CLIENT	SHEET	INDEX		
The City of Moraine CITY OF MORAINE 4200 DRYDEN ROAD MORAINE, OHIO 45439	G1.1 G1.2 G1.3 G1.4	PROJECT TITLE SHEET CODE REVIEW PLANS GENERAL ACCESSIBILITY S SCHEDULES	TANDARDS / V	WALL TYPES
	G1.5	SIGNAGE PLANS		
DESIGN TEAM	D1.1	EXISTING / DEMOLITION FIR	N RST FLOOR PL	AN 'AREA A'
ARCHITECT:	D1.2 D1.3 D1.4 D2.1	EXISTING / DEMOLITION FIF EXISTING / DEMOLITION FIF EXISTING / DEMOLITION BA EXISTING / DEMOLITION FIF	RST FLOOR PL RST FLOOR PL SEMENT FLOO RST FLOOR RE	AN 'AREA B' AN 'AREA C' DR PLAN 'AREA D' FLECTED CEILING PLAN
	D2.2	'AREA A' EXISTING / DEMOLITION FIF	RST FLOOR RE	FLECTED CEILING PLAN
RDA GROUP ARCHITECTS	D2.3	EXISTING / DEMOLITION FIF	RST FLOOR RE	FLECTED CEILING PLAN
7662 PARAGON ROAD   DAYTON, OH 45459   937.610.3440	D2.4	EXISTING / DEMOLITION BA 'AREA D'	SEMENT REFL	ECTED CEILING PLAN
	S0.1 S1.0	STRUCTURAL NOTES & SPE	ECIAL INSPECT	TIONS
STRUCTURAL ENGINEER:	S2.0 S2.1	INTERMEDIATE FRAMING P SECTIONS	LAN & DETAIL	
SHELLMEYER 2202 SOUTH PATTERSON BLVD	S3.0	ROOF FRAMING PLAN		
DAYTON, OHIO 45429	A1.1 A1.2 A1.3	PROPOSED FIRST FLOOR F PROPOSED FIRST FLOOR F PROPOSED FIRST FLOOR F	'LAN 'AREA A' 'LAN 'AREA B' 'LAN 'AREA C'	
	A1.4 A1.5	PROPOSED BASEMENT FLO DIMENSIONED FIRST FLOO	OR PLAN 'ARE R PLAN 'AREA	EA D' A'
	A1.6 A1.7	DIMENSIONED FIRST FLOO DIMENSIONED FIRST FLOO	R PLAN 'AREA R PLAN 'AREA	B' C'
HELMIG LIENESCH LLC	A1.8 A1.9	DIMENSIONED BASEMENT I FIRST FLOOR REFLECTED	FLOOR PLAN 'A	AREA D' 'AREA A'
410 S JEFEERSON ST	A1.10 A1.11 A1.12	FIRST FLOOR REFLECTED	CEILING PLAN CEILING PLAN ILING PLAN 'AI	'AREA D' REA D'
DAYTON, OHIO 45402	A1.13 A1.14	PROPOSED FINISH PLAN 'A PROPOSED FINISH PLAN 'A	REA A' REA B'	
	A1.15 A1.16	PROPOSED FINISH PLAN 'A PROPOSED BASEMENT FIN	REA C' ISH PLAN 'ARE	EA D'
ENVIRONMENTAL CONSULTANT: MAC PARAN CONSULTING SERVICES, INC.	A1.17 A2.1	EXTERIOR ELEVATIONS		
3959 FULTON GROVE ROAD	A3.1	INTERIOR ELEVATIONS		
CINCINNATI, OH 45245	A3.2 A3.3 A3.4	INTERIOR ELEVATIONS INTERIOR ELEVATIONS MILLWORK SECTIONS		
	A4.1 A4.2 A4.3	SECTIONS SECTIONS SECTIONS		
	A4.4	SECTIONS		
	ABBDE			
<ol> <li>RDA CONTRACT ADMINISTRATION</li> <li>RDA IS PROVIDING CONTRACT ADMINISTRATION SERVICES FOR THIS PROJECT. CONTRACTOR AND CLIENT / OWNER ARE RESPONSIBLE TO COORDINATE THE</li> </ol>	°	DEGREES	DP	DEEP
PROPOSED WORK, SCHEDULES, INSTALLATIONS, PERMITS, INSPECTIONS, ETC. 2. CONTACT ARCHITECT FOR CLARIFICATION SHOULD THERE BE QUESTIONS	± ≠ Ø	PLUS OR MINUS NOT EQUAL DIAMETER	DS DTL DW	DOWNSPOUT DETAIL DISHWASHER
REGARDING THE INTERPRETATION OR INTENT OF THE DOCUMENTS, FIELD DISCOVERY, ETC. THAT WOULD IMPACT OR AFFECT THE WORK AS PROPOSED.	۲ د	ANGLE CENTERLINE	DWG	
CHANGES DURING CONSTRUCTIONS, FIELD CHANGES, AND CLIENT / OWNER CHANGES DURING CONSTRUCTION.	۶ ABV	ABOVE	EA EERO RESCUE	EACH EMERGENCY ESCAPE & OPENING
HOW THEY INTERFACE TO ENSURE THE SYSTEMS CAN BE INSTALLED PER THE INTENT OF THE DOCUMENTS AND TO MEET APPLICABLE BUILDING AND ZONING	ADA	ACCESSIBLE / HANDICAP ACCESSIBLY / ACCESSIBLI ITY	EIFS FINISH F I	EXTERIOR INSULATION SYSTEM EXPANSION JOINT
<ul> <li>CODES, LOCAL REQUIREMENTS, CLIENT / OWNER REQUIREMENTS, ETC.</li> <li>4. MEET ALL APPLICABLE BUILDING AND ZONING CODES REQUIREMENTS</li> </ul>	AFF	ACCESSIBILITY - ANSI ICC-117.1-2009 ABOVE FINISH FLOOR	ELEC ELEV	ELECTRIC / ELECTRICAL ELEVATION / ELEVATOR
WHETHER SPECIFICALLY NOTED HEREIN OR NOT. BUILDING CODES REPRESENT THE MINIMUM ACCEPTABLE STANDARD.	ALT ALUM APPROX	ALTERNATE ALUMINUM APPOXIMATE	EP EQ EQUIP	EPOXY EQUAL EQUIPMENT
5. INSTALL ALL PRODUCTS, MATERIALS, INSTALLATIONS, AND THE LIKE IN ACCORDANCE WITH APPLICABLE INDUSTRY STANDARDS, APPLICABLE MANUFACTURER'S DETAILS AND INSTRUCTIONS, IN ACCORDANCE WITH BEST	ATC	ACOUSTIC TILE CEILING	EX EXP	EXISTING EXPANSION
PRACTICES, AND BUILDING CODE PROVISIONS.	BET/BETW BLKG BLW	N. BETWEEN BLOCKING BELOW	FD FDN	FLOOR DRAIN
THE PLANS AND SPECIFICATIONS ARE INTENDED TO DEPICT THE GENERAL SCOPE, LAYOUT AND QUALITY OF WORKMANSHIP REQUIRED. THE DOCUMENTS	BRG BSMT	BEARING BASEMENT	FE FEC	FIRE EXTINGUISHER FIRE EXTINGUISHER
INTENDED TO SHOW OR DESCRIBE IN DETAIL EVERY ITEM NECESSARY FOR THE PROPER INSTALLATION OF THE WORK. THE MEANS AND METHODS REQUIRED TO	CIP	CAST IN PLACE	FF FN	FINISH FLOOR FINISH / FINISHED
EXECUTE THE WORK DESCRIBED IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THE ANCILLARY WORK REQUIRED. WHETHER EXPLICITLY STATED OR NOT, FOR THE PROPER	CJ CL	CONTROL JOINT CENTERLINE	FRT TREATED	
COMPLETION OF THE WORK AS INTENDED. THE CONTRACTOR IS REQUIRED TO MEET OR EXCEED BUILDING CODE REQUIREMENTS, APPLICABLE INDUSTRY	CLR CMU	CLEAR CONCRETE MASONRY	EQUIPMEN FTG	T FOOTING
STANDARDS, ASTM STANDARDS, AND/OR MANUFACTURER INSTALLATION REQUIREMENTS AS THEY RELATE TO THE WORK.			FV	
PACKAGE INDICATING THE INTENDED SCOPE OF THE PROJECT IN ITS ENTIRETY. AS SUCH, THE PROJECT IS STRUCTURED TO BE AWARDED TO A SINGLE PRIME	CONT CPT	CONTINUOUS CARPET	GALV GC	GALVANIZED GENERAL CONTRACTOR
CONTRACTOR. THE DOCUMENTS DO NOT DELINEATE BID PACKAGES OR ASSIGN RESPONSIBILITIES TO ANY SUBSEQUENT SUBCONTRACTORS, DICTATE			GYP GYP BD	GYPSUM GYPSUM BOARD
'TRADES'. SUCH ACTIVITIES ARE THE RESPONSIBILITY OF THE HOLDER OF THE CONSTRUCTION CONTRACT. IN THE EVENT OF A DISCREPANCY WITHIN THE	DF DIA	DRINKING FOUNTAIN DIAMETER	HB HM	HOSE BIBB HOLLOW METAL
DRAWINGS OR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT REPRESENTED IN THE DOCUMENTS SHALL PREVAIL.	DIM DIV	DIVISION	HOR HT	HEIGHT
地		)		
				AREA B —
I S NI	/			
				/



SCALE: NTS

### Alterations / Modernization At:

# City of Moraine Municipal Building

4200 Dryden Road Moraine, OH 45439

FACADE AND INTERIOR IMPROVEMENTS TO THE

SYSTEMS / FINISHES. NO CHANGE OF USE OR

FP1.1	SPRINKLER - LEGEND, NOTES AND DEMOLITION PARTIAL BASEMENT ELOOR PLAN AREA D
FP1.2	SPRINKLER - DEMOLITION PARTIAL FIRST FLOOR PLANS AREA A, AREA B AND AREA C
FP2.1	SPRINKLER - REVISED PARTIAL BASEMENT FLOOR PLAN AREA D
FP2.2	AND CATWALK ANEA D SPRINKLER - REVISED PARTIAL FIRST FLOOR PLANS AREA A, AREA B AND AREA C
P0.1	PLUMBING - LEGEND, GENERAL NOTES, EQUIPMENT DATA AND
P1.1	PLUMBING - DEMOLITION PARTIAL FLOOR PLANS AREA C AND AREA D
P2.1 P2.2	PLUMBING - REVISED BASEMENT PLAN AREA D PLUMBING - REVISED PARTIAL FIRST FLOOR PLANS AREA A AND AREA C
P2.3	PLUMBING - REVISED ROOF PLAN - AREA A, AREA B AND PARTIAL AREA C
H0.1	HVAC - LEGEND, GENERAL NOTES, SCHEDULES AND EQUIPMENT DATA
H0.2	HVAC - SCHEDULES
H0.3	HVAC - POINTS LISTS AND TEMPERATURE CONTROL SCHEMATICS
H0.4	HVAC - POINTS LISTS, TEMPERATURE CONTROL SCHEMATICS AND EQUIPMENT DATA
H0.5	HVAC - PROPOSED TEMPERATURE CONTROL SEQUENCE OF OPERATION
H1.1	HVAC - DEMOLITION PARTIAL FLOOR PLANS - AREA B, AREA C AND AREA D
H1.2	HVAC - DEMOLITION PARTIAL FLOOR PLAN - AREA A
H2.1	HVAC - REVISED PARTIAL FLOOR PLANS - AREA B, AREA C AND AREA D
H2.2	HVAC - REVISED PARTIAL FLOOR PLAN - AREA A
H2.3	HVAC - REVISED ROOF PLAN - AREA A, AREA B, AND PARTIAL AREA C
H3.1 H3.2	HVAC - DEMOLITION AND REVISED PIPING SITE PLANS HVAC - REVISED PIPING FLOOR PLANS - AREA B, AREA C AND ARFA D
H4 1	HVAC - DETAILS AND FOUIPMENT DATA
H4.2	HVAC - DETAILS
E0.1	ELECTRICAL LEGEND, DETAILS
EU.Z	
∟1.1 ⊏1.0	
∟1.∠ ⊑2.1	REVISED ELECTRICAL 'AREA A'
∟∠.ı E2.2	REVISED ELECTRICAL JAREA R'
E23	REVISED ELECTRICAL JAREA C'EIRST ELOOR
E2.0 E2.4	REVISED ELECTRICAL 'AREA D' BASEMENT
E2.5	REVISED ELECTRICAL 'AREA A-B-C ROOF PI AN'
E2.6	REVISED ELECTRICAL PARTIAL SITE PLAN

ELECTRICAL NORMAL PANEL SCHEDULES ELECTRICAL EM PANEL SCHEDULES LIGHTING FIXTURE SCHEDULE

REINF

REQ'D

REV

R/W

SALV

SF

SIM

SM

SQ

SS

STD

STL

TBD

T&B

T&G

Т.О.

TRZO

UFAS

OTHERWISE

LABORATORY

TYP

UNO

VB

VERT

W/

W/O

W.P.

WRB BARRIER WWF

WD

TR

SPEC

RO

REQ'MT

REINFORCE

REQUIREMENT[S]

ROUGH OPENING

RIGHT OF WAY

SAI VAGED

SIMILAR

SQUARE

STEEL

TOP OF

TREATED

TYPICAL

ACCESSIBILITY STANDARD

TERRAZZO

UNIFORM FEDERAL

UNLESS NOTED

UNDERWRITER'S

VAPOR BARRIER

VERTICAL

WITHOUT

WORK POINT

WEATHER RESISTIVE

WELDED WIRE FABRIC

WITH

WOOD

STANDARD

TEMPERED

SQUARE FEET

SHEET METAL

SPECIFICATION

STAINLESS STEEL

TO BE DETERMINED

TONGUE AND GROOVE

TOP AND BOTTOM

REQUIRED

REVISION

EXISTING ONE-LINE DIAGRAM

HVAC AIR	HEATING, VENTILATION CONDITIONING
INT	INTERIOR
JB	JUNCTION BOX
LL LLH LLV LTL	LIVE LOAD LONG LEG HORIZONTAI LONG LEG VERTICAL LINTEL
MAX MECH MFR MIN MISC MO MS MTD MTL	MAXIMUM MECHANICAL MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING METAL STUD MOUNTED METAL
NIC NOM NTS	NOT IN CONTRACT NOMINAL NOT TO SCALE
OC OH OPG OPP	ON CENTER OVERHEAD OPENING OPPOSITE
	PRE-ENGINEERED MET
PL PTD	PLATE / PROPERTY LIN PAINTED
QT QTY	QUARRY TILE QUANTITY
R / RAD RA RB RD	RADIUS RETURN AIR RUBBER BASE ROOF DRAIN

REFRIGERATOR

E3.1

E3.2

E3.3

REF



**BUILDING KEY PLAN** 



ARCHITECTURAL SITE KEY PLAN





# SCALE: 1" = 60'-0"

### EXISTING MUNICIPAL BUILDING FOR THE CITY OF MORAINE. INTERIOR IMPROVEMENTS INCLUDE ALTERATIONS AND MODERNIZATION OF EXISTING CRITERIA ON SHEET S0.1. 504: FIRE ESCAPES - NOT APPLICABLE OCCUPANCY IS REQUESTED AS PART OF THESE 506: CHANGE OF OCCUPANCY - NOT APPLICABLE 507: HISTORIC BUILDINGS - NOT APPLICABLE. ALTERED OR REPAIRED, ADEQUATE SUBSTITUTE PROVISIONS SHALL BE MADE. OEBC CHAPTER 3: PROVISIONS FOR ALL COMPLIANCE METHODS

IFC 906.

NO CHANGE

ABLE 601:

301.3.1: PRESCRIPTIVE COMPLIANCE METHOD -COMPLY W/ OECC SECTION 302 - 309 AND CHAPTER 5. 302.4: NEW AND REPLACEMENT MATERIALS - MATERIALS PERMITTED BY THE APPLICABLE CODE FOR NEW CONSTRUCTION SHALL BE USED. LIKE MATERIALS SHALL BE PERMITTED FOR REPAIRS AND ALTERATIONS PROVIDED THAT UNSAFE CONDITIONS ARE NOT CREATED. 302.5: OCCUPANCY AND USE - DETERMINED PER OBC CHAPTER 3 [SEE

303: STORM SHELTERS - NOT APPLICABLE 304: STRUCTURAL DESIGN LOADS AND EVALUATION

IMPROVEMENTS.

**ZONING PERMIT - CITY OF MORAINE** 

**BUILDING PERMIT - CITY OF MORAINE** 

BUILDING CODE: 2024 OEBC [OHIO EXISTING BUILDING CODE]

2024 OBC [OHIO BUILDING CODE]

AUTHORITY HAVING JURISDICTION:

ZONING CODE: CITY OF MORAINE

NOTES1

CODE REVIEW

DESCRIPTION:

- REFER TO DESIGN CRITERIA ON SHEET S0.1. 305: IN-SITU LOAD TESTS - NOT APPLICABLE
- 306.2: ACCESSIBILITY DESIGN PER ICC A117.1-2009 306.3: A FACILITY THAT IS ALTERED TO BE ACCESSIBLE SHALL BE MAINTAINED ACCESSIBLE DURING OCCUPANCY. REQUIRED
- ACCESSIBLE MEANS OF EGRESS SHALL BE MAINTAINED. 306.4: AN ALTERATION OF AN EXISTING FACILITY SHALL NOT IMPOSE A REQUIREMENT FOR GREATER ACCESSIBILITY THAN THAT WHICH WOULD BE REQUIRED FOR NEW CONSTRUCTION.
- 306.7: ALTERATIONS A FACILITY THAT IS ALTERED SHALL COMPLY WITH THE APPLICABLE PROVISIONS IN CH. 11 OF THE OBC UNLESS TECHNICALLY INFEASIBLE. 306.7.1: ALTERATIONS AFFECTING AN AREA OF PRIMARY FUNCTION -
- ROUTE TO THE PRIMARY FUNCTION AREA SHALL BE ACCESSIBLE, AS WELL AS ACCESSIBLE ROUTE TO TOILET FACILITIES AND DRINKING FOUNTAINS. 306.7.1.1: DISPROPORTIONATE COSTS / ACCESSIBLE FEATURES;
- -ACCESSIBLE ENTRANCE [PROVIDED] -ACCESSIBLE ROUTE TO THE ALTERED AREA [PROVIDED] -AT LEAST [1] ACCESSIBLE RESTROOM FOR EACH SEX, OR A SINGLE UNISEX RESTROOM [PROVIDED] -ACCESSIBLE TELEPHONES INOT APPLICABLE -ACCESSIBLE DRINKING FOUNTAINS [PROVIDED]
- -ACCESSIBLE PARKING [PROVIDED] 306.7.6: EXTERIOR ACCESSIBLE ROUTES SHALL NOT BE LESS THAN 36" MIN. IN WIDTH. 306.7.11: TOILET ROOMS - WHERE IT IS TECHNICALLY INFEASIBLE TO
- ALTER EXISTING TOILET ROOMS TO BE ACCESSIBLE, ONE ACCESSIBLE SINGLE USER TOILET ROOM IS PERMITTED. IT SHALL BE LOCATED ON THE SAME FLOOR AS THE EXISTING TOILET ROOMS. 307: SMOKE ALARMS - NOT APPLICABLE 308: CARBON MONOXIDE DETECTION - NOT APPLICABLE
- 309.2: EXTERIOR WALL COVERINGS AND EXTERIOR WALL ENVELOPES -WHERE AN EXTERIOR WALL COVERING OR EXTERIOR WALL ENVELOPE IS ADDED OR REPLACES THE MATERIAL AND METHODS USED SHALL COMPLY WITH THE REQUIREMENTS FOR NEW CONSTRUCTION IN CH.14 AND 26 OBC IF THE AREA COMPRISES MORE THAN 15% OF THE TOTAL WALL AREA ON ANY SIDE OF THE BUILDING. [AREA OF ALTERATION = ± 50% OF NORTH FACADE]
- OEBC CHAPTER 5: PRESCRIPTIVE COMPLIANCE METHOD 02: ADDITIONS - NOT APPLICABLE

503.2: FLOOD HAZARD AREAS - NOT APPLICABLE

- 503.1: ALTERATIONS EXCEPT AS PROVIDED BY OEBC CHAPTER 3 OR THIS SECTION, ALTERATIONS TO ANY BUILDING, STRUCTURE, OR SYSTEM ARE TO COMPLY WITH THE REQUIREMENTS OF 2024 OBC ONLY TO THE EXTENT OF THE PROPOSED ALTERATION. PORTIONS OF THE STRUCTURE OR SYSTEM NOT ALTERED AND NOT AFFECTED BY THE ALTERATION ARE NOT REQUIRED TO COMPLY WITH THE CODE REQUIREMENTS FOR A NEW STRUCTURE. ALTERATIONS ARE TO BE SUCH THAT THE EXISTING BUILDING, STRUCTURE, OR SYSTEM IS NO LESS COMPLYING WITH THE PROVISIONS OF THIS CODE THAN THE EXISTING BUILDING OR STRUCTURE WAS PRIOR TO THE ALTERATION. EXCEPTION 1: EXISTING STAIRWAY IS NOT REQUIRED TO COMPLY
- W/ OBC CHAPTER 10. EXCEPTION 3: EXISTING HANDRAILES ARE NOT REQUIRED TO COPMLY WITH THE REQUIREMENTS OF OBC SECTION 1014.6 REGARDING FULL EXTENSION OF THE HANDRAILS WHERE SUCH EXTENSIONS WOULD BE HAZARDOUS DUE TO PLAN CONFIGURATION.
- AND LOCAL FIRE DEPARTMENT

USE

CORRIDORS:

PROPOSED CANOPY\* ADDITION

503.3: STRUCTURAL ELEMENTS - GRAVITY LOADS - REFER TO DESIGN CRITERIA ON SHEET S0.1. 503.4: STRUCTURAL ELEMENTS - LATERAL LOADS - REFER TO DESIGN 505: WINDOWS / EMERGENCY ESCAPE OPENINGS - NOT APPLICABLE

DEBC CHAPTER 15: CONSTRUCTION SAFEGUARDS 1.3: ALTERATIONS - REQUIRED EXITS, EXISTING STRUCTURAL ELEMENTS, FIRE PROTECTION DEVICES AND SANITARY SAFEGUARDS SHALL BE MAINTAINED AT ALL TIMES DURING ALTERATIONS TO ANY BUILDING OR STRUCTURE. EXCEPTION 1: WHERE SUCH REQUIRED ELEMENTS ARE BEING

EXCEPTION 2: MAINTENANCE OF SUCH ELEMENTS AND DEVICES IS NOT REQUIRED WHERE THE EXISTING BUILDING IS NOT OCCUPIED. 1501.5: FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE OBC AND CH. 33 OF THE INTERNATIONAL FIRE CODE. 1501.6: PEDESTRIANS SHALL BE PROTECTED DURING CONSTRUCTION

AND DEMOLITION ACTIVITIES. SIGNS SHALL BE PROVIDED TO DIRECT PEDESTRIAN TRAFFIC. REFER TO TABLE 1501.6 AND LOCAL AHJ FOR PROTECTION REQUIREMENTS. 1504.1: FIRE EXTINGUISHERS - STRUCTURES UNDER CONSTRUCTION, ALTERATION OR DEMOLITION SHALL BE PROVIDED WITH NOT FEWER THAN ONE APPROVED PORTABLE FIRE EXTINGUISHER PER

1505.2: MEANS OF EGRESS AND REQUIRED ACCESSIBLE MEANS OF EGRESS SHALL BE MAINTAINED AT ALL TIMES UNLESS AN APPROVED TEMPORARY MEANS OF EGRESS IS PROVIDED.

OBC CHAPTER 3: USE AND OCCUPANCY CLASSIFICATION 304.1:USE GROUP: BUSINESS, B [OFFICE/JAIL] , S-2 [GARAGE]

308.4.2; BUILDINGS CONTAINING FIVE OR FEWER PERSONS WHO ARE BEING SECURED OR RESTRAINED ARE INCLUDED IN THE PRIMARY OCCUPANCY CLASSIFICATION [BUSINESS]

BC CHAPTER 5: GENERAL BUILDING HEIGHT AND AREA TABLE 504.3: BUILDING HEIGHT: ALLOWED: [B: 75'/ S-2: 75']

ACTUAL: ±40' [EXISTING - NO CHANGE] TABLE 504.4: STORIES: ALLOWED: [B: 4/ S-2: 4] ACTUAL: 1 STORY WITH BASEMENT [EXISTING - NO CHANGE] TABLE 506.2: AREA: ALLOWED: [**B: 69,000 SF**/ S-2: 78,000 SF] ± 26,574 S.F. [OK] ACTUAL: MAIN LEVEL AREA: BASEMENT AREA: ± 11,098 S.F.

TOTAL BUILDING AREA: ± 37,672 S.F. [EXISTING - NO CHANGE] 508.3: MIXED USE, NONSEPARATED OCCUPANCIES - MOST RESTRICTIVE ALLOWANCES APPLY

OBC CHAPTER 6: TYPES OF CONSTRUCTION PRIMARY STRUCTURAL FRAME = 0 HOUR

EXTERIOR BEARING WALLS = 0 HOUR INTERIOR BEARING WALLS = 0 HOUR

NON-BEARING WALLS = 0 HOUR FLOOR CONSTRUCTION = 0 HOUR

ROOF CONSTRUCTION = 0 HOUR 602.2: CONSTRUCTION TYPE: II B [NON-COMBUSTIBLE] - EXISTING [ORIGINAL III B CONSTRUCTION WHEN BUILT]

OBC CHAPTER 7: FIRE AND SMOKE PROTECTION FEATURES FIRE SEPARATION DISTANCE. X>30: 0 [ALL EXTERIOR WALLS EXCEED 40' TO PROPERTY LINE]

BC CHAPTER 8: INTERIOR FINISHES 03.1.2: INTERIOR WALL AND CEILING FINISH MATERIALS CLASS A = FLAME SPREAD INDEX 0-25, SMOKE DEVELOPED INDEX 0-450 CLASS B = FLAME SPREAD INDEX 26-75, SMOKE DEVELOPED INDEX 0-450 CLASS C = FLAME SPREAD INDEX 76-200, SMOKE DEVELOPED INDEX 0-450 TABLE 803.13: INTERIOR WALL AND CEILING FINISH REQUIREMENTS B [SPRINKLERED] EXIT ENCLOSURES AND PASSAGEWAYS: CLASS B CLASS C CLASS C

ROOMS AND ENCLOSED SPACES: 804.4.2: FLOOR FINISH - MINIMUM CRITICAL RADIANT FLUX USE GROUP 'B' = CLASS II

DBC CHAPTER 9: FIRE PROTECTION SYSTEMS ECTION 903: USE GROUP 'B': AUTOMATIC FIRE SPRINKLER SYSTEM PROVIDED - EXISTING SYSTEM TO REMAIN. MODIFICATIONS TO

EXISTING SYSTEM SHALL BE CONSIDERED DELEGATED DESIGN AND SUBMITTED BY OTHERS FOR APPROVAL BY THE AHJ. 906.1: PORTABLE FIRE EXTINGUISHERS IN ACCORDANCE WITH FIRE CODE TABLE 906.3[1]: MAXIMUM DISTANCE OF TRAVEL TO EXTINGUISHER = 75"

### 907.2.2: USE GROUP 'B': FIRE ALARM PROVIDED - EXISTING SYSTEM TO REMAIN. MODIFICATIONS TO EXISTING SYSTEM SHALL BE CONSIDERED DELEGATED DESIGN AND SUBMITTED BY OTHERS FOR APPROVAL BY THE AHJ.

OBC CHAPTER 10: MEANS OF EGRESS - NO CHANGE REQUESTED TABLE 1004.5: REFER TO CODE REVIEW PLANS NO CHANGE OF OCCUPANCY REQUESTED PREVIOUS PERMIT APPROVALS = 377 OCCUPANTS

1005.3: EGRESS WIDTH OCCUPANCY 377 X .20 = 75.4" ACTUAL = 7 DOORS = NET CLEAR WIDTH = 374" [OK]

- STAIRS OCCUPANCY 111 X .30 = 33.3" [FROM BASEMENT] ACTUAL = 2 DOORS = NET CLEAR WIDTH = 68" [OK] NO CHANGE TO BUILDING EGRESS
- TABLE 1006.2.1: SPACES WITH 1 EXIT OR 1 EXIT ACCESS DOORWAY 'B' USE - 49 OCCUPANTS - 100' MAX. COMMON PATH OF TRAVEL \*\*SEE PLANS FOR TRAVEL DISTANCE AND COMMON PATH OF TRAVEL\*\*

TABLE 1006.3.3: MINIMUM NUMBER OF EXITS 0-500 OCCUPANTS = 2 [7 EXITS PROVIDED - EXISTING, NO CHANGE] 1010.1.2.1: SWINGING DOORS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL WHERE SERVING A ROOM OR AREA WITH AN OCCUPANT LOAD OF 50 OR MORE. 1010.2: EGRESS DOORS SHALL BE READILY OPENABLE FROM THE

EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE. SEE NOTES ON CODE REVIEW PLAN. TABLE 1017.2: EXIT ACCESS TRAVEL DISTANCE: 'B' USE W/ SPRINKLER = 300' TRAVEL DISTANCE

\*\*ACTUAL TRAVEL DISTANCE - REFER TO CODE REVIEW PLANS\*\* TABLE 1020.2: CORRIDORS SERVING MORE THAN 30 PERSONS = 0 HOUR W/ SPRINKLER SYSTEM TABLE 1020.3: CORRIDOR WIDTH: MIN. 36" [SERVING LESS THAN 50

PERSONS] 44" [SERVING OVER 50] OBC CHAPTER 11: ACCESSIBILITY

SAFE HARBOR - ANSI ICC A117.1-2009 1104.1: ACCESSIBLE ROUTE PROVIDED TO REAR ENTRANCE. 1105.1: ACCESSIBLE ENTRANCE PROVIDED TO REAR ENTRANCE

1106.1: ACCESSIBLE PARKING PROVIDED 1110.2: ACCESSIBLE TOILET ROOM PROVIDED.

1112.1: ACCESSIBLE SIGNAGE - PROVIDED FOR TOILET ROOMS, AND OTHER AREAS REQUIRED BY ANSI/ADA.

1402.2: EXTERIOR WALLS SHALL PROVIDE THE BUILDING WITH A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE. THE EXTERIOR WALL ENVELOPE SHALL BE DESIGNED AND CONSTRUCTED IN SUCH A MANNER AS TO PREVENT THAT ACCUMULATION OF WATER WITHIN THE WALL ASSEMBLY BY PROVIDING A WATER-RESISTIVE BARRIER BEHIND THE EXTERIOR VENEER. 1403.5: EXTERIOR WALLS CONSTRUCTED OF COLD-FORMED OR

STRUCTURAL STEEL SHALL BE DESIGNED IN ACCORDANCE WITH CH. 22. REFER TO DESIGN CRITERIA ON SHEET S0.1. 1403.14: EXTERIOR ALL COVERINGS ATTACHED TOT EH BUILDING STRUCTURE THROUGH FOAM PLASTIC INSULATING SHEATHING SHALL COMPLY WITH THE ATTACHMENT REQUIREMENTS OF

SECTION 2603.11-2603.13. 1404.11: VENEERS OF METAL SHALL BE FABRICATED FROM APPROVED CORROSION-RESISTANT MATERIALS OR PROTECTED TO RESIST CORROSION.

1404.11.1: VENEERS SHALL BE ATTACHED WITH CORROSION-RESISTANT FASTENINGS, METAL TIES OR OTHER APPROVED METHODS AND SPACING SHALL NOT EXCEED 24".

<u>DBC CHAPTER 26</u> ABLE 705.5: FIRE-RESISTANCE RATING FOR EXTERIOR WALLS BASED ON 2603.4: FOAM PLASTIC SHALL BE SEPARATED FROM THE INTERIOR OF A BUILDING BY AN APPROVED THERMAL BARRIER OF 1/2" GYPSUM WALLBOARD OR OTHER APPROVED MATERIAL.

OBC CHAPTER 2	9: PLUMBING SYSTEMS		
TABLE 2902.1:	NO CHANGE IN OCCUPANCY LOAI	O 377 OCCUF	PANTS
	B- USE [189 MEN/189 WOMEN]		
MEN	WATER CLOSETS.	REQ'D	ACTUAL
	1/25 FIRST 50 + 1/50 OVER 50	5	4 + 5 URN
	LAVATORIES		
	1/40 FIRST 80 + 1/80 OVER 80	4	4
WOMEN	WATER CLOSETS.	REQ'D	ACTUAL
	1/25 FIRST 50 + 1/50 OVER 50	5	7
	LAVATORIES		
	1/40 FIRST 80 + 1/80 OVER 80	4	4
	N TO THE ABOVE 3 SINGLE USER	ACCESSIBLE	= UNISEX

TOILET ROOMS HAVE BEEN ADDED TO THE BUILDING AS PART OF THE RENOVATIONS EXISTING DRINKING FOUNTAINS AND MOP SINKS TO REMAIN, NO CHANGE

### WALL / SYMBOL LEGEND EXISTING WALLS/FINISHES TO BE REMOVED EXISTING WALL TO REMAIN NEW CONCRETE FOUNDATION WALL NEW METAL STUD WALL $\langle \# \rangle$ DEMOLITION KEY NOTE # NEW CONSTRUCTION KEY NOTE (#) REFLECTED CEILING KEY NOTE

<#> (101) W-00

CR

ELEVATION TAG

ACCESS CONTROL - CARD READER ADA OPERATOR BUTTON

ALTERNATE DEDUCTS ALT DEDUCT 01

REMOVE INTERIOR PAINTING OF SELECTED AREAS OF THE BUILDING ALT DEDUCT 02

REMOVE EXTERIOR FAÇADE IMPROVEMENTS. EXISTING BUILDING ENVELOPE TO REMAIN ALT DEDUCT 03

REMOVE INSTALLATION OF SPRAY FOAM INSULATION AT THE UNDERSIDE OF THE METAL ROOF DECK AT BUILDING AREA B ALT DEDUCT 04

REMOVE ALTERATIONS AT THE POLICE DEPARTMENT TOILET ROOMS [BUILDING AREA C] ALT DEDUCT 05

REMOVE EXTERIOR SITE LIGHTING

COORDINATE WITH DRAWINGS / SPECIFICATIONS











2023-	215
Date	
Augu	ıst 30, 2024
Date	Issue
07.03.24	90% CD
08.07.24	Final Review
08.30.24	Bid/Construction Set
Sheet Tit	le
Proie	ct Title Sheet

Project Number



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JONATHAI ROBERT SCHAAF Jonathan Robert Schaaf #14503 Expiration Date 12/31/2025 This drawing is the architect's instrument of service for use solely with respect to this project. RDA Group Architects is the author of this document and shall retain all copyrights and other reserved rights, unless otherwise agreed upon in writing. © RDA 2024













Project Number 2023-215 Date August 30, 2024 Date Issue 07.03.24 90% CD 08.07.24 Final Review 08.30.24 Bid/Construction Set \_\_\_\_\_ Sheet Title Code Review Plans











































## ACCESSIBILITY MOUNTING & CLEARANCE STANDARDS











Project N 2023-	Number 215
Date	
Augu	ist 30, 2024
Date	Issue
07.03.24	90% CD
08.07.24	Final Review
08.30.24	Bid/Construction Set
Sheet Tit	le
Gene Stanc	eral Accessibility dards, Wall Types
Shaat Nu	



<u>FINIS</u>	H SPECIFICATION	S
LVT-1:	LUXURY VINYL TILE [++ MATERIAL MANUF: PATCRAFT COLOR: SUNDIAL INSTALLATION: STAGGER	PROVIDED BY OWNER] NAME: ADMIX 1508V SIZE: 18X36 PLANK
LVT-2:	LUXURY VINYL TILE [++ MATERIAL MANUF: PATCRAFT COLOR: CLAY INSTALLATION: BRICK	- PROVIDED BY OWNER] NAME: KILN [I727V/00720] SIZE: 9X36 PLANK
T-1:	TILE [++ MATERIAL PROVIDED BY MANUF: WAUSAU TILE COLOR: MILKWEED INSTALLATION: STRAIGHT [WITH TB-1 PER PLANS/ELEVATION	OWNER] NAME: PRAIRIE SERIES SIZE: 24X24 NS]
PT-1:	PORCELAIN MOSAIC FLOOR TILE MANUF: DALTILE COLOR: DESERT GRAY [D014] GROUT: SUBMIT SAMPLES TO ARC [WITH TB-2 PER PLANS/ELEVATION	STYLE: KEYSTONES SIZE: 1X1 MOSAIC CHITECT FOR SELECTION NS]
EP-1:	EPOXY MANUF: SHERWIN WILLIAMS COLOR: STEEL GRAY [54]	SYSTEM: RESUFLOR
CPT-1:	CARPET TILES [++ MATERIAL PRC MANUF: PATCRAFT COLOR: STONE HEARTH INSTALLATION: ASHLAR	OVIDED BY OWNER] NAME: INSTINCT [I0501/00550] SIZE: 24X24
CPT-2	CARPET TILES [++ MATERIAL PRO MANUF: PATCRAFT COLOR: INTENT INSTALLATION: BRICK	OVIDED BY OWNER] NAME: LOGIC [I0460/00750] SIZE: 24X24
CPT-3:	CARPET TILES [++ MATERIAL PRO MANUF: PATCRAFT COLOR: UNDERLYING LY. INSTALLATION: STAGGER	OVIDED BY OWNER] NAME: PATINA [I0511/00480] SIZE: 12X48 PLANK
CPT-4:	CARPET TILES [++ MATERIAL PRO MANUF: PATCRAFT COLOR: MEANDER INSTALLATION: MONO.	OVIDED BY OWNER] NAME: ACCESS [10533/00570] SIZE: 24X24
CPT-5:	CARPET TILES MANUF: MILIKEN COLOR: NORDIC NOIR INSTALLATION: MONO.	NAME: TECTONIC [TTC67-119] SIZE: 19.7X19.7
CPT-6:	CARPET TILES [++ MATERIAL PRO MANUF: PATCRAFT / STATIC SMART COLOR: WIGGLEWORTH INSTALLATION: BRICK	OVIDED BY OWNER] NAME: COLONIAL SIZE: 24X24
PNT-1:	GENERAL PAINT MANUF: SHERWIN WILLIAMS COLOR: EXTRA WHITE [SW 7006] LOCATION: ALL, U.N.O.	FINISH: SATIN
PNT-2:	PAINT MANUF: SHERWIN WILLIAMS COLOR: GREEK VILLA [SW 7551] LOCATION: OFFICES	FINISH: SATIN
PNT-3:	ACCENT PAINT MANUF: SHERWIN WILLIAMS COLOR: TONY TAUPE [SW 7038]	FINISH: SATIN
PNT-4:	TRIM PAINT MANUF: SHERWIN WILLIAMS COLOR: BLACK FOX ISW 70201	FINISH: SEMI-GLOOS
PNT-5:	ACCENT PAINT MANUF: SHERWIN WILLIAMS COLOR: NAVAL ISW 62441	FINISH: SATIN
PNT-6:	ACCENT PAINT MANUF: SHERWIN WILLIAMS	
PNT-7:	ACCENT PAINT MANUF: SHERWIN WILLIAMS COLOR: VOGUE GREEN [SW 0065]	FINISH: SATIN
PNT-8: PNT-9 <sup>.</sup>	NOT USED	
	MANU: SHERWIN WILLIAMS COLOR: TRICORN BLACK [SW 6258	3] FINISH: SEMI-GLOSS
PNT-10:	PAINT [ALL GYP. BD. CEILING] MANU: SHERWIN WILLIAMS COLOR: HIGH REFLECTIVE WHITE	[SW 7757] FINISH: FLAT
CONC-1:	EXISTING EXPOSED AGGREGATE CLEAN AND APPLY SEALER W.R. MEADOWS - VOCOMP-25	CONCRETE WALL TO REMAIN,
WT-1:	WALL TILE MANUF: DALTILE COLOR: BLANC LINEN INSTALLATION: STACK BOND, HOP GROUT: SUBMIT SAMPLES TO ARC	STYLE: FABRIQUE SIZE: 12X24 RIZONTAL CHITECT FOR SELECTION
VB-1:	VINYL WALL BASE MANUF: JOHNSONITE SIZE: 4"	COLOR: GANACHE [284]
VB-2:	VINYL WALL BASE [POLICE / AREA MANUF: JOHNSONITE SIZE: 6"	C] COLOR: BLACK [40]
TB-1:	TILE BASE [CORRESPONDS WITH [++ MATERIAL PROVIDED BY OWN MANUF: WAUSAU TILE COLOR: MILKWEED GROUT: SUBMIT SAMPLES TO ARC	T-1] ER] NAME: PRAIRIE SERIES SIZE: 4X24 CHITECT FOR SELECTION
TB-2:	4" COVE TILE BASE [CORRESPONI MANUF: DALTILE COLOR: DESERT GRAY [D014] GROUT: SUBMIT SAMPLES TO ARC	DS WITH PT-1 / WT-1] STYLE: KEYSTONES SIZE: 1X1 MOSAIC CHITECT FOR SELECTION
ST-1:	STAIR TREADS / RISERS MANUF: JOHNSONITE RUBBER TREAD WITH INTEGRATE FAST LANE TREAD/RISER FOR VIS [BEIGE 49 INSERT] INSTALL COMPLETE WITH COLOR	COLOR: GANACHE D RISER UALLY IMPAIRED MATCH RUBBER STRINGERS
ATC-1:	ACOUSTIC TILE CEILING MANUF: ARMSTRONG STYLE:15/16 BEVELED TEGULAR SIZE: PER REFLECTED CEILING PL SUSPENSION SYSTEM: PRELUDE	MODEL: TUNDRA COLOR: WHITE AN XL 15/16
PLAM-1	PLASTIC LAMINATE CABINETS MANUF: WILSONART COLOR: MORRO ZEPHYR 4846-60	FINISH: MATTE
PLAM-2	PLASTIC LAMINATE COUNTERS MANUF: WILSONART COLOR: HANDSPUN CHESTNUT 50	)36-38 FINISH: MATTE
SS-1:	SOLID SURFACE COUNTERS MANUF: FORMICA	COLOR: TUMBLED GLASS [413]
SS-2:	SOLID SURFACE COUNTERS [TOIL MANUF: WILSONART	ET ROOMS] COLOR: DUSK ICE 9203CE
WC-1:	WALLCOVERING MANUF: MDC STYLE: ARGENTI/HAVANA	COLOR: MAG1510
WC-2:	WALLCOVERING	

MANUF: MDC

STYLE: FRET JFR8205

COLOR: EARL GREY

\_\_\_\_ TOILET ACCESSORY SCHEDULE

_			
MARK	DESCRIPTION	MFR.	MODEL
T01	12" GRAB BAR	-	-
T02	18" GRAB BAR	BOBRICK	#5806
Т03	24" GRAB BAR	-	-
T04	30" GRAB BAR	-	-
T05	36" GRAB BAR	BOBRICK	#5806
T06	42" GRAB BAR	BOBRICK	#5806
T07	48" GRAB BAR	-	-
T08	CORNER GRAB BAR	-	-
T11	18"x36" MIRROR	BOBRICK	#B-165
T12	24"x36" MIRROR	-	-
T13	16"x26" MED. CAB. W/ MIRROR	-	-
T21	TOILET PAPER DISPENSER	BOBRICK	#B-2888
T22	PAPER TOWEL DISPENSER	CONFIRM WIT	H OWNER
T23	SOAP DISPENSER	BOBRICK	#B-4112
T24	SANITARY NAPKIN DISPENSER	BOBRICK	#B-270
T25	TOILET SEAT COVER DISPENSER	BOBRICK	#B-4221
T26	ELECTRIC HAND DRYER	-	-
T27	SEMI RECESSED TOWEL/TRASH	BOBRICK	#B-3942
T31	SUPPLY / DRAIN PIPING WRAP	TRU BRO	-
T41	SHOWER CURTAIN ROD	-	-
T42	FOLDING SHOWER SEAT	-	-
T43	REMOVABLE SHOWER SEAT	-	-
T51	18" TOWEL BAR	-	-
T52	24" TOWEL BAR	-	-
T53	COAT HOOK	BOBRICK	B-76717
T61	BABY CHANGING STATION	-	-

\* REFER TO PROPOSED PLANS/ELEVATIONS FOR LOCATION \* ALL ACCESSORIES TO BE CONFIRMED WITH ARCHITECT & OWNER PRIOR TO ORDERING

<u>FINIS</u>	SH SPECIFICAT	IONS [CONT.]
TP-1:	TOILET PARTITIONS MANUF: ACCURATE / ASI STYLE: PHENOLIC COLOR COLOR: DARK GREY 3871C	THRU
TR-1:	TRANSITION [CARPET TO V MANUF: JOHNSONITE	INYL]
	STYLE: CTA-47-A	COLOR: BROWN
TR-2:	TRANSITION [VINYL TO VIN MANUF: JOHNSONITE	YL]
	STYLE: CTA-47-Y	COLOR: BROWN
TR-3:	TRANSITION [VINYL TO SUE MANUE: JOHNSONITE	BFLOOR]
	STYLE: CTA-47-JL	COLOR: BROWN
TR-4:	TRANSITION [TILE TO TILE] MANUF: SCHLUTER STYLE: J100 3/8" = 10MM	COLOR: BRUSHED STAINLESS
TR-5:	TRANSITION [TERRAZZO TO	) CARPET / VINYL]
	MANUF: SCHLUTER STYLE: RENO-V 3/4" = 10MN	COLOR: SATIN ANODIZED
TR-6:	TRANSITION [TOILET ROOM MANUF: SCHLUTER STYLE: QUADEC [OUTSIDE JOLLY [TILE EDGE / COLOR: SATIN ANODIZED	IS] CORNER TRANSITION END]
MP-1:	EXTERIOR METAL PANEL S' MANUF: ALUCOBOND COLOR: BEACHSTONE GRA	YSTEM STYLE: WET SEAL Y METALLIC
MP-2:	EXTERIOR METAL PANEL S' MANUF: ALUCOBOND STY COLOR: EPERNAY CHAMPA	YSTEM LE: EASY FIX TOP TO BOTTOM .GNE METALLIC
MP-3:	EXTERIOR WOOD LOOK ME MANUF: LONGBOARD COLOR: TABLE WALNUT	TAL SOFFIT / SIDING SYSTEM STYLE: 6" V GROOVE
EX:	EXISTING FINISH TO REMAI	N
ALL FINIS TO ORDE	HES TO BE CONFIRMED WITH RING.	ARCHITECT AND OWNER PRIOR
++ MATEF G.C. SHAL	RIAL BY OWNER: OWNER TO F	PROVIDE FINISH MATERIAL ONLY. NUF. SPECIFICATIONS

INCLUDING ANY GROUTS / ADHESIVES / ETC.



	#	SIZE	EW	XISTING	ALVAGED			HDWR.	FIRE	REMARKS	
_	# 101	SIZE	Ž		8	E-3	D-6	5E1 #	RATG		CONTROL
-	102A	3'-0" X 6'-8"				F-1	D-3	HW-6	-	DOOR RELEASE FROM RECEPT 103	
										PROVIDE KICK PLATE	
	103	3'-0" X 6'-8"		-		F-1	D-7	HW-4	-		•
	105	[2] 3'-0" X 7'-0"				EX	EX	HW-18	-	NEW ACCESS CONTROL AT EX. DOOR	
	107	3'-0" X 6'-8"				F-1	D-1	HW-9	-	PROVIDE KICK PLATE	
ŀ	108A	3-0" X 6'-8"				F-1	D-1	HVV-14	-	-	
ŀ	1000	3-0 × 0-0		-					-	- REMOVE EX., INSTALL NEW HDWR	
	109	3-0 × 0-0				F-1	D-1	HVV-10	-	AT EX. DOOR/FRAME MODIFY/REPAIR DOOR/FRAME AS REQ'D	
	110	3'-0" X 6'-8"			•	F-2	D-1	HW-10	-	AT EX. DOOR/FRAME MODIFY/REPAIR DOOR/FRAME AS REQ'D	
	111	3'-0" X 6'-8"			•	F-1	D-1	HW-7	-	REMOVE EX., INSTALL NEW HDWR AT EX. DOOR/FRAME MODIFY/REPAIR DOOR/FRAME AS REQ'D	
	112	3'-0" X 6'-8"			•	F-1	D-1	HW-8	-	REMOVE EX., INSTALL NEW HDWR AT EX. DOOR/FRAME MODIFY/REPAIR DOOR/FRAME AS REQ'D	
ŀ	113	3'-0" X 6'-8"				EX.	EX.	EX.	-	NO WORK THIS DOOR	EX
ŀ	114A	3'-0" X 6'-8"	•			F-1	D-3	HW-4	-	-	•
ł	114B	3'-0" X 6'-8"	•			F-2	D-1	HW-13	-	COORDINATE FRAME TYPE W/ FIELD	
-	115	3'-0" X 6'-8"			•	F-1	D-1	HW-10	-	CONDITIONS AFTER DEMO REMOVE EX., INSTALL NEW HDWR AT EX. DOOR/FRAME MODIFY/REPAIR DOOR/FRAME AS REQ'D	
ľ	116	3'-0" X 6'-8"	•			F-1	D-1	HW-13	-	-	
ľ	118	3'-0" X 6'-8"	•			F-1	D-1	HW-11	-	UNDERCUT DOOR	
ľ	119	3'-0" X 6'-8"				F-1	D-1	HW-11	-	UNDERCUT DOOR	
	120	3'-0" X 6'-8"		$\bullet$		EX.	EX.	EX.	-	NO WORK THIS DOOR	
	121	3'-0" X 6'-8"				EX.	EX.	EX.	-	NO WORK THIS DOOR	
	122	3'-0" X 6'-8"				EX.	EX.	EX.	-	NO WORK THIS DOOR	
	123	3'-0" X 6'-8"		•		EX.	EX.	HW-17	-	REMOVE EX., INSTALL NEW CARD READER HDWR AT EX. DOOR/FRAME MODIFY/REPAIR DOOR/FRAME AS REQ'D	•
	124A	3'-0" X 6'-8"				EX.	EX.	EX.	-	NO WORK THIS DOOR	
	124B	3'-0" X 6'-8"	lacksquare			F-2	D-2	HW-10	-	-	
	133	3'-0" X 6'-8"			•	F-1	D-1	HW-10	-	REMOVE EX., INSTALL NEW HDWR AT EX. DOOR/FRAME MODIFY/REPAIR DOOR/FRAME AS REQ'D	
	135	3'-0" X 6'-8"			•	F-1	D-1	HW-10	-	REMOVE EX., INSTALL NEW HDWR AT EX. DOOR/FRAME MODIFY/REPAIR DOOR/FRAME AS REQ'D	
-	136	3'-0" X 6'-8"	•			F-1	D-1	HW-10	-		
-[	140A	[2] 3'-0" X 7'-0"				F-4	D-5	HW-1	-	ADA OPERATOR [ALT DEDUCT 02]	
	140B	[2] 3'-0" X 7'-0"	$\bullet$			F-4	D-5	HW-1	-	ADA OPERATOR [ALT DEDUCT 02]	
-	141	2'-8" X 6'-8"	$\bullet$			F-1	D-4	HW-7	-		
-	150	3'-6"+1'-6" X 6'-8"				F-3	D-6 OPP	HW-2	-	ADA OPERATOR, DOOR RELEASE	
ŀ	150B	3'-0" X 6'-8"				EX.	EX.	EX.	_	NO WORK THIS DOOR	
ŀ	154	3'-0" X 6'-8"				F-1	D-1	HW-5	-	EVIDENCE - KEYED STOREROOM +	•
										CARD READER	_
ŀ	159	3'-0" X 6'-8"				F-1	D-1	HW-16	-		
	161	3'-0" X 6'-8"				EX	D-1	HW-16	-	TO RECEIVE NEW DOOR - UNDERCUT DOOR	
-	162	3'-0" X 6'-8"	•			F-1	D-1	HW-11	-	UNDERCUT DOOR	
-	001	3'-0" X 6'-8"	$\bullet$			EX	D-1	HW-12	90		
	003	3'-0" X 6'-8"	$\bullet$			EX	D-1	HW-19	-	EXISTING MAG LOCK TO REMAIN	
ŀ	004	3'-0" X 6'-8"		-		FY	D_4	H\W_15	-		
ŀ	005	3'-0" X 6'-8"		-		EX	D-1	HW-7	90		
ŀ	006	3'-0" X 6'-8"		+		EX	D-1	HW-12	90		
ŀ	007	3'-0" X 6'-8"	•	1		EX	D-4	HW-4	-	PROVIDE KICK PLATE	
ŀ	009	3'-0" X 6'-8"	•			EX	D-4	HW-15	-		-
ŀ	011	3'-0" X 6'-8"	•	1		EX	D-1	HW-8	-		1
ŀ	012	2'-8" X 6'-8"	•			EX	D-1	HW-16	-	UNDERCUT DOOR	
ŀ	013	2'-8" X 6'-8"				EX	D-1	HW-16	-	UNDERCUT DOOR	
ľ	014	3'-0" X 6'-8"	$\bullet$			EX	D-4	HW-9	-		
-	015	3'-0" X 6'-8"	•			EX	D-4	HW-9	-		
	UNITS ** D EXIS	S INDICATED AS SA OORS INDICATED STING DOORS TO	LVA AS REN	GED PAR MAIN	ARE T OF	FOR TH	ie door deduc plicabl	SLAB O	NLY - PR L BE RE IESE LO	ROVIDE NEW FRAMES / HARDWARE AS IN MOVED FROM SCOPE. CATIONS.	IDICATED
	FR	AME TYP	ES	3							
	~ ′	2" HOLLOW METAI	$\sim$					INTERIO	R 4 1/2" N	ON EXTERIOR 6"	





