APPARATUS RENOVATION 56 SCHOOL STREET NORTH BROOKFIELD, MA 01535





TECTON ARCHITECTS

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CONSULTING ENGINEERING SERVICES 811 MIDDLE STREET MIDDLETOWN, CT 06457

DRAWING LIST

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FUSS & O'NEILL, INC.

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Client/ Contractor TOWN OF NORTH BROOKFIELD

> 215 NORTH MAIN STREET NORTH BROOKFIELD, MA

PROGRESS SET NOT FOR CONSTRUCTION







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BUILDING INFORMATION FOR CODES ANALYSES The information on this form is for work being constructed in the State of Massachusetts and has been modified to reflect the Ninth Edition of the Massachusetts State Building Code. This edition is based on modified versions of the 2015 International Building Codes, with applicable CMR amendents. It is intended to expedite the plan review process and is for archival purposes. It assembles all code related information into one table. The information shall be placed on the drawings and become a This is an existing assumed Type V DPW garage building that will be converted into a new Apparatus Bay and support building auxillary to the main Fire Headquarters located on the same site. It will be operated and occupied by the Town of North Brookfield. The existing DPW is considered a single story, non-separated mixed-use occupancy containing garage space (S-2) and support spaces (B - Accessory). Althrough the occupancy classification will remain the same, the hazard level will be increased to a Risk Category IV classification. The project work will be considered a mix of Level 1 and Level 2 Alteration which is designated in the Alteration Key Plan This code review is based on modified versions of the 2015 IBC with applicable 780 CMR amendments. The aggregate building area will remain unchanged at roughly Egress capacities, requirements and occupant loads are all shown on the included life safety plans. An additional egress door will be installed at the far side of the main garage bay in lieu of the existing swing door that is integrated into the overhead sectional door. Two existing exterior egress doors exit from the office spaces to the rear



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STRU	CTURAL ABBREVIATIONS & SYMBOLS
ADD'L	ADDITIONAL
ARCH.	ARCHITECT(URAL)
BLDG.	BUILDING
B.O.F.	BOTTOM OF FOOTING
B.O.S.	BOTTOM OF STEEL
BOT.	воттом
BP-#	BASE PLATE REFERENCE
CJ	CONTROL JOINT
C.L.	
СМО	
COL.	
FA	FACH
E.F.	EACH FACE
EL	
EQ.	EQUAL
E.W.	EACH WAY
FIN.	FINISH(ED)
FL.	FLOOR
F.R.P.	FIBERGLASS REINFORCED PLASTIC
F.R.T.	FIRE RETARDANT TREATED
FTG.	FOOTING
GA. (ga.)	GAUGE
GALV.	GALVANIZED (HOT-DIPPED GALVANIZED
G.C.	GENERAL CONTRACTOR
GEOTECH	GEOTECHNICAL
GYP.	GYPSUM
HORIZ.	HORIZONTAL
INFO.	INFORMATION
К	KIP
LB.	POUND
LGMF	LIGHT-GAUGE METAL FRAMING
MAX.	MAXIMUM
MECH.	MECHANICAL
MISC.	MISCELLANEOUS
MIN.	MINIMUM
MFR.	MANUFACTURER
O.C. (o.c.)	ON CENTER
P#	PIER REFERENCE
PEMB	PRE-ENGINEERED METAL BUILDING
PLF (plf)	POUNDS PER LINEAR FOOT
PSF (psf)	POUNDS PER SQUARE FOOT
PSI (psi)	POUNDS PER SQUARE INCH
P.T.	PRESSURE-TREATED
REINF.	REINFORCED
REQ'D	REQUIRED
SCH.	SCHEDULE
SIM.	SIMILAR
SP.	SPACING
T&B	TOP AND BOTTOM
T.O.P.	TOP OF PIER
T.O.S.	TOP OF STEEL
T.O.SHELF	TOP OF SHELF
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
VERT.	VERTICAL
-	WELDED WIRE FARRIC
W.W.F.	
W.W.F. @	AT

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4.	AMERICAN INSTITUTE OF STEE AMERICAN CONCRETE INSTITU	L CONSTRUCTION (AISC))	
R	CONCRETE REINFORCING STE	EL INSTITUTE (CRSI)		
<u></u> 1.	SNOW LOAD: GROUND SNOW LOAD		50 psf	
	EXPOSURE FACTOR THERMAL FACTOR		1.0 1.0 IV	
	RISK CATEGORY DESIGN SNOW LOAD DRIFTING		IV 42 psf AS PER 780 CMR 16	10
2.	WIND LOAD: BASIC WIND SPEED (ULT	MATE)	132 mph	
2	EXPOSURE CATEGORY RISK CATEGORY		C IV	
3.	SEISMIC LOADS: R		3.0 (STEEL SYSTEM	S NOT SPECIFICALLY DETAILED
	Sds Sd1		0.188 0.106	
	T RISK CATEGORY		0.137 IV D (ASSUMED)	
	SEISMIC DESIGN CATEGO EQUIVALENT LATERAL FO	DRY DRCE METHOD	C (ASSOMED)	
<u>C -</u>	STRUCTURAL STEEL:			
1.	ALL STRUCTURAL STEEL TO CO W-SHAPES	OMPLY WITH ASTM REQU	IREMENTS AS FOLLO fy = 50 ksi	NS:
2.	ALL OTHERS BOLTED CONNECTIONS TO BE	A300 A36 MADE WITH SLIP CRITICA	fy = 46 ksi fy = 36 ksi AL CONNECTION AS PE	ER ASTM-325.
3. 4.	MINIMUM THICKNESS OF CONN LEVELING PLATES TO BE 1/4" T	IECTING ANGLES TO BE 3 HICK, SAME SIZE AS BAS	8/8". E PLATE.	
5. 6.	ALL EXPOSED WELDING SHALL ALL MISALIGNED BOLT HOLES	. BE GROUND SMOOTH. IN STRUCTURAL STEEL S	HALL BE PLUG WELDE	ED SOLID AND REDRILLED FOR
7.	G.C. SHALL VERIFY IN WRITING CURRENT AISC STANDARDS AI	THAT ALL BOLTED CONN ND HAVE BEEN TORQUE-	NECTIONS ARE COMPL	.ETED AS SPECIFIED, AS PER FO AISC SPECIFICATIONS BEFORE
8.	LOADS ARE APPLIED. ALL UNUSED BOLT HOLES SHA	LL BE PLUG WELDED SOI	LID AND GROUND SMC	ООТН.
9. 10	ALL WELDING (IN SHOP & FIELD AWS-CERTIFIED WELDER.)) SHALL COMPLY WITH L	ATEST AWS STANDAF	DS AND SHALL BE COMPLETED B
10.	STEEL COLUMNS ASTM F1554 (UNLESS	OTHERWISE NOTED ON	BASE PLATE DETAILS)
	MIN Ø = 3/4" OR 1" (SE LENGTH = 24" EMBED	E BASE PLATE DETAILS)		BEDDED END
11.	UNLESS OTHERWISE NOTED, A METAL PRIMER OR EQUAL. CO	LL STRUCTURAL STEEL S OR TO BE GREY.	SHALL BE PAINTED WI	TH UNE SHOP COAT OF TNEMEC
<u>D -</u>	STEEL LINTELS:			
Ι.	UNDER MISCELLANEOUS META	LS) SHALL BE AS FOLLO LINTFI / 4" WIN	WS U.O.N. ON PLAN: TH OF MASONRY	DUCTO, VENTO, ETC. (FURNISHE
	0'-0" 4'-0" 4'-1" 6'-0"	L4 x 3-1/2 x 3/8 L5 x 3-1/2 x 3/8		
2.	6'-1" 8'-0" BEARING OF LINTELS ON WALL	L6 x 3-1/2 x 3/8 . TO BE 8" MINIMUM. GRO	UT 3 CELLS (MIN.) SOL	ID BELOW FOR BEARING.
3.	ALL EXTERIOR ANGLE LINTELS	AND ALL BEAMS WITH P	LINTELS TO BE HOT D	IPPED GALVANIZED.
<u>E -</u> 1.	CONCRETE & MASONRY	ADE TO BE 4,000 PSI AT 2	28 DAYS. CONCRETE F	OR FOUNDATION WALLS AND
2. 3	CONCRETE WORK TO CONFOR	28 DAYS. CONCRETE FOR M TO ACI-318 CODE, LAT UNDER ALL SLABS ON G	EST EDITION. RADE	O BE 5,000 psi AT 28 DAYS.
4. 5.	COLUMN FOOTINGS SHALL BE STEEL COLUMN POCKETS TO E	CENTERED UNDER COLU 3E FILLED WITH CONCRE	IMNS UNLESS OTHER	WISE NOTED OR DRAWN. RE IN PLACE.
6. 7.	ALL CONCRETE TO BE STONE	CONCRETE. LOWABLE STRESS OF F'n	n = 1,900 PSI.	
8. a	CMU SUPPLIER SHALL SUBMIT COMPLIANCE WITH ASTM C 90.			ATA AND SHALL CERTIFY CMU
F -	CONCRETE REINFORCIN	IG:		
1. 2.	ALL CONCRETE REINFORCING CONCRETE REINFORCING TO E	TO COMPLY WITH LATES 3E NEW BILLET STEEL, G	T EDITION OF CRSI. RADE 60.	
3. 4.	WELDED WIRE FABRIC TO BE A REINFORCING STEEL CLEAR C	S PER ASTM-A185. OVER TO BE AS FOLLOW	S:	
	FORMED CONCRETE SUF	FACES IN CONTACT WIT	H SOIL, WATER	3" 2" 3/4"
5.	TIES IN CONCRETE PIER	S RS TO BE 1" BELOW TOP	OF PIER.	1-1/2"
<u>G -</u>	WOOD:			
1. 2.	ALL WOOD NAILERS TO BE PRE ALL WOOD MEMBERS TO HAVE	ESSURE TREATED UNLES	S OTHERWISE NOTED). SSES:
	Fb = 875 psi Fv = 135 psi	PROCE PINE FIR)	EVE MEMBERS Fb = 2,800 psi Fv = 285 psi	
	E = 1,400,000 psi		E = 1,900,000 psi	
<u>H -</u> 1.	LIGHT-GAUGE: ALL LIGHT-GAUGE MEMBERS T	O COMPLY WITH LATEST	EDITION OF AISI.	
2.	LIGHT-GAUGE METAL FRAMING RESPONSIBLE FOR LIGHT-GAU	; SYSTEM TO BE COMPLE GE MEMBER SIZES, SPAC	TELY DESIGNED BY C CING, CONNECTIONS,	ONTRACTOR. CONTRACTOR IS TEMPORARY BRACING, ETC.
-	NO GAPS ARE PERMITTED BET		FRAMING JOISTS AND	RIM TRACKS. M TRACKS SUPPORTING HORIZON
3. 4.	FRAMING	WEEN ANY HORIZONTAL WEEN ANY WALL STUDS	AND TOP AND BOTTO	
3. 4. 5.	FRAMING. LIGHT-GAUGE MEMBERS SHAL a.) METAL STUDS AND JOI	WEEN ANY HORIZONTAL WEEN ANY WALL STUDS L MEET THE FOLLOWING STS - Fy = 33 ksi	MINIMUM CRITERIA:	
3. 4. 5. 6.	FRAMING. LIGHT-GAUGE MEMBERS SHAL a.) METAL STUDS AND JOI b.) MEMBERS WHERE NOT LIGHT-GAUGE METAL JOISTS S	WEEN ANY HORIZONTAL WEEN ANY WALL STUDS L MEET THE FOLLOWING STS - Fy = 33 ksi ED - Fy = 50 ksi HALL HAVE 2" MINIMUM F	AND TOP AND BOTTO MINIMUM CRITERIA:	
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NOTES : 1.) (E) INDICATES EXISTING, OTHERWISE NEW. 2.) G.C. SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IF THE ACTUAL FIELD

- CONDITIONS DIFFER FROM THE EXISTING CONDITIONS INDICATED ON THE STRUCTURAL DRAWINGS. 3.) FIELD VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. 4.) VERIFY ALL NEW DIMENSIONS AND ELEVATIONS WITH EXISTING CONDITIONS AND ARCHITECT.
- 5.) G.C. TO RELOCATE ALL EXISTING CONDUITS, DUCTS, PIPES, OUTLETS, SWITCHES, ETC. AS REQUIRED TO PERFORM THE WORK INDICATED (NOT SHOWN FOR CLARITY).
- 6.) G.C. TO REMOVE AND REPLACE ALL INTERIOR FINISHES AS REQUIRED TO PERFORM THE WORK INDICTED (NOT SHOWN FOR CLARITY) - MATCH ORIGINAL CONDITIONS.

ROOF FRAMING PLAN SCALE: 1/8" = 1'-0"

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CC DR F	NSTRUCTION AWINGS (FOR REFERENCE)			BUILDING SIGNAGE
DOOR NUMBER	ROOM NAME	SIGN TYPE	SIGN NUMBER	SIGN TEXT
FIRST FLC	OR			
104A	APPARATUS BAY		104	APPARATUS BAY
104B	APPARATUS BAY		104	APPARATUS BAY
104C	APPARATUS BAY		104	APPARATUS BAY
104D	APPARATUS BAY		104	APPARATUS BAY
104E	APPARATUS BAY		104	APPARATUS BAY
104F	APPARATUS BAY		104	APPARATUS BAY
104G	APPARATUS BAY		104	APPARATUS BAY
105	SECONDARY APPARATUS BAY		105	SECONDARY APPARATUS BAY

