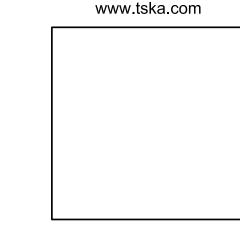


- A. REFER TO ARCHITECTURAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR
- INSTALL S.O.V. ON ALL PIPING STUBS FOR PHASE 2 CONNECTION.
- SUPPORT PIPING PER DETAILS C, E&F/M5.01. SEE 1/M2.01 FOR ROUTING
- E. ALL EXTERIOR HYDRONIC PIPING (EXPOSED TO WEATHER) SHALL BE COVERED
- F. RUN STAINLESS STEEL PIPING/TUBING FROM RO FEED LINE TO AC UNIT ON ROOF. PROVIDE WITH COMPRÉSSION FITTINGS.

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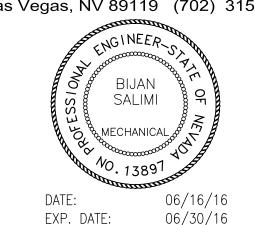


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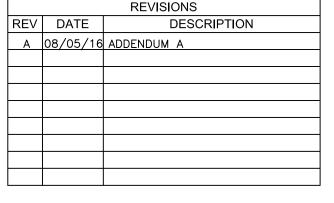
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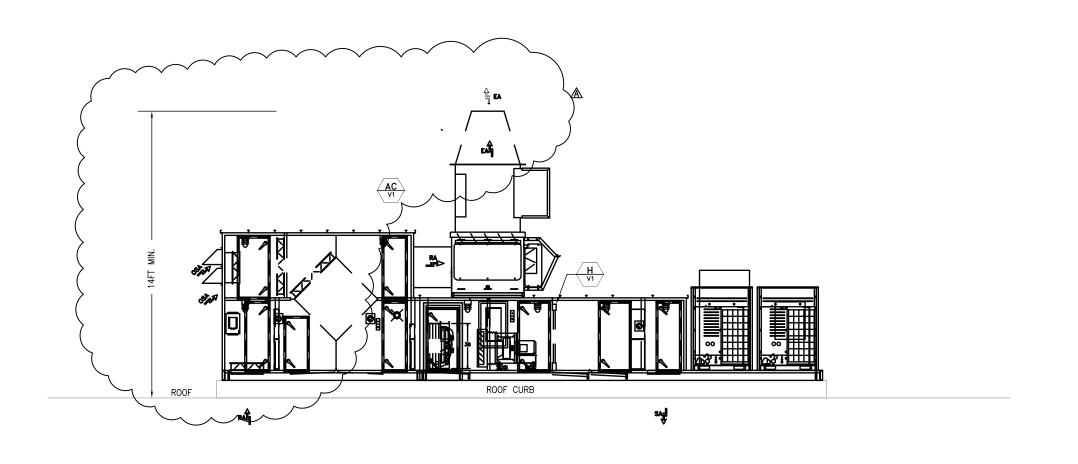


Sheet Title PHASED FLOOR **PLANS-PIPING**

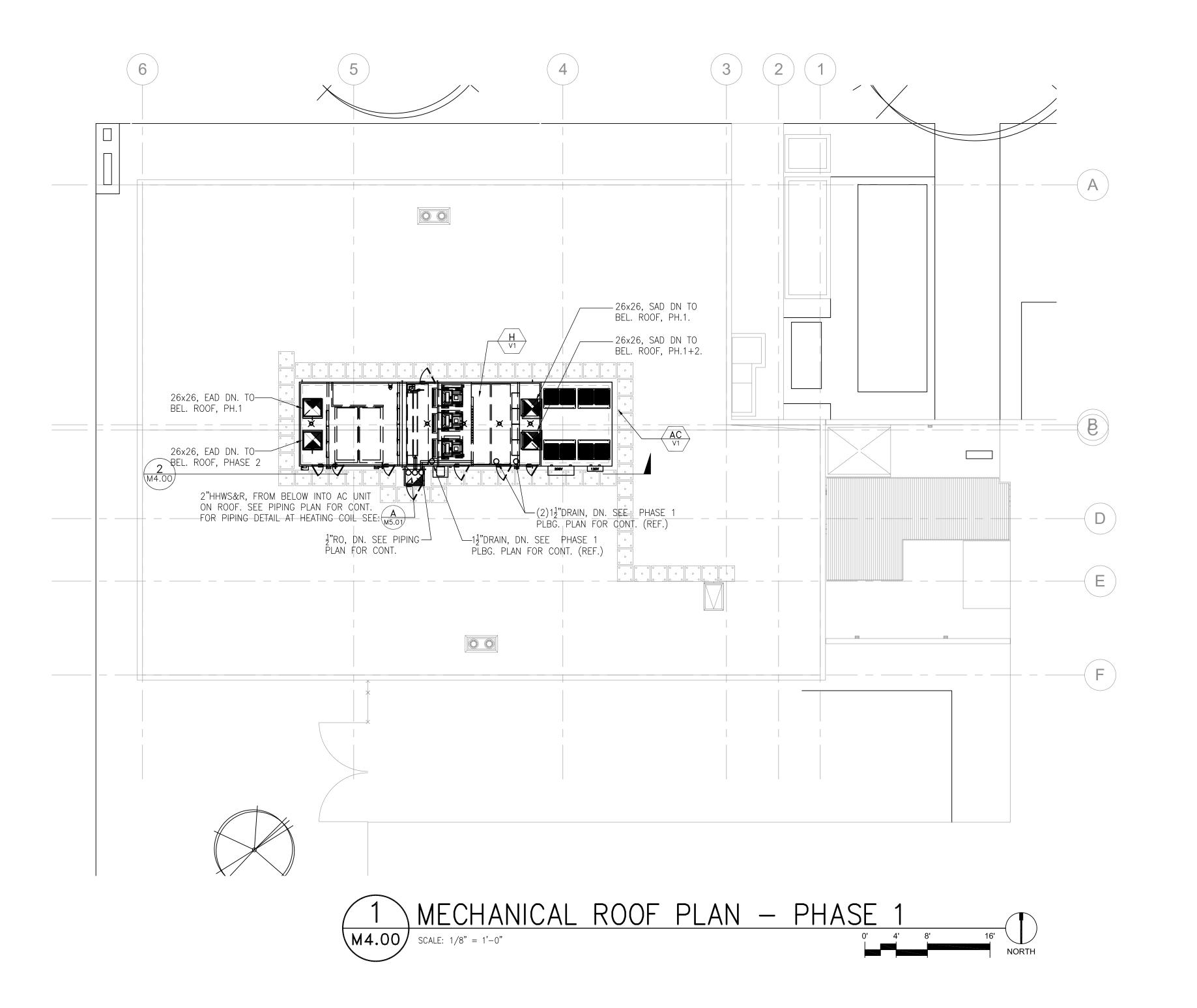
Date: 06/17/2016 Sheet No:

KEYPLAN

M1.02

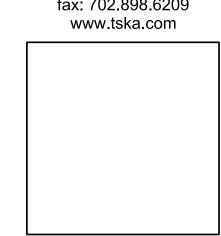


MECHANICAL SECTION—ROOF M4.00 SCALE: 1/4" = 1'-0"





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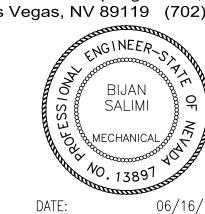


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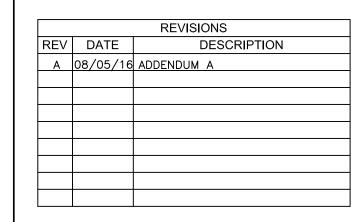
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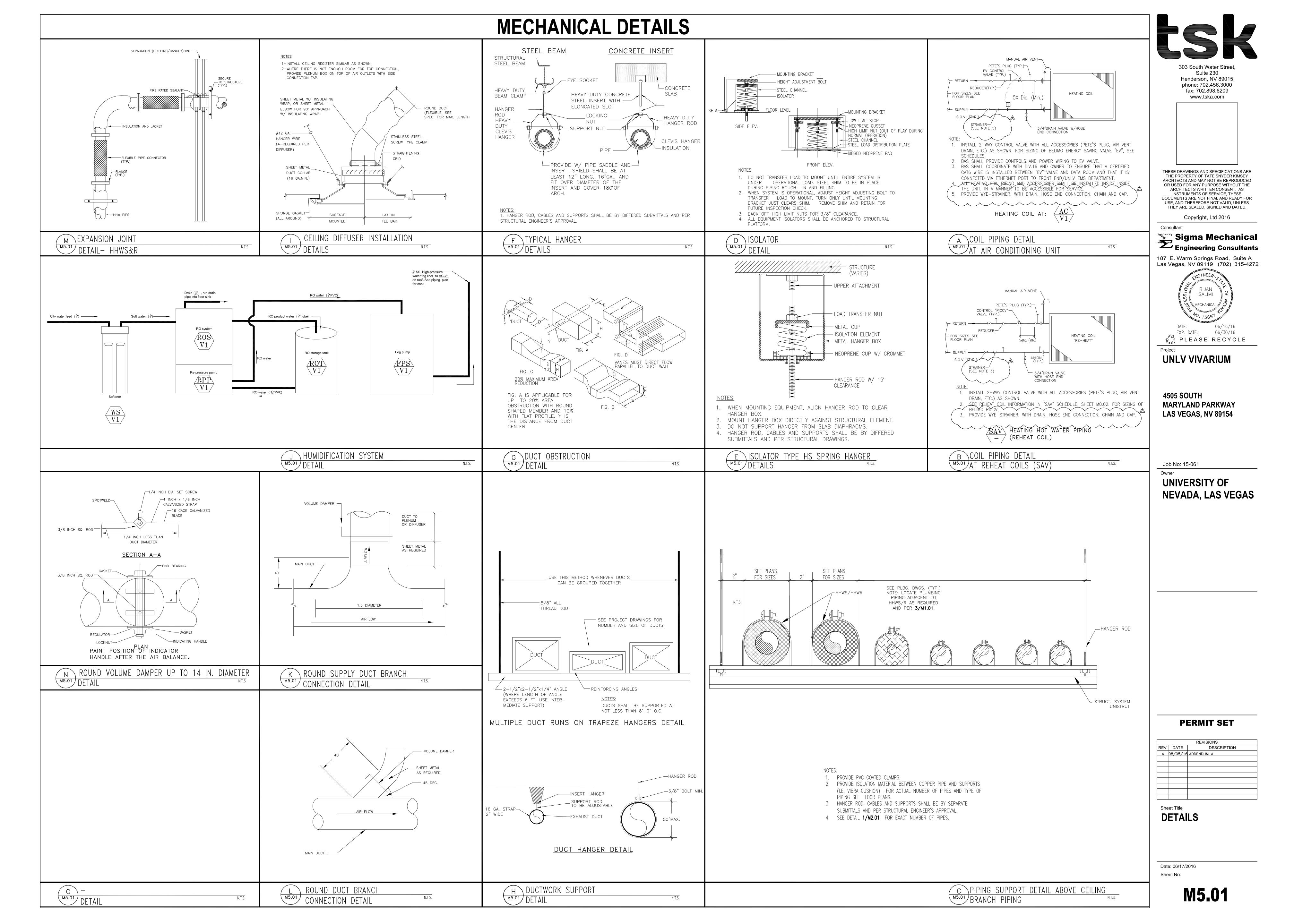


PHASED ROOF
PLAN AND SECTION

Date: 06/17/20

KEYPLAN

M4.00



DI LIMBING I ECEND PLUMBING NOTES PLUMBING INDEX

		PLUMB	ING LE	GEND							
	S	YMBOLS		ABBREVIATIONS							
<u>SYMBOL</u>	<u>ABBREVIATION</u>	DESCRIPTION	ABV.	ABOVE	LID	HOSE DIDD	1. ALL WORK SHALL BE AND PLUMBING CODE				
	(E)	EXISTING PIPING OR EQUIPMENT TO REMAIN.	AD AFF	ACCESS DOOR ABOVE FINISHED FLOOR	HB H.C.	HOSE BIBB HANDICAP	ARCHITECTURAL GENE 2. REFER TO ARCHITECT				
	(E)		AP	ACCESS PANEL	HP HW	HORSEPOWER DOMESTIC HOT WATER	3. THE CONSTRUCTION (
	(E)	EXISTING PIPING, OR EQUIPMENT TO BE REMOVED.	ARCH AS	ARCHITECTURAL AUTOMATIC FIRE	HWR	DOMESTIC HOT WATER RETURN PIPING	WILL REQUIRE ACCUR DETAIL AND CLOSE S TO DO THIS WORK IN				
	(E)AW (E)W	(E)ACID WASTE (E)WASTE	ASS'Y.	SPRINKLER PIPING ASSEMBLY	HZ I.E.	HERTZ INVERT ELEVATION	4. THE CONTRACTOR SH				
	(E)AV (E)V	(E)ACID VENT (E)VENT	BEL BHP	BELOW BRAKE HORSEPOWER	IN	INCHES	ELEVATIONS, PRESSUF				
	(E)CW (E)HW	(E)DOMESTIC COLD WATER (E)DOMESTIC HOT WATER	BTU BTUH	BRITISH THERMAL UNIT BTU PER HOUR	INT. KW	INTEGRAL KILOWATT	5. THE CONTRACTOR SH WORK INCLUDED PRICE				
	(E)HWR	(E)DOMESTIC HOT WATER RETURN	BV	BALANCING VALVE	LAV LBS	LAVATORY POUNDS	6. SEE ARCHITECTURAL ACCESSORIES.				
———(E)PW——— ———(E)IW———	(E)PW (E)IW	(E)PURIFIED WATER (E)INDUSTRIAL WATER	CA	CONVERTOR COMPRESSED AIR	MAX MBH	MAXIMUM THOUSAND BTU PER HOUR	7. ALL CLEANOUTS SHAL				
———(E)TW——— ———(E)TWR———	(E)TW (E)TWR	(E)TEMPERED WATER (E)TEMPERED WATER RETURN	CFF C.F.H.	CAPPED FOR FUTURE CUBIC FEET PER HOUR	MCC MECH	MOTOR CONTROL CENTER MECHANICAL	8. THESE DRAWINGS ARE INDICATE ALL NECESS				
——— (E)G ——— ———(E)LA ———	(E)G (E)LA	(E)GAS (8" WATER COLUMN) (E)LABORATORY AIR	CLG. CONN	CEILING CONNECTION/CONNECT	MH	MANHOLE	INSTALL MATERIAL AN STRUCTURE, AVOID OF				
———(E)LV ——— ———(E)LG ———	(E)LV (E)LG	(E)LABORATORY VACUUM (E)LABORATORY GAS	CFM COND	CUBIC FEET PER MINUTE CONDENSATE	MIN MTD.	MINIMUM MOUNTED	AND PASSAGEWAYS C NORMALLY ACCEPTABL ARCHITECT IN WRITING				
———(E)MG———	(E)MG	(E)MEDIUM PRESSURE GAS	CONT	CONTINUATION	MXV NC	MIXING VALVE NORMALLY CLOSED	AFFECT THE SYSTEM COSTS. THIS NOTIFIC				
———(E)SD——— ———(E)OD———	(E)SD (E)OD	(E)STORM DRAIN (E)OVER FLOW	CONTR. CU FT	CONTRACTOR CUBIC FEET	N.I.C. NO	NOT IN CONTRACT NORMALLY OPEN	THE ITEMS CONCERNE 9. EQUIPMENT INDICATED				
<u> </u>	PG	PRESSURE GAUGE	CU IN CW	CUBIC INCHES DOMESTIC COLD	NO. NTS	NUMBER NOT TO SCALE	POSITION(S). CONTRACE EQUIPMENT LOCATION:				
 		RELIEF VALVE PIPE ANCHOR	DF DFC	WATER DRINKING FOUNTAIN DRINKING FOUNTAIN AND	OD	OVERFLOW DRAINAGE PIPING	INSTALLATION. IN ALL RECOMMENDATIONS AI				
	TP	FLEXIBLE PIPE CONNECTION TRAP PRIMER	DIA	CUSPIDOR DIAMETER	OPER.WT. OPNG	OPENING	REPLACEMENT OF EQ				
	11	DIRECTION OF FLOW	DN.	DOWN	O.S&Y GV	OUTSIDE STEM AND YOKE GATE VALVE	10. ALL WORK SHALL BE NOTHING SHOWN IN T INTENDED TO INDICAT				
	AW	INCREASER ACID WASTE ABOVE FLOOR	DR DS	DRAIN DOWN SPOUT	P PD	PUMP PRESSURE DROP	OR DEVICE SHOULD E AND ALL APPLICABLE				
	W GW	WASTE ABOVE FLOOR GREASE WASTE BELOW FLOOR	DW DWG.	DISH WASHER DRAWING	PG PH	PRESSURE GAUGE PHASE	RESPONSIBLE TO INSI				
	AW W	ACID WASTE BELOW GRADE WASTE BELOW GRADE	EA EL	EACH ELEVATION	PIV	POST INDICATING VALVE PROJECT MANAGER	ALL APPLICABLE COD 11. ALL PLUMBING EQUIP				
ф	F.C.O./Y.C.C W.C.O.		ELEC EQUIP.	ELECTRICAL EQUIPMENT	PM POC	POINT OF CONNECTION	BE INSTALLED COMPL COMPLETE AND FULLY				
<u> </u>	C.O.	CLEANOUT	EWC	ELECTRIC WATER COOLER	PRV PSI	PRESSURE REDUCING VALVE ASSEMBLY POUNDS PER	12. IF THE CONTRACTORS METHODS OF INSTALL				
	AV V	ACID VENT VENT	EWH EXH	ELECTRIC WATER HEATER EXHAUST	PSIG	SQUARE INCH PSI GAUGE	SHOWN ON THE DRAW RESPONSIBILITY OF TI				
	CW HW	DOMESTIC COLD WATER DOMESTIC HOT WATER(120°F)	F FCO	FIRE MAIN PIPING FLOOR CLEANOUT	RD R.I.&C.	ROOF DRAIN ROUGH-IN & CONNECT	13. SUBMITTALS: APPROVA				
——————————————————————————————————————	HW HWR	DOMESTIC HOT WATER(140°F) DOMESTIC HOT WATER RETURN	FS COTG	FLOORSINK CLEANOUT TO GRADE	RPPA	REDUCED PRESSURE BACKFLOW PREVENTER	FROM OBLIGATIONS TO CONSTRUCTION DOCU				
——————————————————————————————————————	IW TW	INDUSTRIAL WATER TEMPERED WATER	FCV FD	FLOW CONTROL VALVE FLOOR DRAIN	RPM	REVOLUTIONS PER MINUTE	14. BEFORE SUBMITTING THOROUGH FIELD SUI				
TWR	TWR	TEMPERED WATER RETURN	FDC	FIRE DEPARTMENT	SD S	STORM DRAIN SINK	THAT MAY AFFECT TH				
——————————————————————————————————————	RO G	REVERSE OSMOSIS WATER GAS (8" WATER COLUMN)	FHC	CONNECTION FIRE HOSE CABINET	W SQ.FT.	SOIL OR WASTE PIPING SQUARE FEET	APPURTENANCES, AND COMPLETE INSTALLATI				
——————————————————————————————————————	LA 02	LABORATORY AIR OXYGEN	FIN.FLR. FLR. FPM	FINISH FLOOR FLOOR FEET PER MINUTE	SS TD	SERVICE SINK TROUGH DRAIN	THE OWNER, ARCHITE				
——————————————————————————————————————	CO2 LV	CARBON DIOXIDE LABORATORY VACUUM	FS FT	FLOOR SINK FEET	TEMP TYP	TEMPERATURE TYPICAL	16. SOIL, SEWER AND WA UNLESS OTHERWISE N				
——————————————————————————————————————	LG MG	LABORATORY GAS MEDIUM PRESSURE GAS	F.U. GAL	FIXTURE UNIT GALLON	U	URINAL	17. ALL PLUMBING SOLDE				
SD ————————————————————————————————————	SD SD	STORM DRAIN ABOVE FLOOR STORM DRAIN BELOW GRADE	G.D. G.M.	GARBAGE DISPOSER	U.G. V	UNDER GROUND SANITARY VENT PIPING	18. SEISMIC NOTE: SEISM IBC REQUIREMENTS.				
OD	OD	OVER FLOW DRAIN ABOVE FLOOR	GPM	GAS METER GALLON PER MINUTE	V.B. VTR	VACUUM BREAKER VENT THROUGH ROOF	19. COORDINATE PLUMBIN FABRICATION OR INST				
——————————————————————————————————————	CD COD	CONDENSATE DRAIN CONDENSATE OVERFLOW DRAIN	GWH G.R.	GAS WATER HEATER GAS REGULATOR	WC W.C.	WATER CLOSET WATER COLUMN	TRANSITIONS AS REQU				
D	D TP	DRAIN TRAP PRIMER LINE	GV	GATE VALVE	WCO WF	WALL CLEAN OUT WASH FOUNTAIN	20. COORDINATE LOCATION MECHANICAL AND ARC				
	PRV S.V.	PRESSURE REDUCING VALVE SOLENOID VALVE			WH	WATER HEATER	21. PLATFORMS, CURBS A INDICATED ON THE ST				
	S.O.V. C.V.	SHUT-OFF VALVE CHECK VALVE					OTHERWISE. COORDIN, FOR FURNISHED EQUI				
	B.V.	BALANCING VALVE					22. ALL PLUMBING VENTS PORTION OF THE ROO				
<u> </u>	G.C. HB	GAS COCK HOSE BIBB	DETAIL	/ RISER REFERENCE	EQUIPMENT I	DENTIFICATION SYMBOL	23. TEST TEES SHALL BE				
	U.	UNION FLANGED CONNECTION	XX	<i>'</i> ←	\longrightarrow	- EQUIPMENT TYPE	TESTING OF ALL POR THAT ARE CONNECTED				
	W.H.A. A.P.	WATER HAMMER ARRESTOR ACCESS PANEL	XX)•		/	- EQUIPMENT IDENTIFIER					
		PIPE RISE PIPE DROP			E REFERENC						
		PIPE CONNECTION, BOTTOM PIPE CONNECTION, TOP		[XX] •── EQU	IPMENT FURI	NISHED BY OTHERS					
	DDD	PIPING CAPPED					1. ALL PENETRATIONS T GRADE, ROOF AND C				
	RPPA (5)05	REDUCED PRESSURE BACKFLOW PREVENTER					PROPER MATERIALS ARCHITECTURAL DRAW				
(E)SP	(E)SP	(E)FIRE SPRINKLER PIPING/ BRANCH					2. SEAL ALL PIPING PE MAINTAIN FIREPROOF				
⊗——	FS	FIRE SPRINKLER RISER (REFERENCE ONLY)					3. INSTALL INSULATION				
	FS FD	FLOOR SINK FLOOR DRAIN					ACCESS FOR MAINTE THAT IT CAN BE EAS				

FLOOR DRAIN

ROOF DRAIN

P.O.C.

