PROPOSED TOILET ROOM RENOVATIONS LRHSD PROJECT NO. REF21-39-8312 SHAWNEE HIGH SCHOOL 600 TABERNACLE ROAD MEDFORD, NJ 08055 SCHOOL DISTRICT PREPARED FOR THE

LENAPE REGIONAL HIGH SCHOOL LENAPE REGIONAL HIGH SCHOOL DISTRICT BOARD OF EDUCATION

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ABBREVIATION LIST

R DRAIN RESCENT OF PROOF SELF CLOSING IE RETARDANT TREADED (WOOD) RGLASS REINFORCED GYPSUM BOARD IBLE SHEET ROOFING RGLASS REINFORCED POLYESTER ING SUM BOARD E VANIZED IRAL CLASSROOM DE SUM WALL BOARD SUM O OW METAL ZONTAL POINT PRESSURE SODIUM ORAIL 4T ING, VENTILATION, 4 CONDITIONING RLOCKING ATHLETIC RUBBER RING E DIMENSION ATION S 	PLYWD. P.S. PSI. PTD. PTD. PTN. PVC. Q.T. R RAD. RD. REBAR REF. / REFRIG. R/F REQ'D. REINF. △ / REV. RFT RM. RT. RV. RW RU. SC / SP. CT. SF SHT. SIM. SPEC (S.) SQ. STD. STG. STL. / ST. SJ. / ST. SJ. SJ. / ST. SJ. / SJ. / ST. SJ. / SJ. SJ. / SJ. /	PLYWODD PIPE SPACE POUNDS PER SQUARE INCH PAINTED PARTITION POLYVINTL CHLORIDE QUARRY TILE RADIUS / RISER RADIUS ROOF DRAIN REINFORCING BAR REFRIGERATOR REFRIGERATOR REFRIGERATOR / FREEZER REQUIRED REINFORCE (ING) REVISION RUBBER FLOOR TILE ROOM ROOF TOP ROOF VENT RAIN WATER CENDUCTOR RAIN WATER LEADER SPECIAL COATING SQUARE FOOT SHEET SIMILAR SPECIFICATION (5) SQUARE STANDARD STORAGE STEL STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL STAINLESS STEEL STAINLESS / TOP TACK BOARD TOP AND BOTTOM TELEPHONE THICK TOILET TOP OF
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INTING E DIMENSION ATION ATION HEN HEN LEG HORIZONTAL ILEG HORIZONTAL ILEG VERTICAL POINT IWEIGHT CONCRETE HINE WRY MUM	51G. 5TL. / 5T. 5.5. / 5T. 5T. 5TRUCT. 5USP'D. 5W. T. T.B. T. ≰ B. TEL. THK. TLT. T.O.	STORAGE STEEL STAINLESS STEEL STRUCTURAL SUSPENDED SHORT WAY TREAD / THICKNESS / TOP TACK BOARD TOP AND BOTTOM TELEPHONE THICK TOILET TOP OF
ATION ATION HEN EN NATED EL ATORY ILEG HORIZONTAL ILEG VERTICAL POINT TWEIGHT CONCRETE HINE WRY MUM	5.5. / 5T. 5T. 5TRUCT. 5U5P'D. 5.W. T. T.B. T. ≰ B. TEL. THK. TLT. T.O.	STAINLESS STEEL STRUCTURAL SUSPENDED SHORT WAY TREAD / THICKNESS / TOP TACK BOARD TOP AND BOTTOM TELEPHONE THICK TOILET TOP OF
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HEN ATED ATORY ALEG HORIZONTAL ALEG VERTICAL POINT IVEIGHT CONCRETE HINE WRY MUM HIED BITUMEN GLIEET POOEING	500 D. 500 D. T. T.B. T. ≰ B. TEL. THK. TLT. T.O. T.O. T.O. T.O.	SHORT WAY TREAD / THICKNESS / TOP TACK BOARD TOP AND BOTTOM TELEPHONE THICK TOILET TOP OF
S NATED EL ATORY SELEG HORIZONTAL SELEG VERTICAL POINT TWEIGHT CONCRETE HINE WRY MUM	T. T.B. T. & B. TEL. THK. TLT. T.O. T.O.S. T.G.	TREAD / THICKNEGS / TOP TACK BOARD TOP AND BOTTOM TELEPHONE THICK TOILET TOP OF
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MUM HEID RITIIMEN ALLEET POORENC	т.э. Т.ОШ	TOP OF WALL
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FACTURER	U.S.	UNDER SIDE
FACTURED	U.S.G.	UNITED STATES GYPSUM
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GYMRN G

EXISTING TOILET ROOM AREAS AS

WALLS, DOORS, VISIONS PANELS, QUIPMENT REPLACEMENT, HVAC,

- OF COMMUNITY SUBCODES AS
- NIG (COMMERCIAL)
- INTERNATIONAL CODE COUNCIL, INC. (ICC).
- NATIONAL STANDARD PLUMBING CODE, 2021, AS AMENDED. G. ELECTRICAL SUBCODE, NATIONAL ELECTRICAL CODE / NATIONAL FIRE PROTECTION ASSOCIATION (NEPA) 10 /
- 2020, AS AMENDED.
- H. REHABILITATION SUBCODE NJAC 5:23-6, AND SPECIFICALLY 5:23-6.4 OSHA REGULATIONS, AS APPLICABLE.
- ADA (Americans with Disabilities Act), AS APPLICABLE.
- K. (NJAC) NEW JERSEY ADMINISTRATIVE CODE, TITLE 6± CHAPTER 22, AS APPLICABLE.
- ICC / ANSI A117,1, 2017 M. INTERNATIONAL FUEL GAS CODE, 2021,, AS APPLICABLE
- N. NEPA 13, 2020.
- O. SEI/ASCE (AMERICAN SOCIETY OF CIVIL ENGINEERS) CURRENT EDITION.
- P. ASTM E1886-02 / ASTM E1996-02 WIND ZONE AND MISSILE TESTING.

EQUIV

EQUIP

PROJECT SCOPE

THE SCOPE OF THIS PROJECT INCLUDES THE FOLLOWING:

- A. SELECTIVE DEMOLITION AS REQUIRED FOR RENOVATION AND REHABILITATION OF EXISTING TOILET ROOMS WITHIN THE SCOPE OF THE
- PROJECT. PATCH, REPAIR AND PAINTING OF ALL EXISTING WALLS AFFECTED BY RENOVATION CONSTRUCTION. PREPARATION OF AND PAINTING OF EXISTING DOOR FRAMES SCHEDULED TO REMAIN. C. SUPPPLY AND INSTALLATION OF ALL MATERIALS REQUIRED FOR COMPLETION OF THE SCOPE OF WORK INCLUDING TOILET ROOM
- ACCESSORIES, PLUMBING FIXTURES, TOILET COMPARTMENTS, DOORS AND FRAMES.
- D. COORDINATION AND SEQUENCING OF THE WORK WITH SUBCONTRACTORS WHOSE RESPONSIBILITIES SHALL INCLUDE REMOVAL AND OF EXISTING CEILING MOUNTED LIGHTING FIXTURES, MECHANICAL DIFFUSERS AND OTHER ELECTRICAL AND COMMUNICATION DEVICES. SUPPLY AND INSTALLATION OF NEW FLOOR, WALL AND CEILING FINISHES EXCEPT WHERE SPECIFICALLY NOTED AS BY OTHERS.
- PROTECTION AND MODIFICATION OF EXISTING ADJACENT CONSTRUCTION TO REMAIN, AND RESTORATION OF ANY BUILDING FINISHES, ADJACENT ROOF AREAS OUTSIDE THE SCOPE OF THIS CONTRACT INDICATED TO REMAIN, AND ADJACENT AREAS OF THE OWNER'S SITE DAMAGED AS A REGULT OF THE WORK OF THIS CONTRACT
- G. THE CONDITIONS INCLUDED AS DETAILED AND NOTED WITHIN THE SCHEDULE BELOW AND REFERENCED ON THE PLANS ARE NOT ALL INCLUSIVE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND DETAILS, AND FIELD VERIFY ALL CONDITIONS, DIMENSIONS AND QUANTITIES, AND TO ADDRESS ALL CONDITIONS AS REQUIRED.

DIVISION 1: GENERAL REQUIREMENTS

- THE FOLLOWING NOTES SHALL APPLY TO ALL CONDITIONS, WHETHER SPECIFICALLY INDICATED OR NOT.
- 2. ALL WORK INCLUDED IN THESE PLANS AND SPECIFICATIONS SHALL BE GOVERNED BY THE CONTRACT DOCUMENTS AS DEFINED BY THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION A.I.A. A201, LATEST EDITION.
- 3. THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS AND VERIFY THE LOCATION AND EXISTENCE OF ALL IMPROVEMENTS, BOTH ABOVE AND BELOW THE GROUND SURFACE PRIOR TO THE INITIATION OF ANY WORK. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING AS REQUIRED. THE CONTRACTOR SHALL AT ALL TIMES ADEQUATELY PROTECT THE EXISTING PROPERTY AND SITE IMPROVEMENTS AGAINST DAMAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS A RESULT OF CONTRACT OPERATIONS, AND SHALL REPLACE OR REPAIR DAMAGED AREAS TO THEIR ORIGINAL CONDITION.
- 4. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. DIMENSIONS AND ROOM AREAS REFERENCED ARE PROVIDED FOR THE CONTRACTOR'S REFERENCE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL CONDITIONS AND DIMENSIONS.
- 5. THE CONTRACTOR SHALL PROVIDE ADEQUATE VENTILATION OF THE WORK AREAS. DUST, AND FUMES SHALL BE VENTED DIRECTLY TO THE EXTERIOR.
- 6. WORK MAY BE PERFORMED DURING THE SCHOOL DAY UNDER THE CONDITION THAT THE SCHOOLS NORMAL OPERATIONS ARE NOT AFFECTED. NOISE GENERATING ACTIVITIES WILL NOT BE PERMITTED DURING THE SCHOOL DAY.
- 1. ALL WORK SHALL BE DONE IN STRICT CONFORMANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES.
- 8. ALL WORK SHALL BE DONE IN A MANNER CONSISTENT WITH THE HIGHEST STANDARDS OF THE RESPECTIVE TRADES AND CONSISTENT WITH INDUSTRY STANDARDS.
- 9. THE OWNER ASSUMES NO RESPONSIBILITY FOR ACTUAL CONDITION OF ITEMS OR STRUCTURES TO BE REMOVED OR DEMOLISHED.
- 10. REFER TO PLUMBING, HVAC AND ELECTRICAL DRAWINGS FOR INFORMATION REGARDING THE REMOVAL OF EXISTING BUILDING
- MECHANICAL AND ELECTRICAL IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, EXISTING PIPING, LIGHTING, CONDUITS, AND HVAC UNITS II. ALL CONTRACTORS SHALL REVIEW THE ARCHITECTURAL FLOOR PLANS AND DEMOLITION PLANS AND REMOVE, EXTEND, RELOCATE OR PROPERLY DISCONNECT ANY AND ALL SERVICE AS REQUIRED TO ACCOMMODATE THE PROPOSED CONDITIONS ON THESE PLANS,
- WHETHER OR NOT THESE ITEMS HAVE BEEN SPECIFICALLY SHOWN OR NOTED ON THE PLUMBING (P) DRAWINGS. 12. GENERAL CONTRACTOR SHALL INFILL ALL ABANDONED OPENINGS WITH MATERIALS TO MATCH EXISTING. MATCH EX'G ADJACENT FINISH FOR ALTERATION WORK AT EXISTING BUILDING.
- 13. GENERAL CONTRACTOR SHALL INFILL ALL EXISTING SLABS IN AREAS OF PROPOSED DEMOLITION WITH CONCRETE TO MATCH EXISTING FLOOR FINISH, AS REQUIRED FOR NEW FLOOR FINISHES.
- 14. GENERAL CONTRACTOR TO REMOVE AND SAFELY STORE ALL CEILING OR WALL MOUNTED EQUIPMENT REMOVED TO FACILITATE INSTALLATION OF NEW SYSTEMS. CONTRACTOR TO REINSTALL REMOVED ITEMS IN ADJACENT LOCATION, WITHOUT CONFLICT TO THE NEW SYSTEMS.
- 15. GENERAL CONTRACTOR TO ENSURE AND MAINTAIN ALL AREAS ARE PROTECTED WITH FIRE ALARM THROUGHOUT THE CONSTRUCTION PERIOD. ANY REMOVAL, REPLACEMENT AND RELOCATION OF FIRE ALARM ACTUATING OR NOTIFICATION DEVICES SHALL BE EXECUTED IN CONFORMANCE WITH APPLICABLE CODES INCLUDING NEPA 13. REINSTALLATION OF CEILING SYSTEMS TO BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES.
- 16. WHETHER SPECIFICALLY INDICATED OR NOT, ALL APPLICABLE TRADES MUST REMOVE & RELOCATE ITEMS IN CONFLICT WITH PROPOSED NEW WORK. IF FOR ANY REASON, AN ITEM TO BE REMOVED IS IN QUESTION, CONTRACTOR MUST SUBMIT AN REI TO THE CONSTRUCTION MANAGER/ARCHITECT FOR REVIEW.
- 17. CONTRACTOR MUST PATCH, REPAIR AND INFILL ALL AREAS OF CONSTRUCTION AFFECTED BY THE REMOVAL OF ANY AND ALL ITEMS TO PROVIDE SEAMLESS FINISH.
- 18. REMOVE EXISTING CEILING CONSTRUCTION AS REQUIRED FOR INSTALLATION OF NEW SYSTEMS AND FIRE PROOFING.
- 19. REMOVE EX'G GWB/PLASTER OR ACOUSTICAL TILE AS NEEDED FOR CONNECTION TO NEW SOFFITS.
- 20. REMOVE EXISTING WALL, CEILING, OR FLOOR MOUNTED EQUIPMENT TO ACCOMMODATE NEW CONSTRUCTION AND AS NOTED. 21. REPAIR EXISTING WALL FINISHES AS REQUIRED TO ACCEPT NEW FINISHES. WALL PREPARATION SHALL INCLUDE PATCHING AND REPAIR OF HOLES, DAMAGE AND PENETRATIONS RESULTING FROM THE WORK OF THIS CONTRACT AS WELL AS ANY AND ALL PRE-EXISTING CONDITIONS.
- 22. REINSTALL EX'G EQUIPMENT AFTER MODIFICATION WORK IS COMPLETED, REMOVE BUILT-IN CONSTRUCTION, REPAIR EXISTING WALL FINISHES AS REQUIRED TO ACCEPT NEW FINISHES.

GENERAL DEMOLITION NOTES:

- 1. SCHEDULE: SUBMIT SCHEDULE INDICATING PROPOSED METHODS AND SEQUENCE OF OPERATIONS FOR SELECTIVE DEMOLITION WORK TO ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF WORK. INCLUDE COORDINATION FOR SHUTOFF, CAPPING, AND CONTINUATION OF UTILITY SERVICES AS REQUIRED, TOGETHER W/ DETAILS FOR DUST AND NOISE CONTROL. PROVIDE DETAILED SEQUENCE OF DEMOLITION AND REMOVAL WORK TO ENSURE OWNER'S ONSITE OPERATIONS ARE NOT UNINTERRUPTED. COORDINATE WITH OWNER'S CONTINUING OCCUPATION OF PORTIONS OF EXISTING BUILDING.
- 2. OCCUPANCY: OWNER WILL BE CONTINUOUSLY OCCUPYING AREAS OF THE BUILDING IMMEDIATELY ADJACENT TO AREAS OF SELECTIVE DEMOLITION. CONDUCT SELECTIVE DEMOLITION WORK IN MANNER THAT WILL MINIMIZE NEED FOR DISRUPTION OF OWNER'S NORMAL OPERATIONS. PROVIDE MINIMUM OF 12 HOURS ADVANCE NOTICE TO OWNER OF DEMOLITION ACTIVITIES WHICH WILL IMPACT OWNER'S NORMAL OPERATIONS. SPECIAL NOTE: TO THE GREATEST EXTENT POSSIBLE, DEMOLITION WORK WHICH COULD DISTURB THE OWNER'S NORMAL OPERATIONS WILL BE SCHEDULED TO OCCUR DURING THE OWNER'S OFF-PEAK OPERATION PERIOD, AS SPECIFIED BY THE
- 3. STORAGE OR SALE OF REMOVED ITEMS ON SITE WILL NOT BE PERMITTED.
- 4. PROTECTIONS: PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT OWNER'S PERSONNEL AND GENERAL PUBLIC FROM INJURY DUE TO DEMOLITION WORK. 5. PROVIDE PROTECTIVE MEASURES AS REQUIRED TO PROVIDE FREE AND SAFE PASSAGE OF OUNER PERSONNEL TO AND FROM
- OCCUPIED PORTIONS OF BUILDING.
- 6. PROTECT FROM DAMAGE EXISTING FINISH WORK THAT IS TO REMAIN IN PLACE AND BECOMES EXPOSED 1. CONSTRUCT TEMPORARY INSULATED SOLID DUSTPROOF PARTITIONS WHERE REQUIRED TO SEPARATE AREAS WHERE NOISY OR EXTENSIVE DIRT OR DUST OPERATIONS ARE PERFORMED. EQUIP PARTITIONS WITH DUSTPROOF DOORS AND SECURITY LOCKS IF REQUIRED. PROVIDE TEMPORARY WEATHER PROTECTION DURING INTERVAL BETWEEN DEMOLITION AND REMOVAL OF EXISTING CONSTRUCTION ON EXTERIOR SURFACES, AND INSTALLATION OF NEW CONSTRUCTION TO INSURE THAT NO WATER LEAKAGE OR DAMAGE OCCURS TO STRUCTURE OR INTERIOR AREAS OF EXISTING BUILDING. REMOVE PROTECTIONS AT COMPLETION OF WORK. 9. DAMAGES: PROMPTLY REPAIR DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION WORK AT NO COST TO OWNER.
- 10. TRAFFIC: CONDUCT SELECTIVE DEMOLITION OPERATIONS AND DEBRIS REMOVAL IN A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. 11. DO NOT CLOSE, BLOCK OR OTHERWISE OBSTRUCT STREETS, AMBULANCE ACCESS, DELIVERY ACCESS, WALKS OR OTHER OCCUPIED OR
- USED FACILITIES WITHOUT WRITTEN PERMISSION FROM AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY GOVERNING REGULATIONS. 12. UTILITY SERVICES: MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN, KEEP IN SERVICE, AND PROTECT AGAINST DAMAGE DURING
- DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO GOVERNING AUTHORITIES.
- 6. SIZE AND/OR LOCATION OF EXISTING STRUCTURES AND UTILITIES SHOWN ON THE STRUCTURAL DOCUMENTS ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY
- 1. ENVIRONMENTAL CONTROLS: USE WATER SPRINKLING, TEMPORARY ENCLOSURES, AND OTHER SUITABLE METHODS TO LIMIT DUST AND DIRT RISING AND SCATTERING IN AIR TO LOWEST PRACTICAL LEVEL. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION. DO NOT USE WATER WHEN IT MAY CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS SUCH AS ICE, FLOODING, AND POLLUTION.