Set: H	<u>HW-1</u>				Set: HW-5			
Doors	s: 140A, 140B ription: Exterior Aluminum Egres	s Pair - Lockable Push / Pull x Auto-D	oor		Doors: 154 Description: Access Control Function	x Closer w/ Stop		
2	Continuous Hinge	DFMxxSLF-HD1-M		PE	2 Hinge, Full Mortise	TA2714 NRP (size per spec)	US10BE	MK
1 1	Removable Mullion Rim Exit Device, NL/CD	L980A 16 21 AD8504 Less Pull LA MK	US10B US10BE	SA SA	1 Elec Hinge, Full Mortise 1 Fail Secure Lock	TA2714 QC (size per spec) RX 21 10XG71 LL LA MK	US10BE US10BE	MK SA
1	Rim Exit Device, EO/CD	16 AD8510 EO	US10BE	SA	1 Door Closer w/ Stop	351 CPS	EB	SA
1	Cylinder Mortiso Cylindor	21 980C1 LA MK	US10B	SA	3 Silencer	608/609 OC C3000P		RO
2	Offset Door Pull	RM3311-24 Mtg-Type 12XHD	10BE	RO	1 Wiring Harness (door)	QC-CxxxP length as req'd		MK
2	Concealed Overhead Stop	6-336	613E	RF	1 Position Switch	DPS		SU
1 1	Surface Closer Closer Mtg Plate	351 OZ 351B (T I)	EB	SA SA	1 Access Control Reader	by Security Contractor		OT
1	Automatic Opener	6331	690	NO	1 Wiring Diagram	Elev. & Point-to-Point		OT
1	Threshold	253x3AFG FHSL14SS		PE	Notes:			
2	Position Switch	DPS MKA2		SU	Door position switch to monitor openi	se lever or key override. Free egree ng status. Exit device has RX optic	in to signal egress.	
2	ADA Door Switch	50x series as req'd		NO	Coordinate with electrical and securit	y contractors.	5 5	
1	Power Supply (consolidate)	AQD x amps/options as req'd		SU	Set: HW-6			
1	Seals, Sweeps & Astragal	By Aluminum Door Mfr.		OT	Doors: 102A			
Notes	S:		h l f - )		Description: Access Control Function	x Remote Release		
Push	/ Pull operation as required by e	in locked. Free egress at all times (both exit device dogging with keyed lock cyli	n leais). inders.		1 Elec Hinge, Full Mortise	TA2714 NRP (size per spec)	US10BE	MK
Door	position switches to monitor ope	ning status.			1 Fail Secure Lock	RX 21 10XG71 LL LA MK	US10BE	SA
Auto-	-Door system must be powered of dinate with electrical and security	off with keyswitch when doors are lock	ed.		1 Door Closer, Tri-Mount 1 Door Stop	351 UO 400 series as regid	EB 10BE	SA RO
0000					3 Silencer	608/609	IUDE	RO
Set: H	<u>HW-2</u>				1 Wiring Harness (frame to PS)	QC-C3000P		MK
Desc	ription: Aluminum Pair- Active x l	Inactive - Access Control Function x A	uto-Door x Remo	te Release	1 Position Switch	DPS		SU
1	Continuous Hinge	DFMxxSLF-HD1-M PT		PE	1 Access Control Reader	by Security Contractor		OT
1 1	Continuous Hinge Electric Power Transfer	DFMXXSLF-HD1-M FL-CEPT	613E	PE SU	1 Door Release 1 Power Supply (consolidate)	IS-18D AOD x amps/options as reg/d		AK SU
2	Flush Bolt	555	10BE	RO	1 Wiring Diagram	Elev. & Point-to-Point		OT
1	Dust Proof Strike	570 20.21.10XC04.11.1.4 MK	10BE	RO	Notes:	roloase by Pecentian dask to roloa	so lovor or kov ovorric	10
1	Electric Strike	1500C	613E	HS	Free egress at all times.	release by Reception desk to relea	se level of key overhu	<i>i</i> e.
1	Bridge Rectifier	2005M3		HS	Door position switch to monitor openi	ng status. Exit device has RX optic	n to signal egress.	
1 1	Automatic Opener	6331 400 series as reg'd	690 10BE	NO RO	Coordinate with electrical and securit	y contractors.		
1	Wiring Harness (frame to PS)	QC-C3000P		MK	Set: HW-7			
1	Wiring Harness (door)	QC-CxxxP length as req'd		MK	Doors: 005, 111, 141 Description: Storeroom Function x Cl	oser		
1	Access Control Reader	by Security Contractor		OT	3 Hinge, Full Mortise	TA2714 (size per spec)	US10BE	MK
1	Door Release	TS-18D		AK	1 Storeroom Lock	21 10XG04 LL LA MK	US10BE	SA
2	ADA Door Switch Power Supply (consolidate)	AQD x amps/options as reg'd		NU SU	1 Kick Plate	K1050 10" high x CSK x BEV	ЕБ 10BE	RO
1	Wiring Diagram	Elev. & Point-to-Point		OT	1 Door Stop	400 series as req'd	10BE	RO
1	Seals, Sweeps & Astragal	By Aluminum Door Mfr. By Security Contractor		OT	3 Silencer	608/609		RO
Notes	S:	By Security Contractor		01	Salvaged Doors & Frames where app	blicable:		
Entry	by valid input at reader/remote s	signal from reception to release electri	c strike or manua	ıl key.	Field verify existing hardware prep size	zes/locations. Alter hardware set as	required for direct ret	trofit.
Free	egress at all times.	ning status I ask has DV setion to sig						
000	Dosition switches to monitor ope	ning slalus. Lock has RX oplion to sig	inal earess.		Set: HW-8			
Read	ler and electric strike must be inte	egrated with auto-door operator syster	inal egress. m.		<u>Set: HW-8</u> Doors: 011, 112			
Read	ler and electric strike must be into y ADA switch active only by inpu dor 150 ADA switch is always ac	egrated with auto-door operator syster t at reader/remote signal from Recepti	inal egress. m. ion. ore opening cycle	<b>x</b>	Set: HW-8 Doors: 011, 112 Description: Storeroom Function x Ov 3 Hinge Full Mortise	/erhead Stop TA2714 (size per spec)	US10BE	МК
Read Lobby Corric	ler and electric strike must be intr y ADA switch active only by inpu dor 150 ADA switch is always ac dinate with electrical and security	egrated with auto-door operator syster t at reader/remote signal from Recepti tive and will release electric strike befor contractors.	Inal egress. m. ion. ore opening cycle		Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ov         3       Hinge, Full Mortise         1       Storeroom Lock	/erhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK	US10BE US10BE	MK SA
Read Lobby Corrid Coord	ler and electric strike must be into y ADA switch active only by inpu dor 150 ADA switch is always ac dinate with electrical and security	egrated with auto-door operator syster t at reader/remote signal from Recepti tive and will release electric strike befor y contractors.	inal egress. m. ion. ore opening cycle	).	Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ov         3       Hinge, Full Mortise         1       Storeroom Lock         1       Surface Overhead Stop         1       Door Stop	verhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as regid	US10BE US10BE US10BE 10BE	MK SA SA BO
Read Lobby Corrie Coord Set: H	ler and electric strike must be into y ADA switch active only by inpu dor 150 ADA switch is always ac dinate with electrical and security <u>HW-3</u> s: 101	egrated with auto-door operator syster t at reader/remote signal from Recepti tive and will release electric strike befor y contractors.	Inal egress. m. ion. ore opening cycle	<b>.</b>	Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ov         3       Hinge, Full Mortise         1       Storeroom Lock         1       Surface Overhead Stop         1       Door Stop         3       Silencer	verhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609	US10BE US10BE US10BE 10BE	MK SA SA RO RO
Read Lobby Corrie Coord Set: H Doors Desc	ler and electric strike must be inte y ADA switch active only by inpu dor 150 ADA switch is always ac dinate with electrical and security <u>HW-3</u> s: 101 ription: Aluminum Pair- Active x I	Inactive - Access Control Function x A	inal egress. m. ion. ore opening cycle uto-Door	). DE	Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ov         3       Hinge, Full Mortise         1       Storeroom Lock         1       Surface Overhead Stop         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where and	verhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609	US10BE US10BE US10BE 10BE	MK SA SA RO RO
Read Lobby Corrid Coord Set: H Doors Desci 1	ler and electric strike must be inte y ADA switch active only by inpu dor 150 ADA switch is always ac dinate with electrical and security <u>HW-3</u> s: 101 ription: Aluminum Pair- Active x I Continuous Hinge Continuous Hinge	Ing status. Lock has RX option to sig egrated with auto-door operator syster t at reader/remote signal from Recepti tive and will release electric strike befor contractors. Inactive - Access Control Function x A DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M	inal egress. m. ion. ore opening cycle uto-Door	). PE PE	Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ov         3       Hinge, Full Mortise         1       Storeroom Lock         1       Surface Overhead Stop         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep size	verhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609 blicable: zes/locations. Alter hardware set as	US10BE US10BE US10BE 10BE	MK SA SA RO RO
Read Lobby Corrid Coord Set: H Doors Desci 1 1	ler and electric strike must be inte y ADA switch active only by inpu dor 150 ADA switch is always ac dinate with electrical and security <u>HW-3</u> s: 101 ription: Aluminum Pair- Active x I Continuous Hinge Electric Power Transfer	Ining status. Lock has RX option to sig egrated with auto-door operator syster t at reader/remote signal from Recepti tive and will release electric strike befor contractors. Inactive - Access Control Function x A DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M EL-CEPT	Inal egress. m. ion. ore opening cycle uto-Door 613E	PE PE SU	Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ov         3       Hinge, Full Mortise         1       Storeroom Lock         1       Surface Overhead Stop         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep size	verhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609 blicable: zes/locations. Alter hardware set as	US10BE US10BE US10BE 10BE	MK SA SA RO RO
Read Lobby Corric Coord Set: H Doors Desc 1 1 1 2 1	ler and electric strike must be inter y ADA switch active only by inpu dor 150 ADA switch is always ac dinate with electrical and security <u>HW-3</u> s: 101 ription: Aluminum Pair- Active x I Continuous Hinge Continuous Hinge Electric Power Transfer Flush Bolt Dust Proof Strike	Inactive - Access Control Function x A DFMxxSLF-HD1-M EL-CEPT 555 570	inal egress. m. ion. ore opening cycle uto-Door 613E 10BE 10BE	PE PE SU RO BO	Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ov         3       Hinge, Full Mortise         1       Storeroom Lock         1       Surface Overhead Stop         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep size         Set: HW-9         Doors: 014       015	verhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609 blicable: zes/locations. Alter hardware set as	US10BE US10BE US10BE 10BE	MK SA SA RO RO
Read Lobby Corric Coord <u>Set: H</u> Doors Desc 1 1 1 2 1 1	ler and electric strike must be inte y ADA switch active only by inpu dor 150 ADA switch is always ac dinate with electrical and security <u>HW-3</u> s: 101 ription: Aluminum Pair- Active x I Continuous Hinge Continuous Hinge Electric Power Transfer Flush Bolt Dust Proof Strike Storeroom Lock (ALSF)	Inactive - Access Control Function x A DFMxxSLF-HD1-M EL-CEPT 555 570 20 21 10XG04 LL LA MK	inal egress. m. ion. ore opening cycle uto-Door 613E 10BE 10BE US10BE	PE PE SU RO RO SA	Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ov         3       Hinge, Full Mortise         1       Storeroom Lock         1       Surface Overhead Stop         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep size         Set: HW-9         Doors: 014, 015, 107         Description: Storeroom Function	verhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609 blicable: zes/locations. Alter hardware set as	US10BE US10BE US10BE 10BE	MK SA RO RO
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Read Lobby Corric Coord Doors Desci 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1	ler and electric strike must be inter y ADA switch active only by inpu dor 150 ADA switch is always ac dinate with electrical and security <u>HW-3</u> s: 101 ription: Aluminum Pair- Active x I Continuous Hinge Continuous Hinge Electric Power Transfer Flush Bolt Dust Proof Strike Storeroom Lock (ALSF) Electric Strike Bridge Rectifier Automatic Opener	Inactive - Access Control Function x A DFMxxSLF-HD1-M EL-CEPT 555 570 20 21 10XG04 LL LA MK 1500C 2005M3 6011	inal egress. m. ion. ore opening cycle uto-Door 613E 10BE 10BE US10BE 613E 613E	PE PE SU RO SA HS HS NO	Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ov         3       Hinge, Full Mortise         1       Storeroom Lock         1       Surface Overhead Stop         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep size         Set: HW-9         Doors: 014, 015, 107         Description: Storeroom Function         3       Hinge, Full Mortise         1       Storeroom Lock         1       Door Stop	verhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609 blicable: zes/locations. Alter hardware set as TA2714 (size per spec) 21 10XG04 LL LA MK 400 series as req'd	US10BE US10BE 10BE required for direct ref US10BE US10BE 10BE	MK SA RO RO trofit MK SA RO
Read Lobby Corric Coord Set: H Doors Desc 1 1 1 2 1 1 1 1 1 1 1 1	ler and electric strike must be inter y ADA switch active only by inpu dor 150 ADA switch is always ac dinate with electrical and security <u>HW-3</u> s: 101 ription: Aluminum Pair- Active x I Continuous Hinge Continuous Hinge Electric Power Transfer Flush Bolt Dust Proof Strike Storeroom Lock (ALSF) Electric Strike Bridge Rectifier Automatic Opener Door Stop	Inactive - Access Control Function x A DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M EL-CEPT 555 570 20 21 10XG04 LL LA MK 1500C 2005M3 6011 400 series as req'd	inal egress. m. ion. ore opening cycle uto-Door 613E 10BE 10BE US10BE 613E 690 10BE	PE PE SU RO RO SA HS HS NO RO	Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ov         3       Hinge, Full Mortise         1       Storeroom Lock         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep siz         Set: HW-9         Doors: 014, 015, 107         Description: Storeroom Function         3       Hinge, Full Mortise         1       Storeroom Lock         1       Door Stop         3       Hinge, Full Mortise         1       Storeroom Lock         1       Door Stop         3       Silencer	verhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609 Dicable: zes/locations. Alter hardware set as TA2714 (size per spec) 21 10XG04 LL LA MK 400 series as req'd 608/609	US10BE US10BE 10BE s required for direct ref US10BE US10BE 10BE	MK SA RO RO trofit MK SA RO RO
Stor         Read           Lobby         Corrie           Corrie         Corrie           Coorre         Set: H           Doors         Desc           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1	ler and electric strike must be inter y ADA switch active only by inpu dor 150 ADA switch is always ac dinate with electrical and security <u>HW-3</u> s: 101 ription: Aluminum Pair- Active x I Continuous Hinge Continuous Hinge Electric Power Transfer Flush Bolt Dust Proof Strike Storeroom Lock (ALSF) Electric Strike Bridge Rectifier Automatic Opener Door Stop Wiring Harness (frame to PS) Wiring Harness (door)	Inactive - Access Control Function x A DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M EL-CEPT 555 570 20 21 10XG04 LL LA MK 1500C 2005M3 6011 400 series as req'd QC-C3000P QC-CxxxP length as reg'd	inal egress. m. ion. ore opening cycle uto-Door 613E 10BE 10BE US10BE 613E 690 10BE	PE PE SU RO SA HS HS NO RO MK MK	Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ov         3       Hinge, Full Mortise         1       Storeroom Lock         1       Surface Overhead Stop         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep size         Set: HW-9         Doors: 014, 015, 107         Description: Storeroom Function         3       Hinge, Full Mortise         1       Storeroom Lock         1       Door Stop         3       Silencer	verhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609 blicable: zes/locations. Alter hardware set as TA2714 (size per spec) 21 10XG04 LL LA MK 400 series as req'd 608/609	US10BE US10BE 10BE required for direct ref US10BE US10BE 10BE	MK SA RO RO trofit MK SA RO RO
Stor         Read           Lobby         Corrie           Corrie         Corrie           Doors         Descention           1         1           1         1           1         1           1         1           1         1           1         1           1         2           1         1           1         2           1         2           1         2           1         2	ler and electric strike must be inter y ADA switch active only by inpu dor 150 ADA switch is always ac dinate with electrical and security <u>HW-3</u> s: 101 ription: Aluminum Pair- Active x I Continuous Hinge Continuous Hinge Electric Power Transfer Flush Bolt Dust Proof Strike Storeroom Lock (ALSF) Electric Strike Bridge Rectifier Automatic Opener Door Stop Wiring Harness (frame to PS) Wiring Harness (door) Position Switch	Inactive - Access Control Function x A DFMxxSLF-HD1-M EL-CEPT 555 570 20 21 10XG04 LL LA MK 1500C 2005M3 6011 400 series as req'd QC-C3000P QC-CxxxP length as req'd DPS	inal egress. m. ion. ore opening cycle uto-Door 613E 10BE 10BE US10BE 613E 690 10BE	PE PE SU RO SA HS HS NO RO MK SU	Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ov         3       Hinge, Full Mortise         1       Storeroom Lock         1       Surface Overhead Stop         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep size         Set: HW-9         Doors: 014, 015, 107         Description: Storeroom Function         3       Hinge, Full Mortise         1       Storeroom Lock         1       Door Stop         3       Silencer         Storeroom Lock       1         1       Door Stop         3       Silencer         Set: HW-10       Doors: 109, 110, 115, 124B, 133, 135	verhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609 blicable: zes/locations. Alter hardware set as TA2714 (size per spec) 21 10XG04 LL LA MK 400 series as req'd 608/609	US10BE US10BE 10BE required for direct ref US10BE US10BE 10BE	MK SA RO RO trofit MK SA RO RO
Stor         Read           Lobby         Corrio           Corrio         Set: H           Doors         Desci           1         1           2         1           1         1           1         1           1         1           1         1           1         1           1         1           2         1           1         2           1         2           1         2           1         2           1         2           1         2           1         2	ler and electric strike must be inter y ADA switch active only by inpu dor 150 ADA switch is always ac dinate with electrical and security <u>HW-3</u> s: 101 ription: Aluminum Pair- Active x I Continuous Hinge Continuous Hinge Electric Power Transfer Flush Bolt Dust Proof Strike Storeroom Lock (ALSF) Electric Strike Bridge Rectifier Automatic Opener Door Stop Wiring Harness (frame to PS) Wiring Harness (door) Position Switch Access Control Reader ADA Door Switch	Inactive - Access Control Function x A DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M PT 555 570 20 21 10XG04 LL LA MK 1500C 2005M3 6011 400 series as req'd QC-C3000P QC-CxxxP length as req'd DPS by Security Contractor	inal egress. m. ion. ore opening cycle uto-Door 613E 10BE 10BE US10BE 613E 690 10BE	PE PE SU RO SA HS HS NO RO MK SU OT	Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ov         3       Hinge, Full Mortise         1       Storeroom Lock         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep siz         Set: HW-9         Doors: 014, 015, 107         Description: Storeroom Function         3       Hinge, Full Mortise         1       Storeroom Lock         1       Door Stop         3       Silencer         Storeroom Lock       Door Stop         3       Silencer         Set: HW-10       Doors: 109, 110, 115, 124B, 133, 135         Description: Office Function       Jescription: Office Function	Verhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609 Dilicable: zes/locations. Alter hardware set as TA2714 (size per spec) 21 10XG04 LL LA MK 400 series as req'd 608/609 5, 136 TA2714 (size per spec)	US10BE US10BE 10BE s required for direct ref US10BE US10BE 10BE	MK SA RO RO trofit MK SA RO RO
Stor         Read           Lobby         Corrie           Corrie         Corrie           Corrie         Corrie           Set: H         Doors           Desc         1           1         1           1         1           1         1           1         1           2         1           2         1           2         1           2         1	ler and electric strike must be inter y ADA switch active only by inpu dor 150 ADA switch is always act dinate with electrical and security <u>HW-3</u> s: 101 ription: Aluminum Pair- Active x I Continuous Hinge Continuous Hinge Electric Power Transfer Flush Bolt Dust Proof Strike Storeroom Lock (ALSF) Electric Strike Bridge Rectifier Automatic Opener Door Stop Wiring Harness (frame to PS) Wiring Harness (door) Position Switch Access Control Reader ADA Door Switch Power Supply (consolidate)	Inactive - Access Control Function x A DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M EL-CEPT 555 570 20 21 10XG04 LL LA MK 1500C 2005M3 6011 400 series as req'd QC-C3000P QC-CxxxP length as req'd DPS by Security Contractor 50x series as req'd AQD x amps/options as req'd	inal egress. m. ion. ore opening cycle uto-Door 613E 10BE 10BE US10BE 613E 690 10BE	PE PE SU RO SA HS HS NO RO MK MK SU OT NO SU	Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ov         3       Hinge, Full Mortise         1       Storeroom Lock         1       Surface Overhead Stop         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep size         Set: HW-9         Doors: 014, 015, 107         Description: Storeroom Function         3       Hinge, Full Mortise         1       Storeroom Lock         1       Door Stop         3       Silencer         Storeroom Lock       Door Stop         3       Silencer         Set: HW-10       Doors: 109, 110, 115, 124B, 133, 135         Description: Office Function       Stige, Full Mortise         1       Entry/Office Lock	verhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609 blicable: zes/locations. Alter hardware set as TA2714 (size per spec) 21 10XG04 LL LA MK 400 series as req'd 608/609 5, 136 TA2714 (size per spec) 21 10XG05 LL LA MK	US10BE US10BE 10BE 10BE s required for direct ref US10BE 10BE 10BE	MK SA RO RO trofit MK SA RO RO MK SA
Store         Read           Lobby         Corrie           Corrie         Corrie           Corrie         Corrie           Corrie         Corrie           Doors         Desc           1         1           1         1           1         1           1         1           2         1           1         2           1         1           2         1           1         2           1         1           2         1           1         2           1         1	ler and electric strike must be inter y ADA switch active only by inpu dor 150 ADA switch is always act dinate with electrical and security <u>HW-3</u> s: 101 ription: Aluminum Pair- Active x I Continuous Hinge Continuous Hinge Electric Power Transfer Flush Bolt Dust Proof Strike Storeroom Lock (ALSF) Electric Strike Bridge Rectifier Automatic Opener Door Stop Wiring Harness (frame to PS) Wiring Harness (door) Position Switch Access Control Reader ADA Door Switch Power Supply (consolidate) Wiring Diagram	Inactive - Access Control Function x A DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M EL-CEPT 555 570 20 21 10XG04 LL LA MK 1500C 2005M3 6011 400 series as req'd QC-C3000P QC-CxxxP length as req'd DPS by Security Contractor 50x series as req'd AQD x amps/options as req'd Elev. & Point-to-Point	inal egress. m. ion. ore opening cycle uto-Door 613E 10BE 10BE US10BE 613E 690 10BE	PE PE SU RO SA HS HS NO RO MK SU OT NO SU OT	Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ov         3       Hinge, Full Mortise         1       Storeroom Lock         1       Surface Overhead Stop         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep size         Set: HW-9         Doors: 014, 015, 107         Description: Storeroom Function         3       Hinge, Full Mortise         1       Storeroom Lock         1       Door Stop         3       Silencer         Set: HW-10       Doors: 109, 110, 115, 124B, 133, 135         Description: Office Function       3         3       Hinge, Full Mortise         1       Entry/Office Lock         1       Door Stop         3       Hinge, Full Mortise         1       Entry/Office Lock         1       Door Stop         2       Gilden end	verhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609 blicable: zes/locations. Alter hardware set as TA2714 (size per spec) 21 10XG04 LL LA MK 400 series as req'd 608/609 5, 136 TA2714 (size per spec) 21 10XG05 LL LA MK 400 series as req'd	US10BE US10BE 10BE toBE US10BE US10BE US10BE 10BE US10BE US10BE US10BE US10BE US10BE 10BE	MK SA RO RO trofit MK SA RO RO MK SA RO
Book           Read           Lobby           Corrie           Corrie           Corrie           Descention           1           1           1           1           1           1           1           2           1           1           2           1           2           1           2           1           2           1           2           1           2           1           2           1           2           1           2           1           2           1           1           Notes	ler and electric strike must be inter y ADA switch active only by inpu dor 150 ADA switch is always ac dinate with electrical and security <u>HW-3</u> s: 101 ription: Aluminum Pair- Active x I Continuous Hinge Continuous Hinge Electric Power Transfer Flush Bolt Dust Proof Strike Storeroom Lock (ALSF) Electric Strike Bridge Rectifier Automatic Opener Door Stop Wiring Harness (frame to PS) Wiring Harness (door) Position Switch Access Control Reader ADA Door Switch Power Supply (consolidate) Wiring Diagram Seals, Sweeps & Astragal	Inactive - Access Control Function to sig egrated with auto-door operator syster t at reader/remote signal from Recepti tive and will release electric strike befor y contractors. Inactive - Access Control Function x A DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M EL-CEPT 555 570 20 21 10XG04 LL LA MK 1500C 2005M3 6011 400 series as req'd QC-C3000P QC-CxxxP length as req'd DPS by Security Contractor 50x series as req'd AQD x amps/options as req'd Elev. & Point-to-Point By Aluminum Door Mfr.	inal egress. m. ion. ore opening cycle uto-Door 613E 10BE 10BE US10BE 613E 690 10BE	PE PE SU RO SA HS HS NO RO MK SU OT NO SU OT	Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ov         3       Hinge, Full Mortise         1       Storeroom Lock         1       Surface Overhead Stop         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep siz         Set: HW-9         Doors: 014, 015, 107         Description: Storeroom Function         3       Hinge, Full Mortise         1       Storeroom Lock         1       Door Stop         3       Silencer         Set: HW-10         Doors: 109, 110, 115, 124B, 133, 135         Description: Office Function         3       Hinge, Full Mortise         1       Entry/Office Lock         1       Door Stop         3       Silencer	verhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609 Dilicable: zes/locations. Alter hardware set as TA2714 (size per spec) 21 10XG04 LL LA MK 400 series as req'd 608/609 5, 136 TA2714 (size per spec) 21 10XG05 LL LA MK 400 series as req'd 608/609	US10BE US10BE 10BE s required for direct ret US10BE US10BE 10BE US10BE US10BE US10BE 10BE	MK SA RO RO trofit MK SA RO RO MK SA RO RO
Stori           Read           Lobby           Corrie           Corrie           Corrie           Corrie           Corrie           Set: H           Doors           Desc           1           1           1           1           1           2           1           2           1           2           1           2           1           2           1           2           1           2           1           2           1           2           1           2           1           2           1           1           2           1           1           2           1           1           1           1           1           1           1           1           1 <td< td=""><td>ler and electric strike must be inter y ADA switch active only by inpu dor 150 ADA switch is always act dinate with electrical and security <u>HW-3</u> s: 101 ription: Aluminum Pair- Active x I Continuous Hinge Continuous Hinge Electric Power Transfer Flush Bolt Dust Proof Strike Storeroom Lock (ALSF) Electric Strike Bridge Rectifier Automatic Opener Door Stop Wiring Harness (frame to PS) Wiring Harness (door) Position Switch Access Control Reader ADA Door Switch Power Supply (consolidate) Wiring Diagram Seals, Sweeps &amp; Astragal S:</td><td>Inactive - Access Control Function x A DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M EL-CEPT 555 570 20 21 10XG04 LL LA MK 1500C 2005M3 6011 400 series as req'd QC-C3000P QC-CxxxP length as req'd DPS by Security Contractor 50x series as req'd AQD x amps/options as req'd Elev. &amp; Point-to-Point By Aluminum Door Mfr. se electric strike or manual key. Free e</td><td>inal egress. m. ion. ore opening cycle uto-Door 613E 10BE 10BE US10BE 613E 690 10BE 10BE</td><td>PE PE SU RO SA HS HS NO RO MK MK SU OT NO SU OT</td><td>Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ov         3       Hinge, Full Mortise         1       Storeroom Lock         1       Door Stop         3       Silencer         Notes:       Salvaged Doors &amp; Frames where app         Field verify existing hardware prep siz         Set: HW-9         Doors: 014, 015, 107         Description: Storeroom Function         3       Hinge, Full Mortise         1       Storeroom Lock         1       Door Stop         3       Silencer         Set: HW-10       Doors: 109, 110, 115, 124B, 133, 135         Description: Office Function       3         3       Bilencer         Set: HW-10       Doors: 109, 110, 115, 124B, 133, 135         Description: Office Function       3         3       Hinge, Full Mortise         1       Entry/Office Lock         1       Door Stop         3       Silencer         Notes:       Salvaged Doors &amp; Frames where app</td><td>verhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609 blicable: zes/locations. 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Read Lobby Corrie Coord Set: H Doors Desc 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ler and electric strike must be inter y ADA switch active only by inpu dor 150 ADA switch is always act dinate with electrical and security <u>HW-3</u> s: 101 ription: Aluminum Pair- Active x I Continuous Hinge Continuous Hinge Electric Power Transfer Flush Bolt Dust Proof Strike Storeroom Lock (ALSF) Electric Strike Bridge Rectifier Automatic Opener Door Stop Wiring Harness (frame to PS) Wiring Harness (door) Position Switch Access Control Reader ADA Door Switch Power Supply (consolidate) Wiring Diagram Seals, Sweeps & Astragal s: 'by valid input at reader to release position switches to monitor ope ler and electric strike must be inter ng 102 ADA switch active only b dor 140 ADA switch is always act dinate with electrical and security <u>HW-4</u> s: 007, 103, 114A, <del>116</del> ription: Access Control Function Hinge, Full Mortise	Ining status. Lock has RX option to sig egrated with auto-door operator syster t at reader/remote signal from Recepti tive and will release electric strike befor y contractors. Inactive - Access Control Function x A DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M EL-CEPT 555 570 20 21 10XG04 LL LA MK 1500C 2005M3 6011 400 series as req'd QC-C3000P QC-CxxxP length as req'd DPS by Security Contractor 50x series as req'd AQD x amps/options as req'd Elev. & Point-to-Point By Aluminum Door Mfr. se electric strike or manual key. Free et ning status. Lock has RX option to sig egrated with auto-door operator syster y valid input at reader. tive and will release electric strike befor y contractors.	Inal egress. m. ion. ore opening cycle uto-Door 613E 10BE 10BE 0310BE 613E 690 10BE 10BE 10BE egress at all times inal egress. m. ore opening cycle	PE PE SU RO RO SA HS HS NO RO MK SU OT NO SU OT OT S.	Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ovaling         3       Hinge, Full Mortise         1       Storeroom Lock         1       Surface Overhead Stop         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep size         Set: HW-9         Doors: 014, 015, 107         Description: Storeroom Function         3       Hinge, Full Mortise         1       Storeroom Lock         1       Door Stop         3       Silencer         Set: HW-10       Doors: 109, 110, 115, 124B, 133, 135         Description: Office Function       3         3       Silencer         Set: HW-10       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep size       Set: HW-11         Doors: 118, 119, 162       Description: Privacy Function w/ Indicator         1       Door Closer, Tri-Mount         2       Kick Plate         1       Door Stop	verhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609 blicable: zes/locations. Alter hardware set as TA2714 (size per spec) 21 10XG04 LL LA MK 400 series as req'd 608/609 5, 136 TA2714 (size per spec) 21 10XG05 LL LA MK 400 series as req'd 608/609 blicable: zes/locations. Alter hardware set as cator x Closer TA2314 (size per spec) LB V20 8265 LNL 351 UO K1050 10" high x CSK x BEV 400 series as req'd	US10BE US10BE 10BE s required for direct ref US10BE US10BE 10BE US10BE 10BE US10BE 10BE s required for direct ref US10BE(SS) US10BE(SS) US10BE EB 10BE 10BE	MK SA RO RO trofit MK SA RO RO trofit
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Read Lobby Corrie Coord Set: H Doors Desc 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ler and electric strike must be inter y ADA switch active only by inpu dor 150 ADA switch is always act dinate with electrical and security <u>HW-3</u> s: 101 ription: Aluminum Pair- Active x I Continuous Hinge Continuous Hinge Electric Power Transfer Flush Bolt Dust Proof Strike Storeroom Lock (ALSF) Electric Strike Bridge Rectifier Automatic Opener Door Stop Wiring Harness (frame to PS) Wiring Harness (door) Position Switch Access Control Reader ADA Door Switch Power Supply (consolidate) Wiring Diagram Seals, Sweeps & Astragal S: by valid input at reader to release position switches to monitor ope ler and electric strike must be inter ng 102 ADA switch active only b dor 140 ADA switch is always act dinate with electrical and security <u>HW-4</u> s: 007, 103, 114A, <del>116</del> ription: Access Control Function Hinge, Full Mortise Elec Hinge, Full Mortise Fail Secure Lock Door Closer, Tri-Mount Door Stop Smoke Gasketing Silencer Wiring Harness (frame to PS)	Ining status. Lock has RX option to sig egrated with auto-door operator syster t at reader/remote signal from Recepti tive and will release electric strike befor y contractors. Inactive - Access Control Function x A DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M EL-CEPT 555 570 20 21 10XG04 LL LA MK 1500C 2005M3 6011 400 series as req'd QC-C3000P QC-CxxxP length as req'd DPS by Security Contractor 50x series as req'd AQD x amps/options as req'd Elev. & Point-to-Point By Aluminum Door Mfr. se electric strike or manual key. Free et ning status. Lock has RX option to sig egrated with auto-door operator syster y valid input at reader. tive and will release electric strike befor y contractors. TA2714 NRP (size per spec) TA2714 QC (size per spec) RX 21 10XG71 LL LA MK 351 UO 400 series as req'd S88 608/609 QC-C3000P	Inal egress. m. ion. ore opening cycle uto-Door 613E 10BE 10BE US10BE 613E 690 10BE 10BE US10BE us10BE US10BE US10BE US10BE US10BE US10BE US10BE EB 10BE	PE PE SU RO SA HS NO SA HS NO SU OT S. MK SA RO PE RO MK	Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ov         3       Hinge, Full Mortise         1       Storeroom Lock         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep siz         Set: HW-9         Doors: 014, 015, 107         Description: Storeroom Function         3       Hinge, Full Mortise         1       Storeroom Lock         1       Door Stop         3       Silencer         Set: HW-10       Doors: 109, 110, 115, 124B, 133, 135         Description: Office Function       3         3       Silencer         Set: HW-10       Doors Stop         3       Silencer         Set: HW-10       Doors: 109, 110, 115, 124B, 133, 135         Description: Office Function       3         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep sized       Set: HW-11         Doors: 118, 119, 162       Description: Privacy Function w/ Indicator         1       Door Stop       Silencer         Set: HW-12	<pre>/erhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609 &gt;blicable: zes/locations. Alter hardware set as TA2714 (size per spec) 21 10XG04 LL LA MK 400 series as req'd 608/609 5, 136 TA2714 (size per spec) 21 10XG05 LL LA MK 400 series as req'd 608/609 &gt;blicable: zes/locations. Alter hardware set as cator x Closer TA2314 (size per spec) LB V20 8265 LNL 351 UO K1050 10" high x CSK x BEV 400 series as req'd 608/609 c Egress TA2714 (size per spec) 12 8815 ETL 2 8815 ETL</pre>	US10BE US10BE 10BE 10BE US10BE US10BE US10BE 10BE US10BE 10BE 10BE 10BE US10BE(SS) US10BE(SS) US10BE EB 10BE 10BE 10BE	MK SA RO RO trofit MK SA RO RO trofit MK SA RO RO RO RO KO RO
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Read Lobby Corrie Coord Set: H Doors Desci 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ler and electric strike must be inter y ADA switch active only by inpu dor 150 ADA switch is always act dinate with electrical and security <u>HW-3</u> s: 101 ription: Aluminum Pair- Active x I Continuous Hinge Electric Power Transfer Flush Bolt Dust Proof Strike Storeroom Lock (ALSF) Electric Strike Bridge Rectifier Automatic Opener Door Stop Wiring Harness (frame to PS) Wiring Harness (door) Position Switch Access Control Reader ADA Door Switch Power Supply (consolidate) Wiring Diagram Seals, Sweeps & Astragal S: by valid input at reader to release position switches to monitor ope ler and electric strike must be inter g 102 ADA switch active only b dor 140 ADA switch is always act dinate with electrical and security <u>HW-4</u> s: 007, 103, 114A, <del>116</del> ription: Access Control Function Hinge, Full Mortise Elec Hinge, Full Mortise Fail Secure Lock Door Closer, Tri-Mount Door Stop Smoke Gasketing Silencer Wiring Harness (door) Position Switch Access Control Reader	Ining status. Lock has RX option to sig egrated with auto-door operator syster t at reader/remote signal from Recepti tive and will release electric strike befor y contractors. Inactive - Access Control Function x A DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M EL-CEPT 555 570 20 21 10XG04 LL LA MK 1500C 2005M3 6011 400 series as req'd QC-C3000P QC-CxxXP length as req'd DPS by Security Contractor 50x series as req'd AQD x amps/options as req'd Elev. & Point-to-Point By Aluminum Door Mfr. se electric strike or manual key. Free e ming status. Lock has RX option to sig egrated with auto-door operator syster y valid input at reader. tive and will release electric strike befor y contractors. TA2714 NRP (size per spec) TA2714 QC (size per spec) RX 21 10XG71 LL LA MK 351 UO 400 series as req'd S88 608/609 QC-C3000P QC-CxxXP length as req'd DPS by Security Contractor	Inal egress. m. ion. ore opening cycle uto-Door 613E 10BE 10BE US10BE 613E 690 10BE 10BE US10BE m. ore opening cycle US10BE US10BE US10BE US10BE US10BE US10BE US10BE US10BE US10BE IS10BE US10BE	PE PE SU RO SA HS NO RO SA HS NO RO MK MK SU OT OT S. MK KSA RO PE RO MK MK SA OT OT S.	Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ovall         3       Hinge, Full Mortise         1       Storeroom Lock         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep size         Set: HW-9         Doors: 014, 015, 107         Description: Storeroom Function         3       Hinge, Full Mortise         1       Storeroom Lock         1       Door Stop         3       Silencer         Set: HW-10       Doors: 109, 110, 115, 124B, 133, 135         Description: Office Function       3         3       Bilencer         Set: HW-10       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep size       Set: HW-11         Doors: 118, 119, 162       Description: Privacy Function w/ Indicator         1       Door Closer, Tri-Mount         2       Kick Plate         1       Door Stop         3       Silencer         Set: HW-12       Door Stop         3 </td <td><pre>/erhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609 blicable: zes/locations. Alter hardware set as TA2714 (size per spec) 21 10XG04 LL LA MK 400 series as req'd 608/609 5, 136 TA2714 (size per spec) 21 10XG05 LL LA MK 400 series as req'd 608/609 blicable: zes/locations. Alter hardware set as cator x Closer TA2314 (size per spec) LB V20 8265 LNL 351 UO K1050 10" high x CSK x BEV 400 series as req'd 608/609 c Egress TA2714 (size per spec) 12 8815 ETL 351 UO K1050 10" high x CSK x BEV 400 series as req'd</pre></td> <td>US10BE US10BE 10BE 10BE US10BE US10BE US10BE 10BE US10BE 10BE 10BE s required for direct ref US10BE(SS) US10BE(SS) US10BE EB 10BE 10BE 10BE</td> <td>MK SA RO RO trofit MK SA RO RO trofit MK SA RO RO MK SA RO RO MK SA RO RO RO MK SA RO RO</td>	<pre>/erhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609 blicable: zes/locations. Alter hardware set as TA2714 (size per spec) 21 10XG04 LL LA MK 400 series as req'd 608/609 5, 136 TA2714 (size per spec) 21 10XG05 LL LA MK 400 series as req'd 608/609 blicable: zes/locations. Alter hardware set as cator x Closer TA2314 (size per spec) LB V20 8265 LNL 351 UO K1050 10" high x CSK x BEV 400 series as req'd 608/609 c Egress TA2714 (size per spec) 12 8815 ETL 351 UO K1050 10" high x CSK x BEV 400 series as req'd</pre>	US10BE US10BE 10BE 10BE US10BE US10BE US10BE 10BE US10BE 10BE 10BE s required for direct ref US10BE(SS) US10BE(SS) US10BE EB 10BE 10BE 10BE	MK SA RO RO trofit MK SA RO RO trofit MK SA RO RO MK SA RO RO MK SA RO RO RO MK SA RO RO
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Read Lobby Corrie Coord Set: H Doors Desc 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 1 1 2 1	ler and electric strike must be inter y ADA switch active only by inpu dor 150 ADA switch is always act dinate with electrical and security <u>HW-3</u> s: 101 ription: Aluminum Pair- Active x I Continuous Hinge Electric Power Transfer Flush Bolt Dust Proof Strike Storeroom Lock (ALSF) Electric Strike Bridge Rectifier Automatic Opener Door Stop Wiring Harness (frame to PS) Wiring Harness (door) Position Switch Access Control Reader ADA Door Switch Power Supply (consolidate) Wiring Diagram Seals, Sweeps & Astragal s: by valid input at reader to release position switches to monitor ope ler and electric strike must be inter ng 102 ADA switch is always act dinate with electrical and security <u>HW-4</u> s: 007, 103, 114A, <del>116</del> ription: Access Control Function Hinge, Full Mortise Elec Hinge, Full Mortise Fail Secure Lock Door Closer, Tri-Mount Door Stop Smoke Gasketing Silencer Wiring Harness (door) Position Switch Access Control Reader Power Supply (consolidate) Wiring Diagram	Inactive - Access Control Function to sig egrated with auto-door operator syster t at reader/remote signal from Recepti tive and will release electric strike befor y contractors. Inactive - Access Control Function x A DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M EL-CEPT 555 570 20 21 10XG04 LL LA MK 1500C 2005M3 6011 400 series as req'd QC-C3000P QC-CxxxP length as req'd DPS by Security Contractor 50x series as req'd AQD x amps/options as req'd Elev. & Point-to-Point By Aluminum Door Mfr. se electric strike or manual key. Free et ning status. Lock has RX option to sig egrated with auto-door operator syster y valid input at reader. tive and will release electric strike befor y contractors. TA2714 NRP (size per spec) TA2714 QC (size per spec) RX 21 10XG71 LL LA MK 351 UO 400 series as req'd S88 608/609 QC-C3000P QC-CxxxP length as req'd DPS by Security Contractor AQD x amps/options as req'd Elev. & Point-to-Point	Inal egress. m. ion. ore opening cycle uto-Door 613E 10BE 10BE US10BE 613E 690 10BE 10BE US10BE us10BE US10BE US10BE US10BE US10BE US10BE US10BE US10BE US10BE	PE PE SU RO SA HS NO RO SA HS NO RO SA HS NO RO SA HS NO O T O T SU O T SU O T SU O T SU O T O T SU O T O T SU O T O T SU O T O T SU O T O T O T O T O T O T O T O T O T O	Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ov         3       Hinge, Full Mortise         1       Storeroom Lock         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep size         Set: HW-9         Doors: 014, 015, 107         Description: Storeroom Function         3       Hinge, Full Mortise         1       Door Stop         3       Silencer         Set: HW-10         Doors: 109, 110, 115, 124B, 133, 135         Description: Office Function         3       Hinge, Full Mortise         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep size         Set: HW-11       Doors: 118, 119, 162         Description: Privacy Function w/ Indicator         1       Door Stop         3       Silencer         Set: HW-12       Doors: 001, 006         Description: Passage Function - Pani         3       Hinge, Full Mortise         1       Rim Exit Device, Pas	<pre>/erhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609 &gt;blicable: zes/locations. Alter hardware set as TA2714 (size per spec) 21 10XG04 LL LA MK 400 series as req'd 608/609 5, 136 TA2714 (size per spec) 21 10XG05 LL LA MK 400 series as req'd 608/609 &gt;blicable: zes/locations. Alter hardware set as cator x Closer TA2314 (size per spec) LB V20 8265 LNL 351 UO K1050 10" high x CSK x BEV 400 series as req'd 608/609 c Egress TA2714 (size per spec) 12 8815 ETL 351 UO K1050 10" high x CSK x BEV 400 series as req'd 608/609</pre>	US10BE US10BE 10BE 10BE US10BE US10BE US10BE 10BE US10BE 10BE 10BE 10BE 10BE 10BE 10BE 10BE	MK SA RO RO trofit MK SA RO RO MK SA RO RO RO MK SA RO RO RO RO E
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Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ov         3       Hinge, Full Mortise         1       Storeroom Lock         1       Surface Overhead Stop         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep siz         Set: HW-9       Doors: 014, 015, 107         Description: Storeroom Function         3       Hinge, Full Mortise         1       Storeroom Lock         1       Door Stop         3       Silencer         Set: HW-10       Doors: 109, 110, 115, 124B, 133, 135         Description: Office Function       Hinge, Full Mortise         1       Entry/Office Lock         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep siz         Set: HW-11       Doors: 118, 119, 162         Description: Privacy Function w/ Indicator         1       Door Closer, Tri-Mount         2       Kick Plate         1       Door Stop         3       Silencer <t< td=""><td><pre>/erhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609 &gt;blicable: zes/locations. 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Read Lobby Corrie Coord Set: H Doors Desc 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1	<ul> <li>In the set of the first of the first of the set of the se</li></ul>	Introg status. Lock has RX option to sig egrated with auto-door operator syster t at reader/remote signal from Recepti tive and will release electric strike befor y contractors. Inactive - Access Control Function x A DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M EL-CEPT 555 570 20 21 10XG04 LL LA MK 1500C 2005M3 6011 400 series as req'd QC-C3000P QC-CxxxP length as req'd DPS by Security Contractor 50x series as req'd AQD x amps/options as req'd Elev. & Point-to-Point By Aluminum Door Mfr. se electric strike or manual key. Free electric strike or operator syster y valid input at reader. tive and will release electric strike befor y contractors. TA2714 NRP (size per spec) TA2714 QC (size per spec) TA2714 QC (size per spec) RX 21 10XG71 LL LA MK 351 UO 400 series as req'd S88 608/609 QC-CXxXP length as req'd DPS by Security Contractor AQD x amps/options as req'd Elev. & Point-to-Point	<pre>quired for direct ra utal times. pre opening cycle uto-Door 613E 10BE 10BE 0310BE 613E 690 10BE 00 10BE US10</pre>	PE PE SU RO SA HS HS NO RO MK MK SU OT OT S. MK MK SA RO PE RO MK MK SU OT SU OT SU OT	Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ov         3       Hinge, Full Mortise         1       Storeroom Lock         1       Surface Overhead Stop         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep size         Set: HW-9         Doors: 014, 015, 107         Description: Storeroom Function         3       Hinge, Full Mortise         1       Storeroom Lock         1       Door Stop         3       Silencer         Set: HW-10       Doors: 109, 110, 115, 124B, 133, 135         Description: Office Function       3         3       Hinge, Full Mortise         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep size         Set: HW-11       Doors: 118, 119, 162         Description: Privacy Function w/ Indicator         1       Door Closer, Tri-Mount         2       Kick Plate         1       Door Stop         3       Silencer	<pre>/erhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609 plicable: zes/locations. Alter hardware set as TA2714 (size per spec) 21 10XG04 LL LA MK 400 series as req'd 608/609 plicable: zes/locations. Alter hardware set as cator x Closer TA2314 (size per spec) LB V20 8265 LNL 351 UO K1050 10" high x CSK x BEV 400 series as req'd 608/609 c Egress TA2714 (size per spec) LB V20 8265 LNL 351 UO K1050 10" high x CSK x BEV 400 series as req'd 608/609 c Egress TA2714 (size per spec) 12 8815 ETL 351 UO K1050 10" high x CSK x BEV 400 series as req'd 608/609 c Egress TA2714 (size per spec) 12 8815 ETL 351 UO K1050 10" high x CSK x BEV 400 series as req'd 608/609 c Egress TA2714 (size per spec) 12 8815 ETL 351 UO K1050 10" high x CSK x BEV 400 series as req'd 888 ser x OH Stop TA2714 (size per spec) 10XU15 LL 1548S 254 UO</pre>	US10BE US10BE 10BE s required for direct ref US10BE 10BE US10BE 10BE US10BE 10BE 10BE 10BE 10BE 10BE 10BE 10BE	MK SA SA RO RO trofit MK SA RO RO MK SA RO RO MK SA RO RO RO MK SA RO RO RO RO RO RO RO RO RO RO RO RO RO
Read Lobby Corrie Coord Set: H Doors Desc 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1	<ul> <li>position switches to monitor operation of the second process of the second proces of the second process of the second proces of the second proces</li></ul>	Initig status. Lock has RX option to sig egrated with auto-door operator syster t at reader/remote signal from Recepti tive and will release electric strike befor y contractors. Inactive - Access Control Function x A DFMxxSLF-HD1-M PT DFMxxSLF-HD1-M EL-CEPT 555 570 20 21 10XG04 LL LA MK 1500C 2005M3 6011 400 series as req'd QC-C3000P QC-CxxxP length as req'd DPS by Security Contractor 50x series as req'd AQD x amps/options as req'd Elev. & Point-to-Point By Aluminum Door Mfr. se electric strike or manual key. Free e ning status. Lock has RX option to sig egrated with auto-door operator syster y valid input at reader. tive and will release electric strike befor y contractors. TA2714 NRP (size per spec) TA2714 QC (size per spec) RX 21 10XG71 LL LA MK 351 UO 400 series as req'd S88 608/609 QC-C3000P QC-CxxxP length as req'd DPS by Security Contractor AQD x amps/options as req'd Elev. & Point-to-Point Micable: tes/locations. Alter hardware set as ref se lever or key override. Free egress a ng status. Exit device has RX option to y contractors.	<pre>quired for direct re usion. ore opening cycle uto-Door 613E 10BE 10BE 0S10BE 613E 690 10BE US10BE US10BE US10BE US10BE US10BE US10BE US10BE US10BE US10BE osignal egress.</pre>	PE PE SU RO SA HS HS NO RO MK MK SU OT OT S. MK KK SA RO PE RO MK KSU OT SU OT SU OT SU OT	Set: HW-8         Doors: 011, 112         Description: Storeroom Function x Ov         3       Hinge, Full Mortise         1       Storeroom Lock         1       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep size         Set: HW-9         Doors: 014, 015, 107         Description: Storeroom Function         3       Hinge, Full Mortise         1       Door Stop         3       Silencer         Set: HW-10       Door Stop         3       Silencer         Set: HW-10       Door Stop         3       Silencer         Set: HW-10       Door Stop         3       Silencer         Notes:       Salvaged Doors & Frames where app         Field verify existing hardware prep size       Salvaged Doors & Frames where app         Field verify existing hardware prep size       Salvaged Doors: 118, 119, 162         Description: Privacy Function w/ Indicator       Door Closer, Tri-Mount         1       Door Closer, Tri-Mount         2       Kick Plate         1       Door Stop         3       Silencer	<pre>/erhead Stop TA2714 (size per spec) 21 10XG04 LL LA MK 1548S 400 series as req'd 608/609 blicable: zes/locations. Alter hardware set as TA2714 (size per spec) 21 10XG04 LL LA MK 400 series as req'd 608/609 blicable: zes/locations. Alter hardware set as cator x Closer TA2314 (size per spec) LB V20 8265 LNL 351 UO K1050 10" high x CSK x BEV 400 series as req'd 608/609 c Egress TA2714 (size per spec) 12 8815 ETL 351 UO K1050 10" high x CSK x BEV 400 series as req'd 608/609 c Egress TA2714 (size per spec) 12 8815 ETL 351 UO K1050 10" high x CSK x BEV 400 series as req'd 608/609 c Egress TA2714 (size per spec) 12 8815 ETL 351 UO K1050 10" high x CSK x BEV 400 series as req'd 888 ser x OH Stop TA2714 (size per spec) 10XU15 LL 1548S 351 UO 608/609</pre>	US10BE US10BE 10BE 10BE US10BE US10BE 10BE US10BE 10BE 10BE US10BE US10BE US10BE US10BE US10BE US10BE EB 10BE 10BE 10BE 10BE 10BE 10BE 10	MK SA SA RO RO trofit MK SA RO RO trofit MK SA RO RO MK SA RO RO RO MK SA RO RO RO MK SA RO RO RO RO

Set:	<u>HW-14</u> s: 1084 - 108B			
Desc	s. 100A, 100B ription: Passage Function x Sou	nd Seals		
3	Hinge, Full Mortise	TA2714 (size per spec)	US10BE	Ν
1 1	Passage Latch	10XU15 LL	US10BE	5
1	Acoustic Seal Set	PEMKOSTCSET-3A	BL	F
Set.	HW_15			
Door	rs: 004, 009			
Desc	ription: Passage Function			
3 1	Hinge, Full Mortise	TA2714 (size per spec)	US10BE	N
1	Door Stop	400 series as req'd	10BE	F
3	Silencer	608/609		F
Note Salv:	s: aged Doors & Frames where apr	licable <sup>.</sup>		
Field	verify existing hardware prep siz	zes/locations. Alter hardware set as	required for direct re	trofit
Set <sup>.</sup>	HW-16			
Door	s: 012, 013, 159, 161			
Desc	ription: Push / Pull Function x Cl	oser		
3 1	Hinge, Full Mortise	TA2314 (size per spec) BE 126x70C	US10BE(SS) 10BE	IN F
1	Push Plate	70E	10BE	F
1	Door Closer, Tri-Mount	351 UO	EB	S
2 1	Kick Plate	K1050 10" high x CSK x BEV	10BE	F
3	Silencer	608/609	IVDL	F
Note	s:			
Salva Field	aged Doors & Frames where app verify existing hardware prep size	blicable: xes/locations_Alter hardware set as	required for direct re	trofit
	verify existing hardware prep siz	eshocations. Alter hardware set as	required for direct re	uoni
Set:	HW-17			
Door	s: 123 vrintion: Existing Door - Single - A	Access Control LIngrade		
1 1	Electric Strike	1500C	613E	F
1	Electric Strike	9500	613E	F
1 1	Bridge Rectifier	2005M3		H
1	Access Control Reader	by Security Contractor		0
1	Power Supply (consolidate)	AQD x amps/options as req'd		S
1 Nata	Wiring Diagram	Elev. & Point-to-Point		C
Hard	s. ware set listed for reference only	. Alter as required for access contro	ol upgrade.	
Field	verify existing locking hardware	and provide appropriate electric str	ike or other method o	of
elect	ronic locking.	u contractoro		
000		y contractors.		
Set:	<u>HW-18</u>			
Door	s: 105 vintion: Evicting Deere Deir Ad	and Control Ungrado		
Desc 1	Wiring Harness (frame to PS)	QC-C3000P		Ν
1	Access Control Reader	by Security Contractor		C
1	Power Supply (consolidate)	AQD x amps/options as req'd		5
1 Note	Wiring Diagram	Elev. & Point-to-Point		C
Hard	ware set listed for reference only	. Alter as required for access contro	ol upgrade.	
Field	verify existing locking hardware	and provide appropriate method of	electronic locking.	
Coor	dinate with electrical and security	y contractors.		
Set:	<u>HW-19</u>			
Door	s: 003			
Desc ว	ription: Existing Doors - New Pu	sh / Pull Hardware TA2714 (size per spec)	LIS10BE	Ν
1	Pull Plate	BF 126x70C	10BE	F
1	Push Plate	70C	10BE	F
1 Noto	Door Hardware	Existing to Remain		C
Salva	s. aged Doors & Frames where app	licable:		
Exist	ing mag-lock access control to b	e re-used.		_
Field	verify existing hardware prep siz	zes/locations. Alter hardware set as	required for direct re	etrofit
Set:	HW-20			
Door	s: 113, 120, 121, 122, 124A			
Desc 1	Poor Hardware	Existing to Pomain		6
I				Ċ
OTE	<u>=S:</u>			
•	REFER TO ACCESSIBILITY S	TANDARDS FOR REQUIRED MAN	IUEVERING CLEAR/ ≏T	ANCI
2.	COORDINATE DOOR/FRAME	TYPES, STYLE, FINISH WITH BU	ILDING STANDARD	/
	ARCHITECT / OWNER. INTEN	T TO MATCH EXISTING CONDITI	ONS, FINISHES, ET	C. AS
R				RD
,.  .	ALL HARDWARE TO COMPLY	WITH THE LATEST REQUIREME	ENTS OF THE OHIO	BUIL
	CODE, ADA, NFPA, NEC AND	OTHER APPLICABLE REGULATO	DRY AGENCIES. TH	E
	HARDWARE SUPPLIER SHAL	L COORDINATE STYLE, FINISH, A	AND OPERATION	
5.	THE HARDWARE SUPPLIER	SHALL COORDINATE THE KEVING	G REQUIREMENTS	WITI
•	OWNER.			
S.	PREP AND PAINT ALL NEW A	ND EXISTING HOLLOW METAL D	OOR FRAMES	
ง.1. 6 2	AREA 'A' TO BE PAINTED AREA 'B' TO BE PAINTED	) PNT-4		
63		PNT-9 IBLACKI		

6.4. AREA 'D' TO BE PAINTED PNT-4 COORD. ROUTING OF ALL DOOR ACCESS CONTROL WIRING WHERE LOCATED IN EXISTING DOORS/OPENINGS. MINIMIZE EXPOSED WIRING TO THE EXTENT POSSIBLE. PROVIDE WIREMOLD / PANDUIT WHERE REQ'D. COLOR MATCH TO FRAME / ADJACENT CONDITIONS.



Project Number			
2023-215			
Date			
Augu	st 30, 2024		
Date	lssue		
07.03.24	90% CD		
08.07.24	Final Review		
08.30.24	Bid/Construction Set		
Sheet Tit	le		
Sche	Schedules		



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JONATHAN

ROBERT

SCHAAF 14502

Jonathan Robert Schaaf #14503



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**J** SIGNAGE LEGEND



UNISEX RESTROOM - TYPE 1











EXIT SIGN - TYPE 4









0 6 12











JONATHAN ROBERT SCHAAF 14503 Jonathan Robert Schaaf #14503 Expiration Date 12/31/2025 This drawing is the architect's instrument of service for use solely with respect to this project. RDA Group Architects is the author of this document and shall retain all copyrights and other reserved rights, unless otherwise agreed upon in writing.





# A ARCHITECTURAL SITE PLAN SCALE: 1" = 20'-0"



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C1.1.

### SPECIAL INSPECTION NOTES

1 - The OWNER shall employ one or more special inspectors to provide inspections during construction on the types of wor 2 - Only the required STRUCTURAL Special Inspections have been listed on this sheet .

4 - Upon request, Shell + Meyer can provide a list of local agencies providing these inspection services.

5 - Numbered and lowercase sublettered inspections indicate referenced OBC requirements

6 - Some numbered or lettered special inspection items may not be listed. These items are not required on this project. 7 - Additional information regarding inspections and tests may be found in the project specifications, on the drawings, and in the building code and referenced standards. 8 - The Special Inspections table and other contract documents indicate the special inspections anticipated at the time the documents were approved by the Building Official. 9 - Special inspection and site observation personnel are not responsible for job site safety or means and methods of construction unless noted specifically in the contract.

REQUIRED STRUCTURAL SPECIAL INSPECTIONS					
Soils - OBC Table 1705.6	Continuous	Periodic	Referenced Standard	Additional OBC Requirements	Remarks
A. Geotechnical Investigations				1803	Geotechnical Investigation shall include items of Special Inspection and Testing as noted in OBC Section 1803
1. Verify materials below shallow foundations are adequate to achieve the					
design bearing capacity.	_	Х			Confirm bearing conforms to geotechnical assumptions
2. Verify excavations are extended to proper depth and have reached					
proper material.	_	Х			
<ol><li>Perform classification and testing of fill materials.</li></ol>	—	Х		1803.5.1	
<ol> <li>Verify use of proper materials, densities and lift thicknesses during placement of lean fill.</li> </ol>	x	_			
5. Prior to placement of lean fill, observe subgrade and verify that site has					
been prepared properly.	_	x			
	20			Additional IPC	
Concrete Construction, Cast-In-Place - OBC Table 1705 3	Continuous	Pariodic	Referenced Standard	Additional IBC	Pomarks
Concrete Construction, Cast-in-Flace - OBC Table 1703.5	Continuous	Feriouic	Referenced Standard	Requirements	SPECIAL INSPECTIONS APPLY TO VERIFICATION OF
					DETAILED FABRICATION AND QUALITY CONTROL
					PROCEDURES INCLUDING REVIEW FOR COMPLETENESS
A Eabricator Inspections	_	x		1704 2 5	AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS
				in o naio	Confirm size and spacing of bars. Tolerances and reinforcing
1. Inspect reinforcement and verify placements.	_	х	ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3.	1908.4	placement per ACI 7.5; spacing limits for reinforcing ACI 7.6
3. Inspect anchors cast in concrete.	_	Х	ACI 318: 17.8.2	_	
4. Inspect anchors post-installed in hardened concrete members.	×		ACI 219: 17 9 2 4	_	All bolts visually inspected. Post-installed anchors shall be qualified for use in cracked concrete and shall have passed the Simulated Seismic Tests in accordance with ACI 355.2. Special inspections apply to anchor product name, type, and dimensions, hole dimensions, compliance with drill bit
a. Adhesive anchors installed honzontally or upwardly inclined orientations	^	_	ACI 310: 17.0.2.4		expiration data, anchor/adhaciva installation, anchor ambadment
b Mechanical anchors and adhesive anchors not defined in 4 a		×	ACI 318: 17.8.2		and tightening torque
	<u> </u>		AGI 516. 17.6.2	1904 1 1904 2	
5. Verify use of required design mix	_	х	ACI 318:Ch.19, 26.4.3, 26.4.4	1908.2, 1908.3	Tests and submittals per specifications
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of concrete.	x	_	ASTM C172, ASTM C31, ACI 318: 26 4, 26 12	1908.1	Tests per specifications
				100011	Confirm products conform to approved shop drawings: confirm
8. Verify maintenance of specified curing temperature and techniques.		х	ACI 318: 26.5.3-26.5.5	1908.9	curing performed per specifications
Structural Steel					

STRUCTURAL STEEL INSPECTIONS SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360-10 (CHAPTER N) IF STRUCTURAL STEEL SPECIFICATIONS ARE INCLUDED IN THE CONSTRUCTION DOCUMENTS REFER TO SECTION 051200 "STRUCTURAL STEEL FRAMING"

	~				
				Additional OBC	
Cold Formed (Light Gage) Steel Framing	Continuous	Periodic	Referenced Standard	Requirements	Remarks
A. Fabrication of shop fabricated cold formed structural steel elements.				1704.2.5	Refer to inspection of fabricator requirements
			Approved truss submittal package AND Cold Formed Steel		VERIFY THAT THE TEMPORARY INSTALLATION RESTRAINT/BRACES
			Building Component Safety Information (CESBCSI) - Guide to		AND THE PERMANENT INDIVIDUAL TRUSS MEMBER
			Good Practice for Handling Installing Postraining & Bracing of		RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE
B. Cold formed steel trusses spanning 60 feet or greater		×	Cold-Formed Steel Trussee	1705.2.4	APPROVED TRUSS SUBMITTAL PACKAGE AND 'CFSBCSI'
C. Material verification of weld filler metals		- Ŷ	AWS D1 3 Section 7	1705.2.4	Confirm manufacturar's cartified test reports
D. Verify use of proper welding procedure specifications			AWS D1.3, Section 7	1705 1 1	Obtain copy of welding procedure specifications
E. Verify welder qualifications		$-\hat{\mathbf{v}}$		1705.1.1	Obtain copy of weighing procedure specifications
E. Welded froming connections		$-\hat{\mathbf{v}}$	ANNE D1 2 Continue 7		All wolds visually inspected per AMC D1.2.7.1
F. Weided framing connections			AWS D1.3, Section 7		All welds visually inspected per AWS D1.3.7.1
					Confirm proper method and quantity for weided connections.
					Confirm weids match construction documents. Verify anchors,
		×			tasteners, and structural members conform to construction
G. Fastening of shear wall elements (areas of strapping).		X			documents.
					Visual inspection during construction to confirm fasteners/welds per
H Roof sheathing and truss to wall connections		x			construction documents
					Visual inspection during construction to confirm fasteners/welds per
I light gage structural steel stud framing including joists/rafters		x			construction documents
o. Light gage structural steel stud manning, molduring joists/raiters.					

ork	itemized	below.	

3 - The special inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the building official, for inspection of the particular type of construction or operation requiring special inspection.



WIND LOAD

# GENERAL (ALL TRADES)

- WORK.
- POST INSTALLED ANCHORS INSTRUCTIONS (MPII). EMBEDMENT 0'-6 3/4".
- MINIMUM EMBEDMENT 0'-4 3/4". EMBEDMENT 0'-6 1/4".
- SLEEVES PER ANCHOR.
- OBC TABLE 1806.2
- A. 3,000 P.S.I. FOR FOOTINGS
- E. SLUMP SHALL BE 4" ± 1" F. 1500 P.S.I. FOR LEAN CONCRETE
- SCHEDULES AND DETAILS FOR MINMIMUM FOOTING THICKNESSES.



### DESIGN CRITERIA NOTES



SEISMIC DESIGN CATEGORY, SDC = B BASIC SEISMIC FORCE-RESISTING SYSTEM (RESPONSE MODIFICATION FACTOR) = [REFERENCE: ASCE 7-10 TABLE 12.2-1] H STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE (R=3.0) SEISMIC RESPONSE COEFFICIENT, CS = 0.063

ROOF LIVE LOAD: 20 PSF (MINIMUM PER OBC SECTION 1607.12.2.1)

### GENERAL STRUCTURAL NOTES

1. IN ACCORDANCE WITH SECTION 1704 OF THE OHIO BUILDING CODE, SPECIAL INSPECTIONS WILL BE REQUIRED FOR THIS PROJECT. SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE "SPECIAL INSPECTION REQUIREMENTS" SCHEDULE. ALL FABRICATORS SHALL SATISFY THE "FABRICATOR APPROVAL" PROVISIONS IN SECTION 1704.2.5.1 WHICH REQUIRES THE FABRICATOR TO MAINTAIN AN AGREEMENT WITH A BOARD RECOGNIZED INDUSTRY TRADE ASSOCIATION CERTIFICATION PROGRAM OR A BOARD RECOGNIZED FABRICATOR INSPECTION AGENCY PER 4101:7-6-01 OF OHIO ADMINISTRATIVE CODE.. 2. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND REPORT ANY CONDITIONS SUBSTANTIALLY DIFFERENT THAN THOSE SHOWN TO THE ENGINEER.

3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS AND SPECIFICATIONS OF ALL OTHER DISCIPLINES. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL 4. THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL

PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING,

TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. 5. SHELL + MEYER ASSOCIATES, INC. SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES, AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK.

1. INSTALL ALL ANCHORS PER THE MANUFACTURER'S PUBLISHED INSTALLATION 2. WHERE NOT INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES AS PROVIDED BY HILTI, INC. 3. <u>CONCRETE SUBSTRATE</u> - U.N.O. USE 3/4" DIAM. HILTI 'HAS' THREADED RODS OR HIT-Z

ANCHOR RODS WITH HIT-HY 200 SAFE SET SYSTEM, ICC ESR-3187. MINIMUM 4. <u>REINFORCING INTO CONCRETE</u> - U.N.O. USE HILTI HIT-RE 500 V3 EPOXY, ICC ESR-3814. MINIMUM EMBEDMENT INTO CONCRETE 44 X BAR DIAMETER U.N.O. 5. GROUTED CONCRETE MASONRY (INSTALLED IN WALL FACE) MIN. 8" GROUT AROUND ALL

ANCHORS - U.N.O. USE 3/4" DIAM. HILTI KWIK BOLT 3 ANCHORS, ICC-ES ESR-1385. 6. GROUTED CONCRETE MASONRY (INSTALLED VERTICALLY IN TOP COURSE OF WALL) -U.N.O. USE 3/4" DIAM. HILTI KWIK HUS EZ SCREW ANCHORS, ICC-ES ESR-3056. MINIMUM

7. UNGROUTED CONCRETE MASONRY - USE THE HILTI HIT HY-70 ADHESIVE SYSTEM ICC-ES ESR-2682. U.N.O. STEEL ANCHORS SHALL BE 1/2" DIAM. HILTI 'HAS-E' CONTINUOUSLY THREADED ROD X 0'-4" MINIMUM EMBEDMENT. USE TWO APPROPRIATELY SIZED MESH

### **DIVISION 3 - FOUNDATIONS AND CONCRETE**

1. ALLOWABLE NET SOIL BEARING CAPACITY = 1500 PSF PRESUMPTIVE BEARING CAPACITY PER 2. ALL EXCAVATIONS SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. OVEREXCAVATE AND BACKFILL WITH LEAN CONCRETE AS DIRECTED BY GEOTECHNICAL ENGINEER.