P.O.D.

OVERFLOW DRAIN

POINT OF CONNECTION

POINT OF DISCONNECT

GENERAL NOTES

- BE IN STRICT ACCORDANCE WITH THE ENFORCED BUILDING DES, AND AUTHORITIES HAVING JURISDICTION. REFER TO NERAL INFORMATION SHEET.
- CTURAL DRAWINGS FOR DETAILS OF NEW CONSTRUCTION.
- I OF THIS PROJECT IS WORK OF COMPLEX NATURE WHICH URATE PLANNING. CAREFUL PREPARATION AND EXECUTION TO SUPERVISION BY THE CONTRACTOR WHO WILL BE REQUIRED IN FULL COOPERATION WITH ALL TRADES.
- SHALL VERIFY ALL UTILITIES LOCATION, SIZE, INVERT SURE AND AVAILABILITY PRIOR TO START OF ANY WORK.
- SHALL COORDINATE WITH ALL TRADES FOR CLEARANCES AND RIOR TO START OF ANY WORK.
- DRAWINGS FOR PLUMBING FIXTURES CASEWORK AND
- HALL BE ACCESSIBLE AND INSTALLED PER UPC.
- ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO SSARY OFFSETS OF PIPING. THE CONTRACTOR SHALL AND EQUIPMENT IN A MANNER AS TO CONFORM TO OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS CLEAR. ALL INSTALLATIONS SHALL BE CONSISTENT WITH ABLE INDUSTRY STANDARDS. CONTRACTOR SHALL NOTIFY THE ING OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD M PERFORMANCE OR WHICH WOULD INCUR ADDITIONAL FICATION SHALL BE MADE PRIOR TO THE INSTALLATION OF
- FED ON THESE DRAWINGS IS SHOWN IN APPROXIMATE RACTOR SHALL VERIFY ALL CONDITIONS INCLUDING ONS, P.O.C.'S, AND STRUCTURAL MEMBERS PRIOR TO ALL CASES, ADEQUATE ACCESS (PER MANUFACTURERS AND CODE COMPLIANCE) FOR MAINTENANCE AND EQUIPMENT SHALL BE PROVIDED.
- BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES. THE PLANS OR STATED IN THE SPECIFICATIONS IS CATE THAT THE INSTALLATION OR CONNECTIONS OF ANY ITEM BE DONE CONTRARY TO MANUFACTURERS INSTRUCTIONS LE CODES AND REGULATIONS. THE CONTRACTOR IS NSURE THAT THE INSTALLATIONS AND CONNECTIONS OF ALL CONFORMS TO MANUFACTURERS INSTRUCTIONS AND TO DDES AND REGULATIONS.
- JIPMENT, MATERIAL, AND ALL CONNECTIONS THERE TO SHALL IPLETE PER MANUFACTURERS INSTRUCTIONS TO PROVIDE A LLY OPERATIONAL SYSTEM.
- PRS' USE OF SUBSTITUTE MATERIALS, EQUIPMENT OR LLATION REQUIRES ANY CHANGES IN WORK FROM THAT RAWINGS, THE EXTRA COST OF THE WORK SHALL BE THE THE CONTRACTOR INITIATING THE SUBSTITUTION.
- OVAL OF SUBMITTALS DOES NOT RELEASE THE CONTRACTOR TO FULLY COMPLY WITH ALL REQUIREMENTS OF THE CUMENTS OR APPLICABLE CODE REGULATIONS.
- BIDS FOR THE WORK THE CONTRACTOR SHALL MAKE A SURVEY OF THE WORK TO DETERMINE ANY INTERFERENCE THE INSTALLATION OF THE WORK.
- SHALL FURNISH ALL MATERIAL, LABOR, EQUIPMENT, AND OTHER CONTRACTUAL ITEMS REQUIRED FOR THE ATION OF THE PLUMBING WORK TO THE SATISFACTION OF ITECT AND ENGINEER.
- WASTE PIPING SHALL SLOPE AT 1/4" PER FOOT MINIMUM NOTED ON THE DRAWINGS.
- LDER SHALL BE LEAD FREE.
- SMIC BRACING AND ANCHORAGE OF PIPES SHALL BE PER
- BING SYSTEMS WITH WORK OF ALL TRADES PRIOR TO ANY STALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND EQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- IONS OF ALL ROOF OPENINGS WITH STRUCTURAL, RCHITECTURAL PLANS PRIOR TO ANY INSTALLATION.
- AND FLASHINGS FOR PLUMBING EQUIPMENT SHALL BE AS STRUCTURAL AND ARCHITECTURAL PLANS, UNLESS NOTED INATE EXACT SIZES OF REQUIRED OPENINGS AND SUPPORTS QUIPMENT.
- NTS SHALL TERMINATE MINIMUM OF 20 FEET AWAY FROM ANY ROOFTOP AIR HANDLING AND MULTIZONE UNITS.
- BE INSTALLED AS NECESSARY AND AS REQUIRED FOR ORTIONS OF NEW UNDERGROUND SANITARY WASTE PIPING TED TO THE EXISTING WASTE PIPING UNDERGROUND.

SPECIFIC NOTES

- THRU WALLS (INTERIOR OR EXTERIOR), CEILING, FLOOR, CANOPY SHALL BE SEALED AIR AND WATER TIGHT WITH AND METHODS. PATCH AND PAINT THE SURFACE PER RAWINGS. TYPICAL FOR EVERY AND ALL PENETRATIONS.
- PENETRATIONS THRU RATED WALLS AND CEILINGS TO OF RATINGS, AS APPLICABLE.
- ON FOR EQUIPMENT VALVES AND FITTINGS REQUIRING ACCESS FOR MAINTENANCE, REPAIR, OR CLEANING, IN SUCH A MANNER THAT IT CAN BE EASILY REMOVED AND REPLACED WITHOUT DAMAGE.
- 4. SEISMIC NOTE: PROVIDE SEISMIC RESTRAINTS PER THE 2012 IBC CODE REQUIREMENTS AND THE AUTHORITY HAVING JURISDICTION. CONTRACTOR TO PROVIDE STAMPED AND SEALED DESIGN DRAWINGS AND CALCULATIONS FOR PIPING AND EQUIPMENT BELOW AND ABOVE ROOF DECK FOR SEISMIC RESTRAINTS FROM THE STATE OF NEVADA LICENSED PROFESSIONAL ENGINEER. SEE STRUCTURAL DRAWINGS FOR SEISMIC RATINGS. SEE DIV.1. FOR SEISMIC CONTROL AND SUBMITTAL REQUIREMENTS.

DEMOLITION NOTES

- 1. ALL WORK REQUIRED TO DEMOLISH THE EXISTING PLUMBING INSTALLATION AS INDICATED SHALL BE PROVIDED.
- 2. REMOVE ALL PIPING AND MISCELLANEOUS ITEMS, THAT INTERFERE WITH NEW CONSTRUCTION. EXTEND AND RECONNECT ANY INTERRUPTED SYSTEM TO OTHER EXISTING SYSTEMS WHICH REMAIN.
- 3. EXCEPT AS MAY BE SPECIFICALLY INDICATED OTHERWISE, ALL MATERIALS AND EQUIPMENT REMOVED FROM THE PROJECT SITE IN THE COURSE OF PERFORMING THE INDICATED WORK (AND NOT INDICATED TO BE REUSED) SHALL BE TREATED AS FOLLOWS:
 - a. ALL ABANDONED PIPES AND FITTINGS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. b. ALL PIPING SYSTEM NOT BEING RE-USED SHALL BE CUT-BACK ABOVE CEILING, BELOW FLOOR/GRADE, OR BEHIND WALLS, AND CAPPED IN AN APPROVED MANNER.
- 4. CONTRACTOR SHALL CLEAN ALL REMAINING ITEMS THAT ARE TO BE REUSED OR ARE TO REMAIN.
- 5. CONTRACTOR SHALL REMOVE ALL EXPOSED PIPES THAT ARE NOT IN USE.
- 6. CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS TO MAINTAIN ALL EXISTING PLUMBING SYSTEMS IN OPERATION DURING AND AFTER CONSTRUCTION.
- 7. ALL EXISTING SYSTEMS INCLUDING EQUIPMENT, FIXTURES, PIPES, AND OTHER ITEMS WHICH ARE NOT TO BE DEMOLISHED SHALL REMAIN IN SERVICE THROUGHOUT THE CONSTRUCTION PERIOD.
- 8. UNLESS OTHERWISE NOTED ON DRAWINGS, ALL EXISTING PIPES, AND OTHER PLUMBING SYSTEMS IN AREAS WHERE NEW WORK OCCURS SHALL BE REMOVED, EXCEPT WHEN SUCH ITEMS ARE REQUIRED TO MAINTAIN SERVICES TO OTHER AREAS. IN SUCH CASES, CONTRACTOR SHALL RELOCATE THESE ITEMS AND PROVIDE PIPES, AND OTHERS WHERE REQUIRED TO ACCOMMODATE THE NEW WORK.
- 9. CONTRACTOR SHALL ABANDON ANY EXISTING ITEM, ONLY WHEN SUCH ITEM IS CONCEALED BEHIND WALLS, ABOVE HARD CEILING OR BURIED BELOW GRADE, AND SUCH ITEM DOES NOT INTERFERE WITH NEW WORK, AND/OR NOT INDICATED IN THESE DRAWINGS FOR REMOVAL.
- 10. IF ANY INTERRUPTION OR/AND UTILITY SHUTDOWN ALLOWED, SHALL BE AS FOLLOWS: a. WITH WRITTEN OWNER PERMISSION 2 WEEKS IN ADVANCE OF INTERRUPTION.

b. UNDER WITNESS OF OWNER.

- c. MAXIMUM INTERRUPTION SHALL BE LESS THAN 4 HOURS. GENERALLY BUILDING PLUMBING SYSTEM INTERRUPTION WOULD BE ALLOWED ON EVENINGS, SATURDAYS, SUNDAYS, OR HOLIDAYS AT A DATE AND TIME CONVENIENT TO THE OWNER. CONTRACTOR SHALL VERIFY BEFORE CONNECTING, CUTTING OR CAPPING ANY PIPES SO AS NOT TO DISRUPT THE BUILDING OPERATIONS.
- 11. ALL PIPING, FITTINGS, EQUIPMENT AND ACCESSORIES SHALL BE REMOVED AS SHOWN IN THESE DRAWINGS. ABANDONED PIPES SHALL BE REMOVED COMPLETELY BACK TO THE SOURCE.
- 12. THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC. IT IS NOT THE INTENT TO SHOW ALL EXISTING OFFSETS AND ALL PIPES, FITTINGS AND APPURTENANCES THAT HAVE TO BE REMOVED, CAPPED OR REROUTED.
- 13. INFORMATION GIVEN ON THE DRAWINGS ABOUT EXISTING INSTALLATIONS HAS BEEN OBTAINED FROM THE EXISTING DRAWINGS AND FIELD INSPECTION, BUT CANNOT BE GUARANTEED ACCURATE IN ALL RESPECTS. VERIFY ALL SUCH INFORMATION BEFORE PROCEEDING WITH ANY NEW WORK THAT MAY BE AFFECTED.
- 14. INCLUDE AS PART OF THE CONTRACT ALL WORK REQUIRED TO PRODUCE THE INDICATED RESULT.

16. PATCH AND PAINT ALL SURFACES TO MATCH EXISTING CONDITIONS EXCEPT

15. THESE DEMOLITION NOTES REFER TO ALL PLUMBING SHEETS WHERE

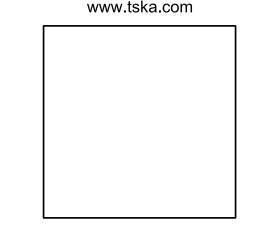
AS NOTED OTHERWISE IN THESE PLANS.

DEMOLITION WORK IS BEING CARRIED OUT.

PLUMBING DRAWING INDEX

- PO.OI LEGEND, NOTES AND INDEX
- P0.02 SCHEDULES
- P0.03 ENERGY COMPLIANCE REPORT POI.01 DEMOLITION FLOOR PLAN-LEVEL J PI.01 PHASED FLOOR PLANS
- P4.00 PHASED ROOF PLAN P5.01 DETAILS

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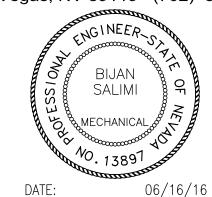


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REVISIONS DESCRIPTION A 08/05/16 ADDENDUM A

> LEGEND, NOTES **AND INDEX**

Date: 06/17/2016

P0.01

PLUMBING SCHEDULES

							P	LUME	BING FIXTU	RE SCHEDULE		
		-	.U.		. BRAN		1	_	TRAP			
WC-1	DESCRIPTION WATER CLOSET	W	CW 8	W	V	CW	HW _	TW _	SIZE (INCH) INTEGRAL	WALL HING FILISH VALVE 1.3 OPE DROVIDE WITH CARRIED ADA COMPLIANT		
		6	0	4		1½	7			WALL HUNG, FLUSH VALVE, 1.3 GPF. PROVIDE WITH CARRIER., ADA COMPLIANT.		
L-1	LAVATORY	1	1	2	1 <u>1</u>	4	4	_	1¼ × 1½	WALL HUNG,. WITH ELECTRONIC FAUCET AND MIXING VALVE. ADA COMPLIANT.		
S-1	SINK W/FAUCETS - HOLD "ABSL2"	2	2	1 <u>1</u> "	1 ½"	<u>3</u> " 4	<u>3</u> "	_	1½" X 1½"	PROVIDE WITH ACID WASTE AND VENT PIPING.		
S-2	SINK W/FAUCETS — PROCEDURE	2	1	1 <u>1</u> "	1 ½"	<u>3</u> " 4	<u>3</u> "	_	1½" X 1½"	PROVIDE WITH ACID WASTE AND VENT PIPING.		
S-3	SINK W/FAUCETS — PREP	2	1	1 <u>1</u> "	1 ½"	3" 4	3" 4	_	1½" X 1½"	PROVIDE WITH ACID WASTE AND VENT PIPING.		
SS-1	SERVICE SINK	3	3	3	2	<u>3</u> 4	<u>3</u> 4	_	3	FLOOR MOUNTED, WITH VACUUM BREAKER.		
SSH/EW-1	SAFETY SHOWER/EYEWASH	2	12	2"	1 <u>1</u> "	1 ½"	_	_	2" X 2"	PROVIDE W/S.O.V., SEE PLANS FOR PIPING, DIRECT EYEWASH DRAIN AND FLOOR DRAIN FOR SHOWER.		
FD-1	FLOOR DRAIN	2	_	2	1 ½	_	_	_	2	RESTROOM. PROVIDE WITH TRAP PRIMER CONNECTION.		
FD-2	FLOOR DRAIN	4	_	3	2	_	_	_	3	SAFETY SHOWERS. PROVIDE WITH TRAP PRIMER CONNECTION.		
FS-1	FLOOR SINK	2	_	2	1 ½	_	_	_	2 MECH. RM. PROVIDE WITH HALF GRATE AND TRAP PRIMER CONNECTION.			
FS-2	FLOOR SINK/RECEPTOR	4	_	4	2	_	_	_	4	FLOOR SINK WITH GRATE. PROVIDE WITH TRAP PRIMER CONNECTION.		
FS-3	FLOOR SINK/RECEPTOR	3	_	3	2	_	_	_	3	FLOOR SINK WITH GRATE. EXTERIOR INSTALLATION.		
HB-1	HOSE BIBB	_	5	_	_	3/4	3⁄4	_	_	RECESSED VALVE BOX WITH VACUUM BREAKER.		
HB-2	HOSE BIBB, FILL FAUCET	_	12	_	_	1 1 1 "	1 1 1 "	_	_	BEHAVIOR ROOMS. RECESSED VALVE BOX WITH VACUUM BREAKER, LESS COVER. SEE DRAWINGS FOR INSTALLATION DETAILS		
										PPP PRIMERITE (REFER TO DWGS. FOR LOCATIONS.)		
TP-1	TRAP PRIMER	_	_	_	_	_	_	_	_			
WHA-1	WATER HAMMER ARRESTOR	_	_	_	_	_	_	_	-			
RD-1	ROOF DRAIN	_	_	_	_	_	_	_	_	SEE PLANS FOR SIZE.		
OD-1	OVERFLOW DRAIN	_	_	_	_		_	_	_	SEE PLANS FOR SIZE. WITH 2" DAM.		
DN-1	DOWNSPOUT NOZZLE	_	_	_	_	_	_	_	_	SEE PLANS FOR SIZES AND LOCATIONS. INSTALL ON THE BUILDING'S EXTERIOR WALL.		

	UTILITY SCHEDULE											
	LOCATION	FIXTURE UNITS	G.P.M.	G.P.M. MAKE-UP (GPM) HVAC POOL		TOTAL MAIN SIZE(IN.)	PRESSURE (P.S.I.G.)	HARDNESS (GR/GAL)	REMARKS			
WATER	VIVARIUM BLDG	117	75 – –		75 2 1/2"	45 PSIG		SEE CIVIL DRAWINGS, BEYOND 5FT OF THE BUILDING.				
	TOTAL	. 117 75 –		_	75 2 1/2"							
	LOCATION	FIXTURE UNITS	BUILDING DRAIN(INCH)		BUILDING SEWER(INCH)	ON-SITE SEWER(INCH)	PUBLIC SEWER(INCH)	REMARKS				
SEWER	VIVARIUM BLDG	80	4		SEE PLANS	SEE PLANS	-	SEE CIVIL DRAWINGS, BEYOND 5FT OF THE BUILDING.				
	TOTAL	80		4		-						
	GAS METER LOCATION	SPACE HEATING (BOILER)	HVAC U ROOF	UNITS TOP	WATER HEATING	KILN/ETC.	FOOD SERVICE	SCIENCE ROOMS	TOTAL (CFH) (SEE NOTES)			
GAS (CFH) INPUT	NO GAS	-	_		ELEC.	_	-		_			

NATURAL GAS IS NOT USED IN THIS PROJECT.

STORM DRAINAGE SYSTEM FOR ROOF IS DESIGNED BASED ON MAXIMUM RAINFALL OF 2 INCHES PER HOUR.

