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ABBREVIATIONS GALV GALVANIZED AFF ABOVE FINISH FLOOR AC ACOUSTIC ADD ADDENDUM AC AIR CONDITIONING ALT ALT ALUM ALUMINUM AB ANCHOR BOLT ANOD ANODIZED ARCH ARCHITECT(URAL) ASPH ASPHALT HDW HDWD HTR BSMT BASEMENT HT HP ΗM BM BENCHMARK HORI BLKG BLOCKING ΗB HW BO BOTTOM OF HR BLDG BUILDING HSK CAB CABINET CPT CARPET IN CIP CAST IN PLACE INSU CB CATCH BASIN INT CLG CEILING INV CL CENTER LINE CT CERAMIC TILE CH CHANNEL CO CLEAN OUT JAN . .JT CL. CLOSET JST COL COLUMN CONC CONCRETE CMU CONCRETE MASONRY UNIT LAM LNDG COND CONDITION LAV CONN. CONNECTION LVR CONST CONSTRUCTION CONT CONTINUOUS CJ CONTROL JOINT •••М••• MFR. MO MATL DP DAMP PROOFING MAX DB DECK BEARING MECH DEMO DEMOLISH(ED) MTL DIAG DIAGONAL MEZZ DIA DIAMETER MIN DIM DIMENSION MULL DISP DISPENSER DWL DOWEL Ν DS DOWN SPOUT NG NOM DRN. BD. DRAINAGE BOARD NA DWG DRAWING NIC NTS 0 EWC ELEC: WATER COOLER OC ELEC ELECTRIC OPNG ELEV ELEVATION OPP EQ EQUAL OD EQUIP EQUIPMENT ORD EXH EXHAUST OFCI EXIST EXISTING EJ EXPANSION JOINT EXT EXTERIOR PNT PR. PNL FIN FINISH(ED) PVMT FE FIRE EXTINGUISHER d FEC FIRE EXTINGUISHER & P-LAM CABINET FIXT FIXTURE • PL . . . PLBG FL FLASHING PLYWD

A

ABV ABOVE

& AND

@ AT

BLW BELOW

BD BOARD

CLR CLEAR

D

DN DOWN

EA EACH

Le <u>E</u>

F

FT FEET

FLR FLOOR

FTG FOOTING

FND FOUNDATION

B

	GRILLE GROUND GYPSUM	RFG RM RGH RND
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/D	HARDWOOD	S
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· · · · · · · · · · · ·		SLDG
۲	HORIZONTAL	
	HOSE BIB	SO
	HOT WATER	SS
	HOUR	STD
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	MAXIMUM	VERT
Н	MECHANICAL	VEST
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	PAIR	
 	PANEL	
T	PAVEMENT	
	PENNY	
M	PLASTIC LAMINATE	
	PLATE	
Ģ	PLUMBING	
VD	PLYWOOD	
	POUND PER SQUARE INCH	

RADIUS REFLECTED CEILING PLAN REGISTER REQUIRED RETURN AIR REVISION ROOF DRAIN ROOF ING ROOM ROUGH ROUND
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ALV	GALVANIZED
Α	GAUGE
С	GENERAL CONTRACTOR
SN	GENERAL STRUCTURAL
L	GLASS OR GLAZING
D	GRADE
RL	GRILLE
RD	GROUND
VP	GYPSHM

RAD

RCP

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PSI PSF POUNDS PER SQUARE FOOT

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	MATERIALS / SYMBOL	S DESIGN	TEAM
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GISTER DUIRED URN AIR /ISION	WOOD MOLDING	BUILDING SECTION FLAG 577 South 200 East Salt Lake City, Utah 84111	
DF DRAIN DFING	CONCRETE (SECTION)	(801)533-2100 Ph. Contact: Christopher Child cic@ircadesign.com	
JGH JND	GYPSUM BOARD (SECTION)	WALL SECTION / EXTERIOR ELEVATION	
)TION IET		INTERIOR ELEVATION BHB Structural	
ILAR DING CIFICATION	COMPACTED GRAVEL (SECTION)	2766 South Main Street Salt Lake City, Utah 84115 (801)355-5656 Ph.	
ASH JARE INLESS STEEL	COMPACTED SUBGRADE	DETAIL Contact: Alex Piket alex.piket@bhbengineers.com	
	STEEL FRAMING (PLAN, A) SECTION)	GRID HEAD MECHANICAL & PLUMBING	
PENDED	CMU (PLAN, SECTION)	WINDOW TAG WHVV ENGINEERING 8619 South Sandy Parkway #101 Sandy Utab 84070	
EPHONE COMPANY IPERED GLASS IGUE & GROOVE	BRICK VENEER (PLAN, 101A) SECTION)	DOOR TAG (801) 801-466-4021 Ph. Contact: Brad Lash	
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ICAL	LANDSCAPE - PLANTING	KEYNOTE TAG Salt Lake City, Utah 84115 (801) 534-1130 Ph.	
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GENERAL NOTES:

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GENERAL INFORMA GI101	ATION GENERAL INFORMATION	$ \begin{array}{c} & & & & \\ & & & & \\ & & & & \\ & & & & $	
GIIII	-CODE-ANALYSIS 1		
GI12 GI120	CODE ANALYSIS		
GI121	LOWER LEVEL WORK PLAN		
. GI122	MAIN LEVEL WORK PLAN		
DEMOLITION DP101 DP161	BUILDING DEMOLITION PLAN LOWER FLOOR DEMO REFLECTED CEILING PLAN		
ARCHITECTURAL			
AE101 AE121	LOWER FLOOR PLAN FINISH PLAN		
AE131	FURNISHINGS PLAN		
AE161 AE401	ENLARGED FLOOR REFLECTED CEILING PLAN ENLARGED FLOOR PLANS & INTERIOR ELEVATION	٧S	
AE402			
AE521	INTERIOR FINISH DETAILS		n an
AE601	DOOR & FRAME TYPES / SCHEDULES		
STRUCTURAL			
S001	SPECIAL INSPECTION		
S101 S501	FLOOR FRAMING AND FOOTING AND FOUNDATIO	N PLANS	
0001			
MECHANICAL	MECHANICAL SYMBOLS AND GENERAL NOTES		
MD101	LOWER LEVEL MECHANICAL DEMOLITION PLAN		
MD101.1 ME101	LOWER LEVEL MECHANICAL CEILING DEMO PLAN LOWER LEVEL MECHANICAL PLAN		
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ME501	MECHANICAL DETAILS		
PLUMBING			
PE101	LOWER LEVEL PLUMBING PLAN		
PE501	PLUMBING DETAILS AND SCHEDULES		
ELECTRICAL			
ED101 ED102 EL101 EL501 EL701 EP101 EP501 EP701 EP702	LOWER LEVEL - DEMOLITION REFLECTED CEILING LOWER LEVEL - DEMOLITION POWER PLAN LOWER LEVEL - LIGHTING PLAN LIGHTING DETAILS LIGHTING CONTROLS WIRING DIAGRAMS LOWER LEVEL - POWER PLAN POWER DETAILS ONE-LINE DIAGRAM	3 PLAN	·····
EP702 EP801	PANEL SCHEDULES		
EP802	PANEL SCHEDULES		
EY101	LOWER LEVEL - SYSTEMS PLAN		
EY501 EY502	SYSTEMS DETAILS ACCESS CONTROL DOOR ROUGH -IN DETAILS	$\sum_{i=1}^{n}$	
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А ARCHITECTS 577 South 200 East S L C, Utah 84111 ph: (801) 533-2100 jrcadesign.com **REVIEWED FOR CODE** COMPLIANCE LDING MECHANICAL XPLUMBING N REVIEW ACCEPTANCE OF D IN VIOLATION STATE OF LOCAL REGI WEST COAST CODE CONSULTANT Rd MARKOSI 1wood F 84123 Rec UT <u>e</u> t \mathbf{O} \mathbf{O} 0 46 Ta S PROJECT #: 20029 BID DOCUMENT SET 02/17/2021 DATE REVISION 02/05/2 Revision 1 Gordon A. Clark CODE ANALYSIS GI111

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GENERAL

- 1. The structural notes are intended to complement the project specifications. Specific notes and details in the drawings shall govern over the structural notes and typical details.
- 2. Typical details and sections shall apply where specific details are not shown.
- 3. The structural drawings are not all-inclusive and do not contain all dimensions, elevations, openings, mechanical shafts and penetrations needed to build the structure. The contractor shall coordinate these items with the Architectural, Mechanical and Electrical drawings.
- 4. Omissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to the owner.
- 5. The contractor shall submit a written request to the architect/engineer before proceeding with any changes, substitutions or modifications. Any work done by the contractor before receiving written approval will be at the contractor's risk.
- 6. The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc. Sizes and locations of mechanical and other equipment that differs from those shown on the contract drawings shall be reported to the architect/engineer.
- 7. The contractor shall provide adequate shoring and bracing as required for the chosen method of erection. Shoring and bracing shall remain in place until final connections for the permanent members are completed. The building shall not be considered stable until all connections are completed. Walls shall not be considered self-supporting and shall be braced until the floor/roof system is completed.
- 8. The contractor shall not cut or core any holes in concrete walls without prior review by the architect/engineer.
- 9. Site observations by BHB Consulting Engineers' field representative shall not be construed as approval of construction procedures nor special inspection.
- 10. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultant's drawings. Some dimensions and elements such as elevations, depressions, slopes, mechanical housekeeping pads, etc. are not shown in the structural drawings. All dimensions shown on structural drawings shall be verified by contractor with architectural, mechanical and electrical drawings.
- 11. Contractor shall review shop drawings for compliance with contract documents, and stamp shop drawings with review stamp prior to submission to architect for review. Review of shop drawings by BHB Consulting Engineers is for general compliance only and is not intended for approval. The shop drawing review shall not relieve the contractor from the responsibility of completing the project according to the contract documents. Fabrication shall not begin until shop drawings review process is complete. Shop drawings made from reproductions of the contract drawings will be rejected unless the contractor signs a release agreement prior to the shop drawings being reviewed.
- 12. Only an authorized representative of BHB Consulting Engineers may make changes to these contract drawings. BHB Consulting Engineers shall not be held responsible or liable for any claims arising directly or indirectly from changes made without written authorization by an authorized representative of BHB Consulting Engineers.

BASIS OF DESIGN

1.	Governing Code a. Risk Category	International Building Code 2018 III
2.	Floor Live Loads a. Office	80 psf + 20 psf Partition

EXISTING CONDITIONS

1. Structural connections and the framing systems shown in the structural drawings are based on a limited site survey. The contractor shall verify the existing conditions of exposed framing systems, connections, walls, and other structural elements within the project area. If existing conditions vary from the information in the

contract documents, the contractor shall notify the architect/engineer prior to proceeding with the fabrication or construction of any affected elements.

- 2. Existing framing systems and foundations taking new loads are assumed to be in good condition, unless noted otherwise in the contract documents. The contractor shall immediately notify the architect/engineer of any deficiencies in the existing structure that are observed or revealed during construction (e.g. corrosion of steel members, cracking or crumbling of concrete, checking or splitting of wood members) prior to proceeding with the fabrication or construction of any affected elements.
- 3. The contractor shall use the foundation systems indicated on the plans for reference only, and shall field verify foundation sizes, locations, and thicknesses during construction. The contractor shall notify the architect/engineer if existing foundations vary from the information in the contract documents prior to proceeding with the fabrication or construction of any affected elements.
- 4. While performing work adjacent to existing structures, the contractor shall be responsible for adequate shoring and protection of all existing structures, utilities, and services which will be affected by the work in the contract documents.

None

1500 psf -Contractor shall verify at time of construction.

FOUNDATION

- 1. Soils Investigation Report:
- 2. Assumed Soil bearing pressure:
- 30" minimum. 3. Frost Protection:
- 4. Clear excavations of debris and loose soil prior to placing footings. All footings shall bear on undisturbed natural sub-grade or engineered compacted fill as noted in these drawings.

EARTHWORK

- . Prior to construction, the contractor shall verify that the soil conditions are adequate for 1,500 psf allowable soil bearing pressure. If needed, structural fill shall be provided beneath footings.
- . Clearing: Remove all existing structures and associated foundations, slabs, fencing, asphalt, concrete, and incidental structures as necessary for project completion. The building area shall be stripped of all vegetation, topsoil and debris. Following stripping, all fill soils and any remaining loose natural soils shall be excavated to expose competent natural soils.
- Proof roll the entire building pad area with normal compaction equipment to check for the presence of unsuitable fills, soft spots, or other undesirable materials or conditions. Remove sub-grade materials that are unsuitable and replace with compacted structural fill or 2,000 psi lean concrete. Compacted structural fill: All fill material shall be a well-graded granular material with a maximum size less
- than 3" and with not more than 15 percent passing a No. 200 sieve. It shall be compacted to at least 95 percent of the maximum laboratory density as determined by ASTM D 1557 for fill beneath footings and 90 percent for fill beneath floor slabs. All fill shall be tested. Compacted structural fill shall be placed in lifts not exceeding 8" in uncompacted thickness.
- . Floor slabs thicknesses shall be required by the plans and underlain by a granular layer at least 4" thick. The granular layer shall have a maximum size less than 1" with not more than 5 percent passing a #200 sieve and shall be compacted to at least 90 percent of the maximum laboratory density as determined by ASTM D 1557.
- 6. Consult the project specifications for further earthwork requirements.

CONCRETE

- . Materials, unless noted otherwise:
- ASTM C 33 a. Normal weight aggregates
- Combined aggregate gradation for slabs on grade and other designated concrete shall be 8% 18% for large top size aggregates (1.1/2") or 8% - 22% for smaller top size aggregates (1" or 3/4") retained on each sieve below the top size and above the No. 100. The range for the No. 30 and No.50 sieves shall be 8% - 15% retained in each. To avoid gap gradation the following shall occur: 1. The percent retained on two adjacent sieves shall not fall below 5%.
- 2. The percent retained on three adjacent sieves shall not fall below 8%.
- 3. When the percent retained on two adjacent sieves is less than 8%, the total retained on either of these sieves and the adjacent outside sieve shall be at least 13%. See ACI 302 Section 5.4.3.3 for more information.

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Maximum Aggregate Size shall not be larger than:

1. 3.1/2" or 1/5 the narrowest dimension of the forms 2. 1/3 the depth of the slab 3. 3/4 the minimum clear spacing between bars b. Reinforcing Steel

c. Deformed Bar Anchors (DBA) d. Headed Stud Anchors (HSA) e. Anchor Rods

f. Admixtures:

Typical, uno

- Air-entraining admixtures shall comply with ASTM C 260 (when used). Calcium chloride shall not be added to the concrete mix.
- Water-reducing admixture shall comply with ASTM C 494/C 494M, Type A (when used) Retarding admixture shall comply with ASTM C 494/C 494M, Type B (when used).
- Water-reducing and retarding admixture shall comply with ASTM C 494/C 494M, Type D (when ٧. High-range, water-reducing and retarding admixture shall comply with ASTM C 494/C 494M Type G
- vi. High-range, water-reducing admixture shall comply with ASTM C 494/C 494M, Type F (when used).
- vii. (when used). viii. Admixture manufacturer shall have ISO 9001 Quality Certification. To ensure compatibility all
- admixtures shall be from the same manufacturer.
- the same for the entire job.
- h. The water/cementitious materials ratios shall meet the requirements of Table 19.3.2.1 of ACI 318-14. Fly Ash - ASTM C618, Class F – 25% maximum cementitious content.
- Provide air entraining as recommended by Table 19.3.3.1 of ACI 318-14. Concrete that extends above grade and is exposed to freezing and thawing while moist shall be air-entrained. Concrete in unconditioned spaces shall be considered site concrete.
- k. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.

318-14; Chapter 19): a. Interior Footings

Strength

Classification

- Only one grade or type of concrete shall be poured on the site at any given time. 4. The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork
- and shores. a. Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.
- 5. Reinforcement shall have the follow a. Cast-in-place Concrete
 - Cast against and permane Formed concrete exposed
 - #6 thru #18 bars #5 and smaller bars
 - Concrete not exposed to w Slabs, Walls and their pier Beams, Columns: Primary

6. Detailing:

c. At all discontinuous control or construction slab on grade joints, provide 2 - #4 x 48".

- 7. Construction Joints, Control (Contraction) Joints: a. Construction joints in all horizontal and vertical construction joints including between top of footing and foundation walls shall be intentionally roughened to a full amplitude of approximately 1/4". The laitance on the concrete (thin, flaky layer of harden, weakened hydrated cement) shall be mechanically removed from the surface after the concrete has achieved final set. Construction joints in slabs on grade shall not
- exceed a distance of 125'-0" o.c. in any direction.
- b. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than c. Where a steel to steel beam connection is not shown, provide a standard AISC framed connection for 1.25:1. Control joints shall be completed as soon as final set is achieved and it is okay to operate the one half the total uniform load capacity of the beam for the span and steel specified. cutter on the slab. Final set is typically achieved within the first 4 to 12 hours after the slab has been d. Bolts, nuts and washers shall not be reused. finished in an area (depending on weather conditions and concrete hydration rate; 4 hours in hot weather to 12 hours in cold weather). For early entry saw cutting, joints should be cut within the first 1 to 4 hours 5. Provide baseplate anchor rod connections to concrete elements that correlate with ACI 117. Circular or (depending on weather conditions and concrete hydration rate; 1 hour for hot weather and 4 hours for square washers are acceptable: cold weather). Where saw cut joints cannot be cut along the entire projected length of the joint, a 90degree hand grinder or other tool shall be used to complete the joint. Control joints may be installed by: Saw cut a depth of 1/4 the thickness of the slab $(1.1/4" \pm \text{ for early entry saws})$ minimum.

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- Tooled joints a depth of 1/4 the thickness of the slab 8. Construction a. Use chairs or other support devices recommended by the CRSI to support and tie reinforcement bars prior to placing concrete. Reinforcing steel for slabs on grade shall be adequately supported. Support reinforcing steel of slabs on grade with precast concrete units. Lifting the reinforcing off the grade during placement of concrete is not permitted.
- b. Concrete to be mechanically consolidated during placement per ACI standards. c. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts
- and other embedded items prior to concrete placement. d. All embeds, anchors and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the
- placement of concrete. e. No pipes, ducts, sleeves, etc shall be placed in structural concrete unless specifically detailed or approved by the structural engineer. Penetrations through walls when approved shall be built into the wall prior to concrete placement. Penetrations will not be allowed in footings or grade beams unless detailed. Piping shall be routed around footings and grade beams and unless detailed. Footings shall be stepped to avoid piping.

POST-INSTALLED ANCHORS

- 1. General Post-Installed Anchor Notes a. Do not install adhesive anchors in concrete if less than 21 days old; do not install mechanical anchors, screw anchor or powder actuated anchors in concrete less than 7 days old. Contractor must obtain written approval from the engineer to install prior to these time periods. Do not apply full load to anchors
- until concrete has reached 28-day compression strength. b. Anchors or adhesives specified in details shall be provided; alternative anchors or adhesives may be used if the contractor provides calculations demonstrating that the alternative can achieve the
- performance values of the specified product. These calculations, along with an ICC-ES ESR or IAPMO-UES ER approval for use in cracked concrete and compliant with the specified codes herein, must be submitted to the structural engineer prior to use. c. Follow all the manufacturer's recommendations and certification testing reports for anchor installation.
- See specific anchors below for more information. d. No anchor shall be installed within 1.5 anchor rod diameters of an abandoned hole that has been filled
 - with non-shrink grout; increase distance to 3 anchor rod diameters when the abandoned hole has not been filled.
- 2. Adhesive Anchors
- a. For anchors in concrete, the adhesives shall be divided into two groups: Standard Adhesives and High Strength Adhesives. Standard adhesives can be used in general applications when details reference the "Standard Adhesive Embedment Schedule" on sheet S501. High Strength adhesive groups will be specified for the particular application in the drawings and details. When a High Strength Adhesive is specified, the contractor has the option to use any of the adhesives in the High Strength group. When a Standard Adhesive is specified, the contractor has the option to use any of the adhesives in either group.
- See below for the acceptable adhesives in each group. . Standard Adhesive Group for anchors in concrete includes the following adhesives: 1. SET-XP (ICC-ES ESR-2508) by Simpson Strong-Tie
- 2. Pure 50+ (ICC-ES ESR-3576) by Dewalt
- 3. AC100+ Gold (ICC-ES ESR-2582) by Dewalt 4. HIT-RE 100 (ICC-ES ESR-3829) by Hilti, Inc.
- High Strength Adhesive Group for anchors in concrete includes the following adhesives:
- 1. SET-3G (ICC-ES ESR-4057) by Simpson Strong-Tie 2. Pure 110+ (ICC-ES ESR-3298) by Dewalt
- 3. AC200+ (ICC-ES ESR-4027) by Dewalt
- 4. HIT-RE 500-V3 (ICC-ES ESR-3814) by Hilti Inc. 5. HIT-HY 200 (ICC-ES ESR-3187) by Hilti Inc.

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b. Adhesive shall be within the manufacturer's recommended life time and prior to expiration date. Do not use adhesive that has not been stored per manufacturer's recommendations or may have experienced

GENERAL STRUCTURAL NOTES

- - ASTM 615 Grade 60 (Fy = 60 ksi) Use Grade 40 (Fy = 40 ksi) for field bent dowels with spacings indicated reduced by 1/3. ASTM A496
 - ASTM A108
 - ASTM F1554, Grade 36, with ASTM A563 heavy hex nuts
- and hardened washers Grade A
- g. Type V cement complying with ASTM C-150 shall be used for all concrete. Cement source shall remain
- 2. Compressive strengths of concrete at 28 days shall meet the follow performance requirements (see ACI-

3,000 psi F0, S0, W0, C0

Clear Cover	
3"	
2"	
1.1/2"	
3/4"	
1.1/2"	
	<u>Clear Cover</u> 3" 2" 1.1/2" 3/4" 1.1/2"

a. Lap splice lengths shall be detailed to comply with the "Concrete Reinforcing Bar Lap Splice Schedule" on sheet S501. Splices may be made with mechanical splices capable of 125% tension capacity of the bar being spliced. Mechanical splices shall be the positive connecting type coupler and shall meet all International Building Code requirements and shall have a current ICC-ES report or IAPMO Certification. Use "Lenton" Standard Couplers (ICC ER-3967), "Bar-Lock" (ICC ESR-2495) or equal with internal protector. If mechanical splices are used, splices or couplers on adjacent bars shall be staggered a minimum of 24" apart along the longitudinal axis of the reinforcing bars. b. At joints, provide reinforcing dowels to match the member reinforcing, unless noted otherwise.

Reinforcing Bars shall not be welded. Do not substitute reinforcing bars for DBAs or HSAs.

freeze thaw cycles or extreme heat.

- c. Do not install adhesive anchor in wet or damp hole unless product is approved for such condi without strength reduction. Do not install adhesive anchors if concrete temperature is below unless adhesive is approved for lower temperature without strength reduction. Refer to manu published installation instructions.
- d. Follow all the manufacturer's recommendations and certification testing reports regarding ho prior to adhesive installation. All holes shall be drilled with ANSI standard bits designed for ca Diamond core drilled holes are not allowed unless indicated in specific details or approved by structural engineer prior to use.

3. Mechanical Anchors

- a. For concrete, the mechanical anchor shall be Kwik Bolt TZ (ICC-ES ESR-1917) by Hilti Inc., 2 (ICC-ES ESR-3037) by Simpson Strong-Tie Inc. or Power-Stud+ SD2 (ICC-ES ESR-2502) 4. Screw Anchors
- a. For concrete, the screw anchors shall be Titen HD (ICC-ES ESR-2713 for concrete only) by Strong-Tie, or Screw-Bolt + (ICC-ER ESR-3889 for concrete only) by DeWalt or Kwik HUS-E ESR-3027 for concrete only) by Hilti Inc.
- Powder Actuated Fasteners a. For fasteners driven into steel (except at metal decks), the fastener shall be X-U P8 TH University Knurled Shank Fastener (ICC-ES ESR-2269) by Hilti Inc., PDPA (ICC-ES ESR-2138) by Sim Strong-Tie Inc. or 8mm Head Spiral CSI Drive Pin (ICC-ES ESR-2024) by Dewalt.

STRUCTURAL STEEL

1. Material:

- a. Wide Flanges Section b. All Thread Rods, Other Shapes & Plates
- c. Square or Rectangular HSS
- d. Deformed Bar Anchors (DBA) e. Headed Stud Anchors (HSA)
- f. Non-Metallic Shrinkage Resistant Grout ASTM C 1107
- g. Anchor Rods Typical, uno

- ASTM F1554, Grade 36, with ASTM A563 heavy
- h. Bolted Connections:
- nuts and ASTM F436 hardened washers Grade ASTM F3125 Grade A325 with ASTM A563 nuts ASTM F436 hardened washers.

- Fabrication and construction shall comply with the latest edition of the following Codes and Stan a. American Institute of Steel Construction (AISC), "Specification for the Design, Fabrication and Structural Steel for Buildings," with "Commentary"
- b. AISC "Code of Standard Practice" excluding the following: Section 3.2, Section 4.4, Section 4 c. AISC "Specification for Structural Joints Using High-Strength Bolts" d. American Welding Society (AWS), Structural Welding Code (specific items do not apply when
- conflict with the AISC requirements). e. AISC "Seismic Provision for Structural Steel Buildings"- ANSI/AISC 341 3. Welding
- a. Field weld flags that have been put in these documents are for suggestion only. The contract option to substitute shop welding for field welding or vice versa. The steel fabrication and stee drawings must clearly distinguish between shop welds and field welds prior to any work being b. Steel fabricators shall indicate the shop welds that are excluded from their bids. Steel erecto indicate the field welds that are excluded from their bids. It is the responsibility of the contract coordinate shop welding and field welding with the appropriate subcontractors.
- c. All welding and cutting shall be performed by AWS certified welders.
- d. Use E-70 XX (58 ksi yield, 70 ksi tensile) unless noted otherwise. e. All intersecting steel shapes which are not bolted shall be connected by a fillet weld all around noted otherwise. Where fillet weld sizes are not shown they shall be 1/16" less than the thin connected parts for thicknesses 1/4" and larger. Fillet welds on plates less than 1/4" shall be same size as the thinnest of the connected part.
- f. Reinforcing Bars: Do not weld rebar. Do not substitute reinforcing bars for deformed bar and (DBAs), machine bolts, or headed stud anchors (HSAs). g. Do not weld anchor bolts, including "tack" welds.
- h. Headed Stud Anchors (HSAs) welding and deformed bar anchor welding shall conform to the manufacturer's specifications.

4. Bolted Connections:

- a. Use bolts for steel to steel connections, as noted herein or as noted on the drawings. Bolts s in connections for simple span framing and beam (or girder) to bearing plate connections. T to a snug tight condition. See sheet S501
- b. Use hardened washers beneath the turned element of all bolts or nuts. Use hardened bevele to compensate for the lack of parallelism, where the outer face of the bolted parts has a slope than one in twenty with respect to the plane normal to the bolt axis. At oversized holes hardened washers or plates shall conform with ASTM F-436 and shall completely cover the slot after installation.