3. CONCRETE WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE LATEST "AMERICAN CONCRETE INSTITUTE" INCLUDING THE REQUIREMENTS OF ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE BUILDINGS". CONCRETE MIXES SHALL BE DESIGNED PER ACI 301, USING PORTLAND CEMENT CONFORMING TO ASTM C150 OR C595, AGGREGATE CONFORMING TO ASTM C33, AND ADMIXTURES CONFORMING TO ASTM C494, C1017, C618, C989 AND C260. CONCRETE SHALL BE READY-MIXED IN ACCORDANCE WITH ASTM C94.

4. HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306. 5. CONCRETE SHALL ATTAIN THE FOLLOWING ULTIMATE 28 DAY COMPRESSIVE STRENGTHS:

C. 4,000 P.S.I. FOR INT. SLABS ON GRADE, WALLS D. 4,500 P.S.I. FOR EXT. SLABS ON GRADE

6. ALL CONCRETE TO BE PERMANENTLY EXPOSED TO WEATHER SHALL BE AIR ENTRAINED (4.5 TO 7.5%) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C260. MAXIMUM W/C RATIO = 0.45 7. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 OR ASTM A996, GRADE 60. 8. TOP OF FOOTING ELEVATIONS SHALL BE AS SHOWN ON THE FOUNDATION PLAN. THESE ELEVATIONS ARE A MAXIMUM AND SHALL BE LOWERED AS REQUIRED TO OBTAIN THE REQUIRED DESIGN BEARING PRESSURE PER THE GEOTECHNICAL ENGINEER'S SPECIFICATION. REFER TO

### **DIVISION 5 - METALS** STRUCTURAL STEEL NOTES 1. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST

- AISC RECOMMENDATIONS AND CONFORM TO ANSIA/AISC 360-10 AND AISC 303-10 INCLUDED IN THE 14th EDITION OF THE "STEEL CONSTRUCTION MANUAL". 2. STEEL FABRICATORS SHALL BE AN AISC CERTIFIED SHOP AND SHALL SATISFY GENERAL
- (ALL TRADES) NOTE 1. OTHERWISE SHOP SPECIAL INSPECTIONS WILL BE REQUIRED. 3. UNLESS NOTED OTHERWISE, ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING ASTM SPECIFICATIONS. WIDE FLANGE SECTIONS, AND TEES ASTM A992 (50 KSI)
- STRUCTURAL HSS TUBINGA500 Gr. C (50 KSI) STEEL PIPE A500 Gr. C (46 KAI) OTHER ROLLED PL.ATES/SHAPES A36 (36 KSI)
- 4. UNLESS NOTED OTHERWISE BASE PLATE ANCHOR RODS SHALL BE ASTM F1554 (36 KSI); USE NONSHRINK GROUT C1107 (8000 PSI). STRUCTURAL STEEL CONNECTIONS SHALL CONSIST OF 3/4"Ø HIGH STRENGTH ASTM F-1852
- BOLTS AND/OR WELDS WITH E70-XX ELECTRODES. USE SHEAR TYPE CONNECTIONS SELECTED BY FABRICATOR FOR UNFACTORED SHEAR FORCES INDICATED ON PLAN IN ACCORDANCE WITH THEAISC SPECIFICATION ALLOWABLE STRESS DESIGN,
- U.N.O. USE  $\frac{5}{16}$ " THICK DOUBLE ANGLE CONNECTIONS, (AS DETAILED IN THE AISC "MANUAL OF STEEL CONSTRUCTION"), U.N.O. ON STRUCTURAL DRAWINGS UNLESS NOTED OTHERWISE, PROVIDE CONTINUOUS <sup>1</sup>/<sub>4</sub> FILLET WELDS PER AISC REQUIREMENTS. TYPICAL LINTELS FOR MASONRY OPENING SHALL BE AS FOLLOWS, U.N.O. ON PLANS.
- L3 1/2x3 1/2x5/16" ANGLES, EACH 4" WALL WIDTH, 4'-0" OPENINGS OR LESS (8" MINIMUM END BEARING, TYP. EACH END) L5x3 1/2x 5/16" ANGLES, L.L.V., EACH 4" WALL WIDTH, 4'-1" TO 6'-8" OPENINGS (8" MINIMUM END BEARING, TYP. EACH END) W8x18 WITH 5/16" PLATE CONTINUOUS (EXTEND PLATE TO END OF BEAM), 6'-9" TO 12'-0"
- CMU OPENINGS. 12" MIN. BR'G. E.E. 8. UNLESS NOTED OTHERWISE, ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER, INCLUDING ALL BRICK SHELF ANGLES, SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH
- ASTM A153. 9. COORDINATE ALL ROOF AND FLOOR OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL AND
- MECHANICAL DRAWINGS, FRAME OPENINGS WITH L3x3x1/4" ANGLES TYPICAL U.N.O. CONTRACTOR TO VERIFY UNIT SIZES WEIGHTS AND LOCATIONS BEFORE ERECTION. 10. PRIME PAINT ALL STEEL.

### STEEL DECK

- 1. STEEL ROOF DECK SHALL BE 1-<sup>1</sup>/<sub>2</sub>"- 20GA. WR TYPE B GALVANIZED G90 PER ASTM A653, U.N.O.
- 2. FLOOR DECK SHALL BE 2"- 20 GA. FORM DECK GALVANIZED G90 PER ASTM A653, U.N.O. 3. WELD DECK TO SUPPORTS WITH MINIMUM  $\frac{5}{8}$  INCH PUDDLE WELDS AT 12"o.c. ( $\frac{36}{4}$ ) AND PROVIDE No. 10 TEK SCREWS SIDELAP FASTENERS AT 36"o.c., UNLESS SUPERCEDED BY SPECIFICATIONS OR A TYPICAL DECK ATTACHMENT DETAIL.

**DIVISION 5 - METALS** LD FORMED STEEL FRAMING(CF

- DESIGN, FABRICATION, AND ERECTION OF ALL COLD FORMED STEEL FRAMING MEMBERS SHALL CONFORM TO THE "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" (AISI S100-12). 2. ALL CFS MEMBERS SHALL BE FORMED FROM STEEL CONFORMING TO ASTM A1003 WITH A
- MINIMUM YIELD STRENGTH AS FOLLOWS: 54 mils (16 GA.) AND HEAVIER MEMBERS Fy= 50 KSI (GRADE ST50H); 43 mils (18 GA.) AND LIGHTER MEMBERS Fy= 33 KSI (GRADE ST33H) 3. ALL FRAMING MEMBERS SHALL BE GALVANIZED WITH A COATING MEETING THE REQUIREMENTS
- OF ASTM A653. USE G90 OR EQUIVALENT FOR STUDS WITH A BRICK VENEER, G60 FOR ALL OTHER FRAMING MEMBERS AND ACCESSORIES. 4. CFS LINTELS SHALL BE UNPNCHED. PROVIDE BRIDGING FOR STUDS AT A MAXIMUM SPACING NOT TO EXCEED 4'-0" AND PER MFR.
- REQUIRMENTS FOR JOISTS AND RAFTERS. ALL BRIDGING SHALL BE INSTALLED PRIOR TO THE ADDITION OF ANY LOADING. CONNECT BRIDGING TO EACH MEMBER BY WELDING, CLIP ANGLES OR OTHER APPROVED METHOD PER THE MANUFACTURER'S REQUIREMENTS.

### DELEGATED DESIGN ITEMS

- A. ENGAGE A QUALIFIED PROFESSIONAL ENGINEER LEGALLY LICENSED IN THE STATE OF OHIO TO DESIGN AND DETAIL THE ELEMENTS NOTED BELOW.
- DELEGATED DESIGN ENGINEER SHALL DESIGN MEMBERS, CONNECTION DETAILS AND Β. DETERMINE FASTENER TYPES AND SIZES.
- C. CONNECTIONS ARE NOT TO IMPOSE ECCENTRIC LOADING, NOR INDUCE TWISTING OR WARPING TO SUPPORTING STRUCTURE.
- D. DESIGN CONNECTIONS TO ACCOMMODATE POTENTIAL AND ACTUAL MISALIGNMENT OF ADJACENT WORK WITHIN TOLERANCES SPECIFIED IN OTHER
- SECTIONS. SUBMIT ENGINEERING CALCULATIONS DEMONSTRATING COMPLIANCE WITH THE Ε. REQUIREMENTS OF THE CONTRACT DOCUMENTS AND OF THE AUTHORITIES HAVING
- JURISDICTION. F. PROVIDE LEGIBLE CALCULATIONS THAT INCORPORATE SUFFICIENT CROSS REFERENCES TO SHOP DRAWINGS TO MAKE CALCULATIONS READILY
- UNDERSTANDABLE AND REVIEWABLE. G. STRUCTURAL CALCULATIONS SHALL INCLUDE THE FOLLOWING: ANALYSIS OF FRAMING MEMBERS, ANALYSIS OF ANCHORS INCLUDING ANCHORS EMBEDDED IN CONCRETE OR MASONRY WITH ALL APPLICABLE LOAD REDUCTIONS CONSIDERED, AND SIGNATURE AND SEAL OF THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION AND LICENSED IN THE STATE OF OHIO.
- H. TEST REPORTS ARE NOT ACCEPTABLE AS A SUBSTITUTE FOR CALCULATIONS. STRUCTURAL COMPONENTS, ASSEMBLIES, AND SYSTEMS DELEGATED TO THE CONTRACTOR INCLUDE THE FOLLOWING:
- COLD-FORMED STEEL FRAMING METAL FABRICATIONS
- STOREFRONT CONNECTIONS TO THE PRIMARY STRUCTURAL SYSTEM 4. CURTAIN WALL SYSTEM CONNECTIONS TO THE PRIMARY STRUCTURAL SYSTEM





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08.30.24 Bid/Construction Set \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ Sheet Title FOUNDATION PLAN & DETAILS Sheet Number

Project Number

2023-215

August 30, 2024

Date Issue 08.07.24 Final Review

Date











Sheet Number

Sheet Title	
INTERMEDIATE FRAMIN	(
PLAN & DETAIL	

Project N 2023-	Number 215
Date	
Augu	ıst 30, 2024
Date	lssue
08.07.24	Final Review
08.30.24	Bid/Construction Set
Sheet Tit	le
INTERM	EDIATE FRAMING



















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S2.1

\_\_\_\_\_HSS3x3x ¼"

PLATE <sup>3</sup>/<sub>8</sub>"x 6 x 9 w/ (4) <sup>3</sup>/<sub>4</sub>" BOLTS



![](_page_10_Picture_1.jpeg)

![](_page_10_Picture_2.jpeg)

![](_page_10_Picture_4.jpeg)

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![](_page_10_Picture_6.jpeg)

![](_page_10_Figure_7.jpeg)

![](_page_10_Figure_8.jpeg)

### **DEMOLITION GENERAL NOTES**

- 1. PROVIDE ALL DEMOLITION AND ABATEMENT REQUIRED BY WORK. 2. REMOVE ALL MATERIALS AND FINISHES REQUIRED TO PERFORM SCHEDULED WORK INCLUDING ANY ANCILLARY ITEMS. COORDINATE WITH PME DRAWINGS. 3. SALVAGE ALL ITEMS AS DIRECTED BY OWNER OR AS NOTED IN THE DRAWINGS.
- COORDINATE ALL REQUIREMENTS FOR REINSTALLATION OF SALVAGED ITEMS. PROVIDE REPLACEMENT PARTS/COMPONENTS TO ALLOW COMPLETE INSTALLATION.
- 4. PROTECT ALL FINISHES AND MATERIALS SCHEDULED TO REMAIN FROM DAMAGE DURING CONSTRUCTION. REPAIR ANY DAMAGED FINISHES TO LIKE NEW CONDITION.
- 5. PROVIDE ALL NECESSARY TEMPORARY BRACING AND SHORING DURING DEMOLITION AND CONSTRUCTION WORK.
- 6. REMOVE ALL MISCELLANEOUS ITEMS, CONDUITS, WIRES, ETC. FROM SURFACES
- AND WALL CAVITIES AS REQUIRED TO PERFORM WORK. COORD. WITH PME DRAWINGS 7. PROVIDE ALL REQ'D CUT AND PATCH OF EX. FINISHES AS REQ'D BY PME SCOPE WORK / DRAWINGS. CORDINATE ALL REQUIREMENTS, LOCATIONS,
- ROUTING, ETC. 8. RESTORE/REPAIR ALL EX. FINISHES TO LIKE NEW CONDITION AS A RESULT OF DEMOLITION AND REMOVALS
- 9. PROVIDE ALL PREP WORK FOR NEW FINISHES AND PROPOSED WORK.
- 10. COORDINATE WITH P/M/E DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS. PROPERLY TERMINATE/ CAP EXISTING UTILITIES BACK TO NEAREST BRANCH AS APPLICABLE.
- 11. MODIFY EX. FIRE SUPPRESSION SYSTEM AS REQUIRED BY WORK. DELEGATED DESIGN BY OTHERS - REFER TO FIRE PROTECTION SHEETS.
- 12. FOLLOW ALL APPLICABLE EPA REQUIREMENTS RELATED TO LEAD BASED PAINT FOR RENOVATION, REPAIR, AND PAINTING. MAINTAIN ALL REQUIRED CERTIFICATIONS
- 13. AFTER REMOVAL OF EX. FLOOR FINISHES, INSPECT & PREP EX. CONC. SLAB AS REQ'D TO PERMIT INSTALL OF NEW FLOOR SYSTEM. VERIFY ALL TRANSITIONS / CONDITIONS BETWEEN FLOORING SYSTEMS. FEATHER / LEVEL UP AS REQ'D FOR A SMOOTH, ACCESSIBLE TRANSITION.
- 14. REMOVE ALL EXISTING INTERIOR SIGNAGE AND WALL MOUNTED ITEMS THAT ARE NOT APPLICABLE TO THE PROPOSED WORK. 15. OWNER WILL REMOVE / RELOCATE ALL LOOSE FURNITURE, EQUIPMENT, DESKS,
- CHAIRS, FILE CABINETS, ETC. PRIOR TO THE START OF WORK. CONTRACTOR SHALL COORDINATE AS REQ'D.
- 16. OWNER WILL REMOVE / RELOCATE ALL EXISTING IT EQUIPMENT PRIOR TO THE START OF WORK. CONTRACTOR SHALL COORDINATE AS REQ'D.

\*\* UNLESS OTHERWISE NOTED

- EXISTING FLOOR FINISH = CARPET WITH RUBBER BASE - EXISTING WALL FINISH = PAINTED GYP. BOARD - EXISTING CEILING FINISH = 2x2 ATC

![](_page_11_Figure_18.jpeg)

CONTRACTOR SHALL X-RAY SLAB PRIOR TO ANY SAWCUTTING OF EXISTING SLAB. ANY DAMAGE TO EXISTING UNDERSLAB UTILITIES DURING SAWCUTTING SHALL BE REPAIRED/REPLACED AT CONTRACTORS EXPENSE.

![](_page_11_Picture_20.jpeg)

CONTRACTOR SHALL X-RAY SLAB PRIOR TO ANY SAWCUTTING OF EXISTING SLAB. ANY DAMAGE TO EXISTING UNDERSLAB UTILITIES DURING SAWCUTTING SHALL BE REPAIRED/REPLACED AT CONTRACTORS EXPENSE.

**EXISTING BUILDING CONSTRUCTION** PRIMARY STRUCTURE: MASONRY BEARING / STEEL FRAME

EXTERIOR WALLS: MASONRY WITH STONE PANEL VENEER EXTERIOR WINDOW SYSTEMS: STOREFRONT WINDOWS

FLOOR: CONCRETE SLAB ON GRADE THIS AREA

ROOF: METAL DECK, LOW SLOPE ROOF

### HAZARDOUS MATERIALS NOTES

HAZARDOUS MATERIALS EXIST ON THIS PROJECT. IF ANY WORK PERSON ENCOUNTERS ANY MATERIAL WHICH THEY SUSPECT MAY BE HAZARDOUS OR TOXIC, THEY SHALL IMMEDIATELY ADVISE THE OWNER. THE CONTRACTOR SHALL TAKE IMMEDIATE AND APPROPRIATE ACTION TO PROTECT THE BUILDING USERS AND WORKERS IN ACCORDANCE W/ FEDERAL, STATE, AND LOCAL LAWS, CODES AND REGULATIONS. THE ARCHITECT AND ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECTS SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.

- 1. THE CONTRACTOR IS HEREBY ADVISED THAT RDA GROUP ARCHITECTS, LLC. IS NOT A DESIGN PROFESSIONAL IN THE DETERMINATION OF THE PRESENCE OF HAZARDOUS MATERIALS, NOR IS RDA A DESIGN PROFESSIONAL INVOLVED IN MAKING RECOMMENDATIONS REGARDING THE TESTING, REMOVAL, ENCAPSULATION OR OTHER CORRECTIVE MEASURES PERTAINING TO HAZARDOUS MATERIALS.
- . IF THE WORK WHICH IS TO BE PERFORMED UNDER THE CONTRACT INTERFACES IN ANY WAY W/ THE EXISTING COMPONENTS WHICH CONTAIN HAZARDOUS MATERIALS, IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE OWNER'S ENVIRONMENTAL CONSULTANT REGARDING THE PROPER MEANS &
- METHODS TO BE UTILIZED IN DEALING W/ HAZARDOUS MATERIALS. 3. BY EXECUTION OF THE CONTRACT FOR CONSTRUCTION, THE CONTRACTOR HEREBY AGREES TO BRING NO CLAIM FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY OR OTHERWISE AGAINST THE ARCHITECT, HIS PRINCIPLES, EMPLOYEES, AGENTS OR CONSULTANTS IF SUCH A CLAIM IN ANY WAY WOULD INVOLVE THE INVESTIGATION OF OR REMEDIAL WORK RELATED TO HAZARDOUS MATERIALS IN THE PROJECT.
- 4. BY EXECUTION OF THE CONTRACT FOR CONSTRUCTION, THE CONTRACTOR FURTHER AGREES TO DEFEND. INDEMNIFY AND HOLD THE ARCHITECT. HIS PRINCIPLES, EMPLOYEES, AGENTS OR CONSULTANTS HARMLESS FROM ANY SUCH ASBESTOS OR OTHER HAZARDOUS MATERIALS RELATED CLAIMS THAT MAY BE BROUGHT BY THE CONTRACTOR'S SUBCONTRACTORS, SUPPLIERS OR OTHER THIRD PARTIES WHO MAY BE ACTING UNDER THE DIRECTION OF THE CONTRACTOR PURSUANT TO THIS PROJECT.

REFER TO ENVIRONMENTAL SPECIFICATIONS AS PREPARED BY MACPARAN CONSULTING. PROVIDE IN BID AMOUNT ALL ABATEMENT AND PROPER DISPOSAL OF ALL ASBESTOS CONTAINING MATERIALS.

![](_page_11_Figure_33.jpeg)

### \* NOT ALL NOTES MAY BE USED ON THIS SHEET $\langle \# \rangle$ DEMOLITION KEY NOTES REMOVE EXISTING METAL STUD PARTITION WALL AND FINISHES COMPLETE. COORD. W/ PROPOSED PLANS. 2. REMOVE AND SALVAGE EXISTING DOOR, FRAME, AND HARDWARE. PREP FOR REUSE AS APPLICABLE / INDICATED. PROPOSED NEW DOOR LOCATION INDICATED BY DOOR ID TAG. G.C. TO FIELD VERIFY/COORDINATE. COORDINATE W/ OWNER FOR SALVAGE NEEDS OF NON-TAGGED DOORS. ANY DOOR NOT RETAINED BY OWNER SHALL BE DISPOSED OF BY CONTRACTOR. 3. REMOVE EXISTING CASEWORK COMPLETE. 4. CUT OPENING IN EXISTING WALL FOR NEW DOOR. TOOTH IN MASONRY TO EX. WALL. REFER TO DOOR SCHEDULE FOR SIZE, PROPOSED PLAN FOR LOCATION. PROVIDE ANY NECESSARY SHORING. REMOVE 8" AT TOP OF FOUNDATION TO ALLOW FOR NEW SLAB POUR THRU. REFER TO A/A5.1 FOR NEW LINTEL. [EXISTING WALL: CMU WITH METAL STUD / GYP. BD. FURRING EACH SIDE] 5. REMOVE / SALVAGE EXISTING TRASH / RECYCLE RECEPTACLES. 6. EXISTING GLASS / ALUMINUM COLLAPSIBLE WALL SYSTEM TO REMAIN. PROTECT 7. REMOVE EX. FLOOR FINISH / BASE COMPLETE. EX. FLOOR FINISH IS CARPET UNLESS NOTED OTHERWISE. REFER TO FINISHES PLAN. 8. REMOVE EX. CONCRETE SLAB [±5" +2" THICKNESS] AS REQ'D FOR MECHANICAL SCOPE. REFER TO MECHANICAL DRAWINGS. INSTALL NEW CONCRETE SLAB THIS AREA. REFER TO DETAIL D/A5.1 9. EXISTING DOOR TO REMAIN - COORDINATE WITH PROPOSED PLAN. 10. EXISTING STOREFRONT WINDOW SYSTEM TO REMAIN, TYP 11. REMOVE EX. CONCRETE SLAB [±5" THICKNESS] AS REQ'D FOR NEW PLUMBING FIXTURES AND NEW WORK. REFER TO PME DRAWINGS. RESTORE AND INSTALL NEW CONC. SLAB THIS AREA REFER TO DETAIL 12. REMOVE EXISTING INTERIOR WINDOW COMPLETE. 13. EX. METAL STUD/ GYP. BD. PARTITIONS TO REMAIN. 14. REMOVE EXISTING GYP. BOARD FINISHES FROM EX. WALL AS REQ'D BY NEW WORK. PREP FOR PROPOSED WALL. 15. REMOVE EX. WALL COVERING WAINSCOTT AND CHAIR RAIL COMPLETE AT AREA OF EXISTING WALL TO REMAIN 16. PARTIAL HEIGHT CMU WALL W/ GYP FURRING TO REMAIN. 17. OWNER WILL REMOVE / RELOCATE EXISTING IT EQUIP. 18. REMOVE EX. ALUMINUM STOREFRONT DOOR, FRAME AND HARDWARE COMPLETE. 19. REMOVE EXISTING MECHANICAL EQUIPMENT, REFER TO MECHANICAL DRAWINGS FOR FULL SCOPE. 20. MAINTAIN EXISTING COLLAPSIBLE WALL SYSTEM STORAGE OPENING / PROTECT EXISTING TRACK DURING CONSTRUCTION. 21. CUT OPENING IN EXISTING METAL STUD PARTITION WALL FOR NEW DOOR OPENING. REFER TO DOOR SCHEDULE FOR SIZE, PROPOSED PLAN FOR LOCATION. 22. EXISTING CASEWORK TO REMAIN, PROTECT. 23. OWNER WILL REMOVE EXISTING FILE CABINETS. 24. REMOVE EX. LIT BOLLARDS AND ASSOCIATED CONCRETE BASE SALVAGE EXISTING ELEC. FOR NEW CONNECTIONS. PREP FOR NEW WORK. REFER TO ELECTRICAL DRAWINGS. 25. EXISTING CONCRETE TO REMAIN. 26. EXISTING LANDSCAPE ROCK BED TO REMAIN 27. EXISTING HANDRAIL TO REMAIN 28. EXISTING LANDSCAPING WALL TO REMAIN 29. EXISTING CONCRETE WALK TO REMAIN 30. EXISTING CONCRETE STEPS TO REMAIN 31. EXISTING CONCRETE RAMP TO REMAIN 32. REMOVE EXISTING WALL MOUNTED TV, COMPLETE. 33. EXISTING SIDEWALK CONTROL JOINT SHOWN FOR REFERENCE TO ALIGN WITH NEW WORK. 34. REMOVE EXISTING CMU WALL, COMPLETE. 35. REMOVE EXISTING TOILET PARTITIONS, COMPLETE. 36. EXISTING RAILING TO REMAIN. 37. REMOVE EX. PLUMBING FIXTURES COMPLETE. CAP EX. UTILITIES. COORD. W/ PLUMBING DRAWINGS. PATCH / REPAIR MASONRY WALL / CONCRETE SLAB. 38. REMOVE EXISTING CELL DOOR SYSTEM, COMPLETE. REPAIR SCARS IN EXISTING MASONRY FROM REMOVAL 39. EXISTING UTILITY ACCESS PANELS TO REMAIN. 40. REMOVE EXISTING UTILITY ACCESS PANEL. PATCH AND REPAIR GYP. BOARD WALL AS REQUIRED. 41. EXISTING COLLAPSIBLE DOOR SYSTEM TRACK [RECESSED] TO REMAIN. PROTECT DURING CONSTRUCTION. 42. EXISTING STRUCTURE TO REMAIN, PROTECT. 43. REMOVE EXISTING CURTAIN WALL SYSTEM, COMPLETE - INCLUSIVE OF DOORS. 44. REMOVE EXISTING BASEBOARD HEATING & UNDERSLAB DUCT/UTILITIES COMPLETE. REFER TO MECHANICAL DRAWINGS. 45. REMOVE EXISTING VINYL TREAD / RISER FINISH AT EXISTING STAIRS, COMPLETE. PREP FOR NEW FINISH. 46. EXISTING CELL DOOR / SECURITY BARS TO REMAIN 47. EXISTING DRINKING FOUNTAIN TO REMAIN / PROTECT.

- 48. EXISTING TRANSACTION WINDOW TO REMAIN.
- 49. EXISTING TRANSACTION COUNTER TO REMAIN. 50. REMOVE EXISTING PLUMBING FIXTURES AND ACCESSORIES.
- COMPLETE. PREP FOR NEW FIXTURES. 51. REMOVE EXISTING DOOR/HARDWARE, COMPLETE. DOOR HAS
- ASBESTOS CORE ABATE PER ENVIRONMENTAL SCOPE. EXISTING H.M. FRAME TO REMAIN. 52. REMOVE EXISTING WALL MOUNTED LIGHT FIXTURE, COMPLETE.
- 53. EXISTING SLATE WALL FINISH TO REMAIN, PROTECT.
- 54. REMOVE PORTION OF EXISTING REINFORCED CONCRETE SLAB [8" DEPTH] AS REQ'D FOR NEW PLUMBING FIXTURE INSTALL.
- 55. REMOVE PORTION OF PARTITION WALL, PREP FOR NEW RECESSED
- ACCESSORY. REFER TO ENLARGED PLANS. 56. REMOVE PORTION OF EX. CONCRETE WALK TO ACCOMMODATE NEW STRUCTURE. REFER TO STRUCTURAL FOR FOUNDATION DRAWINGS.
- 57. REMOVE EXISTING ADA BUTTON AT THIS LOCATION. PREP FOR NEW CAP
- 58. REMOVE EXISTING SWITCHES TO INTERVIEW ROOM #152, REFER TO PROPOSED PLAN FOR RELOCATION. 59. REMOVE EXISTING CMU/GYP BOARD PARTIAL HEIGHT PARTITION AS
- REQ'D TO INSTALL NEW DOOR. EXTEND REMOVAL TO NEXT MASONRY JOINT, F.V. 60. REMOVE EX. CONCRETE SLAB [±5" THICKNESS] AS REQ'D FOR NEW
- UNDERSLAB ELECTRICAL/DATA/FLOOR BOX. REFER TO ELECTRICAL DRAWINGS. INSTALL NEW CONCRETE SLAB THIS AREA. REFER TO DETAIL D/A5.1
- 61. REMOVE EXISTING PLUMBING FIXTURE AS REQ'D BY NEW CONNECTIONS. REFER TO PLUMBING DRAWINGS. COORD. FOR ANY REQUIRED WALL REPAIRS.

![](_page_11_Figure_49.jpeg)

SCALE: NTS

![](_page_11_Picture_70.jpeg)

![](_page_11_Picture_71.jpeg)

![](_page_11_Picture_72.jpeg)

![](_page_11_Picture_73.jpeg)

![](_page_11_Figure_74.jpeg)

![](_page_11_Figure_75.jpeg)

### DEMOLITION GENERAL NOTES SEE SHEET D1.1 FOR GENERAL NOTES

REFER TO SHEET D1.1 FOR WALL BASE REMOVAL DETAIL / NOTES.

![](_page_12_Figure_2.jpeg)

HATCH INDICATES NO SCOPE DEPICTED FOR PLAN SPECIFIC DISCIPLINE. REFER TO OTHER PLANS FOR POTENTIAL SCOPE IN OTHER DISCIPLINES.

HATCH INDICATES APPROXIMATE REMOVAL AND REPLACEMENT OF CONCRETE SLAB ON GRADE TO ACCOMMODATE UNDERSLAB UTILITIES

HATCH INDICATES REMOVAL OF REINFORCED CONCRETE SLAB CONTRACTOR SHALL X-RAY SLAB PRIOR TO ANY SAWCUTTING OF EXISTING SLAB. ANY DAMAGE TO EXISTING UNDERSLAB UTILITIES DURING SAWCUTTING SHALL BE REPAIRED/REPLACED AT CONTRACTORS EXPENSE.

![](_page_12_Picture_7.jpeg)

**26**  $\langle 7 \rangle$ CORRIDOR OTODACE

![](_page_12_Picture_9.jpeg)

(B) BASE REMOVAL REFERENCE

SCALE: NONE

![](_page_12_Figure_12.jpeg)

![](_page_12_Picture_13.jpeg)

	* N(	OT ALL NOTES MAY BE USED ON THIS SHEET
(#)	ש	EMOLITION KEY NOTES
	1.	REMOVE EXISTING METAL STUD PARTITION WALL AND FINISHES COMPLETE. COORD. W/ PROPOSED PLANS.
	2.	REMOVE AND SALVAGE EXISTING DOOR, FRAME, AND HARDWARE. PREP FOR REUSE AS APPLICABLE / INDICATED. PROPOSED NEW DOOR LOCATION INDICATED BY DOOR ID TAG. G.C. TO FIELD VERIFY/COORDINATE. COORDINATE W/ OWNER FOR SALVAGE NEEDS OF NON-TAGGED DOORS. ANY DOOR NOT RETAINED BY OWNER SHALL BE DISPOSED OF BY CONTRACTOR.
	3.	REMOVE EXISTING CASEWORK COMPLETE.
	4.	CUT OPENING IN EXISTING WALL FOR NEW DOOR. TOOTH IN MASONRY TO EX. WALL. REFER TO DOOR SCHEDULE FOR SIZE, PROPOSED PLAN FOR LOCATION. PROVIDE ANY NECESSARY SHORING. REMOVE 8" AT TOP OF FOUNDATION TO ALLOW FOR NEW SLAB POUR THRU. REFER TO A/A5.1 FOR NEW LINTEL. [EXISTING WALL: CMU WITH METAL STUD / GYP. BD. FURRING EACH SIDE]
	5.	REMOVE / SALVAGE EXISTING TRASH / RECYCLE RECEPTACLES.
	6.	EXISTING GLASS / ALUMINUM COLLAPSIBLE WALL SYSTEM TO REMAIN. PROTECT.
	7.	REMOVE EX. FLOOR FINISH / BASE COMPLETE. EX. FLOOR FINISH IS CARPET UNLESS NOTED OTHERWISE. REFER TO FINISHES PLAN.
	8.	REMOVE EX. CONCRETE SLAB [±5" +2" THICKNESS] AS REQ'D FOR MECHANICAL SCOPE. REFER TO MECHANICAL DRAWINGS. INSTALL NEW CONCRETE SLAB THIS AREA. REFER TO DETAIL D/A5.1
	9.	EXISTING DOOR TO REMAIN - COORDINATE WITH PROPOSED PLAN.
	10.	EXISTING STOREFRONT WINDOW SYSTEM TO REMAIN, TYP.
	11.	REMOVE EX. CONCRETE SLAB [±5" THICKNESS] AS REQ'D FOR NEW PLUMBING FIXTURES AND NEW WORK. REFER TO PME DRAWINGS. RESTORE AND INSTALL NEW CONC. SLAB THIS AREA REFER TO DETAIL D/A5.1
	12.	REMOVE EXISTING INTERIOR WINDOW COMPLETE.
	13.	EX. METAL STUD/ GYP. BD. PARTITIONS TO REMAIN.
	14.	REMOVE EXISTING GYP. BOARD FINISHES FROM EX. WALL AS REQ'D BY NEW WORK. PREP FOR PROPOSED WALL.
	15.	REMOVE EX. WALL COVERING WAINSCOTT AND CHAIR RAIL COMPLETE AT AREA OF EXISTING WALL TO REMAIN
	16.	PARTIAL HEIGHT CMU WALL W/ GYP FURRING TO REMAIN.
	17.	OWNER WILL REMOVE / RELOCATE EXISTING IT EQUIP.
	18.	REMOVE EX. ALUMINUM STOREFRONT DOOR, FRAME AND HARDWARE COMPLETE.
	40	DEMONE EVIDENDA MEDILANIOAL EDURNENT DEEED TO VERYINAN

- 19. REMOVE EXISTING MECHANICAL EQUIPMENT, REFER TO MECHANICAL DRAWINGS FOR FULL SCOPE.
- 20. MAINTAIN EXISTING COLLAPSIBLE WALL SYSTEM STORAGE OPENING / PROTECT EXISTING TRACK DURING CONSTRUCTION. 21. CUT OPENING IN EXISTING METAL STUD PARTITION WALL FOR NEW DOOR OPENING. REFER TO DOOR SCHEDULE FOR SIZE, PROPOSED
- PLAN FOR LOCATION. 22. EXISTING CASEWORK TO REMAIN, PROTECT.
- 23. OWNER WILL REMOVE EXISTING FILE CABINETS. 24. REMOVE EX. LIT BOLLARDS AND ASSOCIATED CONCRETE BASE.
- SALVAGE EXISTING ELEC. FOR NEW CONNECTIONS. PREP FOR NEW WORK. REFER TO ELECTRICAL DRAWINGS.
- 25. EXISTING CONCRETE TO REMAIN.
- 26. EXISTING LANDSCAPE ROCK BED TO REMAIN 27. EXISTING HANDRAIL TO REMAIN
- 28. EXISTING LANDSCAPING WALL TO REMAIN
- 29. EXISTING CONCRETE WALK TO REMAIN
- 30. EXISTING CONCRETE STEPS TO REMAIN 31. EXISTING CONCRETE RAMP TO REMAIN
- 32. REMOVE EXISTING WALL MOUNTED TV, COMPLETE. 33. EXISTING SIDEWALK CONTROL JOINT SHOWN FOR REFERENCE TO
- ALIGN WITH NEW WORK. 34. REMOVE EXISTING CMU WALL, COMPLETE.
- 35. REMOVE EXISTING TOILET PARTITIONS, COMPLETE.
- 36. EXISTING RAILING TO REMAIN. 37. REMOVE EX. PLUMBING FIXTURES COMPLETE. CAP EX. UTILITIES.
- COORD. W/ PLUMBING DRAWINGS. PATCH / REPAIR MASONRY WALL / CONCRETE SLAB.
- 38. REMOVE EXISTING CELL DOOR SYSTEM, COMPLETE. REPAIR SCARS IN EXISTING MASONRY FROM REMOVAL
- 39. EXISTING UTILITY ACCESS PANELS TO REMAIN. 40. REMOVE EXISTING UTILITY ACCESS PANEL. PATCH AND REPAIR GYP.
- BOARD WALL AS REQUIRED. 41. EXISTING COLLAPSIBLE DOOR SYSTEM TRACK [RECESSED] TO REMAIN.
- PROTECT DURING CONSTRUCTION.
- 42. EXISTING STRUCTURE TO REMAIN, PROTECT. 43. REMOVE EXISTING CURTAIN WALL SYSTEM, COMPLETE - INCLUSIVE OF
- DOORS. 44. REMOVE EXISTING BASEBOARD HEATING & UNDERSLAB
- DUCT/UTILITIES COMPLETE. REFER TO MECHANICAL DRAWINGS.
- 45. REMOVE EXISTING VINYL TREAD / RISER FINISH AT EXISTING STAIRS, COMPLETE. PREP FOR NEW FINISH.
- 46. EXISTING CELL DOOR / SECURITY BARS TO REMAIN
- 47. EXISTING DRINKING FOUNTAIN TO REMAIN / PROTECT. 48. EXISTING TRANSACTION WINDOW TO REMAIN.
- 49. EXISTING TRANSACTION COUNTER TO REMAIN.
- 50. REMOVE EXISTING PLUMBING FIXTURES AND ACCESSORIES, COMPLETE. PREP FOR NEW FIXTURES.
- 51. REMOVE EXISTING DOOR/HARDWARE, COMPLETE. DOOR HAS ASBESTOS CORE - ABATE PER ENVIRONMENTAL SCOPE. EXISTING H.M. FRAME TO REMAIN.
- 52. REMOVE EXISTING WALL MOUNTED LIGHT FIXTURE, COMPLETE.
- 53. EXISTING SLATE WALL FINISH TO REMAIN, PROTECT. 54. REMOVE PORTION OF EXISTING REINFORCED CONCRETE SLAB [8"
- DEPTH] AS REQ'D FOR NEW PLUMBING FIXTURE INSTALL. 55. REMOVE PORTION OF PARTITION WALL, PREP FOR NEW RECESSED
- ACCESSORY. REFER TO ENLARGED PLANS.
- 56. REMOVE PORTION OF EX. CONCRETE WALK TO ACCOMMODATE NEW STRUCTURE. REFER TO STRUCTURAL FOR FOUNDATION DRAWINGS. 57. REMOVE EXISTING ADA BUTTON AT THIS LOCATION. PREP FOR NEW
- CAP 58. REMOVE EXISTING SWITCHES TO INTERVIEW ROOM #152, REFER TO
- PROPOSED PLAN FOR RELOCATION. 59. REMOVE EXISTING CMU/GYP BOARD PARTIAL HEIGHT PARTITION AS REQ'D TO INSTALL NEW DOOR. EXTEND REMOVAL TO NEXT MASONRY
- JOINT, F.V. 60. REMOVE EX. CONCRETE SLAB [±5" THICKNESS] AS REQ'D FOR NEW UNDERSLAB ELECTRICAL/DATA/FLOOR BOX. REFER TO ELECTRICAL DRAWINGS. INSTALL NEW CONCRETE SLAB THIS AREA. REFER TO
- DETAIL D/A5.1 61. REMOVE EXISTING PLUMBING FIXTURE AS REQ'D BY NEW CONNECTIONS. REFER TO PLUMBING DRAWINGS. COORD. FOR ANY REQUIRED WALL REPAIRS.

![](_page_12_Figure_52.jpeg)

![](_page_12_Picture_75.jpeg)

![](_page_12_Picture_76.jpeg)

![](_page_12_Figure_77.jpeg)

![](_page_12_Figure_78.jpeg)

![](_page_12_Figure_79.jpeg)

### DEMOLITION GENERAL NOTES SEE SHEET D1.1 FOR GENERAL NOTES

REFER TO SHEET D1.1 FOR WALL BASE REMOVAL DETAIL / NOTES.

![](_page_13_Figure_2.jpeg)

+ +

HATCH INDICATES NO SCOPE DEPICTED FOR PLAN SPECIFIC DISCIPLINE. REFER TO OTHER PLANS FOR POTENTIAL SCOPE IN OTHER DISCIPLINES.

HATCH INDICATES APPROXIMATE REMOVAL AND REPLACEMENT OF CONCRETE SLAB ON GRADE TO ACCOMMODATE UNDERSLAB UTILITIES

![](_page_13_Figure_5.jpeg)

HATCH INDICATES REMOVAL OF REINFORCED CONCRETE SLAB CONTRACTOR SHALL X-RAY SLAB PRIOR TO ANY SAWCUTTING OF EXISTING SLAB. ANY DAMAGE TO EXISTING UNDERSLAB UTILITIES DURING SAWCUTTING SHALL BE REPAIRED/REPLACED AT CONTRACTORS EXPENSE.

![](_page_13_Figure_7.jpeg)

![](_page_13_Picture_8.jpeg)

* NOT ALL NOTES MAY BE USED ON THIS SHEET	
<b><i>#</i></b> DEMOLITION KEY NOTES	

- 1. REMOVE EXISTING METAL STUD PARTITION WALL AND FINISHES
- COMPLETE. COORD. W/ PROPOSED PLANS. 2. REMOVE AND SALVAGE EXISTING DOOR, FRAME, AND HARDWARE.
- PREP FOR REUSE AS APPLICABLE / INDICATED. PROPOSED NEW DOOR LOCATION INDICATED BY DOOR ID TAG. G.C. TO FIELD VERIFY/COORDINATE. COORDINATE W/ OWNER FOR SALVAGE NEEDS OF NON-TAGGED DOORS. ANY DOOR NOT RETAINED BY OWNER SHALL BE DISPOSED OF BY CONTRACTOR.
- 3. REMOVE EXISTING CASEWORK COMPLETE. 4. CUT OPENING IN EXISTING WALL FOR NEW DOOR. TOOTH IN MASONRY
- TO EX. WALL. REFER TO DOOR SCHEDULE FOR SIZE, PROPOSED PLAN FOR LOCATION. PROVIDE ANY NECESSARY SHORING. REMOVE 8" AT TOP OF FOUNDATION TO ALLOW FOR NEW SLAB POUR THRU. REFER TO A/A5.1 FOR NEW LINTEL. [EXISTING WALL: CMU WITH METAL STUD / GYP. BD. FURRING EACH SIDE]
- 5. REMOVE / SALVAGE EXISTING TRASH / RECYCLE RECEPTACLES. 6. EXISTING GLASS / ALUMINUM COLLAPSIBLE WALL SYSTEM TO REMAIN. PROTECT.
- 7. REMOVE EX. FLOOR FINISH / BASE COMPLETE. EX. FLOOR FINISH IS CARPET UNLESS NOTED OTHERWISE. REFER TO FINISHES PLAN. 8. REMOVE EX. CONCRETE SLAB [±5" +2" THICKNESS] AS REQ'D FOR
- MECHANICAL SCOPE. REFER TO MECHANICAL DRAWINGS. INSTALL NEW CONCRETE SLAB THIS AREA. REFER TO DETAIL D/A5.1
- 9. EXISTING DOOR TO REMAIN COORDINATE WITH PROPOSED PLAN. 10. EXISTING STOREFRONT WINDOW SYSTEM TO REMAIN, TYP. 11. REMOVE EX. CONCRETE SLAB [±5" THICKNESS] AS REQ'D FOR NEW
- PLUMBING FIXTURES AND NEW WORK. REFER TO PME DRAWINGS. RESTORE AND INSTALL NEW CONC. SLAB THIS AREA REFER TO DETAIL D/A5.1
- 12. REMOVE EXISTING INTERIOR WINDOW COMPLETE. 13. EX. METAL STUD/ GYP. BD. PARTITIONS TO REMAIN.
- 14. REMOVE EXISTING GYP. BOARD FINISHES FROM EX. WALL AS REQ'D BY NEW WORK. PREP FOR PROPOSED WALL.
- 15. REMOVE EX. WALL COVERING WAINSCOTT AND CHAIR RAIL COMPLETE
- AT AREA OF EXISTING WALL TO REMAIN 16. PARTIAL HEIGHT CMU WALL W/ GYP FURRING TO REMAIN.
- 17. OWNER WILL REMOVE / RELOCATE EXISTING IT EQUIP.
- 18. REMOVE EX. ALUMINUM STOREFRONT DOOR, FRAME AND HARDWARE COMPLETE.
- 19. REMOVE EXISTING MECHANICAL EQUIPMENT, REFER TO MECHANICAL DRAWINGS FOR FULL SCOPE.
- 20. MAINTAIN EXISTING COLLAPSIBLE WALL SYSTEM STORAGE OPENING / PROTECT EXISTING TRACK DURING CONSTRUCTION. 21. CUT OPENING IN EXISTING METAL STUD PARTITION WALL FOR NEW DOOR OPENING. REFER TO DOOR SCHEDULE FOR SIZE, PROPOSED
- PLAN FOR LOCATION. 22. EXISTING CASEWORK TO REMAIN, PROTECT.
- 23. OWNER WILL REMOVE EXISTING FILE CABINETS.
- 24. REMOVE EX. LIT BOLLARDS AND ASSOCIATED CONCRETE BASE. SALVAGE EXISTING ELEC. FOR NEW CONNECTIONS. PREP FOR NEW WORK. REFER TO ELECTRICAL DRAWINGS.
- 25. EXISTING CONCRETE TO REMAIN.
- 26. EXISTING LANDSCAPE ROCK BED TO REMAIN 27. EXISTING HANDRAIL TO REMAIN
- 28. EXISTING LANDSCAPING WALL TO REMAIN
- 29. EXISTING CONCRETE WALK TO REMAIN
- 30. EXISTING CONCRETE STEPS TO REMAIN 31. EXISTING CONCRETE RAMP TO REMAIN
- 32. REMOVE EXISTING WALL MOUNTED TV, COMPLETE. 33. EXISTING SIDEWALK CONTROL JOINT SHOWN FOR REFERENCE TO
- ALIGN WITH NEW WORK.
- 34. REMOVE EXISTING CMU WALL, COMPLETE.
- 35. REMOVE EXISTING TOILET PARTITIONS, COMPLETE. 36. EXISTING RAILING TO REMAIN.
- 37. REMOVE EX. PLUMBING FIXTURES COMPLETE. CAP EX. UTILITIES. COORD. W/ PLUMBING DRAWINGS. PATCH / REPAIR MASONRY WALL / CONCRETE SLAB.
- 38. REMOVE EXISTING CELL DOOR SYSTEM, COMPLETE. REPAIR SCARS IN EXISTING MASONRY FROM REMOVAL
- 39. EXISTING UTILITY ACCESS PANELS TO REMAIN.
- 40. REMOVE EXISTING UTILITY ACCESS PANEL. PATCH AND REPAIR GYP. BOARD WALL AS REQUIRED. 41. EXISTING COLLAPSIBLE DOOR SYSTEM TRACK [RECESSED] TO REMAIN.
- PROTECT DURING CONSTRUCTION.
- 42. EXISTING STRUCTURE TO REMAIN, PROTECT.
- 43. REMOVE EXISTING CURTAIN WALL SYSTEM, COMPLETE INCLUSIVE OF DOORS.
- 44. REMOVE EXISTING BASEBOARD HEATING & UNDERSLAB
- DUCT/UTILITIES COMPLETE. REFER TO MECHANICAL DRAWINGS. 45. REMOVE EXISTING VINYL TREAD / RISER FINISH AT EXISTING STAIRS,
- COMPLETE. PREP FOR NEW FINISH.
- 46. EXISTING CELL DOOR / SECURITY BARS TO REMAIN 47. EXISTING DRINKING FOUNTAIN TO REMAIN / PROTECT.
- 48. EXISTING TRANSACTION WINDOW TO REMAIN.
- 49. EXISTING TRANSACTION COUNTER TO REMAIN.
- 50. REMOVE EXISTING PLUMBING FIXTURES AND ACCESSORIES, COMPLETE. PREP FOR NEW FIXTURES.
- 51. REMOVE EXISTING DOOR/HARDWARE, COMPLETE. DOOR HAS ASBESTOS CORE - ABATE PER ENVIRONMENTAL SCOPE. EXISTING H.M. FRAME TO REMAIN.
- 52. REMOVE EXISTING WALL MOUNTED LIGHT FIXTURE, COMPLETE. 53. EXISTING SLATE WALL FINISH TO REMAIN, PROTECT.
- 54. REMOVE PORTION OF EXISTING REINFORCED CONCRETE SLAB [8"
- DEPTH] AS REQ'D FOR NEW PLUMBING FIXTURE INSTALL. 55. REMOVE PORTION OF PARTITION WALL, PREP FOR NEW RECESSED
- ACCESSORY. REFER TO ENLARGED PLANS.
- 56. REMOVE PORTION OF EX. CONCRETE WALK TO ACCOMMODATE NEW STRUCTURE. REFER TO STRUCTURAL FOR FOUNDATION DRAWINGS. 57. REMOVE EXISTING ADA BUTTON AT THIS LOCATION. PREP FOR NEW
- CAP 58. REMOVE EXISTING SWITCHES TO INTERVIEW ROOM #152, REFER TO
- PROPOSED PLAN FOR RELOCATION. 59. REMOVE EXISTING CMU/GYP BOARD PARTIAL HEIGHT PARTITION AS REQ'D TO INSTALL NEW DOOR. EXTEND REMOVAL TO NEXT MASONRY
- JOINT, F.V. 60. REMOVE EX. CONCRETE SLAB [±5" THICKNESS] AS REQ'D FOR NEW UNDERSLAB ELECTRICAL/DATA/FLOOR BOX. REFER TO ELECTRICAL DRAWINGS. INSTALL NEW CONCRETE SLAB THIS AREA. REFER TO
- DETAIL D/A5.1 61. REMOVE EXISTING PLUMBING FIXTURE AS REQ'D BY NEW CONNECTIONS. REFER TO PLUMBING DRAWINGS. COORD. FOR ANY REQUIRED WALL REPAIRS.

![](_page_13_Figure_66.jpeg)

![](_page_13_Picture_89.jpeg)

![](_page_13_Picture_90.jpeg)

![](_page_13_Figure_91.jpeg)

![](_page_13_Figure_92.jpeg)

D1.3

### DEMOLITION GENERAL NOTES

REFER TO SHEET D1.1 FOR WALL BASE REMOVAL DETAIL / NOTES.

![](_page_14_Figure_2.jpeg)

![](_page_14_Picture_7.jpeg)

![](_page_14_Picture_8.jpeg)

![](_page_14_Picture_10.jpeg)

![](_page_14_Picture_31.jpeg)

![](_page_14_Picture_32.jpeg)

![](_page_14_Picture_33.jpeg)

![](_page_14_Picture_34.jpeg)

![](_page_14_Figure_35.jpeg)

![](_page_14_Figure_36.jpeg)

D1.4

![](_page_15_Picture_0.jpeg)

![](_page_15_Picture_1.jpeg)

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SCHAAF 14503

![](_page_15_Figure_16.jpeg)

![](_page_15_Figure_20.jpeg)

![](_page_15_Picture_21.jpeg)

BASEMENT

![](_page_16_Figure_0.jpeg)

![](_page_16_Figure_1.jpeg)

![](_page_16_Figure_4.jpeg)

REFER TO PME DRAWINGS FOR LIGHTING AND HVAC DEMOLITION SCOPE

![](_page_16_Figure_6.jpeg)

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![](_page_16_Picture_22.jpeg)

![](_page_16_Figure_23.jpeg)

HATCH INDICATES NO SCOPE DEPICTED FOR PLAN SPECIFIC DISCIPLINE. REFER TO OTHER PLANS FOR POTENTIAL SCOPE IN OTHER DISCIPLINES.

![](_page_16_Picture_26.jpeg)

![](_page_16_Picture_27.jpeg)

![](_page_16_Picture_28.jpeg)

![](_page_17_Figure_0.jpeg)

![](_page_17_Picture_1.jpeg)

### **DEMOLITION** \* NOT ALL NOTES MAY BE USED ON THIS SHEET **REFLECTED CEILING PLAN KEY NOTES** REMOVE EXISTING METAL STUD/GYP BOARD FRAMING/FURRING. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL DEMOLITION SCOPE. 2. REMOVE EXISTING LIGHTING / HVAC DEVICES THIS AREA. 3. EXISTING GYPSUM BOARD CEILING TO REMAIN. PATCH AS REQUIRED. PREP FOR NEW WORK. 4. EXISTING SKYLIGHTS TO REMAIN. NO WORK 5. EXISTING TO REMAIN - NO WORK UNLESS NOTED OTHERWISE. 6. REMOVE EXISTING CEILING AS REQUIRED AT THIS AREA FOR NEW WORK, COORD. W/ PROPOSED PLANS. SALVAGE EXISTING LIGHT FIXTURES FOR RE-INSTALL. MATCH EXISTING IN LIKE KIND. 7. EXISTING GYPSUM BOARD SOFFIT TO REMAIN. PATCH / REPAIR AS REQUIRED BY NEW WORK. 8. CUT OPENING IN EXISTING GYP. BOARD CEILING, FRAMING AND METAL DECK FOR NEW ACCESS PANEL. F.V. EXACT CONDITIONS AND NOTIFY ARCHITECT OF DISCREPANCIES.

- 9. REMOVE EXISTING CEILING GRID, TILES, LIGHT FIXTURES, AND HVAC DIFFUSERS COMPLETE THIS AREA. SALVAGE EXISTING LIGHT FIXTURE FOR RE-INSTALL. EXISTING SPRINKLER SYSTEM AND SECURITY COMPONENTS TO REMAIN. PROVIDE TEMPORARY SUPPORT FOR SECURITY COMPONENTS AS REQUIRED. REFER TO REFLECTED CEILING PLAN AND PME DRAWINGS.
- 10. REMOVE EXISTING CEILING GRID, TILES, LIGHT FIXTURES, AND HVAC DIFFUSERS COMPLETE THIS AREA. EXISTING SPRINKLER SYSTEM AND SECURITY COMPONENTS TO REMAIN. PROVIDE TEMPORARY SUPPORT FOR SECURITY COMPONENTS AS REQUIRED. REFER TO REFLECTED CEILING PLAN AND PME DRAWINGS.
- 11. REMOVE EXISTING GYPSUM BOARD SOFFIT, COMPLETE. 12. REMOVE PORTION OF EXISTING CEILING FOR THE INSTALLATION OF
- NEW SOFFIT. REFER TO PROPOSED REFLECTED CEILING PLAN. 13. EXISTING STRIP LIGHTING AT SKYLIGHT TO REMAIN, TYP.
- 14. PATCH AND REPAIR EXISTING CEILING [CONCRETE] AT AREAS OF CMU WALL / CELL DOOR SYSTEM REMOVAL, TYP.
- 15. REMOVE EXISTING CAN LIGHTING AT GYPSUM BOARD SOFFIT, COMPLETE. PATCH / REPAIR EXISTING GYPSUM BOARD AT AREAS OF NEW LIGHTING.
- 16. REMOVE EXISTING CEILING MOUNTED HEAT PANEL, COMPLETE. 17. REMOVE EXISTING GYPSUM CEILING / FRAMING SYSTEM, LIGHT
- FIXTURES, HVAC DEVICES, COMPLETE. PREP FOR PROPOSED CEILING. 18. EXISTING COLLAPSIBLE DOOR SYSTEM TRACK [RECESSED] TO REMAIN.
- PROTECT DURING CONSTRUCTION. 19. REMOVE EXISTING AIR DEVICE. REFER TO MECHANICAL DRAWINGS. PROVIDE METAL COVER PLATE / ACCESS AT EXISTING CEILING TO COVER OPENING.
- 20. EXISTING CEILING GRID, PADS AND PENDANT LIGHTS TO REMAIN. REMOVE EXISTING CAN LIGHTS. REMOVE EXISTING PADS AS REQUIRED BY NEW WORK. REPLACE IN LIKE KIND. REFER TO ELECTRICAL DRAWINGS.
- 21. REMOVE SURVEILLANCE EQUIPMENT AT THIS LOCATION. SALVAGE AS DIRECTED BY OWNER. REFER TO ELECTRICAL DRAWINGS.
- 22. REMOVE EXISTING TRACK LIGHTING, COMPLETE. 23. REMOVE EXISTING SPEAKER. PREP FOR NEW ACOUSTICAL TILE AT
- AREA OF REMOVAL. REFER TO ELECTRICAL DRAWINGS. 24. REMOVE EXISTING LIGHTING AT THIS LOCATION, PREP FOR NEW LIGHTING.

### SYMBOL LEGEND

![](_page_17_Picture_19.jpeg)

REFER TO PME DRAWINGS FOR LIGHTING AND HVAC DEMOLITION SCOPE

![](_page_17_Figure_21.jpeg)

![](_page_17_Picture_22.jpeg)

![](_page_17_Picture_35.jpeg)

![](_page_17_Figure_36.jpeg)

![](_page_17_Figure_39.jpeg)

![](_page_17_Figure_40.jpeg)

![](_page_17_Figure_41.jpeg)

![](_page_17_Picture_42.jpeg)

![](_page_18_Figure_0.jpeg)

![](_page_18_Picture_1.jpeg)

![](_page_18_Figure_2.jpeg)

![](_page_18_Picture_17.jpeg)

![](_page_18_Picture_18.jpeg)

![](_page_18_Figure_19.jpeg)

![](_page_18_Picture_23.jpeg)

![](_page_18_Picture_24.jpeg)

### **GENERAL NOTES**

- 1. COORDINATE ALL ROUGH IN LOCATIONS WITH EQUIPMENT REQUIREMENTS, ETC.
- 2. COORDINATE ANY APPLICABLE FINISHES WITH BUILDING STANDARDS.
- 3. FURNISHINGS, EQUIPMENT AND ACCESSORIES BY OWNER. 4. INSTALL NEW SEALANT AT ALL APPLICABLE INTERIOR JOINTS.
- 5. FIELD COORDINATE EX. FRAMING CONDITIONS & COORDINATE ANY
- DISCREPANCIES W/ ARCHITECT. 6. FIELD VERIFY ALL DIMENSIONS & CONDITIONS.
- 7. INSTALL FIRESTOP BLOCKING AT ALL LOCATIONS REQUIRED BY FRAMING, SOFFITS, ETC. TO ELIMINATE ALL OPEN STUD CAVITIES. PROVIDE FIRESTOP BLOCKING AT CEILING LINE AS REQ'D TYPICAL.
- 8. PROVIDE FIRE EXTINGUISHERS/CABINETS AS REQUIRED BY LOCAL FIRE DEPARTMENT. REFER TO CODE REVIEW PLAN FOR FIRE EXTINGUISHER LOCATIONS. 9. COORDINATE WORK WITH APPLICABLE PLUMBING, MECHANICAL, AND
- ELECTRICAL DRAWINGS. PROVIDE ANY REQUIRED ACCESS PANELS, ETC. TO ACCESS CONCEALED WORK. 10. DIMENSIONS
- A. DIMENSIONS ARE TO FACE OF EXISTING FINISHES AND TO FACE OF STUD FOR NEW WALL FRAMING. B. INTERIOR METAL STUD PARTITIONS ARE 3-5/8" UNLESS NOTED
- OTHERWISE. C. DO NOT SCALE DRAWINGS.
- D. REFER TO DRAWING NOTES AND DETAILS FOR ANY SPECIAL NOTES THAT GOVERN LAYOUT. 13. LAYOUT
- A. LOCATE JAMBS MINIMUM OF 4" FROM CORNER TO OUTSIDE EDGE OF FRAME WHERE POSSIBLE, EXCEPT WHERE NOTED OTHERWISE. B. MAINTAIN ALL MANEUVERING CLEARANCE FOR ALL DOORS PER ACCESSIBLE GUIDELINES / STANDARDS. COORDINATE ALL
- CONFLICTS WITH THE ARCHITECT.
- 14. ADJUSTMENTS A. CAULK ALL OPEN JOINTS, INCLUDING GAPS BETWEEN COUNTERTOPS, CABINETS, FRAMES, TRIM, AND WALLS. FILL ALL JOINTS SLIGHTLY CONCAVE. B. LUBRICATE AND ADJUST ALL OPERATING MECHANISMS, INCLUDING
- DOOR HARDWARE, FOR SMOOTH OPERATION.
- C. PATCH AND REPAIR ALL CEILINGS, WALLS, MULLIONS, HVAC ENCLOSURES, AND SILLS WHERE REQUIRED.
- 15. FINISHES: REFER TO FINISH PLANS/SCHEDULES. COORDINATE ALL WITH OWNER AS APPLICABLE.
- 16. PROVIDE WOOD BLOCKING AS REQUIRED TO SUPPORT WALL MOUNTED ITEMS, CASEWORK, COUNTERTOPS, TOILET ACCESSORIES, DOOR STOPS, AND AS SPECIFICALLY NOTED. CONCEAL ALL BLOCKING IN WALLS. BLOCKING SHALL BE A MINIMUM OF 2X8 [ALL BLOCKING SHALL BE FIRE RETARDANT TREATED]. FIELD COORDINATE.
- 17. PATCH ALL EX. WALLS AS REQ'D INCLUDING SCARS FROM DEMOLITION, NEW WIRING BLOCKING, ETC. TO LIKE NEW CONDITION. MATCH ADJACENT AS APPLICABLE.
- 18. REFER TO SIGNAGE PLAN FOR INTERIOR SIGNAGE LOCATIONS / TYPES.