	EQUIPMENT SCHEDULE											
SYMBOL	DESCRIPTION	SERVICE	LOCATION	MANUFACTURER &c MODEL	REMARKS							
EWH 1	WATER HEATER ELECTRIC	DOMESTIC	SEE PLANS	A.O.SMITH DURA-POWER MODEL: DSE-80	COMMERCIAL ELECTRIC WATER HEATER, NON SIMULTANEOUS DUAL ELEMENTS, 80 GALLON CAPACITY. 28" DIA. x 52½" HEIGHT. 900 LBS WEIGHT. 24KW, 208 VOLTS, 3 PHASE, 66.6 FLA. PROVIDE WITH TEMPERATURE GAGE. SET AT 125°F HOT WATER SUPPLY TEMPERATURE.							
DCP 1	CIRCULATING PUMP	DOMESTIC	SEE PLANS	B&G MODEL: "1AA"	CIRCULATING PUMP, 10GPM, 25FT HEAD, $\frac{1}{3}$ HP MOTOR, 115-230 VOLTS. SUPPORT PUMP INDEPENDENTLY PROVIDE AND INSTALL AQUASTAT.							
DET 1	EXPANSION TANK	DOMESTIC WATER HEATER	SEE PLANS	AMTROL MODEL: ST-42V-C	EXPANSION TANK W/ POLYPROPYLENE LINER, BUTYL RUBBER DIAPHRAGM, STAINLESS—STEEL CONNECTION. FOR USE WITH POTABLE WATER SYSTEM W/ MAX. OPERATING TEMPERATURE OF 200°F AND PRESSURE OF 125 PSIG. 17.5 GALLON TANK — 3" CONNECTION, 16"DIA.X24.5" HEIGHT, 200 LBS. WEIGHT.							

PLUMBING FIXTURE SPECIFICATION (SEE ARCHITECTURAL DRAWINGS FOR MOUNTING ELEVATION OF ALL PLUMBING FIXTURES.)

DESCRIPTION

WATER CLOSET (MARK WC-1):

ZURN NO. "Z5615-BWL" ECO VANTAGE, WALL HUNG, ELONGATED BOWL, WHITE VITREOUS CHINA TOILET WITH SOLID RING YK SUPPORT BRACKET, $1\frac{1}{2}$ "TOP SPUD BOWL, ZURN ZTR6200EV, 1.28 G.P.F. SENSOR OPERATED FLUSH VALVE AND Z5955SS-EL OPEN FRONT, WHITE SEAT. ADA COMPLIANT.

LAVATORY (MARK L-1):

ZURN NO. "Z5351" 19" X 17", WALL HUNG, WHITE VITREOUS CHINA, WITH WALL SU[PPORT AND HANGER PLATE. ZURN AQUA-FIT BATTERY POWERED FAUCET #Z6950-XL-S. PROVIDE AND INSTALL "ZW3870XLT" AQUA-GARD THERMOSTATIC MIXING VALVE, WITH Z8800 $\frac{1}{2}$ " I.P.S. FLEXIBLE SUPPLIES WITH LOOSE KEY STOPS, ZURN Z8743-PC STRAINER WITH 14"TAILPIECE."ADA COMPLIANT".

SINK (MARK S-1): "BY OTHERS", SEE DIV. 11 SPECIFICATIONS.

SINK (MARK S-2):

"BY OTHERS", SEE DIV. 11 SPECIFICATIONS.

SINK (MARK S-3): "BY OTHERS", SEE DIV. 11 SPECIFICATIONS.

SERVICE SINK (MARK SS-1): UNDERMOUNT GROUP "B-33213", 16GAUGE, CORNER FLOOR MOP SINK, 30"SQUARE TYPE, 8" HEIGHT WITH STAINLESS STEEL STRAINER, 3" I.P.S. DRAIN, CHICAGO "540-LD-897S-WXFCP" FAUCET WITH VACUUM BREAKER SPOUT, 3" HOSE THREAD OUTLET, PAIL HOOK WITH WALL SUPPORT, WXF STRAIGHT SHANK WITH FLANGE, 8" CENTERS, #369 HANDLES.

SAFETY SHOWER/EYEWASH (MARK SSH/EW-1): "BY OTHERS", SEE DIV. 11 SPECIFICATIONS. 1"WATER CONNECTION AND 2" FOR EYEWASH DRAIN.

FLOOR DRAIN (MARK FD-1):

ZURN FD2321-NH2 CAST IRON DRAIN, FLASHING COLLAR WITH 5" NICKEL-BRONZE WITH TRAP PRIMER CONNECTIONS.

FLOOR DRAIN (MARK FD-2):

ZURN FD2330-PV3-P-Y HEAVY DUTY, ADJUSTABLE, PVC BODY, WITH STEEL THREADED INSERTS AND 8" HEAVY DUTY FULL GRATE, AND SEDIMENT BUCKET. PROVIDE WITH TRAP PRIMER CONNECTIONS.

FLOOR SINK (MARK FS-1):

JR SMITH FIG. NO. 3100Y 2"NH. CAST IRON DRAIN 6"DEEP WITH NICKEL BRONZE RIM WITH HALF GRATE, WITH TRAP PRIMER CONNECTION AND DOME STRAINER.

FLOOR RECEPTOR (MARK FS-2):

JOSAM 49420 SERIES, 16"SQUAREX12"DEEP, CAST IRON BODY RECEPTOR, WITH ACID RESISTING INTERIOR, HEAVY DUTY $\frac{1}{4}$ " SQUARE GRATE, AND INTERIOR BOTTOM DOME STRAINER. PROVIDE WITH TRAP PRIMER CONNECTIONS. 4"PIPE SIZE (49424).

FLOOR RECEPTOR (MARK FS-3):

JOSAM 49420 SERIES, 16"SQUAREX12"DEEP, CAST IRON BODY RECEPTOR, WITH ACID RESISTING INTERIOR, HEAVY DUTY 4" SQUARE GRATE FOR EXTERIOR INSTALLATION. PROVIDE WITH INTERIOR BOTTOM DOME STRAINER. 3"PIPE SIZE (49423).

HOSE BIBB (MARK HB-1): ACORN SS RECESSED DUAL TEMP. (COLD AND HOT) VALVE BOX, NO. "8156", 3"HOSE CONNECTIONS, WITH VACUUM BREAKERS, AND WHEEL HANDLES.

HOSE BIBB (MARK HB-2):

ACORN SS RECESSED HOT AND COLD VALVE BOX, NO. "8156", LESS COVER, $\frac{3}{4}$ "HOSE CONNECTION, WITH VACUUM BREAKER, AND WHEEL HANDLE.

TRAP PRIMER (MARK TP-1):

PPP PRIMERITE TRAP PRIMER, "PR-500". REFER TO DRAWINGS FOR LOCATIONS.

WATER HAMMER ARRESTOR (MARK WHA-1): JAY R. SMITH #5005- $\frac{3}{4}$ ", "A" FOR 1-11 FIXTURE UNITS/ JAY R. SMITH #5010-1", "B" FOR 12-32 FIXTURE UNITS JAY R. SMITH #5020-1", "C" FOR 33-60 FIXTURE UNITS.

ROOF DRAIN (MARK RD-1):

J.R. SMITH NO. 1010-Y-C DRAIN WITH DUCO CAST IRON BODY, CAST ALUMINUM DOME AND UNDER

ZURN NO. Z199, ALL NICKEL BRONZE BODY, WITH WALL FLANGE AND OUTLET NOZZLE.

OVERFLOW DRAIN (MARK OD-1):

J.R. SMITH NO. 1080-Y-C DRÁIN WITH DUCO CAST IRON BODY, CAST ALUMINUM DOME AND UNDER DECK CLAMP. FOR WOOD DECKS USE SUMP RECEIVER. DOWNSPOUT NOZZLE (MARK DN-1):

POTABLE WATER PIPE SIZING CALCULATIONS

COLD/HOT WATER PIPE SIZING TABLE

(A) PRESSURE AVAILABLE: MAXIMUM 45 PSIG, AT BUILDING.

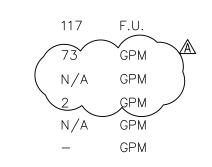
TOTAL

(B) WATER HARDNESS: NA

(C) TOTAL FIXTURE UNITS: (FLUSH VALVE)

(D) WATER DEMAND: 1. DOMESTIC

2. IRRIGATION NIGHT USE ONLY A/C EQUIPMENT (RO) 4. MISC. MAKE UP/ EQUIPMENT 5. MISC.



75 GPM

PRESSURE AVAILABLE: (PSIG, MIN. CALCULATED) +: 35 PSIG RESIDUAL PRESSURE (PSI) -: <u>25</u> PSI LOSS DUE TO ELEVATION (PSI) -: <u>3</u> PSI -:<u>N/A</u> PSI LOSS THRU METER (PSI) -:<u>N/A</u> PSI LOSS THRU PRV (PSI) LOSS THRU BACKFLOW PREVENTER (PSI) -:<u>N/A</u> PSI PRESSURE AVAILABLE FOR FRICTION LOSS (PSI) : ____7__ PSI

FRICTION LOSS PER 100FT. $\underline{7}$ *100 / $\underline{200}$ = $\underline{3.5}$ PSI PER 100 FT

PIPE SIZES BASED ON "L" COPPER, @ 3.0 PSI/100 FT., 10 FPS MAXIMUM FIXTURE LIMITS FIXTURE LIMITS

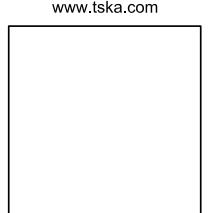
		FIXIUR	E UNITS				FIXTURE	<u> UNITS</u>	
		<u>FT.</u>	FV.	<u>GPM</u>			<u>FT.</u>	<u>FV.</u>	<u>GPM</u>
<u>3</u> "	=	5	_	4.5	1 <u>1</u> "	=	47	10	28
1"	=	13	_	10	2"	=	171	74	60
1 <u>1</u> "	=	25	_	17.5	2 <u>1</u> "	=	401	263	105

FQUIPMENT "SUPPLIED BY OTHERS" SCHEDULE

	EQUIPMI (FOR REFERENCE (IN I DNLY, SI	SUPI EE ARCH	TLIED E H. DWGS AN	ND DIV. 11 SPEC FOR EXACT INFORMATION)
MARK	DESCRIPTION	CO2	02	EXH. (CFM)	REMARKS
1	FUME HOOD	3" 4	_	SEE NOTE 3.	1. SEE DIV. 11 SPEC. 2. SEE PLBG. PLAN FOR PIPING. 3. SEE MECH. DWGS. FOR EXHAUST DUCTWORK.
2	CO2 CYLINDERS AND MANIFOLD	3" 4	-	_	1. SEE DIV. 11 SPEC. 2. SEE PLBG. PLAN FOR PIPING.
3	OXYGEN CYLINDERS AND MANIFOLD	_	<u>3</u> "	_	1. SEE DIV. 11 SPEC. 2. SEE PLBG. PLAN FOR PIPING.
S-1	SINK-HOLD "ABSL2"	Ι	_	_	1. SEE DIV. 11 SPEC. "SK-1" 2. SEE PLBG. PLAN FOR PIPING. 3. SEE SCHEDULE FOR ROUGH-INS.
S-2	SINK-PROCEDURE	ı	I	_	1. SEE DIV. 11 SPEC. "SK-2" 2. SEE PLBG. PLAN FOR PIPING. 3. SEE SCHEDULE FOR ROUGH-INS.
S-3	SINK-PREP	1	_	_	1. SEE DIV. 11 SPEC. "SK-3" 2. SEE PLBG. PLAN FOR PIPING. 3. SEE SCHEDULE FOR ROUGH-INS.
SSH/EW-1 SAFETY SHOWER/ EYEWASH		ı	-	_	1. SEE DIV. 11 SPEC. 2. SEE PLBG. PLAN FOR PIPING. 3. SEE SCHEDULE FOR ROUGH—INS.



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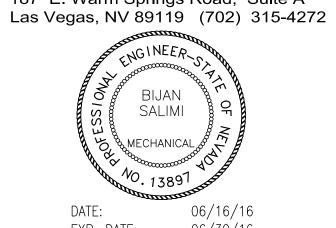


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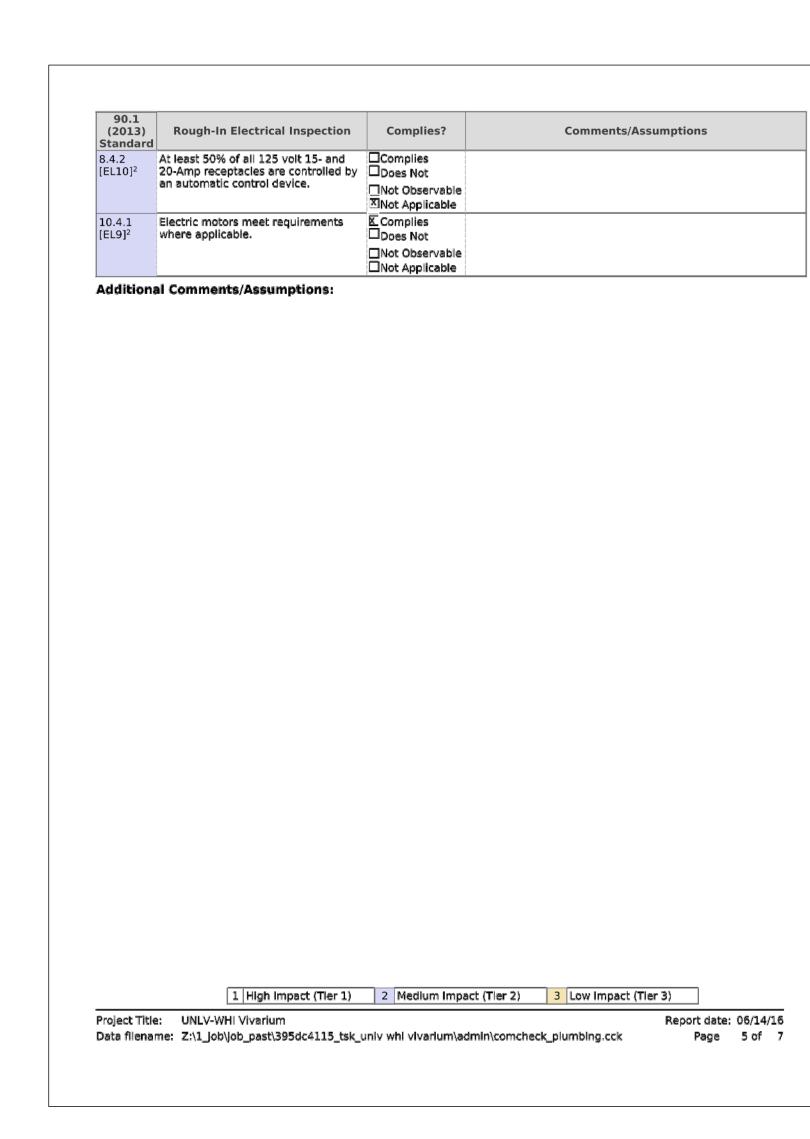
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REV	DATE	DESCRIPTION
Α	08/05/16	ADDENDUM A