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G	ENERAL NOTES	- DEMOLITIO	N
1.	THE CONTRACTOR SHALL BE NECESSARY TO COMPLETE T RESPONSIBLE FOR THE REMO FOR CARRYING AND DUMPING PROJECT. THE CONTRACTOR MATERIALS, INCLUDING DOOD ETC., BEFORE REMOVING FR	RESPONSIBLE FOR ALL D HE WORK. THE CONTRAC OVAL AND PROPER DISPO G, OF ALL MATERIAL DEMO SHALL PROVIDE OWNER RS, HARDWARE, WINDOWS OM SITE.	EMOLITION AND REMOVAL TOR SHALL ALSO BE SAL, INCLUDING ALL COSTS DLISHED FROM THE WITH FIRST RIGHTS TO ALL S, PLUMBING FIXTURES,
2.	THE CONTRACTOR SHALL BE TO REMAIN AREAS AND SURF WORK NECESSARY TO READ CONSTRUCTION PHASE. MAT OCCURS.	RESPONSIBLE TO PATCH FACES AS NOTED AND/OR Y SURFACES FOR NEW FI CH ALL ADJACENT MATER	AND REPAIR ALL EXISTING, SHOWN. THIS INCLUDES ALL NISH (N.I.C.) TO FOLLOW IN IALS WHERE PATCHING
3.	ANY AND ALL PLUMBING FIXT REMOVED AND DISCARDED, U WHICH IS BEING ABANDONED TERMINATION POINT. ALL REI FLOORS BELOW, FLOORS AB PATCHED AND PREPPED FOR	URES/ACCESSORIES SHO JNLESS OTHERWISE NOTE SHALL BE REMOVED AND LATED WORK REQUIRED II OVE OR ON THE EFFECTE NEW FINISH.	WN DASHED ARE TO BE ED. ANY RELATED PIPING O CAPPED TO NEAREST N ADJACENT WALLS, D FLOOR ITSELF SHALL BE
4.	ALL WALLS SHOWN DASHED A OTHERWISE NOTED. ANY WA PATCHED AND REPAIRED WIT CHANGE OF PLANE OR OTHE CLEAN TRANSITION FROM TH EXISTING SURFACES (THE IN CONDITION).	ARE TO BE REMOVED AND ALL OR SURFACE BEING W TH A COMPLETE FINISH TC R JUNCTURE WHICH ALLO HE NEWLY FINISHED SURF ITENT IS TO AVOID THE AF	DISCARDED, UNLESS ORKED ON SHALL BE THE NEAREST CORNER, WS FOR A SMOOTH AND ACE TO THE SURROUNDING PPEARANCE OF A PATCHED
5.	UNLESS NOTED OTHERWISE, BASE TRIM ARE TO BE REMO PREPARE CONCRETE AS NEC PERTAINS TO ELEVATOR LOB	ALL FLOOR SURFACES/ F VED TO FLOOR SLAB AND CESSARY FOR REFINISHIN BY SPACES AS WELL.	INISHES AND FLOORING DISCARDED. CLEAN AND G. THIS DEMO AND PREP
6.	IT IS NOT THE INTENT TO SHO DEMOLITION WORK. MECHAN A WALL OR AREA SCHEDULEI PERFORMED WHETHER SO N SALVAGE AND REUSE OR SCI	DW EVERY PIECE OR ITEM NCAL, ELECTRICAL AND OF D FOR DEMOLITION AND R OTED OR NOT. PROTECT HEDULED TO REMAIN.	TO BE REMOVED IN R OTHER WORK RELATED TO EMOVAL SHALL BE ALL ITEMS INTENDED FOR
7.	WHEN WALLS, COLUMNS, RO OR BRACING ELEMENTS ARE STRUCTURAL SUPPORTS AND SHALL BE PROVIDED AND MA IN PLACE AND ABLE TO SUPP	OF CONSTRUCTION, OR O SCHEDULED FOR DEMOLI D BRACING FOR THE ADJA INTAINED UNTIL THE PERM ORT THE IMPOSED LOADS	THER SUPPORTING AND / TION, TEMPORARY CENT CONSTRUCTION MANENT STRUCTURES ARE S.
8.	PRESERVE AND PROTECT AL WHERE POSSIBLE IN AREAS (L FLOOR, WALL, AND CEIL OF DEMOLITION. PATCH T	ING FINISHES TO REMAIN O MATCH AS REQUIRED.
9.	REPAIR ALL REMAINING WALL DEMOLITION OCCURS. THIS CEILINGS AND WALLS AT FLO EXTENT.	LS, CEILINGS AND FLOOR INCLUDES MEP AND OTHE OR BELOW. SEE MEP DR	SURFACES WHERE ER NECESSARY WORK IN AWINGS FOR PROBABLE
10.	ALL EQUIPMENT OR FURNITU STOCKPILED FOR OWNER RE VERIFY WITH OWNER FOR AN	RE SHOWN DASHED IS TO USE OR STORAGE. SEE PI IY LAST MINUTE CHANGES	BE REMOVED AND ROPOSED PLANS AND S.
11.	REFER TO MEP PLANS AND O	R SPECS FOR SCOPE OF	ALL MEP DEMOLITION.
12.	ALL DOORS AND WINDOWS S DISCARDED, INCLUDING FRAM OTHERWISE.	HOWN DASHED ARE TO BE MES AND HARDWARE EXC	E REMOVED AND EPT WHERE NOTED
D	EMOLITION LEG	GEND	

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 No.
 Date
 Description

 12/1/2023
 50% CD DOCUMENTS
 Drawing Title DEMOLITION PLANS Project Manager: PM Project No: NBR02AR.01 Project Architect: Production Leader: PL _____ Project Designer: ID Peer Reviewer: PR Drawing Number A1.10



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 PROVIDE SQL ID WOOD RUDCHING FOR ALL INDICATED WALL HUNGE TOURHARD. FIRE SAFE ALL PRE-TRATTONS IN RATED WALL ASSEMBLES SET TYPICAL RA MALL PRE-INFORMATION ID TALL ALING FACE OF RAY FIRING INTIN TAGE OF EXISTING FINISH AT ALL OFFICIAL BOARD MHL. DESTINATION OF TALL ACCESS FAVELS WITH MEP EQUIPMENT. ALIDENSIDIAS SHALL BE FERD VERIFIED OF THE CONTINACION AND ANY DISDERBANDES SHALL BE FERD VERIFIED OF THE CONTINACION AND ANY DISDERBANDES SHALL BE FERD VERIFIED OF THE CONTINACION AND ANY DISDERBANDES SHALL BE FERD VERIFIED OF THE CONTINACION AND ANY DISDERBANDES SHALL BE SHOWN THE REACT THE CONTINACION AND ANY DISDERBANDES SHALL BE SHOWN THE REACT THE CONTINACION AND ANY DISDERBANDES SHALL BE SHOWN THE REACT THE CONTINACION AND ANY DISDERBANDES SHALL BE SHOWN THE REACT THE RATION AND ANY DISDERBANDES AND ASSEMBLE RESIDENTIAN OF WHAT THE RATION CONTINUE TO STRAIN AND SHOWN TO ANY THE RATION AND ANY DISDERBANDES AND ASSEMBLE RESIDENTIAN OF WHAT THE RATION AND AND ANY THE RATION AND ANY THE RATION AND ANY DISDERBANDES AND ANY THE RATION AND ANY THE RATION DISDERBANDES AND ANY THE RATION AND ANY THE RATION DISDERBANDES AND ANY THE RATION AND ANY THE RATION OF ANY DISDERBANDES AND ANY THE RATION AND ANY THE RATION DISDERBANDES AND ANY THE RATION AND ANY THE RATION DISDERBANDES AND ANY THAN THE RATION AND ANY THE RATION DISDERBANDES AND ANY THAN THAN THE RATION AND ANY THE RATION DISDERBANDES AND ANY THAN THAN THE RATION AND ANY THE RATION DISDERBANDES AND ANY THAN THAN THAN THAN THAN ANY THAN THAN THAN THAN THAN THAN THAN THAN		GYPSUM, I TERMINAT ENCLOSUF A COMPLE	BATT INSULATION). WHER ES AT AN EXISTING COLU RE, THE HIGHER RATING N TE ENVELOPE OF INTEND	E A RATED CONSTRUC MN ENCLOSURE OR N JUST BE PROVIDED. T DED DESIGN RATINGS.	CTION BEGINS/ IEW FURRED, NON-RAT HE INTENT IS TO PRO\
A LIGA FACE OF NEW FINISH THIT FACE OF EXISTING FINISH AT ALL OYPSIUM BOARD INFLL CONTENCION UNLESS OTHER WILE NOTE: VERITY LOCATION OF ALL ACCESS PAULES WITH NEP GUIPRENT. A. LIDARNOODS SHALL BE FELD VERITED BY THE CONTRACTOR AND MY DIRCREMENDESS SHALL BE PERID VERITED TO THE ACCINET. HARD THE MARK THE MARK THE MARK THE MARK THE MARK THE MARK GRAPTERTS QUANTITY AND CRIMEST QUALITY SHALL HE USED. PRESIME THE SHALL BE PERIOD OTHER HARD READ READ READ READ TO HERE MARK THIN IS MINISHER TO THE HARD READ READ READ READ READ READ READ R	3. 4.	PROVIDE S	SOLID WOOD BLOCKING F	OR ALL INDICATED WA	ALL HUNG EQUIPMENT IES. SEE TYPICAL RATI
 9 VERPT LOCATION OF ALL ACCESS PANELS WITH MEP EQUIPMENT 7. ALL DIBENSIONS SHALL BE FILL VERIFIED OF THE CONTRACTOR AND ANY DISCREMANCES SHALL BE FOUNT VEROFTED TO THE ARCHITECT. 9. PRE PATED DUATITY AND OR BEST OUT THE FLOOP ANALY SACCOMPONENT OCTEODS BORSAVED UDITS. NECHAND ON THE FLOOP ANALY SACCOMPONENT ON DIATES. OTHER SACCOMPONENT ON THE ALL NECHAND ON THE PRIVACE THE PERSION ON THE ALL SAFEAGES SECURICS BY DEPOLITION WO OCTITINO TO ALL MOST ON THE ALL SAFEAGES SECURICS DIATES TO SAFEAGES OCTITION ON THE DESIDNATION OF THE CAN THE ALL TO THE PARTING SACLE DOARS ON THE CAN THE ALL SAFEAGES SECURICS DIATES ANALY ALL DOAT PRIVACE DOARS ON THE CAN THE ALL DOATS THE ALL TO ALL THE PARTING UDITS OF THE DESIDNATION OF THE PARTING UCACET THE DOARS ON THE CAN THE ALL TO ALL THE PARTING UCACET THE DOARS ON THE CAN THE ALL TO ALL THE PARTING UCACET TO THE DOARS ON THE CAN THE PARTING ALL UCACET THE DEVELOPMENT AND THE CAN THE CAN THE PARTING ALL UCACET THE DEVELOPMENT AND THE CAN THE PARTING ALL UCACET THE PARTING TO REFERENCE ON THE PARTING ALL UCACET THE PARTING TO REFERENCE ON THE PARTING ALL UCACET THE PARTING THE CAN THE CAN THE PARTING ALL UCACET THE PARTING THE CAN THE CAN THE PARTING ALL UCACET THE PARTING THE CAN THE CAN THE PARTING ALL UCACET THE PARTING THE CAN THE CAN THE PARTING ALL UCACET THE PARTING THE CAN THE CAN THE PARTING ALL UCACET THE PARTING THE CAN THE CAN THE PARTING ALL UCACET THE PARTING THE CAN THE PARTING ALL UCACET THE PARTING THE CAN THE CAN THE PARTING ALL UCACET THE PARTING THE CAN THE CAN THE PARTING ALL UCACET THE DUART ALL UCACET THE ALL UCACET THE PARTING ALL UCACE	5.	ALIGN FAC	ETRATION DETAIL. CE OF NEW FINISH WITH F. FILL CONSTRUCTION UNLI	ACE OF EXISTING FINI ESS OTHER WISE NOT	SH AT ALL GYPSUM ED.
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Infel PATED PARTITIONS INDUCATED ON THE FLOOR PARIS ARE COMPONENT ORTHON SO NATION SOLVED SUBJECT AND SERVICES UNREADED TO ALL AND SOLUTIONS TO PLAKE AND SEPTICATIONS FROM REATIONS OR ALL AND SOLUTIONS TO NUCLETION CARRIENT AND REPORTS ALL SUPPORTS SUPPORTS OF DECISIONS 2017/19/10/14/19/10/14/19/19/10/19/19/19/19/19/19/19/19/19/19/19/19/19/	8.	DISCREPA WHERE TH GREATEST	NCIES SHALL BE PROMPT IE DRAWINGS AND SPECIF I QUANTITY AND OR BEST	LY REPORTED TO THE FICATIONS CONFLICT	E ARCHITECT. THE MOST STRINGENT SED.
INCLUE OF ANY ONE PERSONAL ALL SURFACES EXCREMENTS PROVIDED TO ALLOW WITH USITING SURFACES SCHEDULED TO RELAND ON NE PROVIDED THE CONSTRUCTIVE CERSING SUPPORT OF SUBJECT ON UNLL PROVIDED THE CONSTRUCTIVE CERSING SUPPORT OF SUBJECT ON UNLE SUPPORT OF SUBJECT OF THE PARTITION 13. CALLA ALL ON TO GO CARCES WHICH COURT WHERE DISMILAR MATERIALS MITTERSECT DEVELOCIENT OF CONSTRUCTIVE OF THE PARTITION 13. CALLA ALL ON TO GO CARCES WHICH COURT WHERE DISMILAR MATERIALS MITTERSECT DEVELOCIENT OF CONSTRUCTIVE OF THE PARTITION 13. CALLA ALL ON TO GO CARCES WHICH COURT WHERE DISMILAR MATERIALS MITTERSECT DEVELOCIENT OF CONSTRUCTIVE OF THE PARTITION 13. CALLA ALL ON TO GO CARCES WHICH COURT WHERE DISMILAR MATERIALS MITTERSECT DEVELOCIENT OF CONSTRUCTIVE OF THE PARTITION 14. LUCE DETENDING ALL OF COURT WHERE DISMILAR MATERIALS MITTERSECT DEVELOCIENT OF CONSTRUCTIVE OF THE PARTITION 14. LUCE DETENDING ALL OF CONSTRUCTIVE OF THE PARTITION 15. CALLA ALL ON TO GO CARCES TO CONSTRUCTIVE OF THE PARTITION 15. CALLA ALL ON TO GO CARCES TO THE CONSTRUCTIVE OF THE PARTITION 15. CALLA ALL ON THE CONSTRUCTIVE OF THE PARTITION 16. LUCE ON THE CONSTRUCTIVE OF THE PARTITION 17. LUCE ON THE CONSTRUCTIVE OF THE PARTITION 18. LUCE ON THE CONSTRUCTIVE OF THE PARTITION TO THE PARTITIO	9.	FIRE RATE CONTINUC INTERIOR TO PLANS RATINGS.	ED PARTITIONS INDICATED DUS RATED ASSEMBLIES (BORROWED LIGHTS, MEC AND SPECIFICATIONS FO WHERE THE SPECIFIC ME	O ON THE FLOOR PLAN CONSISTING OF WALLS HANICAL PENETRATIC R METHODS OR ACHIE THOD OF ACHIEVING	IS ARE COMPONENTS S, FLOOR, DOORS, DNS AND CEILINGS. RE EVING THE NECESSAR THE RATING IS NOT YOR TO RIDDING
 ALL EXISTING FINISHED REMAINING IN PLACE (I.E. CARPET, VCT, CEILINGS, ET SHALL BE CLEANED UTLIZING EFFECTIVE CLEANING ARE NOT SPECIFICALLY LOCATE PRODUCE THE RED BOORS IN META 3 TUD PARTITION SARE NOT SPECIFICALLY LOCATE THE PLANS WHO DOERSION STRONGS, PROVIDE AT UNIX MINIMUM INICE STRONG DIMENSION OF 6' WHERE DOORS APPEAR TO BE CENTERED WHICH PARTITIC LOCATE THE DOOR IN THE CENTER OF THE PARTITION. CALL KALL-JOINT OR CRACKS WHICH COCUR WHERE DISSINUARIAM ANTERINS. TO VIEW UNLESS INDICATED OTHERWISE ON THE DRAWINGS FOR DESIDE CONSTRUCTION REFERENCE ON THE COLOR DRAWINGS FOR DESIDE CONSTRUCTION METHODS. CONSTRUCTION METHODS CONSTRUCTION METHODS CONSTRUCTION METHODS MALENSING TENS NEW CONSTRUCT METHODS MALENSING TENS NEW CONSTRUCT METHODS DOOR TAS WINDOW TAG 	10.	PATCH, RE CUTTING 1 FINISHES	EPAIR, AND REFINISH ALL FO ALIGN WITH EXISTING S	SURFACES EXPOSED SURFACES SCHEDULE	BY DEMOLITION WORF
 1. WHERE DOORS IN METAL STUD PARTITIONS ARE NOT SPECIFICALLY LOCATED THE PLANS WITH DIMENSION STRINGS, PROVIDE A MINIMUM PROCE DIMENSION DIMENSION OF 9 WHERE DOORS APPEAR TO BE CONTRECTION IN EXPLICIT LICATE THE DOOR IN THE CENTER OF THE PARTITION. 1. CALLY ALL JOINT OR DEPAGKS WHON COCUR WHERE DESIMILAR AMERALS. INTERSECT PERPENDICULAR TO EACH OTHER AND THE INTERSECTION IS EXPLICIT TO WER UNDERS INVOLTED DEVICENCE ON THE DAMINOS DOOR TRUCTION LEGEND DAMES NOW REFERENCE ON LY. REFER TO ONL DRAWINGS FOR DESIGN CONSTRUCTION METHODS. 1. ALT FE FUNTS IGA I. ALT MORK LANGSCAPING, CONCRETE STARS, ET MILLIOR REFERENCE ON LY. REFER TO ONL DRAWINGS FOR DESIGN CONSTRUCTION METHODS. 2. MARTITION TAG 2. MARTITION TAG 3. MARTITION TAG 3.	11.	ALL EXIST SHALL BE PRODUCE	ING FINISHED REMAINING CLEANED UTILIZING EFFE THE MOST DESIRABLE RE	IN PLACE (I.E. CARPE CTIVE CLEANING MET ESULTS POSSIBLE.	T, VCT, CEILINGS, ETC HODS WHICH WILL
	12.	WHERE DO THE PLANS DIMENSION LOCATE TI	DORS IN METAL STUD PAF S WITH DIMENSION STRIN N OF 6". WHERE DOORS A HE DOOR IN THE CENTER	RTITIONS ARE NOT SPI GS, PROVIDE A MINIM PPEAR TO BE CENTEF OF THE PARTITION.	ECIFICALLY LOCATED UM HINGE SIDE JAMB RED WITHIN PARTITION
14. ALTETELEVENTS LEG. FLAT WORK, LANGSCAPING, CONCRETE STAIRS, ETA ARE SHOWN PREFERENCE OUV, REFERE TO QUIL DRAWINGS FOR DESIGN CONSTRUCTION RETHOS EXISTING ITEMS NEW CONSTRUCT ON PARTITION TAG DOOR TAG NILLWORK NUCLOW TAG	13.	CAULK ALL INTERSEC TO VIEW U	L JOINT OR CRACKS WHIC T PERPENDICULAR TO EA INLESS INDICATED OTHEF	H OCCUR WHERE DIS CH OTHER AND THE II WISE ON THE DRAWII	SIMILAR MATERIALS NTERSECTION IS EXPON NGS.
EXISTING ITEMS NEW CONSTRUCT Image: Construct items Hatten construct Image: Construct items Image: Construct items Image: Construct items Image	14.	ALL SITE E ARE SHOW CONSTRUE	ELEMENTS (e.g. FLAT WOF VN FOR REFERENCE ONLY CTION METHODS	RK, LANDSCAPING, CO /. REFER TO CIVIL DR/	NCRETE STAIRS, ETC. AWINGS FOR DESIGN A
EXISTING ITEMS NEW CONSTRUCTI (330) PARTITION TAG (11) DOOR TAG (11) VINDOW TAG VINDOW TAG VINDOW TAG	С	ONST		GEND	
DOOR TAG		<u>A</u> 3-0>	EXISTING ITEMS		NEW CONSTRUCTIO
		(101)	DOOR TAG	(1t)	MILLWORK WINDOW TAG

