \bigcirc

4

DING

BULL



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 #1-January 04, 2017 ADDENDUM #2-January 06, 2017 ADDENDUM #3-January 11, 2017 ADDENDUM #4-January 17, 2017 ADDENDUM #5-January 19, 2017

ADDENDUM #7-April 12, 2017 data

drawn by: checked by:

FIRE ALARM RISER DIAGRAM