ROOFING NOTES:

- 1. THE CONDITIONS INCLUDED AS DETAILED AND NOTED WITHIN THE SCHEDULE BELOW AND REFERENCED ON THE PLANS ARE NOT ALL INCLUSIVE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND DETAILS, AND FIELD VERIFY ALL CONDITIONS,
- DIMENSIONS AND QUANTITIES, AND TO ADDRESS ALL CONDITIONS AS REQUIRED. 2, ROOF REPAIRS WHERE NOTED SHALL BE PERFORMED IN COMPLIANCE WITH THE ROOFING MEMBRANE OR COATING. MANUFACTURER'S WARRANTY REQUIREMENTS. ALL REPAIRS OR MODIFICATIONS TO THE ROOFING MEMBRANE OR COATING SYSTEMS SHALL BE PERFORMED BY A ROOFING CONTRACTOR PRE-APPROVED BY THE ROOF MEMBRANE OR COATING SYSTEMS MANUFACTURER WHERE EXISTING ROOF PENETRATIONS HAVE BEEN ABANDONED AS A RESULT OF THE WORK OF THIS CONTRACT, OR WHERE MECHANICAL ROOF CURBS HAVE MODIFIED, ENLARGED OR REDUCED IN SIZE, OR WHERE REPAIRS ARE OTHERWISE REQUIRED, THE STRUCTURAL DECK AND FRAMING SHALL BE RESTORED AS INDICATED WITHIN THESE DOCUMENTS, AND COVERED WITH A WEATHER-TIGHT ROOFING SYSTEM CONSISTING OF .060" REINFORCED EPDM MEMBRANE OVER RIGID POLYISOCYANURATE ROOFING INSULATION, DEPTH AND SLOPE TO MATCH THE EXISTING. THE PERIMETER OF THE NEW INSULATION AND MEMBRANE SHALL BE COMPLETELY SEALED TO THE EXISTING, IN ACCORDANCE WITH THE REQUIREMENTS OF Ø75000.13 MEMBRANE ROOFING CUTTING AND PATCHING, AND Ø15323 - ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING,
- 3. WHERE SILICONE ROOF COATINGS HAVE BEEN APPLIED, THE PERIMETER OF THE NEW MEMBRANE ROOFING SHALL BE TREATED IN ACCORDANCE WITH "FLASHING - SEAM/JOINT TREATMENT", AS SCHEDULED W/I SPECIFICATION SECTION Ø15600, 3-COURSE W/ FABRIC EMBEDDED INTO 2 LAYERS OF FLASHING. THE NEW MEMBRANE SHALL BE CLEANED AND PREPARED AS REQUIRED TO ACCEPT THE APPLICATION OF "GAF" ROOF COATING RESTORATION SYSTEM.

SITE LOCATION MAP



PROJECT LOCATION SHAUNEE HIGH SCHOOL MAIN ENTRANCE 600 TABERNACLE ROAD MEDFORD, NJ Ø8Ø55



NEW OPENING

1/4"=1'-0"

DRAWING KEY NOTES

DEMOLITION NOTES:

- 2.1.1 CONCRETE MASONRY: REMOVE MASONRY WALL IN ITS ENTIRETY.
- 2.1.2 <u>CONCRETE MASONRY</u>: REMOVE CONCRETE MASONRY WALL AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. TOOTH IN NEW MASONRY, PROVIDE NEW STRUCTURAL LINTEL WHERE INDICATED.
- INTERIOR CONCRETE CONSTRUCTION: REMOVE EXISTING CONCRETE SLABS AS REQUIRED TO
- 2.1.3 ACCOMMODATE NEW CONSTRUCTION INDICATED, PRESENCE OF UNDERGROUND UTILITIES TO BE REVIEWED AND CONFIRMED
- 2.1.4 UNDERGROUND UTILITIES: LOCATE, PRESERVE AND PROTECT EXISTING UNDERGROUND UTILITIES THAT ARE NOT PROPOSED TO BE RE-USED. SEE M.P.E. DRAWINGS.
- 2.2.1 DOORS AND FRAMES: REMOVE EXISTING DOOR. FRAME TO REMAIN. SALVAGE HARDWARE, TURN OVER TO OWNER.
- 2.2.2 DOORS AND FRAMES: REMOVE EXISTING DOOR AND FRAME. SALVAGE HARDWARE, TURN OVER TO OWNER.
- 2.3.1 EXISTING TOILET PARTITIONS: TO BE REMOVED. ALL EX'G T.R. ACCESSORIES TO BE REMOVED
- INCLUDING MIRRORS, VENDERS, DISPENSERS, GRAB BAR, AND DISPOSALS. 2.3.2 EXISTING EQUIPMENT: REMOVE EXISTING EQUIPMENT INCLUDING HVAC, PLUMBING AND ELECTRICAL. COORDINATE WITH MPE DRAWINGS.
- 2.3.3 EXISTING WALL MOUNTED ACCESSORIES: TO BE REMOVED AND DISPOSED OF. REMOVE ANCHORS, ADHESIVES, REPAIR WALL CONSTRUCTION, PREPARE TO NEW FINISHES.
- 2.3.4 EXISTING LOOSE MATERIALS: TO BE REMOVED BY THE OWNER.
- EXISTING POURED FLOORING: REMOVE ALL EX'G EPOXY AND EPOXY LIKE FLOOR FINISHES. REMOVE 2.4.1 ASSOCIATED BASE AND THRESHOLDS. PREPARE CONCRETE FOR PROPOSED FINISH. THIS WORK SHALL BE E G.C. UNDER THE SCOPE OF THIS CONTRACT, TYPICAL ALL C.T. FLOORING AREAS.
- 2.4.2 EXISTING WALL BASE: REMOVAL OF THE EXISTING VINYL WALL BASE AND MASTIC SHALL BE THE RESPONSIBILITY OF THE G.C. UNDER THE SCOPE OF THIS CONTRACT, TYPICAL ALL SPACES.
- EXISTING C.T. FLOOR: REMOVE THE EXISTING CERAMIC TILE FLOOR AND SETTING BED IN THEIR 2.4.3 ENTIRETY. REMOVE ASSOCIATED BASE AND THRESHOLDS. PREPARE CONCRETE FOR PROPOSED FINISH. THIS WORK SHALL BE BY G.C. UNDER THE SCOPE OF THIS CONTRACT, TYPICAL ALL C.T. FLOORING AREAS.
- EXISTING C.T. WALLS: REMOVE THE EXISTING CERAMIC WALL TILE AND SETTING BED IN THEIR 2.4.4 ENTIRETY. REMOVE ASSOCIATED BASE AND THRESHOLD. PREPARE EX'G WALLS FOR PROPOSED FINISH.

2.5.0 CEILINGS: SEE SHEET A5.1

- PLUMBING DEMOLITION: REMOVE PLUMBING SYSTEMS, DEVICES, AND ASSOCIATED PIPING AND 22.1.1 FIXTURES INDICATED. REMOVE ALL URINALS, SINKS AND WATER CLOETS. REFER TO THE CONTRACT PLUMBING DRAWINGS.
- 22.1.2 <u>ABANDONED PLUMBING CONSTRUCTION:</u> REMOVE AND CAP ABANDONED PLUMBING FIXTURES, PIPING AND SERVICES, BOTH PRE-EXISTING AND THAT RESULTING FROM THE WORK OF THIS CONTRACT.
- 23.1.1 MECHANICAL DEMOLITION: REMOVE MECHANICAL SYSTEMS INCLUDING MECHANICAL EQUIPMENT, DUCTWORK, DIFFUSERS AND ASSOCIATED PUMPS AND PIPING INDICATED. REFER TO THE CONTRACT MECHANICAL DRAWINGS. ABANDONED MECHANICAL CONSTRUCTION: REMOVE AND CAP ABANDONED MECHANICAL EQUIPMENT, DUCTWORK AND ACCESSORIES, BOTH PRE-EXISTING AND THAT RESULTING FROM THE WORK OF THIS
- CONTRACT.
- ELECTRICAL DEMOLITION: REMOVE ELECTRICAL DEVICES INCLUDING RECEPTACLES, DISCONNECTS, LIGHTING FIXTURES, CLOCK SPEAKER SYSTEMS. REFER TO THE CONTRACT ELECTRICAL DRAWINGS. ELECTRICAL DEMOLITION: REMOVE, SALVAGE EXISTING ELECTRICAL DEVICES AS INDICATED AND
- 26.1.2 DIRECTED BY THE OWNER. TURN OVER TO OWNER.
- 26.1.3 ABANDONED ELECTRICAL CONSTRUCTION: REMOVE AND CAP ABANDONED ELECTRICAL EQUIPMENT, DUCTWORK AND ACCESSORIES, BOTH PRE-EXISTING AND THAT RESULTING FROM THE WORK OF THIS CONTRACT.

DEMO. TYP. NOTES FOR TOILET ROOMS AND ADJACENT SPACES:

2.1.2	2.3.1	2.4.1		22.1.1	23.1.1	26.1.1
2.1.3	2.3.2	2.4.2		22.1.2	23.1.2	26.1.2
2.1.4	2.3.3	2.4.3				26.1.3
	2.3.4	2.4.4				

1.1	THRESHOLD	HRDWR.	REMARKS
LL		SET	SEE "SPECIFIC NOTES" BELOW
/A	EX'G	Ø	NOTE 1, 2
/A	EX'G	Ø	NOTE 1, 2
151	ALUM.	Ø2	
151	ALUM.	Ø2	
M. 10.	ALUM.	Ø3	

CEILING							
COLOR	MAT. FINISH		COLOR	HT.	SEE "ROOM FINISH NOTES - SPECIFIC" FOR NOTATIONS		
BY OWNER	AP-1	PRE-FIN	WHITE	SEE RCP			
BY OWNER	AP-1	PRE-FIN	WHITE	SEE RCP			
BY OWNER	AP-1	PRE-FIN	WHITE	SEE RCP			
BY OWNER	AP-1	PRE-FIN	WHITE	SEE RCP			
BY OWNER	AP-1	PRE-FIN	WHITE	SEE RCP			

1-1/2**'=1**'-0'

CEILINGS: REMOVE EX'G HARD GU
CEILINGS: REMOVE EX'G 2X4 AND,
<u>CEILINGS:</u> REMOVE EX'G IXI SPLIN
<u>CEILINGS:</u> REMOVE EX'G GWB SOFF
PLUMBING DEMOLITION: REMOVE F FIXTURES INDICATED. REMOVE ALL PLUMBING DRAWINGS.
ABANDONED PLUMBING CONSTRUC AND SERVICES, BOTH PRE-EXISTIN
MECHANICAL DEMOLITION: REMOV DUCTWORK, DIFFUSERS AND ASSOC MECHANICAL DRAWINGS.
ABANDONED MECHANICAL CONSTR DUCTWORK AND ACCESSORIES, BO CONTRACT.
ELECTRICAL DEMOLITION: REMOVE LIGHTING FIXTURES, CLOCK SPEAKE
ELECTRICAL DEMOLITION: REMOVE DIRECTED BY THE OWNER. TURN OV
ABANDONED ELECTRICAL CONSTR DUCTWORK AND ACCESSORIES, BO