ANCHOR ROD	HOLE	WASHER	WASHER
DIAMETER	DIAMETER	SIZE	THICKENESS (MIN)
3/4"	1.5/16"	2"	1/4"
7/8"	1.9/16"	2.1/2"	5/16"
1"	1.7/8"	3"	3/8"
1.1/4"	2.1/8"	3.1/2"	1/2"
1.1/2"	2.3/8"	4"	1/2"
1.3/4"	2.7/8"	4.1/2"	5/8"
2"	3.1/4"	5"	3/4"
2.1/2"	3.3/4"	5.1/2"	7/8"

Provide full-depth web-stiffener plates at each side of all beams at all bearing points. Stiffener plates shall be the thickness called out below unless noted otherwise and shall be welded both sides with fillet welds all around:

2

FLANGE WIDTH	STIFFENER THICKNESS	WELD SIZE
Less than 8.1/4"	1/4"	3/16"
8.1/4" to 12.1/4"	3/8"	1/4"
12.1/4" to 16.1/2"	1/2"	5/16"
16.1/2" to 20.3/4"	5/8"	3/8"

		LEGEND OF MARKS A		VIATIONS
mp hole unless product is approved for such conditions	AB	ANCHOR BOLT(S)	k	KIP(S) = 1000 POUNDS
dhesive anchors if concrete temperature is below 50-degree F	ABV	ABOVE	KLF	KIPS PER LINEAL FOOT
perature without strength reduction. Refer to manufacturer's	ALT	ALTERNATE	KSF	KIPS PER SQUARE FOOT
	APPROX	APPROXIMATE		
tions and certification testing reports regarding hole cleaning	ARCH	ARCHITECT(URAL)	LBS	POUNDS
II be drilled with ANSI standard bits designed for concrete.			LF	LINEAL FOOT
unless indicated in specific details or approved by the	BLDG	BUILDING	LLH	LONG LEG HORIZONTAL
	BLW	BELOW	LLV	LONG LEG VERTICAL
	BM	BEAM	LSH	LONG SIDE HORIZONTAL
na Kwik Balt TZ (ICC ES ESB 1017) hy Hilti Ina Strong Balt	BOT	BOTTOM	LSV	LONG SIDE VERTICAL
Tie Inc. or Dower Studt SD2 (ICC ES ESP 2502) by Dowelt	BRG	BEARING		
The flic. of Power-Study SD2 (ICC-ES ESR-2502) by Dewalt.	BTWN	BETWEEN	MAX	MAXIMUM
			MECH	MECHANICAL
iten HD (ICC-ES ESR-2713 for concrete only) by Simpson	CC.	CENTER-TO CENTER	MFR	MANUFACTURER
3880 for concrete only) by DeWalt or Kwik HUS-EZ (ICC-ES	CGS	CENTER OF GROSS STEEL	MIN	MINIMUM
boos for concrete only) by Dewart of Rwik 1103-EZ (100-ES	C.J.	CONST/CONTROL JOINT	MISC	MISCELLANEOUS
	COL	COLUMN		
	CONC	CONCRETE	NIC	NOT IN CONTRACT
etal decks) the factorial shall be X-II P8 TH Universal	CONST	CONSTRUCTION	NTS	NOT TO SCALE
(a) by Hilti Inc. DDDA (ICC-ES ESB-2138) by Simpson	CTR	CENTER		
ive Pin (ICC ES ESP 2024) by Dewalt	CW-x	CONCRETE WALL	O.C.	ON CENTER
We Fill (ICC-ES ESR-2024) by Dewalt.			O.F.	OUTSIDE FACE
	DB	DECK BEARING	OPNG	OPENING
	DBA	DEFORMED BAR ANCHOR	OPP	OPPOSITE
	DBE	DECK BEARING ELEVATION		
	DBL	DOUBLE	PAF	POWDER-ACTUATED FASTENER
ASTM A992 (50 ksi)	DET	DETAIL	PCF	POUNDS PER CUBIC FOOT
ASTM A36 (36 ksi)	DIA	DIAMETER	PL	PLATE
ASTM A500 (50 ksi) Grade C or ASTM A1085 (50ksi)	DIM	DIMENSION	PLF	POUNDS PER LINEAL FOOT
ASTM A496	DN	DOWN	PSF	POUNDS PER SQUARE FOOT
ASTM A108	DWG	DRAWING	PSI	POUNDS PER SQUARE INCH
ASTM C 1107	DWL	DOWEL	PT	POINT
ASTM F1554, Grade 36, with ASTM A563 heavy hex	(E)	EXISTING	REINF	REINFORCING
nuts and ASTM F436 hardened washers Grade A	EA	FACH	REOD	REQUIRED
ASTM F3125 Grade A325 with ASTM A563 nuts and	E.F.	EACH FACE	R.D.	ROOF DRAIN
ASTM F436 hardened washers.	E.J.	EXPANSION JOINT	RTU	ROOF TOP UNITS
	ELEC	ELECTRICAL	0.000	
the latest edition of the following Codes and Standards:	ELEV	ELEVATION	SBP-x	STEEL BASE PLATE MARK
ISC), "Specification for the Design, Fabrication and Erection of	EQUIP	EQUIPMENT	SCW	SEISMIC CRITICAL WELD
entary".	EQ	EQUAL	SC-x	STEEL COLUMN MARK
g the following: Section 3.2, Section 4.4, Section 4.4.1,	E.W.	EACH WAY	SCP-x	STEEL CAP PLATE MARK
ing High-Strength Bolts"	EXST	EXISTING	SHT	SHEET
al Welding Code (specific items do not apply when they	EXT	EXTERIOR	SI	SPECIAL INSPECTION
			SIM	SIMILAR
el Buildings"- ANSI/AISC 341	FC-x	CONTINUOUS FOOTING MARK	SMU	SUSPENDED MECHANICAL UNITS
	F.D.	FLOOR DRAIN	SOG	SLAB-ON-GRADE
e documents are for suggestion only. The contractor has the	FDN	FOUNDATION	SQ	SQUARE
elding or vice versa. The steel fabrication and steel erection	F.F.	FINISHED FLOOR	STAG	STAGGERED
shop welds and field welds prior to any work being performed.	FR-x	RECTANGULAR FOOTING	STD	STANDARD
lds that are excluded from their bids. Steel erectors shall	FS-x	SQUARE FOOTING MARK	STL	STEEL
om their bids. It is the responsibility of the contractor to	FT	FOOT	STR	STRUCTURAL
with the appropriate subcontractors.	FTG	FOOTING	STS	SELF TAPPING SCREWS
by AWS certified welders.	FTS-x	THICKENED SLAB MARK		
nless noted otherwise.			T&B	TOP AND BOTTOM
bolted shall be connected by a fillet weld all around, unless	GA	GAUGE	TEMP	TEMPERATURE
e not shown they shall be 1/16" less than the thinnest of the	GALV	GALVANIZED	THDS	THREADS
rger. Fillet welds on plates less than 1/4" shall be of the	GSN	GENERAL STRUCTURAL NOTES	T.O.	TOP OF
part.			TOC	TOP OF CONCRETE
ot substitute reinforcing bars for deformed bar anchors	HORI7	HORIZONTAL	TOD	TOP OF DECK
hors (HSAs).	HSA	HEADED STUD ANCHOR	TOF	
velds.	HT	HEIGHT	TOS	TOP OF STEEL
deformed bar anchor welding shall conform to the		ne.em	TOW	TOP OF WALL
·			TYP	τγριζαι
	ICC	INTERNATIONAL CODE COUNCIL		THICKL
	IBC	INTERNATIONAL BUILDING CODE	LINO	LINI ESS NOTED OTHERWISE
noted herein or as noted on the drawings. Bolts shall be used	I F		0110	
beam (or girder) to bearing plate connections. Tighten bolts	IN IN		VERT	VERTICAL
	INT		VEIN	VENTICAL
element of all bolts or nuts. Use hardened beveled washers.		INTERIOR .	W//	\\//ТЦ
here the outer face of the bolted parts has a slope greater	TL	IOINT	WT	WALL THICKNESS

JOIST

1

WWF

WWM

WELDED WIRE FABRIC

WELDED WIRE MESH

JST

Special inspection and quality a	ssurance (including structural testing), as required by section 1704 and 1705 of t
provided by an independent ag	ency employed by the owner for the items in this section and other areas of the
construction documents, unless	s waived by the building official.
The names and credentials of the	he Special Inspectors to be used shall be submitted to the Building Official for app
Responsibilities of the S	pecial Inspector
	Special Inspector shall review all work listed in the special inspecti
	for conformance with the approved construction plans, specificati
	Testing and inspection reports shall be sent on a weekly basis to the
	engineer, building official and contractor for review. All items not
	be brought to the immediate attention of the contractor for corre
	uncorrected, to the architect, engineer and building official.
	Once corrections have been made by the contractor, the special ir
	a final signed report to the building official stating that the work re
	inspection was, to the best of the special inspector's knowledge, in
	the approved construction plans, specifications and 2018 IBC.
Responsibilities of the C	ontractor
	The contractor shall submit a written statement of responsibility t
	building official prior to the commencement of work in accordance
	section 1704.4. This statement shall indicate that the contractor v
	cooperate with the required inspections contained herein.
	The contractor shall notify the designated special inspector that w
	inspection at least 24 hours before said inspection is required.
	All work requiring special inspection shall remain open and access
	observed by the special inspector and deemed acceptable through
	Special inspection during fabrication is not required if the fabrication
	approved by the authority having jurisdiction to perform such wo
	inspection. Upon completion of fabrication, the approved fabrication
	certificate of compliance for submittal to the building official.

SOILS CONSTRUCTION INSPECTIONS Soils (2018 IBC Section 1705.6)

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4

	INSPECTION FI	REQUENCY	CONAMENTS
TENTFOR VERIFICATION & INSPECTION	CONTINUOUS	PERIODIC	COMMENTS
Site Preparation	-	x	Verify that the site has been prepared in the Earthwork section of the General Stru- and per recommendations by a geotechr required) prior to placement of prepared
Fill Material	x	-	Verify that the material being used, the r thickness and the in-place dry density of fill material comply with the Earthwork s General Structural Notes and per recomr geotechnical engineer (if required) during compaction.
Continuous Footing Backfill: at least one test for each 40 linear feet or less of wall length, but no fewer than 2 tests.	-	x	At each compacted backfill layer.
Spot Footing Backfill: Minimum of one compaction test for each lift for each spot footing.	-	x	At each compacted backfill layer.

CONCRETE CONSTRUCTIC	ON INSPEC	TIONS	
Concrete (2018 IBC Section 1705.3,	Table 1705.3,	and Section	on 1705.12) The following concre
require special inspection:			
All concrete footings			
	INSPECTION F	REQUENCY	COMMENTS
	CONTINUOUS	PERIODIC	COMMENTS
Protection of concrete during cold and hot weather	-	X	
Verify materials used including use of the required mix design	-	X	Verify mix design meets strength requirements listed on General Stru
Formwork	-	x	Verify shape, location and member
Bolts installed in concrete	x	-	Inspection of anchors or embeds case required when allowable loads increased or where strength design to and during concrete placement.
Embeds and Inserts installed in concrete	X	-	Prior to and during concrete placem
Concrete reinforcing steel placement	-	X	Verify that reinforcing is of specifiand size; that it is free of oil, dirt and located and spaced properly; that ties, stirrups and supplemental rein placed correctly; that lap lengths offsets are provided; and that connections are installed per the instructions and/or evaluation report
Concrete placement and samples	x	-	Cylinders, slump, temperature and a shall be done for every 150 cubic day's production if the day's product

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REQUIREMENTS FOR SPECIAL INSPECTION, MATERIAL TESTING, AND STRUCTURAL OBSERVATION

IN	ISPECTIC	N AND	QUALITY ASSURANCE	STEEL BOLTED CONSTRUC	TION INS	PECTION	IS	Inspection Tasks After Welding
nclu vec	iding structural t by the owner fo	esting), as re or the items i	quired by section 1704 and 1705 of the 2018 IBC, shall be n this section and other areas of the approved	Where special inspections are listed under	Welds cleaned			
the	building official	Iding official. under "Every Element", special inspection shall be performed for each element, joint, or member, as applicable based or					element, joint, or member, as applicable based on	Size. length and location of welds
nsp s pe	ectors to be used ector	d shall be sub	mitted to the Building Official for approval.	the task listed below.		tion 1705 2	1 section 1705 12 1 and section 1705 13 1	
	Special Inspecto	r shall review	all work listed in the special inspection schedules herein	and AISC 360-16 Chapter N and AISC	C 341-16 Cha	apter J)	1, Section 1705.12.1 and Section 1705.15.1	Welds meet visual acceptance crite
-	for conformance Testing and insp	e with the appression report	proved construction plans, specifications and 2018 IBC. s shall be sent on a weekly basis to the architect.	•	INSPECT	ION PLAN		Arc strikes, k-area, weld access ho
	engineer, buildir	ng official and	I contractor for review. All items not in compliance shall	ITEM FOR VERIFICATION & INSPECTION	Every Flement	Random Basis	COMMENTS	flanges greater than 2", b
	uncorrected, to th	the architect	engineer and building official.	Inspection Tasks Prior to Bolting				required), repair activities
	Once correction	s have been i port to the bi	nade by the contractor, the special inspector shall submit uilding official stating that the work requiring special	Manufacturer's certifications available				
	inspection was,	to the best of	the special inspector's knowledge, in conformance with	for fastener materials	X	-		Ultrasonic testing (UT) for com
 r	the approved co	instruction pl	ans, specifications and 2018 IBC.	Fasteners	-	X	Marked in accordance with ASTM requirements	partial penetration (CP) groove welds
	The contractor s	hall submit a	written statement of responsibility to the owner and the	Proper fasteners selected for the joint detail	-	X	Including grade, type, bolt length if threads are to be excluded from shear plane.	used in column splices, and
	building official section 1704.4.	prior to the c This stateme	ommencement of work in accordance with 2018 IBC nt shall indicate that the contractor will coordinate and	Proper bolting procedure selected for	_	x		subject to fatigue
	cooperate with t	the required	nspections contained herein.	joint detail			Including the appropriate faving surface	Document acceptance or rejecti
	Ine contractor s inspection at lea	shall notify th 1st 24 hours b	e designated special inspector that work is ready for effore said inspection is required.	Connecting elements	-	X	condition and hole preparation, if specified, meet	each welded joint or member
	All work requirin	ng special insp special inspecial	pection shall remain open and accessible until it has been	Pre-installation verification testing by			applicable requirements	POST-INSTALLED ANC
	Special inspectic	on during fab	rication is not required if the fabricator is registered and	installation personnel observed and	_	×	Not required if only snug-tight joints are specified	ITEM FOR VERIFICATION &
	approved by the inspection. Upo	authority ha	ving jurisdiction to perform such work without special of fabrication, the approved fabricator shall submit a	documented for fastener assemblies and methods used			per [Section N5.6(1) of AISC 360-16])	INSPECTION
	certificate of cor	mpliance for	submittal to the building official.	Proper storage	_	Y	Storage provided for bolts, nuts, washers and	Post-installed Alichors and Ri
	fabrication, erec	tion, etc.	nsible for their own quality control including materials,	Inspection Tasks Duving Politing		^	other fastener components	
	DECTION	c					Verify that fasteners placed in all holes and	Adhasiva Anchors and Dainfarsi
13	PECTION	5		Fastener assemblies, of suitable condition	-	X	washers (if required) are positioned as required.	Bars
	INSPECTION FF	REQUENCY		Joint	-	x	Verify that joint brought to the snug-tight condition (min) unless noted otherwise	
	CONTINUOUS	PERIODIC	COMMENTS	Eastener component		v	Verify that fastener component not turned by the	
			Verify that the site has been prepared in accordance with the Earthwork section of the General Structural Notes		-	X	wrench prevented from rotating	
	-	X	and per recommendations by a geotechnical engineer (if				pretensioned in accordance with the RCSC	Mechanical Anchors and Scre
			Verify that the material being used, the maximum lift				Specification, progressing systematically from the	Anchors
			thickness and the in-place dry density of the compacted fill material comply with the Earthwork section of the	Pretensioned Fasteners	-	X	required if only snug-tight joints are specified per	
	X	-	General Structural Notes and per recommendations by a				[Section N5.6(1) of AISC 360-16]; Not required for	STRUCTURAL OBSERV
			compaction.				with match-marking, direct-tension-indicators or	If structural observations are requ
st h,	_	x	At each compacted backfill layer.	Inspection Tasks After Bolting			twist-off type tension control bolt methods)	stages of construction listed in the the designated structural observer
			At each compacted backfill layor	Document acceptance or rejection of	v			made and identify any reported de
ot	-	x	At each compacted backfill layer.	each bolted connection	X	-		(See IBC 2018 1704.6).
				STEEL WELDED CONSTRUC		SPECTION	NS	STRUCTURAL OBSERVATIO
0	N INSPEC	TIONS		Definition of Terms				
3, '	Table 1705.3	, and Secti	on 1705.12) The following concrete elements	Where special inspections are listed under	"Random Bas	sis", special ins	spection of elements and items shall be performed	CONSTRUCTION MILES
				on a random basis. Operations need not b	e delayed pen	ding these ins	pections. Where special inspection items are listed	CONTRACTOR TO NOTIFY EN
	INSPECTION F	REQUENCY	COMMENTS	the task listed below.	shall be perfo	rmed for each	element, joint, or member, as applicable based on	CONCRETE
4 	CONTINUOUS	PERIODIC		Structural Welding (2018 IBC section	n 1705.2 and	section 170	5.12.1 and section 1705.13.1 and AISC 360-	Footings
	-	X		16 Chapter N and AISC 341-16 Chap	ter J)			DEFERRED SUBMITTA
f	-	x	Verify mix design meets strength and exposure requirements listed on General Structural Notes	ITEM FOR VERIFICATION & INSPECTION	Every	Random	COMMENTS	For the purposes of this section,
	-	x	Verify shape, location and member dimensions		Element	Basis		for general conformance with the o
			Inspection of anchors or embeds cast in concrete is	Inspection Tasks Prior to Welding		1		DEFERRED STRUCTURAL SUB
	х	-	required when allowable loads have been	Welding procedures specifications and manufacturer certifications for welding	Y	_	Welding procedures shall be submitted to the	None
			to and during concrete placement.	consumables shall be available	Λ		Engineer of Record for review.	
e	X	-	Prior to and during concrete placement.	Material identification (type/grade)	-	X		
			Verify that reinforcing is of specified type, grade	Welder identification system	-	X	Verify there is a system in place to identify the welder who has welded a joint or member	
			and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends,				Including joint geometry, joint preparation,	
	-	x	ties, stirrups and supplemental reinforcement are	Fit-up of groove welds	-	X	dimensions, cleanliness, tacking and backing type	
			placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical	Configuration and finish of access holes		v		
			connections are installed per the manufacturer's				Including alignment gans at root dimensions	
			Instructions and/or evaluation report. Cylinders, slump, temperature and air-entrainment	Fit-up of fillet welds	-	X	cleanliness and tacking.	
			shall be done for every 150 cubic yards or each	Check welding equipment	-	x		
	Х	-	aay's production if the day's production is less than 150 cubic yards nor less than once for each 5000 sa.	Inspection Tasks During Welding				
			ft of surface area for slabs and walls.	Use of qualified welders	-	x		
				Control and handling of welding	_	x	Including packaging and exposure control	
				concumentes				
				consumables Cracked tack welds		v	Verify no welding over cracked tack welds	
				consumables Cracked tack welds	-	X	Verify no welding over cracked tack welds.	
				consumables Cracked tack welds Environmental conditions	-	X X	Verify no welding over cracked tack welds. Including wind speed within limits and precipitation and temperature	
				consumables Cracked tack welds Environmental conditions	-	X X	Verify no welding over cracked tack welds. Including wind speed within limits and precipitation and temperature Including settings on welding equipment, travel speed, selected welding materials shielding gas	
				consumables Cracked tack welds Environmental conditions WPS followed	-	X X X	Verify no welding over cracked tack welds. Including wind speed within limits and precipitation and temperature Including settings on welding equipment, travel speed, selected welding materials, shielding gas type/flow rate, preheat applied, interpass	
				consumables Cracked tack welds Environmental conditions WPS followed	-	x x x	Verify no welding over cracked tack welds. Including wind speed within limits and precipitation and temperature Including settings on welding equipment, travel speed, selected welding materials, shielding gas type/flow rate, preheat applied, interpass temperature (min./max.) maintained, proper position (F, V, H, OH)	
				consumables Cracked tack welds Environmental conditions WPS followed	-	X X X	Verify no welding over cracked tack welds. Including wind speed within limits and precipitation and temperature Including settings on welding equipment, travel speed, selected welding materials, shielding gas type/flow rate, preheat applied, interpass temperature (min./max.) maintained, proper position (F, V, H, OH) Including interpass and final cleaning, each pass	
				consumables Cracked tack welds Environmental conditions WPS followed Welding techniques	- - -	x x x x	Verify no welding over cracked tack welds. Including wind speed within limits and precipitation and temperature Including settings on welding equipment, travel speed, selected welding materials, shielding gas type/flow rate, preheat applied, interpass temperature (min./max.) maintained, proper position (F, V, H, OH) Including interpass and final cleaning, each pass within profile limitations, each pass meets quality requirements	

3

	-	X	
	х	-	
eria	x	-	Including crack prohibition, weld/base-metal fusion, crater cross section, weld profiles, weld size, undercut and porosity.
les for acking ved (if	x	-	When welding of doubler plates, continuity plates, or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3" of the weld.
nplete- welds, when welds	-	X	Perform UT on 10% of welds subject to transversely applied tension loading in butt, T- and corner joints, in material 5/16" thick or greater. For materials less than 5/16" thick, ultrasonic testing is not required. The UT rate must be increased to 100% if the rejection rate exceeds 5% of the welds tested. See Sections N5.5d and N5.5f for more information.
ion of	V	_	

X -CHOR INSPECTIONS

	INSPECTION FRE	QUENCY	CONAMENITS					
	CONTINUOUS	PERIODIC	CONIVIENTS					
ein	forcing Bars (20	18 IBC Sec	ction 1705.1.1)					
ng	X	-	Special inspection shall be performed per manufacturer's requirements and approved ICC-ES reports noted in POST-INSTALLED ANCHOR section of the General Structural Notes prior to installation of epoxy and anchor rod. If the anchor is not installed in a horizontal, upwardly inclined or overhead orientation meant to resist sustained tension loads, special inspection may be reduced to a periodic frequency.					
ew	-	x	Special inspection shall be provided per manufacturer's requirements and approved ICC-ES reports noted in POST-INSTALLED ANCHOR section of the General Structural Notes prior to installation of mechanical or screw anchor.					

RVATION PROGRAM

quired, they shall be done by the Engineer of Record or an approved subordinate at the e Construction Notification Phases section of these notes. At the conclusion of the project, er shall submit to the building official a written statement that the site visits have been deficiencies that to the best of the structural observer's knowledge have not been resolved

ON PROGRAM REQUIRED BY	YES	NO
ODE:	X	

ESTONE SCHEDULE

INGINEER AT THE FOLLOWING CONSTRUCTION PHASES:

Prior to pouring concrete

LS

2

n, deferred submittals are defined as per section 107.3.4.1 of the IBC 2018. Submittal al items shall be submitted to the engineer, architect and building official for their review e design of the building.

1

BMITTALS FOR THIS PROJECT ARE

STEEL COLUMN SCHEDULE							
MARK	SIZE	STEEL BASE PLATE	STEEL CAP PLATE	COMMENTS			
SC-4A	HSS4x4x3/8	1" (SBP-1)	1/2" (SCP-2)				

	MECHANICAL LEGEND										
SYMBOL	ABR,	DESCRIPTION	SYMBOL	ABR,	DESCRIPTION	SYMBOL	ABR,	DESCRIPTION	SYMBOL	ABR,	DESCRIPTION
	GEN	ERAL TERMINOLOGY			AIR SIDE			WET SIDE		V	VET SIDE
A		- SECTION LETTER DESIGNATION			EXISTING AIR DUCT TO BE REMOVED			PUMP	_ >		PITCH DOWN
ME101 -		- SECTION DRAWN ON THIS SHEET			EXISTING AIR DUCT TO REMAIN	(R)		REGULATOR	 		ELBOW UP/DN
		DETAIL NUMBER DESIGNATION			NEW AIR DUCT			UNION	-0\$		TEE UP/DN
AZ T		CORRESPONDING WITH GRID			RECT TO RECT AIR DUCT TAKE-OFF	ΓΤ		MANUAL ACTUATOR			EXISTING PIPING TO BE REMOVED
AH		MECHANICAL EQUIPMENT DESIGNATION			RECT TO RND AIR DUCT TAKE-OFF	Ŷ		PNUEMATIC DIAPHRAM ACTUATOR			EXISTING PIPING TO REMAIN
1		- EQUIPMENT ITEM DESIGNATION			RND TO RND AIR DUCT TAKE-OFF	Μ		ELECTRIC MOTOR ACTUATOR			NEW PIPING
D-1		REGISTER, GRILLE OR DIFFUSER			MEDIUM PRESSURE TAKE-OFF	S		SOLENOID ACTUATOR]		PIPE CAP OR PLUG
CFM		DESIGNATION WITH BALANCING CFM LISTED BELOW	H+++++++++++++++++++++++++++++++++++++		FLEXIBLE AIR DUCT	— [BUTTERFLY VALVE			REDUCER - CONCENTRIC / ECCENTRIC
		GRILLE OR LOUVER DESIGNATION			LINED DUCT			GATE VALVE			EXPANSION JOINT
R-1		WHERE BALANCING NOT REQUIRED	Ľ <u>⊊</u>		RADIUS ELBOW			GLOBE VALVE - STRAIGHT PATTERN			FLEXIBLE CONNECTION
$\underline{1}$		REVISION DESIGNATOR AND NUMBER			ECCENTRIC DUCT TRANSITION	<u>ک</u>		GLOBE VALVE - ANGLE PATTERN	—X—		ANCHOR POINT
$\langle 1 \rangle$		KEY NOTE DESIGNATOR AND NUMBER			CONCENTRIC DUCT TRANSITION			MOTORIZED 2-WAY CONTROL VALVE		CD	CONDENSATE DRAIN
	POC	POINT OF CONNECTION			VOLUME DAMPER			MOTORIZED 3-WAY CONTROL VALVE		G	NATURAL GAS PIPING
	POR	POINT OF REMOVAL			SUPPLY AIR DIFFUSER		PRV	PRESSURE REDUCING VALVE		CF	CHEMICAL FEED LINE
AFF		ABOVE FINISHED FLOOR			RETURN & TRANSFER AIR GRILLE			CHECK VALVE		GF	GLYCOL FILL LINE
AP		ACCESS PANEL			EXHAUST GRILLE OR CEILING EXH. FAN	¥		CIRCUIT BALANCING VALVE		MU	MAKE-UP WATER LINE
C EL.		CENTERLINE ELEVATION			RETURN & OUTSIDE AIR DUCT UP/DN	—ф—		BALL VALVE		CW	CULINARY COLD WATER
GC		GENERAL CONTRACTOR			RETURN & OA ROUND DUCT UP/DN			PRESSURE RELIEF VALVE		HW	CULINARY HOT WATER
MC		MECHANICAL CONTRACTOR			SUPPLY AIR DUCT UP/DN	₹ T		THERMAL RELIEF VALVE		HWREC	CULINARY HOT WATER RECIRC
ATC		CONTROLS CONTRACTOR			SUPPLY AIR ROUND DUCT UP/DN	₽ s		SAFETY RELIEF VALVE		HWS	HEATING WATER SUPPLY
EC		ELECTRICAL CONTRACTOR			EXHAUST AIR DUCT UP/DN			PLUG VALVE		HWR	HEATING WATER RETURN
FPC		FIRE PROTECTION CONTRACTOR			EXHAUST AIR ROUND DUCT UP/DN	↓		NEEDLE VALVE		CHWS	CHILLED WATER SUPPLY
NIC		NOT IN CONTRACT		AP	ACCESS PANEL	\dashv \vdash		TRIPLE DUTY VALVE		CHWR	CHILLED WATER RETURN
NTS		NOT TO SCALE			EXISTING EQUIPMENT TO BE REMOVED			AUTOMATIC AIR VENT		HTWS	HIGH TEMP HEATING WATER SUPPLY
VCP		VITRIFIED CLAY PIPE			EXISTING EQUIPMENT TO REMAIN	· 년·		MANUAL AIR VENT		HTWR	HIGH TEMP HEATING WATER RETURN
С		COMMON			NEW EQUIPMENT			STRAINER		LPS	LOW PRESSURE STEAM
NC		NORMALLY CLOSED	SA		SUPPLY AIR	Ray Contraction		STRAINER W/ PLUG BLOW OFF		LPR	LOW PRESSURE STEAM RETURN
NO		NORMALLY OPEN	RA		RETURN AIR			VENTURI		HPS	HIGH PRESSURE STEAM
			EA		EXHAUST AIR	<u> </u>		PRESSURE GAUGE W/ COCK - WATER		HPR	HIGH PRESSURE STEAM RETURN
			OA		OUTSIDE AIR	O		PRESSURE GAUGE W/ COCK - STEAM		CS	CONDENSER SUPPLY
			MA		MIXED AIR			THERMOMETER & THERMOWELL		CR	CONDENSER RETURN
			RF		RELIEF AIR					PC	PUMPED CONDENSATE
			FO		FLAT OVAL	[S] 		WATER TEMP SENSOR & THERMOWELL		L	REFRIGERANT LIQUID
			M	MVD	MOTORIZED VOLUME DAMPER	[F] 		FLOW SWITCH		S	REFRIGERANT SUCTION
			BD	BD	BACKDRAFT DAMPER	PS		PRESSURE SWITCH		HG	REFRIGERANT HOT GAS
				FD	FIRE DAMPER	U		THERMOWELL		FOS	FUEL OIL SUPPLY
			S	SD	SMOKE DAMPER	T		PRESSURE & TEMP TAP		FOR	FUEL OIL RETURN
			FS>	FS	FIRE & SMOKE DAMPER	- T IBT		INVERTED BUCKET STEAM TRAP		FOV	FUEL OIL VENT
			(T)	T-STAT	WALL MOUNTED THERMOSTAT	$-\otimes_{\overline{TT}}$		THERMOSTATIC STEAM TRAP			
			S		WALL MOUNTED TEMP. SENSOR			FLOAT & THERMOSTATIC STEAM TRAP			
			H	H-STAT	WALL MOUNTED HUMIDISTAT			DIRECTION OF FLOW			
			F	F-STAT	WALL MOUNTED FIRESTAT	@		BACKFLOW PREVENTING VALVE			

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	GENERAL NOTES
	<u>G-1</u> - MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION OF THE EXISTING BUILDING AND SITE CONDITIONS, EXISTING PIPING, EXISTING ELECTRICAL, AND EXISTING SUPPORTS.
	A - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.
VED	B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.
CENTRIC	C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.
	D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.
	E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.
	<u>G-2</u> - ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO CHANGES FOR APPROVAL. CONTRACTOR SHALL NOT START ANY CHANGES UNTIL NOTIFIED IN WRITING. IF CHANGES ARE MADE PRIOR TO APPROVAL CONTRACTOR SHALL TAKE ALL RESPONSIBILITY FOR THE CHANGES MADE AND ALL COSTS RELATING TO FAILURE OR REPLACEMENT OF ALTERATIONS.
	<u>G-3</u> - CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.
C	<u>G-4</u> - THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR BLOCKOUTS OR CORE DRILLS THROUGH STRUCTURE.
	G-5 - THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.
	<u>G-6</u> - MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL SMOKE AND FIRE DAMPERS AS REQUIRED BY LOCAL CODES AND AUTHORITIES.
	G-7 - SHEET METAL DUCT SIZES SHOWN ON DRAWINGS ARE FREE AREA DIMENSIONS.
SUPPLY	<u>G-8</u> - PROVIDE AND INSTALL BALANCING DAMPERS IN ALL SUPPLY AND EXHAUST AIR BRANCH DUCTS. BALANCE TO CFM SHOWN ON PLAN.
KEIUKN	<u>G-9</u> - SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS AND GRILLES.
RN	G-10 - PROVIDE TURNING VANES IN ALL ELBOWS OF RECTANGULAR DUCT.

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<u>G-11</u> - THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN HANDLING AND DISPOSING OF REFRIGERANTS, OILS, ETC. ALL SUCH MATERIALS SHALL BE HANDLED, DISPOSED, AND USED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.

<u>G-12</u> - THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWING BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.

<u>G-13</u> - C.F.M. LISTED IS ACTUAL AIR.

<u>G-14</u> - SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.

<u>G-15</u> - CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.

<u>G-16</u> - ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2018 EDITION OF THE IMC AND IPC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

<u>G-17</u> - THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE DRAINING DOWN AND RE-FILLING OF ALL SYSTEMS NECESSARY TO COMPLETE THE WORK OUTLINED BY THIS PROJECT. THIS INCLUDES PROVIDING THE REQUIRED CHEMICAL TREATMENT WHEN RE-FILLING THE SYSTEM.

<u>G-18</u> - ALL PIPING, MATERIALS, ETC. SHALL BE NEW AND <u>DOMESTIC</u> MADE UNLESS SPECIFICALLY AUTHORIZED IN WRITING PRIOR TO BID.

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<u>G-19</u> - PROVIDE FIRE SPRINKLER MODIFICATIONS PER PERFORMANCE SPECIFICATION THROUGH NICET LEVEL 3 CERTIFIED DESIGN BUILD FIRE SPRINKLER CONTRACTOR.

