



		SYMBOL DATE DESCRIPTION BY REVISIONS C2020 NORRIS & TUNSTALL	Y PLAN HEALTH LELAND ASC IN HWY EAST C. 28451
Image: Descent and the second sec	OBLOLLY PINES 24" (5) 25" (3) 26" (2) WHITE OAK 32" (1)		OWNER/DEVELOPER NOVANT HEALTH, INC NOVANT HEALTH, INC MATTHEW H. STEINE SENIOR VICE PRESIDENT OF SENIOR VICE PRESIDENT OF CONSTRUCTION & FACILITIES 2085 FRONTIS PLAZA BLVD.INVENTOR NOVANT I 9151 OCEA2085 FRONTIS PLAZA BLVD. WINSTON-SALEM, NC 27103 704-316-4351LELAND, N.(
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NOTE: SITE SUMICHAEL UND	URVEY PROVIDE DERWOOD & ASS	D BY OC.	Licence #C-3641 23034 DES. JST CKD. JPN DRWN. TBM DATE 7/31/23 DATE 7/31/23 CARO OF ESSIONEER SEAA
	SCALE: 1" = 40'	120	I-1



8 ASC AND 0 TREE REMOVAL PLAN NOVANT HEALTH LELA 9151 OCEAN HWY EAST LELAND, N.C. 28451 IEW H. STEINE R VICE PRESIDENT OF FRUCTION & FACILITIES RONTIS PLAZA BLVD. ON-SALEM, NC 27103 OWNER/DEVELOPER NOVANT HEALTH, INC MATTHEW H. STEINE SENIOR VICE PRESIDENT OF CONSTRUCTION & FACILITIES 2085 FRONTIS PLAZA BLVD. WINSTONLSALEM NO 2005 TREE REMOVAL TABLE LOBLOLLY PINES 24" (4) 25" (3) 26" (2) <u>WHITE OAK</u> 32" (1) TREE TO BE PROTECTED LOBLOLLY PINE 24" (1) TUNSTALL ENGINEERS P.C.). NW 28420 7-5900 IVER RI SH, NC (910) 28 Se la contraction de la contra ., SUIT 28412 NORRIS 2602 IRON GATE DR. WILMINGTON, NC 2 PHONE (910) 343-9653 0 R/W _____ F0_____ E0____ Licence #C-3641 23034 des. JST JPN TBM CKD. DRWN. DATE 7/31/23 C1.0 SCALE: 1" = 40'



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<u>PMENT</u> <u>ES</u> 347 SF 231 SF			OWNER/DEVELOPER NOVANT HEALTH, INC NOVANT HEALTH, INC MATTHEW H. STEINE SENIOR VICE PRESIDENT OF CONSTRUCTION & FACILITIES 2085 FRONTIS PLAZA BLVD. WINSTON-SALEM, NC 27103 704-316-4351
Mon or Star Contract of Source of So			NORRIS & TUNNSTALLNORRIS & TUNNSTALLCONSULTING ENGINEERS P.C.CONSULTING ENGINEERS P.C.2602 IRON GATE DR., SUITE 1021429 ASH-LITTLE RIVER RD. NW MLMINGTON, NC 28412PHONE (910) 343-9653PHONE (910) 343-9653PHONE (910) 287-5900
TRAST " 168,875 SOFT. + 3,88 AC + 197.23 25- 26- 28- 28- 28- 28- 28- 28- 28- 28	2728		Licence #C-3641 23034 DES. JST CKD. JPN DRWN. TBM DATE 7/31/23 DATE 7/31/23 SEAA SEAA SEAA SEAA SEAA SEAA SEAA SEAA SEAA
	SCALE: 1" = 40'	120	C1.1



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				OWNER/DEVELOPER NOVANT HEALTH, INC MATTHEW H. STEINE MATTHEW H. STEINE SENIOR VICE PRESIDENT OF CONSTRUCTION & FACILITIES 2085 FRONTIS PLAZA BLVD. WINSTON-SALEM, NC 27103 704-316-4351
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R/W R/W	*28.73 *28.73 *28.73 *25.37 *25.37 *25.37 *28.42 *25.02 *28.42 *28.42 *28.42 *28.42 *28.42 *28.42 *28.42 *28.42 *28.42 *28.42 *28.42 *28.42 *28.52 *27.52 *28.52 *27.52 *28.52 *27.52 *2	*25.55 *25.52 *25.52 *25.52 *25.55 *25.55 *25.55 *25.55 *25.55 *25.55 *25.55 *25.55 *25.55 *25.55		Licence #C-3641 23034 DES. JST CKD. JPN DRWN. TBM DATE 7/31/23 DATE 7/31/23 CAROUNDEESSION SEA
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			OWNER/DEVELOPER NOVANT HEALTH, INC MATTHEW H. STEINE MATTHEW H. STEINE SENIOR VICE PRESIDENT OF CONSTRUCTION & FACILITIES 2085 FRONTIS PLAZA BLVD. WINSTON-SALEM, NC 27103 704-316-4351
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			OWNER/DEVELOPER NOVANT HEALTH, INC MATTHEW H. STEINE SENIOR VICE PRESIDENT OF CONSTRUCTION & FACILITIES 2085 FRONTIS PLAZA BLVD. WINSTON-SALEM, NC 27103 704-316-4351
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			& TUNNSTALL NG ENGINEERS P.C. — E 102 1429 ASH-LITTLE RIVER RD. NW ASH, NC 28420 PHONE (910) 287-5900
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			Licence #C-3641 23034
			DES. JST CKD. JPN DRWN. TBM DATE 7/31/23 DATE 7/31/23 CARO OFESSION SEA
	SCALE: 1" = 40'	120	C4



1. RAMP SHALL HAVE A DETECTABLE WARNING COMPLYING WITH ADA GUIDELINES. BURGUNDY OR TINTED RED COLOR FOR DOME.

2. THE DETECTABLE WARNINGS AT CURB RAMPS SHALL BE 24 INCHES MINIMUM IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.

3. MARKED CROSSINGS THAT ARE RAISED TO THE SAME LEVEL AS THE ADJOINING SIDEWALK SHALL BE PRECEDED BY A 24 INCH DEEP DETECTABLE WARNING EXTENDING THE FULL WIDTH OF THE MARKED CROSSING.

4. DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 IN (23 MM), A HEIGHT OF NOMINAL 0.2 IN (5 MM) AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 IN (60 MM) AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHOULD CONTRAST BY AT LEAST 70% - REFER TO ADA GUIDELINES FOR DEFINITION OF "CONTRAST".

5. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.

DETECTABLE WARNING NOTES 4

FIRE AND LIFE SAFETY NOTES:

1. FIRE HYDRANTS MUST BE WITHIN 150' OF THE FIRE DEPARTMENT CONNECTION.

2. THE FIRE DEPARTMENT CONNECTION MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.

3. LANDSCAPING AND PARKING CANNOT BLOCK OR IMPEDE THE FIRE DEPARTMENT CONNECTIONS OR FIRE HYDRANTS. A 3' CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE FIRE HYDRANT CONNECTION AND THE FIRE HYDRANT.

4. FIRE HYDRANTS MUST BE LOCATED WITHIN 8' OF THE CURB. 5. NEW HYDRANTS MUST BE AVAILABLE FOR USE PRIOR TO CONSTRUCTION OF THE BUILDINGS.

6. NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS BEING DELIVERED TO THE JOB SITE. 7. THE CONTRACTOR WILL MAINTAIN ALL-WEATHER EMERGENCY ACCESS TO CONSTRUCTION SITE AT ALL TIMES.

8. TEMPORARY STREET SIGNS SHALL BE INSTALLED AT EACH STREET INTERSECTION WHEN CONSTRUCTION OF NEW ROADWAYS ALLOWS PASSAGE BY VEHICLES.

9. UNDERGROUND FIRE LINE AND PRIVATE WATER MAINS MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT THE LELAND FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY FOR ADDITIONAL INFORMATION.

10. A MINIMUM OF 5' SHALL SEPARATE UNDERGROUND FIRE LINES OR PRIVATE WATER MAINS FROM OTHER UNDERGROUND UTILITIES. 11. HYDRANTS SHALL BE OF SUFFICIENT NUMBERS TO ACCOMODATE BASE FIRE FLOW REQUIREMENTS OF THE STRUCTURE.

12. ADDITIONAL FIRE PROTECTION AND/OR ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.

13. THE CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY THAT DEMONSTRATES THAT EXISTING EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET THE REQUIREMENTS OF SEC. 510 OF THE 2018 FIRE CODE. 14. BUILDING CONSTRUCTION TYPE:

15. PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE LELAND FIRE AND LIFE SAFETY DIVISION

16. ALL ISOLATION VALVES WITHIN THE "HOT BOX" AND BETWEEN THE "HOT BOX" AND THE RISER ROOM MUST BE ELECTRICALLY SUPERVISED.

\$ITE WORK NOTES:

I. THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH FIELD CONSTRUCTION CONDITIONS. 2. CONTRACT BRUSHING SEGRETING WORK WEITING INDECTING DISARSTICANT OF WAYS WITH PROPER AUTHORITIES AND SHALL MEET ANY REQUIREMENTS AS TO TRAFFIC CONTROL AND CONNECTION TO EXISTING STREETS. 3. CLEARING PAR COULD BE AND - AN OR PER ANE AND CREE COULD BE OTHERWISE NOTED TO REMAIN, STUMPS, ROOTS, SHRUBBERY, ASPHALT, CONCRETE, STRUCTURES, BURIED UTILITIES, STORAGE TANKS, ETC. WITHIN LIMITS CONSTRUCTION. 4. Solighted: BEFORE EXCAVATING OR FILLING, REMOVE ALL TOPSOIL, WOOD, LEAVES, AND ANY OTHER UNSUITABLE

5. MUCKING: REMOVE ANY SOFT, ORGANIC SILT MATERIALS AND EXISTING BURIED CONSTRUCTION DEBRIS AS REQUIRED AND FILL TO SUBGRADE ELEVATIONS WITH A CLEAN SELECT-FILL COMPACTED AS SPECIFIED. 6. DISPOSAL: CLEARED, GRUBBED, STRIPPED OR EXCAVATED SPOIL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES.

7. BORROW MATERIAL: THE CONTRACTOR SHALL FURNISH BORROW MATERIAL REQUIRED FROM OFF SITE AND OBTAIN ALL REQUIRED PERMITS ASSOCIATED WITH BORROW OPERATIONS. 8. FILL AND COMPACTION: AFTER STRIPPING THOSE AREAS DESIGNATED TO RECEIVE FILL SHOULD BE PROOFROLLED. THE TOP 8" OF SUBGRADE SHALL BE COMPACTED TO AT LEAST 98% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE

CONTENT. ANY AREA WHICH PUMPS OR RUTS EXCESSIVELY SHOULD BE UNDERCUT AND REPLACED WITH A CLEAN, SILTY OR CLAYEY SAND HAVING A UNIFIED SOIL CLASSIFICATION OF SP, SM, OR SC. FILL MATERIAL 5" OUTSIDE OF BUILDING AREAS SHALL THEN BE PLACED IN LAYERS NOT TO EXCEED 8" AND COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698) WITH THE UPPER 12 INCHES OF SUBGRADE BEING COMPACTED TO 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. FILL MATERIALS WITHIN BUILDING AREAS TO A LINE OUTSIDE THE BUILDING AREAS SHALL BE PLACED IN LAYERS NOT TO EXCEED B" AND COMPACTED TO AT LEAST A LINE OUTSIDE THE BUILDING AREAS SHALL BE PLACED IN LAYERS NOT TO EXCEED 8' AND COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698) WITH THE UPPER 12 INCHES OF SUBGRADE BEING COMPACTED IN 6 INCH LAYERS TO 100% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. IN AREAS WHERE NO STRUCTURAL FILL IS TO BE PLACED THE UPPER 12 INCHES OF IN-PLACE SUBGRADE SHOULD BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. IF THE MATERIAL IS TOO DRY TO COMPACT TO THE REQUIRED DENSITY EACH LAYER SHALL BE WETTED IN ACCORDANCE WITH COMPACTION REQUIREMENTS. IF THE MATERIAL IS TOO WET TO SECURE PROPER COMPACTION, IT SHALL BE HARROWED REPEATEDLY OR OTHERWISE AERATED WITH SUITABLE EQUIPMENT UNTIL OPTIMUM MOISTURE CONTENT IS OBTAINED. FILL SHALL BE PLACED IN SUCH A MANNER THAT THE SURFACE WILL DRAIN READILY AT ALL TIMES. SEE STRUCTURAL NOTES AND SOILS REPORT FOR ADDITIONAL REQUIREMENTS. ADDITIONAL REQUIREMENTS.

9. LAYOUT: THE CONTRACTOR SHALL PROVIDE ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK. 10. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION. 11. EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION FROM SURVEY BY MICHAEL UNDERWOOD & ASSO. COMPANY, AND PROVIDED BY OWNER.

12. THE CONTRACTOR SHALL VERIFY DIMENSIONS AT JOBSITE.

13. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF RELOCATION OR DISCONNECTION OF ALL EXISTING UTILITIES WITH APPLICABLE AGENCIES AND AUTHORITIES. 14. ALL PAVEMENT AND BASE MATERIALS AND WORKMANSHIP SHALL CONFORM TO NCDOT STANDARDS. 15. WATER AND SEWER SERVICES SHALL BE INSTALLED TO MEET LOCAL AND STATE PLUMBING CODES. METER AND TAPS SHALL MEET ALL LOCAL REQUIREMENTS.

16. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE.

17. SEE SOILS REPORT FOR ADDITIONAL REQUIREMENTS.

18. CONTRACTOR SHALL NOTE THAT EARTHWORK QUANTITIES ARE HIS RESPONSIBILITY. PLANS DO NOT REPRESENT A BALANCED EARTHWORK CONDITION.

19. REINF. CONC. PIPE SHALL BE CLASS III W/RUBBER GASKETED JOINT OR "RAM NECK". INSTALL PER MANUFACTURER'S REQUIREMENTS. 20. USE WHITE LANE MARKING PAINT FOR ALL PAVEMENT MARKINGS. PAINT SHALL BE A CHLORINATED RUBBER ALKYD, FS TT-P-115, TYPE III, FACTORY MIXED, QUICK DRYING, NON-BLEEDING.

21. REFER TO THE PLUMBING DRAWINGS FOR LOCATION AND INVERTS OF NEW WASTE, WATER AND ROOF DRAIN LINES. 22. CONTRACTOR SHALL CONFIRM EXISTING UTILITY INVERTS PRIOR TO CONSTRUCTION.

C 2020 NORRIS & TUNSTALL	NOTES AND DETAILS NOVANT HEALTH LELAND ASC 9151 OCEAN HWY EAST LELAND, N.C. 28451
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	Licence #C-3641
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	C5.0





ROUND STABILIZ	ATION AND M	ATERIALS HAN	DUING PRACTICES FOR COMPLIANCE WITH	Fou		CE.
HE NCG01 CONST	RUCTION GEN	ERAL PERMIT		1.	Maintain vehicles and equipment	to prevent discharge of fluids.
mplementing the	details and spec	cifications on t	his plan sheet will result in the construction	2.	Provide drip pans under any store	d equipment.
ections of the NCC	GO1 Construction	nt with the Gr	mit (Sections E and F, respectively) The	3.	Identify leaks and repair as soon a	s feasible, or remove leaking equipment from the
ermittee shall cor	nply with the Er	rosion and Sec	liment Control plan approved by the	1	project. Collect all spent fluids, store in set	parate containers and properly dispose as
elegated authorit	y having jurisdie	ction. All deta	Is and specifications shown on this sheet		hazardous waste (recycle when po	ssible).
nay not apply dep	enuing on site c		the delegated authority having jurisdiction.	5.	Remove leaking vehicles and cons	truction equipment from service until the proble
ECTION E: GROUI	ND STABILIZATI	ON		6	has been corrected.	to hudroulis fluids and other notroloum product
	Required	Ground Stabi	lization Timeframes	0.	to a recycling or disposal center th	hat handles these materials.
	Stabili	ize within this				
Site Area Descri	ption days a	fter ceasing	Timeframe variations	LITTER	, BUILDING MATERIAL AND LAND	CLEARING WASTE
	land d	listurbance		1.	Never bury or burn waste. Place lit	ter and debris in approved waste containers.
 Perimeter di swales ditch 	kes,	7	None	2.	Provide a sufficient number and siz	e of waste containers (e.g dumpster, trash
perimeter sl	opes	'	None	3.	ocate waste containers at least 50	feet away from storm drain inlets and surface
(b) High Quality	Water	7	None		waters unless no other alternatives	are reasonably available.
(HQW) Zone	5	/	None	4.	ocate waste containers on areas t	hat do not receive substantial amounts of runoff
(c) Slopes steep	er than	7	If slopes are 10' or less in length and are	5.	Cover waste containers at the end	of each workday and before storm events or
3:1		'	allowed		provide secondary containment. R	epair or replace damaged waste containers.
			-7 days for slopes greater than 50' in	6.	Anchor all lightweight items in was	te containers during times of high winds.
			length and with slopes steeper than 4:1	7.	mpty waste containers as needed containers overflow.	to prevent overflow. Clean up immediately if
(d) Slopes 3:1 to	4:1	14	ditches, perimeter slopes and HOW	8.	Dispose waste off-site at an approv	ed disposal facility.
			Zones	9.	On business days, clean up and dis	oose of waste in designated waste containers.
			-10 days for Falls Lake Watershed			
			-/ days for perimeter dikes, swales, ditches, perimeter slopes and HOW Zopes	PAIN	Do not dump paint and other liqui	d waste into storm drains, streams or wetlands
(e) Areas with sl	opes	14	-10 days for Falls Lake Watershed unless	2.	Locate paint washouts at least 50 f	eet away from storm drain inlets and surface
natter tildir 4		1	there is zero slope		waters unless no other alternative	s are reasonably available.
lote: After the per	manent cessat	ion of constru	ction activities, any areas with temporary	3.	Contain liquid wastes in a controlle	ed area.
round stabilizatio	n shall be conve to case longer t	erted to perm han 90 calence	anent ground stabilization as soon as ar days after the last land disturbing	4.	Containment must be labeled, size Prevent the discharge of soans, so	a and placed appropriately for the needs of site.
activity. Temporar	y ground stabil	ization shall b	e maintained in a manner to render the	5.	construction sites.	Berne and other inquite wastes itolii
surface stable agai	nst accelerated	erosion until	permanent ground stabilization is achieved.	POPT	BIETOUETS	
GROUND STABILIZ	ATION SPECIFI	CATION	The state of the s	1.	Install portable toilets on level grou	und, at least 50 feet away from storm drains,
stabilize the groun	d sufficiently so	o that rain will	not dislodge the soil. Use one of the		streams or wetlands unless there i	s no alternative reasonably available. If 50 foot
Tempo	rany Stabilization		Permanent Stabilization		offset is not attainable, provide rel	ocation of portable toilet behind silt fence or pla- sand bags.
Temporary grass	seed covered with	h straw or •	Permanent grass seed covered with straw or	2.	Provide staking or anchoring of po	table toilets during periods of high winds or in hi
other mulches an	d tackifiers		other mulches and tackifiers		foot traffic areas.	
 Rolled erosion co 	ntrol products wit	thor	reinforcement matting	3.	Vionitor portable toilets for leaking Utilize a licensed sanitary waste ha	g and properly dispose of any leaked material. uler to remove leaking portable toilets and repla
without temporal	ry grass seed	•	Hydroseeding		with properly operating unit.	
 Appropriately appropriately app	blied straw or othe	er mulch •	Shrubs or other permanent plantings covered with mulch			
			Uniform and evenly distributed ground cover	EART	IEN STOCKPILE MANAGEMENT	
			sufficient to restrain erosion Structural methods such as concrete, asphalt or	1.	Show stockpile locations on plans. 50 feet away from storm drain inle	Locate earthen-material stockpile areas at least
			retaining walls		and surface waters unless it can be	shown no other alternatives are reasonably
		•	Rolled erosion control products with grass seed	2	available. Protect stocknile with silt fence ins	talled along too of slone with a minimum offset
POLYACRYLAMIDE	S (PAMS) AND	FLOCCULANT	<u>s</u>		five feet from the toe of stockpile.	
1. Select floccu	lants that are a	ppropriate fo	r the soils being exposed during	3.	Provide stable stone access point v	vhen feasible.
2. Apply floccu	lants at or befo	re the inlets t	Erosion and Sediment Control Measures.	4.	Stabilize stockpile within the time with the approved plan and any ac	rames provided on this sheet and in accordance Iditional requirements. Soil stabilization is define
3. Apply floccu	lants at the cor	centrations s	becified in the NC DWR List of Approved		as vegetative, physical or chemical	coverage techniques that will restrain accelerate
PAMS/Flocc	ulants and in ac	cordance with	the manufacturer's instructions.		erosion on disturbed soils for temp	porary or permanent control needs.
4. Provide pon offsite.	ding area for co	ontainment of	treated Stormwater before discharging		and the second s	
5. Store floccul	ants in leak-pro	oof containers	that are kept under storm-resistant cover		NO	rin CAROLINA
	ed by secondar	y containmen	structures.		Env	a onmental Quality
or surround	and the second se	NT	CC01 CDOIND	TAT	II IZATION	NID MATEDIALO
or surround					ILIZATION A	AND MATERIALS
or surround		IN	COULOKOOND 3	JIML		
or surround		IN				
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or surround		IN				
or surround		PART				PART III
or surround	ELF-INSPECTIO	PART DN, RECORDKI	II EEPING AND REPORTING		SELF-INSPECTION, REG	PART III CORDKEEPING AND REPORTING
	SELF-INSPECTIO	PART DN, RECORDKI	II SEPING AND REPORTING		SELF-INSPECTION, REG	PART III CORDKEEPING AND REPORTING
or surround	SELF-INSPECTIO	PART DN, RECORDKI	II EEPING AND REPORTING		SELF-INSPECTION, REG	PART III CORDKEEPING AND REPORTING
or surround	SELF-INSPECTIO ISPECTION Prequired durin rse weather or	PART PART DN, RECORDKI ng normal bus site condition	II EEPING AND REPORTING ness hours in accordance with the table s would cause the safety of the inspection	SECTION 1. E&SC I The ar	SELF-INSPECTION, REG B: RECORDKEEPING lan Documentation proved E&SC plan as well as any as	PART III CORDKEEPING AND REPORTING
or surround	SELF-INSPECTIO ISPECTION Prequired durin rse weather or eopardy, the iner erform the iner	PART DN, RECORDKI ag normal bus site condition aspection may pection in ad	Il EEPING AND REPORTING ness hours in accordance with the table s would cause the safety of the inspection be delayed until the next business day on dition, when a storm event of equal to or	SECTION 1. E&SC I The ap approv	SELF-INSPECTION, REG B: RECORDKEEPING lan Documentation proved E&SC plan as well as any ap ed E&SC plan must be kept up-to-o	PART III CORDKEEPING AND REPORTING oproved deviation shall be kept on the site. The date throughout the coverage under this permit.
or surround ECTION A: SELF-IN elf-inspections are elow. When adve ersonnel to be in j which it is safe to p reater than 1.0 inc	SELF-INSPECTIO ISPECTION a required durin rse weather or leopardy, the in erform the insp ch occurs outsic	PART PART DN, RECORDKI site condition spection may pection. In ad de of normal b	II SEPING AND REPORTING ness hours in accordance with the table s would cause the safety of the inspection be delayed until the next business day on dition, when a storm event of equal to or usiness hours, the self-inspection shall be	SECTION 1. E&SC I The ap approv The fo	SELF-INSPECTION, REG B: RECORDKEEPING lan Documentation proved E&SC plan as well as any ap ed E&SC plan must be kept up-to-o lowing items pertaining to the E&S lowing items pertaining to the E&S	PART III CORDKEEPING AND REPORTING oproved deviation shall be kept on the site. The date throughout the coverage under this permit. CC plan shall be documented in the manner
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accordance with the approved E&SC . Description, evidence, and date of corrective actions taken. Plan. report to indicate compliance with approved (3) Stormwater At least once per . Identification of the discharge outfalls inspected, ground cover specifications. discharge 7 calendar days 2. Date and time of the inspection, outfalls (SDOs) and within 24 3. Name of the person performing the inspection, Complete, date and sign an inspection report. (d) The maintenance and repair . Evidence of indicators of stormwater pollution such as oil hours of a rain requirements for all E&SC Measures event > 1.0 inch in sheen, floating or suspended solids or discoloration, have been performed. 24 hours Indication of visible sediment leaving the site. 5. Description, evidence, and date of corrective actions taken (e) Corrective actions have been taken Initial and date a copy of the approved E&SC (4) Perimeter o At least once per If visible sedimentation is found outside site limits, then a record to E&SC Measures. Plan or complete, date and sign an inspection of the following shall be made: 7 calendar days report to indicate the completion of the and within 24 1. Actions taken to clean up or stabilize the sediment that has left corrective action. hours of a rain the site limits, event > 1.0 inch in 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future 24 hours Additional Documentation (5) Streams or At least once per If the stream or wetland has increased visible sedimentation or a In addition to the E&SC Plan documents above, the following items shall be kept on the wetlands onsite 7 calendar days stream has visible increased turbidity from the construction or offsite and within 24 activity, then a record of the following shall be made: and available for agency inspectors at all times during normal business hours, unless the (where hours of a rain . Description, evidence and date of corrective actions taken, and accessible) Division provides a site-specific exemption based on unique site conditions that make this event ≥ 1.0 inch in 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit requirement not practical: of this permit. (6) Ground After each phase 1. The phase of grading (installation of perimeter E&SC (a) This general permit as well as the certificate of coverage, after it is received. measures, clearing and grubbing, installation of storm stabilization of grading measures drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent (b) Records of inspections made during the previous 30 days. The permittee shall record ground cover). the required observations on the Inspection Record Form provided by the Division or Documentation that the required ground stabilization a similar inspection form that includes all the required elements. Use of measures have been provided within the required electronically-available records in lieu of the required paper copies will be allowed if timeframe or an assurance that they will be provided as soon as possible. shown to provide equal access and utility as the hard-copy records. NOTE: The rain inspection resets the required 7 calendar day inspection requirement. All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

NORTH CAROLINA Environmental Quality

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING



- Create designated hazardous waste collection areas on-site. Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.

HANDLING



ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE, LESS THAN ONCE EVERY WEEK AND WITHIN 24 HOURS OF EVERY HALF-INCH RAINFALL.

ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN ADDITIONAL 2 INCHES OF #4 STONE TO MAINTAIN PROPER DEPTH. THEY WILL BE MAINTAINED IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE OBJECTIONABLE MATERIAL SPILLED WASHED OR TRACKED ONTO THE CONSTRUCTION ENTRANCE OR ROADWAYS.

SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET PROTECTION, BLOCK AND GRAVEL INLET PROTECTION, ROCK DOUGHNUT INLET PROTECTION AND ROCK PIPE INLET PROTECTION WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE. SILT SACKS WILL BE EMPTIED ONCE A WEEK AND AFTER EVERY RAIN EVENT. SEDIMENT WILL BE REMOVED FROM AROUND WATTLES, BEAVER DAMS, DANDY SACKS AND SOCKS ONCE A WEEK AND AFTER EVERY RAIN EVENT.

4. DIVERSION DITCHES WILL BE CLEANED OUT IMMEDIATELY TO REMOVE SEDIMENT OR OBSTRUCTIONS FROM THE FLOW AREA. THE DIVERSION RIDGES WILL ALSO BE REPAIRED. SWALES MUST BE TEMPORARILY STABILIZED WITHIN 21 CALENDAR DAYS OF CEASE OF ANY PHASE OF ACTIVITY ASSOCIATED WITH A SWALE.

SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES HALF FILLED. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. STAKES MUST BE STEEL. STAKE SPACING WILL BE 6 FEET MAX. WITH THE USE OF EXTRA STRENGTH FABRIC, WITHOUT WIRE BACKING. STAKE SPACING WILL BE 8 FEET MAX. WHEN STANDARD STRENGTH FABRIC AND WIRE BACKING ARE USED. IF ROCK FILTERS ARE DESIGNED AT LOW POINTS IN THE SEDIMENT FENCE, THE ROCK WILL BE REPAIRED OR REPLACED IF IT BECOMES HALF-FULL OF SEDIMENT, NO LONGER DRAINS AS DESIGNED OR IS DAMAGED.

6. SEDIMENT WILL BE REMOVED FROM SEDIMENT TRAPS WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALE FULED WITH SEDIMENT THE ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS OR WHEN THE ROCK IS DISLODGED. BAFFLES WILL BE REPAIRED OR REPLACED IF THEY COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE. THEY WILL BE REPLACED PROMPTLY. SEDIMENT WILL BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE 1ST BAFFLE. FLOATING SKIMMERS WILL BE INSPECTED AND KEPT CLEAN WEEKLY.

SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN WHEN THE DESIGN STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS OR IF THE ROCK IS DISLODGED. BAFFLES WILL BE REPAIRED OR REPLACED IF THEY COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE. THEY WILL BE REPLACED PROMPTLY. SEDIMENT WILL BE REMOVED FROM BAFFLES WHEN DEPOSITS REACH HALF THE HEIGHT OF THE 1ST BAFFLE. FLOATING SKIMMERS WILL BE INSPECTED WEEKLY AND WILL BE KEPT CLEAN.

8. LAND QUALITY REQUIRES: ALL SEEDED AREAS WILL BE FERTILIZED, RESEEDED AS NECESSARY, AND MULCHED. ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN, TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ALL SLOPES WILL BE STABILIZED WITHIN 21 CALENDAR DAYS. ALL OTHER AREAS WILL BE STABILIZED WITHIN 15 WORKING DAYS. WATER QUALITY REQUIRES: ALL SEEDED AREAS WILL BE FERTILIZED, RESEEDED AS NECESSARY AND

MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, ALL SLOPES STEEPER THAN 3' HORIZONTAL TO 1' VERTICAL (3:1) AND ALL HIGH QUALITY WATER (HQW) ZONES SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN SEVEN (7) CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.

9. FLOCCULANTS WILL BE USED TO ADDRESS TURBIDITY ISSUES. THE SYSTEMS WILL BE CHECKED FUR NKS. HOSES AND INJECT PROBLEMS OR TURBID DISCHARGES DAILY.

10. BASIN OUTLET STRUCTURES AND SKIMMERS SHALL WITHDRAW WATER FROM THE SURFACE.

11. CONCRETE WASHOUTS SHOULD BE INSPECTED DAILY AND AFTER HEAVY RAINS. DAMAGES SHOULD BE REPAIRED PROMPTLY. IF FILLED TO OVER 75% CAPACITY WITH RAIN WATER IT SHOULD BE VACUUMED OR ALLOWED TO EVAPORATE TO AVOID OVERFLOWS. BEFORE HEAVY RAINS THE CONTAINERS LIQUID LEVEL SHOULD BE LOWERED OR THE CONTAINER COVERED TO AVOID AN OVER FLOW DURING RAIN. WHEN SOLIDS HAVE HARDENED THEY SHOULD BE REMOVED AND RECYCLED.



EFFECTIVE: 04/01/19

	BY	
TEMPORARY SEEDING RECOMMENDATIONS FOR FALL		
SEEDING MIXTURE SPECIES RATE (Ib/acre) (Ib/1000 sf)		
RYE (GRAIN) 120 2.75	N	
MOUNTAINS – AUG. 15 – DEC. 15 COASTAL PLAIN AND PIEDMONT – AUG. 15 – DEC. 15	STALL	
SOIL AMENDMENTS: FOLLOW SOIL TEST OR APPLY 2,000 Ib/acre GROUND AGRICULTURAL	DESCI	
<u>MULCH:</u> APPLY 4,000 Ib/acre STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT,	S &	
NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL. MAINTENANCE:	DRRIS	
REPAIR AND REFERTILIZE DAMAGE AREAS IMMEDIATELY. TOP DRESS WITH 50 Ib/acre OF NITROGEN IN MARCH, IF IT IS NECESSARY TO EXTEND	ы И И И И И И И	SC
(PIEDMONT AND COASTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.	DA1	Q
TEMPORARY SEEDING RECOMMENDATIONS FOR SUMMER	5	ANI
SEEDING MIXTURE SPECIES RATE (Ib/acre) (Ib/1000 sf)	2YMB	ST
GERMAN MILLET 40 0.92 IN THE PIEDMONT AND MOUNTAINS. A SMALL-STEMMED SUDANGRASS MAY		All FAL
BE SUBSTITUTED AT A RATE OF 50 lb/acre.		ET LT
$\begin{array}{r} \text{MOUNTAINS} - \text{MAY 15} - \text{AUG. 15} \\ \text{PIEDMOTNT} - \text{MAY 1} - \text{AUG. 15} \\ DIAMONTAL PROVIDENT OF A STATEMENT OF $		NHN 28/28/
SOIL AMENDMENTS: FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 lb/acre		N.O.
GROUND AGRICULTURAL LIMESTONE AND 750 lb/acre 10-10-10 FERTILIZER.		D, NN
APPLY 4,000 Ib/acre STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET		AN SI C
NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL. <u>MAINTENANCE:</u> REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEFD. REFERTILIZE		NC NC
AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.		
TEMPORARY SEEDING RECOMMENDATIONS FOR LATE WINTER AND EARLY SPRING		S. OF
SEEDING MIXTURE SPECIES RATE (Ib/acre) (Ib/1000 sf)		PEF ENT CILIT BLVI
RYE (GRAIN) 120 2.75 ANNUAL LESPEDEZA 50 1.15 (KORE IN PIEDMONT AND		RESIDING AZA
COASTAL PLAIN, KOREAN IN MOUNTAINS)		STEVE STEVE STE STE SPL SPL
OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE.		N-SATI
SEEDING DATES:		INE INT INE INE INE INE INE INE INE INE INE INE
BELOW 2,500 FEET: FEB. 1 - MAY 1 JAN. 1 - MAY 1		OV SEN VIN VIN
COASTAL PLAIN - DEC. 1 - APRIL 15 <u>SOIL AMENDMENTS:</u> FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 lb/gcre		
GROUND AGRICULTURAL LIMESTONE AND 750 lb/acre 10-10-10 FERTILIZER.		
APPLY 4,000 Ib/acre STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET		
NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL. <u>MAINTENANCE:</u> REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE RESERD REFERTILIZE		
AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.		
		D. NW 28420 7-5900
RMANENT SEEDING RECOMMENDATIONS FOR FALL AND	_	A
EDING MIXTURE		B RIV ASF
<u>CCIES RATE (Ib/acre) (Ib/1000 sf)</u> L FESCUE 80 1.84 NSACOLA BAHIAGRASS 50 1.15		ERS
RICEA LESPEDEZA 30 0.69 BE LESPEDEZA 10 0.23		CIN III
TOING NOTES: FROM SEPT. 1 THRU MAR. 1, USE UNSCARIFIED SERICEA SEED.		IGI 429 A
ON POORLY DRAINED SITES OMIT SERICEA AND INCREASE KOBE TO 30 Ibs/acre. WHERE A NEAT APPEARANCE IS DESIRED. OMIT SERICEA AND INCREASE		
KOBE TO 40 lbs/acre.		NG E 102
LET OR 15 Ibs/acre SUDANGRASS. PRIOR TO MAY 1 OR AFTER AUG. 15 0 25 Ibs/acre RYE (GRAIN).		Surra Surra
DING DATES: BEST POSSIBLE		SUJ SUJ NC 22 9653
L: SEPT. 1-SEPT. 30 SEPT. 1-OCT. 31 AMENDMENTS:		GATT ON, 101, 343
PLY LIME AND FERTILIZE ACCORDING TO SOIL TESTS, OR APPLY 3,000-5,000 /acre (68.9-114.8 lbs/1,000 sf) GROUND AGRICULTURAL LIMESTONE (USE LOWER RATE ON SANDY SOILS) AND 1,000 lbs/acre (22.9 lbs/1,000 sf)		RON C - C
-10-10 FERTILIZER.		
PLY 4,000 Ib/acre (91.8 Ibs/1,000 sf) GRAIN STRAW OR EQUIVALENT COVER ANOTHER SUITABLE MULCH. ANCHOR STRAW BY TACKING WITH ASPHALT, ITING, OR ROVING OR BY CRIMPING WITH A MULCH ANCHORING TOOL. A DISK		
H BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING		
GROWTH IS LESS THAN FULLY ADEQUATE, REFERTILIZE IN THE SECOND YEAR, CORDING TO SOIL TESTS OR TOPDRESS WITH 500 lbs/acre (11.5 lbs/1,000		
10-10-10 FERTILIZER. MOW AS NEEDED WHEN SERICEA IS OMITTED FROM MIXTURE. RESEED, FERTILIZE, AND MULCH DAMAGED AREAS IMMEDIATELY.		
RMANENT SEEDING RECOMMENDATIONS FOR LATE SPRING		Licence #C-3641
		23034
ICES RATE (Ib/acre) (Ib/1000 sf) NSACOLA BAHIAGRASS 50 1.15 RICEA LESPEDEZA 30 0.69		DES. JST
MMON BERMUDA 10 0.23 RMAN MILLET 10 0.23		drwn. TBM
EDING NOTES: WHERE A NEAT APPEARANCE IS DESIRED, OMIT SERICEA.		DATE 7/31/2
BECOME A PEST. BERMUDAGRASS MAY BE REPLACED WITH 5 Ibs/acre		AND CAP
EDING DATES: RIL 1-JULY 15		O OFESSION
L AMENDMENTS: PLY LIME AND FERTILIZE ACCORDING TO SOIL TESTS, OR APPLY 3,000 lbs/acre		SENI -
3.9 Ibs/1,000 st) GROUND AGRICULTURAL LIMESTONE AND 500 Ibs/acre (11.5 /1,000 st) 10—10—10 FERTILIZER. LCH:		NGINEER W
PLY 4,000 lb/acre (91.8 lbs/1,000 sf) GRAIN STRAW OR EQUIVALENT COVER ANOTHER SUITABLE MULCH. ANCHOR STRAW BY TACKING WITH ASPHALT,		Yang S. TUNS
THING, OK ROVING OR BY CRIMPING WITH A MULCH ANCHORING TOOL. A DISK TH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING OL.		
INTENANCE: FERTILIZE THE FOLLOWING APRIL WITH 50 Ibs/acre (1.15 Ibs/1,000 sf) ROGEN REPEAT AS CROWTH REQUIRES MAY BE NOWED ONLY ONCE A VELO		~
ERE A NEAT APPEARANCE IS DESIRED, OMIT SERICEA AND MOW AS OFTEN AS		1'h'
EDED.		







	1	2
D		
С		
B		
A	1	2



COVER SHEET

APPENDIX B

ROOF PLAN

PROCEDURE

SUPPORT

FINISH MATERIAL LEGEND

PAINT LEGEND & FINISH DETAILS

WALL PROTECTION PLAN - LEVEL 01

DOOR SCHEDULE DOOR TYPES AND DETAILS

FINISH FLOOR PLAN - LEVEL 01

FLOOR FINISH ASSUMPTIONS

LIFE SAFETY PLAN - LEVEL 01

INTERIOR PARTITION TYPES

FLOOR PLAN - LEVEL 01

SHEET LIST

01 GENERAL/LIFE SAFETY

Sheet Number

CS

G001

G002

G010

A001

A111

A112

A405

A800

A802

A810

A810A

A820

A900

00 COVER SHEET

04 ARCHITECTURE

Sheet Name

GENERAL INFORMATION AND SHEET INDEX

ENLARGED PLANS AND INTERIOR ELEVATIONS - ORS +

ENLARGED PLANS AND INTERIOR ELEVATIONS - SURGERY + SPD

ENLARGED PLANS AND INTERIOR ELEVATIONS - NURSE STATION

ENLARGED PLANS AND INTERIOR ELEVATIONS - PRE POST PACU +

ENLARGED PLANS AND INTERIOR ELEVATIONS - CHECK IN + LOBBY

5

LE ABILITIES ACT	
AL DEFIBRILLATOR	

FOB FACE OF BRICK FOG FACE OF GLASS FOS FACE OF SHEATHING FR FIRE RETARDANT TREATED FT FOOT, FEET FURR FURR(ED), (ING) FUT FUTURE FWCFABRIC WALL COVERING FWPFABRIC WRAPPED PANEL GA GAUGE GALV GALVANIZED GB GLASS BOARD GC GENERAL CONTRACTOR GL GLASS, GLAZING GR GROUT GRAN GRANITE GWB GYPSUM WALL BOARD GYP GYPSUM HC HOLLOW CORE HD HAND DRYER HDR HEADER HDW HARDWARE HGT HEIGHT HORIZ HORIZONTAL(LY) HR HOUR

HVAC HEATING, VENTILATION, AND AIR CONDITIONING HWD HARDWOOD IBC INTERNATIONAL BUILDING CODE ID INSIDE DIAMETER INCLINCLUDE(D), (ING)

INSUL INSULATE(D), (ING) INT INTERIOR JAN JANITOR'S CLOSET JT JOINT

KIT KITCHEN KPL KICK PLATE

LAM LAMINATE(D) LBL LABEL LCKR LOCKER

LIN LINOLEUM LT LIGHT LVL LAMINATED VENEER LUMBER LVT LUXURY VINYL TILE

MATL MATERIAL(S) MAXMAXIMUM MB MARKER BOARD

MIN MINIMUM MISC MISCELLANEOUS MP METAL PANEL **MTD MOUNTED**

MECH MECHANICAL

MTL METAL MULL MULLION MWK MILLWORK N NORTH

NIC NOT IN CONTRACT NO, # NUMBER NR NOISE REDUCTION

NTS NOT TO SCALE

A121 REFLECTED CEILING PLAN - LEVEL 01 A210 EXTERIOR ELEVATIONS A211 EXTERIOR ELEVATIONS A301 BUILDING SECTIONS A310 WALL SECTIONS WALL SECTIONS

A311 A401 A402 A403 A404

L LENGTH

MFR MANUFACTURE(R)

NRCNOISE REDUCTION COEFFICIENT



	1			2					
	APPENDIX B				Gross B (Floor, Existing Sq.Ft	iilding Area Table , New Sq.Ft., Sub-T	Fotal, Total)		
	FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)		FLOOR	EXISTING (S	Q FT)	NEW (SQ FT)		SUB TC	DTAL
	Name of Project: Novant ASC Leland Address: 9151 Ocean Highway E Leland, NC Zip Code: _28451 Proposed Use: Business - Ambulatory Care Facility		LEVEL 01	0 SF		16,647 SF		16,647	′ SF
	CONTACT:								
	DESIGNERFIRMNAMELICENSE #TELEPHONE #E-MAILArchitecturalLittleWilliam Mumford8284704-561-7572william.mumCivilNorris + TunstallJohn Tunstall910-343-9653jtunstall@nteElectricalSpecialized EngineeringSteven Handley704-348-3097shandley@sFire AlarmSpecialized EngineeringSteven Handley704-348-3097shandley@sPlumbingSpecialized EngineeringScott Cathey704-348-3097scathey@sMechanicalSpecialized EngineeringAndrea Thompson036968704-348-3097athompson@Sprinkler-StandpipeSpecialized EngineeringScott Cathey704-348-3097athompson@StructuralCitadel	nford@littleonline.com engineers.com specializedeng.com specializedeng.com @specializedeng.com @specializedeng.com @specializedeng.com	Primary Occupancy:	Assembly (303) Business (304) Educational (305) Factory (306) Hazardous (307) Institutional (308) Mercantile (309)	ALLO A-1 ALLO A-1 ALLO A-1 ALLO A-1 ALLO A-1	WABLE AREA A-2 F-2 Low H-2 Deflagrate 1 2 1 2 1 2 1 2 1 2	A-3] A-4 □ H-4 Healt	☐ A-5 th
	("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)			Residential (310) Storage (311)	R-1S-1 Moderate	□ R-2 □ S-2 Low	☐ R-3☐ High Piled	🗌 R-4	
	2018 NC BUILDING CODE: New Building Addition Renovation			Utility and Miscellaneous (312	Parking Garag	e 🗌 Open	Enclosed	🗌 Repair G	arage
С	Internation Computation Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements Phased Construction - Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements 2018 NC EXISTING BUILDING CODE: Existing: Prescriptive Repair Chapter 14 Alteration: Level I Level II Level III Level III Historic Property Change of Use CONSTRUCTED: (date) PROPOSED OCCUPANCY(S) (Ch.3): RISK CATAGORY (Table 1604.5): Current: I II III IV	<u>itional</u>	Accessory Occupancies: (<u><</u> 10%)	Assembly (303) Business (304) Educational (305) Factory (306) Hazardous (307) Institutional (308)	 A-1 A-1 F-1 Moderate H-1 Detonate I-1 Condition I-2 Condition I-3 Condition I-4 	A-2] A-3 [e] H-3 Combust 3] 4] 5] A-4 t	☐ A-5 lth ☐ H-5 HPM
	BASIC BUILDING DATA Construction Type: I-A II-A II-A (check all that apply) I-B II-B Sprinklers: No Partial Yes NFPA 13 Standpipes: No Yes Class: III III III III III-B V-B	irements)	Incidental Uses: (Furnace roo Rooms with Refrigerant r Hydrogen cu	Residential (310) Storage (311) Utility and Miscellaneous (312 Table 509) m where any piece of e boilers where the large machine room utoff rooms, not classifi	 R-1 S-1 Moderate Parking Garag Parking Garag Parking Garag Parking Garag 	☐ R-2 ☐ S-2 Low e ☐ Open 9,000 Btu per hour ir t is over 15 psi and	 R-3 High Piled Enclosed 	☐ R-4	Sarage
	PERCENTAGE OF WALL OPENING CALCULATIONS Allowable openings per Table 705.8				ACCES (SE	SIBLE PARKING CTION 1106)			
	FIRE SEPARATION DISTANCE (FT) FROM PROPERTY LINE DEGREE OF OPENINGS PROTECTION (TABLE 705.8) ALI AP CA (%) ACTUAL SH ON PLANS	HOWN S (%)	LOT OR PARKING AREA	TOTAL # OF PARK REQUIRED	KING SPACES PROVIDED R 5'	# OF ACCESSIBL EGULAR WITH ACCESS AISLE	E SPACES PROV VAN SPAC 132" ACCESS AISLE	VIDED CES WITH 8' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
В	LIFE SAFETY SYSTEM REQUIREMENTS Emergency Lighting: No Exit Signs: No Yes Fire Alarm: No Yes Smoke Detection Systems: No Yes Carbon Monoxide Detection:		USE	WATERCLOS MALE FEMALE UN	PLUMBING FIX (T/ ETS URINALS NISEX M	TURE REQUIREM BLE 2902.1) LAVATORIES ALE FEMALE U	ENTS SHOWER NISEX	S/ DRINKIN REGULAR	NG FOUNTAINS R ACCESSIBLE
	LIFE SAFETY PLAN REQUIREMENTS		NEW RQD	9 TOTAL 			────────────────────────────────────	1	1
	 Fire and/or smoke rated wall locations (Chapter 7) Assumed and real property line locations (if not on the site plan) Exterior wall opening area with respect to distance to assumed property lines (705.8) Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2) Occupant loads for each area Exit access travel distances (1017) 		Special approval:	(Local Jurisdiction, De	SPECI epartment of Insuranc DHSR	AL APPROVALS e, OSC, DPI, DHHS	S, ICC, etc., descril	be below)	
	Exit access travel distances (1017) Common path of travel distances (1006.2.1 & 1006.3.2(1)) Dead end lengths (1020.4) Clear exit widths for each exit door Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005 Actual occupant load for each exit door Actual occupant load for each exit door Correct Actual occupant of doors with electromagnetic egress locks (1010.1.9.7) Correct of doors with electromagnetic egress locks (1010.1.9.9) Cocation of doors equipped with hold-open devices Cocation of doors equipped with hold-open devices Cocation of emergency escape windows (1030) The square footage of each fire area (202) The square footage of each smoke compartment for Occupancy Classification I-2 (407.5) Note any code exceptions or table notes that may have been utilized regarding the items above	5.3)	ENERGY REQUIR The following data Each Designer sha annual energy cost Existing building Exempt Building: Climate Z Method o THERMAL ENVEL Roof/ceil Dr C Si	EMENTS: shall be considered mi all furnish the required p t for the standard refere envelope complies w NO Yes (fone: 3A formal and the standard refere and the standard refere mission of assembly (formal and the standard refere ASHR (If "Oth OPE (Prescriptive me ing Assembly (each a escription of assembly: -Value of total assembly: -Value of insulation: kylights in each assem U-Value of skylights and the standard standar	ENER	GY SUMMARY	to meet the energ plan data sheet. If e proposed design. emainder of this se criptive criptive	y code shall als performance m ction is not app	so be provided. hethod, state the plicable)
	1			2					

		(SECTION TIDO)			
L # OF PA	TOTAL #				
IRED	PROVIDED	REGULAR WITH	VAN SPAC	PROVIDED	
		5 ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE	
	86				6

VATERCL	OSETS	URINALS	L	AVATORIE	S	SHOWERS/	DRINKING	FOUNTAINS
FEMALE	UNISEX		MALE	FEMALE	UNISEX	TUBS	REGULAR	ACCESSIBLE
–9 TOTAL	ų	0	-	—7 TOTAL		1	1	1
–5 TOTAL		0	-	—4 TOTAL		0	1	1

urisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)	
DHSR	
ENERGY SUMMARY	
considered minimum and any special attribute required to meet the energy code shall also be the required portions of the project information for the plan data sheet. If performance method standard reference design vs annual energy cost for the proposed design.	provided. I, state the
e complies with code: 🗌 No 🗌 Yes (The remainder of this section is not applicable	e)
Yes (provide code or statutory reference):	_
3A 🗌 4A 🗌 5A	
ance: Energy Code 🗌 Performance 🗌 Prescriptive	
ASHRAE 90.1 🗌 Performance 🗌 Prescriptive	
(If "Other" specify source here)	_
rescriptive method only)	
mbly (each assembly)	
embly (each assembly) n of assembly:	
mbly (each assembly) n of assembly: total assembly:	
mbly (each assembly) n of assembly: total assembly: insulation:	
mbly (each assembly) n of assembly: itotal assembly: insulation: n each assembly: Walue of alkulight:	



			EN	IERGY SU	MMARY (co	nt'd)	
Exteri	or Walls (each a	assembly)					
	Description of a	assembly:					
	U-Value of tota	l assembly:					
	R-Value of insu	lation:					
	Openings (wind	lows or doo	rs with glazi	ng)			
	U-Value	of assembl	y:		-		
	Solar he	at gain coel	ficient:		-		
	Projectio	on factor: _			_		
	Door R-	Values: _			_		
Walls	below grade (ea	ach assemb	oly)				
	Description of a	assembly: _					
	U-Value of tota	l assembly:			_		
	R-Value of insu	lation:			_		
Floors	over uncondit	ioned spac	e (each ass	embly)			
	Description of a	assembly: _					
	U-Value of tota	l assembly:			_		
	R-Value of insu	lation:			_		
Floors	slab on grade						
	Description of a	assembly: _					
	U-Value of tota	l assembly:			_		
	R-Value of insu	lation:			_		
	Horizontal/verti	cal requirem	nent:		-		
	Slab heated:				-		
ESIGN LOAD	S:			STRUC	TURAL DES	IGN	
Import	tance Factors:	Snow	(I _S)				
		Seismic	(I_E)				
Live L	oads:	Roof			psf		
		Mezzanine	•		psf		
		Floor			psf		
Groun	d Snow Load:				psf		
Wind I	oad:	Ultimate W	ind Speed		— ' mph (AS)	CE-7)	
		Exposure	Category			021)	
			□ <u>∧</u>		_ 		
		I		ШВ			
	owing Seismic L						
RISK C	alegory (Table	1004.5)	ا ل_ ا	∟ II 0/ ~	L] III S	⊥⊥ I V	
Spect	ai kesponse A	cceleration	39	70 Q	31	70 U	

Spectral Response Acceleration	S _S	<u>%g</u>	S ₁	_%g ^v
Site Classification (ASCE 7)	□ A	В	□ C	🗌 D
Data Source:	🗌 Field Te	st	Presu	mptive
Basic structural system	Bearing	Wall	🗌 Dual v	/Special I
	🗌 Building	Frame	🗌 Dual v	/Intermed
	Moment	Frame	Inverte	ed Pendul
Analysis Procedure	Simplifie	ed	Equiva [] Force	alent Later
Architectural, Mechanical, Comp	onents and	hored?	Yes	🗌 No
LATERAL DESIGN CONTROL:	🗌 Earthqu	ake	Wind	
SOIL BEARING CAPACITIES:				
Field Test (provide copy o	f test report)	psf	
Presumptive Bearing capa	acity		psf	

Pile size, type, and capacity

FIRE PROTECTION REQUIREMENTS

(TABLE 601)

5

PLANS	CODE REFERENCE ¹	
504.4.		