DEMO. TYP. NOTES FOR TOILET

2.5.4	22.1.1	23.1.1	26.1.1 2
	22.1.2	23.1.2	26.1.2

	ABBRE	VIATION	1S	DUC	TWORK SYMBOLS
AC	AIR CONDITIONING UNIT	HRU	HEAT RECOVERY UNIT	SYMBOL	DESCRIPTION
AD AF	ACCESS DOOR AIRFOIL	HV	HEATING & VENTILATING UNIT HOT WATER	\square	SUPPLY/OUTSIDE AIR DUCT
AFF AHU	ABOVE FINISHED FLOOR AIR HANDLING UNIT	HWR HWS	HOT WATER RETURN HOT WATER SUPPLY		RETURN/EXHAUST AIR DUCT
al Amd	ACOUSTICAL LINING AIR MEASURING DEVICE	HX Hz	HEAT EXCHANGER HERTZ	<u>۲</u>	45' ENTRY TAKEOFF, RECTANGULAR TO RECTANGULAR
AP AS	ACCESS PANEL AIR SEPARATOR	ID I/L	INSIDE DIAMETER INTERLOCK	<u>ب ا</u>	90° TAKEOFF, RECTANGULAR TO ROUND, STRAIGHT
ATC B	AUTOMATIC TEMPERATURE CONTROL BOILER	IN IN/WG	INCH INCHES WATER GAUGE		90° TAKEOFF, RECTANGULAR TO ROUND BELLMOUTH W/ MANUAL VOLUME DAMPER
BAS BBD	BUILDING AUTOMATION SYSTEM BOILER BLOWDOWN	KŴ LAT	KILOWATT LEAVING AIR TEMPERATURE	، ب	90° TAKEOFF, ROUND TO ROUND, STRAIGHT
BD BF	BACKDRAFT DAMPER BOILER FEED UNIT	lb Lb/hr	POUND(S) POUNDS PER HOUR	، ب ب	90° CONICAL TAKEOFF, ROUND TO ROUND
bfp bfw	BACK FLOW PREVENTER BOILER FEEDWATER	LD LF	LINEAR DIFFUSER LINEAR FEET	5-55	45° CONICAL LATERAL, ROUND TO ROUND
bfwp Bhp	BOILER FEEDWATER PUMP BRAKE HORSEPOWER	LH LPC	LATENT HEAT LOW PRESSURE CONDENSATE	<u>ب</u>	45° LATERAL, ROUND TO ROUND
BI BOD	BACKWARD INCLINE BOTTOM OF DUCT	LPD LPS	LOW PRESSURE DRIP LOW PRESSURE STEAM	ب ب ب	45° WYE, ROUND TO ROUND
BOP BOS	Bottom of PIPE Bottom of Steel	LR LRA	LINEAR RETURN LOCKED ROTOR AMPS	<u>ب</u>	END OF DUCT (CAPPED)
BPD BTU	BYPASS AIR DAMPER BRITISH THERMAL UNIT	LVR LWT	LOUVER LEAVING WATER TEMPERATURE	کے ک	SIDEWALL AIR TERMINAL W/VD
BTUH BV	BRITISH THERMAL UNIT PER HOUR BUTTERFLY VALVE	MAU MB	MAKEUP AIR UNIT MIXING BOX	↓	(ARROWS DENOTE THROW DIRECTION)
€ CBD	CENTER LINE CONTINUOUS BOILER BLOWDOWN	MBH MOD	1000 BTU PER HOUR MOTOR OPERATED DAMPER		LINEAR DIFFUSER
CC CD CE	COOLING COIL CEILING DIFFUSER	MPR MPS	MEDIUM PRESSURE STEAM RETURN MEDIUM PRESSURE STEAM SUPPLY	S→10	FIRE DAMPER - VERTICAL POSITION
CF CFH	CHEMICAL FEED UNIT CUBIC FEET PER HOUR CUBIC FEET PER MINUTE	MU (N)	MAKE UP WATER NEW	⊠ ◆	FIRE DAMPER - HORIZONTAL POSITION
CHWR	CHILLER CHILLER CHILLED WATER RETURN	NC NG	NORMALLY CLOSED NATURAL GAS	└── ₿── └	FLEXIBLE CONNECTION
CHWS	CHILLED WATER SUPPLY CAST IRON	NU NTS	NURMALLY UPEN NOT TO SCALE	<u> </u>	MANUAL VOLUME DAMPER
CIP COMP	CLEAN IN PLACE COMPRESSOR	UA OAD	OUTSIDE AIR DAMPER		
CON	CONCENTRIC CONDENSATE	OBD	OUTSIDE AIR INTAKE OPPOSED BLADE DAMPER		MUTUN UTENAILU DAMPEK
CP CRU	CONDENSATE PUMP COMPUTER ROOM	OCC OD	OUTSIDE DIAMETER		SMOKE DETECTOR (DUCT-MOUNTED)
CS -	AIR CONDITIONING UNIT CLEAN STEAM - PSIG	OP OV	OPEN END DUCT ORIFICE PLATE		EXHAUST AIR DESIGNATION
CT CU	COOLING TOWER CONDENSING UNIT	P P	PUMP PARALLEL PLADE DAMPER	→	RETURN AIR DESIGNATION
CUH CV	CABINET UNIT HEATER CONSTANT VOLUME / CONTROL VALVE	PC	PUMPED CONDENSATE - PSIG PRESSURE DROP		SUPPLY AIR DESIGNATION
CVB CWR	CONSTANT VOLUME BOX CONDENSER WATER RETURN	PERF	PERFORATED PHASE	PI	PING SYMBOLS
CWS DA	CONDENSER WATER SUPPLY DIRECT ACTING	PHC PNFU	PREHEAT COIL PNFUMATIC		
DB DC	DRY BULB DUST COLLECTOR	PRV PSF	PRESSURE REDUCING VALVE POUNDS PER SQUARE FOOT	SYMBOL	DESCRIPTION
ddc Deh	DIRECT DIGITAL CONTROLS DEHUMIDIFIER	PSIA PSIG	POUNDS PER SQUARE INCH ABSOLUTE POUNDS PER SQUARE INCH GAUGE		MANUAL BALANCING VALVE WITH PRESS SEE SPECIFICATIONS FOR TYPE
dhws/r dia./ø	DOMESTIC HOT WATER SUPPLY / RETURN DIAMETER	PT PVC	PRESSURE TRANSMITTER POLYVINYL CHLORIDE		BALL VALVE GATE VALVE
diff Disch	DIFFERENTIAL DISCHARGE	(R) RA	REMOVE EXISTING RETURN AIR OR REVERSE ACTING		GLOBE VALVE
DL DN	DOOR LOUVER DOWN	RAD	RADIATION RADIANT CEILING PANEL	—h—	BUTTERFLY VALVE
dr Dwdi	DRAIN DOUBLE WIDTH DOUBLE INLET	RD (RE)	RETURN AIR DAMPER RELOCATE EXISTING		
DX D/L	DIRECT EXPANSION DRILLING AND LOOPING	RE REFR	RELIEF AIR REFRIGERANT		CHECK VALVE
(E) EAT	EXISTING TO REMAIN ENTERING AIR TEMPERATURE	RELD RF	RELIEF DAMPER RETURN AIR FAN		ANGLE SHUTOFF VALVE
EBB EC	ELECTRIC BASEBOARD RADIATION EVAPORATIVE CONDENSOR	RG RH	Return air grille Relative humidity		SEE SPECIFICATIONS FOR TYPE ANGLE BALANCING/SHUTOFF VALVE
ECC EDH	ECCENTRIC ELECTRIC DUCT HEATER	RHC RHG	REHEAT COIL REFRIGERANT HOT GAS		SEE SPECIFICATIONS FOR TYPE
EDR EF	EQUIVALENT DIRECT RADIATION EXHAUST FAN	RL RO	REFRIGERANT LIQUID ROOF OPENING		TRIPLE DUTY VALVE COMBINATION BALANCING/SHUTOFF VALV
EG EGE	EXHAUST GRILLE EMERGENCY GENERATOR EXHAUST	RPM RR	REVOLUTIONS PER MINUTE RETURN AIR REGISTER		W/PRESSURE TAPS
EJ EMCS	ELECTRIC HEATER EXPANSION JOINT ENERCY MONITOPING CONTROL SYSTEM	RS RTU	REFRIGERANT SUCTION ROOFTOP UNIT		SAFETY/RELIEF VALVE - PLAN AND ELE
EP FR	ELECTRIC-PNEUMATIC	RV S –	REFRIGERANT VENT STEAM – PSIG	Ť Nov	
ERU	ENERGY RECOVERY UNIT	SA SD	SUPPLY AIR SMOKE DAMPER OR SUPPLY DIFFUSER		PUMP - GENERIC
ESP FT	END SWITCH EXTERNAL STATIC PRESSURE EXPANSION TANK	SDA SEF	SOUND ATTENUATOR SMOKE EXHAUST FAN		PUMP - END SUCTION
EUH	ELECTRIC UNIT HEATER	SF SG	SUPPLY AIR FAN SUPPLY AIR GRILLE		BASKET STRAINER - ELEVATION AND PLAN
EX (F)	EXHAUST	SH SMD	SENSIBLE HEAT SMOKE DETECTOR	-+5+-	Y-STRAINER WITH PLUG
°F F	DEGREES FAHRENHEIT FILTER	SP SQ FT	STATIC PRESSURE SQUARE FEET SUDDIX AIR DECISTER	-++++++++++++++++++++++++++++++++++++++	Y-STRAINER WITH DRAIN VALVE
FC FCU	FORWARD CURVED OR FLEX CONN. FAN COIL UNIT	SRD	SAFETY RELIEF VALVE DISCHARGE SAFETY RELIEF VALVE		PRESSURE GAUGE WITH GAUGE COCK
FCV FD	FLOW CONTROL VALVE FLOOR DRAIN OR FIRE DAMPER	SS	STAINLESS STEEL STEAM		PRESSURE GAUGE WITH GAUGE COCK AND BOURDON TUBE
FG FH	FIBERGLASS FUME HOOD	SUCT SWSI	SUCTION SINGLE WIDTH SINGLE INLET	Π	
fhe Fla	FUME HOOD EXHAUST FULL LOAD AMPS	S/R T	SUPPLY AND RETURN THERMOSTAT	<u> </u>	THERMOMETER
F M FOB	FLOW METER FLAT ON BOTTOM	TAB TAD	TESTING AND BALANCING TRANSFER AIR DUCT		PRESSURE/TEMPERATURE TEST FITTING
FOR FOS	FUEL OIL RETURN FUEL OIL SUPPLY	tf Temp	TERMINAL AIR FILTER TEMPERATURE		FLOW METER PIPE UP AND DOWN
FOT FOV	FLAT ON TOP FUEL OIL VENT	th Therm	TOTAL HEAT THERMOMETER		tee connection – straight, down, /
FPB FP M	FAN POWERED BOX FEET PER MINUTE	tod Top	TOP OF DUCT TOP OF PIPE		UNION
FPS FRP	FEET PER SECOND FIBERGLASS REINFORCED PIPE	TOS TP	TOP OF STEEL TOTAL PRESSURE		END CAP
FS FT	FLOW SWITCH FEET OR FLASH TANK	TSP Π	TOTAL STATIC PRESSURE TEMPERATURE TRANSMITTER		BLIND FLANGE PIPE RELLOWS
FT/WG	FEET WATER GAUGE FLOAT & THERMOSTATIC TRAP	UC UH	UNDERCUT UNIT HEATER		PIPE ANCHOR
F&T	FINNED TUBE RADIATION FACE VELOCITY	UNO UNOCC	UNLESS NOTED OTHERWISE UNOCCUPIED		PIPE GUIDE (SLIDING)
F&T FTR FV		UV V	UNIT VENTILATOR VENT OR VOLTS		PIPE GUIDE (MOMENT)
F&T FTR FV FZ GPH	FREEZESTAT GALLONS PER HOUR		VACUUM		ELECTRICALLY HEAT TRACED PIPING
F&T FTR FV FZ GPH GPM GR	FREEZESTAT GALLONS PER HOUR GALLONS PER MINUTE GRILLE OR GLYCOL RETURN	VAC VAV	VARIABLE AIR VOLUME		$\Delta IR VENIT = (MANIJAL)$
F&T FTR FV FZ GPH GPM GR GRAV GS	FREEZESTAT GALLONS PER HOUR GALLONS PER MINUTE GRILLE OR GLYCOL RETURN GRAVITY GLYCOL SUPPLY	VAC VAV VB VD	VARIABLE AIR VOLUME VACUUM BREAKER MANUAL VOLUME DAMPER		AIR VENT - (MANUAL)
F&T FTR FV FZ GPH GPM GR GRAV GS GV H	FREEZESTAT GALLONS PER HOUR GALLONS PER MINUTE GRILLE OR GLYCOL RETURN GRAVITY GLYCOL SUPPLY GATE VALVE HUMIDISTAT	VAC VAV VB VD VEL VF	VARIABLE AIR VOLUME VACUUM BREAKER MANUAL VOLUME DAMPER VELOCITY VENTILATING FAN		AIR VENT – (MANUAL) AUTOMATIC AIR VENT CONCENTRIC REDUCER
F&T FTR FV FZ GPH GPM GR GRAV GS GV H HC HD	FREEZESTAT GALLONS PER HOUR GALLONS PER MINUTE GRILLE OR GLYCOL RETURN GRAVITY GLYCOL SUPPLY GATE VALVE HUMIDISTAT HEATING COIL HEAD	VAC VAV VB VD VEL VF VFD VI	VARIABLE AIR VOLUME VACUUM BREAKER MANUAL VOLUME DAMPER VELOCITY VENTILATING FAN VARIABLE FREQUENCY DRIVE VIBRATION ISOLATOR		AIR VENT — (MANUAL) AUTOMATIC AIR VENT CONCENTRIC REDUCER ECCENTRIC REDUCER
F&T FTR FV FZ GPH GPM GR GRAV GS GV H HC HD HEPA	FREEZESTAT GALLONS PER HOUR GALLONS PER MINUTE GRILLE OR GLYCOL RETURN GRAVITY GLYCOL SUPPLY GATE VALVE HUMIDISTAT HEATING COIL HEAD HIGH EFFICIENCY PARTICULATE ARRESTANCE FILTER	VAC VAV VB VD VEL VF VFD VI VIB VIV	VARIABLE AIR VOLUME VACUUM BREAKER MANUAL VOLUME DAMPER VELOCITY VENTILATING FAN VARIABLE FREQUENCY DRIVE VIBRATION ISOLATOR VIBRATION VARIABLE INLET VANES		AIR VENT - (MANUAL) AUTOMATIC AIR VENT CONCENTRIC REDUCER ECCENTRIC REDUCER STEAM TRAP - FLOAT AND THERMOSTAT
F&T FTR FV FZ GPH GPM GR GRAV GS GV H HC HD HEPA HL HOA	FREEZESTAT GALLONS PER HOUR GALLONS PER MINUTE GRILLE OR GLYCOL RETURN GRAVITY GLYCOL SUPPLY GATE VALVE HUMIDISTAT HEATING COIL HEAD HIGH EFFICIENCY PARTICULATE ARRESTANCE FILTER HIGH LIMIT HAND-OFF AUTOMATIC SELECTOR SWITCH	VAC VAV VB VD VEL VF VFD VI VIB VIV VP VTR	VARIABLE AIR VOLUME VACUUM BREAKER MANUAL VOLUME DAMPER VELOCITY VENTILATING FAN VARIABLE FREQUENCY DRIVE VIBRATION ISOLATOR VIBRATION VARIABLE INLET VANES VACUUM PUMP VENT THROUGH ROOF		AIR VENT - (MANUAL) AUTOMATIC AIR VENT CONCENTRIC REDUCER ECCENTRIC REDUCER STEAM TRAP - FLOAT AND THERMOSTAT STEAM TRAP - BUCKET STEAM TRAP - THERMOSTATIC
F&T FTR FV FZ GPH GPM GR GRAV GS GV H HC HD HEPA HL HOA H/O	FREEZESTAT GALLONS PER HOUR GALLONS PER MINUTE GRILLE OR GLYCOL RETURN GRAVITY GLYCOL SUPPLY GATE VALVE HUMIDISTAT HEATING COIL HEAD HIGH EFFICIENCY PARTICULATE ARRESTANCE FILTER HIGH LIMIT HAND-OFF AUTOMATIC SELECTOR SWITCH HAND-OFF SELECTOR SWITCH WITH PILOT LIGHT	VAC VAV VB VD VEL VF VFD VI VIB VIV VP VTR WB WC	VARIABLE AIR VOLUME VACUUM BREAKER MANUAL VOLUME DAMPER VELOCITY VENTILATING FAN VARIABLE FREQUENCY DRIVE VIBRATION ISOLATOR VIBRATION VARIABLE INLET VANES VACUUM PUMP VENT THROUGH ROOF WET BULB WATER COLUMN		AIR VENT - (MANUAL) AUTOMATIC AIR VENT CONCENTRIC REDUCER ECCENTRIC REDUCER STEAM TRAP - FLOAT AND THERMOSTAT STEAM TRAP - BUCKET STEAM TRAP - THERMOSTATIC STEAM TRAP - THERMODYNAMIC
F&T FTR FV FZ GPH GPM GR GRAV GS GV H HC HD HEPA HL HOA H/O HP HPC	FREEZESTAT GALLONS PER HOUR GALLONS PER MINUTE GRILLE OR GLYCOL RETURN GRAVITY GLYCOL SUPPLY GATE VALVE HUMIDISTAT HEATING COIL HEAD HIGH EFFICIENCY PARTICULATE ARRESTANCE FILTER HIGH LIMIT HAND-OFF AUTOMATIC SELECTOR SWITCH HAND-OFF SELECTOR SWITCH WITH PILOT LIGHT HORSEPOWER OR HEAT PUMP HIGH PRESSURE CONDENSATE	VAC VAV VB VD VEL VF VFD VI VIB VIV VP VTR WB WC WG WMS	VARIABLE AIR VOLUME VACUUM BREAKER MANUAL VOLUME DAMPER VELOCITY VENTILATING FAN VARIABLE FREQUENCY DRIVE VIBRATION ISOLATOR VIBRATION VARIABLE INLET VANES VACUUM PUMP VENT THROUGH ROOF WET BULB WATER COLUMN WATER GAUGE WIRE MESH SCREEN		AIR VENT - (MANUAL) AUTOMATIC AIR VENT CONCENTRIC REDUCER ECCENTRIC REDUCER STEAM TRAP - FLOAT AND THERMOSTAT STEAM TRAP - BUCKET STEAM TRAP - THERMOSTATIC STEAM TRAP - THERMOSTATIC PITCH OF PIPE, RISE (R) DROP (D)