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SHEET NOTES

- REMOVE EXISTING DIFFUSERS, GRILLES, DUCTWORK, HANGARS, AND ALL ASSOCIATED ITEMS TO THIS APPROXIMATE LOCATION. FIELD VERIFY. CAP IF NEW DUCT IS NOT BEING INSTALLED. SEE NEW PLANS. DEMOLISH EXISTING AIR DEVICE IN
- DEMOLISH EXISTING AIR DEVICE IN THIS APPROXIMATE LOCATION. FIELD VERIFY.
- B DEMOLISH COMPUTER ROOM UNIT AND ASSOSIATED ITEMS IN THIS APPROXIMATE LOCATION; FIELD VERIFY.

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	Image: constraint of the second se	D-3 250 D-3 200 D-3 20	D-3	D-3 250 D-3 250 D-3 250 D-3 250 D-1 D-1 D-1 D-1 D-1 D-1 D-1 D-1 D-1 D-1
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SHEET NOTES

GENERAL NOTES:

1. REBALANCE ALL DIFFUSERS TO CFM SHOWN BY A CERTIFIED 3RD PARTY TAB CONTRACTOR. SEE SPECIFICATION FOR MORE INFORMATION.

		FACE
	MAX	
TAG	FLOW	LENGTH
D-1	100 CFM	24"
D-2	200 CFM	24"
D-3	375 CFM	24"
R-1	600 CFM	24"
R-2	1,200 CFM	24"

1. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS. 2. FINISH SHALL BE SPECIFIED BY ARCHITECT.

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PLUMBING LEGEND						
MEANING	SYMBOL OR ABBREVIATION	MEANING	SYMBOL OR ABBREVIATION			
HOT WATER LINE	HW	WALL CLEANOUT	WCO			
COLD WATER LINE	CW	CLEANOUT	СО			
HOT WATER RECIRCULATING LINE	HWREC	CLEANOUT TO GRADE	COTG			
VENT LINE	V	FLOOR CLEANOUT	FCO			
WASTE LINE	<u>SS</u>	BALL VALVE	Φ			
GAS LINE	G	UNION	T			
VENT THRU ROOF	VTR	CONNECTION TO EXISTING PIPING	\oplus			
UNDER FLOOR	UF	REGULATOR	R			
SANITARY SEWER	SS	SOFT WATER	SW			
PRIMARY ROOF DRAIN	PRD	SECONDARY ROOF DRAIN	SRD			

PLUMBING GENERAL NOTES

<u>**G-1</u>** - ALL PLUMBING SHALL BE INSTALLED AND CONFORM TO THE 2018 EDITION OF THE INTERNATIONAL PLUMBING CODE (IPC) WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.</u>

<u>G-2</u> - ALL PIPING MATERIALS SHALL MEET ALL REQUIREMENTS OF IPC AND LOCAL AUTHORITY. PLASTIC PIPING SHALL BE ALLOWED ONLY WHERE ALLOWED BY CODE. PLASTIC PIPING SHALL NOT BE ROUTED THROUGH RETURN AIR PLENUMS OR OTHER AREAS PROHIBITED BY THE IMC, IPC, OR NFPA CODES OR BY LOCAL AUTHORITY.

<u>**G-3</u></u> - GAS PIPING INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH GAS COMPANY REGULATIONS, NFPA CODE REQUIREMENTS, AND LOCAL AUTHORITY.</u>**

<u>**G-4</u>** - ALL MATERIALS SHALL BE NEW AND SHALL BE DOMESTIC MADE UNLESS SPECIFICALLY APPROVED OTHERWISE IN WRITING BY ARCHITECT OR OWNER.</u>

<u>G-5</u> - PROVIDE VACUUM BREAKERS AND BACK FLOW PREVENTERS WHERE REQUIRED BY CODE OR WHERE THERE MAY BE ANY POSSIBLE CHANCE FOR CROSS CONTAMINATION. PREVENTERS SHALL BE INSTALLED IN ACCORDANCE WITH UTAH CODE.

<u>G-6</u> - ALL PLUMBING INFORMATION IS NOT LIMITED TO THE PLUMBING DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING SPECIFICATIONS, ARCHITECTURAL DRAWING, STRUCTURAL DRAWINGS, MECHANICAL DRAWINGS, AND ELECTRICAL DRAWINGS.

<u>G-7</u> - THE WORKING DRAWINGS ARE DIAGRAMMATIC. BECAUSE OF THE SMALL SCALE OF THE DRAWING, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL PIPING SHALL BE CHECKED AND COORDINATED WITH THE SPECIFICATIONS, ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.

<u>**G-8</u>** - COORDINATE ALL PIPING AND PLUMBING EQUIPMENT WITH ALL OTHER TRADES AND/OR CONTRACTORS PRIOR TO INSTALLATION.</u>

<u>G-9</u> - ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARCHITECT/ENGINEER SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.

<u>G-10</u> - GAS LINE FITTINGS SHALL BE STANDARD WELD FITTINGS WITH TAPERED REDUCERS. DO NOT USE VALVES, UNIONS, OR AUTO CONTROLS IN GAS LINES ROUTED IN INACCESSIBLE CONCEALED SPACES.

<u>**G-11</u> - ALL WATER SYSTEMS SHALL MEET THE REQUIREMENTS OF ANSI/NSF STANDARD 61 SECTION 9 (1998), CONCERNING METAL CONTAMINANTS IN THE WATER SYSTEM.</u></u>**

<u>G-12</u> - WATER PIPING SHALL NOT BE ROUTED IN OUTSIDE WALLS OR ON EXTERIOR SIDE OF BUILDING INSULATION ENVELOPE.

<u>G-13</u> - WATER HAMMER ARRESTORS SHALL BE INSTALLED IN ALL WATER LINES WITH QUICK OPEN OR QUICK CLOSE VALVES.

WATER HAMMER ARRESTOR SCHEDULE: TYPE A 1-11 FIXTURE UNITS

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TYPE B	12-32 FIXTURE UNITS
TYPE C	33-60 FIXTURE UNITS
TYPE D	61-113 FIXTURE UNITS

<u>**G-14</u>** - ALL PIPING, MATERIALS, ETC. SHALL BE NEW AND <u>DOMESTIC</u> MADE UNLESS SPECIFICALLY AUTHORIZED IN WRITING PRIOR TO BID.</u>

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SHEET NOTES

- CONNECT TO EXISTING SANITARY VENT FROM RESTROOM LAVRATORIES IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION. CONNECT TO EXISTING DOMESTIC
- COLD AND HOT WATER IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION. CONNECT TO EXISTING SANITARY
- WASTE IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION AND INVERT.

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DOMESTIC HOT WATER-DOMESTIC HOT WATER RETURN-

IECC 2015 TABLE C404.5.1 PIPING VOLUME AND MAXIMUM PIPING LENGTHS										
NOMINAL PIPE SIZE (INCHES)	VOLUME (LIQUID OUNCES PER FOOT LENGTH)	MAXIMUM LENTGH FROM PUBLIC LAV FAUCETS (FEET)								
1/4"	0.33	6'								
5/16"	0.5	4'								
3/8"	0.75	3'								
1/2"	1.5	2'								
5/8"	2	1'								
3/4"	3	0.5'								

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TIE DHWR INTO DHW WITHIN THE MAXIMUM ALLOWED DISTANCE FROM THE LAV PER THE

SCHEDULE.

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PLUMBING FIXTURE S											
EQUIPMENT PLUMBING PIPE SIZES											
NUMBER	FIXTURE	TRAP	WASTE	VENT	COLD WATER	HOT WATER	M				
S-1	SINK	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"					

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WALL CLEAN-OUT DETAIL SCALE: NONE

RETURN DETAIL

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	LIGHTING SYMB	OLS		WIRING DEVICE SYMBOLS								
1. LIGHT	FIXTURE SYMBOLS ARE GENERAL IN NATURE AND MAY BE SHOWN ON	THE DRAWINGS IN VAR	IOUS SIZES AND SHAPES.									
REFE	R TO THE LIGHT FIXTURE SCHEDULE FOR SPECIFICATION INFORMATION	l.		SYMBOL	DESCRIPTION	MOUNTING	REMARKS					
2. ARRO	WS INDICATE AIMING DIRECTION.	1	1		DUPLEX RECEPTACLE	+18"						
SYMBOL	DESCRIPTION	MOUNTING	REMARKS			+18"						
•	LIGHT FIXTURES	OR DETAILED			GROUND FAULT CIRCUIT INTERRUPTER FOURPLEX RECEPTACLE	+18"						
•				J	MULTI-OUTLET ASSEMBLY	4" ABOVE BACKSPLASH						
		AS SPECIFIED				+18"	SUBSCRIPT IN PARENTHESIS INDICATES					
		OR DETAILED		- •			NEMA CONFIGURATION IF SHOWN. REFE TO DRAWINGS AND/OR EQUIPMENT					
				(5-20R)			SCHEDULES. CONFIRM EXACT CONFIGURATION WITH OWNER PRIOR TO					
		AS SPECIFIED	THIS IS AN <u>EXAMPLE</u> OF AN EGRESS				INSTALLATION.					
		OR DETAILED	LIGHT FIXTURE. EGRESS LIGHT FIXTURES ARE HALF-SHADED DIAGONALLY		GENERAL WIRING L	EVICES						
\otimes	CEILING MOUNTED EXIT SIGN	CEILING	DARKENED PORTION OF SIGN INDICATES	SYMBOL								
H	WALL-MOUNTED EXIT SIGN	WALL ABOVE DOOR	FACE(S); ARROW(S) INDICATE CHEVRON	■ ^{B#}	FOR MORE INFORMATION							
\mathbb{R}^{\otimes}	WALL-MOUNTED EXIT SIGN W/ EMERGENCY LIGHT FIXTURE	WALL ABOVE DOOR	DIRECTION(S)		PROVIDE 4" SQUARE DEEP OUTLET BOX AND ELECTRICAL CONNECTI	ONS TO SYSTEMS FUR	NITURE. COORDINATE SYSTEM					
	LIGHT FIXTURE CALLOUT (LETTER DENOTES FIXTURE TYPE)			P	ROUGH-IN. WHIP FROM OUTLET BOX TO SYSTEMS FURNITURE TO BE	PROVIDED BY SYSTEM	I FURNITURE INSTALLER.					
	TELEPHONE / DATA S	I SYMBOLS			PROVIDE BOX WITH GROMMETTED COVER PLATE FOR COMMUNICAT	ION CABLING SIZE BOX	PER NEC. COORDINATE					
	<u></u>			С	EXTEND CONDUIT WITH NYLON PULL ROPE TO ACCESSIBLE CEILING	EM FURNITURE SUPPL SPACE. REFER TO TEL NG	ER/INSTALLER PRIOR TO ROUGH-IN. ECOM RISER DIAGRAM FOR CONDUIT					
SYMBOL	DESCRIPTION	MOUNTING	REMARKS	-		NO.						
	TELEPHONE OUTLET	+18"			LIGHTING CONTR	ROLS						
	DATA OUTLET	+18"		SYMBOL	DESCRIPTION	MOUNTING	REMARKS					
	COMBINATION TELEPHONE/DATA OUTLET	+18"		\$	SINGLE-POLE TOGGLE SWITCH	+48"						
	TELEPHONE TERMINAL BOARD	TOP AT 72"		\$a	SINGLE-POLE TOGGLE SWITCH	+48"	SUBSCRIPT KEYS SWITCH TO FIXTURES					
	WIRELESS ACCESS POINT	CEILING			DOUBLE-POLE TOGGLE SWITCH	+48"						
•				\$ <u>3</u>	THREE-WAY TOGGLE SWITCH	+48"						
W	WIRELESS ACCESS POINT	SEE PLANS		\$4	FOUR-WAY TOGGLE SWITCH	+48"						
	FIRE ALARM SYM	BOLS	1	=\$ <u>DIM</u>		+48"	POSSIBLE WATTAGE					
				=\$tim	TIMER SWITCH OCCUPANCY SENSOR	+48" +48"	REFER TO OCCUPANCY SENSOR					
SYMBOL	DESCRIPTION	MOUNTING	REMARKS	\$x os			SCHEDULE FOR MORE INFORMATION "#" SPECIFIES TYPE					
FSD	FIRE/SMOKE DAMPER				LOW VOLTAGE SWITCH	+48"	REFER TO LOW VOLTAGE SWITCH					
×	HEAT DETECTOR	CEILING	SUBSCRIPT INDICATES SPECIFIC REQUIREMENTS/OPTIONS:	- *LV			"#" SPECIFIES TYPE					
<u>(CO</u>) X	CARBON MONOXIDE DETECTOR SMOKE DETECTOR		'SB' DEVICE WITH SOUNDER BASE	● a #	OCCUPANCY SENSOR	CEILING	"a" LOWER CASE SPECIFIES ZONE "#" SPECIFIES TYPE					
↓ X	HEAT DETECTOR	WALL MOUNTED:	'R' DEVICE WITH ADDRESSABLE RELAY				REFER TO OCCUPANCY SCHEDULE					
©_x	CARBON MONOXIDE DETECTOR	BOTTOM OF CEILING	'RES' DEVICE HAS 120V. SMOKE ALARM W/BATTERY BACKUP	<∎ ↓ a #	DIGITAL DATLIGHT SENSOR	CEILING	"#" SPECIFIES THE FOOTCANDLE SETTIN THE SENSOR SHALL BE SET TO					
X	SMOKE DETECTOR			ТР	WALL MOUNT GRAPHIC TOUCH PAD CONTROLLER	+48"						
	DUCT SMOKE DETECTOR	SIDE OF DUCT			ACCESS CONTROL SYMBOLS							
	FIRE ALARM MANUAL STATION	AT DEVICE(S) TO BE		-								
	MONITOR MODULE	CONTROLLED AT DEVICE(S)		SYMBOL	DESCRIPTION	MOUNTING	REMARKS					
R	FAN SHUTDOWN RELAY	TO MONITOR AT CONTROL		REX	REQUEST-TO-EXIT MOTION DETECTOR	CEILING						
	MAGNETIC DOOR HOLDER	COORDINATE	COORDINATE WITH DOOR INSTALLER;		MAGNETIC DOOR CONTACT SWITCH	DOOR						
		INSTALLER	AT FLOOR LEVEL	Ŵ	MAGNETIC LOCK	DOOR						
<u>₩F</u>	WATER FLOOD CONTROL	FLOOR	SUBSCRIPT 'WP' INDICATES THAT A		OVERHEAD SECURITY	DOOR						
	FIRE ALARM VISUAL STROBE	FROM FINISH FLOOR TO TOP	WEATHER PROOF BACK BOX IS REQ.		ELECTRIFIED LEVER	DOOR						
		OF DEVICE. OUTDOOR - 120"	NUMERIC SUBSCRIPT INDICATES CANDELA RATING OF STROBE			DOOR						
7 s (CEILING MOUNTED FIRE ALARM AUDIO/VISUAL HORN/STROBE	FROM FINISH FLOOR TO TOP	(I.E 10, 70, TIU)	G Ø	GLASS BREAK HARDWARE POWER SUPPLY	CEILING/WALL						
	FIRE ALARM AUDIO/VISUAL SPEAKER/STROBE				INTEGRATED LOCK	+46"						
FACP	CEILING MOUNTED FIRE ALARM AUDIO/VISUAL SPEAKER/STROBE			PP	PUSH PLATE FOR AUTOMATIC DOOR OPERATOR	+46"						
			1		CARD READER	+48"						
SVMROU			REMARKS		<u>CLOSED CIRCUIT TELE</u> VIS	ION SYMBOLS						
\$т	MANUAL STARTER WITH THERMAL OVERLOAD(S)	AT EQUIPMENT										
9	ELECTRIC MOTOR			SYMBOL	DESCRIPTION	MOUNTING	REMARKS					
		+60"			CLOSED CIRCUIT TELEVISION CAMERA	SEE PLANS	SUBSCRIPT DENOTES DEGREES OF MONITORED AREA					
	CIRCUIT BREAKER AND ENCLOSURE	+60"			CLOSED CIRCUIT TELEVISION CAMERA	WALL						
	MAGNETIC STARTER	+60"					·					
	COMBINATION MAGNETIC STARTER / FUSED DISCONNECT	+60"		4								
	COMBINATION MAGNETIC STARTER / MOTOR CIRCUIT	+60"		1								
				4								
VFD	COMBINATION VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP)	FLOOR OR WALL AS SPECIFIED	TOP AT +72" IF WALL MOUNTED									
	LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUNTED)	TOP AT +72"	20"W X 6"D	1								
	LIGHTING AND APPLIANCE PANELBOARD (FLUSH-MOUNTED)	TOP AT +72"	20"W X 6"D									
	FOWER DISTRIBUTION PANELBOARD	WALL										
	SWITCHBOARD	FLOOR	THESE SYMBOLS ARE GENERAL IN]								
			SHAPE TO SUIT APPLICATION. CROSS									
T #			PANELBOARD OR SWITCHBOARD" NAME IS INDICATED IN SEMI-QUOTES (I.E. 'I 2A'	1								
		ו אוטטוא עה ז ו	'MDP')	4								
T-#	DRY TYPE TRANSFORMER	PAD MOUNT										
L	I		!	-								

WIRING DEVICE SYMBOLS				ELECTRICAL SYMBOL SCHEDU	JLE GENERAL N	<u>OTES</u>		<u>ABBREVIATIO</u>		
	1		- 1. MOUN	IT ALL OUTLETS, DEVICES, AND EQUIPMENT AT HEIGHTS INDICATED BE	ELOW, UNLESS NOTED	OTHERWISE ON THE DRAWINGS.				
DESCRIPTION	MOUNTING	REMARKS	UNLE	SS NOTED OTHERWISE, HEIGHTS ARE GIVEN FROM FINISHED FLOOR T		BOX.	A A ADJ	AMP OR AMPS	FINC LIQUID-TIGHT METAL CONDUIT FNC LIQUID-TIGHT NONMETAL CONDUIT	
ACLE	+18"		2. WHEF REQU	RE OUTLETS, DEVICES, AND EQUIPMENT ARE NOTED BY SUBSCRIPTS, F IREMENTS.	REFER TO ABBREVIATI	ON SCHEDULE FOR DEFINED	AFF	ABOVE FINISHED FLOOR	SI LONG-TIME, SHORT-TIME INSTANTANEOUS SIG LONG-TIME, SHORT-TIME INSTANTANEOUS	
CIRCUIT INTERRUPTER DUPLEX RECEPTACLE	+18"		3. WHEF	RE OUTLETS, DEVICES AND EQUIPMENT ARE NOTED BY THE SUBSCRIP SPI ASH_MOUNT AT 4" ABOVE BACK SPI ASH_REFER TO ARCHITECTUR	PT 'A', MOUNT AT 4" ABC	IVE COUNTER. IF COUNTER HAS A	AL C	ALUMINUM CONDUIT	GROUND FAULT //CA MINIMUM CIRCUIT AMPS	
CIRCUIT INTERRUPTER FOURPLEX RECEPTACLE	+18"		CASE	WORK SUPPLIER.			CB CKT	CIRCUIT BREAKER N CIRCUIT N	ACB MINIMUM CIRCUIT BREAKER ALO MAIN LUGS ONLY	577 South 200 East
SSEMBLY	4" ABOVE BACKSPLASH		4. NOT 4	LL ELECTRICAL SYMBOLS MAY BE USED.			C.O.'S CU	CONVENIENCE OUTLETS	N.C. NORMALLY CLOSED N.I.C. NOT IN CONTRACT	S L C, Utah 84111
SE OUTLET	+18"	SUBSCRIPT IN PARENTHESIS INDICATES					E, EX	EXISTING	N.C. NIGHT LIGHT N.O. NORMALLY OPEN	ph: (801) 533-2100
		TO DRAWINGS AND/OR EQUIPMENT		GENERAL SYM	<u>IBULS</u>			ELECTRICAL C	DCP OVER CURRENT PROTECTION	jrcadesign.com
		CONFIGURATION WITH OWNER PRIOR TO	SYMBOL	DESCRIPTION		REMARKS	EMT ENT	ELECTRIC METALLIC TUBING F ELECTRIC NONMETALLIC TUBING F	R REMOVE REQ. REQUIREMENTS	
GENERAL WIRING D				KEYED NOTE			EQUIP EWC	EQUIPMENT F ELECTRIC WATER COOLER F	RMC RIGID METAL CONDUIT RNC RIGID NONMETALLIC CONDUIT	
				DETAIL REFERENCE	TOP NUMBER INDI	CATES DETAIL NUMBER; BOTTOM NDICATES DRAWING SHEET WHERE	FA FA	EXPLOSION PROOF FIRE ALARM S	RR REMOVE AND RELOCATE SCP SECURITY CONTROL PANEL	
FER TO SUBSCRIPT AND ELOOR BOX SCHEDULE			E-1		DETAIL IS SHOWN; DETAIL IS GENERA	WHERE NOT SPECIFICALLY REFERENCED, L IN NATURE AND SHALL APPLY WHERE	FACP FLA FMC	FULL LOAD AMPS	SS SURGE SUPPRESSION	
RMATION					APPLICABLE.		FOB	FREIGHT ON BOARD T FEED-THROUGH LUGS T	VSS TRANSIENT VOLTAGE SURGE SUPPRESSOR YP TYPICAL	
ARE DEEP OUTLET BOX AND ELECTRICAL CONNECTI	IONS TO SYSTEMS FUR	RNITURE. COORDINATE SYSTEM	2		LETTER-NUMBER INDIG	DATES ELEVATION NOMBER; BOTTOM NDICATES WHERE ELEVATION IS SHOWN.	GND HOA	GROUND CONDUCTOR L HAND-OFF-AUTO	J, USB DUPLEX OUTLET W/(2) 3.1A, 12VDC USB PORTS	
FROM OUTLET BOX TO SYSTEMS FURNITURE TO BE	E PROVIDED BY SYSTEM	M FURNITURE INSTALLER.	E-2				HP IG	HORSE POWER ISOLATED GROUND	J.N.O. UNLESS NOTED OTHERWISE JF UNDER FLOOR	
TH GROMMETTED COVER PLATE FOR COMMUNICAT	TION CABLING SIZE BO	PER NEC. COORDINATE		SECTION REFERENCE	TOP NUMBER INDI	CATES ELEVATION NUMBER; BOTTOM		INTERMEDIATE METAL CONDUIT	JG UNDERGROUND JSB UNIVERSAL SERIAL BUS	
DUTLET BOXES IN WALLS AND COLUMNS WITH SYST T WITH NYLON PULL ROPE TO ACCESSIBLE CEILING	IEM FURNITURE SUPPL SPACE. REFER TO TEI	.IER/INSTALLER PRIOR TO ROUGH-IN. LECOM RISER DIAGRAM FOR CONDUIT	3 F-2		LETTER-NUMBER	NDICATES WHERE ELEVATION IS SHOWN.	KVA KW	KILO VOLT AMPERES	VP WEATHER PROOF (FMR TRANSFORMER	
TE CONDUIT IN CEILING SPACE WITH A NYLON BUSHI	IING.							CUEET		
			100	ARCHITECTURAL ROOM NUMBER			EG001			
	MOUNTING +48"	REMARKS		EQUIPMENT NAME / NUMBER	BOTTOM NUMBER ABBI	NDICATES EQUIPMENT NAME OR TYPE; INDICATES EQUIPMENT NUMBER. REFER	ED101 ED102	LOWER LEVEL - DEMOLITION RE	WER PLAN	
GGLE SWITCH	+48"					TEDOLE.	EL101	LOWER LEVEL - LIGHTING PLAN		
	140	CONTROLLED.		REVISION NUMBER	USED TO DENOTE OR DURING CONS	CHANGES EITHER ISSUED BY ADDENDUM IRUCTION AND TO DENOTE RECORD	EL501 EL701	LIGHTING DETAILS & SCHEDULE LIGHTING CONTROLS WIRING DI	S AGRAMS	
DGGLE SWITCH	+48"				DRAWING CHANGE	ES.	EP101			
GLE SWITCH	+48" +48"		- L	BREAKLINE	USED TO BREAK D	RAWINGS.	EP501	POWER DETAILS AND SCHEDUL	ES	
	+48"	RATE DIMMER SWITCH FOR MAXIMUM					EP701 EP702	TELECOM RISER DIAGRAM		
	+48"		I	BRANCH CIRCUITING	SYMBOLS		EP801 EP802	PANEL SCHEDULES PANEL SCHEDULES		
NSOR	+48"	REFER TO OCCUPANCY SENSOR					EP803	PANEL SCHEDULES		
		"#" SPECIFIES TYPE	SYMBOL	DESCRIPTION BRANCH CIRCLUIT HOME RUN TO PANEL		REMARKS	EY101	LOWER LEVEL - SYSTEMS PLAN		
WITCH	+48"	REFER TO LOW VOLTAGE SWITCH SCHEDULE FOR MORE INFORMATION			NUMBER OF ARRC	WS INDICATES NUMBER OF CIRCUITS	EY501 EY502	ACCESS CONTROL DOOR ROUG		
		"#" SPECIFIES TYPE		BRANCH CIRCUITING (U.N.O.) CONTINUATION			EY503 EY701	FIRE ALARM RISER DIAGRAM	H-IN DETAILS	
NSOR	CEILING	"a" LOWER CASE SPECIFIES ZONE "#" SPECIFIES TYPE]	CONDUIT STUB-IN	CAP AND MARK					
IT SENSOR	CEILING	"a" LOWER CASE LETTER SPECIFIES ZONE						1. DIVISION 26000 CONTRACTOR IS	S RESPONSIBLE FOR READING AND	
	OLILING	"#" SPECIFIES THE FOOTCANDLE SETTING THE SENSOR SHALL BE SET TO		JUNCTION BOX	MOUNT AS NOTED	. SUBSCRIPT 'F' INDICATES TO PROVIDE A	-	APPLYING WHAT IS IN THE SPEC ANYTHING THAT IS NOT INCLUE	CIFICATIONS TO THIS PROJECT. DED ON THE PROJECT THAT IS	巴
APHIC TOUCH PAD CONTROLLER	+48"				FLOOR BOX WITH	BLANK COVERPLATE.		CALLED OUT IN THE SPECIFICA SUBSTANTIAL COMPLETION PU	TION SHALL BE LISTED ON THE NCHLIST. THE CONTRACTOR WILL	
ACCESS CONTROL S	SYMBOLS	•		BRANCH CIRCUITING (U.N.O.) TURNED UP OR TOWARDS OBSERVER.				BE REQUIRED TO REMEDY THE ADDITIONAL COSTS TO OWNER	SE DEFICIENCIES WITHOUT R. THERE WILL BE NO EXCEPTIONS.	
								2. THE CONTRACTOR MAY SCHED		
DESCRIPTION	MOUNTING	REMARKS		OBSERVER.				TO REVIEW THE DRAWINGS AN	D SPECIFICATIONS. THE MEETING	ad F
T MOTION DETECTOR	CEILING			2 CIRCUIT, BRANCH CIRCUIT HOME RUN TO PANEL	ARROWS:			THE ENGINEER'S OFFICE.		
TIC DOOR STRIKE	DOOR				NUMBER OF ARRO REQUIRED.	WS INDICATES NUMBER OF CIRCUITS		3. THE FOLLOWING ITEMS ARE SO ARE LISTED IN THE SPECIFICAT	DME OF THE REQUIREMENTS THAT TONS. THESE ITEMS ARE NOT ALL	edv T 8
CONTACT SWITCH	DOOR			3 CIRCUIT, 4 WIRE BRANCH CIRCUIT HOME RUN TO PANEL	ARROWS: NUMBER OF ARRO	WS INDICATES NUMBER OF CIRCUITS		INCLUSIVE AND THE CONTRAC [®] COMPLIANCE TO ALL REQUIREI	TOR IS RESPONSIBLE FOR MENTS OF THE SPECIFICATIONS:	П КО
JRITY	DOOR				REQUIRED.			A. INSULATED THROAT CC	NNECTORS OR PLASTIC BUSHINGS	
R CONTACT	DOOR]			0		SHALL BE UTILIZED FOR PROJECT.	R ALL CONDUIT SIZED USED ON THIS	
	DOOR					<u>s</u>	_	B. THE CONTRACTOR IS R	ESPONSIBLE FOR UPSIZING	50 300 aylo
	CEILING/WALL		SYMBOL	DESCRIPTION	MOUNTING	REMARKS		REGARDLESS OF WHET	HER IT IS SHOWN ON THE PLANS OR	0 4 -
	CEILING/WALL				TOP AT 72"	BUT ARE NOT SPECIFICALLY LIMITED		C. THE CONTRACTOR SHA	LL LABEL ALL ELECTRICAL	PROJECT #: 20029
	+46"					LIGHTING CONTROL, CLOCKS, FIRE		EQUIPMENT AS IT IS CA	LLED OUT IN THE SPECIFICATIONS.	
R OPERATOR	+46" DOOR		- NAME	- ELECTRUNIC STOLEM PANELBUARD (FLUSH MUUNT)	TOP AT /2"	CCTV, SOUND SYSTEM, NURSE CALL, OR INTERCOM		D. THE CONTRACTOR SHA BRACING FOR ALL LIGH	LL PROVIDE SEISMIC SUPPORT AND T FIXTURES AND ELECTRICAL	BID SET 2/17/2021
	+48"			ELECTRONIC SYSTEM TERMINAL BOARD	TOP AT 72"			EQUIPMENT AS REQUIR NATIONAL CODES.	RED BY APPLICABLE LOCAL AND	DATE REVISION
CLOSED CIRCUIT TELEVIS	SION SYMBOLS					1		4. THE CONTRACTOR SHALL FOLL		
			1					BEEN ASSIGNED TO SPECIFIC A DEVIATION WILL BE ALLOWED	AREA OF THE BUILDING. NO WITHOUT WRITTEN APPROVAL FROM	
DESCRIPTION	MOUNTING	REMARKS	1					THE ELECTRICAL ENGINEER.		
TELEVISION CAMERA	SEE PLANS	SUBSCRIPT DENOTES DEGREES OF MONITORED AREA	1					5. AT A MINIMUM THE CONTRACTO CALLED OUT ON THE ONE-LINE	OR SHALL INSTALL THE WIRE SIZE AS DIAGRAM. HOWEVER, THE	
TELEVISION CAMERA	WALL							CONTRACTOR IS RESPONSIBLE LARGE ENOUGH TO ALLOW FO	TO ENSURE THE WIRE IS SIZED R VOLTAGE DROP.	SSIONAL ENCE
	1		_					6. THE CONTRACTOR SHALL VERI	FY ALL MECHANICAL OVERCURRENT	10000000000000000000000000000000000000
								THE JOB, PRIOR TO RELEASE C	DF ANY ELECTRICAL DISTRIBUTION	ALEKSANDAR
								DISCREPANCIES.		Hankouse 6
								7. THE CONTRACTOR SHALL VISIT BID, AND SHALL EXAMINE ALL P	THE SITE BEFORE SUBMITTING THE PHYSICAL CONDITIONS WHICH MAY	E OF ULP
								BE MATERIAL TO THE PERFORM ADDITIONAL PAYMENTS WILL B	MANCE OF HIS WORK. NO E ALLOWED TO THE CONTRACTOR	12/11/2020
								AS A RESULT OF EXTRA WORK TO DO SO. ANY CASE OF DISCF	MADE NECESSARY BY HIS FAILURE REPANCY OR LACK OF CLARITY	VIEW AND PRINT THIS SHEET IN COLOR
								SHALL BE PROMPTLY IDENTIFIE REPRESENTATIVE AND THE EN	D TO THE OWNER'S GINEER FOR CLARIFICATION.	
										SYMBOLS LISTS
									ENGINEERING	
									240 E. MORRIS AVE. SUITE 200 SALT LAKE CITY, UT 84115	
									P (801) 534-1130 F (801) 534-1080	

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KEYED NOTES (#)

- EXISTING LIGHT FIXTURES IN THIS ROOM SHALL BE STORED, CLEANED, REPAIRED AS NECESSARY, PROTECTED, AND REUSED. ANY BROKEN LENSES SHALL BE REPLACED WITH NEW FROM THE EXISTING MANUFACTURER. REFER TO EL101 FOR ADDITIONAL INFORMATION.
- EXISTING LIGHTING, WIRING DEVICES, EQUIPMENT, ETC. IN THIS SPACE SHALL D2 REMAIN. PROTECT AND MAINTAIN CONNECTIVITY THROUGHOUT CONSTRUCTION.
- D10 THE EXISTING FLUORESCENT COVE LIGHTING SHALL BE RETROFITED WITH NEW LED LAMPING. DEMOLISH ALL FLUORESCENT LAMPS. THE LUMINAIRE HOUSING, CONDUIT, CONDUCTORS, ETC. SHALL REMAIN TO BE UTILIZED IN RETROFIT. CONTROLLED LIGHTING CIRCUITS SHALL BE UTILIZED FOR NEW RETROFIT LIGHT FIXTURES. CONFIRM NUMBER OF EXISTING 4', 3', 3 LAMP, AND 2 LAMP FIXTURES PRIOR TO DEMOLITION AND ORDERING OF NEW RETROFIT FIXTURES.
- EXISTING LIGHTING, WIRING DEVICES, EQUIPMENT, ETC. IN THIS SPACE SHALL REMAIN. PROTECT AND MAINTAIN OUTLET CONNECTIVITY THROUGHOUT CONSTRUCTION. THE EXISTING LIGHTING SHALL BE TEMPORARILY DISCONNECTED AND THEN TIED TO NEW LIGHTING CIRCUIT. REFER TO EL DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL DEMOLITION NOTES:

- **REQUIREMENTS:**
- Α.
- В.
- C. CIRCUITS, FEEDERS, ETC.
- D.
- E.
- G. DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
- COORDINATE WITH OWNER WHAT EQUIPMENT SHOULD BE DISPOSED OF AND WHAT EQUIPMENT IS TO BE RETURNED TO OWNER. Η.
- FIRE ALARM SYSTEM MUST REMAIN OPERATIONAL DURING ALL PHASES OF CONSTRUCTION.
- ALL DEMOLISHED SECURITY DEVICES SHALL BE RETURNED TO SLCC.