BUILDING ELEMENT	FIRE	F	ATING	DETAIL	DESIGN #	SHEET # FOR	SHEET #
	SEPARATION DISTANCE	REQ'D	PROVIDED	# AND SHEET #	FOR RATED	RATED PENETRATION	FOR RATED
	(FEET)		REDUCTION)		ASSEMBLY		JOINTS
Structural Frame, including columns, girders, trusses							
Bearing Walls							
Exterior		0					
North		0					
East		0					
West		0					
South		0					
Interior		0					
Nonbearing Walls and Partitions							
Exterior Walls		0					
North		0					
East		0					
West		0					
South		0					
Interior walls and partitions		0					
Floor Construction Including supporting beams a	and joists	0					
Floor Ceiling Assembly		0					
Columns Supporting Floors		0					
Roof Construction Including supporting beams a	and joists	0					
Roof Ceiling Assembly		0					
Columns Supporting Roof		0					
Shaft Enclosures - Exit		0					
Shaft Enclosures - Other		0					
Corridor Separation		0					
Occupancy/Fire Barrier Separation		0					
Party/Fire Wall Separation		0					
Smoke Barrier Separation		1 HR					
Smoke Partition		0					
Tenant/Dwelling Unit/Sleeping Un	it Separation	0					
Incidental Use Separation		1 HR					
* Indicate section number permit	ting reduction			-	-	-	

Thermal Zone			
winter	dry bulb		
summ	er dry bulb		
Interior desigr	conditions		
winter	dry bulb		
summ	er dry bulb		
relativ	e humidity		
Building heati	ng load		
Building cooli	ng load		
Bunung ooon	-		
Mechanical Sp	acing Conditioning System		
Mechanical Sp Unitary	pacing Conditioning System		
Mechanical Sp Unitary de	eacing Conditioning System		
Mechanical Sp Unitar de he	acing Conditioning System / scription of unit:ating efficiency:		
Mechanical Sp Unitar de he cc	eacing Conditioning System / scription of unit: ating efficiency: oling efficiency:		
Mechanical Sp Unitary de he cc siz	Pacing Conditioning System		
Mechanical Sp Unitary de he cc siz Boiler	pacing Conditioning System		
Mechanical Sp Unitary de he cc siz Boiler Si	pacing Conditioning System / scription of unit: ating efficiency: oling efficiency: ze category of unit: ze category. If oversized, state reasor	·	
Mechanical Sp Unitary de he cc siz Boiler Si Chiller	pacing Conditioning System		

ELECTRICAL	. SUMMARY

ELECTRICAL SYSTEM AND EQU	IPMENT		
Method of Compliance:	Energy Code	Performance	Prescriptive
	ASHRAE 90.1	Performance	Prescriptive
Lighting schedule (each	fixture type)		
lamp type required	d in fixture		
number of lamps i	n fixture		
ballast type used i	n the fixture		
number of ballasts	s in fixture		
total wattage per f	ixture		
total interior watta	ge specified vs. a	allowed (whole buildir	ng or space by space)
total exterior watta	age specified vs.	allowed	
Additional Efficiency Pac (When using the 2018 NC	kage Options ECC; not requir	ed for ASHRAE 90.	1)
C406.2 More Effic	ient HVAC Equip	ment Performance	
C406.3 Reduced	Lighting Power D	ensity	
C406.4 Enhanced	Digital Lighting C	Controls	
C406.5 On-site R	enewable Energy		
C406.6 Dedicated	Outdoor Air Syst	tem	
C407.7 Reduced	Energy Use in Se	ervice Water Heating	

5

🗌 E 🔤 F Historical Data al Moment Frame ediate R/C or Special Steel ulum ateral 🗌 Model











	DEFLECTION	LIMIT OF L/240	DEFLECTION I	LIMIT OF L/3
WALL HEIGHT	WITHOUT SHELVING	WITH SHELVING	WITHOUT SHELVING	WITH SH
<10'	362S125-18	362S125-18	362S125-18	362S12
	16" O.C	16" O.C	16" O.C	16" C
<12'	362S125-18	362S125-33	362S125-18	362S12
	16" O.C	16" O.C	16" O.C	16" C
<14'	362S125-18	362S125-33	362S125-33	362S12
	16" O.C	16" O.C	16" O.C	16" C
<16'	362S125-33	362S125-33	362S125-54	362S12
	16" O.C	16" O.C	16" O.C	16" C
<18'	362S125-43	362S125-43	600S125-33	600S12
	16" O.C	16" O.C	16" O.C	16" C
<20'	362S125-68	362S125-68	600S125-33	600S12
	16" O.C	16" O.C	16" O.C	16" C
<u>NOTES:</u> 1. DESIGN L		5 PSF, AND NO VER	TICAL LOAD (NON-L	OAD-BEARI

EMBER WEB DEPTH = 600 x 1/100")	(600 § 162 -	FLANGE WIDTH (1-5/8" = 1.625 " = 162 x
YLE		MIL THICKNESS
= STUD OR JOIST SEC = TRACK SECTIONS	CTION	1 MIL = 1/1000")
= CHANNEL SECTION	S	18 MIL = 25 GA
FURRING CHANNEL	SECTIONS	27 MIL = 22 GA
		30 MIL = 20 GA (DRYW
		33 MIL = 20 GA (STRU
		43 MIL = 18 GA











Image: Constraint of the second se	POST 4 10 CT 9'-0" PRE (POST 5 111 ACT +9'-0" +9'-0"	PRE / POST 6 112 ACT +9'-0" AW-	PRE / POST 7 113 ACT +9'-0" 	PRE / POST 8 114 ACT +9'-0" 	PRE / POST-9 115 ACT +9'-0" 116
Image: second	Image: station Image: station Image: station Image: sta	Image: solution of the solution		S Image: Constraint of the second secon	TOILET 1 1 1 1 1 1 1 1 1 1 1 1 1
ACT +9'-0" GYP +8'-6" AC S GYP +8'-6" AC C AC AC AC C C C C C C C C C C C C		S GYP H8'-6" PACU 3 PACU 4 PACU 4<			ACT +9'-0" ANESTHESIA E STORAGE E 125 ACT +9'-0" ACT +9'-0" ACT +9'-0" ACT +9'-0"
EQUIPMEN ALCOVE 184 S DR CHARGE + RAD TECH 137 C ACT +9'-0" C C C C C C C C C C C C C		Image: Second	OPERATII ROOM 128 GYP +10'-0" EQUIPMENT ALCOVE	ACT +9'-0" () () () () () () () () () () () () ()	
	ALCOVE 134 PROCEDURE ROOM 135 9 (135 (135)				





E1	TILT-UP CONCRETE PANELS
E2	METAL PARAPET CAP
E3	TILT-UP PANEL REVEAL
E4	PANEL FINISH 1 (SMOOTH)
E5	PANEL FINISH 2 (TEXTURED)
E7	EXTERIOR DOOR
E8	PREFABRICATED CANOPY SUPPORTED FROM TILT-UP PANELS
E10	CURTAIN WALL SYSTEM
E11	1" INSULATED METAL PANEL INFILL
E12	METAL PANEL FASCIA
E13	1" INSULATED VISION GLASS
E14	STOREFRONT WINDOW ASSEMBLY
E15	METAL PANEL WALL SYSTEM (OR METAL PANEL ON TILT-UP CONCRETE PANEL BACKING)
E16	STONE VENEER ON METAL STUD WALL SYSTEM (OR STONE TEXTURE ON TILT-UP CONCRETE PANELS)
E17	ALL GLASS AUTOMATIC SLIDING DOOR SYSTEM
E18	STOREFRONT WINDOW ASSEMBLY W/SPANDREL GLAZING





E1	TILT-UP CONCRETE PANELS
E2	METAL PARAPET CAP
E3	TILT-UP PANEL REVEAL
E4	PANEL FINISH 1 (SMOOTH)
E5	PANEL FINISH 2 (TEXTURED)
E8	PREFABRICATED CANOPY SUPPORTED FROM TILT-UP PANELS
E9	4" HIGH X 8" WIDE OVERFLOW SCUPPER
E11	1" INSULATED METAL PANEL INFILL
E12	METAL PANEL FASCIA
E16	STONE VENEER ON METAL STUD WALL SYSTEM (OR STONE TEXTURE ON TILT-UP CONCRETE PANELS)









A4 Wall Section 3 1/2" = 1'-0"

A

- - - - - - - - <u>- - - - HIGH</u>ROOF 31'-0"





4	5







A2 INTERIOR ELEVATION - PROCEDURE - SOUTH 3/8" = 1'-0"



B2 INTERIOR ELEVATION - PROCEDURE - NORTH 3/8" = 1'-0"



PATIENT WARMER--SUPPLY CART-

C2 INTERIOR ELEVATION - OR - NORTH 3/8" = 1'-0"



D2 INTERIOR ELEVATION - OR - SOUTH 3/8" = 1'-0"



IV PUMP WITH STAND-

EQUIPMENT BOOM— COMPUTER ON WHEELS

(WITH 2 DRAWERS BELOW)

DRAWERS BELOW)

GENERAL

EQUIPMENT BOOM-

(WITH 2

SURGICAL TABLE

COMPUTER ON WHEELS

STATUS BOARD-

SUPPLY CART

3

A4 ENLARGED PLAN - PROCEDURE ROOM 3/8" = 1'-0"



5

C4 ENLARGED PLAN - OPERATING ROOM 3/8" = 1'-0"













4		5]
ELEVATION - NURSE STATION -	SINGLE MONITOR COMPUTER PHONE	SINGLE MONITOR COMPUTER PHONE =		
REF PHA UND PYX DRA ASH BIN TRUCK, BULK CART TRUCK ITRUCK ITRUCK	RIGERATOR, RMACEUTICAL, ERCOUNTER IS MEDICATION DISPENSER 4 WER CACTUS MEDS DISPOSAE A403 A1 A2 CC CC CC CC CC CC CC CC CC CC CC CC CC	CART, ANESTHESIA, 5 DRAWER MOBILE BEDSIDE TABLE (2) DRAWERS PYXIS AUXILIARY MEDICATION DISPENSER 7 DRAWER 1 A403 4 MEDS 179 PYXIS MEDSTATION DOUBLE PYXIS MEDSTATION DOUBLE PYXIS MEDSTATION DOUBLE	SUPPLY SHELVING	E
FRIGERATOR W/ TOP FREEZER NUGGET ICE MACHINE	PAPER TOWEL DISPENSER SOAP DISPENSER A403	COLUMN MAIN TOWER COLUMN MAIN TOWER ULTRASOUND, IMAGING, ULTRASOUND, IMAGING, MULTIPURPOSE, PORTABLE GAS CYLINDER 181 PRINTER, OFFICE OFFICE SJ/NGLE MONITOR COMPUTER	TV STATUS BOARD	A











SHARPS CONTAINER DISPENSER, HAND SANITIZER MODULAR HEADWALL





D





FLOOR & BASI	E		
TAG	DESCRIPTION	MANUFACTURER	COLLECTION / ITEM PRODUCT / MODEL NUMBER
WOM	WALK OFF MAT	MANNINGTON	RUFFIAN II
_VT 1	LUXURY VINYL TILE	TBD	\$8.00 MATERIAL ALLOWANCE
LVT 2	LUXURY VINYL TILE	TBD	\$8.00 MATERIAL ALLOWANCE
I VT 3		TBD	
NSSV-1	WELDED SHEET VINYL	COMMERCIAL	BIOSPEC MD HOMOGOENOUS SHEET
NSSV-2	WELDED SHEET VINYL	MANNINGTON COMMERCIAL	BIOSPEC MD HOMOGOENOUS SHEET
VSSV-3	WELDED SHEET VINYL	MANNINGTON COMMERCIAL	BIOSPEC MD HOMOGOENOUS SHEET
NSSV-4	WELDED SHEET VINYL	MANNINGTON COMMERCIAL	BIOSPEC MD HOMOGOENOUS SHEET
NSSV-R	WELDED SHEET VINYL RED FLOOR @ RESTRICTED AREA & EQUIPMENT	MANNINGTON COMMERCIAL	BIOSPEC MD HOMOGOENOUS SHEET
PORF 1	PORCELAIN TILE @ SINGLE TOILET LOCATIONS	DALTILE	TBD USE WITH G-1
PORF 2	PORCELAIN TILE	DALTILE	TBD
RB 1	@ CHANGING/SHOWER ROOM	JOHNSONITE	USE WITH G-1 MILLWORK BASE
	@ WAITING & PRE/POST/PACU PATIENT AREAS		
RB 2		JOHNSONITE	TRADITIONAL
RB 3	RUBBER BASE	JOHNSONITE	TRADITIONAL
50			
	@ ALL RESTRICTED AREAS	COMMERCIAL	
PORFB	PORCELAIN TILE BASE @ SINGLE TOILET LOCATIONS	DALTILE	TBD USE WITH G-1
WALLS			
TAG	DESCRIPTION	MANUFACTURER	COLLECTION / ITEM PRODUCT / MODEL NUMBER
PE,PF,PS,EP 0	BRANDING WALL COLOR	SHERWIN WILLIAMS	LOW VOC / SCRUBBABLE
PE,PF,PS,EP 1	GENERAL WALL COLOR	SHERWIN WILLIAMS	LOW VOC / SCRUBBABLE
PE,PF,PS,EP 2	DOOR / WINDOW FRAME & TRIM	SHERWIN WILLIAMS	LOW VOC / SCRUBBABLE
PE,PF,PS,EP 3	CEILING COLOR	SHERWIN WILLIAMS	LOW VOC / SCRUBBABLE
PE,PF,PS,EP 4	ACCENT	SHERWIN WILLIAMS	LOW VOC / SCRUBBABLE
PE,PF,PS,EP 5	ACCENT	SHERWIN WILLIAMS	LOW VOC / SCRUBBABLE
PE,PF,PS,EP 6	ACCENT	SHERWIN WILLIAMS	LOW VOC / SCRUBBABLE
PWT	PORCELAIN WALL TILE @ CHANGING/SHOWER ROOM	DALTILE	TBD USE WITH G-1
CEILING			
TAG	DESCRIPTION	MANUFACTURER	COLLECTION / ITEM PRODUCT / MODEL NUMBER
ACT 1	ACCOUSTICAL CEILING	ARMSTRONG	TEGULAR
ACT 2	ACOUSTICAL CEILING	ARMSTRONG	SQUARE LAY IN
		ARMSTRONG	
		ARMSTRONG	
GTP	GTP BOARD		: PREP/PAKCK; STERILIZERS; ?????
MILLWORK		T	
TAG	DESCRIPTION	MANUFACTURER	COLLECTION / ITEM PRODUCT / MODEL NUMBER
LAM 1	PLASTIC LAMINATE	NEVAMAR	RK7002T
LAM 2	PLASTIC LAMINATE	NEVAMAR	WX4600-VE
SSM 1	SOLID SURFACE	CORIAN	GC TO PROVIDE NATIONAL REGISTRATION # C-0014-1650
MISCELLANEC	DUS	1	
TAG	DESCRIPTION	MANUFACTURER	COLLECTION / ITEM PRODUCT / MODEL NUMBER
G-1	GROUT	MAPEI	KERAPOXY CQ
CG 1	90 DEGREE CORNER GUARDS WALL PROTECTION	CS ACROVYN	SM-20N
CG 1C	90 DEGREE CORNER GUARDS WALL PROTECTION	CS ACROVYN	SM-20N
CG 2	END WALL CORNER GUARDS WALL	CS ACROVYN	SSM-20AN WITH SHEET BACKER CUT TO SIZE
CG 3	130 DEGREE CORNER GUARDS WALL	CS ACROVYN	SM-20MN CUSTOM ANGLE
CG 4	140 DEGREE CORNER GUARDS	CS ACROVYN	SM-20MN CUSTOM ANGLE
CR 1	WALL PROTECTION CHAIR RAIL	CS ACROVYN	VERIFY ANGLE PRIOR TO ORDERING
WOOD STAIN			
MOOD STAIN			
SHADES			

D

Α

MANUAL BLINDS BLINDS

В

2

2" FAUX WOOD BLIND

SWF CONTRACT

2

3

1721843900 NH ASC MATERIAL FINISH LEGEND

				1	
/ MODEL NUMBER	COLOR / FINISH	SIZE	REMARKS / INSTALLATION METHOD	CONTACT INFO	REVS
	TAN TETONS 8404	24"x24"	MONOLITHIC	CHIP STACK (704) 506-4907	
ET	TBD	2 MM THICK	EXPOXY ADHESIVE REQUIRED IN ALL PRE/POST ROOMS; PACU	CHIP STACK (704) 506-4907	
		0-6 ROLLS	LOCATIONS		
ET	TBD	2 MM THICK	EXPOXY ADHESIVE REQUIRED IN ALL PRE/POST ROOMS; PACU	CHIP STACK (704) 506-4907	
		6'-6" ROLLS	ROOMS; OR & PROCEDURE ROOMS; LOCKER ROOMS AND ANY WEI LOCATIONS		
ET	ТВD	2 MM THICK	EXPOXY ADHESIVE REQUIRED IN ALL PRE/POST ROOMS; PACU	CHIP STACK (704) 506-4907	
		6'-6" ROLLS	ROOMS; OR & PROCEDURE ROOMS; LOCKER ROOMS AND ANY WET LOCATIONS		
ET	ТВD	2 MM THICK	EXPOXY ADHESIVE REQUIRED IN ALL PRE/POST ROOMS; PACU	CHIP STACK (704) 506-4907	
		6'-6" ROLLS	ROOMS; OR & PROCEDURE ROOMS; LOCKER ROOMS AND ANY WET LOCATIONS		
ET	RED	2 MM THICK	EXPOXY ADHESIVE REQUIRED IN ALL PRE/POST ROOMS; PACU	CHIP STACK (704) 506-4907	
		6'-6" ROLLS	ROOMS; OR & PROCEDURE ROOMS; LOCKER ROOMS AND ANY WET LOCATIONS		
	TBD	12"x 24"	MUST USE "SINGLE SOURCE SUPPLY" FOR GROUT AND SETTING	JONATHAN STUDIOSO (704) 516-6310	
				JONATHAN.STUDIOSO@DALTILE.COM	
	TBD	2" x 2" MOSAIC	MUST USE "SINGLE SOURCE SUPPLY" FOR GROUT AND SETTING MATERIALS.	JONATHAN STUDIOSO (704) 516-6310 JONATHAN.STUDIOSO@DALTILE.COM	
	TBD	4" HIGH		ROB HOFFMAN (412) 855-4377 OR EMMA MALTBA (910) 988-4167	
	TBD	4" HIGH CONTINUOUS ROLL		ROB HOFFMAN (412) 855-4377 OR EMMA MALTBA (910) 988-4167	
	MOON ROCK #29	6" HIGH		ROB HOFFMAN (412) 855-4377	
		CONTINUOUS ROLL		OR EMMA MALTBA (910) 988-4167	
	TBD			CHIP STACK (704) 506-4907	
	TBD	6" HIGH CONTINUOUS ROLL	MUST USE "SINGLE SOURCE SUPPLY" FOR GROUT AND SETTING MATERIALS.	JONATHAN STUDIOSO (704) 516-6310 JONATHAN.STUDIOSO@DALTILE.COM	
/ MODEL NUMBER		SIZE			REVS
	CUSTOM SHERWIN WILLIA		EGGSHELL	BROWN (980) 216-9211	
	MODERNE WHITE SW6168		EGGSHELL (EPOXY IN WET LOCATIONS)	BEN NORMAN (336) 486-5472 OR STUART BROWN (980) 216-9211	
	PURE WHITE SW7005		SEMI GLOSS	BEN NORMAN (336) 486-5472 OR STUART	
	PEACOCK PLUME SW0020		ΕΙ ΑΤ	BROWN (980) 216-9211 BEN NORMAN (336) 486-5472 OR STUART	
				BROWN (980) 216-9211	
	PEACOCK PLUME SW0020		EGGSHELL (EPOXY IN WET LOCATIONS)	BEN NORMAN (336) 486-5472 OR STUART BROWN (980) 216-9211	
	FESTOON AQUA SW0019		EGGSHELL (EPOXY IN WET LOCATIONS)	BEN NORMAN (336) 486-5472 OR STUART	
	QUIETUDE SW6212		EGGSHELL (EPOXY IN WET LOCATIONS)	BEN NORMAN (336) 486-5472 OR STUART	
			,	BROWN (980) 216-9211	
	TBD		MUST USE "SINGLE SOURCE SUPPLY" FOR GROUT AND SETTING MATERIALS.	JONATHAN STUDIOSO (704) 516-6310 JONATHAN.STUDIOSO@DALTILE.COM	
/ MODEL NUMBER	COLOR / FINISH	SIZE	REMARKS / INSTALLATION METHOD	CONTACT INFO	REVS
	WHITE	24" X 24" X 3/4"		KAITLYN MALONEY (717) 396-5972	
QUIREMENTS FOR SPECIAL AREAS SUCH AS DECONTAMINATION					
?					
				1	
/ MODEL NUMBER	COLOR / FINISH	SIZE	REMARKS / INSTALLATION METHOD	CONTACT INFO	REVS
	VETO PROOF		HORIZONTAL SURFACES	BETTY GERULA (704) 614-3985	
	WHISPERING WIND		VERTICAL SURFACES / BRANDING DESK	BETTY GERULA (704) 614-3985	
TRATION # C-0014-1650	CLAM SHELL		TRANSACTION TOPS	BARBARA DAVIS (704) 301-8078 OR JASON	
				GRAHAM (919) 623-9917	
	1	1		1	
/ MODEL NUMBER	COLOR / FINISH	SIZE	REMARKS / INSTALLATION METHOD	CONTACT INFO	REVS
				TIM IRVIN (336) 682-6725 TIRVIN@MAPEI.COM	
	TBD	3" LEG	REGRIND PETG RETAINER	ROD WORKMAN (704) 727-2066	
		3" I EG	TBD	RODD@SPECPRO.US	
		8'-0' HIGH		RODD@SPECPRO.US	
UT TO SIZE	TBD	2" LEG 8'-0" HIGHT	ALUMINUM RETAINER	ROD WORKMAN (704) 727-2066 RODD@SPECPRO.US	
NG	TBD	3" LEG 8'-0' HIGH	ALUMINUM RETAINER	ROD WORKMAN (704) 727-2066	
	ТВD	3" LEG	ALUMINUM RETAINER	ROD WORKMAN (704) 727-2066	
NG		8'-0' HIGH		RODD@SPECPRÒ.UŚ	
				ROD WORKMAN (704) 727-2066 RODD@SPECPRO.US	
N SLICED	BOMBAY 64-02				
	FASCIA TO MATCH	VARIEO		AGROVE@INPROCORP.COM	

NT	ERIOR DESIGN GENERAL NOTES
А	ALL AREAS MUST BE FIELD VERIFIED AS REQUIRED. DO NOT SCALE THE DRAWINGS.
В	ALL INTERIOR FINISHES SHALL COMPLY WITH TABLE 803.3 OF THE INTERNATIONAL FIRE CODE (IFC). ALL INTERIOR FINISHES SHALL MEET REQUIREMENTS NOTED IN THE INTERNATIONAL BUILDING CODE TABLE 803.13, SECTION 803, 804 AND SECTION 806.
С	CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY OF HIS MEASUREMENTS AND TOTAL YARDAGE REQUIREMENTS TO BE FURNISHED. NO REQUESTS FOR MATERIALS OR INSTALLATION EXTRAS WILL BE CONSIDERED DUE TO MEASUREMENT OR TAKEOFF ERRORS BY CONTRACTOR.
D	SUBMIT FINISH SUBMITTALS TO ARCHITECT FOR REVIEW & APPROVAL PRIOR TO ORDERING & INSTALLATION. SUBMIT ALL FINISH SAMPLES TOGETHER IN ONE SUBMITTALS PACKAGE.
Ε	REFER TO MANUFACTURER'S INSTRUCTIONS FOR RECOMMENDED SURFACE PREPARATION & RECOMMENDED INSTALLATION METHODS OF ALL SCHEDULED MATERIALS.
F G	CONTRACTOR TO PROVIDE MANUFACTURER REQUIRED SUBSTRATE UNDER ALL FINISHED SURFACES. CONTRACTOR TO ENSURE THAT ALL SURFACES TO RECEIVE FINISHES ARE CLEAN, TRUE AND ANY UNEVEN CONDITION HAVE BEEN CORRECTED. START OF WORK INDICATES APPLICATOR'S ACCEPTANCE OF SUBSTRATE.
Н	ALL WORK BY OTHERS SHALL BE ADEQUATELY PROTECTED AGAINST DAMAGE FROM A FINISH MATERIAL INSTALLATION.
I	REFER TO INTERIOR FLOOR AND WALL FINISH PLANS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
J	ALL DIMENSIONS ON INTERIOR DESIGN DRAWINGS ONLY ARE FROM THE FACE OF NEW GYP. BOARD WALLS TO CENTER OF DIMENSIONED OBJECT OR EDGE OF FINISH TRANSITION. UNLESS NOTED OTHERWISE.
К	PROVIDE CRACK SUPPRESSION AT ALL CONCRETE CONTROL JOINTS, EXPANSION JOINTS AND AT LOCATIONS RECOMMENDED BY T.C.N.A.
L	COLD AND CONTROL JOINTS SHOULD BE CRACK ISOLATED THREE TIMES THE WIDTH OF THE TILE. PROVIDE SOFT JOINTS ON EITHER SIDE. TRUE EXPANSION JOINTS SHOULD BE HONORED THROUGH THE TILE INSTALLATION AS REFERENCED BY THE T.C.N.A. EJ171 MOVEMENT JOINT GUIDELINES FOR CERAMIC, GLASS AND STONE. USE SCHLUTER DILEX AKSN (ALUMINUM).
М	ALL TILE FLOORING SELECTIONS, PATTERNS, GROUT JOINTS, BASE AND BULLNOSE TO BE COORDINATED WITH, SELECTED & APPROVED BY LITTLE.
Ν	EPOXY GROUT TO BE USED IN ALL TILE FLOOR LOCATIONS.
O P	CONTINUE FLOORING MATERIAL AS SCHEDULED UNDER CASEWORK. SUBMIT CARPET, TILE AND SHEET VINYL SEAMING DIAGRAMS TO LITTLE FOR REVIEW AND APPROVA PRIOR TO ORDERING & INSTALLATION.
Q	WHERE FLOORING TYPES CHANGE OR WHERE FLOORING MATERIAL STYLES CHANGE USE ADA COMPLIANT TRANSITION STRIPS UNLESS NOTED OTHERWISE.

- R FEATHER FLOORING AS REQUIRED ENSURING A LEVEL ADA COMPLIANT TRANSITION BETWEEN MATERIALS OF VARYING THICKNESS. TRANSITION BETWEEN MATERIALS OF VARYING THICKNESS. TRANSITION FINISHES AT CENTER OF DOOR IF POSSIBLE. COORDINATE LOCATIONS WITH ARCHITECT. S ALL INTERIOR DOOR FRAMES ARE TO BE PAINTED SEMI GLOSS FINISH (PS 2) EXCEPT WHERE NOTED.
- T PE, PF, PS, EP SAME PAINT COLOR JUST DIFFERENT FINISH
- U ALL WALLS TO BE PAINTED AN EGGSHELL FINISH, UNLESS NOTED OTHERWISE.
- V ALL TRIM TO BE PAINTED A SEMI-GLOSS FINISH, UNLESS NOTED OTHERWISE.
- W EPOXY PAINT TO BE USED IN RESTROOMS AND WET AREAS AS NOTED ON ROOM FINISH SCHEDULE.
- X ALL CEILINGS TO BE PAINTED A FLAT FINISH, UNLESS NOTED OTHERWISE. Y ALL ACCESS PANELS (WALL AND CEILING) TO BE PAINTED TO MATCH ADJACENT FINISH. Z ALL SURFACES OR ELEMENTS THAT ARE SPECIFIED TO RECEIVE PAINT ARE TO HAVE (1) PRIME COAT &

- (2) FINISH COATS, UNLESS NOTED OTHERWISE. BB SEE REFLECTED CEILING PLANS FOR CEILING HEIGHTS, TYPES AND MORE INFORMATION
- CC BASE IN TOILETS TO BE 6" HIGH, TYPICAL





23		
	TWO FINISH COATS CONACT R, PROMAR 200 ZERO-VOC INTERIOR LATEX FLAT, B30-2600 RUSS HANSEN (980) 207-9410 RUSSELLE.HANSEN@SHERWIN. OM R, PROMAR 200 HP ZERO VOC INTERIOR ACRYLIC EG-SHEL, B20-1900 RUSS HANSEN (980) 207-9410 RUSSELLE.HANSEN@SHERWIN. OM R, PRO INDUSTRIAL PRE-CATALYZED EPOXY EG-SHELL, K45-1150 RUSS HANSEN (980) 207-9410 RUSSELLE.HANSEN@SHERWIN. OM R, PRO INDUSTRIAL WATERBASED CATALYZED EPOXY EG-SHELL, K45-1150 RUSS HANSEN (980) 207-9410 RUSSELLE.HANSEN@SHERWIN. OM R, PRO INDUSTRIAL WATERBASED CATALYZED EPOXY EG-SHELL, B73-360 SERIES RUSS HANSEN (980) 207-9410 RUSSELLE.HANSEN@SHERWIN. OM PRO INDUSTRIAL WB ALKYD URETHANE SEMI-GLOSS B53-1150 SERIES RUSS HANSEN (980) 207-9410 RUSSELLE.HANSEN@SHERWIN. OM SERIES PRO INDUSTRIAL WB ALKYD URETHANE SEMI-GLOSS, B53-1150 SERIES RUSS HANSEN (980) 207-9410 RUSSELLE.HANSEN@SHERWIN. OM S0 SUPERIORPAINT EXTERIOR LATEX FLAT, A80 SERIES RUSS HANSEN (980) 207-9410 RUSSELLE.HANSEN@SHERWIN. OM	
	TWO FINISH COATS	CONACT
NTERIOR LATEX PRIMER,	PROMAR 200 ZERO-VOC INTERIOR LATEX FLAT, B30-2600	RUSS HANSEN (980) 207-9410 RUSSELL.E.HANSEN@SHERWIN.(OM
NTERIOR LATEX PRIMER,	PROMAR 200 HP ZERO VOC INTERIOR ACRYLIC EG-SHEL, B20-1900	RUSS HANSEN (980) 207-9410 RUSSELL.E.HANSEN@SHERWIN.(OM
NTERIOR LATEX PRIMER,	PRO INDUSTRIAL PRE-CATALYZED EPOXY EG-SHELL, K45-1150 SERIES	RUSS HANSEN (980) 207-9410 RUSSELL.E.HANSEN@SHERWIN. OM
NTERIOR LATEX PRIMER,	PRO INDUSTRIAL WATERBASED CATALYZED EPOXY EG-SHELL, B73-360 SERIES	RUSS HANSEN (980) 207-9410 RUSSELL.E.HANSEN@SHERWIN.(OM
PRIMER B28W08111	PRO INDUSTRIAL WB ALKYD URETHANE SEMI-GLOSS B53-1150 SERIES	RUSS HANSEN (980) 207-9410 RUSSELL.E.HANSEN@SHERWIN.(OM
L PRIMER B66-1300 SERIES	PRO INDUSTRIAL WB ALKYD URETHANE SEMI-GLOSS, B53-1150 SERIES	RUSS HANSEN (980) 207-9410 RUSSELL.E.HANSEN@SHERWIN.(OM
ONRY PRIMER LX02W50	SUPERIORPAINT EXTERIOR LATEX FLAT, A80 SERIES	RUSS HANSEN (980) 207-9410 RUSSELL.E.HANSEN@SHERWIN.(OM

INTERIOR DESIGN GENERAL NOTES

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- M ALL TILE FLOORING SELECTIONS, PATTERNS, GROUT JOINTS, BASE AND BULLNOSE TO BE COORDINATED WITH, SELECTED & APPROVED BY LITTLE.
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- O CONTINUE FLOORING MATERIAL AS SCHEDULED UNDER CASEWORK.
- P SUBMIT CARPET, TILE AND SHEET VINYL SEAMING DIAGRAMS TO LITTLE FOR REVIEW AND APPROVAL PRIOR TO ORDERING & INSTALLATION.
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- Y ALL ACCESS PANELS (WALL AND CEILING) TO BE PAINTED TO MATCH ADJACENT FINISH.
 Z ALL SURFACES OR ELEMENTS THAT ARE SPECIFIED TO RECEIVE PAINT ARE TO HAVE (1) PRIME COAT &
- (2) FINISH COATS, UNLESS NOTED OTHERWISE.BB SEE REFLECTED CEILING PLANS FOR CEILING HEIGHTS, TYPES AND MORE INFORMATIONCC BASE IN TOILETS TO BE 6" HIGH, TYPICAL





			4 4 4 A	
PRE / POST 3	PRE/POST4	PRE / POST 5	PRE / POST 6	PRE / POST 7

PRELIMINARY FLOOR PATTERN PLAN FOR REFERENCE ONLY.











	1						2						3		
				1			٦₽		DOOR	SCHEDULE	RAME				
	Mark	From Room: Name	To Room: Name	Width	Height	# of Panels	Туре	Material	Frame Type	Material	Head	Jamb	Fire Rating	Hardware Set Comments	
	LEVEL 01 100	VESTIBULE		9'-7"	7'-4 3/4"	2	GS	ALUM/GLASS		ALUM					
	101 102	VESTIBULE CORRIDOR	WAITING (31) WAITING (31)	9'-7" 3'-6"	7'-4 3/4" 7'-0"	2	GS F	ALUM/GLASS WOOD	 F1	ALUM HM	H1	J1		CARD READER	
	103 106A	CORRIDOR WAITING (31)	WORK CONSULT	3'-0" 3'-0"	7'-0" 7'-0"		F	WOOD WOOD	F1	HM	H1 H1				
	106B	CORRIDOR	CONSULT	3'-0"	7'-0"		NL	WOOD	F1	HM	H1			CARD READER	
	108	CORRIDOR	TOILET	3'-0"	7'-0"		F	WOOD	F3	HM	H1			EMERGENCY RESCUE HARDWARE	
	110	PRE / POST 3 PRE / POST 4	CORRIDOR	8'-0"	7'-0" 7'-0"		ICU	ALUM/GLASS ALUM/GLASS		ALUM					
	111 112	PRE / POST 5 PRE / POST 6	CORRIDOR CORRIDOR	8'-0" 8'-0"	7'-0" 7'-0"			ALUM/GLASS ALUM/GLASS		ALUM ALUM					
	113 114	PRE / POST 7 PRE / POST 8	CORRIDOR CORRIDOR	8'-0" 8'-0"	7'-0" 7'-0"		ICU ICU	ALUM/GLASS ALUM/GLASS		ALUM ALUM					
	115 116	PRE / POST 9 LINEN	CORRIDOR CORRIDOR	8'-0" 3'-6"	7'-0" 7'-0"		ICU F	ALUM/GLASS WOOD	 F1	ALUM HM			 45 Min		
	117	TOILET	CORRIDOR STAFE TOIL FT	3'-0" 3'-0"	7'-0" 7'-0"		F	WOOD	F3	HM	H1 H1			EMERGENCY RESCUE HARDWARE	NOTE
	119A	CORRIDOR	DISCHARGE	3'-6"	7'-0"		FG	WOOD/GLASS	F2	HM					1. RATED GLASS 2. 1/4" TEMPERED
	119B		DISCHARGE	7'-8 7/16"	7'-3 1/2"	2	GS	ALUM/GLASS		ALUM					SEE SCHEDU
	120	CORRIDOR	EVS	3'-0"	7'-0"		F	WOOD	F1	НМ	H1			CARD READER	
	123		OFFICE	J-U 5' 6"									20 14:		EDULE
	124			0-0 6' 0"		2								LITE ON LARGER LEAF	SEE SCHI
	107			0-0 <u>/' 0"</u>		۲ 	F								
	127	CORRIDOR		4 -0 6'-0"	7'-0"	2	UL	WOOD	F1	НМ					FLUSH
	131	CORRIDOR	OPERATING	6'-0"	7'-0"	2	UL	WOOD	F1	НМ					SEE SCHEDU
	132	CORRIDOR	PROCEDURE	6'-0"	7'-0"	2	UL	WOOD	F1	НМ					
	135	CORRIDOR	PROCEDURE	6'-0"	7'-0"	2	UL	WOOD	F1	НМ					EDULE
\mathbf{C}	139	CORRIDOR		6'-0"	7'-0"	2	UL	WOOD	F1	HM			45 Min		SEE SCH
C	140	CORRIDOR	PREP/PACK	3'-6"	7'-0"		F	WOOD	F1	НМ	H1				
	141 143	STERILIZERS EVS	PREP/PACK CORRIDOR	3'-6" 3'-0"	7'-0" 7'-0"		F	WOOD WOOD	F1 F1	HM HM	H1 H1				FULL GLAS
	144	CORRIDOR	DECONTAMINATI ON	3'-6"	7'-0"		F	WOOD	F1	НМ	H1				
	145A 145B	CORRIDOR	SOILED HOLDING	3'-6" 3'-6"	7'-0" 7'-0"		F F	WOOD HM	F1 F1	HM HM			45 Min 45 Min	CARD READER	C4 <u>REFERENC</u> 1/4" = 1'-0"
	146		DI WATER / BOILER / VACUUM	6'-0"	7'-0"	2	F	HM	F1	HM				KEY	
	148		PUMP MED GAS	4'-0"	7'-0"		F	HM	F1	HM			45 Min	KEY	
	149 150A	CORRIDOR CORRIDOR	DICTATION MALE LOCKERS	3'-0" 3'-0"	7'-0" 7'-0"		F F	WOOD WOOD	F1 F1	HM HM	H1 H1				
	150B 151	CORRIDOR CORRIDOR	MALE LOCKERS	3'-0" 3'-0"	7'-0" 7'-0"		F	WOOD WOOD	F1	HM HM	H1 H1			KEY	
	152A	ELECTRICAL	ELECTRICAL	3'-0"	7'-0"		F	WOOD	F1	НМ	H1				
	152B		ELECTRICAL	3'-0"	7'-0"		F	HM	F1	HM	H1			CARD READER	
	153A	FEMALE LOCKERS	CORRIDOR	3'-0"	7'-0"		F	WOOD	F1	НМ	H1				
	153B	CORRIDOR	FEMALE LOCKERS	3'-0"	7'-0"		F	WOOD	F1	HM	H1				
	154A 154B	CORRIDOR	CORRIDOR	3'-0" 3'-6"	7'-0" 7'-0"		F	WOOD	F1	HM	H1		20 Min		
	155A	CORRIDOR	CORRIDOR	3'-6"	7'-0"		F	WOOD	F1	HM	H1			CARD READER	
	155B 156	CORRIDOR	BULK STORAGE	3'-6"	7'-0"		F	WOOD	F1	HM			45 Min		
B	157	CORRIDOR	RECEIVING / VENDOR / SPECIMEN PICK	3'-6"	/'-0"		F	WOOD	F1	HM	H1				
	150			3'_0"	7'_∩"		F	WOOD	F 1	ШЛЛ	<u></u> µ1				
	160			3-0 3'-0"	7'-0"		F	WOOD	F1		H1			CARD READER	
	161 162	STAFF LOUNGE	E LACTATION	3'-0" 3'-0"	7'-0" 7'-0"		F	WOOD	⊢1 F1	HM HM	H1 H1				
	163 164	CORRIDOR CORRIDOR	ADMIN OFFICE SUPERVISOR	3'-0" 3'-0"	7'-0" 7'-0"		F	WOOD WOOD	F1 F1	HM HM	H1 H1				
	167	CORRIDOR	OFFICE PRE / POST 2	8'-0"	7'-0"		ICU	ALUM/GLASS		ALUM					
	168 177A	CORRIDOR NURSE	PRE / POST 1 CLEAN	8'-0" 3'-0"	7'-0" 7'-0"		ICU F	ALUM/GLASS WOOD	 F1	ALUM HM	H1				
	177B	STATION NURSE	CLEAN	3'-0"	7'-0"		F	WOOD	F1	HM	H1				
	178	STATION CORRIDOR	SOILED	3'-6"	7'-0"		F	WOOD	F1	HM			45 Min	CARD READER	
	179A 179B	CORRIDOR NURSE	MEDS MEDS	3'-0" 3'-0"	7'-0" 7'-0"		F	WOOD WOOD	F1 F1	HM HM	H1 H1			CARD READER CARD READER	_
	180A	STATION CORRIDOR	EQUIPMENT	3'-6"	7'-0"		F	WOOD	F1	HM			45 Min		H1
	180B	NURSE	EQUIPMENT	3'-6"	7'-0"		F	WOOD	F1	HM			45 Min		2"
	182	CORRIDOR	CORRIDOR	5'-6"	7'-0"	2	UL-NL	WOOD	F1	HM			20 Min	AUTOMATIC OPERATOR, CARD READER, DELAYED EGRESS, PROVIDE NARROW LITE ON LARGER LEAF	\star
	183	CORRIDOR	CHANGING / SHOWER	3'-0"	7'-0"		F	WOOD	F1	HM	H1				
	L	1	I	1	1		1	1	1	<u> </u>	I	I		· · · · · · · · · · · · · · · · · · ·	



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1. CAULK DOOR JAMBS AND HEADS AT DOORS LOCATED IN WALLS TO BE SOUND INSULATED.