![](_page_19_Figure_21.jpeg)

![](_page_19_Figure_22.jpeg)

### \* NOT ALL NOTES MAY BE USED ON THIS SHEET **#** NEW CONSTRUCTION KEY NOTES

- 1. INSTALL NEW BALLISTIC WALL LINING AND GYP. BOARD OVER EXISTING FRAMING. REFER TO WALL TYPES
- 2. REMOVE EXISTING INSTALL NEW LIT BOLLARDS / CONCRETE BASE. INTENT IS TO REUSE EXISTING LOCATIONS WHERE APPLICABLE. REFER TO ARCHITECTURAL SITE PLAN AND ELECTRICAL DRAWINGS.
- 3. INSTALL NEW STOREFRONT SYSTEM, TYP. 4. INSTALL NEW 3 5/8" METAL STUD INFILL TO FRAME NEW DOOR. EXISTING MASONRY EDGE TO BE FURRED WITH NEW GYP. BOARD FOR
- UNIFORM APPEARANCE. 5. NEW CASEWORK, REFER TO INTERIOR ELEVATIONS / DETAILS. PROVIDE
- FRT BLOCKING. 6. EQUIPMENT BY OWNER, TYP. (PROVIDE BLOCKING FOR WALL MOUNTED
- ITEMS, TYP.)
- 7. REPAIR / PATCH EXISTING WALL AS REQUIRED BY DEMOLITION SCARS FOR LIKE NEW APPEARANCE.
- 8. INSTALL TOILET / URINAL PARTITION WALLS. REFER TO INTERIOR ELEVATIONS.
- 9. INFILL OPENING IN METAL STUD WALL. MATCH IN LIKE KIND / FINISH FLUSH TO PROVIDE A UNIFORM FINISH.
- 10. INSTALL NEW SEMI RECESSED FIRE EXTINGUISHER CABINET. COORDINATE FINAL LOCATION WITH FIRE DEPARTMENT AS APPLICABLE.
- 11. REPAIR / PATCH CONCRETE FLOOR AT AREA OF PLUMBING DEMO AS REQUIRED FOR LIKE NEW APPEARANCE.
- 12. NEW 4" CONCRETE WALK OVER 4" COMPACTED BASE SLOPE AWAY FROM BUILDING. ALIGN FLUSH WITH ADJACENT WALK TO REMAIN. PROVIDE SAWCUTS AS INDICATED TO ALIGN WITH EXISTING, F.V.
- 13. NEW BALLISTIC INTERIOR TRANSACTION WINDOW, INSTALL NEW TRANSACTION COUNTERTOP. REFER TO WINDOW SCHEDULE AND INTERIOR ELEVATIONS.
- 14. NOT USED 15. INFILL OPENING W/ 3 5/8" METAL STUDS AT 16" O.C., 3" SOUND BATT INSULATION, AND [2] LAYERS OF 5/8" NOISE REDUCING GYPSUM BOARD.
- 16. INSTALL 3M BLACKOUT FILM ON INTERIOR FACE OF EXISTING GLAZING SYSTEM. REFER TO B/A1.1.
- 17. INSTALL NEW LINTEL AT NEW DOOR OPENING. REFER TO DETAIL A/A5.1. - PROVIDE GYP. BOARD RETURNS AT NEW H.M. DOOR FRAME.
- 18. PROVIDE 3/4" THICK 4'x4' FRT PLYWOOD BACK BOARD FOR IT
- EQUIPMENT. COORD. MOUNTING LOCATION WITH OWNER. 19. CUT / PATCH EXIST GYP. BOARD TO ALLOW FOR INSTALL OF FRT
- BLOCKING FOR WALL MOUNTED SHELVING AT EXISTING WALLS, TYP. 20. NOT USED
- 21. INFILL OPENING W/ 3 5/8" METAL STUDS AT 16" O.C. W/ 5/8" GYPSUM BOARD. 22. INSTALL NEW HANDRAIL AT THIS LOCATION. REFER TO TYP. DETAILS ON
- SHEET A1.3. 23. REINSTALL SALVAGED TRASH / RECYCLE RECEPTACLES AT THIS
- LOCATION. COORDINATE WITH OWNER.
- 24. ABANDON FLUSH VALVES, REFER TO PLUMBING DRAWINGS. PATCH /REPAIR WALL AS REQUIRED BY NEW WORK / FINISHES. 25. INFILL EXISTING ACCESS PANEL OPENING IN EXISTING MASONRY WALL
- W/ GYPSUM BOARD OVER. MATCH ADJACENT CONSTRUCTION. 26. INSTALL NEW STAINLESS STEEL COVER PLATE AT AREA OF ADA BUTTON REMOVAL TO CONCEAL EXISTING BOX.
- 27. NEW ROOF OVERFLOW OUTLET PROVIDE LAMBS TONGUE FLANGE 28. REPAIR / PATCH EXISTING WALL AT AREA OF PLUMBING DEMO AS REQUIRED FOR LIKE NEW APPEARANCE. INSTALL NEW FRP TO 4' AFF AT MOP SINK.

![](_page_19_Figure_49.jpeg)

![](_page_19_Figure_50.jpeg)

![](_page_19_Figure_51.jpeg)

![](_page_19_Picture_65.jpeg)

![](_page_19_Picture_66.jpeg)

![](_page_19_Figure_67.jpeg)

![](_page_19_Figure_69.jpeg)

![](_page_19_Picture_70.jpeg)

![](_page_19_Picture_71.jpeg)

![](_page_20_Figure_1.jpeg)

### \* NOT ALL NOTES MAY BE USED ON THIS SHEET

- **#** NEW CONSTRUCTION KEY NOTES 1. INSTALL NEW BALLISTIC WALL LINING AND GYP. BOARD OVER EXISTING
- FRAMING. REFER TO WALL TYPES 2. REMOVE EXISTING INSTALL NEW LIT BOLLARDS / CONCRETE BASE. INTENT IS TO REUSE EXISTING LOCATIONS WHERE APPLICABLE. REFER
- TO ARCHITECTURAL SITE PLAN AND ELECTRICAL DRAWINGS. 3. INSTALL NEW STOREFRONT SYSTEM, TYP.
- 4. INSTALL NEW 3 5/8" METAL STUD INFILL TO FRAME NEW DOOR. EXISTING MASONRY EDGE TO BE FURRED WITH NEW GYP. BOARD FOR
- UNIFORM APPEARANCE. 5. NEW CASEWORK, REFER TO INTERIOR ELEVATIONS / DETAILS. PROVIDE
- FRT BLOCKING. 6. EQUIPMENT BY OWNER, TYP. (PROVIDE BLOCKING FOR WALL MOUNTED
- ITEMS, TYP.) 7. REPAIR / PATCH EXISTING WALL AS REQUIRED BY DEMOLITION SCARS
- FOR LIKE NEW APPEARANCE. 8. INSTALL TOILET / URINAL PARTITION WALLS. REFER TO INTERIOR
- ELEVATIONS. 9. INFILL OPENING IN METAL STUD WALL. MATCH IN LIKE KIND / FINISH
- FLUSH TO PROVIDE A UNIFORM FINISH.
- 10. INSTALL NEW SEMI RECESSED FIRE EXTINGUISHER CABINET. COORDINATE FINAL LOCATION WITH FIRE DEPARTMENT AS APPLICABLE.
- 11. REPAIR / PATCH CONCRETE FLOOR AT AREA OF PLUMBING DEMO AS REQUIRED FOR LIKE NEW APPEARANCE.
- 12. NEW 4" CONCRETE WALK OVER 4" COMPACTED BASE SLOPE AWAY FROM BUILDING. ALIGN FLUSH WITH ADJACENT WALK TO REMAIN. PROVIDE SAWCUTS AS INDICATED TO ALIGN WITH EXISTING, F.V. 13. NEW BALLISTIC INTERIOR TRANSACTION WINDOW, INSTALL NEW
- TRANSACTION COUNTERTOP. REFER TO WINDOW SCHEDULE AND INTERIOR ELEVATIONS. 14. NOT USED
- 15. INFILL OPENING W/ 3 5/8" METAL STUDS AT 16" O.C., 3" SOUND BATT INSULATION, AND [2] LAYERS OF 5/8" NOISE REDUCING GYPSUM BOARD. 16. INSTALL 3M BLACKOUT FILM ON INTERIOR FACE OF EXISTING GLAZING
- SYSTEM. REFER TO B/A1.1. 17. INSTALL NEW LINTEL AT NEW DOOR OPENING. REFER TO DETAIL A/A5.1.
- PROVIDE GYP. BOARD RETURNS AT NEW H.M. DOOR FRAME.
- 18. PROVIDE 3/4" THICK 4'x4' FRT PLYWOOD BACK BOARD FOR IT EQUIPMENT. COORD. MOUNTING LOCATION WITH OWNER.
- 19. CUT / PATCH EXIST GYP. BOARD TO ALLOW FOR INSTALL OF FRT BLOCKING FOR WALL MOUNTED SHELVING AT EXISTING WALLS, TYP.
- 20. NOT USED 21. INFILL OPENING W/ 3 5/8" METAL STUDS AT 16" O.C. W/ 5/8" GYPSUM
- BOARD. 22. INSTALL NEW HANDRAIL AT THIS LOCATION. REFER TO TYP. DETAILS ON SHEET A1.3.
- 23. REINSTALL SALVAGED TRASH / RECYCLE RECEPTACLES AT THIS LOCATION. COORDINATE WITH OWNER.
- 24. ABANDON FLUSH VALVES, REFER TO PLUMBING DRAWINGS. PATCH
- /REPAIR WALL AS REQUIRED BY NEW WORK / FINISHES. 25. INFILL EXISTING ACCESS PANEL OPENING IN EXISTING MASONRY WALL W/ GYPSUM BOARD OVER. MATCH ADJACENT CONSTRUCTION.
- 26. INSTALL NEW STAINLESS STEEL COVER PLATE AT AREA OF ADA BUTTON REMOVAL TO CONCEAL EXISTING BOX.
- 27. NEW ROOF OVERFLOW OUTLET PROVIDE LAMBS TONGUE FLANGE 28. REPAIR / PATCH EXISTING WALL AT AREA OF PLUMBING DEMO AS REQUIRED FOR LIKE NEW APPEARANCE. INSTALL NEW FRP TO 4' AFF AT MOP SINK.

![](_page_20_Figure_30.jpeg)

SCALE: NTS

![](_page_20_Picture_45.jpeg)

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![](_page_20_Figure_46.jpeg)

HATCH INDICATES NO SCOPE DEPICTED FOR PLAN SPECIFIC DISCIPLINE. REFER TO OTHER PLANS FOR POTENTIAL SCOPE IN OTHER DISCIPLINES.

![](_page_20_Figure_48.jpeg)

A1.2

![](_page_20_Picture_49.jpeg)

![](_page_21_Picture_1.jpeg)

EXISTING RAILING REFERENCE

![](_page_21_Picture_3.jpeg)

![](_page_21_Figure_4.jpeg)

![](_page_21_Picture_5.jpeg)

![](_page_21_Figure_8.jpeg)

RAMP RAIL SECTION

### \* NOT ALL NOTES MAY BE USED ON THIS SHEET **#** NEW CONSTRUCTION KEY NOTES

- 1. INSTALL NEW BALLISTIC WALL LINING AND GYP. BOARD OVER EXISTING FRAMING. REFER TO WALL TYPES 2. REMOVE EXISTING INSTALL NEW LIT BOLLARDS / CONCRETE BASE.
- INTENT IS TO REUSE EXISTING LOCATIONS WHERE APPLICABLE. REFER TO ARCHITECTURAL SITE PLAN AND ELECTRICAL DRAWINGS. 3. INSTALL NEW STOREFRONT SYSTEM, TYP.
- 4. INSTALL NEW 3 5/8" METAL STUD INFILL TO FRAME NEW DOOR. EXISTING MASONRY EDGE TO BE FURRED WITH NEW GYP. BOARD FOR
- UNIFORM APPEARANCE. 5. NEW CASEWORK, REFER TO INTERIOR ELEVATIONS / DETAILS. PROVIDE
- FRT BLOCKING. 6. EQUIPMENT BY OWNER, TYP. (PROVIDE BLOCKING FOR WALL MOUNTED
- ITEMS, TYP.) 7. REPAIR / PATCH EXISTING WALL AS REQUIRED BY DEMOLITION SCARS
- FOR LIKE NEW APPEARANCE. 8. INSTALL TOILET / URINAL PARTITION WALLS. REFER TO INTERIOR
- ELEVATIONS.
- 9. INFILL OPENING IN METAL STUD WALL. MATCH IN LIKE KIND / FINISH FLUSH TO PROVIDE A UNIFORM FINISH.
- 10. INSTALL NEW SEMI RECESSED FIRE EXTINGUISHER CABINET. COORDINATE FINAL LOCATION WITH FIRE DEPARTMENT AS APPLICABLE.
- 11. REPAIR / PATCH CONCRETE FLOOR AT AREA OF PLUMBING DEMO AS REQUIRED FOR LIKE NEW APPEARANCE.
- 12. NEW 4" CONCRETE WALK OVER 4" COMPACTED BASE SLOPE AWAY FROM BUILDING. ALIGN FLUSH WITH ADJACENT WALK TO REMAIN. PROVIDE SAWCUTS AS INDICATED TO ALIGN WITH EXISTING, F.V. 13. NEW BALLISTIC INTERIOR TRANSACTION WINDOW, INSTALL NEW
- TRANSACTION COUNTERTOP. REFER TO WINDOW SCHEDULE AND INTERIOR ELEVATIONS. 14. NOT USED
- 15. INFILL OPENING W/ 3 5/8" METAL STUDS AT 16" O.C., 3" SOUND BATT INSULATION, AND [2] LAYERS OF 5/8" NOISE REDUCING GYPSUM BOARD.
- 16. INSTALL 3M BLACKOUT FILM ON INTERIOR FACE OF EXISTING GLAZING SYSTEM. REFER TO B/A1.1.
- 17. INSTALL NEW LINTEL AT NEW DOOR OPENING. REFER TO DETAIL A/A5.1. - PROVIDE GYP. BOARD RETURNS AT NEW H.M. DOOR FRAME.
- 18. PROVIDE 3/4" THICK 4'x4' FRT PLYWOOD BACK BOARD FOR IT EQUIPMENT. COORD. MOUNTING LOCATION WITH OWNER.
- 19. CUT / PATCH EXIST GYP. BOARD TO ALLOW FOR INSTALL OF FRT
- BLOCKING FOR WALL MOUNTED SHELVING AT EXISTING WALLS, TYP. 20. NOT USED
- 21. INFILL OPENING W/ 3 5/8" METAL STUDS AT 16" O.C. W/ 5/8" GYPSUM BOARD. 22. INSTALL NEW HANDRAIL AT THIS LOCATION. REFER TO TYP. DETAILS ON
- SHEET A1.3. 23. REINSTALL SALVAGED TRASH / RECYCLE RECEPTACLES AT THIS
- LOCATION. COORDINATE WITH OWNER.
- 24. ABANDON FLUSH VALVES, REFER TO PLUMBING DRAWINGS. PATCH /REPAIR WALL AS REQUIRED BY NEW WORK / FINISHES.
- 25. INFILL EXISTING ACCESS PANEL OPENING IN EXISTING MASONRY WALL W/ GYPSUM BOARD OVER. MATCH ADJACENT CONSTRUCTION.
- 26. INSTALL NEW STAINLESS STEEL COVER PLATE AT AREA OF ADA BUTTON REMOVAL TO CONCEAL EXISTING BOX. 27. NEW ROOF OVERFLOW OUTLET - PROVIDE LAMBS TONGUE FLANGE
- 28. REPAIR / PATCH EXISTING WALL AT AREA OF PLUMBING DEMO AS REQUIRED FOR LIKE NEW APPEARANCE. INSTALL NEW FRP TO 4' AFF AT MOP SINK.

AREA

KEY PLAN

SCALE: NTS

FIRST FLOOR

AREA D

AREA B

AREA C

![](_page_21_Picture_51.jpeg)

![](_page_21_Picture_52.jpeg)

![](_page_21_Figure_53.jpeg)

HATCH INDICATES NO SCOPE DEPICTED FOR PLAN SPECIFIC DISCIPLINE. REFER TO OTHER PLANS FOR POTENTIAL SCOPE IN OTHER DISCIPLINES.

![](_page_21_Figure_55.jpeg)

![](_page_21_Figure_56.jpeg)

![](_page_21_Figure_57.jpeg)

![](_page_22_Figure_1.jpeg)

![](_page_22_Picture_17.jpeg)

![](_page_22_Picture_18.jpeg)

![](_page_22_Figure_19.jpeg)

![](_page_22_Figure_21.jpeg)

![](_page_22_Picture_22.jpeg)

![](_page_23_Picture_1.jpeg)

![](_page_23_Picture_2.jpeg)

![](_page_23_Picture_3.jpeg)

![](_page_23_Figure_4.jpeg)

![](_page_23_Picture_6.jpeg)

N

![](_page_23_Picture_7.jpeg)

![](_page_23_Picture_8.jpeg)

![](_page_24_Figure_0.jpeg)

![](_page_24_Picture_2.jpeg)

![](_page_24_Picture_4.jpeg)

![](_page_24_Figure_5.jpeg)

![](_page_24_Figure_7.jpeg)

![](_page_24_Picture_8.jpeg)

BASEMENT

![](_page_25_Figure_0.jpeg)

### REFER TO G1.3 FOR WALL TYPES

![](_page_25_Picture_2.jpeg)

![](_page_25_Figure_5.jpeg)

![](_page_25_Figure_6.jpeg)

![](_page_25_Picture_7.jpeg)

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![](_page_26_Figure_0.jpeg)

![](_page_26_Figure_3.jpeg)

 $( \mathsf{T} )$ 

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![](_page_26_Figure_4.jpeg)

Project Number

![](_page_26_Figure_6.jpeg)

![](_page_26_Picture_7.jpeg)

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### REFLECTED CEILING GENERAL NOTES

- 1. REFER TO WALL TYPES ON FLOOR PLAN. 2. REFER TO PLAN FOR CEILING HEIGHTS, TYP. 3. COORDINATE THE ACOUSTICAL TILE CEILING LAYOUT AND
- ORIENTATION WITH THE ELECTRICAL/LIGHTING/FIRE SUPPRESSION DRAWINGS AND HVAC SUPPLY / RETURN DIFFUSER LOCATIONS. COORDINATE CONFLICTS WITH THE ARCHITECT. 4. ANY LIGHTING INDICATED ON THE REFLECTED CEILING PLAN AND
- ELSEWHERE ON THE ARCHITECTURAL DRAWINGS SHALL BE COORDINATED WITH THE ELECTRICAL DRAWINGS. ELECTRICAL AND MECHANICAL DRAWINGS TAKE PRECEDENCE OVER THE ARCHITECTURAL DRAWINGS.
- 5. COORDINATE LIGHT FIXTURES TO BE CONNECTED TO EMERGENCY LIGHTING CIRCUIT.
- 6. COORDINATE ALL SWITCHING WITH ELECTRICAL DRAWINGS. COORDINATE REQUIRED SWITCH LOCATIONS.
- 7. MODIFY EX. FIRE SPRINKLER SYSTEM TO SUIT LAYOUT DELEGATED DESIGN - COORD. WITH FP1.1 THRU FP2.2
- 8. REFER TO H1-1 FOR REQUIRED ABOVE CEILING WALL PENETRATIONS FOR PLENUM RETURN

REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION

![](_page_27_Figure_9.jpeg)

### \* NOT ALL NOTES MAY BE USED ON THIS SHEET **#** REFLECTED CEILING PLAN KEY NOTES 1. INSTALL NEW ACOUSTICAL TILE CEILING [ATC-1] AT HEIGHT INDICATED. 2. INSTALL NEW GYPSUM BOARD BULKHEAD AT HEIGHT INDICATED. 3. CEILING MOUNTED A/C CASSETTE. REFER TO MECHANICAL DRAWINGS 4. EXISTING ATC. REPAIR AS REQUIRED BY PROPOSED WORK. 5. PROVIDE COVER PLATE/ACCESS PANEL TO CONCEAL ABANDONED OPENING. 6. INSTALL NEW ACCESS PANEL AT THIS LOCATION. 7. INSTALL NEW CEILING AS REQUIRED BY NEW WORK AT AREA OF NEW DOOR INSTALL. MATCH EXISTING IN LIKE KIND. 8. INSTALL NEW METAL STUD CEILING FRAMING W/ GYP OVER. ALIGN WITH ADJACENT CONSTRUCTION FOR SMOOTH TRANSITION. 9. APPROXIMATE LOCATION OF NEW RTU ABOVE. COORDINATE WITH

- MECHANICAL DRAWINGS. 10. INSTALL NEW GYPSUM BOARD CEILING OVER METAL STUD FRAMING AT
- HEIGHT INDICATED.
- 11. EXISTING TO REMAIN NO WORK UNLESS NOTED OTHERWISE. 12. INSTALL NEW GYPSUM BOARD BULKHEAD AT HEIGHT INDICATED. REFER
- TO SECTION G/A3.4.
- 13. PATCH / REPAIR EXISTING GYPSUM BOARD AT AREA OF WALL REMOVAL. 14. EXTEND EXISTING ACOUSTICAL TILE CEILING TO MEET NEW WALL.
- INSTALL NEW WALL MOLD, ALIGN WITH EXISTING
- 15. PATCH / REPAIR EXISTING GYPSUM BOARD AT AREAS OF LIGHTING MODIFICATIONS
- 16. REPLACE CEILING TILES AS REQUIRED BY NEW LIGHTING LAYOUT. REFER TO ELECTRICAL DRAWINGS.
- 17. INSTALL BATT INSULATION ABOVE EXISTING CEILING GRID. REMOVE AND REINSTALL TILES AS REQUIRED BY NEW WORK.
- 18. REPAIR CEILING AS REQUIRED THIS AREA.

### SYMBOL LEGEND

	ACOUSTIC TILE CEILING, HEIGHT AS INDICATED
O N N	2X4/2X2 LIGHT FIXTURE - REFER TO ELEC. DRAWINGS N=NEW, E=EXISTING, R=RELOCATED
0	RECESSED CAN LT. FIXTURE REFER TO ELECTRICAL DRAWINGS
·	2' / 4' SURFACE MOUNT STRIP LIGHT FIXTURE REFER TO ELECTRICAL DRAWINGS
	SURFACE MOUNT LIGHT FIXTURE REFER TO ELECTRICAL DRAWINGS
	COVE LIGHT FIXTURE REFER TO ELECTRICAL DRAWINGS
	PENDANT LIGHT FIXTURE REFER TO ELECTRICAL DRAWINGS
NL	NIGHT LIGHT - REFER TO ELEC. DRAWINGS
$ \begin{array}{c} \bullet \otimes \bullet & \otimes \\ \bullet & \bullet \\ \bullet $	EXIT SIGN / EMERGENCY LIGHT REFER TO ELECTRICAL DRAWINGS
	HVAC DIFFUSERS, REFER TO MECHANICAL DWG. N=NEW, E=EXISTING, R=RELOCATED
$\bigcirc$	EXHAUST FAN - VENT DIRECT TO EXTERIOR - REFER TO HVAC DRAWINGS
AC	CEILING MOUNTED MINI-SPLIT A/C UNIT REFER TO HVAC DRAWINGS
	EXISTING PENDANT LIGHT REFER TO ELECTRICAL DRAWINGS
SP	EXISTING CEILING MOUNTED SPEAKER REFER TO ELECTRICAL DRAWINGS

![](_page_27_Picture_23.jpeg)

![](_page_27_Figure_24.jpeg)

![](_page_27_Figure_25.jpeg)

![](_page_27_Picture_26.jpeg)

![](_page_27_Picture_27.jpeg)

![](_page_27_Picture_28.jpeg)

![](_page_27_Figure_29.jpeg)

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![](_page_27_Picture_31.jpeg)

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### REFLECTED CEILING GENERAL NOTES SEE SHEET A1.9 FOR GENERAL NOTES

![](_page_28_Figure_1.jpeg)

![](_page_28_Figure_2.jpeg)

![](_page_28_Picture_3.jpeg)

![](_page_28_Figure_5.jpeg)

![](_page_28_Figure_6.jpeg)

![](_page_28_Figure_7.jpeg)

![](_page_28_Figure_9.jpeg)

![](_page_28_Picture_10.jpeg)

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### REFLECTED CEILING GENERAL NOTES SEE SHEET A1.9 FOR GENERAL NOTES

![](_page_29_Figure_1.jpeg)

![](_page_29_Picture_2.jpeg)

0 3 6

SCALE: 3/16" = 1'-0"

### \* NOT ALL NOTES MAY BE USED ON THIS SHEET **#** REFLECTED CEILING PLAN KEY NOTES 1. INSTALL NEW ACOUSTICAL TILE CEILING [ATC-1] AT HEIGHT INDICATED.

- 2. INSTALL NEW GYPSUM BOARD BULKHEAD AT HEIGHT INDICATED. 3. CEILING MOUNTED A/C CASSETTE. REFER TO MECHANICAL DRAWINGS
- 4. EXISTING ATC. REPAIR AS REQUIRED BY PROPOSED WORK. 5. PROVIDE COVER PLATE/ACCESS PANEL TO CONCEAL ABANDONED
- OPENING. 6. INSTALL NEW ACCESS PANEL AT THIS LOCATION.
- 7. INSTALL NEW CEILING AS REQUIRED BY NEW WORK AT AREA OF NEW
- DOOR INSTALL. MATCH EXISTING IN LIKE KIND. 8. INSTALL NEW METAL STUD CEILING FRAMING W/ GYP OVER. ALIGN WITH
- ADJACENT CONSTRUCTION FOR SMOOTH TRANSITION. 9. APPROXIMATE LOCATION OF NEW RTU ABOVE. COORDINATE WITH
- MECHANICAL DRAWINGS.
- 10. INSTALL NEW GYPSUM BOARD CEILING OVER METAL STUD FRAMING AT HEIGHT INDICATED.
- 11. EXISTING TO REMAIN NO WORK UNLESS NOTED OTHERWISE.
- 12. INSTALL NEW GYPSUM BOARD BULKHEAD AT HEIGHT INDICATED. REFER TO SECTION G/A3.4.
- 13. PATCH / REPAIR EXISTING GYPSUM BOARD AT AREA OF WALL REMOVAL.
- 14. EXTEND EXISTING ACOUSTICAL TILE CEILING TO MEET NEW WALL. INSTALL NEW WALL MOLD, ALIGN WITH EXISTING
- 15. PATCH / REPAIR EXISTING GYPSUM BOARD AT AREAS OF LIGHTING MODIFICATIONS
- 16. REPLACE CEILING TILES AS REQUIRED BY NEW LIGHTING LAYOUT.
- REFER TO ELECTRICAL DRAWINGS. 17. INSTALL BATT INSULATION ABOVE EXISTING CEILING GRID. REMOVE
- AND REINSTALL TILES AS REQUIRED BY NEW WORK. 18. REPAIR CEILING AS REQUIRED THIS AREA.

### SYMBOL LEGEND

	ACOUSTIC TILE CEILING, HEIGHT AS INDICATED
O N N	2X4/2X2 LIGHT FIXTURE - REFER TO ELEC. DRAWINGS N=NEW, E=EXISTING, R=RELOCATED
0	RECESSED CAN LT. FIXTURE REFER TO ELECTRICAL DRAWINGS
	2' / 4' SURFACE MOUNT STRIP LIGHT FIXTURE REFER TO ELECTRICAL DRAWINGS
	SURFACE MOUNT LIGHT FIXTURE REFER TO ELECTRICAL DRAWINGS
	COVE LIGHT FIXTURE REFER TO ELECTRICAL DRAWINGS
	PENDANT LIGHT FIXTURE REFER TO ELECTRICAL DRAWINGS
NL	NIGHT LIGHT - REFER TO ELEC. DRAWINGS
$\begin{array}{c} \bullet \otimes \bullet & \otimes \\ & \bullet & & \\ & & \bullet & & \\ & \bullet & & & \\ & \bullet & & \\ & \bullet & & \\ & \bullet & & & \\ & \bullet & & \\ & \bullet & & \\ & \bullet & & & &$	EXIT SIGN / EMERGENCY LIGHT REFER TO ELECTRICAL DRAWINGS
	HVAC DIFFUSERS, REFER TO MECHANICAL DWG. N=NEW, E=EXISTING, R=RELOCATED
$\bigcirc$	EXHAUST FAN - VENT DIRECT TO EXTERIOR - REFER TO HVAC DRAWINGS
AC	CEILING MOUNTED MINI-SPLIT A/C UNIT REFER TO HVAC DRAWINGS
	EXISTING PENDANT LIGHT REFER TO ELECTRICAL DRAWINGS
SP	EXISTING CEILING MOUNTED SPEAKER REFER TO ELECTRICAL DRAWINGS

![](_page_29_Picture_24.jpeg)

HATCH INDICATES NO SCOPE DEPICTED FOR PLAN SPECIFIC DISCIPLINE. REFER TO OTHER PLANS FOR POTENTIAL SCOPE IN OTHER DISCIPLINES.

![](_page_29_Figure_26.jpeg)

![](_page_29_Figure_27.jpeg)

![](_page_29_Figure_28.jpeg)

![](_page_29_Figure_29.jpeg)

![](_page_29_Figure_31.jpeg)

![](_page_29_Picture_32.jpeg)

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## REFLECTED CEILING GENERAL NOTES

![](_page_30_Figure_1.jpeg)

A BASEMENT REFLECTED CEIL SCALE: 3/16" = 1'-0"

<ul> <li>HEIGHT INDICATED.</li> <li>11. EXISTING TO REMAIN - NO WORK UNLESS</li> <li>12. INSTALL NEW GYPSUM BOARD BULKHEA TO SECTION G/A3.4.</li> <li>13. PATCH / REPAIR EXISTING GYPSUM BOA</li> <li>14. EXTEND EXISTING ACOUSTICAL TILE CE INSTALL NEW WALL MOLD, ALIGN WITH I</li> <li>15. PATCH / REPAIR EXISTING GYPSUM BOA MODIFICATIONS</li> <li>16. REPLACE CEILING TILES AS REQUIRED IN REFER TO ELECTRICAL DRAWINGS.</li> <li>17. INSTALL BATT INSULATION ABOVE EXIST AND REINSTALL TILES AS REQUIRED BY</li> <li>18. REPAIR CEILING AS REQUIRED THIS ARI</li> <li>19. REPAIR CEILING AS REQUIRED THIS ARI</li> </ul>	BY NEW LIGHTING LAYOUT. STING CEILING GRID. REMOVE Y NEW WORK. REA.
	LING, HEIGHT AS INDICATED
	URE - REFER TO ELEC. DRAWINGS C, R=RELOCATED FIXTURE CAL DRAWINGS IGHT FIXTURE CAL DRAWINGS RECAL DRAWINGS RECAL DRAWINGS CAL DRAWINGS CTURE CAL DRAWINGS CTURE CAL DRAWINGS CAL DRAWINGS REFER TO MECHANICAL DWG. CAL DRAWINGS REFER TO MECHANICAL DWG. CAL DRAWINGS IT DIRECT TO EXTERIOR - MINI-SPLIT A/C UNIT CAL DRAWINGS COUNTED SPEAKER CAL DRAWINGS
HATCH INDICATES NO SCOPE D REFER TO OTHER PLANS FOR P	DEPICTED FOR PLAN SPECIFIC DISCIPLI POTENTIAL SCOPE IN OTHER DISCIPLIN
	FIRST FLOOR
LING PLAN - 'AREA D' 0 3 6 12 NTS KEY PLAN SCALE: NTS	

![](_page_30_Picture_5.jpeg)

BASEMENT

'Area D' Sheet Number

Project Number		
2023-	215	
Date		
Augu	st 30, 2024	
Date	Issue	
07.03.24	90% CD	
08.07.24	Final Review	
08.30.24	Bid/Construction Set	
Sheet Tit	le	
Baser Ceilin 'Area	nent Reflected g Plan ס'	

FIC DISCIPLINE. ER DISCIPLINES.

![](_page_30_Figure_9.jpeg)

![](_page_30_Picture_10.jpeg)

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### DRAWING KEY

#	FLOOR FINISH FINISH # SPEC.	
#	FLOOR FINISH LOCATION OF FLOORING TRANSITION FLOOR FINISH	CENTER UNDER DOOR AS APPLICABLE
#	WALL FINISH TYPE WALL FINISH # SPECIFICATION	

### GENERAL NOTES

- 1. LVT / TILE TRANSITION STRIPS FROM CORRIDOR INTO THE RESTROOMS TO BE STAINLESS STEEL. [SLOPED SCHLUTER STRIP. TYP.] REFER TO TRANSITION DETAIL A5.1.
- 2. LVT/CARPET TRANSITION STRIPS TO BE VINYL TRANSITION STRIPS TO MATCH ADJACENT BASE COLOR/FINISH.
- 3. SUBMIT ALL FINISHES/SAMPLES TO ARCHITECT & OWNER FOR FINAL APPROVAL PRIOR TO ORDERING.
- INSTALL ALL FLOORING USING THE TOOLS, ADHESIVES, INSTALLATION 4. AND SEAMING METHODS RECOMMENDED BY MANUFACTURER'S INSTRUCTIONS.
- PROVIDE SMOOTH AND LEVEL TRANSITION BETWEEN ADJACENT FLOORING SURFACES. CONTRACTOR TO VERIFY AND CONFIRM THAT APPROPRIATE TRANSITIONS ARE USED AT THE INTENDED LOCATIONS. ALL TRANSITIONS SHALL MEET APPLICABLE ADA REQUIREMENTS.
- USE MANUFACTURER'S RECOMMENDED ADHESIVES THAT ARE NON-TOXIC. LOW ODOR AND SOLVENT-FREE ADHESIVES SHALL BE ANTIMICROBIAL WITH NO HAZARDOUS VAPORS AND CONTAIN NO CARCINOGENIC MATERIAL PER CURRENT OSHA REGULATIONS.
- 7. ALL FINISH PRODUCTS SHALL BE FROM THE SAME RESPECTIVE DYE LOT FOR THAT MATERIAL. PROVIDE DOCUMENTATION TO ARCHITECT / OWNER UPON REQUEST.
- 8. ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND REGULATIONS AND AUTHORITIES HAVING JURISDICTION.
- COMPLY WITH APPLICABLE MANUFACTURER'S RECOMMENDATIONS FOR THE TYPE OF INSTALLATION FOR MATERIALS AND SYSTEMS. INSTALL TO MEET APPLICABLE MANUFACTURER'S WARRANTY REQUIREMENTS.
- 10. COORDINATE FLOOR PREP REQUIRED FOR PROPOSED FLOOR FINISHES.
- 11. PREP, REPAIR, AND PAINT ALL WALL AND CEILING FINISHES AS REQUIRED BY NEW WORK
- 12. ALL PAINTS TO BE NO-VOC IN NATURE. ALL PAINTS TO BE PURCHASED/ MANUFACTURED AS SPECIFIED [IE- SHERWIN WILLIAMS PAINTS SHALL BE PURCHASED FROM SHERWIN WILLIAMS SUPPLIERS .. ETC].
- 13. PAINT FIRE EXTINGUISHER CABINETS A SEMI-GLOSS FINISH TO MATCH ADJACENT WALL FINISH UNLESS OTHERWISE NOTED.
- 14. PAINT ACCESS PANELS A SEMI-GLOSS FINISH TO MATCH ADJACENT WALL FINISH UNLESS OTHERWISE NOTED.
- 15. PAINT ALL GYPSUM BOARD CEILINGS. [PNT-10]
- 16. PAINT ALL GYPSUM BOARD SURFACES NOT INDICATED ON THE PLANS PNT-1 UNLESS OTHERWISE NOTED.
- 17. PAINT FACE OF BULKHEAD TO MATCH BELOW WALL FINISH. UNDERSIDE OF BULKHEAD TO MATCH CEILING FINISH.
- 18. PAINT WALL FROM CORNER TO CORNER, FULL HEIGHT OF WALL AT AREAS OF GYPSUM BOARD REPAIR.
- 19. PAINT ALL NEW AND EXISTING H.M. DOOR FRAMES. REFER TO DOOR SCHEDULE FOR COLORS
- 20. AT AREAS OF NEW PAINT, REMOVE / REINSTALL COVER PLATES AT ELECTRICAL DEVICES.

![](_page_31_Figure_23.jpeg)

![](_page_31_Figure_24.jpeg)

### **#** FINISH PLAN KEY NOTES

- THIS ROOM/SPACE TO BE PAINTED BY OWNER AS PART OF ALTERNATE DEDUCT #1. REFER TO DETAIL B THIS SHEET FOR PLAN OF AREAS INCLUDED IN THIS ALTERNATE.
- 2. REPAIR CONCRETE FLOOR AFTER DEMOLITION OF EXISTING PLUMBING FIXTURES.
- 3. EXISTING STAINED WOOD CHAIR RAIL TO REMAIN. EXISTING WALL COVERING WAINSCOT BELOW TO REMAIN, NEW PAINT ABOVE AS

- SCHEDULED. REFER TO ELEVATION DETAIL C/A1.15.
- 4. REFER TO DETAIL C/A1.14 FOR ADDITIONAL STAIR FINISH INFORMATION PAINT ALL EXISTING H. M. DOOR FRAMES [ALL FACES] AS PART OF BASE BID. KEEP PAINTING OF DOOR FRAMES [ALL FACES] IN PROJECT IF OWNER ACCEPTS ALTERNATE DEDUCT #1.
- 6. EXISTING WALL COVERING FINISH TO REMAIN.

FINISH SPECIFICATIONS SEE SHEET G1.4 FOR FINISH SPECIFICATIONS

![](_page_31_Figure_36.jpeg)

![](_page_31_Figure_37.jpeg)

![](_page_31_Figure_38.jpeg)

PAINTED.

![](_page_31_Figure_40.jpeg)

![](_page_31_Figure_41.jpeg)

AREA D -

. .

KEY PLAN

SCALE: NTS

![](_page_31_Picture_42.jpeg)

BASEMENT

### Sheet Number A1.13

Proposed Finish Plan 'Area A'

Project N	Number
2023-	215
Date	
Augu	ıst 30, 2024
Date	Issue
07.03.24	90% CD
08.07.24	Final Review
08.30.24	Bid/Construction Set
Sheet Tit	le
Prope	sod Einish Plan

REFER TO OTHER PLANS FOR POTENTIAL SCOPE IN OTHER DISCIPLINES.

![](_page_31_Figure_47.jpeg)

![](_page_31_Picture_48.jpeg)

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![](_page_32_Figure_0.jpeg)

- THIS ROOM/SPACE TO BE PAINTED BY OWNER AS PART OF ALTERNATE

- BASE BID. KEEP PAINTING OF DOOR FRAMES [ALL FACES] IN PROJECT

#	FLOOR FINISH FINISH # SPEC.
	FLOOR FINISH LOCATION OF FLOORING TRANSITION FLOOR FINISH
#	WALL FINISH TYPE WALL FINISH # SPECIFICATION

![](_page_32_Picture_16.jpeg)

BASEMENT

Sheet Number A1.14

Proposed Finish Plan 'Area B'

Project N 2023-	Number 215
Date	
Augu	ist 30, 2024
Date	Issue
07.03.24	90% CD
08.07.24	Final Review
08.30.24	Bid/Construction Set
Sheet Tit	le

![](_page_32_Figure_21.jpeg)

![](_page_32_Picture_22.jpeg)

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![](_page_33_Figure_0.jpeg)

![](_page_33_Picture_1.jpeg)

### # FINISH PLAN KEY NOTES

- THIS ROOM/SPACE TO BE PAINTED BY OWNER AS PART OF ALTERNATE DEDUCT #1. REFER TO DETAIL B THIS SHEET FOR PLAN OF AREAS 1 INCLUDED IN THIS ALTERNATE.
- 2. REPAIR CONCRETE FLOOR AFTER DEMOLITION OF EXISTING PLUMBING FIXTURES.
- 3. EXISTING STAINED WOOD CHAIR RAIL TO REMAIN. EXISTING WALL COVERING WAINSCOT BELOW TO REMAIN, NEW PAINT ABOVE AS
- SCHEDULED. REFER TO ELEVATION DETAIL C/A1.15. 4. REFER TO DETAIL C/A1.14 FOR ADDITIONAL STAIR FINISH INFORMATION
- PAINT ALL EXISTING H. M. DOOR FRAMES [ALL FACES] AS PART OF 5. BASE BID. KEEP PAINTING OF DOOR FRAMES [ALL FACES] IN PROJECT IF OWNER ACCEPTS ALTERNATE DEDUCT #1.
- 6. EXISTING WALL COVERING FINISH TO REMAIN.

FINISH SPECIFICATIONS SEE SHEET G1.4 FOR FINISH SPECIFICATIONS

WHERE DRYWALL REPAIRS ARE REQUIRED BY NEW WORK - PAINT WALL CORNER TO CORNER REFER TO PLAN B FOR WALLS TO BE PAINTED BY OWNER. OWNER IS RESPONSIBLE FOR FURNITURE RELOCATION PRIOR TO START OF CARPET / BASE INSTALL

### DRAWING KEY

#	FLOOR FINISH FINISH # SPEC.
	FLOOR FINISH LOCATION OF FLOORING TRANSITION FLOOR FINISH
#	WALL FINISH TYPE WALL FINISH # SPECIFICATION

**GENERAL NOTES** SEE SHEET A1.13 FOR GENERAL NOTES

![](_page_33_Picture_16.jpeg)

HATCH INDICATES NO SCOPE DEPICTED FOR PLAN SPECIFIC DISCIPLINE. REFER TO OTHER PLANS FOR POTENTIAL SCOPE IN OTHER DISCIPLINES.

![](_page_33_Figure_19.jpeg)

![](_page_33_Picture_20.jpeg)

![](_page_33_Picture_21.jpeg)

Proposed Finish Plan 'Area C'

Project N 2023-	Number 215
Date	
Augu	ist 30, 2024
Date	Issue
07.03.24	90% CD
08.07.24	Final Review
08.30.24	Bid/Construction Set
Sheet Tit	le
Dropo	and Finish Plan

![](_page_33_Figure_25.jpeg)

![](_page_33_Picture_26.jpeg)

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![](_page_34_Picture_0.jpeg)

![](_page_34_Picture_1.jpeg)

### # FINISH PLAN KEY NOTES

- 1. THIS ROOM/SPACE TO BE PAINTED BY OWNER AS PART OF ALTERNATE DEDUCT #1. REFER TO DETAIL B THIS SHEET FOR PLAN OF AREAS INCLUDED IN THIS ALTERNATE.
- 2. REPAIR CONCRETE FLOOR AFTER DEMOLITION OF EXISTING PLUMBING FIXTURES.
- 3. EXISTING STAINED WOOD CHAIR RAIL TO REMAIN. EXISTING WALL COVERING WAINSCOT BELOW TO REMAIN, NEW PAINT ABOVE AS
- SCHEDULED. REFER TO ELEVATION DETAIL C/A1.15.
- 4. REFER TO DETAIL C/A1.14 FOR ADDITIONAL STAIR FINISH INFORMATION 5. PAINT ALL EXISTING H. M. DOOR FRAMES [ALL FACES] AS PART OF BASE BID. KEEP PAINTING OF DOOR FRAMES [ALL FACES] IN PROJECT IF OWNER ACCEPTS ALTERNATE DEDUCT #1.
- 6. EXISTING WALL COVERING FINISH TO REMAIN.

FINISH SPECIFICATIONS SEE SHEET G1.4 FOR FINISH SPECIFICATIONS

WHERE DRYWALL REPAIRS ARE REQUIRED BY NEW WORK - PAINT WALL CORNER TO CORNER

OWNER IS RESPONSIBLE FOR FURNITURE RELOCATION PRIOR TO START OF CARPET / BASE INSTALL

### DRAWING KEY

#	FLOOR FINISH FINISH # SPEC.
#	FLOOR FINISH LOCATION OF FLOORING TRANSITION FLOOR FINISH
#	WALL FINISH TYPE WALL FINISH # SPECIFICATION

**GENERAL NOTES** SEE SHEET A1.13 FOR GENERAL NOTES

![](_page_34_Figure_17.jpeg)

![](_page_34_Figure_18.jpeg)

![](_page_34_Figure_19.jpeg)

![](_page_34_Figure_20.jpeg)

![](_page_34_Figure_21.jpeg)

![](_page_34_Figure_22.jpeg)

![](_page_34_Figure_23.jpeg)

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![](_page_35_Figure_0.jpeg)

![](_page_35_Picture_3.jpeg)

2023-	215
Date	
Augu	ıst 30, 2024
Date	Issue
07.03.24	90% CD
08.07.24	Final Review
08.30.24	Bid/Construction Set
Sheet Tit	le
Roof	Plan

Project Number

![](_page_35_Figure_5.jpeg)

![](_page_35_Picture_6.jpeg)

![](_page_35_Picture_7.jpeg)

![](_page_35_Picture_8.jpeg)


- 8. EXISTING STANDING SEAM METAL ROOF SYSTEM TO REMAIN, UNLESS

# **#** NEW CONSTRUCTION KEY NOTES

- 2. NEW METAL PANELS. REFER TO MATERIAL DIAGRAM FOR SYSTEM TYPE AND COORDINATE WITH SECTIONS FOR ADDITIONAL INFORMATION
- 4. NEW METAL PANEL CANOPY SYSTEM. REFER TO MATERIAL DIAGRAM
- FOR SYSTEM TYPE AND COORDINATE WITH SECTIONS FOR ADDITIONAL 5. NEW ILLUMINATED SIGNAGE, BY OTHERS. COORDINATE WITH TO
- 6. LOCATION OF CURTAINWALL INFILL FRAMING. MATCH ADJACENT MATERIAL AND THICKNESS FOR A SMOOTH TRANSITION. INSTALL NEW

- 1. INSTALL WET SEAL PANEL SYSTEM PER MANUF. SPECS [MP-1]

IMPROVEMENTS. ALL COMPONENTS ON THIS SHEET SHALL BE EXCLUDED AS PART OF THIS ALTERNATE.



Project N	Number
2023-	215
Date	
Augu	ıst 30, 2024
Date	Issue
07.03.24	90% CD
08.07.24	Final Review
08.30.24	Bid/Construction Set
Sheet Tit	le
Exteri	or Elevations







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SCHAAF 14503

Jonathan Robert Schaaf #14503

Expiration Date 12/31/2025

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ALT DEDUCT 02: REMOVE EXTERIOR FACADE IMPROVEMENTS. ALL COMPONENTS ON THIS SHEET SHALL BE EXCLUDED AS PART OF THIS ALTERNATE



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Sheet Number A2.2









#### \* NOT ALL NOTES MAY BE USED ON THIS SHEET **INTERIOR ELEVATION KEY NOTES**

- PAINTED GYPSUM BOARD FINISH. PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT WET WALLS. REFER TO FINISHES PLAN.
- 2. DOOR/FRAME REFER TO DOOR SCHEDULE.
- 3. ACCESSIBLE WATER CLOSET. NOTE THAT LEVER SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.
- 4. PROVIDE 2x8 FRT BLOCKING WHERE REQ'D AT ALL TOILET ACCESSORIES, TYPICAL.
- 5. NOT USED
- 6. ACCESSIBLE WALL HUNG LAVATORY AND FAUCET.
- 7. SCHLUTER TILE END TRANSITION 8. DECORATIVE WALL BRACKETS [BASIS OF DESIGN: KNAPE AND VOGT
- DECORATIVE BRACKET RP-201RC-8BK] PROVIDE FRT BLOCKING IN WALL AS REQ'D 9. PLASTIC LAMINATE BASE / WALL CABINETS W/ ADJUSTABLE SHELVING,
- WHITE MELAMINE INTERIOR [PLAM-1] 10. 4" WIRE PULL
- 11. STAINLESS STEEL SINK/FAUCET. REFER TO PLUMBING DRAWINGS 12. PLASTIC LAMINATE COUNTERTOP AND 4" BACKSPLASH/ENDSPLASH
- [PLAM-2] 13. TOE KICK, BASE AS SCHEDULED
- 14. NOT USED
- 15. EQUIPMENT, BY OWNER 16. WALL BASE, AS SCHEDULED.
- 17. COUNTERTOP SUPPORT BRACKET, SPACE AT 48" MAX PROVIDE FRT BLOCKING IN WALL AS REQ'D. COORD. FINAL PLACEMENT WITH OWNER / EQUIPMENT 18. GFI RECEPTACLE AT 48" AFF. COORDINATE WITH ELECTRICAL
- DRAWINGS. 19. PLASTIC LAMINATE REMOVABLE PRIVACY PANEL [ADA] [PLAM-1]
- 20. FILLER/SCRIBE CUT TO FIT. PLASTIC LAMINATE TO MATCH CABINETS.
- 21. SOLID SURFACE COUNTER / WALL CAP [SS-1].
- 22. PLASTIC LAMINATE FINISHED END PANEL [PLAM-1] 23. BALLISTIC TRANSACTION WINDOW - REFER TO WINDOW SCHEDULE
- 24. FURNITURE, BY OWNER.
- 25. PLASTIC LAMINATE SHELVING UNIT ALL SURFACES PLAM-1
- 26. 3/4" TH. x 14" DEEP WHITE MELAMINE SHELVES ON ADJUSTABLE STANDARDS. SPACE STANDARDS @ 32" O.C. MAX.
- 27. WALL COVERING LOCATION, REFER TO FINISHES PLAN.
- 28. SOLID SURFACE COUNTERTOP W/ 4" BACKSPLASH [SS-1 U.N.O.].
- 29. NEW WALL MOUNTED URINAL SCREEN. 30. WALL TILE - 5/8" CEMENT BOARD IN LIEU OF GYP. BOARD AT TILE LOCATION. PROVIDE SCHLUTER TERMINATION BAR AT BASE AND TILE / GYP. TRANSITIONS
- TOILET ACCESSORY SCHEDULE REFER TO SHEET G1.4 FOR TOILET ACCESSORY SCHEDULE

31. NEW FLOOR SET TOILET PARTITION [TP-1]











PAINTED GYPSUM BOARD FINISH. PROVIDE MOISTURE RESISTANT

- GYPSUM BOARD AT WET WALLS. REFER TO FINISHES PLAN.
- 3. ACCESSIBLE WATER CLOSET. NOTE THAT LEVER SHALL BE LOCATED
- 4. PROVIDE 2x8 FRT BLOCKING WHERE REQ'D AT ALL TOILET
- 6. ACCESSIBLE WALL HUNG LAVATORY AND FAUCET.
- 8. DECORATIVE WALL BRACKETS [BASIS OF DESIGN: KNAPE AND VOGT
- DECORATIVE BRACKET RP-201RC-8BK] PROVIDE FRT BLOCKING IN 9. PLASTIC LAMINATE BASE / WALL CABINETS W/ ADJUSTABLE SHELVING,
- WHITE MELAMINE INTERIOR [PLAM-1]
- 11. STAINLESS STEEL SINK/FAUCET. REFER TO PLUMBING DRAWINGS 12. PLASTIC LAMINATE COUNTERTOP AND 4" BACKSPLASH/ENDSPLASH

- 17. COUNTERTOP SUPPORT BRACKET, SPACE AT 48" MAX PROVIDE FRT BLOCKING IN WALL AS REQ'D. COORD. FINAL PLACEMENT WITH 18. GFI RECEPTACLE AT 48" AFF. COORDINATE WITH ELECTRICAL
- 19. PLASTIC LAMINATE REMOVABLE PRIVACY PANEL [ADA] [PLAM-1]
- 20. FILLER/SCRIBE CUT TO FIT. PLASTIC LAMINATE TO MATCH CABINETS.
- 21. SOLID SURFACE COUNTER / WALL CAP [SS-1].
- 23. BALLISTIC TRANSACTION WINDOW REFER TO WINDOW SCHEDULE
- 25. PLASTIC LAMINATE SHELVING UNIT ALL SURFACES PLAM-1 26. 3/4" TH. x 14" DEEP WHITE MELAMINE SHELVES ON ADJUSTABLE
- STANDARDS. SPACE STANDARDS @ 32" O.C. MAX.
- 28. SOLID SURFACE COUNTERTOP W/ 4" BACKSPLASH [SS-1 U.N.O.].
- 29. NEW WALL MOUNTED URINAL SCREEN.
- 30. WALL TILE 5/8" CEMENT BOARD IN LIEU OF GYP. BOARD AT TILE LOCATION. PROVIDE SCHLUTER TERMINATION BAR AT BASE AND TILE /
- TOILET ACCESSORY SCHEDULE REFER TO SHEET G1.4 FOR TOILET













































Project Number

2023-215





JONATHAN

ROBERT







2023-215





JONATHAN

ROBERT

SCHAAF

14503

Jonathan Robert Schaaf #14503

Expiration Date 12/31/2025

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A4.3























Project Number





JONATHAN ROBERT SCHAAF

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3	THI ANI REC
4	WH AUX WH AUX TO APF
5	THI WH
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8



## SPRINKLER GENERAL NOTES

SPRINKLER SYSTEM DESIGN SHALL BE BASED ON LIGHT HAZARD REQUIREMENTS UNLESS OTHERWISE INDICATED. THE SPRINKLER SYSTEM IS MITED TO A MAXIMUM OF 225 SQ. FT. PER SPRINKLER, 1500 SQ. FT. AREA OF PERATION AND 165-DEGREE TEMPERATURE RATED HEAD. THE CONTRACTOR IALL VERIFY THE SAFETY MARGIN REQUIRED FOR WATER SUPPLY WITH THE CAL AUTHORITY HAVING JURISDICTION.

ONTRACTOR SHALL VERIFY ALL EXISTING SERVICES AND/OR ANY SERVICES STALLED UNDER SEPARATE CONTRACT BEFORE STARTING ANY WORK THAT Y PERTAIN TO THE SAME SERVICE.

HIS CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL HORIZONTAL ID VERTICAL PIPING WITH ALL OTHER TRADES AND SHIFT LOCATION WHERE QUIRED.

HEN THE CAPACITY OF TRAPPED SECTION OF PIPE IS (5) GALLONS OR LESS, IXILIARY DRAIN SHALL CONSIST OF A 1" NIPPLE AND CAP OR BRASS PLUG. HEN THE CAPACITY OF TRAPPED SECTION OF PIPE EXCEED (5) GALLONS, THE IXILIARY DRAIN SHALL CONSIST OF A 1" VALVE COMPLETE WITH FIXED PIPING COMBINATION DRAIN PIPING AT STANDPIPES WHICH SHALL DRAIN TO AN PROVED LOCATION.

IS CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING EXISTING SERVICES HEN NEW CONNECTIONS ARE MADE TO THE SAME.

PRINKLER CONTRACTOR SHALL PROVIDE WATER FLOW TEST AND SUBMIT SULTS TO THE ENGINEER. TEST RESULTS SHALL INDICATE TIME AND LOCATION OF TEST. THE FLOW RATE OF THE TEST SHALL EXCEED THE FLOW REQUIRED FOR THE SYSTEM BY A MINIMUM OF 50% UNLESS OTHERWISE APPROVED BY THE ENGINEER.

SEE ARCHITECTURAL DRAWINGS FOR NEW ANS MODIFIED CEILINGS.

SPRINKLER HEADS IN ROOMS 156A, 156B, AND 157 AREAS ARE DESIGNATED AS ANTI-LIGATURE AND THEY SHALL BE FLUSH, TIGHT FIT WITH THE CEILING SUITABLE FOR INSTITUTIONAL APPLICATION.

## SPRINKLER LEGEND

——E	EXISTING FIRE SPRINKLER LINE
0	EXISTING SPRINKLER - PENDENT TYPE
¤	EXISTING SPRINKLER - UPRIGHT TYPE
Y	SPRINKLER – SIDEWALL TYPE
r	EXISTING SPRINKLER TO BE REMOVED
ى ت	EXISTING SPRINKLER TO BE REMOVED
ο	NEW SPRINKLER - PENDENT TYPE
0	NEW SPRINKLER – INSTITUTIONAL TYPE
	HVAC DIFFUSERS SUPPLIED BY HVAC CONTRACTOR
<ul> <li>○</li> <li>○</li></ul>	LIGHTING FIXTURE SUPPLIED BY ELECTRICAL CONTRACTOR
	LIMITS OF WORK UNDER SPRINKLER CONTRACT
	LIMITS OF WORK UNDER SPRINKLER CONTRACT
$\langle 1 \rangle$	DESIGNATES REFERENCE TO SPRINKLER NOTES
123	ROOM NUMBER DESIGNATION

#### SPRINKLER - SHEET INDEX

FP1.1	SPRINKLER - LEGEND, NOTES, AND DEMOLITION PARTIAL BASEMENT FLOOF
	AREA D AND CATWALK AREA B
FP1.2	SPRINKLER - DEMOLITION PARTIAL FIRST FLOOR PLANS AREA A, AREA B AN

FP2.1 SPRINKLER - REVISED BASEMENT FLOOR PLAN AREA D SPRINKLER - REVISED PARTIAL FIRST FLOOR PLANS AREA A, AREA B, AND AREA C FP2.2

## ALTERNATE DEDUCTS

ALT DEDUCT 01 REMOVE INTERIOR PAINTING OF SELECTED AREAS OF THE BUILDING ALT DEDUCT 02

REMOVE EXTERIOR FAÇADE IMPROVEMENTS. EXISTING BUILDING ENVELOPE TO REMAIN

ALT DEDUCT 03 REMOVE INSTALLATION OF SPRAY FOAM INSULATION AT THE UNDERSIDE OF THE METAL ROOF DECK AT BUILDING AREA B ALT DEDUCT 04

REMOVE ALTERATIONS AT THE POLICE DEPARTMENT TOILET ROOMS [BUILDING AREA C]

ALT DEDUCT 05 REMOVE EXTERIOR SITE LIGHTING

COORDINATE WITH ARCHITECTURAL DRAWINGS / SPECIFICATIONS





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OR PLAN AND AREA C







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SPRINKLER – DE	EMOLITION		
PARTIAL	FIRST	FLOOR	PLAN
SCALE: 1/8"= 1'	-0"		

			EXISTING SPRINKLER TO BE REMOVED (TYPICAL)	-
	SPRINKLERS IN THIS AREA TO REMAIN PROVIDE NEW ESCUTCHEONS AS REQUIRED COORDINATE WITH GENERAL CONTRACTOR FOR REQUIREMENTS WITH THE NEW CEILING GRIDS			
	AND PADS. SEE ARCHITECTURAL DRAWINGS			
		$\begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} $		
	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$			
O.dwg			EXISTING SPRINKLER BE REMOVED (TYPICA	
Щ Ч				$\backslash$









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SPRINKLER – REVISED			
PARTIAL BASEMENT	FLOOR	PLAN	— 1
SCALE: 1/8"= 1'-0"			











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Sheet Number

FP2.1







NOTE A SUGGESTED SPRINKLER HEAD ARRANGEMENT IS SHOWN IN THIS VIEW TO ACCOMMODATE NEW CONSTRUCTION. CLOSELY COORDINATE NEW SPRINKLER PIPING WITH NEW DUCTWORK AND LIGHTING LAYOUTS IN FINISHED CEILING AREA,

VERIFY EXACT REQUIREMENTS AT JOB SITE.

SPRINKLER – REVISED PARTIAL FIRST FLOOR PLAN - AREA B AND AREA C SCALE: 1/8"= 1'-0"







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Sheet Number

FP2.2







# DRAIN SCHEDULE

OUTLET TY	PES	OPTIONS			OPTION	IS
A-NO HUB B-THREAD C-SIDE OUT	LET	A-F B-C C-S	ELANGE CLAMP DEVICE SEDIMENT BUC	КЕТ	J-HINGE K-SOLIE L-POLIS	ED COVER D TOP SHED NICKEL
TOP TYPES	3	D-EXTENSION E-DECK CLAMP			BRONZ	
A-NICKEL B B-POLISHE C-CAST IRC	RONZE D BRASS N	F-E G-1 H-[ I-S <sup>(</sup>	BEARING PAN IRAP PRIMER T DUCTILE GRATE QUARE GRATE	APPING		
REF.	J.R. SMITH SERIES NO.	OUT SIZE	LET <u>TYPE</u>	TOP <u>SIZE</u>	TYPE	OPTIONS
FD-1	2005	3	A	6	A	A,B,C,L
RD-1	1045	4	А	15	С	

NOTE: 1) PROVIDE A "TRAPSHIELD" SEAL AS MANUFACTURED BY SIOUX CHIEF, OR EQUAL BY RECTORSEAL, ON ALL FLOOR DRAINS TO MAINTAIN THE TRAP SEAL AS REQUIRED. 2) SELECTION BASED ON J.R. SMITH OR EQUAL BY ZURN OR SIOX CHIEF

## PLUMBING FIXTURE SCHEDULE

REF		DESCRIPTION	MTG HGT	SUPF HOT	PLIES COLD	WASTE	TRAP	VENT
A1	*	WATER CLOSET-FS-TANK-ADA SIDE FLUSH LEVER - LEFT			3/4	3	INT	1-1/2
A2	*	WATER CLOSET-FS-TANK-ADA SIDE FLUSH LEVER - RIGHT			3/4	3	INT	1-1/2
A3	*	WATER CLOSET-FS-FV-ADA MANUAL FLUSH VALVE - LEFT			1-1/4	4	INT	2
A4	*	WATER CLOSET-FS MANUAL FLUSH - RIGHT			1-1/4	4	INT	2
B1	*	URINAL-WH	24		3/4	2	INT	1-1/4
B2	*	URINAL-WH-ADA	17		3/4	2	INT	1-1/4
C1	*	LAVATORY-WH-ADA	34	1/2	1/2	1-1/2	1-1/2	1-1/4
C2	*	SINK - COUNTERTOP	COUNTER	1/2	1/2	1-1/2	1-1/2	1-1/4
C3	*	SINK - COUNTERTOP	COUNTER	1/2	1/2	1-1/2	1-1/2	1-1/4
E1		SERVICE BASIN-24 X 24		1/2	1/2	3	3	
(j)	<sup>&gt;</sup> N	OTES★ SEE SPECIFICATIONS.						