	_		
LS	LINE I	DESIGNATIONS	APPLICABLE CODES & STANDARDS
	CHWS CHWS CHWR CWS	- CHILLED WATER SUPPLY - CHILLED WATER RETURN - CONDENSER WATER SUPPLY	THE FOLLOWING CODES AND STANDARDS APPLY TO THIS PROJECT: 1. INTERNATIONAL BUILDING CODE (IBC) 2021, NJ EDITION.
	CWR	- CONDENSER WATER RETURN	3. INTERNATIONAL MECHANICAL CODE (IMC) 2021.
)	HWS	- HOT WATER SUPPLY - HOT WATER RETURN	 INTERNATIONAL FUEL GAS CODE (IFGC) 2021. NATIONAL STANDARD PLUMBING CODE (NSPC) 2021
D.	HPS	- HEAT PUMP SUPPLY	6. NFPA 70 – NATIONAL ELECTRICAL CODE (NEC) 2020
D,	HPR	- HEAT PUMP RETURN - GLYCOL SUPPLY	
D PER	GR	- GLYCOL RETURN	GENERAL PROJECT NOTES
RAIGHT	FOS	- FUEL OIL SUPPLY - FUEL OIL RETURN	
UND	FOV	- FUEL OIL VENT	THE FOLLOWING NOTES APPLY TO ALL "M" MECHANICAL DRAWINGS:
	GG	- NATURAL GAS - COIL CONDENSATE DRAIN	1. ALL WORK SHALL FOLLOW THE REFERENCED APPLICABLE CODES AS ADOPTED AND MODIFIED BY THE STATE OF NEW
UND	MU	- MAKE UP WATER	JERSEI. 2 ALL WORK CONTAINED WITHIN THE MECHANICAL DRAWINGS AND SPECIFICATIONS IS THE RESPONSIBILITY OF THE SINGLE
	RV	- REFRIGERANT VENT - REFRIGERANT LIQUID	PRIME CONTRACTOR UNLESS OTHERWISE NOTED.
	RS	- REFRIGERANT SUCTION	3. NOT ALL SYMBOLS, ABBREVIATIONS AND LINE DESIGNATIONS ARE NECESSARILY USED ON THIS PROJECT.
		(WITH SERVICE DESIGNATION)	4. ALL HVAC EQUIPMENT, DUCTWORK, PIPING, SUPPORTS AND ACCESSORY LOCATIONS AND ROUTING SHALL BE COORDINATED WITH ALL OTHER TRADES AND FIELD VERIFIED PRIOR TO INSTALLATION TO PROVIDE REQUIRED CLEARANCES FOR ALL OTHER
		 EXISTING PIPING/DUCTWORK TO BE REMOVED (WITH SERVICE DESIGNATION) 	SYSTEMS.
			5. SUPPLY, RETURN AND EXHAUST AIR OPENING LOCATIONS AND SIZES FOR ROOF MOUNTED MECHANICAL EQUIPMENT ARE SHOWN FOR DUCTWORK ROUTING ONLY. THE MECHANICAL CONTRACTOR SHALL VERIFY THE ACTUAL SIZES OF DUCT
	\cap		CONNECTIONS AND THE REQUIRED ROOF OPENING SIZES FOR THE ROOF MOUNTED EQUIPMENT AND COORDINATE THE FINAL LOCATION OF ROOF PENETRATIONS WITH THE GENERAL CONTRACTOR.
		UNITOLS	6. THE CONTRACTOR PROVIDING MECHANICAL TRADE WORK SHALL INSTALL ALL ROOF MOUNTED MECHANICAL EQUIPMENT
			CURBS AND FLASHING AND COORDINATE WITH THE CONTRACTOR PROVIDING GENERAL TRADES PRIOR TO THE APPLICATION OF THE BUILDING ROOFING. THE CONTRACTOR PROVIDING MECHANICAL TRADE WORK SHALL ALSO INSTALL ALL NECESSARY
N		\downarrow OA = OUTSIDE AIR SA = SUPPLY AIR	ROOF CURB COUNTER-FLASHING TO ACHIEVE A WATERTIGHT ROOFING SEAL.
		T RA = RETURN AIR SD = SMOKE DAMPER EA = EXHAUST AIR FS = FIRE/SMOKE RF = RELIFE AIR	7. DUCTWORK MAINS AND BRANCHES ARE SHOWN DIAGRAMMATICALLY AND FOR DESIGN CLARITY AND AT THE ROUM LEVEL ROUTING AND ARRANGEMENT IS SHOWN TO MINIMIZE NOISE CARRYOVER FROM MECHANICAL EQUIPMENT AND ADJOINING SDACES CONTRACTOR MAY DEODOSE DEDOUTING OFFERER DISES AND DEODS AS NECESSARY TO CLEAR INSTALLED
	_	BD = BACKDRAFT DAMPER	TRUSSES, JOISTS AND OTHER INTERFERENCES. FINAL DUCTWORK LAYOUT WILL BE APPROVED IN REQUIRED DUCTWORK
		THERMOSTAT - DUCT MOUNTED	SUIT FIELD CONDITIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
	0	THERMOSTAT - WALL MOUNTED	8. ALL PIPING/DUCTWORK/CONTROLS PENETRATING FIRE RATED PARTITIONS, WALLS AND CEILINGS SHALL BE SEALED ON BOTH
	H	HUMIDISTAT – DUCT MOUNTED	PIPE/DUCT/CONTROL CONDUIT HAS BEEN REMOVED THAT PREVIOUSLY PENETRATED A FIRE RATED PARTITION, WALL OR
	H	HUMIDISTAT – WALL MOUNTED	FIRE SEALANT TO MATCH EXISTING WALL FIRE RATING. ALL FIRESTOP SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH ASTM FRIA. REFER TO SOFCIEICATIONS FOR ADDITIONAL INFORMATION.
	FZ	FREEZESTAT (LOW TEMPERATURE DETECTOR)	CONTRACTOR SHALL RE-APPLY FIREDROCEING IN TVDE AND THICKNEES TO MATCH EVICTING IN ANY ADDAG WHEDE EVICTING
	I SP	STATIC PRESSURE SENSOR - DUCT MOUNTED	FIREPROOFING IS DAMAGED DO TO DEMOLITION OR NEW WORK ACTIVITIES. REFER TO ARCHITECTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
			10 CONTRACTOR SHALL COORDINATE THE REPLACEMENT OF MECHANICAL FOUIPMENT WITH THE FACILITIES STAFE AND THE
	୍ର କ୍ର କ୍ର	SPACE STATIC PRESSURE SENSOR	OWNER IN ADDITION TO ALL OTHER WORK BEING COMPLETED UNDER SEPARATE CONTRACTS. ALL ITEMS BEING REMOVED AS PART OF THE UPGRADES SHALL BE REMOVED FROM THE PREMISES AND DISPOSED OF IN ACCORDANCE WITH LOCAL
		AUTOMATIC CONTROL VALVE (2 - WAY)	REGULATIONS.
		AUTOMATIC CONTROL VALVE (3 – WAY)	11. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR IN REGARDS TO THE DISCONNECT AND RECONNECT OF ALL EQUIPMENT BEING REMOVED AND/OR REPLACED IN-KIND AS INDICATED ON THE CONTRACT
		SOLENOID VALVE	DOCUMENTS.
PRESSURE TAPS	FS	FLOW SWITCH	12. MECHANICAL CONTRACTOR SHALL FURNISH LOOSE MOTOR STARTERS AND DISCONNECT SWITCHES FOR INSTALLATION AND WIRING BY THE ELECTRICAL CONTRACTOR.
		CO2 SENSOR	13. ELECTRICAL COORDINATION: CONTRACTOR PROVIDING MECHANICAL TRADE WORK SHALL COORDINATE VOLTAGES FOR EACH
		CO DETECTOR	PIECE OF EQUIPMENT BEFORE PURCHASING EQUIPMENT WITH CONTRACTOR PROVIDING ELECTRICAL TRADE WORK.
	\$	SWITCH	14. HVAC TESTING & BALANCING (AIR & WATER) IS A PART OF THIS CONTRACT. CONTRACTOR SHALL SUBMIT SIGNED AND SEALED TEST & BALANCE REPORTS, REFER TO PROJECT BOOK SPECIFICATIONS FOR DETAILS.
			15. CONTRACTOR SHALL PROVIDE FLEXIBLE CONNECTIONS AT ALL DUCT CONNECTIONS TO EQUIPMENT. IF DUCT CONNECTION TO
			SHALL PROVIDE FLEX CONNECTIONS FOR ALL DUCT CONNECTING WITH A HARD CONNECTION TO EQUIPMENT.
		JWG. STWDULS	16. ALL EXISTING WALLS, CEILINGS, ROOF, FLOORS AND OTHER FINISHED SURFACES DAMAGED OR MODIFIED SHALL BE REPAIRED TO MATCH ADJACENT UNDISTURBED AREA. PATCH AND REPAIR SHALL MATCH EXISTING ADJACENT SURFACES AS
			TO THICKNESS, TEXTURE, MATERIALS AND COLOR. ALL ABANDONED OPENINGS SHALL BE PATCHED AND REPAIRED TO MATCH ADJACENT UNDISTURBED AREA AND ARCHITECTURE. ALL ROOF PENETRATIONS SHALL BE PERFORMED SUCH THAT WARRANTY
		POINT OF CONNECTION	IS MAINTAINED.
E		POINT OF DISCONNECT	17. CONTRACTOR SHALL REMOVE, STORE AND RE-INSTALL ALL CEILING TILES AS REQUIRED TO ACCESS ABOVE CEILING AREAS TO ROUTE NEW PIPING OR INSTALL EQUIPMENT. CONTRACTOR SHALL SUPPLY MATCHING CEILING TILES FOR ANY BROKEN
		Point of connection for future work	TILES THAT OCCUR DURING THE CONSTRUCTION.
F VALVE		- EQUIPMENT SYMBOL	18. CONTRACTOR SHALL MODIFY SPRINKLER PIPING SYSTEMS AS REQUIRED TO ALLOW NEW EQUIPMENT INSTALLATION AND DUCTWORK MODIFICATIONS. WORK SHALL BE PERFORMED BY A CERTIFIED SPRINKLER CONTRACTOR.
		- EQUIPMENT NUMBER OR FLOW (GPM,CFM,ETC.)	19. ALL NECESSARY STAGING AND MATERIAL STORAGE AREAS SHALL BE AS DIRECTED AND APPROVED BY THE OWNER.
ND ELEVATION		DETAIL NOMBER DETAIL DRAWING NUMBER	20. ALL SYSTEMS THAT NEED TO BE DRAINED SHALL BE COORDINATED WITH THE OWNER.
			21. ALL WORK SHALL BE PERFORMED TO NOT INTERFERE WITH THE NORMAL OPERATION OF THE FACILITIES. COORDINATE ANY NECESSARY SHUTDOWNS WITH THE FACILITY, MINIMIZE SHUTDOWNS TO LIMIT IMPACT OF INTERRUPTION OF COOLING.
		- Section drawing number	HEATING, DHW AND ELECTRICAL SERVICE TO THE FACILITY.
		Plan NUMBER	22. ALL MEANS OF EGRESS MUST BE KEPT FREE AND CLEAR OF ALL MATERIAL.
			23. VERIFY ALL CONDITIONS, ELEVATIONS AND MEASUREMENTS SHOWN ON CONTRACT DRAWINGS. ALL DIMENSIONS AND ELEVATIONS FOR NEW AND EXISTING EQUIPMENT, PIPING AND APPARATUS ARE APPROXIMATE AND ARE ONLY FOR
		KEYED DEMOLITION NOTE	REFERENCE. SUBMIT SHOP DRAWINGS SHOWING ALL DIMENSIONS AND ELEVATIONS VERIFIED IN THE FIELD.
			24. CONTRACTOR SHALL TEMPORARILY RELOCATE ALL PIPING, ELECTRICAL CONDUITS, LIGHTING, CONTROLS, ETC., TO ACCOMMODATE WORK UNDER THIS CONTRACT. RESTORE TO INITIAL OPERATING CONDITION AND FUNCTION UPON COMPLETION
	-	KEYED NEW WORK NOTE	OF WORK, EXISTING FIFTING IN WORK AREA SMALLER THAN Z AND CONDUITS SMALLER THAN 1" ARE NOT EXPLICITLY SHOWN. CONDUCT FIELD SURVEY AS REQUIRED TO DETERMINE EXISTING CONDITIONS.
ОСК			25. PROVIDE VALVED DRAINS ON ALL WATER PIPING SYSTEM LOW POINTS AND AS REQUIRED ON NEW EQUIPMENT. PROVIDE AIR VENTS AT PIPING SYSTEM HIGH POINTS AS REQUIRED FOR RELEASING AIR DURING STAPTUP
ОСК			26 NO PIPING SMALLER THAN 3/4" EXCEPT AS NOTED
			27. PROVIDE WIRING AND RACEWAYS RELATED TO CONTROL OF MECHANICAL FOLLIDMENT PACEWAYS TO BE MINIMUM 3/4" DIOLD
			CONDUIT.
TTING			28. CONTRACTOR SHALL REFER TO SPECIFICATIONS FOR MATERIAL PIPE SIZE & MATERIAL TYPE BY SYSTEM. FOR SYSTEMS REQUIRING DISISIMILAR METALS CONTRACTOR SHALL PROVIDE GALVANIC CORROSION AND CATHODIC PROTECTION (DIFLECTRIC
			UNION, DIELECTRIC FITTING, ETC.) IN ACCORDANCE WITH THE SPECIFICATIONS.
			29. CONTRACTOR IS RESPONSIBLE FOR CONDUCTING WALK—THROUGH OF SITE PRIOR TO SUBMITTING BID TO BE FAMILIAR WITH SITE CONDITIONS AND REQUIREMENTS.
			30 THE CONTRACTOR SHALL PROVIDE ALL REQUIRED CALCULATIONS (SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE
			STATE OF NEW JERSEY) AND INSTALLATION INFORMATION TO SHOW COMPLIANCE WITH SEISMIC AND WIND FORCES IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE 2021 NJ EDITION INFORMATION SHALL BE MADE AVAILABLE TO
			ENGINEER FOR REVIEW AND ALSO, MADE AVAILABLE UPON REQUEST FOR SUBMISSION TO CODE ENFORCEMENT. PROVIDE ALL SUPPORT SYSTEMS SUPPLEMENTAL STEEL ANCHORS PIPE HANGERS AND ENGINEERING DOCUMENTATION NECESSARY
			TO PROVIDE A COMPLETE CODE COMPLIANT SYSTEM.
			SCOPE OF WORK INFORMATION
10			
IG			
			PROJECT SCOPE OF WORK:
			1. ALL WORK CONTAINED WITHIN THE DRAWINGS AND SPECIFICATIONS IS THE RESPONSIBILITY OF THE SINGLE PRIME CONTRACTOR, UNLESS OTHERWISE NOTED. REFER TO INDIVIDUAL DRAWING SHEFTS AND SPECIFICATIONS FOR SPECIFIC REQUIREMENTS
			2. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS OF THE PROJECT
MOSTATIC			3. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR SPECIFIC MECHANICAL REQUIREMENTS AND COORDINATION.
			4. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR SPECIFIC ARCHITECTURAL REQUIREMENTS AND COORDINATION.
			5. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR SPECIFIC ELECTRICAL REQUIREMENTS AND COORDINATION.
			6. REFER TO PLUMBING DRAWINGS AND SPECIFICATIONS FOR SPECIFIC PLUMBING REQUIREMENTS AND COORDINATION.
(D)			

DRAWING SHEET INDEX

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SHEET NO.	DRAWING NUMBER	DRAWING TITLE	SCALE	DATE	12/19/2024
1	M-001	MECHANICAL LEAD SHEET	NTS		x
2	MD-101	MECHANICAL PARTIAL DEMOLITION PLANS - CAFÉ AND GYMNASIUM TOILET ROOMS	1/4"=1'-0"		x
3	MD-102	MECHANICAL PARTIAL DEMOLITION ROOF PLAN - CAFÉ AND GYMNASIUM TOILET ROOMS	1/8"=1'-0"		x
4	M-101	MECHANICAL PARTIAL NEW WORK PLANS - CAFÉ AND GYMNASIUM TOILET ROOMS	1/4"=1'-0"		x
5	M-102	MECHANICAL PARTIAL NEW WORK ROOF PLAN - CAFÉ AND GYMNASIUM TOILET ROOMS	1/8"=1'-0"		x
6	M-301	MECHANICAL SCHEDULES AND DETAILS	NTS		x

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DRAWN BY: DATE:

EQUIPMENT REPLACEMENT NOTES:

<u>GENERAL NOTES</u>:

- 1. REFER TO MECHANICAL LEAD SHEET, M-001 FOR "NOTES" THAT PERTAIN TO THE SCOPE OF THIS PROJECT.
- 2. CONTRACTOR SHALL COORDINATE THE REPLACEMENT OF MECHANICAL EQUIPMENT WITH THE OWNER AND OTHER WORK BEING COMPLETED UNDER SEPARATE CONTRACTS. ALL ITEMS REMOVED FROM THE EQUIPMENT AS PART OF THE REPLACEMENT SHALL BE REMOVED FROM THE PREMISES AND DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS.
- 3. CONTRACTOR SHALL COORDINATE AND SCHEDULE THE DRAINING OF ANY HYDRONIC SYSTEMS WITH THE FACILITIES MANAGER AND OWNER.
- 4. CONTRACTOR SHALL SUBMIT TO ARCHITECT & ENGINEER PRODUCT DATA FOR ALL ITEMS THAT ARE TO BE INCLUDED IN THE REPLACEMENT FOR REVIEW PRIOR TO COMMENCING WORK.

SCOPE OF DEMOLITION NOTES:

- DEMOLISH AND REMOVE EXISTING EXHAUST FAN(S) IN ITS ENTIRETY. EXISTING CURBS TO REMAIN. SAFELY DISCONNECT AND SAFE OFF ELECTRICAL POWER IN ACCORDANCE WITH NEC GUIDELINES. REFER TO ELECTRICAL DRAWINGS FOR FURTHER ELECTRICAL REQUIREMENTS. DEMOLISH AND REMOVE ALL CONTROL WIRING AND CONDUIT BACK TO SOURCE. DISCONNECT DUCTWORK AND REMOVE ALL ASSOCIATED HANGERS AND APPURTENANCES.
- 2. DEMOLISH AND REMOVE ALL DUCTWORK ASSOCIATED WITH EXISTING EXHAUST FANS. REMOVE ALL HANGERS, DAMPERS, EXHAUST GRILLES, ACCESSORIES, AND ALL ASSOCIATED APPURTENANCES.
- 3. REMOVE EXISTING EXHAUST AND TRANSFER GRILLES. DEMOLISH ALL WHERE INDICATED ON PLANS AND EXHAUST DUCTWORK BETWEEN GRILLE AND FAN ON ROOF ABOVE. WHERE APPLICABLE, PATCH AND PAINT EXISTING SURFACES TO MATCH EXISTING.

DRAWN BY DATE:

EQUIPMENT REPLACEMENT NOTES:

- <u>GENERAL NOTES</u>: 1. REFER TO MECHANICAL LEAD SHEET, M-001 FOR "NOTES" THAT PERTAIN TO THE SCOPE OF THIS PROJECT.
- 2. CONTRACTOR SHALL COORDINATE THE REPLACEMENT OF MECHANICAL EQUIPMENT WITH THE OWNER AND OTHER WORK BEING COMPLETED UNDER SEPARATE CONTRACTS. ALL ITEMS REMOVED FROM THE EQUIPMENT AS PART OF THE REPLACEMENT SHALL BE REMOVED FROM THE PREMISES AND DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS.
- 3. CONTRACTOR SHALL COORDINATE AND SCHEDULE THE DRAINING OF ANY HYDRONIC SYSTEMS WITH THE FACILITIES MANAGER AND OWNER.
- 4. CONTRACTOR SHALL SUBMIT TO ARCHITECT & ENGINEER PRODUCT DATA FOR ALL ITEMS THAT ARE TO BE INCLUDED IN THE REPLACEMENT FOR REVIEW PRIOR TO COMMENCING WORK.

SCOPE OF DEMOLITION NOTES:

 DEMOLISH AND REMOVE EXISTING EXHAUST FAN IN ITS ENTIRETY. SAFELY DISCONNECT AND SAFE OFF ELECTRICAL POWER PER NEC GUIDELINES. REFER TO ELECTRICAL DRAWINGS FOR FURTHER ELECTRICAL REQUIREMENTS. EXISTING CURB TO REMAIN. PREPARE EXISTING CURB TO RECEIVE NEW ADAPTABLE CURB UNDER NEW WORK. COORDINATE ALL ROOFING WORK WITH ROOF MANUFACTURER AND ARCHITECT TO MAINTAIN ANY EXISTING ROOF WARRANTY.

1. FURNISH AND INSTALL NEW EXHAUST FAN(S) WHERE INDICATED ON PLANS. INSTALL NEW EXHAUST FAN WITH CURB ADAPTER ON EXISTING ROOF CURB. MC SHALL FIELD VERIFY EXISTING ROOF CURB DIMENSIONS PRIOR TO ORDERING NEW EXHAUST FAN. SAFELY CONNECT ELECTRICAL POWER IN ACCORDANCE WITH NEC GUIDELINES. REFER TO ELECTRICAL DRAWINGS FOR FURTHER ELECTRICAL REQUIREMENTS. PROVIDE ALL CONTROL WIRING AND CONDUIT REQUIRED FOR THE OPERATION OF EXHAUST FANS. CONNECT NEW DUCTWORK AND PROVIDE ALL ASSOCIATED HANGERS AND APPURTENANCES.

SCOPE OF NEW WORK NOTES:

- D. CONTRACTOR SHALL PATCH, REPAIR, & PAINT AREAS OF EXISTING CONSTRUCTION WHERE EQUIPMENT HAS BEEN REMOVED. COORDINATE WITH ARCHITECT AND OWNER TO MATCH EXISTING CONSTRUCTION AND FINISHES.
- C. CONTRACTOR SHALL SUBMIT TO OWNER AND ENGINEER PRODUCT DATA FOR ALL ITEMS THAT ARE TO BE INCLUDED IN THE REPLACEMENT FOR REVIEW PRIOR TO COMMENCING WORK.
- B. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF NEW MECHANICAL EQUIPMENT WITH OTHER TRADES SO AS NOT TO AFFECT THE OPERATION OF EXISTING SYSTEMS. PARTICULAR ATTENTION SHALL BE GIVEN TO UTILITY SERVICES, ELECTRIC, WATER AND Building Utilities.
- A. REFER TO MECHANICAL LEAD SHEET, M-001 FOR "NOTES" THAT PERTAIN TO THE SCOPE OF THIS PROJECT.