- 2. HOLLOW METAL DOOR FRAMES TO BE FULLY WELDED FRAMES.
- 3. CAULK DOOR JAMBS AND HEADS WHERE GAPS, BETWEEN WALL AND FRAME EXCEEDS 1/16". 4. PROVIDE (3) JAMB AND (1) BASE ANCHOR PER JAMB AT GYP. BOARD PARTITIONS.
- 5. DOORS SHALL OPERATE FREELY WITHOUT BINDING. 6. FRAME ROUGH OPENINGS AS RECOMMENDED BY METAL STUD MFR. AND DOOR FRAME MFR.
- 7. PROVIDE ANCHORS AND ACCESSORIES AS REQ'D. FOR CONDITIONS & PER MFR. RECOMMENDATIONS. 8. DOOR FRAMES SHALL BE SECURED RIGIDLY IN PLACE AND BRACED TO FLOOR AND STRUCTURE ABOVE TO PREVENT BREAK OUT TO PARTITIONS.
- 9. DOORS TO BE LOCATED 6" FROM FACE OF WALL INCLUDING DOOR FRAME, U.O.N. 10. ERECT ALL DOOR FRAMES AND ADJACENT WALLS TO CONFORM TO THE APPLICABLE PLAN CONFIGURATION. NOTIFY LITTLE OF ANY CONFLICTS PRIOR TO
- INSTALLATION OF DOOR FRAMES AND ADJACENT WALLS DURING TRACK LAYOUT. 11. COORDINATE WITH SECURITY SYSTEM, SECURITY RISER DIAGRAM AND FIRE ALARM SYSTEM.
- 12. CONFIGURE CURTAIN WALL/STOREFRONT SYSTEM TO ACCOMMODATE CONDUIT FOR SECURITY DEVICES.
- 13. DOOR UNDERCUTS SHALL BE KEPT TO A MINIMAL DIMENSION AND SHALL BE UNIFORM THROUGHOUT PROJECT, U.O.N. 14. BOTH SIDES OF ALL EXTERIOR DOORS SHALL HAVE THE SAME ELEVATION WITH
- NO MORE THAN 1/2" DIFFERENCE ON EITHER SIDE. 15. INSTALLATION OF ALL DOORS AND HARDWARE SHALL MEET MINIMUM ADA
- REQUIREMENTS.



E - DOOR TYPES



C5 REFERENCE - FRAME TYPES 2 1/4" = 1'-0"






CTION	CONTINUOUS	PERIODIC
<u>IN-WEB STEEL</u> DERS:		
VELDING OR	<u> </u>	X
HORIZONTAL		Х
	CTION:	
CTION	CONTINUOUS	PERIODIC
IENT, INCLUDING DNS, AND VERIFY		х
ST IN		Х
NCHORS POST- ED CONCRETE		
S INSTALLED IN WARDLY NS TO RESIST OADS	х	
ORS AND OT DEFINED IN		x
QUIRED		Х
PLACEMENT, S FOR RFORM SLUMP STS, AND ERATURE OF	х	
ND SHOTCRETE PER QUES	х	
OF SPECIFIED E AND		х
F PRECAST		Х
FOR SHAPE,		×

-					
	SOILS:				
	VERIFICATION & INSPECTION	CONTINUOUS	PERIODI		
	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY		х		
	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		Х		
	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		Х		
	VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	х			
	PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED		x		





2 EXTERIOR WALL FOUNDATION - MEADOW BURKE SUPER LYNK 3/4" = 1'-0"



3 RECESSED SLAB DETAIL 3/4" = 1'-0"



4 REINFORCEMENT DETAIL AT 4" CONCRETE PAD 3/4" = 1'-0"







¹ ENTRY HIGH ROOF FRAMING PLAN 1/8" = 1'-0"



4 ENTRY CANOPY & VESTIBULE FRAMING PLAN 1/4" = 1'-0"



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2 ENTRY CANOPY FRAMING PLAN
1/8" = 1'-0"
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3 ENTRY CLERESTORY GLASS SUPPORTS 1/8" = 1'-0"









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GENERAL W	ECHANICAL STWDOLS
ESCRIPTION	ADDITIONAL REMARKS
HEET NOTE IPING SOLID LINE INDICATES SYSTEM SUPPLY	DENOTES SPECIFIC REQUIREMENT FOR THE SHEET ON WHICH THE NOTE APPEARS AND IS USED TO DESCRIBE WORK THAT IS TOO LENGTHY TO PLACE ON PLAN. NUMBER INDICATES NOMINAL DIAMETER IN INCHES, LETTER(S) INDICATES SYSTEM. DEFERENCE APPREVIATIONS FOR SYSTEM TYPE
ENOTES CONNECTION OF NEW WORK TO	PROTECT EXISTING SYSTEM FROM ENTRANCE OF FOREIGN DEBRIS DURING WORK
RROW INDICATES DIRECTION OF FLOW IN PIPING	
RROW INDICATES DOWNWARD PIPE SLOPE	WHERE PIPING IS NOT MARKED, REFER TO SPECIFICATIONS FOR REQUIREMENTS
SOLATION VALVE	REFER TO SPECIFICATIONS FOR TYPE BASED ON SIZE AND SYSTEM
HECK VALVE OR BACKWATER VALVE	REFER TO SPECIFICATIONS FOR TYPE BASED ON SIZE AND SYSTEM
IPE IN SLEEVE	REFER TO SPECIFICATIONS FOR TYPE BASED ON SIZE AND SYSTEM
	CIRCUIT SETTER, AUTOFLOW, ETC.
	REFER TO SPECIFICATIONS FOR TYPE BASED ON SIZE AND SYSTEM
EE UP	
EE DOWN EE HORIZONTAL	
IPE REDUCER	INDICATES POINT WHERE PIPING CHANGES FROM ONE SIZE TO ANOTHER. SMALL POINT OF ARROW INDICATES SMALLER SIZE SIDE OF TRANSITION.
NION	
STRAINER WITH BLOWDOWN	REFER TO SPECIFICATIONS FOR TYPE AND ACCESSORIES
STRAINER	
RESSURE GAUGE	REFER TO SPECIFICATIONS FOR TYPE AND ACCESSORIES
RESSURE GAUGE STEAM	REFER TO SPECIFICATIONS FOR TYPE AND ACCESSORIES
HERMOMETER - HORIZONTAL PIPE	REFER TO SPECIFICATIONS FOR TYPE AND ACCESSORIES
HERMOMETER - VERTICAL PIPE	REFER TO SPECIFICATIONS FOR TYPE AND ACCESSORIES
EQUIRED SERVICE CLEARANCE FOR EQUIPMENT	
UCT CONTINUATION	
IR VENT	
ACKFLOW PREVENTER	
ALIBRATED BALANCING VALVE	
ALVE - THROTTLING SERVICE	
ALVE - SHUTOFF SERVICE	
/T PORT	
IPE CAP	
IPE CONTINUATION	
RESSURE REDUCING VALVE	
UMP	
ELIEF VALVE	
ENSOR	
ENSOR UCTION DIFFUSER	

HVAC SYMBOLS				
SYMBOL	DESCRIPTION	ADDITIONAL REMARKS		
WxH	RECTANGULAR DUCTWORK W = DIMENSION IN VIEW (INCHES) H = DIMENSION PERPENDICULAR TO VIEW (INCHES)	REFER TO DUCT CONSTRUCTION SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.		
D"Ø	ROUND DUCTWORK D = DUCT DIAMETER	REFER TO DUCT CONSTRUCTION SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.		
W/Hø	FLAT OVAL DUCTWORK W = DIMENSION IN VIEW (INCHES) H = DIMENSION PERPENDICULAR TO VIEW (INCHES)	REFER TO DUCT CONSTRUCTION SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.		
	TURNING VANES	REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.		
	DUCT CROSS SECTION - SUPPLY DUCT CROSS SECTION - RETURN DUCT CROSS SECTION - EXHAUST	CROSS SECTION INDICATES DUCT EXTENDING PERPENDICULAR TO THE PAGE. IN PLAN VIEW THIS INDICATES A DUCT RISE OR DROP TO ANOTHER LEVEL. SOLID FILLE REGION INDICATE EXTENSION UP. NO FILLED REGION INDICATES EXTENSION DOWN.		
	MANUAL BALANCE DAMPER	REFER TO SPECIFICATIONS FOR TYPE. LOCATE MANUAL BALANCE DAMPERS IN AN ACCESSIBLE LOCATION AND AS CLOSE TO THE MAIN DUCT AS POSSIBLE.		
	CONTROL DAMPER	DAMPER SHALL BE SAME SIZE AS DUCT UNLESS NOTED OTHERWISE. REFER TO SEQUENCES, SCHEMATICS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION ANI REQUIREMENTS.		
	FIRE DAMPER	REFER TO SPECIFICATIONS FOR TYPE. LOCATE DAMPERS IN AN ACCESSIBLE LOCATION AND PROVIDE ACCESS DOORS/PANELS IN DUCT AND CEILING/WALL.		
	SMOKE DAMPER	REFER TO SPECIFICATIONS FOR TYPE. LOCATE DAMPERS IN AN ACCESSIBLE LOCATION AND PROVIDE ACCESS DOORS/PANELS IN DUCT AND CEILING/WALL.		
	FIRE/SMOKE DAMPER	REFER TO SPECIFICATIONS FOR TYPE. LOCATE DAMPERS IN AN ACCESSIBLE LOCATION AND PROVIDE ACCESS DOORS/PANELS IN DUCT AND CEILING/WALL.		
	DIFFUSER			
	DIFFUSER BLANK OFF	SHADED AREA INDICATES QUADRANT OF DIFFUSER TO BE PROVIDED WITH BLANK OF PANEL.		
	RETURN GRILLE			
	EXHAUST GRILLE			
	WALL REGISTER / GRILLE			
	DUCT MOUNTED REGISTER / GRILLE			
	LINEAR SLOT			
	TRANSFER AIR ARROW ### = AIRFLOW IN CFM	ARROW INDICATES DIRECTION OF TRANSFER AIR.		
-	FLOW ARROW	ARROW INDICATES DIRECTION OF AIRFLOW FROM DIFFUSERS WITH ADJUSTABLE THROWS.		
<u>D#</u> ###	DIFFUSER TAG D = TYPE # = TYPE NUMBER ### = AIRFLOW IN CFM	REFER TO DIFFUSER SCHEDULE FOR TYPE DESCRIPTIONS AND SIZING. BALANCE TO AIRFLOW LISTED. WHEN TYPE IS NOT GIVEN AND ONLY CFM IS DESIGNATED, PROVID D1 FOR SUPPLY OR G1 FOR RETURN/EXHAUST.		
++++	FLEXIBLE DUCT	REFER TO SPECIFICATIONS FOR TYPE. REFER TO DETAILS FOR INSTALLATION REQUIREMENTS. MAXIMUM LENGTH SHALL BE 48 INCHES UNLESS NOTED OTHERWIS ON THE PLANS OR IN THE SPECIFICATIONS.		
***	FLEXIBLE PIPING	REFER TO SPECIFICATIONS FOR TYPE.		
	VARIABLE AIR VOLUME BOX - NO COIL	REFER TO SCHEDULE, DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND INSTALLATION REQUIREMENTS.		
	VARIABLE AIR VOLUME BOX - HOT WATER COIL	REFER TO SCHEDULE, DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND INSTALLATION REQUIREMENTS.		
	VARIABLE AIR VOLUME BOX - ELECTRIC COIL	REFER TO SCHEDULE, DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND INSTALLATION REQUIREMENTS.		
	VARIABLE AIR VOLUME BOX - DUAL DUCT	REFER TO SCHEDULE, DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND INSTALLATION REQUIREMENTS.		
<u>VB-#</u> ### CFM	VAV BOX TAG # = REFERENCE NUMBER IN SCHEDULE ### = AIRFLOW IN CFM	REFER TO VARIABLE VOLUME BOX SCHEDULE FOR TYPES AND SIZING. AIRFLOW LISTED IS NOMINAL DESIGN CFM AND GPM. FINAL VALUES ARE TO BE DETERMINED E TESTING AND BALANCING CONTRACTOR AND PROGRAMMED BY CONTROLS CONTRACTOR.		
<u>VB-#</u> #.# GPM	VAV BOX TAG # = REFERENCE NUMBER IN SCHEDULE #.# = WATER FLOW RATE IN GPM	REFER TO VARIABLE VOLUME BOX SCHEDULE FOR TYPES AND SIZING. AIRFLOW LISTED IS NOMINAL DESIGN CFM AND GPM. FINAL VALUES ARE TO BE DETERMINED BY TESTING AND BALANCING CONTRACTOR AND PROGRAMMED BY CONTROLS CONTRACTOR.		

NOT ALL ABBREVIATIONS APPLY TO THIS SET OF DOCUMENTS			
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AB	AIR BLENDER	HP	HORSEPOWER
AC	AIR CONDITIONING UNIT (SPLIT SYSTEM INDOOR UNIT)	HPC	HIGH PRESSURE STEAM CONDENSATE
AHU	AIR HANDLING UNIT	HPS	HIGH PRESSURE STEAM SUPPLY (86 PSIG AND ABOVE
BFU	BOILER FEED UNIT	HRC	HEAT RECOVERY CHILLER
BLR	BOILER	HUM	HUMIDIFIER
CAV	CONSTANT AIR VOLUME BOX	HWR	HEATING HOT WATER RETURN
CC	COOLING COIL	HWS	HEATING HOT WATER SUPPLY
CD	CONDENSATE DRAIN	LPC	LOW PRESSURE STEAM CONDENSATE
CFM	CUBIC FEET PER MINUTE	LPS	LOW PRESSURE STEAM SUPPLY (0-12 PSIG)
СН	CHILLER	LV	LOUVER
CP	CONDENSATE PUMP	LWT	LEAVING WATER TEMPERATURE
CR	CONDENSER WATER RETURN	MBH	BTU (1000'S)
CS	CONDENSER WATER SUPPLY	MD	MANUAL DAMPER
СТ	COOLING TOWER	MOD	MOTOR OPERATED DAMPER
CU	CONDENSING UNIT	MPC	MEDIUM PRESSURE STEAM CONDENSATE
CUH	CABINET UNIT HEATER	MPS	MEDIUM PRESSURE STEAM SUPPLY (13-85 PSIG)
CWR	CHILLED WATER RETURN	NC	NORMALLY CLOSED. NOISE CRITERIA
CWS	CHILLED WATER SUPPLY	NO	NORMALLY OPEN, NUMBER
D	DIFFUSER	OA	OUTDOOR AIR
DD	DUAL DUCT	P	PUMP
DX	DIRECT EXPANSION	PC	PUMPED CONDENSATE
FA	EXHAUST AIR	PRV	PRESSURE REDUCING VALVE
FAT		PSC	PUMPED STEAM CONDENSATE
FF	EXHAUST FAN	R	REGISTER
FFF	EFFICIENCY	RA	RETURNAIR
FRC		RFA	RELIEFAIR
FRW		REFI	REFRIGERANT DX LIQUID
FT		REFS	REERIGERANT DX SUCTION GAS
FWT	ENTERING WATER TEMPERATURE	RF	RETURN FAN
FR	FILTER BANK (CONSISTING OF ONE OR MORE FILTERS)	RH	
FCU		RTU	
FMS	FLOW MEASURING STATION	SA SA	
FOR		SD	
FOS		SE	SUPPLY FAN
FOV		SP	
FRD		STM	STEAM
FSD			TEMPERATURE
FTR			
C III			
GCWP			
COME			
	GRAV/ITV EXHALIST		
CUMC			
GUNA			
UC UC		WOULD	
HU		W2HF2	

DESCRIPTION	ABBREVIATION	DESCRIPTION
ACCESS DOOR/PANEL	LF	LINEAR FEET
ABOVE FINISHED FLOOR	MAX	MAXIMUM
AMBIENT	MC	MECHANICAL CONTRACTOR
BOTTOM OF BEAM	MFR	MANUFACTURER
CONTROLS CONTRACTOR	MIN	MINIMUM
DIAMETER	NIC	NOT IN CONTRACT
DOWN	NTS	NOT TO SCALE
EXISTING	PC	PLUMBING CONTRACTOR
ELECTRICAL CONTRACTOR	PSIG	POUNDS PER SQUARE INCH GAUGE
EFFICIENCY	RPM	REVOLUTIONS PER MINUTE
FEET PER MINUTE	SHT	SHEET
FEET PER SECOND	ТОВ	TOP OF BEAM
GENERAL CONTRACTOR	TOS	TOP OF STEEL
GALLONS PER MINUTE	VEL	VELOCITY
LENGTH	VFD	VARIABLE FREQUENCY DRIVE

TEMPERATURE CONTROL SYMBOLS			
DESCRIPTION	ADDITIONAL REMARKS		
VALL MOUNTED CONTROL DEVICE INDICATES TYPE	REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING ELEVATION. T = THERMOSTAT H = HUMIDISTAT S = SENSOR (CARBON MONOXIDE, ETC.)		
OCCUPANCY SENSOR	REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. WHEN SENSOR IS NOT SHOWN ON ELECTRICAL DRAWINGS IT SHALL BE PROVIDED AND INSTALLED BY THE TEMPERATURE CONTROLS CONTRACTOR.		
DUCT, PIPE, OR CEILING MOUNTED CONTROL	REFER TO SPECIFICATIONS FOR TYPE. REFER TO SEQUENCES AND SCHEMATICS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. T = THERMOSTAT H = HUMIDISTAT S = SENSOR (CARBON DIOXIDE, ETC.)		
CONTROL VALVE (3-WAY)	REFER TO SPECIFICATIONS FOR TYPE. REFER TO SEQUENCES AND SCHEMATICS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.		
CONTROL VALVE (2-WAY)	REFER TO SPECIFICATIONS FOR TYPE. REFER TO SEQUENCES AND SCHEMATICS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.		
RESSURE/TEMPERATURE TEST PORT			
LOW MEASURING STATION	REFER TO SPECIFICATIONS FOR TYPE. REFER TO SEQUENCES AND SCHEMATICS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.		
LOW SWITCH			

LS
EMARKS
ONSTRUCTION SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
ONSTRUCTION SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL DREQUIREMENTS.
ONSTRUCTION SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
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CATIONS FOR TYPE. LOCATE MANUAL BALANCE DAMPERS IN AN TION AND AS CLOSE TO THE MAIN DUCT AS POSSIBLE.
E SAME SIZE AS DUCT UNLESS NOTED OTHERWISE. REFER TO EMATICS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND
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JLE, DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION N REQUIREMENTS.
JLE, DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION N REQUIREMENTS.
JLE, DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION NREQUIREMENTS.
LE VOLUME BOX SCHEDULE FOR TYPES AND SIZING. AIRFLOW L DESIGN CFM AND GPM. FINAL VALUES ARE TO BE DETERMINED BY ANCING CONTRACTOR AND PROGRAMMED BY CONTROLS
LE VOLUME BOX SCHEDULE FOR TYPES AND SIZING. AIRFLOW

HVAC ABBREVIATIONS

MECHANICAL GENERAL NOTES:

A. THESE NOTES APPLY TO ALL SHEETS CONTAINING HVAC, PIPING, PLUMBING, MEDICAL GAS, TEMPERATURE CONTROLS, AND FIRE PROTECTION WORK. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. WHERE A DISCREPANCY EXISTS BETWEEN THESE PLANS AND THE PROJECT SPECIFICATIONS, THE SPECIFICATION REQUIREMENTS SHALL TAKE PRECEDENCE OVER THE DRAWINGS. B. VERIFY THE EXISTING CONDITIONS AT THE PROJECT SITE BEFORE SUBMITTING COST PROPOSAL. BE ADVISED THAT LOCATIONS SHOWN ARE APPROXIMATE. AN ATTEMPT HAS BEEN MADE TO SHOW ALL PIPING, FIXTURES, DUCTWORK, AND OUTLETS. CONTRACTOR SHALL VISIT THE SITE TO VERIFY COMPONENTS, LOCATIONS AND SIZES SHOWN OR NOT SHOWN. ALL COMPONENTS NEED TO BE REMOVED IN THE DEMOLITION AREA

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- UNLESS NOTED ON THE DRAWINGS. IF DEVIATION BETWEEN EXISTING CONDITIONS AND NEW WORK IS FOUND, CONTRACTOR SHALL NOTIFY FNGINFFR C. CONTRACTOR SHALL REFER TO THE DRAWINGS OF ALL TRADES TO FAMILIARIZE THEMSELVES WITH EXTENT OF WORK INCLUDING BUT NOT LIMITED TO WHERE NEW PARTITIONING IS BEING INSTALLED, WHERE EXISTING PARTITIONING IS BEING REMOVED, WHERE CEILINGS ARE BEING REMOVED AND/OR REPLACED, ETC.
- D. THESE DRAWINGS ARE NECESSARILY DIAGRAMMATIC IN NATURE. NOT ALL FITTINGS, OFFSETS, VENTS OR DRAINS ARE SHOWN. THE CONTRACTOR SHALL INCLUDE ALL FITTINGS, OFFSETS, VENTS, DRAINS, AND DEVICES REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM. E. PROVIDE ACCESS DOORS IN DUCTWORK AND/OR ARCHITECTURAL ELEMENTS WHERE REQUIRED TO ACCESS ALL EQUIPMENT REQUIRING
- MAINTENANCE AND ADJUSTMENT. THIS EQUIPMENT INCLUDES BUT IS NOT LIMITED TO SENSORS, DAMPERS, ACTUATORS, CONTROL DEVICES, VALVES, ETC. ACCESS DOORS SHALL BE SIZED TO PROVIDE APPROPRIATE ACCESS BASED ON HEIGHT OF ACCESS REQUIRED AND ACTIVITY. INSTALL SUCH THAT ACCESS DOOR IS FULLY OPERABLE WITHOUT THE REMOVAL OF ARCHITECTURAL ELEMENTS SUCH AS CEILING RUNNERS, SUPPORTS, ETC, INSTALL IN A LOCATION SUCH THAT STEPPING OR LEANING OVER PERMANENT EQUIPMENT OR FURNITURE IS NOT REQUIRED. WHERE ACCESS DOORS ARE REQUIRED IN ARCHITECTURAL ELEMENTS THAT PROVIDE A FIRE AND/OR SMOKE RATING, ACCESS DOOR SHALL MAINTAIN THE REQUIRED RATING. F. SEAL ALL WALL PENETRATIONS (DUCTWORK, PIPING, CONTROLS, CONDUITS, ETC.) WITH NON-COMBUSTIBLE MATERIAL. SEAL PENETRATIONS
- INTO ROOMS THAT REQUIRE PRESSURE CONTROL OR SOUND ISOLATION. WITH NON-COMBUSTIBLE MATERIAL AND CAULK. G. PIPING AND DUCTWORK SHALL NOT BE ROUTED OVER ELECTRICAL AND TELECOM ROOMS. WHERE ROUTING OVER SUCH ROOMS IS UNAVOIDABLE, CONTRACTOR SHALL COORDINATE WITH OWNER, DESIGN TEAM, AHJ, AND OTHER TRADES REGARDING LOCATION OF PANELS AND UTILITY ROUTING AND SHALL PROVIDE DRIP PANS UNDER ALL UTILITIES WITH MOISTURE SENSORS OR DRAIN PIPING AS REQUIRED BY THE SPECIFICATIONS. H. FLEXIBLE DUCTWORK SHALL HAVE A MAXIMUM LENGTH OF 48" REGARDLESS OF LENGTH SHOWN ON DRAWINGS. FLEX DUCT INSTALLATION
- SHALL BE AT TERMINAL ENDS ONLY. CONNECTIONS AT VAV BOX INLETS SHALL BE SOLID HARD DUCT. THE DUCTWORK AT ANY FIRE AND/OR FIRE SMOKE DAMPER SHALL BE HARD DUCT. I. LOCATE PIPING AND DUCTWORK IN EXTERIOR BUILDING WALLS ON THE WARM SIDE OF THE BUILDING AND VAPOR BARRIER. COORDINATE INSTALLATION OF BUILDING INSULATION TO RUN CONTINUOUS BETWEEN PIPING AND BUILDING WALL. J. SUPPORT ALL DUCTWORK, PIPING AND EQUIPMENT FROM BUILDING STRUCTURE MEMBERS. ROUTE DUCT MAINS TIGHT TO STRUCTURE UNLESS NOTED OTHERWISE. HOLD PIPING TIGHT TO BOTTOM OF STRUCTURAL MEMBERS OR RUN THROUGH JOIST WEBS IF POSSIBLE. DO NOT USE WIRE OR PERFORATED METAL TO SUPPORT PIPING. DO NOT SUPPORT PIPING FROM OTHER PIPING, DUCTWORK, AND/OR ELECTRICAL
- CONDUITS. SUPPORT FROM BOTTOM CHORD OF BAR JOISTS ONLY AT PANEL POINTS. ALL COMPONENTS REQUIRING MAINTENANCE SHALL BE SUPPORTED IN SUCH A MANNER AS TO BE READILY ACCESSIBLE WITHOUT REMOVAL OF THE CEILING SYSTEM AND TO ALLOW FOR REMOVAL FROM THE SYSTEM WHEN SUCH REMOVAL IS REQUIRED FOR MAINTENANCE. K. PROVIDE CONSTRUCTION FILTERS ON AIR MOVING EQUIPMENT. AT THE COMPLETION OF WORK, REMOVE ALL CONSTRUCTION FILTERS AND PROVIDE NEW FILTERS FOR ALL AIR MOVING EQUIPMENT. L. PROTECT ALL DUCTWORK AND PIPING DURING CONSTRUCTION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. AT A MINIMUM,
- DUCTWORK AND PIPING ENDS SHALL BE COVERED AND SEALED TO PREVENT THE COLLECTION OF DUST AND DEBRIS. CLEAN ALL INTERIOR SURFACES PRIOR TO INSTALLATION AND PROTECT ONCE INSTALLED. MEDICAL GAS PIPING SHALL BE PROTECTED IN ACCORDANCE WITH NFPA 99 REQUIREMENTS. M. AT THE COMPLETION OF WORK, CLEAN ALL STRAINERS PROVIDED AS A PART OF THE WORK AS WELL AS PRIMARY SYSTEM STRAINERS LOCATED
- AT PUMPS WHERE SYSTEMS WERE EXTENDED. ON EXISTING EQUIPMENT, COORDINATE WORK WITH OWNER. N. PROVIDE INTERMEDIATE TESTING AND BALANCING AT THE COMPLETION OF EACH PHASE AND AS REQUIRED TO MAINTAIN PROPER OPERATION OF SYSTEMS SERVING AREAS OF THE FACILITY IN USE INCLUDING BUT NOT LIMITED TO OCCUPIED AREAS, STORAGE AREAS, AND OTHER AREAS DEEMED CRITICAL BY THE OWNER OR AHJ. O. UNLESS NOTED OTHERWISE, DETAILS SHOWN WITHIN THESE DOCUMENTS ARE APPLICABLE FOR ALL PIPING, EQUIPMENT AND DUCTWORK INSTALLATIONS WHETHER OR NOT SPECIFICALLY NOTED. REFER TO DETAIL SHEETS FOR GENERAL CONSTRUCTION DETAILS.
- P. REFER TO SCHEDULES FOR SIZES OF FINAL RUNOUTS TO EQUIPMENT, FIXTURES, DIFFUSERS, GRILLES, AND TERMINAL DEVICES. FINAL RUNOUT SIZES LISTED SHALL BE USED TO WITHIN 10 EQUIVALENT DIAMETERS OF FINAL CONNECTION POINT. FINAL PIPING CONNECTION TO EQUIPMENT SHALL MATCH EQUIPMENT CONNECTION SIZE, PROVIDE TRANSITIONS AS REQUIRED. REFER TO DETAILS, DIAGRAMS AND SCHEMATICS FOR ADDITIONAL FINAL CONNECTION REQUIREMENTS. REFER TO SCHEDULE SHEETS FOR PROVIDED SCHEDULES. Q. FOR DUCTWORK PENETRATING A ONE HOUR FIRE RATED WALL WHERE A FIRE DAMPER IS NOT SHOWN, PROVIDE U.L. LISTED THROUGH
- PENETRATION FIRE STOPPING SYSTEM THAT IS SPECIFIC TO THE WALL CONSTRUCTION ASSEMBLY AND COMPLIANT WITH ASTM E814. THE SYSTEM SHALL BE FIRE TESTED PER ASTM E119 AND COMPLY WITH EXCEPTION 1 OF 2018 IBC PART 717.5.2. INSTALL SYSTEM IN STRICT COMPLIANCE WITH THE FIRE STOPPING MANUFACTURER'S U.L. APPROVED DETAIL. WHERE EXISTING WALLS ARE BEING UPGRADED TO A ONE HOUR FIRE RATED WALL. PROVIDE U.L. LISTED THROUGH PENETRATION FIRE STOPPING SYSTEM FOR ALL NEW AND EXISTING PENETRATIONS. REFER TO THE ARCHITECTURAL LIFE SAFETY PLANS FOR LOCATIONS OF FIRE RATED WALLS. ALL DUCTWORK PENETRATIONS SHALL BE INSPECTED BY AN APPROVED THIRD PARTY INSPECTION AGENCY IN ACCORDANCE WITH ASTM E2174. THE INSPECTION AGENCY SHALL BE PROCURED BY THE CONTRACTOR. DOCUMENTATION OF APPROVED INSPECTION SHALL BE INCLUDED WITH PROJECT CLOSEOUT DOCUMENTATION. R. FIRE ALARM CONTRACTOR SHALL PROVIDE A DUCT SMOKE DETECTOR FOR EACH SMOKE OR FIRE/SMOKE DAMPER AS REQUIRED BY CODE.
- MECHANICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF EACH DUCT SMOKE DETECTOR AND SHALL INSTALL THEM IN THE DUCT. S. FOR ALL PIPING, CONDUIT, AND OTHER ITEMS PENETRATING A FIRE RATED WALL, PROVIDE U.L. LISTED THROUGH PENETRATION FIRE STOPPING SYSTEM THAT IS SPECIFIC TO THE WALL CONSTRUCTION ASSEMBLY AND COMPLIANT WITH ASTM E814. INSTALL SYSTEM IN STRICT COMPLIANCE WITH THE FIRE STOPPING MANUFACTURER'S U.L. APPROVED DETAIL. WHERE EXISTING WALLS ARE BEING UPGRADED TO FIRE RATED WALLS OR THE FIRE RATING IS BEING MODIFIED, PROVIDE U.L. LISTED THROUGH PENETRATION FIRE STOPPING SYSTEM FOR ALL NEW AND EXISTING PENETRATIONS. REFER TO THE ARCHITECTURAL LIFE SAFETY PLANS FOR LOCATIONS OF FIRE RATED WALLS.

SHEET INDEX - MECHANICAL			
Sheet Number Sheet Name			
M000	MECHANICAL SYMBOLS AND ABBREVIATIONS		
MS001	SITE PLAN - MECHANICAL		
MH201	FIRST FLOOR PLAN - DUCTWORK		
MH202	ROOF PLAN - MECHANICAL		
MP201	FIRST FLOOR PLAN - HYDRONIC PIPING		
M300	ENLARGED PLANS		
M500	MECHANICAL UL DETAILS		
M501	MECHANICAL DETAILS		
M600	MECHANICAL SCHEDULES		
M601	MECHANICAL SCHEDULES		
M602	MECHANICAL VENTILATION SCHEDULES		
M701	MECHANICAL CONTROLS		
M702	MECHANICAL CONTROLS		
M703 MECHANICAL CONTROLS			

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GENERAL NOTES:

A. COVER SHEET GENERAL NOTES APPLY TO ALL SHEETS.

- B. ON DEMOLITION PLANS; EXISTING MECHANICAL SYSTEMS TO BE REMOVED ARE SHOWN HATCHED AND/OR DASHED, EXISTING MECHANICAL SYSTEMS TO REMAIN ARE SHOWN LIGHT LINE WEIGHT. ON ALL OTHER PLANS, NEW MECHANICAL SYSTEMS ARE INDICATED WITH HEAVY LINE WEIGHTS.
- C. UNLESS NOTED OTHERWISE, DETAILS SHOWN WITHIN THESE DOCUMENTS ARE APPLICABLE FOR ALL PIPING, EQUIPMENT AND DUCTWORK INSTALLATIONS WHETHER OR NOT SPECIFICALLY NOTED.

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D. THE OWNER AND ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR FOR THE MEANS, METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM THIS WORK.

SHEET NOTES:

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2





WHERE MULTIPLE PUMPS ARE SHOWN OR

SCHEDULED, PIPE PUMPS

EACH PUMP SHALL BE

CONFIGURED AS SHOWN

IN PARALLEL

3



			VARIA	ABLE VOLU	JME BOX -	RETURN			
			AI	RFLOW [CFM]					
		ROOM	CONNECTED	MAXIMUM	MINIMUM	BOX INLET			
MARK	ROOM NAME	NUMBER	TERMINAL	OCCUPIED	OCCUPIED	[IN]	MANUFACTURER	MODEL	REMARKS
VAV-R-1	CORRIDOR	124	1350	1600		12	NAILOR	3001	1,2
VAV-R-2	EQUIPMENT STORAGE	126	1150	1600		12	NAILOR	3001	1,2
VAV-R-3	CORRIDOR	136	1350	1600		12	NAILOR	3001	1,2
VAV-R-4	CORRIDOR	136	900	1080		10	NAILOR	3001	1,2
VAV-R-5	EQUIPMENT ALCOVE	184	900	1080		10	NAILOR	3001	1,2
VAV-R-6	CORRIDOR	136	2000	2240		14	NAILOR	3001	1,2

REMARKS: 1. MAXIMUM RADIATED SOUND LEVEL BASED ON ARI 880-98 AT 1.0 IN W.C. DIFFERENTIAL PRESSURE SHALL NOT EXCEED NC 30. 2. MAXIMUM DISCHARGE SOUND LEVEL BASED ON ARI 880-98 AT 1.0 IN W.C. DIFFERENTIAL PRESSURE SHALL NOT EXCEED NC 25.

						VARIABL	E VOLUME	BOX - HO	T WATER						
				AIRFL	JOW			LEAVING	AIR TEMP	COIL					
		ROOM	OCCUF	PIED	UNOC	CUPIED	BOX INI FT	COOLING	HEATING	CAPACITY	(HIDE) COII	COIL FLOW			
MARK	ROOM NAME	NUMBER	COOLING	HEATING	COOLING	HEATING	[IN]	[°F]	[°F]	[MBH]	SIZING CFM	[GPM]	MANUFACTURER	MODEL	REMARKS
VAV-OR-1	EQUIPMENT STORAGE	126	750				10	55	90	39.4		2.7 GPM	NAILOR	D30RW	
VAV-OR-2	CORRIDOR	124	1700				14	55	90	81.6		5.5 GPM	NAILOR	D30RW	
VAV-OR-3	CLEAN CORE	127	850				10	55	90	39.4		2.7 GPM	NAILOR	D30RW	
VAV-OR-4	EQUIPMENT ALCOVE	130	1700				14	55	90	81.6		5.5 GPM	NAILOR	D30RW	
VAV-OR-5	CORRIDOR	136	1250				12	55	90	58.3		3.9 GPM	NAILOR	D30RW	
VAV-OR-6	CORRIDOR	136	1250				12	55	90	58.3		3.9 GPM	NAILOR	D30RW	
VAV-OR-7	INSTRUMENT STORAGE	139	250				6	55	90	13.1		0.9 GPM	NAILOR	D30RW	
VAV-OR-8	CORRIDOR	136	850				10	55	90	39.4		2.7 GPM	NAILOR	D30RW	
VAV-OR-9	PREP/PACK	140	600				8	55	90	23.3		1.6 GPM	NAILOR	D30RW	
VAV-OR-10	CORRIDOR	136	500				8	55	90	23.3		1.6 GPM	NAILOR	D30RW	
VAV-PACU-1	CORRIDOR	102	250				6	55	90	13.1		0.9 GPM	NAILOR	D30RW	
VAV-PACU-2	NURSE STATION	176	850				10	55	90	39.4		2.7 GPM	NAILOR	D30RW	
VAV-PACU-3	CORRIDOR	102	375				8	55	90	23.3		1.6 GPM	NAILOR	D30RW	
VAV-PACU-4	MEDS	179	200				6	55	90	13.1		0.9 GPM	NAILOR	D30RW	
VAV-PACU-5	CORRIDOR	102	250				6	55	90	13.1		0.9 GPM	NAILOR	D30RW	
VAV-PACU-6	CORRIDOR	102	250				6	55	90	13.1		0.9 GPM	NAILOR	D30RW	
VAV-PACU-7	DISCHARGE LOBBY	119	250				6	55	90	13.1		0.9 GPM	NAILOR	D30RW	
VAV-PACU-8	NURSE STATION	181	350				6	55	90	13.1		0.9 GPM	NAILOR	D30RW	
VAV-PACU-9	CORRIDOR	174	300				6	55	90	13.1		0.9 GPM	NAILOR	D30RW	
VAV-PACU-10	NURSE STATION	176	150				6	55	90	13.1		0.9 GPM	NAILOR	D30RW	
VAV-PACU-11	PACU 2	170	200				6	55	90	13.1		0.9 GPM	NAILOR	D30RW	
VAV-PACU-12	CORRIDOR	166	250				6	55	90	13.1		0.9 GPM	NAILOR	D30RW	
VAV-PACU-13	CORRIDOR	102	450				8	55	90	23.3		1.6 GPM	NAILOR	D30RW	
VAV-PACU-14	WORK	103	150				6	55	90	13.1		0.9 GPM	NAILOR	D30RW	
VAV-PACU-15	SUPERVISOR OFFICE	164	350				6	55	90	13.1		0.9 GPM	NAILOR	D30RW	
VAV-PACU-16	STAFF LOUNGE	161	300				6	55	90	13.1		0.9 GPM	NAILOR	D30RW	
VAV-PACU-17	CORRIDOR	155	375				8	55	90	23.3		1.6 GPM	NAILOR	D30RW	
VAV-PACU-18	FEMALE LOCKERS	153	600				8	55	90	23.3		1.6 GPM	NAILOR	D30RW	
VAV-PACU-19	DICTATION	149	400				8	55	90	23.3		1.6 GPM	NAILOR	D30RW	
VAV-PACU-20	CORRIDOR	154	100				6	55	90	13.1		0.9 GPM	NAILOR	D30RW	
VAV-PACU-21	CORRIDOR	102	1500				12	55	90	58.3		3.9 GPM	NAILOR	D30RW	
VAV-PACU-22	REGISTRATION	104	300				6	55	90	13.1		0.9 GPM	NAILOR	D30RW	

REMARKS: 1. MAXIMUM FULL FLOW AIR PRESSURE DROP ACROSS THE BOX ASSEMBLY INCLUDING HEATING COIL SHALL BE 0.75 IN W.C. 2. MAXIMUM FULL FLOW WATER PRESSURE DROP THROUGH THE COIL SHALL BE 5 FEET. 3. MAXIMUM FULL FLOW WATER PRESSURE DROP ON A DEPRESSION OF AT 1.0 IN W.C. DIFFERENTIAL PRESSURE SHALL NOT EXCEED NC 30

MAXIMUM RADIATED SOUND LEVEL BASED ON ARI 880-98 AT 1.0 IN W.C. DIFFERENTIAL PRESSURE SHALL NOT EXCEED NC 30.
 MAXIMUM DISCHARGE SOUND LEVEL BASED ON ARI 880-98 AT 1.0 IN W.C. DIFFERENTIAL PRESSURE SHALL NOT EXCEED NC 25.
 PERFORMANCE OF COIL BASED ON WATER WITH ENTERING TEMPERATURE OF 180 DEG F AND A TEMPERATURE DROP OF 30 DEG F.

													ADIABATI	C HUMIDIF	FIER SCH	EDULE													
										ATOMIZING NOZZ	ZELS										HIGH PRES	SURE PUMPIN	G STATION						
										AIRSIDE			DISPERSION	ELECTR	RICAL INFORM	IATION							ELECTF	RICAL INFORM	IATION				
		HUMIDIFIER			NET LOAD			AIR VOLUME	AIR P.D.	ENTERING WB/D	B LEAVING WB/DB	WIDTH HEI	GHT EVAPORATION DISTANCE			AMPS			CAPACITY	PUMP						DISCONNECT DISCONN	IECT RO	SOFTENER	
MARK	SERVICE	TYPE	QUANTITY	MATERIAL	[LB/HR]	MANUFACTURER	MODEL	[CFM]	[IN W.C.]	[°F]	[°F]	[IN] [I	N] [FT]	VOLTS	PHASE	(EACH)	QUANTITY	MODEL	[LB/HR]	MATERIAL	HP	VOLTS	PHASE	MCA	MOCP	BY TYPE	(TAG/EXISTIN	(TAG) (خ	REMARKS
HUM-1	AHU-OR	ADIABATIC			115	CAREL	RHS00																				INTEGRAL TO AHU	JR	

REMARKS: 1. RO SYSTEM SHALL BE PROVIDED WITH ADIABATIC HUMIDIFIER. RO GENERATOR AND PUMP SHALL BE INTEGRAL TO AHU-OR. 2. INSTALL MANIFOLD IN AIR HANDLING UNIT. SEAL AROUND MANIFOLD AIR TIGHT. VERIFY EXACT DIMENSIONS.

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								SPLIT	SYSTEM SCH	IEDULE									
			TOTAL	SENSIBLE		INDOOR UNIT			OUTDOOR L	JNIT				E	ELECTRICAL	DATA			
		NOMINAL	COOLING	COOLING	EAT			SUMMER	WINTER AMBIENT	OPERATING									
		CAPACITY	CAPACITY	CAPACITY	(DB / WB)	AIRFLOW		AMBIENT AIR	AIR	WEIGHT									
RK	SERVES	[TONS]	[MBH]	[MBH]	[°F]	[CFM]	MODEL	[°F]	[°F]	[LBS]	MODEL	HP	FLA	VOLTAGE	PHASE	DISCONNECT BY	SCCR	MANUFACTURER	REMARKS
H-146	DI WATER / BOILER / VACUUM PUMP	2					PKA-A24KA8			0	-	0	0	0 V	0		0	MITSUBISHI	
H-148	MED GAS	1					PKA-A12LA1			0	-						0	MITSUBISHI	
H-151	EMERGANCY ELECTRICAL	1					PKA-A12LA1			0	-						0	MITSUBISHI	
H-152	ELECTRICAL	1					PKA-A12LA1			0	-						0	MITSUBISHI	
H-160	IT	2					PKA-A24KA8			0	-						0	MITSUBISHI	
U-146	SSAH-146	2						105	19	0	PUY-A24NHA7					ELECTRICAL CONTRACTOR	0	MITSUBISHI	
U-148	SSAH-148	1						105	19	0	PUY-A12NKA7					ELECTRICAL CONTRACTOR	0	MITSUBISHI	
U-151	SSAH-151	1						105	19	0	PUY-A12NKA7					ELECTRICAL CONTRACTOR	0	MITSUBISHI	
U-152	SSAH-152	1						105	19	0	PUY-A12NKA7					ELECTRICAL CONTRACTOR	0	MITSUBISHI	
U-160	SSAH-160	2						105	19	0	PUY-A24NHA7					ELECTRICAL CONTRACTOR	0	MITSUBISHI	

REMARKS: 1. PERFORMANCE BASED ON CONDITIONS INDICATED IN THIS SCHEDULE. 2. PROVIDE CURB RAILS AND ROOF SUPPORTS FOR OUTDOOR UNIT. 3. PROVIDE THE FOLLOWING ACCESSORIES: SINGLE POINT POWER CONNECTION, DISCONNECT, HAIL GUARDS,

 LOW AMBIENT KIT, WIND BAFFLES, AND CONDENSATE PUMP.
 EQUIPMENT SHORT CIRCUIT CURRENT RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SHORT CIRCUIT CURRENT. REVIEW SHORT CIRCUIT CURRENT RATING WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

				DIFFUS	ER, REGIS	STER, AND	GRILLE S	SCHEDUL	E			
						FACE	SIZE					
MARK	IMAGE	DESCRIPTION	MAX S.P.	MATERIAL	FINISH	LENGTH	WIDTH	NECK SIZE	AIRFLOW	MANUFACTURER	MODEL	REMARKS
D1	\bigcirc	PLAQUE FACE STYLE SUPPLY DIFFUSER	0.10 in-wg	STEEL	Paint, white	24"	24"	6" 8" 10" 12" 14"	0 - 120 121 - 210 211 - 320 321 - 470 471 - 640	TITUS	OMNI	
D9		LAMINAR FLOW WITH HEPA	0.30 in-wg	STEEL	Paint, white	48"	24"	12"	200 - 600	PRICE	LFDC	
G1	0	PERFORATED RETURN GRILLE	0.10 in-wg	STEEL	Paint, white	24"	24"	6" 8" 10" 12" 14" 16"	0 - 100 101 - 170 171 - 270 271 - 360 361 - 430 431 - 500	TITUS	PAR	
G10		SINGLE DEFLECTION RETURN GRILLE	0.10 in-wg	STAINLESS STEEL	PAINT, WHITE	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	PRICE	730	
GE1		PERFORATED EXHAUST GRILLE	0.10 in-wg	STEEL	Paint, white	24"	24"	6" 8" 10" 12" 14" 16"	0 - 100 101 - 170 171 - 270 271 - 360 361 - 430 431 - 500	TITUS	PAR	

KE	MARKS:
1.	COORDINATE EXACT I
2.	PROVIDE REMOTE DA
3.	COORDINATE LOCATIO
4.	DIFFUSER / GRILLE CO
5.	WHEN INSTALLED IN A

						MAX SIZE	MAX	MAX AIR	ENTERING	LEAVING DB /	TOTAL	SENS.		FLUID DATA		
		FLUID	AIRFLOW	MIN	MAX FINS	(LxWxH)	VELOCITY	P.D.	DB / WB	WB	CAPACITY	CAPACITY	FLOW	EWT / LWT	MAX P.D.	
MARK	SERVES	TYPE	[CFM]	ROWS	PER INCH	[IN]	[FPM]	[IN W.C.]	[°F]	[°F]	[MBH]	[MBH]	[GPM]	[°F]	[FT]	REMARKS
CC-OR	AHU-OR	WATER	10,500	6	10				73/59.5	49.7/49.2	283	259				
CC-PACU	AHU-PACU	WATER	8,250						82/67	55/53.7	352	243				
HC-OR	AHU-OR	WATER	10,500	1	6				61	84.5	263					
HC-PACU	AHU-PACU	WATER	8,250						55/53	80/62.5	227					
REMARKS: 1. STEAM 2. MAINT/ 3. PROVII 4. CONTF 5. PROVII SURFA	I PRESSURE INE AIN COIL PULL S DE DOUBLE SLO RACTOR TO PIPE DE UV LIGHTS F ICES WITHIN TH	DICATED IS TI PACE ON INS PED DRAIN I E UNIT AS INE OR COIL. LIG E COIL DISCI	HE PRESSURE AV/ STALLATION. PAN. DICATED FROM FA HTS SHALL PROVI HARGE SECTION.	AILABLE UPSTI CTORY, COUN DE PROPER C	REAM OF THE CONT TERFLOW. OVERAGE OF COIL	IROL VALVE. AND DRAIN PAN										

							FAN SCH	IEDUI	LE						
		NUMBER OF			EXTERNAL		· · · · · · - · · · ·			ELECTRICA	L DATA				
MARK	TYPE	FANS IN ARRAY	MAX WEIGHT [LBS]	AIRFLOW [CFM]	STATIC [IN W.C.]	MAX FAN RPM	MAX FAN BHP	HP	VOLTAGE	PHASE	DISCONNECT BY	SCCR	MANUFACTURER	MODEL	REMARKS
SF-OR	FAN ARRAY	4			3			5	0 V	0		0	-	-	
SF-PACU	FAN ARRAY	2			2			3.8					-	-	
RF-OR	FAN ARRAY	4						2.5					-	-	
RF-PACU	FAN ARRAY	2						2					-	-	
EF-1	EXHAUST FAN			550	1			0.25					GREENHECK	G-099-VG	
EF-2	EXHAUST FAN			400	0.25			0.1					GREENHECK	G-090-VG	
EF-4	EXHAUST FAN			950	0.5			0.25					GREENHECK	G-100-VG	
EF-3	EXHAUST FAN			900	0.5			0.25					GREENHECK	G-100-VG	

 <u>REMARKS:</u>
 PROVIDE DISCONNECT.
 PROVIDE 18" ROOF CURB.
 PROVIDE AUTOMATIC BACKDRAFT DAMPER INTERLOCKED WITH MOTOR.
 PROVIDE VIBRATION ISOLATION.
 EQUIPMENT SHORT CIRCUIT CURRENT RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SHORT CIRCUIT CURRENT. REVIEW SHORT CIRCUIT CURRENT RATING WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT EQUIPMENT.