Sheet Title **SCHEDULES**

Date: 06/17/2016

ENERGY COMPLIANCE REPORT

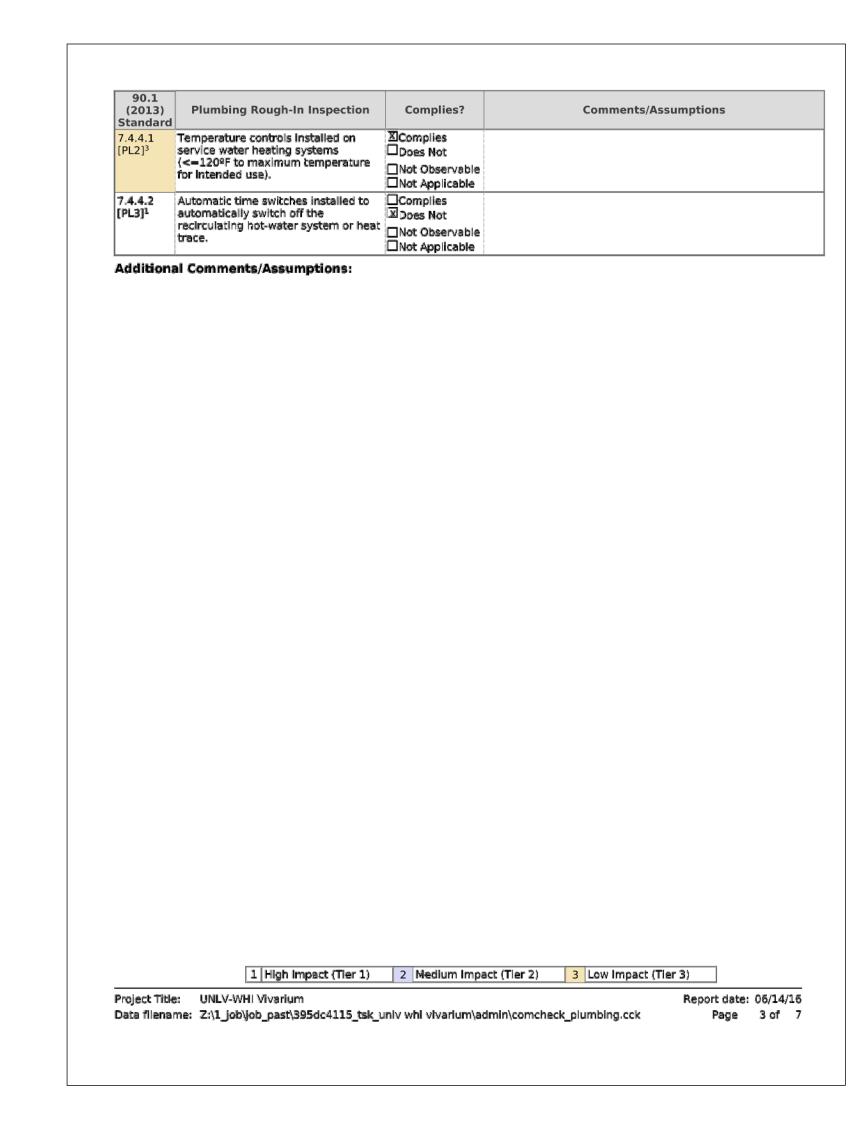


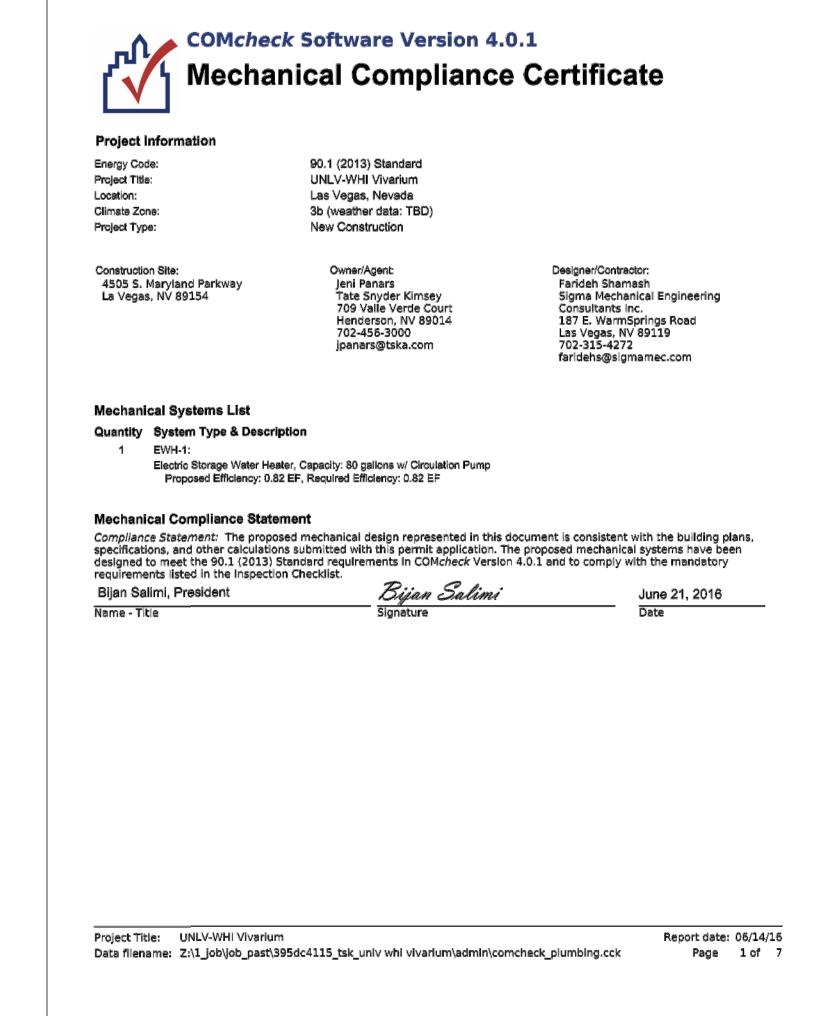
Project Title: UNLV-WHI Vivarium

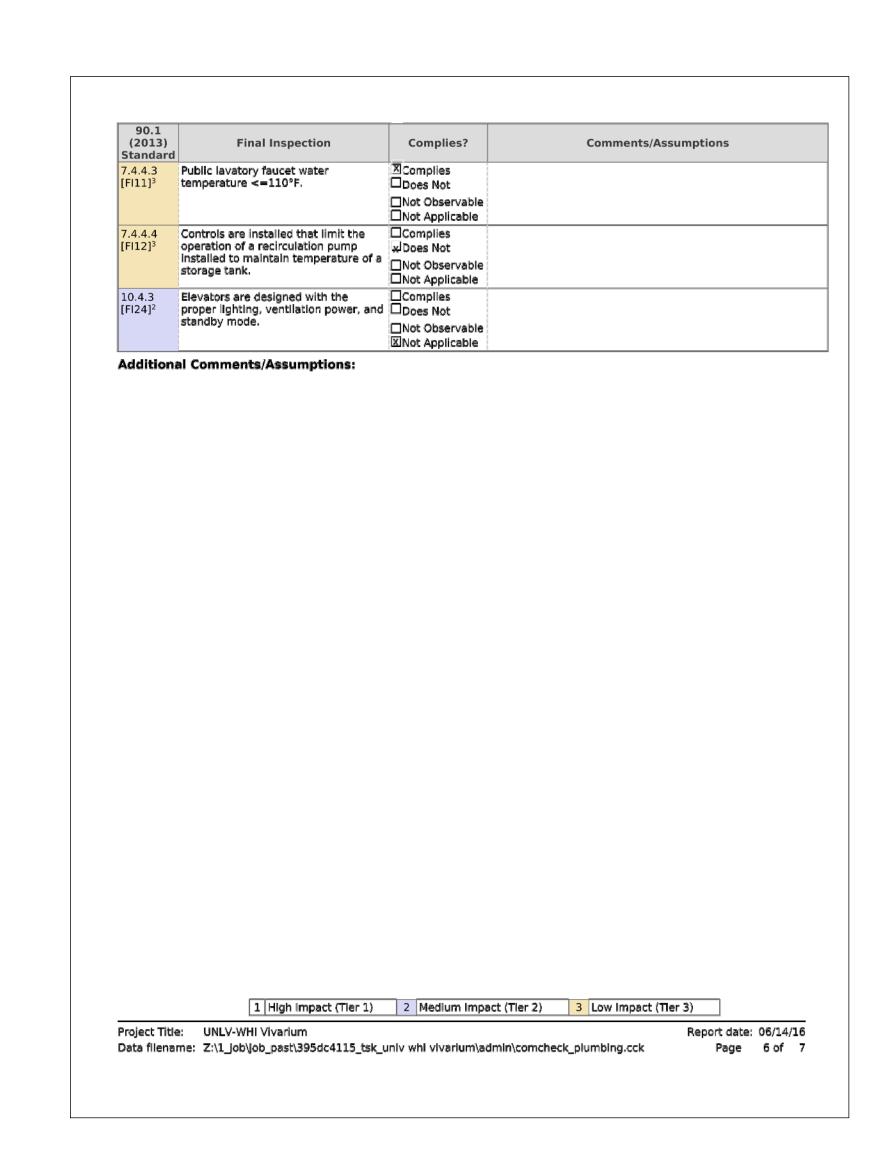
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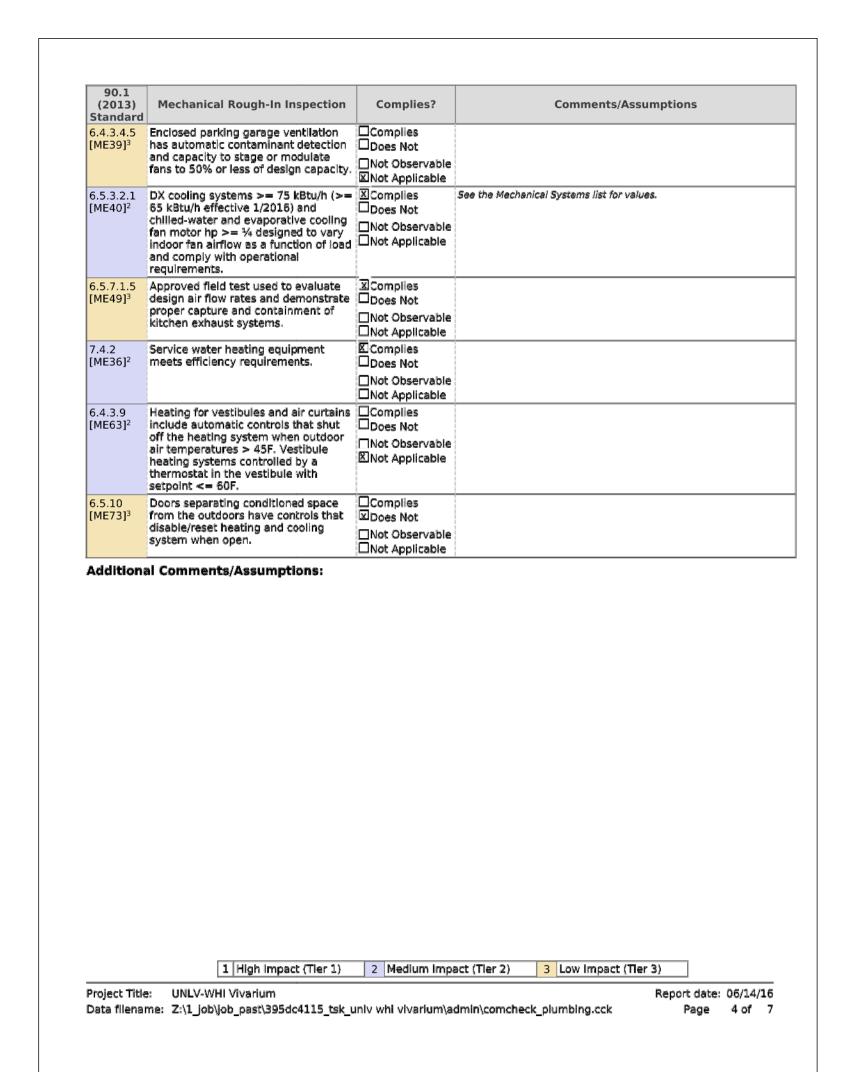
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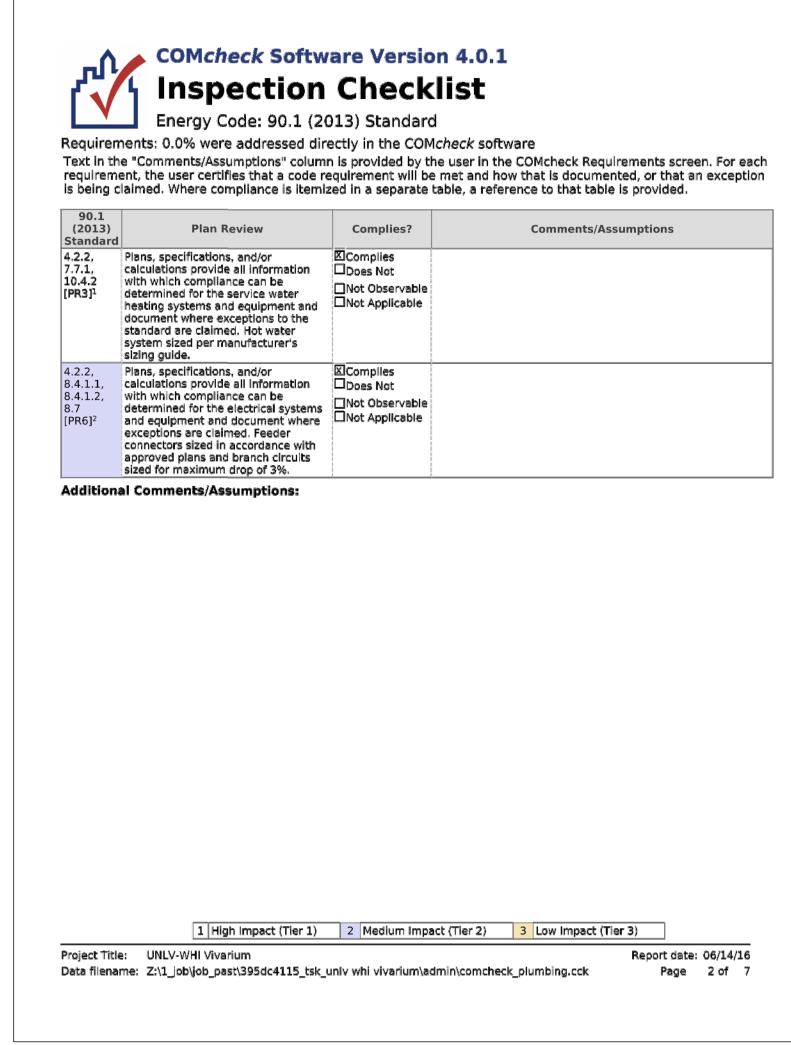
Page 7 of 7

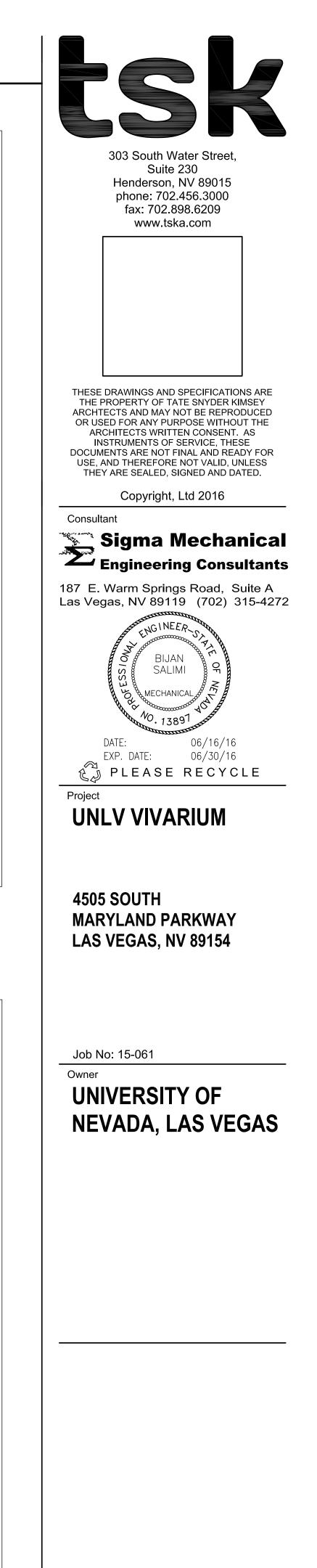












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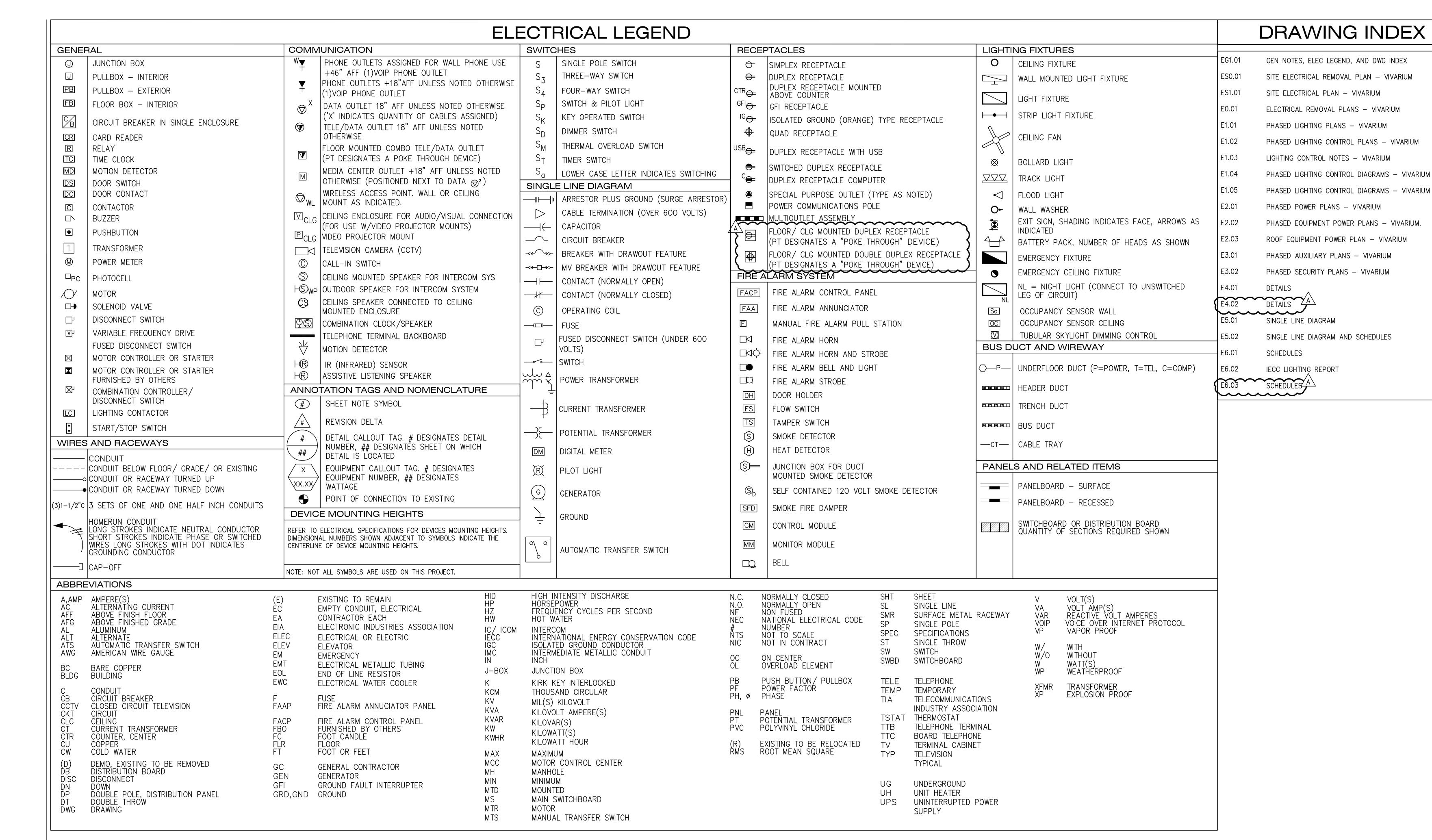
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Α	08/05/16	ADDENDUM A

Sheet Title

COMPLIANCE REPORT

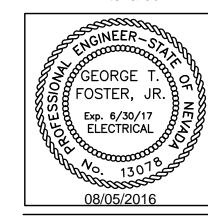
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DRAWING INDEX

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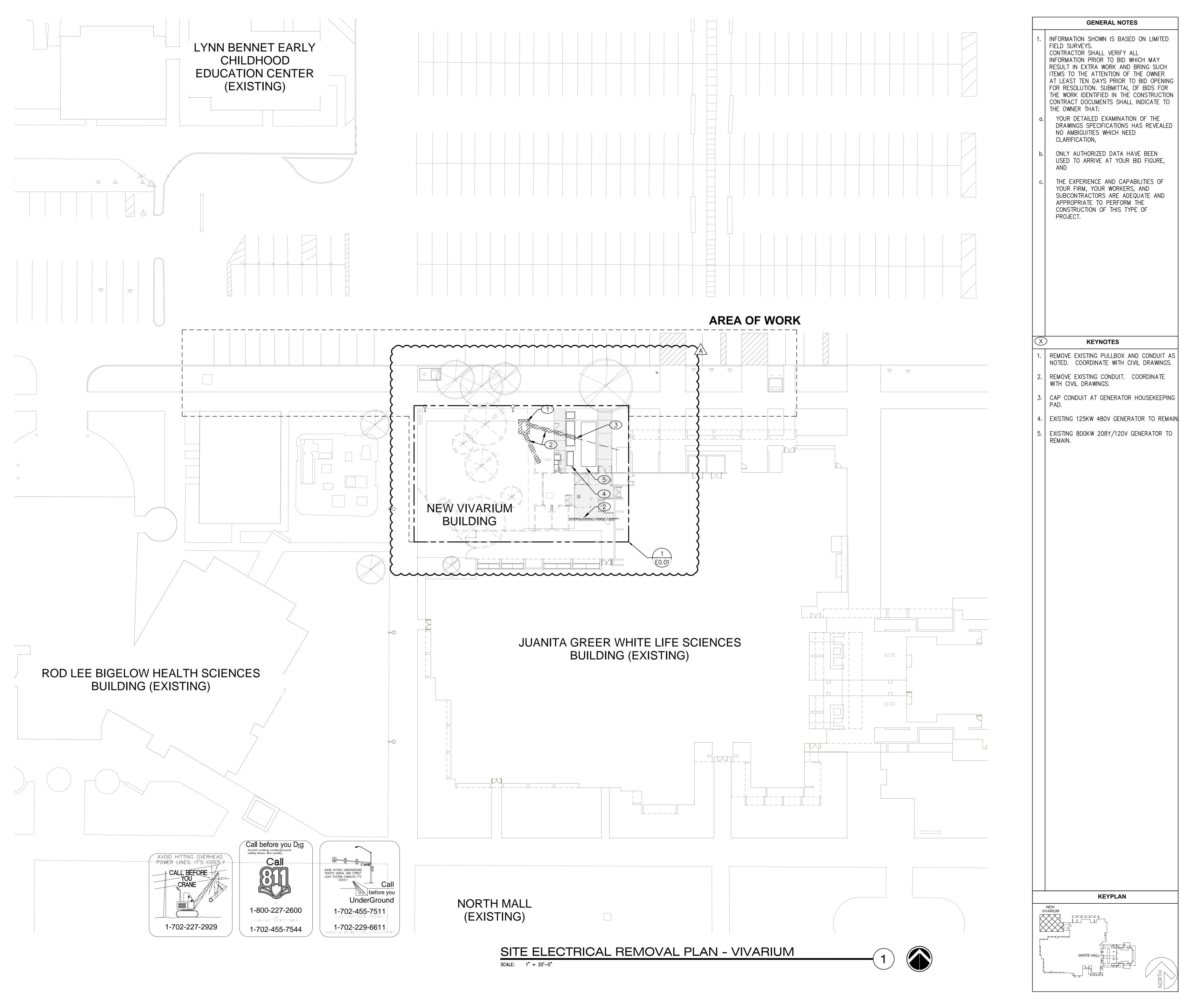
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REV DATE DESCRIPTION A 08/05/16 ADDENDUM A

> **GEN NOTES, ELEC** LEGEND, AND DWG **INDEX**

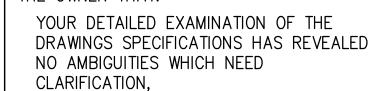
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- ONLY AUTHORIZED DATA HAVE BEEN USED TO ARRIVE AT YOUR BID FIGURE,
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KEYNOTES

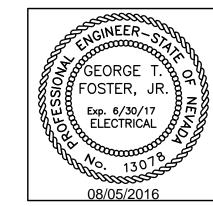
REMOVE EXISTING PULLBOX AND CONDUIT AS NOTED. COORDINATE WITH CIVIL DRAWINGS.

REMOVE EXISTING CONDUIT. COORDINATE

5. EXISTING 800KW 208Y/120V GENERATOR TO REMAIN.

WITH CIVIL DRAWINGS.