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 No.
 Date
 Description

 12/1/2023
 50% CD DOCUMENTS
 Drawing Title FLOOR PLAN Project Manager: PM Project No: NBR02AR.01 Project Architect: Production Leader: PL -----Project Designer: ID Peer Reviewer: PR Drawing Number A2.10



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K4 ROOF TRANSITION DETAIL

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ARE SHOWN FOR REFERENCE ONLY. REFER TO CIVIL DRAWINGS FOR DESIGN AND CONSTRUCTION METHODS **ROOF CONSTRUCTION LEGEND**

DS	DOWNSPOUT	X	ROOF CONSTRUCTION TAG
	ROOF DRAIN		WALKWAY PAD
K" / 1'-0"	ROOF PITCH & SLOPE DIRECTION		SPLASH BLOCK

1

GENERAL NOTES - CONSTRUCTION

A COMPLETE ENVELOPE OF INTENDED DESIGN RATINGS.

WALL PENETRATION DETAIL.

FINISHES SPECIFIED.

1. ALL WALLS ARE TYPE A3-0 UNLESS OTHERWISE NOTED. PARTITION TYPES CONTINUE AROUND CORNERS UNLESS INDICATED OTHERWISE.

2. WHERE TWO DENOTED WALL TYPES COINCIDE, THE MOST STRINGENT OF BOTH

TERMINATES AT AN EXISTING COLUMN ENCLOSURE OR NEW FURRED, NON-RATED ENCLOSURE, THE HIGHER RATING MUST BE PROVIDED. THE INTENT IS TO PROVIDE

WALL CONSTRUCTION DEFINITIONS APPLIES TO THAT WALL (ie. FIRE CODE GYPSUM, BATT INSULATION). WHERE A RATED CONSTRUCTION BEGINS/

3. PROVIDE SOLID WOOD BLOCKING FOR ALL INDICATED WALL HUNG EQUIPMENT.

4. FIRE SAFE ALL PENETRATIONS IN RATED WALL ASSEMBLIES. SEE TYPICAL RATED

5. ALIGN FACE OF NEW FINISH WITH FACE OF EXISTING FINISH AT ALL GYPSUM

7. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY

DISCREPANCIES SHALL BE PROMPTLY REPORTED TO THE ARCHITECT.

8. WHERE THE DRAWINGS AND SPECIFICATIONS CONFLICT THE MOST STRINGENT,

9. FIRE RATED PARTITIONS INDICATED ON THE FLOOR PLANS ARE COMPONENTS OF CONTINUOUS RATED ASSEMBLIES CONSISTING OF WALLS, FLOOR, DOORS,

INTERIOR BORROWED LIGHTS, MECHANICAL PENETRATIONS AND CEILINGS. REFER TO PLANS AND SPECIFICATIONS FOR METHODS OR ACHIEVING THE NECESSARY RATINGS. WHERE THE SPECIFIC METHOD OF ACHIEVING THE RATING IS NOT INDICATED, OBTAIN CLARIFICATION FROM ARCHITECT PRIOR TO BIDDING.

10. PATCH, REPAIR, AND REFINISH ALL SURFACES EXPOSED BY DEMOLITION WORK OR CUTTING TO ALIGN WITH EXISTING SURFACES SCHEDULED TO REMAIN OR NEW

11. ALL EXISTING FINISHED REMAINING IN PLACE (I.E. CARPET, VCT, CEILINGS, ETC.) SHALL BE CLEANED UTILIZING EFFECTIVE CLEANING METHODS WHICH WILL

12. WHERE DOORS IN METAL STUD PARTITIONS ARE NOT SPECIFICALLY LOCATED ON THE PLANS WITH DIMENSION STRINGS, PROVIDE A MINIMUM HINGE SIDE JAMB DIMENSION OF 6". WHERE DOORS APPEAR TO BE CENTERED WITHIN PARTITIONS,

13. CAULK ALL JOINT OR CRACKS WHICH OCCUR WHERE DISSIMILAR MATERIALS

14. ALL SITE ELEMENTS (e.g. FLAT WORK, LANDSCAPING, CONCRETE STAIRS, ETC.)

INTERSECT PERPENDICULAR TO EACH OTHER AND THE INTERSECTION IS EXPOSED

PRODUCE THE MOST DESIRABLE RESULTS POSSIBLE.

LOCATE THE DOOR IN THE CENTER OF THE PARTITION.

TO VIEW UNLESS INDICATED OTHERWISE ON THE DRAWINGS.

BOARD INFILL CONSTRUCTION UNLESS OTHER WISE NOTED.

6. VERIFY LOCATION OF ALL ACCESS PANELS WITH MEP EQUIPMENT.

GREATEST QUANTITY AND OR BEST QUALITY SHALL BE USED.

— — — EXTERIOR FACE OF FOUNDATION (F/FND)

ROOF CONSTRUCTION TYPES

- NOTE: COMPONENTS ARE LISTED FROM EXTERIOR TO INTERIOR
- **ROOF CONSTRUCTION TYPE 1:**
- ASSEMBLY U-FACTOR: .033 (R-30) FULLY ADHERED MEMBRANE ROOFING SYSTEM ON
- PROTECTION BOARD ON
- 4" RIGID POLYISO INSULATION (R-22 MIN.) ON SELF-ADHERING VAPOR RETARDER ON
- EXISTING ROOF CONSTRUCTION

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CTED CEILING	PLAN LEC	IG AND REPAIRING THE
EXISTING ITEMS	1t 10°-0"	NEW CONSTRUCTION <u>CEILING TAG</u> — CEILING TYPE — CEILING HEIGHT
ACOUSTICAL CEILING		GYPSUM BOARD CEILIN
RECESSED 2x2 LIGHT FIXTURE		RECESSED LINEAR LIGH FIXTURE

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J3 SECTION AT SECONDARY APP BAY I

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					FRAME									HARDWARE					
	DESCRI	PTION			DI	ESCRIPTIO	N	SIZ	ZE		DET	AILS		ίΕΤ					
IYPE - PANEL 2	MATERIAL	FINISH	UNDERCUT	INSULATED	ТҮРЕ	MATERIAL	FINISH	SIDELIGHT WIDTH	TRANSOM HEIGHT	HEAD	JAMB	SILL	SPECIAL	LOCKSET / LATCHS	CLOSER	MISC.	THRESHOLD	DOOR NUMBER	REMARKS
																		104A	
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REMARKS
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Н	Issues / Revisions No. Date Description 12/1/2023 50% CD DOCUMENTS
_	
J	Drawing Title
_	SCHEDULES, ELEVATIONS AND DETAILS
К	Project Manager:PMProject No: NBR02AR.01Project Architect:PAProduction Leader:PLProject Designer:IDPeer Reviewer:PRDrawing NumberAgg.100

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(K9) FINISH & FINISH FLOORING PLAN 1/8" = 1'-0"

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FINISHES LEGEND NEW CONSTRUCTION EXISTING ITEMS HATCH DENOTES ETR=EXISTING TO REMAIN MILLWORK ROOM NAME - PT1 - ACCENT WALL TAG -WALL WALL FINISH / MATERIAL INDICATES LOCATION OF ACCENT WALL (WHEN FLOOR • - WALL BASE MATERIAL MULTIPLE COLORS IDENTIFIED IN ONE ROOM) FLOORING MATERIAL TRANSITION **GENERAL NOTES - FINISHES** 1. FOR ROOMS WITH MULTIPLE WALL FINISHES CALLED OUT REFER TO INTERIOR ELEVATIONS. FOR ROOMS WITH MULTIPLE FLOORING FINISHES CALLED OUT REFER TO FINISH DETAIL PLANS.

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- 2. FOR INTERIOR PAINT FINISHES: ALL INTERIOR WALLS TO BE EGGSHELL FINISH, UNLESS EPOXY FINISH IS NOTED. • ALL DOOR AND WINDOW FRAMES TO BE SEMI-GLOSS FINISH. • ALL GYPSUM BOARD CEILINGS TO BE PAINTED TO BE FLAT FINISH. ALL PAINTED METAL TO BE SEMI-GLOSS FINISH, UNLESS EPOXY FINISH IS
- 3. ALL EXPOSED COLUMNS THAT ARE NOT INCORPORATED IN A WALL ARE TO BE PAINTED PT-1, UNLESS OTHERWISE NOTED. EXPOSED STRUCTURE THAT IS
- INCORPORATED IN A WALL IS TO BE PAINTED TO MATCH ADJACENT WALL. 4. FLOOR FINISHES TO EXTEND UNDER CASEWORK AND SPECIALTY/FIREMATIC EQUIPMENT.
- 5. INSTALL SCHEDULED FLOOR FINISH UP AND ONTO ALL RAISED SLAB LOCATIONS.

FINISHS FLOORING LEGEND _____

SC-1

ETR

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NOTED.

MATERIALS LIST CONCRETE SEALER CS-1 ITEM: SEALED CONCRETE SHERWIN WILLIAMS MFR: 2 COATS OF RESUFLO AQUA 3477 PRODUCT: EPOXY WATER EMULSION PRIMER/SEALER,CLEAR

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REFER TO HEADQUARTERS BUILDING SET FOR ADDITIONAL ELECTRICAL & TECHNOLOGY SCHEDULES, DETAILS, NOTES

SURFACE MOUNTED PANELBOARD	
RECESSED PANELBOARD	
-USED DISCONNECT SWITCH	
MOTOR STARTER OR CONTACTOR	
MANUAL MOTOR STARTER	
MOTOR (REFER TO MOTOR CIRCUIT SCHEDULE FOR POWER REQUIREMENTS)	
TRANSFORMER	
ELECTRICAL METER	
SURGE PROTECTIVE DEVICE	
ARIABLE FREQUENCY DRIVE	
BRANCH CIRCUIT WIRING, CONCEALED IN WALLS OR CEILINGS	
SWITCHED BRANCH CIRCUIT WIRING	
POKE-THRU DEVICE. SUPERSCRIPT '#' INDICATES TYPE. REFER TO	
FLOOR BOX DEVICE SCHEDULE FOR TYPE. FLOOR BOX. SUPERSCRIPT '# INDICATES TYPE. REFER TO FLOOR BOX DEVICE SCHEDULE FOR TYPE. JUNCTION BOX	
SURFACE MOUNTED RACEWAY RISER TO NEAREST ACCESSIBLE CEILING	
SIMPLEX WALL MOUNTED RECEPTACLE, 18" AFF UNLESS OTHERWISE	
NUTED DUPLEX WALL MOUNTED RECEPTACLE, 18" AFF UNLESS OTHERWISE	
NOTED DUPLEX WALL MOUNTED RECEPTACLE, HALF SWITCHED DUPLEX WALL MOUNTED RECEPTACLE, ON CRITICAL BRANCH OF GENERATOR POWER	
DUPLEX GFCI-TYPE WALL MOUNTED RECEPTACLE FOR WASHING MACHINE. MOUNT 48" AFF UNLESS OTHERWISE NOTED.	
DUPLEX WALL MOUNTED RECEPTACLE FOR MICROWAVE. COORDINATE WITH MICROWAVE LOCATION. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCH PRIOR TO ROUGH-IN.	
DUPLEX WALL MOUNTED RECEPTACLE FOR DISHWASHER. MOUNT 18" AFF UNLESS OTHERWISE NOTED. CONNECT TO GFCI BREAKER IN PANELBOARD.	
DUPLEX WALL MOUNTED RECEPTACLE FOR REFRIGERATOR. MOUNT 48" AFF UNLESS OTHERWISE NOTED. CONNECT TO GFCI BREAKER IN PANELBOARD.	
DUPLEX WALL MOUNTED RECEPTACLE FOR ELECTRIC WATER COOLER. MOUNT 18" AFF UNLESS OTHERWISE NOTED. CONNECT TO GFCI BREAKER IN PANELBOARD.	
AFF UNLESS OTHERWISE NOTED.	
DUPLEX WALL MOUNTED RECEPTACLE MOUNTED AT XX" ABOVE FINISHED FLOOR	
DOUBLE DUPLEX WALL MOUNTED RECEPTACLE, 18" AFF UNLESS DTHERWISE NOTED	
RECEPTACLE, MOUNT 6" ABOVE COUNTER OR CASEWORK	
RECEPTACLE MOUNTED BELOW FRONT OF COUNTER	
RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTION	
RECEPTACLE WITH WEATHERPROOF COVER	
RECEPTACLE, CEILING MOUNTED	
WITH (1) USB-A AND (1) USB-C, 5-AMP CHARGING PORT.	
AND PROVIDE DROP-DOWN CORD REEL DEVICE WITH PENDANT 5-20R DUPLEX RECEPTACLE AT END OF CORD, UNLESS OTHERWISE NOTED.	
PROVIDE DUPLEX WALL MOUNTED RECEPTACLE, HALF SWITCHED. PROVIDE ONE FULLY SWITCHED DUPLEX RECEPTACLE AND ONE JNSWITCHED DUPLEX RECEPTACLE. WIRE UNSWITCHED RECEPTACLE TO LINE SIDE OF CONTROLS IN ROOM.	-
HARDWIRED 20A/1P CONNECTION TO RANGE HOOD. MAKE FINAL	
HARDWIRED 20A/2P CONNECTION TO HAND DRYER. MAKE FINAL	
SPECIAL PURPOSE RECEPTACLE, NEMA CONFIGURATION AND WIRING	
NEMA 14-50R RECEPTACLE FOR ELECTRIC RANGE. PROVIDE 3#8, #10G,	
NEMA 14-30R RECEPTACLE FOR ELECTRIC DRYER. PROVIDE 3#10, #10G, 3/4"C. TO INDICATED BREAKER IN PANEL. (2 HOT, 1 NEUTRAL, 1 GROUND)	
JUNCTION BOX FOR BUILDING MANAGEMENT SYSTEM LOCATED ABOVE CEILING. PROVIDE 20A/1P DEDICATED CIRCUIT. COORDINATE EXACT	
PLUG LOAD CONTROLLER FOR AUTOMATIC RECEPTACLE SHUTOFF, TIED INTO LIGHTING CONTROL SYSTEM. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION. CONTROLLED RECEPTACLES	
DUPLEX RECEPTACLE WITH (1) USB-A AND (1) USB-C, 5-AMP CHARGING PORT. MOUNT ADJACENT TO "AVD" WALL BOX SHOWN ON PLANS.	
DUPLEX RECEPTACLE WITH (1) USB-A AND (1) USB-C, 5-AMP CHARGING PORT. MOUNT WITHIN SAME RECESSED BACKBOX AS "MON" DATA	
DEVICE SHOWN ON PLANS.	-
DUCKDINATE EXACT LOCATION WITH HVAC CONTRACTOR.	
COUKTOP, MOUNTED 6" ABOVE TOP OF COUNTER.	
EQUIPMENT SHUTOFF DETAIL FOR ADDITIONAL INFORMATION.	