										A	IR HANDL	LING UNIT S	SCHEDULE											
			OVERALL					SUPPLY			HEATING			FINAL	AIR			ELE	CTRICAL D	ΑΤΑ				
MARK	LOCATION	TYPE	SIZE [LxWxH]	SUPPLY AIR	RETURN AIR	MINIMUM OUTSIDE AIR	SERVICE VESTIBULE	FAN MARK	RETURN FAN MARK	COOLING COIL MARK	COIL REMARK	HUMIDIFIER MARK	PRE FILTER MARK	FILTER MARK	BLENDER MARK	HP	KW	VOLTAGE	PHASE	DISCONNECT BY	SCCR	MANUFACTURER	MODEL	REMARKS
AHU-OR	ROOF	CUSTOM		10,500 CFM	8,400 CFM	2,000 CFM	YES	SF-OR	RF-OR	CC-OR	HC-OR	HUM-1	FIL-1	FIL-2	AB-1	0	0	0 V	0		0	TEMTROL	-	
AHU-PACU	ROOF	PACKAGED		8,250 CFM	6,600 CFM	1,800 CFM	NO	SF-PACU	RF-PACU	CC-PACU	HC-PACU		FIL-3	FIL-4		0					0	KLIMOR	EVO-S 1150	
4. PROVI 5. EQUIP CURRE	JE WITH PRESSURE MENT SHORT CIRCU INT RATING WITH EL	ERELIEF DOORS. JIT CURRENT RATI	ING SHALL BE MINI RACTOR PRIOR TO	MUM 120% OF THE ORDERING EQUIP	AVAILABLE SHORT MENT.	CIRCUIT CURRENT	T. REVIEW SHORT C	CIRCUIT													PERMIS GRANTE PROJEC OF THIS ENGINE DO NOT BE VERI COORDI	SION TO REPRODUCE ANY PA ED SOLELY FOR THE PURPOSE CT OR THE ARCHIVING OF THIS DOCUMENT WITHOUT THE WI ERING SOLUTIONS IS PROHIBI SCALE DRAWING. ALL DIMEN IFIED FROM APPROPRIATE SO INATED PRIOR TO INSTALLATION SPECIALIZED SPECIALIZED SOLUTIONS DECIALIZED SOLUTIONS DECIALIZED SOLUTIONS DECIALIZED SOLUTIONS DECIALIZED SOLUTIONS	RT OF THIS DOCU OF THE CONSTR PROJECT. UNAU RITTEN PERMISSIONS TED BY COPYRIGH SIONS AND CLEAF URCES. ALL WOR DN. SEE SPECIFIC.	MENT IS HEREB' UCTION OF THE THORIZED USE ON OF SPECIALIZ IT LAW. RANCES SHALL & SHALL BE ATIONS. SES PROJEC 22354
					3	3							4									5		

4	5
SPLIT SYSTEM SCHEDULE	

CT MODEL AND FRAME WITH CEILING / WALL TYPE. DAMPER ACTUATION IN HARD CEILINGS.

ATION OF GRILLES WITH ARCHITECTURAL CEILING PLANS AND ELEVATIONS. E CONSTRUCTION SHALL BE ALUMINUM CONSTRUCTION IN ALL RESTROOMS, TOILETS, RECEIVING AREAS, AND VESTIBULES. IN A WALL, THE BLADES FOR THESE GRILLES SHALL BE SUCH THAT THE FRONT BLADES ARE HORIZONTAL (PARALLEL TO THE FLOOR). WHEN INSTALLED IN A CEILING, THE BLADES FOR THESE GRILLES SHALL BE SUCH THAT THE FRONT BLADES ARE PARALLEL TO THE LONG DIMENSION OF THE GRILLE.

HYDRONIC COIL SCHEDULE

				FIL	TER SCHE	DULE			
MARK	ASSOCIATED EQUIPMENT	FUNCTION	TYPE	DEPTH [IN]	MAX FACE VELOCITY [FPM]	MERV RATING	INITIAL PRESSURE DROP [IN W.C.]	FINAL PRESSURE DROP [IN W.C.]	REMARKS
FIL-1	AHU-OR	PRE-FILTER		2"		8			
FIL-2	AHU-OR	FINAL FILTER		4"		14			
FIL-3	AHU-PACU	PRE-FILTER		2"		8			
FIL-4	AHU-PACU	FINAL FILTER		4"		14			

REMARKS: 1. PROVIDE MAGNAHELIC GAUGE ACROSS HOUSING FILTER. 2. PROVIDE FILTER BANK HOLDING FRAME. SUPPORT FRAME FROM STRUCTURE.



ITEM	SUPPLIER	INSTALLER	POWER	CONTROL (4
MOTORS	MC	MC (3)	EC	CC
MOTOR CONTROL CENTER	EC	EC	EC	CC
EQUIPMENT MOUNTED ELECTRICAL COMPONENTS	MC	MC	EC	CC
LOOSE MOUNTED ELECTRICAL COMPONENTS	EC	EC	EC	CC
CONTROL RELAYS, TRANSFORMERS, POWER	MC	EC	EC (4)	CC
TEMPERATURE CONTROL SENSORS	MC	MC	CC	CC
VARIABLE SPEED DRIVES	MC	MC	EC	CC
TERMINAL BOX CONTROLS	MC	MC	EC (4)	CC
PE/EP SWITCHES, SOLENOID VALVES, ACTUATORS	CC	CC	EC (4)	CC
PUSHBUTTON STATIONS	EC	EC	EC (4)	EC
TIME CLOCKS	EC	EC	EC	EC
DX CONDENSING UNITS AND CONDENSERS	MC	MC	EC	CC (1)
SMOKE DAMPERS	MC	MC	EC	EC
MEDICAL GAS ALARM WIRING	MC	MC	EC	MC (2)

REQUIRED BY COMMON MOTOR REQUIREMENTS SPECIFICATION OR BY INDIVIDUAL EQUIPMENT SPECIFICATIONS. 4. ALL HARDWARE, SOFTWARE, EQUIPMENT, ACCESSORIES, WIRING (POWER AND SENSOR), PIPING, RELAYS, SENSORS, POWER SUPPLIES, TRANSFORMERS, AND INSTRUMENTATION REQUIRED FOR A COMPLETE AND OPERATIONAL DDC SYSTEM,

	INSUL	ATION	JACKET TYPE	NCIIS PLATE	
EQUIPMENT	TYPE	THICKNESS	(2)	NUMBER (1)	REMARKS
HOT WATER AIR SEPARATORS	PT	2	ASJ	4-100, 4-120	
HOT WATER EXPANSION TANK	PT	2	ASJ	4-100, 4-120	
WATER CHILLER BOXES (TWO LAYERS)	E	1-1/2		4-200, 8-210	
EVAPORATOR HEAT EXCHANGERS OF CHILLERS (TWO LAYERS)	E	1-1/2		4-200, 8-210	
COLD WATER PUMP CASINGS	E	1		4-210 OR 8-400	
COLD WATER EXPANSION TANKS	E	1		4-200	
COLD WATER AIR SEPARATORS	E	1		4-200	

ABBREVIATIONS: PT= PIPE AND TANK INSULATION, MF= MINERAL FIBER(FIBERGLASS), CS= CALCIUM SILICATE, E= ELASTOMERIC.

REMARKS: 1. NCIIS (NATIONAL COMMERCIAL AND INDUSTRIAL INSULATION STANDARD) PLATE

OR PVC.

- NUMBER REFERENCED ARE PROVIDED TO CLARIFY THE SCOPE OF INSTALLATION. INSTALL INSULATION AND ACCESSORY COMPONENTS PER APPLICABLE NCIIS AND MANUFACTURERS RECOMMENDATIONS.
- 2. "JACKET TYPE" IS FOR INSULATION ONLY, REFER TO SPECIFICATIONS FOR INSTALLATIONS REQUIRING ADDITIONAL FIELD APPLIED JACKETING SUCH AS METAL

DUCT AND P	LENUM IN	ISULATION	I SCHEDU	DUCT AND PLENUM INSULATION SCHEDULE													
		INSULATION															
DUCT SYSTEM TYPE	TYPE	INSTALLED R VALUE	MINIMUM DENSITY LB/SF	JACKET TYPE (2)	NCIIS PLATE NUMBER (1)	REMARKS											
SUPPLY AIR (CONCEALED)	MF BLANKET	6	0.75	FSK	3-100	(5) (7)											
RETURN AIR (CONCEALED)	MF BLANKET	6	0.75	FSK	3-100	(5) (7)											
RELIEF/EXHAUST AIR (NON HEAT RECOVERY APPLICATIONS) (CONCEALED)	MF BLANKET	6	0.75	FSK	3-100	(4) (5) (7)											

ABBREVIATIONS: MF=MINERAL FIBER(FIBERGLASS), E= ELASTOMERIC, PI =

POLYISOCYANURATE REMARKS:

- 1. NCIIS (NATIONAL COMMERCIAL AND INDUSTRIAL INSULATION STANDARD) PLATE NUMBER REFERENCED ARE PROVIDED TO CLARIFY THE SCOPE OF INSTALLATION. INSTALL INSULATION AND ACCESSORY COMPONENTS PER APPLICABLE NCIIS AND
- MANUFACTURERS RECOMMENDATIONS. 2. "JACKET TYPE" IS FOR INSULATION ONLY, REFER TO SPECIFICATIONS FOR
- INSTALLATIONS REQUIRING ADDITIONAL FIELD APPLIED JACKETING SUCH AS METAL OR PVC.
- 3. FOR OUTSIDE AIR DUCTWORK DOWNSTREAM OF AN AIR HANDLING UNIT THAT HEATS OR COOLS THE OUTSIDE AIR, INSULATE AS SPECIFIED FOR SUPPLY AIR. 4. INSULATE FROM EXTERIOR LOUVER OR OPENING TO 20 FEET AWAY OR TO 5 FEET
- PAST CONTROL OR BACKDRAFT DAMPER, WHICHEVER IS LESS. 5. INSULATE FIRE DAMPERS, SMOKE DAMPERS AND COMBINATION FIRE/SMOKE
- DAMPERS AS RECOMMENDED BY THE SMACNA FIRE, SMOKE AND RADIATION DAMPER INSTALLATION GUIDE FOR HVAC.
- 6. PROVIDE WITH 22 GAUGE CORRUGATED ALUMINUM JACKET. 7. REFER TO NCIIS PLATE 3-600 FOR INSULATION OF TRAPEZE OR ANGLE IRON DUCT SUPPORTS.

		HVAC	PIPING INS	SULATION	SCHEDUL	.E				
	TEMP.	THICKNE	SS IN INCHES F	OR PIPE SIZES	STHROUGH SIZ	E LISTED				
	RANGE DEG.						-	JACKET TYPE	NCIIS PLATE	
PIPING SYSTEM FLUID	F.	<1	1 - 1.25	1.5 - 3	4 - 6	>/= 8	TYPE	(2)	NUMBER (1)	REMARKS
R HOT WATER	105 - 140	1	1	1.5	1.5	1.5	MF	ASJ-SSL	1-100	(3)
OR HOT WATER	105 - 140	2	2	2.5	2.5	2.5	MF	ASJ-SSL	1-100	(3)
R COLD WATER	40 - 60	0.5	0.5	1	1	1	MF, E	ASJ-SSL	1-100, 1-200	
OR COLD WATER	40 - 60	1.5	1.5	2	2	2	E		1-200	
ERANT	ANY	0.5	1	1	1	NA	E		1-200	(5)
C IN RETURN AIR PLENUM	ANY	1	1	1	1	1	MF	ASJ-SSL	1-100	(7)
R CONDENSATE AND EQUIPMENT DRAINS	BELOW 60	0.5	0.5	0.5	0.5	0.5	MF, E	ASJ-SSL	1-100, 1-200	(6)

ABBREVIATIONS: MF = MINERAL FIBER/FIBERGLASS, E = ELASTOMERIC, CG = CELLULAR GLASS

1. NCIIS (NATIONAL COMMERCIAL AND INDUSTRIAL INSULATION STANDARD) PLATE NUMBER REFERENCED ARE PROVIDED TO CLARIFY THE SCOPE OF INSTALLATION. INSTALL INSULATION

- AND ACCESSORY COMPONENTS PER APPLICABLE NCIIS AND MANUFACTURERS RECOMMENDATIONS.
- 2. "JACKET TYPE" IS FOR INSULATION ONLY, REFER TO SPECIFICATIONS FOR INSTALLATIONS REQUIRING ADDITIONAL FIELD APPLIED JACKETING SUCH AS METAL OR PVC.
- 3. HOT WATER SYSTEM TEMPERATURES EXCEEDING 200 DEG F TO BE TREATED FOR APPROPRIATE TEMPERATURE RANGE AS LISTED UNDER LPS OR HPS.
- 4. HEAT TRACED PIPING SHALL BE INSULATED TO THICKNESS INDICATED OR TO THICKNESS SPECIFIED FOR SPECIFIC SYSTEM, WHICHEVER IS GREATER.
- 5. UNDERGROUND REFRIGERANT PIPING SHALL BE INSULATED AS SPECIFIED FOR ABOVEGROUND PIPING AND INSTALLED IN PVC CONDUIT.
- 6. INCLUDES AIR CONDITIONING CONDENSATE, P-TRAPS FOR FLOOR DRAINS/SINKS RECEIVING AIR CONDITIONING CONDENSATE OR ICE MAKER DRAIN PIPING, AND SANITARY DRAINAGE PIPING FROM ELECTRIC WATER COOLERS TO MAIN.
- INSULATION PRODUCT TO BE PLENUM RATED AND FULLY COMPLIANT PER APPICABLE MECHANICAL AND PLUMBING CODES AS A UL LISTED AND LABELED PIPE INSULATION, UL CATEGORY: INSULATED PLASTIC PIPE ASSEMBLIES (BSMP) FOR INSTALLATION OVER POLYMER PIPES (I.E. PVC, POLYETHYLENE AND POLYPROPYLENE).



- REMARKS: 1. CHILLER PERFORMANCE BASED ON FLUID AND CONDITIONS INDICATE 1. CHILLER PERFORMANCE BASED ON FLUID AND CONDITIONS INDICATE 1. CHILLER PERFORMANCE BASED ON FLUID AND CONDITIONS INDICATE 2. PROVIDE STRUCTURAL CONCRETE PAD. ANCHOR CHILLER TO PAD. 3. PROVIDE THE FOLLOWING ACCESSORIES: SINGLE POINT POWER CO
- COMPRESSOR SOUND PACKAGE, CONDENSER FAN SOUND PACKAGE 4. "SCCR" - VALUE INDICATED IS AVAILABLE SHORT CIRCUIT CURRENT PRELIMINARY DESIGN PHASE CALCULATIONS. EQUIPMENT SCCR SHA BE ADJUSTED IF REQUIRED BASED ON FINAL SCC CALCULATION. EQU
- SCCR. REVIEW SCCR WITH ELECTRICAL CONTRACTOR PRIOR TO ORD 5. PROVIDE WITH PACKAGED DUAL PUMPS. SEE PUMP SCHEDULE, P-4 & P-5.
- 6. PROVIDE WITH PACKAGED EXPANSION TANK. SEE EXPANSION TANK SCHEDULE, ET-2. 7. PROVIDE WITH PACKAGED BUFFER TANK. SEE VESSEL SCHEDULE, BT-1.

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REMARKS:

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SPONSIBILITY OF THE

HVAC EQUIPMENT INSULATION SCHEDULE

										PU	MP S	CHEDULE									
							SUCTION /							EL	ECTRICAL	DATA					
	FLOW	AVAILABLE HEAD	SHUT-OFF HEAD	MIN EFFICIENCY	TYPE OF	MAX	DISCHARGE SIZE	MAX IMPELLER DIAMETER													
MARK	[GPM]	[FT]	[FT]	[%]	FLUID	RPM	[IN]	[IN]	HP	KW	FLA	VOLTAGE	PHASE	MCA	MOCP	DISCONNECT BY	DISCONNECT TYPE	SCCR	MANUFACTURER	MODEL	REMARKS
P-1	50	10	12	50	WATER	1800			0.5	0	0	480 V	3	0	0	ELECTRICAL CONTRACTOR		0	BELL & GOSSET	E60	(1)(2)(3)(4)
P-2	50	25	28	45	WATER	1800			1	0		480 V	3			ELECTRICAL CONTRACTOR			BELL & GOSSET	E60	(1)(2)(3)(4)
P-3	50	25	28	45	WATER	1800			1	0		480 V	3			ELECTRICAL CONTRACTOR			BELL & GOSSET	E60	(1)(2)(3)(4)
P-4	176	58.6	42	72	30% GLYCOL	1800			5	0		480 V	3			CHILLER MFR			CHILLER MFR	-	(1)(2)(4)(5)
P-5	176	58.6	42	72	30% GLYCOL	1800			5	0		480 V	3			CHILLER MFR			CHILLER MFR	-	(1)(2)(4)(5)
P-6	30	4	30	43	WATER	1800	1 1/4" / 1 1/4"		1.5	0		480 V	3			ELECTRICAL CONTRACTOR			BELL & GOSSET	PD37	(1)(2)(3)(4)
P-7	17	7	35	33	WATER	1800	1 1/4" / 1 1/4"		1.5	0	0	480 V	3	0	0	ELECTRICAL CONTRACTOR		0	BELL & GOSSET	PD40	(1)(2)(3)(4)

REMARKS: 1. PERFORMANCE BASED ON FLUID AND CONDITIONS INDICATED IN THIS SCHEDULE. 2. PROVIDE WITH THE FOLLOWING ACCESSORIES: DISCONNECT, CHECK VALVE, VENTURI FLOW MEASURING DEVICE, FLEXIBLE CONNECTORS, UNIONS, AND TEMPERATURE AND PRESSURE GAUGES ON EACH CONNECTION.

3. PROVIDE BACNET INTERFACE. EQUIPMENT SHORT CIRCUIT CURRENT RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SHORT CIRCUIT CURRENT. REVIEW SHORT CIRCUIT CURRENT RATING WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING

EQUIPMENT. 5. PROVIDE PACKAGED WITH CHILLER CH-1. SEE AIR COOLED CHILLER SCHEDULE.

INPUT HOT WATER BOILER DATA ELECTRICAL DATA														
CONNECTIONS CONNECTIONS														
MEDIA HEATING HEATING														
[STEAM OR HOT ELECTRIC MINIMUM INPUT OUTPUT EWT / LWT FLUID % WATER IN WATER OUT														
MARK WATER] [KW] TURNDOWN [MBH] [MBH] [°F] GLYCOL [IN] [IN] HP KW VOLTAGE PHASE DISCONNECT BY	SCCR	MANUFACTURER	MODEL	REMARKS										
EHB-1 HEATING HOT WATER 100 5:1 341 120 / 140 HOT WATER 3" 134 100 480 V 3 ELECTRICAL CONTRACTOR	5000	LOCHINVAR	BWX1-100C	(1)(2)(3)(4)										

1. BOILER PERFORMANCE BASED ON FLUID AND CONDITIONS INDICATED IN THIS SCHEDULE. 2. PROVIDE HOUSEKEEPING PAD. ANCHOR BOILER TO PAD.

3. PROVIDE BOILER CONTROLLER CAPABLE OF CONTROLLING ALL BOILERS AND ASSOCIATED EQUIPMENT. CONTROLLER SHALL BE PROVIDED WITH BACNET INTERFACE FOR MONITORING OF BOILERS AND EQUIPMENT. 4. EQUIPMENT SHORT CIRCUIT CURRENT RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SHORT CIRCUIT CURRENT.

REVIEW SHORT CIRCUIT CURRENT RATING WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

												AIR COOLE	D CHILLER	SCHEDULE														
			CAP	ACITY /	PERF	ORMANC	CE					EVAPORATO	R PERFORMANC	CE							ELECTF	RICAL DAT	4					
PERATING	MAX SOUND	NOMINAL /	NUMBER	MIN	N EER	AT % LC	DAD					PIPE		MAX PRESSURE														
BIENT	PRESSURE	NET	OF					1	EWT	LWT	FLOW	CONNECTION	FOULING	DROP										DISCONNECT				
[°F]	[dBA]	[TONS]	STAGES	100	75	50	25	NPLV / IPL	′ [°F]	[°F]	[GPM]	SIZE	FACTOR	[FT]	FLUID	HP	KW	FLA	VOLTAGE	PHASE	MCA	MOCP	DISCONNECT BY	TYPE	SCCR	MANUFACTURER	MODEL	REMARKS
	91	52	4						57	42	140	3"	0.0001	12	30% GLYCOL	0	0	0	480 V	0	120.3	150			65000	TRANE	CGAM	(1)(2)(3)(4)(5)(6)(7)
TED IN THIS SCHI	EDULE.																											
NNECTION, INTE E, BACNET INTE (SCC) IN KILOAM ALL BE MINIMUM UIPMENT INDICA DERING EQUIPM	GRAL DISCONNECT, F RFACE. PS AT THE EQUIPMEN 120% OF THE AVAILAI TED WITH 5 KA MAY B ENT.	HAIL GUARDS, IT BASED ON BLE SCC. RATIN BE PROVIDED WI	IG SHALL ITH 5 KA																						2023 © C PERMISS GRANTEL PROJECT OF THIS I ENGINEE	OPYRIGHT ION TO REPRODUCE ANY PAR O SOLELY FOR THE PURPOSE (OR THE ARCHIVING OF THIS F DOCUMENT WITHOUT THE WR RING SOLUTIONS IS PROHIBITI	T OF THIS DOC OF THE CONST PROJECT. UNA ITTEN PERMISS ED BY COPYRIC	JMENT IS HEREB RUCTION OF THE JTHORIZED USE ION OF SPECIAL HT LAW.

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			VOLUME	MAX SIZE (DxH/L)				
MARK	SERVES	CONFIGURATION	[GAL]	[IN]	GPM	MANUFACTURER	MODEL	REMARKS
BT-1	CHILLED WATER	VERTICAL	140	-		CHILLER MFR	-	(1)(2)(3)

1. PROVIDE ASME RATED VESSEL. 2. MOUNT ON HOUSEKEEPING PAD.

3. PROVIDE PACKAGED WITH CHILLER CH-1. SEE AIR COOLED CHILLER SCHEDULE.

		CON	BINATION AIR	AND DIRT S	SEPARATOR S	CHEDULE		
MARK	SERVES	CONFIGURATION	MAX OPERATING WEIGHT [LBS]	MIN FLOW [GPM]	PIPE CONNECTION SIZE	MANUFACTURER	MODEL	REMARKS
AS-1	HEATING WATER	INLINE			3"	THRUSH	HVR-3	(1)(2)(3)(4)

REMARKS: 1. PROVIDE AUTOMATIC AIR VENT, BLOWDOWN DRAIN VALVE WITH HOSE CONNECTION AND MAKE UP WATER CONNECTION. 2. COORDINATE INSTALLATION WITH OTHER EQUIPMENT. ENSURE PROPER CLEARANCE IS PROVIDED FOR MAINTENANCE AND PROPER OPERATION. 3. PROVIDE REMOVABLE END COVER FOR ACCESS TO SEPARATION CHAMBER.

4. VESSEL SHALL BE ASME CERTIFIED.

EXPANSION TANK SCHEDULE								
MARK	SERVES	CONFIGURATION	MAX SIZE (ØxH) [IN]	PIPE CONNECTION SIZE	ACCEPTANCE VOLUME [GAL]	MANUFACTURER	MODEL	REMARKS
ET-1	HEATING WATER	BLADDER	16"ø x 37"	1"	25	BELL & GOSSET	B85	(1)(2)
ET-2	CHILLED WATER	BLADDER	-	0"	5	CHILLER MFR	-	(1)(3)

REMARKS: 1. PROVIDE WITH ASME RATED VESSEL, REPLACEABLE BLADDER, AND SIGHT GLASS. 2. MOUNT ON HOUSEKEEPING PAD. 3. PROVIDE PACKAGED WITH CHILLER CH-1, SEE AIR COOLED CHILLER SCHEDULE.

DO NOT SCALE DRAWING. ALL DIMENSIONS AND CLEARANCES SHALL BE VERIFIED FROM APPROPRIATE SOURCES. ALL WORK SHALL BE COORDINATED PRIOR TO INSTALLATION. SEE SPECIFICATIONS.

SES PROJECT # SPECIALIZED SPECIALIZED SUITE 230 ENGINEERING Charlotte, NC 28204 22354 SOLUTIONS Phone: 704.348.3097 www.specializedeng.com



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D



SEQUENCE OF OPERATION DESCRIPTION

SUPPLY FAN CONTROL:

THE AIR HANDLING UNIT IS A VARIABLE AIR VOLUME UNIT AND CONSISTS OF A SUPPLY FAN ARRAY WITH VFDs, RETURN FAN ARRAY WITH VFDs, OUTDOOR AIR DAMPER, RETURN AIR DAMPER, RELIEF AIR DAMPER, BLENDER, PRE-FILTER BANK, HOT WATER HEATING COIL, CHILLED WATER COOLING COIL, UV LIGHTS, STEAM HUMIDIFIER, FINAL FILTER BANK AND UNIT ISOLATION DAMPERS.

START/STOP: THE DDC SYSTEM SHALL START THE SUPPLY FANS VIA THE VFDs WITH A TIME DELAY TO ALLOW ALL FIRE/SMOKE AND SMOKE DAMPERS IN THE AIR HANDLING SYSTEM TO OPEN PRIOR TO SUPPLY FAN OPERATION. THE SUPPLY FANS SHALL RUN CONTINUOUSLY. VFD RESET: IN CASE OF VFD FAULT DETECTION, THE DDC SYSTEM SHALL WAIT 30 SECONDS (ADJUSTABLE) AND THEN CALL THE VFD TO START. IF THE VFD DOES NOT START, THE DDC SYSTEM SHALL CALL A SECOND TIME. IF THE VFD STILL HAS NOT STARTED, AN ALARM SHALL BE SENT TO THE OPERATOR INTERFACE. CURRENT STATUS SWITCH: INSTALL A CURRENT STATUS SWITCH FOR EACH INDIVIDUAL SUPPLY FAN AND REPORT STATUS TO BMS. IF THE CURRENT STATUS SWITCH DOES NOT PROVE OPERATION OF A GIVEN FAN IN VFD OR BYPASS MODE, SEND AN ALARM TO THE OPERATOR INTERFACE. IF THE CURRENT STATUS SWITCH FOR ALL FANS DOES NOT PROVE OPERATION, THE UNIT SHALL SHUT DOWN AND SEND AN ALARM TO THE OPERATOR INTERFACE.

SPEED CONTROL: THE PURPOSE OF THE SUPPLY FAN CONTROL IS TO MAINTAIN A MINIMUM STATIC PRESSURE IN THE SUPPLY DUCTWORK TO ENSURE PROPER TERMINAL AIR BOX OPERATION. THE DDC SYSTEM SHALL CONTROL THE SUPPLY FAN VFDs IN UNISON FROM THE SUPPLY DUCT DIFFERENTIAL PRESSURE TRANSMITTER SIGNAL. INITIAL SETPOINT SHALL BE + 1.0" W.C. (ADJUSTABLE). FINAL SETPOINT SHALL BE OPTIMIZED BY THE BALANCING CONTRACTOR. STATIC PRESSURE RESET: ON A DECREASE IN SYSTEM LOAD, THE DDC SYSTEM SHALL UTILIZE FEEDBACK FROM ALL TERMINAL AIR BOX POSITIONS TO RESET AND REDUCE THE SUPPLY DUCT DIFFERENTIAL STATIC PRESSURE UNTIL ONE TERMINAL AIR BOX DAMPER IS 95% OPEN. ON AN INCREASE IN SYSTEM LOAD, THE DDC SYSTEM SHALL UTILIZE FEEDBACK FROM ALL TERMINAL AIR BOX POSITIONS TO INCREASE THE SUPPLY DUCT DIFFERENTIAL STATIC PRESSURE (NOT-TO-EXCEED THE FINAL SETPOINT) UNTIL ONE TERMINAL AIR BOX DAMPER IS 95%

OPEN. STATIC PRESSURE RESET SHALL UTILIZE TRIM AND RESPOND LOGIC. HIGH PRESSURE LIMIT: DIFFERENTIAL PRESSURE SWITCH SHALL BE A MANUAL RESET TYPE AND WIRED IN SERIES WITH THE START/STOP CONTROL OF THE SUPPLY FAN. THE DDC SYSTEM SHALL MONITOR THE STATUS OF THE DIFFERENTIAL PRESSURE SWITCH. INITIAL SETPOINT SHALL BE +4.0" W.C. (ADJUSTABLE). HIGH SUCTION PRESSURE LIMIT: DIFFERENTIAL PRESSURE SWITCH SHALL BE A MANUAL RESET TYPE AND WIRED IN SERIES WITH THE START/STOP CONTROL OF THE SUPPLY FAN. THE DDC SYSTEM SHALL MONITOR THE STATUS OF THE DIFFERENTIAL PRESSURE SWITCH. INITIAL SETPOINT SHALL BE -4.0" W.C. (ADJUSTABLE). RETURN FAN CONTROL:

START/STOP: THE DDC SYSTEM SHALL START THE RETURN FANS VIA THE VFDs WITH A TIME DELAY TO ALLOW ALL FIRE/SMOKE AND SMOKE DAMPERS IN THE AIR HANDLING SYSTEM TO OPEN PRIOR TO RETURN FAN OPERATION. THE RETURN FANS SHALL RUN CONTINUOUSLY. VFD RESET: IN CASE OF VFD FAULT DETECTION, THE DDC SYSTEM SHALL WAIT 30 SECONDS (ADJUSTABLE.) AND THEN CALL THE VFD TO START. IF THE VFD DOES NOT START, THE DDC

SYSTEM SHALL CALL A SECOND TIME. IF THE VFD STILL HAS NOT STARTED, AN ALARM SHALL BE SENT TO THE OPERATOR INTERFACE. CURRENT STATUS SWITCH: INSTALL A CURRENT STATUS SWITCH FOR EACH INDIVIDUAL RETURN FAN AND REPORT STATUS TO BMS. IF THE CURRENT STATUS SWITCH DOES NOT PROVE

OPERATION OF A GIVEN FAN IN VFD OR BYPASS MODE, SEND AN ALARM TO THE OPERATOR INTERFACE. IF THE CURRENT STATUS SWITCH FOR ALL FANS DOES NOT PROVE OPERATION, THE UNIT SHALL SHUT DOWN AND SEND AN ALARM TO THE OPERATOR INTERFACE. SPEED CONTROL: THE PURPOSE OF THE RETURN FAN CONTROL IS TO MAINTAIN A MINIMUM STATIC PRESSURE IN THE RETURN DUCTWORK TO ENSURE PROPER TERMINAL AIR BOX

OPERATION. THE DDC SYSTEM SHALL CONTROL THE RETURN FAN VFD FROM THE RETURN DUCT DIFFERENTIAL PRESSURE TRANSDUCER SIGNAL. INITIAL SETPOINT SHALL BE -1.0" W.C. (ADJUSTABLE).

STATIC PRESSURE RESET: ON A DECREASE IN SYSTEM LOAD, THE DDC SYSTEM SHALL UTILIZE FEEDBACK FROM ALL TERMINAL AIR BOX POSITIONS TO RESET AND REDUCE THE RETURN DUCT DIFFERENTIAL STATIC PRESSURE UNTIL ONE TERMINAL AIR BOX DAMPER IS 95% OPEN. ON AN INCREASE IN SYSTEM LOAD, THE DDC SYSTEM SHALL UTILIZE FEEDBACK FROM ALL TERMINAL AIR BOX POSITIONS TO INCREASE THE RETURN DUCT DIFFERENTIAL STATIC PRESSURE (NOT-TO-EXCEED THE FINAL SETPOINT) UNTIL ONE TERMINAL AIR BOX DAMPER IS 95% OPEN. STATIC PRESSURE RESET SHALL UTILIZE TRIM AND RESPOND LOGIC.

LOW PRESSURE LIMIT: DIFFERENTIAL PRESSURE SWITCH SHALL BE A MANUAL RESET TYPE AND WIRED IN SERIES WITH THE START/STOP CONTROL OF THE RETURN FANS. INITIAL SETPOINT SHALL BE -2.0" W.C. (ADJUSTABLE).

DISCHARGE AIR CONTROL: DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE RESET BETWEEN 55°F (ADJUSTABLE) AND 60°F (ADJUSTABLE). ON A DECREASE IN SYSTEM LOAD, THE DDC SYSTEM SHALL UTILIZE FEEDBACK FROM ALL SUPPLY TERMINAL AIR BOX POSITIONS TO RESET AND INCREASE THE DISCHARGE AIR TEMPERATURE UNTIL ONE TERMINAL AIR BOX DAMPER IS 95% OPEN. ON AN INCREASE IN SYSTEM LOAD, THE DDC SYSTEM SHALL UTILIZE FEEDBACK FROM ALL SUPPLY TERMINAL AIR BOX POSITIONS TO DECREASE THE DISCHARGE AIR TEMPERATURE SETPOINT UNTIL ONE TERMINAL AIR BOX DAMPER IS 95% OPEN. IF. WHILE IN RESET MODE. THE RETURN AIR RELATIVE HUMIDITY EXCEEDS 60% (ADJUSTABLE). THE DISCHARGE AIR TEMPERATURE SHALL BE RESET IN REVERSE FASHION UNTIL THE RETURN AIR RELATIVE HUMIDITY IS BELOW 55% (ADJUSTABLE). DISCHARGE AIR TEMPERATURE RESET SHALL UTILIZE TRIM AND RESPOND LOGIC.

WHENEVER THE DISCHARGE AIR TEMPERATURE IS ABOVE THE SETPOINT. THE FOLLOWING SHALL OCCUR IN SEQUENCE: 1. THE HEATING COIL CONTROL VALVE(S) SHALL MODULATE CLOSED AND THE HEATING COIL PUMP SHALL TURN OFF. 2. IF THE OUTSIDE AIR ENTHALPY IS BELOW THE RETURN AIR ENTHALPY, THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN AND THE RETURN AIR DAMPER SHALL MODULATE CLOSED. THIS SHALL CONTINUE UNTIL THE SETPOINT IS ACHIEVED OR THE OUTSIDE AIR DAMPER IS IN THE 100% OUTSIDE AIR POSITION. 3. IF THE OUTSIDE AIR ENTHALPY IS ABOVE THE RETURN AIR ENTHALPY, THE OUTSIDE AIR DAMPER SHALL CLOSE AND RETURN AIR DAMPER SHALL OPEN TO THEIR MINIMUM OUTSIDE AIR DAMPER POSITIONS

4. IF THE SETPOINT CANNOT BE ACHIEVED BY DAMPER MODULATION, THE DDC SYSTEM SHALL MODULATE THE CHILLED WATER CONTROL VALVE(S) OPEN. 5. IF THE DISCHARGE AIR TEMPERATURE IS MORE THAN 10°F (ADJUSTABLE) ABOVE THE SETPOINT, SEND AN ALARM TO THE OPERATOR INTERFACE.

WHENEVER THE DISCHARGE AIR TEMPERATURE IS BELOW THE SETPOINT, THE FOLLOWING SHALL OCCUR IN SEQUENCE: 1. THE CHILLED WATER CONTROL VALVE(S) SHALL MODULATE CLOSED. 2. IF THE OUTSIDE AIR ENTHALPY IS BELOW THE RETURN AIR ENTHALPY, THE OUTSIDE AIR DAMPER SHALL MODULATE CLOSED AND RETURN AIR DAMPER SHALL OPEN. THIS SHALL CONTINUE UNTIL SETPOINT IS ACHIEVED OR THE DAMPERS ARE IN THE MINIMUM OUTSIDE AIR POSITION. 3. IF THE SETPOINT CANNOT BE ACHIEVED BY DAMPER MODULATION, THE HEATING COIL CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN SETPOINT. THE HEATING COIL PUMP SHALL START ON A CALL FOR HEAT IF THE OUTDOOR AIR REFERENCE TEMPERATURE IS BELOW 36°F (ADJUSTABLE). IF THE CURRENT STATUS SWITCH ON THE PUMP DOES NOT PROVE

OPERATION, SEND AN ALARM TO THE OPERATOR INTERFACE. 4. IF THE DISCHARGE AIR TEMPERATURE IS MORE THAN 10°F (ADJUSTABLE) BELOW THE SETPOINT, SEND AN ALARM TO THE OPERATOR INTERFACE.

HUMIDIFIER CONTROL: THE RETURN AIR RELATIVE HUMIDITY SETPOINT SHALL BE RESET FROM 20% AT -10°F (ADJUSTABLE) TO 40% AT 40°F (ADJUSTABLE). THE HUMIDIFIER CONTROL VALVE SHALL MODULATE TO MAINTAIN THE RETURN AIR RELATIVE HUMIDITY SETPOINT. THE DDC SYSTEM SHALL OVERRIDE THE SIGNAL TO THE HUMIDIFIER CONTROL VALVE TO LIMIT THE SUPPLY AIR RELATIVE HUMIDITY TO A MAXIMUM OF 70% (ADJUSTABLE). IF THE SUPPLY AIR RELATIVE HUMIDITY EXCEEDS 75% (ADJUSTABLE) AN ALARM SHALL BE SENT TO THE OPERATOR INTERFACE. WHENEVER THE OUTDOOR AIR DRY BULB REFERENCE TEMPERATURE IS ABOVE 40°F (ADJUSTABLE), THE DDC SYSTEM SHALL CLOSE THE HUMIDIFIER CONTROL VALVE AND DISABLE THE ALARM.

AHU-OR SEQUENCE OF OPERATION [/] NO SCALE

<u>Z</u>)ocs: 1:22: GENERAL NOTES

1. SERVICE DISCONNECT PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR SHALL BE LOCATED WITHIN 6 FEET OF CONTROLLER.

2. CONTROLLER SHALL HAVE A MINIMUM SERVICE CLEARANCE OF 36 INCHES. . WIRE ALL SENSORS AND CONTROL DEVICES BACK TO CONTROLLER.

4. COORDINATE ALL CASING AND DUCT PENETRATIONS WITH FURNISHING CONTRACTOR. ENSURE ALL PENETRATIONS ARE PROPERLY SEALED.

5. DUCT STATIC PRESSURE SENSORS SHALL BE LOCATED APPROXIMATELY 2/3 OF THE DUCT RUN AWAY FROM THE AIR HANDLING EQUIPMENT. REFER TO FLOOR PLANS FOR LOCATIONS.

> SEQUENCE OF OPERATION CONTINUED VENTILATION AIR CONTROL:

3

HANDLING UNIT IS DISABLED OR IN UNOCCUPIED MODE, THE OUTSIDE AIR DAMPER SHALL BE CLOSED. THE RETURN AIR DAMPER AND OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN THE MINIMUM SCHEDULED OUTSIDE AIR CFM, OR WHEN IN ECONOMIZER MODE, MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT. RELIEF AIR DAMPER: THE RELIEF AIR DAMPER SHALL MODULATE TO MAINTAIN A POSITIVE PRESSURE OF 0.2" W.C. (ADJUSTABLE) AT THE DISCHARGE OF THE RETURN FAN RELATIVE TO

THE EXTERIOR. EXTERIOR REFERENCE POINT SHALL BE IN THE SAME WALL AS THE RELIEF LOUVER OR OPENING. MIXED AIR TEMPERATURE AND HUMIDITY: MONITOR THE MIXED AIR TEMPERATURE.

AIRFLOW STATION: MONITOR OUTSIDE AIRFLOW.

UV LIGHTS: THE UV LIGHTS SHALL BE ENABLED WHENEVER THE AIR HANDLING UNIT IS ENABLED AND RUN CONTINUOUSLY. MONITOR RUN-HOURS AND PROVIDE MAINTENANCE ALARMS AT INTERVALS RECOMMENDED BY THE MANUFACTURER. UV LIGHTS SHALL BE HARDWIRED TO THE AIR HANDLING UNIT DOOR SWITCH. IN THE EVENT THE DOOR OPENS, THE LIGHTS SHALL BE DISABLED.

UNIT SHUTDOWN: THE SUPPLY AND RETURN FANS SHALL STOP.

THE OUTSIDE AIR DAMPERS AND RELIEF AIR DAMPERS SHALL CLOSE AND THE RETURN DAMPERS SHALL OPEN. THE CHILLED WATER CONTROL VALVE(S) SHALL CLOSE. THE ASSOCIATED CONDENSING UNIT SHALL BE DISABLED.

THE HUMIDIFIER CONTROL VALVE SHALL CLOSE. THE HEATING COIL CONTROL VALVE(S) SHALL CLOSE. FREEZESTAT SHALL OVERRIDE HEATING CONTROL VALVE(S) AS REQUIRED. ALL FIRE/SMOKE AND SMOKE DAMPERS ASSOCIATED WITH THE AIR HANDLING SYSTEM SHALL CLOSE. UNOCCUPIED CONTROL:

OCCUPIED/UNOCCUPIED SCHEDULE SHALL BE SET AT THE OPERATOR INTERFACE.

BE LIMITED TO THE MAXIMUM RETURN FAN AIRFLOW. THE OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL CLOSE AND THE RETURN AIR DAMPER SHALL OPEN. ECONOMIZER CYCLE SHALL TAKE PRECEDENCE OVER DAMPER POSITION. IF ANY OF THE SPACE TEMPERATURES FALL BELOW 60°F (ADJUSTABLE), THE DDC SYSTEM SHALL RESTART THE SUPPLY AND RETURN FANS AND COOLING CAPABILITIES SHALL BE DISABLED. THE FANS SHALL CONTINUE RUNNING UNTIL THE SPACE TEMPERATURE RISES 5°F (ADJUSTABLE).

TEMPERATURE SETPOINT. THE FANS SHALL CONTINUE RUNNING UNTIL THE SPACE TEMPERATURE FALLS 5°F (ADJUSTABLE). HEATING OPTIMUM START-UP: THIS CYCLE SHALL OVERRIDE THE UNOCCUPIED CYCLE. IF THE SYSTEM WAS OPERATING AS A RESULT OF THE UNOCCUPIED CYCLE, THE SYSTEM SHALL CONTINUE TO OPERATE. THE DDC SYSTEM SHALL MEASURE EACH OF THE SPACE TEMPERATURES AND THE OUTSIDE AIR DRY BULB REFERENCE TEMPERATURE TO DETERMINE THE MINIMUM RUN TIME TO WARM THE SPACES TO THEIR SETPOINT. WHEN THE COMPUTED START TIME IS REACHED, THE DDC SYSTEM SHALL START THE AIR HANDLING SYSTEM AND OPERATE WITH THE OUTSIDE AIR AND RELIEF AIR DAMPERS CLOSED AND THE RETURN AIR DAMPER OPEN. THE AIR HANDLING UNIT DISCHARGE AIR TEMPERATURE SHALL BE MAINTAINED

AT A SETPOINT OF 85°F (ADJUSTABLE). THE SYSTEM SHALL CONTINUE TO OPERATE IN THIS MODE UNTIL ALL TEMPERATURES EXCEED A SETPOINT OF 65°F (ADJUSTABLE). AT THAT TIME, THE DDC SYSTEM SHALL SWITCH TO OCCUPIED CONTROL. THE VENTILATION AIR CONTROL SHALL BE INACTIVE.

COOLING OPTIMUM START-UP: THIS CYCLE SHALL OVERRIDE THE UNOCCUPIED CYCLE. IF THE SYSTEM WAS OPERATING AS A RESULT OF THE UNOCCUPIED CYCLE, THE SYSTEM SHALL CONTINUE TO OPERATE. THE DDC SYSTEM SHALL MEASURE EACH OF THE SPACE TEMPERATURES AND THE OUTSIDE AIR DRY BULB REFERENCE TEMPERATURE TO DETERMINE THE MINIMUM RUN TIME TO COOL THE SPACES TO THEIR SETPOINT. WHEN THE COMPUTED START TIME IS REACHED, THE DDC SYSTEM SHALL START THE AIR HANDLING SYSTEM AND OPERATE WITH OUTSIDE AIR AND RELIEF AIR DAMPERS CLOSED AND THE RETURN AIR DAMPER OPEN. THE AIR HANDLING UNIT DISCHARGE AIR TEMPERATURE SHALL BE MAINTAINED AT A SETPOINT OF 55°F (ADJUSTABLE). THE SYSTEM SHALL CONTINUE TO OPERATE IN THIS MODE UNTIL ALL SPACE TEMPERATURES ARE LESS THAN A SETPOINT OF 78°F (ADJUSTABLE). AT THAT TIME, THE DDC SYSTEM SHALL SWITCH TO OCCUPIED CONTROL. THE ECONOMIZER CYCLE SHALL TAKE PRECEDENCE OVER THIS MODE OF CONTROL. THE VENTILATION AIR CONTROL SHALL BE INACTIVE.

FILTER MONITORING:

FOR EACH FILTER BANK WITH RATING OF MERV 8 AND BELOW, PROVIDE AN ALARM TO THE OPERATOR INTERFACE WHEN THE DIFFERENTIAL STATIC PRESSURE EXCEEDS 0.6" W.C. (ADJUSTABLE) FOR EACH FILTER BANK WITH RATING OF MERV 9 TO MERV 16, PROVIDE AN ALARM TO THE OPERATOR INTERFACE WHEN THE DIFFERENTIAL STATIC PRESSURE EXCEEDS 1.0" W.C. (ADJUSTABLE). FOR EACH FILTER BANK WITH RATING OF MERV 17 AND ABOVE, PROVIDE AN ALARM TO THE OPERATOR INTERFACE WHEN THE DIFFERENTIAL STATIC PRESSURE EXCEEDS 2.0" W.C. (ADJUSTABLE).

ALARM MONITORING: FREEZE PROTECTION: INSTALL AN ELECTRIC FREEZESTAT DOWNSTREAM OF THE HEATING COIL PER MANUFACTURER'S RECOMMENDATION. PROVIDE A STAGED FREEZE PROTECTION APPROACH AS INDICATED BELOW.