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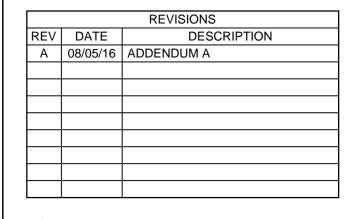
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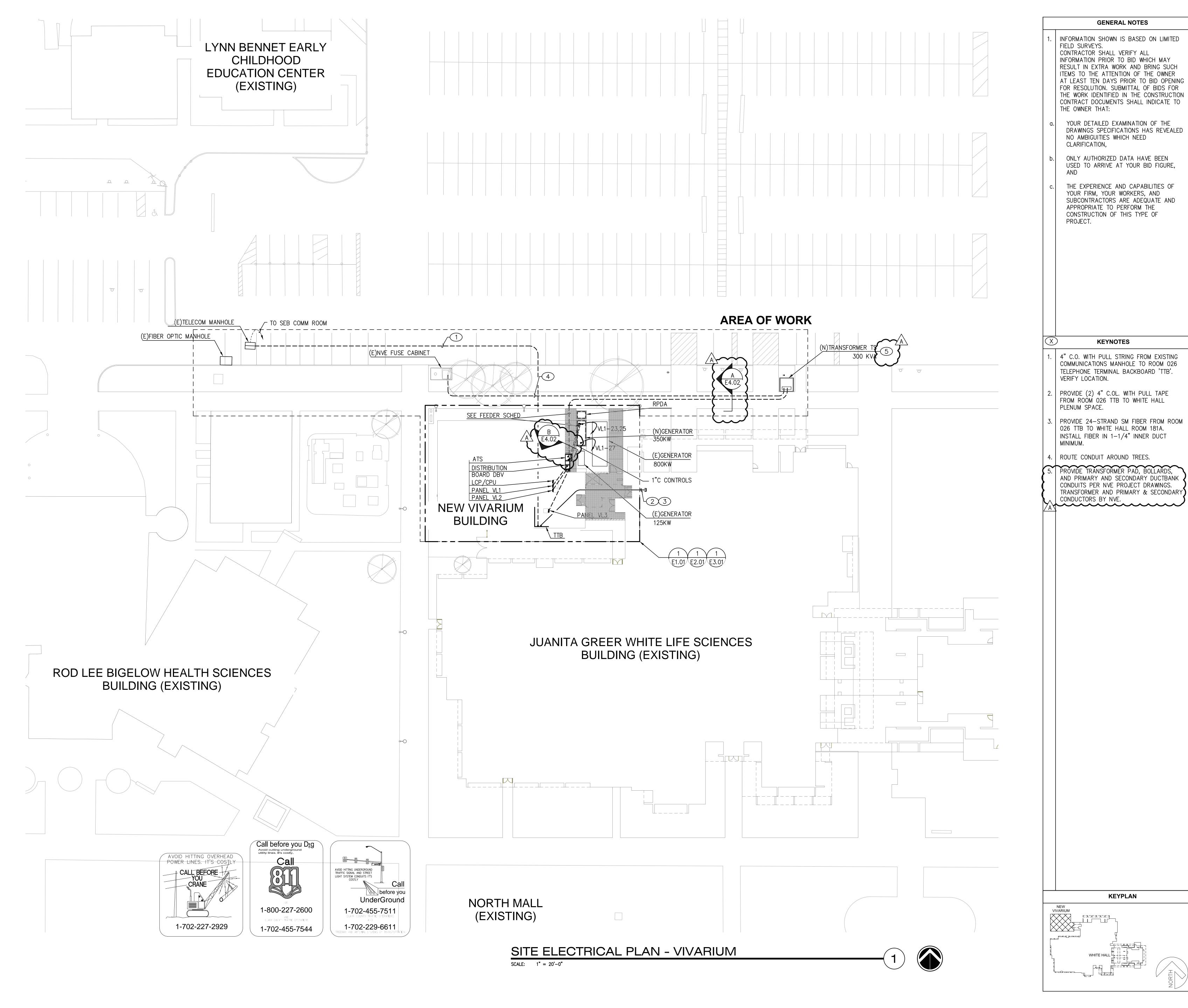
SITE ELECTRICAL **REMOVAL PLAN-VIVARIUM**

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Sheet No:

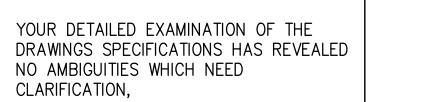
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KEYNOTES

4" C.O. WITH PULL STRING FROM EXISTING COMMUNICATIONS MANHOLE TO ROOM 026

TELEPHONE TERMINAL BACKBOARD 'TTB'.

FROM ROOM 026 TTB TO WHITE HALL

INSTALL FIBER IN 1-1/4" INNER DUCT

AND PRIMARY AND SECONDARY DUCTBANK

ROUTE CONDUIT AROUND TREES.

VERIFY LOCATION.

PLENUM SPACE.



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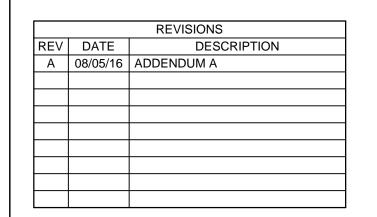
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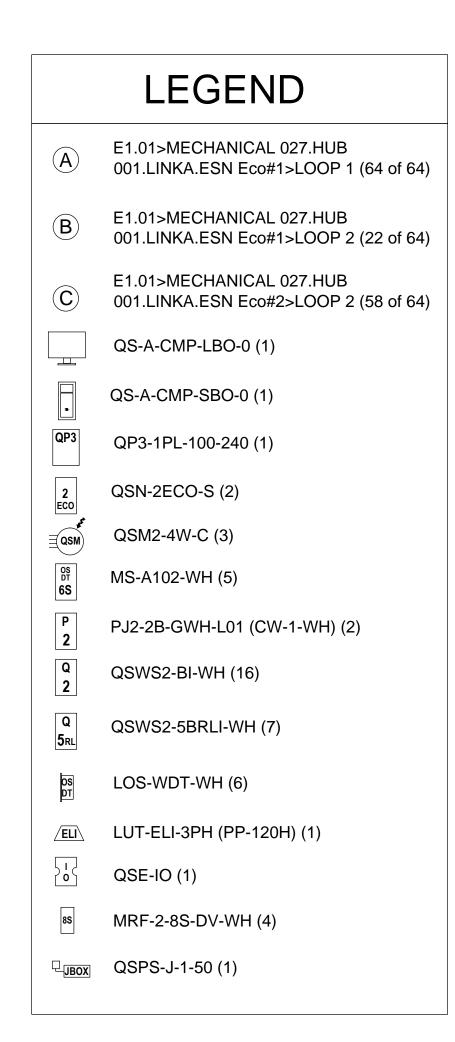


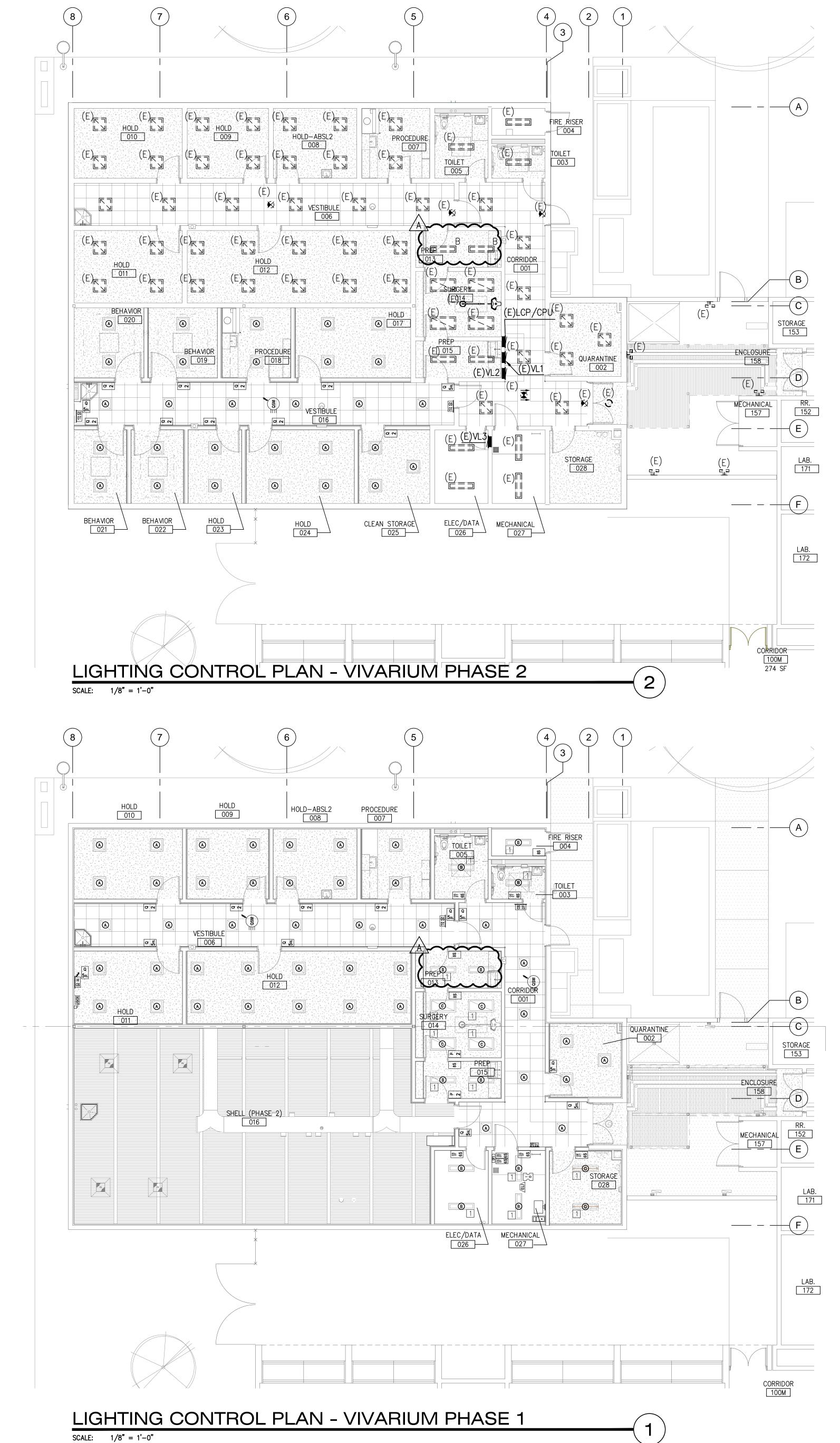
SITE ELECTRICAL **PLAN- VIVARIUM**

Date: 06/17/2016 Sheet No:

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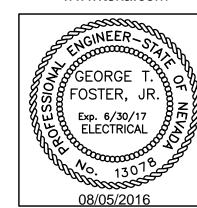








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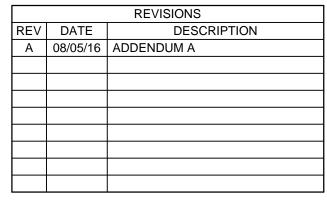
UNLV VIVARIUM

4505 SOUTH MARYLAND PARKWAY LAS VEGAS, NV 89154

Job No: 15-061

UNIVERSITY OF NEVADA, LAS VEGAS

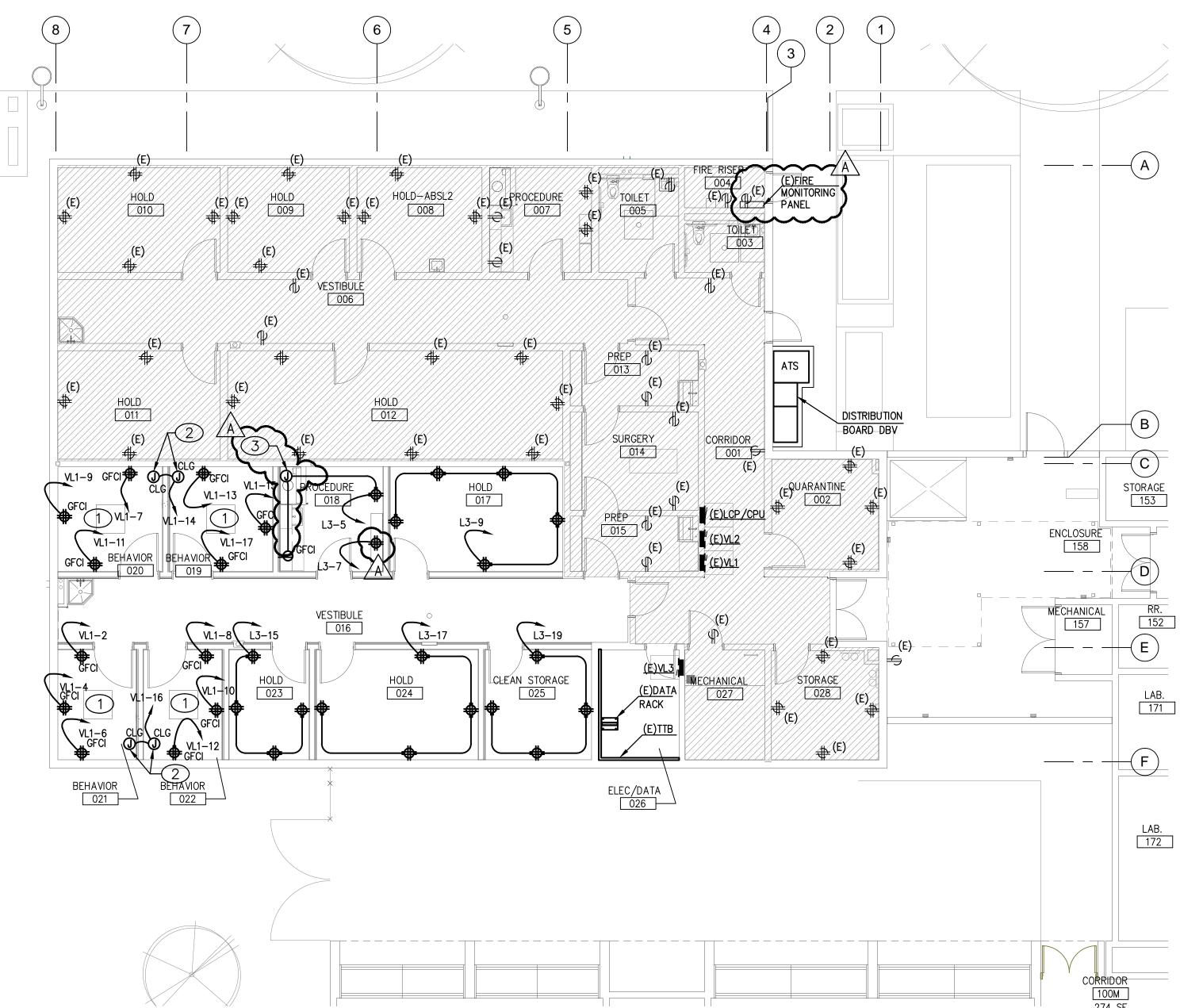
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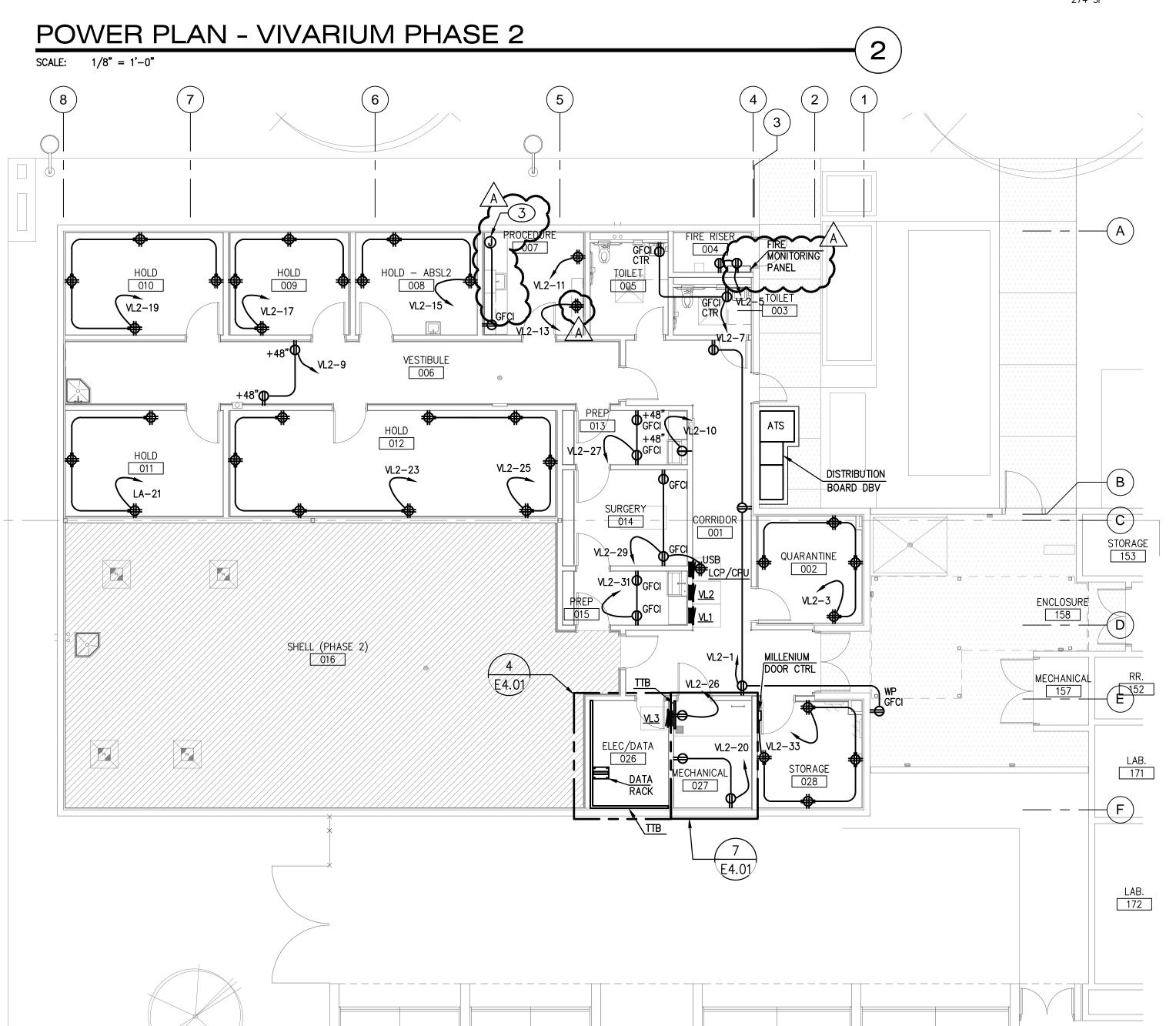


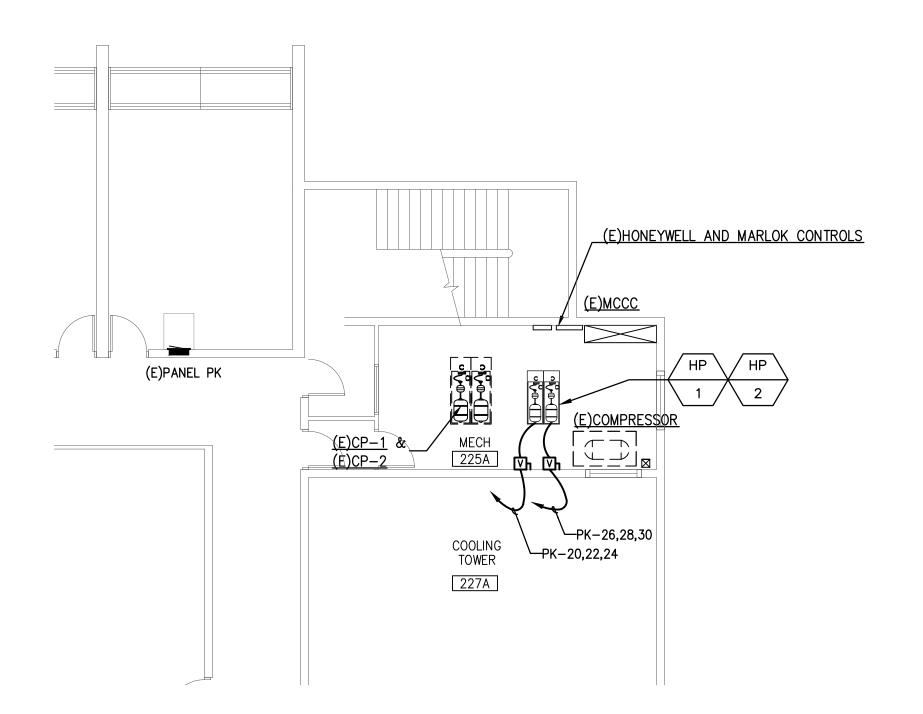
PHASED LIGHTING
CONTROL PLANS VIVARIUM

Date: 06/17/2016 Sheet No:

E1.02







POWER PLAN - VIVARIUM

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

MECHANICAL ROOM 225

GENERAL NOTES

INFORMATION SHOWN IS BASED ON LIMITED FIELD SURVEYS.
CONTRACTOR SHALL VERIFY ALL INFORMATION PRIOR TO BID WHICH MAY RESULT IN EXTRA WORK AND BRING SUCH ITEMS TO THE ATTENTION OF THE OWNER AT LEAST TEN DAYS PRIOR TO BID OPENING FOR RESOLUTION. SUBMITTAL OF BIDS FOR THE WORK IDENTIFIED IN THE CONSTRUCTION CONTRACT DOCUMENTS SHALL INDICATE TO THE OWNER THAT:

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ONLY AUTHORIZED DATA HAVE BEEN USED TO ARRIVE AT YOUR BID FIGURE, AND

THE EXPERIENCE AND CAPABILITIES OF YOUR FIRM, YOUR WORKERS, AND SUBCONTRACTORS ARE ADEQUATE AND APPROPRIATE TO PERFORM THE CONSTRUCTION OF THIS TYPE OF PROJECT.