UNLESS SPECIFICALLY NOTED OTHERWISE, REMOVE ALL ELECTRICAL ITEMS SHOWN IN DARK AND DASHED LINES. LIGHT AND SOLID ITEMS ARE TO REMAIN. DEMOLITION ITEMS ARE SHOWN TO GIVE A BASIC DESCRIPTION OF THE EXTENT OF DEMOLITION WORK, BUT MAY NOT BE INCLUSIVE. PROVIDE DEMOLITION WORK IN ACCORDANCE WITH THE FOLLOWING

DISCONNECT AND REMOVE ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK WHETHER SHOWN OR NOT.

RELOCATE, REWIRE, AND/OR RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.

LEAVE ALL EXISTING FIXTURES, DEVICES, EQUIPMENT, ETC. IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH

REMOVE AND DISPOSE OF ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED. TERMINATE AT ACCESSIBLE JUNCTION BOX BY PROVIDING PROPER KNOCK-OUT CLOSURE, TAPE CONDUCTORS, LABEL AS "SPARE" WITH CIRCUIT NO., ZONE NO, OR OTHER CHARACTERISTIC IDENTIFYING SOURCE.

EXISTING RACEWAYS MAY BE REUSED, IF IN PLACE, WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. UPGRADE AND OR PROVIDE NEW CONDUIT SUPPORTS WHERE NECESSARY FOR ALL RACEWAYS BEING REUSED. ENSURE INTEGRITY OF EXISTING RACEWAYS BEFORE REUSE. CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. THE USE OF WIREMOLD IS PERMITTED ONLY WHERE SPECIFICALLY NOTED ON DRAWING.

577 South 200 East S L C, Utah 84111 ph: (801) 533-2100 jrcadesign.com

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TESTING

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4600 South Redwood | Taylorsville, UT 84123

PROJECT #: 20029

BID SET

2/17/2021

ALEKSANDAF RANKOVI

12/11/2020

VIEW AND PRINT THIS SHEET IN COLOR

DEMOLITION

REFLECTED

CEILING PLAN

ED101

LOWER LEVEL

REVISION

DATE

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COORDINATE WITH OWNER WHAT EQUIPMENT SHOULD BE DISPOSED OF AND WHAT EQUIPMENT IS TO BE RETURNED TO OWNER.

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			LIG	HT FIX	TURE SCH	EDULE	
CV1	DESCRIPTION LED TAPE LIGHT IN ROUND EXTRUDED ALUMINUM CHANNEL WITH FROSTED LENS. SURFACE MOUNTED WITH PIVOT MOUNTING CLIP.	SOURCE LED 350 LUMENS/FT REMOTE DRIVER 0-10V DIM TO 10% 3500K	ELEC VOLTAGE 277 V	TRICAL LOAD 4	Q-TRAN (OR APPROVED EQUIVALENT)	CATALOG INFORMATION CATALOG NUMBER / SERIES SW24/4.0 ROND-ST-SST-FR	COMMENTS / NOTES LOCATE REMOTE DRIVER IN NEARES ACCESSIBLE CEILING AND RUN LOW-VOLTAGE CABLES TO FIXTURE PROVIDE NUMBER OF DRIVERS AS REQUIRED FOR LENTHS SHOWN. PROVIDE WITH CORDS AND ALL HARDWARE REQUIRED FOR A COMPLETE SYSTEM.
CV2	4' LED RETROFIT FOR 2 LAMP FLUORESCENT STRIP LIGHTS. BYPASS BALLAST FOR DIRECT LINE WIRING.	(2) LED 3500K 1,950 LUMENS	277 V	30	TRULY GREEN SOLUTIONS (OR APPROVED EQUIVALENT)	83	PROVIDE SAMPLE TO TEST COMPATIBILITY WITH EXISTING LUMINAIRES PRIOR TO RELEASE.
CV3A	4' LED RETROFIT FOR 3 LAMP FLUORESCENT STRIP LIGHTS. BYPASS BALLAST FOR DIRECT LINE WIRING.	(3) LED 3500K 1,950 LUMENS	277 V	45	TRULY GREEN SOLUTIONS (OR APPROVED EQUIVALENT)	83	PROVIDE SAMPLE TO TEST COMPATIBILITY WITH EXISTING LUMINAIRES PRIOR TO RELEASE.
CV3B	3' LED RETROFIT FOR 3 LAMP FLUORESCENT STRIP LIGHT. BYPASS BALLAST FOR DIRECT LINE WIRING.	(3) LED 3500K 1,300 LUMENS	277 V	30	TRULY GREEN SOLUTIONS (OR APPROVED EQUIVALENT)	83	PROVIDE SAMPLE TO TEST COMPATIBILITY WITH EXISTING LUMINAIRES PRIOR TO RELEASE.
GB33	2'X2' LED LAY-IN GRID MOUNTED VOLUMETRIC TROFFER WITH CENTER ROUND OPAL DIFFUSER. HINGED DOOR FOR FIXTURE ACCESS. PROVIDE INTEGRAL UL924, 90 MINUTE, EM BATTERY BACK FOR EM FIXTURES SHOWN ON THE FLOOR	LED 3300 LUMENS INTEGRAL DRIVER 0-10V DIM TO 10% 3500K	277 V	27	LITHONIA (OR APPROVED EQUIVALENT)	2BLT	
GB48	2'X4' LED LAY-IN GRID MOUNTED VOLUMETRIC TROFFER WITH CENTER ROUND OPAL DIFFUSER. HINGED DOOR FOR FIXTURE ACCESS.	LED 5000 LUMENS INTEGRAL DRIVER 0-10V DIM TO 10% 3500K	277 V	38	LITHONIA (OR APPROVED EQUIVALENT)	2BLT4	
GB50	2'X2' LED LAY-IN GRID MOUNTED VOLUMETRIC TROFFER WITH CENTER ROUND OPAL DIFFUSER. HINGED DOOR FOR FIXTURE ACCESS. PROVIDE INTEGRAL UL924, 90 MINUTE, EM BATTERY BACK FOR EM FIXTURES SHOWN ON THE FLOOR PLANS	LED 4800 LUMENS INTEGRAL DRIVER 0-10V DIM TO 10% 3500K	277 V	44	LITHONIA (OR APPROVED EQUIVALENT)	2BLT	
RL2	2" WIDE SPACKLE FLANGE RECESSED LINEAR FIXTURE WITH 3/8" DROP OPAL LENS. PROVIDE WITH LIT CORNERS WHERE SHOWN ON THE FLOOR PLANS. EXTRUDED ALUMINUM HOUSING.	LED 420 LM/FT INTEGRAL DRIVER 0-10V DIM TO 10% 3500K	277 V	5	PAL (OR APPROVED EQUIVALENT)	MLR2	WATTAGE SHOWN IS PER FOOT. REFER TO DRAWINGS FOR LENGTH REQUIRED.
UC3	SMALL.7" THICK AND 2.8" WIDE UNDER CABINET LIGHT FIXTURE WITH INTEGRAL DRIVER AND SWITCH. HARDWARE APPLICATION.	LED 300 LM/FT INTEGRAL DRIVER 3500K	277 V	6	HALO (OR APPROVED EQUIVALENT)	HU30	REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATIC PROVIDE NUMBER OF DRIVERS AS REQUIRED FOR LENTHS SHOWN. PROVIDE WITH CORDS AND ALL HARDWARE REQUIRED FOR A COMPLETE SYSTEM.
X1	DIE-CAST ALUMINUM EDGE-LIT, LED EXIT SIGN. SINGLE FACE, CLEAR BACKGROUND. BRUSHED ALUMINUM FINISH. UNIVERSAL CEILING/BACK MOUNTING. NICKLE CADMIUM BATTERY.	LED	277 V	2	LITHONIA (OR APPROVED EQUIVALENT)	LRP-1	REFER TO DRAWINGS FOR MOUNTI AND ARROWS.
X2	DIE-CAST ALUMINUM EDGE-LIT, LED EXIT SIGN. DOUBLE FACE. MIRROR BACKGROUND. BRUSHED ALUMINUM FINISH. UNIVERSAL CEILING/BACK MOUNTING. NICKLE CADMIUM BATTERY.	LED	277 V	2	LITHONIA (OR APPROVED EQUIVALENT)	LRP-2	
LIGHT F . REFER T . CONFIRI . CONFIRI ELECTRI . ALL LIGH . ALL LED . ALL LIGH . ALL LIGH . ALL LIGH . ALL LIGH	FIXTURE GENERAL NOTES TO THE ARCHITECTURAL REFLECTED CEILING P M MOUNTING HEIGHTS AND LOCATIONS OF ALL TO THE SPECIFICATIONS FOR OTHER LIGHT FIXT M AVAILABLE MOUNTING DEPTHS OF ALL LIGHT CAL ENGINEER PRIOR TO RELEASE. IT FIXTURES ARE TO BE 3500K FOR INTERIOR A IT FIXTURES ARE TO BE A MINIMUM OF 80 CRI L SOURCES MUST MEET L80 AT 50,000 HRS MINIM M ALL MOUNTING REQUIREMENTS WITH ARCHIT IT FIXTURES ARE TO HAVE AN EFFICACY OF 80	PLANS FOR LOCA LIGHT FIXTURE TURE REQUIRE FIXTURES AND PPLICATIONS AI INLESS OTHERV MUM UNLESS OT IECT PRIOR TO LUMENS PER W	ATIONS OF LIGI S WITH ARCHIT MENTS. COMPARE WIT ND 4000K FOR VISE NOTED IN FHERWISE NOT RELEASE. ATT MINIMUM.	HT FIXTURES. E FECTURAL ELE TH DEPTHS SHO EXTERIOR APP THE FIXTURE I TED.	BRING ALL DISCREPANCIES VATIONS AND / OR ARCHITE OWN ON SHOP DRAWINGS. PLICATIONS, UNLESS OTHER DESCRIPTION.	OF LOCATIONS AND QUANTITIES TO THE ATTENTIC CT. BRING ALL POTENTIAL CONFLICT AREAS TO THE A WISE NOTED IN THE FIXTURE DESCRIPTION.	ON OF THE ARCHITECT PRIOR TO BIDDING.
BIDDIN	<u>G REQUIREMENTS</u>						
1. BID ONL 2. PACKAG 3. WHEN O 4. WHEN A	Y PRODUCTS THAT ARE SPECIFIED OR APPROV GING OF LIGHT FIXTURES WITH OTHER SYSTEMS ONLY ONE PRODUCT IS APPROVED FOR BIDDING CONTRADICTION EXISTS BETWEEN A SPECIFIC	VED BY ADDEND S IS NOT ALLOW G, THE PRICE FC MODEL NUMBE	UM. ED AND MUST R THAT ITEM S R AND THE DE	BE BID SEPARA HALL BE BROK SCRIPTION, TH	ATELY. I.E. LIGHT FIXTURES KEN OUT SEPARATELY WHE HE DESCRIPTION SHALL GO	, THEATRICAL LIGHTING, SPORTS LIGHTING AND A N SUBMITTING PRICING TO VARIOUS DISTRIBUTOR /ERN.	LL LIGHTING CONTROLS. S AND / OR CONTRACTOR.
LIGHT	FIXTURE PRIOR APPROVAL REQU	JIREMENTS	<u> </u>				
1. PRIOR A 2. PRIOR A 3. ITEMS T 4. IT IS <u>NO</u> ADDEND 5. PRIOR A DATA WI 6. LIGHTIN	PPROVAL IS REQUIRED BEFORE BIDDING THIS PPROVALS SHALL BE SUBMITTED TO THE ELEC HAT ARE SUBMITTED AND HAVE BEEN APPROV T THE RESPONSIBILITY OF THE ELECTRICAL EN UM(S) MAY NOT BE GIVEN. PPROVALS SHALL CONSIST OF CUT SHEETS DE LL NOT BE APPROVED. G PACKAGES WILL BE REVIEWED FOR GENERA	PROJECT. TRICAL ENGINE ED WILL BE LIST GINEER TO NOT ESCRIBING THE	ER'S OFFICE <u>A</u> ED IN THE ADE IFY THE SUBM PRODUCTS BE	T LEAST (8) WC DENDUM(S). VE ITTING PARTY (ING SUBMITTEI Y. AN IN-DEPTH	DRKING DAYS BEFORE BID T ERBAL APPROVALS WILL <u>NO</u> OF ERRORS IN THE SUBMIT D AS EQUIVALENTS. ALL SF H REVIEW OF ANY ALTERNA	IME. PRIOR APPROVALS RECEIVED AFTER THIS TIME THE GIVEN ON ANY ITEM. TAL. NOTIFICATION OF ERRORS BY THE ELECTRICA ECIFICATION INFORMATION SHALL BE CLEARLY MA TE FIXTURES WILL BE DONE DURING THE SUBMITT	ME PERIOD SHALL BE REJECTED. AL ENGINEER PRIOR TO ISSUANCE OF THE ARKED. PRODUCTS WITHOUT PHOTOMETRI AL REVIEW PROCESS. ANY FIXTURES THAT

SUPPLY SPECIFIED EQUIPMENT AT NO EXTRA COST TO THE OWNER.

LIGHTING CONTROL SYSTEM REQUIREMENTS:

STANDALONE LOW VOLTAGE LIGHTING CONTROL SYSTEMS: PROVIDE DIGITAL STANDALONE LOW VOLTAGE LIGHTING CONTROL SYSTEMS IN ALL ROOMS/AREAS UNLESS OTHERWISE MENTIONED IN LINE-VOLTAGE LIGHTING CONTROL SYSTEM.

THE SYSTEMS SHALL INCLUDE, BUT IS NOT LIMITED TO CEILING-MOUNTED OCCUPANCY SENSORS, LIGHT LEVELS SENSORS, LOW VOLTAGE CONTROL WALL SWITCHES, RELAY PACKS/ROOM CONTROLLERS, LOW VOLTAGE CABLES, PROGRAMMING, ETC.

PROVIDE RELAY PACKS/ROOM CONTROLLERS IN TYPES AND RATINGS AS MAY BE REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM WHETHER SHOWN ON THE DRAWINGS OR NOT. WHERE RELAY PACKS ARE SERVING LOADS IN HIGH CEILING AREAS, LOCATE POWER PACKS IN THE ELECTRICAL ROOM WHERE LINE VOLTAGE WIRING IS ORIGINATING FROM.

OCCUPANCY SENSORS SHALL BE SET FOR "MANUAL ON - AUTO OFF" WITH A 10 MINUTE DELAY EXCEPT IN THE FOLLOWING SPACES: SMALL VESTIBULES AND PASSAGE WAYS (100% AUTO ON)

ALL CEILING-MOUNTED OCCUPANCY SENSORS SHALL BE PROVIDED WITH AN AUXILIARY CONTACT FOR HVAC CONTROL.

ALL LOW VOLTAGE LIGHTING CONTROL SWITCHES SHALL HAVE EACH SCENE NAME SILKSCREENED ONTO THE FRONT OF THE SWITCH IN BLACK LETTERS. COORDINATE SCENE NAME WITH ARCHITECT/OWNER.

COORDINATE WITH OWNER/ARCHITECT ON PROGRAMMING SCENES (PER ZONING SHOWN ON DRAWINGS), TASK TUNING, ETC. EACH STANDALONE SYSTEM SHALL BE PROGRAMMED TO REVERT BACK TO ITS NORMAL "ON" POSITION ONE HOUR AFTER SELECTING A SCENE OR RAISING OR LOWERING A LIGHTING ZONE.

LINE-VOLTAGE LIGHTING CONTROL SYSTEM: PROVIDE LINE-VOLTAGE LIGHTING CONTROL SYSTEMS IN THE FOLLOWING ROOMS/AREAS:

WALL BOX OCCUPANCY SENSORS CUSTODIANS OFFICES

SMALL STORAGE ROOMS

SET OCCUPANCY SENSOR TO HAVE A 10 MINUTE DELAY

TIMER SWITCHES: COMMUNICATIONS ROOMS

TIMER SWITCHES SHALL GIVE OCCUPANTS THE ABILITY TO SELECT FROM 2, 5, 10, 15, 30, OR 60 MINUTES.

TOGGLE SWITCHES: ELECTRICAL ROOMS MECHANICAL ROOMS

OCCUPANCY SENSORS: PLEASE NOTE THAT ELECTRICAL DRAWINGS INDICATE LOCATIONS OF OCCUPANCY SENSORS IN APPROXIMATE LOCATIONS AND QUANTITIES, PROVIDE OCCUPANCY SENSORS IN LOCATIONS, QUANTITIES, AND TYPES AS RECOMMENDED BY THE MANUFACTURE. PROVIDE COMPLETE PRODUCT DATA AND SHOP DRAWINGS INDICATING THE PROPOSED TYPES, COVERAGE PATTERNS, LOCATIONS, AND QUANTITIES. COORDINATE THE LOCATION OF ALL DEVICES WITH CEILING GRIDS, LIGHT FIXTURES, CEILING DIFFUSERS, SPRINKLER HEADS, ETC

LIGHT LEVEL SENSORS: PLEASE NOTE THAT THE ELECTRICAL DRAWINGS INDICATED LOCATIONS OF LIGHT LEVEL SENSOR IN APPROXIMATE LOCATIONS ONLY. PROVIDE LIGHT LEVEL SENSORS IN LOCATIONS AND TYPES AND RECOMMENDED BY THE MANUFACTURER. PROVIDE COMPLETE PRODUCT DATA AND SHOP DRAWINGS INDICATING THE PROPOSED TYPES AND LOCATIONS. COORDINATE THE LOCATION OF ALL DEVICES WITH CEILING GRIDS, LIGHT FIXTURES, CEILING DIFFUSERS, SPRINKLER HEADS, ETC.

ZONING REQUIREMENTS: IT IS PERMISSIBLE FOR ZONES OF LIGHT FIXTURES TO BE CONTROLLED BY COMMON POWER PACKS IN LIEU OF INDIVIDUAL POWER PACKS FOR EACH LIGHT FIXTURE EXCEPT AS FOLLOWS:

- EGRESS LIGHT FIXTURES IN EACH ZONE SHALL BE PROVIDED WITH A RELAY PACK/ROOM CONTROLLER UL 924 LISTED FOR EMERGENCY OPERATIONS. SEE EMERGENCY OPERATIONS BELOW.
- EACH ROOM OR AREA SHALL BE CONSIDERED A SEPARATE ZONE, UNLESS NOTED OTHERWISE. PLEASE NOTE THAT SOME ROOMS HAVE 2. MULTIPLE ZONES. REFER TO THE LIGHTING PLANS FOR DELINEATED LIGHTING ZONES.
- DIFFERENT LIGHT FIXTURE TYPES IN EACH ZONE SHALL HAVE SEPARATE POWER PACKS.
- POWER PACKS SHALL BE RATED IN AMPERAGES AND VOLTAGES AS MAY BE REQUIRED TO SUIT APPLICATION. 4
- PROVIDE A MINIMUM OF AT LEAST 10% EXTRA POWER PACKS OF EACH SIZE AND TYPE UTILIZED AND ZONE AS MAY BE DIRECTED BY THE ELECTRICAL ENGINEER.

P1	NEW LOCATION OF EXISTING PANELS SHEET EP701 FOR ADDITIONAL INFOR
P4	RUN NEW POWER AND DATA CONDUI RECEPTION DESK WALL. SAW CUT EX AND REPAIR SLAB. PULL 1" CONDUIT I
P6	PROVIDE HARDWIRE POWER FOR LOO CONNECTION REQUIREMENTS WITH L
P7	TIE EXISTING OUTLET TO NEW CIRCU
P10	TV MONITOR. COORDINATE EXACT LC
P11	PROVIDE 4-PLEX OUTLET ABOVE ACC

	CONNEC	CTION A	T UNIT		
)	CP	DISCO	NNECT		
	POLES	SIZE	POLES	ENCLOSURE	REMARKS
	-	1 HP	1	NEMA 1	COORDINATE EXACT MOTOR SIZE SUPPLIED PRIOR TO ANY WORK.
	SHED, IN SHED & I R DIVISIC SHED UN ON 26 SHED, IN SHED BY	STALLE NSTALL N 26 IDER AN STALLE OWNE	ED & CON ED UND NOTHER ED & CON R, INSTA	INECTED UNDER D ER ANOTHER DIVIS DIVISION BUT INST INECTED UNDER A LLED & CONNECTE	NVISION 26. SION REQUIRING CONNECTIONS ALLED AND CONNECTED UNDER NOTHER DIVISION ED BY DIVISION 26
Η	THE MAI	NUFACT	TURER'S	RECOMMENDATIO	INS OF ACTUAL EQUIPMENT

GE	ENERAL ONE-LINE NOTES:
1.	THE ELECTRICAL CONTRACTOR SHALL VERIFY THE AVAILABLE FAULT CURRENT WITH THE OWNER PRIOR TO BIDDING AND PROVIDE EQUIPMENT RATED ACCORDINGLY. SUBMIT FAULT CURRENT CALCULATIONS WITH SHOP DRAWINGS SUBMITTAL.
2.	PROVIDE FULL LENGTH VERTICAL BUSSING ALL IN ALL SWITCHBOARDS, DISTRIBUTION PANELBOARDS, AND PANELBOARDS.
3.	COORDINATE SPACE WITH ALL OTHER TRADES TO MAINTAIN ALL CODE-REQUITED CLEARANCES.
KE	EYED NOTES (#)
D6	EXISTING FEEDER SHALL BE INTERCEPTED AND EXTENDED TO NEW LOCATIONS. DEMOLISH UNUSED CONDUIT AND CONDUCTORS.
P2	EXTEND FEEDER TO NEW LOCATION SHOWN ON EP101. ASSUME " CONDUIT, $(4) # 1/0$ AWG, $(1) #6$ AWG GND FOR BIDDING PURPOSES. FIELD VERIFY EXACT FEEDER.
P3	PROVIDE NEW FEEDER, SAME SIZE AS EXISTING. ASSUME " CONDUIT, (4) # 1/0 AWG, (1) #6 AWG GND FOR BIDDING PURPOSES. FIELD VERIFY EXACT FEEDER.
P8	PROVIDE PULL BOX TO INTERCEPT EXISTING OVERHEAD FEED TO PANELS L1MC1 AND L1MC2. EXTEND FEEDER TO NEW LOCATIONS SHOWN. REFER TO EP701 FOR ADDITIONAL INFORMATION. PROVIDE JUNCTION BOXES AS REQUIRED FOR EXISTING TO REMAIN BRANCH CIRCUITS THAT ARE TO BE EXTENDED TO NEW PANEL LOCATIONS. PROVIDE ADDITIONAL CONDUIT AND CONDUCTORS AS REQUIRED. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

1

GND N

GND N

		ON	E-LINE SYMBOLS		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
`A'	LIGHTING AND APPLIANCE PANEL BOARD	'A'	DISTRIBUTION PANEL	-'A'	LOAD CENTER
°)	CIRCUIT BREAKER		CIRCUIT BREAKER ENCLOSED		CIRCUIT BREAKER ELECTRONIC
	NORMALLY OPEN CONTACT	¥	NORMALLY CLOSED CONTACT	ل ک	THERMAL OVERLOAD
6	MOTOR	K	KEY INTERLOCK	©	RELAY COIL
	DISCONNECT SWITCH		DISCONNECT SWITCH FUSED	SPD	SURGE SUPPRESSION DEVICE
	FUSED SWITCH		COMBINATION MCP STARTER WITH THERMAL OVERLOAD		COMBINATION FUSIBLE STARTER WITH THERMAL OVERLOAD
0	MUSHROOM PUSH BUTTON	P	PHASE FAILURE RELAY	M	METER
	AUTOMATIC TRANSFER SWITCH		GROUND		CURRENT TRANSFORMER
	TRANSFORMER	a	GUTTER	6	GENERATOR
GND N	GROUND AND NEUTRAL	0	STANDARD SWITCHED WAY		GROUND RODS
+(POWER FACTOR CORRECTION CAPACITOR & ENCLOSURE		CT CABINET	0	PULLING SECTION
	CAM LOCK MALE		CAM LOCK FEMALE	<u> </u>	LIGHTNING PROTECTION
	COLD WATER PIPE		BUILDING STEEL		CONCRETE ENCASED ELECTRODE
	ISOLA TRAN	TION AUTOMATIC SFER SWITCH			MAIN SWITCHBOARD
0 0	o o o	BAR		•	GROUND SLEEVE

ENGINEERING 240 E. MORRIS AVE. SUITE 200 SALT LAKE CITY, UT 84115 P (801) 534-1130 F (801) 534-1080 www.envisioneng.com

1 SCALE: NTS

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TELECOMMUNICATIONS REISER DIAGRAM

2

TELECOMMUNICATIONS GENERAL NOTES AND GUIDELINES:

COORDIANTION

1. CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION MEETING WITH OWNER'S REPRESENTATIVES AND ELECTRICAL ENGINEER PRIOR TO BEGINNING ANY WORK OR PURCHASING ANY EQUIPMENT.

<u>GENERAL</u>

- 1. ALL TELECOM ROOMS SHALL BE LINED WITH 3/" A/C OR BETTER PLYWOOD EXTENDING 8' HIGH WITH OUTLETS EXTENDING FLUSH WITH THE SURFACE OF THE WOOD AT 6 FT ABOVE FINISHED FLOOR. 2. ALL BACKBONE AND/OR RISER CONDUITS SHOULD EXTEND 3" FROM THE FLOOR OR CEILING AND NO
- MORE THAN 2" OFF ANY WALL. CONDUITS SHALL BE THREADED FOR COLLARS AND SPACE ALLOWED FOR BUSHINGS OR CAPS. 3. CONDUIT ROWS SHOULD NOT EXCEED TWO DEEP.
- 4. CONDUITS THAT ENTER A TELECOM ROOM SHOULD TERMINATE NEAR THE CORNERS TO ALLOW FOR PROPER RACKING. 5. ALL PATHWAYS MUST NOT EXCEED 295' FROM THE TELECOM RACK TO THE DATA OUTLET.
- 6. ALL PENETRATIONS THROUGH FIRE RATED WALL SHALL BE PROVIDED WITH FIRE RATED PATHWAYS, PUTTY PADS AND FIRE CAULKING SUCH THAT THE WALL RAITING IS MAINTAINED. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 7. REFER TO DRAWINGS AND SPECIFICATIONS FOR ALL OUTLET/DEVICE INSTALLATION REQUIREMENTS AND LOCATIONS.