1. IF THE HEATING COIL DISCHARGE AIR TEMPERATURE DROPS BELOW 40°F (ADJUSTABLE) FOR 5 MINUTES, OVERRIDE THE RETURN AIR AND OUTSIDE AIR DAMPERS TO MAINTAIN THE MINIMUM OUTSIDE AIRFLOW AND MODULATE THE HEATING COIL CONTROL VALVE TO MAINTAIN A HEATING COIL DISCHARGE AIR TEMPERATURE OF AT LEAST 55°F (ADJUSTABLE). DISABLE THIS FUNCTION WHEN THE HEATING COIL DISCHARGE AIR TEMPERATURE RISES ABOVE 45°F (ADJUSTABLE) FOR 5 MINUTES. 2. IF THE HEATING COIL DISCHARGE AIR TEMPERATURE DROPS BELOW 38°F (ADJUSTABLE) FOR 5 MINUTES, FULLY CLOSE THE OUTSIDE AIR DAMPER FOR ONE HOUR AND SEND AN ALARM

TO THE OPERATOR INTERFACE INDICATING THE OUTSIDE AIR DAMPER HAS CLOSED. AFTER ONE HOUR, THE AIR HANDLING UNIT SHALL RESUME MINIMUM VENTILATION AND ENTER THE PREVIOUS STAGE OF FREEZE PROTECTION. 3. IF THE FREEZESTAT SENSES A TEMPERATURE AT OR BELOW 32°F (ADJUSTABLE), SHUT DOWN THE SUPPLY AND RETURN FANS, CLOSE THE OUTDOOR AIR DAMPER, OPEN THE COOLING COIL CONTROL VALVE TO 100% AND ENABLE ITS ASSOCIATED CHILLED WATER SYSTEM PUMP. MODULATE THE HEATING COIL CONTROL VALVE TO MAINTAIN A HEATING COIL

CONTACTS SHALL NOTIFY THE DDC SYSTEM THAT SHALL SEND AN ALARM TO THE OPERATOR INTERFACE (MANUAL RESET TYPE). FIRE ALARM INTERFACE: UPON ACTUATION OF THE FIRE ALARM SYSTEM, THE UNIT SHALL BE SHUT DOWN AND ALL FIRE/SMOKE AND SMOKE DAMPERS WITHIN THIS SYSTEM SHALL CLOSE. THE FIRE ALARM SYSTEM SHALL NOTIFY THE OPERATOR INTERFACE WHENEVER AN ALARM CONDITION IS EXPERIENCED.



VENTILATION: WHENEVER THE AIR HANDLING UNIT IS ENABLED AND IN OCCUPIED MODE, THE OUTSIDE AIR DAMPER SHALL BE OPEN TO AT LEAST ITS MINIMUM POSITION. WHEN THE AIR

THE SUPPLY AND RETURN FANS SHALL SHUTDOWN. WHEN USING CONSTANT VOLUME OFFSET FOR RETURN AIR FAN CONTROL, THE OFFSET SHALL GO TO ZERO AND SUPPLY FAN SHALL IF ANY OF THE SPACE TEMPERATURES RISE ABOVE 80°F (ADJUSTABLE), THE DDC SYSTEM SHALL RESTART THE SUPPLY AND RETURN FANS AND MAINTAIN THE DISCHARGE AIR

DISCHARGE AIR TEMPERATURE OF 80°F (ADJUSTABLE). THE FREEZESTAT SHALL SHUT DOWN THE UNIT INDEPENDENTLY OF THE DDC SYSTEM VIA RELAYS. A SECOND SET OF





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EXHAUST FAN ¹NO SCALE

GENERAL NOTES 1. WHERE MULTIPLE SPACES ARE SERVED BY A SINGLE EXHAUST FAN, WIRE ALL OCCUPANCY SENSORS TO EXHAUST FAN CONTROLLER.

SWITCH DOES NOT PROVE OPERATION, SEND AN ALARM TO THE OPERATOR INTERFACE. FAN SHALL RUN AND MOTORIZED DAMPER SHALL BE OPEN WHEN THE BUILDING IS OCCUPIED. THE MOTORIZED DAMPER SHALL CLOSE ON LOSS OF POWER TO FAN. OCCUPIED/UNOCCUPIED MODE SHALL BE SET BY SCHEDULE ADJUSTABLE AT THE OPERATOR INTERFACE.

EACH FAN HAS AN ISOLATION DAMPER WITH END SWITCH TO PROVE DAMPER OPEN AND CURRENT STATUS SWITCH TO PROVE FAN OPERATION. IF THE END SWITCH DOES NOT PROVE OPEN, SEND AN ALARM TO THE OPERATOR INTERFACE. IF THE CURRENT STATUS

SEQUENCE OF OPERATION

FAN SHALL RUN CONTINUOUSLY. MOTORIZED DAMPER SHALL CLOSE ON LOSS OF POWER TO FAN

NOT PROVE OPERATION, SEND AN ALARM TO THE OPERATOR INTERFACE.

EACH FAN HAS AN ISOLATION DAMPER WITH END SWITCH TO PROVE DAMPER OPEN AND CURRENT STATUS SWITCH TO PROVE FAN OPERATION. IF THE END SWITCH DOES NOT PROVE OPEN, SEND AN ALARM TO THE OPERATOR INTERFACE. IF THE CURRENT STATUS SWITCH DOES

SEQUENCE OF OPERATION



SMOKE DAMPER - FIRE SMOKE DAMPER

GENERAL NOTES 1. PROVIDE TEST AND RESET SWITCHES FOR EACH DAMPER LOCATED AT THE CONTROL PANEL OR ABOVE CEILING AT AN ACCESSIBLE LOCATION WITHIN SIGHT OF DAMPER.

3. SMOKE DETECTOR STATUS = ALARM

SEQUENCE OF OPERATION

THE DAMPER SHALL REMAIN OPEN AT ALL TIMES EXCEPT THE DAMPER SHALL CLOSE UPON THE FOLLOWING CONDITIONS: 1. AIR HANDLING UNIT SUPPLY/RETURN FAN STATUS = OFF 2. FIRE ALARM STATUS FOR ZONE CONTAINING DAMPER = ALARM

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HEATING WATER LOOP CONTROL - ELECTRIC BOILERS 2 NO SCALE

2. CONTROLLER SHALL HAVE A MINIMUM SERVICE CLEARANCE OF 36 INCHES.

4. ALL SENSORS SHALL BE INSTALLED IN TEES OR THREAD-O-LETS. P/T PLUGS ARE NOT ACCEPTABLE.

3. WIRE ALL SENSORS AND CONTROL DEVICES BACK TO CONTROLLER.

SECONDARY PUMPS, EACH SIZED FOR BUILDING LOAD.

BOILER CONTROL:

GENERAL NOTES

2 L 5. DIFFERENTIAL PRESSURE SENSOR SHALL BE LOCATED IN THE SUPPLY AND RETURN PIPING APPROXIMATELY 2/3 OF THE RUN AWAY FROM THE BOILERS (VERIFY LOCATION WITH ENGINEER PRIOR TO INSTALLATION).

1. SERVICE DISCONNECT PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR SHALL BE LOCATED WITHIN 6 FEET OF CONTROLLER.

SHALL START THE LAG PUMP VIA THE VFD. IF THE LAG PUMP CURRENT STATUS SWITCH DOES NOT PROVE OPERATION, A SECOND ALARM SHALL BE SENT TO THE OPERATOR INTERFACE. THE SEQUENCE SHALL BE REPEATED TWICE. IF SYSTEM DOES NOT PROVE OPERATION, THE LAG PUMP SHALL REMAIN ON. THE DDC SYSTEM SHALL CONTROL THE OPERATING PUMP VFD FROM THE DIFFERENTIAL PRESSURE. INITIAL SETPOINT SHALL BE 10 PSIG (ADJUSTABLE). FINAL SETPOINT SHALL BE OPTIMIZED BY THE BALANCING CONTRACTOR. • THE DDC SYSTEM SHALL ALTERNATE THE LEAD/LAG STATUS OF THE PUMPS ON A WEEKLY (ADJUSTABLE) BASIS.

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- 20°F 180°F SECONDARY HEATING WATER PUMP CONTROL: • THE DDC SYSTEM SHALL START THE LEAD PUMP VIA THE VFD AND SHALL RUN CONTINUOUSLY WHEN THE BOILER PLANT IS ENABLED. THE LAG PUMP SHALL REMAIN OFF. • IN CASE OF VFD FAULT DETECTION, THE DDC SYSTEM SHALL WAIT 30 SECONDS (ADJUSTABLE.) AND THEN CALL THE VFD TO START. IF THE VFD DOES NOT START, THE DDC SYSTEM SHALL CALL A SECOND TIME. IF THE VFD STILL HAS NOT STARTED, AN ALARM SHALL BE SENT TO THE OPERATOR INTERFACE. • INSTALL A CURRENT STATUS SWITCH TO PROVE LEAD AND LAG PUMP OPERATION. LOCATE SWITCHES SO THEY SENSE PUMP STATUS WHEN OPERATED BY THE VFD OR IN BYPASS MODE. IF THE LEAD PUMP CURRENT STATUS SWITCH DOES NOT PROVE OPERATION, AN ALARM SHALL BE SENT TO THE OPERATOR INTERFACE AND THE DDC SYSTEM
- TEMPERATURE IN THE COMMON RETURN PIPING BEFORE THE DECOUPLE LINE AND IN THE PRIMARY LOOP TO THE BOILERS. TEMPERATURE SENSORS IN THE COMMON PIPING SHALL BE INDEPENDENT OF THE BOILER SYSTEM CONTROLS. • WIRE AND INSTALL HEATING WATER SUPPLY AND RETURN TEMPERATURE SENSORS SHIPPED LOOSE WITH EACH BOILER REQUIRED FOR THE BOILER SYSTEM CONTROLS. THE DDC SYSTEM SHALL START THE BOILER SYSTEM WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 70°F (ADJUSTABLE). • THE BOILER SYSTEM CONTROLS SHALL ENABLED AND MODULATE THE BOILERS AS REQUIRED TO MAINTAIN THE HEATING WATER SUPPLY TEMPERATURE SETPOINT AND TO OBTAIN EQUAL RUNTIME FOR EACH BOILER. THE DDC SYSTEM SHALL MONITOR BOILER STATUS AND BOILER RUNTIME. • PROVIDE INTERLOCK WIRING BETWEEN THE BOILER AND ASSOCIATED PRIMARY PUMP TO SO THE PUMP RUNS CONTINUOUSLY WHEN THE BOILER IS ENABLED. INTERLOCK WIRING SHALL BE INDEPENDENT OF THE BMS. PROVIDE A CURRENT STATUS SWITCH FOR EACH PUMP TO PROVE OPERATION. IF THE CURRENT STATUS SWITCH DOES NOT PROVE OPERATION, SEND AN ALARM TO THE OPERATOR INTERFACE. • THE TEMPERATURE OF THE HEATING WATER SUPPLY SHALL BE CONTROLLED TO MAINTAIN A SETPOINT AS DETERMINED BY THE OUTDOOR AIR DRY BULB TEMPERATURE. THE SETPOINT SHALL CORRESPOND LINEARLY BASED ON THE FOLLOWING CORRESPONDING POINTS (SCHEDULE SETPOINTS SHALL BE ADJUSTABLE): <u>OAT</u> 60°F <u>HWS TEMPERATURE</u> 100°

DESCRIPTION: THE HEATING SYSTEM CONSISTS OF ONE ELECTRIC BOILER AND ASSOCIATED PRIMARY PUMPS, EACH SIZED FOR 100% OF BUILDING LOAD, AND TWO VARIABLE SPEED

• SENSE HEATING WATER SUPPLY TEMPERATURE IN THE COMMON SUPPLY PIPING BETWEEN THE DECOUPLE LINE AND THE PUMPS. SENSE THE HEATING WATER RETURN

— HWR— --HWS------BOILER SEQUENCE OF OPERATION



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NO SCALE

ENGINEER PRIOR TO INSTALLATION).

CHILLED WATER LOOP CONTROL

GREATER, SIZE INDICATED ON PLANS IS MINIMUM SIZE.

2. CONTROLLER SHALL HAVE A MINIMUM SERVICE CLEARANCE OF 36 INCHES.

4. ALL SENSORS SHALL BE INSTALLED IN TEES OR THREAD-O-LETS. P/T PLUGS ARE NOT ACCEPTABLE.

3. WIRE ALL SENSORS AND CONTROL DEVICES BACK TO CONTROLLER.

BE OVERRIDDEN TO MAINTAIN MINIMUM FLOW.

BYPASS CONTROL VALVE POSITION.

GENERAL NOTES

CHILLED WATER BYPASS CONTROL VALVE CONTROL: • THE BYPASS CONTROL VALVE SHALL BE SIZED FOR THE LARGEST MINIMUM FLOW RATE OF THE CHILLER OR LARGEST MINIMUM FLOW RATE OF THE PUMPS, WHICHEVER IS

1. SERVICE DISCONNECT PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR SHALL BE LOCATED WITHIN 6 FEET OF CONTROLLER.

• THE DDC SYSTEM SHALL ALTERNATE THE LEAD/LAG STATUS OF THE PUMPS ON A WEEKLY (ADJUSTABLE) BASIS.

CHILLED WATER PUMP CONTROL: PACKAGED CHILLED WATER PUMP CONTROL SHALLE BE PROVIDED WITH THE AIR COOLED CHILLER. CONTROLS BY MANUFACTURER.

- SYSTEM SHALL UTILIZE FEEDBACK FROM ALL COOLING COIL CONTROL VALVES TO RESET AND INCREASE THE CHILLED WATER SUPPLY TEMPERATURE UNTIL ONE CONTROL VALVE IS 90% OPEN. ON AN INCREASE IN SYSTEM LOAD, THE DDC SYSTEM SHALL UTILIZE FEEDBACK FROM ALL COOLING COIL CONTROL VALVES TO RESET AND DECREASE THE CHILLED WATER SUPPLY TEMPERATURE SETPOINT UNTIL ONE CONTROL VALVE IS 90% OPEN. RESET OF THE CHILLED WATER SUPPLY TEMPERATURE SHALL UTILIZE TRIM AND RESPOND LOGIC.
- VALVE SHALL BE CLOSED. EACH CONTROL VALVE SHALL BE A LINE SIZE VALVE WITH A DISCRETE ACTUATOR WITH END SWITCHES. CONTROL VALVE END SWITCHES SHALL BE DIRECTLY INTERLOCKED WITH ITS CORRESPONDING CHILLER CONTROL PANEL AS DICTATED BY THE CHILLER MANUFACTURER. • THE CHILLER SHALL NOT BE ALLOWED TO START UNTIL FLOW IS PROVEN THROUGH THE EVAPORATOR AS SENSED BY THE FLOW SWITCH FURNISHED BY THE CHILLER MANUFACTURER. THE FLOW SWITCH SHALL BE WIRED DIRECTLY TO THE CHILLER CONTROL PANEL INDEPENDENT OF THE BMS AS DICTATED BY THE CHILLER MANUFACTURER. • THE CHILLED WATER TEMPERATURE SETPOINT SHALL BE RESET WITHIN THE RANGE OF 44°F (ADJUSTABLE) AND 50°F (ADJUSTABLE). ON A DECREASE IN SYSTEM LOAD, THE DDC

• UPON INITIALIZATION OF THE SYSTEM, THE BYPASS VALVE SHALL RUN THROUGH AN OPERATIONAL TEST TO ENSURE IT IS FREE TO MODULATE AS REQUIRED BY THE SYSTEM.

• THE BYPASS CONTROL VALVE SHALL MODULATE TO MAINTAIN THE REQUIRED MINIMUM FLOW RATE AS SENSED BY THE FLOW METER. THE DDC SYSTEM SHALL MONITOR

5. DIFFERENTIAL PRESSURE SENSOR SHALL BE LOCATED IN THE SUPPLY AND RETURN PIPING NEAR THE DEVICE WITH THE HIGHEST PRESSURE DROP (VERIFY LOCATION WITH

THE VALVE SHALL FIRST MODULATE OPEN AND THEN CLOSED. WHEN PROPER VALVE OPERATION IS VERIFIED VIA THE ACTUATOR POSITION FEEDBACK SIGNAL, THE SYSTEM

SHALL ASSUME OPERATION. IF THE VALVE FAILS TO OPERATE, AN ALARM SHALL BE SENT TO THE OPERATOR INTERFACE, AND THE AIR HANDLING UNIT CONTROL VALVES SHALL

- 1. WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE 50°F (ADJUSTABLE) OR WHEN ONE CONNECTED CHILLED WATER COIL IS CALLING FOR COOLING, THE CHILLER SHALL BE ENABLED AND MAINTAIN THE CHILLED WATER SUPPLY TEMPERATURE SETPOINT. WHEN THE CHILLER IS ENABLED REMOTELY OR MANUALLY, ITS ASSOCIATED CONTROL VALVE SHALL BE OPEN. WHEN THE CHILLER IS DISABLED, ITS ASSOCIATED CONTROL
- RETURN TEMPERATURE IN THE COMMON RETURN PIPING BETWEEN THE BYPASS CONTROL VALVE AND PUMPS. TEMPERATURE SENSORS IN THE COMMON PIPING SHALL BE INDEPENDENT OF THE CHILLER CONTROLS. • THE CHILLER SHALL BE INITIALIZED AS FOLLOWS THROUGH THE DDC SYSTEM:
- CHILLER CONTROL: SENSE CHILLED WATER SUPPLY TEMPERATURE IN THE COMMON SUPPLY PIPING BETWEEN THE CHILLER AND THE BYPASS CONTROL VALVE. SENSE THE CHILLED WATER
- DESCRIPTION: THE CHILLED WATER SYSTEM CONSISTS OF ONE AIR-COOLED CHILLER SIZED FOR 100% OF BUILDING LOAD, AND TWO VARIABLE PRIMARY PUMPS, EACH SIZED FOR BUILDING LOAD.











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18" DOWNSTREAM OF ELBOW

SUPERVISORY SWITCH-----

COMBINED FIRE SPRINKLER AND

STANDPIPE RISER



ELECTRIC RELEASING PANEL

FIRE ALARM BELL

Q



-FIRE LINE TO SPRINKLERS

-FLOW SWITCH

-REDUCER

-SIGHT GLASS

4	5	



3 SINGLE INTERLOCK PRE-ACTION SPRINKLER SYSTEM - ELECTRIC ACTUATION NO SCALE



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PLUMBING GENERAL NOTES: 1. SEE ARCHITECTURAL SERIES SHEETS FOR OCCUPANT LOAD FOR PLUMBING FIXTURES.

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PLUMBING SYMBOLS					
SYMBOL	DESCRIPTION	ADDITIONAL REMARKS			
	PIPING - SINGLE DASH INDICATES DOMESTIC COLD WATER - DOUBLE DASH INDICATES DOMESTIC HOT WATER - TRIPLE DASH INDICATES HOT WATER CIRCULATING - SOLID INDICATES SANITARY ABOVE FLOOR - CONTINUOUS DASHED INDICATES VENT - LONG DASHED LINES INDICATE SANITARY BELOW FLOOR	NUMBER INDICATES NOMINAL DIAMETER IN INCHES, LETTER(S) INDICATES SYSTEM. REFER TO ABBREVIATIONS FOR SYSTEM TYPE.			
#" <u>RD</u> # SF	ROOF DRAIN TAG INDICATES DRAIN SIZE IN INCHES AND AREA OF ROOF DRAINED IN SQUARE FEET	REFER TO PLUMBING FIXTURE SCHEDULE FOR TYPE.			
#" <u>DSN</u> ∦SF []⊅	WALL DISCHARGE (DOWNSPOUT NOZZLE) TAG INDICATES DRAIN SIZE IN INCHES AND AREA OF ROOF DRAINED IN SQUARE FEET	REFER TO PLUMBING FIXTURE SCHEDULE FOR TYPE.			
<u>FD-#</u>	FLOOR DRAIN	REFER TO PLUMBING FIXTURE SCHEDULE FOR TYPE.			
-O c.o. 	CLEANOUT	CIRCLE INDICATES UP TO FLOOR OR WALL CLEANOUT. LINE INDICATES END OF PIPE CLEANOUT LOCATED ABOVE A CEILING.			
<u>-0-0-</u>	DOUBLE GRADE CLEANOUT	REFER TO DETAILS FOR ADDITIONAL REQUIREMENTS.			
ہگر	SANITARY WYE AND 1/8TH BEND FITTINGS OR COMBINATION FITTING	SANITARY TEES MAY BE USED IN VERTICAL PIPING WHERE PERMITTED BY CODE.			

PLUMBING ABBREVIATIONS

NOT ALL ABBREVIATIONS APPLY TO THIS SET OF DOCUMENTS							
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION				
BF	BOTTLE/GLASS FILLER	HD	HUB DRAIN				
BFP	BACK FLOW PREVENTER	HP	HORSEPOWER				
BT	BATH TUB	IE	INVERT ELEVATION				
CA	COMPRESSED AIR (NON-MEDICAL)	L	LAVATORY				
CD	CONDENSATE DRAIN	LPG	PROPANE				
СО	CLEANOUT	LWT	LEAVING WATER TEMPERATURE				
CP	CONDENSATE PUMP	MBH	BTU (1000'S)				
CS	CLINICAL SINK	MS	MOP SINK				
CV	CHEMICAL VENT	NC	NORMALLY CLOSED				
CW	CHEMICAL WASTE	NO	NORMALLY OPEN				
DCW	DOMESTIC COLD WATER	NPCW	NON-POTABLE COLD WATER				
DF	DRINKING FOUNTAIN	NPHW	NON-POTABLE HOT WATER				
DGCO	DOUBLE GRADE CLEANOUT	PIV	POST INDICATOR VALVE				
DHW	DOMESTIC HOT WATER	PRV	PRESSURE REDUCING VALVE				
DHWC	DOMESTIC HOT WATER CIRCULATION	RD	ROOF DRAIN				
DI	DEIONIZED WATER	RO	REVERSE OSMOSIS WATER				
DIC	DEIONIZED WATER CIRCULATING	RPZ	REDUCED PRESSURE ZONE (BACK FLOW PREVENTER)				
DIH	DEIONIZED HOT WATER	S	SINK				
DIHC	DEIONIZED HOT WATER CIRCULATING	SAN	SANITARY SEWER				
DIS	DISTILLED WATER	SCW	DOMESTIC SOFT COLD WATER				
DISC	DISTILLED WATER CIRCULATING	SHW	DOMESTIC SOFT HOT WATER				
DR	DIALYSIS WATER RETURN	SHWC	DOMESTIC SOFT HOT WATER CIRCULATING				
DS	DIALYSIS WATER SUPPLY	SE	SEWAGE EJECTOR				
DSN	DOWN SPOUT NOZZLE	SH	SHOWER				
DT	DRAIN TILE	SO	STORM OVERFLOW				
EEW	EMERGENCY EYE WASH	SP	SUMP PUMP				
ES	EMERGENCY SHOWER	SS	SERVICE SINK				
ESEW	EMERGENCY SHOWER AND EYE WASH COMBO	ST	STORM SEWER				
ET	EXPANSION TANK	TEMP	TEMPERATURE				
EWC	ELECTRIC WATER COOLER	UR	URINAL				
EWT	ENTERING WATER TEMPERATURE	V	VENT				
F	FILTER	VTR	VENT THROUGH ROOF				
FCO	FLOOR CLEANOUT	WB	WALL BOX				
FD	FLOOR DRAIN	WC	WATER CLOSET				
FS	FLOOR SINK	WCO	WALL CLEANOUT				
G	NATURAL GAS	WH	WATER HEATER				
GCO	GRADE CLEANOUT	WS	WATER SOFTENER				
GV	GREASE VENT	WPD	WATER PRESSURE DROP				
GW	GREASE WASTE	YCO	YARD CLEANOUT				
HB	HOSE BIB						

MEDICAL GAS SYMBOLS						
SYMBOL	DESCRIPTION	ADDITIONAL REMARKS				
+	MEDICAL GAS OUTLET	REFER TO ABBREVIATIONS FOR GAS TYPE. PROVIDE BRACKET WITH EACH VACUUM OUTLET. REFER TO MOUNTING HEIGHTS DETAILS FOR MOUNTING ELEVATION. COORDINATE WITH ARCHITECTURAL DIVISION.				
	ALARM / CONTROL PANEL (MASTER OR AREA)	REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING ELEVATION REFER TO ABBREVIATIONS FOR TYPE				
११ <u>—</u> ११	ZONE VALVE BOX # OF CIRCLES/PIPES INDICATES NUMBER OF VALVES; ARROW INDICATES VALVE ACCESS SIDE	REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING ELEVATION				
P	EMERGENCY OXYGEN CONNECTION	REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING ELEVATION				
-0-	ISOLATION VALVE	REFER TO SPECIFICATIONS FOR TYPE BASED ON SIZE AND SYSTEM. LOCATE ABOVE CEILING AND PROVIDE WITH LOCKABLE HANDLE.				
X	SENSING LOCATION	XXX				

LABORATORY AND MEDICAL GAS ABBREVIATIONS NOT ALL ABBREVIATIONS APPLY TO THIS SET OF DOCUMENTS					
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION		
A AI AAP CA C DA DAI DV DVE EOC HE HP IA IAI IAI	MEDICAL COMPRESSED AIR MEDICAL COMPRESSED AIR INTAKE AREA ALARM PANEL COMPRESSED AIR (NON-MEDICAL) MEDICAL CARBON DIOXIDE DENTAL AIR DENTAL AIR DENTAL AIR INTAKE DENTAL VACUUM DENTAL VACUUM EXHAUST EMERGENCY OXYGEN CONNECTION MEDICAL HELIUM HORSEPOWER INSTRUMENT AIR INSTRUMENT AIR INTAKE LABORATORY AIR	LV LVE MAC MAP MVP N NO O PRV V VE VE VB WAG WC	LABORATORY VACUUM LABORATORY VACUUM EXHAUST MEDICAL AIR COMPRESSOR MASTER ALARM PANEL MEDICAL VACUUM PUMP MEDICAL NITROGEN MEDICAL NITROUS OXIDE MEDICAL OXYGEN PRESSURE REDUCING VALVE MEDICAL VACUUM MEDICAL VACUUM EXHAUST VALVE BOX MEDICAL WASTE ANESTHESIA GAS DISPOSAL WATER COLUMN		
LA	LABORATORY AIR LABORATORY AIR INTAKE				



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PM PM N 60 Docs: 2:42:







(4) COUNTER MOUNTED ICE MACHINE WALL BOX CONNECTION - BELOW COUNTER NO SCALE



11 ELECTRIC WATER HEATER NO SCALE

DUPLEX DRYERS INCLUDED IN INSTRUMENT

AIR COMPRESSOR PACKAGE

ASSEMBLIES INCLUDED IN

ASME RATED AIR RECEIVER

AIR COMPRESSOR PACKAGE-

CONCRETE HOUSEKEEPING PAD

FINISHED FLOOR

TINSTRUMENT AIR COMPRESSOR

WITH ALL REQUIRED APPURTENANCES.

FOR FURTHER INFORMATION.

2. SYSTEM SHOWN IN DUPLEX TANK MOUNTED. ALL REQUIREMENTS ARE SIMILAR

MINIMUM 24"

DEVICES.

MEDICAL GAS OUTLET INSTALLATION REQUIREMENTS

INCLUDED IN INSTRUMENT

NO SCALE

[/] NO SCALE

3

PACKAGE-

DUPLEXED COMPRESSOR/MOTOR

INSTRUMENT AIR COMPRESSOR



FLASH THRU ROOF

FUNNEL SPOUT (OR FLOOR

-MEDICAL INTAKE TURN DOWN AND SCREEN PER NFPA 99 LABEL INTAKE

-PRESSURE SWITCH WIRE TO MASTER ALARM PANEL — DEMAND CHECK VALVE (TYP) -LOCKABLE SOURCE VALVE

-DEW POINT/CO MONITOR INCLUDED IN INSTRUMENT AIR COMPRESSOR PACKAGE

-CONTROL PANEL INCLUDED IN INSTRUMENT AIR COMPRESSOR PACKAGE WIRE TO MASTER ALARM PANEL

-FILTER/REGULATOR INCLUDED IN INSTRUMENT AIR COMPRESSOR PACKAGE

-SIGHT GLASS INCLUDED IN MEDICAL AIR

COMPRESSOR PACKAGE -ROUTE RECEIVER DISCHARGE TO DRAIN COORDINATE ROUTING TO PREVENT A TRIP HAZARD TERMINATE WITH AIR GAP IN ACCORDANCE

WITH PLUMBING CODE NOTES: 1. NOT ALL EQUIPMENT AND ACCESSORIES SHOWN. PROVIDE NFPA 99 COMPLIANT SYSTEM

REGARDLESS OF CONFIGURATION SPECIFIED. REFER TO DRAWINGS AND SPECIFICATIONS

DRAIN

APPROX. 15"

OXYGEN MEDICAL VACUUM

AIR

 \bigcirc

 \bigcirc

 \bigcirc

(SLIDE)



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10 MEDICAL VACUUM PUMP NO SCALE



6 MEDICAL GAS MANIFOLD SOURCE PIPING SYSTEM NO SCALE

MINIMUM 24" NOTES: 1. REFER TO DRAWINGS FOR AUTOMATIC FLOW CONTROL FLOW RATE AND PIPE SIZE. (SLIDE) 1 DOMESTIC HOT WATER CIRCULATION CONNECTION NO SCALE MINIMUM 6" (TYP) 2023 © COPYRIGHT PERMISSION TO REPRODUCE ANY PART OF THIS DOCUMENT IS HEREBY GRANTED SOLELY FOR THE PURPOSE OF THE CONSTRUCTION OF THE PROJECT OR THE ARCHIVING OF THIS PROJECT. UNAUTHORIZED USE OF THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF SPECIALIZED ENGINEERING SOLUTIONS IS PROHIBITED BY COPYRIGHT LAW. 1. REFER TO DRAWINGS AND SPECIFICATIONS FOR FURTHER INFORMATION. DO NOT SCALE DRAWING. ALL DIMENSIONS AND CLEARANCES SHALL 2. EXACT SLIDE LOCATION TO BE DETERMINED BY OWNER. CONTRACTOR TO PROVIDE BE VERIFIED FROM APPROPRIATE SOURCES. ALL WORK SHALL BE MOCK-UP FOR VISUAL APPROVAL OF SLIDE LOCATION BY OWNER. COORDINATED PRIOR TO INSTALLATION. SEE SPECIFICATIONS. 3. COORDINATE LAYOUT WITH ARCHITECTURAL ELEVATIONS AND ELECTRICAL SPECIALIZED 1300 Baxter Street, Suite 230 SES PROJECT # ENGINEERING Charlotte, NC 28204 22354 SOLUTIONS Phone: 704.348.3097 www.specializedeng.com