**1** 

# PLUMBING GENERAL NOTES

- 1 THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL HORIZONTAL AND VERTICAL PIPING WITH ALL OTHER TRADES AND SHIFT LOCATION WHERE REQUIRED.
- 2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING ALL EXISTING GAS, AND WATER SYSTEMS WHEN NEW EQUIPMENT IS INSTALLED ON EXISTING SYSTEMS. TESTING SHALL BE PER CODE AND LOCAL INSPECTION AGENCY REQUIREMENTS.
- 3 THE CONTRACTOR SHALL VERIFY ALL SERVICES AND THEIR INVERTS.
- 4 VERIFY ALL FIXTURE AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- THE CONTRACTOR SHALL VERIFY PLUMBING FIXTURE MOUNTING HEIGHTS WITH 5 ARCHITECT / ARCHITECTURAL DRAWINGS. FIXTURES REQUIRING HANDICAPPED ACCESS SHALL BE INSTALLED PER OBBC ACCESSIBILITY GUIDELINES.
- 6 ALL DOMESTIC HOT AND COLD WATER LINES SHALL BE INSULATED PRESS-FIT OR SOLDERED TYPE "L" COPPER.
- 7 ALL ROOF AND WALL FLASHINGS BY GC.
- 8 THE PLUMBING CONTRACTOR SHALL REVIEW HVAC DRAWINGS AND NOTES FOR GAS AND CONDENSATE PIPING WORK TO BE COVERED IN THE PLUMBING CONTRACTOR'S BID PROPOSAL.
- 9 THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OR OFFSETTING OF EXISTING PIPING ENCOUNTERED IN THE DEMOLITION OR REVISION OF EXISTING WALLS.
- 10 ALL EXISTING PIPING THAT IS TO BE DISCONNECTED AND ABANDONED SHALL BE CAPPED AT THE INLET AND OUTLET.
- 11 ALL PVC PIPING LOCATED ABOVE THE CEILING SHALL BE COVERED WITH A FIRE-RESISTANT WRAP, SIMILAR AND EQUAL TO 3M FIRE BARRIER PLENUM WRAP 5A+. IT SHALL BE AN INORGANIC FIBER BLANKET ENCAPSULATED WITH FOIL SCRIM, PROVIDING A FLEXIBLE ENCLOSURE THAT IS NON-COMBUSTIBLE AS TESTED TO UL 910.

# PLUMBING EQUIPMENT DATA imes

- TEMPERING VALVE
- ASSE 1070 LISTED SINK TEMPERING VLAVE TO LIMIT WATER TEMPERATURE TO 110 DEG F. WATTS "USG-6-M2-3/8" UNDER-SINK GUARDIAN THERMOSTATIC MIXING VALVE.
- <u>WATER HEATER 100 GALLON DWH-1</u> NATURAL GAS STORAGE TYPE, 100 GALLONS STORAGE, 153 GPH RECOVERY AT 100F RISE,130 CFH INPUT AT10.5"WC PRESSURE, FULL MODULATION BURNER, BUILT-IN CONDENSATE NEUTRALIZER. ON COLD AND HOT WATER SUPPLIES PROVIDE FULL PORT BALL VALVES, 6" BRAIDED STAINLESS STEEL CONNECTORS AND EXPANSION TANK. SET HEATER TO DELIVER 140 DEG WATER. PROVIDE DRAIN PAN. EXTEND PAN DRAIN AND TEMPERATURE AND PRESSURE RELIEF PIPING FULL SIZE TO AN APPROVED DRAIN LOCATION. PROVIDE A CONDENSATE NEUTRALIZATION KIT AND EXTEND CONDENSATE LINE AS REQUIRED. THE WATER HEATER SHALL BE AS MANUFACTURED BY RHEEM "TRITON SERIES", MODEL "GHE100SU-130(A)" OR APPROVED EQUAL.
- HOT WATER RETURN PUMP DWP-1 С DWP-1 PUMP CAPACITY OF 3 GPM AT 8 FT HD, 0.0205 HP ECM MOTOR, AND 1 INCH INLET/OUTLET. THE PUMP SHALL BE CONTROLLED BY TIMECLOCK AND IMMERSION AQUASTAT SET AT 10 DEGREES F BELOW HW SUPPLY TEMPERATURE. PROVIDE FULL PORT BALL VALVE SHUTOFFS AND GAUGE PLUG FITTINGS AT THE INLET AND OUTLET OF THE PUMP. ALSO PROVIDE A CHECK VALVE AND CONNECT TO THE RETURN FITTING ON THE WATER HEATER. BELL & GOSSETT SERIES ECOCIRC 19-16, OR APPROVED EQUAL.
- D <u>SECONDARY ROOF DRAIN DOWNSPOUT NOZZLE</u> 4" NICKEL BRONZE DOWNSPOUT NOZZLE WITH NO HUB INLET. ZURN #ZN199 OR EQUAL BY SIOUX CHIEF OR J.R. SMITH.
- E1 <u>SERVICE BASIN-24x24</u> FURNISH AND INSTALL AS SHOWN ON PLAN, MOP SERVICE BASIN UNIT TO BE ONE-PIECE MOLDED FIBERGLASS MADE WITH MATCHED METAL MOLDS USING EXTREME HEAT AND PRESSURE. HEIGHT SHALL BE 10" WITH NOT LESS THAN 1" WIDE SHOULDER. SIZE 24" X 24". DRAIN SHALL BE INTEGRALLY MOLDED, COMPLETE WITH DRAIN SEAL FOR INSTALLATION OF 3" ABS, PVC (SCH. #80) AND IRON PIPE. REMOVABLE STAINLESS STEEL STRAINER. ANSI SPECIFICATION Z 124-2017. IAPMO (UPC) LISTED. WARNOCK HERSEY (CSA) LISTED. WEIGHT 45 LBS., CUBIC FEET 4.2. INSTALL IN COMPLIANCE WITH LOCAL CODES. MODEL 63M, SERVICE BASIN SHALL BE AS MANUFACTURED BY E.L. MUSTEE & SONS, INC OR APPROVED EQUAL.
- E1 SERVICE FAUCET

FURNISH AND INSTALL A VACUUM BREAKER INTEGRAL STOPS, CHROME PLATED HOT AND COLD HANDLES. 3/4" HOSE END SPOUT WITH PAIL HOOK, TOP REINFORCING BAR AND MOUNTING BRACKET. SHALL MEET ANSI SPECIFICATIONS A112.1.1, SECTION 2.9 AND A112.18.1M, CSA LISTED, MODEL 63.600A. SERVICE FAUCET SHALL BE AS MANUFACTURED BY E.L. MUSTEE & SONS, INC OR APPROVED EQUAL.

## PLUMBING LEGEND

	COLD WATER SUPPLY
	HOT WATER SUPPLY
	HOT WATER SUPPLY
SAN	SOIL AND/OR WASTE
	CONDENSATE WASTE
	VENT PIPING
	CAP PIPING
<b>&gt;</b>	DIRECTION OF FLOW
<del>````</del>	PITCH OF PIPE
<u> </u>	PRESSURE REDUCING VALVE
	BACKFLOW PREVENTER
——	SOLENOID VALVE
<del></del>	STRAINER
<b></b>	BALL VALVE
<b></b>	BALANCING VALVE
⊳	GATE VALVE
<u> </u>	CHECK VALVE
——×——	GAS VALVE
	UNION
	REDUCER
Ŷ	PRESSURE RELIEF VALVE
<u>Q</u> P	PRESSURE GAUGE
——————————————————————————————————————	UNDERGROUND VALVE AND BOX
G	GAS PIPING
0	FLOOR DRAIN
co 🖌	CLEANOUT
со о	CLEANOUT – FLOOR OR GRADE
со 🛏 🗕	CLEANOUT – WALL
(A1)	FIXTURE DESIGNATION - SEE FIXTURE SCHEDULE
(FD)	DRAIN DESIGNATION – SEE DRAIN SCHEDULE
100	ROOM NUMBER DESIGNATION
$\bigwedge$ 1	REVISION DESIGNATION
VTR	VENT THRU ROOF
o	INDICATES RISE IN PIPE
e	INDICATES DROP IN PIPE
	WATER ISOMETRIC DESIGNATION
(1S)	SANITARY ISOMETRIC DESIGNATION
	DESIGNATES REFERENCE TO PLUMBING NOTES
(P1)	DESIGNATES REFERENCE TO PLUMBING NOTES
	DESIGNATES REFERENCE TO EQUIPMENT DATA
(1)	DESIGNATES REFERENCE TO DETAIL

## ALTERNATE DEDUCTS

ALT DEDUCT 01

- REMOVE INTERIOR PAINTING OF SELECTED AREAS OF THE BUILDING ALT DEDUCT 02
- REMOVE EXTERIOR FAÇADE IMPROVEMENTS. EXISTING BUILDING ENVELOPE TO REMAIN ALT DEDUCT 03
- REMOVE INSTALLATION OF SPRAY FOAM INSULATION AT THE UNDERSIDE OF THE METAL ROOF DECK AT BUILDING AREA B ALT DEDUCT 04
- REMOVE ALTERATIONS AT THE POLICE DEPARTMENT TOILET ROOMS [BUILDING AREA C]
- ALT DEDUCT 05

REMOVE EXTERIOR SITE LIGHTING

COORDINATE WITH ARCHITECTURAL DRAWINGS / SPECIFICATIONS

## PLUMBING - SHEET INDEX

P0.1	PLUMBING - LEGEND, GENERAL NOTES, EQUIPMENT DATA & SCHEDULE
P1.1	PLUMBING - DEMOLITIN PARTIAL FLOOR PLANS AREA C AND AREA D
P2.1	PLUMBING - REVISED BASEMENT FLOOR PLAN AREA D
P2.2	PLUMBING - REVISED PARTIAL FLOOR PLANS AREA A AND AREA C
P2.1	PLUMBING - REVISED ROOF PLAN AREA A, AREA B AND PARTIAL AREA C



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Project Number 2023-215 / HL#6695 Date April 03, 2024 Date Issue 07.03.24 90% CD 08.07.24 FINAL REVIEW 08.30.24 | BID/CONSTRUCTION SET \_\_\_\_\_ \_\_\_\_\_ --------------------Sheet Title Plumbing - Legend, General Notes, Equipment Data and Schedules

Sheet Number

P0.1







#### $\diamond$ PLUMBING NOTES for Sheet P1.1

STRUCTURE ABOVE.

C P1.1

- BACK TO THE SANITARY STACK. 4 EXISTING PIPING TO REMAIN.
- 5 EXISTING PLUMBING FIXTURES TO REMAIN.
- 6 REMOVE THIS PIPING BACK TO THIS POINT.
- REQUIRED.
- NEW WATER HEATER.
- 9 EXISTING WATER EXPANSION TANK TO REMAIN.
- EXISTING ACCESS DOOR.

## PLUMBING - DEMOLITION PARTIAL BASEMENT FLOOR PLAN - AREA D ORTH SCALE: 1/4"= 1'-0"

THIS PIPING IS LOCATED ABOVE THE CEILING AND/OR UNDERSIDE OF THE

## THIS PIPING LOCATED BELOW THIS FLOOR OR UNDERGROUND.

PLUMBING FIXTURES WITH HEAVY DASHED LINES SHALL BE DISCONNECTED AND REMOVED. EXISTING PIPING SERVING THESE FIXTURES SHALL BE CAPPED IN THE WALL OR FLOOR UNLESS THE FIXTURE IS TO BE REPLACED WITH A NEW ONE. IN THE CASE OF REPLACEMENT, LEAVE ENOUGH PIPE FOR ROUGH IN FOR A NEW FIXTURE. WHERE THERE IS EXISTING GALVANIZED DRAINPIPE, REMOVE

REMOVE FLOOR DRAIN AND ALL ATTACHMENTS. PATCH FLOOR OPENING AS

8 AFTER THE ELECTRICAL CONTRACTOR REMOVES ELECTRICAL POWER AND WIRING, REMOVE THE EXISTING GAS-FIRED DOMESTIC HOT WATER HEATER AND ASSOCIATED HOT WATER CIRCULATING PUMP AND PIPING TO ACCOMMODATE

10 REMOVE AND REPLACE THE EXISTING ISOLATION VALVE.

11 AFTER REMOVING AND INSTALLING NEW PIPING AS REQUIRED REMOVE THE

12 EXISTING PIPING ACCESS DOOR TO REMAIN, SHOWN FOR REFERENCE.

14 EXISTING PIPING ACCESS TO REMAIN, THE CONTRACTOR SHALL REMOVE AND REPLACE THE TWO EXISTING ISOLATION VALVES, 1" AND 1-1/2".

15 EXISTING HOSE BIB AND PIPING ACCESS DOOR TO REMAIN.

16 EXISTING PVC DRAINPIPE TO REMAIN. COVER WITH A FIRE-RESISTANT WRAP, SEE PLUMBING GENERAL NOTES.



FIRST FLOOR

P1.1

AREA C



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P1.1



**P1.1** 





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<u>C</u>DWP-1

-C DWP-1

PLUMBING NOTES for Sheet P2.1

1 THIS PIPING IS LOCATED ABOVE THE CEILING AND/OR UNDERSIDE OF THE STRUCTURE ABOVE.

 $\bigcirc$ 

- 2 PROVIDE CONDENSATE DRAIN, EXTEND FROM THE EXHAUST TEE AND NEUTRALIZER, WITH HAND-TIGHT PLUGS CLEANOUTS, AND TERMINATE DOWN TO THE EXISTING FLOOR DRAIN WITH MINIMUM OF 2 INCHES AIR GAP. VERIFY EXACT REQUIREMENTS WITH THE EQUIPMENT SUPPLIER AT THE JOB SITE.
- 3 PROVIDE VACUUM RELIEF VALVE.
- 4 EXISTING PIPING TO REMAIN.
- 5 EXISTING PLUMBING FIXTURES TO REMAIN.
- 6 NEW CONNECTION TO EXISTING PIPING. VERIFY THE EXACT LOCATION AND CONDITIONS AT THE JOB SITE.
- 7 PROVIDE INSULATION ON EXISTING DOMESTIC COLD AND HOT WATER COPPER LINES.
- 8 SEE THE ELECTRICAL DRAWINGS FOR POWER AND WIRING INTERLOCK.
- 9 EXISTING WATER EXPANSION TANK TO REMAIN.
- 10 REMOVE AND REPLACE THE EXISTING ISOLATION VALVE.
- 11 MAKE GAS CONNECTION TO WATER HEATER. PROVIDE GAS VALVE ON THE RISER, DIRT LEG AT THE BASE OF THE DROP, AND UNION AT THE CONNECTION. VERIFY EXACT CONNECTION REQUIREMENTS AT THE JOB SITE.
- 12 MAKE GAS CONNECTION TO THE NEW BOILER, BOILER FURNISHED AND INSTALLED BY HVAC CONTRACTOR. PROVIDE GAS VALVE ON THE RISER, DIRT LEG AT BASE OF DROP, UNION AT THE CONNECTION, AND INSTALL PRESSURE REGULATOR, PRESSURE REGULATOR PROVIDED WITH THE EQUIPMENT, COORDINATE WITH HVAC CONTRACTOR, AND VERIFY EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER AT THE JOB SITE.
- 13 EXTEND ¾" PRESSURE RELIEF DISCHARGE LINE DOWN TO EXISTING FLOOR DRAIN AND TERMINATE WITH 6" AIR GAP.







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8/29/2024

- 1 PROVIDE AN ASSE 1070 THERMOSTATIC MIXING VALVE. VERIFY EXACT

- 6 MARK UNDERGROUND SANITARY AND SAW CUT CONCRETE SLAB FOR NEW

- 8 NEW FLOOR CLEANOUT. SET FLUSH WITH FINISH FLOOR. SEE SPECIFICATIONS.
- 10 EXTEND 1-1/2" DRAIN LINE BEHIND CASEWORK BEFORE DROPPING DOWN TO
- 13 PLUMBING FIXTURES WITH HEAVY SOLID LINES SHALL BE NEW FIXTURES AS DESIGNATED IN THE PLUMBING SPECIFICATIONS AND AS INDICATED IN THE PLUMBING FIXTURES SCHEDULE, SHEET P0.1. RUN OUT COLD AND HOT WATER
- 14 NEW CONNECTION TO EXISTING PIPING. VERIFY THE EXACT LOCATION AND
- 16 EXTEND PIPING TO NEW PLUMBING FIXTURES IN ROOMS 116, 118, AND 119.



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Date			
April	03, 2024		
Date	Issue		
07.03.24	90% CD		
08.07.24	FINAL REVIEW		
08.30.24	<b>BID/CONSTRUCTION SET</b>		
Sheet Tit	le		
Plumk Partic Area	oing - Revised Il First Floor Plans A and Area C		
Sheet Number			

P2.2







#### $\bigcirc$ PLUMBING NOTES for Sheet P2.3

- 1 EXISTING GAS PIPING ON THE ROOF TO REMAIN, SHOWN FOR REFERENCE ONLY.
- 2 MAKE GAS PIPING CONNECTION TO EQUIPMENT AND PROVIDE AGA-RATED BALL VALVE AND DIRT LEG AT BASE OF DROP. VERIFY EXACT CONNECTION REQUIREMENTS AT THE JOB SITE.
- 3 CONNECT NEW <sup>3</sup>/<sub>4</sub>" SCHEDULE 40 BLACK STEEL GAS LINE FOR AH-B TO EXISTING MAIN. VERIFY SIZE & PRESSURE AT MAIN. PROVIDE BALL VALVE SHUTOFF AT THE MAIN AND NEW REGULATOR AT THE UNIT. PRESSURE AT THE MAIN IS ASSUMED TO BE 1.13 PSIG. NATURAL GAS LOAD AT THE NEW AH UNIT IS 125 CFH.
- 4 THE PLUMBING CONTRACTOR TO CLEAN, PRIME, AND PAINT ALL NEW FUEL GAS PIPING WITH 2 COATS OF BLACK EXTERIOR GRADE ENAMEL.
- 5 RUBBER PIPE SUPPORT WITH EMBEDDED UNISTRUT CHANNEL. DURA-BLOCK OR EQUAL.
- 6 CONNECT NEW 1/2" SCHEDULE 40 BLACK STEEL GAS LINE FOR AH-C TO THE EXISTING MAIN. VERIFY SIZE & PRESSURE AT MAIN. PROVIDE BALL VALVE SHUTOFF AT MAIN AND NEW REGULATOR AT UNIT. PRESSURE AT THE MAIN IS ASSUMED TO BE 1.13 PSIG. NATURAL GAS LOAD AT THE NEW AH UNIT IS 65 CFH.
- 7 CONNECT NEW 1/2" SCHEDULE 40 BLACK STEEL GAS LINE FOR AH-D TO 3" MAIN. VERIFY SIZE & PRESSURE AT MAIN. PROVIDE BALL VALVE SHUTOFF AT MAIN AND NEW REGULATOR AT UNIT. PRESSURE AT THE MAIN IS ASSUMED TO BE 1.13 PSIG. NATURAL GAS LOAD AT THE NEW AH UNIT IS 110 CFH.
- 8 THIS PIPING LOCATED ABOVE CEILING AND/OR UNDERSIDE OF STRUCTURE ABOVE.
- 9 SECONDARY OVERFLOW DRAIN.
- 10 INSULATE ROOF DRAIN BODIES BELOW THE ROOF AND ALL HORIZONTAL PIPING, SEE SPECIFICATIONS.
- 11 TERMINATE 4" SECONDARY ROOF DRAIN OUTLET AT WALL DISCHARGED THROUGH ABOVE GRADE DOWNSPOUT NOZZLE. SEE PLUMBING EQUIPMENT DATA, ITEM "D."



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AIR HANDLING UNIT SCHEDULE													
DESIGN CONDITIONS: ACCESSORIES:													
1 COOLING OUTDOOR TEMP.95°F114" INSULATED ROOF CURB6STAGED COOLING (SEE SPECS)11CONCENTRIC VENT2 HEATING OUTDOOR TEMP10°F2BACNET INTERFACE CONTROLLER72" DISPOSABLE MERV 8 FILTERS12SCROLL COMPRES3 COOLING ENT. AIR TEMP.80°F3POWERED CONVENIENCE OUTLET8FOIL FACED INSULATED CABINET13CONDENSER HAIL4 HTG. ENT. AIR TEMP.67°F4ECONOMIZER PACKAGE, BAR. RELIEF9ELECTRONIC ZONE DAMPERS (SEE SCHED.)14THRU BASE CONN'552 STAGE HEATING10FURNACE TWINNING KIT15NON-FUSED DISCC						11CONCENTRIC VENT K 12SCROLL COMPRESS 13CONDENSER HAIL GU 14THRU BASE CONNEC 15NON-FUSED DISCON	(IT ORS (2) JARDS STIONS NECT						
MARK	NOM.	CFM	ESP	CLG. CAPA	CITY (MBH)	HTG. CAPA	CITY (MBH)	MOTOR	MIN. O.A.	SERVING	A IR HA NDLER	ACCESSORIES	NOTES
	TONS		INWC	TOTAL	SENSIBLE						MODEL No.	(SEE ABOVE)	(SEE BELOW)
A H-A	7.5	2 000	1.00"	02.20	70.00	405 / 400			NIT CARRIER MODEL 46FCEAU4AZASAUAUAU, SERIAL 3520C66456				3, 4 4 F
AH-B	1.5	3,000	1.00	93.30	72.20	125 / 103	50/41	3	465	SEE PLAN	48FCDM08A2M53F2F0	1,2,3,4,5,6,7,8,9,12,14,15	4, 5
AH-C	3.0	1,200	1.00"	35.10	25.40	67	54	3/4	125	SEE PLAN	48FCEB04A1M5-2F2F	1,2,3,4,7,8,9,14,15	4, 5
AH-D	3.0	1,500	1.00"	36.30	28.00	110 / 93	82 / 65	1	125	SEE PLAN	48FCEB04A1M5-2F2F	1,2,3,4,7,8,9,14,15	4, 5
AH-E	12.5	6,650	1.25"	139.11	108.32			5	425	SEE PLAN	THJ150BS00**G4C	1, 2, 3, 6, 13, 14, 15	1, 2, 4
AH-F							EXISTING	ROOFTOF	UNIT CAR	RIER MODEL 50VT-0	C2430TP, SERIAL 1620	F50203	3, 4

PROVIDE FACTORY WIND RATED ROOF CURB HOLD-DOWN BRACKETS. (TYPICAL FOR ALL UNITS)

NOTES: 1.) TRANE HIGH EFFICIENCY MODELS OR APPROVED EQUAL BY CARRIER

PROVIDE INDOOR AIR QUALITY (CO2) SENSOR TO MODULATE OA DAMPER. COMPRESSORS SHALL BE FULLY HERMETIC, INTERNALLY PROTECTED SCROLL-TYPE.

PROVIDE POWER EXHAUST FAN, CURB, COMPARATIVE ENTHALPY ECONOMIZER PACKAGE, CONDENSER COIL HAIL GUARD, AND SUPPLY FAN VAV OVERSIZED MOTOR WITH SHAFT GROUND RING.

2.) PROVIDE BACNET CONTROL INTERFACE AND MAP POINTS TO THE EXISTING I-Vu® BUILDING AUTOMATION SYSTEM.

3.) PROVIDE IVU OPEN CONTROLLER FOR RTU, SUPPLY AIR TEMPERATURE SENSOR, REMOVE ECONOMIZER CONTROLLER AND WIRE THE ACTUATOR DIRECTLY TO THE NEW BOARD. MAP POINTS TO THE EXISTING I-Vu® BUILDING AUTOMATION SYSTEM. EXISTING UNIT MODEL AND SERIAL NUMBER SHOWN FOR REFERENCE, CONTRACTOR SHALL FIELD VERIFY IT.

4.) PROGRAM NEW CONTROLLER TO CLOSE MOTOR OPERATED OA DAMPER DURING UNOCCUPIED PERIODS. PROGRAM CONTINUOUS FAN OPERATION DURING OCCUPIED PERIODS AND PROGRAM NIGHT SETBACK PER OWNERS OCCUPANCY SCHEDULE.

5.) CARRIER MODELS OR APPROVED EQUAL BY TRANE

							Т	ERMIN	NAL AI	R BO	X SCHE	DULE	$\bigcirc$			
BOX TYPE DESIGN CONDITIONS										MISCELLAN	TEOUS					
AVARIABLE AIR VOLUME (VAV) BVAV - TERMINAL REHEAT CCONSTANT VOLUME - REHEAT DFAN POWERED/CONST. VOLUME-REHEAT EFAN POWERED/VAR VOLUME - REHEAT FBYPASS FOR FLOW CONTROL						1PRI 2ENT 3MIN 4MAX 5ELE 6MIN	1PRIMARY AIR TEMP					ISCONNECT				
		INLET					REHE	AT COIL DA	ГА		MINIMUM	MINIMUM	MAIN			THERMOSTAT
MARK	CFM	COLLAR SIZE IN. DIA.	BOX DEPTH INCHES	BOX TYPE	MAX. NC (*) LEVEL	MBH	G₽M	ENTERING AIR TEMP. TO COIL	FINAL AIR TEMP.	PIPE SIZE	HEATING AIR CFM	PRIMARY COOLING AIR VOL. %	COIL ROWS	MISCELLANEOUS	NOTES	LOCATION ROOM No.
01	500	7 Ø	10	В	32	10.30	0.69	55°F	<mark>82</mark> °F	3/4"	350	0%	1	11 SIZE- 7	1, 2, 3, 4, 5, 6	142 S
02	2,000	14 Ø	17.5	В	32	67.82	4.52	55°F	100 °F	1"	1,400	30%	2	11 SIZE- 14	1, 2, 3, 4, 5. 6	142 N
03	2,000	14 Ø	17.5	В	32	67.82	4.52	55°F	100 °F	1"	1,400	30%	2	11 SIZE- 14	1, 2, 3, 4, 5, 6	142 SW
04	2,000	14 Ø	20.125	D	32	67.01	4.47	55°F	99 °F	1"	1,400	30%	2	12 SIZE-50 14	1, 2, 3, 4, 5, 7	144 N
05	2,000	14 Ø	20.125	D	32	67.01	4.47	55°F	99 °F	1"	1,400	30%	2	12 SIZE-50 14	1, 2, 3, 4, 5, 7	144 S
06	300	6 Ø	8	В	32	6.18	0.41	55°F	82 °F	3/4"	210	0%	1	11 SIZE- 6	1, 2, 3, 4, 5	004
07	700	7 Ø	10	В	32	13.51	0.90	55°F	80 °F	3/4"	0	30%	1	11 SIZE- 7	1, 2, 3, 4, 5	015
08	500	7Ø	10	В	32	10.30	0.69	55°F	82 °F	3/4"	350	0%	1	11 SIZE- 7	1, 2, 3, 4, 5	014
10	700	7 Ø	10	В	32	20.36	1.36	55°F	93 °F	3/4"	490	30%	2	11 SIZE- 7	1, 2, 3, 4, 5	179
11	575	7 Ø	10	В	32	17.81	1.19	55°F	96 °F	3/4"	403	30%	2	11 SIZE- 7	1, 2, 3, 4, 5	171
12	350	6 Ø	8	В	32	7.21	0.48	55°F	82 °F	3/4"	245	0%	2	11 SIZE- 6	1, 2, 3, 4, 5	177
13	600	7 Ø	10	В	32	17.21	1.15	55°F	93 °F	3/4"	420	30%	2	11 SIZE- 7	1, 2, 3, 4, 5	176
14	275	<u>5 Ø</u>	8	B	32	5.15	0.34	55°F	80 °F	3/4"	193	0%	1	11 SIZE- 5	1, 2, 3, 4, 5	172
15	300	6 Ø	8	В	32	6.18	0.41	55°F	82 °F	3/4"	210	0%	2	11 SIZE- 6	1, 2, 3, 4, 5	170/169
16	300	6 Ø	8	В	32	6.18	0.41	55°F	82 °F	3/4"	210	30%	2	11 SIZE- 6	1, 2, 3, 4, 5	168
17	775	9 Ø	12.5	B	32	15.96	1.06	55°F	82 °F	3/4"	543	30%	2	11 SIZE- 9	1, 2, 3, 4, 5	166
18	725	8 Ø	10	B	32	14.93	1.00	55°F	82 °F	3/4"	508	30%	2	11 SIZE- 8	1, 2, 3, 4, 5	151/152
19	400	60	8	B	32	7.55	0.50	55°F	80 °F	3/4"	280	30%	2	11 SIZE- 6	1, 2, 3, 4, 5	158
20	400	60	8	B	32	8.04	0.54	55°F	81 °F	3/4"	280	30%	2	11 SIZE- 6	1, 2, 3, 4, 5	153
21	250	50	8	В	32	6.11	0.41	55°F	87 °F	3/4"	1/5	30%	1	11 SIZE- 5	1, 2, 3, 4, 5	150

NOTES:

1 TERMINAL AIR BOX SELECTION BASED ON PRICE MODEL NUMBERS, SIZE, AND CONFIGURATION AS INDICATED IN SCHEDULE AND ON DRAWINGS. SEE SPECIFICATIONS. 2 TCC SHALL PROVIDE DDC CONTROLLERS

3 TCC PROVIDE ZONE TEMPERATURE SENSOR, SEE SPECIFICATIONS. 4 PROVIDE WIRING AND TAGGED HOT-WATER VALVE AND PIPING PACKAGE.

5 PROVIDE UNIT-MOUNTED DISCONNECT.

6 TERMINAL UNIT SHALL BE FURNISHED WITH 1" FOILED FACED BOARD WITH PERFORATED METAL LINER. 7 TERMINAL UNIT SHALL BE FURNISHED WITH 1" DUAL-DENSITY FIBER GLASS LINER. (\*) MAXIMUM RADIATED LEVEL

	ZONE DAMPER SCHEDULE								
MARK	CFM	INLET COLLAR SIZE	MAX. PRESSURE DROP	CA RRIER MODEL NUMBER	AH#	THERMOSTAT LOCATION ROOM No.	NOTES		
A1	850	14" Ø	0.08" WG	OPNDR14	AH-A	113	1		
A2	350	8" Ø	0.08" WG	OPNDR8	AH-A	111	1		
A3	900	12" Ø	0.12" WG	OPNDR12	AH-A BYPASS		2		
B4	150	6" Ø	0.08" WG	OPNDR06	AH-B	109	1		
B5	300	8" Ø	0.08" WG	OPNDR08	AH-B	123	1		
B6	400	8" Ø	0.08" WG	OPNDR08	AH-B	102	1		
B7	600	10" Ø	0.08" WG	OPNDR10	AH-B	103	1		
B8	550	10" Ø	0.08" WG	OPNDR10	AH-B	108	1		
B9	300	8" Ø	0.08" WG	OPNDR08	AH-B	116	1		
B10	325	8" Ø	0.08" WG	OPNDR08	AH-B	114	1		
B11	2,250	18" X 18"	0.12" WG		AH-B BYPASS		2,3		
C12	300	8" Ø	0.08" WG	OPNDR08	AH-C	128	1		
C13	650	12" Ø	0.08" WG	OPNDR12	AH-C	131	1		
C14	250	8" Ø	0.08" WG	OPNDR08	AH-C	127	1		
C15	900	12" Ø	0.12" WG	OPNDR12	AH-C BYPASS		2,3		
D16	600	10" Ø	0.08" WG	OPNDR10	AH-D	125	1		
D17	550	10" Ø	0.08" WG	OPNDR10	AH-D	126	1		
D18	300	8" Ø	0.08" WG	OPNDR08	AH-D	133	1		
D19	325	8" Ø	0.08" WG	OPNDR08	AH-D	134	1		
D20	1,200	14" Ø	0.12" WG	OPNDR14	AH-D BYPASS		2,3		
N21	175	6" Ø	0.08" WG	OPNDR06	AH	136	1		
N22	175	6" Ø	0.08" WG	OPNDR06	AH	135	4		

NOTES: 1.) PROVIDE CARRIER "VVT ZONE II CONTROLLER - # OPN-VVTC-02" & "ZS PRO - #ZS2P-CAR SENSOR". 2.) PROVIDE CARRIER "VVT BYPASS II CONTROLLER - # OPN-VVTBP-02". 3.) SEE AIR DEVICE SCHEDULE, AIR DEVICE 16.

4.) REMOVE AND INSTALL EXISTING ACTUATOR CONTROLLER.

# EQUIPMENT DATA

HEAT	TPUMPS (5 REQUIRED)	
MARK	TYPE COOLING CAPACITY HEATING CAPACITY CFM (Lo-Med-Hi)	AC-1, AC-2, AC-3, AC-4, AND AC-5 CEILING CASSETTE HEAT-PUMP 24 MBH 15.1 MBH @ 17F 625 / 761 / 878
	ELECTRICAL	. SEE ELECTRICAL DRAWINGS . WALL MOUNTED THERMOSTAT (5 REQUIRED) GRILLE / CEILING PANEL 24V INTERFACE KIT
	MFR.& MODEL #	CARRIER "40MBCQ24" (INDOOR UNIT) CARRIER "38MARBQ24AA3" (OUTDOOR UNIT) OR APPROVED EQUAL BY MITSUBISHI WITH LOW AMBIENT WIND BAFFLE
UNIT	HEATER	
	MARK	UH-1 & UH-2
	TYPE	HORIZONTAL DISCHARGE
	SOUND RATING	. II
	ELECTRICAL	SEE ELECTRICAL DRAWINGS
	CAPACITY (1)	. 31.32 MBH
	COIL GPM	. 2.09
	COIL - WPD	. 0.05 FT. WG
	CFM	750
	OUTLET VELOCITY	550 FPM
	BLOWER MOTOR	1/20HP
	MOTOR RPM	1,000
	ACCESSORIES	. UNIT MOUNTED THERMOSTAT, AND
		DIFFUSER BLADES
	MFR. & MOD. #	. TRANE "S-48"
		OR APPROVED EQUAL. SEE SPECIFICATIONS
(1)	HEATING DESIGN CONDITIO	NS: 60°F DB - EAT, 180°F EWT

UNIT HEATER

MARK	UH-3 & UH4
TYPE	HORIZONTAL DISCHARGE
SOUND RATING	I
ELECTRICAL	SEE ELECTRICAL DRAWINGS
CAPACITY (1)	43.9 MBH
COIL GPM	2.93
COIL - WPD	0.07 FT. WG
CFM	700
OUTLET VELOCITY	510 FPM
BLOWER MOTOR	1/20HP
MOTOR RPM	900
ACCESSORIES	UNIT MOUNTED THERMOSTAT, AND
	DIFFUSER BLADES
MFR. & MOD. #	TRANE "S-60"
	OR APPROVED EQUAL. SEE SPECIFICATIONS
HEATING DESIGN COND	ITIONS' 60°E DB - EAT 180°E EWT

CABINET HEATER

	MARK	CH-1 AND CH-2
	TYPE	
		SEE ELECTRICAL DRAWINGS
	CAPACITY (1)	. 15.37 MBH
	COIL GPM	.1
	COIL - WPD	. 4.46 FT. WG
	CFM	200
	OUTLET VELOCITY	863 FPM
	BLOWER MOTOR	ECM MOTOR AT 0.018 HP
	MOTOR RPM	. 870
	ACCESSORIES	. 3-WAY BASIC PIPING PACKAGE WITH MANUAL
		CIRCUIT SETTER, DISCONNECT SWITCH, UNIT
		MOUNTED THERMOSTAT, 1" FILTER, 3" PROJECTION
		PANEL, AND CABINET COLOR SELECTED BY ARCHITECT
	MFR. & MOD. #	. TRANE "FFHB020"
		OR APPROVED EQUAL. SEE SPECIFICATIONS
1)	HEATING DESIGN CONDITIO	NS <sup>,</sup> 60°F DB - FAT 180°F FWT

(1) HEATING DESIGN CONDITIONS: 60°F DB - EAT, 180°F EWT

## HVAC GENERAL NOTES

- WHERE REFERENCE IS MADE TO AN EXISTING PIPE, DUCT, OR AN ITEM OF EQUIPMENT, THE CONTRACTOR SHALL FIELD VERIFY EXACT SIZE, MODEL NUMBER, SERIAL NUMBER, AND LOCATION BEFORE ORDERING MATERIALS AND/OR STARTING FABRICATION.
- 2 THE EXISTING MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHOWN ON THESE DRAWINGS ARE SHOWN IN THEIR APPROXIMATE LOCATION AND MUST BE FIELD VERIFIED.
- CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL PIPES, DUCTS, 3 TERMINAL AIR UNITS, ETC. WITH THE OTHER TRADES AND SHIFT LOCATION OR OFF-SET WHERE NECESSARY. WORK BY OTHER TRADES ISN'T RESTRICTED TO NEW WORK BUT ALSO INCLUDES EXISTING ITEMS SUCH AS ELECTRICAL CONDUITS, STORM PIPING, ETC.
- ALL EQUIPMENT, PIPING, DUCTWORK, CONTROLS, VALVES, ETC., NOTED TO BE REMOVED SHOULD ALSO BE DISPOSED OF UNDER THIS SECTION OF WORK UNLESS THE OWNER WISHES TO RETAIN POSSESSION OF SPECIFIC ITEMS.
- UNLESS OTHERWISE INDICATED, ALL NEW SUPPLY DUCTWORK SHALL BE ACOUSTICALLY LINED SHEET METAL WITH 1-1/2" DUCT LINER (MIN. R=6). RETURN AIR DUCTWORK NEED NOT BE INSULATED. IN LIEU OF DUCT LINER ON ROUND SUPPLY DUCT, CONTRACTOR MAY USE 2.2" FOIL-FACED BATT INSULATION (MIN. R=6).
- 6 ALL DUCTS AND PIPES SHALL BE INSTALLED ABOVE THE CEILING. WHERE NO CEILINGS ARE INSTALLED HOLD AS HIGH AS POSSIBLE OR WHERE DETAILED.
- 7 CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS STEEL REQUIRED FOR PIPE AND DUCTWORK SUPPORTS AND EQUIPMENT.
- 8 ALL PIPING SHALL BE INSTALLED IN A MANNER THAT WILL ACCOMMODATE THERMAL EXPANSION. WATER PIPING SHALL BE ASSEMBLED USING VICTAULIC "QUICKVIC® STYLE 177" FLEXIBLE COUPLINGS. IF GASKETED AND GROOVED PIPING, FITTINGS, AND COUPLINGS ARE NOT USED, AND THE PIPE IS WELDED OR SOLDERED, THE CONTRACTOR SHALL PROVIDE EXPANSION LOOPS AND COMPENSATORS. INSTALLATION SHALL CONFORM TO THE MANUFACTURER'S STANDARD INSTRUCTIONS REGARDING ALLOWANCES FOR EXPANSION. PROPERLY DESIGNED LOOPS AND COMPENSATORS SHALL BE INCLUDED IF THE CONTRACTOR ELECTS TO WELD PIPING.
- 9 THE CONTRACTOR SHALL MAINTAIN MAXIMUM PIPE CLEARANCE AWAY FROM ANY ELECTRICAL EQUIPMENT. PIPING SHALL NOT PASS DIRECTLY OVER ANY ELECTRICAL EQUIPMENT.
- 10 PROVIDE AIR VENTS WITH BALL VALVES AND DOWNTURN ELBOWS AT ALL HIGH POINTS IN PIPING SYSTEMS.
- 11 ALL PIPING SHALL BE PRESSURE TESTED AT 1.5 TIMES WORKING PRESSURE (MIN. 150 PSIG).
- 12 ALL PIPING SHALL BE INSULATED WITH EITHER FIBERGLASS SECTIONAL PIPE INSULATION WITH ASJ OR FLEXIBLE ELASTOMERIC CELLULAR INSULATION IN ACCORDANCE WITH THE FOLLOWING:

CHILLED WATER INSULATION: INDOOR PIPING SHALL BE 1- 1/2" THICK. CHILLED WATER INSULATION: OUTDOOR PIPING SHALL BE 2-1/2" THICK AND EMBOSSED ALUMINUM JACKET.

- 13 TEMPERATURE CONTROLS CONTRACTOR (TCC) SHALL PROVIDE ALL LOW AND HIGH VOLTAGE WIRING TO CONTROL PANELS, RTUS, ZONE DAMPERS, SPLIT SYSTEMS, THERMOSTATS, ETC. SEE ELECTRICAL DRAWINGS FOR POWER WIRING. ALSO, SEE ZONE DAMPER AND AIR HANDLING UNIT SCHEDULES FOR TCC SUBCONTRACTOR PRICING SHALL BE INCLUDED IN THE MECHANICAL CONTRACTOR'S BID, SEE SPECIFICATIONS.
- 14 ALL ROOF WORK INCLUDING FLASHING AND PATCHING SHALL BE COMPLETED BY THE OWNER'S ROOFING CONTRACTOR TO MAINTAIN WARRANTY. FOR SUBCONTRACTOR PRICING, CONTACT COTTERMAN ROOFING AT 800-713-3190. SEE ARCHITECTURAL SHEET A1.17 FOR NOTES AND ROOF DETAILS.
- 15 BELOW-DECK STRUCTURAL SUPPORTS AND FRAMING FOR ROOF-MOUNTED MECHANICAL EQUIPMENT SHALL BE PROVIDED BY THE GENERAL CONTRACTOR (GC), ABOVE DECK HOLD-DOWN CLIPS AND/OR WIND LOAD RESTRAINTS FOR MECHANICAL EQUIPMENT SHALL BE DESIGNED BY THE STRUCTURAL ENGINEER AND INSTALLED BY GC. REF: OMC SECTION 301.15.
- 16 THE MECHANICAL CONTRACTOR SHALL INCLUDE THE DISASSEMBLY AND ASSEMBLY COST FOR THE FAN SECTION OF THE AIR CONDITIONING UNIT, AHU-1.
- 17 ALL EXISTING DUCTWORK IN AREAS INCLUDED IN THIS CONTRACT SHALL BE VACUUMED AND CLEANED PER THE GUIDELINES OF THE NATIONAL AIR DUCT CLEANERS' ASSOCIATION (NADCA). SEE SPEC ITEM DUCT CLEANING.
- 18 AIR HANDLERS WILL NEED TO BE REMOVED AND REPLACED ON AN INDIVIDUAL BASIS. INCLUDE ALL ADDITIONAL COSTS FOR RIGGING AND ROOF REPAIRS.
- 19 AFTER CLEANING THE GLYCOL PIPING SYSTEM, THE CONTRACTOR SHALL PROVIDE 35% PROPYLENE GLYCOL (BY VOLUME) PREMIXED SOLUTION OF DOWFROST™ "HD" HEAT TRANSFER FLUID OR EQUAL BY NU-CALGON. ALTHOUGH THE CONTRACTOR IS RESPONSIBLE FOR CALCULATING THE EXACT CHILLED WATER VOLUME, THE APPROXIMATE LOOP VOLUME IS 300 GALLONS; IN ADDITION TO THE PIPING VOLUME, FILL THE 55-GALLON GLYCOL FEED TANK.
- 20 THE OWNER WILL REMOVE AND/OR RELOCATE COAX, PHONE, AND IT CABLING FROM THE AREAWAY AND MECHANICAL ROOM WHERE EQUIPMENT WILL BE REMOVED AND REINSTALLED. DO NOT INCLUDE THESE COSTS IN YOUR PROPOSAL.

# HVAC LEGEND

)UCTWORK:				
12x12 OA EA	LOW PRESSURE DUCTWORK OUTSIDE AIR DUCTWORK EXHAUST AIR DUCTWORK			
	BALANCE DAMPER FIRE DAMPER FLEXIBLE DUCT CONNECTION BELLMOUTH TAKE-OFF WITH BALANCING DAMPER AND FLEXIBLE DUCT RUNOUT BELLMOUTH TAKE-OFF WITH BALANCING DAMPER AND S/M DUCT RUNOUT INCLINED RISE IN DIRECTION OF ARROW INCLINED DROP IN DIRECTION OF ARROW DUCT ACCESS DOOR ZONE DAMPER TERMINAL AIR BOX WITH HIGH PRESSURE INLET AND LOW PRESSURE OUTLET SUPPLY AIR DEVICE RETURN OR EXHAUST AIR DEVICE SLOT DIFFUSER ACOUSTICALLY LINED S/M DUCT VANED ELL (MITER) STANDARD RADIUS ELL VANED ELL (SHORT RADIUS)			
PIPING:				
	CHILLED WATER SUPPLY LINE CHILLED WATER RETURN LINE			

— CHS—	CHILLED WATER SUPPLY LINE				
CHR	CHILLED WATER RETURN LINE				
—HWS—	HOT WATER SUPPLY LINE				
HWR	HOT WATER RETURN LINE				
—_G—_	GAS LINE				
CND	CONDENSATE WASTE				
—————————————————————————————————————	BALANCING VALVE				
	BALL VALVE				
— <b>b</b> —	BUTTERFLY VALVE				
$-\overline{\mathbf{N}}$	CHECK VALVE				
$-\bowtie$	GATE VALVE				
—Ā	GLOBE VALVE				
<del>+&gt;+</del>	STRAINER				
<b>−Ř</b> −	STRAIGHT THRU MODULATING CONTROL VALVE				
	3-WAY CONTROL VALVE				
——————————————————————————————————————	TWO POSITION CONTROL VALVE				
∞—	SAFETY VALVE OR PRESSURE RELIEF VALVE				
I	UNION				
	DIRECTION OF FLOW				
<u> </u>	PITCH OF PIPE				
]	HOSE END CONNECTION				
	CAP PIPING				
<b>&gt;</b>	PIPE DROP				
o	PIPE RISE				
<u> </u>	PRESSURE REDUCING VALVE				
——×	GAS VALVE				
— <b>A</b> —	LUBRICATED PLUG VALVE				
<u> </u>	PRESSURE GAUGE				
<b>— </b>	NEW CONNECTION TO EXISTING PIPING				
MISCELLANEOUS:					

	ELECTRONIC ROOM THERMOSTAT
S	AVERAGING ROOM SENSOR
Û	PNEUMATIC ROOM THERMOSTAT
<b></b> 2 <b></b> _	RETURN AIR OPENING IN WALL ABOVE CEILING NUMBER INDICATES AREA (GROSS) IN SQUARE FEET
	DISCHARGE AIR
<i>A</i> ►	EXHAUST OR INTAKE AIR
$\triangle$	REVISION SYMBOL
$\bullet$	NEW CONNECTION TO EXISTING
123	ROOM NUMBER
$\langle 1 \rangle$	NOTE SYMBOL
Ē	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
[]]]]	EXISTING TO BE REMOVED
[]ER	EXISTING TO BE RELOCATED
ER	EXISTING RELOCATED
(1)	REFERENCE TO DETAIL
1 M1-t	-DETAIL NUMBER -SHEET NUMBER
	CONTRACT LIMIT
BAS	BUILDING AUTOMATION SYSTEM
EC	ELECTRICAL CONTRACTOR
TCC	TEMPERATURE CONTROLS CONTRACTOR
GC	GENERAL CONTRACTOR

#### ALTERNATE DEDUCTS

ALT DEDUCT 01 REMOVE INTERIOR PAINTING OF SELECTED AREAS OF THE BUILDING ALT DEDUCT 02

- REMOVE EXTERIOR FAÇADE IMPROVEMENTS. EXISTING BUILDING ENVELOPE TO REMAIN ALT DEDUCT 03
- REMOVE INSTALLATION OF SPRAY FOAM INSULATION AT THE UNDERSIDE OF THE METAL ROOF DECK AT BUILDING AREA B ALT DEDUCT 04
- REMOVE ALTERATIONS AT THE POLICE DEPARTMENT TOILET ROOMS [BUILDING AREA C] ALT DEDUCT 05
- REMOVE EXTERIOR SITE LIGHTING

COORDINATE WITH ARCHITECTURAL DRAWINGS / SPECIFICATIONS

#### HVAC - SHEET INDEX

H0.1	HVAC - LEGEND, GENERAL NOTES, SCHEDULES, AND EQUIPMENT DATA,
H0.2	HVAC - SCHEDULES
H0.3	HVAC - POINT LIST AND CONTROL SCHEMATICS
H0.4	HVAC - POINT LIST, CONTROL SCHEMATICS AND EQUIPMENT DATA
H0.5	HVAC - PROPOSED TEMPERATURE CONTROL SEQUENCE OF OPERATION
H1.1	HVAC - DEMOLITION PARTIAL FLOOR PLANS - AREA B, AREA C, AND AREA D
H1.2	HVAC - DEMOLITION PARTIAL FLOOR PLAN - AREA A
H2.1	HVAC - REVISED PARTIAL FLOOR PLANS - AREA B, AREA C AND AREA D
H2.2	HVAC - REVISED PARTIAL FLOOR PLAN - AREA A
H2.3	HVAC - REVISED ROOF PLAN - AREA A, AREA B, AND PARTIAL AREA C
H3.1	HVAC - REVISED PIPING SITE PLAN
H3.2	HVAC - REVISED PIPING PARTIAL FLOOR PLANS - AREA B, AREA C AND AREA D
H4.1	HVAC - DETAILS
H4.2	HVAC - DETAILS



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Sheet Number

H0.



SYSTEM	ROOM #
AH-B	102
AH-B	103
AH-B AH-B	104 105
AH-B	107
AH-B	108
AH-B AH-B	103
AH-A	111
AH-B AH-B	112 113
AH-B	114
AH-B AH-B	115 116
AH-B	117
AH-B	118
AH-B AH-B	119
AH-B	124
	 TOTA
AH-C	127
AH-C	128
AH-C AH-C	129
AH-C	131
AH-C	136 T
AH-D	125
AH-D	126 133
AH-D	134
	T
AH-E	150
AH-E AH-E	151
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AH-E AH-E	154 155
AH-E	156A
AH-E AH-E	157 158
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AH-E	166
AH-E AH-E	167 168
AH-E	169
AH-E	170 171
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AH-E AH-E	174
	יד
AHU-1	002
AHU-1	003
AHU-1 AHU-1	004 005
AHU-1	007
	014
AHU-1	015
AHU-1	142
AHU-1 AHU-1	143
	тс

ROOM NA ME	FLOOR A REA IN SF.	OCCUPANT DENSITY (P <sub>7</sub> )	OA CFM PER PERSON	OA RA TE CFM/SF	OA REQUIRED CFM	AIR CLASS	EXHAUST AIR REOUJIRFD	VENTILA TION RA TE DESIGN	EXHAUST AIR DESIGN
INAME	(A <sub>z</sub> )	(12) Actual	(Rp)	(Ra)	(Vbz)	CLASS	CFM	CFM	CFM
WAITING	288	4	5	0.06	37	1		40	
RECEPTION	180	2	5	0.06	21	1		25	
IT	400	3	5	0.06	39	1		50	
CORRIDOR	252	0	0	0.06	1	1		0	
STORAGE	28	0	0	0.06	1	1		0	
	408	12	5	0.06	85 16	1		100 20	
PROSECUTOR	90	2	5	0.06	15	1		20	
CLERK STORAGE	196	1	5	0.06	17	1		25	
IT CLOSET	20	0	0	0.06	1	1		0	
	408	4	5	0.06	45	1		50	
CORRIDOR	100	0	0	0.06	1	1		0	
	81	2	5	0.06	15	1		20	
	135	4	5	0.12	36 1	1		40	
MEN'S TOILET	48	1	Exhaust	Exhaust	Transfer	2			-75
WOMEN'S TOILET	48	1	Exhaust	Exhaust	Transfer	2	50		-75
CORRIDOR	168	0	0	0.06	1	1		0	
PAYMENTS	112	3	5	0.06	25	1		50	
SERVER ROOM	168	0	0	0.06	1	1		0	
S FOR AH-A & AH-B	3339		F	0.00	358	4		440	
	140	1	5	0.06	13	1		20 15	
STORAGE	112	0	0	0.06	7	1		15	
CORRIDOR	190	0	0	0.06	11	1		15	
OFFICE	280	2	5	0.06	27	1		40	
CORRIDOR	174	0	0	0.06	10	1		15	
ALS FOR AH-C	1008				75			125	
OFFICE	280	2	5	0.06	27	1		40	
OFFICE	220	2	5	0.06	23 15	1		35 25	
AV	140	1	5	0.00	13	1		25	
ALS FOR AH-D	808				78			125	
CORRIDOR	235	0	0	0.06	14	1		20	
INTERVIEW ROOM	130	1	5	0.06	11	1		15	
INTERVIEW ROOM	163	1	5	0.06	14	1		20	
STORAGE	179	0	5	0.06	13	1		20	
	43	2	5	0.06	ح 18	1 2		10 25	-150
	107	0	5	0.12	7	2		10	-150
PROCESSING	55	0	5	0.06	4	1		10	
ENTRY-VESTIBULE	246	0	5	0.06	17	1		20	
WOMENS	68	1	Exhaust	Exhaust	Transfer	2	50		-100
MEN	68	3	Exhaust	Exhaust	Transfer	2	150		-300
UNISEX	50	1	Exhaust	Exhaust	Transfer	2	50		-100
	299	1	5	0.06	25	1		20 50	
STORAGE	58	0	5	0.06	4	1		10	
OFFICE	117	1	5	0.06	10	1		20	
OFFICE	138	1	5	0.06	12	1		20	
OFFICE	139	1	5	0.06	12	1		20	
SECRETARY	506	3	5	0.06	43	1		50	
STORAGE	168	0	5	0.06	12	1		20	
	04 27	0	5	0.06	4	1		10	
	240	1	5	0.06	20	1		25	
ALS FOR AH-E	3343			0.00	255			405	
		1							
LOBBY	123	0	0	0.06	7	1		10	
CORRIDOR	94	0	0	0.06	6	1		10	
KITCHEN	257	5	7.5	0.12	69	2		75	
	200	U C	U 0	0.06	113	1		125 20	
	203	, v	0	0.00	13	1		20	
	580	6	20	0.06	151	2		175	
	1835	150	ວ 5	00.0 0 0	11	1		20 9∩∩	
AUDIO CLOSET	87	0	0	0.06	5	1		10	
LOBBY	1136	- 90	5	0.06	518	. 1		550	
ALS FOR AHU-1	6419				1759		<b>*</b>	1900	

NOTES: A) OUTDOOR AIR ANALYSIS BASED ON ASHRAE STANDARD 62.1 - 2019

					Р	UMP S	CHED	ULE							
SYSTEM 1CHILLE 2HOT W 3PROC 4COOLI	ED WATER VATER HE ESS COOI ING TOWE	R (30% P.G.) ATING LING R		TYPE 3BASE I 4IN - LIN 5HORIZO 6ROTAR	MOUNTED IE CENTRIF ONTAL SPL XY GEAR	CENTRIFUC UGAL IT CASE	<u>-</u> GAL	ELECTRIC 7SEE E 8VARIA 9HIGH 10SHAF	ELECTRICAL ABLE FREQI EFFICIENCA T GROUNDII	_ DRAWING UENCY DRI ( MOTOR NG KIT	ŝs IVE				
MARK	SYSTEM	MFR.	MODEL / SERIES NO.	GPM	CAPA TDH	ACITY FLUID SP. GR.	PUMP EFF.	PUMP TYPE	DESCR SUCTION SIZE	IPTION DISCH. SIZE	IMPLR. SIZE IN.	HP	MOTOR RPM	ELECTRIC	NOTES
CP-1	1	BELL & GOSSETT	e-1510/2BD	120	70 FT	1.22	67.4%	3	2.5"	2"	8.375	7 1/2	1,750	7, 8, 9, 10	1
CP-2	1	BELL & GOSSETT	e-1510/2BD	120	70 FT	1.22	67.4%	3	2.5"	2"	8.375	7 1/2	1,750	7, 8, 9, 10	1
HP-1	2	BELL & GOSSETT	e-1510/1.25BC	65	60 FT	1.00	55.7%	3	1.5"	1.25"	8.875	3	1,547	7, 8, 9, 10	1
HP-2	2	BELL & GOSSETT	e-1510/1.25BC	65	60 FT	1.00	55.7%	3	1.5"	1.25"	8.75	3	1,547	7, 8, 9, 10	1
BP-1	2	BELL & GOSSETT	e-60/1.5x1.5x5.25	45	20 FT	1.00	60.1%	4	1.5"	1.5"	4.94	3/4	1,750	7	1
BP-2	2	BELL & GOSSETT	e-60/1.5x1.5x5.25	45	20 FT	1.00	60.1%	4	1.5"	1.5"	4.94	3/4	1,750	7	1

					AIR D	EVICE SCH	EDULE	$\langle \rangle$			
TYPE						FINISH		MISCELLA	NEOUS		
1CEII 2LOU 3SQU 4ADJ 5ALU 6ExT 7LINE 8INSU	JING DIFFUSER IVERED SUPPLY USTABLE SLOT N. BAR GRILLE FIOR WALL LO AR SLOT DIFFU	( GRILLE DIFFUSER - "FLOWBAR" - TRANSFER DUVER JSER DT DIFFUSER	9BACKDRAF 10LINEAR BAF 11LINEAR BAF 12DOUBLE DE 13ALUMINUM 14INTAKE LOU 15ADJUSTABL 16ALUMINUM	T DAMPER R GRILLE-SUI FL. SUPPLY EGG CRATE JVER .E SLOT DIFI CONTROL DA	PPLY TURN REG. FUSER	20ALUMINUM P 21WHITE ENAM 22STANDARD 23ETCHED & L4 24SEE ARCH. F 25ENAMEL-STE 26304 STAINLES 27PRIME COAT PAINTING BY OTH	OWDER COAT IEL CQUERED OR FINISH O COLOR SS STEEL FOR IERS	30VOLUI 314-WAY 32BIRD \$ 33EXTER 34ALIGN 35BLACH 36INSUL 37SET C	ME DAMPER Y PATTERN ADJ. SCREEN (ALUMINUM) & INSUL. PLENUM MENT STRIPS & INTERNALS . PLENUM BY S/M OUNTERWEIGHT @ 0.	38MOTOR OF 39FILTER & FI 4012" PATTEF 412-POS. CON 42EXTENDED 43EXTENDED (SILL PAN) 05" WG	PER. (BY TCC) RAME IN CONTROLLERS NTROL DAMPER SILL SILL W/END DAM
MARK	DEVICE SIZE	NECK SIZE	DUTY	CFM	TYPE	MFR.	MODEL No.	FINISH	MISC.	CLG./MTG.HT.	NOTES
1	24" x 24"	22" x 22"	RETURN	VARIES	13	PRICE	80D	21	30	CEILING	1
2	12" x 12"	10" x 10"	RETURN	VARIES	13	PRICE	80D	21	30	CEILING	1
2		4"Ø	SUPPLY	25	3	PRICE	SPD	21	30	CEILING	1
J	12" x 12"	4"Ø	SUPPLY	50	3	PRICE	SPD	21	30	CEILING	1
4	24" x 24"	6"Ø	SUPPLY	75	3	PRICE	SPD	21	30	CEILING	1
	24" x 24"	6"Ø	SUPPLY	125	3	PRICE	SPD	21	30	CEILING	1
7	24" x 24"	6"Ø	SUPPLY	150	3	PRICE	SPD	21	30	CEILING	1
/	24" x 24"	6"Ø	SUPPLY	200	3	PRICE	SPD	21	30	CEILING	1
	24" x 24"	8"Ø	SUPPLY	250	3	PRICE	SPD	21	30	CEILING	1
9	24 x 24 24" x 24"	8"Ø	SUPPLY	275	3	PRICE	SPD	21	30	CEILING	1
10	24 x 24	90 8"Ø		275	3			21	30		1
11	24 X 24	<u>ل</u> و ن 10"0		350	2			21	30		1
12	24 X 24	10 0	SUPPLY	300	ు	PRICE	570	21	3U 30		1
13	24" X 24"		SUPPLY	400	3	PRICE	570	21	30		1
14	24" X 8"	24" X 8"	BACKDRAFT	VARIES	9	GREENHECK	BR-30	22	37	PLENUM	
15	24" x 12"	24" x 12"	BACKDRAFT	VARIES	9	GREENHECK	BR-30	22	3/	PLENUM	
16	18" x 18"	18" x 18"	BYPASS	2,250	16	GREENHECK	VCD	22	38	PLENUM	
17	24" x 24"	6"Ø	SUPPLY	100	3	PRICE	SPD	21	30	CEILING	1
18	24" x 24"	8"Ø	SUPPLY	225	3	PRICE	SPD	21	30	CEILING	1
19	12" x 12"	5"Ø	SUPPLY	150	3	PRICE	SPD	21	30	CEILING	1
20	24" x 24"	8"Ø	SUPPLY	225	3	PRICE	SPD	21	30	CEILING	1
21	12" x 12"	4"Ø	SUPPLY	100	1	PRICE	MSRRCD (4-WAY)	21	30	CEILING	1, 2
22	8" x 8"	6" x 6"	EXHAUST	100	13	PRICE	80D	21	30	CEILING	1
23	10" x 10"	8" x 8"	EXHAUST	300	13	PRICE	80D	21	30	CEILING	1
24	38" x 6"	36" x 4"	SUPPLY	375	10	PRICE	LBMH26C	24	30	FLOOR	1
25	50" x 6"	48" x 4"	SUPPLY	500	10	PRICE	LBMH26C	24	30	FLOOR	1
26	68" x 54"	68" x 54"	INTAKE	VARIES	14	GREENHECK	ESD-603	22	32, 34, 43	WALL	
27	24" x 24"	24" x 24"	INTAKE	VARIES	16	GREENHECK	ICD-45	22	38, 41	WALL	
28	32" x 32"	32" x 32"	INTAKE	VARIES	14	GREENHECK	ESD-603	24	32, 34, 43	WALL	
29	32" x 32"	32" x 32"	INTAKE	VARIES	16	GREENHECK	ICD-45	22	38, 41	WALL	
30	36" x 36"	36" x 36"	EXHAUST	VARIES	16	GREENHECK	ICD-45	22	38, 41	DUCTWORK	1
31	14" x 14"	12" x 12"	RETURN	750	13	PRICE	80D	21	30	DUCTWORK	1
32	14" x 14"	12" x 12"	SUPPLY	750	12	PRICE	22DAI	21	30	DUCTWORK	1
33	12" x 8"	10" x 6"	SUPPLY	150	12	PRICE	22DAL	21	30	CEILING	1
34	24" x 24"	6"Ø	SUPPI Y	175	3	PRICF	SPD	21	30	CEILING	1
25	14" x 14"	12" x 12"	TRANSFER	325	2	PRICE	91	21		W/AI I	12" AFF
36	30" x 54"	30" x 54"			<u>د</u> 1 <u>4</u>	GREENHECK	ESD-603	21	32 34 43		
27	10" v 10"	00 x 04 0" v 0"		125	17		<u>200-000</u>	24	J2, J4, 4J 20		1
3/				120	13			21	<u>ال</u> 20		 
38	TT X 11"	9" X 9"		245	13	PRICE	UUX	21	3U 20		1
39	24" X 24"	10"0	SUPPLY	425	<u>ئ</u>	PRICE	SPD	21	<u>30</u>	CEILING	1
40	12" x 12"	4"Ø	SUPPLY	125	1	PRICE	MSRRCD(4-WAY)	21	30	CEILING	1, 2

							FAN	SCHEDUL	E						
FAN TYI	ЪЕ							ELECTRICAL DA	ГA			MISCELL	ANEOUS		
1CEN 2AIRF 3BACI 4FOR 5IN-LII 6PRO 7CEIL	TRIFUGA OIL KWARD WARD C NE PELLER ING EXH	NL INCLINED CURVED		11PLEN 12UTILIT 13PROP 14UP-BL 15HOOE 16SIDEV 17DUCT	UM Y SET ELLER-P/ AST ROC DED ROO VALL	ANEL MC F F UNIT	OUNT UNIT	20REFER TO E 21INTEGRAL S 222-SPEED MC 23VARI-GREEN 24MANUAL ST 25MOTION SEN 26VARIABLE F	LECTRICAL DI AFETY SWITC TOR & SWITC SPEED CON ARTER W/PILC NSOR W/15 MI REQUENCY D	RAWINGS H TROLLER DT LIGHT N. TIME DE RIVE	LAY	30RO0 31BIRI 32SPR 33REV 34HIGI 35ALU	DF CAP W/BIRD D SCREEN (ALU NG ISOLATOR /ERSE ACTING H EFFICIENCY M JMINUM CURB C	SCREEN & ( MINUM) HANGER KI THERMOST, MOTOR XAP ADAPTE	CURB IT AT ER
MARK	CFM	SERVES	SP IN. WG	FAN RPM	HP OR WATTS	FAN TYPE	MFR.	MODEL No.	DUTY	BUILDING OPENING	DRIVE	WHEEL DIA.	ELEC. DATA	MISC.	NOTES
EF-1	75	ROOM 119	0.375	850	13.4	7	GREENHECK	SP-A90-VG	EXHAUST	8" Ø	DIRECT		20,21,23	30,32	1
EF-2	75	ROOM 118	0.375	850	13.4	7	GREENHECK	SP-A90-VG	EXHAUST	8" Ø	DIRECT		20,21,23	30,32	1
EF-3	125	ROOM 166	0.375	940	22.4	7	GREENHECK	SP-A130-VG	EXHAUST	8" Ø	DIRECT		20,21,23,24	30,32	1
EF-4	100	ROOM 112	0.375	1,020	17	7	GREENHECK	SP-A110-VG	EXHAUST		DIRECT		20,21,23	32,33	1
EF-5	600	ROOM 154/155	0.250	1,710	1/10	1	GREENHECK	G-090-VG	EXHAUST		DIRECT		20, 21, 23,	31, 35	4
EF-6	500	RESTROOMS	0.250	1,528	1/10	1	GREENHECK	G-090-VG	EXHAUST		DIRECT		20, 21, 23,	31, 35	4
EF-R RF-1	2,000 9,500	ATTIC AHU-1	0.250 0.750	662 449	3/4 3	16 5	GREENHECK GREENHECK	CUE-180-VG QEI-36	EXHAUST RELIEF	30"x30" 	DIRECT BELT	 	20, 21, 23 20, 26	31 32, 34	3
NOTE: 1)	MAXIMU	JM INLET SOUNI	DLEVEL	SHALL BE	2.5 SON	ES (AMC	A 311 AT 5.0 FT)	\$	90	1		1	<u>.</u>	<u>.</u>	<u></u>

NOTES: 1.) CIRCULATING WATER PUMP SELECTIONS ARE BASED BELL & GOSSETT MODEL NUMBERS, OR APPROVED EQUAL, SEE SPECIFICATIONS.