ELECTRICAL SYMBOLS

DESCRIPTION

	LIGHTING SYMBOLS	
SYMBOL	DESCRIPTION	SYMBOL
<u>ب</u>	POLE MOUNTED SITE LIGHTING FIXTURE	EQUIPMENT
H	EXTERIOR BUILDING MOUNTED LIGHTING FIXTURE	EAS
$+ \blacksquare$	EXTERIOR BUILDING MOUNTED EMERGENCY LIGHTING FIXTURE	EMS
0	SURFACE MOUNTED LIGHTING FIXTURE	EACP
	SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE	
• •	PENDANT MOUNTED LIGHTING FIXTURE	
۰	PENDANT MOUNTED EMERGENCY LIGHTING FIXTURE	FATP
	RECESSED LIGHTING FIXTURE	
	RECESSED EMERGENCY LIGHTING FIXTURE	INITIATING DEVICES
 ● ●	INDUSTRIAL OR STRIP TYPE FIXTURE	S
$\nabla \ \nabla \ \nabla$	TRACK LIGHTING, HEADS AS INDICATED ON DRAWINGS	S _{SB}
$\widehat{\bigcirc}$	RECESSED WALL WASH FIXTURE	SB/CO
\oslash	RECESSED DOWNLIGHT FIXTURE	<u>S</u> 520
	RECESSED DOWNLIGHT EMERGENCY FIXTURE	$\langle s \rangle$
0	SURFACE MOUNTED ROUND FIXTURE	Н
igodot	SURFACE MOUNTED ROUND EMERGENCY FIXTURE	H
\odot	PENDANT HUNG LIGHTING FIXTURE	S/D
	PENDANT HUNG EMERGENCY LIGHTING FIXTURE	SD FSD
	WALL SCONCE	F
	EMERGENCY WALL SCONCE	(H)
	WALL MOUNTED LIGHTING FIXTURE	
	WALL MOUNTED EMERGENCY LIGHTING FIXTURE	NOTIFICATION
μ	WALL MOUNTED EXIT SIGN, DOUBLE FACED	<u>NOTIH IOATION</u>
μ	WALL MOUNTED EXIT SIGN	
\bigotimes	CEILING MOUNTED EXIT SIGN	■ XX
	CEILING MOUNTED EXIT SIGN, DOUBLE FACED	XX
	SELF CONTAINED EMERGENCY LIGHTING FIXTURE WITH BATTERY	×x c
	SELF CONTAINED EMERGENCY LIGHTING FIXTURE WITH REMOTE CAPABILITY	□
$\bigtriangleup_{\downarrow}$	REMOTE EMERGENCY HEAD	O B
12	REMOTE DUAL HEAD EMERGENCY LIGHTING FIXTURE	
EB	EMERGENCY BATTERY UNIT FOR USE WITH REMOTE LIGHTING HEADS	
R	UL924 EMERGENCY LIGHTING RELAY. REFER TO EMERGENCY LIGHTING DETAILS FOR ADDITIONAL INFORMATION.	
PC	LIGHT SENSING PHOTOCELL / DAYLIGHT SENSOR	
RCN	ROOM CONTROLLER FOR NORMAL POWER LOW VOLTAGE CONTROLS. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION.	
RCE	ROOM CONTROLLER FOR EMERGENCY POWER LOW VOLTAGE CONTROLS. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION.	MISCELLANEOUS
PP	POWER PACK FOR STANDALONE CONTROLS. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION.	
	LIGHTING AREA CONTROLLER - REFER TO LIGHTING CONTROL NETWORK DETAIL	(FS)

FIRE ALARM LEGEND ELECTRICAL GENERAL NOTES

- BRANCH CIRCUITS AND FEEDER CIRCUITS SHALL BE CONCEALED IN WALLS AND ABOVE CEILINGS WHERE POSSIBLE, INCLUDING HOMERUNS TO PANELBOARDS. BRANCH CIRCUITS AND FEEDERS SHALL
- NOT BE ROUTED IN OR UNDER SLAB UNLESS SPECIFICALLY INDICATED ON ELECTRICAL FLOOR PLANS OR DETAILS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. BRANCH CIRCUITS SHALL BE 2#12,#12G.,3/4"C., TO NEW 20A/1P CIRCUIT BREAKER IN PANEL INDICATED
- UNLESS NOTED OTHERWISE. 120V, 1-PHASE, 20A BRANCH CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE 2#10,#10G., 3/4"C. UNLESS
- NOTED OTHERWISE 277V, 1-PHASE, 20A BRANCH CIRCUITS EXCEEDING 250' IN LENGTH SHALL BE 2#10,#10G., 3/4"C. UNLESS NOTED OTHERWISE.
- DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED
- ELECTRICAL DEVICES. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF WALL MOUNTED ELECTRICAL DEVICES. PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF PENETRATIONS THROUGH FIRE WALLS OR
- SMOKE BARRIERS AS REQUIRED. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALLS. COORDINATE LOCATIONS OF ELECTRICAL DEVICES AND CONTROLS WITH RESPECT TO LOCATIONS OF CASEWORK AND EQUIPMENT PRIOR TO ROUGH-IN.
- WHEN DEVICES ARE SHOWN ON PLANS OFFSET FROM ONE ANOTHER, DEVICES SHALL BE MOUNTED IN LINE, CENTERED ON WALL. SHARED NEUTRAL WIRING IS NOT ACCEPTABLE, UNLESS NOTED OTHERWISE ON DRAWINGS. PROVIDE
- A DEDICATED NEUTRAL WIRE FOR EACH CIRCUIT. WHERE APPLICABLE DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE ELECTRICAL DRAWINGS. FIELD CONDITIONS AND ARCHITECTURAL ELEVATIONS AND DIMENSIONS SHALL GOVERN EXACT LOCATION AND
- MOUNTING HEIGHTS OF ELECTRICAL DEVICES AND RACEWAYS. FINISHES AND COLOR OF ELECTRICAL WIRING DEVICES, EXPOSED RACEWAY, LIGHT FIXTURES, AND OTHER ELECTRICAL DEVICES SHALL BE DETERMINED BY THE ARCHITECT.
- ELECTRICAL WORK SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE (OTHER THAN ROOF 14. THE ÉLECTRICAL CONTRACTOR SHALL PERFORM CORES REQUIRED FOR ELECTRICAL WORK.
- 15 BUILDING WIRE AND CABLE NOT IN RACEWAY SHALL BE PLENUM RATED PROVIDE SURFACE MOUNTED RACEWAY FOR NEW DEVICES LOCATED ON EXISTING TO REMAIN CMU OR MASONRY WALLS, UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING SURFACE MOUNTED RACEWAY APPLICATIONS AND WIRING METHODS.

ELECTRICAL LIGHTING NOTES

- REFER TO DRAWING E6.00 (HQ BUILDING SET) FOR LIGHTING FIXTURE SCHEDULE. EXIT SIGNS AND EMERGENCY BATTERY UNITS SHALL BE WIRED TO LINE SIDE OF LOCAL LIGHTING BRANCH CIRCUIT. AHEAD OF ALL SWITCHING DEVICES.
- EMERGENCY LIGHTING RELAY LOCATIONS ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL INSTALL RELAYS ABOVE NEAREST ACCESSIBLE CEILING, OR IN NEAREST STORAGE ROOM/ UTILITY
- SPACE, AND SHALL COORDINATE LOCATION WITH OTHER TRADES. REFER TO EMERGENCY LIGHTING WIRING SCHEMATICS FOR ADDITIONAL INFORMATION. REFER TO DRAWINGS E5.00 & E5.01 (HQ BUILDING SET) FOR TYPICAL LIGHTING CONTROL WIRING SCHEMATICS.

ELECTRICAL POWER NOTES

- REFER TO DRAWING E6.00 (HQ BUILDING SET) FOR MOTOR/ EQUIPMENT CIRCUIT SCHEDULE. RECEPTACLES LOCATED WITHIN 6' FROM WATER SOURCES SHALL BE GFCI TYPE. ELECTRICAL CONTRACTOR SHALL PROVIDE (1) -2" CONDUIT SLEEVE INTO EACH ROOM SHOWN WITH
- COMMUNICATIONS DEVICE(S). LOCATE ABOVE CEILING WHERE POSSIBLE SOUND SYSTEM EQUIPMENT SHALL BE POWERED OFF THE SAME PHASE OF SOURCE PANELBOARD.
- 15A AND 20A. 120V AND 250V NON-LOCKING TYPE RECEPTACLES MOUNTED BELOW 5'-6" AFF SHALL BE LISTED TAMPER-RESISTANT TYPE IN ACCORDANCE WITH NEC 406.12.

ELECTRICAL TECHNOLOGY NOTES

- COORDINATE POWER REQUIREMENTS TO ALL CONTROLLERS AND POWER SUPPLIES WITH THE SYSTEM PROVIDER AND THE ELECTRICAL SERIES DRAWINGS. COORDINATE POWER REQUIREMENTS, RECOMMENDED WIRE SIZES AND EXACT POINTS OF
- CONNECTION FOR ELECTRIC LOCKING HARDWARE PROVIDED BY DIVISION 08 CONTRACTOR PRIOR TO INSTALLATION. COORDINATE WITH DOOR HARDWARE SCHEDULES AND SPECIFICATIONS.
- REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF CEILING MOUNTED DEVICES. COORDINATE ALL WALL MOUNTED DEVICE LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH-IN COORDINATE AIMING OF ALL CAMERAS WITH THE OWNER AFTER SUBSTANTIAL COMPLETION AND
- BEFORE TURNOVER. PRIOR TO ROUGH-IN. COORDINATE ALL AUDIOVISUAL AND TELECOMMUNICATIONS DEVICE BACKBOX LOCATIONS WITH OWNER-PROVIDED PROJECTION AND VISUAL DISPLAY EQUIPMENT.
- DEVICES LOCATED IN GYMNASIUMS, LOADING DOCKS OR SIMILAR AREAS SUBJECT TO PHYSICAL DAMAGE SHALL BE PROVIDED WTIH PROTECTIVE GUARDS OR COVERS SUITABLE FOR THE LOCATION OR APPLICATION, AND COMPATIBLE WITH EACH DEVICE. COVERS SHALL IN NO WAY AFFECT OR
- REDUCE PERFORMANCE OF RADIO AND/OR WIRELESS DEVICES. DEVICES SHOWN ON THESE DRAWINGS SHALL BE COORDINATED WITH DIVISION 26 SPECIFICATIONS FOR PROVISIONS OF RELATED INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO: HANGERS,
- SUPPORTS, CONDUITS, BACKBOXES AND OTHER RACEWAYS INSTALLATION OF TELECOMMUNICATIONS CONDUITS. RACEWAY AND BENDS SHALL MEET TIA RECOMMENDED INSTALLATION METHODS AND GUIDELINES. CONDUIT BENDS SHALL BE PROVIDED WITH
- SMOOTH SWEEPS AND BEND RADII TO MEET MANUFACTURER RECOMMENDED TOLERANCES FOR EACH CABLE THAT WITH BE ROUTED WITHIN. A MINIMUM OF SIX(6) FEET OF SLACK SHALL BE PROVIDED FOR EACH HORIZONTAL CABLE DROP AT
- WORK AREA OUTLETS. COILED AND SECURED ABOVE ACCESSIBLE CEILING. IN AREAS WITHOUT AN ACCESSIBLE CEILING, PROVIDE CABLING COILED TIGHT TO STRUCTURE ABOVE. PROVIDE CALIBRATION, OPTIMIZATION, PROGRAMMING AND FINAL ADJUSTMENTS FOR SECURITY
- DEVICES SPECIFIED HEREIN. EXPOSED TELECOMMUNICATIONS AND SECURITY CABLING SHALL BE ROUTED IN CONDUIT, ADHERING TO DIVISION 26 SPECIFICATIONS.