PM PM 2:42

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SES PROJECT # 22354



			1					2 3	5
	PLUMBING FIXTURE SCHEDULE					WATER HEATER SCHEDULE	DRAINAGE FIXTURE SCHEDULE		
	MARK CS-1	TYPE CLINICAL SINK	DESCRIPTION AMERICAN STANDARD WALL HUNG CLINIC SERVICE SINK, MODEL 9512999.020, WHITE VITREOUS CHINA WALL, FLUSHING RIM, BLOW OUT OPERATION WITH 1-1/2" TOP SPUD, 28"-30" RIM HEIGHT. FLUSH VALVE: SLOAN WES 111, MANUAL DUAL FLUSH, 1-1/2" TOP SPUD,	COLD WATER 1 1/4"	PIPING CONN HOT WATER 1/2"	WASTE 4"	VENT 2"	Image: height background bac	MARKTYPEDESCRIPTIONVENT SIZEWASTE SIZEECO-1EXTERIOR CLEANOUTZURN MODEL Z1400, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, WITH GAS AND WATER TIGHT THREADED ABS TAMPERED PLUG, AND TOP ASSEMBLY. CAST IRON EXTRA-HEAVY DUTY SECURED TOP4"FCO-1FLOOR CLEANOUTZURN MODEL Z1400-B-ZS, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, WITH GAS AND WATER TIGHT THREADED ABS TAMPERED PLUG, AND TOP ASSEMBLY. TYPE "B" LIGHT DUTY POLISHED STAINLESS STEEL TOP-4"
D	EWC-1	ELECTRIC WATER COOLER	 1.6 GPF. BED PAN WASHER: CHICAGO MODEL 910-G777-19KCP, BED PAN CLEANER WITH REMOTE PEDAL VALVE AND LOOSE KEY, WALL MOUNTED, CHROME PLATED, FULL FLOW, 25 DEGREE, MALE ROSE SPRAY, 53" WHITE VINYL HOSE WITH INSULATED HANDLE. INCLUDES ELEVATED VACUUM BREAKER ASSEMBLY. NOTE: PROVIDE 7832504.075 FRONT STAINLESS STEEL RIM GUARD. PROVIDE WALL MOUNTED CARRIER. R ELKAY MODEL LRPB28K, SWIRLFLO BI-LEVEL ADA FOUNTAIN FILTERED REFRIGERATED STAINLESS STEEL, WALL MOUNTED. 8.0 GPH. POWER: 1151/60HZ ELA-4.5 WATTS-370 	1/2"	-	2"	1 1/2"	 REMARKS: PROVIDE WITH RELIEF VALVE, DIELECTRIC CONNECTIONS, THERMOMETERS ON INLET / OUTLET, AND EXPANSION TANK. PROVIDE WITH HOT WATER CIRCULATION PUMP WITH TIMECLOCK / AQUASTAT. PROVIDE WITH ASSE 1017 MIXING VALVE STATION RATED FOR MINIMUM TO MAXIMUM FLOW RATE SCHEDULED. SYSTEM SHALL INTEGRATE WITH BAS. LAWLER OR APPROVED EQUAL. MOUNT ON 4" HOUSEKEEPING PAD. "SCCR" - VALUE INDICATED IS AVAILABLE SHORT CIRCUIT CURRENT (SCC) IN KILOAMPS AT THE EQUIPMENT BASED ON PRELIMINARY DESIGN PHASE CALCULATIONS. EQUIPMENT SCCR SHALL BE MINIMUM 120% OF THE AVAILABLE SCC. RATING SHALL BE ADJUSTED IF REQUIRED BASED ON FINAL SCC CALCULATION. EQUIPMENT INDICATED WITH 5 KA MAY BE PROVIDED WITH 5 KA SCCR. REVIEW SCCR WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT. 	FD-1 FLOOR DRAIN ZURN Z-415-B-ZS-P FLOOR DRAIN DURA COATED CAST IRON BODY, COMBINATION INVERTIBLE MEMBRANE CLAMP/ADJUSTABLE COLLAR, BOTTOM OUTLET, NO-HUB CONNECTION WITH 5" ROUND TYPE "B" POLISHED STAINLESS STEEL STRAINER. NOTE: SET FLOOR DRAINS BELOW FINSIHED FLOOR TO ALLOW FOR FLOOR SLOPE. COORDINATE WITH ARCH DOCUMENTS. NOTE: DRAINS SHALL BE PROVIDED WITH TRAP PRIMER CONNECTION. 2" 3" FD-2 FLOOR DRAIN ZURN Z610-YC-P 12-1/2" SQUARE TOP FLOOR DRAIN, DURA COATED CAST IRON BODY, SEEPAGE PAN, COMBINATION INVERTIBLE MEMBRANE FLASHING CLAMP, BOTTOM OUTLET, NO-HUB CONNECTION, HEAVY DUTY 2" 3"
	IMB-1	ICE MAKER BOX	ANGLE STOP: MCGUIRE 165 ANGLE SUPPLY STOPS. P-TRAP: MCGUIRE 8902 (1-1/4" x 1-1/2") CAST P-TRAP AND WALL BEND. NOTE: PROVIDE WALL MOUNTED CARRIER. GUY GREY, MODEL MDWB1AB, COMMERCIAL ICE MAKER BOX, WHITE POWDER COATED STEEL BOX WITH 3/8" COLD WATER OUTLET, 1/4 TURN SHUT OFF AND SHOCK ARRESTOR. NOTE: PLUMBING CONTRACTOR SHALL VERIFY BOX HEIGHT AND	1/2"	-	-	-	LOCATIONZONEZONEVOACO2NN2OWAGDIAREMARKSMARKROOM NAMENUMBERSERVEDVOACO2NN2OWAGDIAREMARKSAP-1OR CHARGE + RAD TECH137XXXXCO2NN2OWAGDIAREMARKS	FS-1 FLOOR SINK ZURN Z1901 SANI-FLOR RECEPTOR 12"X12"X8" DEEP CAST IRON BODY AND 2" 4" SQUARE, LIGHT DUTY GRATE WITH 1/2" SLOTTED OPENINGS, WHITE ACID PERFORMED FLOOR DEPLICED AND
	L-1	WALL HUNG LAVATORY (ADA)	LOCATION FOR ICE MAKER. AMERICAN STANDARD "LUCERNE" MODEL 0356.015 21"X18" WHITE VITREOUS CHINA, WALL MTD LAVATORY WITH FRONT OVERFLOW AND 8 CENTERS FOR FAUCET. FAUCET: CHICAGO FAUCETS 786-GN2FC319XKABCP, WITH 5-1/4" RIGID/SWING GOOSENECK SPOUT, QUARTER-TURN CERAMIC DISC CARTRIDGE, 1.5 GPM VANDAL RESISTANT LAMINAR-FLO CONTROL	1/2"	1/2"	2"	2"	AP-2NURSE STATION176XXXAP-3NURSE STATION176XXXMAP-1CHECK-IN105XXXMAP-2SUPERVISOR OFFICE164XXXXXREMARKS:	RD-1 PRIMARY ROOF DRAIN ROOF DRAIN - CAST IRON BODY, 15" DIAMETER, BOTTOM OUTLET, DRAIN - PER APPLICABLE PLUMBING CLAMP, UNDERDECK CLAMP, GRAVEL STOP, SUMP RECEIVER (BEARING PAN), SECURED CAST IRON DOME, AD ILISTABLE EXTENSION TO - PER APPLICABLE
	L-2	WALL HUNG LAVATORY WITH EMERGENCY EYEWASH (ADA)	INSERT IN SPOUT INLET AND 6" ELBOW BLADE HANDLES. DRAIN: MCGUIRE 155WC OFFSET LAVATORY GRID STRAINER. ANGLE STOP: MCGUIRE LFHST01LK ANGLE SUPPLY STOPS. P-TRAP: MCGUIRE 8902 (1-1/4" x 1-1/2") CAST P-TRAP AND WALL BEND. NOTE: PROVIDE TRUEBRO, LAV GUARD SUPPY AND TRAP COVERS. PROVIDE CONCEALED ARM WALL MOUNTED CARRIER. PROVIDE THERMOSTAIC MIXING VALVE (ASSE 1070) AT PUBLIC RESTROOMS. AMERICAN STANDARD "LUCERNE" MODEL 0356.015 21"X18" WHITE VITREOUS CHINA, WALL MTD LAVATORY WITH FRONT OVERFLOW AND 8 CENTERS FOR FAUCET. FAUCET: FAUCET: SPEAKMAN SEF-1800-CA-8-NA-TW, FAUCET WITH EYEWASH, DECK-MOUNTED GOOSENECK BODY, VANDEL RESISTANT 4"	1/2"	1/2"	2	2"	CONTRACTOR SHALL PROVIDE ANY AND ALL NECESSARY INTERCONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM. INTERCONNECTIONS MAY INCLUDE BUT ARE NOT LIMITED TO POWER WIRING, COMMUNICATIONS WIRING, PIPING, SUPPORTS, ETC. CONTRACTOR SHALL PROVIDE ALL APPURTENANCES REQUIRED FOR A COMPLETE OPERATING AND NFPA 99 COMPLIANT SYSTEM. APPURTENANCES INCLUDE BUT ARE NOT LIMITED TO SENSORS, DEMAND CHECK VALVES, GAUGES, IDENTIFICATION LABELS, ETC. REFER TO PLANS, DETAILS, AND SPECIFICATIONS FOR FURTHER INFORMATION. CONTRACTOR SHALL PROVIDE ALL APPURTENANCES INCLUDE BUT ARE NOT LIMITED TO SENSORS, DEMAND CHECK VALVES, GAUGES, IDENTIFICATION LABELS, ETC. REFER TO PLANS, DETAILS, AND SPECIFICATIONS FOR FURTHER INFORMATION. CONTRACTOR SHALL PROVIDE ALL APPURTENANCES INCLUDE BUT ARE NOT LIMITED TO SENSORS, DEMAND CHECK VALVES, GAUGES, IDENTIFICATION LABELS, ETC. REFER TO PLANS, DETAILS, AND SPECIFICATIONS FOR FURTHER INFORMATION. CONTRACTOR SHALL PROVIDE ALL APPURTENANCES INCLUDE BUT ARE NOT LIMITED TO SENSORS, DEMAND CHECK VALVES, GAUGES, IDENTIFICATION LABELS, ETC. REFER TO PLANS, DETAILS, AND SPECIFICATIONS FOR FURTHER INFORMATION.	MATCH INSULATION THICKNESS. OUTLET SIZE AS INDICATED ON DRAWINGS. JR SMITH MODEL 1010 OR APPROVED EQUAL. PER APPLICABLE RD-2 SECONDARY ROOF DRAIN ROOF DRAIN - CAST IRON BODY, 15" DIAMETER, BOTTOM OUTLET, FLASHING CLAMP, UNDERDECK CLAMP, GRAVEL STOP, SUMP RECEIVER (BEARING PAN), SECURED CAST IRON DOME, ADJUSTABLE EXTENSION TO MATCH INSULATION THICKNESS, 2" TALL EXTERNAL WATER DAM. OUTLET SIZE AS INDICATED ON DRAWINGS. JR SMITH MODEL 1080 OR APPROVED EQUAL. PER APPLICABLE
	L-3	INTEGRAL BOWL LAVATORY (ADA)	 WRIST BLADE HANDLES, 2.8 GPM AT 30 PSI, INVERTED DIRECTIONAL LAMINAR FLOW. MIXING VALVE: SPEAKMAN MODEL SE-370 THERMOSTAIC MIXING VALVE. PROVIDE MOUNTING BRACKET. DRAIN: MCGUIRE 155WC OFFSET LAVATORY GRID STRAINER. ANGLE STOP: MCGUIRE LFHST01LK ANGLE SUPPLY STOPS. P-TRAP: MCGUIRE 8902 (1-1/4" x 1-1/2") CAST P-TRAP AND WALL BEND. NOTE: PROVIDE TRUEBRO, LAV GUARD SUPPY AND TRAP COVERS. PROVIDE CONCEALED ARM WALL MOUNTED CARRIER. INTEGRAL BOWL LAVATORY BY OTHERS. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT. FAUCET: CHICAGO FAUCETS 420-E2805ABCP, DECK MOUNTED MANUAL 	1/2"	1/2"	2"	2"	MARKROOM NAMEROOMS NUMBERROOMS SERVEDVOACO2NN2OWAGDIAREMARKSZV-1EQUIPMENT ALCOVE133111111111ZV-1EQUIPMENT ALCOVE129111111111ZV-1EQUIPMENT ALCOVE13411	
С	MS-1	MOP SINK	SINK, SINGLE LEVER FAUCET WITH 4" CENTERS, 0.5 GPM VANDAL RESISTANT LAMINAR SPRAY. DRAIN: MCGUIRE 155WC OFFSET LAVATORY GRID STRAINER. ANGLE STOP: MCGUIRE LFHST01LK ANGLE SUPPLY STOPS. P-TRAP: MCGUIRE 8902 (1-1/4" x 1-1/2") CAST P-TRAP AND WALL BEND. NOTE: PROVIDE TRUEBRO, LAV GUARD SUPPY AND TRAP COVERS. PROVIDE THERMOSTAIC MIXING VALVE (ASSE 1070) AT PUBLIC RESTROOMS. FIAT MODEL SB3624-832AA-MSG, 36"x24"x6" TERARAZO MOP SERVICE	3/4"	3/4"	3"	2"	ZV-2 CORRIDOR 182 1 3/4 Image: Correct of the state of	
			BASIN, 6" DEPTH, HOSE & HOSE BRACKET, STAINLESS STEEL WALL GUARDS. FAUCET: CHICAGO MODEL 540-LD897SWXF317CP, 8" WIDESPREAD WALL-MOUNTED MOP SINK FAUCET, 5-3/4" RIGID VACUUM BREAKER SPOUT AND PAIL HOOK, QUANTUM COMPRESSION CARTRIDGES, 4" WRIST BLADE HANDLES. P-TRAP: 3". NOTE: PROVIDE HOSE AND HOSE BRACKET ASSEMBLIES AND WALL GUARDS. PROVIDE CHECK VALVES ON HOT AND COLD WATER PIPING					GAUGES, IDENTIFICATION LABELS, ETC. REFER TO PLANS, DETAILS, AND SPECIFICATIONS FOR FURTHER INFORMATION. MEDICAL VACUUM PUMP SCHEDULE SCFM DIMENSIONS INTAKE TANK ELECTF	CAL DATA
	MV-1	MIXING VALVE	SERVING MOP SINK. LAWLER MODEL 86208, 801 RECIRCULATION SYSTEM WITH ARV. MASTEF WATER MIXING VALVE, THERMOSTATIC TYPE WITH LIQUID-FILLED THERMAL MOTOR. VALVE SHALL BE EQUIPPED WITH UNION AND END STOP AND CHECK INLETS WITH REMOVABLE STAINLESS STEEL STRAINERS. SYSTEM SHALL INCLUDE RETURN PIPING FOR RECIRCULATION CONNECITON AND AN AUTOMATIC RETURN VALVE (ARV) FOR THERMOSTATIC BALANCING OF THE SYSTEM. PROVIDE OPTIONAL HOSE CONNECTION FOR TESTING. NOTE: MIXING VALVE IS ASSE 1017 APPROVED.	R 1"	1"	-	-	MARK SERVICE AT DELIVERY EACH COMP CONFIGURATION L W H CONNECTION SIZE DISTRIBUTION SYSTEM (GAL) VOLUME (GAL) SOUND DATA (BBA) HEAT DISSIPATION (BTUH) HP FLA VOLTAGE PI MVP-1 MEDICAL VACUUM 37 DUPLEX 64" 35" 80" 2" 2" 60 71 10,180 5 13.7 460 V REMARKS: 1. CONTRACTOR SHALL PROVIDE ANY AND ALL NECESSARY INTERCONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM. INTERCONNECTIONS MAY INCLUDE BUT ARE NOT LIMITED TO POWER WIRING, COMMUNICATIONS WIRING, PIPING, DRAINS, SUPPORTS, ETC. 2. CONTRACTOR SHALL PROVIDE ALL APPURTENANCES REQUIRED FOR A COMPLETE OPERATING AND NFPA 99 COMPLEX AND PROVIDE ALL APPURTENANCES REQUIRED FOR A COMPLETE OPERATING AND NFPA 99 COMPLEX AND PROVIDE ALL APPURTENANCES REQUIRED FOR A COMPLETE OPERATING AND NFPA 99 COMPLEX AND PROVIDE ALL APPURTENANCES REQUIRED FOR A COMPLETE OPERATING AND NFPA 99 COMPLEX AND PROVIDE ALL APPURTENANCES REQUIRED FOR A COMPLETE OPERATING AND NFPA 99 COMPLEX AND PROVIDE ALL APPURTENANCES REQUIRED FOR A COMPLETE OPERATING AND NFPA 99 COMPLEX AND PROVIDE ALL APPURTENANCES REQUIRED FOR A COMPLETE OPERATING AND NFPA 99 COMPLEX AND PROVIDE ALL APPURTENANCES REQUIRED FOR A COMPLETE OPERATING AND NFPA 99 COMPLEX AND PROVIDE ALL APPURTENANCES REQUIRED FOR A COMPLETE OPERATING AND NFPA 99 COMPLEX AND PROVIDE ALL APPURTENANCES REQUIRED FOR A COMPLETE OPERATING AND NFPA 99 COMPLEX AND PROVIDE ALL APPURTENANCES REQUIRED FOR A COMPLETE OPERATING AND NFPA 99 COMPLEX AND P	SE DISCONNECT BY SCCR MANUFACTURER MODEL REMARKS ELECTRICAL 0 BEACON MEDAES VLV05D-060H-D
	S-1	INTEGRAL BOWL SINK SINK (ADA)	 INTEGRAL BOWL SINK BY OTHERS. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT. FAUCET: CHICAGO FAUCETS 786-GN2FC319XKABCP, WITH 5-1/4" RIGID/SWING GOOSENECK SPOUT, QUARTER-TURN CERAMIC DISC CARTRIDGE, 1.5 GPM VANDAL RESISTANT LAMINAR-FLO CONTROL INSERT IN SPOUT INLET AND 6" ELBOW BLADE HANDLES. ANGLE STOP: MCGUIRE LFHST01LK ANGLE SUPPLY STOPS. DRAIN: MCGUIRE 151A STAINLESS STEEL BASKET STRAINER. P-TRAP: MCGUIRE NO. 8912 (1-1/2"X1-1/2") 17 GA. HEAVY CAST P-TRAP WITH CLEANOUT PLUG. NOTE: PROVIDE TRUEBRO, LAV GUARD SUPPY AND TRAP COVERS. ELKAY MODEL LRAD191865, 19"X 18" X 6.5", 18 GA. TYPE 304 STAINLESS STEEL, COUNTER MOUNTED SINK W/THREE HOLE DRILLING, 8" CENTERS, REAR CENTER DRAIN OUTLET. FAUCET: CHICAGO FAUCETS 786-GN2FC319XKABCP, WITH 5-1/4" 	1/2"	1/2"	2" 2"	1 1/2"	 COMPLIANT SYSTEM, APPURTENANCES INCLODE BUT ARE NOT LIMITED TO RECEIVERS, REGULATIONS, CONTROLS, ALARMS, VALVES, FLEXIBLE CONNECTIONS, DRAIN VALVES, GAUGES, ETC. REFER TO PLANS, DETAILS, AND SPECIFICATIONS FOR FURTHER INFORMATION. CONTRACTOR SHALL PROVIDE VIBRATION ISOLATION PADS ISOLATING EQUIPMENT FROM STRUCTURE. CONTRACTOR SHALL PROVIDE AND INSTALL EOUIPMENT ON A HOUSEKEEPING PAD. EQUIPMENT SHALL BE FURNISHED WITH A CONTROL PAREL CAPABLE OF INTEGRACING WITH THE BUILDING AUTOMATION SYSTEM. DECONTRACTOR SHALL PROVIDE INTEGRATION OF EQUIPMENT WITH DDC SYSTEM. REFER TO CONTRACTOR SHALL PROVIDE INTEGRATION OF EQUIPMENT WITH DDC SYSTEM. REFER TO CONTROL ON FREQUIRED CLEARANCES. MAINTAIN MANUFACTURER RECOMMENDED AND/OR REQUIRED CLEARANCES. "SCCR" - VALUE INDICATED IS AVAILABLE SHORT CIRCUIT CURRENT (SCC) IN KILOAMPS AT THE EQUIPMENT BASED ON PRELIMINARY DESIGN PHASE CALCULATIONS. EQUIPMENT SUPPORT ON CONTRACTOR PRIOR TO ORDERING ESCC. RATING SHALL BE ADJUSTED IF REQUIRED BASED ON FINAL SCC CALCULATION. EQUIPMENT INDICATED WITH 5 KA SCCR. REVIEW SCCR WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT. 	
В	S-3	THREE COMPARTMENT SINK	RIGID/SWING GOUSENECK SPOUT, QUARTER-TURN CERAMIC DISC CARTRIDGE, 1.5 GPM VANDAL RESISTANT LAMINAR-FLO CONTROL INSERT IN SPOUT INLET AND 6" ELBOW BLADE HANDLES. ANGLE STOP: MCGUIRE LFHST01LK ANGLE SUPPLY STOPS. DRAIN: MCGUIRE 151A STAINLESS STEEL BASKET STRAINER. P-TRAP: MCGUIRE NO. 8912 (1-1/2"X1-1/2") 17 GA. HEAVY CAST P-TRAP WITH CLEANOUT PLUG. NOTE: PROVIDE TRUEBRO, LAV GUARD SUPPY AND TRAP COVERS. PROVIDED BY OWNER. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT. FAUCET - PROVIDED BY OWNER. ANGLE STOP: 1/2" WHEEL HANDLE SUPPLY STOPS. DRAIN: MCGUIRE 151A STAINLESS STEEL BASKET STRAINER. P-TRAP: 2" COPPER. DRAIN PIPING SHALL BE TYPE L COPPER.	1/2"	1/2"	2"	2"	INSTRUMENT AIR COMPRESSOR SCHEDULE MARK SCFM AT DELIVERY PRESSURE DIMENSIONS AT DELIVERY PRESSURE DIMENSIONS CONFIGURATION INTAKE L DISTRIBUTION SYSTEM PIPE CONNECTION TANK VOLUME (GAL) SOUND DATA HEAT DISSIPATION (BTUH) HP FLA VOLTAGE PHASE DISCONN DISCONNECTION IAC-1 INSTRUMENT 200 15.5 DUPLEX 66" 65" 79" 2" 3/4" 120 76 12,725 5 15.2 460 V 3 ELECTRICAL DATA	CT BY SCCR MANUFACTURER MODEL REMARKS AL 0 POWEREX IPD0504
	SH-1	TRANSFER TYPE SHOWER (ADA)	 NOTE: EACH SINK BASIN SHALL DRAIN INDEPENDENTLY. COMFORT DESIGNS MODEL SSS3682BF.625, OUTSIDE DIMENSIONS 42"x37 1/2"x82", SOLID SURFACE, CENTER DRAIN, FOLD UP SEAT. DRAIN - PROVIDE WITH SHOWER. SHOWER VALVE: POWERS HYDROGUARD E707-G-1-N, T & P MIXING VALVE, INTEGRAL SERVICE STOPS, INTEGRAL CHECK STOPS, STANLESS STEEL HAND HELD SHOWER, 1.5 GPM, 60" METAL HOSE, IN-LINE VACUUM BREAKER, 30" SLIDE BAR. ASSE 1016 APPROVED, CHROME PLATED. NOTE: VERIEY, SHOWER AS RIGHT OR LEFT. PROVIDE FRONT LEGS FOR 	1/2" S	1/2"	2"	1 1/2"	REMARKS: 1. CONTRACTOR SHALL PROVIDE ANY AND ALL NECESSARY INTERCONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM. INTERCONNECTIONS MAY INCLUDE BUT ARE NOT LIMITED TO POWER WIRING, COMMUNICATIONS WIRING, PIPING, DRAINS, SUPPORTS, ETC. 2. CONTRACTOR SHALL PROVIDE ALL APPURTENANCES REQUIRED FOR A COMPLETE OPERATING AND NFPA 99 COMPLIANT SYSTEM. APPURTENANCES INCLUDE BUT ARE NOT LIMITED TO AFTERCOOLERS, RECEIVERS, DRYERS, FILTERS, REGULATORS, CONTROLS, ALARMS, VALVES, FLEXIBLE CONNECTIONS, FOR FURTHER INFORMATION. 3. CONTRACTOR SHALL PROVIDE VIBRATION ISOLATION FADS ISOLATING EQUIPMENT FROM STRUCTURE. 4. CONTRACTOR SHALL PROVIDE AND INSTALL EQUIPMENT ON A HOUSEKEEPING PAD.	
	SS-1	SCRUB SINK	 NOTE: VERIFY SHOWER AS RIGHT OR LEPT. PROVIDE PRONT LEGS FOR FOLD UP SEAT. PROVIDED BY OWNER. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT. FAUCET: PROVIDED BY OWNER. ANGLE STOP: MCGUIRE LFHST01LK ANGLE SUPPLY STOPS. P-TRAP: MCGUIRE NO. 8912 (1-1/2"X1-1/2") 17 GA. HEAVY CAST P-TRAP WITH CLEANOUT PLUG. NOTE: WALL CARRIER PROVIDED BY OWNER. PLUMBING CONTACTOR 	1/2"	1/2"	2"	2"	 EQUIPMENT SHALL BE FURNISHED WITH A CONTROL PANEL CAPABLE OF INTERFACING WITH THE BUILDING AUTOMATION SYSTEM. DDC CONTRACTOR SHALL PROVIDE INTEGRATION OF EQUIPMENT WITH DDC SYSTEM. REFER TO CONTROLS SCHEMATIC FOR FURTHER INTEGRATION REQUIREMENTS. MAINTAIN MANUFACTURER RECOMMENDED AND/OR REQUIRED CLEARANCES. PROVIDE HIGH PRESSURE TO LOW PRESSURE REGULATORS FOR REQUIRED PRESSURE AT AIR GUNS AND EQUIPMENT IN SPD. "SCCR" - VALUE INDICATED IS AVAILABLE SHORT CIRCUIT CURRENT (SCC) IN KILOAMPS AT THE EQUIPMENT BASED ON PRELIMINARY DESIGN PHASE CALCULATIONS. EQUIPMENT SCCR SHALL BE MINIMUM 120% OF THE AVAILABLE SCC. RATURE SHORT DIS AVAILABLE SHORT ON FUNAL SCC CALCULATION. EQUIPMENT INDICATED WITH 5 	
	WB-1	WALL BOX	I O INSTALL. GUY GREY, MODEL MWB-19, WHITE POWDER COATED STEEL BOX WITH 2" CENTER DRAIN. WALL BOX TO HAVE 1 - 1/2" COLD WATER THREADED HOSE CONNECTION WITH 1/4 TURN SHUT OFF AND SHOCK ARRESTOR. NOTE: PLUMBING CONTRACTOR SHALL VERIEY DRAIN BOX HEIGHT AND	1/2"	-	2"	1 1/2"	KA MAY BE PROVIDED WITH 5 KA SCCR. REVIEW SCCR WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.	
	WC-1	WATER CLOSET (ADA)	WITH ICE MACHINE AND COFFEE MAKER LOCATION. AMERICAN STANDARD "MADERA" MODEL 3461.001 "BARRIER FREE" WHITE VITREOUS CHINA, FLOOR MOUNTED ELONGATED SIPHON JET TOILET WITH 1-1/2" TOP SPUD, 1.6 GPF, 10" OR 12" ROUGH-IN, 16.5" RIM HEIGHT. FLUSH VALVE: SLOAN WES 111, MANUAL DUAL FLUSH, 1-1/2" TOP SPUD, 1.6 GPF. SEAT: SEAT: CHURCH MODEL NO. 35555C EXTRA HEAVY WEIGHT SOLID	1"	-	4"	2"	BOTTLE GAS MANIFOLD SCHEDULEBOTTLE GAS MANIFOLD SCHEDULEMARKSERVICEDELIVERY PRESSURETOTAL NUMBER OF BOTTLESDISTRIBUTION SYSTEM PIPE CONNECTION SIZEMANUFACTURERMODELVOLTAGEPHASEDISCONNECT BYSCCRREMARKSMA-1MEDICAL AIRHIGH PRESSURE55623/4"BEACON MEDAESMNE-3X3-AIR-A-T120 V1ELECTRICAL002-1OXYGENHIGH PRESSURE551242"BEACON MEDAESMNE-6X6-02-A-T120 V1ELECTRICAL0	
A	WC-2	WATER CLOSET	PLASTIC ELONGATED OPEN FRONT SEAT WITH DURAGUARD ANTIMICROBIAL AGENT, SELF SUSTAINING CHECK HINGE. AMERICAN STANDARD MODEL "MADERA" MODEL 2234.001 "BARRIER FREE" WHITE VITREOUS CHINA, FLOOR MOUNTED ELONGATED SIPHON JET TOILET WITH 1-1/2" TOP SPUD, 1.6 GPF, 10" OR 12" ROUGH-IN, 15" RIM HEIGHT. FLUSH VALVE: SLOAN WES 111, MANUAL DUAL FLUSH, 1-1/2" TOP SPUD, 1.6 GPF. SEAT: SEAT: CHURCH MODEL NO. 35555C EXTRA HEAVY WEIGHT SOLID PLASTIC ELONGATED OPEN FRONT SEAT WITH DURAGUARD ANTMICROBIAL ACENT, SELE SUISTAINING CHECK HINCE	1"	-	4"	2"	 <u>REMARKS:</u> 1. CONTRACTOR SHALL PROVIDE ANY AND ALL NECESSARY INTERCONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM. INTERCONNECTIONS MAY INCLUDE BUT ARE NOT LIMITED TO POWER WIRING, COMMUNICATIONS WIRING, PIPING, SUPPORTS, ETC. 2. CONTRACTOR SHALL PROVIDE ALL APPURTENANCES REQUIRED FOR A COMPLETE OPERATING AND NFPA 99 COMPLIANT SYSTEM. APPURTENANCES INCLUDE BUT ARE NOT LIMITED TO REGULATORS, CONTROLS, ALARMS, VALVES, FLEXIBLE CONNECTIONS, RELIEF VALVES, VENT PIPING, GAUGES, ETC. REFER TO PLANS, DETAILS, AND SPECIFICATIONS FOR FURTHER INFORMATION. 3. EQUIPMENT SHALL BE FURNISHED WITH A CONTROL PANEL CAPABLE OF INTERFACING WITH THE BUILDING AUTOMATION SYSTEM. DDC CONTRACTOR SHALL PROVIDE INTEGRATION OF EQUIPMENT WITH DDC SYSTEM. REFER 	
	WH-1	WALL HYDRANT	WOODFORD MODEL B65, ANTI-SIPHON FREEZELESS WALL HYDRANT, EXTERIOR BOX AND DOOR, CHROME FINISH.	3/4"	-	-	-	TO CONTROLS SCHEMATIC FOR FURTHER INTEGRATION REQUIREMENTS. 4. "SCCR" - VALUE INDICATED IS AVAILABLE SHORT CIRCUIT CURRENT (SCC) IN KILOAMPS AT THE EQUIPMENT BASED ON PRELIMINARY DESIGN PHASE CALCULATIONS. EQUIPMENT SCCR SHALL BE MINIMUM 120% OF THE AVAILABLE SCC. RATING SHALL BE ADJUSTED IF REQUIRED BASED ON FINAL SCC CALCULATION. EQUIPMENT INDICATED WITH 5 KA MAY BE PROVIDED WITH 5 KA SCCR. REVIEW SCCR WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING	
	REMARKS: 1. REFER TO A FIXTURE MO 2. CONTRACTO ATTENTION (3. COORDINAT INSTALLATIO 4. COORDINAT 5. COORDINAT SUFFICIENT CONTRACTO 6. COORDINAT BE SET SUC DETAILS FOR	RCHITECTURAL PLA DUNTING LOCATIONS DR SHALL COORDIN, OF THE ENGINEER. E SINK BASINS AND DN AND COMPLY WI E FLUSH VALVE INS E MOUNTING OF FA CLEARANCE BETWI DR SHALL OBTAIN AI E DRAIN GRATE WIT H THAT DRAIN GRAT R ADDITIONAL INFOI	ANS AND ELEVATIONS FOR ADDITIONAL REQUIREMENTS, ROUGH IN DIME S AND OPERATION OF FIXTURE SHALL NOT INTERFERE WITH ADJACENT / ATE ALL FIXTURES WITH OTHER TRADES. ANY CONFLICTS OR ADJUSTME DRAIN OUTLETS WITH CASEWORK AND KNEE GUARDS. PROVIDE OFFSE TH ADA REQUIREMENTS. TALLATION WITH GRAB BARS IN ALL LOCATIONS. UCET SPOUTS WITH BASINS. FAUCET SHALL NOT DISCHARGE DIRECTLY EEN STREAM AND BASIN TO ALLOW FOR UNOBSTRUCTED HAND WASHIN ND COORDINATE WITH SHOP DRAWINGS FROM COUNTER AND CASEWO ITH FLOOR SLOPING AND FLOORING PATTERN FOR ALL FLOOR DRAINS, F TE IS FLUSH WITH FINISHED FLOOR SURFACE AND COORDINATED WITH I RMATION.	ENSIONS, AND COO ACCESSORIES OR ENTS SHALL BE BR T TAILPIECES AS R INTO BASIN DRAIN NG WITHOUT CONT, NK MANUFACTURE LOOR SINKS, AND PATTERN. REFER T	RDINATION OF AC THEIR OPERATION DUGHT TO THE IM EQUIRED TO ACC AND SHALL PROV ACT WITH THE BAS RENCH DRAINS. I D ARCHITECTURA	CCESSORIES. N. IMEDIATE COMMODATE VIDE SIN. DRAIN SHALL AL PLANS AND		EQUIPMENT.	PERMISSION TO REPRODUCE ANY PART OF THIS DOCUMENT IS HEREBY GRANTED SOLELY FOR THE PURPOSE OF THE CONSTRUCTION OF THE PROJECT OR THE ARCHIVING OF THIS PROJECT. UNAUTHORIZED USE OF THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF SPECIALIZED ENGINEERING SOLUTIONS IS PROHIBITED BY COPYRIGHT LAW. DO NOT SCALE DRAWING. ALL DIMENSIONS AND CLEARANCES SHALL BE VERIFIED FROM APPROPRIATE SOURCES. ALL WORK SHALL BE COORDINATED PRIOR TO INSTALLATION. SEE SPECIFICATIONS. Image: Specialized bit is the street of th



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	FOUR								
	EQUIPMENT DOMESTIC WATER HEATER STORAGE TANK COLD WATER PUMP CASINGS	PT E	THICKNESS (2) 2 ASJ 1 1	4-100 4-210 OR 8-400					
	ROOF DRAIN BODIES COLD WATER EXPANSION TANKS	E E E E		4-200 4-200					
D	ABBREVIATIONS: PT= PIPE AND TANK INSULA CS= CALCIUM SILICATE, E= ELASTOMERIC.	TION, MF= MINERAL FIBER(FIBERGLAS	S),	4-200					
	REMARKS: 1. NCIIS (NATIONAL COMMERCIAL AND INDU	JSTRIAL INSULATION STANDARD) PLAT	E						
	NUMBER REFERENCED ARE PROVIDED TO INSTALL INSULATION AND ACCESSORY CO MANUFACTURERS RECOMMENDATIONS. 2. "JACKET TYPE" IS FOR INSULATION ONLY,	O CLARIFY THE SCOPE OF INSTALLATI OMPONENTS PER APPLICABLE NCIIS A , REFER TO SPECIFICATIONS FOR	on. ND						
	INSTALLATIONS REQUIRING ADDITIONAL I OR PVC.	FIELD APPLIED JACKETING SUCH AS M	ETAL						
				INSULATION SC					
		TEMP. RANGE DEG.	THICKNESS IN INCHES	FOR PIPE SIZES THROU	GH SIZE LISTED	JA	ACKET TYPE NCIIS PLATE		
	PIPING SYSTEM FLUID INDOOR HOT WATER AND HOT WATER RECIRC INDOOR HOT WATER AND HOT WATER RECIRC	F. 141 - 200 105 - 140	<1	1.5 - 3 4 - 1 2 2 1.5 1.5	>/= 8 2 1.5	TYPE MF MF	(2) NUMBER (1) REMARKS ASJ-SSL 1-100		
	VACUUM PUMP EXHAUST INDOOR COLD WATER INDOOR COLD WATER	0 - 350 40 - 60 < 40	2 2 0.5 0.5 0.5 1	2 2 1 1 1 1	2 1 1.5	MF MF, E MF, E	ASJ-SSL 1-100 (3) ASJ-SSL 1-100, 1-200		
	STORM, STORM OVERFLOW AND DRAIN BODIES AIR COMPRESSOR INTAKE INDOOR CONDENSATE AND EQUIPMENT DRAINS	S ANY ANY ANY S BELOW 60	1 1 1 1 0.5 0.5	1 1 1 1 0.5 0.5	1 1 0.5	MF, E MF, E MF, E	ASJ-SSL 1-100, 1-200 ASJ-SSL 1-100, 1-200 ASJ-SSL 1-100, 1-200		
	ABBREVIATIONS: MF = MINERAL FIBER/FIBER	RGLASS, E = ELASTOMERIC, CG = CELLI	ULAR GLASS						
	REMARKS: 1. NCIIS (NATIONAL COMMERCIAL AND INDUS REFERENCED ARE PROVIDED TO CLARIFY AND ACCESSORY COMPONENTS PER APP	STRIAL INSULATION STANDARD) PLATE Y THE SCOPE OF INSTALLATION. INSTA PLICABLE NCIIS AND MANUFACTURERS	E NUMBER LL INSULATION						
	RECOMMENDATIONS. 2. "JACKET TYPE" IS FOR INSULATION ONLY, REQUIRING ADDITIONAL FIELD APPLIED JA 3. HEAT TRACED PIPING SHALL BE INSULATE	, REFER TO SPECIFICATIONS FOR INST. ACKETING SUCH AS METAL OR PVC. ED TO THICKNESS INDICATED OR TO T	ALLATIONS HICKNESS						
C	SPECIFIED FOR SPECIFIC SYSTEM, WHICH 4. UNDERGROUND REFRIGERANT PIPING SH PIPING AND INSTALLED IN PVC CONDUIT.	HEVER IS GREATER. HALL BE INSULATED AS SPECIFIED FOR							
	 CONDITIONING CONDENSATE OR ICE MAK FROM ELECTRIC WATER COOLERS TO MA INSULATION PRODUCT TO BE PLENUM RA 	KER DRAIN PIPING, AND SANITARY DRA AIN. ATED AND FULLY COMPLIANT PER APPI							
	CATEGORY: INSULATED PLASTIC PIPE ASS PIPES (I.E. PVC, POLYETHYLENE AND POL	SEMBLIES (BSMP) FOR INSTALLATION (YPROPYLENE).	OVER POLYMER						
	MAX MAX SIZE	SOFTENER MAX SIZE BRINE	MIN MAX	WATER SC PEAK PEAK	FTENER SCHEDU	JLE	ELECTRICAL DATA		
	OPERATING T/ WEIGHT (H MARK [LBS] [ANK TANK HxØ) (HxØ) [IN] [IN]	EXCHANGE EXCHANG CAPACITY CAPACIT [GR @ LB] [GR @ LI	GE FLOW FLOW IY RATE P.D. B] [GPM] [PSI]	CONTINUOUS C FLOW RATE [GPM]	CONTINUOUS FLOW P.D. [PSI]	VOLTAGE DISCONNECT BY SCCR	MANUFACTURER	MODEL REMARKS
	WS-1 WS-1						0 V 0 0 V 0		-
	REMARKS: 1. EXCHANGE CAPACITY AND FLOW RATE IS 2. SYSTEM SHALL BE PROGRESSIVE FLOW.	S PER TANK. PROVIDE WITH REQUIRED CONTROLS	AND FLOW SENSORS FOR PROPER	CYCLING OF TANKS.					
D									
D									
A									

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	ELI	ECTRICAL FIXTURE SYMBOL LEC	GEND		ELE	ECTRICAL FIXTURE	SYMBOL LEGEND			AL MISC SYN	IBOLS	ELECT	RICAL FIXTURE		
PLAN SYMBOL	JUNCTION BOX - WALL	GENERAL: PROVIDE JUNCTION BOX AS DESCRIBED IN THESE GENER. TYPE. REFER TO PLANS FOR JUNCTION BOX DESIGNATION WITH SINGLE GANG TRIM RING AND BLANK WALL PLATE W WHERE NOT INDICATED OTHERWISE. WHERE SHOWN ADJ MAXIMUM 12" BETWEEN BACK BOXES. WHERE SHOWN AS	REPTION RAL NOTES AND NOTES BELOW FOR EACH JUNCTION BOX IN. PROVIDE ONE (1) 4" SQUARE, 2-1/8" DEEP JUNCTION BOX WITH ONE (1) 1" CONDUIT TO ABOVE FINISHED CEILING JACENT TO RECEPTACLES ON FLOOR PLANS, PROVIDE SPART OF BRANCH CIRCUIT. PROVIDE CONDUCTORS		GROUND BAR	PROVIDE LENGTH AS REQUIRED GROUND BARS AND MINIMUM 10 SPECIFICATIONS FOR ADDITION/	DESCRIPTION TO ACCOMMODATE TERMINATIONS, MINIMU "IN LENGTH FOR TELECOMMUNICATIONS GF AL REQUIREMENTS.	JM 20" IN LENGTH FOR ELECTRICAL ROUND BARS. REFER TO		L NAME BRANCH CIRCUIT CO CEILING OR V	NCEALED IN VALL	PLAN SYMBO	SYMBOLS L NAME GENERATOR ANNUNCIA	TOR	
		WITHIN CONDUIT TO SOURCE INDICATED ON FLOOR PLANS TYPE 'EWC-1', ELECTRIC WATER COOLER: PROVIDE [DUPLEX RECEPTACLE] [JUNCTION BOX] AT APPF HEIGHT]" AFF. COORDINATE EXACT MOUNTING LOCATION SELECTION, AND PLUMBING CONTRACTOR INSTALLATION	NS. PROXIMATE LOCATION INDICATED. MOUNT AT [CONFIRM WITH ADA REQUIREMENTS, FINAL PLUMBING FIXTURE N LOCATION TO CONCEAL BEHIND EQUIPMENT PANEL.		JUNCTION BOX - CEILING	GENERAL: PROVIDE JUNCTION BOX AS DES TYPE. REFER TO FLOOR PLANS I JUNCTION BOX WITH SINGLE GA ACCESSIBLE CEILING WHERE NO	SCRIBED IN THESE GENERAL NOTES AND NO FOR JUNCTION BOX DESIGNATION. PROVIDE NG TRIM RING AND BLANK WALL PLATE WITH OT INSTALLED IN ACCESSIBLE CEILING. WHEI	DTES BELOW FOR EACH JUNCTION BOX E ONE (1) 4" SQUARE, 2-1/8" DEEP H ONE (1) 1" CONDUIT TO ABOVE ERE SHOWN ADJACENT TO CEILING	~~~	BRANCH CIRCUIT CO FLOOR OR BELOV	NCEALED IN V GRADE	GEN	RECEPTACLE - DOUBLE D	JPLEX	
		TYPE 'FF', MODULAR FURNITURE FEED POWER CONNECTION PROVIDE JUNCTION BOX WITH WALL PLATE AND FLEXIBLE FURNITURE AT APPROXIMATE LOCATION INDICATED. CIRC IN ASSOCIATED BRANCH PANEL. REFER TO FLOOR PLANS CONDUIT SIZE REQUIRED WITH QUANTITY OF BRANCH CIR OTHER BRANCHES, POWER CONNECTION SHALL BE TERM	TION: E CONDUIT CONNECTION FOR POWER TO MODULAR CUIT MODULAR FURNITURE TO 20A 120V BRANCH CIRCUITS S FOR BRANCH CIRCUIT DESIGNATIONS. COORDINATE RCUIT. ISOLATE BRANCH CIRCUIT CONDUCTORS FROM WINATED TO MODULAR FURNITURE PER MANUEACTURER			RECEPTACLES ON FLOOR PLANS BRANCH CIRCUIT, PROVIDE CON CIRCUIT DESIGNATION. TYPE 'LIGHT', CEILING PROCEDU PROVIDE 20A 120V BRANCH CIRC	S, PROVIDE MAXIMUM 8" BETWEEN BACK BO NDUCTORS WITHIN CONDUIT TO SOURCE. RE JRE LIGHT: CUIT TO OWNER FURNISHED CEILING PROCE	EDURE LIGHT AT APPROXIMATE		CLEARANCE S	PACE	₽	RECEPTACI E - DOUBLE D		
		REQUIREMENTS. PROVIDE ALL NECESSARY ACCESSORIES COORDINATE REQUIREMENTS WITH MODULAR FURNITURE FEED ADJACENT TO POWER FURNITURE FEED PER PLANS COORDINATE EXACT MOUNTING LOCATION WITH ARCHITE TYPE 'H', HORIZONTAL:	S FOR CONNECTION TO MODULAR FURNITURE FEED WHIP. RE MANUFACTURER. PROVIDE VOICE/DATA FURNITURE S. PROVIDE MAXIMUM 12" BETWEEN BACK BOXES. ECT AND MODULAR FURNITURE FINAL LOCATION.	0		TYPE 'SHADE', MOTORIZED SHAE PROVIDE 20A 120V BRANCH CIRC WITHIN 5'0" OF MOTORIZED SHAE JUNCTION BOX LEADS AND MOT CEILING LOCATION FOR LOW VO	DE: CUIT TO JUNCTION BOX, MOUNTED IN ACCES DE MOTOR LOCATION. PROVIDE CONNECTIO OR LEADS. PROVIDE ONE (1) 1" CONDUIT FRO DITAGE CONNECTION TO MOTORIZED SHADE	MENT SELECTION. SSIBLE LOCATION ABOVE CEILING ON TO MANUFACTURER FURNISHED OM MOTOR LOCATION TO ACCESSIBLE E CONTROLLER AND ANY APPLICABLE	د _ ۲	CONDUIT BR	EAK	ŧ	- EMERGENCY (RED) - C		
Q		TYPE 'LIGHT', CEILING PROCEDURE LIGHT WALL-MOUNTED PROVIDE ROUGH-IN FOR CEILING PROCEDURE LIGHT WALL LIGHT MANUFACTURER. MOUNT BACK BOX AT 48" AFF. CO EQUIPMENT SELECTION.	D CONTROLLER: LL-MOUNTED CONTROLLER, FURNISHED BY PROCEDURE DORDINATE ROUGH-IN REQUIREMENTS WITH FINAL			SPLITTERS. MOUNT SPLITTERS I EQUIPMENT SELECTION. TYPE 'EWC-1', ELECTRIC WATER PROVIDE 20A 120V BRANCH CIRC TOGGLE SWITCH DISCONNECTIN	IN LOCATION PER MANUFACTURER REQUIRE COOLER, REMOTE CHILLER: CUIT TO REMOTE CHILLER, MOUNTED ABOVE NG MEANS. COORDINATE WITH FINAL EQUIPM	EMENTS. COORDINATE WITH FINAL E FINISHED CEILING. PROVIDE WITH MENT SELECTION.		CONDUIT DC	WN	ዋ	RECEPTACLE - DUPLEX -	CONV	
		TYPE 'SHADE', MOTORIZED SHADE WALL-MOUNTED CONTR PROVIDE ROUGH-IN FOR WALL-MOUNTED SHADE CONTRO MOUNT BACK BOX AT 48" AFF. COORDINATE ROUGH-IN RE TYPE 'TUBE', PNEUMATIC TUBE STATION:	TROLLER: OLLER, FURNISHED BY CONTROLLER MANUFACTURER. EQUIREMENTS WITH FINAL EQUIPMENT SELECTION.		F				•	CONDUIT STUE	3-OUT	Ψ	RECEPTACLE - DUPLEX - (GFCI	ONV -	
		PROVIDE DUPLEX RECEPTACLE AT APPROXIMATE LOCATION INDICATED ON FLOOR PLANS. COORDINATE MOUNTING HE FINAL EQUIPMENT SELECTION. PROVIDE NETWORK DATA RECEPTACLE. [PNEUMATIC TUBE SYSTEM INFORMATION IS 120V HARD-WIRED CRITICAL BRANCH CIRCUIT FOR PNEUM STATION LOCATION. PROVIDE 20A, 120V TOGGLE SWITCH I LOCATION. PROVIDE ONE (1) XXA, XXXV BRANCH CIRCUIT	TON INDICATED, CIRCUITED TO CRITICAL BRANCH CIRCUIT IEIGHT AND FINAL CONNECTION REQUIREMENTS WITH CONNECTION, MOUNTED ADJACENT TO DUPLEX IS PRELIMINARY AT THIS TIME. PROVIDE ADDITIONAL 20A MATIC TUBE SYSTEM TRANSFER STATION FOR EACH TUBE I DISCONNECT SWITCH AT EACH TRANSFER STATION TO SERVE PNEUMATIC TUBE BLOWER FOR ENTIRE	PLAN SYMBOI	L NAME CABLE TRAY	PROVIDE CABLE TRAY AT LOCAT COORDINATE MOUNTING WITH C	DESCRIPTION TIONS INDICATED ON PLANS. REFER TO FLOC OTHER TRADES AND REQUIREMENTS IN SPEC SKET CABLE TRAY:	OR PLANS FOR TYPE DESIGNATION. CIFICATION.	E	CONDUIT I	IP	P	RECEPTACLE - DUPLE EMERGENCY (RED) - CO	K - NV	
		SYSTEM. PROVIDE XXA, XXXV NON-FUSED DISCONNECT S IN X/X"C. EXACT BRANCH CIRCUITS, SOURCE, AND LOCATI SELECTION.] TYPE 'USB', POWER USB ONLY DEVICE: PROVIDE [PASS & SEYMOUR CATALOG # TM8USB4**CC6] [H	SWITCH AT BLOWER LOCATION. PROVIDE 3-#XX, #XX GND FIONS ARE TO BE DETERMINED WITH FINAL EQUIPMENT	12" LADDER	LIGHTING CONTROL TAG	PROVIDE CABLE TRAY IN DIMENS TYPE 'WIDTH LADDER', LADDER (PROVIDE CABLE TRAY IN DIMENS REFER TO LIGHTING CONTROL S	SION INDICATED ON FLOOR PLANS. CABLE TRAY: SION INDICATED ON FLOOR PLANS. SCHEDULE FOR ADDITIONAL INFORMATION.		o—				RECEPTACLE - DUPLE EMERGENCY (RED) - CC GFCI	K - NV -	
		UNARGING DEVICE OK PRIOR APPROVED EQUIVALENT AT WIRING DEVICES PER SPECIFICATION. PROVIDE 4" SQUAR CONDUIT TO SOURCE. COORDINATE BACK BOX DEPTH WI FOR APPROVAL. REFER TO MANUFACTURER INSTALLATIO TYPE 'DISH', DISHWASHER: PROVIDE 20A 120V ELECTRICAL CONNECTION FOR DISHWA	A THIS LOCATION. DEVICE SHALL MATCH COLOR OF OTHER RE BACK BOX WITH SINGLE GANG TRIM RING AND 3/4" (TH FINAL DEVICE SELECTION. SUBMIT SHOP DRAWINGS ON INSTRUCTIONS FOR ADDITIONAL DETAILS. VASHER AT APPROXIMATE LOCATION INDICATED. MOUNTED							HOMERUN TO F G = GFCI CIR((PART) = PARTIAL	PANEL CUIT CIRCUIT	π	RECEPTACLE - DUPLE EMERGENCY (RED) - KN LOAD	K- DWN	
	POWER POLE	WITHIN ADJACENT CABINET. ELECTRICAL CONNECTION SE PROVIDE 20A, 1 POLE GFCI PROTECTED CIRCUIT BREAKER CONNECTION REQUIREMENTS WITH MANUFACTURER AND GENERAL:	SHALL NOT BE ROUGHED-IN BEHIND DISHWASER LOCATION. R. COORDINATE MOUNTING LOCATION AND FINAL D FINAL EQUIPMENT SELECTION.		L	IGHTING DEVICE S	YMBOL LEGEND		Ċ	SWITCHED RECE	PTACLE	P	RECEPTACLE - DUPLE EMERGENCY (RED) - KN	K- DWN	
		PROVIDE POWER POLE AS DESCRIBED IN THESE GENERAL TYPE. REFER TO PLANS FOR POWER POLE DESIGNATION. INSTALLED HEIGHT. ROUTE POWER CONDUCTORS IN POW DIVIDER RACEWAY TO SEPARATE 120V CIRCUITS FROM LO QUANTITIES OF NETWORK VOICE/DATA CABLES TO BE PRO WITH FIELD VERIFIED FINAL TERMINATION LOCATIONS. PR AND FACEPI ATES WITHIN POWER POLE PER SPECIFICATION	AL NOTES AND NOTES BELOW FOR EACH POWER POLE I. COORDINATE POLE HEIGHT WITH FINAL CEILING WER RACEWAY OF VERTICAL POWER POLE. PROVIDE .OW VOLTAGE CABLING. REFER TO FLOOR PLANS FOR ROVIDED TO POWER POLE. COORDINATE CABLE LENGTHS ROVIDE NETWORK VOICE/DATA CABLES, JACKS, INSERTS, ION SECTION 271200, PROVIDE ALL ACCESSORIES FOR A	PLAN SYMBOI	PUSH BUTTON	DEVICE SHALL PROVIDE ON/OFF LIGHTING ZONE(S) IN AREA. PRO ZONES ARE INDICATED, PROVID ADDITIONAL DEVICES.	DESCRIPTION CONTROL OF ZONES INDICATED. SUBSCRIP VIDE DEVICE CAPABLE OF SWITCHING QUAN E CONTROL OF SINGLE ZONE. MUST BE CAP,	PT LETTER(S) CORRESPOND TO NTITY OF ZONES INDICATED. WHERE NO PABLE OF 3 AND 4 WAY SWITCHING FROM				P	LOAD - GFCI RECEPTACLE - DUPLEX - K	NOWN	
		COMPLETE INSTALLATION. INCLUDING BUT NOT LIMITED T FLOOR SUPPORT PLATE, FACEPLATES, DEVICE JACKS, AN SHOP DRAWINGS FOR APPROVAL. TYPE P1: PROVIDE [WIREMOLD NP800 SERIES] VERTICAL POWER AN	TO DEVICE COVERS, CEILING TRIM PLATE, UTILITY BOX, ND SUPPORTS CONCEAL SOURCE CONNECTION. SUBMIT	●		TYPE 'D' – DEVICE SHALL PROVIL LETTER(S) CORRESPOND TO LIG ZONES INDICATED. MUST BE CAI TYPE 'SC#' – DEVICE SHALL PRO SCENES. NUMBER INDICATES QU SCHEDULE FOR DESCRIPTION O	DE ON/OFF AND MIN/MAX DIMMING CONTROL GHTING ZONE(S) IN AREA, PROVIDE DEVICE C PABLE OF 3 AND 4 WAY SWITCHING FROM AL WIDE SCENE CONTROL CAPABLE OF CONTRO UANTITY OF SCENES TO BE SELECTED AT TH OF DESIRED SCENES.	L OF ZONES INDICATED. SUBSCRIPT CAPABLE OF SWITCHING QUANTITY OF DDITIONAL DEVICES. COLLING ALL ZONES IN ROOM BY PRESET HIS LOCATION. SEE LIGHTING SCENE	FIRE AI PLAN SYMBOI	LARM SYMBC	DLS EM HEAT -	Ф			
P#		TWO (2) DUPLEX [HOSPITAL GRADE] RECEPTACLES. TYPE P2: PROVIDE [WIREMOLD NP800 SERIES] VERTICAL POWER AN EQUIVALENT) IN [ANODIZED ALUMINUM] [GRAY] [WHITE] FIN WITH TWO (2) DUPLEX [HOSPITAL GRADE] RECEPTACLES.	ND COMMUNICATIONS POLE (OR PRIOR APPROVED INISH. PROVIDE TWO (2) 20A 120V BRANCH CIRCUITS, EACH			TYPE 'GFX' – DEVICE SHALL INCL ON/OFF AND MIN/MAX DIMMING (LUDE GRAPHICAL TOUCH SCREEN TO PROVI CONTROL OF ALL ZONES IN ROOM.	IDE SCENE CONTROL AS WELL AS		DETECTOR - SYSTE CEILING	M SMOKE -	Щ	LOAD - GFCI		
		TYPE FF: PROVIDE [WIREMOLD NP800 SERIES] VERTICAL POWER AN EQUIVALENT) IN [ANODIZED ALUMINUM] [GRAY] [WHITE] FIN AND FLEXIBLE CONDUIT CONNECTION FOR POWER TO MO [*** (#)] 20A 120V BRANCH CIRCUITS IN ASSOCIATED BRANC	ND COMMUNICATIONS POLE (OR PRIOR APPROVED INISH. PROVIDE WALL PLATE MOUNTED ON POWER POLE ODULAR FURNITURE. CIRCUIT MODULAR FURNITURE TO ICH PANEL. REFER TO FLOOR PLANS FOR BRANCH CIRCUIT			FIRE ALARM SYM			•	FIRE ALARM RE	MOTE				
		DESIGNATIONS. POWER CONNECTION SHALL BE TERMINA REQUIREMENTS. PROVIDE BLANK FACEPLATE WITH 1-1/2" POWER POLE LOW VOLTAGE CHANNEL, THROUGH GROMM COMMUNICATIONS RACEWAY. CABLES SHALL TERMINATE COORDINATE CABLE LENGTHS WITH FIELD VERIFIED FINAL REQUIREMENTS WITH MODULAR FURNITURE AND POWER ACCESSORIES FOR CONNECTION TO MODULAR FURNITUR	ATED TO MODULAR FURNITURE PER MANUFACTURER "GASKETED GROMMET. CABLING SHALL PASS THROUGH IMET, AND ROUTE THROUGH MODULAR FURNITURE E TO DEVICES MOUNTED WITHIN MODULAR FURNITURE. AL TERMINATION LOCATIONS. COORDINATE R POLE MANUFACTURERS. PROVIDE ALL NECESSARY RE FEED WHIP. COORDINATE EXACT MOUNTING LOCATION	FACP	FIRE ALARM CONTROL PANE	EL - BRANCH PANEL (INSTALL CIRCU CIRCUIT DESIGNATION. PROVIDE SHOWN WITH ROOM DETECTION	DESCRIPTION A 120V BRANCH CIRCUIT IN ASSOCIATED [LIF IT BREAKER LOCK ON BRANCH BREAKER). R E SYSTEM SMOKE DETECTOR AT CEILING WI N COVERAGE ON PLAN). PROVIDE TWO (2) VC	FE SAFETY] [EMERGENCY] [NORMAL] REFER TO FLOOR PLANS FOR BRANCH ITHIN 5 FEET OF PANEL (UNLESS DICE CONNECTIONS TO FACP.	FAA	ANNUNCIAT	OR				
	RECEPTACLE - DUPLEX - US	OF POWER POLES WITH ARCHITECT AND MODULAR FURNI OF WALL PLATES AND FACEPLATES WITH FINAL MODULAR BB PROVIDE [PASS & SEYMOUR CATALOG # TR8300HUSB*** C DUPLEX RECEPTACLE AND TWO (2) USB TYPE A CHARGING COMBINATION HOSPITAL GRADE TAMPER RESISTANT DUP	NITURE FINAL LOCATION. COORDINATE MOUNTING HEIGHTS R FURNITURE SELECTION AND LOCATION. COMBINATION HOSPITAL GRADE TAMPER RESISTANT NG DEVICEJ [PASS & SEYMOUR CATALOG # TR15HUSBCC*** PLEX RECEPTACLE AND TWO (2) USB TYPE C CHARGING		SMOKE DAMPER OR FIRE/SMO DAMPER	OKE CIRCUIT FIRE AND FIRE/SMOKE I CIRCUITS IN ASSOCIATED [LIFE S ON BRANCH BREAKERS). EACH E CIRCUITS FOR EACH AIR HANDLI EACH DAMPER INDIVIDUALLY WI	DAMPERS PROVIDED BY MECHANICAL CONT SAFETY] [EMERGENCY] [NORMAL] BRANCH P. BRANCH CIRCUIT SHALL SERVE A MAXIMUM ING UNIT ZONE. REFER TO MECHANICAL PLA ITH ADDRESSABLE CONTROL MODULES FRO	RACTOR TO 20A 120V BRANCH PANEL (INSTALL CIRCUIT BREAKER LOCK OF 20 DAMPERS. PROVIDE INDIVIDUAL ANS FOR ASSOCIATED ZONES. CONTROL DM FIRE ALARM SYSTEM. LABEL EACH	F	HORN AND ST COMBINATION - (ROBE CEILING				
USB P		DEVICEJ [PASS & SEYMOUR CATALOG # TR20HUSBAC*** CO DUPLEX RECEPTACLE, ONE (1) USB TYPE A, AND ONE (1) U USB8300A5** COMBINATION HOSPITAL GRADE TAMPER RE CHARGING DEVICEJ [HUBBELL CATALOG # USB8300C5** CC DUPLEX RECEPTACLE AND TWO (2) USB TYPE C CHARGING COMBINATION HOSPITAL GRADE TAMPER RESISTANT DUP TYPE C CHARGING DEVICE] [HUBBELL CATALOG # USB20A9	COMBINATION HOSPITAL GRADE TAMPER RESISTANT USB TYPE C CHARGING DEVICE] [HUBBELL CATALOG # ESISTANT DUPLEX RECEPTACLE AND TWO (2) USB TYPE A OMBINATION HOSPITAL GRADE TAMPER RESISTANT NG DEVICE] [HUBBELL CATALOG # USB8300AC5** PLEX RECEPTACLE, ONE (1) USB TYPE A, AND ONE (1) USB A5** COMBINATION COMMERCIAL GRADE TAMPER			RELAY WITH THE NAME OF THE / DAMPER CONTROL". [PROVIDE S DAMPER TO CONTROL DAMPER. CORRIDOR WALL OR CEILING AN CORRIDOR.][CONTROL DAMPER PROVIDE REMOTE STATUS INDIC MOUNTING LOCATION WITH OWI	AIR HANDLING UNIT SERVING THE SMOKE ZO SYSTEM DUCT SMOKE DETECTOR IN ACCESS . DUCT DETECTOR MAY BE OMITTED WHERE ND IS CONTROLLED BY AN AREA SMOKE DET BY ACTIVATION OF ANY SMOKE DETECTOR N CATOR AND TEST STATION FOR DETECTOR A NER. REFER TO ILIGHTINGI ILOW VOLTAGEI F	ONE AND WITH THE WORDS "SMOKE SIBLE LOCATION WITHIN 5 FEET OF THE E THE DAMPER IS INSTALLED IN A "ECTION SYSTEM INSTALLED IN THE WITHIN AIR HANDLING UNIT ZONE.] AND COORDINATE ASSOCIATED FLOOR PLANS FOR DAMPER	F w	HORN AND ST COMBINATION	ROBE - WALL				
		RESISTANT DUPLEX RECEPTACLE AND TWO (2) USB TYPE COMBINATION COMMERCIAL GRADE TAMPER RESISTANT I CHARGING DEVICE] [HUBBELL CATALOG # USB20AC5** COI DUPLEX RECEPTACLE, ONE (1) USB TYPE A, AND ONE (1) U EQUIVALENT AT THIS LOCATION. DEVICE SHALL MATCH CO PROVIDE 4" SQUARE BACK BOX WITH SINGLE GANG TRIM F BOX DEPTH WITH FINAL DEVICE SELECTION. SUBMIT SHOP	E A CHARGING DEVICE] [HUBBELL CATALOG # USB20C5** DUPLEX RECEPTACLE AND TWO (2) USB TYPE C DMBINATION COMMERCIAL GRADE TAMPER RESISTANT USB TYPE C CHARGING DEVICE] OR PRIOR APPROVED COLOR OF OTHER WIRING DEVICES PER SPECIFICATION. RING AND 3/4" CONDUIT TO SOURCE. COORDINATE BACK OP DRAWINGS FOR APPROVAL REFER TO MANUEACTURER			LOCATIONS.			F	MANUAL PULL S	TATION				
	RECEPTACLE - NEMA	INSTALLATION INSTRUCTIONS FOR ADDITIONAL DETAILS. PROVIDE ONE (1) 4" SQUARE, 2 1/8" DEEP JUNCTION BOX V ELECTRICAL SOURCE SIZED AS INDICATED BELOW. REFER DESIGNATION. PROVIDE DEVICE, FEEDER, AND CIRCUIT BF [•NEMA 6-20 & L6-20: 2-#12, #12 GND IN 3/4" CONDUIT; 20A, 2 [•NEMA 15-20 & L15-20: 3-#12, #12 GND IN 3/4" CONDUIT; 20A	WITH 1 GANG TRIM RING. PROVIDE CONDUIT TO R TO FLOOR PLANS FOR ELECTRICAL SOURCE AND NEMA BREAKER AS LISTED BELOW: 2 POLE CIRCUIT BREAKER]						Ē	STROBE - CEI	LING				
φ		[•NEMA 6-30 & L6-30: 2-#10, #10 GND IN 3/4" CONDUIT; 30A, 2 [•NEMA 14-30 &L14-30 (CLOTHES DRYER): 3-#10, #10 GND IN [•NEMA 21-30 & L21-30: 4-#10, #10 GND IN 3/4" CONDUIT; 30A [•NEMA 6-50 & L6-50 (WELDER): 2-#6, #10 GND IN 1" CONDUI [•NEMA 14-50 & L14-50 (RANGE): 3-#6, #10 GND IN 1" CONDU [•NEMA 15-50 & L15-50: 3-#6, #10 GND IN 1" CONDUIT; 50A, 3	2 POLE CIRCUIT BREAKER] N 3/4" CONDUIT; 30A, 2 POLE CIRCUIT BREAKER] IA, 3 POLE CIRCUIT BREAKER] IIT; 50A, 2 POLE CIRCUIT BREAKER] UIT; 50A, 2 POLE CIRCUIT BREAKER] 3 POLE CIRCUIT BREAKER]						Ēw	STROBE - W.	ALL	OW VOLT	AGE COORDINA	TIONLEGEN	D
	SURFACE RACEWAY - POWE	ER GENERAL: PROVIDE SURFACE RACEWAY AS DESCRIBED IN THESE GI RACEWAY TYPE. REFER TO PLANS FOR RACEWAY DESIGN LOCATED WITHIN 6'-0" OF SINK EDGE. PROVIDE RACEWAY WHERE INDICATED ABOVE COUNTERTOP. MOUNT AT 48" A INDICATED. PROVIDE MINIMUM ONE (1) [20A 120V BRANCH CIRCUIT FOR FACH 8' 0" OF RACEWAY REFER TO PLAN SH	GENERAL NOTES AND NOTES BELOW FOR EACH SURFACE NATION. PROVIDE GFCI TYPE RECEPTACLES WHERE Y LENGTH PER PLANS. MOUNT 5" ABOVE BACKSPLASH AFF AT ALL OTHER LOCATIONS, UNLESS OTHERWISE H CIRCUIT FOR EACH 10'-0" OF RACEWAY][15A 120V BRANCH HEETS FOR CIRCUIT DESIGNATIONS, COORDINATE								SYSTEM ACCESS CONT AUDIO / VIDEO INT	RC S PA ROL TERCOM	UGH-INS & CABLING ATHWAYS TERMINAT CF/CI OF/OI CF/CI OF/OI	G & DEVICES & IONS EQUIPMEN OF / OI OF / OI	-
		REQUIREMENTS WITH RACEWAY MANUFACTURER. PROVI INCLUDING BUT NOT LIMITED TO: END CAPS, COUPLINGS, WALL. COORDINATE EXACT MOUNTING HEIGHT AND LOCA RACEWAYS ARE LOCATED ON PRE-CAST CONCRETE WALL COLUMN PROVIDED WITH THE LABORATORY FURNITURE. OVERHEAD SERVICE CARRIER. OVERHEAD SERVICE CARR	IDE ALL ACCESSORIES FOR A COMPLETE INSTALLATION, , AND SUPPORTS. CONCEAL ALL CONDUITS IN ADJACENT ATION WITH ARCHITECTURAL ELEVATIONS. [WHERE LLS, ROUTE CONDUITS IN ASSOCIATED VERTICAL UTILITY . WHERE NOTED WITH 'OSC', MOUNT RACEWAY ON RIER IS PROVIDED AS LABORATORY EQUIPMENT. PROVIDE								AUDIO / VISU DURESS FIRE ALARI INTRUSION DETE MED GAS ALA	AL	CF / CI OF / OI CF / CI OF / OI CF / CI CF / CI CF / CI OF / OI CF / CI OF / OI	OF / OI OF / OI CF / CI OF / OI CF / CI	
SR#		SURFACE MOUNTED CONDUIT SECURED TO OVERHEAD SI CEILING.] TYPE 'SR#', 20A STEEL RACEWAY: PROVIDE WIREMOLD SERIES 2400 PLUGMOLD SINGLE CHA FINISH. PROVIDE WITH SIMPLEX RECEPTACLES LOCATED COUPLED TOGETHER TO MATCH OVERALL LENGTHS INDIC	ANNEL STEEL SURFACE RACEWAY. PROVIDE WITH IVORY 0 0'-6" ON CENTER. PROVIDE 3'-0", 5'-0", AND 6'-0" SECTIONS ICATED ON PLANS.								PATIENT MONITORING PUBLIC ADDR REFRIGERATOR/FREE SECURITY SURVEILLA STAFF TIME CL	TELEMETRY ESS ZER ALARM NCE (CCTV) OCK	CF / CI OF / OI CF / CI OF / OI	OF / OI OF / OI	
		TYPE 'SR#', 15A STEEL RACEWAY: PROVIDE WIREMOLD SERIES 2000 (OR PRIOR APPROVED E SURFACE RACEWAY. PROVIDE WITH [BLACK][IVORY][GRAY SIMPLEX RECEPTACLES LOCATED 0'-6" ON CENTER. PROV MATCH OVERALL LENGHTS INDICATED ON PLANS.	EQUIVALENT) PLUGMOLD SINGLE CHANNEL STEEL Y][WHITE][STAINLESS STEEL] FINISH. PROVIDE WITH VIDE 3', 5', AND 6' SECTIONS COUPLED TOGETHER TO								SYNCHRONOUS (TELEVISION (C TEMPERATURE MO VIDEO SURVEILI VOICE / DAT WIRELESS ACCESS	CLOCKS ATV) NITORING ANCE ANCE S POINTS	CF / CI CF / CI CF / CI OF / OI	OF / OI OF / OI OF / OI OF / OI OF / OI	
		TYPE 'SR#', 15A ALUMINUM RACEWAY: PROVIDE WIREMOLD SERIES AL2000 (OR PRIOR APPROVED SURFACE RACEWAY. PROVIDE WITH ANODIZED FINISH. PR CENTER. PROVIDE 4', 5', AND 6' SECTIONS COUPLED TOGE PLANS.	ED EQUIVALENT) PLUGMOLD SINGLE CHANNEL ALUMINUM ROVIDE WITH SIMPLEX RECEPTACLES LOCATED 0'-6" ON ETHER TO MATCH OVERALL LENGHTS INDICATED ON								LEGEND: (LOW VOLTAG CF: CONTRACTOR FUR CI: CONTRACTOR INST OF: OWNER FURNISHE	GE COORDINATION L NISHED ALLED D	EGEND)		1
											OI: OWNER INSTALLED <u>REMARKS: (LOW VOLT,</u> 1. MEDICAL GAS ALAF 2. REFRIGERATOR/FF TO MONITORED EC	AGE COORDINATION RM PANELS TO BE P REEZER ALARM SYS RUIPMENT AS INDICA	I <u>LEGEND)</u> ROVIDED BY MECHANICAL CO TEM IS A WIRELESS SENSOSC TED ON THE FLOOR PLANS.	ITRACTOR. ENCE SYSTEM. PROVIDI	E RECE
											GENERAL NOTES: (LOV A. REFER TO SYMBOL B. COORDINATE ROU C. COORDINATE ROU	V VOLTAGE COORDI . LEGENDS AND SPE GH-IN REQUIREMEN GH-IN REQUIREMEN	<u>NATION LEGEND)</u> ICIFICATIONS FOR SPECIFIC R TS WITH FINAL EQUIPMENT SE TS WITH OWNER FOR OWNER	EQUIREMENTS. LECTION FOR ALL SYST FURNISHED SYSTEMS.	EMS.