ACCEPTABLE CONDUIT RUNS

- 1. MUST NOT HAVE A BEND OVER 90 DEGREES OR AN AGGREGATE OF BENDS IN EXCESS OF 180 DEGREES BETWEEN PULL POINTS. 2. CONDUIT SEGMENTS SHALL NOT EXCEED 100' WITHOUT A PULL POINT.
- 3. CONDUIT RUNS SHOULD BE LIMITED TO LESS THAN 150'
- 4. ALL CONDUITS SHALL BE EQUIPPED WITH A PULL CORD THAT HAS A MINIMUM RATING OF 200LBS. 5. CONDUIT SHALL BE SIZED PER ANSI/TIA/EIA 569-B, WITH A MINIMUM SIZE OF 1". SEE CONDUIT SIZING
- SCHEDULE FOR EXACT SIZES REQUIRED.
- 6. ALL HORIZONTAL CABLING CONDUIT RUNS SHALL BE SINGLE CONTINUOUS RUNS FROM THE VOICE/DATA OUTLET TO THE NEAREST ACCESSIBLE CEILING SPACE. JUNCTION BOXES ARE ALLOWED IN ACCESSIBLE LOCATIONS ONLY.
- 7. FLEXIBLE METALLIC AND FLEXIBLE NONMETALLIC CONDUIT ARE PROHIBITED.
- PATHWAYS AND CABLE SUPPORT 1. PATHWAYS MUST HAVE ADEQUATE SUPPORT TO WITHSTAND PULLING THE CABLES.
- 2. PATHWAYS SHOULD BE INSTALLED AT LEAST 3" OF CLEAR VERTICAL SPACE ABOVE THE CEILING TILES AND T-BARS TO ENSURE ACCESSIBILITY, AND SHOULD AT NO POINT REST OR BE SUPPORTED BY ANY COMPONENT OF THE SUSPENDED CEILING.

CABLE TRAYS

- ALL CABLE TRAYS MUST BE INSTALLED TO MEET NATIONAL AND LOCAL BUILDING CODES. 2. THE INSIDE OF A CABLE TRAY MUST BE FREE OF BURRS, SHARP EDGES, OR PROJECTIONS THAT CAN DAMAGE THE CABLE DURING INSTALLATION.
- 3. ELEVATION CHANGES AND OFFSETS MUST BE KEPT TO A MINIMUM.
- 4. TRAY SHOULD EXTEND AT LEAST 1" INTO THE TELECOM ROOM THEN WATERFALL TO LOWER CABLE RUNWAY SYSTEM TO ACCOMMODATE INTERNAL RACKING.
- 5. TRAYS SHOULD BE SUPPORTED EVERY 5' AND WITHIN 24" ON EACH SIDE OF A FITTING (UNLESS
- OTHERWISE NOTED BY THE MANUFACTURE). 6. ALL METALLIC CABLE TRAYS MUST BE GROUNDED, MARKED AND ALL SECTIONS BONDED IN ACCORDANCE WITH APPLICABLE CODES, STANDARDS AND REGULATIONS.
- 7. PATHWAYS SHOULD BE KEPT IN COMMON AREAS AS MUCH AS POSSIBLE TO AVOID FUTURE
- MAINTENANCE OCCURRING IN PRIVATE WORK AREAS OR CONFERENCE ROOMS. 8. CABLE TRAYS SHOULD BE SIZED TO BE AT NO MORE THAN 60% FILL (60% FILL OF ALLOWED 50% CABLE TRAY FILL) AT PROJECT COMPLETION. LARGER OR ADDITIONAL CABLE TRAY SHALL BE PROVIDED AS NECESSARY TO MEET THESE REQUIREMENTS.

GROUNDING AND BONDING

I. PROVIDE #6 CU MINIMUM BONDING JUMPER TO ALL CONDUITS, RACKS, CABINETS, CABLE TRAYS, LADDER TRAYS, AND OTHER RACEWAY AND EQUIPMENT AS REQUIRED.

ARCHITECTS 577 South 200 East S L C, Utah 84111 ph: (801) 533-2100 jrcadesign.com

4600 South Redwood | Taylorsville, UT 84123 SLCC PROJECT #: 20029 BID SET

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TESTING

VIEW AND PRINT THIS SHEET IN COLOR

EP702

					PA	NE	BC	DAR	DS	CHE	EDU	LE					
	PANEL NAI MOUNTING: SURFACE ENCLOSURE: NEMA 1 DOOR TYPE:		L1,	A	V	DLTAGE: 7 PHASE: 7 WIRES: 7	120/208 V 3 4	Vye		LC MA BUS MCB	DCATION: IN TYPE: RATING: RATING:	MECH MLO 400 A -	I. 030			FEED FROM: SPD: - NEUTRAL RATING: - ISOLATED GROUND: -	
	(EXISTING C)		IVIIII.	A.I.C.	KATING. I						-					
	T		1		OVT		DR		DREAN	EKS		0//T				1	
				LOad					R		c		Load				NOT
9	COFFEE BAR OUTLET	20 A	1		1	0 VA	0 VA	•			<u> </u>	2		1	20 A	-EXISTING LOAD NOW SPARE-	
9	COFFEE BAR OUTLET	20 A	1		3	• • • •	•	0 VA	0 VA			4		1	20 A	-EXISTING LOAD NOW SPARE-	
9	COFFEE BAR OUTLET	20 A	1		5					0 VA	0 VA	6		1	20 A	-EXISTING LOAD NOW SPARE-	
10	RCPT - VEST. 153	20 A	1	R	7	720 VA	0 VA					8		1	20 A	-EXISTING LOAD NOW SPARE-	
	-EXISTING LOAD NOW SPARE-	20 A	1		9			0 VA	0 VA			10		1	20 A	-EXISTING LOAD NOW SPARE-	
	-EXISTING LOAD NOW SPARE-	20 A	1		11					0 VA	0 VA	12		1	20 A	CONV. OUTLET RM 28,34,39	9
	-EXISTING LOAD NOW SPARE-	20 A	1		13	0 VA	0 VA					14		1	20 A	-EXISTING LOAD NOW SPARE-	
	-EXISTING LOAD NOW SPARE-	20 A	1		15			0 VA	0 VA			16		1	20 A	-EXISTING LOAD NOW SPARE-	
	-EXISTING LOAD NOW SPARE-	20 A	1		17					0 VA	0 VA	18		1	20 A	-EXISTING LOAD NOW SPARE-	
9	CONV. OUTLET RM 37,05	20 A	1		19	0 VA	0 VA	0.1/4	0.1/4			20		1	20 A	FLOOR BOX	9
9	CONV. OUTLET COPIER RM 05	20 A	1		21			0 VA	0 VA	0.)//	0.)//	22		1	20 A	FLOOR BOX	9
9		20 A	1		23	0.)(A	0.)/A			0 VA	0 VA	24		1	20 A		9
9		20 A	1		20	UVA	UVA	0.1/0	0.1/0			20		1	20 A		9
9		20 A	1		20			UVA	UVA	0.\/A	0.\/A	20		1	20 A		9
9		20 A	1		31	Ο ΜΑ	0.\/A				UVA	32		3	20 A	RM 064 COND. LINIT	9
5	-EXISTING SPARE-	20 A	1		33	0 74	0 17	0 VA	0 VA			34					
9	ATC NORTH	20 A	1		35			0 1/1	0 1/1	0 VA	0 VA	36					
	-EXISTING LOAD NOW SPARE-	20 A	1		37	0 VA	0 VA				-	38		1	20 A	-EXISTING LOAD NOW SPARE-	
	-EXISTING LOAD NOW SPARE-	20 A	1		39			0 VA	0 VA			40		1	20 A	-EXISTING LOAD NOW SPARE-	
9	ATC	20 A	1		41					0 VA	0 VA	42				-SPACE ONLY-	
9	RESTROOM SENSOR	20 A	1		43	0 VA	0 VA					44		1	20 A	PUMP P4A,P4B	9
	-EXISTING LOAD NOW SPARE-	20 A	1		45			0 VA	0 VA			46		1	20 A	EF-3, EF-4	9
	-EXISTING LOAD NOW SPARE-	20 A	1		47					0 VA	0 VA	48		1	20 A	EF-5, EF-6	9
	-EXISTING LOAD NOW SPARE-	20 A	1		49	0 VA	0 VA					50		1	20 A	PUMP P10	9
9	CONV. OUTLET RM 44,46,45	20 A	1		51			0 VA	0 VA			52		1	20 A	PLUGMOLD OUTLETS	9
9	CONV. OUTLET RM 47	20 A	1		53					0 VA	0 VA	54		1	20 A	PLUGMOLD OUTLETS	9
10	RCPT - TESTING 102	20 A	1	R	55	720 VA	0 VA					56		1	20 A	-EXISTING SPARE-	
10	RCPT - TESTING 102	20 A	1	R	57			720 VA	0 VA	0.) (4	0.) (A	58		1	20 A		9
	-EXISTING LOAD NOW SPARE-	20 A	1		59	0.1/4	0.)/4			0 VA	0 VA	60		1	20 A		9
	EXISTING LOAD NOW SPARE-	20 A	1		62	U VA	U VA	0.1/0	0.1/4			64		1	20 A		9
9		20 A	1		65			UVA	UVA	0.\/A	0.\/A	66		1	20 A		9
5	-EXISTING LOAD NOW SPARE-	20 A	1		67	0 VA	0 VA					68		3	30 A	TVSS	9
	-EXISTING LOAD NOW SPARE-	20 A	1		69	0 1/1	0 1/1	0 VA	0 VA			70					
	-EXISTING LOAD NOW SPARE-	20 A	1		71			• • • •		0 VA	0 VA	72					
	-EXISTING LOAD NOW SPARE-	20 A	1		73	0 VA	0 VA					74				-SPACE ONLY-	
9	WATER HEATER	40 A	2		75			0 VA	0 VA			76		2	30 A	-EXISTING LOAD NOW SPARE-	
					77					0 VA	0 VA	78					
	-EXISTING LOAD NOW SPARE-	20 A	1		79	0 VA	0 VA					80		1	20 A	-EXISTING LOAD NOW SPARE-	
	-EXISTING LOAD NOW SPARE-	20 A	1		81			0 VA	0 VA			82		1	20 A	-EXISTING LOAD NOW SPARE-	
	-EXISTING LOAD NOW SPARE-	20 A	1		83					0 VA	0 VA	84		1	20 A	-EXISTING LOAD NOW SPARE-	
	-SEC I SPACE ONLY-				85	0 VA	0 VA					86		3	225 A	SEC I - PANEL L2A	9
	-SEC I SPACE ONLY-				87			0 VA	0 VA			88					
	-SEC I SPACE ONLY-				89					0 VA	0 VA	90					
					91	0 VA	0 VA	0.1/4	0.1/4			92					
					93			U VA	0 VA	0.)(A	0.)//	94					
					95 F (\/A)	1440		720				90				-SEC II SPACE ONE F-	
	TOTAL CONNECTED CUR	RENT P	PER PH	HASE (/	AMPS)	13	A	7	A	() A						
									CTOD I	COTINANT							
D I YPE							ע DE		UIUK	LOIIMAT		עא				PANEL IUTALS	
	Recentacle			_	214			0.00%) זר	60 \/A			т	otal Co	nn Load: 2160 \/A	
	Lighting			_	<u>کار ک</u>	VA		0.00%	,	 ۲) VA		25%		RGEST		
C	Continuous				0	VA		0.00%		() VA		/0		tal Est	Demand: 2160 VA	
E	Equipment				0	VA		0.00%		() VA			Tota	al Conn	. Current: 6 A	
M Motor			0	VA		0.00%		() VA		Total Est. Demand Current: 6 A						

PANEL NAME: EML1

MOUNTING: SURFACE

ENCLOSURE: NEMA 1

K Kitchen

O Other

4

DOOR TYPE: -(EXISTING)

							BR	ANCH E	BREAKE	ERS							
KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #	4	λ		3	(C	СКТ #	Load Type	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE
9	RM 062A TIB OUTLET	20 A	1		1	0 VA	0 VA					2		1	20 A	RM 022A TIB OUTLET	9
9	ELEVATOR CONTROL & LIGHTS	20 A	1		3			0 VA	0 VA			4		1	20 A	RM 064 TIB OUTLET	9
8	L5-30R - RM 064 TELECOM RACK	20 A	2	E	5					2500 VA	0 VA	6		1	20 A	RM 064 TIM OUTLET	9
					7	2500 VA	0 VA					8		1	20 A	STEP LIGHTS	9
9	SCP	20 A	1		9			0 VA	2500 VA			10	Е	2	30 A	L5-30R - RM 064 TELECOM RACK	8
9	DIALER	20 A	1		11					0 VA	2500 VA	12					
10	RACK OUTLET - TELECOM 104	20 A	1		13	180 VA	0 VA					14		1	30 A	RM 022A TELECOM RACK	9
10	NAC - TELECOM 104	20 A	1	E	15			500 VA	0 VA			16		1	20 A	-EXISTING SPARE-	
	-EXISTING SPARE-	20 A	1		17					0 VA	0 VA	18	ł	1	20 A	SUMP PUMP	9
9	RM 064 TELECOM RACK	30 A	1		19	0 VA	0 VA					20	1	1	20 A	SUMP PUMP	9
9	SEWAGE EJECTOR PUMP	20 A	3		21			0 VA	0 VA			22	ł	2	30 A	RM 022A TELECOM RACK	7,9
					23					0 VA	0 VA	24	1				
					25	0 VA	0 VA					26		1	30 A	RM 064 TELECOM RACK	9
7,9	RM 064 TELECOM RACK	30 A	2		27			0 VA	0 VA			28		2	30 A	RM 064 TELECOM RACK	7,9
		-			29					0 VA	0 VA	30	-				
	TOTAL CONNECTED		D PER	PHAS	E (VA)	2680	VA	300	D VA	5000	AV C						
	TOTAL CONNECTED CURR	ENT P	ER PH	IASE (A	AMPS)	22	Α	25	δA	42	2 A						

TYPE	LOAD CLASSIFICATION	C
Р	Panel	
R	Receptacle	
L	Lighting	
С	Continuous	
Е	Equipment	
М	Motor	
κ	Kitchen	
0	Other	

PANELBOARD SCHEDULE

0.00%

0.00%

VOLTAGE: 120/208 Wye **PHASE:** 3 WIRES: 4 Min. A.I.C. RATING: FIELD VERIFY

0 VA

0 VA

MAIN TYPE: MCB BUS RATING: 225 A MCB RATING: 225 A

BUS MATERIAL: COPPER

LOCATION: MECH. 030

0 VA

0 VA

FEED FROM: SPD: -NEUTRAL RATING: -ISOLATED GROUND: -

ONNECTED LOAD DEMAND FACTOR ESTIMATED DEMAND PANEL TOTALS 0 VA 0.00% 0 VA 180 VA 180 VA Total Conn. Load: 10680 VA 100.00% 25% OF LARGEST MOTOR: 0 VA 0.00% 0 VA 0 VA 0.00% 0 VA Total Est. Demand: 10680 VA 10500 VA 100.00% 10500 VA Total Conn. Current: 30 A 0 VA 0.00% 0 VA Total Est. Demand Current: 30 A 0 VA 0.00% 0 VA 0 VA 0.00% 0 VA

2

					PA	NE	LBC)ARI	DS	CHE	EDU	LE							RCA
	PANEL NAI MOUNTING: SURFACE ENCLOSURE: NEMA 1 DOOR TYPE: -	ME:	H1	A	V	OLTAGE: PHASE: WIRES: RATING [.]	480/277 W 3 4 FIELD VE	/ye RIFY		LO MA BUS MCB BUS M4	CATION: IN TYPE: RATING: RATING:	MECH MLO 400 A -	. 030			FEED FROM: SPD: - NEUTRAL RATING: - ISOLATED GROUND: -			
KEYE NOTI 9	CIRCUIT DESCRIPTION	AMP 20 A	POLE	Min. Load Type 	A.I.C. CKT # 1	0 VA	BR A 4024 VA		REAK			- CKT # 2	Load Type L	POLE	AMP 20 A	CIRCUIT DESCRIPTION LTG - LOWER LEVEL	KEYED NOTE	<u>A R C</u> 577 S S L C	<u>HITECTS</u> outh 200 East , Utah 84111
9	LTG RM 8,12,4,10,14	20 A	1		3 5			UVA	0 VA	0 VA	0 VA	4			20 A	-SPACE ONLY-		ph: (8	01) 533-2100
9	LTG EXT. WALKWAY	20 A	1		7	0 VA	0 VA	0.)/0	0.\/A			8				-SPACE ONLY-		jrcac	lesign.com
9	-EXISTING LOAD NOW SPARE-	20 A	1		9 11				UVA	0 VA	0 VA	10		1	20 A 20 A	LIGHTING CONTROL PANEL	9		
	-EXISTING LOAD NOW SPARE-	20 A	1		13	0 VA	0 VA	0.)/A	0.\/A			14		1	20 A	-EXISTING LOAD NOW SPARE-			
	-EXISTING LOAD NOW SPARE-				17				UVA	0 VA	0 VA	18				-SPACE ONLY-			
	-SPACE ONLY-				19	0 VA	0 VA	0.)/0	0.)/4			20		3	20 A	CP-1	9		
	-SPACE ONLY-				21			UVA	U VA	0 VA	0 VA	22							
9	45KVA XFRM PANEL L1C	70 A	3		25	0 VA	0 VA	0.)/A	0.)//			26		3	20 A	CP-2	9		
					27				UVA	0 VA	0 VA	30							
9	VFD-1 15HP	40 A	3		31	0 VA	0 VA	0.)/A	0.)/4			32		3	30 A	VFD-7 7.5 HP	9		
					35				UVA	0 VA	0 VA	36							
9	PANEL H2A, H3A	225 A	3		37	0 VA	0 VA	0.\/A	0.\/A			38				-SPACE ONLY-			
					41				UVA	0 VA	0 VA	40				-SPACE ONLY-			
	TOTAL CONNECTE TOTAL CONNECTED CURI	ED LOA RENT F	d Per Per Pi	R PHAS HASE (/	e (VA) Amps)	402	4 VA 5 A	0 V. 0 A	Ά Α	0	VA A			·					
TYPE	LOAD CLASSIFICATION			CC	ONNEC	TED LOA	D DEI	MAND FAC	TOR	ESTIMATI	ed demai	ND				PANEL TOTALS			
Р	Panel				0	VA		0.00%		0	VA			T	atal Ca	mm L and (1024.)/A			
R L	Lighting				402	24 VA		125.00%		503	30 VA		25%		RGEST				
C	Continuous				0	VA		0.00%		0	VA			Tot	tal Est.	Demand: 5030 VA			
M	Motor				0	VA VA		0.00%		0	VA VA		Total	Est. D)emand	I Current: 6 A			
K	Kitchen				0	VA		0.00%		0	VA								
0	Other				0	VA		0.00%		0	J VA								
	PANEL NAI MOUNTING: SURFACE ENCLOSURE: NEMA 1 DOOR TYPE: - (EXISTING	ME:	L1	C Min.	V(A.I.C.	OLTAGE: PHASE: WIRES: RATING:	120/208 W 3 4 FIELD VEF BR	/ye RIFY ANCH B I	REAK	LO MA BUS MCB BUS MA	CATION: IN TYPE: RATING: RATING: ATERIAL:	MECH MCB 250 A 125 A COPPI	. 030 ER			FEED FROM: SPD: - NEUTRAL RATING: - ISOLATED GROUND: -			
KEYE				Load	CKT		٨	Р			<u> </u>	CKT	Load				KEYED		
9	OPEN AREA COMP TABLES	20 A	1		# 1	0 VA	A 0 VA	B				# 2		1	20 A	OPEN AREA COMP TABLES	9		
9	OPEN AREA COMP TABLES	20 A	1		3			0 VA	0 VA	0.\/A	0.\/A	4		1	20 A	OPEN AREA COMP TABLES	9		
9	OPEN AREA COMP TABLES	20 A	1		7	0 VA	0 VA			UVA	UVA	8		1	20 A	OPEN AREA COMP TABLES	9		
9 9	OPEN AREA COMP TABLES	20 A	1		9 11			0 VA		0 VA	1500 VA	10 12	ĸ	1	20 A	RCPT - WORK RM 107	10		
9	OPEN AREA COMP TABLES	20 A	1		13	0 VA	1500 VA					14	K	1	20 A	RCPT - WORK RM. 107	10		
9 10	OPEN AREA COMP TABLES RCPT - OFFICE 109	20 A 20 A	1	 R	15 17			0 VA	0 VA	900 VA	0 VA	16 18		1	20 A 20 A	-EXISTING LOAD NOW SPARE- OPEN AREA COMP TABLES	9		۶d
10	RCPT - OFFICE 108	20 A	1	R	19	900 VA	0 VA					20		1	20 A	OPEN AREA COMP TABLES	9		d F 23
10	-EXISTING LOAD NOW SPARE-	20 A 20 A	1	R 	21 23			540 VA	0 VA	0 VA	0 VA	22 24		1	20 A 20 A	OPEN AREA COMP TABLES	9		41;
9	OPEN AREA COMP TABLES	20 A	1		25	0 VA	0 VA	0.)(A	0.)/4			26		1	20 A	OPEN AREA COMP TABLES	9		мр И 8
9	OPEN AREA COMP TABLES	20 A	1		27			UVA	UVA	0 VA	0 VA	30		1	20 A	OPEN AREA COMP TABLES	9	Ш	⊂ R
9 10	OPEN AREA COMP TABLES	20 A	1	 D	31	0 VA	0 VA		1500 \/A			32		1	20 A	OPEN AREA COMP TABLES	9		uth lle,
10	RCPT - OFFICE 113	20 A	1	R	35			900 VA	1300 VA	900 VA	600 VA	36	E	1	20 A	WASHER - WORK RM. 107	10	0	Sou
10 10	RCPT - OFFICE 114	20 A	1	R	37	900 VA	1200 VA	900 \/A	3000 \/A			38	K R	1	20 A	FRIDGE - WORK RM. 107	10		lor
10	RCPT - OFFICE 110	20 A	1	R	41				0000 1/1	900 VA	0 VA	42				-EXISTING LOAD NOW SPARE-			-ay
	TOTAL CONNECTE TOTAL CONNECTED CUR	ED LOA RENT F	d Per Per Pi	R PHAS HASE (/	e (VA) Amps)	450 38	0 VA 3 A	6840 57	VA A	480	0 VA 0 A								✓ ⊢
TYPE				CC	ONNEC	TED LOA	D DEI	MAND FAC	TOR	ESTIMATI		ND				PANEL TOTALS			BID SET
R	Receptacle				0 684	40 VA		100.00%		0 684	40 VA			Тс	otal Co	nn. Load: 16140 VA			2/17/2021
L	Lighting				0	VA		0.00%		0	VA		25%	OF LA	RGEST	MOTOR:			E REVISION
E	Equipment				210	00 VA		100.00%		210	00 VA			Tota	l Conn	. Current: 45 A			
M	Motor Kitchen				720			0.00%		0) VA 40 VA		Total	Est. D	emand	I Current: 39 A			
0	Other				0	VA		0.00%		0	VA								
PAN	ELBOARD SCHEDULE KEYED NOT																		
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	PROVIDE CLASS A GROUND FAI PROVIDE ARC FAULT CIRCUIT IN PROVIDE 30 MILLIAMPERE EQUI PROVIDE SHUNT TRIP CIRCUIT I PROVIDE HACR RATED CIRCUIT PROVIDE HANDLE CLAMP FOR H BREAKER HANDLE TIES. PROVIDE NEW CIRCUIT BREAKE EXISTING LOAD UTILIZE EXISTING SPARE BREAK	ULT IN ⁻ NTERR IPMEN ⁻ BREAK BREAK BREAK HOLDIN ER IN E KER OF	TERRU UPTEF T GRO ER WI KER. NG CIF NG CIF XISTIN	JPTER R TYPE UND F/ TH 120 CUIT E IG PAN	TYPE CIRCI AULT I V CO BREAK IELBO	CIRCUIT I PROTECT IL. ER IN THI ARD (WHI	BREAKER KER OR TYE C E "ON" OR ERE PANE FROM DE	CIRCUIT BR "OFF" POS EL IS LOCA EMOLITION	EAKER. SITION. TED AS	EXISTING	i) OF SAM	E MAN	IUFAC	TUREF	R AND /	A.I.C. RATING AS EXISTING.		AND COLOR	BOBO39-2202 ALEKSANDAR RANKOVIC 12/11/2020
								PAI	NEL	LEG	END								PANEL
<u>s</u>	PECIAL NOTE:	_																SC	HEDULES
A A	LL EXISTING CIRCUITS AND NEW	CIRCU E BASE	ITS TIE ED ON	ED TO RECO	RD				L	_1A		Η	1A						
D S C R	RAWINGS AND FIELD OBSERVATI HALL TRACE AND CONFIRM ALL E ONTRACTOR SHALL REDLINE AS- EQUIRED IN SPECIFICATIONS	ONS. C XACT (BUILT	CIRCU CIRCU CIRCU	ACTOF	२ AS				E	ML1		Ľ	1C			ENVIS	ON		

					PA	NEL	BC	DARD S	CHE	DU	LE							B	RCA
	PANEL NAI MOUNTING: SURFACE ENCLOSURE: NEMA 1 DOOR TYPE: -	ME:	H1	A	V	DLTAGE : 48 PHASE : 3 WIRES : 4	0/277 V	Vye	LOC MAIN BUS R MCB R	CATION: I N TYPE: I RATING: 4 RATING: 4	MECH MLO 400 A	. 030		F NEUTR ISOLATE	EED FROM: SPD: - AL RATING: - D GROUND: -				
	(EXISTING G	SE)		Min.	A.I.C.	RATING: FIE	ELD VE	RIFY	BUS MAT	TERIAL: -	-								
KEYED				Load	СКТ						СКТ	Load				KEYED		<u>ARU</u> 577 Sc	$\frac{\text{HIECIS}}{\text{Wth 200 East}}$
NOTE 9	LTG RM 14 NORTH	20 A	POLE	Iype 	# 1	0 VA 4	024 VA	B	C	;	# 2	L I I I I I I I I I I I I I I I I I I I	DLE AMP 1 20 A	LTG - LO	WER LEVEL	10		SLC.	Utah 84111
9	LTG RM 14 SOUTH	20 A	1		3			0 VA 0 VA	0.\/A	0.VA	4		1 20 A	LTG RM	14 EAST	9		ph: (80	1) 533-2100
9	LTG EXT. WALKWAY	20 A	1		7	0 VA	0 VA				8			-SPACE (ONLY-			jrcad	esign.com
9	LTG EXT. WALKWAY -EXISTING LOAD NOW SPARE-	20 A 20 A	1		9 11			0 VA 0 VA	0 VA	0 VA	10 12		1 20 A 1 20 A		ARTWORK G CONTROL PANEL	9			
	-EXISTING LOAD NOW SPARE-	20 A	1		13	0 VA	0 VA				14		1 20 A	-EXISTIN	G LOAD NOW SPARE-				
	-EXISTING LOAD NOW SPARE-	20 A			15				0 VA	0 VA	18			-SPACE (GLOAD NOW SPARE- DNLY-				
	-SPACE ONLY-				19 21	0 VA	0 VA				20 22		3 20 A	CP-1		9			
	-SPACE ONLY-				23				0 VA	0 VA	24								
9	45KVA XFRM PANEL L1C	70 A	3		25 27	0 VA	0 VA	0 VA 0 VA			26 28		3 20 A 	CP-2 		9			
 9	 VED-1 15HP	 40 A	 3		29 31	0.\/A	0 \/A		0 VA	0 VA	30 32		 3 30 A	 VED-7.7 /	5 HP	 9			
					33			0 VA 0 VA			34				5111				
 9	 PANEL H2A, H3A	 225 A	 3		35 37	0 VA	0 VA		0 VA	0 VA	36 38			 -SPACE (ONLY-				
					39			0 VA 0 VA	0.)/0	0.\/A	40			-SPACE	ONLY-				
	TOTAL CONNECTE	ED LOA	D PER	 R PHAS	6E (VA)	4024 \	/Α	0 VA	0 VA 0 V	/A	42			-SPACE	JINE T-				
	TOTAL CONNECTED CUR	RENT P	PER PH	HASE (AMPS)	15 A		0 A	0 /	A									
TYPE	LOAD CLASSIFICATION			C	ONNEC		DE	MAND FACTOR	ESTIMATE					PANEL	TOTALS				
P	Panel				0	VA		0.00%	0	VA									
R L	Lighting				402	24 VA		125.00%	5030	VA 0 VA		25% OF	LARGES	T MOTOR:	4024 VA				
C	Continuous				0	VA VA		0.00%	0	VA VA			Total Est	. Demand:	5030 VA				
M	Motor				0	VA		0.00%	0	VA		Total Es	st. Deman	d Current:	6 A				
K O	Kitchen Other				0	VA VA		0.00%	0	VA VA									
					_				<u></u>		-	-							
					PA	NEL	BC	<u>)ARD S</u>	CHE	DU	LE								
	PANEL NA	ME:	L1	С					LOC	CATION: I	MECH	030		F	EED FROM:				
	MOUNTING: SURFACE				V	DLTAGE: 12	0/208 V	Vye	MAI	N TYPE:	MCB				SPD: -				
	DOOR TYPE: -					WIRES: 4			BUS R MCB R	RATING: 2 RATING: 7	250 A 125 A			ISOLATE	al Rating: - D GROUND: -				
	(EXISTING			Min.	A.I.C.	RATING: FIE				TERIAL: (COPPE	ER							
KEYED				Load	СКТ		DR				СКТ	Load				KEYED			
NOTE 9	CIRCUIT DESCRIPTION OPEN AREA COMP TABLES	AMP 20 A	POLE	E Type 	#	A	0 VA	B	C	;	# 2	Type PC	DLE AMP 1 20 A	OPEN AF	CUIT DESCRIPTION REA COMP TABLES	NOTE 9			
9	OPEN AREA COMP TABLES	20 A	1		3			0 VA 0 VA	0.)(0	0.)/A	4		1 20 A		REA COMP TABLES	9			
9	OPEN AREA COMP TABLES	20 A 20 A	1		7	0 VA	0 VA		UVA	UVA	8		1 20 A 1 20 A	OPEN AF	REA COMP TABLES	9		Ē	
9 9	OPEN AREA COMP TABLES OPEN AREA COMP TABLES	20 A	1		9			0 VA	0 VA	1500 VA	10 12	К	1 20 A	RCPT - W	/ORK RM. 107	10		Z	
9	OPEN AREA COMP TABLES	20 A	1		13	0 VA 1	500 VA				14	K	1 20 A	RCPT - W	/ORK RM. 107	10		Ш	
9 10	RCPT - OFFICE 109	20 A	1	 R	15 17			UVA UVA	900 VA	0 VA	16 18		1 20 A 1 20 A	OPEN AF	G LOAD NOW SPARE- REA COMP TABLES	9			Rd
10 10	RCPT - OFFICE 108 RCPT - HALL 111	20 A	1	R	19 21	900 VA	0 VA	540 VA 0 VA			20 22		1 20 A	OPEN AF	REA COMP TABLES	9		Y	od 23
	-EXISTING LOAD NOW SPARE-	20 A	1		23		0.1/4		0 VA	0 VA	24		1 20 A	OPEN AF	REA COMP TABLES	9			841
9	OPEN AREA COMP TABLES	20 A	1		25	UVA	0 VA	0 VA 0 VA			26 28		1 20 A 1 20 A	OPEN AF	REA COMP TABLES	9		່. ດ່	ied JT 8
9	OPEN AREA COMP TABLES	20 A	1		29 31	0.\/A	0 \/A		0 VA	0 VA	30 32		1 20 A		REA COMP TABLES	9		Ш	л Ч
10	RCPT - OFFICE 112	20 A	1	R	33		• • • •	900 VA 1500 VA			34	E	1 20 A	COPIER	- WORK RM. 107	10			ville
10 10	RCPT - OFFICE 113 RCPT - OFFICE 114	20 A 20 A	1	R	35 37	900 VA 12	200 VA		900 VA	600 VA	36 38	K K	1 20 A 1 20 A	FRIDGE ·	· WORK RM. 107	10		C C) S(Drs [,]
10 10	RCPT - OFFICE 115 RCPT - OFFICE 110	20 A	1	R	39 41			900 VA 3000 VA	900 VA	0 VA	40 42	R	1 20 A	RCPT - W	/ORK RM. 107 G LOAD NOW SPARE-	10			30C aylc
	TOTAL CONNECTE		D PER	R PHAS	E (VA)	4500 V	/A	6840 VA	4800	VA	12			Extorne				S	4 H
	TOTAL CONNECTED CUR	RENIP	'ER Pf	HASE (AMPS)	38 A		57 A	40	A							-	PROJE	CT #: 20029
TYPE	LOAD CLASSIFICATION			C	ONNEC	TED LOAD	DE	MAND FACTOR	ESTIMATE	D DEMAN	ID			PANEL	TOTALS		L		
P	Panel				0 68/			0.00%	0 \ 684(Total C	nn Load:	16140 VA				2/17/2021
L	Lighting				00-	VA		0.00%	0	VA		25% OF	LARGES	T MOTOR:			-		REVISION
C E	Continuous Equipment				0 21(VA 00 VA		0.00%	2100	VA 0 VA		1	Total Est Fotal Con	. Demand: n. Current:	13980 VA 45 A				
M	Motor Kitebop				0	VA		0.00%	0	VA		Total Es	st. Deman	d Current:	39 A				
<u>к</u> О	Other				0	VA		0.00%	0 \	VA VA									
_																	L		
PANE	ELBOARD SCHEDULE KEYED NOT	<u>TE:</u>			T \0												ſ	- USE	NAL ST
1. 2.	PROVIDE CLASS A GROUND FAI PROVIDE ARC FAULT CIRCUIT IN					JIT BREAKE	EANER R											SHARE BSS	NGINE ENCINE
3. 4. 5	PROVIDE SU MILEIAMPEIRE EQUI PROVIDE SHUNT TRIP CIRCUIT	BREAK	ER WI	ITH 120	V CO	IL.		SINCOTI DINEAREN.										98	08039-2202
6. 7	PROVIDE HANDLE CLAMP FOR I	HOLDIN		RCUIT E	BREAK	ER IN THE "(ON" OF	R "OFF" POSITION.											RANKOVIC
8. 9	PROVIDE NEW CIRCUIT BREAKE	ER IN E	XISTIN	NG PAN	NELBO	ARD (WHER	E PANI	EL IS LOCATED AS	EXISTING)	OF SAME	E MAN	UFACTU	RER AND	A.I.C. RAT	ING AS EXISTING.			of king	E OF UTAL
10.	UTILIZE EXISTING SPARE BREAK	KER OF	R BRE	AKE M	ADE A	/AILABLE FF	ROM DI	EMOLITION FOR NE	EW LOAD									-23	12/11/2020
																	ſ		
r								PANFI	FGI	END								C	
S	PECIAL NOTE:												_					٦ SCF	
AL AV	L EXISTING CIRCUITS AND NEW AILABLE BREAKERS SHOWN AR	CIRCUI E BASE	TS TIE	ED TO RECO	RD				_1A		H	1A							
	KAVVINGS AND FIELD OBSERVATI IALL TRACE AND CONFIRM ALL E	EXACT (UN FR CIRCU	ACTO JITING.	ĸ			F	MI 1		1 ^	10				ΙΠΝ			