ELECTRICAL DEMOLITION NOTES

- EXISTING ELECTRICAL DEVICES IN REGIONS OF DEMOLITION SHALL BE REMOVED UNLESS NOTED OTHERWISE. INCLUDING BUT NOT LIMITED TO PANELBOARDS, RECEPTACLES, LIGHT FIXTURES, LIGHTING CONTROLS. TRANSFORMERS. TELECOMMUNICATION DEVICES. FIRE ALARM DEVICES. SECURITY DEVICES, AND MECHANICAL EQUIPMENT CONNECTIONS. REMOVAL SHALL BE COMPLETE
- INCLUDING BOXES, BRACKETS, HANGERS AND BRANCH CIRCUIT WIRING BACK TO SOURCE PANELBOARD OR LAST ACTIVE DEVICE TO REMAIN. ELECTRICAL DEMOLITION PLANS ARE DIAGRAMMATIC AND NOT INTENDED TO DEPICT THE ENTIRE SCOPE OF ELECTRICAL DEMOLITION. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING
- DEVICES. ADDITIONAL DEMOLITION AND MODIFICATION WORK NOT SHOWN SHOULD BE ANTICIPATED. DEMOLITION OF EXISTING TELECOMMUNICATIONS DEVICES SHALL INCLUDE REMOVAL OF CONNECTORS, FACEPLATE, BACKBOX, CONDUIT AND WIRING BACK TO SOURCE.
- DEMOLITION OF EXISTING SECURITY AND FIRE ALARM DEVICES SHALL INCLUDE REMOVAL OF DEVICE. CONNECTORS, MOUNTING HARDWARE, BACKBOX, CONDUIT AND WIRING BACK TO SOURCE OR LAST ACTIVE DEVICE TO REMAIN. DEMOLITION OF EXISTING LIGHTING FIXTURES SHALL ALSO INCLUDE REMOVAL OF ASSOCIATED
- SWITCHES AND SWITCHED WIRING UNLESS OTHERWISE NOTED IN NEW WORK PLANS. LOCATIONS OF ALL SWITCHES SHALL BE FIELD VERIFIED PRIOR TO DEMOLITION. REFER TO MECHANICAL/PLUMBING DEMOLITION DRAWINGS FOR EXISTING MECHANICAL AND PLUMBING EQUIPMENT TO BE REMOVED. FOR THIS EQUIPMENT. DISCONNECT AND REMOVE WIRING
- BACK TO SOURCE AND REMOVE ASSOCIATED STARTERS, DRIVES AND DISCONNECT SWITCHES AT EQUIPMENT LOCATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL ITEMS TO BE REMOVED IN A SAFE,
- LEGAL AND RESPONSIBLE MANNER. CONTRACTOR SHALL MODIFY EXISTING CIRCUITS, WHEN EXISTING DEVICES ARE REMOVED, AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY. PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT
- WILL AFFECT WORK TO BE PERFORMED. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY IDENTIFIED BY EXPERIENCED OBSERVERS. INCLUDE IN THE BID ALL DEMOLITION WORK REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE AND HANDLING OF EXISTING TO BE RELOCATED EQUIPMENT AND DEVICES. EXISTING FIRE ALARM SYSTEM SHALL BE MODIFIED IN AREA OF WORK AND BE MAINTAINED OUTSIDE
- OF AREA OF WORK. MAINTAIN OPERATION OF THE EXISTING FIRE ALARM SYSTEM DURING DEMOLITION. DEVICES ARE TO BE REMOVED BACK TO NEXT DEVICE OUTSIDE THE AREA OF WORK. EXTEND CIRCUITS WITH WIRING TO MATCH EXISTING CLASS AND STYLE TO MAINTAIN CONTINUITY OF CIRCUITS UPSTREAM AND DOWNSTREAM OF THE WORK AFFECTED BY DEMOLITION. PROTECT EXISTING DEVICES DURING CONSTRUCTION. TAKE DEVICES OFF-LINE IF NECESSARY, COORDINATE BYPASSING AND REACTIVATION OF THESE DEVICES WITH OWNER. PROVIDE TESTING AND
- REPROGRAMMING OF SYSTEM, AND COORDINATE ACCEPTANCE TESTING WITH THE LOCAL AHJ. BRANCH CIRCUITS THAT ARE EXISTING TO REMAIN OR TO BE RELOCATED IN PANELBOARDS THAT ARE BEING DEMOLISHED SHALL BE LABELED TO INDICATE WHAT THEY ARE SERVING (BASED ON EXISTING
- PANELBOARD DIRECTORY). PANELBOARDS THAT ARE EXISTING TO REMAIN SHALL HAVE THEIR DIRECTORY UPDATED TO INDICATE CIRCUITS THAT ARE EXISTING TO REMAIN CIRCUITS THAT HAVE BEEN REMOVED AS PART OF DEMOLITION SHALL BE INDICATED IN THE REVISED DIRECTORY AS SPARES.
- WHERE EXISTING LIGHT FIXTURES ARE SCHEDULED FOR RELOCATION, RECONFIGURATION OR REINSTALLATION IN NEW CEILINGS. CLEAN, RE-LAMP (IF APPLICABLE) AND TEST THE FIXTURES. REPLACE DAMAGED LENSES AND DEFECTIVE BALLASTS OR DRIVERS AS NEEDED.
- REPLACE BATTERIES FOR EMERGENCY LIGHTING UNITS THAT ARE SCHEDULED TO BE RELOCATED AND REINSTALLED.

DUCT MOUNTED SMOKE DETECTOR AND HOUSING SMOKE OR FIRE/SMOKE DAMPER WITH ASSOCIATED DUCT SMOKE DETECTOR. PROVIDE ALL ITEMS LISTED AS BY DIVISION 26 AND BY DIVISION 28 IN ELECTRICAL SMOKE DAMPER DETAIL. PROVIDE WITH ONE DUCT SMOKE DETECTOR UNLESS OTHERWISE NOTED.

DESCRIPTION

EMERGENCY 2-WAY COMMUNICATION SYSTEM AREA CALL STATION.

REFER TO 2-WAY COMMUNICATION SYSTEM WIRING DIAGRAM FOR

EMERGENCY 2-WAY COMMUNICATION SYSTEM MASTER STATION.

REFER TO 2-WAY COMMUNICATION SYSTEM WIRING DIAGRAM FOR

ADDITIONAL INFORMATION.

ADDITIONAL INFORMATION.

FIRE ALARM CONTROL PANEL

FIRE ALARM TRANSPONDER PANEL

CEILING MOUNTED SMOKE DETECTOR

SOUNDER BASE

SYSTEM

520HZ SOUNDER BASE

RISE HEAT DETECTOR

CEILING MOUNTED SMOKE DETECTOR WITH SOUNDER BASE

CEILING MOUNTED SMOKE DETECTOR WITH CARBON MONOXIDE

CEILING MOUNTED SMOKE DETECTOR WITH LOW FREQUENCY

CEILING MOUNTED SMOKE DETECTOR WIRED TO ELEVATOR RECALL

CEILING MOUNTED HEAT DETECTOR WITH TEMPERATURE RATING

CEILING MOUNTED COMBINATION FIXED TEMPERATURE / RATE-OF-

OF 135 DEGREES UNLESS OTHERWISE NOTED

FIRE ALARM REMOTE ANNUNCIATOR PANEL

WALL MOUNTED FIRE ALARM MANUAL PULL STATION. MOUNT AT 48" AFF HEAT DETECTOR FOR ELEVATOR RECALL CONTROLS

CEILING MOUNTED CARBON MONOXIDE DETECTOR

WALL MOUNTED COMBINATION SPEAKER / STROBE LIGHT WITH A MULTI-CANDELA STROBE. MOUNT AT 6'-8" AFF. WG= PROVIDE WITH WIREGUARD "XX"=CANDELA RATING WALL MOUNTED STROBE-ONLY UNIT WITH A MULTI-CANDELA STROBE. MOUNT AT 6'-8" AFF. WG= PROVIDE WITH WIREGUARD. "XX"=CANDELA RATING

CEILING MOUNTED COMBINATION SPEAKER/STROBE LIGHT WITH A MULTI-CANDELA STROBE. "XX"=CANDELA RATING

CEILING MOUNTED STROBE-ONLY UNIT WITH A MULTI-CANDELA STROBE. "XX"=CANDELA RATING

EXTERIOR SPRINKLER BELL. PROVIDE 20A/1P CIRCUIT.

FIRE ALARM MONITOR MODULE

FIRE ALARM CONTROL MODULE

FIRE ALARM RELAY MODULE

REMOTE DUCT SMOKE DETECTOR TEST SWITCH

FIRE PROTECTION TAMPER SWITCH AND FIRE ALARM MONITOR

FIRE PROTECTION FLOW SWITCH AND FIRE ALARM MONITOR MODULE

FIRE PROTECTION PRESSURE SWITCH AND FIRE ALARM MONITOR MODULE

_	12	11		10				9
							GAS	SYSTEM
A				GAS SYSTEM (THESE GENER	GENERAL N	OTES ARE APPLIC	CABLE TO A	LL PLUMBING DR
				1. DRAWING ADDITION REQUIREN	S ARE DIAC AL INFORM MENTS. GA	GRAMMATIC ATION. ALL S WATER H	CAND SHO GAS PIPIN EATERS, G	W GENERAL INTE G SHALL BE INST ENERATORS (FO
_				2. PLUMBING			CODE (NFP REVIEW D	a 58-1995) and C Rawings of the Of his work fo
				3. THE PLUM	IBING CON	TRACTOR IS	S RESPONS	SIBLE FOR PROVI
				TO AIR HA BACKFLO HVAC DRA	ANDLING UN W PREVEN AWINGS FC	NITS, FAN C TERS, REG R ADDITION	OIL UNITS, ULATORS, I NAL INFORM	UNIT HEATERS, E JNIONS, TRAPS, A ATION AND COO
В				4. THE PLUN JOINT LOO	IBING CON CATIONS AS	TRACTOR S S REQUIREI	SHALL PRO' D PER BUIL	/IDE PIPE EXPAN DING CODES WHI
				AND STRU	JCTURAL D	RAWINGS F _VES THE F	FOR EXACT	BUILDING EXPAN
				BID, THE F CONDITIO THIS CON	PLUMBING	CONTRACT	OR SHALL	VISIT THE SITE AN ADES (STRUCTUF TIONS OF EXISTIN
_				NEW EQU JOB IS CC OMISSION	I HIS CON IPMENT. AL NSIDERED IS, OR ERR	L NEW EQU COMPLETE ORS MADE	JIPMENT AI E. THE PLUI AS A RESU	NECESSARY OFF ND SYSTEMS SHA MBING CONTRAC [®] LT OF THE CONT
				6. THE PLUM	CONDITION	IS AND THE	E CONTRAC SHALL COO	T DOCUMENTS O RDINATE WITH AL
				LOCATE A	ILL PIPING,	DUCTWOR	K, CONTRO	NLS, ETC. AND CO
С				THE SHUT EXISTING KEPT TO /	-DOWN OF SITE GAS I A MINIMUM	THE EXIST	ING PLUME DR TO COM	ING SYSTEMS FO
				8. THE INTER REPRESE		S IN DAILY (HIS SHALL	DPERATION	S MUST BE COOF ERVICE INTERRU
				9. GAS PIPIN	IG SHALL B	MENT, ETC. E SCHEDUI	E 40 BLAC	
_					D A UNION.	ALL OUTSI	, IT SHALL DE GAS PIF BE WELDET	ING SHALL BE GA
				IN ACCOR	DANCE WI	TH ASTM, A	WS, API, MI	L, ANSI, AND ASM
				STANDAR SUPPORT	D PRACTIC ED FROM 1	e for Pipe He Buildin	HANGERS	AND SUPPORTS URE IN A NEAT A
D				12. PORTIONS RUNNING	S OF GAS F THREADS.	IPING SYST		
				13. A VERTIC/ ACCORDA	NCE WITH	NFPA 54, S	ECTION 3.5	E RISER SHALL B .3. VENT SHALL N
				SHALL BE VENTS.	FITTED WI	TH AN AGA	APPROVE	
_				15. ALL BRAN BOTTOM.	CH OUTLE	F PIPES SHA	ALL BE TAK	EN FROM THE TO
				 USE DIELE INSPECT, 	ECTRIC UN	ONS WHER	RE DISSIMIL E GAS PIPIN	AR METALS ARE
_				REQUIRE	MENTS. MIN	IIMUM REQ	UIREMENTS	S SHALL BE 5 PSI
E							G	AS SOLENOID VA
_								
				MODEL NO	PIPE SIZE	ORIFICE SIZE	CV FLOW FACTOR	DIFFERENTIAL MIN./MAX.
			Ef	-8215G20	NORMALL	Y CLOSED (3/4"	CLOSED W	HEN DE-ENERGIZ 0 - 25 PSI
F			Ef	F8215G30 F8215B50*	3/4" 1"	3/4" 1-5/8"	5.1 21	0 - 25 PSI 0 - 25 PSI
			EF	-8215B60* -8215B70*	1-1/4" 1-1/2"	1-5/8" 1-5/8"	32 35	0 - 25 PSI 0 - 25 PSI
			EF	-8215B80* TE:	2"	2-3/32"	60	0 - 25 PSI
_			1. 2.	SEE KITCHEN E SOLENOID VAL WHICH MUST BI	LQUIPMEN VES MAY B E MOUNTE	E MOUNTE WITH THE	D IN ANY P SOLENOIE	RAWINGS FOR AL OSITION EXCEPT VALVE VERTICA
			3. 4.	ALL SOLENOID MANUFACTURE	VALVES SI ER SHALL B	HALL BE U.I E ASCO, FL	, F.M., ANI .ORHAM PA	D CGA RATED ANI RK NJ (800) 972-2
			5. I	APPROVED SO SIMET GARLAN	LENOID VA ID, TX. (972	LVE MANUF) 926-4601	ACTURER:	
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GENERAL NOTES

RAWINGS.

ENT OF WORK, SEE DETAILS, SCHEDULES AND SPECIFICATIONS FOR TALLED IN ACCORDANCE WITH NFPA 54, STATE, AND LOCAL CODE OR KITCHEN COOLERS AND HVAC EQUIPMENT), AND OTHER EQUIPMENT CMR

E OTHER TRADES AS PART OF THIS CONTRACT FOR ADDITIONAL OR OPERATIONS OR CONNECTIONS TO OTHER SYSTEMS.

IDING AND INSTALLING ALL SERVICES TO HVAC EQUIPMENT INCLUDING PIPING, COLD WATER SUPPLY PIPING, DRAINS, AND CONNECTIONS BOILERS, CHILLERS, ETC. ALSO, DEVICES REQUIRED INCLUDE AND SHUT-OFF VALVES REQUIRED FOR THIS EQUIPMENT. REFER TO ORDINATION.

ISION JOINTS ON PIPING PASSING THRU ALL BUILDING EXPANSION ETHER OR NOT SHOWN ON DRAWINGS. REVIEW ARCHITECTURAL NSION JOINT LOCATIONS AND EXPANSION DIMENSIONS.

S TO AN EXISTING FACILITY ON A NEW SITE. BEFORE SUBMITTING A ND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING PLUMBING RAL, MECHANICAL, ELECTRICAL, FIRE PROTECTION, SITE, ETC.). ING SYSTEMS REQUIRED FOR THE INSTALLATION OF THE NEW FSETS, TRANSITIONS, AND MODIFICATIONS REQUIRED TO INSTALL ALL BE FULLY OPERATIONAL UNDER THIS CONTRACT BEFORE THE TOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, FRACTOR'S FAILURE TO BECOME FULLY FAMILIAR WITH THE OF ALL TRADES.

LL OTHER TRADES CONTRACTORS THE ROUTING AND INSTALLATION THE GAS PIPING AND THEIR WORK. THE CONTRACTOR SHALL OORDINATE WITH NEW WORK BEING DONE.

CHEDULE (PREMIUM OFF-HOUR IF NECESSARY) WITH THE OWNER OR FINAL CONNECTION OF NEW GAS SERVICE OR CAPPING OF WORK SO THAT ANY DISRUPTIONS TO THE ACTIVE MAINS ARE

RDINATED IN ADVANCE WITH THE OWNER'S DESIGNATED JPTIONS, CONNECTIONS, AND DISRUPTIONS EFFECTING OTHER TRADES,

ITH MALLEABLE IRON FITTINGS. WHERE GAS PIPING CONNECTS % ITH A DRIP LEG THE FULL SIZE OF THE SUPPLY PIPE. A 100 ALVANIZED STEEL PIPE.

LARGER. WELDERS SHALL BE CERTIFIED AND ALL WORK SHALL BE ME STANDARDS. O THE REQUIREMENTS OF ANSI/MSS SP-58 REQUIREMENTS OF

- MATERIALS, DESIGN, AND MANUFACTURER. ALL PIPE SHALL BE AND WORKMANLIKE MANNER. LED LOCATIONS SHALL NOT HAVE UNIONS, TUBE FITTINGS, OR

BE VENTILATED AT THE TOP DIRECT TO THE OUTDOORS IN NOT BE PROXIMAL TO ANY BUILDING OPENING.