GENERAL NOTES:

NEW WORK SYSTEM NOTES:

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CAL	OPER		BASIS OF	DESIGN	
AMPS	WEIGHT (LBS)	dBA	MANUFACTURER	MODEL NUMBER	NOTES
3.8	62	7.1/54	GREENHECK	G-099-VG	1,2,3,4,5,6,7
8.2	82	7.2/54	GREENHECK	G-140-VG	1,2,3,4,5,6,7

	SHAWNEE	HIGH	SCHO	DOL - LRH	SD - V		ON SCHEI	DULE			
ROOM		BREATHI OA CALC VB (Rp*Pz)+	NG ZONE CULATION BZ= + (Ra*Az)	ZONE OA CALCULATION VOZ = VBZ / EZ	ſ	EXHAUST CALCUL	ATION	DES	SIGN AIRFL	ows	
NUMBER	ROOM NAME	A _z FLOOR AREA (SF)	P _Z NO. OF PEOPLE (QTY)	Pz V _{oz} NO. OF ZONE OUTDOOR EOPLE AIRFLOW (QTY) (CFM)		EA RATE (CFM / FIXTURE) OR (CFM/SF)	CALCULATED EXHAUST AIRFLOW (CFM)	OUTDOOR AIRFLOW (CFM)	EXHAUST AIRFLOW (CFM)	TRANSFER AIRFLOW (CFM)	NOTES
B100-1-M	LAVATORY - BOYS	147	-	-	2	70	140	-	140	140	-
B100-2-G	LAVATORY - GIRLS	144	-	-	3	70	210	-	210	210	-
	TOTALS:	291						0	350	350	-
B100-5-G	LAVATORY - GIRLS	255	-	-	7	70	490	-	490	490	-
B100-6-B	LAVATORY - BOYS	354	-	-	5	70	350	-	350	350	-
B100-7	LAVATORY	81	-	-	1	70	70	-	70	70	-
	TOTALS:	690						0	910	910	-

			7 (11						
					NC		BASIS OF DESIGN		
SYMBOL	SERVICE	TYPE	CFM RANGE	NECK SIZE	(@ MAX CFM)	FACE OVERALL DIMENSIONS WxL (IN.)	MANUFACTURER	MODEL NUMBER	
ER-1	EXHAUST	DUCT MOUNT	0-300	10X10	23	12X12	PRICE	630	
TG-1	TRANSFER	DUCT MOUNT	0-210	16X10	-	18X12	PRICE	630	
TG-2	TRANSFER	DUCT MOUNT	141-550	14X14	-	16X16	PRICE	630	
TG-3	TRANSFER	DUCT MOUNT	350-490	22X10	-	24X12	PRICE	530	

NOTES:

1. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS. 2. MOUNTING FRAME TYPE SHALL BE COORDINATED WITH THE CEILING/WALL CONSTRUCTION TYPE.

3. FLEXIBLE DUCTS CONNECTING TO THE DIFFUSERS SHALL BE FULL SIZE OF NECK DIAMETER AND NOT EXCEED 8' IN LENGTH. 4. DIFFUSERS SHALL BE 4-WAY BLOW UNLESS OTHERWISE INDICATED ON PLANS

5. PROVIDE SQUARE TO ROUND NECK ADAPTERS IF REQUIRED

6. ALL GRILLES MOUNTED IN CEILINGS, SOFFITS, OR WALLS SHALL HAVE BAKED WHITE ENAMEL FINISH OR COLOR AS SELECTED BY ARCHITECT. FINAL COLORS TO BE DETERMINED POST AWARD. ALL GRILLES MOUNTED ON GALVANIZED EXPOSED DUCTWORK SHALL BE ORDERED 'PRIMED TO BE PAINTED IN FIELD'

7. PROVIDE BUILT IN DAMPER (630D) FOR ALL EXHAUST GRILLES LOCATED WITHIN INACCESIBLE CEILINGS

* EQUALS 1/4 WIDTH OF BRANCH DUCT MINIMUM 4".

3. MINIMUM ACCESS DOOR SIZE SHALL BE 12x12, UNLESS OTHERWISE NOTED.

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AIR TERMINAL DEVICE SCHEDULE

GENERAL SPECIFICATIONS

ALL PLUMBING SHALL COMPLY WITH THE 2021 EDITION OF THE NATIONAL STANDARD PLUMBING CODE AS ADOPTED BY THE STATE OF NEW JERSEY.

CONTRACTOR SHALL PROVIDE AND PAY ALL FEES AND PERMITS.

THE DRAWINGS ARE INTENDED TO SHOW APPROXIMATE AND RELATIVE LOCATIONS OF MATERIALS AND EQUIPMENT. DRAWINGS SHALL NOT BE SCALED TO DETERMINE EXACT POSITIONS AND CLEARANCES. BECAUSE OF DIAGRAMMATIC LAYOUT AND SMALL SCALE OF DRAWINGS, NOT ALL RISES, DROPS, OFFSETS, VENTS, TRAPS AND RELATED SPECIALTIES ARE INDICATED. PROVIDE ALL SUCH PIPING, FITTINGS, VALVES AND SPECIALTIES REQUIRED IN SUCH CASES TO INSURE A COMPLETE AND PROPERLY OPERATING INSTALLATION IN ACCORDANCE WITH CODES AND WITHOUT EXTRA

WORK SHALL BE PERFORMED BY MECHANICS SKILLED IN PARTICULAR TRADE INVOLVED, THAT IS, PLUMBING WORK SHALL BE PERFORMED BY PLUMBERS, ELECTRICAL WORK SHALL BE PERFORMED BY ELECTRICIANS, MECHANICAL WORKED PERFORMED BY STEAM FITTERS AND SHEET METAL MECHANICS.

ALL WORK SHALL BE INSPECTED, TESTED AND APPROVED BY THE PROPER AUTHORITIES HAVING JURISDICTION. CERTIFIED COPIES OF THESE APPROVALS SHALL BE DELIVERED TO THE OWNER BEFORE FINAL PAYMENT.

SLEEVES SHALL BE INSTALLED THROUGH FLOORS AND FIRE RATED WALLS. SLEEVES SHALL BE 2 PIPE SIZES LARGER THAN PIPE PASSING THRU AND SHALL BE SCHEDULE 40 STEEL PIPE. PROVIDE FIRE PROOF SEAL BETWEEN PIPES AND SLEEVES WHEN PASSING THRU FIRE RATED WALLS/FLOORS. SLEEVES PASSING THRU FLOORS SHALL BE EXTENDED 4" ABOVE FLOOR.

ESCUTCHEON PLATES SHALL BE PROVIDED ON ALL PIPE WHICH PASS THROUGH WALL PARTITIONS, FLOORS OR CEILINGS. PLATES SHALL BE ONE PIECE, CHROME FINISHED BRONZE.

COREDRILLING SHALL BE ACCOMPLISHED BY MECHANICAL MEANS IN A MANNER THAT WILL NOT AFFECT THE INTEGRITY OF THE STRUCTURE. AFTER INSTALLATION OF PIPING THRU THE COREDRILL, PACK THE ANNULAR SPACE WITH OAKUM OR FIBROUS GLASS, LEAVING A MINIMUM OF TWO INCHES AT EACH END TO BE FILLED AND FINISHED WITH A "FIRE BARRIER" MATERIAL EQUAL TO 3M "PENETRATION SEALING SYSTEMS" SUCH AS "CP-25 CAULK", "303 PUTTY" OR "FS-195 WRAP". APPLICATION OF "FIRE BARRIER" MATERIAL SHALL BE IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND APPLICABLE CODES.

PROVIDE COPIES OF ALL TEST REPORTS TO OWNER.

10. FLUSH VALVE/TANK HANDLES FOR HANDICAPPED WATER CLOSETS SHALL FACE WIDE SIDE OF STALL/ROOM. COORDINATE LOCATION OF ALL ABOVE CEILING PIPING WITH MECHANICAL, ELECTRICAL & FIRE PROTECTION

CONTRACTORS PRIOR TO INSTALLATION. 2. IF CONFLICT ARISES BETWEEN ITEMS SHOWN ON DRAWINGS AND ITEMS SPECIFIED, THE MOST STRINGENT ITEM SHALL

3. THE INSTALLATION OF ALL INSULATION SHALL BE PERFORMED BY AN EXPERIENCED CRAFTSMAN IN A NEAT WORKMAN-LIKE MANNER AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS FOR SERVICE INTENDED.

14. ALL NEW PLUMBING FIXTURES SHALL MEET THE APPROPRIATE "ANSI" STANDARDS LISTED IN THE PLUMBING SUBCODE. USE OF SUBSTANDARD AND NON-CONFORMING FOREIGN MADE PRODUCTS IS PROHIBITED. 15. ALL PLUMBING SYSTEMS AND VALVES SHALL BE LABELED FOR PROPER IDENTIFICATION. NAMEPLATES, METAL TAGS, &

PLASTIC PIPE MARKERS SHALL BE IN ACCORDANCE WITH BRIMAR IDENTIFICATION & SAFETY PRODUCTS, BRIMAR

16. INSULATE EXPOSED WASTE & WATER PIPING BELOW HANDICAPPED LAVATORIES WITH PLUMBEREX "PRO-EXTREME" FORM FIT INSULATING COVERS. 7. HANDICAPPED FIXTURE HEIGHTS SHALL BE IN ACCORDANCE WITH ICC/ANSI A-117.1.

18. ALL PLUMBING FIXTURES SHALL BE PROVIDED WITH CHROME PLATED SHUT OFF VALVES (ANGLE STOPS), CHROME

HANGERS & SUPPORTS

HANGERS AND ANCHORS SHALL BE SECURELY ATTACHED TO BUILDING CONSTRUCTION AT SUFFICIENTLY CLOSE INTERVALS TO SUPPORT PIPING AND ITS CONTENTS.

(A) VERTICAL PIPING FOR CAST IRON SHALL BE SUPPORTED AT BASE AND AT EACH STORY HEIGHT BUT NOT MORE THAN 15 FOOT INTERVALS. (B) VERTICAL PIPING FOR COPPER SHALL BE SUPPORTED AT EACH STORY HEIGHT BUT NOT MORE THAN 10 FOOT

INTERVALS. (C) VERTICAL PIPING FOR STEEL SHALL BE SUPPORTED AT BASE AND AT EVERY OTHER STORY HEIGHT BUT NOT MORE THAN 15 FOOT INTERVALS. HORIZONTAL PIPING FOR CAST IRON SHALL BE SUPPORTED WITH MINIMUM ONE HANGER LOCATED WITHIN 18"

OF EACH JOINT, AT CHANGES IN DIRECTION, AND AT EACH BRANCH CONNECTION. WHERE PIPE IS SUSPENDED BY NON-RIGID HANGERS MORE THAN 18" LONG PROVIDE LATERAL SUPPORT. HORIZONTAL PIPING FOR COPPER SHALL BE SUPPORTED AT 6 FOOT INTERVALS FOR PIPE SIZES 1-1/4" AND SMALLER AND AT 10 FOOT INTERVALS FOR PIPE SIZES 1-1/2" AND LARGER. WHERE PIPE IS SUSPENDED BY

NON-RIGID HANGERS MORE THAN 18" LONG PROVIDE LATERAL SUPPORT. HORIZONTAL PIPING FOR STEEL SHALL BE SUPPORTED AT 12 FOOT INTERVALS FOR PIPE SIZES 1-1/4" AND SMALLER AND AT 12 FOOT INTERVALS FOR PIPE SIZES 1-1/2" AND LARGER. WHERE PIPE IS SUSPENDED BY

NON-RIGID HANGERS MORE THAN 18" LONG PROVIDE LATERAL SUPPORT. PLASTIC PIPE SHALL BE SUPPORTED AT INTERVALS OF NOT MORE THAN 4 FEET, AT END OF BRANCHES, AND CHANGES OF DIRECTION OR ELEVATION. SUPPORTS SHALL ALLOW FOR FREE MOVEMENT. VERTICAL PIPE SHALL BE MAINTAINED IN STRAIGHT ALIGNMENT. TRAP ARMS IN EXCESS OF 3 FEET SHALL BE SUPPORTED AS CLOSE TO TRAP AS POSSIBLE. CARE SHALL BE TAKEN NOT TO COMPRESS, DISTORT, CUT OR ABRADE PIPING.

2. ALL SUPPORTS COMING IN CONTACT WITH COPPER PIPING SHALL BE PLASTIC COATED.

3. INSTALL METAL SHIELDS ON HANGERS SUPPORTING INSULATED PIPE.

4. PROVIDE HANGERS THAT ARE U.L. LISTED AND LABELED.

5. ALL DOMESTIC WATER, STORM & SANITARY WASTE PIPE SUPPORTS SHALL BE IN ACCORDANCE WITH THE NATIONAL STANDARD PLUMBING CODE 2021 AS ADOPTED BY THE STATE OF NEW JERSEY.

PLUMBING SYSTEMS SHALL BE INSTALLED SO AS TO PREVENT STRAINS & STRESSES WHICH WILL EXCEED STRUCTURAL STRENGTH OF PIPE. PROVISIONS SHALL BE MADE FOR EXPANSION & CONTRACTION OF PIPING. ALL HANGERS LOCATED OUTSIDE OR IN CORROSIVE AREAS SHALL BE GALVANIZED.

ALL HANGERS ON GALVANIZED PIPE SHALL BE GALVANIZED.

8. MINIMUM ROD DIAMETER FOR SINGLE RIGID SUPPORTS SHALL BE AS FOLLOWS:

(A) FOR 1/4" THRU 2" PIPE: 3/8"DIAMETER (B) FOR 2 1/2" AND 3" PIPE: 1/2"DIAMETER

C) FOR 4" AND 5" PIPE: 5/8"DIAMETER D) FOR 6" PIPE: 3/4"DIAMETER

) FOR 8" THRU 12"PIPE: 7/8"DIAMETER

) FOR 14" THRU 18"PIPE: 1"DIAMETER (G) RODS MAY BE REDUCED ONE SIZE FOR DOUBLE ROD HANGERS (3/8"DIA MIN).

9. LONG RUNS OF DOMESTIC WATER PIPING SHALL BE SECURED TO AVOID MOVEMENT DUE TO PRESSURE

	ARREVIATIONS
ABV CLG	ABOVE CEILING
DF DIW FID	BAKKIEK-FKEE
	BELUW FLUUK
BED	
	DAUKFLUW PREVENIER
CW	
CONT	CONTINUE
CUNI	
	CULD WATER FIXTURE UNIT
	DRINKING FUUNTAIN DRAINACE EIVTUDE LINIT
	DRAINAGE FIXTURE UNIT
FC	
EVC	
EWC F	ELECTRICAL WATER COULER
FCO	
FD	
FM	
FNI	
FC	FIRE PROTECTION CONTRACTOR
	FLOUR SINK
r JEU	FOOD SERVICE CONTRACTOR
GU	
GI	
GPM	GALLONS PER MINUTE
GW LID	GREASE WASTE
	HOSE BIBB
	HANDICAPPED ACCESSIBLE
	HUI WAIER
	HUI WAIER FIXIURE UNII
1 41/	INDIRECT WASTE
	MECHANICAL CONTRACTOR
MIK	MOP RECEPTOR
M3	MUP SINK
MV N	MIXING VALVE
	PRESSURE REGULATING/REDUCING VALVE
	RUN ABOVE CEILING
	ROOF DRAIN/OVERFLOW ROOF DRAIN
SAN	SANITARY
2H 2H	SHOWER
SK SF	SINK
51	SQUARE FOOT
5/5	STAINLESS STEEL
I & P	TEMPERATURE & PRESSURE
TD	TRENCH DRAIN / TROUGH DRAIN
TW	TEMPERED WATER
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	VENT
VTR	VENT THRU ROOF
W/	WITH
WB	WASHING MACHINE SUPPLY & WASTE BOX
WC	WATER CLOSET
WCO	WALL CLEAN OUT
W/D	WASHER/DRYER
WH	

SUBMITTAL NOTE:

CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL PIPING, VALVES, EQUIPMENT, ETC IN ACCORDANCE WITH SPECIFICATIONS. NO WORK SHALL BEGIN UNTIL APPROVAL HAS BEEN OBTAINED FROM ARCHITECT/ENGINEER CONTRACTOR SHALL SUBMIT COORDINATION DRAWINGS 1/4" SCALE MINIMUM FOR REVIEW AND APPROVAL A 1 ABOVE.

"AS BUILT" CONSTRUCTION DRAWINGS NOT

CONTRACTOR SHALL PROVIDE (1) SET OF "AS-BUILT" DRAWINGS ON DISC IN PDF FORMAT TO ARCHITECT THE COMPLETION OF PROJECT. 2. TWO (2) SETS OF "AS-BUILT" DRAWINGS ON BLACKLINE PRINTS SHALL BE SUPPLIED TO THE ARCHITECT ARCHITECT'S AND ENGINEER'S USE AT THE PROJECT COMPLETION.

CONTINUITY OF EXISTING SYSTEMS

- ALL WORK SHALL BE PERFORMED AT SUCH TIME AND IN SUCH MANNER AS WILL LEAST INTERFERE WITH MAINTENANCE AND OPERATION OF OWNER'S ACTIVITIES. PROVISIONS SHALL BE MADE TO PERMIT OWNER'S USE OF ALL THE BUILDING AND OF EXISTING SYSTEMS AT ALL TIMES. PROVIDE TEMPORARY FACILITIES TO SECURE THESE CONDITIONS. REMOVE TEMPORARY FACILITIES WHEN PERMANENT WORK HAS BEEN PLACED INTO SERVICE.
- FULLY COORDINATE WITH ARCHITECT, OWNER AND ALL OTHER TRADES, ALL WORK INVOLVING SHUT-DOWN AND INTERRUPTION OF EXISTING SYSTEMS AND SERVICE.
- SHUT-DOWN OF EXISTING SERVICES WHERE REQUIRED TO INSTALL NEW SYSTEMS OR ALTER EXISTING SHALL BE PERFORMED IN A MANNER THAT WILL NOT INTERFERE WITH OWNER'S OPERATIONS. ALL COSTS FOR PERFORMING THIS WORK SHALL BE BORNE BY THE CONTRACTOR AND WITHOUT "EXTRA" COST TO THE OWNER.
- EXISTING SYSTEMS AND SERVICES THAT ARE TEMPORARILY DISCONNECTED, BUT ARE TO REMAIN IN USE, SHALL BE PERMANENTLY RECONNECTED AND RETURNED TO PROPER OPERATION.
- FULLY COORDINATE WITH ARCHITECT, OWNER AND OTHER TRADES TO ENSURE COMPLETE CONTINUITY OF ALL SYSTEMS AND SERVICES.