			PAN	ELBOARD	SCHEDL	JLE				IRCA
	PANEL NA MOUNTING: SURFACE ENCLOSURE: NEMA 1 DOOR TYPE: - (EXISTING O	ME: H1	VOLTAG PHAS WIRE Min. A.I.C. RATIN	E: 480/277 Wye E: 3 S: 4 G: FIELD VERIFY	LOCATION: MAIN TYPE: BUS RATING: MCB RATING: BUS MATERIAL:	MECH. 030 MLO 400 A -		FEED FROM: SPD: - NEUTRAL RATING: - ISOLATED GROUND: -		
KEYED NOTE			Load CKT E Type #	BRANCH BREA	AKERS c	CKT Load # Type	1 POLE AN		KEYED NOTE	ARCHITECTS 577 South 200 East
9 9 9	LTG RM 14 NORTH LTG RM 14 SOUTH LTG RM 8,12,4,10,14	20 A 1 20 A 1 20 A 1 20 A 1	1 0 V/ 3 5	A 4024 VA 0 VA 0 V	/A 0 VA 0 VA	2 L 4 6	1 20 1 20 	A LTG - LOWER LEVEL A LTG RM 14 EAST SPACE ONLY-	10 9 	S L C, Utah 84111 ph: (801) 533-2100
9	LTG EXT. WALKWAT LTG EXT. WALKWAY -EXISTING LOAD NOW SPARE- -EXISTING LOAD NOW SPARE-	20 A 1 20 A 1 20 A 1 20 A 1 20 A 1	9 11 13 0 V/	A 0 VA 0 V A 0 VA 0 V	/A 0 VA 0 VA	0 10 12 14	1 20 1 20 1 20 1 20	A FUTURE ARTWORK A LIGHTING CONTROL PANEL A -EXISTING LOAD NOW SPARE	9 9 -	Jicadesign.com
	-EXISTING LOAD NOW SPARE- -SPACE ONLY-	20 A 1 	15 17 19 0 V/	0 VA 0 V A 0 VA	/A 0 VA 0 VA	16 18 20 22	1 20 3 20	 A -EXISTING LOAD NOW SPARE SPACE ONLY- A CP-1 	- 9	
 9 	-SPACE ONLY- 45KVA XFRM PANEL L1C 	 70 A 3 	23 25 0 V/ 27	A 0 VA 0 VA 0 V	0 VA 0 VA /A	22 24 26 28	 3 20) A CP-2 		
 9 	 VFD-1 15HP 	 40 A 3 	29 31 0 V/ 33	A 0 VA 0 V	0 VA 0 VA /A	30 32 34	 3 30) A VFD-7 7.5 HP 	 9 	
9 	 PANEL H2A, H3A 	225 A 3	35 37 0 V/ 39 41	A 0 VA 0 V 0 VA 0 V	/A 0 VA 0 VA	36 38 40 42	 	 SPACE ONLY- SPACE ONLY- SPACE ONLY-		
	TOTAL CONNECTI TOTAL CONNECTED CUR	ED LOAD PEI RRENT PER P	R PHASE (VA)	4024 VA 0 VA 15 A 0 A	0 VA 0 A					
TYPE P	LOAD CLASSIFICATION Panel		CONNECTED L	OAD DEMAND FACTOR	ESTIMATED DEMA	ND		PANEL TOTALS		
R L	Receptacle Lighting		0 VA 4024 VA	0.00% 125.00%	0 VA 5030 VA	25%	Total OF LARGE	Conn. Load: 4024 VA EST MOTOR:		
C E	Continuous Equipment		0 VA 0 VA	0.00%	0 VA 0 VA		Total E Total Co	Est. Demand: 5030 VA onn. Current: 5 A		
M K O	Motor Kitchen Other		0 VA 0 VA 0 VA	0.00% 0.00% 0.00%	0 VA 0 VA 0 VA	Tota	al Est. Dem	and Current: 6 A		
	PANEL NA MOUNTING: SURFACE ENCLOSURE: NEMA 1 DOOR TYPE: -	ME: L1	PAN C VOLTAG PHAS WIRE	ELBOARD E: 120/208 Wye E: 3 S: 4 C: EIELD VERIEX	LOCATION: MAIN TYPE: BUS RATING: MCB RATING: BUS MATEPIAL	MECH. 030 MCB 250 A 125 A		FEED FROM: SPD: - NEUTRAL RATING: - ISOLATED GROUND: -		
KEVED				BRANCH BREA	AKERS		4		KEYED	
NOTE 9	CIRCUIT DESCRIPTION	AMP POLI 20 A 1	E Type #	A B A OVA	С	2	POLE AN	MPCIRCUIT DESCRIPTIONAOPEN AREA COMP TABLES	NOTE 9	
9 9	OPEN AREA COMP TABLES	20 A 1 20 A 1	3 5	0 VA 0 V	/A 0 VA 0 VA	4 6	1 20 1 20	A OPEN AREA COMP TABLES	9	
9	OPEN AREA COMP TABLES	20 A 1 20 A 1	7 0 V/	A 0 VA 0 VA		8 10	1 20	A OPEN AREA COMP TABLES	9	
9	OPEN AREA COMP TABLES	20 A 1 20 A 1	11 13 0.V/	A 1500 VA	0 VA 1500 VA	A 12 K	1 20	A RCPT - WORK RM. 107	10	
9 10	OPEN AREA COMP TABLES	20 A 1 20 A 1	15 R 17	0 VA 0 V	/A 900 VA 0 VA	16 18	1 20	A -EXISTING LOAD NOW SPARE	- 9	
10 10	RCPT - OFFICE 108 RCPT - HALL 111 -EXISTING LOAD NOW SPARE-	20 A 1 20 A 1 20 A 1 20 A 1	R 19 900 V R 21 23	VA 0 VA 540 VA 0 V	/A 0 VA 0 VA	20 22 24	1 20 1 20 1 20	AOPEN AREA COMP TABLESAOPEN AREA COMP TABLESAOPEN AREA COMP TABLESAOPEN AREA COMP TABLES	9 9 9 9	FING wood F 84123
9 9 9 9 9	OPEN AREA COMP TABLES OPEN AREA COMP TABLES OPEN AREA COMP TABLES OPEN AREA COMP TABLES	20 A 1 20 A 1 20 A 1 20 A 1 20 A 1	25 0 V/ 27 29 31 0 V/	A 0 VA 0 VA 0 V 0 VA 0 V A 0 VA	/A 0 VA 0 VA	26 28 30 32	1 20 1 20 1 20 1 20 1 20	 A OPEN AREA COMP TABLES 	9 9 9 9	h Red , UT 8
10 10 10	RCPT - OFFICE 112 RCPT - OFFICE 113 RCPT - OFFICE 114	20 A 1 20 A 1 20 A 1 20 A 1	R 33 R 35 R 37	A 1200 VA 2000	900 VA 600 VA	34 E 36 E 38 K	1 20 1 20 1 20	ACOPIER - WORK RM. 107AWASHER - WORK RM. 107AFRIDGE - WORK RM. 107	10 10 10	CC - O Sout
10 10	RCPT - OFFICE 115 RCPT - OFFICE 110 TOTAL CONNECTI TOTAL CONNECTED CUR	20 A 1 20 A 1 ED LOAD PEI RENT PER P	R 39 R 41 R PHASE (VA) 4 41	4500 VA 6840 VA 38 A 57 A	900 VA 0 VA 4800 VA 40 A	40 R 42	1 20	EXISTING LOAD NOW SPARE		SL 460 Tayl
TYPE	LOAD CLASSIFICATION		CONNECTED L	OAD DEMAND FACTOR		ND		PANEL TOTALS		PROJECT #: 20029
P R	Panel Receptacle		0 VA 6840 VA	0.00%	0 VA 6840 VA		Total	Conn. Load: 16140 VA		BID SET 2/17/2021
L	Lighting Continuous		0 VA 0 VA	0.00%	0 VA 0 VA	25%	OF LARGE	EST MOTOR: Est. Demand: 13980 VA		DATE REVISION
E	Equipment Motor		2100 VA	100.00%	2100 VA	Tot	Total Co	onn. Current: 45 A		
K O	Kitchen Other		7200 VA 0 VA	70.00% 0.00%	5040 VA 0 VA					
PANE 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	ELBOARD SCHEDULE KEYED NO PROVIDE CLASS A GROUND FA PROVIDE ARC FAULT CIRCUIT II PROVIDE 30 MILLIAMPERE EQU PROVIDE SHUNT TRIP CIRCUIT PROVIDE HACR RATED CIRCUIT PROVIDE HANDLE CLAMP FOR BREAKER HANDLE TIES. PROVIDE NEW CIRCUIT BREAKI EXISTING LOAD UTILIZE EXISTING SPARE BREA	NTE: NULT INTERRI NTERRUPTE JIPMENT GRC BREAKER W T BREAKER. HOLDING CIF ER IN EXISTII	UPTER TYPE CIRCU R TYPE CIRCUIT BR DUND FAULT PROTE TH 120 V COIL. RCUIT BREAKER IN NG PANELBOARD (V	IT BREAKER. EAKER ECTOR TYE CIRCUIT BREAK THE "ON" OR "OFF" POSITIC WHERE PANEL IS LOCATED BLE FROM DEMOLITION FOF	ER. DN. AS EXISTING) OF SAM R NEW LOAD	/E MANUFAC	TURER AN	ND A.I.C. RATING AS EXISTING.		9808039-2202 ALEKSANDAR RANKOVIC 12/11/2020
				 • • • -		,				
SF	PECIAL NOTE:)				PANEL SCHEDULES
AL AV DR SH	L EXISTING CIRCUITS AND NEW AILABLE BREAKERS SHOWN AR AWINGS AND FIELD OBSERVAT IALL TRACE AND CONFIRM ALL E	CIRCUITS TI RE BASED ON IONS. CONTF EXACT CIRCU	ED TO I RECORD RACTOR JITING.							

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		PAN	ELBOARD	SCHEDUL	E				PANEL	BOARD	SCHEDUL	E	
	PANEL NAM MOUNTING: SURFACE ENCLOSURE: NEMA 1 DOOR TYPE:	ME: L1B VOLTAG PHAS	E: 120/208 Wye E: 3 S: 4	LOCATION: MEI MAIN TYPE: MLO BUS RATING: 400 MCB PATING:	N'S RR 015-B FEED FROM: D SPD: - A NEUTRAL RATING: - ISOLATED GROUND:		PANEL NA MOUNTING: RECESSE ENCLOSURE: NEMA 1 DOOR TYPE	ME: H1B □	VOLTAGE: 480, PHASE: 3 WIDES: 4	277 Wye	LOCATION: ME MAIN TYPE: MLO BUS RATING: 400 MCB RATING:	N'S RR 015-B O I A	FEED FROM: SPD: - NEUTRAL RATING: - ISOLATED GROUND: -
-	EXISTING G	E) Min. A.I.C. RATIN	S: 4 G: FIELD VERIFY	BUS MATERIAL: -	ISOLATED GROUND: -		EXISTING	GE) N	IIII. A.I.C. RATING: FIEI		BUS MATERIAL: -		ISOLATED GROUND: -
KEYE NOTE 9	ED CIRCUIT DESCRIPTION CONV. OUTLET RM 19,15 CONV. OUTLET RM 14 N. WALL	Load CKT AMP POLE Type # 20 A 1 1 0 V/ 20 A 1 3	BRANCH BRE	EAKERS	KTLoad#TypePOLEAMPCIRCUIT DESCRIPTION2120 ACONV. OUTLET RM 17,154120 ACONV. OUTLET RM 17,16	KEYED NOTEKEY NOT9990	E CIRCUIT DESCRIPTION LTG HALL & 14 COVE LTG WEST 14 COVE	AMP POLE Lo 20 A 1 - 20 A 1 -	ad CKT pe # A - 1 0 VA - 3 -	BRANCH BREAL	KERS	KT Load # Type POLE AI 2 1 4 1 1	MP CIRCUIT DESCRIPTION KEYED NOTE
10	OVERHEAD COIL GRILL -EXISTING LOAD NOW SPARE- -EXISTING LOAD NOW SPARE-	20 A 1 M 5 20 A 1 7 0 V/ 20 A 1 9 4	A 0 VA 0 VA 0	1656 VA 0 VA 6 VA 1 1	<th<< td=""><td> 9 9 9 9 9</td><td>LTG CENTER 14 COVE LTG WEST OUT WALKWAY LTG WEST OUT WALKWAY</td><td>20 A 1 - 20 A 1 - 20 A 1 - 20 A 1 -</td><td>- 5 - 7 0 VA C - 9</td><td>VA 0 VA 0 VA</td><td>0 VA 6</td><td>1 2 3 3 0 1 20</td><td>0 A -EXISTING LOAD NOW SPARE- 0 A LIGHTING CONTROL PANEL 9</td></th<<>	9 9 9 9 9	LTG CENTER 14 COVE LTG WEST OUT WALKWAY LTG WEST OUT WALKWAY	20 A 1 - 20 A 1 - 20 A 1 - 20 A 1 -	- 5 - 7 0 VA C - 9	VA 0 VA 0 VA	0 VA 6	1 2 3 3 0 1 20	0 A -EXISTING LOAD NOW SPARE- 0 A LIGHTING CONTROL PANEL 9
9 9 9	FL. BOX 14 SOUTHWALL FL. BOX 14 SOUTHWALL FL. BOX 14 SOUTHWALL SENSOR REST RM 22	20 A 1 11 20 A 1 13 0 V/ 20 A 1 15 15 20 A 1 17 17	A 0 VA 0 VA 0	0 VA 0 VA 1 7 VA 1 0 VA 0 VA 1	2 1 20 A ATC 4 1 20 A PUMP P-5A, P-5B-22 6 1 20 A FL. DUCT 14 SOUTH 8 1 20 A FL DUCT 14 SOUTH	9 9 9 	-EXISTING LOAD NOW SPARE -SPACE ONLY- -SPACE ONLY- -SPACE ONLY-	- 20 A 1 - 	- 11 - 13 0 VA 0 - 15 - 17	VA 0 VA 0 VA	0 VA 0 VA 1 1 1 0 VA 0 VA 1	2 1 20 4 6	0 A -EXISTING LOAD NOW SPARE- SPACE ONLY SPACE ONLY
9 10 9 9	D LOCKERS - CERTIFIED TESTIN PLUG MOLD 14 SOUGH PLUG MOLD 14 SOUTH	20 A 1 17 20 A 1 E 19 180 V 20 A 1 21 20 A 20 A 1 23 23	A 0 VA 0 VA 0	0 VA 0 VA 1 2 2 2 VA 0 VA 2 0 VA 0 VA 2	0 1 20 A FL. DUCT 14 SOUTH 0 1 20 A FL. DUCT 14 SOUTH 2 1 20 A CONV. OUTLET RM 26,20 4 1 20 A CONV. OUTLET RM	9 9 9 9 	SPACE ONLY- SPACE ONLY- SPACE ONLY- SPACE ONLY-		- 19 0 VA 0 - 21 - 23	VA 0 VA 0 VA	0 VA 0 VA 2 2 0 VA 0 VA 2	0 20 22 44	
9 9 9	FL. DUCT 14 NORTH FL. DUCT 14 NORTH FL. DUCT 14 NORTH FL. DUCT 14 NORTH	20 A 1 25 0 V/ 20 A 1 27 20 A 1 29		VA 2 0 VA 0 VA 3	6120 A-EXISTING LOAD NOW SPARE-8120 A-EXISTING LOAD NOW SPARE-0120 A-EXISTING LOAD NOW SPARE-		-SPACE ONLY- -SPACE ONLY- -SPACE ONLY- -SPACE ONLY-	 	- 25 0 VA 0 - 27 - 29		2 2 2 0 VA 0 VA 3	-6 -8 -0	SPACE ONLY SPACE ONLY
9 9 	FL. DUCT 14 NORTH FL. DUCT 14 NORTH -EXISTING LOAD NOW SPARE- -SPACE ONLY-	20 A 1 31 0 V/ 20 A 1 33 20 A 20 A 1 35 35 37 0 V/	A 0 VA 0 VA 0 0 VA 0	VA 3 0 VA 0 VA 3 3	2 1 20 A -EXISTING LOAD NOW SPARE- 4 1 20 A -EXISTING LOAD NOW SPARE- 6 1 20 A -EXISTING LOAD NOW SPARE- 8 -SPACE ONLY-	 9	SPACE ONLY- SPACE ONLY- SPACE ONLY- PANEL H2B,H3B	 225 A 3	- 31 0 VA 0 - 33 - 35 - 37 0 VA 0	VA 0VA 0VA	0 VA 0 VA 3	12 14 16 18 3 40	SPACE ONLY- SPACE ONLY- 0 A VFD-2 15 HP 9
 9	-SPACE ONLY- -SPACE ONLY- BOOK LIFT 2 HP	39 41 20 A 3 43 0 ∨/		VA 4 0 VA 0 VA 4 4	0 -SPACE ONLY- 2 -SPACE ONLY- 4 3 30 A TVSS RM 22 6				- 39 - 41 ASE (VA) 0 VA	0 VA 0 VA 2529 VA	0 VA 0 VA 4 0 VA 0 VA 4	0	
 9 9	 CONV. OUTLET RM 28 CONV. OUTLET RM 40 WEST	45 47 20 A 1 49 0 V/ 20 A 1 51	A 0 VA 0 0 VA 0 0 VA 0	VA 0VA 0VA 4 0VA 0VA 5 VA 55	6 8 0 1 20 A -EXISTING LOAD NOW SPARE- 2 1 20 A -EXISTING LOAD NOW SPARE-				CONNECTED LOAD	DEMAND FACTOR			PANEL TOTALS
9	CONV. OUTLET RM 28a -EXISTING LOAD NOW SPARE- -EXISTING LOAD NOW SPARE- -EXISTING LOAD NOW SPARE-	20 A 1 53 20 A 1 55 0 V/ 20 A 1 57 20 A 1 59	A 0 VA 0 VA 0	0 VA 0 VA 5 5 VA 55 0 VA 720 VA 6	4 1 20 A -EXISTING LOAD NOW SPARE- 6 1 20 A -EXISTING LOAD NOW SPARE- 8 1 20 A -EXISTING LOAD NOW SPARE- 0 R 1 20 A RCPT - CERTIFIED TESTING 122	P R L 2 10 C	Panel Receptacle Lighting Continuous		0 VA 0 VA 2529 VA 0 VA	0.00% 0.00% 125.00% 0.00%	0 VA 0 VA 3162 VA	Total 25% OF LARGI	I Conn. Load: 2529 VA EST MOTOR: Est. Demand: 3162 VA
8 	RCPT - Space 153 -SPACE ONLY- -SPACE ONLY-	20 A 1 R 61 540 \/ 20 A 1 R 61 540 \/ 63	/A 0 VA 0 VA 0	VA 0VA 0VA 6	2 </td <td> E K</td> <td>Equipment Motor Kitchen</td> <td></td> <td>0 VA 0 VA 0 VA 0 VA</td> <td>0.00% 0.00% 0.00%</td> <td>0 VA 0 VA 0 VA 0 VA</td> <td>Total Co Total Est. Dem</td> <td>onn. Current: 3 A nand Current: 4 A</td>	E K	Equipment Motor Kitchen		0 VA 0 VA 0 VA 0 VA	0.00% 0.00% 0.00%	0 VA 0 VA 0 VA 0 VA	Total Co Total Est. Dem	onn. Current: 3 A nand Current: 4 A
8 8 8 8	RCP1 - CLASSROOM 117RCPT - CLASSROOM 117RCPT - HALL 125RCPT - LOCKERS 116	20 A 1 R 67 1260 20 A 1 R 69 1 20 A 1 R 71 1 20 A 1 R 73 540	VA 0 VA 1400 VA 0 1400 VA 0 /A 0 VA	VA 6 1080 VA 0 VA 7 1080 VA 0 VA 7	8 0 <td> 0 0</td> <td>Other</td> <td></td> <td>PANEL</td> <td>0.00%</td> <td></td> <td>E</td> <td></td>	0 0	Other		PANEL	0.00%		E	
 	-SPACE ONLY- -SPACE ONLY- -SPACE ONLY- SPACE ONLY-	75 77 79 0 V/	0 VA 0 0 VA 0 0 VA 0	VA 7 0 VA 0 VA 7 8	6 -SPACE ONLY- 8 -SPACE ONLY- 0 -SPACE ONLY- 2 SPACE ONLY-		PANEL NA MOUNTING: RECESSE	ME: EMH	1 VOLTAGE: 480,	/277 Wye	Location: Me Main Type: Mc	N'S RR 015-B B	FEED FROM: SPD: -
 	-SPACE ONLY- -SEC I - SPACE ONLY- -SEC I - SPACE ONLY-	81 83 85 0 V/ 87	A 0 VA 0 VA 0	VA 0VA 88 0VA 0VA 88 VA 88	2 4 6 3 225 A SEC I - PANEL L2B 8		ENCLOSURE: NEMA 1 DOOR TYPE: - (EXISTING	GE) N	PHASE: 3 WIRES: 4 lin. A.I.C. RATING: FIEI		BUS RATING: 225 MCB RATING: 175 BUS MATERIAL: -	A A	NEUTRAL RATING: - ISOLATED GROUND: -
 	-SEC I - SPACE ONLY- -SEC II SPACE ONLY- -SEC II SPACE ONLY- SEC II SPACE ONLY-	89 91 0 V/ 93	A 0 VA 0 VA 0	0 VA 0 VA 9 9 VA 9 0 VA 0 9	0 2SEC II SPACE ONLY- 4 SEC II SPACE ONLY- 6 SEC II SPACE ONLY-	KEY NO1 9	TE CIRCUIT DESCRIPTION	AMP POLE Ty 20 A 1	ad CKT pe # A - 1 0 VA C	BRANCH BREAK	C 4	KTLoad#TypePOLE2	MPCIRCUIT DESCRIPTIONKEYED NOTE
	TOTAL CONNECTED TOTAL CONNECTED CURF	D LOAD PER PHASE (VA) 2 RENT PER PHASE (AMPS)	2520 VA 1400 VA 22 A 12 A	3456 VA 30 A	6 SEC II SPACE ONLY-	9	LTG SOUTH LTG - LOWER LEVEL SPACE ONLY-	20 A 1	- 3 5 - 7 44 VA C - 9	0 VA 0 VA VA 0 VA 0 VA 0 VA	0 VA 6	4 - 6 - 7 - 8 - 0 -	-SPACE ONLY- -SPACE ONLY- -SPACE ONLY- -SPACE ONLY-
TYPE P R	E LOAD CLASSIFICATION Panel Receptacle	CONNECTED L 0 VA 4500 VA	OAD DEMAND FACTO 0.00% 100.00%	R ESTIMATED DEMAND 0 VA 4500 VA	PANEL TOTALS		- SPACE ONLY- - SPACE ONLY- - SPACE ONLY-	 	- 11 - 13 0 VA 0 - 15 - 15	VA 0VA 0VA	0 VA 0 VA 1 1 1	2 4 6	-SPACE ONLY- -SPACE ONLY- -SPACE ONLY-
L C E	Lighting Continuous Equipment	0 VA 0 VA 1220 VA	0.00% 0.00% 100.00%	0 VA 0 VA 1220 VA	25% OF LARGEST MOTOR:Total Est. Demand:7790 VATotal Conn. Current:20 A	9 	LTG EAST -EXISTING SPARE- BAD 	20 A 1 20 A 3 	- 17 - 19 0 VA C - 21 - 23	VA 0 VA 0 VA	0 VA 0 VA 1 2 2 0 VA 0 VA 2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 A LTG TUNNEL 9 0 A -EXISTING LOAD NOW SPARE- 0 A -EXISTING LOAD NOW SPARE- 0 A -EXISTING LOAD NOW SPARE-
M K O	Motor Kitchen Other	1656 VA 0 VA 0 VA	125.00% 0.00% 0.00%	2070 VA 0 VA 0 VA	Total Est. Demand Current: 22 A		-EXISTING LOAD NOW SPARE	- 20 A 3 -	- 25 0 VA 0 - 27 - 29	VA 0 VA 0 VA	0 VA 0 VA 3	1 2 26 3 20 28 20	0 A -EXISTING LOAD NOW SPARE-
						9 9	ELEVATOR 4A PANEL EMH2 EMH3	70 A 3 125 A 3	- 31 0 VA 0 - 33 - 35 - 37 0 VA 0	VA 0VA 0VA	33 33 0 VA 0 VA 33	12 3 20 14 16 18	0 A -EXISTING LOAD NOW SPARE-
							TOTAL CONNEC	 TED LOAD PER PH	- 39 - 41 ASE (VA) 44 VA		0 VA 0 VA 4 0 VA 0 VA 4	0 2	SPACE ONLY SPACE ONLY
						ТҮРІ	TOTAL CONNECTED CU	IRRENT PER PHAS	E (AMPS) 0 A	DEMAND FACTOR	ESTIMATED DEMAND		PANEL TOTALS
						P R	Panel Receptacle		0 VA 0 VA	0.00% 0.00% 125.00%	0 VA 0 VA 55 VA	Total 25% OF LARGI	I Conn. Load: 44 VA EST MOTOR:
						L	Lighting		44 VA	0.000/	0.1/0	T	
						L C E M K	Lighting Continuous Equipment Motor Kitchen		0 VA 0 VA 0 VA 0 VA 0 VA	0.00% 0.00% 0.00% 0.00%	0 VA 0 VA 0 VA 0 VA	Total E Total Co Total Est. Dem	onn. Current: 0 A nand Current: 0 A
						L C E M K O			0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	0.00% 0.00% 0.00% 0.00%	0 VA 0 VA 0 VA 0 VA 0 VA	Total E Total Co Total Est. Dem	onn. Current: 0 A nand Current: 0 A
						L C E M K O PA 1. 2. 3. 4. 5. 6.		OTE: AULT INTERRUPT INTERRUPTER TY UIPMENT GROUNI T BREAKER WITH JIT BREAKER. R HOLDING CIRCU	0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	0.00% 0.00% 0.00% 0.00% AKER. TYE CIRCUIT BREAKEI	0 VA 0 VA 0 VA 0 VA 0 VA	Total E Total Co Total Est. Dem	onn. Current: 0 A nand Current: 0 A
						L C E M K O PA 1. 2. 3. 4. 5. 6. 7. 8. 9. 10		OTE: AULT INTERRUPT INTERRUPTER TY UIPMENT GROUNI T BREAKER WITH JIT BREAKER. R HOLDING CIRCU KER IN EXISTING F OR NEW LOAD	0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	0.00% 0.00% 0.00% 0.00% AKER. TYE CIRCUIT BREAKEI N" OR "OFF" POSITION PANEL IS LOCATED A	0 VA 0 VA 0 VA 0 VA 0 VA R. S EXISTING) OF SAME M	Total E Total Co Total Est. Dem	ND A.I.C. RATING AS EXISTING.
						L C E M K O PA 1. 2. 3. 4. 5. 6. 7. 8. 9. 10	Lighting Continuous Equipment Motor Kitchen Other NELBOARD SCHEDULE KEYED N PROVIDE CLASS A GROUND F PROVIDE ARC FAULT CIRCUIT PROVIDE 30 MILLIAMPERE EQ PROVIDE SHUNT TRIP CIRCUI PROVIDE HACR RATED CIRCU PROVIDE HANDLE CLAMP FOF BREAKER HANDLE TIES. PROVIDE NEW CIRCUIT BREA EXISTING LOAD UTILIZE EXISTING BREAKER F	OTE: AULT INTERRUPTI INTERRUPTER TY UIPMENT GROUNI T BREAKER WITH JIT BREAKER. R HOLDING CIRCU KER IN EXISTING F OR NEW LOAD	0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	0.00% 0.00% 0.00% 0.00% AKER. TYE CIRCUIT BREAKEI N" OR "OFF" POSITION PANEL IS LOCATED A	0 VA 0 VA 0 VA 0 VA 0 VA 3 0 VA 3 EXISTING) OF SAME M	Total E Total Co Total Est. Dem	ND A.I.C. RATING AS EXISTING.
						L C E M K O O PA 1. 2. 3. 4. 5. 6. 7. 8. 9. 10 V O V O V O V O V O V O V O V O V O V	Lighting Continuous Equipment Motor Kitchen Other NELBOARD SCHEDULE KEYED N PROVIDE CLASS A GROUND F PROVIDE ARC FAULT CIRCUIT PROVIDE 30 MILLIAMPERE EQ PROVIDE SHUNT TRIP CIRCUI PROVIDE HACR RATED CIRCU PROVIDE HANDLE CLAMP FOF BREAKER HANDLE TIES. PROVIDE NEW CIRCUIT BREA EXISTING LOAD UTILIZE EXISTING BREAKER F	OTE: AULT INTERRUPTI INTERRUPTER TY UIPMENT GROUNI T BREAKER WITH JIT BREAKER. R HOLDING CIRCU KER IN EXISTING F OR NEW LOAD	0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 10 VA 0 VA	0.00% 0.00% 0.00% 0.00% AKER. TYE CIRCUIT BREAKEI N" OR "OFF" POSITION PANEL IS LOCATED A ANEL IS LOCATED A	O VA O VA O VA O VA O VA S EXISTING) OF SAME M END H1B		ND A.I.C. RATING AS EXISTING.