2. ALL CONDUIT PENETRATIONS AND FIXTURES SHALL BE VERMIN PROOF.

VERIFY ALL DEVICE MOUNTING HEIGHTS
PRIOR TO ROUGHING IN. IN HOLDING,
QUARANTINE AND BEHAVIOR ROOMS, MOUNT
120V, 20A, QUADRUPLEX OUTLETS AT WALLS
6'-0" ABOVE FLOOR, UNLESS NOTED
OTHERWISE.

KEYNOTES

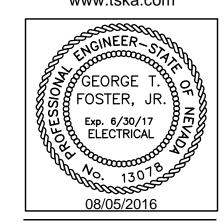
ALL RECEPTACLES IN THIS ROOM SHALL BE WP, GFCI AND ISOLATED GROUND.

CEILING MOUNTED JUNCTION BOX FOR CAMERA. VERIFY EXACT LOCATION WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH—IN.

3. JUNCTION BOX FOR FUME HOOD.
COORDINATE LOCATION AND REQUIREMENTS
WITH HOOD CONTRACTOR.

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REV	DATE	DESCRIPTION								
Α	08/05/16	ADDENDUM A								

PHASED POWER PLANS
- VIVARIUM

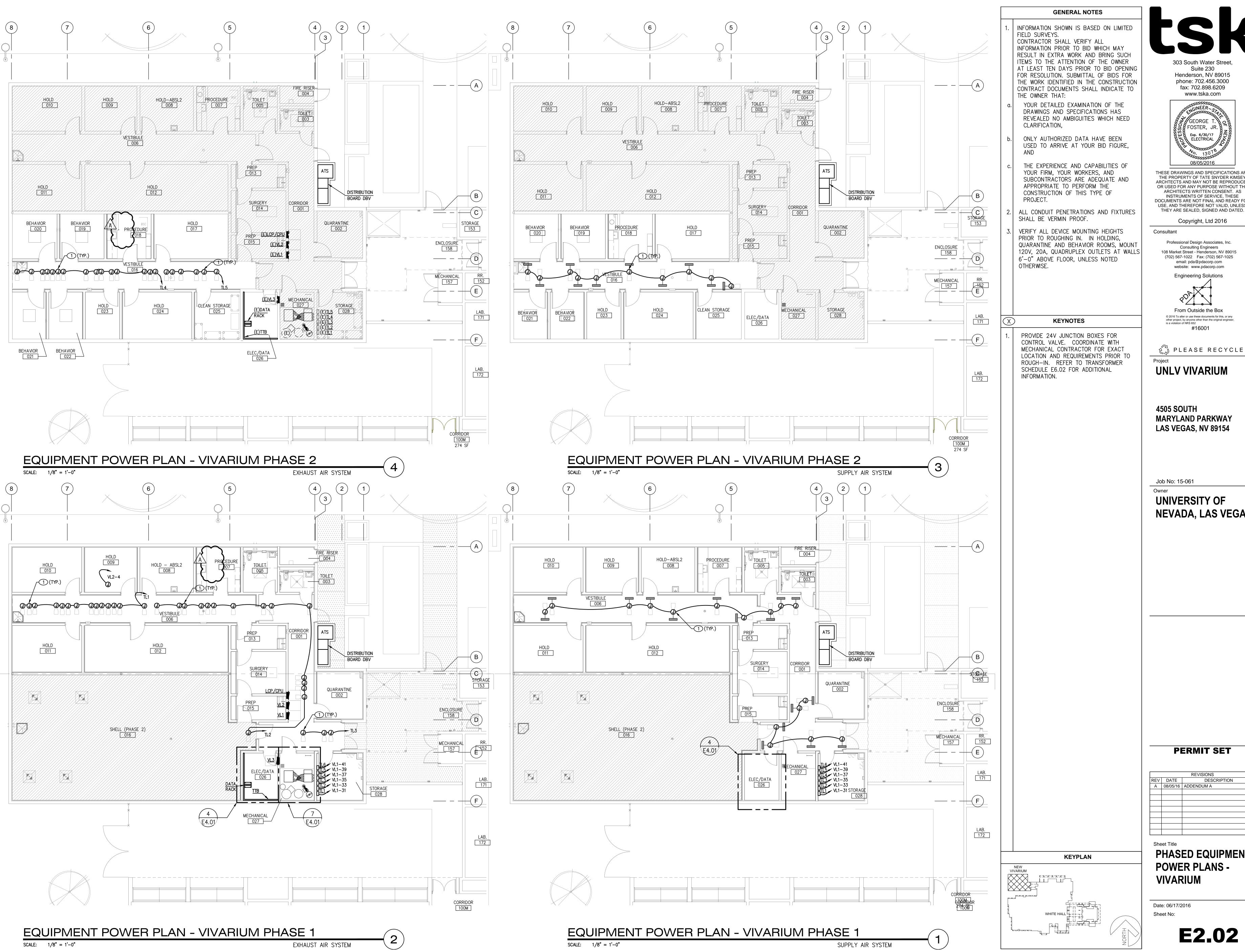
Date: 06/17/2016 Sheet No:

E2.01

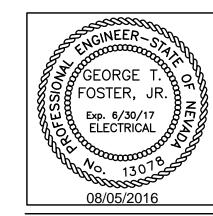
POWER PLAN - VIVARIUM PHASE 1

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

WHITE HALL



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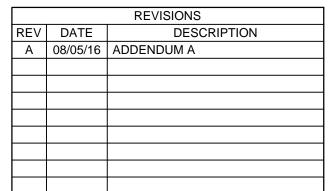
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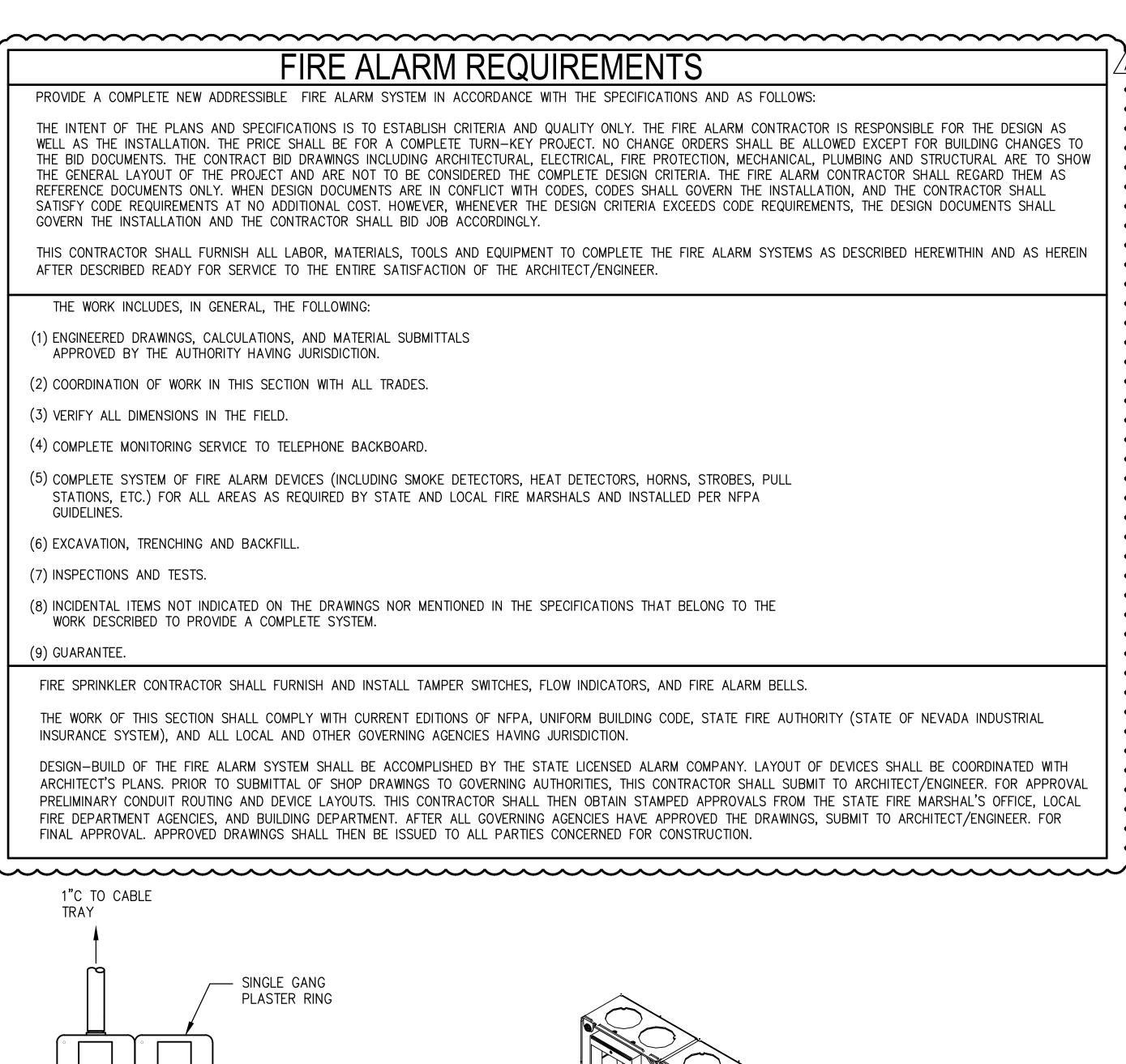
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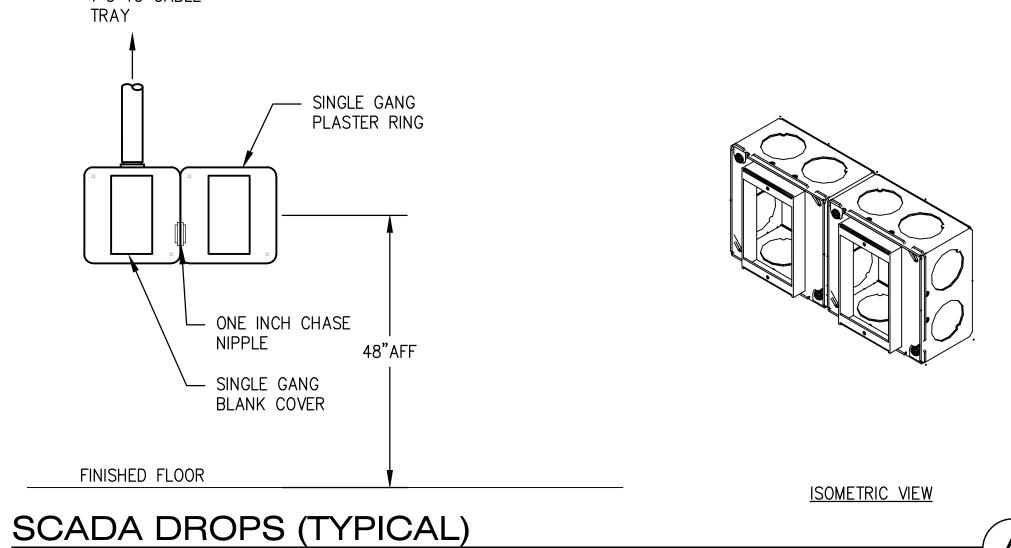
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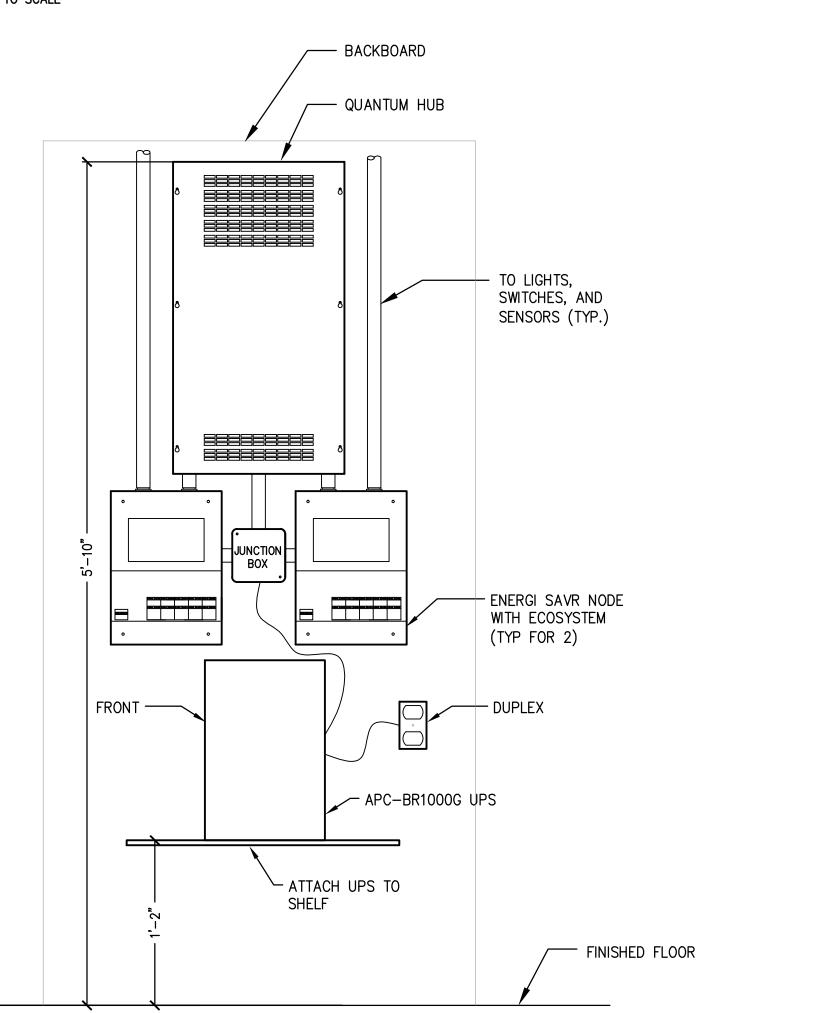
PHASED EQUIPMENT **POWER PLANS -VIVARIUM**

E2.02





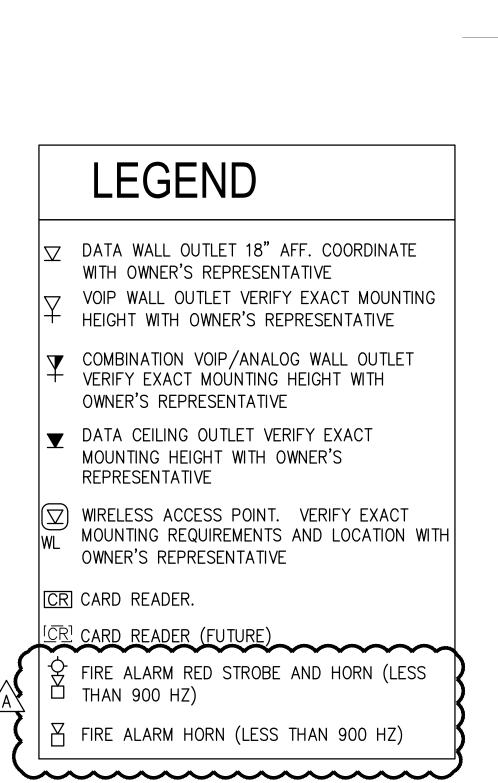
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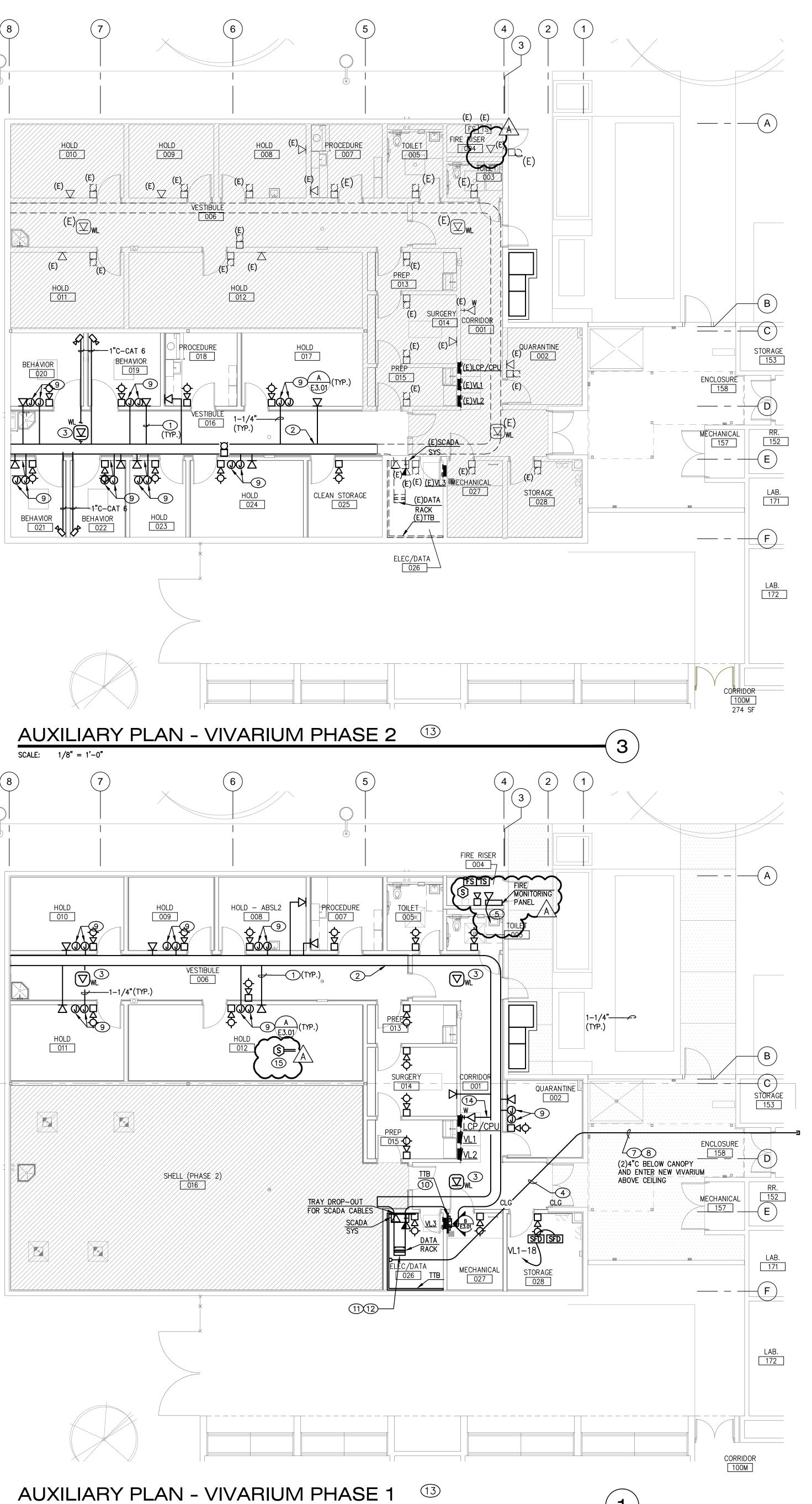
LUTRON CONTROL PANEL **ELEVATION**

SCALE: NOT TO SCALE REFER TO SHEET E1.02; E1.03; E1.04; E1.05

AND E4.01 FOR ADDITIONAL INFORMATION



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



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ALL CONDUIT PENETRATIONS AND FIXTURES SHALL BE VARMIN PROOF

3. FIRE ALARM CHIME STROBE LESS THAN

l 900 MEGAHERTZ. I. VERIFY ALL DEVICE MOUNTING HEIGHTS

. I ALL DATA OUTLET CABLING SHALL BE CAT-6A.

PRIOR TO ROUGHING IN.

KEYNOTES

1"C TO CABLE TRAY. PROVIDE CAT-6A CABLE FROM OUTLET TO ROOM 026 DATA RACK. REFER TO DETAIL 2/E4.01 FOR ADDITIONAL INFORMATION.

2. 18"x4" DEEP CENTER SUPPORT OPEN LADDER CABLE TRAY.

WIRELESS ACCESS POINT (2)CAT-6A CABLES FROM EACH LOCATION TO DATA RACK IN ROOM 026.

. DO NOT ROUTE THIS CONDUIT THROUGH FIRE

RATED ROOM 028. 3/4"C TO CABLE TRAY FOR FIRE PANEL

MONITORING.