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and owner at For the

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							PLUN	IBING FIX	TURE SCH	HEDULE		
0)(450)		BASI	S OF DESIGN		CONNECT	TION SIZE			FAUCET/FL	USHOMETER		
SYMBOL	FIXTURE	MFGR	MODEL	WASTE	VENT	CW	нw	MOUNT	MFGR	MODEL	ELECTRICAL	
WC-1/1A	WATER CLOSET	AMERICAN STANDARD	AFWALL MILLENNIUM #3351.100	3''	2''	1-1/4''	-	WALL	AMERICAN STANDARD	ULTIMA #6147SM121.001	-	ELONGATED BOWL, TOP SPUD, PROVIDE #5 OPERATED FLUSH VALVE, 1.28 GPF, COLOR
LAV-1	LAVATORY	AMERICAN STANDARD	LUCERNE #0356.421	1-1/4''	1-1/4''	1/2''	1/2"	WALL	AMERICAN STANDARD	#1340.109	-	METERING FAUCET, 1.0 GPM, PROVIDE WITH #LFUSG-B, CHROME PLATED SUPPLY FITTIN BRASS P-TRAP WITH CLEANOUT, PROFLO L CARRIER FOR STUD WALL.
UR-1	URINAL	AMERICAN STANDARD	WASHBROOK #659001	1-1/4''	1-1/4''	1/2''	1/2''	UNDERMOUNT	AMERICAN STANDARD	SELECTRONIC #6063.061.002	-	TOP SPUD, BATTERY OPERATED FLUSH VAL
FD	FLOOR DRAIN	ZURN	#Z415B	3''	-	-	-	FLOOR	-	-	-	6" DIA NICKEL BRONZE STRAINER, WITH PRO
TBV	THERMOSTATIC BALANCING VALVE	CIRCUIT SOLVER	#CSUAS-1/2-110-CV1	-	-	-	1/2''	-	-	-	-	AUTOMATIC BALANCING VALVE W/ SHUTOF TEMPERATURE AND OPTIONAL CHECK VALV

P-002 SCALE: N.T.S.

IARKS			

#5901.100 OPEN FRONT SEAT, BATTERY R: WHITE

TH UNDER COUNTER MIXING VALVE - WATTS ING WITH STOPS, CHROME PLATED 17 GAUGE LAV GUARD #PF202WH. PROVIDE CONCEALED

ALVE, 0.5 GPF, COLOR WHITE.

ROSET WATERLESS TRAP PRIMER.

FFS AND STRAINER, 110°F CLOSING VE INSERTS.

DATE:

PLUMBING DEMOLITION NOTES:

- 1. REFER TO PLUMBING LEAD SHEET, P-000 FOR "NOTES" THAT PERTAIN TO THE SCOPE OF THIS PROJECT.
- 2. EXISTING CONCEALED AND EXPOSED EQUIPMENT AND MATERIALS THAT WILL BECOME ABANDONED DUE TO NEW WORK SHALL BE REMOVED BACK TO ACTIVE RISER AND MAIN AND PROPERLY PLUGGED OR CAPPED BEHIND FINISHED SURFACES.
- 3. WHERE PIPING PENETRATES AN EXISTING WALL OR SURFACE AND IS BEING ABANDONED IN PLACE, THE PIPING SHALL BE CUT BEYOND THE EXTERIOR SURFACE OF THE MATERIAL AND CAPPED. ONCE CAPPED, THE SURFACE SHALL BE PATCHED TO MATCH EXISTING SURFACES.
- 4. IN THE REMOVAL OF ANY PART OF A DRAINAGE OR WATER SYSTEM, DEAD ENDS SHALL BE AVOIDED EXCEPT WHERE NECESSARY TO EXTEND TO A CLEANOUT SO AS TO BE ACCESSIBLE.
- 5. CONTRACTOR SHALL VERIFY LOCATION, SIZE, AND ROUTING OF ALL PIPING PRIOR TO DEMOLITION. PLUMBING DRAWINGS ARE DIAGRAMMATIC AND MAY NOT BE AN EXACT REPRESENTATION OF FIELD CONDITIONS.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING SHUTOFF VALVES FOR DOMESTIC AND NATURAL GAS PIPING TO ISOLATE THE AREA OF WORK PRIOR TO DEMOLITION. 7. REMOVED EQUIPMENT AND MATERIALS NOT DESIRED BY OWNER SHALL BECOME
- PROPERTY OF CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM SITE. EQUIPMENT AND MATERIALS DESIRED BY OWNER SHALL BE DELIVERED BY CONTRACTOR TO AN ON-SITE LOCATION DESIGNATED BY OWNER.

DATE:

ABBR	EVIATION
.F.F. ABOVE DC ABOVE S., CND CONDU S.C. BELOW	FINISHED FLOOR DROP CEILING IT CEILING
WGDRAWINXEXISTINREXISTINWCELECTRTREXISTIN.P.C.FIRE PI, GNDGROUNENGENER/FCIGROUN.E.C.KITCHEWKILOVO.E.C.NATIONVCPOLYVIEREMOVIERELOC/WSWITCHVSSTRANS.O.N.UNLES:IG, U/GWIRE G//WEATHHPHASE	IG IG IG IG IG TO BE REMOVED IG TO REMAIN ROTECTION CONTRACTO D ATOR D FAULT CIRCUIT INTE N EQUIPMENT CONTRA TTS ILT AMPERES IAL ELECTRIC CODE NAL CHLORIDE CONDUI E ATE I IENT VOLTAGE SURGE S OTHERWISE NOTED GROUND GUARD ERPROOF
W FOUR N 5A 25 AM	
S AND GRAPHIC REPRESEN MOLITION REQUIRED. CONT FULLY EXAMINE EXISTING O LITION REQUIRED TO ACHIE IRED BY THE CONTRACT D SHALL BE COORDINATED VORK REQUIRED TO REMAIL RATIONS SHALL BE RELOC/ RIALS AND STANDARDS OF	JEMULIUS ITATIONS SHALL NOT L IRACTOR SHALL VISIT CONDITIONS AND SHALL EVE THE FINAL DESIGN OCUMENTS. EXTENT OF WITH THE OWNER & E N IN SERVICE BUT INTI ATED AND RECONNECTI THIS CONTRACT.
EQUIPMENT AND WIRING TO TO ANY DEMOLITION WOR MENT INDICATED TO BE RI DISPOSED OF IN ACCORDAT ONMENTAL REGULATIONS. TO THE OWNER SHALL BE TION. EDURE FOR FEEDERS AND VE CONDUIT AND WIRING T NEW WORK. INSTALL JUNC IFY WITH PANEL AND CIRC VORK SHALL BE PROPERLY) BE REMOVED SHALL K. EMOVED SHALL BE TAI NCE WITH APPLICABLE EQUIPMENT REQUIRED E PLACED IN A MUTUA BRANCH CIRCUITS TO TO LOCATIONS WHICH A TION BOXES, TAPE OF CUIT NUMBER. (IDENTIFIED AFTER DE LECT EQUIPMENT AND

BBREVIATION

BREVIATIONS	GENERAL ELECTRICAL NOTES			МС	DUNTING HEIGHT CHART - ELECTRICAL EQUIPMENT			
BOVE FINISHED FLOOR	1. SOME LEGEND SYMBOLS AND ELECTRICAL PROJECT NOTES MAY NOT BE USED. SEE PLANS FOR APPLICABLE DEVICES.	MOUNTING	HEIGHT (AFF)	EQUIPMENT SYMBOL (OR REFER TO DESCRIPTION, NEXT COLUMN)	DESCRIPTION OF EQUIPMENT (DEVICES, OUTLETS, ETC.)		REMARKS	
DNDUIT FLOW CFILING	2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE SPECIFICATION.	12'-	-0" U.O.N.		EXTERIOR WALL MOUNTED LIGHTING FIXTURES	SEE ARCH	ITECTURAL EI	EVATIO
CONNECT AWING	 ALL CIRCUIT BREAKERS SERVING HVAC EQUIPMENT SHALL BE UL LISTED AS 'HACR'. THE DRAWINGS ARE DIAGRAMMATIC. EXACT LOCATION OF EQUIPMENT. WIRING AND RACEWAYS SHALL BE 	10'	-0"/8'-6"		BATTERY OPERATED EMERGENCY LIGHTING UNITS OR REMOTE MOUNTED HEADS	OR 1' BEL HEIGHT IS	OW CEILING V LOWER	/HICH E
STING STING TO BE REMOVED	DETERMINED BY CONTRACTOR SUBJECT TO ENGINEER APPROVAL. 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ELECTRICAL CHARACTERISTICS OF ALL		8'-6"		PENDANT MOUNTED INDUSTRIAL AND STRIP LIGHTING FIXTURES			
TRIC WATER COOLER	NEW EQUIPMENT, MOTORS, ETC. BEFORE INSTALLING CABLING AND RACEWAY. IF THERE ARE ANY DISCREPANCIES BETWEEN THE ACTUAL RATING OF EQUIPMENT AT THE SITE AND THE DRAWINGS, THEN THE ENGINEER SHALL BE NOTIFIED.		8'-4"	н <u>в</u> -ф	WALL MOUNTED CLOCKS AND SPEAKERS	OR 9" BEL HEIGHT IS	.OW CEILING ' LOWER	NHICH I
PROTECTION CONTRACTOR	6. ALL EMPTY CONDUITS SHALL HAVE A PULL STRING INSTALLED.		7'-6"	He	TOP OF EXIT SIGNS (NOT MOUNTED ABOVE A DOOR)			
ator D Faui T circuit interrupter	8. ALL PANELS, WIRING DEVICES, BOXES, AND ENCLOSURES LOCATED OUTDOORS SHALL BE NEMA 3R, ALL	ENTIRE LENS 80"& NOT	NOT LESS THAN GREATER THAN		FIRE ALARM NOTIFICATION DEVICES			
IN EQUIPMENT CONTRACTOR	PANELS, WIRING DEVICES, BOXES, AND ENCLOSURES LOCATED INDOORS SHALL BE NEMA 1. 9. ALL FUSES IN DISCONNECT SWITCHES SHOWN SHALL BE CLASS RK-1, FAST ACTING, UNLESS		6'-6"	Г. Ю	CENTERLINE OF INTERIOR WALL MOUNTED FIXTURES			
LT AMPERES IAL ELECTRIC CODE	RECOMMENDED OTHERWISE BY THE EQUIPMENT SUPPLIER/MANUFACTURER. 10. THE ELECTRICAL CONTRACTOR TO PROVIDE MOUNTING SUPPORTS FOR ALL DISCONNECT SWITCHES. USE		6'-0"		MAXIMUM ELEVATION OF DISCONNECT SWITCHES, STARTERS AND CONTACTORS			
NAL CHLORIDE CONDUIT, SCHEDULE 40	P1000 UNISTRUT FOR ALL INDOOR SUPPORTS AND GALVANIZED P1000 UNISTRUT FOR ALL OUTDOOR SUPPORTS.		4'-6"	•	MAXIMUM ELEVATION OF WALL MOUNTED PHONES	3'-6" FOR	ADA DEVICES	;
ATE	11. ALL RACEWAYS PENETRATING FIRE RATED PARTITIONS, WALLS, AND CEILINGS SHALL BE SEALED USING APPROVED FIRE RATED SEALANT TO MATCH THE REQUIRED WALL FIRE RATING.		4'-0"		WALL MOUNTED WIREMOLD			
ENT VOLTAGE SURGE SUPRESSOR	DRAWINGS TO VERIFY CHARACTERISTICS OF ALL EQUIPMENT TO BE WRED. IF THE CONTRACTOR FINDS DISCREPANCIES BETWEEN THE SHOP DRAWINGS AND THE ELECTRICAL PLANS, THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER PROMPTLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR		3'-6"	• EPO \$ \$3	WALL MOUNTED ELECTRICAL CONTROL DEVICES, SWITCHES, MANUAL MOTOR STARTERS			
ROUND	CORRECTIONS TO THE ELECTRICAL INSTALLATION IF THE DRAWING REVIEW IS NOT COMPLETED BY THE CONTRACTOR.	OPERABLE PAR NOT LESS THA THAN	T OF PULL STATION 3'-6" NOR MOR 4'-0" AFF	DN RE E	WALL MOUNTED FIRE ALARM PULL STATION			
ARD RPROOF	13. THE CONTRACTOR SHALL SUBMIT TO THE OWNER: CERTIFICATES OF INSPECTION FOR THE ELECTRICAL INSTALLATION FROM AN APPROVED INSPECTION AGENCY UPON COMPLETION OF ELECTRICAL WORK.		3'-0"	÷	WALL MOUNTED RECEPTACLE IN MECHANICAL, ELECTRICAL, AND ELEVATOR ROOMS AND ON BUILDING EXTERIORS			
	14. THE ENTIRE ELECTRICAL SYSTEM SHALL BE TESTED FOR PROPER GROUNDING AND OPERATION. TEST SHALL VERIFY THAT THE SYSTEM HAS NO SHORT CIRCUITS, OPENS, OVERLOADS, OR PANEL IMBALANCES. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND TEST INSTRUMENTS. ALL FOULDMENT AND WEING SYSTEMS SHALL BE CROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF		1'-6"	▼-© ⊡ = ⊙	WALL MOUNTED RECEPTACLE, DATA OUTLET, TELEPHONE OUTLET OR SPECIAL RECEPTACLE			
MPERES	 15. PRIOR TO FINAL ACCEPTANCE OF THE ELECTRICAL WORK, THE ELECTRICAL CONTRACTOR SHALL SUBMIT TO THE OWNER A WRITTEN STATEMENT GUARANTEEING ALL EQUIPMENT, MATERIALS, AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE PROJECT. UPON WRITTEN NOTICE TO THE CONTRACTOR DURING THE WARRANTY PERIOD, THE CONTRACTOR NO EXPENSE TO THE OWNER, SHALL REPAIR OR REPLACE ALL DEFECTIVE MATERIALS OR WORKMANSHIP. 16 ALL WORK SHALL BE INSTALLED SO AS TO BE BEADLY ACCESSIBLE FOR OPERATION MAINTENANCE. AND 	2. MOUNTING HEIGHTS IN 3. RECEPTACI 4. THIS CHAR	HEIGHT INDICATED IDICATED ARE APF LES OUTLETS SHAL T, INCLUDING THE	D FOR THE CENTERLINE OF THE PLICABLE OVER GRADE, PLATFO LL BE 4" ABOVE COUNTERTOP, NOTES, IS APPLICABLE EVEN I	DEVICE OR OUTLET, OR TO THE CENTER OF THE OPERATING CONTROL D ORM AND OTHER OPERATING LEVELS 6" ABOVE TABLE OR DESKTOP, OR AS NOTED ON ELECTRICAL OR ARCHI IF THE MOUNTING HEIGHT IS SPECIFIED ON THE SYMBOL LIST.	EVICE, UNLES	is noted ot Youts and	HERWIS Detail
DEMOLITION NOTES	REPAIR. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO ACCOMPLISH THIS, SUBJECT TO THE APPROVAL OF THE ENGINEER.				HEET INDEX (PROJECT 83)	12)		
TATIONS SHALL NOT LIMIT THE EXTENT	17. ALL MATERIALS AND EQUIPMENT FURNISHED FOR THIS PROJECT SHALL BE NEW, LISTED, AND APPROVED BY UL. 18. THE CONTRACTOR SHALL ORTAIN ALL NECESSARY REPARTS INSPECTIONS LICENSES AND RAY LITUITY.		-			• <u>~</u>		Π
ONDITIONS AND SHALL PERFORM ALL VE THE FINAL DESIGN INTENT AS DCUMENTS. EXTENT OF ALL DEMOLITION	19. ALL FUSED AND NON-FUSED DISCONNECT SWITCHES SHALL HAVE: 600 VOLT RATING FOR 480 VOLT							
NTH THE OWNER & ENGINEER. IN SERVICE BUT INTERFERING WITH THE	CIRCUITS & 250 VOLT RATING FOR 208 VOLT CIRCUITS. SIZE FUSES TO COMPLY WITH NAMEPLATE RATING OF EQUIPMENT SERVED.						SUE FOR BI	
TED AND RECONNECTED USING THIS CONTRACT.	20. ELECTRICAL CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY ELECTRICAL LIGHT AND POWER AS REQUIRED FOR THE PROJECT WORK OF ALL TRADES DURING CONSTRUCTION.						ISSUED	
BE REMOVED SHALL BE DE-ENERGIZED	21. PROVIDE MODIFICATION OF THE FIRE ALARM SYSTEM TO ACCEPT NEW DEVICE. WIRE TO NEAREST INITIATOR DEVICE CIRCUIT. PROVIDE PROGRAMMING OF FIRE ALARM SYSTEM TO ACCEPT NEW DEVICE(S) AS NECESSARY.							
NCE WITH APPLICABLE LAWS AND EQUIPMENT REQUIRED TO BE TURNED	21.1. CONTRACTOR TO ENSURE THAT NEW DEVICE(S) SHALL BE FULLY COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM.					щ	024	
BRANCH CIRCUITS TO BE RE-USED -	21.2. PROVIDE FIRE ALARM CABLE IN CONDUIT AS NECESSARY IN ACCORDANCE WITH MANUFACTURER STANDARDS.	SHEET NO.	DRAWING NUMBER	DRAWING TITLE		SCAL	DATE 2/19/2(
LOCATIONS WHICH AVOID CONFLICTS ON BOXES, TAPE OFF CONDUCTORS AND T NUMBER.	21.3. FIRE ALARM SYSTEM SHALL UNDERGO A 100% RE-ACCEPTANCE TEST IN ACCORDANCE WITH NFPA 72.	1	E-001	ELECTRICAL LEAD	SHEET	NTS	x	
IDENTIFIED AFTER DEMOLITION. UPDATE CT EQUIPMENT AND CIRCUIT REMOVALS.	22. ELECTRICAL CONTRACTOR SHALL CONCEAL ALL NEW WIRING ASSOCIATED WITH NEW SWITCH LOCATIONS AND RECEPTACLES WITHIN EXISTING TILED MASONRY WALLS. CONTRACTOR SHALL INSTALL JUNCTION BOXES ABOVE DROP CEILINGS IN THE LOCATION OF THE NEW DEVICES AS NECESSARY TO ACCESS EVICTIVE MASONRY CEILINGS IN THE LOCATION OF THE NEW DEVICES AS NECESSARY TO ACCESS	2	ED-101	ELECTRICAL PARTIA	AL DEMOLITION PLANS - CAFÉ AND GYMNASIUM 1	/4''=1'-0''	x	
	EXISTING MASONRY CELLS. PROVIDE APPROPRIATE WALL SEALANT MATCHING RATING OF EXISTING WALLS WHERE PENETRATIONS ARE MADE ABOVE DROP CEILINGS.	3	ED-102	ELECTRICAL PARTIA	AL ROOF DEMOLITION PLANS - CAFÉ AND ROOMS	/8"=1'-0"	x	
		4	E-101	ELECTRICAL PARTIA	AL NEW WORK PLANS - CAFÉ AND GYMNASIUM	/4"=1'-0"	x	
		5	E-102	ELECTRICAL PARTIA GYMNASIUM TOILET	AL ROOF NEW WORK PLANS - CAFÉ AND ROOMS	/8"=1'-0"	x	
		6	E-201	ELECTRICAL NEW W TOILET ROOMS	VORK CEILING PLANS - CAFÉ AND GYMNASIUM	/4"=1'-0"	x	
		7	E-301	ELECTRICAL DETAIL	LS	NTS	x	

1 TYPICAL VOLTAGE DROP CALCULATIONS SCALE: NONE

for the actual branch circuit routing.