		PANE	LBOARD	SCHEDUL	E				PAN		SCHEDUL	E		
	PANEL NAME: L18 MOUNTING: SURFACE ENCLOSURE: NEMA 1	B VOLTAGE: 7 PHASE: 3	120/208 Wye 3	LOCATION: MEI MAIN TYPE: MLC BUS RATING: 400	N'S RR 015-B) A	FEED FROM: SPD: - NEUTRAL RATING: -		PANEL NAME: H' MOUNTING: RECESSED ENCLOSURE: NEMA 1	1B VOLT. PH	AGE: 480/277 Wye ASE: 3	LOCATION: ME MAIN TYPE: ML BUS RATING: 40	N'S RR 015-B O A	FEED FROM: SPD: - NEUTRAL RATING: -	
	DOOR TYPE: - (EXISTING GE)	WIRES: 4 Min. A.I.C. RATING: F	4 FIELD VERIFY	MCB RATING: - BUS MATERIAL: -		ISOLATED GROUND: -		DOOR TYPE: - (EXISTING GE)	WI Min. A.I.C. RAT	RES: 4 TING: FIELD VERIFY	MCB RATING: - BUS MATERIAL: -		ISOLATED GROUND: -	
KEYED		Load CKT	BRANCH BREA	KERS	(T Load	KEYEL) KEYE		Load CKT	BRANCH BREA	KERS c	KT Load	KEYED	ARCH
NOTE 9	CIRCUIT DESCRIPTIONAMPPOLECONV. OUTLET RM 19,1520 A1	Type # # 1 0 VA	A B	C #	Type POLE AN 2 1 20	IPCIRCUIT DESCRIPTIONNOTEACONV. OUTLET RM 17,159	NOTE 9	CIRCUIT DESCRIPTIONAMPPOLLTG HALL & 14 COVE20 A1	E Type #	A B	С	Type POLE 2	AMP CIRCUIT DESCRIPTION NOTE	
9 10	CONV. OUTLET RM 14 N. WALL20 A1OVERHEAD COIL GRILL20 A1	3 M 5	0 VA 0 VA	A 4 4 1656 VA 0 VA 6	1 20 ;	A CONV. OUTLET RM 17,19 HALL 9 SPACE ONLY	9 9	LTG WEST 14 COVE 20 A 1 LTG CENTER 14 COVE 20 A 1	3 5	0 VA 2529 V	/A 0 VA	4 L 1 6	20 A LTG - LOWER LEVEL	ph: (801
	EXISTING LOAD NOW SPARE- 20 A 1	7 0 VA		8	<u> </u>	A CONV. OUTLET RM 14 S. WALL 9	9	LTG WEST OUT WALKWAY 20 A 1	7 0	0 VA 0 VA		3 1 0 1	20 A -EXISTING LOAD NOW SPARE-	jrcade
9	FL. BOX 14 SOUTHWALL 20 A 1 FL. BOX 14 SOUTHWALL 20 A 1	11 12 0)/A		0 VA 0 VA 1	2 1 20	A ATC 9	9	-EXISTING LOAD NOW SPARE- 20 A 1	11		0 VA 0 VA	2 1	20 A -EXISTING LOAD NOW SPARE-	
9	FL. BOX 14 SOUTHWALL20 A1FL. BOX 14 SOUTHWALL20 A1	13 0 VA 15	0 VA 0 VA	A 11	4 1 20 6 1 20	A PUMP P-5A, P-5B-22 9 A FL. DUCT 14 SOUTH 9		-SPACE ONLY -SPACE ONLY	13 C 15	0 VA 0 VA 0 VA 0 VA		4 6		
9 10	SENSOR REST RM 2220 A1LOCKERS - CERTIFIED TESTIN20 A1	17 E 19 180 VA	0 VA	0 VA 0 VA 1	8 1 20 0 1 20	A FL. DUCT 14 SOUTH 9 A FL. DUCT 14 SOUTH 9		-SPACE ONLY- -SPACE ONLY-	17 19 0) VA 0 VA	0 VA 0 VA	8	-SPACE ONLY- -SPACE ONLY-	
9	PLUG MOLD 14 SOUGH 20 A 1	21	0 VA 0 VA		2 1 20	A CONV. OUTLET RM 26,20 9		-SPACE ONLY	21	0 VA 0 VA		2	SPACE ONLY	
9	FL. DUCT 14 NORTH 20 A 1 FL. DUCT 14 NORTH 20 A 1	25 0 VA	0 VA		6 1 20	A -EXISTING LOAD NOW SPARE-	-	-SPACE ONLY	25 C	OVA OVA		6	SPACE ONLY	
9 9	FL. DUCT 14 NORTH 20 A 1 FL. DUCT 14 NORTH 20 A 1	27 29		0 VA 0 VA 3	8 1 20 0 1 20	A -EXISTING LOAD NOW SPARE-		-SPACE ONLY	27 29		0 VA 0 VA	8 0		
9 9	FL. DUCT 14 NORTH 20 A 1 FL. DUCT 14 NORTH 20 A 1	31 0 VA 33	0 VA 0 VA	33 A 34	2 1 20 4 1 20	A -EXISTING LOAD NOW SPARE- A -EXISTING LOAD NOW SPARE-		-SPACE ONLY- -SPACE ONLY-	31 C	0 VA 0 VA 0 VA 0 VA		2 4	-SPACE ONLY- -SPACE ONLY-	
	EXISTING LOAD NOW SPARE- 20 A 1	35 37 0.VA	0.VA	0 VA 0 VA 3	6 1 20 8	A -EXISTING LOAD NOW SPARE-	 9	-SPACE ONLY PANEL H2B H3B 225 A 3	35		0 VA 0 VA	6 8 3	SPACE ONLY 40 A VED-2 15 HP 9	
	-SPACE ONLY	39	0 VA 0 VA		0	SPACE ONLY			39			0		
 9	-SPACE UNLY BOOK LIFT 2 HP 20 A 3	41 43 0 VA	0 VA	U VA 0 VA 4	2 4 3 30		_	TOTAL CONNECTED LOAD PE	41	0 VA 2529 VA	0 VA 0 VA 0 VA 0 VA	2		
		45 47	0 VA 0 VA	0 VA 0 VA 4	6 8		$\left\{ \right\}$	TOTAL CONNECTED CURRENT PER F	PHASE (AMPS)	0 A 9 A	0 A			
9	CONV. OUTLET RM 28 20 A 1	49 0 VA		5	0 1 20	A -EXISTING LOAD NOW SPARE-			CONNECTER				PANEL ΤΟΤΑΙ S	
9	CONV. OUTLET RM 28a 20 A 1 EXISTING LOAD NOW CRAPT 20 A 1	53		0 VA 0 VA 5	4 1 20	A -EXISTING LOAD NOW SPARE-		Panel Becontrols	0 VA					
	EXISTING LOAD NOW SPARE- 20 A 1 EXISTING LOAD NOW SPARE- 20 A 1	55 0 VA 57	0 VA 0 VA	50 A 51	o 1 20 8 1 20	A -EXISTING LOAD NOW SPARE-		Receptacle	0 VA 2529 V	0.00% A 125.00%	0 VA 3162 VA	Tot 25% OF LAR	Conn. Load: 2529 VA CGEST MOTOR:	
8	EXISTING LOAD NOW SPARE-20 A1RCPT - Space 15320 A1	59 R 61 540 VA	0 VA	0 VA 720 VA 6	0 R 1 20 2	A RCPT - CERTIFIED TESTING 122 10 - -SPACE ONLY-	C E	Continuous Equipment	0 VA 0 VA	0.00%	0 VA 0 VA	Tota Total	Al Est. Demand: 3162 VA	
	-SPACE ONLY	63	0 VA 0 VA		4	SPACE ONLY	M	Motor Kitchen	0 VA	0.00%	0 VA	Total Est. De	emand Current: 4 A	
8	CPT - CLASSROOM 117 20 A 1	R 67 1260 VA	0 VA					Other	0 VA	0.00%	0 VA			
8 8	RCPT - CLASSROOM 117 20 A 1 RCPT - HALL 125 20 A 1	к 69 R 71	1400 VA 0 VA	1080 VA 0 VA 7	U 2		1 m					_	I	
8	RCPT - LOCKERS 116 20 A 1 -SPACE ONLY-	R 73 540 VA 75	0 VA 0 VA	7	4 6	- SPACE ONLY - SPACE ONLY	┤		PAN		SCHEDUL	E		
	-SPACE ONLY	77 79 0.\/A		0 VA 0 VA 7	8 0	SPACE ONLY		PANEL NAME: EI	MH1		LOCATION: ME	N'S RR 015-B	FEED FROM:	
		81	0 VA 0 VA		 2			MOUNTING: RECESSED ENCLOSURE: NEMA 1	VOLT. PH	AGE: 480/277 Wye ASE: 3	MAIN TYPE: MC BUS RATING: 22	В A	SPD: - NEUTRAL RATING: -	
·	-SPACE UNLY -SEC I - SPACE ONLY	83 85 0 VA	0 VA	U VA 0 VA 8	+ 6 3 22			DOOR TYPE: - (EXISTING GF)	WI Min. A.I.C. RAT	RES: 4 FING: FIELD VERIFY	MCB RATING: 17: BUS MATERIAL: -	A	ISOLATED GROUND: -	
	-SEC I - SPACE ONLY -SEC I - SPACE ONLY	87 89	0 VA 0 VA	0 VA 0 VA 9	B D			(C)		BRANCH BREA	KERS	·····		
·	-SEC II SPACE ONLY	91 0 VA		9	2	SEC II SPACE ONLY	KEYE NOTE	CIRCUIT DESCRIPTION AMP POL	Load CKT E Type #	A B	C C	KT Load # Type POLE	AMP CIRCUIT DESCRIPTION KEYED NOTE	
	-SEC II SPACE ONLY	95		0 VA 0 VA 9	6	SEC II SPACE ONLY	9	LTG WEST 20 A 1 LTG SOUTH 20 A 1	1 C	0 VA 0 VA 0 VA 0 VA		2 4	-SPACE ONLY- -SPACE ONLY-	
	IOTAL CONNECTED LOAD PER TOTAL CONNECTED CURRENT PER PH	PHASE (VA) 2520 ASE (AMPS) 22	0 VA 1400 VA 2 A 12 A	3456 VA 30 A				LTG-LOWERLEVEL 20 A 1			0 VA	<u> </u>	SPACE ONLY	
								-SPACE ONLY	9	0 VA 0 VA		0	SPACE ONLY	
TYPE P	LOAD CLASSIFICATION Panel		D DEMAND FACTOR	ESTIMATED DEMAND		PANEL TOTALS	-	-SPACE UNLY	11 13 0	0 VA 0 VA		2 4	SPACE ONLY SPACE ONLY	円
R	Receptacle	4500 VA	100.00%	4500 VA	Total	Conn. Load: 7376 VA	9	-SPACE ONLY- LTG EAST 20 A 1	15 17	0 VA 0 VA	0 VA 0 VA	6 8 1	-SPACE ONLY- 20 A LTG TUNNEL 9	
L C	Continuous	0 VA 0 VA	0.00%	0 VA 0 VA	∠ຈ% UF LARGE Total E	St. Demand: 7790 VA		-EXISTING SPARE- BAD 20 A 3	19 C	0 VA 0 VA 0 V/A		0 1	20 A -EXISTING LOAD NOW SPARE-	
E M	Equipment	1220 VA 1656 VA	100.00% 125.00%	1220 VA 2070 VA	Total Co Total Est. Dema	and Current: 20 A			- 23		0 VA 0 VA	4 1	20 A -EXISTING LOAD NOW SPARE-	
K	Kitchen Other	0 VA	0.00%	0 VA				-EAISTING LUAD NUW SPARE- 20 A 3 	25 C	0 VA 0 VA 0 VA		0 3 8	20 A -EXISTING LOAD NOW SPARE-	<u>v</u>
.			0.0070	V VA		I	- <u>-</u> 9	ELEVATOR 4A 70 A 3	29 31 0	0 VA 0 VA	0 VA 0 VA	0 2 3	20 A -EXISTING LOAD NOW SPARE-	
								 	33	0 VA 0 VA		4 6		
							9	PANEL EMH2, EMH3 125 A 3	37 0	OVA OVA		8	SPACE ONLY	ŭ
								 	39 41	0 VA 0 VA	0 VA 0 VA	2 2	-SPACE ONLY- -SPACE ONLY-	
								TOTAL CONNECTED LOAD PE TOTAL CONNECTED CURRENT PER F	R PHASE (VA) PHASE (AMPS)	44 VA 0 VA 0 A 0 A	0 VA 0 A			
									/	I				PROJECT
							TYPE		CONNECTE	D LOAD DEMAND FACTOR	ESTIMATED DEMAND		PANEL TOTALS	
							P R	Panel Receptacle	0 VA 0 VA	0.00%	0 VA	Tot	tal Conn. Load: 44 VA	
							L	Lighting Continuous	44 VA 0 VA	125.00% 0.00%	55 VA 0 VA	25% OF LAR Tota	BEST MOTOR: A S5 VA	
							E	Equipment Motor	0 VA	0.00%	0 VA	Total Con	Conn. Current: 0 A	
							K	Kitchen	0 VA	0.00%	0 VA			
							0	Other	0 VA	0.00%	0 VA			
							PAN	ELBOARD SCHEDULE KEYED NOTE:						
							1.	PROVIDE CLASS A GROUND FAULT INTERF		CUIT BREAKER.				USSSIO
							2. 3.	PROVIDE AND FAULT CIRCUIT INTERRUPTE PROVIDE 30 MILLIAMPERE EQUIPMENT GR PROVIDE SHI INT TRIP CIRCUIT BREAKED M		TECTOR TYE CIRCUIT BREAKE	R.			9808
							4. 5. 6	PROVIDE HACR RATED CIRCUIT BREAKER. PROVIDE HANDI F CI AMP FOR HOLDING CI	RCUIT BREAKER	IN THE "ON" OR "OFF" POSITION	۹.			ALEI
							7. 8	BREAKER HANDLE TIES. PROVIDE NEW CIRCUIT BREAKER IN FXIST		WHERE PANEL IS LOCATED	·· \S EXISTING) OF SAME N	ANUFACTURER	AND A.I.C. RATING AS EXISTING	ABand
							9. 10	EXISTING LOAD UTILIZE EXISTING BREAKER FOR NFW LOA						- AME
							<u> </u>	C.LE ENGTING BREAKENT ON NEW LUA						12
										PANEL LEG	END			PA
						SPI	ECIAL NO	DTE:						SCHI
						ALL	EXISTING C	IRCUITS AND NEW CIRCUITS TIED TO AKERS SHOWN ARE BASED ON RECORD		L1B	H1B			
						DRA SHA	WINGS AND) FIELD OBSERVATIONS. CONTRACTOR ND CONFIRM ALL EXACT CIRCUITING.		FMH1				
						CON REQ	I RACTOR	DHALL REDLINE AS-BUILT CIRCUITING AS PECIFICAITONS.				_		
														1 1

				PA	NEL	BOA	RD S	CHEE	DULE						RC	
	PANEL NAM MOUNTING: RECESSED ENCLOSURE: NEMA 1 DOOR TYPE: - (EXISTING G	ME: H	11B	VOL PI M	TAGE: 480 HASE: 3 /IRES: 4	/277 Wye		LOCAT MAIN T BUS RAT MCB RAT BUS MATER	'ION: MEN' YPE: MLO 'ING: 400 A 'ING: - RIAL	S RR 015	-В	FEED FROM: SPD: - NEUTRAL RATING: - ISOLATED GROUND: -				
)	IVIIII	. A.I.C. NA		BRANC	H BREAK	ERS	<ial< th=""><th></th><th></th><th></th><th></th><th>AR</th><th>CHITEC</th><th>TS</th></ial<>					AR	CHITEC	TS
EYED									СКТ	Load			KEYED	$ \frac{\Lambda \Lambda}{577}$	South 200 E	<u>I U</u> I Det
NOTE 9	LTG HALL & 14 COVE	20 A	DLE Type	• #	A 0 VA		B	C	#	Туре	POLE AMP		N NOTE		C Litab 84	111
9	LTG WEST 14 COVE	20 A	1	3	0 1/1	0 V.	A 2529 VA		4	L	1 20 A	LTG - LOWER LEVEL			(201) 522 2 ¹	100
9	LTG CENTER 14 COVE	20 A	1	5				0 VA	6					pn. ((001) 555-2	100
9	LTG WEST OUT WALKWAY	20 A	1	7	0 VA () VA			8		1 20 A	-EXISTING LOAD NOW SPA	RE-	Jrca	idesign.co	Sm
9	-EXISTING LOAD NOW SPARE-	20 A	<u> </u>	9		0 0	A UVA	0 VA 0	VA 12		1 20 A	-EXISTING LOAD NOW SPA	RE-			
	-SPACE ONLY-			13	0 VA 0) VA			14			-SPACE ONLY-				
	-SPACE ONLY-			15		0 V.	A 0 VA		16			-SPACE ONLY-				
	-SPACE ONLY-			17	0.) (A)			0 VA 0	VA 18			-SPACE ONLY-				
				19	0 VA (20			-SPACE ONLY-				
	-SPACE ONLY-			23				0 VA 0	VA 24			-SPACE ONLY-				
	-SPACE ONLY-			25	0 VA 0) VA			26			-SPACE ONLY-				
	-SPACE ONLY-			27		0 V.	A 0 VA		28			-SPACE ONLY-				
	-SPACE ONLY-			29	0.1/0			0 VA 0	VA 30			-SPACE ONLY-				
	-SPACE ONLY-			33		0 V	A 0VA		34			-SPACE ONLY-				
	-SPACE ONLY-			35				0 VA 0	VA 36			-SPACE ONLY-				
9	PANEL H2B,H3B	225 A 🗧	3	37	0 VA 0) VA			38		3 40 A	VFD-2 15 HP	9			
				39		0 V.	A 0 VA	0.\/A 0	40							
	TOTAL CONNECTE		PER PHAS	SE (VA)	0 VA		2529 VA		VA 42							
	TOTAL CONNECTED CURF	RENT PER	PHASE (0 A		9 A	0 A								
						DEMANT	EACTOR	COTIMATES -								
• ⊏ E	Panel						0%					FANEL IUIALS				
R	Receptacle			0 V/	4	0.0	0%	0 VA			Total Co	onn. Load: 2529 VA				
L	Lighting			2529	VA	125.	00%	3162 V	A	25% O	F LARGES	T MOTOR:				
C	Continuous			0 V/	۹ ۱	0.0	0%	0 VA			Total Est	. Demand: 3162 VA				
M	Equipment				4	0.0	0%	0 VA		Total	Total Coni	n. Current: 3 A				
K	Kitchen			0 V/	<u>م</u>	0.0	0%	0 VA		Total I	Lot. Deman					
0	Other			0 V/	4	0.0	0%	0 VA								
	PANEL NAM MOUNTING: RECESSED ENCLOSURE: NEMA 1 DOOR TYPE: -	ME: E	EMH1	VOL ⁻ W	TAGE: 480 HASE: 3 //RES: 4	BOA	RD S	LOCAT MAIN T BUS RAT MCB RAT	TION: MEN' YPE: MCB ING: 225 A ING: 175 A	S RR 015	-В	FEED FROM: SPD: - NEUTRAL RATING: - ISOLATED GROUND: -				
	(EXISTING G	iE)	Min	. A.I.C. RA	TING: FIE				RIAL: -							
EYED			Load			DRANC			СКІ	Load			KEYED			
OTE	CIRCUIT DESCRIPTION	AMP PC	DLE Type	#	Α		В	С	#	Type I	POLE AMP	CIRCUIT DESCRIPTIO	N NOTE			
9	LTG WEST	20 A	<u>1</u>	1	0 VA 0) VA			2			-SPACE ONLY-			, _	
9		20 A		5		0 0.	A UVA	0	VA 6			-SPACE ONLY-			Ì	
	LTG - LOWER LEVEL	20 A	1 L	7	44 VA 🛛 🕻) VA			8			-SPACE ONLY-		⊢		
	-SPACE ONLY-			9		0 V.	A 0 VA		10			-SPACE ONLY-			,	
	-SPACE ONLY-			11				0 VA 0	VA 12			-SPACE ONLY-		Ш	l	
	-SPACE ONLY-			15		0 V.	A 0VA		14			-SPACE ONLY-				
9	LTG EAST	20 A	1	17				0 VA 0	VA 18		1 20 A	LTG TUNNEL	9		, X	
	-EXISTING SPARE- BAD	20 A 3	3	19	0 VA () VA			20		1 20 A	-EXISTING LOAD NOW SPA	RE-	$ \not\subseteq$, 533 y	
				21		0 0.	A UVA	0 VA 0	VA 24		1 20 A	-EXISTING LOAD NOW SPA	RE-		: 01	
	-EXISTING LOAD NOW SPARE-	20 A 🗧	3	25	0 VA 0) VA			26		3 20 A	-EXISTING LOAD NOW SPA	RE-		် နို့လို	
				27		0 V.	A 0 VA		28						i ječ	
				29				0 VA 0	VA 30					<u> </u>		
9	ELEVATOR 4A	70 A ,	3	31	UVA (32		3 20 A	-EXISTING LOAD NOW SPA	.RE-		' 두 의	
				35				0 VA 0	VA 36							
9	PANEL EMH2, EMH3	125 A 🗧	3	37	0 VA 0) VA			38			-SPACE ONLY-				
				39		0 V.	A 0 VA		40			-SPACE ONLY-				•
	TOTAL CONNECTE		 PER PHAS	41 SE (VA)			0.VA		VA 42			-SPACE UNLY-		V	16 (Ta	
	TOTAL CONNECTED CURP	RENT PER	PHASE (0 A		0 A	0 A								
														PRO.	JECT #: 200	29
YPF	LOAD CLASSIFICATION			ONNECTE		DEMAND	FACTOR					PANEL TOTALS				
	Panel			0 V/	4	0.0	0%	0 VA							BID SET 2/17/2021	
R	Receptacle			0 V/	4	0.0	0%	0 VA			Total Co	onn. Load: 44 VA				
L	Lighting			44 V	A	125.	00%	55 VA		25% O	F LARGES	T MOTOR:				•
E	Equipment			0 V/	<u>-</u> A	0.0	0%	0 VA			Total Con	n. Current: 0 A				
M	Motor			0 V/	<u>,</u>	0.0	0%	0 VA		Total I	Est. Deman	d Current: 0 A				
Κ	Kitchen			0 V/	4	0.0	0%	0 VA								
0	Other			0 V	4	0.0	0%	0 VA								
PANEI	BOARD SCHEDULE KEYED NOT	<u>[E:</u>													Milling	
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	PROVIDE CLASS A GROUND FAU PROVIDE ARC FAULT CIRCUIT IN PROVIDE 30 MILLIAMPERE EQUI PROVIDE SHUNT TRIP CIRCUIT E PROVIDE HACR RATED CIRCUIT PROVIDE HANDLE CLAMP FOR H BREAKER HANDLE TIES. PROVIDE NEW CIRCUIT BREAKE EXISTING LOAD UTILIZE EXISTING BREAKER FOF	JLT INTER NTERRUPT PMENT GI BREAKER BREAKEF HOLDING (ER IN EXIS R NEW LO	RRUPTER TER TYPE ROUND F WITH 120 R. CIRCUIT I STING PAN	TYPE CIF E CIRCUIT FAULT PR O V COIL. BREAKER	CUIT BREAKER OTECTOR IN THE "O D (WHERE	AKER. TYE CIRCUI N" OR "OFF" PANEL IS L	T BREAKER. " POSITION. OCATED AS	EXISTING) OF	SAME MA	NUFACTI	URER AND	A.I.C. RATING AS EXISTING		and	9808039-2202 ALEKSANDAR RANKOVIC	and
. NO	<u>re:</u>				Р	ANEL	LEGE	ND		1						 S
	RCUITS AND NEW CIRCUITS TIEE	то					.1B	H1	B							-
BREA	KERS SHOWN ARE BASED ON R						- •			-						
CE AN	ID CONFIRM ALL EXACT CIRCUIT	TING.					MH1					ENVI				
UK SH IN SPI	TALL REDLINE AS-BUIL [CIRCUI] ECIFICAITONS.	I ING AS								-						
												240 E. MORRIS	AVE. SUITE 200			