EGULATING DEVICES SHALL BE PIPED THE FULL OUTLET SIZE AND NSECT SCREEN. PROVIDE CAULKING OR PROPER FLASHING AT

OP OR SIDES OF THE HORIZONTAL LINES AND NOT FROM THE

JOINED TOGETHER.

CCORDANCE WITH NFPA 54 AND ALL STATE AND LOCAL CODE IG FOR A PERIOD OF 2 HOURS.

ALVE SCHEDULE GAS CAPACITY 1"W.C. DROP @ 2"W.C. INLET PRESSURE 1000BTU/CU. FT. OR WATT RATING/CLASS OF MORE COIL INSULATION 0.64 SP. GR. GAS BTU/HR. AC ZED) ALUMINUM BODY WITH BUNA "N" SEATING 11.6/F 238,500 247,500 11.6/F 14.9/F 1,119,000 14.9/F 1.730.000 14.9/F 1,900,000

14.9/F

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3,251,000 ADDITIONAL INFORMATION & REQUIREMENTS.

T VALVES DENOTED BY "*" CAL AND UPRIGHT.

ID APPROVED.

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2726 OR ENGINEERED APPROVED EQUAL.

GENERAL NOTES

<u>GENERAL</u> GENERAL NOTES, SYMBOLS AND DETAILS ARE APPLICABLE TO DRAWINGS WITHIN DIVISION

DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO INDICATE CAPACITY, SIZE, APPROXIMATE LOCATION AND GENERAL ARRANGEMENT. DETERMINE LOCATIONS OF

- SYSTEMS AND COMPONENTS IN FIELD. COORDINATE CONCRETE PADS AND STEEL PLATFORMS REQUIRED FOR PLUMBING WORK.
- 1. COORDINATE ROOF AND WALL PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS. COORDINATE SLAB PENETRATIONS WITH WORK OF OTHER SECTIONS.
- RUN PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS. COORDINATE WORK OF THIS SECTION WITH THAT OF OTHER SECTIONS AND WITH ALL
- TRADES INVOLVED. NOT ALL ACCESS DOORS HAVE BEEN SHOWN ON THE PLANS. PROVIDE ACCESS PANELS THROUGH BUILDING ASSEMBLIES TO SERVICE AND MAINTAIN EQUIPMENT UNLESS SUCH EQUIPMENT IS INSTALLED IN EXPOSED LOCATIONS OR ABOVE LAY-IN CEILINGS. COORDINATE THE LOCATION OF ACCESS DOORS AND PANELS AND VERIFY THE QUANTITY, SIZE, AND LOCATIONS AFTER THE SYSTEMS AND EQUIPMENT REQUIRING ACCESS HAVE BEEN INSTALLED AND PRIOR TO THE CLOSURE OF THE AFFECTED CEILINGS AND BUILDING ASSEMBLIES. SUBMIT ACCESS PANEL LOCATIONS FOR REVIEW.
- AT SUBSTANTIAL COMPLETION, THE FOLLOWING ITEMS, NEW OR EXISTING, SHALL BE FULLY AND REASONABLY ACCESSIBLE: CONTROL BOXES, JUNCTION BOXES, VALVES, DDC CONTROL BOXES, ELECTRICAL PANELS, CLEAN OUTS, DISCONNECT SWITCHES AND ELEMENTS OF EQUIPMENT REQUIRING MAINTENANCE. "FULLY AND REASONABLY ACCESSIBLE" SHALL BE DEFINED AS NATIONAL ELECTRIC CODE REQUIRED CLEARANCE FOR POWERED EQUIPMENT AND CAPABLE OF BEING ACCESSED OR SERVICED WITHOUT REMOVING, MODIFYING OR DISTORTING OTHER COMPONENTS OF THE WORK. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCE FOR ALL EQUIPMENT.
- VERIFY EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. VERIFY AND PROVIDE FITTINGS TO TRANSITION TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE DIMENSIONS BEFORE FABRICATION.
- IN COMPLIANCE WITH THE FEDERAL SAFE DRINKING WATER ACT (SDWA), THE CONTRACTOR SHALL NOT PROVIDE ANY COMPONENTS IN THE DOMESTIC WATER SYSTEM THAT CONTAIN MORE THAN 0.25% LEAD ON ANY WETTED PARTS. THE CONTRACTOR SHALL PROVIDE THE LEAD FREE EQUIVALENT OF ANY EQUIPMENT SPECIFIED AND PROVIDE A LETTER CERTIFYING THAT ALL PLUMBING PRODUCTS PROVIDED MEET THIS REGULATION.
- . IN THE EVENT THAT THERE ARE DISCREPANCIES BETWEEN PIPE SIZES SHOWN ON THE PLANS, DETAILS AND DIAGRAMS, THE LARGER PIPE SIZE SHALL BE PROVIDED.

PIPING SYSTEM SPECIFIC NOTES:

- PROVIDE ESCUTCHEONS AT EXPOSED PIPE PENETRATIONS OF CEILINGS AND WALLS 2. TOPS OF FLOOR DRAINS SHALL BE FLUSH WITH FINISHED FLOOR.
- PROVIDE SHUT-OFF VALVES ON BRANCH PIPING AND ON SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT.
- SUPPORT PIPING FROM STRUCTURE. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
- PROVIDE DRAIN WITH BALL VALVE, HOSE END VACUUM BREAKER, CAP AND CHAIN AT DOMESTIC WATER LOW POINTS AND PITCH PIPING TO DRAIN.
- PROVIDE ACCESSIBLE CLEANOUTS AT THE BASE OF STACKS.
- PLUMBING PIPING AND DRAINS SHALL BE PROTECTED FROM DEBRIS AND KEPT CLEAR OF BLOCKAGE DURING CONSTRUCTION.
- 8. PROVIDE DIELECTRIC FITTINGS WHEN JOINING PIPES OF DISSIMILAR METALS.
- 9. PROVIDE OFFSETS IN PIPING AROUND OBSTRUCTIONS.
- FIRESTOPPING NOTES: PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF PENETRATIONS THROUGH FIRE WALLS OR SMOKE BARRIERS INCLUDING BOTH EMPTY OPENINGS AND OPENINGS CONTAINING CABLES, PIPES, DUCTS, CONDUITS AND OTHER PENETRATING ITEMS. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALL RATINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 - PLUMBING DEMOLITION GENERAL NOTES
- THE PLUMBING CONTRACTOR SHALL REMOVE ALL PLUMBING FIXTURES, CARRIERS, TRIM, ACCESSORIES, EQUIPMENT, FLOOR DRAINS AND PIPING AS SHOWN OR INDICATED ON THE DRAWINGS.
- ALL PIPING TO BE REMOVED SHALL BE REMOVED COMPLETELY OR AS OTHERWISE SHOWN OR INDICATED ON DRAWINGS. ALL PIPE HANGERS, SLEEVES, RISER CLAMPS, ETC. SHALL BE REMOVED COMPLETELY WITH PIPING. NO EXISTING HANGER SYSTEMS SHALL BE REUSED FOR NEW PIPING.
- ALL PIPING TO BE REMOVED SHALL BE REMOVED TO BELOW FLOOR, ABOVE CEILING OR IN WALLS BACK TO MAINS OR SHUT OFF VALVES AT MAINS AND PROPERLY CAPPED PER CODE WITHOUT LEAVING DEAD ENDED PIPING. NO EQUIPMENT OR DEVICES THAT HAVE BEEN DISCONNECTED AND OR ABANDONED
- SHALL REMAIN. ALL EXISTING PIPING AND EQUIPMENT SHOWN HAS BEEN TAKEN FROM THE BEST AVAILABLE EXISTING INFORMATION. THE DRAWINGS ARE DIAGRAMMATIC AND ALL FIXTURES, PIPING, AND DEVICES MAY NOT BE SHOWN. THE INTENT OF THESE DRAWINGS IS THAT IN ALL AREAS OF RENOVATION THAT THEY ARE REMOVED, WHETHER OR NOT
- SHOWN (UNLESS INDICATED TO REMAIN). THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE
- EXISTING SYSTEMS AND CONDITIONS IN AREAS OF RENOVATION. ANY SYSTEMS OR EQUIPMENT TO REMAIN ACTIVE DURING RENOVATION SHALL BE KEPT IN OPERATION BY PROVIDING TEMPORARY PIPING CONNECTIONS AS REQUIRED UNTIL NEW
- SYSTEMS ARE INSTALLED AND OPERATIONAL. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE OWNER, CM, AND OR GENERAL CONTRACTOR ANY AND ALL PHASING OF THE PLUMBING DEMOLITION WORK IN ORDER TO SATISFY THE CONSTRUCTION SCHEDULE AND OWNERS OCCUPANCY REQUIREMENTS.
- THE PLUMBING CONTRACTOR SHALL ALSO REVIEW THE ARCHITECTURAL DEMOLITION DRAWINGS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION AND
- REQUIREMENTS.). ALL SERVICE INTERUPTIONS SHALL BE COORDINATED AND APPROVED WITH THE OWNER
- A MINIMUM OF 5 DAYS IN ADVANCE PRIOR TO COMMENCEMENT OF ANY WORK. . THE PLUMBING CONTRACTOR SHALL COORDINATE THEIR DEMOLITION WORK WITH THAT

OF OTHER TRADES IN ORDER TO AVOID CONFLICTS.

STORED TO PREVENT DAMAGE.

. ANY FIXTURE OR EQUIPMENT TO BE REMOVED AND REUSED OR RETURNED TO OWNER AT OWNERS REQUEST OR AS INDICATED ON DRAWINGS SHALL BE CAREFULLY REMOVED AND

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I 4 I	3	l 2 l	
GENERAL ABBREVIATIONS		DEMOLITION LEGEND	
	SYMBOL	DESCRIPTION	
ADJUSTABLE			
ABOVE FINISHED FLOOR ALTERNATE		DEWOLISH ALL FIXTORES AND FIFING WITHIN SCOPE	
AUTHORITY HAVING JURISDICTION		EXISTING DUCTWORK AND/OR PIPING	
		DEMOLISH EXISTING PIPING	
ACID WASTE BUILDING AUTOMATION SYSTEM			
BRITISH THERMAL UNIT	<u>RE</u>	RELOCATE EXISTING	
BOTTOM OF PIPE	ETR	EXISTING TO REMAIN	
CONDENSATE DRAIN CUBIC FEET PER HOUR		CONNECT TO EXISTING	
COLD WATER			
DOWN			
DOWN SPOUT NOZZLE DIRECT WASTE			
		PLUMBING PIPING LEGEND	
EMERGENCY EYEWASH/SHOWER	SYMBOL	L DESCRIPTION	
FLOOR CLEANOUT			
FINISHED FLOOR ELEVATION FINISHED GRADE CLEANOUT			
		HOT WATER	
FLOOR SINK			
FEET FEET HEAD	SAN-	SANITARY DRAIN/WASTE ABOVE FLOOR	
GAS GALLONS	SAN	SANITARY DRAIN/WASTE BELOW FLOOR	
GALLONS PER HOUR			
GAS SOLENOID VALVE			
GREASE WASTE GAS VENT	PST-	<pre>STORM ABOVE FLOOR (PRIMARY)</pre>	
HOSE BIB HOT WATER			
HEAD		STORM ABOVE FLOOR (SECONDARY)	
HERTZ	GGG		
HOT WATER RECIRCULATION INTERCEPTOR	GW	GREASE WASTE	
INVERT ELEVATION	G₩	GREASE WASTE BELOW FLOOR	
KILOWATT	TW-	TEMPERED WATER (65°F)	
MAXIMUM		PIPE RISE	
MECHANICAL THOUSAND BTU PER HOUR	⊃		
MINIMUM CIRCUIT AMPACITY MINIMUM		PIPE TEE TOWARDS (UP IN PLAN)	
NOT IN CONTRACT		PIPE TEE AWAY (DOWN IN PLAN)	
NOT TO SCALE			
OVERFLOW DRAIN OIL WASTE			
PUMPED CONDENSATE DRAIN PLUMBING		PIPE TRAP	
POUNDS PER SQUARE INCH GAUGE QUANTITY		DIRT LEG	
ROOF DRAIN REDUCED PRESSURE BACKFLOW PREVENTER ROOFTOP LINIT		I CO CLEANOUT	
SANITARY SQUARE FEFT		UNION OR FLANGE	
SOIL STACK		BLIND FLANGE	
SECONDARY STORM	[END CAP	
TEMPERATURE TEMPERED WATER			
TYPICAL VENT			

VENT THRU ROOF

VENT STACK WASTE WASTE STACK WASTE AND VENT

ADJ

AFF AI T

AHJ AP

AV

AW

BAS

BTU

BTUH BOP

CFH

CW

DIA

DN DSN

DW

ELEC

EWS

FCO

FGCO

FT WG

GALL

GPH GPM GSV

GV

HW

HD

H7

INT

IW

KW

LAV MAX

MBH MCA

MIN

NIC

NG

OD

NTS

OW PCD PLBG

PSIG QTY

RPBP RTU

TEMP

τw

TYP

VTR

WS W&V

SAN SQFT / SF

MECH

HWR

INV ELEV

FLA

FI D

AVTR

١	ALVE AND SYMBOL LEGEND
SYMBOL	DESCRIPTION
ындыы	BALL VALVE
် ၊ဝိ၊ (BALL VALVE WITH HOSE BIBB. CAP & CHAIN (DRAIN VALVES)
,	BUTTERFLY VALVE
	GLOBE VALVE
	GATE VALVE
	OS&Y VALVE
₩Ч₽н	PLUG VALVE
≻−−₽≥1	PRESSURE REDUCING VALVE
<u>}</u>	CHECK VALVE
, ⊢ 1 21,	Y-PATTERN STRAINER
	SOLENOID VALVE
$\vdash ~ \bigstar ~ \rightarrow$	AUTOMATIC CONTROL VALVE, MODULATING ACTUATOR
	AUTOMATIC CONTROL VALVE, TWO POSITION ACTUATOR
;∲}	THREE WAY AUTOMATIC CONTROL VALVE, MODULATING ACTUATOR
	THREE WAY AUTOMATIC CONTROL VALVE, TWO POSITION ACTUATOR
, 52 , ₽	COMBINATION SHUT OFF/BALANCING VALVE (CIRCUIT SETTER)
بن لا	SAFETY RELIEF VALVE
<u>ب م</u>	PRESSURE GAUGE
, ۳	THERMOMETER
HAR	DOUBLE CHECK VALVE ASSEMBLY
HAT TAT	REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY AND DRAIN
\otimes	GATE VALVE IN ROAD CURB BOX
\bigcirc	BACKWATER VALVE
\bigcirc	PUMP
M	WATER METER
) O	FLOOR DRAIN / FLOOR SINK / AREA DRAIN WITH PIPE TRAP
(\mathbf{O})	ROOF / OVERFLOW DRAIN
TP	TRAP PRIMER
GM	GAS METER
P	WATER HAMMER ARRESTOR
JIL ∎	VENT THRU ROOF
Ę.	ADA ACCESSIBLE FIXTURE