NOTE: 1.) AIR DEVICES SELECTION BASED ON PRICE MODEL NUMBERS. TITUS CONSIDERED EQUAL 2.) PROVIDE TAMPER-PROOF BOLTS AS REQUIRED.



Sheet Title HVAC - Schedules

Project I	Project Number											
2023-	215 / HL#6695											
Date												
April	03, 2024											
Date	Issue											
07.03.24	90% CD											
08.07.24	FINAL REVIEW											
08.30.24	<b>BID/CONSTRUCTION SET</b>											















- Locate ¾ distance down longest duct

									_																										<b></b>			-
		AN	IAL	.00	) I	١٩٧	UTS	S			DI	GIT	AL				οι	JTF	UT	S				S	SYS	STE	M	FE	EAT	UF	RE	S				GE	N-	
AIR HANDLING	м	EA	รบ	RE	D	С	:AL	с.			IN	PU	TS			D,	/0		A,	/0		Al	_AF	RMS	S			P	RO	GF	RS	MS	;			ĒR	AL	
				Τ	Π	Τ		Π	T		Π				T		Π		Π	Τ	Π		Π		Γ	Τ	Π			Π	Π	$\square$	Τ	Π	ſŤ	$\square$	Π	
ONII = AIIO = I																														ĺ								
		5 MG																											z	ĺ	ŊĊ		ZATION	->				
		Z								~								A L	E E E	цШ								NO	ZATIOI	ĺ	COOL	VTION	START	11111				
	RE	PSID	5		XIDE				SWITC	ENSO	л	DSURE	2		FLAY	S		SDIIOSI	NSDU(			ы П					),	MIZATI	IMITAC	DTAL	-REE		JL RE ≜IR (	ACK	⊆ ⊡_ī	л НПС		
	RATUR	PSIA.	NO		N DIC				11RF	ENTS	SWITC			RIP	LC R	IOID	CTOR	TRAN	TRAI	Vdc N		ENANC					IME	OPTI	μΥ	ME_TC	TIME	R OF	ARGF	SETB	SETU	A GRA		
POINTS LIST	TEMPE		OSITI	LOW	CARBO				PRFSC	CURRE	-LOW	SWITCH		/FD T	CONTR	SOLEN	CONTA	NFU	ELECT	4-20 0-10			ALARM					START	ENTHA RESET	RUNTII	NIGHT	DAMPE	POWER	NIGHT	VIGHT	CULUL		
AIR HANDLING SYSTEM:						╋	T		T					_	Ť						Ħ												1				Ħ	•
SUPPLY FAN (VFD)			•											•									•			•	•	•			Π		T	Π				
SUPPLY FAN STATUS																															ľ			$\Box$	$\square$			
SUPPLY DUCT PRESSURE																																						
OUTSIDE AIR FLOW STATION				•																																		
AIXED AIR PRESSURE		•																																				
ECONOMIZER DAMPER CONTROL																				•										Í					Ш			
HEATING COIL VALVE CONTROL																				•															Ш			
COOLING COIL VALVE CONTROL																				•															Ш			
D.A. DAMPER CONTROL																				•															Ш			
RETURN AIR TEMPERATURE																																			Ш			
RETURN AIR DUCT HUMIDITY																																			Ш			
AIXED AIR TEMPERATURE																																			Ш			
SUPPLY AIR TEMPERATURE																																			Ц			
OW LIMIT THERMOSTATS	Ш																																		Ц			
DUCT SMOKE DETECTORS	Ш																						$\bullet$												Ц			
CO2 MONITIORING SENSOR (2)	Ш																																		Ц			
SPACE STATIC PRESSURE	Ш																			•														$\square$	Ц			
RELIEF FAN (VDF)	Ш		•											•	•											•	•	•							Ц			
RELIEF FAN STATUS	Щ		$\square$		$\square$			Ш			$\prod$				$\perp$		$\prod$		$\square$		$\prod$		Щ		$\square$						Ш		$\downarrow$	$\square$	Ц		$\square$	
RELIEF DAMPER CONTROL	Щ		$\square$		$\square$			Ш			Щ						Ц		$\prod$	•			Щ		$\square$					L	Ц	$\square$	$\downarrow$	$\square$	Ц	$\bot$	$\square$	-
	Ш																																					

	ANALOG I	NPUTS	DIGITAL	OUTPUTS	S	STEM FEATURES	GEN-
ROOFTOP UNIT	MEASURED	CALC.	INPUTS	D/O A/O	ALARMS	PROGRAMS	ERAL
AH-E							
	M		SIDE			00LINC 1MIZA	
	JRE HUMIDITY A, PSID,		SWITCH SENSOR CCH OSURE IACT Y OVERF	RELAY R ANSDUCE MODULE MODULE	ATUS ICE	EDULING IMITING OPTIMIZATIO OPTIMIZ FREE C FREE C F	APHIC
POINTS LIST	TEMPERATURE RELATIVE PSIG, PSIA POSITION FLOW		PRESSURE CURRENT FLOW SWI SWITCH CL SWITCH CL AUX. CON KW VFD TRIP OCCUPANC	CONTROL SOLENOID CONTACTO CONTACTO CONTACTO CONTACTO ELECT. TR/ ELECT. TR/ ELECT. TR/ 0-10 Vdc	EQUIP. ST. MAINTENAN ALARM HIGH LIMIT LOW LIMIT	TIME SCHE DEMAND L ENTHALPY ENTHALPY RESET NIGHTTIME DAMPER C POWER /F DISCHARGE DISCH	COLOR GR
AIR HANDLING SYSTEM (*):							
SUPPLY FAN (START/STOP)							
SUPPLY FAN STATUS							
EXHAUST FAN (VFD)							
EXHAUST FAN STATUS							
ECONOMIZER DAMPER CONTROL							
MINIMUM O.A. DAMPER CONTROL							
RETURN AIR TEMPERATURE							
MIXED AIR TEMPERATURE							
SUPPLY AIR TEMPERATURE							
LOW LIMIT THERMOSTATS							
DUCT SMOKE DETECTORS							
SPACE DIFFERENTIAL PRESSURE							

(\*) AIR HANDLING UNIT CONTROLLER SHALL BE PROVIDED WITH BACNET COMMUNICATION CARD, TEMPERATURE CONTROLS CONTRACTOR SHALL MAP POINTS TO BUILDING AUTOMATION SYSTEM

		AN	AL	OG	IN	IΡl	JTS			D	IGI	TAL	_			οu	TP	UTS	5				S	SYS	STE	EM.	FE	EAT	ÛF	۶ES	3			ļ	EN	_
VAV BOXES	м	EAS	SUF	RE	5	C	ALC	2.		IN	١٩	JTS	5		D,	/0		A/	0		A	LAF	RMS	s			Ρ	RC	)GF	<b>S</b> AN	١S			Ē	RA	L
WITH REHEAT		SID, IN. WG		R	(IDE				WITCH	NSUR T	sure	L.		AY			DUCER	SDUCER		(III)	CUIAIO				DLING	DVERRIDE	ZATION	TIMIZATION	AL	REE COOLING	IMIZATION RFSTART		CK	HIC		
POINTS LIST	TEMPERATURI	PSIG, PSIA,	POSITION	POTENTIOMET	CARBON DIO	AIR FLUW			PRESSURE S	FLOW SWITCH	SWITCH CLOS	AUX. CONTAC KW		CONTROL RF	SOLENOID	CONTACTOR	PNEU. TRANS	ELECT. TRAN	INCREMENTAL	0-10 VDC	MAINTENANCE	ALARM	HIGH LIMIT		TIME SCHEDU	DEMANU LIMI	START OPTIM	ENTHALPY OF	RUNTIME TOT	NICHTTIME FI	DAMPER UPI POWER /FAII	DISCHARGE /	NICHT SETBA	COLOR GRAP		
VAV REHEAT BOX (*):																																		•		
SPACE TEMPERATURE	•																					•														
SPACE TEMPERATURE SET POINT	•																					•														
AIR VOLUME DAMPER CONTROL																			•																	
AIR FLOW TRANSMITTER		•																																		
MODULATING REHEAT VALVE CONTROL																				•																
OCCUPANCY OVERRIDE																										•	<b>)</b>									
SUPPLY AIR FLOW TEMPERATURE																						•														

(\*) REFER TO TEMPERATURE CONTROL SPECIFICATIONS SECTION.

		ANAL	OG	INF	PUTS			DIG	ITA	L		0	UTF	PUT	S			SI	/STE	M	FEA	τu	JRE	.S				EN-
MATTER SYSTEM	ME	EASUF	RED		CALC	).		INP	UTS	S		D/O	5	A,	/0	A	LAF	RMS			PR	00	RA	MS			Ē	RAL
WATER SYSTEM B-1, $B-2$ , BP-1, $BP-2$ , UD - 4, $UD - 2$ ,		I. WG																			NOL		OLING	N	IMIZATION			
HP-1, AND HP-2	ure Humidity	A, PSID, IN		GE (%)			SENSOR	TCH LOSURE	TACT		RELAY	<u>а</u>		ANSDUCER	ADDULE	T STATUS			EDULING	ON	TIMIZATION OPTIMIZAT		FREE CO	PTIMIZATIC	E AIR OPTI	TBACK	2. RAPHIC	
POINTS LIST	TEMPERAT RFI ATIVF	PSIG, PSIA POSITION		PERCENTA			PRESSURE CURRENT	FLOW SWI SWITCH CI	AUX. CON	VFD TRIP	CONTROL	SOLENOID		ELECT. TR	4-20 MA 0-10 V N	EQUIPMEN	ALARM	HIGH LIMI LOW LIMIT	TIME SCH	ALTERNATI	START OP ENTHALPY	RESET	RUNTIME NIGHTTIME	DAMPER (	DISCHARG	NIGHT SET NIGHT SET	COLOR GF	
HOT WATER SYSTEM:																								$\square$				
BOILER ENABLE																												
BOILER STATUS																												
BOILER ALARM STATUS																								Ш				
BOILER LOW WATER LEVEL																		•						Ш				
BOILER HOT WATER SUPPLY TEMPERATURE																												
BOILER HOT WATER RETURN TEMPERATURE																												
BOILER FIRING RATE				•																								
HOT WATER SUPPLY TEMPERATURE SET-POINT																								Ш				
OUTSIDE AIR TEMPERATURE																												
HOT WATER PUMP BP-1 START/STOP											•													Ш				
HOT WATER PUMP BP-1 STATUS							•																	Ш				
HOT WATER PUMP BP-2 START/STOP											•													Ш				
HOT WATER PUMP BP-2 STATUS							•																	Ш				
HOT WATER PUMP HP-1 CONTROL (VFD)																												
HOT WATER PUMP HP-1 STATUS							•																					
HOT WATER PUMP HP-2 CONTROL (VFD)																												
HOT WATER PUMP HP-2 STATUS																								Ш	$\square$		$\prod$	
COMBUSTION AIR DAMPER									١Ţ																			
VENT EXHAUST SYSTEM START/STOP											•																	

(\*) NEW BOILER CONTROLLER SHALL BE PROVIDED WITH BACNET COMMUNICATION CARD INTERFACE. TEMPERATURE CONTROLS CONTRACTOR SHALL MAP POINTS TO BUILDING AUTOMATION SYSTEM.



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## EQUIPMENT DATA

BOILER POWER VENT SYSTEM: MARK ...... CF-1

# **ENERVEX CASI 160-250**



## **System Components and Specifications**

Model	Fan	Co	ontrol	MSC	Ap	lf 3+ opliances	Por Sup Mi	wer oply SC	Max Inpu Am to M	x. ut p SC	Max. Output Fan HP	RPM	
		EBC	24, incl.			50.40							
CASI 250	TDF 250	xiPa pi	nd duct- robe	MSC 00	51	ES12	120/	1/60	2.3	3	.5	2000	
Wiring	·		Wir Ratii	e     1g	Rating Amps	No. Lea	of ds	M Ler	ax. 1gth	Wi	Min., re Gauge	All wirin codes,	g must comply with local and in their absence, the
EBC 24 Po	wer Supply		600	V	6.3	3		r	**		14	Nationa	al Electrical Code, NFPA 70.
XTP Contro	l Circuit		-		<0.01	3		30	00'		24	NOT	E: All wiring must be
Fan Power	Supply		600	V	-	4		30	20'		14		
Appliance C	Control Circuit	t	**		**	4		1	k*		**	nobe	tact ENERVEX for job-specific
MSC Contr	ol Circuit		-		<0.1	4		30	00'		24	** Job	specific - check local code
MSC Powe	r Supply		600	V se	e above	, 4		,	**		**	1	1

#### ENERVEA **TDF 250 POWER VENTER**

020.1092.0621 12.22 **Product Information** 

The TDF Power Venter is a true in-line power venter. It is specifically designed for applications where reliable and efficient operation, low noise level, low energy consumption, variable speed and compact design are of utmost importance. Typical applications are: mechanical venting of gas-fired or oil-fired boilers and water heaters. For indoor or outdoor installation.

#### Description

The TDF Power Venter is an efficient, high-temperature ventilator with backward-inclined impeller. It can be installed horizontally or vertically in a chimney system. The fan housing is made of stainless steel and equipped with an

energy-efficient, totally enclosed, variable speed motor, which is mounted outside the air stream. The complete drive unit (motor, impeller and mounting plates) can

be removed from the fan without the need for removing the housing from the stack system. The TDF is for use with condensing and non-condensing appliances operating where flue gas temperatures do not exceed 1400°F

(760°C). The TDF model is a component in the CASI, Chimney Automation Svstem.

nnection. The impeller is of the backward inclined type made c

Material housing is made of 316L stainless steel and has flanged

#### 6L stainless steel. Motor

The motor is a TEFC air cooled, maintenance-free variable speed permanent magnet motor with pre-lubricated and sealed ball bearings and a Class H temperature rating. The motor with controller is rated at 92% efficiency and able to operate as low as 50 RPM. It has integrated protection against overloading, blocking over and under voltage and over-heating. The motor shaft is internally isolated to eliminate the need for external shaft grounding. It is rated for outdoor installation.

The included EDrive motor control (NEMA4X) is factory programmed by ENERVEX for optimal operation of the ventilator.

#### Standard Equipment EDrive Motor Control V-Bands (where used)



**Specifications** 

Model	TDF	250
Fan Type	Centrifugal Imp	eller (BC-Wheel)
Motor Type	ECM, Perma	nent Magnet
Voltage Configuration	1 x 120 VAC	3 x 208-240 VAC
EDrive Model	321.0906.1200	321.0906.2200
EDrive Ratings:		
NEMA / IP Rating	4X /	IP66
Supply Voltage - VAC	1 x 120	3 x 208-240
Power - kW	0.37	0.37
Max Input Current - Amp	7.8	3.4
Max Output Current - Amp	2.3	2.3
Max Over-Current - %	17	75
Min Operating Temp °F / °C	-4 /	-20
Max Operating Temp °F / °C	104	/ 40
Motor Ratings:		
Motor Efficiency Class	IE	5
Temperature Class	ŀ	4
NEMA / IP Rating	3S /	IP55
Max Current - Amp	3	.3
Max Speed - RPM	31	00
Power - kW / HP	0.81	/ 1.1
Torque - Nm		3
Motor Operating Settings:		
Fan Speed - RPM	20	00
Max Power - kW / ~ HP	Not Av	vailable
Max Torque - Nm	Not Av	vailable
Weight:		
TDF - Ibs / kg	61,	/ 28

EDrive - lbs / kg 5.5 / 2.5 Note: Use EDrive Ratings Data for Circuit Sizing



#### **Optional Accessories**

 EBC 30/31 Modulating Pressure Controller EBC 35 Modulating Pressure Controller

- EBC 24 Modulating Pressure Controller
- BDC 8 Modulating Pressure Controller Adapter Transitions

# Listings

UL Listing under Category MCQX and ZACT under File No. E467733 and reference to the following standards:

- UL 378 Standard for Draft Equipment Edition 4 UL 705 Standard for Power Ventilators Edition 6
- CSA C22.2 No. 113-12 Fans and Ventilators Edition 9
- ULC/ORD-C378-75 Guide for the Investigation of Draft Equipment Edition 1

## Warranty

- 2-Year Factory Warranty 10-Year Warranty Against Corrosion Perforation
- Complete warranty conditions are available from ENERVEX Inc.

## Dimension



Model			TDF 250
Duct Connecti	on		½" flange
	A	in / mm	24.0 / 610
	В	in / mm	17.0 / 432
Dimensions	C	in / mm	16.0 / 406
	D	in / mm	18.0 / 457
	E	in / mm	19.3 / 489
	F	in / mm	19.3 / 489
Flange Bolt Ce	enter Diameter	in / mm	- / -
Temp Rating*		°F/°C	1400 / 760
* Maximum Int	termittent Temper	ature Rating	]

8/29/

# **EBC 24 MODULATING FAN CONTROL**

#### 020.3050.0421 02.24

#### **Product Information**

The EBC 24 is a Modulating Fan Control used with up to two appliances to monitor and maintain a constant draft or pressure in a chimney or duct. This is achieved by modulating the speed of a chimney fan or ventilator. The EBC 24 can be used with models RSV, BESF, BEF, BPV, SFTA and TDF. It can control the fan speed directly or via a EDrive motor controller. The EBC 24 is typically used to control the draft in systems

requiring one or two boilers or water heaters. It also can be used in combustion only applications. Description

The control monitors the draft in a chimney system via connection to a bi-directional pressure sensor (XTP) attached to the chimney, and maintains it by modulating the fan speed. The control has an integrated safety system that assures the heating appliance is shut down in case of fan failure or control failure.

The use of the EBC 24 is not restricted to any type of fuel or type of heating appliance. When the appliance thermostat closes and calls for heat, the control will send voltage to the chimney fan or EDrive. When the necessary draft is achieved, the control will allow boiler firing and regulate the voltage to the fan or EDrive, so the required draft is maintained (the value can be viewed in the display). In case of insufficient draft, the control will assure the burner will be shut down after 15 seconds (Can be adjusted). When the appliance has satisfied the thermostat and shuts down, the control will turn off the

The control can be used in one of two ways: Interlocked with the appliance to pre-purge the chimney prior to
 Standard Equipment boiler start-up and post-purge the chimney for a variable time

after boiler shut down • Set to run the fan continuously

The control has an integrated safety function. It can be operated with either a manual reset function (reset button) or an automatic reset function. All terminal connections are monitored by LEDs for easy service and troubleshooting.

Material Enclosure is made of polycarbonate and is NEMA 4x rated.

- EBC 24 Control Unit
- XTP Sensor Stack Probe
- Silicone Tubing
- Jumpers
- Listings The EBC 24 is UL Listed in the U.S. and certified for Canada under
- Underwriters Laboratories Inc. file no. E484712: • ANSI/UL 60947-1 & 60947-4-1 Switches, Industrial Control
- CSA C22.2 No. 14-10 Standard for Industrial Control Equipment
- Approvals

Warranty

Product Information

- CE Compliant Manufactured at ISO9001 certified plant
- 2-Year Factory Warranty. Complete warranty conditions are available from ENERVEX Inc. LISTED UL File E48471: **XTP DIFFERENTIAL PRESSURE SENSOR**

#### 020.3031.1220 05.21

The XTP Differential Pressure Sensor is an external bi-directional pressure transducer that monitors pressure and sends a signal to a modulating fan control.

Description

The transducer converts measured pressure into a corresponding voltage, which is then relayed to the control to modulate the damper position and/or fan speed — thus regulating pressure at the set-point.

The transmitter uses a patented Si-Glas™ variable capacitance sensor. This MEMS sensor provides extraordinary sensitivity and long term stability. New digital compensation is accomplished using a highly reliable application specific integrated circuit (ASIC).

Warranty 2-Year Factory Warranty. Complete warranty conditions are available from ENERVEX Inc.

**Specifications** ower Supply 12-36 nperage VDC utput 0-10 °F/°C 0 to 160 / -18 to 71 Operating Temperature inWC/Pa -1.0-+1.0/-inWC/Pa +/-0.25% D in/mm 3.70/94 T-1.0-+1.0 /-250-+250 Range of Operation Accuracy E in/mm F in/mm G in/mm 5.12/130 mensions 6.18/157 3.13/80 lbs/kg 0.6/0.3





# **BBF BALANCING BAFFLE**

# 3912003 02.24

Use

The BBF Balancing Baffle is a fixed position damper used to properly balance the draft in a boiler connector. It is for installation with gas-fired or oil-fired equipment only.

#### Description

The BBF Balancing Baffle is a single blade, single position stainless steel baffle with hand quadrant. The BBF is available in standard stack diameters ranging from 4" to 36". Once the vent system has been properly balanced, the baffle is permanently fixed into position and will retard the flow of flue gases as needed.

The BBF Balancing Baffle is manufactured to connect to chimneys with a standard 1/2" flanged connection. The BBF is rated for temperatures up to 1400°F (760°C).

Material The shell and blade are made of 20 GA 316L stainless steel The shaft is 1/2" (13mm) round 316L stainless steel. The hand quadrant position is to be locked with a nylock nut. Bearings are

#### Standard Equipment

# V-Bands

stainless steel.

Listings The BBF is UL listed in the US and certified for Canada under Underwriters Laboratories Inc. file no. MH61094:

UL 378 Standard for Draft Equipment

ULC/ORD-C378 Draft Equipment

Specifications 
 Model
 Stack ID in / mm
 Dim. A in / mm
 Dim. B in / mm
 Dim. C in / mm

 BBF 8
 8
 7.87 / 200
 8.82 / 224
 10.83 / 275



**Product Information** 



		ANA	ALO	G IN	NPL	JTS		DIG	ITA	L		ου	TPU	ſS			S١	rsti	ΞМ	FEA	ΑTU	RE	S			GF	N—
	M	EAS	UR	ED	С	ALC.	1	INF	UT	S		0/0	A	/0	A	LAF	RMS			PR	OG	RA	MS			ËR	AL
SYSTEM ACC-1, CP-1, AND CP-2	YTIC VII	ID, IN. WG					TCH	۲. ۲.					JCER UCER	ULE	ATUS			NG	RC	ATION MIZATION		E COOLING	IZATION RESTART	OPTIMIZATION		0	
POINTS LIST	TEMPERATURE RFLATIVE HUMI	PSIG, PSIA, PS	FLOW				PRESSURE SWI	FLOW SWITCH SWITCH CLOSILI	AUX. CONTACT	kw VFD TRIP	CONTROL RELA	SOLENOID CONTACTOR	PNEU. TRANSDI ELECT. TRANSD	4-20 MA MOD INCREMENTAL	0-10 VDC EQUIPMENT ST/	MAIN LENANCE ALARM	LOW LIMIT	TIME SCHEDULI	DEMAND LIMITIN ALTERNATION	START OPTIMIZA ENTHALPY OPTI	RESET	NIGHTTIME FRE	DAMPER OPTIM POWFR /FAIL F	DISCHARGE AIR	NIGHT SETUP	COLOR GRAPHI	
CHILLED WATER SYSTEM:									Ш								Ш							Ш			
(*) CHILLER ENABLE /DISABLE		Ш						Ш	Ш										•					Ш			
(*) CHILLER STATUS																								Ш			
(*) EXTERNAL CHILLED WATER SET POINT														•										Ш			
(*) CHILLED WATER SUPPLY TEMPERATURE	•															•											
(*) CHILLED WATER RETURN TEMPERATURE	•															•											
(*) CHILLER ALARM STATUS																•											
(*) EXTERNAL CURRENT LIMIT SET POINT																											
(*) COMPRESSOR RUNNING STATUS																											
(*) MAXIMUM CAPACITY STATUS									$\bullet$																		
(*) DIFFERENTIAL PRESSURE																									Π		
(*) CHILLED WATER FLOW SWITCH							Π		Π		Π					Π								Π	Π		Π
							Π	Π	Π		Π		П			Π						Π		Π	Π		Π
2 CHILLED WATER PUMPS START/STOP							Π	Π	Π		•		П			Π			•	•				Π	Π		Π
2 CHILLED WATER PUMPS CONTROL (VFD)							Π	Π	Π		Π		П	•		Π			•			Π		Π	Π		Π
2 CHILLED WATER PUMP STATUS		Π	Π						Π	Π	Π		П			•								Π	Π		Π
		Π	•				П		Π	Π	Π		П			Π					Π	Π		Π	Π		Π
DIFFERENTIAL PRESSURE (SYSTEM)			Π						Π	$\prod$	$\prod$		$\prod$					$\square$				Π		$\prod$	Π		$\square$
MAIN CHILLED WATER SUPPLY TEMPERATURE	•	Π	Π						Π	$\prod$	Π					•		$\square$				Π		$\prod$	Π	T	
MAIN CHILLED WATER RETURN TEMPERATURE	•															•									Π		
OUTDOOR AIR TEMPERATURE	•																										

(\*) EXISTING AIR COOLED CHILLER, TEMPERATURE CONTROLS CONTRACTOR SHALL COORDINATE THE NEW UPC OPEN BOARD PROGRAM, INTEGRATE AND MAP POINTS TO THE EXISTING BUILDING AUTOMATION SYSTEM.

	ANALOG II	NPUTS	DIGITAL	OUTPUTS	SYSTE	GEN-		
MISCELLANEOUS	MEASURED	CALC.	INPUTS	D/0 A/0	ALARMS	PROGRAMS	ERAL	
POINTS	IN. WG	IDE		r Œ		N ATION DOLING DOLING ION TIMIZATION		
	URE HUMIDITY A, PSID, METER NIOXIDE	Y OVERR	SWITCH SENSOR TCH LOSURE TACT	RELAY R ANSDUCE ANSDUCE MODULE TAL	T STATUS VCE EDULING	Imitino OPTIMIZATIOI TOTAL FREE CI FREE CI FREE CI FREE CI FREE CI FREE CI FREE CI FREE CI FREE CI	SAPHIC	
POINTS LIST	TEMPERATI RELATIVE PSIG, PSIJ POSITION FLOW POTENTIOM CARBON D	AIR FLOW OCCUPANC	PRESSURE CURRENT FLOW SWI SWITCH CI AUX. CON KW	CONTROL SOLENOID CONTACTO CONTACTO CONTACTO CONTACTO ELECT TR ELECT TR ELECT TR ELECT TR O - 10 VDC	EQUIPMEN MAINTENAN MAINTENAN HIGH LIMIT LOW LIMIT LOW LIMIT TIME SCHI	DEMANU LI START OP ENTHALPY ENTHALPY RESET NIGHTTIME DAMPER POWRER FR DAMPER FR DISCHARG	COLOR GF	
MISCELLANEOUS POINTS:								
SPACE TEMPERATURE AVERAGE SENSORS								
EXHAUST FAN START /STOP (EF-R)								
EXHAUST FAN STATUS (EF–R)								
O.A. DAMPER CONTROL								
ATTIC HUMIDITY SENSOR	$\bullet \bullet $							
ATTIC TEMPERATURE SENSOR								
ATTIC UNIT HEATERS STATUS								





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#### 1 VARIABLE AIR VOLUME MODULAR AIR HANDLING UNIT - AHU-1

RUN CONDITIONS - REQUESTED: THE UNIT SHALL RUN WHENEVER:

ANY ZONE IS OCCUPIED.

OR A DEFINABLE NUMBER OF UNOCCUPIED ZONES NEED HEATING OR COOLING.

FREEZE PROTECTION: THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A FREEZESTAT STATUS.

HIGH STATIC SHUTDOWN: THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING AN HIGH STATIC SHUTDOWN SIGNAL.

RETURN AIR SMOKE DETECTION: THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A RETURN AIR SMOKE DETECTOR STATUS.

AHU OPTIMAL START: THE UNIT SHALL START PRIOR TO SCHEDULED OCCUPANCY BASED ON THE TIME NECESSARY FOR THE ZONES TO REACH THEIR OCCUPIED SETPOINTS. THE START TIME SHALL AUTOMATICALLY ADJUST BASED ON CHANGES IN OUTSIDE AIR TEMPERATURE AND ZONE TEMPERATURES.

SUPPLY FAN: THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

- ALARMS SHALL BE PROVIDED AS FOLLOWS:
- SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON. SUPPLY FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

SUPPLY AIR DUCT STATIC PRESSURE CONTROL: THE CONTROLLER SHALL MEASURE DUCT STATIC PRESSURE AND SHALL MODULATE THE SUPPLY FAN VFD SPEED TO MAINTAIN A DUCT STATIC PRESSURE SETPOINT OF 1.5IN H2O (ADJ.). THE SUPPLY FAN VFD SPEED SHALL NOT DROP BELOW 30% (ADJ.).

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25% (ADJ.) GREATER THAN SETPOINT • LOW SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25% (ADJ.)
- LESS THAN SETPOINT.

SUPPLY FAN VFD FAULT

RETURN FAN: THE RETURN FAN SHALL RUN WHENEVER THE SUPPLY FAN RUNS. ALARMS SHALL BE PROVIDED AS FOLLOWS:

- RETURN FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- RETURN FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON. RETURN FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).
- RETURN FAN VFD FAULT.

BUILDING STATIC PRESSURE CONTROL: THE CONTROLLER SHALL MEASURE BUILDING STATIC PRESSURE AND MODULATE THE RETURN FAN VFD SPEED TO MAINTAIN A BUILDING STATIC PRESSURE SETPOINT OF 0.05IN H2O (ADJ.). THE RETURN FAN VFD SPEED SHALL NOT DROP BELOW 20% (ADJ.).

- ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH BUILDING STATIC PRESSURE: IF THE BUILDING AIR STATIC PRESSURE IS 25% (ADJ.) GREATER THAN SETPOINT • LOW BUILDING STATIC PRESSURE: IF THE BUILDING AIR STATIC PRESSURE IS 25% (ADJ.)

LESS THAN SETPOINT. PREHEATING COIL VALVE: THE CONTROLLER SHALL MEASURE THE MIXED AIR TEMPERATURE AND MODULATE THE PREHEATING COIL VALVE TO MAINTAIN ITS SETPOINT 5°F (ADJ.) LESS THAN THE SUPPLY AIR TEMPERATURE SETPOINT.

- THE PREHEATING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS LESS THAN 60°F (ADJ.).
- AND THE ECONOMIZER (IF PRESENT) IS DISABLED. AND THE SUPPLY FAN STATUS IS ON.
- THE PREHEATING COIL VALVE SHALL OPEN FOR FREEZE PROTECTION WHENEVER: MIXED AIR TEMPERATURE DROPS FROM 40°F TO 35°F (ADJ.).
- OR THE FREEZESTAT (IF PRESENT) IS ON.

SUPPLY AIR TEMPERATURE SETPOINT - OPTIMIZED: THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE AND SHALL MAINTAIN A SUPPLY AIR TEMPERATURE SETPOINT RESET BASED ON ZONE COOLING AND HEATING REQUIREMENTS

THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET FOR COOLING BASED ON ZONE COOLING REQUIREMENTS AS FOLLOWS:

- THE INITIAL SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 55°F (ADJ.). • AS COOLING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO
- A MINIMUM OF 53°F (ADJ.). AS COOLING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 72°F (ADJ.)

IF MORE ZONES NEED HEATING THAN COOLING, THEN THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET FOR HEATING AS FOLLOWS:

- THE INITIAL SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 60°F (ADJ.).
- AS HEATING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 64°F (ADJ.).
- AS HEATING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 55°F (ADJ.).

COOLING COIL VALVE: THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND MODULATE THE COOLING COIL VALVE TO MAINTAIN ITS COOLING SETPOINT.

THE COOLING SHALL BE ENABLED WHENEVER:

- OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F (ADJ.).
- AND THE ECONOMIZER (IF PRESENT) IS DISABLED OR FULLY OPEN. AND THE SUPPLY FAN STATUS IS ON.
- AND THE HEATING (IF PRESENT) IS NOT ACTIVE.

THE COOLING COIL VALVE SHALL OPEN TO 50% (ADJ.) WHENEVER THE FREEZESTAT (IF PRESENT) IS

ALARMS SHALL BE PROVIDED AS FOLLOWS:

 HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) GREATER THAN SETPOINT.

LOW SUPPLY AIR TEMPERATURE ALARM: THE CONTROLLER SHALL ALARM IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

ECONOMIZER: THE CONTROLLER SHALL MEASURE THE MIXED AIR TEMPERATURE AND MODULATE THE ECONOMIZER DAMPERS IN SEQUENCE TO MAINTAIN A SETPOINT 2°F (ADJ.) LESS THAN THE SUPPLY AIR TEMPERATURE SETPOINT. THE OUTSIDE AIR DAMPERS SHALL MAINTAIN A MINIMUM ADJUSTABLE POSITION OF 20% (ADJ.) OPEN WHENEVER OCCUPIED.

- THE ECONOMIZER SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
- AND THE OUTSIDE AIR ENTHALPY IS LESS THAN 22BTU/LB. (ADJ.) AND THE OUTSIDE AIR TEMPERATURE IS LESS THAN THE RETURN AIR TEMPERATURE. AND THE OUTSIDE AIR ENTHALPY IS LESS THAN THE RETURN AIR ENTHALPY.
- AND THE SUPPLY FAN STATUS IS ON.
- THE ECONOMIZER SHALL CLOSE WHENEVER: MIXED AIR TEMPERATURE DROPS FROM 40°F TO 35°F (ADJ.)
- OR THE FREEZESTAT (IF PRESENT) IS ON
- OR ON LOSS OF SUPPLY FAN STATUS.

THE OUTSIDE AND EXHAUST AIR DAMPERS SHALL CLOSE AND THE RETURN AIR DAMPER SHALL OPEN WHEN THE UNIT IS OFF. IF OPTIMAL START UP IS AVAILABLE THE MIXED AIR DAMPER SHALL OPERATE AS DESCRIBED IN THE OCCUPIED MODE EXCEPT THAT THE OUTSIDE AIR DAMPER SHALL MODULATE TO FULLY CLOSED

MINIMUM OUTSIDE AIR VENTILATION - CARBON DIOXIDE (CO2) CONTROL: WHEN IN THE OCCUPIED MODE, THE CONTROLLER SHALL MEASURE THE RETURN AIR CO2 CONCENTRATION, AND MODULATE THE OUTSIDE AIR DAMPERS OPEN ON RISING CO2 CONCENTRATIONS. OVERRIDING NORMAL DAMPER OPERATION TO MAINTAIN A CO2 SETPOINT OF 750 PPM (ADJ.). THE CONTROLLER SHALL MEASURE AND MONITOR THE OUTSIDE AIRFLOW TO MAINTAIN THE OUTSIDE AIRFLOW SETPOINT..

PREFILTER DIFFERENTIAL PRESSURE MONITOR: THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE PREFILTER.

ALARMS SHALL BE PROVIDED AS FOLLOWS: PREFILTER CHANGE REQUIRED: PREFILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

MIXED AIR TEMPERATURE: THE CONTROLLER SHALL MONITOR THE MIXED AIR TEMPERATURE AND USE AS REQUIRED FOR ECONOMIZER CONTROL (IF PRESENT) OR PREHEATING CONTROL (IF PRESENT).

ALARMS SHALL BE PROVIDED AS FOLLOWS: • HIGH MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.). • LOW MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

# MEASURE THE RETURN AIR CO2 CONCENTRATION.

ALARMS SHALL BE PROVIDED AS FOLLOWS: • HIGH RETURN AIR CARBON DIOXIDE CONCENTRATION: IF THE RETURN AIR CO2 CONCENTRATION IS GREATER THAN 1000PPM (ADJ.) WHEN IN THE UNIT IS RUNNING.

RETURN AIR HUMIDITY: THE CONTROLLER SHALL MONITOR THE RETURN AIR HUMIDITY AND USE AS REQUIRED FOR ECONOMIZER CONTROL (IF PRESENT) OR HUMIDITY CONTROL (IF PRESENT).

ALARMS SHALL BE PROVIDED AS FOLLOWS:

• HIGH RETURN AIR HUMIDITY: IF THE RETURN AIR HUMIDITY IS GREATER THAN 70% (ADJ.). LOW RETURN AIR HUMIDITY: IF THE RETURN AIR HUMIDITY IS LESS THAN 35% (ADJ.).

ALARMS SHALL BE PROVIDED AS FOLLOWS: HIGH RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.). LOW RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

SUPPLY AIR TEMPERATURE: THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE.

ALARMS SHALL BE PROVIDED AS FOLLOWS: HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN 120° F (ADJ.). LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 45° F (ADJ.).

#### 2 VARIABLE AIR VOLUME ROOF TOP UNIT - AH-E

RUN CONDITIONS - REQUESTED: THE UNIT SHALL RUN WHENEVER: ANY ZONE IS OCCUPIED.

OR A DEFINABLE NUMBER OF UNOCCUPIED ZONES NEED HEATING OR COOLING.

HIGH STATIC SHUTDOWN: THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING AN HIGH STATIC SHUTDOWN SIGNAL.

RETURN AIR SMOKE DETECTION: THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A RETURN AIR SMOKE DETECTOR STATUS.

# DEFINABLE (ADJUSTABLE) MINIMUM RUNTIME.

ALARMS SHALL BE PROVIDED AS FOLLOWS: SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF. • SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.

 SUPPLY FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJUSTABLE).

SUPPLY AIR DUCT STATIC PRESSURE CONTROL: THE CONTROLLER SHALL MEASURE DUCT STATIC PRESSURE AND SHALL MODULATE THE SUPPLY FAN VFD SPEED TO MAINTAIN A DUCT STATIC PRESSURE SETPOINT OF 1.5IN H2O (ADJUSTABLE). THE SUPPLY FAN VFD SPEED SHALL NOT DROP BELOW 30% (ADJUSTABLE).

- ALARMS SHALL BE PROVIDED AS FOLLOWS:
- (ADJUSTABLE) GREATER THAN SETPOINT.
- (ADJUSTABLE) LESS THAN SETPOINT.

SUPPLY FAN VFD FAULT.

EXHAUST FAN: THE EXHAUST FAN SHALL RUN WHENEVER THE SUPPLY FAN RUNS. ALARMS SHALL BE PROVIDED AS FOLLOWS:

- (ADJUSTABLE).
- EXHAUST FAN VFD FAULT.

BUILDING STATIC PRESSURE CONTROL: THE CONTROLLER SHALL MEASURE BUILDING STATIC PRESSURE AND MODULATE THE EXHAUST FAN VFD SPEED TO MAINTAIN A BUILDING STATIC PRESSURE SETPOINT OF 0.05IN H2O (ADJUSTABLE). THE EXHAUST FAN VFD SPEED SHALL NOT DROP BELOW 20% (ADJUSTABLE).

- ALARMS SHALL BE PROVIDED AS FOLLOWS: (ADJUSTABLE) GREATER THAN SETPOINT.
- (ADJUSTABLE) LESS THAN SETPOINT.

# BASED ON ZONE COOLING AND HEATING REQUIREMENTS

THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET FOR COOLING BASED ON ZONE COOLING REQUIREMENTS AS FOLLOWS:

- THE INITIAL SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 55°F (ADJUSTABLE).
- A MINIMUM OF 53°F (ADJUSTABLE) • AS COOLING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A

MAXIMUM OF 65°F (ADJUSTABLE)

MAXIMUM OF 64°F (ADJUSTABLE)

ALARMS SHALL BE PROVIDED AS FOLLOWS:

THAN SETPOINT.

MODULATE TO FULLY CLOSED.

DURING UNOCCUPIED HOURS.

PRESENT).

SHALL BE RESET FOR HEATING AS FOLLOWS:

RETURN AIR TEMPERATURE: THE CONTROLLER SHALL MONITOR THE RETURN AIR TEMPERATURE AND USE AS REQUIRED FOR SETPOINT CONTROL OR ECONOMIZER CONTROL (IF PRESENT).

SUPPLY FAN: THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A USER

• HIGH SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25%

LOW SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25%

EXHAUST FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.

• EXHAUST FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON. EXHAUST FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT

 HIGH BUILDING STATIC PRESSURE: IF THE BUILDING AIR STATIC PRESSURE IS 25% • LOW BUILDING STATIC PRESSURE: IF THE BUILDING AIR STATIC PRESSURE IS 25%

SUPPLY AIR TEMPERATURE SETPOINT - OPTIMIZED: THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE AND SHALL MAINTAIN A SUPPLY AIR TEMPERATURE SETPOINT RESET

AS COOLING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO

IF MORE ZONES NEED HEATING THAN COOLING, THEN THE SUPPLY AIR TEMPERATURE SETPOINT

• THE INITIAL SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 60°F (ADJUSTABLE). AS HEATING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A

• AS HEATING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 55°F (ADJUSTABLE). COOLING STAGES: THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND STAGE

THE COOLING TO MAINTAIN ITS COOLING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJUSTABLE) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJUSTABLE) MINIMUM RUNTIME.

THE COOLING SHALL BE ENABLED WHENEVER: OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F (ADJUSTABLE).

 AND THE ECONOMIZER (IF PRESENT) IS DISABLED OR FULLY OPEN. AND THE SUPPLY FAN STATUS IS ON.

AND THE HEATING (IF PRESENT) IS NOT ACTIVE.

HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJUSTABLE) GREATER

LOW SUPPLY AIR TEMPERATURE ALARM: THE CONTROLLER SHALL ALARM IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 45°F (ADJUSTABLE).

ECONOMIZER: THE CONTROLLER SHALL MEASURE THE MIXED AIR TEMPERATURE AND MODULATE THE ECONOMIZER DAMPERS IN SEQUENCE TO MAINTAIN A SETPOINT 2°F (ADJUSTABLE) LESS THAN THE SUPPLY AIR TEMPERATURE SETPOINT. THE OUTSIDE AIR DAMPERS SHALL MAINTAIN A MINIMUM ADJUSTABLE POSITION OF 20% (ADJUSTABLE) OPEN WHENEVER OCCUPIED.

THE ECONOMIZER SHALL BE ENABLED WHENEVER: OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJUSTABLE).

 AND THE OUTSIDE AIR ENTHALPY IS LESS THAN 22BTU/LB. (ADJUSTABLE) AND THE OUTSIDE AIR TEMPERATURE IS LESS THAN THE RETURN AIR TEMPERATURE. AND THE OUTSIDE AIR ENTHALPY IS LESS THAN THE RETURN AIR ENTHALPY.

• AND THE SUPPLY FAN STATUS IS ON.

THE ECONOMIZER SHALL CLOSE WHENEVER: MIXED AIR TEMPERATURE DROPS FROM 40°F TO 35°F (ADJUSTABLE) • OR THE FREEZESTAT (IF PRESENT) IS ON.

OR ON LOSS OF SUPPLY FAN STATUS.

THE OUTSIDE AND EXHAUST AIR DAMPERS SHALL CLOSE AND THE RETURN AIR DAMPER SHALL OPEN WHEN THE UNIT IS OFF. IF OPTIMAL START UP IS AVAILABLE THE MIXED AIR DAMPER SHALL OPERATE AS DESCRIBED IN THE OCCUPIED MODE EXCEPT THAT THE OUTSIDE AIR DAMPER SHALL

MINIMUM OUTSIDE AIR VENTILATION - FIXED PERCENTAGE: THE OUTSIDE AIR DAMPERS SHALL MAINTAIN A MINIMUM ADJUSTABLE POSITION DURING BUILDING OCCUPIED HOURS AND BE CLOSED

FINAL FILTER DIFFERENTIAL PRESSURE MONITOR: THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FINAL FILTER.

ALARMS SHALL BE PROVIDED AS FOLLOWS: • FINAL FILTER CHANGE REQUIRED: FINAL FILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJUSTABLE).

MIXED AIR TEMPERATURE: THE CONTROLLER SHALL MONITOR THE MIXED AIR TEMPERATURE AND USE AS REQUIRED FOR ECONOMIZER CONTROL (IF PRESENT) OR PREHEATING CONTROL (IF

(ADJUSTABLE). LOW MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS LESS THAN 45°F (ADJUSTABLE). RETURN AIR HUMIDITY: THE CONTROLLER SHALL MONITOR THE RETURN AIR HUMIDITY AND USE AS REQUIRED FOR ECONOMIZER CONTROL (IF PRESENT) OR HUMIDITY CONTROL (IF PRESENT). ALARMS SHALL BE PROVIDED AS FOLLOWS:

• HIGH MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS GREATER THAN 90°F

• HIGH RETURN AIR HUMIDITY: IF THE RETURN AIR HUMIDITY IS GREATER THAN 70% (ADJUSTABLE) • LOW RETURN AIR HUMIDITY: IF THE RETURN AIR HUMIDITY IS LESS THAN 35% (ADJUSTABLE).

RETURN AIR TEMPERATURE: THE CONTROLLER SHALL MONITOR THE RETURN AIR TEMPERATURE AND USE AS REQUIRED FOR SETPOINT CONTROL OR ECONOMIZER CONTROL (IF PRESENT).

ALARMS SHALL BE PROVIDED AS FOLLOWS:

• HIGH RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS GREATER THAN 90°F (ADJUSTABLE)

• LOW RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS LESS THAN 45°F (ADJUSTABLE).

SUPPLY AIR TEMPERATURE: THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

• HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN 120°F (ADJUSTABLE) • LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 45°F

**3 VARIABLE AIR VOLUME - REHEAT TERMINAL AIR BOX (TYPICAL)** 

RUN CONDITIONS - SCHEDULED: THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:

 OCCUPIED MODE: THE UNIT SHALL MAINTAIN A 72°F (ADJUSTABLE) COOLING SETPOINT

(ADJUSTABLE).

ALARMS SHALL BE PROVIDED AS FOLLOWS:

A 70°F (ADJUSTABLE) HEATING SETPOINT.

- UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN
- AN 85°F (ADJUSTABLE) COOLING SETPOINT. • A 55°F (ADJUSTABLE) HEATING SETPOINT.
- ALARMS SHALL BE PROVIDED AS FOLLOWS: HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT
- BY A USER DEFINABLE AMOUNT (ADJUSTABLE). LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJUSTABLE).

ZONE SETPOINT ADJUST: THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR.

ZONE OPTIMAL START: THE UNIT SHALL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. THIS ALGORITHM SHALL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD.

ZONE UNOCCUPIED OVERRIDE: A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO AN OCCUPIED MODE FOR AN ADJUSTABLE PERIOD OF TIME. AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.

REVERSING VARIABLE VOLUME TERMINAL UNIT - FLOW CONTROL: THE UNIT SHALL MAINTAIN ZONE SETPOINTS BY CONTROLLING THE AIRFLOW THROUGH ONE OF THE FOLLOWING:

OCCUPIED:

- WHEN ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJUSTABLE) AND THE MAXIMUM COOLING AIRFLOW (ADJUSTABLE) UNTIL THE ZONE IS SATISFIED.
- WHEN THE ZONE TEMPERATURE IS BETWEEN THE COOLING SETPOINT AND THE HEATING SETPOINT, THE ZONE DAMPER SHALL MAINTAIN THE MINIMUM REQUIRED ZONE VENTILATION (ADJUSTABLE)
- WHEN ZONE TEMPERATURE IS LESS THAN ITS HEATING SETPOINT, THE CONTROLLER SHALL ENABLE HEATING TO MAINTAIN THE ZONE TEMPERATURE AT ITS HEATING SETPOINT. ADDITIONALLY, IF WARM AIR IS AVAILABLE FROM THE AHU, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJUSTABLE) AND THE MAXIMUM HEATING AIRFLOW (ADJUSTABLE) UNTIL THE ZONE IS SATISFIED.

UNOCCUPIED WHEN THE ZONE IS UNOCCUPIED THE ZONE DAMPER SHALL CONTROL TO ITS MINIMUM UNOCCUPIED AIRFLOW (ADJUSTABLE).

- WHEN THE ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM UNOCCUPIED AIRFLOW (ADJUSTABLE) AND THE MAXIMUM COOLING AIRFLOW (ADJUSTABLE) UNTIL THE ZONE IS SATISFIED.
- WHEN ZONE TEMPERATURE IS LESS THAN ITS UNOCCUPIED HEATING SETPOINT, THE CONTROLLER SHALL ENABLE HEATING TO MAINTAIN THE ZONE TEMPERATURE AT THE SETPOINT. ADDITIONALLY, IF WARM AIR IS AVAILABLE FROM THE AHU, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM UNOCCUPIED AIRFLOW (ADJUSTABLE) AND THE AUXILIARY HEATING AIRFLOW (ADJUSTABLE) UNTIL THE ZONE IS SATISFIED.

REHEATING COIL VALVE: THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE REHEATING COIL VALVE OPEN ON DROPPING TEMPERATURE TO MAINTAIN ITS HEATING SETPOINT.

WHEN COLD AIR IS AVAILABLE FROM THE AHU AND THERE IS NO FAN PRESENT IN THE BOX, THE ZONE DAMPER SHALL MODULATE TO THE MINIMUM OCCUPIED AIRFLOW (ADJUSTABLE). IF MORE HEAT IS REQUIRED, THE ZONE DAMPER SHALL MODULATE TO THE AUXILIARY HEATING AIRFLOW (ADJUSTABLE).

3aVARIABLE AIR VOLUME - FAN POWERED REHEAT MIXING BOX

FAN CONTROL - SERIES: THE FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN. THE FAN SHALL RUN FOR A MINIMUM USER DEFINABLE TIME (ADJ.). THE ZONE DAMPER WILL CLOSE COMPLETELY BEFORE THE FAN STARTS TO PREVENT AIR FROM THE AHU FROM CAUSING THE FAN TO SPIN BACKWARD. THE ZONE DAMPER WILL RETURN TO AUTOMATIC CONTROL AFTER THE FAN STARTS.

REHEATING COIL VALVE: THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE REHEATING COIL VALVE OPEN ON DROPPING TEMPERATURE TO MAINTAIN ITS HEATING SETPOINT.

WHEN COLD AIR IS AVAILABLE FROM THE AHU AND THERE IS NO FAN PRESENT IN THE BOX, THE ZONE DAMPER SHALL MODULATE TO THE MINIMUM OCCUPIED AIRFLOW (ADJ.). IF MORE HEAT IS REQUIRED, THE ZONE DAMPER SHALL MODULATE TO THE AUXILIARY HEATING AIRFLOW (ADJ.).

REHEATING - HIGH DISCHARGE AIR TEMPERATURE LIMIT: THE CONTROLLER SHALL MEASURE THE DISCHARGE AIR TEMPERATURE AND LIMIT REHEATING IF THE DISCHARGE AIR TEMPERATURE IS MORE THAN 95°F (ADJ.)

DISCHARGE AIR TEMPERATURE: THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

• HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.). LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.).

FAN STATUS: THE CONTROLLER SHALL MONITOR THE FAN STATUS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

 FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF. • FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.

FILTER HOURS: THE CONTROLLER SHALL MONITOR THE FAN RUNTIME.

FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

ALARMS SHALL BE PROVIDED AS FOLLOWS: • FILTER CHANGE REQUIRED: FILTER HAS BEEN IN USE FOR MORE THAN 2200 HRS (ADJ.).

4 HEATING HOT WATER TWO BOILER SYSTEM - B-1 AND B-2

BOILER SYSTEM - RUN CONDITIONS: THE BOILER SYSTEM SHALL BE ENABLED TO RUN WHENEVER: • A DEFINABLE NUMBER OF HOT WATER COILS NEED HEATING. • AND OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJUSTABLE).

TO PREVENT SHORT CYCLING, EACH THE BOILER SHALL RUN FOR AND BE OFF FOR MINIMUM ADJUSTABLE TIMES (BOTH USER DEFINABLE), UNLESS SHUTDOWN ON SAFETIES OR OUTSIDE AIR CONDITIONS.

EACH BOILER SHALL RUN SUBJECT TO ITS OWN INTERNAL SAFETIES AND CONTROLS.

THE BOILER SYSTEM SHALL ALSO RUN FOR FREEZE PROTECTION WHENEVER OUTSIDE AIR TEMPERATURE IS LESS THAN 38°F (ADJUSTABLE)

# VFD FAULT.

SELECTABLE):

DAILY

WEEKLY

# ITS HOT WATER DIFFERENTIAL PRESSURE SETPOINT.

THE FOLLOWING SETPOINTS ARE RECOMMENDED VALUES. ALL SETPOINTS SHALL BE FIELD ADJUSTED DURING THE COMMISSIONING PERIOD TO MEET THE REQUIREMENTS OF ACTUAL FIELD CONDITIONS.

BOILER B-1 SAFETIES: THE FOLLOWING SAFETIES SHALL BE MONITORED: BOILER ALARM.

LOW WATER LEVEL

ALARMS SHALL BE PROVIDED AS FOLLOWS: BOILER ALARM.

LOW WATER LEVEL ALARM.

BOILER B-2 SAFETIES: THE FOLLOWING SAFETIES SHALL BE MONITORED:

 BOILER ALARM. LOW WATER LEVEL

ALARMS SHALL BE PROVIDED AS FOLLOWS:

 BOILER ALARM. LOW WATER LEVEL ALARM.

HOT WATER PUMP LEAD/LAG OPERATION: THE TWO HOT WATER PUMPS SHALL OPERATE IN A LEAD/LAG FASHION. THE LEAD PUMP SHALL RUN FIRST.

• ON FAILURE OF THE LEAD PUMP, THE LAG PUMP SHALL RUN AND THE LEAD PUMP SHALL

TURN OFF ON DECREASING HOT WATER DIFFERENTIAL PRESSURE, THE LAG PUMP SHALL STAGE ON AND RUN IN UNISON WITH THE LEAD PUMP TO MAINTAIN HOT WATER DIFFERENTIAL PRESSURE SETPOINT

THE DESIGNATED LEAD PUMP SHALL ROTATE UPON ONE OF THE FOLLOWING CONDITIONS (USER MANUALLY THROUGH A SOFTWARE SWITCH

IF PUMP RUNTIME (ADJUSTABLE) IS EXCEEDED

MONTHLY

ALARMS SHALL BE PROVIDED AS FOLLOWS:

 HOT WATER PUMP 1 • FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.

 RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON. • RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.

VFD FAULT.

 HOT WATER PUMP 2 FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.

 RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON. RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.

HOT WATER DIFFERENTIAL PRESSURE CONTROL: THE CONTROLLER SHALL MEASURE HOT WATER DIFFERENTIAL PRESSURE AND MODULATE THE HOT WATER PUMP VFDS IN SEQUENCE TO MAINTAIN

THE CONTROLLER SHALL MODULATE HOT WATER PUMP SPEEDS TO MAINTAIN A HOT WATER DIFFERENTIAL PRESSURE OF 12LBF/IN2 (ADJUSTABLE). THE VFDS MINIMUM SPEED SHALL NOT DROP BELOW 20% (ADJUSTABLE).

ON DROPPING HOT WATER DIFFERENTIAL PRESSURE, THE VFDS SHALL STAGE ON AND RUN TO MAINTAIN SETPOINT AS FOLLOWS: • THE CONTROLLER SHALL MODULATE THE LEAD VFD TO MAINTAIN SETPOINT.

• IF THE LEAD VFD SPEED IS GREATER THAN A SETPOINT OF 90% (ADJUSTABLE), THE LAG VFD SHALL STAGE ON. • THE LAG VFD SHALL RAMP UP TO MATCH THE LEAD VFD SPEED AND THEN RUN IN UNISON WITH THE LEAD VFD TO MAINTAIN SETPOINT.

ON RISING HOT WATER DIFFERENTIAL PRESSURE, THE VFDS SHALL STAGE OFF AS FOLLOWS: • IF THE VFDS SPEEDS DROPS BACK TO 60% (ADJUSTABLE) BELOW SETPOINT, THE LAG VFD

• THE LEAD VFD SHALL CONTINUE TO RUN TO MAINTAIN SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

SHALL STAGE OFF

USER-DEFINABLE LIMIT.

SELECTABLE):

DAILY

WEEKLY

• HIGH HOT WATER DIFFERENTIAL PRESSURE: IF 25% (ADJUSTABLE) GREATER THAN SETPOINT LOW HOT WATER DIFFERENTIAL PRESSURE: IF 25% (ADJUSTABLE) LESS THAN SETPOINT.