					PA		BOA	RD	SC	HEDU	ILE							RC/
	PANEL NA MOUNTING: RECESSED ENCLOSURE: NEMA 1 DOOR TYPE: -		H1	B	V	OLTAGE: 480 PHASE: 3 WIRES: 4	/277 Wye			LOCATION: MAIN TYPE: BUS RATING: MCB RATING:	MEN'S MLO 400 A -	5 RR 01	15-B		FEED FROM: SPD: - NEUTRAL RATING: - ISOLATED GROUND: -			
	(EXISTING)	GE)		WIIN	. A.I.C.	RATING: FIEI	BRAN	CH BRE		S	-						AR	CHITEC
KEYED NOTE 9	D CIRCUIT DESCRIPTION LTG HALL & 14 COVE	AMP 20 A	POLE	Load Type 	CKT # 1	A 0 VA		В		С	CKT #	Load Type	POLE	E AMP	CIRCUIT DESCRIPTION	KEYED NOTE	577	South 200 E
9	LTG WEST 14 COVE	20 A	1		3		0	VA 252	9 VA		4	L	1	20 A	LTG - LOWER LEVEL		ph: ((801) 533-21
9	LTG WEST OUT WALKWAY	20 A 20 A	1		7	0 VA 0) VA				8		1	20 A	-EXISTING LOAD NOW SPARE-	,	jrca	design.co
9 9	LTG WEST OUT WALKWAY -EXISTING LOAD NOW SPARE-	20 A 20 A	1		9		0	VA 0'	VA 0	VA 0VA	10 12		1	20 A 20 A	LIGHTING CONTROL PANEL -EXISTING LOAD NOW SPARE-	9		
	-SPACE ONLY-				13	0 VA C) VA)//		14				-SPACE ONLY-			
	-SPACE ONLY-				15		0	VA U	0	VA 0VA	18				-SPACE ONLY-			
	-SPACE ONLY- -SPACE ONLY-				19 21	0 VA 0) VA (VA 0'	VA		20 22				-SPACE ONLY- -SPACE ONLY-			
	-SPACE ONLY-				23				0	A 0 VA	24				-SPACE ONLY-			
	-SPACE ONLY-				25		0	VA 0	VA		20				-SPACE ONLY-			
	-SPACE ONLY- -SPACE ONLY-				29 31	0 VA 0) VA		0	VA 0VA	30 32				-SPACE ONLY- -SPACE ONLY-			
	-SPACE ONLY-				33		0	VA 0	VA		34				-SPACE ONLY-			
9	PANEL H2B,H3B	 225 A			35	0 VA 0) VA				36		3	 40 A	VFD-2 15 HP	9		
					39 41		0	VA 0	VA 0	VA 0VA	40							
) 0 VA		2529 VA 9 A		0 VA	_							
										077								
TYPE	LOAD CLASSIFICATION			C	ONNE	CTED LOAD	DEMAN	D FACTOR	R EST	IMATED DEMA	ND				PANEL TOTALS			
P R	Panel Receptacle				(D VA D VA	0	.00% .00%		0 VA 0 VA			т	otal Co	onn. Load: 2529 VA			
L	Lighting				25	29 VA	12	5.00% .00%		3162 VA		25%	OF LA		T MOTOR:			
E	Equipment				() VA	0	.00%		0 VA		-	Tota		n. Current: 3 A			
M K	Motor Kitchen				() VA) VA	0	.00% .00%		0 VA 0 VA		Tota	l Est. I	Deman	d Current: 4 A			
0	Other				() VA	0	.00%		0 VA								
					P/		ROA	RD	SC	HEDI								
	PANEL NA MOUNTING: RECESSED	ME:	EN	/H1	v	OLTAGE: 480	/277 Wye			LOCATION: MAIN TYPE:	MEN'S MCB	RR 0 ⁷	15-B		FEED FROM: SPD: -			
	DOOR TYPE: - (EXISTING)	GE)		Min	. A.I.C.	WIRES: 4 RATING: FIE	LD VERIFY		В	MCB RATING: US MATERIAL:	225 A 175 A -				ISOLATED GROUND: -			
KEYE				Load	СКТ		BRAN	CH BRE		8	СКТ	Load	1			KEYED		
	CIRCUIT DESCRIPTION	20 A	POLE	Туре	• #	Α		В		С	#	Туре	POLE			NOTE		
9	LTG SOUTH	20 A	1		3		0	VA 0	VA		4				-SPACE ONLY-			
	LTG - LOWER LEVEL	20 A	1	L	5	44 VA 0) VA			0 VA	6 8				-SPACE ONLY- -SPACE ONLY-			l
	-SPACE ONLY- -SPACE ONLY-				9 11		0	VA 0	VA		10 12				-SPACE ONLY- -SPACE ONLY-			
	-SPACE ONLY-				13	0 VA () VA				14				-SPACE ONLY-			
9	LTG EAST	 20 A	 1		15		0	VA 0	VA 0	VA 0VA	16 18			 20 A	LTG TUNNEL	9		Rd
	-EXISTING SPARE- BAD	20 A	3		19 21	0 VA 0	OVA	VA 0'	VA		20 22		1	20 A	-EXISTING LOAD NOW SPARE-			53 od -
					23				0	VA 0VA	24		1	20 A	-EXISTING LOAD NOW SPARE-			841 841
	-EXISTING LOAD NOW SPARE-	20 A	3		25	0 VA (0 VA 0	VA 0	VA		26 28		3	20 A	-EXISTING LOAD NOW SPARE-		ဟ	ied JT 8
 9		 70 A	 3		29 31				0	VA 0VA	30		 3	 20 A	 -EXISTING LOAD NOW SPARE-		ļμ	ר א ו
					33		0	VA 0	VA		34							outh ville
 9	 PANEL EMH2, EMH3	 125 A			35 37	0 VA 0) VA	_	0	VA 0VA	36 38				 -SPACE ONLY-			SC SC
					39 41		0	VA 0	VA		40				-SPACE ONLY-			aylc
) 44 VA		0 VA									ဟ	9 4 L
			2		, un 0,												PROJ	JECT #: 200
TYPE	LOAD CLASSIFICATION			C	ONNE	CTED LOAD	DEMAN	D FACTOR	R EST	IMATED DEMA	ND				PANEL TOTALS			BID SFT
P R	Panel Receptacle				(AV (0	.00% .00%		0 VA 0 VA			Т	otal Co	onn. Load: 44 VA]		2/17/2021
L	Lighting				4	4 VA	12	5.00%		55 VA		25%	OF LA		T MOTOR:			NE REVISION
E	Equipment				() VA	0	.00 %		0 VA 0 VA			Tota	al Conr	n. Current: 0 A			
M K	Motor Kitchen				(AV OVA	0	.00%		0 VA 0 VA		Tota	l Est. I	Deman	d Current: 0 A			
0	Other				() VA	0	.00%		0 VA								
PANE	ELBOARD SCHEDULE KEYED NO)TE:																
1.	PROVIDE CLASS A GROUND FA						AKER.										133	ESSIONAL ENCL
2. 3.	PROVIDE ARC FAGET CIRCUIT					PROTECTOR	TYE CIRC	JIT BREAK	KER.								PRO	9808039-2202
5.	PROVIDE HACR RATED CIRCUI		KER.		BREAK	(ER IN THE "O		F" POSITI	ON								San In	ALEKSANDAR RANKOVIC
7. 8	BREAKER HANDLE TIES. PROVIDE NEW CIRCUIT BREAK						PANEL IS) AS EXIS	STING) OF SAM		IUFAC	TURFI	R AND	A I.C. RATING AS EXISTING		X	Bankout
9. 10.	EXISTING LOAD UTILIZE EXISTING BREAKER FO	<u>DR</u> NEW)	00													E OF UIP
			2,0													1		12/11/2020
							. -			_								
)TE-					P	ANE		GENI)								PANEL
TING C	· · <u>- ·</u> IRCUITS AND NEW CIRCUITS TIF	D TO						1R		H1R								HEDULE
LE BRE	AKERS SHOWN ARE BASED ON FIELD OBSERVATIONS CONTR	RECOR ACTOR	D															
RACE A	ND CONFIRM ALL EXACT CIRCU	ITING. ITING A	s				E	MH1							ENVIS	I ∏ N [™]		
ED IN SF	PECIFICAITONS.														ENGINEERING	G		
				L											240 E. MORRIS AVE	. SUITE 200		

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EP802

PA	ANELBOARD S	CHEDULE				PANELBO	DARD SC	HEDULI			
PANEL NAME: L1MC1 MOUNTING: RECESSED V ENCLOSURE: NEMA 1 DOOR TYPE: - (EXISTING GE) Min. A.I.C.	OLTAGE: 120/208 Wye PHASE: 3 WIRES: 4 . RATING: FIELD VERIFY	LOCATION: WORK RM. 022C- MAIN TYPE: MCB BUS RATING: 225 A MCB RATING: 150 A BUS MATERIAL: -	-A FEED FROM: SPD: - NEUTRAL RATING: - ISOLATED GROUND: -	PANE MOUNTING: RE ENCLOSURE: NE DOOR TYPE: - (E)	L NAME: L1MC ECESSED EMA 1 XISTING GE) Min	2 VOLTAGE: 120/208 PHASE: 3 WIRES: 4 . A.I.C. RATING: FIELD V	Wye ERIFY	LOCATION: WOR MAIN TYPE: MCB BUS RATING: 225 / MCB RATING: 150 / BUS MATERIAL: -	RK RM. 022C-A	FEED FROM: SPD: - NEUTRAL RATING: - ISOLATED GROUND: -	
(EXISTING GE) Min. A.I.C. KEYED NOTE CIRCUIT DESCRIPTION AMP POLE Load CKT 10 RCPT - CERTIFIED TESTING 122 20 A 1 R 1 10 RCPT - CERTIFIED TESTING 122 20 A 1 R 3 10 RCPT - CERTIFIED TESTING 122 20 A 1 R 3 10 RCPT - CERTIFIED TESTING 122 20 A 1 R 5 10 RCPT - CERTIFIED TESTING 122 20 A 1 R 9 10 RCPT - CERTIFIED TESTING 122 20 A 1 R 11 10 RCPT - CERTIFIED TESTING 122 20 A 1 R 13 10 RCPT - CERTIFIED TESTING 122 20 A 1 R 15 10 RCPT - C.T PROCTOR 121 20 A 1 R 21 10 RCPT - CERTIFIED TESTING 122 20 A 1 R 23 10 RCPT - CERTIFIED TESTING 122 20 A 1 R 23	RATING: FIELD VERIFY BRANCH BREAK 540 VA 180 VA B 540 VA 180 VA 540 VA 180 VA 360 VA 180 VA 540 VA 180 VA 360 VA 180 VA 540 VA 180 VA 540 VA 180 VA 720 VA 180 VA 540 VA 180 VA 720 VA 180 VA 540 VA 180 VA 720 VA 180 VA 360 VA 180 VA 720 VA 180 VA 360 VA 180 VA 360 VA 1080 VA 180 VA 360 VA 180 VA 360 VA 180 VA 360 VA 180 VA 360 VA 180 VA 540 VA 180 VA 360 VA 180 VA 540 VA 180 VA 360 VA 180 VA 540 VA 360 VA 360 VA 180 VA 540 VA 540 VA 360 VA 180 VA 540 VA 540 VA 360 VA 180 VA 540 VA 540 VA 360 VA 180 VA 540 VA 55 A	BUS MATERIAL: - CKT Load Type POI 2 R 1 360 VA 180 VA 6 R 1 540 VA 180 VA 12 R 1 540 VA 180 VA 12 R 1 540 VA 180 VA 12 R 1 720 VA 180 VA 18 R 1 720 VA 180 VA 18 R 1 180 VA 1500 VA 24 E 1 180 VA 360 VA 30 R 1 180 VA 360 VA 30 R 1 180 VA 540 VA 36 R 1 180 VA 360 VA 30 R 1 180 VA 360 VA 36 R 1 180 VA 360 VA 42 R 1	LEE AMP CIRCUIT DESCRIPTION KEYED 20 A RCPT - CERTIFIED TESTING 122 10 20 A RCPT - VEST 103 10 20 A RCPT - VEST. 104 10 20 A RCPT - MINIMAL DISTRACTION 10 20 A RCPT - MINIMAL DISTRACTION 10 20 A RCPT - MINIMAL DISTRACTION 10 <	KEYED CIRCUIT DESCRIP 10 RCPT - TESTING 102 9 MAIN BREAKER SHUN 9 A/C UNIT ROOM 42C 10 RCPT - TESTING 102 10 RCPT - SPACE ONLY- -SPACE ONLY- -SPACE ONLY- -SPACE ONL	XISTING GE) Min PTION AMP POLE Load Type 20 A 1 R 20 A 1	AI.C. RATING: FIELD V BF A.I.C. RATING: FIELD V BF A A A A A A A A B A A B B B B B B B B B B B B B	ERIFY B A B A 360 VA 360 VA 360 VA 900 VA 360 VA 360 VA 900 VA 360 VA 360 VA 900 VA 360 VA 360 VA 360 VA 360 VA 370 VA 38 A <t< th=""><th>BUS MATERIAL: - RS C # 360 VA 360 VA 360 VA 360 VA 0 VA 360 VA 10 10 0 VA 360 VA 10 14 360 VA 12 10 14 10 14 10 20 360 VA 360 VA 360 VA 360 VA 360 VA 900 VA 22 360 VA 360 VA 900 VA 26 28 360 VA 180 VA 360 VA 180 VA 360 VA 34 0 VA 0 VA 3600 VA 38 0 VA 0 VA 3600 VA 30 A</th><th>Load POLE AM R 1 20 / R 1 20 /<!--</th--><th>IP CIRCUIT DESCRIPTION A RCPT - TESTING 102 A RCPT - VESTING 102 A RCPT - VEST. 153 A RCPT - VEST. 153 A RCPT - RECEPTION 100 -SPACE ONLY- -SPACE ONLY- -SPACE ONLY- -SPACE ONLY- -SPACE ONLY- -SPACE ONLY- -SPACE ONLY- -SPACE ONLY-</th><th>KEYED 10 110 110 110 110 110 110 110 110 110 110 110 110</th></th></t<>	BUS MATERIAL: - RS C # 360 VA 360 VA 360 VA 360 VA 0 VA 360 VA 10 10 0 VA 360 VA 10 14 360 VA 12 10 14 10 14 10 20 360 VA 360 VA 360 VA 360 VA 360 VA 900 VA 22 360 VA 360 VA 900 VA 26 28 360 VA 180 VA 360 VA 180 VA 360 VA 34 0 VA 0 VA 3600 VA 38 0 VA 0 VA 3600 VA 30 A	Load POLE AM R 1 20 / R 1 20 / </th <th>IP CIRCUIT DESCRIPTION A RCPT - TESTING 102 A RCPT - VESTING 102 A RCPT - VEST. 153 A RCPT - VEST. 153 A RCPT - RECEPTION 100 -SPACE ONLY- -SPACE ONLY- -SPACE ONLY- -SPACE ONLY- -SPACE ONLY- -SPACE ONLY- -SPACE ONLY- -SPACE ONLY-</th> <th>KEYED 10 110 110 110 110 110 110 110 110 110 110 110 110</th>	IP CIRCUIT DESCRIPTION A RCPT - TESTING 102 A RCPT - VESTING 102 A RCPT - VEST. 153 A RCPT - VEST. 153 A RCPT - RECEPTION 100 -SPACE ONLY- -SPACE ONLY- -SPACE ONLY- -SPACE ONLY- -SPACE ONLY- -SPACE ONLY- -SPACE ONLY- -SPACE ONLY-	KEYED 10 110 110 110 110 110 110 110 110 110 110 110 110
LLighting0CContinuous0EEquipment22MMotor0KKitchen0OOther0	0 VA 0.00% 0 VA 0.00% 220 VA 100.00% 0 VA 0.00% 0 VA 0.00% 0 VA 0.00%	0 VA 25% OF L 0 VA 1 2220 VA To 0 VA Total Est 0 VA 0 VA	ARGEST MOTOR: Fotal Est. Demand: 14600 VA otal Conn. Current: 47 A . Demand Current: 41 A	L Lighting C Continuous E Equipment M Motor K Kitchen O Other PANELBOARD SCHEDULE K 1. PROVIDE CLASS A GR 2. PROVIDE ARC FAULT 3. PROVIDE 30 MILLIAMP 4. PROVIDE SHUNT TRIP 5. PROVIDE HACR RATE	EYED NOTE: COUND FAULT INTERRUPTER CIRCUIT INTERRUPTER TYP PERE EQUIPMENT GROUND CIRCUIT BREAKER WITH 12 D CIRCUIT BREAKER.	0 VA 0 V OIL.	0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% ER. ECIRCUIT BREAKER.	0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	25% OF LARGES Total Es Total Cor Total Est. Dema	ST MOTOR: st. Demand: 11120 VA nn. Current: 34 A ind Current: 31 A	
				6. PROVIDE HANDLE CLA 7. BREAKER HANDLE TIE 8. PROVIDE NEW CIRCU 9. EXISTING LOAD 10. UTILIZE EXISTING BRE	AMP FOR HOLDING CIRCUIT ES. IT BREAKER IN EXISTING PA	NELBOARD (WHERE PAI	NEL IS LOCATED AS EX	XISTING) OF SAME MA	NUFACTURER AN	ID A.I.C. RATING AS EXISTING.	
				E) LC NEW SERVICE NEW TOT CAPACITY NOTES: 1. BASED 2. CAI CLI	LOAD (KV XISTING LOAD (1) 108.11 DAD REMOVED (2) 30.43 W LOAD ADDED (3) 71 SIZE (AMPS): "AL LOAD (AMPS): Y: ON PEAK DEMAND OVER THE LAST LATED LISING NEC OUTLET LOADS A	A) FACTOR T 1.25 1 1 1200 211.35 82.4% 12 MONTHS RECEIVED FROM F	TOTAL (KVA)	9 POWER FACTOR.	TOTAL (AMPS) 162.55 36.60 85.40		
				3. ESTIMA	ATED DEMAND, PER NEC FACTORS,	BALANCED BETWEEN THE PHA	SES.				
			<u>5</u>	SPECIAL NOTE:		P	ANEL LEGE	END L1MC2			

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TYPE	LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL	TOTALS
Р	Panel	0 VA	0.00%	0 VA		
R	Receptacle	14760 VA	83.88%	12380 VA	Total Conn. Load:	16980 VA
L	Lighting	0 VA	0.00%	0 VA	25% OF LARGEST MOTOR:	
С	Continuous	0 VA	0.00%	0 VA	Total Est. Demand:	14600 VA
E	Equipment	2220 VA	100.00%	2220 VA	Total Conn. Current:	47 A
м	Motor	0 VA	0.00%	0 VA	Total Est. Demand Current:	41 A
K	Kitchen	0 VA	0.00%	0 VA		
0	Other	0 VA	0.00%	0 VA		

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ALL EXISTING CIRCUITS AND NEW CIRCUITS TIED TO AVAILABLE BREAKERS SHOWN ARE BASED ON RECORD DRAWINGS AND FIELD OBSERVATIONS. CONTRACTOR SHALL TRACE AND CONFIRM ALL EXACT CIRCUITING. CONTRACTOR SHALL REDLINE AS-BUILT CIRCUITING AS REQUIRED IN SPECIFICAITONS.

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EP803

Y2	NEW LOCATION OF EXISTING FIRE ALA CIRCUIT TO NEW LOCATION. DO NOT S CONDUIT AND CONDUCTORS AS REQU
Y3	PROVIDE NEW FIRE ALARM DEVICE OF EXISTING SYSTEM. TIE TO AN EXISTING AVAILABLE CAPACITY OR A NEW LOOP CONDUIT AND CONDUCTORS. SPLICES
Y4	PROVIDE A 12" WIDE, 4" HIGH BASKET BOTTOM. PROVIDE BONDING JUMPER THE TRAY WITH #6 THHN GROUND CON IN THE TELECOM ROOM. COORDINATE ARCHITECT FOR EXACT HEIGHT AND L

MAXIMUM CABLE TRAY PLUS CABLE WT.	MAX VERTICAL SUPPORT SPACING	MAX LATERAL SUPPORT SPACING	MAX LONGITUDINAL SUPPORT SPACING	ROD DIAMETER	CABLE BRACE SWIVEL ANCHOR & CABLE
POUNDS/FOOT	FEET	FEET	FEET	INCHES	
25	10	10	20	0.375	SCB2
50	10	10	20	0.500	SCB3

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ABBREVIATIONS:	ACCESS CONTROL COORDINATION REQUIR
ADO - AUTOMATIC DOOR OPERATOR AFF - ABOVE FINISHED FLOOR AP - ACCESS CONTROL PANEL CR - CARD READER	CODE REFERENCES AND REQUIREMENTS: 2016 NFPA 101 - LIFE SAFETY CODE • 7.2.1.5.6(5) REQUIRES THAT LOSS OF POWER WILL UNLO 7.2.1.6.2.(4) REQUIRES THAT ACTIVATION OF THE BUILDIN
DHS - DOOR HARDWARE SUPPLIER DPS - DOOR POSITION SWITCH EPT - ELECTRIC POWER TRANSFER ES - ELECTRIC STRIKE	2016 NFPA 60 - FIRE DOORS AND OTHER OPENING PROTECTIVES • 6.1.3.4 REQUIRES THAT POWER OPERATED FIRE DOORS • 6.4.4.3.3 REQUIRES THAT FIRE RATED DOORS BE POSITIVE
MAG LOCK - MAGNETIC LOCK RX - EXIT DEVICE PB - DOOR RELEASE PUSH BUTTON (MANUA	AL REX) 2012 IBC - INTERNATIONAL BUILDING CODE • 1010.1.9.8 REQUIRES ELECTROMAGNETICALLY LOCKED I
RFI - REQUEST FOR INFORMATION	INTEGRATION WITH FIRE ALARM ALL MAGNETIC LOCKS SHALL BE UNLOCKED DURING A GENERA OR SPRINKLER FLOW REQUIRE UNLOCKING AND THE DOOR MU MODULES OR BY CONTACT CLOSURE SIGNALING TO THE ACCES
	***TO ENSURE A COMPLETE AND OPERATING ACCESS CONTROL FAILURE TO DO SO RESULTING IN ADDED COSTS AND LOST TIM
	DURING THE BIDDING PROCESS:1.THE ELECTRICAL CONTRACTOR SHALL REVIEW THE FLCLOCATIONS REQUIRING JUNCTION BOXES WILL BE SHOWARCHITECTURAL DOOR HARDWARE SPECIFICATION. AN
	2. THE ELECTRICAL CONTRACTOR SHALL REVIEW THE ARC RATED WALLS AND IN PATHS OF EGRESS REQUIRING AD
	3. THE ELECTRICAL CONTRACTOR SHALL VERIFY WHICH D ACCORDING TO WHICH HARDWARE SUPPLIER BEING US POST-BID, DURING THE SUBMITTAL PROCESS:
	4. DURING THE SUBMITTAL PROCESS, THE ELECTRICAL CO ISSUED BY FORMAL RFI.
	5. MEET WITH THE ACCESS CONTROL VENDOR TO REVIEW ANY ROUGH-IN WORK BEGIN.
	6"X6"X4" SQ JUNCTION BOX. MOUNT JUNCTION BOX ABOVE DOOR IN THE CEILING SPACE OF THE SECURE SIDE
	3/4" C.
	MANUFACTURER CONT. HINGE
	1 TYPICAL INTEGRATED LOCKSET DOO SCALE: NTS

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<u>REMENTS:</u>

OCK THE ELECTRICALLY CONTROLLED DOOR HARDWARE. NG FIRE ALARM SYSTEM UNLOCK ALL DOORS LOCATED IN THE PATH OF EGRESS. 2016 NFPA 80 - FIRE DOORS AND OTHER OPENING PROTECTIVES

HAVE A RELEASING DEVICE TO AUTOMATICALLY RELEASE POWER UPON FIRE ALARM. IVELY LATCHED TO MAINTAIN THE FIRE RATING, ALL ELECTRIC STRIKES USED IN FIRE RATED DOORS MUST BE FAIL SECURE.

DOORS HAVE A SENSOR RELEASE SWITCH EITHER AUTOMATIC OR BY A READILY ACCESSIBLE WALL MOUNTED PUSHBUTTON TO RELEASE THE LOCK WITHIN 5' OF THE DOOR.

AL FIRE ALARM. THIS ACTION IS NOT REQUIRED IF SYSTEM IS IN ALARM BY MEANS OF A MANUAL PULL STATION. AUTOMATIC DETECTION DEVICES SUCH AS SMOKE DETECTORS JST REMAIN UNLOCKED UNTIL FIRE ALARM SYSTEM RESET. CONTRACTOR SHALL INCLUDE ALL FIRE ALARM INTERFACE EQUIPMENT SUCH AS ADDRESSABLE CONTROL SS CONTROL PANELS AS NECESSARY TO MEET THE CODE REQUIREMENTS. ALL DOORS IN STAIRWELLS MUST ALLOW FOR RE-ENTRY.

L SYSTEM AND TO ELIMINATE DELAYS, INSUFFICIENT OR UNNECESSARY WORK BY ALL OF THE ENTITIES INVOLVED, THE FOLLOWING STEPS SHALL BE COMPLETED. THE IE WILL BE BORN SOLELY BY THE CONTRACTOR. NO ADDITIONAL PAYMENTS WILL BE MADE BY THE OWNER TO COVER WORK DESCRIBED BELOW.***

OORPLAN DRAWINGS AND DETAILS ON THIS SHEET. THE FLOORPLANS WILL INDICATE WHICH DOORS HAVE ACCESS CONTROL EQUIPMENT REQUIRING ROUGH-IN. DEVICE WN ON THE FLOORPLANS, BUT ALL CONDUIT AND HARDWARE REQUIREMENTS CAN ONLY BE DETERMINED BY REFERRING TO THE SPECIFIC DOOR ROUGH-IN DETAILS AND THE ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.

CHITECTURAL DOOR HARDWARE SCHEDULE, DOOR HARDWARE SPECIFICATIONS, AND DEFINED EGRESS PATHS. IDENTIFY ACCESS CONTROLLED DOORS LOCATED IN FIRE DDITIONAL CONTROL DEVICES.

DOORS USING AN ELECTRIFIED EXIT DEVICE WILL REQUIRE 120V AT THE DOOR. THIS IS MANUFACTURER SPECIFIC AND MUST BE CONFIRMED WITH THE GENERAL CONTRACTOR SED

ONTRACTOR SHALL REVIEW THE APPROVED DOOR HARDWARE SUBMITTAL TO CONFIRM THE FINAL HARDWARE SETS PRIOR TO ANY ROUGH-IN. ANY QUESTIONS SHALL BE

V ALL FINAL INTEGRATION AND ROUGH-IN REQUIREMENTS. ONLY AFTER CONFIRMING THE FINAL DOOR HARDWARE AND ACCESS CONTROL SYSTEM REQUIREMENTS SHALL

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GENERAL NOTES:

- THE DOOR DETAILS SHOWN BELOW ARE GENERAL ROUGH-IN DETAILS AND NOT ALL DEVICES SHOWN MAY BE PRESENT FOR EACH DOOR. CONTRACTOR SHALL REFER TO THE DOOR HARDWARE SCHEDULE IN THE ARCHITECTS DRAWINGS AND SPECS TO DETERMINE WHAT DEVICES ARE PRESENT FOR EACH DOOR REQUIRING CARD ACCESS DOOR EQUIPMENT.
- NOT ALL DOOR STYLE DETAILS SHOWN BELOW MAY BE INCLUDED IN THE PROJECT.
- ALL CONDUIT SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. THE DOOR ROUGH-IN INFORMATION SHOWN ON THESE DRAWINGS ARE SCHEMATIC IN NATURE AND CANNOT ACCOUNT FOR ALL SPECIFIC VENDOR REQUIREMENTS, OR ACTUAL DOOR HARDWARE PROVIDED. COORDINATE SPECIFIC LOCATIONS WITH SECURITY CONTRACTOR AND APPROVED DOOR HARDWARE SCHEDULES PRIOR TO ROUGH-IN. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE CONDUIT RACEWAY SYSTEM AT THE DOOR AND BACK TO LOCAL ELECTRICAL ROOM.
- IF REX IS NOT INCLUDED IN DOOR HANDLE OR EXIT DEVICE, PROVIDE BOX FOR WALL MOUNTED REX DEVICE. VERIFY WITH DOOR HARDWARE PRIOR TO ROUGH-IN.
- PROVIDE CONDUIT AND DEVICE BACK BOX ROUGH-IN AT ALL CARD READER DOOR LOCATIONS. CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED AND ALL BOXES SHALL BE 4 SQUARE WITH A SINGLE GANG MUD RING FOR DEVICES OR JUST A SINGLE GANG BOX IF INSTALLED AT THE DOOR FRAME.
- A SINGLE FIRE ALARM CONTROL MODULE MAY BE USED TO CONTROL THE POWER TO MULTIPLE DOORS IF COORDINATED WITH THE ACCESS CONTROL SYSTEM VENDOR TO WIRE DOORS SEPARATE FROM OTHER DOORS TOGETHER ON THE SAME POWER SUPPLY LOOP.
- IF NO ACCESSIBLE CEILING SPACE IS NEAR THE CONTROLLED DOOR, ALL CONDUITS ARE TO BE RUN CONTINUOUS TO THE DOOR ACCESS CONTROL PANEL UNLESS A LOCATION IS DETERMINED TO BE ACCEPTABLE TO THE ENGINEER PRIOR TO INSTALLATION.

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PARTIAL EXISTING FIRE ALARM RISER DIAGRAM 1 SCALE: NTS

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- DRAWINGS OF THE ENTIRE FIRE ALARM SYSTEM USING FLOOR PLANS PROVIDED BY THE ENGINEER. SHOP DRAWINGS TO INCLUDE BATTERY CALCULATIONS, VOLTAGE DROP CALCULATIONS, PLANS, SECTIONS, ELEVATIONS, FINAL DEVICE LOCATIONS AND ADDRESS, CONDUIT SIZE AND ROUTING AND ALL CONDUCTOR SIZES. TYPICAL RISERS AND CALCULATIONS WILL NOT BE ACCEPTED. ALL SHOP DRAWINGS SHALL BE PREPARED AND APPROVED BY A NICET CERTIFIED FIRE
- 8. ALL NOTIFICATION DEVICE CIRCUIT VOLTAGE DROP CALCULATIONS SHALL BE DONE IN COMPLIANCE WITH NFPA 72. THE FIRE ALARM SYSTEM SUPPLIER TO DETERMINE THE NUMBER OF NOTIFICATION DEVICE CIRCUITS THAT ARE REQUIRED BASED ON THE NUMBER OF NOTIFICATION DEVICES SHOWN ON THE DRAWINGS. THE FIRE ALARM SUPPLIER SHALL DETERMINE THE NUMBER OF 'NAC' PANELS THAT WILL BE REQUIRED BASED ON THE QUANTITY OF NOTIFICATION DEVICE
- 9. THE FIRE ALARM SYSTEM SUPPLIER SHALL SUBMIT THE FIRE ALARM SHOP DRAWINGS AND MANUFACTURERS CUTSHEETS TO THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR REVIEW AND APPROVAL PRIOR TO THE ROUGH-IN OF THE SYSTEM. PROVIDE A MINIMUM OF TWO (2) SETS OF DRAWINGS,
- 10. VERIFY AND COMPLY WITH ALL STATE, LOCAL AND NATIONAL CODES.
- 11. UPON CLOSE OUT OF THE PROJECT THE FIRE ALARM SYSTEM SUPPLIER TO PROVIDE A CD(S) WITH CAD AND PDF DRAWINGS OF THE BUILDING FIRE ALARM MAP, CAD AND PDF AS-BUILT DRAWINGS, GENERAL PROGRAMMING, SITE SPECIFIC PROGRAMMING, O&M MANUALS FOR THE FIRE ALARM SYSTEM AND 'NAC' PANELS AND A TUTORIAL ON PROGRAMMING THE SYSTEM. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

	SLCC TESTING CENTER	4600 South Redwood Rd Taylorsville, UT 84123										
	PROJECT #: 20029											
Γ		BID SET 2/17/2021										
2	△ DATE	REVISION										
	9808039-2202 ALEKSANDAR RANKOVIC											
	VIEW AND PRINT THIS SHEET IN COLOR FIRE ALARM RISER DIAGRAM											
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