ELECTRICAL FIXTURE SYMBOLS				
PLAN SYMBOL	NAME			
	GENERATOR ANNUNCIATOR			
GEN				
Ŧ	RECEPTACLE - DOUBLE DUPLEX - CONV			
ŧ	RECEPTACLE - DOUBLE DUPLEX - EMERGENCY (RED) - CONV			
ዋ	RECEFTAGLE - DUPLEX - CONV			
	RECEPTACIE - DUPLEY - CONV -			
Ψ	GFCI			
	RECEPTACLE - DUPLEX -			
P	EMERGENCT (RED) - CONV			
Ģ	RECEPTACLE - DUPLEX - EMERGENCY (RED) - CONV - GFCI			
P	RECEPTACLE - DUPLEX - EMERGENCY (RED) - KNOWN LOAD			
Ŗ	RECEPTACLE - DUPLEX - EMERGENCY (RED) - KNOWN LOAD - GFCI			
	RECEPTACLE - DUPLEX - KNOWN			
φ	LOAD			
	RECEPTACLE - DUPLEX - KNOWN			
Щ				

D. CONDUITS SHALL ROUTE CONCEALED INSIDE WALL TO ABOVE NEAREST ACCESSIBLE CORRIDOR CEILING SPACE, UNLESS OTHERWISE INDICATED.

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ARE SELECTED FOR INSTALLATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATELY RATED EQUIPMENT THAT MEETS APPLICABLE SELECTIVE COORDINATION GOALS AND PROVIDES SIMILAR INCIDENT ENERGY RISK OF ARC FLASH HAZARDS. G. PROVIDE AN INSULATED CONTINUOUS COPPER CONDUCTOR, NOT SMALLER THAN #10, TO BOND ALL NORMAL AND ESSENTIAL ELECTRICAL SYSTEM PANELBOARDS TOGETHER THAT SERVE THE SAME INDIVIDUAL PATIENT VICINITY AS DEFINED IN NEC 517.14. H. ALL CRITICAL AND LIFE SAFETY BRANCH CIRCUITS, INCLUDING LIGHTING AND WALL RECEPTACLES, SHALL BE MECHANICALLY PROTECTED PER NEC 517.31(C)(3). NON-FLEXIBLE RACEWAY SHALL BE USED FOR CRITICAL AND LIFE SAFETY BRANCH CIRCUITS, EXCEPT THAT THE FINAL CONNECTION TO VIBRATING EQUIPMENT OR LIGHT FIXTURES IF THE TOTAL LENGTH OF FLEXIBLE RACEWAY IS 6' OR LESS ACROSS THE ENTIRE CIRCUIT LENGTH. I. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO INDEPENDENTLY SUPPORT ALL EXISTING TO REMAIN

5

A. BRANCH CIRCUITS WITH A TOTAL LENGTH LONGER THAN 75' SHALL UTILIZE #10 AWG CONDUCTORS. RECEPTACLE BRANCH CIRCUITS WITH A TOTAL LENGTH LONGER THAN 150' SHALL UTILIZE #8 AWG CONDUCTORS. B. FOR ALL CONDUIT AND OTHER ITEMS PENETRATING A FIRE RATED WALL, PROVIDE UL LISTED THROUGH PENETRATION FIRE STOPPING SYSTEM THAT IS SPECIFIC TO THE WALL CONSTRUCTION ASSEMBLY AND COMPLIANT WITH ASTM E814. INSTALL SYSTEM IN STRICT COMPLIANCE WITH THE FIRE STOPPING

MANUFACTURER'S U.L. APPROVED DETAIL. WHERE EXISTING WALLS ARE BEING UPGRADED TO FIRE RATED WALLS OR THE FIRE RATING IS BEING MODIFIED, PROVIDE U.L. LISTED THROUGH PENETRATION FIRE STOPPING SYSTEM FOR ALL NEW AND EXISTING PENETRATIONS. REFER TO THE ARCHITECTURAL LIFE

C. NEW ROOF MOUNTED EQUIPMENT SHALL BE BONDED TO EXISTING BUILDING LIGHTNING PROTECTION SYSTEM IF ONE EXISTS. PROVIDE AIR TERMINALS ON TOP OF EQUIPMENT AND BOND TO EXISTING SYSTEM PER NFPA 780 AND UL 96A REQUIREMENTS. PROVIDE UL INSPECTION AND/OR LPI SYSTEM INSPECTION AS REQUIRED TO OBTAIN UL MASTER LABEL RECERTIFICATION, UL MASTER LABEL AND/OR LPI SYSTEM

E. NEW WIRING DEVICES AND ASSOCIATED COVERPLATES SHALL MATCH EXISTING FINISH OF SIMILAR

F. THE SELECTED EQUIPMENT AIC RATINGS ARE BASED ON THE IMPEDANCES FOR CONDUCTORS AND

TRANSFORMERS USED IN THE CALCULATIONS. IF DIFFERENT EQUIPMENT OR DIFFERENT CONFIGURATIONS

ELECTRICAL GENERAL NOTES: (GENERAL NOTES SHALL APPLY TO ALL SHEETS)

INSTALLED DEVICES.

CABLING.

SAFETY PLANS FOR LOCATIONS OF FIRE RATED WALLS.

ELECTRICAL ABBREVIATIONS

ABBREVIATION	DESCRIPTION
##"	MOUNTING HEIGHT TO CENTERLINE (ABOVE FINISHED FLOOR)
А	AMPERE
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
AT	AMPERE TRIP
С	CEILING
СВ	CIRCUIT BREAKER
CCT	CORRELATED COLOR TEMPERATURE
CU	COPPER
D	DATA (WHEN APPLIED TO COMMUNICATIONS OUTLET)
D	DEMO (WHEN APPLIED TO EXISTING/DEMO ITEMS)
Е	EXISTING
EO	ELECTRICALLY OPERATED
ERMS	ENERGY REDUCING MAINTENANCE SWITCH
F	FUSE
FLA	FULL LOAD AMPS
G, GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFA	GROUND FAULT ALARM
GFP	GROUND FAULT PROTECTION
HP	HORSEPOWER
KAIC	KILOAMPERE INTERRUPTING CAPACITY
KVA	KILOVOLT AMPERE
KW	KILOWATT
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
МО	MANUALLY OPERATED
NC	NORMALLY CLOSED
NF	NON-FUSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
Р	POLES
PART	PARTIAL
R	RELOCATE
SCCR	SHORT CIRCUIT CURRENT RATING
SPD	SURGE PROTECTIVE DEVICE
ST	SHUNT TRIP
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOICE
W	WALL PHONE
W	WIRE
WR	WEATHER RESISTANT
XFMR	TRANSFORMER
ZSI	ZONE SELECTIVE INTERLOCKING
REFER TO	OTHER SCHEDULES AND NOTES FOR ADDITIONAL ABBREVIATIONS.



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		DATA SYMBOL LEGEND
PLAN SYMBOL	NAME	DESCRIPTION
	COMMUNICATIONS OUTLET - WALL	GENERAL: PROVIDE COMMUNICATIONS OUTLET AS DESCRIBED IN THESE GENERAL NOTES AND NOTES BELOW FOR EACH OUTLET TYPE. REFER TO PLANS FOR OUTLET DESIGNATION AND QUANTITIES OF NETWORK VOICE/DATA CABLES TO BE PROVIDED TO OUTLET FROM ASSOCIATED NEAREST COMMUNICATIONS DISTRIBUTION ROOM. PROVIDE ROUGH-IN PER COMMUNICATIONS OUTLET DETAIL. PROVIDE ALL COMPONENTS REQUIRED FOR A COMPLETE SYSTEM PER SPECIFICATION SECTION 271200 INCLUDING, BUT NOT LIMITED TO INSTALLATION, CONFIGURATION, DEVICES, JACKS, INSERTS, FACEPLATES, AND CABLING. SUBMIT SHOP DRAWINGS FOR APPROVAL. COORDINATE EXACT FINAL LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS PRIOR TO INSTALLATION. PROVIDE CABLING AS LISTED BELOW. OUTLETS WITH NO CABLING DESIGNATION SHALL BE EMPTY WITH A BLANK WALL PLATE. CABLING DESIGNATIONS ARE TYPICAL FOR ALL WALL, FLOOR, AND CEILING COMMUNICATIONS DEVICES. REFER TO SPECIFICATIONS FOR CABLING REQUIREMENTS FOR EACH TYPE.
		-A = ONE (1) ANALOG VOICE CABLE -V = ONE (1) VOICE CABLE -D = ONE (1) DATA CABLE
▼		TYPE 'H', HORIZONTAL: PROVIDE COMMUNICATIONS OUTLET DESCRIBED ABOVE, MOUNTED HORIZONTALLY TO ACCOMMODATE BUILDING CONSTRAINTS.
		TYPE 'W', WALL PHONE: PROVIDE ONE (1) NETWORK [ANALOG VOICE] [VOICE] [DATA] CABLE, MOUNTED IN WALL PHONE MOUNTING BRACKET FACEPLATE, MOUNTED AT 48" AFF. COORDINATE MOUNTING LOCATION WITH OTHER TRADES AND FINAL EQUIPMENT SELECTION.
		TYPE 'FF', MODULAR FURNITURE FEED VOICE/DATA CONNECTION: PROVIDE ONE (1) [4" SQUARE, 2 1/8" DEEP] [4 11/16" SQUARE, 2 1/8" DEEP, RACO 259] [4 11/16" SQUARE, 3 ¼" DEEP, RACO 260] JUNCTION BOX WITH TWO GANG TRIM RING AND BLANK FACEPLATE WITH 1 1/2" GASKETED GROMMET AT APPROXIMATE LOCATION INDICATED. PROVIDE ONE (1) [1"] [1 1/4"] [2"] CONDUIT [TO ABOVE FINISHED CEILING] [TO ABOVE FINISHED CORRIDOR CEILING] [TO NEAREST CORRIDOR CABLE TRAY] PER COMMUNICATIONS OUTLET DETAIL. CABLING SHALL PASS THROUGH JUNCTION BOX AND ROUTE THROUGH MODULAR FURNITURE COMMUNICATIONS RACEWAY. CABLES SHALL TERMINATE TO DEVICES MOUNTED WITHIN MODULAR FURNITURE. COORDINATE CABLE LENGTHS WITH FIELD VERIFIED FINAL TERMINATION LOCATIONS. COORDINATE REQUIREMENTS WITH MODULAR FURNITURE MANUFACTURER. PROVIDE VOICE/DATA FURNITURE FEED ADJACENT TO POWER FURNITURE FEED PER PLANS. PROVIDE MAXIMUM 12" BETWEEN BACK BOXES. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECT AND MODULAR FURNITURE FINAL LOCATION.
	ROUGH-IN TELEVISION OUTLET - WALL	GENERAL: PROVIDE TELEVISION, DATA, AND AUDIO/VISUAL CONNECTIONS AS DESCRIBED IN THESE GENERAL NOTES AND NOTES BELOW FOR EACH TELEVISION TYPE. REFER TO PLANS FOR TELEVISION OUTLET/ WALL BOX DESIGNATION. PROVIDE RG6 COAX CABLES FROM ASSOCIATED [ELECTRICAL] [COMMUNICATIONS DISTRIBUTION] ROOM CATV DISTRIBUTION POINT. PROVIDE NETWORK DATA CABLE FROM ASSOCIATED COMMUNICATIONS DISTRIBUTION ROOM, PROVIDE CATV CABLES, NETWORK DATA CABLES, AUDIO/VISUAL CABLES, JACKS, INSERTS, AND FACEPLATES PER SPECIFICATION SECTIONS 274133 AND 271200. COORDINATE REQUIREMENTS WITH WALL BOX MANUFACTURER. PROVIDE ALL ACCESSORIES FOR A COMPLETE INSTALLATION, INCLUDING BUT NOT LIMITED TO: BRACKETS, A/V PLATES, BLANK COVER ASSEMBLIES, MOUNTING FRAMES, AND ADAPTERS. CONDUITS SHALL ROUTE CONCEALED INSIDE WALL [TO ABOVE FINISHED CEILING] [TO ABOVE FINISHED CORRIDOR CEILING] [TO NEAREST CORRIDOR CABLE TRAY] FOR INSTALLATION OF CATV AND NETWORK DATA CABLING. CONDUITS SHALL ROUTE CONCEALED INSIDE WALL TO LOCATION INDICATED BELOW FOR AUDIO/VISUAL CONNECTIONS. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT AND INTERIOR ELEVATIONS. SUBMIT PRODUCT DATA FOR APPROVAL.
		NO TYPE, CATV AND DATA TELEVISION OUTLET: PROVIDE ROUGH-IN PER COMMUNICATIONS OUTLET DETAIL. PROVIDE WITH FACEPLATE TO MATCH WIRING DEVICES. PROVIDE ONE (1) FEMALE TYPE F CONNECTOR AND ONE (1) RJ-45 DATA NETWORK JACK IN COMMON FACEPLATE. PROVIDE ONE (1) RG6 COAX CABLE AND ONE (1) NETWORK DATA CABLE. PROVIDE DUPLEX RECEPTACLE MOUNTED ADJACENT TO TELEVISION OUTLET PER PLANS. RECEPTACLE SHALL BE MOUNTED WITHIN

TYPE 'TV#', CATV AND DATA RECESSED WALL BOX:

NETWORK DATA CABLE.

PROVIDE ONE (1) RG6 COAX CABLE AND ONE (1) NETWORK DATA CABLE.

TYPE 'AV#', CATV, DATA, AND AUDIO/VISUAL ROUGH-IN RECESSED WALL BOX:

TYPE 'AV#', CATV, DATA, AND AUDIO/VISUAL RECESSED WALL BOX:

ELECTRICAL EQUIPMENT SYMBOL LEGEND						
AN SYMBOL	NAME	DESCRIPTION				
GENEF	RATOR DOCKING STATION	PROVIDE TRYSTAR, INC. [DUAL-PURPOSE GENERATOR/LOADBANK] [GENERATOR] DOCKING STATION (OR PRIOR APPROVED EQUIVALENT) WITH VOLTAGE AND CURRENT RATINGS TO MATCH GENERATOR OUTPUT CIRCUIT BREAKER. PROVIDE ENCLOSURE WITH NEMA 3R CONSTRUCTION. PROVIDE WITH [INTEGRAL CIRCUIT BREAKER SERVED FROM PERMANENT GENERATOR SOURCE] KIRK KEY INTERLOCKED WITH ACCESS DOOR PROTECTING PORTABLE GENERATOR MALE 16 SERIES PANEL MOUNTS (CAM-LOKS). [PROVIDE LOAD BANK FEMALE 16 SERIES PANEL MOUNTS (CAM-LOKS).] PROVIDE WITH THE FOLLOWING OPTIONS: 2 WIRE AUTO START, BATTERY CHARGER NEMA 5-20 GFCI RECEPTACLE, AND BLOCK HEATER NEMA L5-30 RECEPTACLE. PROVIDE SEPARATE ELECTRICAL CONNECTIONS FROM PANEL [LIFE SAFETY PANEL NAME], CIRCUITS [XX,XX] TO SERVE BATTERY CHARGER AND BLOCK HEATER RECEPTACLES. PROVIDE SIGN ON FRONT OF CABINET STATING THE FOLLOWING: MAXIMUM GENERATOR CIRCUIT BREAKER SIZE: [XX] AMPS [GENERATOR SYSTEM IS A SEPARATELY DERIVED SYSTEM. BOND GENERATOR NEUTRAL AND GROUND] IGENERATOR SYSTEM IS A NON-SEPARATELY DERIVED SYSTEM. DO NOT BOND GENERATOR NEUTRAL AND GROUND]				

COMMUNICATION SYMBOL LEGEND

(A1) - FULL KIT CATALOG # EZDP133CWK (1-3"x3" PATHWAY)

(A2) - FULL KIT CATALOG # EZDP233GK (2-3"x3" PATHWAYS)

(A3) - FULL KIT CATALOG # EZDP333GK (3-3"x3" PATHWAYS)

(À4) - FULL KIT CATALOG # EZDP433GK (À-3"x3" PATHWAYS)

(A7) - FULL KIT CATALOG # EZDP733GK (7-3"x3" PATHWAYS)

(B1) - FULL KÍT CATALOG # EZD22 (1-2"x2" PATHWAY)

(A#S) - CATALOG NO. RCM33 (C#S) - CATALOG NO. EZRCM44S

(A#E) - CATALOG NO. EZD33E

(C#E) - CATALOG NO. EZD44ES

QUANTITIES.

(C1) - FULL KIT CATALOG # EZDP44S2 (1-4"x4" PATHWAY)

COMMUNICATIONS FIRE RATED PROVIDE STI FIRESTOP EZ-PATH COMMUNICATIONS FIRE RATED PATHWAY AT LOCATIONS INDICATED ON

PATHWAY TYPE AND QUANTITIES. PROVIDE PATHWAY TYPES AS INDICATED BELOW.

(A8) - TWO (2) FULL KIT CATALOG # EZDP433GK (8-3"x3" PATHWAYS) (STACKED)

(C3) - THREE (3) CATALOG # EZD44S2 & ONE (1) EZP544W (3-4"x4" PATHWAYS)

PLYWOOD BACKBOARD PROVIDE 3/4" THICK X 4' WIDE X 8' HIGH A/C GRADE FIRE-RETARDANT TREATED PLYWOOD BACKBOARD AT

AFTER PAINTING. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

C2) - TWO (2) MODULE CATALOG # EZD44S2 & ONE (1) ÉZP544W (2-4"x4" PATHWAYS)

DESCRIPTION

CABLE TRAY, TELECOMMUNICATION RACK HEIGHTS, CEILING, AND OTHER TRADES. INSTALL PER MANUFACTURERS RECOMMENDATIONS. COORDINATE REQUIRED WALL OPENING WITH STUD SPACING. REFER TO FLOOR PLANS FOR

FLOORPLANS. MOUNT PATHWAYS ABOVE ACCESSIBLE CEILING SPACES. COORDINATE MOUNTING HEIGHT WITH

(C4) - FOUR (4) CATALOG # EZD44S2 & ONE (1) EZP544W (4-4"x4" PATHWAYS) (REQUIRES 16" STUD SPACING)

(C5) - FIVE (5) CATALOG # EZD44S2 & ONE (1) EZP544W (5-4"x4" PATHWAYS) (REQUIRES 24" STUD SPACING)

PROVIDE STI FIRESTOP EZ-PATH CABLE SPILLWAY AT LOCATIONS INDICATED ON FLOORPLANS WITH SUBSCRIPT PROVIDE ONE (1) SPILLWAY PER SLEEVE. REFER TO FLOORPLANS FOR SPILLWAY TYPE AND QUANTITIES.

PROVIDE STI FIRESTOP EZ-PATH EXTENSION MODULES AT LOCATIONS INDICATED ON PLANS WITH SUBSCRIPT 'E'.

APPROXIMATE LOCATION INDICATED. REFER TO FLOORPLANS FOR WIDTHS. CUT ADDITIONAL PLYWOOD TO FIT APPROXIMATE WIDTH INDICATED ON FLOORPLANS. MOUNT PLYWOOD VERTICALLY. BUTT ADJACENT SHEETS TIGHTLY, AND FORM SMOOTH GAP-FREE CORNERS AND JOINTS. PROVIDE WITH TWO (2) COATS OF WHITE PAINT

ON ALL FACES AND EDGES. PROVIDE WITH LABEL ON EACH SHEET OF PLYWOOD WITH FIRE RATINGS, VISIBLE

ONE (1) EXTENSION MODULES ON EACH END. REFER TO FLOORPLANS FOR EXTENSION MODULE TYPE AND

PROVIDE ONE (1) EXTENSION MODULE PER SLEEVE. WHERE PATHWAY IS INDICATED WITH SUBSCRIPT 'EE', PROVIDE

GROUND

NAME

PATHWAY – WALL

PLAN SYMBOL

2

D

 \frown

В

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3

		SECURITY SYMBOL LEGE
AN SYMBOL	NAME	D
AC	ACCESS CONTROL PANEL	CIRCUIT CONTROL PANEL TO 20A 120V BRANCH CIF ASSOCIATED CONSTRUCTION PHASE. REFER TO FL COORDINATE CONNECTION REQUIREMENTS WITH RECEPTACLE OR HARD-WIRED CONNECTION TO CA

	SECURITY SYMBOLS				
PI A		NAME			
	CR	ROUGH-IN ACCESS CONTROL CREDENTIAL CARD READER			
	KP AC	ROUGH-IN ACCESS CONTROL KEYPAD			
	HW	ROUGH-IN DOOR OPERATOR HAND WAVE ACTUATOR			
	MS VI	ROUGH-IN INTERCOM - VIDEO MASTER STATION			
	WS VI	ROUGH-IN INTERCOM - VIDEO WALL STATION			
	©	ROUGH-IN SECURITY SURVEILLANCE CAMERA - CEILING			
	Ç	ROUGH-IN SECURITY SURVEILLANCE CAMERA - WALL			

COMMUNICATION SYMBOLS				
PLAN SYMBOL	NAME			
S	ROUGH-IN CEILING SPEAKER			

DATA SYMBOLS					
PLAN SYMBOL	NAME				
WAP	ROUGH-IN WIRELESS ACCESS POINT - CEILING				

NURSE CALL SYMBOLS						
PLAN SYMBOL	NAME	DEFAULT MOUNTING HEIGHT	ROUGH-IN			
		48"				
CODE NC		10				
D	Rough-in dome - Ceiling	CEILING	COORDINATE			
D	ROUGH-IN DOME LIGHT - WALL	80"	COORDINATE			
TLT NC	ROUGH-IN TOILET STATION	36"	COORDINATE			

NURSE CALL SYMBOL LEGEND							
PLAN SYMBOL	NAME	DEFAULT MOUNTING HEIGHT	ROUGH-IN	DESCRIPTION			
	NURSE CALL CONTROL CABINET - SURFACE	48"		CIRCUIT CONTROL CABINET TO 20A 120V BRANCH CIRCUIT IN LOCAL [CRITICAL] [NORMAL] BRANCH PANEL OF THE ASSOCIATED CONSTRUCTION PHASE. REFER TO FLOOR PLANS FOR BRANCH CIRCUIT DESIGNATIONS. COORDINATE CONNECTION REQUIREMENTS WITH FINAL EQUIPMENT SELECTION AND PROVIDE NEMA 5-20 RECEPTACLE OR HARD-WIRED CONNECTION TO CABINET AS REQUIRED.			

PLATE TO MATCH WIRING NETWORK JACK IN COMMON BLE. PROVIDE DUPLEX

PROVIDE [FSR, INC. MODEL PWB-100-WHT] [WIREMOLD MODEL EFSB4] RECESSED WALL BOX (OR PRIOR APPROVED EQUIVALENT) AT APPROXIMATE LOCATION INDICATED. PROVIDE ONE (1) 1-1/4" CONDUIT FOR CATV AND NETWORK DATA CONNECTIONS. PROVIDE ONE (1) FEMALE TYPE F CONNECTOR AND ONE (1) RJ-45 DATA NETWORK JACK IN COMMON FACEPLATE. PROVIDE ONE (1) DUPLEX RECEPTACLE, MOUNTED WITHIN WALL BOX. PROVIDE ONE (1) 3/4" CONDUIT TO ELECTRICAL SOURCE FOR ONE (1) 20A 120V BRANCH CIRCUIT. REFER TO PLANS FOR BRANCH CIRCUIT.

PROVIDE WIREMOLD MODEL EFSB4 RECESSED WALL BOX (OR PRIOR APPROVED EQUIVALENT) AT APPROXIMATE LOCATION INDICATED. PROVIDE ONE (1) 2" CONDUIT FOR A/V CABLING, AND ONE (1) 1-1/4" CONDUIT FOR CATV AND NETWORK DATA CONNECTIONS. PROVIDE ONE (1) HDMI, ONE (1) 15 PIN VGA, AND ONE (1) 3.5MM AUDIO JACK FEMALE CONNECTORS IN COMMON FACEPLATE. PROVIDE ONE (1) FEMALE TYPE F CONNECTOR AND ONE (1) RJ-45 DATA NETWORK JACK IN COMMON FACEPLATE. PROVIDE ONE (1) DUPLEX RECEPTACLE, MOUNTED WITHIN WALL BOX. PROVIDE ONE (1) 3/4" CONDUIT TO ELECTRICAL SOURCE FOR ONE (1) 20A 120V BRANCH CIRCUIT. REFER TO PLANS FOR BRANCH CIRCUIT. PROVIDE ONE (1) HDMI AND ONE (1) VGA CABLE WITH AUDIO FROM JAUDIO/VISUAL INPUT] [FLOORBOX] [POKE THROUGH] WITHIN SAME SPACE. PROVIDE ONE (1) RG6 COAX CABLE AND ONE (1)

PROVIDE WIREMOLD MODEL EFSB4 RECESSED WALL BOX AT APPROXIMATE LOCATION INDICATED. PROVIDE ONE 2" CONDUIT WITH PULL CORD FOR OWNER PROVIDED AUDIO/VISUAL CABLING AND ONE (1) 1-1/4" CONDUIT FOR CATV AND NETWORK DATA CONNECTIONS. PROVIDE ONE (1) FEMALE TYPE F CONNECTOR AND ONE (1) RJ-45 DATA NETWORK JACK IN COMMON FACEPLATE. PROVIDE ONE (1) DUPLEX RECEPTACLE, MOUNTED WITHIN WALL BOX. PROVIDE ONE (1) 3/4" CONDUIT TO ELECTRICAL SOURCE FOR ONE (1) 20A 120V BRANCH CIRCUIT. REFER TO PLANS FOR BRANCH CIRCUIT. PROVIDE ONE (1) RG6 COAX CABLE AND ONE (1) NETWORK DATA CABLE.

END DESCRIPTION CIRCUIT IN LOCAL [EQUIPMENT] [NORMAL] BRANCH PANEL OF THE FLOOR PLANS FOR BRANCH CIRCUIT DESIGNATIONS. H FINAL EQUIPMENT SELECTION AND PROVIDE NEMA 5-20 CABINET AS REQUIRED.

ELECTRICAL EQUIPMENT SYMBOLS				
PLAN SYMBOL	NAME			
	AUTOMATIC TRANSFER SWITCH			
	ENCLOSED CIRCUIT BREAKER - SURFACE			
Ŋ	ENCLOSED DISCONNECT SWITCH - FUSED			
	GENERATOR			
	LOW VOLTAGE PANEL - RECESSED			
	PANELBOARD - ISOLATED POWER			
	PANELBOARD - SURFACE			
	SWITCHBOARD			
	TRANSFORMER - DRY TYPE			

ONE LINE SYMBOL					
PLAN SYMBOL	NAME				
•	AUTOMATIC TRANSFER SWITCH				
, 	CONTINUATION				
\sim					
DM}	DIGITAL METER				
	GENERATOR				
	GENERATOR CONNECTION BOX				
	GROUND BAR				
•••••	GROUNDING ELECTRODE				
	KEY INTERLOCK				
	PANEL BOARD				
	SURGE PROTECTIVE DEVICE				
SPD					
	SWITCHBOARD/SWITCHGEAR				
	TRANSFORMER				
M	UTILITY METER				

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EXTERIOR									
							BUG RATING		
	MINIMUM		INPUT			DISTRIBUTIO			
Т	CRI	VOLTAGE	WATTS	MOUNTING	REMARKS	N TYPE	В	U	G
)K	70	277 V	0	POLE	4				







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		4							5	
		4 <u>AUTOMATIC TRANSFER SWITCH SCHEDULE</u> <u>ASE OF POLES WIRES ISOLATION TYPE WCR WCR MODEL PRIORITY REMARKS</u> 3 3 4 Yes								
		AUI	OMATIC	I RANSFE	R SWITCH	1 SCHEDUL	-E			
AGE	PHASE	NUMBER OF POLES	NUMBER OF WIRES	BYPASS ISOLATION	TRANSITION TYPE	MIN. 3 CYCLE WCR	MIN. 30 CYCLE WCR	MODEL	PRIORITY	REMARKS
) V	3	3	4	Yes				-		
V C	3	3	4	Yes				-		
) V	3	3	4	Yes				-		

B. <u>"MIN 3 CYCLE WCR"</u> AND <u>"MIN 30 CYCLE WCR"</u> - VALUE INDICATED IS AVAILABLE SHORT CIRCUIT CURRENT (SCC) IN KILOAMPS AT THE EQUIPMENT BASED ON PRELIMINARY DESIGN PHASE CALCULATIONS. EQUIPMENT SCCR SHALL BE MINIMUM 120% OF THE AVAILABLE SCC AT THE DURATION INDICATED. RATING SHALL BE ADJUSTED IF REQUIRED

C. <u>"PRIORITY"</u> - GENERATOR LOADING AND ATS LOAD SHEDDING SHALL BE SETUP BASED ON THE FOLLOWING PRIORITY LEVELS WITH THE LOWEST NUMBER BEING THE FIRST LOAD STEP AND THE HIGHEST NUMBER BEING THE LAST LOAD STEP. QUANTITY OF LOAD STEPS SHALL BE MINIMUM REQUIRED FOR SYSTEM CONFIGURATION. ADDITIONAL LOAD

	FEEDE	R SCHEDULE - COPPER
FEEDER	NOMINAL SIZE	WIRE AND CONDUIT
5	50 A	3-#6 CU, #10 CU GND - 1" C.
5X	50 A	2-#6 CU, #10 CU GND - 3/4" C.
7	70 A	3-#4 CU, #8 CU GND - 1-1/4" C.
10	100 A	3-#1 CU, #8 CU GND - 1-1/2" C.
10N	100 A	4-#1 CU, #8 CU GND - 2" C.
12	125 A	3-#1/0 CU, #6 CU GND - 1-1/2" C.
15N	150 A	4-#2/0 CU, #6 CU GND - 2" C.
22	225 A	3-#4/0 CU, #4 CU GND - 2" C.
22N	225 A	4-250 KCMIL CU, #4 CU GND - 3" C.
30T	100 A	4-#1 CU, #6 CU GND - 2"C.
40N	400 A	4-#4/0 CU, #3 CU GND - 2-1/2" C. (2 SETS)
45T	150 A	4-#2/0 CU, #4 CU GND - 2"C.
60N	600 A	4-400 KCMIL CU, #1 CU GND - 3" C. (2 SETS)
75T	250 A	4-300 KCMIL CU, #2 CU GND - 3"C.
160SN	1600 A	4-500 KCMIL CU - 3-1/2" C. (5 SETS)
500T	1600 A	4-500 KCMIL CU, 350 KCMIL CU GND - 3-1/2"C. (5 SETS)

TYPICAL PANEL NAMING CONVENTION:

AREA/WING LETTER (OPTIONAL): A-X = AREAS/WINGS A, B, C, ETC. CEP = CENTRAL P	LANT
1-X = I E VEL S 1 2 3 ETC P = PENTHOUSE B =	= BASEMENT
BRANCH:	BROEMENT
N = NORMAL	
S = LIFE SAFETY C = CRITICAL	Q = EQUIPMENT
E = EMERGENCY O = OPTIONAL STANDBY	R = LEGALLY REQUIRED
VOLTAGE: H = 480Y/277V L = 208Y/120V	
HIERARCHY OF PANELS: 1, 2, 3 ETC.	
(SECTIONS A,B,C, ETC MAY OR MAY NOT BE NOTED)	
B2CL3	

ONE-LINE GENERAL NOTES: (GENERAL NOTES SHALL APPLY TO ALL ONE-LINE SHEETS)

A. MECHANICAL EQUIPMENT NOT SHOWN ON ONE-LINE. REFER TO PANEL SCHEDULES FOR COMPLETE LIST OF CIRCUIT BREAKER SIZES AND QUANTITIES REQUIRED.

SHEET NOTES:

- 1. PROVIDE GROUND-FAULT MONITOR WITH ASSOCIATED CURRENT TRANSFORMERS. MONITOR SHALL BE COMPATIBLE WITH THE POWER MONITORING SYSTEM. PROVIDE ALL REQUIRED WIRING DEVICES FOR INTERCONNECTION OF MONITOR WITH POWER MONITORING SYSTEM. THE MONITOR RESPONSE TIME AND DETECTION LEVEL SETTINGS SHALL BE DETERMINED BY THE POWER SYSTEM STUDY.
- 2. GROUND FAULT PROTECTION ALARM ONLY.
- 3. PROVIDE ISOLATION BYPASS WITH DELAYED TRANSITION AND IN PHASE MONITORING OPTION.
- 4. SETTING OF GROUND FAULT PROTECTION DEVICES SHALL BE PER POWER SYSTEM STUDY PERFORMED BY ELECTRICAL CONTRACTOR AND REVIEWED BY THE ELECTRICAL ENGINEER OF RECORD.
- 5. PROVIDE BONDING BETWEEN NORMAL AND CRITICAL POWER SERVING SAME PATIENT AREA.



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1. ELECTRICAL GROUND BAR. REFER TO SPECIFICATIONS FOR REQUIREMENTS. COMPONENTS. 3. BOND TO DRY-TYPE TRANSFORMERS ON ASSOCIATED FLOOR. REFER TO DRY-TYPE AND FLOORPLANS FOR TRANSFORMER SIZES AND LOCATIONS. 4. BOND TELECOMMUNICATIONS GROUNDING RISER TO ELECTRICAL GROUNDING RISER WITH #3/0 THIS LOCATION. FOR GROUND ROD REQUIREMENTS. 8. BOND TO WATER SERVICE ENTRANCE WITH #3/0 COPPER IN ONE (1) 1" CONDUIT. BOND SHALL BE ACROSS WATER METER. WITH #4 COPPER IN ONE (1) 3/4" CONDUIT. REFER TO SPECIFICATIONS FOR CONCRETE-ENCASED GROUNDING ELECTRODE REQUIREMENTS. 11. BOND TO BUILDING STEEL WITH #3/0 COPPER IN ONE (1) 1" CONDUIT. DISCONNECT WITH #3/0 COPPER. **GROUNDING SCHEMATIC GENERAL NOTES:** A. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. COMPONENTS. C. BOND TO ALL GROUNDING ELECTRODES PRESENT WITHIN BUILDING.