120V	14	50	80	125	215	
120V	12	55	100	150	225	
120V	10	65	125	175	250	
120V	5	125	200	-	-	
277V	14	110	200	-	-	
277V	12	125	225	-	-	
277V	10	150	250	-	-	
277V	5	300	-	-	-	

* The above wire lengths are provided for reference only. Electrica Contractor is responsible to confirm voltage drop is less than 3%

			Wire Size	(Copper)	
Voltage	Load	#12	#10	#8	#6
(V)	Amps		Run Dista	ance (Ft)*	
120V	14	50	80	125	215
120V	12	55	100	150	225
120V	10	65	125	175	250
120V	5	125	200	-	-
277V	14	110	200	-	-
277V	12	125	225	-	-
277V	10	150	250	-	-
277V	5	300	-	-	-

Maximum Wire Distances vs. Wire Size for 20A, 1 Phase Branch Cir

DEMOLITION OF EXISTING SYSTEM NOTES:

- <u>GENERAL NOTES</u>:
- 1. REFER TO ELECTRICAL LEAD SHEET, E-001, FOR "NOTES" THAT PERTAIN TO THE SCOPE OF THIS PROJECT. REFER TO SPECIFICATIONS AND DETAILS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS.
- 2. THE ELECTRICAL CONTRACTOR SHALL ACCOMPLISH COMPLETE ELECTRICAL DEMOLITION OF ALL ELECTRICAL EQUIPMENT/DEVICES ASSOCIATED WITH THE REMOVAL OF MECHANICAL EQUIPMENT IDENTIFIED ON PLAN.
- 3. DEMOLITION OF THESE DEVICES SHALL INCLUDE, BUT NOT BE LIMITED TO, COMPLETE REMOVAL OF ALL BRANCH CIRCUIT POWER WIRING AND ASSOCIATED CONDUIT AND BOX SYSTEMS FROM THE AFFECTED MECHANICAL EQUIPMENT BACK TO THE PANEL OF ORIGIN. REMOVE EXISTING DISCONNECT SWITCHES, STARTERS AND OTHER ELECTRICAL EQUIPMENT ASSOCIATED WITH THE MECHANICAL EQUIPMENT AND SYSTEMS BEING DEMOLISHED.
- 4. THE ELECTRICAL CONTRACTOR SHALL MAKE AN ON SITE INSPECTION OF THE PROJECT AREA TO DETERMINE A FULL SCOPE OF DEMOLITION WORK BEFORE SUBMITTING A PROPOSAL.
- 5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE APPROPRIATE FIRE RATED ABANDONMENT PLATES FOR ALL REMOVED FLOOR MOUNTED POKE THROUGH WIRING DEVICES.
- 6. ALL DEMOLISHED MATERIAL SHALL BE REMOVED FROM THE SITE BY THE ELECTRICAL CONTRACTOR. THE CONTRACTOR IS TO RECYCLE WHEREVER POSSIBLE. COORDINATE ALL REMOVAL AND DISPOSAL WITH THE OWNER WHO RESERVES THE RIGHT TO SALVAGE ANY HVAC OR ELECTRICAL COMPONENTS.
- 7. ALL POWER SHUT DOWNS MUST BE COORDINATED WITH THE OWNER'S REPRESENTATIVE. 8. ALL DEMOLITION WORK SHALL BE DONE IN A SAFE AND ORDERLY MANNER AND IN ACCORDANCE WITH THE N.E.C., OSHA AND STATE REGULATIONS.
- 9. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE REMOVAL OF EQUIPMENT WITH OTHER TRADES SO AS NOT TO AFFECT THE OPERATION OF EXISTING SYSTEMS.
- 10. DO NOT DEMOLISH THE FOLLOWING ITEMS: - BRANCH CIRCUIT WIRING PASSING THROUGH THE AREA OF DEMOLITION BUT FEEDING OTHER WIRING DEVICES, LIGHT FIXTURES, AND OTHER EQUIPMENT NOT WITHIN THE SCOPE OF THE WORK. - EXISTING BRANCH CIRCUIT WIRING FOR HVAC EQUIPMENT TO REMAIN-UNLESS STATED ON MECHANICAL DEMOLITION PLAN.
- 11. ELECTRICAL CONTRACTOR MAY RE-USE TO THE MAXIMUM EXTENT POSSIBLE ALL WIRING AND RACEWAY ASSOCIATED WITH EXISTING EQUIPMENT BEING REMOVED. RE-USE OF WIRING, RACEWAY AND BREAKERS LOCATED IN LOCAL PANELS IS PERMITTED AS LONG AS IT MEETS THE INSTALLATION REQUIREMENTS OF THE NEW EQUIPMENT BEING PROVIDED. PROVIDE MEGGER TESTING OF CABLES TO BE RE-USED PER ANSI/ NETA ATS-2021 STANDARDS.

DEMOLITION KEYED NOTES:

- <u>General</u>: Demolition notes are indicated with the following symbol $\langle \# \rangle$ and are numbered as follows:
- $\langle A \rangle$ existing hard ceiling and all existing light fixtures within space are to BE DEMOLISHED AND REMOVED. ELECTRICAL CONTRACTOR TO REMOVE EXISTING WIRING AND CONDUIT ASSOCIATED WITH DEMOLISHED ELECTRICAL FIXTURES BACK TO PANEL OF ORIGIN. EXISTING LIGHTING CONTROLS (SENSORS AND SWITCHES) ARE TO BE REMOVE DURING CONSTRUCTION AND REINTEGRATED FOR NEW LIGHT FIXTURES. ALL WIRING TO BE SUPPORTED BY J-HOOKS AND BRIDAL RINGS. REFER TO NEW WORK PLANS FOR NEW DROP CEILING INFORMATION.
- $\langle B \rangle$ existing fire alarm device to be removed and relocated. Electrical CONTRACTOR TO EXTEND WIRING AND CONDUIT AS NECESSARY TO FACILITATE RELOCATION. SEE NOTE 21 ON ELECTRICAL LEAD SHEET FOR FIRE ALARM DEVICE DEMOLITION AND RELOCATION NOTES.
- C ELECTRICAL CONTRACTOR SHALL TURN OVER DEVICE TO DISTRICT FOR STORAGE

DEMOLITION OF EXISTING SYSTEM NOTES:

<u>GENERAL NOTES</u>:

- 1. REFER TO ELECTRICAL LEAD SHEET, E-001, FOR "NOTES" THAT PERTAIN TO THE SCOPE OF THIS PROJECT. REFER TO SPECIFICATIONS AND DETAILS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS.
- 2. THE ELECTRICAL CONTRACTOR SHALL ACCOMPLISH COMPLETE ELECTRICAL DEMOLITION OF ALL ELECTRICAL EQUIPMENT/DEVICES ASSOCIATED WITH THE REMOVAL OF MECHANICAL EQUIPMENT IDENTIFIED ON PLAN.
- 3. DEMOLITION OF THESE DEVICES SHALL INCLUDE, BUT NOT BE LIMITED TO, COMPLETE REMOVAL OF ALL BRANCH CIRCUIT POWER WIRING AND ASSOCIATED CONDUIT AND BOX SYSTEMS FROM THE AFFECTED MECHANICAL EQUIPMENT BACK TO THE PANEL OF ORIGIN. REMOVE EXISTING DISCONNECT SWITCHES, STARTERS AND OTHER ELECTRICAL EQUIPMENT ASSOCIATED WITH THE MECHANICAL EQUIPMENT AND SYSTEMS BEING DEMOLISHED.
- 4. THE ELECTRICAL CONTRACTOR SHALL MAKE AN ON SITE INSPECTION OF THE PROJECT AREA TO DETERMINE A FULL SCOPE OF DEMOLITION WORK BEFORE SUBMITTING A PROPOSAL.
- 5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE APPROPRIATE FIRE RATED ABANDONMENT PLATES FOR ALL REMOVED FLOOR MOUNTED POKE THROUGH WIRING DEVICES.
- 6. ALL DEMOLISHED MATERIAL SHALL BE REMOVED FROM THE SITE BY THE ELECTRICAL CONTRACTOR. THE CONTRACTOR IS TO RECYCLE WHEREVER POSSIBLE. COORDINATE ALL REMOVAL AND DISPOSAL WITH THE OWNER WHO RESERVES THE RIGHT TO SALVAGE ANY HVAC OR ELECTRICAL COMPONENTS.
- 7. ALL POWER SHUT DOWNS MUST BE COORDINATED WITH THE OWNER'S REPRESENTATIVE. 8. ALL DEMOLITION WORK SHALL BE DONE IN A SAFE AND ORDERLY MANNER AND IN
- ACCORDANCE WITH THE N.E.C., OSHA AND STATE REGULATIONS. 9. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE REMOVAL OF EQUIPMENT WITH OTHER TRADES SO AS NOT TO AFFECT THE OPERATION OF EXISTING SYSTEMS.
- 10. DO NOT DEMOLISH THE FOLLOWING ITEMS: BRANCH CIRCUIT WIRING PASSING THROUGH THE AREA OF DEMOLITION BUT FEEDING OTHER WIRING DEVICES, LIGHT FIXTURES, AND OTHER EQUIPMENT NOT WITHIN THE SCOPE OF THE WORK. - EXISTING BRANCH CIRCUIT WIRING FOR HVAC EQUIPMENT TO REMAIN-UNLESS STATED ON MECHANICAL DEMOLITION PLAN.
- 11. ELECTRICAL CONTRACTOR MAY RE-USE TO THE MAXIMUM EXTENT POSSIBLE ALL WIRING AND RACEWAY ASSOCIATED WITH EXISTING EQUIPMENT BEING REMOVED. RE-USE OF WIRING, RACEWAY AND BREAKERS LOCATED IN LOCAL PANELS IS PERMITTED AS LONG AS IT MEETS THE INSTALLATION REQUIREMENTS OF THE NEW EQUIPMENT BEING PROVIDED. PROVIDE MEGGER TESTING OF CABLES TO BE RE-USED PER ANSI/ NETA ATS-2021 STANDARDS.

DEMOLITION KEYED NOTES:

<u>General</u>: Demolition notes are indicated with the following symbol $\langle \# \rangle$ and are numbered as follows:

A DEMOLISH AND REMOVE EXISTING EXHAUST FAN. DISCONNECT AND REMOVE WIRING AND CONDUIT BACK TO POINT OF ORIGIN.

NEW WORK SYSTEM NOTES:

APPROVAL.

- <u>GENERAL NOTES</u>:
 A. REFER TO ELECTRICAL LEAD SHEETS, E-001 FOR "NOTES" THAT PERTAIN TO THE
- SCOPE OF THIS PROJECT. B. REFER TO BOOK SPECIFICATIONS FOR PROJECT DETAILS AND EXECUTION
- REQUIREMENTS. C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF THE
- NATIONAL ELECTRICAL CODE.
- D. CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUITS, RACEWAYS, CONDUCTORS, AND OTHER EQUIPMENT NECESSARY TO PROVIDE A COMPLETE WORKING SYSTEM.
 E. ELECTRICAL CONTRACTOR SHALL INSTALL ALL (N) EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL
- MAINTAIN ALL CLEARANCES AS NOTED WITHIN THE WRITTEN INSTRUCTIONS.F. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL ELECTRICAL EQUIPMENT, WIRING AND RACEWAY, AND MAKE ALL CONNECTIONS TO/FROM PANELBOARDS,
- DISCONNECT SWITCHES, ADJUSTABLE SPEED DRIVES, MOTOR STARTERS, AND THE END USE EQUIPMENT NECESSARY FOR A FULLY OPERATIONAL SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR.
- G. ALL RACEWAYS PENETRATING FIRE RATED PARTITIONS, WALLS, AND CEILINGS SHALL BE SEALED USING APPROVED FIRE RATED SEALANT TO MATCH THE REQUIRED WALL FIRE RATING.
- H. ALL POWER SHUT DOWNS MUST BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.
- I. THE ELECTRICAL CONTRACTOR SHALL MAKE AN ON SITE INSPECTION TO DETERMINE THE FULL SCOPE OF WORK AND WORKING CONDITIONS BEFORE SUBMITTING A PROPOSAL.
- J. ALL CIRCUIT BREAKERS SERVING HVAC EQUIPMENT SHALL BE UL LISTED AS 'HACR'.K. THE DRAWINGS ARE DIAGRAMMATIC. EXACT LOCATION OF EQUIPMENT, WIRING AND RACEWAYS SHALL BE DETERMINED BY CONTRACTOR SUBJECT TO ARCHITECT
- L. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ELECTRICAL CHARACTERISTICS OF ALL NEW EQUIPMENT, MOTORS, ETC. BEFORE INSTALLING CABLING AND RACEWAY. IF THERE ARE ANY DISCREPANCIES BETWEEN THE ACTUAL RATING OF EQUIPMENT AT THE SITE AND THE DRAWINGS, THEN THE ENGINEER SHALL BE NOTIFIED.
- M. THE CONTRACTOR SHALL SUBMIT TO THE OWNER: CERTIFICATES OF INSPECTION FOR THE ELECTRICAL INSTALLATION FROM AN APPROVED INSPECTION AGENCY UPON COMPLETION OF ELECTRICAL WORK.
- N. ALL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATION MAINTENANCE, AND REPAIR. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO ACCOMPLISH THIS, SUBJECT TO THE APPROVAL OF THE ENGINEER.
- O. THE ELECTRICAL CONTRACTOR SHALL USE MAXIMUM OF 6' OF FLEXIBLE CONDUIT FOR FOR EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT, AND FOR ALL MOTORS. USE LIQUID TIGHT FLEXIBLE CONDUIT IN WET OR DAMP LOCATIONS. INSTALL SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.
- P. ALL WIRING SHALL BE COPPER CONDUCTOR WITH 600 VOLT TYPE THHN, OR THWN INSULATION IN CONDUIT. THE MINIMUM SIZE WIRE FOR POWER CIRCUITS SHALL BE #12 AWG. SOLID CONDUCTORS SHALL BE USED FOR NUMBER 10 AND 12; STRANDED CONDUCTORS SHALL BE USED FOR NUMBER 8 AND LARGER. THE CONTRACTOR MAY USE METAL CLAD TYPE 'MC' WHERE ALLOWED BY THE NATIONAL ELECTRICAL CODE AND APPROVED FOR USE BY THE AUTHORITIES HAVING JURISDICTION.
- Q. ALL MATERIALS AND EQUIPMENT FURNISHED FOR THIS PROJECT SHALL BE NEW, LISTED, AND APPROVED BY UL.
- R. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS, LICENSES AND PAY UTILITY COMPANY FEES.
- S. ALL FUSED AND NON-FUSED DISCONNECT SWITCHES SHALL HAVE: 600 VOLT RATING FOR 480 VOLT CIRCUITS. SIZE FUSES TO COMPLY WITH NAMEPLATE RATING OF EQUIPMENT SERVED.
- T. THE ELECTRICAL CONTRACTOR SHALL PROVIDE NEW TYPEWRITTEN PANEL SCHEDULES WITHIN THE SCOPE OF THIS PROJECT. THIS INCLUDES ALL PANELS EVEN IF ONLY A FEW CIRCUITS WERE CHANGED AS A RESULT OF THIS PROJECT. WHERE ACTUAL FIELD CONDITIONS REQUIRE DIFFERENT CIRCUIT NUMBERS THAN THOSE INDICATED ON PLANS THE CONTRACTOR SHALL ADVISE OWNER OF CHANGES ON REQUIRED AS-BUILT DRAWINGS.
- U. ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO VERIFY EXISTING DEMAND LOADS ON EXISTING ELECTRICAL EQUIPMENT THAT IS BEING MODIFIED AS PART OF THIS SCOPE OF WORK AND ADVISE ENGINEER OF RECORD/OWNER WHERE THE EXISTING AND NEW EQUIPMENT LOADS EXCEED THE RATING OF THE EXISTING ELECTRICAL EQUIPMENT.
- V. ELECTRICAL CONTRACTOR SHALL CONCEAL ALL NEW WIRING ASSOCIATED WITH NEW SWITCH LOCATIONS AND RECEPTACLES WITHIN EXISTING TILED MASONRY WALLS. CONTRACTOR SHALL INSTALL JUNCTION BOXES ABOVE DROP CEILINGS IN THE LOCATION OF THE NEW DEVICES AS NECESSARY TO ACCESS EXISTING MASONRY CELLS. PROVIDE APPROPRIATE WALL SEALANT MATCHING RATING OF EXISTING WALLS WHERE PENETRATIONS ARE MADE ABOVE DROP CEILINGS.