CIRCULATION PUMP 1: THE CIRCULATION PUMP 1 SHALL RUN ANYTIME BOILER 1 IS CALLED TO RUN AND SHALL HAVE A USER DEFINABLE DELAY (ADJ.) ON STOP.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

• CIRCULATION PUMP 1 FAILURE: COMMANDED ON, BUT THE STATUS IS OFF. CIRCULATION PUMP 1 RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON. CIRCULATION PUMP 1 RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A

CIRCULATION PUMP 2: THE CIRCULATION PUMP 2 SHALL RUN ANYTIME BOILER 2 IS CALLED TO RUN AND SHALL HAVE A USER DEFINABLE DELAY (ADJ.) ON STOP.

ALARMS SHALL BE PROVIDED AS FOLLOWS: CIRCULATION PUMP 2 FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.

 CIRCULATION PUMP 2 RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON. CIRCULATION PUMP 2 RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER-DEFINABLE LIMIT.

BOILER LEAD/LAG OPERATION: THE TWO BOILERS SHALL OPERATE IN A LEAD/LAG FASHION.

 THE LEAD BOILER SHALL RUN FIRST. ON FAILURE OF THE LEAD BOILER, THE LAG BOILER SHALL RUN AND THE LEAD BOILER SHALL TURN OFF.

• AS HOT WATER TEMPERATURE DROPS BELOW A SETPOINT OF 150 F (ADJ.), THE LAG BOILER SHALL STAGE ON AND RUN IN UNISON WITH THE LEAD BOILER TO MAINTAIN THE HOT WATER TEMPERATURE SETPOINT. • AS HOT WATER TEMPERATURE RISES BACK TO 20°F ABOVE SETPOINT, THE LAG BOILER

SHALL STAGE OFF.

THE DESIGNATED LEAD BOILER SHALL ROTATE UPON ONE OF THE FOLLOWING CONDITIONS: (USER MANUALLY THROUGH A SOFTWARE SWITCH

IF BOILER RUNTIME (ADJ.) IS EXCEEDED

 MONTHLY ALARMS SHALL BE PROVIDED AS FOLLOWS:

 BOILER 1 FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.

• RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON. RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT

 BOILER 2 FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.

• RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON. RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.

• LEAD BOILER FAILURE: THE LEAD BOILER IS IN FAILURE AND THE STANDBY BOILER IS ON.

HOT WATER SUPPLY TEMPERATURE SETPOINT RESET: THE HOT WATER SUPPLY TEMPERATURE SETPOINT SHALL RESET BASED ON OUTSIDE AIR TEMPERATURE.

AS OUTSIDE AIR TEMPERATURE RISES FROM 0°F (ADJ.) TO 70°F (ADJ.) THE HOT WATER SUPPLY TEMPERATURE SETPOINT SHALL RESET DOWNWARDS BY SUBTRACTING FROM 0°F (ADJ.) TO 20°F

PRIMARY HOT WATER TEMPERATURE MONITORING: THE FOLLOWING TEMPERATURES SHALL BE

 PRIMARY HOT WATER SUPPLY. PRIMARY HOT WATER RETURN.

(ADJ.) FROM THE CURRENT BOILER SETPOINT.

MONITORED:

MONITORED:

ALARMS SHALL BE PROVIDED AS FOLLOWS:

 HIGH PRIMARY HOT WATER SUPPLY TEMP: IF GREATER THAN 200°F (ADJ.). • LOW PRIMARY HOT WATER SUPPLY TEMP: IF LESS THAN 100°F (ADJ.).

BOILER 1 HOT WATER TEMPERATURE MONITORING: THE FOLLOWING TEMPERATURES SHALL BE

 BOILER 1 HOT WATER SUPPLY. BOILER 1 HOT WATER RETURN.

ALARMS SHALL BE PROVIDED AS FOLLOWS: • HIGH HOT WATER SUPPLY TEMP: IF GREATER THAN 200°F (ADJ.). LOW HOT WATER SUPPLY TEMP: IF LESS THAN 100°F (ADJ.).

BOILER 2 HOT WATER TEMPERATURE MONITORING: THE FOLLOWING TEMPERATURES SHALL BE MONITORED: BOILER 2 HOT WATER SUPPLY.

BOILER 2 HOT WATER RETURN.

ALARMS SHALL BE PROVIDED AS FOLLOWS: HIGH HOT WATER SUPPLY TEMP: IF GREATER THAN 200°F (ADJ.). LOW HOT WATER SUPPLY TEMP: IF LESS THAN 100°F (ADJ.).

5 SINGLE AIR COOLED CHILLED WATER - ACC-1

CHILLER - RUN CONDITIONS: THE CHILLER SHALL BE ENABLED TO RUN WHENEVER THE OUTSIDE AIR TEMPERATURE IS GREATER THAN 54°F (ADJ.).

TO PREVENT SHORT CYCLING, THE CHILLER SHALL RUN FOR AND BE OFF FOR MINIMUM ADJUSTABLE TIMES (BOTH USER DEFINABLE), UNLESS SHUTDOWN ON SAFETIES OR OUTSIDE AIR CONDITIONS.

THE CHILLER SHALL RUN SUBJECT TO ITS OWN INTERNAL SAFETIES AND CONTROLS.

CHILLED WATER PUMP LEAD/STANDBY OPERATION: THE TWO CHILLED WATER PUMPS SHALL RUN ANYTIME THE CHILLER IS CALLED TO RUN. THE CHILLED WATER PUMP SHALL ALSO RUN FOR FREEZE PROTECTION WHENEVER THE OUTSIDE AIR TEMPERATURE IS LESS THAN A USER DEFINABLE SETPOINT (ADJ.).

THE LEAD PUMP SHALL START PRIOR TO THE CHILLER BEING ENABLED AND SHALL STOP ONLY AFTER THE CHILLER IS DISABLED. THE PUMP(S) SHALL THEREFORE HAVE: A USER ADJUSTABLE DELAY ON START.

THE DELAY TIMES SHALL BE SET APPROPRIATELY TO ALLOW FOR ORDERLY CHILLED WATER SYSTEM START-UP, SHUTDOWN AND SEQUENCING.

THE TWO PUMPS SHALL OPERATE IN A LEAD/STANDBY FASHION.

AND A USER ADJUSTABLE DELAY ON STOP.

 THE LEAD PUMP SHALL RUN FIRST. ON FAILURE OF THE LEAD PUMP, THE STANDBY PUMP SHALL RUN AND THE LEAD PUMP SHALL TURN OFF.

THE DESIGNATED LEAD PUMP SHALL ROTATE UPON ONE OF THE FOLLOWING CONDITIONS (USER SELECTABLE): MANUALLY THROUGH A SOFTWARE SWITCH

IF PUMP RUNTIME (ADJ.) IS EXCEEDED

- DAILY WEEKLY
- MONTHLY

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- CHILLED WATER PUMP 1 FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON. RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.
- CHILLED WATER PUMP 2 FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.

CHILLER: THE CHILLER SHALL BE ENABLED A USER ADJUSTABLE TIME AFTER PUMP STATUSES ARE PROVEN ON. THE CHILLER SHALL THEREFORE HAVE A USER ADJUSTABLE DELAY ON START.

THE DELAY TIME SHALL BE SET APPROPRIATELY TO ALLOW FOR ORDERLY CHILLED WATER SYSTEM START-UP, SHUTDOWN AND SEQUENCING.

THE CHILLER SHALL RUN SUBJECT TO ITS OWN INTERNAL SAFETIES AND CONTROLS

ALARMS SHALL BE PROVIDED AS FOLLOWS:

 CHILLER FAILURE: COMMANDED ON, BUT THE STATUS IS OFF. • CHILLER RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.

CHILLER RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.

CHILLED WATER SUPPLY TEMPERATURE SETPOINT: THE CHILLED WATER SUPPLY TEMPERATURE SETPOINT SHALL RESET BASED ON OUTSIDE AIR TEMPERATURE.

AS OUTSIDE AIR TEMPERATURE DROPS FROM 75°F (ADJ.) TO 50°F (ADJ.) THE CHILLED WATER SUPPLY TEMPERATURE SETPOINT SHALL RESET UPWARDS BY ADDING FROM 0°F (ADJ.) TO 10°F (ADJ.) TO THE CURRENT SETPOINT

CHILLED WATER TEMPERATURE MONITORING: THE FOLLOWING TEMPERATURES SHALL BE MONITORED:

 CHILLED WATER SUPPLY. CHILLED WATER RETURN.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH CHILLED WATER SUPPLY TEMP: IF THE CHILLED WATER SUPPLY TEMPERATURE IS GREATER THAN 55°F (ADJ.).
- LOW CHILLED WATER SUPPLY TEMP: IF THE CHILLED WATER SUPPLY TEMPERATURE IS LESS THAN 38°F (ADJ.).



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## HVAC - DEMOLITION PARTIAL BASEMENT FLOOR PLAN - AREA D SCALE: 1/8"= 1'-0"





# HVAC NOTES for Sheet H1.1 $\diamond$

AFTER THE ELECTRICAL CONTRACTOR REMOVES ELECTRICAL POWER AND WRING, REMOVE EXISTING ABOVE THE CEILING MAKEUP AIR UNIT AND ASSOCIATED DUCTWORK, PIPING, VALVES, CONTROL WIRING, AIR INTAKE HOOD, AND CURB. THE ROOFING CONTRACTOR SHALL PROVIDE A DECK CLOSURE PLATE, AND INSULATE AND REPAIR THE ROOF TO MATCH EXISTING.	1
REMOVE THE EXISTING TERMINAL AIR BOX AND ASSOCIATED CONTROL VALVE, CONTROL WRING, THERMOSTAT, PNEUMATIC TUBING AND PIPING TO ACCOMMODATE THE NEW BOX. (TYPICAL)	1
REMOVE EXISTING DUCTWORK SHOWN IN LIGHT DASHED LINES AND ASSOCIATED HANGING BRACKETS BACK TO THIS POINT. DUCTWORK LOCATED ABOVE THE CEILING AND /OR UNDER STRUCTURE.	1 1
REMOVE THE EXISTING THERMOSTAT AND ASSOCIATED TUBING AND / OR CONTROL WRING.	1
REMOVE EXISTING AIR DEVICE AND ASSOCIATED FLEXIBLE CONNECTION (TYPICAL)	2
REMOVE EXISTING HOT WATER SUPPLY AND RETURN PIPING SHOWN IN LIGHT DASHED LINES.	2
AFTER THE ELECTRICAL CONTRACTOR REMOVES ELECTRICAL POWER AND WRING, REMOVE EXISTING CIRCULATING PUMPS AND ASSOCIATED PIPING, BRACKETS, EXPANSION TANKS, AND VALVES.	2
EXISTING DUCTWORK TO REMAIN, DUCTWORK SIZE IS SHOWN FOR REFERENCE. THE CONTRACTOR SHALL BE VACUUMED AND BE CLEANED ALL EXISTING	2
DUCTWORK PER THE GUIDELINES OF THE NATIONAL AIR DUCT CLEANERS' ASSOCIATION (NADCA). SEE SPEC ITEM DUCT CLEANING.	2
AFTER THE ELECTRICAL CONTRACTOR REMOVES ELECTRICAL POWER AND	

- AFTER THE ELECTRICAL CONTRACTOR REMOVES ELECTRICAL POWER AND WRING, REMOVE THE EXISTING AIR HANDLING UNIT AND ASSOCIATED PIPING, VALVES AND CONTROL WRING.
- 10 REMOVE EXISTING LOUVER. ALL BASEMENT NEW AND DEMOED EQUIPMENT SHALL BE RIGGED IN AND OUT THE AREA WAY.
- 11 AFTER THE ELECTRICAL CONTRACTOR REMOVES ELECTRICAL POWER AND WRING, DISCONNECT GAS PIPING AND REMOVE EXISTING BOILERS AND ASSOCIATED, VENT FANS, VENT PIPING, CONTROL WIRING, VALVES, AND PIPING.
- 12 AFTER THE ELECTRICAL CONTRACTOR REMOVES ELECTRICAL POWER AND WRING, THE DOMESTIC WATER HEATER INDUCTION VENT FAN, AND VENT PIPING.

13 EXISTING 4" CHILLED WATER PIPES TO REMAIN, PIPING LOCATED UNDERGROUND.

- 14 REMOVE PIPING BACK TO HIS POINT.
- 15 EXISTING FLOOR DRAIN, SHOWN FOR REFERENCE.
- 16 SAWCUT THE FLOOR AND REMOVE ALL EXISTING UNDERGROUND DUCTWORK. COORDINATE WITH ARCHITECT AND GENERAL CONTRACTOR.
- 17 EXISTING PACKAGED ROOFTOP UNIT TO REMAIN.
- 18 EXISTING GAS PIPING TO REMAIN, SHOWN FOR REFERENCE ONLY.
- 19 AFTER THE ELECTRICAL CONTRACTOR REMOVES ELECTRICAL POWER AND WIRING, REMOVE EXISTING AIR RELIEF FAN AND ASSOCIATED HANGERS.
- 20 REMOVE EXISTING BOILER CONTROL PANEL SEQUENCER AND ASSOCIATED CONTROL WIRING.
- 21 REMOVE EXISTING TEMPERATURE CONTROL PANELS, CONTROL WIRING, PNEUMATIC TUBING, AIR COMPRESSOR AND AIR DRYER. AIR COMPRESSOR SHALL TURNED OVER TO THE OWNER. COORDINATE WITH THE OWNER TO ARRANGE TRANSPORTATION AND PROPER STORAGE.
- 22 REMOVE EXISTING AIR DEVICE.
- 23 REMOVE THE EXISTING CAB HEATER TO ACCOMMODATE A NEW ONE.
- 24 REMOVE THE EXISTING UNIT HEATER TO ACCOMMODATE A NEW ONE.
- 25 REMOVE HEATING WATER PIPE RISERS TO ACCOMMODATE NEW PIPING.
- 26 THIS PIPING AND DUCTWORK ARE LOCATED ABOVE THE CEILING AND UNDER THE PLYWOOD FLOOR ABOVE THE ATTIC. THE GENERAL CONTRACTOR SHALL REMOVE THE PLYWOOD FLOOR, AND THEN REINSTALL THE PLYWOOD FLOOR AFTER THE MECHANICAL CONTRACTOR REMOVES PIPING AND DUCTWORK.
- 27 EXCAVATE THIS AREA FOR REMOVING AND INSTALLATION OF NEW PIPING. COORDINATE WITH THE ARCHITECT FOR REMOVAL, EXCAVATION, AND INFILL REQUIREMENTS





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Sheet Number

H1.'





# HVAC NOTES for Sheet H1.2 $\diamond$

- 1 EXISTING 3-TON GAS FIRED ROOFTOP UNIT TO REMAIN. RECONFIGURE DUCTWORK AS SHOWN ON SHEET H2.2.
- 2 EXISTING TOILET ROOM EXHAUST FAN, AIR DEVICES, AND DUCTWORK TO REMAIN.
- 3 REMOVE DUCTWORK, AIR DEVICES, AND TERMINAL AIR BOXES SHOWN IN DASHED LINES.
- 4 REMOVE ALL HOT WATER SUPPLY, RETURN PIPING, ALL HIGH- AND LOW-PRESSURE DUCTWORK, AIR DEVICES, AND PNEUMATIC CONTROL TUBING, VALVES, PIPE FITTINGS, COILS, CONTROLS, ETC. IN THIS AREA.
- 5 UNLESS OTHERWISE NOTED, REMOVE ALL EXISTING THERMOSTATS, WIRING, AND/OR PNEUMATIC TUBING BACK TO SOURCE IN THE CONTRACT AREA. 6 AFTER THE ELECTRICAL CONTRACTOR REMOVES ELECTRICAL POWER AND
- WIRING, REMOVE EXISTING FAN COIL UNITS AND INTERLOCK WIRING AND ALL PIPING. 7 REMOVED FAN COIL UNITS AND THERMOSTATS SHALL BE TURNED TO THE
- OWNER. 8 EXISTING HOT WATER CABINET HEATER AND THERMOSTAT TO BE REMOVED.
- 9 REMOVE EXISTING THERMOSTAT AND RETURN TO OWNER.
- 10 REMOVE ALL DUCTWORK AND AIR DEVICES IN THIS AREA. CAP MAIN DUCTWORK AS REQUIRED.
- 11 REMOVE 22" DIA. SPIRAL DUCT AND PROVIDE INSULATED CAP AND SEAL.
- 12 24" SUPPLY DUCT RISER TO REMAIN.
- 13 REMOVE HOT WATER SUPPLY AND RETURN RISERS.
- 14 EXISTING RETURN AIR RISER TO REMAIN.
- 15 REMOVE RETURN ELBOW. CAP AND SEAL OPENING ABOVE THE CEILING.
- 16 REMOVE EXISTING AIR DEVICE TO ACCOMMODATE NEW CEILING.
- 17 REMOVE EXISTING TERMINAL AIR BOX, TEMPERATURE CONTROLLER SHALL BE INSTALLED IN THE NEW BOX.
- 18 THIS PIPING AND DUCTWORK ARE LOCATED ABOVE THE CEILING AND UNDER THE PLYWOOD FLOOR ABOVE ATTIC. THE GENERAL CONTRACTOR SHALL REMOVE THE PLYWOOD FLOOR, AND THEN REINSTALL THE PLYWOOD FLOOR AFTER THE MECHANICAL CONTRACTOR REMOVES PIPING AND DUCTWORK.







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Sheet Number

H1.2







7024 @ Hel **29/** Trinht 2 8

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



# HVAC NOTES for Sheet H2.1 <>

- 1 NUMBER INDICATES AIRFLOW BALANCE QUANTITY IN CFM (TYPICAL). 16 X-RAY AND SAW CUT TO ENLARGE EXISTING OPENING TO INSTALL NEW VENT PIPING AND WALL SUPPORT ASSEMBLY. ABOVE CEILING RETURN AIR ELBOWS. PROVIDE TWO ACOUSTICALLY LINED ELBOWS. MATCH SIZE TO AIR DEVICE. 17 REMOVE THE TOP SECTION OF THE CHIMNEY COVER TO ACCOMMODATE NEW VENT PIPING TERMINATION. 3 ABOVE CEILING RETURN AIR ELBOW. PROVIDE ONE ACOUSTICALLY LINED ELBOW. MATCH SIZE TO AIR DEVICE.
- 4 INSULATED SHEET METAL CAP AND SEAL.
- 5 EXISTING DUCTWORK TO REMAIN. SEE THE SPECIFICATIONS DUCTWORK CLEANING SECTION.
- 6 NEW AVERAGING TYPE TEMPERATURE SENSOR (TYPICAL.)
- LOCATION OF VARIABLE FREQUENCY DRIVE. DRIVE SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR, AND WIRED BY THE ELECTRICAL CONTRACTOR. SEE SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS AND DRIVE OPTIONS.
- 8 NEW HOT WATER BOILER. SEE BOILER ISOMETRIC DETAILS FOR REQUIRED VALVING.
- PROVIDE NEW CONCRETE PAD EXTENSION WITH CHAMFERED EDGES, USING 3,500 PSI AIR ENTRAINED CONCRETE TEST AT 28 DAYS, FREE OF VOIDS AND RUBBED SMOOTH WITH STEEL TROWEL. THE TOP SURFACE SHALL BE DEAD LEVEL, SEE DETAIL 16, SHEET H4.2.
- 10 PROVIDE YELLOW SAFETY PAINT ON ALL 4 SIDES OF THE CONCRETE PAD.
- 11 COMBUSTION AIR INTAKE MOTOR OPERATED DAMPERS, TCC SHALL INTERLOCK WITH NEW BOILERS. TYPICAL FOR TWO.
- 12 EXTEND 8" DIAMETER FLUE FROM BOILER VENT OUTLET ADAPTER UP THROUGH THE EXISTING CHIMNEY, PROVIDE TEE TERMINATION WITH STAINLESS STEEL BIRD-SCREEN, WALL INSULATED THIMBLE, AND TERMINATE PER MANUFACTURER'S RECOMMENDATIONS. THE FLUE VENT SYSTEM SHALL BE UL-1738 WITH 430 STAINLESS STEEL OUTER SHELL, AS MANUFACTURED BY VAN-PAKER MODEL "CS", OR APPROVED EQUAL.
- 13 LOCATION OF MODULATING FAN CONTROL SYSTEM AND DRIVE. CONTROL PANEL AND DRIVE SHALL BE FURNISHED AND INSTALLED BY A MECHANICAL CONTRACTOR, AND WIRED BY THE ELECTRICAL CONTRACTOR. COORDINATE WITH THE ELECTRICAL CONTRACTOR, SEE EQUIPMENT DETAILS, SHEET H0.4.
- 14 PROVIDE UL LISTED BALANCING DAMPER AND BAROMETRIC DAMPER. BAROMETRIC DAMPERS AND BACKDRAFT DAMPER PROVIDED WITH BOILER POWER VENT SYSTEM. SEE SPECIFICATIONS.
- 15 INSTALL POWER VENTER PER MANUFACTURES RECOMMENDATIONS. INSTALL THE DRAIN, PROVIDED WITH THE EQUIPMENT, AT THE INLET OF THE FAN AND EXTEND TO THE EXISTING FLOOR DRAIN.

- 18 DOMESTIC WATER HEATER VENT PIPES.
- 19 UNDER SLAB SUPPLY DUCTWORK. COORDINATE WITH ARCHITECT.
- 20 INSTALL, SEAL, AND TEST ALL UNDER-SLAB SUPPLY AIR DUCTWORK PER MANUFACTURER RECOMMENDATIONS. PROVIDE LINEAR DIFFUSER BOX, LINEAR DIFFUSER BOX ADAPTER, AND PLENUM ADAPTOR WITH SCREWS AND SEALS. DUCTWORK SHALL BE "BLUE DUCT™ AS MANUFACTURED BY AQC INDUSTRIES OR ENGINEER APPROVED EQUAL.
- 21 PROVIDE FLANGE APPROXIMATELY 3" AT FRONT WALL AND ENCASE WITH CONCRETE. EXTEND SHEET METAL DUCT UP TO FAN-POWERED MIXING BOX. 22 NEW UNIT HEATERS INSTALLED IN THE ATTIC ABOVE THE CEILING, PROVIDE
- ACCESS DOOR AS REQUIRED. 23 PROVIDE A SMALL COVER PLATE TO MATCH THE COLOR OF THE WALL AT THE
- OPENING LEFT BY THERMOSTAT REMOVAL. FROM THIS POINT BACK TO THE DUCTWORK OUTLET IN THE WALL OF AHU-1,
- PROVIDE DOUBLE WALL DUCTWORK WITH PERFORATED ACOUSTIC LINER. SEE SPECIFICATIONS. 25 CAP AND SEAL OPENING.
- 26 AFTER THE INSTALLATION OF DAMPERS AND SHEET METAL TRANSITION, PROVIDE 2" INSULATED DOUBLE WALL ALUMINUM SKINNED BLANK-OFF PANEL CAULK IN PLACE AFTER INSTALLATION. FIELD VERIFY EXACT SIZE
- 27 LOUVER SHALL BE CAULKED AND SEALED IN PLACE.
- 28 EXTEND CPVC SCHEDULE 80, COMBUSTION AIR AND VENT PIPING, FROM DOMESTIC WATER HEATER, TERMINATE WITH 45-DEGREE ELBOWS, AND PROVIDE STAINLESS STEEL BIRD SCREEN, INSTALL PER MANUFACTURER'S INSTRUCTIONS. WATER HEATER FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR.
- 29 IN OPENING LEFT AFTER LOUVER REMOVAL, PROVIDE INSULATED DOUBLE-WALLED ALUMINUM WALK-THROUGH ACCESS DOOR. FRAMED DOOR SHALL BE 30" WIDE X 48 TALL WITH CONTINUOUS PIANO HINGE, NEOPRENE GASKETS AND THREE (3) COMPRESSION HANDLES OPERABLE FROM BOTH SIDES. PROVIDE BOLT-TYPE LATCH ON THE INSIDE SURFACE. PROVIDE ALUMINUM FILLER PLATE, SKINNED ON ALL 6 SIDES ON UNUSED PORTION OF OPENING AROUND DOOR AND SEAL AND CAULK AS REQUIRED. THE DOOR SHALL BE SUPPLIED BY HALLMANN SALES LCC OR EQUAL. FIELD MEASURE OPENING BEFORE ORDERING DOOR AND FABRICATION FILLER.





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H2.









HVAC - REVISED PARTIAL FIRST FLOOR PLAN - AREA A SCALE: 1/8"= 1'-0"

#### ROOM INDEX

100	NOT USED
101	NOT USED
102	WAITING
103	
104	
105	NOT LISED
107	STORAGE
108	CONFERENCE
109	MAYOR OFFICE
110	PROSECUTOR
111	CLERK STORAGE
112	I.T.
113	CLERK OPEN OFFICE
114	CORRIDOR
115	
117	
118	MEN'S
110	WOMEN'S
120	WOMEN
121	JANITOR
122	MEN
123	CORRIDOR
124	PAYMENTS
125	
126	
127	
128	
129	
130	VESTIBULE
1.32	WORK ROOM
133	OFFICE
134	FILES
135	OFFICE
136	OFFICE

# HVAC NOTES for Sheet H2.2 $\diamond$

- 1 NUMBER INDICATES AIRFLOW BALANCE QUANTITY IN CFM (TYPICAL).
- 2 EXISTING 3-TON GAS-FIRED ROOFTOP UNIT TO REMAIN. RECONFIGURE DUCTWORK AS SHOWN.
- PROVIDE 90 DEG. ELBOW WITH FLEX CONNECTOR AT FAN DISCHARGE AND EXTEND EXHAUST DUCT UP INTO CURB CAP PROVIDED WITH FAN PACKAGE. PROVIDE 2-1/2" FOIL-FACED BATT INSULATION BETWEEN ROOF DECK AND FAN OUTLET. SEE FAN SCHEDULE.
- 4 FROM EACH CONDENSING UNIT, EXTEND SUCTION AND LIQUID REFRIGERATION LINES AS RECOMMENDED BY THE EQUIPMENT SUPPLIER. ALL PIPE SIZING SHALL BE BY EQUIPMENT SUPPLIER.
- 5 MANUAL STARTER WITH PILOT LIGHT. SEE FAN SCHEDULE.
- 6 CONNECT CONDENSATE PIPING TO THE HEAT PUMP AND EXTEND UP THROUGH ROOF. VERIFY CONDENSATE PIPE SIZE AND TRAP REQUIREMENTS WITH EQUIPMENT SUPPLIER AT THE JOB SITE.
- 7 EXHAUST FAN EF-4 SHALL RELIEVE HEAT FROM THE I.T. CLOSET INTO THE CEILING PLENUM IN RESPONSE TO REVERSE ACTING THERMOSTAT PROVIDED WITH THE FAN PACKAGE. TCC TO PROVIDE INTERLOCK WIRING BETWEEN FAN AND STAT.
- 8 TEMPERATURE CONTROLS CONTRACTOR SHALL INTEGRATE NEW ZONE DAMPERS AND RTU WITH THE EXISTING i-Vu BUILDING AUTOMATION SYSTEM. SEE ZONE DAMPER SCHEDULE.
- 9 HARDWIRED THERMOSTAT FOR AC UNIT.
- 10 AH UNIT BYPASS DAMPER. SEE ZONE DAMPER SCHEDULE, SHEET H0.1.
- 11 PROVIDE NEW FLEX AND RECONNECT NEW AIR DEVICE TO EXISTING DUCTWORK AND BALANCE TO AIR FLOW SHOWN.
- 12 PROVIDE A SMALL PLATE TO MATCH THE COLOR OF THE WALL AT THE OPENING LEFT BY THERMOSTAT REMOVAL.
- 13 ABOVE-CEILING RETURN AIR TRANSFER DUCT. PROVIDE TWO 12"x12" ACOUSTICALLY LINED ELBOWS.
- 14 GRAVITY BACKDRAFT DAMPER. SEE AIR DEVICE SCHEDULE.
- 15 CAP AND SEAL OPENING ABOVE CEILING, RETURN DUCT SHOWN ON 1969 DRAWINGS IS 52"x14".
- 16 EXISTING TEMPERATURE CONTROLLER SHALL BE INSTALLED IN THE NEW BOX.





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H2.2





- 2 EXISTING 3-TON GAS-FIRED ROOFTOP UNIT TO REMAIN. RECONFIGURE DUCTWORK AS SHOWN ON SHEET H2.2.
- REMOVE ALL THE UTILITIES BELOW THE ROOF DECK AND REMOVE EQUIPMENT DECK, RE-FLASH AND SEAL CURBS. SEE ARCHITECTURAL SHEET A1.17.
- 4 PROVIDE CONDENSATE TRAP PER EQUIPMENT MANUFACTURER CONCRETE SPLASH BLOCK OVER ROOF SACRIFICIAL EPDM SHEET OVER EPDM ROOF MEMBRANE AT DISCHARGE OF CONDENSATE PIPING. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ROOFING CONTRACTOR FOR
- 5 REFER TO ARCHITECTURAL SHEET A1.17, DETAIL G FOR REFRIGERANT AND COORDINATE WITH ELECTRICAL CONTRACTOR.
- PROVIDE EQUIPMENT SUPPORT AS MANUFACTURED BY PATE® MODEL "ES-5" OR 6 A1.17, DETAIL F.
- 7 FROM EACH CONDENSING UNIT, EXTEND SUCTION AND LIQUID REFRIGERATION LINES AS RECOMMENDED BY THE EQUIPMENT SUPPLIER. ALL PIPE SIZING SHALL BE BY EQUIPMENT SUPPLIER.
- 8 REMOVE I.T. ROOM CONDENSING UNITS AND ALL POWER AND REFRIGERANT PIPING. RETURN CONDENSING UNITS TO OWNER.
- 9 WALL OPENING AND SUPPORT BY GENERAL CONTRACTOR, SEE STRUCTURAL DRAWINGS.
- 10 LOUVER SHALL BE CAULKED AND SEALED IN PLACE.
- 11 REMOVE THE EXISTING AIR INTAKE HOOD FAN AND CURB. THE ROOFING THE ROOF TO MATCH THE EXISTING ONE.
- 12 THIS DUCTWORK ABOVE SHALL BE ACOUSTICALLY LINED SHEET METAL WITH A 3" DUCT LINER.
- 13 MOTOR-OPERATED DAMPER SHALL BE INTERLOCKED WITH THE EXHAUST FAN, EF-R, AND SHALL OPEN 100% WHENEVER THE EXHAUST FAN IS ENERGIZED.
- 14 PROVIDE HUMIDISTAT AND REVERSE-ACTING THERMOSTAT TO CONTROL ATTIC.
- 15 EXISTING ROOF CURB TO REMAIN. THE CONTRACTOR SHALL VERIFY THE EXACT SIZE BEFORE ORDERING THE EXHAUST FAN AND CURB ADAPTER, AS REQUIRED.
- 17 FURNISH AND INSTALL ACCESS DOOR TO SERVE EACH UNIT HEATER AND



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H2.3







# HVAC NOTES for Sheet H3.1 $\bigcirc$

- 1 EXCAVATE THIS AREA FOR REMOVING AND INSTALLATION OF NEW PIPING. COORDINATE WITH THE ARCHITECT FOR REMOVAL, EXCAVATION AND INFILL REQUIREMENTS.
- 2 EXISTING CHILLED WATER PIPING TO REMAIN. THE CONTRACTOR SHALL CLEAN, INSPECT, AND PRESSURE TEST EXISTING UNDER SLAB PIPING, BEFORE CONNECTING TO NEW CHILLED WATER PIPING.
- 3 REMOVE THIS SECTION OF PIPING.
- 4 ABANDON EXISTING UNDER SLAB CHILLED WATER SUPPLY AND RETURN PIPING.
- 5 NEW HDPE UNDERGROUND CHILLED WATER PIPE, SEE SPECIFICATIONS FOR PIPELINE BORING.
- 6 PROVIDE AND PROGRAM NEW CARRIER UPC OPEN BOARD, AND EXTEND CONTROL WIRING TO THE MECHANICAL ROOM. THE EXISTING AIR-COOLED CHILLER IS CARRIER MODEL 30RAP0605DC0G100, SERIAL 2716Q5751. THE CONTRACTOR SHALL FIELD VERIFY EQUIPMENT AND REQUIREMENTS AT THE JOB SITE.
- 7 TEMPERATURE CONTROLS CONTRACTOR SHALL INTEGRATE NEW OPEN BOARD WITH THE EXISTING i-Vu BUILDING AUTOMATION SYSTEM.
- 8 EXISTING CATCH BASING IS SHOWN FOR REFERENCE ONLY.

## NOMENCLATURE (CHILLED WATER PIPING)

- A EXISTING AIR COOLED CHILLER
- B GAUGE PLUG FITTING WITH EXTENDED NECK.
- C 4" BUTTERFLY (SHUTOFF VALVE)
- D SILICON FILLED TEMPERATURE GAUGE.
- E PRESSURE GAGE WITH ISOLATION BALL VALVES
- F REDUCING FLANGED VIBRATION ELIMINATOR. (METRAFLEX)
- G PROVIDE CONCRETE THRUST BLOCK ON NEW PIPING









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2 3

# HVAC NOTES for Sheet H3.2 $\diamond$

EXISTING CHILLED WATER PIPING TO REMAIN. THE CONTRACTOR SHALL CLEAN, INSPECT, AND PRESSURE TEST EXISTING UNDER SLAB PIPING, BEFORE CONNECTING TO NEW CHILLED WATER PIPING.

NEW CONNECTION TO EXISTING PIPING. VERIFY EXACT LOCATION AND CONDITIONS AT THE JOB SITE.

CONCRETE HOUSEKEEPING PAD, SEE DETAIL 16, SHEET H4.2.

- PROVIDE CONDENSATE TRAP FROM AHU- CONDENSATE DRAIN, PER EQUIPMENT MANUFACTURER RECOMMENDATIONS, WITH HAND-TIGHT PLUGS, TERMINATE AND EXTEND DOWN TO EXISTING FLOOR DRAIN.
- CONDENSATE TREATMENT PACKAGE TANK WITH NEUTRALIZATION MEDIA, PROVIDED BY BOILER SUPPLIER. EXTEND 1", SCHEDULE 80 CPVC, DOWN TO EXISTING FLOOR DRAIN.

6 NEW HOT WATER BOILER. SEE BOILER ISOMETRIC DETAIL 17, SHEET H4.2, FOR REQUIRED VALVING.

7 LOCATION OF VARIABLE FREQUENCY DRIVE. DRIVE SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR, AND WIRED BY THE ELECTRICAL CONTRACTOR. SEE SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS AND DRIVE OPTIONS.

8 EXISTING FLOOR DRAIN IS SHOWN FOR REFERENCE.

9 HEATING HOT WATER RISER UP TO ABOVE THE FIRST FLOOR CEILING.

10 UNIT HEATER LOCATED ABOVE THE CEILING, SERVES THE ATTIC OVER THE COUNCIL CHAMBERS.

11 HEATING HOT WATER RISER FROM UP FROM THE BASEMENT.

12 SEE SHEET H3.1 FOR CONTINUATION.

13 WATER HEATER FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR.





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NOTES: FOR MULTIPLE PUMPS INSTALLATION ALL INDIVIDUAL PUMP PIPING, VALVES, ETC. SHALL BE AS INDICATED ABOVE. INTERCONNECTS, TIE-INS, ETC. FOR PUMP PIPING SHALL BE ON SYSTEM SIDE OF ISOLATIÓN VALVES. IN LIEU OF FLEXIBLE COUPLINGS ON PUMP PIPING, CONTRACTOR MAY USE WELDED FITTINGS WITH FLEXIBLE CONNECTORS ON SUPPLY AND RETURN.

HOT WATER CIRCULATING PUMP - HP-1 AND 2 <u>SPUMP, PIPING & VALVES</u> NO SCALE:









8 TERMINAL REHEAT BOX NO SCALE

### NOMENCLATURE: PUMP PIPING & VALVES, DETAIL 3



<sup>2</sup> COIL DRAIN LINE WITH CAPPED HOSE CONNECTION

AI	K HANDLING UNIT AH	U-I NOMENCLATURE FOR DETAIL (1)& (2)
	DESIGNATION (MARK)	AHTL1
	SERVES	COUNCIL CHAMBERS AND LOBBY
	ТҮРЕ	INDOOR MODULAR. DUAL WALL
	MAXIMUM AIR FLOW	
	OUTSIDE AIR	1,900 CFM
	ACCESSORIES	VIEW PORTS WITH HINGED DOORS AND
		MARINE LIGHTS TYPICAL FOR FOUR MODULES,
		FIELD PROGRAMMABLE CONTROLLER,
		FIELD PROGRAMMABLE TOOLS.
	MFR. & MOD. #	IRANE "CSAA01/" INDOOR AIR HANDLER
	THE CONTRACTOR SHALL INCLUDE	FAN MODULE DIASSEMBLING.
A	SUPPLY FAN ASSEMBLY:	
	TYPE	DRAW THRU - DIRECT DRIVE PLENUM FAN
		WITH PERFORATED PANELS, INLET SCREEN AND
		MOTOR SHAFT GROUNDING AND PIEZO RING
		INLET BELL (TO REDUCE SPIKE)
	WHEEL	24.5" DIA.
		9,500 4" WC
	FAN RPM	1.682
	MOTOR	10 HP PREMIUM EFFICIENCY
	VOLTAGE-PHASE	SEE ELECTRICAL DRAWINGS
	CAPACITY CONTROL	VARIABLE FREQUENCY DRIVE WITH BYPASS
	ACCESS DOOR	18" WIDE
	CHILLED WATER COIL (SELECTION BA	SED ON 30% PG):
	QUAN. & FACE AREA	1 @ 15.63 SQFT
	CAPACITY (TOTAL / SENS.)	350.29 MBH / 254.16 MBH
		6 ROW / 121 FIN PER FOOT
		80.0°F DB / 67.0°F WB
		10.0°F
	FLUID PRESSURE DROP	
	AIR PRESSURE DROP	0.95" WG
	DRAIN PAN	STAINLESS STEEL
	MODEL	5/8" TUBE DIAMETER
	ACCESS DOOR	20" WIDE
	HOT WATER HEATING COIL:	1 @ 15 00 SOFT
		270 92 MPH
		180°F
	ENTERING AIR TEMP	52°F
	LEAVING AIR TEMP	80°F
	GPM	16.64
	WATER TEMPERATURE DROP	30.0°F
	WATER PRESSURE DROP	0.96 FT. WG
	AIR PRESSURE DROP	0.121" WG
	ACCESSORIES	FACTORY INSTALLED FREEZE STAT.
	MODEL ACCESS DOOR	5/8" TUBE DIAMETER 20" WIDE
٦		
		(2) 20"x 20" AND (4) 20"x 24"
	FILTER TYPE	
	INITIAL PRESSURE DROP	0.25" WG
	FINAL PRESSURE DROP	1.00" WG
	ACCESSORIES	DIFFERENTIAL PRESSURE SWITCH,
		PRESSURE TAPS.
	DAMPER	TOP PREMIUM PARALLEL
		REAR PREMIUM TRAQ DAMPERS
		AIRFLOW MEASURING STATION
	ACCESS DOOR	31" WIDE
	6" STRUCTURAL BASE RAIL BY AH UN	IT MANUFACTURER.
••	AH UNIT MANUFACTURER SHALL FUR	NISH UNIT WITH TYPE "F" ISOLATION PADS
	TO SPREAD THE LOAD UNDER STRUC	TURAL BASE CHANNELS.
h	SPRING ISOLATING BASE & FLEX COM	ΙΝΕCTOR ΑΤ ΟΠΤΙ ΕΤ ΒΥ ΔΗ ΠΝΙΤ ΜΔΝΠΕΔΩΤΠΡΕΡ
	S. HING IS VERHING DAVE & LEA UVIN	

G 36" DIAMETER FRONT BELLMOUTH OPENING

H SHIPMENT SPLIT UNIT

COMBINATION VFD DISCONNECT CONTROL PANEL

J VARIABLE FREQUENCY DRIVE WITH BYPASS





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H4.1





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# NOMENCLATURE

	Α	HOT WATER BOILER (2 REQUIRE	D)
		MARK B TYPE G CAPACITY (INPUT/OUTPUT)	AS FIRED 93.9% EFFICIENT ONDENSING TYPE 50 MBH / 700 MBH 76° F / 200° F ' TO 8" BELL REDUCER ' WITH INLET SCREEN EE ELECTRICAL DRAWINGS AS PRESSURE REDUCING VALVE /ITH LOCK-UP REGULATOR 13 PSI INLET, 7" W.G. OUTLET NATURAL GAS IAXITROL OR APPROVED EQUAL.
		MFR. & MODEL No W	/EIL MCLAIN - SLIM-FIT <sup>®</sup> 750 SERIES 3
	В	INLINE PUMP, BOILER CIRCULAT	OR - SEE PUMP SCHEDULE
	С	BASE MOUNTED PUMP, SYSTEM	I CIRCULATOR - SEE PUMP SCHEDULE
	D	3/4" BALL VALVE WITH HOSE EN	ID ADAPTER
	E	4" AIR SEPARATOR. SEE DETAIL	. 4, SHEET H4.1
	F	SILICON FILLED TEMPERATURE	GAUGE
	G	24" MAXIMUM (OR AS CLOSE AS	POSSIBLE)
$\mathbf{S}$ $\mathbf{I}$	Η	BALL VALVE	
		UNION	
	J	SPRING LOADED CHECK VALVE	
	K	BOILER DRAIN TEE ASSEMBLY,	EXTEND CPVC PIPE TO FLOOR DRAIN
	L	RELIEF VALVE FURNISHED WITH	BOILER PACKAGE. PIPE DISCHARGE TO DRAIN.
	Μ	GAS RATED BALL VALVE BY PLU	UMBING CONTRACTOR
	Ν	FULL SIZE DIRT LEG BY PLUMBIN	NG CONTRACTOR
	0	PIPE DISCHARGE TO FLOOR DR	AIN
	Ρ	HIGH CAPACITY AIR VENT, PIPE	DISCHARGE TO DRAIN
	Q	PETE'S PLUG WITH EXTENDED N	IECK.
- 2-1/2"	R	PIPE HANGER WITH THREADED PROVIDE SPRING ISOLATOR FOR	ROD (SUPPORT PUMP FROM PIPING ONLY) R FIRST TWO HANGERS ON EACH SIDE OF PUMP
HP-2	S	PIPE WELL FOR TC SENSOR	
$\times$	Т	2-1/2" X 2" REDUCER	
	U	BALANCING VALVE	
	V	STRAINER WITH BALL VALVE SH	UTOFF AND CAPPED HOSE CONNECTION.
	W	GAS PRESSURE REDUCING VAL INSTALLED BY PLUMBING CONTI	VE FURNISHED WITH BOILER PACKAGE. RACTOR. SEE PLUMBING DRAWINGS.
HP-1			

## NOMENCLATURE: AIR ELIMINATION, DETAIL ①

A EXPANSION TANK

. 7.8 GALLONS ACCEPTANCE VOLUME....... 6.3 GALLONS MFR. & MODEL #...... BELL & GOSSETT "D15" OR APPROVED EQUAL BY AMTROL OR TACO

C SHUTOFF VALVE

F 3/4" HOSE ADAPTER WITH CAP

G BALL VALVE (CONTRACTOR SHALL REMOVE HANDLE) H PRESSURE RELIEF VALVE, 3/4". SET AT 75 PSIG PRESSURE GAUGE WITH PULSATION SNUBBER J WATER PRESSURE REDUCING VALVE... SET AT 12 PSIG

K LINE STRAINER

M PITCH SYSTEM CONNECTION LINE 1/4" PER LINEAL FOOT TOWARD TANK N LINE SIZE SAME AS TANK CONNECTION SIZE

P 3/4"x18" LONG STAINLESS STEEL BRAIDED HOSE CONNECTOR Q BUTTERFLY VALVE

R GLYCOL FEED TANK – GFT–1

MANUAL VENT

- BALANCING VALVE

ALL VALVE

- 1/2" DRAIN LINE WITH SHUT-OFF VALVE AND

HOSE END ADAPTER

UNIT HEATER PIPING

BALL VALVE

WITH CAP -

3/8" VENT TUBE WITH SHUT-OFF VALVE -

NOTE: LINE VOLTAGE

THERMOSTAT SHALL

CYCLE FAN, ON A

CALL FOR HEATING



## **AXIOM INDUSTRIES HYDRONIC SYSTEM FEEDER: SF100**

HYDRONIC SYSTEM FEEDER SHALL BE AXIOM INDUSTRIES LTD. MODEL SF100. SYSTEM SHALL INCLUDE 208 LITRE (55 US GALLON) STORAGE/MIXING TANK WITH COVER; PUMP SUCTION HOSE WITH INLET STRAINER; PRESSURE PUMP WITH THERMAL CUT-OUT; INTEGRAL PRESSURE SWITCH; INTEGRAL CHECK VALVE; CORD AND PLUG; PRE-CHARGED ACCUMULATOR TANK WITH EPDM DIAPHRAGM; MANUAL DIVERTER VALVE FOR PURGING AIR AND AGITATING CONTENTS OF STORAGE TANK; PRESSURE REGULATING VALVE ADJUSTABLE (35 - 380 KPA; 5 – 55 PSIG) COMPLETE WITH PRESSURE GAUGE; BUILT-IN CHECK VALVE; UNION CONNECTION; 12 MM (1/2") X 900 MM (36") LONG FLEXIBLE CONNECTION HOSE WITH CHECK VALVE; LOW LEVEL PUMP CUT-OUT. PRESSURE PUMP SHALL BE CAPABLE OF RUNNING DRY WITHOUT DAMAGE. POWER SUPPLY 115/60/1 0.7 A. UNIT SHALL BE COMPLETELY PRE-ASSEMBLED AND CERTIFIED BY A RECOGNIZED TESTING AGENCY TO CSA STANDARD C22.2 NO 68.



2PRV - SECOND PRESSURE REDUCING VALVE, PRESSURE GAUGE, SYSTEM CONNECTOR HOSE AND CHECK VALVE TO ALLOW FOR INDEPENDENT PRESSURE SUPPLY TO A SECOND SYSTEM.

RIA10-1-SAA - LOW LEVEL ALARM PANEL C/W REMOTE MONITORING DRY CONTACTS AND SELECTABLE AUDIBLE ALARM. SEE RIA10-1-SAA PRODUCT PAGE FOR ALARM PANEL SPECIFICATIONS



email: sales@axiomind.com website: www.axiomind.com

- EXISTING CURB

#4 @ 12 O.C. ALONG THE
 PERIMETER OF THE EXISTING CURB.
 DOWEL SHALL BE 8<u>" LONG.</u>

9901055 Conforms to UL73

C22.2 No. 68 Ph: (306) 651-1815 Fax: (306) 651-2293 2615 Wentz Avenue, Saskatoon, SK S7K 5J1















DOWEL INTO EXISTING CURB, 4" DEEP IN EPOXY

1"CHAMFER —

DOWEL INTO EXISTING CONCRETE SLAB, 4" DEEP IN EPOXY ------

FIELD VERIFY EXISTING CURB

1" CLEAR ALL AROUND -

TYPICAL FOR ONE

2'-0' +/-

✓ WWF 6×6−W4×W4

- #4 @ 12 O.C. ALONG THE PERIMETER OF THE PAD. 6"

o" .

BOILERS CONCRETE PAD EXTENSION



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Sheet Number H4.2

HVAC - Details

Sheet Title





24 20 8/29/

LIGHT	ING CONTROL DEVICE LEGEND
1	GENERAL PURPOSE 1-POLE SWITCH @48"A.F.F. TO TOP OF TOGGLE HUBBELL #HBL1221W
2	OCCUPANCY SENSOR WALL SWITCH AT 48"A.F.F. SENSOR SWITCH #WSX PDT WH
3	GENERAL PURPOSE 3-WAY SWITCH @48"A.F.F. TO TOP OF TOGGLE HUBBELL #HBL1223W
4	GENERAL PURPOSE 4–POLE SWITCH @48"A.F.F. TO TOP OF TOGGLE HUBBELL #HBL1224W
5	0–10V, LED, 8–AMP, SINGLE–POLE/3–WAY DIMMER LUTRON #DVSTV–453PH–WH DIVA (SEE DETAIL 3/E0–1)
6	OCCUPANCY WALL SWITCH SENSOR WITH LIGHTS & FAN CONTROL AT 48"A.F.F. SENSOR SWITCH #WSX PDT 2P FAN ASHRT WH SET LIGHTS OFF IN 5 MINUTES, FAN OFF IN 15 MINUTES
7	0–10V, LED, 8–AMP, 3–WAY DIMMER LUTRON #DVSTV–453PH–WH DIVA
8	GENERAL PURPOSE 1—POLE SWITCH WITH PILOT LIGHT (IVORY WITH RED COVERPLATE) WIRED TO ILLUMINATE CORRIDOR WARNING LIGHT "THAT INTERVIEW IS IN PROCESS"
9	LOW VOLTAGE DUAL TECHNOLOGY CEILING MOTION SENSOR SENSOR SWITCH CM-PDT-10R WITH PP20 POWER PACK
	NETWORK LIGHTING CONTROL - REFER TO DETAILS DRAWING E0.2

# LIGHTING FIXTURE LEGEND

A,	NEW RECESSED 2x2 FLAT PANEL LED LAY-IN
Bø	NEW SURFACE MOUNT 24" LED STRIP
C 💿	NEW RECESSED 2x4 FLAT PANEL LED LAY-IN
D	NEW SURFACE MOUNT 48" LED STRIP
0	RECESSED DOWNLIGHT
OG	BOLLARD LIGHT
Щ	EXISTING UP/DOWN LIGHT PENDANT
D	WALL MOUNTED SCONCE PATHWAY LIGHT
€	EXISTING EXIT SIGN TO BE REPLACED WITH NEW
ØEX	CEILING MOUNT LED EXIT SIGN
<b>1€1</b> EX	CEILING MOUNT LED EXIT SIGN WITH DIRECTIONAL ARROWS
NOTE	ALL EXIT SIGNS TO BE WIRED AHEAD OF LOCAL SWITCHING DEVICES
1 °	EXISTING LIGHTING FIXTURES ARE RELATIVELY NEW AND SHALL BE REUSED (RELOCATED) BASED ON THE NUMBER TRACKING SHOWN. LETTERED FIXTURES SHALL BE PURCHASED PER LIGHTING FIXTURE SCHEDULE.
EO	EXISTING LIGHTING FIXTURE TO REMAIN
RO	REMOVE AND REINSTALL EXISTING LIGHTING FIXTURE
	REMOVE EXISTING LIGHTING FIXTURE AND REMOVE/REWORK EXISTING BRANCH CIRCUIT

<del></del>	INDICATES NUMI INTENT OF CIRC SHALL VERIFY A
	HOME-RUN TO BREAKER NUMB THE USE OF A
	EACH ARROW IN
~	ELECTRIC MOTO
•	ELECTRICAL CO
o	CONDUIT RISE
-	
52"	INDICATED ON [
$\begin{pmatrix} 1 \\ A-1 \end{pmatrix}$	REFERENCE TO
	NOTE SYMBOL
$\langle 1 \rangle$	REFERENCE TO
D	HEAVY-DUTY, N
<b>⊔</b> 50AF	HEAVY-DUTY N
	MANUAL STARTE
<u>VB</u>	JUNCTION BOX
РР	EXISTING ELECT
	SINGLE-FACED
V	REPLACE EXIT
$\oplus$	EXISTING TO BE
фе	EXISTING TO RE
(∱er	EXISTING RFI OC
6	20A/125V/1PH
	204/125\//104
<b>₩</b>	DOUBLE DUPLE
	DOUBLE DUPLE
<b>@</b> wc	20A/125V/1PH ELECTRICAL COI MANUFACTURER
₿WP	20A/125V/1PH "IN-USE" COVE
•	NEMA L5-30R
▼	NETWORK FLUS PLASTER RING, CEILING. PROVIE
	TWO CAT 6 CAI SPECIFICATIONS
	SMOKE DETECT
	DUCT MOUNTED SYSTEM SENSOI COMPONENT, AN WIRE TO SHUT PANEL,UPON PF
C	CARD READER ALL ACCESS CO
	FLAT TV POWER LEGRAND HT210
D	EXISTING DIMME
	LEVITION FLUSH
F	FBC2F-N NICKE FBBOX-GY FLO FBDIV LOW VOL FBLEV-GY LEVE T5833-W 20-A FB2DE-I 2-Por 41643-W LEVIT TWO 6111 AND ONE
ABBREVIA	TIONS
AFF	ABOVE FINISHE
BKR C	BREAKER
CIR	CIRCUIT
e EC	EXISTING ELECTRICAL CO
EM	EMERGENCY
I FMI	I ELECIRICAL ME

er OR ER

FU

G

FLUSH

GROUND

FUSE



# **DIMMING CONTROL WIRING DIAGRAMS** E0.1 NO SCALE

# ELECTRICAL LEGEND

\_\_\_\_

CONDUIT CONCEALED ABOVE CEILING	OR IN WALL WH	HENEVER POSSIBLE
CONDUIT CONCEALED IN OR BELOW F	LOOR	
INDICATES NUMBER OF CONDUCTORS INTENT OF CIRCUITING AND SWITCHING SHALL VERIFY AND INSTALL ADDITIONA	IN CONDUIT TO G ARRANGEMENT	BE USED AS A GENERAL GUIDE TO SHOW NOT SHOWN IN ALL CASESCONTRACTOR WHERE REQUIRED.
HOME-RUN TO PANELBOARD SHOWING BREAKER NUMBER WITHIN THE PANEL THE USE OF A COMMON NEUTRAL CO	G CIRCUIT DESIG BREAKER LOC NDUCTOR.	GNATION, INDICATING PANEL AND CIRCUIT ATIONS MAY BE REARRANGED TO PERMIT
EACH ARROW INDICATES ONE COMPLE	TE CIRCUIT	
ELECTRIC MOTOR CONNECTION		
ELECTRICAL CONNECTION REQUIRED		
CONDUIT RISE		
CONDUIT DROP		
MOUNTING HEIGHT DESIGNATION IN IN INDICATED ON DRAWINGS SUPERSEDES	CHES ABOVE FI S STANDARD MC	NISHED FLOOR TO CENTERLINEWHEN DUNTING HEIGHT IN LEGEND
REFERENCE TO DETAIL		
NOTE SYMBOL		
REFERENCE TO EQUIPMENT SCHEDULE	SHEET E2.5	
HEAVY-DUTY, NEMA-1, NON-FUSIBLE	DISCONNECT S	WITCH
HEAVY-DUTY, NEMA-3R, FUSIBLE DISC	CONNECT SWITC	H, WITH FUSE SIZE NOTED
DISCONNECT SWITCH PROVIDED INTEGR	RAL WITH EQUIF	PMENT
MANUAL STARTER WITH PILOT LIGHT @	●48"A.F.F.	
JUNCTION BOX		
EXISTING ELECTRIC PANELBOARD		
SINGLE-FACED EXIT SIGN ODUBLE	-FACED EXIT SI	IGN
REPLACE EXIT SIGNS WHERE INDICATE	D AND IN AREA	AS WHERE CEILINGS ARE BEING REPLACED
EXISTING TO BE REMOVED (DEMOLITIO	N)	
EXISTING TO REMAIN		
EXISTING RELOCATED		
20A/125V/1PH/3W, 5-20R, RECEPTA	CLE @18"A.F.F.	
20A/125V/1PH/3W, NEMA 5-20R, D	UPLEX GFCI RE	CEPTACLE @18"A.F.F.
DOUBLE DUPLEX "QUAD" CONVENIENC	E RECEPTACLES	6 @18"A.F.F.
DOUBLE DUPLEX GFCI "QUAD" CONVE	NIENCE RECEPT	ACLES @18"A.F.F.
20A/125V/1PH/3W, NEMA 5–20R, DI ELECTRICAL CONTRACTOR SHALL VERIF MANUFACTURERS DRAWINGS.	UPLEX GFCI REC TY EXACT MOUN	CEPTACLE FOR WATER COOLER. ITING LOCATION WITH WATER COOLER
20A/125V/1PH/3W, NEMA 5-20R, DU "IN-USE" COVERPLATE @18"A.F.F.	UPLEX GFCI RE	CEPTACLE W/WEATHERPROOF
NEMA L5-30R 120V-30A LOCKING R	ECEPTACLE AT	©18"A.F.F. (OR AS NOTED)
NETWORK FLUSH WALL OUTLET, CONS PLASTER RING, @18" A.F.FSTUB 1" CEILING. PROVIDE 4–PORT WALL PLAT	ISTING OF TWO- CONDUIT WITH TE WITH TWO JA	–GANG BOX WITH ONE–GANG PULL WIRE TO ABOVE SUSPENDED ACKS CONNECTED.
TWO CAT 6 CABLES, ABOVE LAY-IN C SPECIFICATIONS AND LEAVE TAILS WHI	CEILING, FOR NE ERE INDICATED	ETWORK DROPS. INSTALL PER FOR TERMINATION BY OWNER'S I.T. DEPT.
SMOKE DETECTOR		
DUCT MOUNTED SMOKE DETECTOR SYSTEM SENSOR D4120 DUCT SMOKE COMPONENT, AND JD4120 POWER BO WIRE TO SHUT DOWN HVAC UNIT, ANI PANEL,UPON PRESENCE OF SMOKE	DETECTOR WIT ARD COMPONEN D ALARM OWNEI	TH SAMPLING TUBES, D4S SENSOR NT (OR APPROVED EQUAL) R'S SECURITY MONITORING
CARD READER @48"A.F.F. TO TOP ALL ACCESS CONTROL WORK TO PRO	VIDED BY OWNE	ER'S ACCESS CONTROL CONTRACTOR
FLAT TV POWER AND CABLE OUTLET LEGRAND HT2102WHV1 IN WALL TV K	– VERIFY HEIGH IT (OR EQUAL)	HT WITH TV BEING INSTALLED
EXISTING DIMMER CONTROL		
LEVITION FLUSH FLOOR BOX INCLUDIN	IG:	
FBC2F-N NICKEL PLATED COVER PLA FBBOX-GY FLOOR BOX FBDIV LOW VOLTAGE DIVIDER FBLEV-GY LEVELING RING T5833-W 20-AMP TYPE-C USB CHA FB2DE-I 2-Port DECORA RECESSED 41643-W LEVITON QUICKPORT DECOR TWO 61110-OL6 EXTREME 6+ 0 AND ONE 41084-BW BLANK QU	TE RGER/TAMPER I DATA STRAP A INSERT, 3-P QUICKPORT CON ICKPORT INSER	RESISTANT RECEPTACLE, WHITE ORT WITH: INECTOR, CAT 6, BLUE T, 10–PACK, WHITE
TIONS		
	000	
ADOVE FINISHED FLOOK BREAKER CONDUIT CIRCUIT	GFI HP JB	GROUND FAULT CIRCUIT PROTECTOR HORSEPOWER JUNCTION BOX

#### KILOVOLT AMPERES KVA ONTRACTOR KW KILOWATT MLO MAIN LUGS ONLY IETALLIC CONDUIT NEC NATIONAL ELECTRIC CODE EXISTING RELOCATED NF NON-FUSED TC TEMPERATURE CONTROL TYP TYPICAL WC WATER COOLER WP WEATHERPROOF

#### ALTERNATE DEDUCTS ALT DEDUCT 01

- REMOVE INTERIOR PAINTING OF SELECTED AREAS OF THE BUILDING ALT DEDUCT 02
- REMOVE EXTERIOR FAÇADE IMPROVEMENTS. EXISTING BUILDING ENVELOPE TO REMAIN ALT DEDUCT 03
- REMOVE INSTALLATION OF SPRAY FOAM INSULATION AT THE UNDERSIDE OF THE METAL ROOF DECK AT BUILDING AREA B ALT DEDUCT 04
- REMOVE ALTERATIONS AT THE POLICE DEPARTMENT TOILET ROOMS [BUILDING AREA C] ALT DEDUCT 05
- REMOVE EXTERIOR SITE LIGHTING

COORDINATE WITH ARCHITECTURAL DRAWINGS / SPECIFICATIONS

#### MUNICIPAL BUILDING RENOVATION CITY OF MORAINE

## ELECTRICAL SCOPE OF WORK

- 1. Administrative Wing
- 1.1 Demolition.
- 1.2 Lighting and receptacle upgrades.
- 1.3 Connections to new HVAC equipment. 1.4 Provide Network cable drops and wall jacks from wall location to designated closet or I.T. Room.

## 2. Lobby

#### 2.1 Demolition.

- 2.2 Replace lighting with new fixtures and retrofit fixtures.
- 2.3 New façade lighting including recessed downlights, color changing LED ribbon light, and sign lighting above canopy.
- 2.4 Lobby Façade, and Chamber lighting to be controlled using a wired Architectural Lighting Control System which will manage programming, dimming, daylight harvesting, timed on/off settings, and color changing LED.

#### 3. Council Chambers

- 3.1 Demolition. 3.2 Replace existing can lights with retrofit fixtures.
- 3.3 Upgrade existing pendant fixture lamping system from fluorescent to LED, then, thoroughly clean fixture inside and out.
- 3.4 All recessed fixtures coming in contact with new batt insulation to be equipped with fire rated
- recessed light cover. 3.5 Digital dimmers and controls consisting of integral dimming drivers in each fixture.
- 3.6 Connections to new HVAC equipment.