1 TYPICAL GAS CONNECTION TO EQUIPMENT DETAIL

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			KEYNOTES - P	LUMBING	

Keynote Text

Key Value

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_	12	l 11	I	10	Ι	9 I
		_				
		-	SYMBOL			
А		-	<u>× 12x6</u>	RECTANGULAR DUCTWORK		AD ACC ADJ ADJU AFF ABO
7.			12 "ø			AHJ AUT AP ACC CNV CON
			0 12/0 →	DUCTWORK SHOWN SINGLE LINE		APD AIR I AWT AVE BAS BUIL
			∑X ≽⊰	ACOUSTICALLY LINED DUCTWORK ACOUSTICALLY LINED DUCTWORK (SIN	GLE LINE)	BF BYP, BHP BRE BMS BUIL BTU BRI
_				RECTANGULAR SUPPLY DUCTWORK TO	OWARDS (UP IN PLAN)	BTUH BTU BOD BOT BOP BOT
				ROUND SUPPLY DUCTWORK TOWARDS	S (UP IN PLAN) WAY (DOWN IN PLAN)	CRD CEIL CAP CAP COP COE
				ROUND SUPPLY DUCTWORK AWAY (DC	OWN IN PLAN)	CHWS CHIL CHWR CHIL CFM CUB CUET CUB
В				RECTANGULAR RETURN DUCTWORK TO	OWARDS (UP IN PLAN) S (UP IN PLAN)	dB DEC DB DRY DDC DIRE
						DIA DIAM DN DOW DX DIRE
				RECTANGULAR EXHAUST DUCTWORK	TOWARDS (UP IN PLAN)	EA EXH. EAT ENT EDB ENT EFR ENE
					DS (UP IN PLAN) AWAY (DOWN IN PLAN)	ELEC ELEC ER EXIS ESP EXTI
_				ROUND EXHAUST DUCTWORK AWAY (E	DOWN IN PLAN)	ETR EXIS EWB ENT EWT ENT
			 1			FD FIRE FD FIRE FT FEE FT WG FEE
			y	CAPPED DUCT	SCREEN	FLA FULL FPM FEE FSD COM
С			<u>ур</u>	DUCT TRANSITION		GPH GAL GPM GAL GRD GRI
		Ļ				HD HEA HP HOR HSPF HEA HZ HER
		-	SYMBOL			HVAC HEA HWR HOT HWS HOT
_		-		SUPPLY DIFFUSER		IN INCH IN WG INCH IPLV INTE
				RETURN GRILLE OR REGISTER		L LOU LAT LEAN LDB LEAN
				EXHAUST GRILLE OR REGISTER		LWB LEAN LWT LEAN MAX MAX
D			╡ <u>─</u> ►	SIDEWALL SUPPLY GRILLE		MECH MEC MBH THO MCA MINI
D			4 V		LE OR REGISTER	NIC NOT NTS NOT OAT OUT
				LINEAR DIFFUSER		OD OUT OED OPE P PU
				CHILLED BEAM		PH PHA PLBG PLUI PRV PRE PSIG POU
_		Ļ				QTY QUA RA RET RPM REV
		-	SYMBOL) TION	RPZ RED RV RAD SA SUP SEER SEA
		-]	MANUAL VOLUME DAMPER		SG SIGH SP STA SPD STA
Е			FD	FIRE DAMPER W/ACCESS DOOR		SS STAT
				MOTORIZED CONTROL DAMPER W/A	CCESS DOOR	TSP TOT. TSTAT THE TYP TYP
			SD FSD	SMOKE DAMPER W/SMOKE DETECT COMBINATION FIRE/SMOKE DAMPER	OR AND ACCESS DOOR	UOI UNLI VAV VAR VFD VAR
_				AND ACCESS DOOR RADIATION DAMPER		W WITH W/O WITH W/O WITH
			BD	BACKDRAFT DAMPER		WC WAT WG WAT WMS WIR
			AVD	AUTOMATIC VOLUME DAMPER (PRE	SSURE INDEPENDENT)	X DEM
F						
I						
_						W
					F	1-1/2W
					L	
G					S	FULL RADIUS ELBOW UPPLY AND RETURN DUCTS
					Г	<u> </u>
					AIRFLOW	
_					Δ.	2 DrD SLOPE
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einrich.r						TAKE-OFF SUPPLY DUCTS ONLY
tion_qh					-	
Fire Sta						AIRFLOW
okfield					1/4W, 4"M	IN45°
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atus - N						SUPPLY DUCTS ONLY
- Appar						A
Central						
I-MEP					Δ	AIRFLOW D+D
-202344					<u>D>D</u>	
nts\R22					<u></u> 	<u>.</u> ONG RADIUS TEE PRI X DUCTS ONI X
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						GAS F	IRED I	JNIT H	EATE	R SCHE	EDULE									
		GENERAL			PHYS.		PERFORMANCE								ELECTRICAL	_	REMARKS			
							FURNACE				FAN									
TAG	MANUFACTURER	MODEL	LOCA	ATION	WEIGHT (LBS)	INPUT (MBH)	OUTPUT (MBH)	EFFIC. (%)	LAT (°F)	STAGES	CFM	RPM	SPEED	HP	VOLTAGE	PHASE	TYPE	RATINGS	FEATURES	INSTALL
UH-A	MODINE	PDP150AE01	REFER T PL/	O FLOOR ANS	185	15000	124500	83	51	1	2180	1625	931	1/8	240	1	1	1,2	1-6	-
	REMARK	S - TYPE	•		REMARKS - RATINGS						REMARKS - FEATURES					REMARKS - INSTALL				
1. NATUI FAN T	NATURAL GAS FIRED, POWER VENTED, PROPELLER FAN TYPE 2. RATI				CERTIFIED D AT 65°F W	/ITH 55°F TE	MPERATUR	E RISE		 ADJU DIREC CONT REL/ PRES HIGH PROC SYST 	STABLE DE CT SPARK IG FROL TRANS AY SSURE SWIT LIMIT SAFE GRAMMABLE EM SWITCH	FLECTOR BI GNITION SFORMER A TCH FOR VEI TY E THERMOS I AND AUTO	LADES ND LOW VOL NTING TAT WITH AL YON FAN SWI	.TAGE JTO/OFF ITCH						

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		GENERAL			PHY	SICAL		PE	RFORMANC	E		ACOUSTI	CAL DATA		ELEC	TRICAL			REM	ARKS	
TAG	MANUFACTURER	MODEL	LOCATION	SERVICE	WEIGHT (LBS)	DRIVE	CFM	ESP (IN WG)	RPM	DRIVE LOSS (%)	BHP	INLET SONES	OUTLET SONES	WATTS	HP	VOLTAGE	PHASE	TYPE	RATINGS	FEATURES	INSTALL
VEF-1	PLYMOVENT	TEV-585-60	APP BAY	APP BAY - VEHICLE EXHAUST SYSTEM	185	DIRECT	2727	8.5	3450	-	-	71	-	5595	7.5	208	3	1	1,2,3	1	-
RE	EMARKS - TYPE		REMARKS - RA	TINGS			REM	IARKS - FEAT	URES							REMARKS	- INSTALL				
1. CEN CLO VER ALUI CON	1. CENTRIFUGAL BLOWER, CLOCKWISE TOP VERTICAL ALL ALUMINUM CONSTRUCTION. 1. AIR PERFORMANCE CERTIFIED IN ACCORDANCE TO AMCA 211 2. SOUND PERFORMANCE CERTIFIED IN ACCORDANCE TO AMCA 311 3. UL LISTED				ALUMINUM FAN, NEMA RATED MOTOR ENCLOSURE, FOR USE WITH PRE-ENGINEERED VEHICHLE EXHAUSR SYSTEM.					1 I.											

							FAN	I SCHE	DULE												
	GENERAL						CAL PERFORMANCE				ACOUSTICAL DATA			ELECTRICAL			REMARKS				
TAG	MANUFACTURER	MODEL	LOCATION	SERVICE	WEIGHT (LBS)	DRIVE	CFM	ESP (IN WG)	RPM	DRIVE LOSS (%)	BHP	INLET SONES	OUTLET SONES	WATTS	HP	VOLTAGE	PHASE	TYPE	RATINGS	FEATURES	INSTALL
VEF-1	PLYMOVENT	TEV-585-60	APP BAY	APP BAY - VEHICLE EXHAUST SYSTEM	185	DIRECT	2727	8.5	3450	-	-	71	-	5595	7.5	208	3	1	1,2,3	1	-
RE	MARKS - TYPE		REMARKS - RA	TINGS			REM	IARKS - FEA	TURES							REMARKS	- INSTALL				
1. CEN CLO VER ALU CON	1. CENTRIFUGAL BLOWER, CLOCKWISE TOP 1. AIR PERFORMANCE CERTIFIED IN ACCORDANCE TO AMCA 211 2. SOUND PERFORMANCE CERTIFIED IN ACCORDANCE TO AMCA 311 3. UL LISTED				311	1. ALUMINUM FAN, NEMA RATED MOTOR ENCLOSURE, FOR USE WITH PRE-ENGINEERED VEHICHLE EXHAUSR SYSTEM.					1										

		GENERAL	
TAG	MANUFACTURER	MODEL	LOCATION
VEF-1	PLYMOVENT	TEV-585-60	APP BAY
RE	MARKS - TYPE		REMARKS - RAT
1. CEN	TRIFUGAL BLOWER,	1. AIR PERFORMAN	

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WATER COLOMIN WATER GAUGE WIRE MESH SCREEN WATER PRESSURE DROP

DEMOLISH

ONG RADIUS TEE JPPLY DUCTS ONLY L DUCT DETAILS

45° 1/4W, 4"MIN. SLOPE 1" IN 7" W TAKE-OFF RETURN DUCTS ONLY **-**______ AIRFLOW

1-1/2W

LONG RADIUS TEE RETURN DUCTS ONLY

8

- ____

7

AIRFLOW

SQUARE ELBOW SUPPLY AND RETURN DUCTS

	EQUIPMENT ABBREVIATIONS
AC ACCU AH AHU AS ASHP B CUH CF CH CB CHWP CF CH CB CHWP CT CRAC CP CWP CU CV DEF CHOP CU CV DEF CHOP CU CV DEF CHOP CU CV DEF CH DOB EUH EF EG F F COP FRP CU CV DEF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CH CF CF CH CF CF CH CF CH CF CH CF CH CF CF CH CF CH CF CH CF CF CF CH CF CH CF CF CF CH CF CF CF CH CF CF CF CH CF CF CF CH CF CF CF CF CF CF CF CF CF CF CF CF CF	AIR CONDITIONING UNIT AIR COOLED CONDENSING UNIT AIR HANDLER AIR HANDLER AIR HANDLER AIR SURCE HEAT PUMP BOILER CABINET UNIT HEATER CENTRIFUGAL SEPARATOR CHILLED BEAM CHILLED BEAM CHILLED WATER POMP COOLING TOWER COMPUTER ROOM AC UNIT CONDENSATE PUMP COOLING TOWER COMDENSING UNIT CONDENSATE PUMP CONDENSATE PUMP CONDENSING UNIT CONDENSATE PUMP CONDENSING UNIT DUCTLESS HATER VONTONING UNIT DUCTLESS HATER VONTONING UNIT DUCTLESS HATER VONTON ELECTRIC UNIT HEATER ELECTRIC UNIT HEATER ELECTRIC UNIT HEATER ENERGY RECOVERY VENTLATOR EXHAUST FAN EXHAUST FAN EXHAUST FAN EXHAUST FAN EXHAUST FAN EXHAUST FAN EXHAUST FAN EVENDUNT FUEL OIL PUMP FUEL OIL RETURN PUMP GLYCOL MAKE-UP UNIT HEAT EXCHANGER HOT WATER COIL HUMIDFIER HOT WATER COIL HUMIDFIER HATE AND FRAME HEAT EXCHANGER PUMP KITCHEN EXHAUST FAN LINEAR BAR GRILLE LINEAR AND RRAWE HEAT EXCHANGER PUMP SOUND ATTENUATOR SOUND ATTENUATOR SOUND ATTENUATOR STARP RESSURIZATION FAN SMOKE EXHAUST FAN UNIT HEATER SUPPLY GRILLE TOLET EXHAUST FAN UNIT HEATER WATER SOURCE HEAT PUMP