NEW WORK KEYED NOTES:

<u>General</u>: New work notes are indicated with the following symbol \bigcirc and are numbered as follows:

- 1 ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRING AND RACEWAY AS NECESSARY TO TIE FIRE ALARM DEVICE INTO EXISTING LOCAL POWER SUPPLY/BOOSTER PANEL CIRCUIT. EXISTING FIRE ALARM SYSTEM SHALL PASS A 100% RE-ACCEPTANCE TEST IN ACCORDANCE WITH NFPA 72 UPON COMPLETION OF INSTALLATION. REFER TO NOTE #21 ON E-001 FOR FIRE ALARM NOTES.
- 2 ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL (1) NEW 20A/1P CIRCUIT BREAKER IN PANEL P7B (CIRCUIT #29) TO POWER NEW GFI RECEPTACLES AS SHOWN ON PLANS. UTILIZE (2)#12 AND (1)#12G IN 3/4"C.
- 3 ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL (1) NEW 20A/1P CIRCUIT BREAKER IN PANEL L1C (CIRCUIT #19) TO POWER NEW GFI RECEPTACLES AS SHOWN ON PLANS. UTILIZE (2)#12 AND (1)#12G IN 3/4"C.

NEW WORK SYSTEM NOTES:

1. <u>GENERAL NOTES</u>:

APPROVAL.

- A. REFER TO ELECTRICAL LEAD SHEETS, E-001 FOR "NOTES" THAT PERTAIN TO THE SCOPE OF THIS PROJECT.
- B. REFER TO BOOK SPECIFICATIONS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS.
- C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE.
- D. CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUITS, RACEWAYS, CONDUCTORS, AND OTHER EQUIPMENT NECESSARY TO PROVIDE A COMPLETE WORKING SYSTEM.
- E. ELECTRICAL CONTRACTOR SHALL INSTALL ALL (N) EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES AS NOTED WITHIN THE WRITTEN INSTRUCTIONS.
- F. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL ELECTRICAL EQUIPMENT, WIRING AND RACEWAY, AND MAKE ALL CONNECTIONS TO/FROM PANELBOARDS, DISCONNECT SWITCHES, ADJUSTABLE SPEED DRIVES, MOTOR STARTERS, AND THE END USE EQUIPMENT NECESSARY FOR A FULLY OPERATIONAL SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR.
- G. ALL RACEWAYS PENETRATING FIRE RATED PARTITIONS, WALLS, AND CEILINGS SHALL BE SEALED USING APPROVED FIRE RATED SEALANT TO MATCH THE REQUIRED WALL FIRE RATING.
- H. ALL POWER SHUT DOWNS MUST BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.
- I. THE ELECTRICAL CONTRACTOR SHALL MAKE AN ON SITE INSPECTION TO DETERMINE THE FULL SCOPE OF WORK AND WORKING CONDITIONS BEFORE SUBMITTING A PROPOSAL.
- J. ALL CIRCUIT BREAKERS SERVING HVAC EQUIPMENT SHALL BE UL LISTED AS 'HACR'. K. THE DRAWINGS ARE DIAGRAMMATIC. EXACT LOCATION OF EQUIPMENT, WIRING AND RACEWAYS SHALL BE DETERMINED BY CONTRACTOR SUBJECT TO ARCHITECT
- L. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ELECTRICAL CHARACTERISTICS OF ALL NEW EQUIPMENT, MOTORS, ETC. BEFORE INSTALLING CABLING AND RACEWAY. IF THERE ARE ANY DISCREPANCIES BETWEEN THE ACTUAL RATING OF EQUIPMENT AT THE SITE AND THE DRAWINGS, THEN THE ENGINEER SHALL BE NOTIFIED.
- M. THE CONTRACTOR SHALL SUBMIT TO THE OWNER: CERTIFICATES OF INSPECTION FOR THE ELECTRICAL INSTALLATION FROM AN APPROVED INSPECTION AGENCY UPON COMPLETION OF ELECTRICAL WORK.
- N. ALL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATION MAINTENANCE, AND REPAIR. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO ACCOMPLISH THIS, SUBJECT TO THE APPROVAL OF THE ENGINEER.
- 0. THE ELECTRICAL CONTRACTOR SHALL USE MAXIMUM OF 6' OF FLEXIBLE CONDUIT FOR FOR EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT, AND FOR ALL MOTORS. USE LIQUID TIGHT FLEXIBLE CONDUIT IN WET OR DAMP LOCATIONS. INSTALL SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.
- P. ALL WIRING SHALL BE COPPER CONDUCTOR WITH 600 VOLT TYPE THHN, OR THWN INSULATION IN CONDUIT. THE MINIMUM SIZE WIRE FOR POWER CIRCUITS SHALL BE #12 AWG. SOLID CONDUCTORS SHALL BE USED FOR NUMBER 10 AND 12: STRANDED CONDUCTORS SHALL BE USED FOR NUMBER 8 AND LARGER. THE CONTRACTOR MAY USE METAL CLAD TYPE 'MC' WHERE ALLOWED BY THE NATIONAL ELECTRICAL CODE AND APPROVED FOR USE BY THE AUTHORITIES HAVING JURISDICTION.
- Q. ALL MATERIALS AND EQUIPMENT FURNISHED FOR THIS PROJECT SHALL BE NEW, LISTED, AND APPROVED BY UL.
- R. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS, LICENSES AND PAY UTILITY COMPANY FEES.
- S. ALL FUSED AND NON-FUSED DISCONNECT SWITCHES SHALL HAVE: 600 VOLT RATING FOR 480 VOLT CIRCUITS. SIZE FUSES TO COMPLY WITH NAMEPLATE RATING OF EQUIPMENT SERVED.
- T. THE ELECTRICAL CONTRACTOR SHALL PROVIDE NEW TYPEWRITTEN PANEL SCHEDULES WITHIN THE SCOPE OF THIS PROJECT. THIS INCLUDES ALL PANELS EVEN IF ONLY A FEW CIRCUITS WERE CHANGED AS A RESULT OF THIS PROJECT. WHERE ACTUAL FIELD CONDITIONS REQUIRE DIFFERENT CIRCUIT NUMBERS THAN THOSE INDICATED ON PLANS THE CONTRACTOR SHALL ADVISE OWNER OF CHANGES ON REQUIRED AS-BUILT DRAWINGS.
- U. ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO VERIFY EXISTING DEMAND LOADS ON EXISTING ELECTRICAL EQUIPMENT THAT IS BEING MODIFIED AS PART OF THIS SCOPE OF WORK AND ADVISE ENGINEER OF RECORD/OWNER WHERE THE EXISTING AND NEW EQUIPMENT LOADS EXCEED THE RATING OF THE EXISTING ELECTRICAL EQUIPMENT.
- V. ELECTRICAL CONTRACTOR SHALL CONCEAL ALL NEW WIRING ASSOCIATED WITH NEW SWITCH LOCATIONS AND RECEPTACLES WITHIN EXISTING TILED MASONRY WALLS. CONTRACTOR SHALL INSTALL JUNCTION BOXES ABOVE DROP CEILINGS IN THE LOCATION OF THE NEW DEVICES AS NECESSARY TO ACCESS EXISTING MASONRY CELLS. PROVIDE APPROPRIATE WALL SEALANT MATCHING RATING OF EXISTING WALLS WHERE PENETRATIONS ARE MADE ABOVE DROP CEILINGS.

NEW WORK KEYED NOTES:

(1) ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING AND RACEWAY FROM EXISTING EXHAUST FAN CIRCUIT TO POWER NEW EXHAUST FAN. UTILIZE (2)#12 AND (1)#12G IN 3/4"C. CIRCUIT BREAKER SHALL BE 20A/1P, MODIFY EXISTING CIRCUIT BREAKER AS NECESSARY.

NEW WORK SYSTEM NOTES:

REQUIREMENTS.

APPROVAL.

- <u>GENERAL NOTES</u>:
 A. REFER TO ELECTRICAL LEAD SHEETS, E-001 FOR "NOTES" THAT PERTAIN TO THE
- SCOPE OF THIS PROJECT. B. REFER TO BOOK SPECIFICATIONS FOR PROJECT DETAILS AND EXECUTION
- C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF THE
- NATIONAL ELECTRICAL CODE. D. CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUITS, RACEWAYS, CONDUCTORS,
- AND OTHER EQUIPMENT NECESSARY TO PROVIDE A COMPLETE WORKING SYSTEM.
 E. ELECTRICAL CONTRACTOR SHALL INSTALL ALL (N) EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES AS NOTED WITHIN THE WRITTEN INSTRUCTIONS.
- F. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL ELECTRICAL EQUIPMENT, WIRING AND RACEWAY, AND MAKE ALL CONNECTIONS TO/FROM PANELBOARDS, DISCONNECT SWITCHES, ADJUSTABLE SPEED DRIVES, MOTOR STARTERS, AND THE END USE EQUIPMENT NECESSARY FOR A FULLY OPERATIONAL SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR.
- G. ALL RACEWAYS PENETRATING FIRE RATED PARTITIONS, WALLS, AND CEILINGS SHALL BE SEALED USING APPROVED FIRE RATED SEALANT TO MATCH THE REQUIRED WALL FIRE RATING.
- H. ALL POWER SHUT DOWNS MUST BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.
- I. THE ELECTRICAL CONTRACTOR SHALL MAKE AN ON SITE INSPECTION TO DETERMINE THE FULL SCOPE OF WORK AND WORKING CONDITIONS BEFORE SUBMITTING A PROPOSAL.
- J. ALL CIRCUIT BREAKERS SERVING HVAC EQUIPMENT SHALL BE UL LISTED AS 'HACR'.K. THE DRAWINGS ARE DIAGRAMMATIC. EXACT LOCATION OF EQUIPMENT, WIRING AND RACEWAYS SHALL BE DETERMINED BY CONTRACTOR SUBJECT TO ARCHITECT
- L. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ELECTRICAL CHARACTERISTICS OF ALL NEW EQUIPMENT, MOTORS, ETC. BEFORE INSTALLING CABLING AND RACEWAY. IF THERE ARE ANY DISCREPANCIES BETWEEN THE ACTUAL RATING OF EQUIPMENT AT THE SITE AND THE DRAWINGS, THEN THE ENGINEER SHALL BE NOTIFIED.
- M. THE CONTRACTOR SHALL SUBMIT TO THE OWNER: CERTIFICATES OF INSPECTION FOR THE ELECTRICAL INSTALLATION FROM AN APPROVED INSPECTION AGENCY UPON COMPLETION OF ELECTRICAL WORK.
- N. ALL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATION MAINTENANCE, AND REPAIR. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO ACCOMPLISH THIS, SUBJECT TO THE APPROVAL OF THE ENGINEER.
- O. THE ELECTRICAL CONTRACTOR SHALL USE MAXIMUM OF 6' OF FLEXIBLE CONDUIT FOR FOR EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT, AND FOR ALL MOTORS. USE LIQUID TIGHT FLEXIBLE CONDUIT IN WET OR DAMP LOCATIONS. INSTALL SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.
- P. ALL WIRING SHALL BE COPPER CONDUCTOR WITH 600 VOLT TYPE THHN, OR THWN INSULATION IN CONDUIT. THE MINIMUM SIZE WIRE FOR POWER CIRCUITS SHALL BE #12 AWG. SOLID CONDUCTORS SHALL BE USED FOR NUMBER 10 AND 12; STRANDED CONDUCTORS SHALL BE USED FOR NUMBER 8 AND LARGER. THE CONTRACTOR MAY USE METAL CLAD TYPE 'MC' WHERE ALLOWED BY THE NATIONAL ELECTRICAL CODE AND APPROVED FOR USE BY THE AUTHORITIES HAVING JURISDICTION.
- Q. ALL MATERIALS AND EQUIPMENT FURNISHED FOR THIS PROJECT SHALL BE NEW, LISTED, AND APPROVED BY UL.
- R. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS, LICENSES AND PAY UTILITY COMPANY FEES.
- S. ALL FUSED AND NON-FUSED DISCONNECT SWITCHES SHALL HAVE: 600 VOLT RATING FOR 480 VOLT CIRCUITS. SIZE FUSES TO COMPLY WITH NAMEPLATE RATING OF EQUIPMENT SERVED.
- T. THE ELECTRICAL CONTRACTOR SHALL PROVIDE NEW TYPEWRITTEN PANEL SCHEDULES WITHIN THE SCOPE OF THIS PROJECT. THIS INCLUDES ALL PANELS EVEN IF ONLY A FEW CIRCUITS WERE CHANGED AS A RESULT OF THIS PROJECT. WHERE ACTUAL FIELD CONDITIONS REQUIRE DIFFERENT CIRCUIT NUMBERS THAN THOSE INDICATED ON PLANS THE CONTRACTOR SHALL ADVISE OWNER OF CHANGES ON REQUIRED AS-BUILT DRAWINGS.
- U. ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO VERIFY EXISTING DEMAND LOADS ON EXISTING ELECTRICAL EQUIPMENT THAT IS BEING MODIFIED AS PART OF THIS SCOPE OF WORK AND ADVISE ENGINEER OF RECORD/OWNER WHERE THE EXISTING AND NEW EQUIPMENT LOADS EXCEED THE RATING OF THE EXISTING ELECTRICAL EQUIPMENT.
- V. ELECTRICAL CONTRACTOR SHALL CONCEAL ALL NEW WIRING ASSOCIATED WITH NEW SWITCH LOCATIONS AND RECEPTACLES WITHIN EXISTING TILED MASONRY WALLS. CONTRACTOR SHALL INSTALL JUNCTION BOXES ABOVE DROP CEILINGS IN THE LOCATION OF THE NEW DEVICES AS NECESSARY TO ACCESS EXISTING MASONRY CELLS. PROVIDE APPROPRIATE WALL SEALANT MATCHING RATING OF EXISTING WALLS WHERE PENETRATIONS ARE MADE ABOVE DROP CEILINGS.

NEW WORK KEYED NOTES:

<u>General</u>: New work notes are indicated with the following symbol igodot and are numbered as follows:

- 1 ELECTRICAL CONTRACTOR SHALL UTILIZE EXISTING LOCAL LIGHTING CIRCUIT TO POWER NEW LIGHT FIXTURES. PROVIDE ADDITIONAL WIRING AND CONDUIT AS NECESSARY.
- 2 ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL UL924 LISTED DEVICE FOR EMERGENCY FIXTURES TO ALLOW EMERGENCY FIXTURES TO TURN ON TO FULL BRIGHTNESS IN THE EVENT OF A POWER FAILURE.
- 3 ELECTRICAL CONTRACTOR SHALL RELOCATE EXISTING FIRE ALARM DEVICE IN NEW TOILET ROOM. PROVIDE ALL WIRING AND RACEWAY AS NECESSARY TO TIE INTO EXISTING LOCAL POWER SUPPLY/BOOSTER PANEL CIRCUIT. EXISTING FIRE ALARM SYSTEM SHALL PASS A 100% RE-ACCEPTANCE TEST IN ACCORDANCE WITH NFPA 72 UPON COMPLETION OF INSTALLATION.
- (4) ELECTRICAL CONTRACTOR SHALL EXTEND EXISTING SPEAKER WIRE IN KIND FROM EXISTING DEMO LOCATION TO NEW LOCATION AS INDICATED ON NEW WORK PLAN. PROVIDE NEW CEILING MOUNTED SPEAKER (TO MATCH EXISTING DISTRICT TYPE). PROVIDE FINAL INSTALLATION AND SPEAKER WIRE TAPS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.

- GENERAL FIRE STOP NOTES
- 1. REFER TO SECTION 260500 OF THE SPECIFICATIONS. FOR QUALITY CONTROL REQUIREMENTS, REFER TO THE QUALITY CONTROL PORTION OF THE SPECIFICATION.
- 2. DETAILS SHOWN ON THIS DRAWING ARE TYPICAL DETAILS. IF FIELD CONDITIONS DO NOT MATCH REQUIREMENTS OF TYPICAL DETAILS, APPROVED ALTERNATE DETAILS SHALL BE UTILIZED. FIELD CONDITIONS AND DIMENSIONS NEED TO BE VERIFIED FOR COMPLIANCE WITH THE DETAILS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - * MINIMUM AND MAXIMUM WIDTH OF JOINTS * TYPE AND THICKNESS OF FIRE-RATED CONSTRUCTION.
 - THE MINIMUM ASSEMBLY RATING OF THE FIRESTOP ASSEMBLY SHALL MEET OR EXCEED THE HIGHEST
 - RATING OF THE ADJACENT CONSTRUCTION.
- 3. IF ALTERNATE DETAILS MATCHING THE FIELD CONDITIONS ARE NOT AVAILABLE, MANUFACTURER'S ENGINEERING JUDGMENT DRAWINGS ARE ACCEPTABLE. DRAWINGS SHALL FOLLOW THE INTERNATIONAL FIRESTOP COUNCIL (IFC) GUIDELINES FOR EVALUATING FIRESTOP SYSTEMS ENGINEERING JUDGMENTS.
- **REFERENCES:** * 2002 UNDERWRITER'S LABORATORIES FIRE RESISTANCE
- DIRECTORY, VOLUMES 1 & 2 * NFPA 101 LIFE SAFETY CODE
- * NFPA 70 NATIONAL ELECTRIC CODE 2020 * ALL GOVERNING LOCAL AND REGIONAL BUILDING CODES
- 4. FIRESTOP SYSTEM INSTALLATION MUST MEET REQUIREMENTS OF ASTM E-814 (UL 1479) TESTED ASSEMBLIES THAT PROVIDE A FIRE RATING EQUAL TO THAT OF CONSTRUCTION BEING PENETRATED.
- 5. ALL RATED THROUGH-PENETRATION ASSEMBLIES SHALL BE PROMINENTLY LABELED WITH THE FOLLOWING INFORMATION: * ATTENTION: FIRE RATED ASSEMBLY * UL SYSTEM #
 - * PRODUCT(S) USED
 - * HOURLY RATING (F-RATING) * INSTALLATION DATE

ALL WORK SHOWN IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE.