S. FIRE ALARM STROBES TO FLASH RED.

PROVIDE (1) 24 STRANDS OF SINGLE-MODE FIBER FROM ROOM 026 TO WHITE HALL ROOM 181 IN ONE OF TWO 4"CONDUITS.

PROVIDE (1)25 PAIR TELEPHONE CABLE FROM ROOM 026 TO WHITE HALL ROOM 181 IN ONE OF TWO 4"CONDUITS.

9. IN EACH BEHAVIOR, HOLDING AND QUARANTINE ROOM, ALONG THE WALL ADJACENT TO THE CORRIDOR, PROVIDE(1)1 CONDUIT FROM TWO INDIVIDUAL 4-S DEEP BOXES (WITH SINGLE GANG RINGS SEPARATED BY 2 INCHES), 48" AFF, UP TO CABLE TRAY FOR SCADA SYSTEM. SEE DETAIL-A/E3.01.

10. 3'x8'x3/4" FIRERATED BACKBOARD.

. DIV. 16 CONTRACTOR SHALL INSTALL CAT 6A CABLE BETWEEN THE EV VALVE ON ROOF DOWN INTO DATA ROOM. THE CAT 6A CABLE INSTALLATION FOR THE ENERGY VALVE CONTROL MODULE SHALL BE REVIEWED AND APPROVED (CERTIFIED) BY THE UNLY OFFICE OF INFORMATION TECHNOLOGY PRIOR TO CONNECTION TO THE DATA NETWORK.

12. PROVIDE A 750VA RACK-MOUNTED UPS FOR JACE EQUIPMENT.

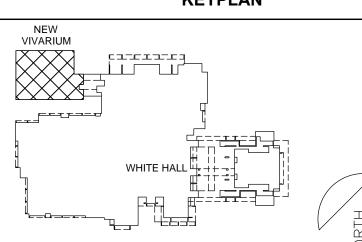
3. PROVIDE A COMPLETE CODE COMPLIANT DESIGN/BUILD FIRE ALARM SYSTEM THROUGHOUT THE ENTIRE BUILDING. CONNECT ALARM, TROUBLE, AND SUPERVISORY FORM-C CONTACTS FROM THE FACP TO THE BAS/JACE FOR CAMPUS BAS MONITORING.

14. ROUTE ONE CAT-6A TO LUTRON CONTROL PANEL IN ROOM 027.

15. VERIFY DUCT SMOKE DETECTOR LOCATION.

NOTE: LOW VOLTAGE INSTALLATION SHALL MEET UNLV CAMPUS WIRING STANDARDS DATED AUGUST 26, 2015

KEYPLAN



PLANS - VIVARIUM

Sheet No:

303 South Water Street Suite 230 Henderson, NV 89015 phone: 702.456.3000 fax: 702.898.6209 www.tska.com ENGINEER ...

SGEORGE FOSTER, JR. Exp. 6/30/17 L ELECTRICAL

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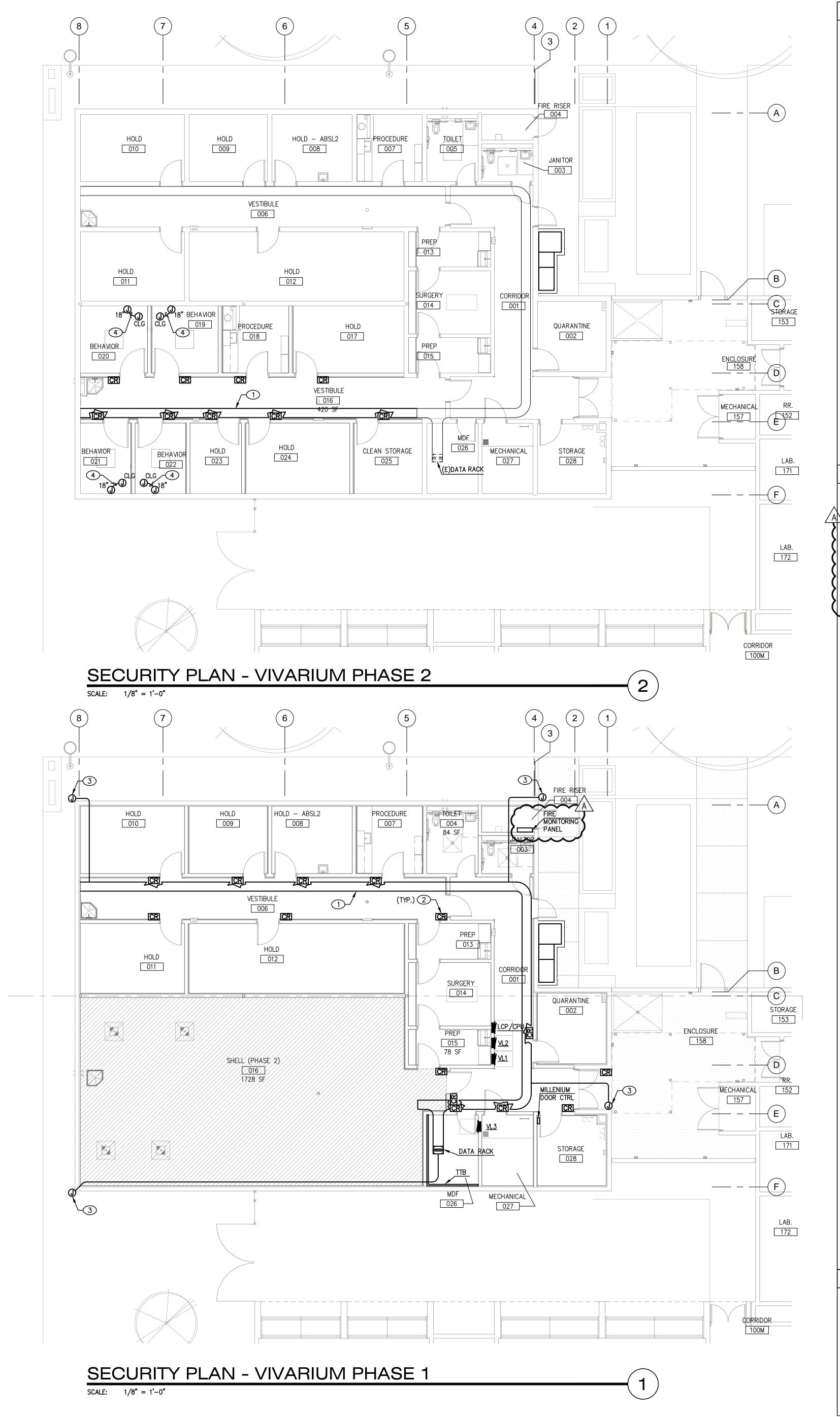
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REVISIONS DESCRIPTION A 08/05/16 ADDENDUM A Sheet Title

PHASED AUXILIARY

Date: 06/17/2016

E3.01



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CONSTRUCTION OF THIS TYPE OF PROJECT. ALL CONDUIT PENETRATIONS AND FIXTURES

SHALL BE VARMIN PROOF 3. FIRE ALARM CHIME STROBE LESS THAN

900 MEGAHERTZ. F. VERIFY ALL DEVICE MOUNTING HEIGHTS

PRIOR TO ROUGHING IN.

5. ALL DATA OUTLET CABLING SHALL BE CAT-6A.

KEYNOTES

18"x4" DEEP CENTER SUPPORT OPEN LADDER CABLE TRAY.

/ PROXIMITY BQ CARD READERS AT ALL INTERIOR DOORS (EXCLUDING RESTROOMS). ALL BUILDING ENTRANCES SHALL HAVE CARD READERS PER UNLV SPECIFICATIONS AND BUILDING CODE REQUIREMENTS. VERIFY WIRING REQUIREMENTS, EXACT LOCATIONS AND MOUNTING HEIGHTS WITH LOCK SHOP.

DOOR LATCH WILL CLICK AND CARD READER

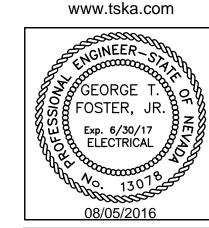
3. CAMERA MOUNT AT 15 FEET AFF. PROVIDE 2"C W/(2)CAT-6A TO ROOM 026.

IN CEILING DATA JUNCTION BOXES SHALL BE 4S DEEP OR 5S AS A MINIMUM FOR PROPRIETARY VIDEO MONITORING. 1-1/2"C FROM CEILING TO 4S DEEP OR 5S AS A MINIMUM JUNCTION BOX ON WALL 18" AFF WITHIN 3 FEET OF DATA DROP.

L--

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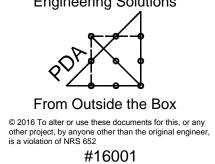
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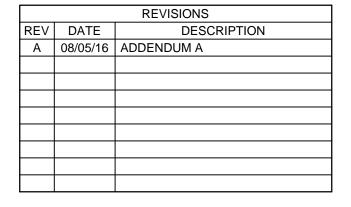
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Job No: 15-061

Owner **UNIVERSITY OF NEVADA, LAS VEGAS**

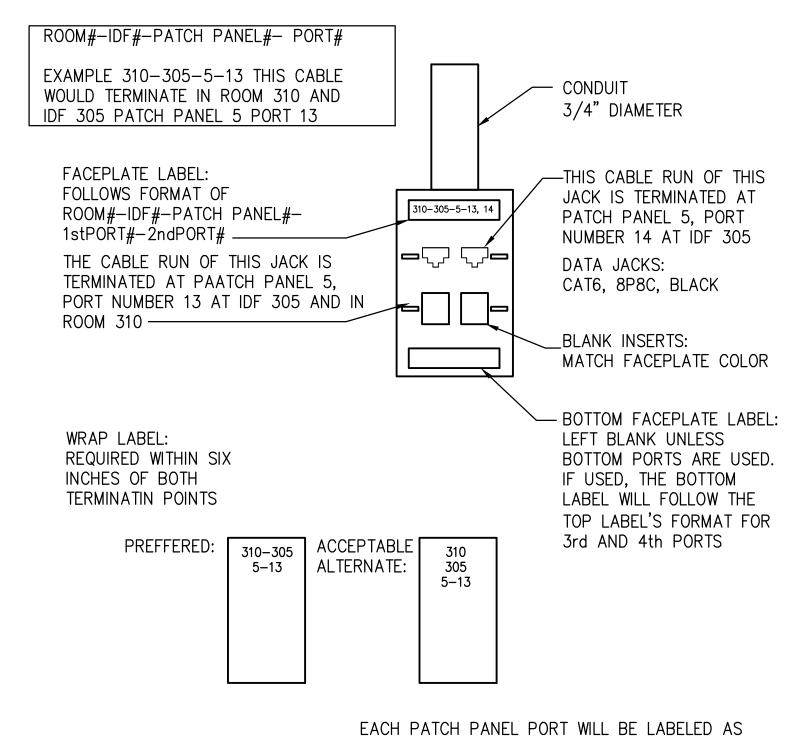
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Sheet Title PHASED SECURITY **PLANS - VIVARIUM**

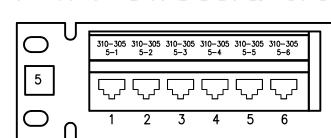
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E3.02

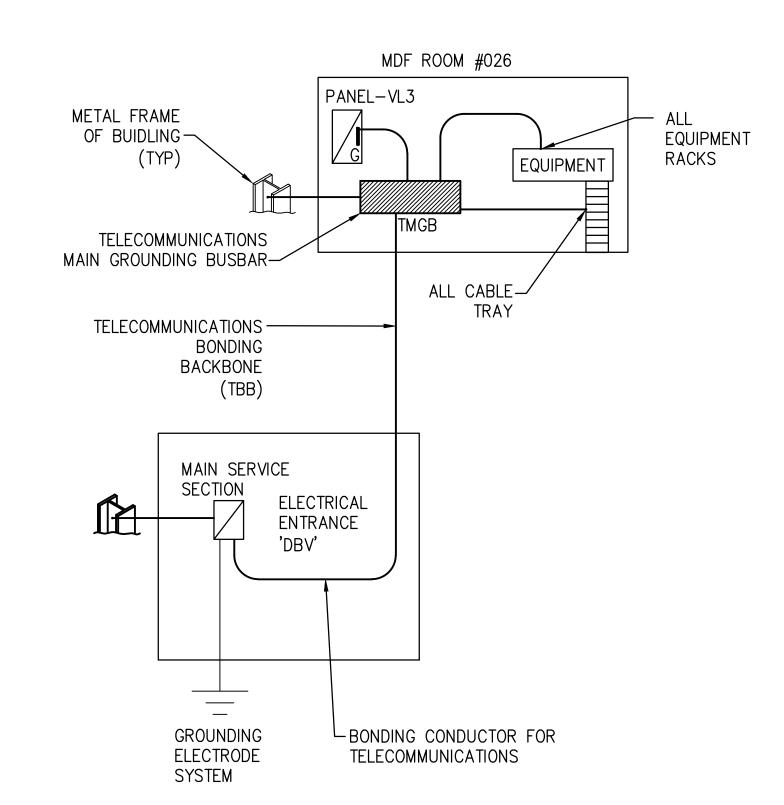


SHOWN USING THE SCHEME LISTED ABOVE. PATCH PANEL LABELS:

PATCH PANEL WILL BE LABELED AS SHOWN.. THE LABEL WILL BE A NUMBER UNIQUE TO THE RACK. IF IT IS THE TOP PATCH PANEL IN THE RACK IT WILL BE LABELED 1 IF IT IS THE NEXT PATCH PANEL DOWN FROM THE TOP IT WILL BE LABELED 2 AND SO ON.



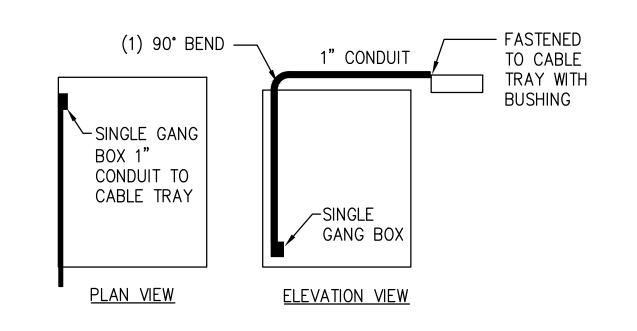
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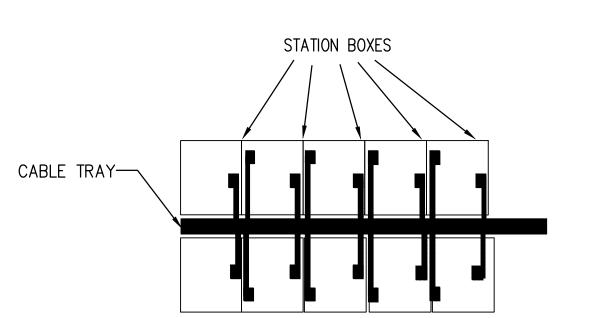


LOW VOLTAGE GROUNDING DETAIL

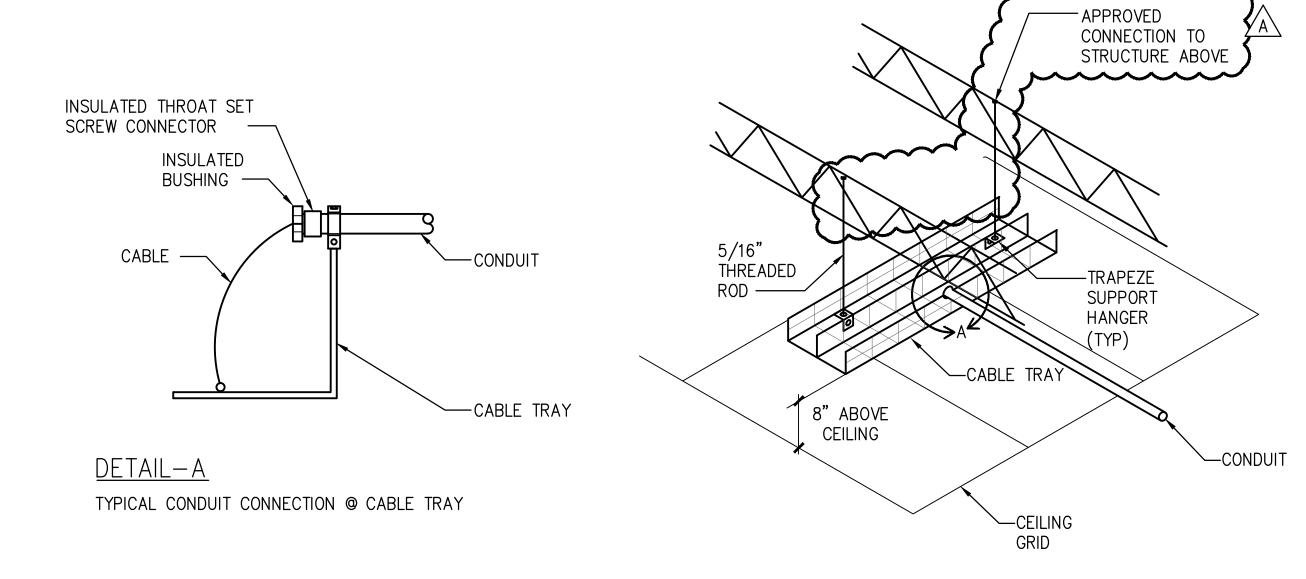
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(6)REFERENCE E3.01





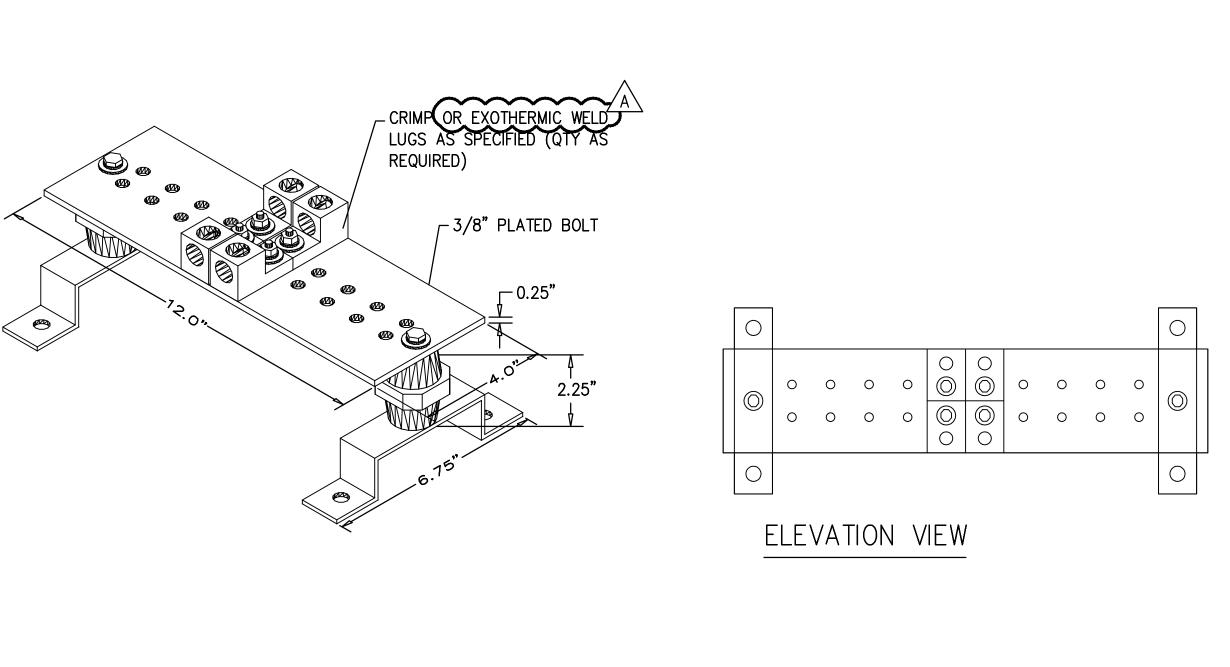
STANDARD CONDUIT ROUTING SCALE: NOT TO SCALE