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PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF PENETRATIONS THROUGH FIRE	
OR SMOKE WALLS, BARRIERS AND PARTITIONS AS REQUIRED TO MAINTAIN RATING. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALL RATINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.	 GENERAL NOTES, STMBOLS AND DETAILS ARE APPLICABLE TO DRAWINGS WITHIN DIVISION 23. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS
DEMOLITION NOTES	 SPECIFIED, AND AS REQUIRED BY CODES. 3. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO INDICATE CAPACITY, SIZE, APPROXIMATE LOCATION AND GENERAL ARRANGEMENT. COORDINATE LOCATIONS OF
	SYSTEMS AND COMPONENTS.
 SITE VISIT: THIS PROJECT INVOLVES CONSTRUCTION INSIDE AN EXISTING STRUCTURE. BEFORE SUBMITTING BID, VISIT AND CAREFULLY EXAMINE SITE TO IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. NO EXTRA PAYMENT WILL BE ALLOWED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH 	 COORDINATE ROOF AND WALL PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS. COORDINATE SLAB PENETRATIONS WITH WORK OF OTHER SECTIONS.
SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY EXPERIENCED OBSERVER.	 RUN DUCTS AND PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE NOTED. INSTALL SENSORS (TEMPERATURE, HUMIDITY, CO2, THERMOSTATS) AT LOCATIONS SHOWN
2. PREPARATORY WORK: BEFORE STARTING WORK IN A PARTICULAR AREA OF THE PROJECT, VISIT SITE AND EXAMINE CONDITIONS UNDER WHICH WORK MUST BE PERFORMED INCLUDING PREPARATORY WORK DONE UNDER OTHER SECTIONS OR CONTRACTOR DRY OWNER DEPENDENT CONDITIONS THAT MIGHT AFFECT WORK ADVERSELY IN	ON PLANS OR AS DIRECTED BY ARCHITECT. MOUNTING HEIGHT AFF SHALL COMPLY WITH ADA AND SHALL BE MOUNTED LEVEL WITH ADJACENT SWITCHES (IE LIGHT SWITCHES).
WRITING TO ARCHITECT AND OWNER. DO NOT PROCEED WITH WORK UNTIL DEFECTS HAVE BEEN CORRECTED AND CONDITIONS ARE SATISFACTORY. COMMENCEMENT OF WORK SHALL BE CONSTRUED AS COMPLETE ACCEPTANCE OF EXISTING CONDITIONS AND	TRADES INVOLVED. PROVIDE OFFSETS IN PIPING AND DUCTS (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS.
 PREPARATORY WORK. 3. PHASING: DEMOLITION WORK SHALL COMPLY WITH THE PHASING REQUIREMENTS OF THE PROJECT AND BE COORDINATED WITH THE OWNER, ARCHITECT, CM AND ENGINEER. NO REMOVALS SHALL BE IMPLEMENTED WITHOUT A THOROUGH UNDERSTANDING OF THE PHASING REQUIREMENTS. 	8. NOT ALL ACCESS DOORS HAVE BEEN SHOWN ON THE PLANS. PROVIDE ACCESS PANELS THROUGH BUILDING ASSEMBLIES TO SERVICE AND MAINTAIN EQUIPMENT UNLESS SUCH EQUIPMENT IS INSTALLED IN EXPOSED LOCATIONS OR ABOVE LAY-IN CEILINGS. COORDINATE THE LOCATION OF ACCESS DOORS AND PANELS AND VERIFY THE QUANTITY, SIZE, AND LOCATIONS AFTER THE SYSTEMS AND EQUIPMENT REQUIRING ACCESS HAVE BEEN INSTALLED AND PRIOR TO THE CLOSURE OF THE AFFECTED CEILINGS AND BUILDING ASSEMBLIES. SUBMIT ACCESS PANEL LOCATIONS FOR REVIEW.
 ABANDONING OF DUCTWORK, PIPING OR EQUIPMENT IN PLACE WITHIN SCOPE AREA IS PROHIBITED. 	9. AT SUBSTANTIAL COMPLETION, THE FOLLOWING ITEMS, NEW OR EXISTING, SHALL BE FULLY AND REASONABLY ACCESSIBLE: HVAC CONTROL BOXES, JUNCTION BOXES, VALVES, DDC
 PROVIDE 2 WEEKS NOTICE TO OWNER FOR SHUT DOWN OF ANY SERVICES AND/OR SYSTEMS. 	CONTROL BOXES, ELECTRICAL PANELS, FILTERS, BELTS, WATER COILS, DISCONNECT SWITCHES AND ELEMENTS OF EQUIPMENT REQUIRING MAINTENANCE. "FULLY AND REASONABLY ACCESSIBLE" SHALL BE DEFINED AS NATIONAL ELECTRIC CODE REQUIRED
6. COORDINATE EXISTING EQUIPMENT AND MATERIALS THAT SHALL REMAIN THE PROPERTY OF THE OWNER. ITEMS OF VALUE WHICH ARE NOT DIRECTED TO BE RETURNED TO THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED EROM SITE AND LECALLY DISPOSED OF STORAGE OR SALE OF ITEMS ON THE PROJECT	CLEARANCE FOR POWERED EQUIPMENT AND CAPABLE OF BEING ACCESSED OR SERVICED WITHOUT REMOVING, MODIFYING OR DISTORTING OTHER COMPONENTS OF THE WORK. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCE FOR ALL EQUIPMENT.
SITE IS PROHIBITED. 7. PROTECTION: ENSURE THE SAFE PASSAGE OF PERSONS IN AND AROUND THE BUILDING	 SUPPORT EQUIPMENT, PIPING, AND DUCTWORK FROM BUILDING STRUCTURE OR WITH STEEL SUPPORTS AND PLATFORMS AS REQUIRED. PROVIDE VIBRATION ISOLATION FOR ROTATING EQUIPMENT, DUCTWORK, AND PIPING IN ACCORDANCE WITH THE SPECIFICATIONS.
DURING DEMOLITION. PREVENT INJURY TO PERSONS AND DAMAGE TO PROPERTY. PROVIDE ADEQUATE SHORING AND BRACING TO PREVENT COLLAPSE. IMMEDIATELY REPAIR DAMAGED PROPERTY TO THE CONDITION BEFORE BEING DAMAGED. TAKE	11. CONTROL WIRING METHODS SHALL COMPLY WITH NEC, AND DIVISION 26 SPECIFICATIONS.
 EFFECTIVE MEASURES TO PREVENT WINDBLOWN DUST. UTILITIES: MAINTAIN ALL UTILITIES EXCEPT THOSE REQUIRING REMOVAL OR RELOCATION. 	12. VERIFY EQUIPMENT CONNECTIONS WITH MANUFACTURER'S DRAWINGS. VERIFY AND PROVIDE FITTINGS TO TRANSITION TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE DIMENSIONS BEFORE FABRICATION.
SERVING OCCUPIED AREAS WITHOUT FIRST OBTAINING PERMISSION FROM THE OWNER IN WRITING. PROVIDE TEMPORARY SERVICES AS REQUIRED.	13. PERFORM PRESSURE AND LEAKAGE TESTS BEFORE INSULATING DUCTWORK AND PIPING
9. INFORMATION CONTAINED ON THESE DRAWINGS WAS OBTAINED FROM ARCHIVED DRAWINGS AND SITE VISITS. DRAWINGS ARE DIAGRAMMATIC ONLY AND REFLECT OVERALL SYSTEM REMOVAL. NOT EVERY ITEM OR COMPONENT OF A SYSTEM IS SHOWN. PROVIDE COMPLETE REMOVAL OF ASSOCIATED ANCILLARY PIPES, HANGERS, VALVES AND ACCESSORIES SERVING SYSTEM SHOWN.	EQUIPMENT. HOUSEKEEPING PADS SHALL BE REINFORCED CONCRETE WITH 1" CHAMFERED EDGES, 6" THICK, WITH MINIMUM CLEARANCE OF 6" FROM EQUIPMENT BASE TO EDGE OF PAD. INCREASE DEPTH WHERE REQUIRED FOR PROPER INSTALLATION OF EQUIPMENT, INCLUDING BUT NOT LIMITED TO CONDENSING BOILERS (TO ALLOW PROPER INSTALLATION OF NEUTRALIZATION EQUIPMENT AND GRAVITY DISCHARGE TO FLOOR DRAIN OR
10. DEMOLITION WORK SHALL COMPLY WITH OSHA, EPA AND APPLICABLE STATE AND LOCAL CODES. COMPLY WITH HAULING AND DISPOSAL REGULATIONS.	 CONDENSATE PUMP) AND AHU (TO ALLOW INSTALLATION OF CONDENSATE TRAP). MAINTAIN 6'-8" CLEARANCE TO THE UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ROUTES IN MECHANICAL ROOMS, MAINTAIN 3'-0" WIDE
11. REFER TO SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS AND PROCEDURES.	MEANS OF EGRESS IN MECHANICAL ROOMS. 16. MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND, AS SHOWN IN
PRE-DEMO TESTING, ADJUSTING AND BALANCING (TAB)	THE DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT, SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR.
CONSTRUCTION TESTING AND BALANCING OF SYSTEM AIRFLOW CAPACITY THROUGH PRE- CONSTRUCTION TESTING AND BALANCING OF SYSTEMS AFFECTED BY THE WORK. REPORTS SHALL INCLUDE COMPLETE FAN INFORMATION, CFM, ESP, TSP, RPM, VOLTS, AMPS AND VFD SPEEDS.	17. AIR CONDITIONING CONDENSATE DRAIN LINES FROM EACH AIR HANDLING UNIT AND ROOFTOP UNIT SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET WITH P-TRAP, P TRAP ARRANGEMENT SHALL BE BASED ON THE UNIT (NEGATIVE OR POSITIVE PRESSURE).
2. CONFIRM HYDRONIC SYSTEM CAPACITY THROUGH PRE-CONSTRUCTION TESTING AND BALANCING REPORTS OF SYSTEMS AFFECTED BY THE WORK. REPORTS SHALL INCLUDE	18. INSTALL UNITS WITH CLEARANCE FOR SERVICE AS REQUIRED BY THE MANUFACTURER.
3. CONFIRM STEAM PIPING CAPACITY THROUGH PRE-CONSTRUCTION TESTING AND	AIR SYSTEM GENERAL NOTES
BALANCING REPORTS OF SYSTEMS AFFECTED BT THE WORK. REPORTS SHALL INCLUDE PIPE SIZE AND STEAM PRESSURE (PSIG).	1. REFER TO SPECIFICATIONS FOR DUCTWORK CONSTRUCTION CLASSES, SEAL, AND LEAKAGE CLASSES.
	2. EXTERIOR LOUVERS ARE INDICATED FOR LOCATION ONLY. DETAILED DESCRIPTIONS ARE PROVIDED IN ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
	3. DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED TO THE FIRE ALARM SYSTEM BY THE ELECTRICAL CONTRACTOR AND MOUNTED WITHIN THE DUCTWORK BY THE MECHANICAL CONTRACTOR. ASSOCIATED FAN SYSTEM SHALL SHUT DOWN UPON DETECTION OF SMOKE.
	4. PROVIDE UL FIRE DAMPERS OR SMOKE/FIRE DAMPERS AND ASSOCIATED ACCESS PANELS WHERE SHOWN ON DRAWINGS IN COMPLIANCE WITH NFPA 90A. FOR DUCTS THAT PENETRATE FIRE WALLS, FLOORS AND PARTITIONS PROVIDE SLEEVES WHERE PENETRATIONS ARE NOT PERPENDICULAR TO SURFACE PENETRATED.
	 REFER TO REFLECTED CEILING PLANS FOR LOCATIONS OF AIR TERMINAL DEVICES. INTERNAL AIR FLOW DIMENSIONS ARE SHOWN FOR DUCTS. INCREASE SHEETMETAL SIZE
	FOR LINER IF APPLICABLE.7. DIFFUSER SIZES SHOWN ARE NECK SIZES; REGISTER AND GRILLE SIZE ARE NOMINAL.
	ROUND RUN OUTS TO DIFFUSERS SHALL BE THE SAME NOMINAL SIZE AS THE SCHEDULED NECK SIZE, UNLESS NOTED AS LARGER. DUCT TRANSITIONS SHALL BE PROVIDED AS NECESSARY AT INLET TO DIFFUSER.
	PROVIDE FLEXIBLE CONNECTIONS ON DUCTS CONNECTING TO FANS AND AIR HANDLING UNITS UNLESS INTERNALLY ISOLATED.
	 THE INSIDE OF DUCTWORK VISIBLE THROUGH A GRILLE OR DIFFUSER SHALL BE PAINTED FLAT BLACK. OPEN ENDED DUCTS SHALL BE PROVIDED WITH A 1/4" MESH ALLIMINUM OR CALVANIZED.
	 10. OPEN ENDED DUCTS SHALL BE PROVIDED WITH A 1/4 "MESH ALDMINOM OR GALVANIZED SCREEN (80% FREE AREA MINIMUM). 11. ELBOWS IN DUCT SYSTEMS SHALL BE FULL RADIUS (CENTERLINE RADIUS = 1.5 DUCT)
	WIDTH) WHERE SPACE PERMITS. WHERE LIMITED CLEARANCE OCCURS, PROVIDE SHORT RADIUS ELBOW WITH FULL LENGTH SPLITTER VANES PER SMACNA, OR MITERED ELBOW WITH TURNING VANES PER SMACNA.
	12. PROVIDE CLEANOUTS IN KITCHEN EXHAUST DUCTS AT CHANGES IN DIRECTION AND BASES OF RISERS, AND EVERY 10 FEET IN STRAIGHT RUNS.
	13. NOT ALL MANUAL DAMPERS ARE SHOWN ON THE DRAWINGS. PROVIDE MANUAL ADJUSTABLE DAMPERS ON EACH LOW PRESSURE SUPPLY, RETURN, AND EXHAUST DUCT TAKE OFF, AND AT TAKE OFFS TO REGISTERS, GRILLES, DIFFUSERS, AND OED; AS REQUIRED FOR PROPER BALANCE OF SYSTEM. PROVIDE CABLE OPERATED DAMPERS WHERE MANUAL DAMPER IS INACCESIBLE.
	14. WHERE DUCTS PENETRATE WALLS WITH SOUND ISOLATION PERFORMANCE RATINGS, PROVIDE DUCT SLEEVE SIZED TO PROVIDE 1/4" GAP BETWEEN THE SLEEVE AND DUCT. FILL THE GAP WITH FIBEROUS MATERIAL AND SEAL AIRTIGHT WITH NON-HARDENING ACOUSTIC SEALANT
	15. KITCHEN: COORDINATE REQUIREMENTS WITH KITCHEN EQUIPMENT VENDOR AND FOOD SERVICE DRAWINGS. PROVIDE DUCTWORK AND ACCESSORIES FOR DISHWASHER HOOD AND GREASE HOOD. GREASE DUCT AND DISHWASHER EXHAUST SHALL PITCH BACK TO HOOD

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	KEYNOTES - ELECTRICAL LIGHTING
Key Value	Keynote Text
EL1	LIGHTING CONNECTED TO ROOM CONTROLLER SHALL AUTOMATICALLY TURN ON IN THE EVENT OF A FIRE CALL REFER TO LIGHITNG CONTROL NETWORK DETAIL FOR ADDITIONAL INFORMATION.

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3	I	2	I	1					
KEYNOTES - ELECTRICAL LIGHTING									
Key Value		Ke	eynote Text						
EP1	PROVIDE 120V, 20A-1P PO PER MFR. REQUIREMENTS TO DOOR, AND ONE IN RE	WER FEED TO OVERHEAD I S IN 1"C. FROM MOTOR TO C PORTING ROOM.	DOOR MOTOR. ADDITION CONTROLLER ON WALL I	IALLY, PROVIDE CONTROL WIRING N TWO LOCATIONS - ONE ADJACE					
EP2	WALL MOUNTED I,T, RACK	- REFER TO TELECOM RISE	ER DIAGRAM FOR ADDIT	IONAL INFORMATION.					
EP3	WALL FIELD FOR OWNDEF	R-PROVIDED TELECOM SER	VICE EQUIPMENT AND A	CCESS CONTROL SYSTEM PANEL					
EP4	REMOTE CONTROLLERS F MULTI GANG BACKBOX.	OR OVERHEAD DOOR IN A	PPARATUS BAY. INSTALI	ALL CONTROLLERS IN A SINGLE					
EP5	POWER VIA 2#12+1#12G, 3	/4"C. TO EXISTING CIRCUIT							

Location: APPARATUS BAY 104 Supply From: UTILITY TRANSFORMER Mounting: Surface Enclosure: Type 1				Volts: 120/240 Phases: 1 Wires: 3			A.I.C. Rating: 22000 Bus Material: CU Bus Rating: 225 A MCB Rating / MLO: 225A MCB				
скт	Circuit Description	Trip	Poles	ļ	4	E	3	Poles	Trip	Circuit Description	скт
1	OVERHEAD DOOR 1	20 A	1	0.50	0.50			1	20 A	OVERHEAD DOOR 7	2
3	OVERHEAD DOOR 6	20 A	1			0.50	0.50	1	20 A	OVERHEAD DOOR 5	4
5	OVERHEAD DOOR 4	20 A	1	0.50	0.50			1	20 A	OVERHEAD DOOR 3	6
7	OVER HEAD DOOR 2	20 A	1			0.50	0.50	1	20 A	OVERHEAD DOOR SECOND GARAGE	8
9	PHASE CONVERTER, 120 V/240 V, Sing	125 A	2	8.00	0.90			1	20 A	RCPT - LOUNGE 102	10
11						8.00	0.36	1	20 A	RCPT - IT RACK RECEPTACLE	12
13	RCPT - TELECOM EQUIP	20 A	1	0.36	0.72			1	20 A	RCPT - REPORT 103	14
15	RCPT - REPORT 103	20 A	1			0.72	0.50	1	20 A	(ETR) OFFICE BREAKROOM HALLWAY	16
17	(ETR) REPORT 103	20 A	1	0.72	0.50			1	20 A	(ETR) 1/2 BID LIGHTS	18
19	(ETR) 1/2 BID LIGHTS	20 A	1			0.50	0.50	1	20 A	(ETR) BACK OF BID OUTSIDE GFI PLUG	20
21	(ETR) BACK ROOM WORK BENCH	20 A	1	0.50	0.50			1	20 A	(ETR) ELECTRICAL PANEL PLUG	22
23	RCPT - WORK BENCH	20 A	1			0.50	0.89	1	20 A	LTG - APPARATUS BAY	24
25	LTG - APPARATUS BAY SECOND	20 A	1	0.28	0.05			2	20 A	UH-A	26
27	UH-A	20 A	2			0.05	0.05				28
29				0.05	3.00			2	20 A	VEF-1	30
31	UH-A	20 A	2			0.05	3.00				32
33				0.05	0.18			1	20 A	AIR COMPRESSOR	34
35	RCPT - WORK BENCH	20 A	1			0.50	0.50	1	20 A	RCPT - WORK BENCH	36
37	RCPT - WORK BENCH	20 A	1	0.50				1		SPACE	38
39	SPARE	20 A	1			0.00		1		SPACE	40
41	SPARE	20 A	1	0.00				1		SPACE	42
		Plas	e Load:	18.30	18.30 kVA		18.11 kVA				
	Phase Amps:		152.5 A		150.9 A		1				