2. TELECOMMUNICATIONS GROUND BAR. REFER TO SPECIFICATIONS FOR REQUIREMENTS. REFER TO TELECOMMUNICATIONS ROUTING SCHEMATIC FOR BONDING TO TELECOMMUNICATIONS

TRANSFORMER GROUNDING DETAIL FOR CONDUCTOR SIZES. REFER TO ONE-LINE DIAGRAM

COPPER IN ONE (1) 1" CONDUIT. GROUNDING RISERS SHALL ONLY BE BONDED TOGETHER AT 5. BOND TELECOMMUNICATIONS GROUND BARS WITH #3/0 COPPER IN ONE (1) 1" CONDUIT. 6. BOND ELECTRICAL GROUND BARS WITH #3/0 COPPER IN ONE (1) 1" CONDUIT. 7. BOND TO GROUND ROD WITH #6 COPPER IN ONE (1) 3/4" CONDUIT. REFER TO SPECIFICATIONS

WITHIN 5 FEET OF WATER SERVICE ENTRANCE TO BUILDING. PROVIDE BONDING JUMPER 9. BOND TO UFER GROUND (CONCRETE-ENCASED GROUNDING ELECTRODE/BUILDING FOOTING)

10. BOND TO NORMAL MAIN SERVICE SWITCHBOARD GROUND BUS WITH #3/0 COPPER IN ONE (1) 1"

12. BOND TO GENERATOR GROUND BUS WITH #3/0 COPPER IN ONE (1) 1" CONDUIT. PROVIDE #2/0 BONDING JUMPER BETWEEN GROUND BUS AND NEUTRAL BUS AT GENERATOR. 13. MAIN BONDING JUMPER. BOND GROUND BUS AND NEUTRAL BUS AT NORMAL SERVICE MAIN 14. BOND TO GROUND RING WITH COPPER CONDUCTOR MATCHING GROUND RING CONDUCTOR

B. ELECTRICAL CONNECTIONS SHALL BE FIRMLY BONDED AT ALL TERMINATIONS. REFER TO SPECIFICATIONS FOR ACCEPTABLE CONNECTION TYPES FOR GROUNDING SYSTEM

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-BONDING

JUMPER

| MARKDESCRIPAHU-ORAIR HANDLER - RTUAHU-PACUAIR HANDLER - RTU

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 | | • |
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AHU-PACU AIR HANDLER - RTU

 | TION ROOM NAME | ROOM # | HP KW FLA M |
 | OLTS PHAS | E POLES | [VA] | TYPE | BY | TYPE | | FEEDER | | PANEL
 | NUMBER | | GEN
No
 |
| AP-1 MED GAS ALARM PANEL
AP-2 MED GAS ALARM PANEL

 | OR CHARGE + RAD TEC OR CHARGE + RAD TEC NURSE STATION | H 137
176 | |
 | | 1
1
1 | 0 0 0 0 | | ELECTRICAL
ELECTRICAL | HW
HW | | | |
 | | 0 0 0 0 | No
Yes
Yes
 |
| BP-1 PUMP - [DEFINE TYPE]
CH-1 CHILLER - SCROLL

 | DI WATER / BOILER /
VACUUM PUMP | 146 | |
 | | 1 | 0 | | | | | | |
 | | 0 | No
No
 |
| DI PUMP - DEIONIZED WAT

 | ER DI WATER / BOILER /
VACUUM PUMP | 146 | |
 | | 1 | 0 | | | | | | |
 | | 0 | No
No
 |
| EF-2 FAN EF-3 FAN EF-4 FAN EHB-1 BOILER - HOT WATER

 | | 146 | |
 | | 1
1
1
1 | 0 | | | | | | |
 | | 0 | No
No
No
 |
| IAC-1 COMPRESSOR - MEDIC/

 | AL AIR DI WATER / BOILER /
VACUUM PUMP
DI WATER / BOILER /
VACUUM PUMP | 146 | |
 | | 1 | 0 | | | | | | |
 | | 0 | No
 |
| MA-1 MED GAS MANIFOLD - M
MAP-1 MED GAS MASTER ALAF
MAP-2 MED GAS MASTER ALAF

 | IEDICAL AIR MED GAS RM PANEL CHECK-IN RM PANEL SUPERVISOR OFFICE | 148
105
164 | |
 | | 1
1
1 | 0 0 0 | | ELECTRICAL | HW
HW | | | |
 | | 0 0 0 | Yes
Yes
Yes
 |
| 02-1 MED GAS MANIFOLD - C
P-1 PUMP - IDEFINE TYPEI

 | JM DI WATER / BOILER /
VACUUM PUMP
IXYGEN MED GAS
DI WATER / BOILER / | 146
148
146 | |
 | | 1
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1 | 0 | | | | | | |
 | | 0 | No
Yes
No
 |
| P-2 PUMP - [DEFINE TYPE]

 | VACUUM PUMP
DI WATER / BOILER /
VACUUM PUMP | 146 | |
 | | 1 | 0 | | | | | | |
 | | 0 | No
 |
| P-3 POMP - [DEFINE TYPE] P-4 PUMP - [DEFINE TYPE] P-5 PUMP - [DEFINE TYPE]

 | VACUUM PUMP | 140 | |
 | | 1 | 0 | | | | | | |
 | | 0 | No
No
No
 |
| P-6 PUMP - [DEFINE TYPE]
P-7 PUMP - [DEFINE TYPE]
SSAH-146 SPLIT SYSTEM AIR HAN

 | DLER DI WATER / BOILER / | 146 | |
 | | 1
1
1 | 0
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0 | | | | | | |
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0
0 | No
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| SSAH-148 SPLIT SYSTEM AIR HAN
SSAH-151 SPLIT SYSTEM AIR HAN
SSAH-152 SPLIT SYSTEM AIR HAN

 | VACUUM PUMP
DLER MED GAS
DLER EMERGENCY ELECTRICA | 148
AL 151 | |
 | | 1 | 0 | | | | | | |
 | | 0 | No
No
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| SSAH-152 SPLIT SYSTEM AIR HANI
SSAH-160 SPLIT SYSTEM AIR HANI
SSCU-146 SPLIT SYSTEM CONDEN
SSCU-148 SPLIT SYSTEM CONDEN

 | DLER ELECTRICAL DLER IT ISING UNIT | 152 | |
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| SSCU-151 SPLIT SYSTEM CONDEN SSCU-152 SPLIT SYSTEM CONDEN SSCU-160 SPLIT SYSTEM CONDEN

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ISING UNIT | | |
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 | | 0 0 0 | No
No
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| WH-1 HOT WATER HEATER TA
WS-1 WATER SOFTENER

 | ANK - ELECTRIC DI WATER / BOILER /
VACUUM PUMP
DI WATER / BOILER / | 146
146 | |
 | | 1 | 0 | | | | | | |
 | | 0 | No
 |
| WS-1 WATER SOFTENER

 | DI WATER / BOILER /
VACUUM PUMP | 146 | 0 0 0 | 0
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COX "WALL SW" = CONTROL SIGN COORDINATE LOCATION "FA STOP" = FANS WITH CFM PROVIDE FIRE ALARM SY SINGLE DETECTOR CANN PROVIDE WITH INDIVIDUA "WF STOP" = HIGH VOLUME L CONNECT TO SHUT DOWN F/ "FA START" = FANS USED FOI FIRE ALARM SYSTEM SHA AT MOTOR CONTROLLER "DATA" = PROVIDE EMPTY "EPO" = PROVIDE EMPTY "EPO" = PROVIDE EMERGENCE <u>"IDISCONNECT BY"</u>: "MECHANICAL" = DISCONNECT "ELECTRICAL CONTRACTO "FA START" = FANS CONTROL 	ION TO CONDENSATE PUMP ASSOCIATED CONFIRM ELECTRICAL CONNECTION REQU DISCONNECT FROM SAME PANEL SERVING NECTION SCHEDULE) UNIQUE, VERIFY QUANTITY WITH FLOOR F CONNECTION REQUIREMENTS. NT CONNECTIONS FOR INTERNAL EQUIPME APPLICABLE TO THE CONNECTION. NTROL AND CONNECTIONS: JFACTURED INTEGRAL TO THE EQUIPMENT ATES CONTINUOUSLY (NO CONTROLS). FOI NUAL MOTOR STARTER. 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 Intornational contractors of circuit with toggle switch GENERAL NOTES: (EQUIPMENT CON A. EQUIPMENT LISTED MAY NOT BE BELOW FOR CLARIFICATIONS OF B. PROVIDE WIRING AND EQUIPMEI C. ITEMS NOTED AS "NA" ARE NOT. D. "CONTROL TYPE" - PROVIDE COI "INT" = CONTROL SARE MANI "CONT" = EQUIPMENT OPER' PROVIDE DAS PART OF A MA "DDC" = CONTROL SIGNAL FF "TIME SWI" = CONTROL SIGNAL FF "TIME SW" = CONTROL SIGNAL FF "WALL SW" = CONTROL SIGNAL FF "TIME SW" = CONTROL SIGNAL FF "WALL SW" = CONTROL SIGNAL FF "TIME SWITCH SHALL BE TARE SWITCH. CONTROL SIGNAL CONTROL SIGNAL FF "WALL SW" = CONTROL SIGNAL FF "WALL SW" = CONTROL SIGNAL CONTROL SIGNAL FF "WALL SW" = CONTROL SIGNAL CONTROL SIGNAL FF "WE STOP" = HIGH VOLUME L CONNECT TO SHUT DOWN F. 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				LUMINAIRE SCHEI	DULE						
MARK	DESCRIPTION	SUBS	MANUFACTURER	CATALOG # (NOTE A)	LAMP / NOMINAL LUMENS	ССТ	MINIMUM	VOLTAGE	INPUT WATTS	MOUNTING	REMARKS
A1	2'x2' ARCHITECTURAL TROFFER WITH SMOOTH LENS		DAY-BRITE	2-FGX-G-*940-2-FS-UNV-***		4000K	90	277 V	0	CEILING RECESSED	
A2	2'x2' ARCHITECTURAL TROFFER WITH SMOOTH LENS		DAY-BRITE	2-FGX-G-*940-2-FS-UNV-***		4000K	90	277 V	0	CEILING RECESSED	
A3	2'x4' ARCHITECTURAL TROFFER WITH SMOOTH LENS		DAY-BRITE	2-FGX-G-*940-4-FS-UNV-***		4000K	90	277 V	0	CEILING RECESSED	
B1	2'x2' FLAT PANEL		DAY-BRITE	2-FP7-*-940-2-DS-UN\/-***		4000K	90	277 V	0	CEILING RECESSED	
B2	2'x4' FLAT PANEL		DAY-BRITE	2-FP7-*-940-4-DS-UNV-***		4000K	90	277 V	0		
B3	2'x4' FLAT PANEL		DAY-BRITE	2-FP7-*-940-4-DS-UNV-***		4000K	90	277 V	0	CEILING RECESSED	
B4	2'x2' I ED STATIC TROFFER WET I OCATION		HE WILLIAMS	50-G-S-2-2-*-90-40-***-UNV		4000K	90	277 V	0	CEILING RECESSED	
B5	2'x4' LED STATIC TROFFER WET LOCATION		HE WILLIAMS	50-G-S-2-4-*-9-40-***-UNV		4000K	90	277 V	0	CEILING RECESSED	
 D1	2" DOWNLIGHT			C2R-DI -***-940-***		4000K	90	277 V	0	CEILING RECESSED	
D2	4" DOWNLIGHT		INTENSE LIGHTING	SD4DR-*-409-*-27-***		4000K	90	277 V	0	CEILING RECESSED	
D3	4.5" CLEANROOM MEDICAL DOWNLIGHT		HE WILLIAMS	HM4DR-*90-40-***		4000K	90	277 V	0	CEILING RECESSED	
D4	6" DOWNLIGHT		INTENSE LIGHTING	SD6DR-*-409 D101-27-***-IC630-***		4000K	90	277 V	0	CEILING RECESSED	
D5	6" LENSED DOWNLIGHT WET LOCATION		INTENSE LIGHTING	SD6DR-*-409-D101-27-***-IC632-***		4000K	90	277 V	0	CEILING RECESSED	
D6	6" DOWNLIGHT		INTENSE LIGHTING	SD6DR-*-409 D101-27-***-IC630-***		4000K	90	277 V	0	CEILING RECESSED	
H1	2'x4' SURGICAL LED TROFFER		L.C. DOANE COMPANY	HRA-LED		4000K	90	277 V	0	CEILING RECESSED	
K1	4' LENSED STRIP		DAY-BRITE	FSX-4-*-940-UNV-***		4000K	90	277 V	0	CEILING SUSPENDED	3
P1	SQUARE ACOUSTIC PANEL		AXIS	STENCILFLEX		4000K	90	277 V	0	PENDANT	3
P2	60 DEGREE TRIANGULAR ACOUSTIC PANEL		AXIS	STENCILFLEX		4000K	90	277 V	0	PENDANT	3
P3	60 DEGREE TRIANGULAR ACOUSTIC PANEL		AXIS	STENCILFLEX		4000K	90	277 V	0	PENDANT	3
S1	SINGLE HEAD POLE		GARDCO OPTIFORM	OPF-M		4000K	70	277 V	0	POLE	4
SR1	RECESSED WALL WASHER		FINELITE	HP-2-R-WW-D-5-S-940-***-277-SC-****		4000K	90	277 V	0	CEILING RECESSED	5
V1	2' VANITY LIGHT		SCOTT ARCHITECTURAL LIGHTING	S3720		4000K	90	277 V	0	WALL SURFACE	2
W1	EXTERIOR WALL SCONCE		GARDCO PUREFORM	PWS				277 V	0	WALL SURFACE	2
X1	EDGE-LIT EXIT SIGN. SINGLE FACE. CHEVRONS AS INDICATED.		BEGHELLI	OL2	LED	-	-	277 V	0	SURFACE/RECESSED	1
X2	EDGE-LIT EXIT SIGN. DOUBLE FACE. CHEVRONS AS INDICATED.		BEGHELLI	OL2	LED	-	-	277 V	0	SURFACE/RECESSED	1
X3	EDGE-LIT EXIT SIGN. SINGLE FACE. CHEVRONS AS INDICATED.		BEGHELLI	OL2	LED	-	-	277 V	0	WALL SURFACE	1

RE	MARKS: (LIGHTING FIXTURE SCHEDULE)
1.	EXIT SIGNS - REFER TO ELECTRICAL PL
2.	WALL MOUNTING - COORDINATE EXAC
	AND BOX SUPPORTS PRIOR TO ROUGH
	FINAL ARCHITECTURAL FINISHES.
3.	PENDANT/SUSPENSION MOUNTING - C
	PENDANT/SUSPENSION LENGTH WITH
4.	25' POLE MOUNT - PROVIDE 25', [STEEL
	WITH PAINT OVER [PRIMER][GALVINIZE
5	GYP CEILING MOUNTING - PROVIDE WI

3

	LIGHT	ING CO	NTROL	SEQUE	NCE OF (OPERATIO	DNS		
		OCCUF SEN	PANCY SOR						
			TIME	AUTO ON	AUTO OFF		RECEPTACLE	SCHEDULE	
TAG	SPACE TYPE	TYPE	DELAY	%	%	NETWORK	CONTROL	CONTROL	REMARKS
CORR	CORRIDOR/VESTIBULE	IR-L	20 / 5	100 / 50	20 / 0	Y	N	1	
EXT	EXTERIOR/SITE	Ν	-	100/30/*	*/*/0	Y	-	2	NOTE X
FF20	FINE MOTION - FULL AUTO ON - 20 MINUTE	DT-F	20	100	0	Y	N	-	
FP20	FINE MOTION - PARTIAL AUTO ON - 20 MINUTE	DT-F	20	50	0	Y	N	-	
FP20R	FINE MOTION - PARTIAL AUTO ON - 20 MINUTE	DT-F	20	50	0	Y	Y	-	
LM5	LARGE MOTION - MANUAL ON - 5 MINUTE	DT-L	5	М	0	Y	N	-	
MEP	MECHANICAL/ ELECTRICAL	Ν	-	-	-	Y	N	-	NOTE 1
PAT	PATIENT CARE	DT-F	20	100	0	Y	N	-	
PRO	PROCEDURE	Ν	-	-	-	Y	N	-	NOTE 1
PRST	RESTROOM - MULTI OCCUPANT	DT-L	15	100	0	Y	N	-	
SRST	RESTROOM - SINGLE OCCUPANT	IR-F	5	100	0	Y	N	-	

REMARKS: (LIGHTING CONTROL SEQUENCE OF OPERATIONS) 1. NO AUTOMATIC CONTROLS WITHIN THIS SPACE. SPACE TYPE.

3

RICAL PLANS FOR DIRECTION INDICATORS AND MOUNTING TYPE. E EXACT LOCATION WITH ARCHITECT AND ARCHITECTURAL DETAILS. COORDINATE FRAMING ROUGH-IN FOR EXACT PLACEMENT OF BOX TO ACHIEVE CENTERING AND ALIGNMENT WITH TING - COORDINATE EXACT LOCATION, MOUNTING ELEVATION, AND REQUIRED H WITH ARCHITECT AND ARCHITECTURAL DETAILS.

, [STEEL][ALUMINUM], [STRAIGHT][TAPERED], [ROUND][SQUARE WITH VIBRATION DAMPER] POLE LVINIZED] FINISH TO MATCH FIXTURE. PROVIDE 4' POLE BASE PER DETAIL [###] ON SHEET [###]. 5. GYP CEILING MOUNTING - PROVIDE WITH MANUFACTURER'S FLANGE MOUNTING KIT/ACCESSORY(S) TO ALLOW FOR RECESSED MOUNTING OF LUMINAIRE WITHIN GYP CEILING.

<u>GENERAL NOTES: (LIGHTING FIXTURE SCHEDULE)</u> A. CATALOG NUMBER VERIFICATION - CONTRACTOR SHALL VERIFY LIGHTING FIXTURE INSTALLATION REQUIREMENTS AND CATALOG NUMBER PRIOR TO ORDERING. B. SUBSTITUTIONS - WHERE INDICATED WITH 'N' (NO), NO SUBSTITUTIONS WILL BE ACCEPTED. WHERE INDICATED WITH 'P' (PRIOR APPROVAL), SUBSTITUTIONS MUST BE APPROVED PRIOR TO BID WITH ACCEPTANCE ISSUED BY ADDENDUM. WHERE INDICATED WITH 'Y' (YES), THE FOLLOWING MANUFACTURER'S ARE CONSIDERED ACCEPTABLE EQUIVALENT MANUFACTURER'S, PROVIDED THE EQUIVALENT FIXTURE IS OF THE SAME QUALITY, EFFICIENCY, PERFORMANCE AND CHARACTERISTICS AS THAT SCHEDULED: 1. ACUITY BRANDS 2. EATON/COOPER BRANDS 3. HUBBELL 4. WILLIAMS

5

- 5. PHILLIPS/SIGNIFY BRANDS C. DOWNLIGHT - PROVIDE DOWNLIGHT REFLECTOR FINISH/COLOR AS SPECIFIED IN THE LIGHTING FIXTURE SCHEDULE. SELECT CEILING TRIM FINISH/COLOR TO COORDINATE WITH CEILING TYPE. "WHITE" TRIM FOR DOWNLIGHTS MOUNTED IN WHITE ACOUSTICAL TILE CEILINGS. "CLEAR" (TO MATCH REFLECTOR FINISH/COLOR) FOR DOWNLIGHTS MOUNTED IN PAINTED GYPSUM BOARD CEILINGS. D. COVE – DRAWINGS PROVIDE GENERAL ILLUSTRATION OF COVE LAYOUT. COORDINATE EXACT UNIT LENGTHS AND QUANTITIES WITH ARCHITECTURAL DETAILS TO PROVIDE CONTINUOUS ILLUMINATION FOR ENTIRE LENGTH OF COVE. LED COVE LIGHTING FIXTURES SHALL BE INSTALLED END-TO-END (NO GAP BETWEEN FIXTURES) WITH A MAXIMUM 6"
- GAP AT COVE ENDS AND CORNERS. SELECT UNIT LENGTHS AND QUANTITIES TO ACHIEVE THE ABOVE REQUIRED PERFORMANCE (SHORTER UNIT LENGTHS IN GREATER QUANTITIES MAY BE REQUIRED). E. TRACK – PROVIDE SINGLE-CIRCUIT TRACK SYSTEM WITH ALL NECESSARY COMPONENTS FOR A COMPLETE INSTALLATION, INCLUDING, BUT NOT LIMITED TO: POWER FEEDS, STAND OFFS, CONNECTORS, END CAPS, AND TRANSFORMERS. TRACK AND ACCESSORY FINISH SHALL MATCH FINISH OF SPECIFIED TRACK HEAD. PROVIDE TRACK LENGTHS AND TRACK HEAD QUANTITIES PER PLANS. COORDINATE TRACK TYPE FOR COMPATIBILITY WITH SPECIFIED TRACK HEAD FIXTURE. PROVIDE REMOTE TRANSFORMER QUANTITIES AND SIZES TO ACCOMMODATE LOAD OF TRACK
- HEADS INDICATED. PROVIDE POWER FEEDS AND TRACK CONNECTORS AS NEEDED TO PROVIDE TRACK LENGTH INDICATED. MOUNT REMOTE TRANSFORMER ABOVE NEAREST ACCESSIBLE CEILING. COORDINATE LENGTH OF STANDOFFS AND POWER FEEDS AND EXACT SHAPE OF CURVED TRACKS WITH ARCHITECT. F. UNDERCABINET- PROVIDE ALL NECESSARY MANUFACTURER'S INSTALLATION ACCESSORIES TO ACCOMMODATE INSTALLATION, INCLUDING, BUT NOT LIMITED TO: SPLICE BOXES, END CONNECTORS, AND JUMPER/DAISY CHAIN
- CONNECTORS. G. FIXTURE FINISH - WHERE CATALOG NUMBER LISTED INDICATES '**' IN LIEU OF MANUFACTURER'S FINISH OPTION, COORDINATE WITH ARCHITECT FOR EXACT FINISH PRIOR TO ORDERING.
- H. WALL-TO-WALL MOUNTING PROVIDE FIXTURE WITH CONTINUOUS ILLUMINATION FROM WALL TO WALL. COORDINATE EXACT WALL DIMENSIONS WITH GENERAL CONTRACTOR AND ARCHITECTURAL DETAILS. PROVIDE MANUFACTURER'S WALL-TO-WALL MOUNTING ACCESSORY(S) AS REQUIRED FOR A COMPLETE INSTALLATION.

LIGHTING CONTROL SEQUENCE OF OPERATIONS GUIDE: - TAGS WILL RANGE FROM 3 CHARACTERS (<10 MINUTE DELAY, NO SPECIAL OPTIONS) TO 5 CHARACTERS (UP TO 20 MINUTE DELAY + SPECIAL):

	F - FINE MOTION L - LARGE MOTION
	A - AUTO ON TO 100% P - PARTIAL AUTO ON M - MANUAL ON
	# - OCC. SENSOR DELAY (MINUTES)
	- NO SPECIAL T - TASK TUNING W - WHITE TUNING

G - GERMICIDAL C - CIRCADIAN LIGHTING

2. PROVIDE ALL NECESSARY PARTS AND ACCESSORIES TO MEET THE 'OCCUPANT SENSOR CONTROL FUNCTION IN OPEN PLAN OFFICE AREAS' REQUIREMENTS SET FORTH IN IECC 2018 – C405.2.1.3. CONTROL ZONES AND REQUIRED DAYLIGHT HARVESTING ZONES ARE INDICATED ON PLAN. LUMINAIRE LEVEL LIGHTING CONTROLS ARE ACCEPTABLE IN THIS

A. WHERE MULTIPLE CONTROL ZONES ARE INDICATED WITHIN A SPACE, THE 'AUTO ON' AND 'AUTO OFF' FUNCTIONS SHALL INCLUDE ALL CONTROL ZONES WITHIN THE SPACE B. DAYLIGHT HARVESTING - REFER TO LIGHTING CONTROL PLAN FOR DAYLIGHT ZONES REQUIRING PHOTOCELL CONTROL AND THEIR ASSOCIATED LIGHTING SET POINTS. TARGET ILLUMINANCE LEVELS SHALL BE MEASURED AT THE WORK PLANE OF THE PRIMARY TASK WITHIN THE SPACE. C. OCCUPANCY SENSOR - PROVIDE OCCUPANCY SENSOR TYPE AS INDICATED BELOW. OCCUPANCY SENSORS SHALL BE CEILING MOUNTED[.] [UNLESS SPECIFICALLY INDICATED OTHERWISE. REFER TO LIGHTING CONTROL WALL DEVICE SCHEDULE FOR WALL MOUNTED OCCUPANCY SENSOR SWITCHES.]

D. AUTO ON % - WHEN OCCUPANCY IS DETECTED WITHIN SPACE, ROOM LIGHTING SHALL BE TURNED ON TO SPECIFIED LIGHT LEVEL. WHERE INDICATED WITH 'M', ROOM SHALL BE E. AUTO OFF % - WHEN SPECIFIED SENSOR TIME DELAY IS REACHED, ROOM LIGHTING SHALL BE REDUCED TO SPECIFIED LIGHT LEVEL. WHERE INDICATED AS ZERO PERCENT,

G. RECEPTACLE CONTROL – OCCUPANCY SENSOR CONTROL OF SELECTED ROOM RECEPTACLES:

1. Y = OCCUPANCY SENSOR SHALL SWITCH OFF INDICATED RECEPTACLES 20 MINUTES AFTER ALL OCCUPANTS HAVE VACATED SPACE

H. SCHEDULE CONTROL - NORMAL BUSINESS HOURS SHALL BE CONSIDERED 9:00 AM TO 4:00 PM. COORDINATE EXACT BUSINESS HOURS WITH BUILDING OWNER DURING 1. WHERE THE SEQUENCE INDICATES MULTIPLE SET POINT VALUES (TIME DELAY, AUTO ON %, AUTO OFF %), EACH VALUE SHALL BE THE SET POINT AT THE CORRESPONDING SCHEDULED TIMES INDICATED BELOW. FOR EXAMPLE, A TIME DELAY INDICATED AS 20 / 5 WITH A CORRESPONDING SCHEDULE OF 8:00 AM TO 5:00 PM / 5:00 PM TO 8:00 AM SHALL REQUIRE A 20 MINUTE DELAY FROM 8:00 AM TO 5:00 PM AND A 5 MINUTE DELAY FROM 5:00 PM TO 8:00 AM. SCHEDULE 'A' - 7:30 AM TO 5:30 PM / 5:30 PM TO 7:30 AM

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SES PROJECT # 22354

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	1		2
	GENERATOR		
	LOCATION: SUPPLY FROM:	VOLTS: 480/277 WYE PHASES: 3 WIDES: 4	MAINS TYPE: MCB/MLO RATING: 400 A MCB OPTIONS:
	SERVICE RATED:	INTEGRAL SPD: LABLE SCC (kA):	SECTIONS:
	CKT CIRCUIT DESCRIPTION OPT F 1 ESB	POLESRATINGLOADCIRC3600 A1000 VA	UIT REMARKS
	2 3 4 5		
C	5 6 7		
	8 9 10		
		Total VA: 1000 VA Total A: 1 A	
	LOAD CLASSIFICATION CONNECTED LOAD DEM/ PWR-NC 1000 VA	AND FACTORESTIMATED DEMAND100.00%1000 VA	PANEL TOTALS CONNECTED LOAD: 1000 VA CONNECTED CURRENT: 1 A
			DEMAND LOAD: 1000 VA DEMAND CURRENT: 1 A CONSIDER 125% DEMAND: 1250 A
			EQUIPMENT AMPS: 400 A SPARE CAPACITY: 99 399 A 399 A
	OPTIONS: CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUN PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING N BREAKER WITH LOCKING PROVISIONS GENERAL REMARKS: A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120%	NT TRIP CIRCUIT BREAKER / 'G' OR 'G MAINTENANCE SWITCH / 'ZSI' - ZONE SE OF THE AVAILABLE SCC (SHORT CIRC	GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - ELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT UIT CURRENT).
;	PANEL: 1EQH1 LOCATION: EMERGENCY ELECTRICAL SUPPLY FROM: ATS-EQ BRANCH: EQUIPMENT SERVICE RATED:	VOLTS: 480/277 WYE PHASES: 3 WIRES: 4 INTEGRAL SPD: No	MAINS TYPE: MCB MCB/MLO RATING: 400 A MCB OPTIONS: SECTIONS: 1
	MOUNTING: SURFACE NEMA ENCLOSURE: NEMA 1	AVAILABLE SCC (kA):	PANEL POLES: 42
	CKTCIRCUIT DESCRIPTIONOPTRATINGPOLES1370 A3	A B VA 0 VA	C POLES RATING OPT CIRCUIT DESCRIPTION
	5	0 VA	
	11		
_	17		
	23		
	29		
	35		
	41 TOTAL LOAD: TOTAL AMPS:	0 VA 0 VA 0 A	0 VA 0 A
	LOAD CLASSIFICATION CONNECTED	DLOAD DEMAND FACTOR ESTIMA	TED DEMAND PANEL TOTALS CONNECTED LOAD: 0 VA
			CONNECTED CURRENT: 0 A DEMAND LOAD: 0 VA DEMAND CURRENT: 0 A CONSIDER 125% DEMAND: 0 A EQUIPMENT AMPS: 400 A FEEDER AVAILABLE: 100 % SPARE CAPACITY: 100 % 400 A 100 %
	OPTIONS: CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUP		
	- PROVIDE CIRCUIT BREAKER WITH RED MARKING GENERAL REMARKS:		
	A. PANEL AIC (INTERIOF TING) NATING SHAEL DE MINIMUM 120%		UT CORRENT).
N			

BRANCH: LIFE SAF ERVICE RATED: No	ETY				. 0		NICE/INICO RATING. 400 A			
	WIRES: 4 INTEGRAL SPD: Yes AVAILABLE SCC (kA):				SECTIONS:					
	DESCRIPTION	OPT	POLES	RATING	LOAD	CIRCU				
1 ATS-C		L	3	225 A	0 VA	+				
2 ATS-LS		L	3	100 A	1000 VA					
3 ATS-EQ		L	3	400 A	0 VA					
4			!	<u> </u>		_				
5			!	<u> </u>		<u> </u>				
6			!	<u> </u>		<u> </u>				
7			_ _ !	<u> </u>						
8										
9				 						
10										
OAD CLASSIFICATION	CONNECTED LOAD	DE	MAND FA	ACTOR	ESTIMATED DE	MAND	PANEL T	OTALS		
WR-NC	1000 VA		100.00%	%	1000 VA		CONNECTED LOAD:	1000 VA		
							CONNECTED CURRENT:	1 A		
							DEMAND LOAD:	1000 VA		
							DEMAND CURRENT:	1 A		
							CONSIDER 125% DEMAND:	1250 A		
							EQUIPMENT AMPS:	400 A		
		<u> </u>					SPARE CAPACITY:	99		
		<u> </u>						399 A		
					L					
					·					

3

A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

	LOCATION SUPPLY FROM BRANCH SERVICE RATED MOUNTING NEMA ENCLOSURE	GENCY EL .1 MENT .CE 1	-ECTRICA	AVAIL	۱ PH N INTEGRA ABLE SC	/OLTS: 208/ HASES: 3 MIRES: 4 IL SPD: No IC (KA):	120 WYE	MAINS TYPE: MCB MCB/MLO RATING: 150 A MCB OPTIONS: SECTIONS: 1 PANEL POLES: 42					
СКТ	CIRCUIT DESCRIPTION	OPT	RATING	POLES	Α		В	С	POLES	RATING	OPT	CIR	
1									_				
3													
5													
/													
9													
13													
15													
17													
19				+ +									
21													
23													
25													
27													
29													
31													
33													
35													
37													
39													
41													
			TOTAL	L LOAD: L AMPS:	0 VA 0 A		0 VA 0 A	0 VA 0 A					
LOAD	CLASSIFICATION			CONNEC ⁻		DEMAN					F	PANEL 1	TOTALS
_				_						CON	NECTED	LOAD:	0 VA
										CONNEC	TED CUR	RENT:	0 A
										0	DEMAND	LOAD:	0 VA
										DEM	AND CUF	RENT:	0 A
									CC	NSIDER	125% DE	MAND:	0 A
										EQU	IPMENT	AMPS:	150 A
										FEEDE	ER AVAIL	ABLE:	
										SPA	ARE CAP		100 %
										0.7		///////	150 A
OPTIC	DNS:												
	JIT BREAKER OPTIONS SUFFI KER / 'ERMS' - ENERGY REDU VIDE CIRCUIT BREAKER WITH	X: 'S' OF CING MA RED MA	R 'ST' - PR INTENAN RKING	OVIDE SH CE SWITC	HUNT TRIP (CH / 'ZSI' - Z(CIRCUIT E	BREAKER / ECTIVE INTE	'G' OR 'GFCI' - PRO RLOCKING / 'L' - F	VIDE GFO PROVIDE	CI CIRCUI CIRCUIT I	T BREAK BREAKEI	(ER / ' R WITH	GFP' - PROVID LOCKING PRO

4

MSB								
LOCATION: ELECTRIC	AL 152							
SUPPLY FROM:			PHASES:	3		MCB/MLO RATING: 1600 A	۱.	
BRANCH: NORMAL				WIRES:	4		MCB OPTIONS:	
ERVICE RATED: Yes			INTEG	RAL SPD:	Yes		SECTIONS:	
		AVA	ILABLE	SCC (kA):				
KT CIRCUIT DE	SCRIPTION	OPT	POLES	RATING	LOAD	CIRCU	IT REMARKS	
1 1NH1			3	400 A	0 VA			
2 ATS-C		L	3	225 A	0 VA			
3 ATS-LS		L	3	100 A	1000 VA			
4 ATS-EQ		L	3	400 A	0 VA			
5								
6								
7								
8								
9								
10								
				Total VA:	1000 VA			
				Total A:	1 A			
OAD CLASSIFICATION	CONNECTED LOAD	DEN	MAND FA	CTOR	ESTIMATED DEI	MAND	PANEL T	OTALS
OAD CLASSIFICATION WR-NC	CONNECTED LOAD	DEN	MAND FA 100.00%	CTOR	ESTIMATED DEI 1000 VA	MAND	PANEL T CONNECTED LOAD:	OTALS 1000 VA
OAD CLASSIFICATION WR-NC	CONNECTED LOAD	DEN	MAND FA 100.009	CTOR	E STIMATED DE I 1000 VA	MAND	PANEL T CONNECTED LOAD: CONNECTED CURRENT:	OTALS 1000 VA 1 A
OAD CLASSIFICATION WR-NC	CONNECTED LOAD	DEN	MAND FA 100.009	CTOR	ESTIMATED DE 1000 VA	MAND	PANEL T CONNECTED LOAD: CONNECTED CURRENT: DEMAND LOAD:	OTALS 1000 VA 1 A 1000 VA
OAD CLASSIFICATION WR-NC	CONNECTED LOAD		MAND FA 100.009	CTOR	E STIMATED DEI 1000 VA	MAND	PANEL T CONNECTED LOAD: CONNECTED CURRENT: DEMAND LOAD: DEMAND CURRENT:	OTALS 1000 VA 1 A 1000 VA 1 A
OAD CLASSIFICATION WR-NC	CONNECTED LOAD	DEN	//AND FA 100.009	ACTOR	ESTIMATED DEI 1000 VA	MAND	PANEL T CONNECTED LOAD: CONNECTED CURRENT: DEMAND LOAD: DEMAND CURRENT: CONSIDER 125% DEMAND:	OTALS 1000 VA 1 A 1000 VA 1 A 1250 A
OAD CLASSIFICATION WR-NC	CONNECTED LOAD		MAND FA 100.009	ACTOR %	ESTIMATED DEI 1000 VA	MAND	PANEL T CONNECTED LOAD: CONNECTED CURRENT: DEMAND LOAD: DEMAND CURRENT: CONSIDER 125% DEMAND: EQUIPMENT AMPS:	OTALS 1000 VA 1 A 1000 VA 1 A 1250 A 1600 A
OAD CLASSIFICATION WR-NC	CONNECTED LOAD		MAND FA 100.009	CTOR %	ESTIMATED DEI 1000 VA	MAND	PANEL T CONNECTED LOAD: CONNECTED CURRENT: DEMAND LOAD: DEMAND CURRENT: CONSIDER 125% DEMAND: EQUIPMENT AMPS:	OTALS 1000 VA 1 A 1000 VA 1 A 1250 A 1600 A 99
OAD CLASSIFICATION WR-NC	CONNECTED LOAD 1000 VA		MAND FA 100.009	CTOR	ESTIMATED DEI 1000 VA	MAND	PANEL T CONNECTED LOAD: CONNECTED CURRENT: DEMAND LOAD: DEMAND CURRENT: CONSIDER 125% DEMAND: EQUIPMENT AMPS: SPARE CAPACITY:	OTALS 1000 VA 1 A 1000 VA 1 A 1250 A 1600 A 99 1599 A
OAD CLASSIFICATION WR-NC	CONNECTED LOAD 1000 VA		MAND FA 100.009	ACTOR %	ESTIMATED DEI 1000 VA	MAND	PANEL T CONNECTED LOAD: CONNECTED CURRENT: DEMAND LOAD: DEMAND CURRENT: CONSIDER 125% DEMAND: EQUIPMENT AMPS: SPARE CAPACITY:	OTALS 1000 VA 1 A 1000 VA 1 A 1250 A 1600 A 99 1599 A
OAD CLASSIFICATION WR-NC	CONNECTED LOAD 1000 VA		MAND FA 100.009	CTOR	ESTIMATED DEI 1000 VA	MAND	PANEL T CONNECTED LOAD: CONNECTED CURRENT: DEMAND LOAD: DEMAND CURRENT: CONSIDER 125% DEMAND: EQUIPMENT AMPS: SPARE CAPACITY:	OTALS 1000 VA 1 A 1000 VA 1 A 1250 A 1600 A 99 1599 A
OAD CLASSIFICATION WR-NC	CONNECTED LOAD 1000 VA		MAND FA 100.009	CTOR	ESTIMATED DEI 1000 VA	MAND	PANEL T CONNECTED LOAD: CONNECTED CURRENT: DEMAND LOAD: DEMAND CURRENT: CONSIDER 125% DEMAND: EQUIPMENT AMPS: SPARE CAPACITY:	OTALS 1000 VA 1 A 1000 VA 1 A 1250 A 1600 A 99 1599 A
OAD CLASSIFICATION WR-NC	CONNECTED LOAD 1000 VA		MAND FA 100.009	ACTOR %	ESTIMATED DEI 1000 VA	MAND	PANEL T CONNECTED LOAD: CONNECTED CURRENT: DEMAND LOAD: DEMAND CURRENT: CONSIDER 125% DEMAND: EQUIPMENT AMPS: SPARE CAPACITY:	OTALS 1000 VA 1 A 1000 VA 1 A 1250 A 1600 A 99 1599 A
OAD CLASSIFICATION WR-NC	CONNECTED LOAD 1000 VA		MAND FA 100.009	CTOR	ESTIMATED DEI 1000 VA	MAND	PANEL T CONNECTED LOAD: CONNECTED CURRENT: DEMAND LOAD: DEMAND CURRENT: CONSIDER 125% DEMAND: EQUIPMENT AMPS: SPARE CAPACITY:	OTALS 1000 VA 1 A 1000 VA 1 A 1250 A 1600 A 99 1599 A
OAD CLASSIFICATION WR-NC	CONNECTED LOAD 1000 VA		MAND FA 100.009	CTOR	ESTIMATED DEI 1000 VA	MAND	PANEL T CONNECTED LOAD: CONNECTED CURRENT: DEMAND LOAD: DEMAND CURRENT: CONSIDER 125% DEMAND: EQUIPMENT AMPS: SPARE CAPACITY:	OTALS 1000 VA 1 A 1000 VA 1 A 1250 A 1600 A 99 1599 A
OAD CLASSIFICATION WR-NC	CONNECTED LOAD 1000 VA		MAND FA 100.009	CTOR	ESTIMATED DEI 1000 VA	MAND	PANEL T CONNECTED LOAD: CONNECTED CURRENT: DEMAND LOAD: DEMAND CURRENT: CONSIDER 125% DEMAND: EQUIPMENT AMPS: SPARE CAPACITY:	OTALS 1000 VA 1 A 1000 VA 1 A 1250 A 1600 A 99 1599 A
OAD CLASSIFICATION WR-NC	CONNECTED LOAD 1000 VA		MAND FA 100.009	CTOR	ESTIMATED DEI 1000 VA	MAND	PANEL T CONNECTED LOAD: CONNECTED CURRENT: DEMAND LOAD: DEMAND CURRENT: CONSIDER 125% DEMAND: EQUIPMENT AMPS: SPARE CAPACITY:	OTALS 1000 VA 1 A 1000 VA 1 A 1250 A 1600 A 99 1599 A
OAD CLASSIFICATION WR-NC	CONNECTED LOAD 1000 VA 1000 VA				BREAKER / 'G'	MAND	PANEL T CONNECTED LOAD: CONNECTED CURRENT: DEMAND LOAD: DEMAND CURRENT: CONSIDER 125% DEMAND: EQUIPMENT AMPS: SPARE CAPACITY:	OTALS 1000 VA 1 A 1000 VA 1 A 1000 VA 1 A 1250 A 1600 A 99 1599 A
PTIONS: RCUIT BREAKER OPTIONS ROVIDE GFP CIRCUIT BREA REAKER WITH LOCKING PR	CONNECTED LOAD 1000 VA 1000 VA		JNT TRIP	CTOR	BREAKER / 'G'	MAND	PANEL T CONNECTED LOAD: CONNECTED CURRENT: DEMAND LOAD: DEMAND CURRENT: CONSIDER 125% DEMAND: EQUIPMENT AMPS: SPARE CAPACITY:	OTALS 1000 VA 1 A 1000 VA 1 A 1250 A 1600 A 99 1599 A BREAKER / 'GFP'- - PROVIDE CIRCUIT

5

A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

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	1	2	3	
	PANEL: 1LSH1 LOCATION: EMERGENCY ELECTRICAL VOLTS: 480/277 WYE SUPPLY FROM: ATS-LS PHASES: 3 BRANCH: LIFE SAFETY WIRES: 4 SERVICE RATED: INTEGRAL SPD: Yes MOUNTING: SURFACE AVAILABLE SCC (kA): NEMA ENCLOSURE: NEMA 1 DET.	MAINS TYPE: MCB MCB/MLO RATING: 100 A MCB OPTIONS: SECTIONS: 1 PANEL POLES: 42	PANEL: 1LSL1 VOLTS: 208/120 WYE LOCATION: EMERGENCY ELECTRICAL VOLTS: 208/120 WYE SUPPLY FROM: T-1LSL1 PHASES: 3 BRANCH: LIFE SAFETY WIRES: 4 SERVICE RATED: INTEGRAL SPD: Yes MOUNTING: SURFACE AVAILABLE SCC (kA): NEMA ENCLOSURE: NEMA 1 DET_ DUEND DOLED	MAINS TYPE: MCB MCB/MLO RATING: 100 A MCB OPTIONS: SECTIONS: 1 PANEL POLES: 42
D	CKI CIRCOIT DESCRIPTION OP1 RATING POLES A B C PO 1	LES RATING OP1 CIRCUIT DESCRIPTION CK1 2 4 2 4 6 4 6 8 10 10 12 12 11 14 16 11 18 20 11 22 24	CK1 CIRCUIT DESCRIPTION OP1 RATING POLES A B C 1 FACP EMER ELECTRICAL 151 R, L 20 A 1 1000 VA Image: Constraint of the second se	POLES RATING OPT CIRCUIT DESCRIPTION CR1 2 4 2 4 4 6 8 6 10 10 10 12 11 11 12 14 11 11 14 16 11 11 18 20 12 12 22 24
	25	24 26 28 30 32 34 36 38 40 42	23 0 0 0 0 0 0 0 25 0 0 0 0 0 0 0 27 0 0 0 0 0 0 0 29 0 0 0 0 0 0 0 31 0 0 0 0 0 0 0 33 0 0 0 0 0 0 0 35 0 0 0 0 0 0 0 39 0 0 0 0 0 0 0 41 0 0 0 0 0 0 0 TOTAL LOAD: TOTAL AMPS: 8 A 0 A 0 A	24 26 28 30 32 34 36 38 40 42
	LOAD CLASSIFICATION CONNECTED LOAD DEMAND FACTOR ESTIMATED DEMAND PWR-NC 1000 VA 100.00% 1000 VA Image: Ima	PANEL TOTALSCONNECTED LOAD:1000 VACONNECTED CURRENT:1 ADEMAND LOAD:1000 VADEMAND CURRENT:1 ACONSIDER 125% DEMAND:1250 AEQUIPMENT AMPS:100 AFEEDER AVAILABLE:98 %SPARE CAPACITY:99 A	LOAD CLASSIFICATION CONNECTED LOAD DEMAND FACTOR ESTIMATED DEMAN PWR-NC 1000 VA 100.00% 1000 VA Image: String of the stri	ID PANEL TOTALS CONNECTED LOAD: 1000 VA CONNECTED CURRENT: 3 A DEMAND LOAD: 1000 VA DEMAND CURRENT: 3 A CONSIDER 125% DEMAND: 1250 A EQUIPMENT AMPS: 100 A FEEDER AVAILABLE: SPARE CAPACITY: 97 % 97 % 97 A
С	OPTIONS: CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVI - PROVIDE CIRCUIT BREAKER WITH RED MARKING GENERAL REMARKS: A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).	GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT IDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R'	OPTIONS: CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVI BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PR - PROVIDE CIRCUIT BREAKER WITH RED MARKING GENERAL REMARKS: A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURREN	DE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT OVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R'
	PANEL: 1CH1 LOCATION: EMERGENCY ELECTRICAL VOLTS: 480/277 WYE SUPPLY FROM: ATS-C PHASES: 3 BRANCH: CRITICAL WIRES: 4 SERVICE RATED: INTEGRAL SPD: Yes MOUNTING: SURFACE AVAILABLE SCC (kA): NEMA ENCLOSURE: NEMA 1 C	MAINS TYPE: MCB MCB/MLO RATING: 225 A MCB OPTIONS: SECTIONS: 1 PANEL POLES: 42 LES RATING OPT CIRCUIT DESCRIPTION CKT	PANEL: 1CL1 LOCATION: EMERGENCY ELECTRICAL VOLTS: 208/120 WYE SUPPLY FROM: T-1CL1 PHASES: 3 BRANCH: CRITICAL WIRES: 4 SERVICE RATED: INTEGRAL SPD: Yes MOUNTING: SURFACE AVAILABLE SCC (kA): NEMA ENCLOSURE: NEMA 1 C	MAINS TYPE: MCB MCB/MLO RATING: 250 A MCB OPTIONS: SECTIONS: 1 PANEL POLES: 42 POLES RATING OPT CIRCUIT DESCRIPTION CKT
	1 1 125 A 3 0 VA 0 VA 0 VA 5 125 A 3 0 VA 0 VA 0 VA 7 0 0 0 VA 0 VA 9 0 0 0 0 11 0 0 0 0 13 0 0 0 0 15 0 0 0 0 17 0 0 0 0 19 0 0 0 0 21 0 0 0 0 23 0 0 0 0	2 4 6 8 10 10 12 11 14 16 18 20 22 24	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2 4 4 6 8 10 10 12 11 14 11 14 11 14 11 14 11 14 12 14 13 18 20 22 20 22 20 22
В	25 27 28 29 29 29 20 <td< td=""><td>26 28 30 32 34 36 38 40 42</td><td>25 1</td><td>26 28 30 32 32 34 34 36 36 38 40 40 42</td></td<>	26 28 30 32 34 36 38 40 42	25 1	26 28 30 32 32 34 34 36 36 38 40 40 42
	LOAD CLASSIFICATION CONNECTED LOAD DEMAND FACTOR ESTIMATED DEMAND	PANEL TOTALSCONNECTED LOAD:0 VACONNECTED CURRENT:0 ADEMAND LOAD:0 VADEMAND CURRENT:0 ACONSIDER 125% DEMAND:0 AEQUIPMENT AMPS:225 AFEEDER AVAILABLE:100 %SPARE CAPACITY:100 %225 A225 A	LOAD CLASSIFICATION CONNECTED LOAD DEMAND FACTOR ESTIMATED DEMAN	ID PANEL TOTALS CONNECTED LOAD: 0 VA CONNECTED CURRENT: 0 A DEMAND LOAD: 0 VA DEMAND CURRENT: 0 A CONSIDER 125% DEMAND: 0 A EQUIPMENT AMPS: 250 A FEEDER AVAILABLE: 100 % SPARE CAPACITY: 100 % 250 A 250 A
	OPTIONS: CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVID - PROVIDE CIRCUIT BREAKER WITH RED MARKING GENERAL REMARKS: A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).	GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT IDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R'	OPTIONS: CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVI BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PR - PROVIDE CIRCUIT BREAKER WITH RED MARKING GENERAL REMARKS: A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURREN	IDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT OVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R'
A				

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	PANEL:	IT-2)													I
	LOCATION: SUPPLY FROM: BRANCH: SERVICE RATED: MOUNTING: NEMA ENCLOSURE:	IT 160 1CL1 CRITIC, SURFA	AL .CE 1		AVAIL	INTEG -ABLE	VOLTS PHASES WIRES GRAL SPI	3: 208/1 3: 3 3: 4 D: Yes):	120 WYE		МС	MAINS B/MLO R MCB OF SEC PANEL	S TYPE: MO ATING: 10 TIONS: TIONS: 1 POLES: 42	2B 0 A		
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			TOTAL	AMPS:	0 A		0	A	C) A						
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ENE PA	ERAL REMARKS: NEL AIC (INTERRUPTING) RATIN	NG SHAL	LL BE MIN	IIMUM 120%	6 OF THE	AVAIL	ABLE SC	C (SHO	RT CIRCUI	T CURREN	T).					

	I Z	3	
	PANEL: 1NH1 LOCATION: ELECTRICAL 152 VOLTS: 480/277 WYE MAINS TYPE: MCB SUPPLY FROM: MSB PHASES: 3 MCB/MLO RATING: 400 A BRANCH: NORMAL WIRES: 4 MCB OPTIONS: SERVICE RATED: INTEGRAL SPD: No SECTIONS: 1 MOUNTING: SURFACE AVAILABLE SCC (kA): PANEL POLES: 42	PANEL: 1NL1 VOLTS: 208/120 WYE MAINS TYPE: LOCATION: ELECTRICAL 152 VOLTS: 208/120 WYE MAINS TYPE: SUPPLY FROM: T-1NL1 PHASES: 3 MCB/MLO RATING: BRANCH: NORMAL WIRES: 4 MCB OPTIONS SERVICE RATED: INTEGRAL SPD: No SECTIONS MOUNTING: SURFACE AVAILABLE SCC (kA): PANEL POLES NEMA ENCLOSURE: NEMA 1 HEMA PANEL POLES	:: MCB :: 500 A :: :: 2 :: 84
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	BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING GENERAL REMARKS:	83 TOTAL LOAD: 0 VA 0 VA 0 VA TOTAL AMPS: 0 A	
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1 1	PANEL: IT-1 LOCATION: IT 160 VOLTS: 208/120 WYE MAINS TYPE: MCB SUPPLY FROM: 1NL1 PHASES: 3 MCB/MLO RATING: 100 A BRANCH: NORMAL WIRES: 4 MCB OPTIONS: SERVICE RATED: INTEGRAL SPD: SECTIONS: 1 MOUNTING: SURFACE AVAILABLE SCC (kA): PANEL POLES: 42 NEMA ENCLOSURE: NEMA 1 C POLES RATING OPT CIRCUIT DESCRIPTION CKT		
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	PANEL:	1NL	.2													
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	IT BREAKER OPTIONS SUFFIX (ER / 'ERMS' - ENERGY REDUC	: 'S' OR ING MAI	R 'ST' - PF INTENAN RKING	ROVIDE SH	UNT TR H / 'ZSI'	IP CIR(- ZONE	CUIT BRE	aker / Ive inte	'G' OR 'GF RLOCKING	CI' - PROVI / 'L' - PR	IDE GFC OVIDE (CIRCUI	T BREAK BREAKE	(ER / ' R WITH	GFP' - PROVIDE GFP (LOCKING PROVISIONS	CIRCU S / 'I

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