CABLE TRAY DETAIL

SCALE: NOT TO SCALE

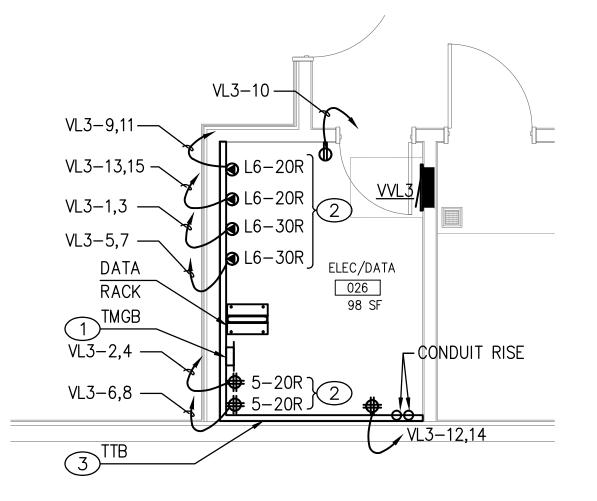
REFERENCE E3.01



TMGB AND TGB DETAIL SCALE: NOT TO SCALE

REFERENCE E3.01

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

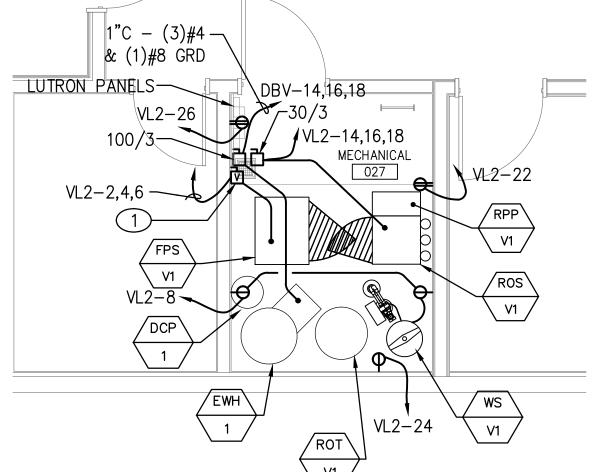


KEY NOTES

(1) REFER TO DETAIL 5/E4.01 FOR ADDITIONAL INFORMATION WITHIN 4'-0" OF THE REAR OF THE RACKS. VERIFY EXACT LOCATION AND REQUIREMENTS WITH OWNER'S 3 BACKBOARDS SHALL BE PLYWWOD 3/4"x4'x8' SHEETS, GRADE A, TREATED ON ONE SIDE WITH FIRE RESISTANT

ENLARGED ELEC/DATA RM ELECTRICAL PLAN SCALE: 1/4" = 1'-0"REFERENCE E2.01

PAINT OR MATERIAL, INSTALLED WITH FINISHED SIDE



DETAILS

REV DATE DESC A 08/05/16 ADDENDUM A

E4.01

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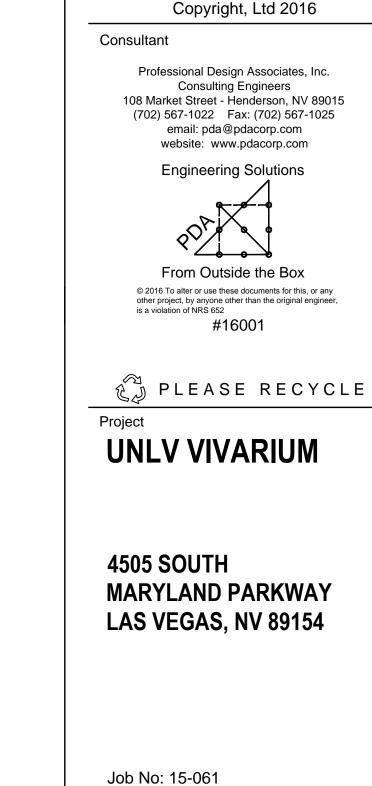
REVISIONS

DESCRIPTION

KEY NOTES 1 VFD FURNISHED BY MECHANICAL CONTRACTOR, CONNECTIONS BY ELECTRICAL CONTRACTOR.

ENLARGED MECH RM ELECTRICAL PLAN

REFERENCE E2.01



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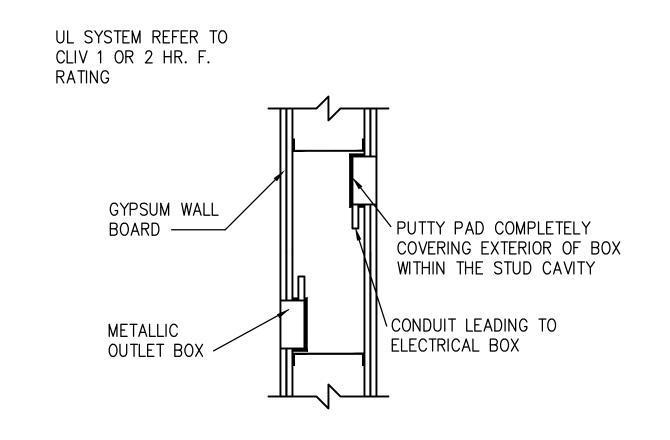
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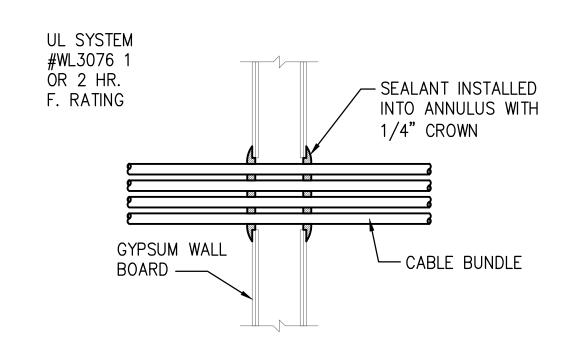
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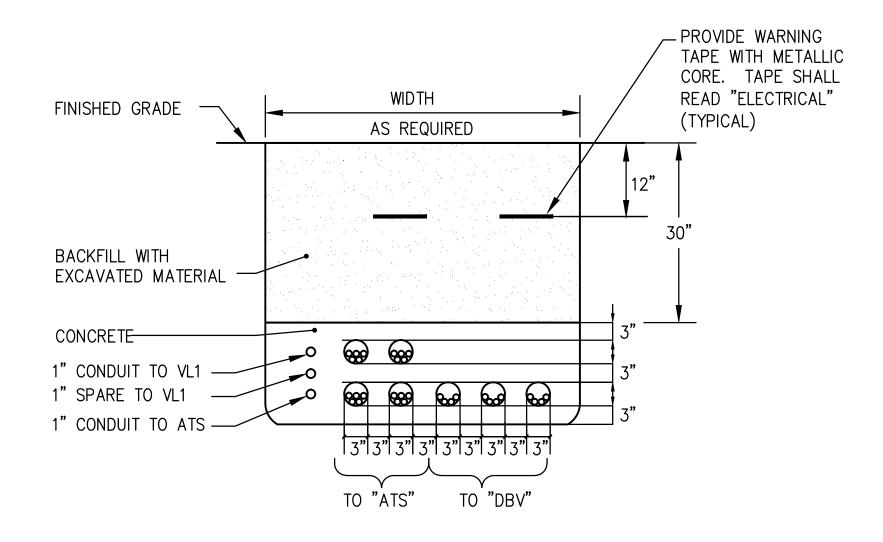
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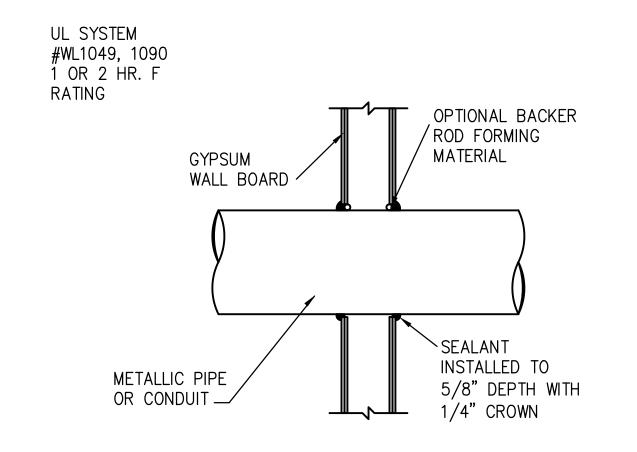




CABLE FIRE PENETRATION SCALE: NOT TO SCALE

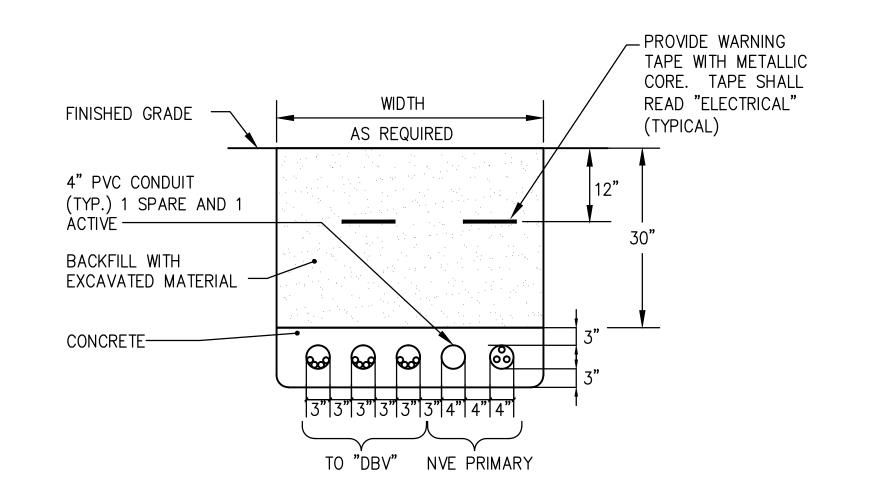


DUCTBANK FEEDER SECTION B SCALE: NOT TO SCALE REFERENCE SHEET ES1.01





SCALE: NOT TO SCALE



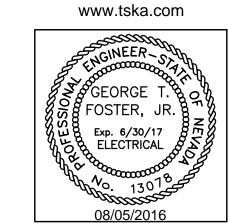
DUCTBANK FEEDER SECTION A

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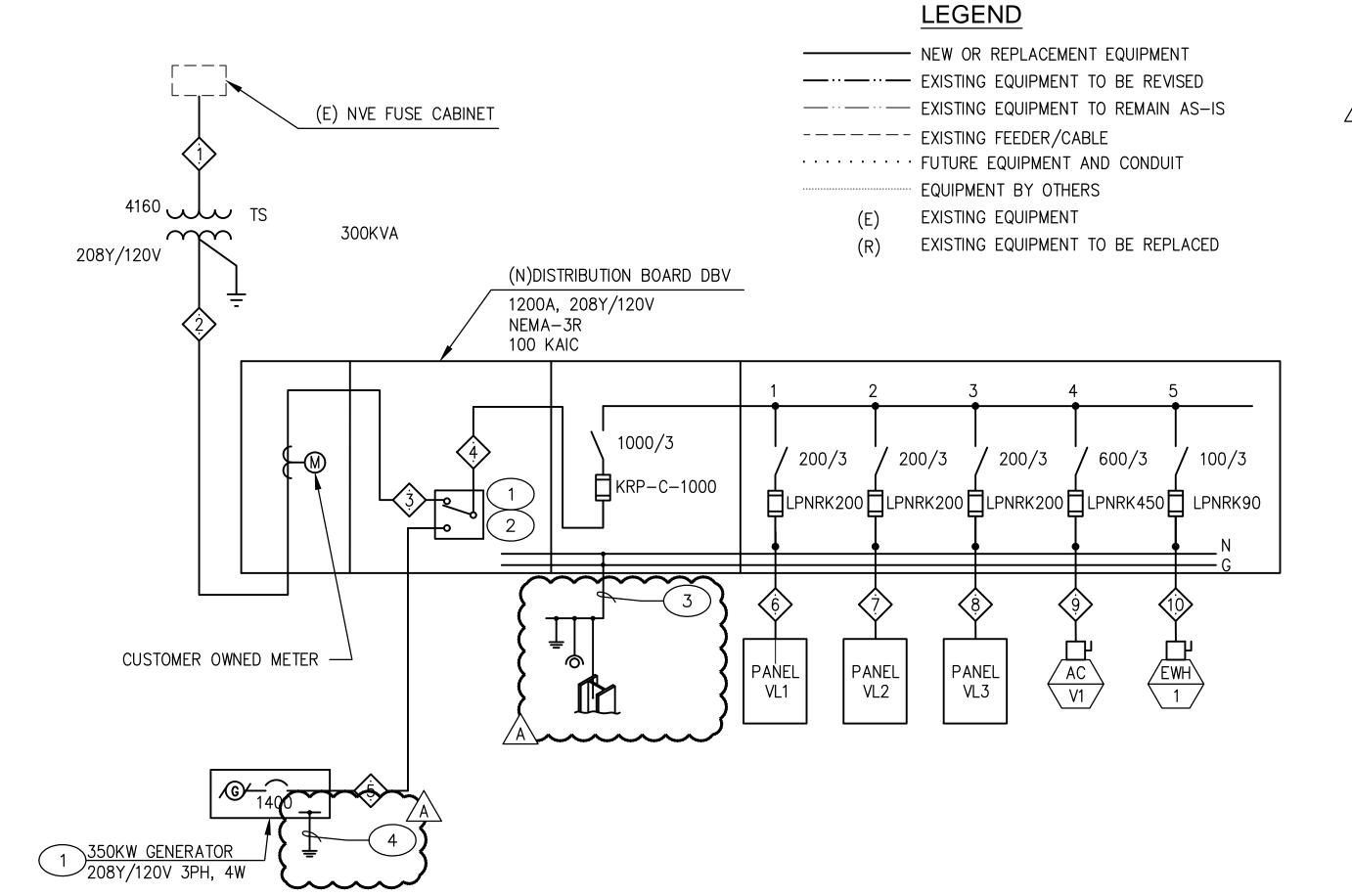
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REVISIONS
REV DATE DESCRIPTION
A 08/05/16 ADDENDUM A

Sheet Title **DETAILS**

Date: 06/17/2016
Sheet No:



SINGLE LINE DIAGRAM

SCALE: NOT TO SCALE

KEY NOTES:

1 PROVIDE FORM—C CONTACT FOR EMERGENCY AND NORMAL POWER STATUS TO BAS/JACE CONNECTION TO THE CAMPUS BAS.

2 1600A SERVICE ENTRANCE RATED ATS.

#1/0 CU GEC — 1"C TO GROUNDING ELECTRODE, COLD WATER SERVICE AND BUILDING STEEL PER NEC 250.

4 PROVIDE #4/0 COPPER GEC TO 3/4"X10FT COPPER CLAD GROUND



303 South Water Street, Suite 230

Henderson, NV 89015

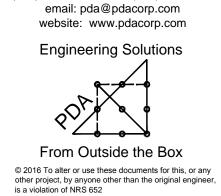
phone: 702.456.3000

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Professional Design Associates, I
Consulting Engineers
108 Market Street - Henderson, NV
(702) 567-1022 Fax: (702) 567-1

Consultant



PLEASE RECYCLE

#16001

UNLV VIVARIUM

4505 SOUTH MARYLAND PARKWAY LAS VEGAS, NV 89154

Job No: 15-061

UNIVERSITY OF NEVADA, LAS VEGAS

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PROJEC [®]	T NAME:		UNLV VIV	ARIUM												02-Aug-16
FEEDER	SCHEDUL	E NOTES	5:													
1.	SIZING INF	ORMATIO	N BASED	ON THE	IN / THW	И СОИ	DUCTORS	S IN METALI	TC COND	OUIT UNLESS	OTHERWISE	NOTED, PER 20)11 N.E.(C.		
2.	CONDUCT	OR SIZES	BASED	ON 75°C	. REQU	JIREMEN	ITS. ALL 1	TERMINATIO	NS SHALL	BE 75°C RA	TED.					
	FEEDER				co	NDUCT	OR INFO	RMATION	AND SIZE	:S		CON	IDUIT			
	NUMBER		NEUTRAL	MATERIAL	VOLTS	%	PH	HASE	NE	JTRAL	GROUND	INFORMATION				
TAG	FROM	то	CAPACITY	CU OR AL	DROP	DROP	QUANTITY	SIZE	QUANTITY	SIZE	SIZE	MATERIAL	SIZE	QUANTITY		
1	UTILITY	T1	N/A	CU	0.68	0.02	3	#1/0		N/A	#6	NON-METALLIC	4"	1	BY UTILITY	
2	T1	METER	100%	C	0.55	0.26	3	400 kcmil	1	400 kcmil	N/A	NON-METALLIC	3"	3	PARALLEL FEEDERS	
3	METER	ATS	100%	C	0.28	0.13	3	1200 A	1	1200 A	50%	BUS DUCT		1	BUS	
4	ATS	DVB	100%	Ü	0.28	0.13	3	1200 A	1	1200 A	50%	BUS DUCT		1	BUS	
5	GEN	ATS	100%	C	0.26	0.12	3	350 kcmil	1	350 kcmil	#3/0	NON-METALLIC	3"	4	PARALLEL FEEDERS	
6	DBV	VL1	100%	Ü	0.84	0.40	3	#3/0	1	#3/0	#6	NON-METALLIC	2"	1		
7	DBV	VL2	100%	C	0.84	0.40	3	#3/0	1	#3/0	#6	NON-METALLIC	2"	1		
8	DBV	VL3	100%	C	1.12	0.54	3	#3/0	1	#3/0	#6	NON-METALLIC	2"	1		
9	DBV	AC-V1	100%	CU	1.46	0.70	3	250 kcmil	1	250 kcmil	#2	METALLIC	2 1/2"	2	PARALLEL FEEDERS	
10	DBV	WH-1	N/A	CU	1.89	0.91	3	#3		N/A	#8	NON-METALLIC	1 1/4"	1		

Project # 16001		Prot	fessional Design Associates,
SHORT	CIRCUIT	ANALYSIS	REPORT
Project Name: UNLV VIVARIU	М		02-Au
BRANCH NUMBER	AVAILABLE SCA	AT EQUIPMENT	EQUIPMENT AIC RATING
0	94,573	UTILITY	N/A
1	32,116	DBV	65,000
2	14,170	PNL VL1	22,000
3	13,594	PNL VL2	22,000
4	13,063	PNL-VL3	22,000
5	9,542	A/C-1	10,000

NOTICE:

ALL WIRE SHALL BE COPPER TYPE THWN, WHERE NONMETALLIC CONDUIT IS USED A GROUND WIRE SIZED PER N.E.C. SHALL BE PROVIDED AND INSTALLED PER N.E.C. INCREASE CONDUIT SIZE AS REQUIRED BY N.E.C.

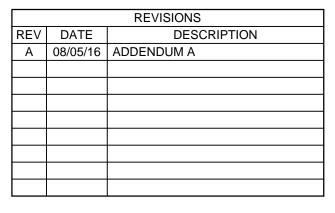
Professional Design Associates, Inc.

THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED VOLTAGE DROP CALCULATIONS AND ALL BRANCH CIRCUITS AND FEEDERS COMPLY WITH NEC 210-19(A)(1) FPN No. 4.

THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED SHORT CIRCUIT CALCULATIONS AND THE AIC RATINGS INDICATED FOR EACH DEVICE IS ADEQUATE TO PROTECT THE EQUIPMENT AND ELECTRICAL SYSTEM.

THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED LOAD CALCULATIONS AND VERIFIES THAT ALL UPSTREAM PANELS AND EQUIPMENT ARE NOT OVERLOADED.

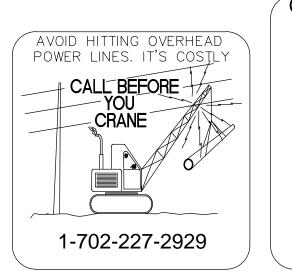
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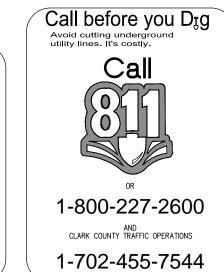
SINGLE LINE DIAGRAM
AND SCHEDULES

Date: 06/17/2016 Sheet No:

E5.02



PROJECT# 16001





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	VOLTS L - L :	208										PROJECTI	NUMBER:	16001	
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	PHASE :	3		M C B:				N O	SHUNI	TRIP:	N O	BUS MATER	RIAL:	CU	
	WIRE:	4		AIC RAT		65						GROUND B		YES	
	MOUNTING:	SURFACE			Y RATE		YES					BRANCHB		B O L T - O N	
	ENCLOSURE:	NEMA1		SERI BASIS O	ES RATE		6 0 B	NQOD -	00" W	V C E	Б	NEUTRALF		200%	
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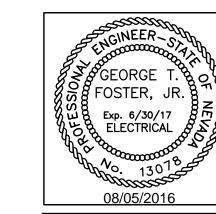
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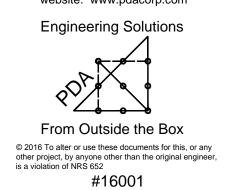
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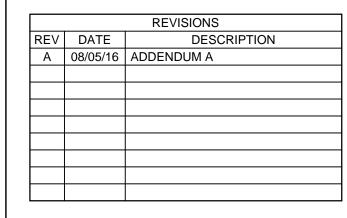
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