### 4. Basement

- 4.1 Mechanical Room: Disconnect existing and connect new HVAC equipment.
- 4.2 Lighting and receptacle upgrades.
- 5. Police Department 5.1 Demolition.

5.2 Miscellaneous lighting and receptacle revisions.

#### 6. Exterior

- 6.1 Exterior lighting to be updated.
- 6.1.1 Bollard lighting at steps / ramps.
- 6.1.2 Replace Bollards (including concrete bases) in park. 6.1.3 Replace recessed wall pathway lights along parking wall.
- 7. General
- 7.1 New devices / face plates lvory.
- 7.2 Connections for new automatic doors
- 7.3 Security camera and Access Control upgrades.
- 7.4 Information Technology upgrades.

#### 8. Security

- 8.1 CCTV work to be provided by Owner using I.M.S. Technology and Security. 8.2 I.M.S. to provide Cameras, licensing, installation, and demolition.
- 9. Access Controls
- 9.1 CCTV work to be provided by Owner using I.M.S. Technology and Security.
- 9.2 I.M.S. to provide Card Readers, Controllers, installation and demolition.
- 9.3 Door locations have been shown on the attached drawings for reference. No Electrical work has been indicated.
- 9.4 Doors requiring access control.
- 9.4.1 Area 'A': • 101 [Card reader & ADA operator]
- 102A [Door release from Receptionist]
- 113 [Existing]
- 114B No longer has access control
- All other existing card readers to the department corridors are to remain
- 9.4.2 Area 'B':
- 140A [ADA Operator] No access control
- 140B [ADA Operator] No access control
- 9.4.3 Area 'C':
- 150 [Card reader, ADA Operator, button release at Reception Desk]
- 154 [Card reader & key like basement evidence room]
- \*All other existing card readers to remain
- 9.4.4 Basement:
- 003 [Existing. Mag lock] needs to be wired to new door
- 007 [New access control]

## **ELECTRICAL - SHEET INDEX**

- E0.1 ELECTRICAL LEGEND & DETAILS E0.2 ELECTRICAL - LIGHTING CONTROL DETAILS AND FLOOR PLANS
- E1.1 ELECTRICAL DEMOLITION 'AREA A & B'
- E1.2 ELECTRICAL DEMOLITION 'AREA C' E2.1 REVISED ELECTRICAL - 'AREA A'
- E2.2 REVISED ELECTRICAL 'AREA B'
- E2.3 REVISED ELECTRICAL 'AREA C' FIRST FLOOR
- E2.4 REVISED ELECTRICAL 'AREA C' BASEMENT
- E2.5 REVISED ELECTRICAL 'AREA A-B-C' ROOF PLAN E2.6 REVISED ELECTRICAL - PARTIAL SITE PLAN
- E3.1 ELECTRICAL ONE-LINE DIAGRAM ELECTRICAL - NORMAL PANEL SCHEDULES E3.2 E3.3 ELECTRICAL - EM PANEL SCHEDULES
  - LIGHTING FIXTURE SCHEDULE

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E0.1



— CAT5e nLight – — CAT5e nLight – -CAT5e nLight-#46 #44 #42 SPLITTER NPODMA 4S DX XX [n\$4SD] NCM PDT 9 RJB [nOS-9] NPP PCD EFP [nPDPCD]

E0.2 NO SCALE





#### **GENERAL NOTES**



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< <u>↑</u> <u>DF</u>	RAWING E1.1 NOTES	
1	EXISTING LIGHTING IN THIS ROOM TO REMAIN, MAINTAIN CONTINUITY IN EXISTING BRANCH CIRCUIT OR POWER FROM NEW CIRCUIT.	
2	EXISTING RECEPTACLE TO REMAIN, MAINTAIN CONTINUITY IN EXISTING BRANCH CIRCUIT OR POWER FROM NEW CIRCUIT.	
3	DISCONNECT AND REMOVE $15A-2P$ CIRCUIT BREAKERS SERVING EXISTING AIR HANDLING UNITS (CIRCUIT D-29,30). REMOVE CONDUIT AND WIRING BACK TO PANEL CIRCUIT BREAKER).	
4	DISCONNECT BRANCH CIRCUIT TO EXISTING CONDENSING UNITS ON ROOF (CIRCUIT D-8,9). REWORK BRANCH CIRCUIT WIRING TO SERVE NEW ROOFTOP UNIT.	
5	REUSE EXISTING BRANCH CIRCUIT BREAKERS TO SERVE NEW LOADS. PROVIDE NEW TYPED PANEL INDEX CARDS TO IDENTIFY CIRCUIT LOADS AND SPARE CIRCUIT BREAKERS. REMOVE ALL ABANDONED (UNUSED) WIRING IN PANEL ENCLOSURE. REPLACE ANY DEFECTIVE BREAKERS. E.C TO INCLUDE ALLOWANCE FOR (6) 20A-1P REPLACEMENT BREAKERS.	
6	DISCONNECT EXISTING LIGHTING FIXTURES THEN CAREFULLY REMOVE AND STORE FOR REUSE.	
7	TYPICAL – REPLACE EXISTING EXIT SIGNS WITH NEW FIXTURES.	
8	TURN ALL WIFI ROUTERS AND SECURITY CAMERAS OVER TO OWNER'S SECURITY CONTRACTOR.	
9	DISCONNECT AND REMOVE THESE CORRIDOR FIXTURES, THEN, RECONNECT NEW FIXTURES.	

10 REMOVE EXISTING LIGHT FIXTURES SHOWN AS 'DASHED'. IF POSSIBLE, REUSE EXISTING BRANCH CIRCUITING TO SERVE NEW FIXTURE LAYOUT.

11 EXISTING PENDANT MOUNT FIXTURES TO REMAIN. LAMP AND BALLAST SYSTEMS SHALL BE REPLACED WITH EQUIPMENT AS DESCRIBED IN LIGHTING FIXTURE SCHEDULE.

12 REMOVE EXISTING ADA PUSHPLATE AND WIRING BACK TO SOURCE. PROVIDE FINISH SYTLE STAINLESS STEEL COVERPLATE OVER REMAINING WALL OPENING.

13 REMOVE EXISTING BOLLARD LIGHT AND CONCRETE BASE AND MAKE WIRING CONTINUOUS.

14 REMOVE EXISTING LIGHTING FIXTURE CONTROLS AND REPLACE WITH NEW PER DETAIL 1/EO.2. REPAIR WALL, IF NECESSARY, OR PROVIDE OVERSIZED COVERPLATE TO REPAIR OR COVER ANY WALL SURFACE DAMAGE. 15 REMOVE AND REPLACE EXISTING CEILING SPEAKERS, AS REQUIRED, G.C. TO REPLACE CEILING TILES. COORDINATE ANY WIRING REPAIRS WITH OWNER'S SOUND SYSTEM REPRESENTATIVE. 16 EXISTING CABINET HEATER TO BE REPLACED BY HVAC CONTRACTOR. THE E.C. SHALL DISCONNECT EXISTING UNIT AND PROVIDE NEW CONNECTIONS TO REPLACEMENT UNIT. 17 TYPICAL..."LOW HANGING" I.T. CABLES TO BE REROUTED BY OWNER.

'AREA A' DEMOLITION SCALE: 1/8"= 1'-0"



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	RAWING E1.2 NOTES
1	REMOVE AND REPLACE EXISTING LIGHTING FIXTURES IN THIS AREA OR ROOM, INCLUDING EXIT SIGNS. EXISTING WIRING TO REMAIN FOR REUSE TO FEED NEW FIXTURES.
2	RELOCATE EXISTING WALL SWITCHES TO ACCOMMODATE NEW WALL CONSTRUCTION.
3	COORDINATE AND REMOVE EXISTING HOT WATER WATER PUMP STARTERS AND ASSOCIATED CONDUIT, WIRING & DEVICES. REUSE EXISTING CONDUITS IF POSSIBLE TO RUN NEW BRANCH CIRCUITS.
4	COORDINATE AND REMOVE EXISTING CHILLED WATER PUMP STARTERS AND ASSOCIATED CONDUIT, WIRING & DEVICES. REUSE EXISTING CONDUITS IF POSSIBLE TO RUN NEW BRANCH CIRCUITS.
5	COORDINATE AND REMOVE EXISTING HW BOILER AND ASSOCIATED CONDUIT, WIRING, DEVICES AND MOTOR CONNECTIONS. REUSE EXISTING CONDUITS IF POSSIBLE TO RUN NEW BRANCH CIRCUITS.
6	TYPICAL"LOW HANGING" I.T. CABLING TO BE REROUTED BY OWNER.
7	DISCONNECT EXISTING AHU—1 UNIT, WHICH IS CURRENTLY FED FROM PANEL C(EM) IN POLICE BASEMENT. BASED ON EXISTING DRAWINGS THE FEEDER SIZE SHOULD BE 3#1/0,#6GRD.1—1/2"C.
	REPLACE FEEDER WITH 3#3, #8GRD. USING EXISTING CONDUIT.
	REPLACE EXISTING 150A—3P BREAKER, IN PANEL C(EM), WITH NEW 90A—3P QOBVH BREAKER (HACR RATED). PROVIDE FILLER PLATES ON SPACES WHICH BECOME BLANK.
8	COORDINATE AND REMOVE EXISTING DOMESTIC WATER HEATER AND CIRCULATING PUMP CONDUIT, WIRING, AND CONNECTIONS. REUSE EXISTING CONDUITS IF POSSIBLE TO RUN NEW BRANCH CIRCUITS.
9	DISCONNECT POWER TO EXISTING ROOF MOUNTED EQUIPMENT, THEN, RECONNECT AFTER NEW EQUIPMENT HAS BEEN INSTALLED.
10	DISCONNECT POWER TO EXISTING ROOF MOUNTED EQUIPMENT AND REMOVE CONDUIT & WIRE BACK TO SOURCE.
11	DISCONNECT POWER TO EXISTING UNIT HEATER, THEN, RECONNECT AFTER NEW EQUIPMENT HAS BEEN INSTALLED.
12	DISCONNECT POWER TO EXISTING CABINET HEATER, THEN, RECONNECT AFTER NEW CABINET HEATER HAS BEEN INSTALLED.
13	COORDINATE AND REMOVE EXISTING BOILER CONTROL PANEL SEQUENCER CONDUIT & WIRING.
14	COORDINATE AND REMOVE EXISTING FAN POWERED MIXING BOX CONDUIT, WIRING, AND CONNECTIONS. REUSE EXISTING CONDUITS IF POSSIBLE TO RUN NEW BRANCH CIRCUITS.

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DRAWING E2.1 NOTES 1 DOOR 101: THIS DOOR TO BE EQUIPPED WITH ADA DOOR OPERATOR: PROVIDE 20A-120V BRANCH CIRCUIT TO SERVE NEW ADA DOOR OPERATOR. • PROVIDE MANUAL STARTER DISCONNECT NEAR OPERATOR FOR SERVICING. • WIRE AND INSTALL PUSH BUTTONS PROVIDED WITH DOOR PACKAGE. • ALL WIRING TO BE CONCEALED IN SUITABLE RACEWAY. EGRESS IS ALWAYS AVAILABLE FROM CORRIDOR 105. 2 CONNECT NEW LIFE SAFETY LIGHTING TO EXISTING EMERGENCY LIGHTING BRANCH CIRCUIT. 3 DOOR 102A: THIS DOOR TO BE EQUIPPED WITH NEW CARD READER AND CONTROL: • CARD READER AND ASSOCIATED WIRING BY I.M.S. TECHNOLOGY AND SECURITY. • ALL WIRING TO BE CONCEALED IN DOOR FRAME OR SUITABLE RACEWAY. • EGRESS IS ALWAYS AVAILABLE FROM CORRIDOR 105. 4 EXISTING CARD READER ACCESS TO REMAIN. 5 SAWCUT FLOOR SLAB AND INSTALL 3/4"C. FOR POWER AND 1" CONDUIT FOR DATA. RUN DATA CONDUIT TO CEILING CAVITY. 6 TYPICAL..PROVIDE 14/3 CABLE WITH GROUND TO CONNECT INDOOR CASSETTE WITH CONDENSING UNIT ON ROOF. 7 PROVIDE 3/4" x 48" x 96" PLYWOOD BACKBOARD PAINTED ON ALL SIDES WITH FIRE RETARDANT PAINT. MOUNT RECEPTACLES NEAR TOP CORNERS OF BACKBOARD. PROVIDE A 2" x 10" GROUNDING BAR AND #6 INSULATED CONDUCTOR BACK TO PANEL GROUND BUS SERVING RECEPTACLES. 8 ADD TWO 20A-1P AND TWO 30A-1P CIRCUIT BREAKERS TO EXISTING PANEL TO HANDLE NEW

BRANCH CIRCUITS IN I.T. ROOM. 9 SECURITY CAMERA BY OWNER'S SECURITY CONTRACTOR.

10 TERMINATE DATA CABLES AT THIS LOCATION. LEAVE 8-10' TAILS FOR USE BY OWNER.

11 DEDICATED CIRCUIT FOR SHELF MOUNTED MICROWAVE RECEPTACLE. VERIFY HEIGHT WITH ARCHITECT ON JOB SITE.

- 14 DOOR 105: NEW ACCESS CONTROL TO BE PROVIDED BY I.M.S. TECHNOLOGY AND SECURITY. • EGRESS TO BE AVAILABLE FROM CORRIDOR 105 AT ALL TIMES.



- 12 TYPICAL LOCATE RECEPTACLES 6" ABOVE COUNTERTOP TO CENTERLINE.
- 13 PROVIDE RECEPTACLE BELOW COUNTER FOR UNDERCOUNTER REFRIGERATOR.
- 15 EXISTING CARD READER ACCESS TO REMAIN.
- 16 CONNECT NEW LIGHTING FIXTURE TO EXISTING BRANCH CIRCUIT.
- 17 NO WORK THIS AREA.

'AREA A' REVISED SYSTEMS SCALE: 1/8"= 1'-0"

ROOM INDEX 001 STAIR 002 LOBBY 003 CORRIDOR 004 KITCHEN 005 MECHANICAL 006 STAIR 007 EQUIPMENT

008 CLOSET 009 LOBBY 110 EVIDENCE 011 CLOSET 012 WOMEN'S 013 MEN'S 014 STORAGE 015 COMPUTER EQUIPMENT 100NOTUSED101NOTUSED102WAITING103RECEPTION104I.T. 105 CORRIDOR 106 NOT USED 107 STORAGE 108 CONFERENCE 109 MAYOR OFFICE 110 PROSECUTOR 111 CLERK STORAGE 112 I.T. 113 CLERK OPEN OFFICE 114 CORRIDOR 115 CONSULT 116 BREAK 117 CORRIDOR 118 MEN'S 119 WOMEN'S 120 WOMEN 121 JANITOR 122 MEN 123 CORRIDOR 124 PAYMENTS 125 126 127 128 129 130 131 VESTIBULE 132 WORK ROOM 133 OFFICE 134 FILES 135 OFFICE 136 OFFICE 140 ENTRY CORRIDOR 141 STORAGE 142 COUNCIL CHAMBERS 143 AUDIO CLOSET 144 LOBBY 145 STAIR 146 DISPATCH WINDOW 147 148 149 150 CORRIDOR 151 INTERVIEW ROOM 152 INTERVIEW ROOM 153 STORAGE 154 EVIDENCE

155 HOLDING CELL 156A CONTAINED AREA 156B VESTIBULE 157 PROCESSING 158 ENTRY 159 WOMEN'S 160 CORRIDOR 161 MEN'S 162 UNISEX 163 CORRIDOR 164 165 STORAGE 166 RECEPTION 167 STORAGE 168 OFFICE 169 OFFICE 170 OFFICE 171 SECRETARY 172 STORAGE 173 CORRIDOR 174 CLOSET 175 CHIEF OF POLICE 176 CLOSET 177 CONFERENCE

178 CORRIDOR

179 DISPATCH



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### DRAWING E2.2 NOTES $\langle 1 \rangle$

- 1 DOOR 140A & 140B: THESE DOORS TO BE EQUIPPED WITH ADA DOOR OPERATORS: PROVIDE 20A-120V BRANCH CIRCUIT TO SERVE NEW ADA DOOR OPERATOR.
  PROVIDE MANUAL STARTER DISCONNECT NEAR OPERATOR FOR SERVICING.
  WIRE AND INSTALL PUSH BUTTONS PROVIDED WITH DOOR PACKAGE. • ALL WIRING TO BE CONCEALED IN STOREFRONT FRAMING OR SUITABLE RACEWAY.
- 2 MOCK UP ONE FIXTURE, WITH NEW LAMPING SYSTEM, FOR OWNER/ENGINEER TO REVIEW PRIOR
- TO RETROFITTING ALL FIXTURES. 3 PROVIDE CONNECTION AND BRANCH CIRCUIT FOR SIGN LIGHTING ABOVE DOOR CANOPY.
- 4 PROVIDE RECESSED LIGHT COVERS OVER TYPE "N" FIXTURES TO SEPARATE FIXTURE AND
- DRIVER FROM BATT INSULATION. 5 NEW BOLLARD ... EXTEND EXISTING BRANCH CIRCUIT, SERVING BOLLARDS, AND NEW CONCRETE
- BASE SIMILAR TO DETAIL 1/E2.6.
- 6 TYPICAL...WIRE EXIT SIGNS AHEAD OF LOCAL SWITCHING.
- 7 PROVIDE NEW EMERGENCY POWER BRANCH CIRCUIT FROM EXISTING PANEL F(EM).
- 8 TYPICAL...REPURPOSE EXISTING ABANDONED BRANCH CIRCUIT BREAKER IN PANEL INDICATED.
- 2-E0.2. PROVIDE EMERGENCY POWER BRANCH CIRCUIT FROM PANEL F(EM).

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

9 INVERTER TO POWER LIGHTING CONTROLS AND EGRESS LIGHTING IN CHAMBERS. SEE DETAIL



## 015 COMPUTER EQUIPMENT

ROOM INDEX

003 CORRIDOR 004 KITCHEN 005 MECHANICAL

001 STAIR 002 LOBBY

006 STAIR 007 EQUIPMENT 008 CLOSET 009 LOBBY 110 EVIDENCE 011 CLOSET

012 WOMEN'S 013 MEN'S

014 STORAGE

100 NOT USED

101 NOT USED 102 WAITING 103 RECEPTION 104 I.T. 105 CORRIDOR 106 NOT USED 107 STORAGE

112 I.T.

114 CORRIDOR

115 CONSULT

117 CORRIDOR 118 MEN'S

119 WOMEN'S

123 CORRIDOR

124 PAYMENTS

131 VESTIBULE 132 WORK ROOM

133 OFFICE 134 FILES

135 OFFICE

136 OFFICE

141 STORAGE

153 STORAGE

154 EVIDENCE

156B VESTIBULE 157 PROCESSING

158 ENTRY

161 MEN'S

164

162 UNISEX

163 CORRIDOR

165 STORAGE

167 STORAGE

168 OFFICE 169 OFFICE

170 OFFICE

166 RECEPTION

171 SECRETARY

172 STORAGE

174 CLOSET

176 CLOSET

177 CONFERENCE

178 CORRIDOR

179 DISPATCH

173 CORRIDOR

159 WOMEN'S 160 CORRIDOR

125

147 148 149

120 WOMEN 121 JANITOR 122 MEN

116 BREAK

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108 CONFERENCE 109 MAYOR OFFICE 110 PROSECUTOR 111 CLERK STORAGE 113 CLERK OPEN OFFICE

140 ENTRY CORRIDOR 142 COUNCIL CHAMBERS 143 AUDIO CLOSET 144 LOBBY

145 STAIR 146 DISPATCH WINDOW

150 CORRIDOR 151 INTERVIEW ROOM 152 INTERVIEW ROOM

155 HOLDING CELL 156A CONTAINED AREA

175 CHIEF OF POLICE











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

DRAWING E2.3 NOTES ON ROOF. IMS SECURITY.

'AREA C' REVISED SYSTEMS

003 CORRIDOR 004 KITCHEN

005 MECHANICAL 006 STAIR

001 STAIR 002 LOBBY

### 007 EQUIPMENT 008 CLOSET 009 LOBBY 110 EVIDENCE 011 CLOSET 012 WOMEN'S 013 MEN'S 014 STORAGE 015 COMPUTER EQUIPMENT 100 NOT USED 101 NOT USED 102 WAITING 103 RECEPTION 104 I.T. 105 CORRIDOR 106 NOT USED 107 STORAGE 108 CONFERENCE 109 MAYOR OFFICE 110 PROSECUTOR 111 CLERK STORAGE 112 I.T. 113 CLERK OPEN OFFICE 114 CORRIDOR 115 CONSULT 116 BREAK 117 CORRIDOR 118 MEN'S 119 WOMEN'S 120 WOMEN 121 JANITOR 122 MEN 123 CORRIDOR 124 PAYMENTS 125 126 127 128 129 130 131 VESTIBULE 132 WORK ROOM 133 OFFICE 134 FILES 135 OFFICE 136 OFFICE 140 ENTRY CORRIDOR 141 STORAGE 142 COUNCIL CHAMBERS 143 AUDIO CLOSET 144 LOBBY 145 STAIR 146 DISPATCH WINDOW 147 148 149 150 CORRIDOR 151 INTERVIEW ROOM 152 INTERVIEW ROOM 153 STORAGE 154 EVIDENCE 155 HOLDING CELL 156A CONTAINED AREA 156B VESTIBULE 157 PROCESSING 158 ENTRY 159 WOMEN'S 160 CORRIDOR 161 MEN'S 162 UNISEX 163 CORRIDOR 164 165 STORAGE 166 RECEPTION 167 STORAGE 168 OFFICE 169 OFFICE 170 OFFICE

1 PROVIDE 14/3 CABLE WITH GROUND TO CONNECT INDOOR CASSETTE WITH CONDENSING UNIT

2 DOOR 154: THIS DOOR TO BE EQUIPPED WITH NEW CARD READER AND CONTROL: CARD READER AND ASSOCIATED WIRING BY I.M.S. TECHNOLOGY AND SECURITY.
ALL WIRING TO BE CONCEALED IN DOOR FRAME OR SUITABLE RACEWAY. 3 PROVIDE DUCT MOUNTED SMOKE DETECTOR, IN RETURN AIR DUCTWORK BELOW, AND WIRE TO

EXISTING IMS SECURITY PANEL IN SECURITY DISPATCH. 4 IMS SECURITY PANEL - COORDINATE WIRING TERMINATIONS FOR NEW DUCT DETECTORS WITH

5 CONNECT NEW RECEPTACLE TO EXISTING BRANCH CIRCUIT SERVING THIS ROOM. 6 WIRE IN PARALLEL TO CONTROL EXHAUST FAN EF-6.

7 DOOR 150: TO BE EQUIPPED WITH ADA DOOR OPERATOR AND CARD READER & CONTROL: • PROVIDE 20A-120V BRANCH CIRCUIT TO SERVE NEW ADA DOOR OPERATOR.

• PROVIDE MANUAL STARTER DISCONNECT NEAR OPERATOR FOR SERVICING. • WIRE AND INSTALL PUSH BUTTONS PROVIDED WITH DOOR PACKAGE. • PROVIDE AND WIRE PUSHBUTTON IN DISPATCH TO OPEN DOOR REMOTELY. • CARD READER AND ASSOCIATED WIRING BY I.M.S. TECHNOLOGY AND SECURITY. • ALL WIRING TO BE CONCEALED IN DOOR FRAME OR SUITABLE RACEWAY.

8 CONNECT NEW LIGHTING FIXTURE(S) TO EXISTING LIGHTING CIRCUIT AND SWITCH CONTROL.



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175 CHIEF OF POLICE

171 SECRETARY

172 STORAGE

176 CLOSET

179 DISPATCH

177 CONFERENCE 178 CORRIDOR

173 CORRIDOR 174 CLOSET





Project N 2023-	Number 215 / HL#6695										
Date	02,0004										
April	03, 2024										
Date	Issue										
07.03.24 90% CD											
08.07.24 FINAL REVIEW											
08.30.24 BID/CONSTRUCTION SET											
Sheet Tit	le										
Revise 'Area	əd Electrical C' First Floor										
Shoot Nu	umber										







1 PROVIDE 1-POLE LIGHT SWITCH TO CONTROL LIGHTING FURNISHED WITH AHU-1. 2 REFER TO BOILER POWER VENT SYSTEM DIAGRAM FOR CF-1 ON DRAWING H0.2. 3 THIS DOOR EQUIPPED WITH EXISTING MAG LOCK: 4 THIS DOOR TO BE EQUIPPED WITH NEW ACCESS CONTROL: 5 PROVIDE 1/8" A12 SUSPENDED ACRYLIC LENS PANELS BELOW EXISTING STRIP LIGHT. • PROVIDE USG (OR EQUAL) 7/8" WALL MOLDING AND 15'16" CROSS TEES AT MAXIMUM 48" ON CENTER. • PROVIDE ADEQUATE SEPERATION BETWEEN LENS AND LIGHT FIXTURE FOR RELAMPING.

001 STAIR 002 LOBBY 003 CORRIDOR 004 KITCHEN 005 MECHANICAL 006 STAIR 007 EQUIPMENT 008 CLOSET 009 LOBBY 110 EVIDENCE 011 CLOSET 012 WOMEN'S 013 MEN'S 014 STORAGE 015 COMPUTER EQUIPMENT 100 NOT USED 101 NOT USED 102 WAITING 103 RECEPTION 104 I.T. 105 CORRIDOR 106 NOT USED 107 STORAGE 108 CONFERENCE 109 MAYOR OFFICE 110 PROSECUTOR 111 CLERK STORAGE 112 I.T. 113 CLERK OPEN OFFICE 114 CORRIDOR 115 CONSULT 116 BREAK 117 CORRIDOR 118 MEN'S 119 WOMEN'S 120 WOMEN 121 JANITOR 122 MEN 123 CORRIDOR 124 PAYMENTS 125 126 127 128 129 130 131 VESTIBULE 132 WORK ROOM 133 OFFICE 134 FILES 135 OFFICE 136 OFFICE 140 ENTRY CORRIDOR 141 STORAGE 142 COUNCIL CHAMBERS 143 AUDIO CLOSET 144 LOBBY 145 STAIR 146 DISPATCH WINDOW 147 148 149 150 CORRIDOR 151 INTERVIEW ROOM 152 INTERVIEW ROOM 153 STORAGE 154 EVIDENCE 155 HOLDING CELL 156A CONTAINED AREA 156B VESTIBULE 157 PROCESSING 158 ENTRY 159 WOMEN'S 160 CORRIDOR 161 MEN'S 162 UNISEX 163 CORRIDOR 164 165 STORAGE 165 STORAGE
166 RECEPTION
167 STORAGE
168 OFFICE
169 OFFICE
170 OFFICE
171 SECRETARY
172 STORAGE
173 CORRIDOR
174 CLOSET
175 CHIEF OF POLICE
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177 CONFERENCE
178 CORRIDOR
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ROOM INDEX



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Project Number 2023-215 / HL#6695 Date April 03, 2024 Date Issue 07.03.24 90% CD 08.07.24 FINAL REVIEW 08.30.24 BID/CONSTRUCTION SET 08.30.24 BID/CONSTRUCTION SET 08.30.24 BID/CONSTRUCTION SET 08.30.24 BID/CONSTRUCTION SET 08.30.24 BID/CONSTRUCTION SET 09.00000000000000000000000000000000000														
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							102			DEV	VICE	3		OV	ERC	CURI	RENT DE	Л.	İ			
UNIT NO.	EQUIPMENT SERVED	HP/KW/FLA	МСА	МОСР	120V-1PH	208V-1PH	208V-3PH	60A-3P FUSED; NEMA-3R BY E.C.	CIRCUIT BREAKER PROVIDED WITH UNIT	PROVIDED WITH INTEGRAL DISCONNECT	CORD AND PLUG	FRACTIONAL HP MANUAL STARTER BY E.C.	PANELBOARD CIRCUIT BREAKER	INTEGRAL WITH EQUIPMENT	FRACTIONAL HP MANUAL SWITCH BY E.C.	VFD PROVIDED BY HVAC INSTALLED BY E.C.			14/3 INTERLOCK BETWEEN INDOOR & OUTDOOR UNIT BY E.C.	INTEGRAL RCPT. AND POWER XFMR	RESTROOM MOTION SENSOR	MANUAL LIGHT SWITCH
1			25.0	35A/2D														$\dashv$		┝	$\vdash$	$\rightarrow$
		14.8 FLA	25.0	35A/2P			-							•				_		├─	$\left  - \right $	$\rightarrow$
2		14.0 FLA	25.0	354/2P			-		<u> </u>	-	<u> </u>	<u> </u>						_		-	$\vdash$	$\rightarrow$
4	AIR CONDITIONER AC-4	14.8 FLA	25.0	35A/2P			-							•				_		$\vdash$	$\vdash$	
5	AH-A ROOFTOP UNIT (FXISTING)	14.01 2/(	20.0	00/ \\ 21			-	┢		-				-				—		$\vdash$	$\vdash$	$\rightarrow$
6	AH-B ROOFTOP UNIT (3000CFM)	3HP:53 FLA	48.0	60A/3P			•		•					•				┥		•	┢──┼	-
7	AH-C ROOFTOP UNIT (1200CFM)	3/4HP:23 FLA	23.0	30A/3P			•		•					•				-		•		
8	AH-D ROOFTOP UNIT (1500CFM)	1HP; 25 FLA	25.0	30A/3P			•		•					•						•		
9	EXHAUST FAN EF-1	13.4 W	20.0	20A/1P	•					•										$\square$		
10	EXHAUST FAN EF-2	13.4 W	20.0	20A/1P	•					•												
11	EXHAUST FAN EF-3	22.4 W	20.0	20A/1P	•					•					•			Τ				•
12	EXHAUST FAN EF-4	1/10HP;1.38A	2.0	15A-1P	•					•												
13	CABINET HEATER CH-1	2 KW	12.0	20A/2P		•				•				•								
14	HEAT PUMP #AC-5	14.8 FLA	25.0	35A/2P		•		•						•					•			
15	EXHAUST FAN EF-R	3/4HP; 8.8A	11.0	20A/1P	•					•					•							
16		45FLA	55.5	90A-3P			•			•						•						
47			10.0	004.05	•								•							$\vdash$		•
1/		3HP;11.0A	13.8	20A-3P						•		-						_		-	$\left  - \right $	-+
10		50 3EL A	73.0	1004 3P	┞╸					-								-			$\left  - \right $	-
20		09.3FLA	n a	204-30			-	_		-								-		┢	$\left  - \right $	-+
20		1 44	1.8	20A-1P		-	-	┢			-			F				4			┝─┤	$\rightarrow$
22	CABINET HEATER CH-2	38W	2.8	20A-1P			-	$\vdash$		•	-			•				$\neg$		$\vdash$	┢─┤	-+
23	WATER HEATER DWH-1	7.5A	9.4	20A-1P	•				-			•		Ĕ	•			—		$\vdash$	$\left  \right $	$\neg$
24	COMBUSTION FAN CF-1	0.5HP	2.3	20A-1P	•		-	$\vdash$			-	•		•	<u> </u>			$\neg$		<u> </u>		$\rightarrow$
25	FAN POWERED MIXING BOXES FPMB-04 AND 05	1HP;9.6A	12	25A-2P	† i	•						•			•			$\neg$		<u> </u>	$\square$	$\neg$
26	EXHAUST FAN EF-5	1/10HP;1.38A	2.0	15A-1P	•			1		•		•			•			+		<u> </u>		$\neg$
27	EXHAUST FAN EF-6	1/10HP;1.38A	2.0	15A-1P	•			1				•		•							•	$\neg$
28	BOILER PUMPS BP-1 AND BP-2	1/2HP;12.4A	15.5	15A-1P	•					•				•								
29	HW PUMPS HP-1 AND HP-2	3HP;9.6A	12.0	20A-3P			•															
30	CW PUMPS CP-1 AND CP-2	7.5HP;19.5A	24.4	40A-3P			•													<u> </u>	$\square$	
31		1/12HP;0.55	0.10	20A-1P	•		<u> </u>	<u> </u>		<u> </u>		•			•					<u> </u>	$\square$	$ \downarrow$
					L_		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>						$\square$		_	$\left  - \right $	-+
					-		<u> </u>		<u> </u>			<u> </u>						-			$\left  - \right $	-+
					⊢		-			<u> </u>		<u> </u>						-			$\left  - \right $	-+
			I		1			1											L			

8/29/2024





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## DRAWING E2.6 NOTES

- 1 REPLACE EXISTING COLOR CHANGING BOLLARD LIGHT FIXTURE AND BASE WITH NEW. REFER TO DETAIL 1/E2.6 ON THIS DRAWING.
- INCLUDE COMMISSIONING AND TRAINING TIME TO:
- INSTRUCT OWNER REGARDING USE OF HUBBELL "RGBW CONNECT" SMART DEVICE APP. ON OWNER'S SMART DEVICE.
  SET PRESETS TO OWNER'S SATISFACTION.
- 2 REPLACE EXISTING RECESSED WALL LIGHT WITH NEW SURFACE MOUNTED LIGHT. SEAL FIXTURE PERIMETER AT WALL WITH CLEAR ACRYLIC CAULK.
- 3 NEW BOLLARD...EXTEND EXISTING BRANCH CIRCUIT, SERVING BOLLARDS, AND NEW CONCRETE BASE SIMILAR TO DETAIL 1/E2.6.

8/29/2024 WECHELMAN 8/29/2024 9:25:28 AM H:\66005\66655\6695-E1.dwg copyright 2024 © Helmig Lienesch LL(







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RISER DIAGRAM AT TRANSFORMER E3.1 NO SCALE





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PANELBOARD SCHEDULE A	PANELBOARD SCHEDULE E									
PANEL: ALOCATION: DISPATCH WINDOW 146VOLTAGE: 120/208V-3PH-4WMOUNTING: FLUSHTYPE: 225A M.L.O. CUTLER HAMMER CHBMOUNTING: FLUSH	PANEL: ELOCATION: MECH. ROOMVOLTAGE: 120/208V-3PH-4WMOUNTING: SURFACETYPE: 225A M.L.O. CUTLER HAMMER CHBOUNTING: SURFACE									
C.B.         KVA         LOAD         WIRE         C.B.         WIRE         LOAD         KVA         C.B.           NO.         A         B         C         DESCRIPTION         SIZE         POLE         AMP.         POLE         AMP.         SIZE         DESCRIPTION         A         B         C         NO.	C.B.     KVA     LOAD     WIRE     C.B.     WIRE     LOAD     M       NO.     A     B     C     DESCRIPTION     SIZE     POLE     AMP.     POLE     AMP.     SIZE     DESCRIPTION     A									
1         2         5         5         6         1         20         1 </td <td>1LIGHTS KITCHEN120120LIGHTS 02 &amp; RADIO3LIGHTS PISTOL RANGE120120SPARE15SPARE120120LIGHTS ROOM 11,0117RESTROOM BASEMENT120120CORRIDOR,LOUNGE19RCPTS. RADIO ROOM120120SPARE111RCPTS. RADIO ROOM120120SPARE113SPARE120120SPARE115RCPTS RESTROOMS120120SPARE117NAM CARRIER CONTROLLER120120SPARE119RCPTS. &amp; DISPOSER120120SPARE123RCPTS. &amp; ROLL WARMER120120KITCHEN 09125SPARE120120LIGHT DUMBWAITER129SUMP PUMP RCPT.120120SPARE129SPARE120120SPARE1</td>	1LIGHTS KITCHEN120120LIGHTS 02 & RADIO3LIGHTS PISTOL RANGE120120SPARE15SPARE120120LIGHTS ROOM 11,0117RESTROOM BASEMENT120120CORRIDOR,LOUNGE19RCPTS. RADIO ROOM120120SPARE111RCPTS. RADIO ROOM120120SPARE113SPARE120120SPARE115RCPTS RESTROOMS120120SPARE117NAM CARRIER CONTROLLER120120SPARE119RCPTS. & DISPOSER120120SPARE123RCPTS. & ROLL WARMER120120KITCHEN 09125SPARE120120LIGHT DUMBWAITER129SUMP PUMP RCPT.120120SPARE129SPARE120120SPARE1									
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	31       Image: Sector of the se									
41     2     30     3FARE     42       TOTAL KVA = 0.0     LINE AMP. = 0.0       DEMAND AMP. = 13.9	41     TOTAL KVA = 0.0       LINE AMP. = 0.0       DEMAND AMP. = 0.0									

PANELBOARD SCHEDULE B	PANELBOARD SCHEDULE F	PANELBOARD SCHEDULE LP2						
PANEL: BLOCATION: DISPATCH WINDOW 146VOLTA GE: 120/208V-3PH-4WMOUNTING: FLUSHTYPE: 225A M.L.O. CUTLER HAMMER CHBMOUNTING: FLUSH	PANEL: FLOCATION: MECH. ROOMVOLTA GE: 120/208V-3PH-4WMOUNTING: SURFACETYPE: 225A M.L.O. CUTLER HAMMER CHBTYPE: 225A M.L.O. CUTLER HAMMER CHB	PANEL: LP2LOCATION: POLICE BASEMENT ELECTRIC ROOMVOLTAGE: 120/208V-3PH-4WMOUNTING: SURFACETYPE: 225A M.L.O. SQUARE-D NQOD						
C.B.     KVA     LOAD     WIRE     C.B.     WIRE     LOAD     KVA     C.B.       NO     A     B     C     DESCRIPTION     SIZE     POLE     AMP     SIZE     DESCRIPTION     A     B     C     NO	KVA     LOAD     WIRE     C.B.     WIRE     LOAD     KVA     C.B.       NO.     A     B     C     DESCRIPTION     SIZE     POLE     AMP.     POLE     AMP.     SIZE     DESCRIPTION     A     B     C     NO.	C.B. $KVA$ LOADWIREC.B.WIRELOAD $KVA$ CNO.ABCDESCRIPTIONSIZEPOLEAMP.SIZEDESCRIPTIONABCN						
InitialDescription <td>1111120120120120120230RCPTS. MECH. ROOM1120120RCPTS.ECH ROOM0004500012012012080ILER 2 CONTROL0006700001201200SPRINKLER SYSTEM0068900RCPTS. 01,111120120DIMMERS N. ROOM 01001010110SPARE (ROOM 01)120120TARGET DR ROOM 01001212130DIMMERS S. ROOM 01120120SPARE (ROOM 01)1412141500SPARE TO MAYOR'S OFFICE120120SPARE01616191.06EF-R12120120SPARE002020210SPARE12120120SPARE002020210SPARE0120120REFRIG. KITCHEN022</td> <td>1       ROOM 001,007 LIGHTS       1       20       1       20       SOFFIT LIGHTS       0       0       0         3       ROOM 006 MEN'S RESTROOM LIGHTS       1       20       1       20       1       20       0</td>	1111120120120120120230RCPTS. MECH. ROOM1120120RCPTS.ECH ROOM0004500012012012080ILER 2 CONTROL0006700001201200SPRINKLER SYSTEM0068900RCPTS. 01,111120120DIMMERS N. ROOM 01001010110SPARE (ROOM 01)120120TARGET DR ROOM 01001212130DIMMERS S. ROOM 01120120SPARE (ROOM 01)1412141500SPARE TO MAYOR'S OFFICE120120SPARE01616191.06EF-R12120120SPARE002020210SPARE12120120SPARE002020210SPARE0120120REFRIG. KITCHEN022	1       ROOM 001,007 LIGHTS       1       20       1       20       SOFFIT LIGHTS       0       0       0         3       ROOM 006 MEN'S RESTROOM LIGHTS       1       20       1       20       1       20       0						
23       EXH. FAN 3 ROOF       1       20       1       20       EXH. FAN 4 ROOF       24         25       SPARE       1       20       1       20       HEATER CORRIDOR 121       26         27       SPACE HEATER GARAGE       1       20       1       20       12       DOOR 140B ADA OPERATOR       1.00       28	23       CONTACTOR       1       20       1       SPARE       24         25       Image: Contactor of the system of the	25       SALLY PORT LIGHTS       1       20       1       20       ROOM 103 RCPTS.       1       20         27       SPARE       1       20       1       20       ROOM 103 RCPTS.       1       20         29       ROOM 106,105,103 LIGHTS       1       20       1       20       REFRIGERATOR       1       20						
29       EXH. FAN ROOF       1       20       1       20       12       DOOR 150 ADA OPERATOR       10       30         31       SPARE       1       20       1       20       12       CATWALK RCPT. & LIGHTS       0.40       32         33       220VAC HEATER POLICE CHIEF       1       20       1       20       CEILING & WALL HEATER       34         35       35       36       36       36       36       36	31       31       32         33       33       33         35       35	31ROOM 113 LIGHTS120120CARPORT PANEL33LOCKER POWER-WOMEN'S120120CARPORT PANEL35LOCKER POWER-MEN'S120120GARAGE DOOR OPENER37LOCKER POWER-MEN'S1201200						
37       37       NEW ELECTRIC HEAT       1       45       2       25       NEW HEAT PUMP       38       38         39       39       0       000.005       1       45       2       25       000.005       40       40	37     37     38       39     NL PANEL     3     70     3     40     RETURN AIR FAN     38       41     41     42	39     1     20     2     60     WH-1       41     1     1     1     SPACE     4						
41     1     1     SPACE     42       TOTAL KVA = 2.4       LINE AMP. = 6.7       DEMAND AMP. = 17.2	TOTAL KVA = 1.1 $LINE AMP. = 2.9$ $DEMAND AMP. = 0.0$	TOTAL KVA = 0.0 LINE AMP. = 0.0 DEMAND AMP. = 13.9 PANELBOARD SCHEDULE LP3						

	PANELBOARD SCHEDULE C														
	<b>PANEI</b> VOLTA TYPE:	L: C AGE: 12 225A N	0/208V- 1.L.O. C	3PH-4W UTLER HAMMER CHB							LOCATION: WAITING 102 MOUNTING: FLUSH				
C.B.		KVA		LOAD	WIRE	C.	B.	C.]	В.	WIRE	LOAD		KVA		C.B.
NO.	A	В	С	DESCRIPTION	SIZE	POLE	AMP.	POLE	AMP.	SIZE	DESCRIPTION	Α	В	С	NO.
1				LIGHTS FIN. DEPT.	12	1	20	1	20	12	LIGHTS FIN. DEPT.				2
3				LIGHTS FIN. DEPT.	12	1	20	1	20	12	LIGHTS DIR.				4
5				LIGHTS DRAFTING	12	1	20	1	20	12	LIGHTS ENGINEER				6
7				LIGHTS CITY MANAGER	12	1	20	1	20	12	LIGHTS SECY. CITY MGR.				8
9				LIGHTS ROOM 141	12	1	20	1	20	12	LIGHTS BLDG. INSP.				10
11				LIGHTS TELEP. & STOR.	12	1	20	1	20	12	LIGHTS COUNTER & VAULT				<mark>12</mark>
13				RCPTS. FIN. DIR.	12	1	20	1	20	12	RCPTS. ENGINEER				14
15				RCPTS. CITY MGR.	12	1	20	1	20	12	RCPTS. SECY & MGR.				16
17				RCPTS. ENG. & RECS.	12	1	20	1	20	10	RCPTS. ROOM 141				18
19				RCPTS. ROOM 141 & SECY.	12	1	20	1	20	12	RCPTS. BLDG INSP.				20
21				RCPTS. ROOM 147 STOR.	12	1	20	1	20	12	RCPTS ROOM 144 & 145				22
23				RCPTS COAT & COURT	12	1	20	1	20	12	RECEPTIONIST RCPTS.				24
25				COPY ROOM	12	1	20	1	20	12	CLERK OFF. CREDIT CARD				26
27				PAY PHONE	12	1	20	1	20	12	RECEPTIONIST RCPTS.				28
29				COURT COMPUTER	12	1	20	1	20	LOCK	RECEPTIONIST RCPTS.				30
31				TIME CLOCK	12	1	20	1	20	12	WORK ROOM RCPTS.				32
33				VENDING MACHINE	12	1	20	1	20	12	RECEPTIONIST RCPTS.				34
35				?		1	20								36
37				?		1	20	3	20	OFF	AV TRANS. IN COUNCIL CHAMBERS				38
39				?		1	20								40
41				?		1	20	1			SPACE				42
I	TC LII DEMAN	DTAL K NE AM ND AM	VA = (P. = (P. =	0.0 0.0 13.9											

				PA	ANEL	BO	ARD	SC SC	HEI	DUL	ED				
	PANE VOLTA TYPE:	L: D AGE: 120 225A M	0/208V- 1.L.O. (	3PH-4W CUTLER HAMMER CHB							LOCATION: WAITING 102 MOUNTING: SURFACE				
C.B.		KVA		LOAD	WIRE	C.	B.	C.	B.	WIRE	LOAD		KVA		C.B.
NO.	A	В	С	DESCRIPTION	SIZE	POLE	AMP.	POLE	AMP.	SIZE	DESCRIPTION	A	В	C	NO.
1				LIGHTS RESTROOM		1	20	1	20		LIGHTS CONFERENCE				2
3				LIGHTS CORR. & ROOM 153		1	20	1	20		LIGHTS ATTY. & MAYOR				4
5				LIGHTS COUNCIL CLERK		1	20	1	20						6
7				RCPTS. RESTROOM & CONF.		1	20	1	20		RCPTS. ATTORNEY				8
9				RCPTS. MAYOR		1	20	1	20		RCPTS. COUNCIL CLERK				10
11				RCPTS. GARAGE & ROOM 153		1	20	1	20		LIGHTS CONFERENCE				12
13				WATER COOLER		1	20	1	20						14
15			[	LIGHTS ENTRY CORR.		1		1	20						16
17				LIGHTS COAT ROOM		1	20	1	20		CORR. 159 HEATER				18
19			[	SPARE		1		1	20	[	OFFICE RCPT. IN OLD GARAGE				20
21				EXH. FAN ROOF		1	20	1	20		SPARE				22
23						1	20	1			SPACE				24
25						2	20	1	20		220V HEATER CITY MGR.				26
27				m		2	20	1	20						28
29				CAMERA REAR CITY HALL		1	20	2	20						30
31						2	20	Z	20						32
33						2	30	1			SPACE				34
35				SPACE		1		1			SPACE				36
37				SPACE		1		1			SPACE				38
39				SPACE		1		1			SPACE				40
41				SPACE		1		1			SPACE				42
	T( LI	DTAL K	VA = IP. =	0.0 0.0											

DEMAND AMP. = 0.0

 				] [					PAN	ELE	BOA	RD	SCH	EDI	JLE	LP1				
						<b>PANEI</b> VOLT <i>A</i> TYPE:	L <b>: LP1</b> AGE: 120 225A N	0/208V- 1.L.O. S	3PH-4W IQUARE-D NQOD							LOCATION: POLICE BASEMENT ELECTRI MOUNTING: SURFACE	C ROOM	1		
	KVA		CB		CB		KVA		LOAD	WIRE	С	B	C	B	WIRE	LOAD	1	KVA		CF
A	B	C	NO.		NO.	A	B	С	DESCRIPTION	SIZE	POLE	AMP.	POLE	AMP.	SIZE	DESCRIPTION	A	B	С	NC
 			2101	-	1						1	20								2
			2	-	3						1	20	3	80						4
 			6		5					-	1	20	Ŭ			FLEVATOR				6
			8	-	7				ELEVITION & RCPT IN PIT		1	20	1	20		GRINDER PUMP CONTROL POWER	-			8
 			10	-	9				CHRISTMAS LIGHTS		1	20	1	20		ROOM 005 RCPTS				10
 	ļ		12		11				CHRISTMAS LIGHTS	-	1	20	1	20		MEN'S LOCKER ROOM RCPTS	-			12
			14		13				CHRISTMAS LIGHTS	-	1	20	1	20		WOMEN'S LOCKER ROOM RCPTS				14
			16	••••	15				CHRISTMAS LIGHTS	-	1	20	1	20		ROOM 021 016 RCPTS				16
 			18	-	17				CHRISTMAS LIGHTS		1	20	1	20		ROOM 017 019 RCPTS				18
 			20		19				CHRISTMAS LIGHTS		1	20	1			SPARE				20
 			22		21						-									22
			24	-	23				AIR HANDLER PROPERTY ROOM		2	15	2	20		UH-1				24
 	l	1	26		25						2		1			WATER CIRCULATING PUMP				26
			28	-	27				PROPERTY ROOM AC		2	30	1	20		ELEVATOR LIGHT				28
			30		29				SPACE		1		1	20		RCPT. ON BSMT. FURNACE PUMP				30
 			32		31								1	20		RECORDS OFFICE N. WALL QUAD				32
			34	-	33				AH1 3PH HEAT UNIT IN BASEMENT		3	50	1	20		RECORDS OFFICE N. WALL QUAD				34
			36		35								1			SPACE				36
 			38		37				SPARE		1	20								38
			40		39				SPACE		1		3	80		WATER HEATER				40
		l	42		41				FURNACE CONTROL CIRCUIT	İ	1	1	1							42
					D	TC LII DEMAN	DTALK NE AM JD AM	VA = (P. = P. =	0.0 0.0 13.9											
									PAN	JELE	BOA	RD	SCH	IED	ULE	LP2				
						PANEI VOLTA TYPE:	L: LP2 AGE: 120 225A N	0/208V- 1.L.O. S	3PH-4W QUARE-D NQOD							LOCATION: POLICE BASEMENT ELECTRI MOUNTING: SURFACE	C ROOM	1		
	KVA		CB		C.B.		KVA		LOAD	WIRE	C.	B.	C.1	B.	WIRE	LOAD		KVA		C.E
Δ	R	C	NO.		NO.	A	B	С	DESCRIPTION	SIZE	POLE	AMP.	POLE	AMP.	SIZE	DESCRIPTION	A	В	С	NC
 Π	<b>U</b>				1				ROOM 001 007 LIGHTS	1	1	20	1	20		SOFFIT LIGHTS	1			2
 			2		3				ROOM 006 MEN'S RESTROOM LIGHTS		1	20	1	20			-			4
 			4		5				ROOM 006 MEN'S ROOM EXH. FAN 3		1	20	1	20						6
			6	-	7				ROOM 005 LIGHTS	-	1	20	1	20		ROOM 125 RCPTS				8
 			8		9				ROOM 010.013 LIGHTS	-	1	20	1	20		ROOM 127 RCPTS		h		10
 			10		11				LIGHTS 017.020 LIGHTS	1	1	20	1	20		ROOM 123,125 126 RCPTS				12
			12		13				ROOM 021 LIGHTS	1	1	20	1	20		ROOM 118.114 RCPTS				14
	1		14		· · ·		[								<u> </u>					

CD	1111.	ZZSA N	1.L.O. S		WIDE		D		D	WIDE	LOAD		123.7.4		
U.B.	۸	KVA D	C	DESCRIPTION	SIZE		D.		<b>Б.</b> АМД	SIZE	DESCRIPTION	Δ.	KVA D	C	_ ( _ \
NO.	A	D		DESCRIPTION	SILL	FOLE	AMF.	FOLE	AIVIF.	OILL	DESCRIPTION	A 0.000	D		
1	1.00	4 00				1	20	<u> </u>	<u> </u>	8		6.36	0.00	ļ	4
5		1.00	1 00	E. PRKG. LOT/2 POLE LGT.		1	20	3	60	8	NEW ROOF TOP UNIT AH-B		6.36	6.26	4
ט 7	1 00		1.00			1	20			8				0.30	
/	1.00	1.00				1	20	1			SPACE				+
9		1.00	1 00			1	20	1	20					0.00	4
12	1 00		1.00			1	20	1	20			0.00		0.90	+
15	1.00	1 20		COPY		1	20	1	20			0.30	0.90		+
17		1.20		SPACE		1	20	1	20		SPACE		0.30		
19	0 90			138 RCPT		1	20					4 24			
21	0.00	0.90		135 RCPT		1	20	3	40		RTU-3 FINANCE INSIDE WALL	7.27	4 24		
23		0.00	0.90	138 RCPT		1	20	-					1.21	4 24	
25	0.90		0.00	142 RCPT		1	20	1			SPACE				
27	0.00	0.90		148 RCPT.		1	20	1	20		139 RCPT.		0.90		
29				SPACE		1		1			SPACE				
31	0.90			148 RCPT.		1	20	1	20		143 RCPT.	0.90			
33				SPACE		1		1	20		144 RCPT.		0.90		
35				SPACE	1	1		1	20		145 RCPT.			0.90	
37	1.00			N.W. POLE LIGHT		1	20	1	20		146 RCPT.	0.90			
39		0.90		138-135 RCPT. & HALL LTS.		1	20	1			SPACE				
			1 00	S.W. POLE LIGHT	1	1	20	1			SPACE		1	1	T



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				PANE	ELBO	DAR	D S	SCHE	EDU	LE	C(EM)				
	PANE VOLTA TYPE:	L: C(EN AGE: 12 400A N	<b>I)</b> 0/208V- /I.L.O. N	3PH-4W JQOD							LOCATION: POLICE BASEMENT ELECTR MOUNTING: SURFACE	IC ROOM	Л		
C.B.		KVA		LOAD	WIRE	C.	B.	C.	B.	WIRE	LOAD		KVA		C.B.
NO.	A	B	С	DESCRIPTION	SIZE	POLE	AMP.	POLE	AMP.	SIZE	DESCRIPTION	A	В	С	NO.
1 3 5				SUB PANEL MECH. ROOM		3	100				-				2 4 6
7				PANEL RCPTS.	1	1	20	3	150		AHU-1				8
9				PANEL RCPTS.		1	20				1				10
11				SPARE		1	20								12
13				EXH. FAN P.D.		1	20								14
15				BASEMENT LIGHTS/EXITS		1	20	3	40		ROOF P.D. RTU-4				16
17				POLICE EGRESS & EXIT SIGNS		1	20								18
19 21				SEWAGE EJECTOR 1		2	20	3	20		CU-1				20 22
23				FURNACE CONTROLS	1	1	20								24
25				HW CIRCULATING PUMP		1	20								26
27							20	3	70		CTU-5				28
29				GENERATOR PANEL E DISPATCH	3	100	20								30
31							20	2	20		SEWAGE FIECTOR 2				32
33							20	2	20						34
35				GENERATOR PANEL F COURTROOM	3	100	20	3	20		DUCT DETECTORS ZONES 1&2 P.D.				36
37							20	1			SPACE				38
39		1.54		HEAT PUMP #AC-5	10	2	35	1			SPACE				40
41			1.54		10	-		1			SPACE			L	42
1	T LI DEMAN	DTALK NE AM ND AM	XVA = IP. = IP. =	3.1 8.6 18.2				REPL	ACE 2-	12 WIT	TH 90A-3P BREAKER (PROVIDE FILLER	PLATE	S AS F	EQ'D.	)

	PANELBOARD SCHEDULE GEN-D														
	PANEI VOLTA TYPE:	L: GEN- AGE: 120 225A N	D )/208V- 1.L.O. S	3PH-4W SQUARE-D NQOD							LOCATION: ADMINISTRATION OFFICE MOUNTING FLUSH				
C.B.		KVA		LOAD	WIRE	C.	B.	C.	B.	WIRE	LOAD		KVA		C.E
NO.	A	В	С	DESCRIPTION	SIZE	POLE	AMP.	POLE	POLE AMP.		DESCRIPTION	A	В	С	NC
1	0.90			RM. 134,136 FINANCE RCPT.		1	20					3.60			16
2		0.90		RM. 131,129 FINANCE RCPT.		1	20	3	40		RTU-1 COMM. DEV. FRONT		3.60		17
3			0.90	RM. 130,132 FINANCE RCPT.		1	20							3.60	18
4	1.20			RM. 148 HEAT CIRCUIT/MAP COPIER		1	20					3.60			19
5		0.90		RM. 137,139 FINANCE RCPT.		1	20	3	40		RTU-2 FINANCE FRONT		3.60		20
6			0.90	RM. 143 LOBBY,COMM. FD. RCPT.		1	20							3.60	21
7				RM. 139 FINANCE FRONT DESK.		1	20	2	50	8		3.08			22
8				SPARE		2	20		50	8			3.08		23
9						2	20	1	20		KIP 6000/SCANNER PLOTTER			1.00	24
10	0.90			R. 147 ENGINEERS OFFICE RCPT.		1	20	1	20		COMPUTER RM. HIGH OUTLETS	0.90			25
11		1.00		RM. 129,131 FINANCE LIGHTS		1	20								
		1.00		RM. 144,147 LIGHTS		1	20								
12			1.00	RM. 132,139 LIGHTS		1	20						3.00		26
12			1.00	LIGHTING		1	20	3	100		COMPUTER RM. OUTLETS			3.00	27
13	0.90			COMPUTER RCPT.		1	20					4.80			28
14		0.10		DUCT DETECTORS		1	20	2	50	8			3.08		29
15			0.90	SERVER ROOM RCPTS.		1	20	2	50	8	AC UNITO AC-2 & AC-4			3.08	30
]	TOTAL KVA = 59.1         LINE AMP. = 164.3         DEMAND AMP. = 148.7         NOTE: REPLACE CIRCUIT BREAKERS 22,23 AND 29,30 WITH NEW HACR         BREAKER SIZE INDICATED														

				PANE	LBO	ARE	) SC	HEI	DUL	E E-	-4(LP-4)				
	PANEI VOLTA TYPE:	L: E-4(L AGE: 12 100A N	. <b>P-4)</b> 0/208V- 1.C.B. S	3PH-4W SQUARE-D NQOB							LOCATION: MECH. ROOM MOUNTING: SURFACE				
C.B.		KVA		LOAD	WIRE	C.	B.	C.I	B.	WIRE	LOAD		KVA		C.B.
NO.	A	В	С	DESCRIPTION	SIZE	POLE	AMP.	POLE	AMP.	SIZE	DESCRIPTION	A	В	С	NO.
1				LIGHTS MECH. ROOM		1	20	1	20		ADMIN, BLDG, EAST EXIT LIGHTS	1			2
3				TEMP. CONTROL		1	20	1	20		COMP. RCPTS. CLERK OF COURTS				4
5				BOILER 1 CONTROL		1	20	1	20		COMP. RCPTS. CLERK OF COURTS				6
7 9 11				AIR COMPRESSOR		3	20	3	40		EMERGENCY LIGHTING PANEL E-5				8 10 12
13						1	20		20						14
15 17				TEMP. CONTROL		1	20	3	30						16
19						2	30	2	20			1			20
21						1	20	Z	20		*				22
23				CLERK OF COURTS LIGHTING		1	20	1	20						24
25															26
27				AIR COMPRESSOR		3	100	3	100		MAIN BREAKER				28
29														Ĺ	30
Ι	29       30         TOTAL KVA = 0.0       REPLACE 14,16,18 WITH 20A-3P BREAKER         DEMAND AMP. = 0.0       REPLACE 14,16,18 WITH 20A-3P BREAKER														

	PANELBOARD SCHEDULE E-5															
PANEL: E-5 (FED FROM E-4)							LOCATION: MECH. ROOM									
	VOLTAGE: 120/208V-3PH-4W MOUNTING: SURFACE TYPE: 125A M.L.O. CHB															
C.B.		KVA LOAD		LOAD	WIRE	RE C.B.		C.B.		WIRE	LOAD		KVA		C.B.	
NO.	Α	В	C	DESCRIPTION	SIZE	POLE	AMP.	POLE	AMP.	SIZE	DESCRIPTION	A	B	С	NO.	
1				FRONT ENTR. CITY MGR. SECRETARY		1	20	1	20		CORR. 113,12,159 & COUNCIL COURT				2	
3				PAY TELEPHONE		1	20	1	20		OVERHEAD GARAGE DOOR				4	
5				BASEMENT EXIT & STAIR LIGHTS		1	20	1	20		OVERHEAD DOOR				6	
7				RCPTS. RADIO ROOM		1	20	1	20		PHONE RCPTS. RADIO ROOM				8	
9				RCPTS. DISPATCH ROOM		1	20	1	20		RCPTS. RADIO ROOM				10	
11				DOOR LOCKS & TELE. ROOM RCPTS.		1	20	1	20		LIGHTS DISP. ROOM				12	
Т	TOTAL KVA = 0.0 $LINE AMP. = 0.0$															

				PANEL	BO	ARD	SC	HEL	DUL	E E-	-4(LP-4)				
	<b>PANEI</b> VOLT <i>A</i> TYPE:	L: <b>E(EM</b> ) AGE: 120 100A M	) )/208V- IL.O. S	3PH-4W QUARE-D QOC24US							LOCATION: DISPATCH CLOSET MOUNTING: SURFACE				
C.B.		KVA		LOAD	WIRE	C.I	B.	C.I	В.	WIRE	LOAD		KVA		C.B
NO.	A	B	С	DESCRIPTION	SIZE	POLE	AMP.	POLE	AMP.	SIZE	DESCRIPTION	A	B	С	NO
1						1	20	1	15						2
3						1	20	1	20						4
5				I.M.S. SECURITY PANEL		1	20	1	20						6
7					1	1	20	1	20						8
9						1	20	1	20						10
11						1	20	2	20						12
13				UPS		1	20	2	20						14
15				TV's CAMERAS		1	20	1	20						16
17						1	20	1	20	1					18
19						1	20	2	20						20
21				SPACE		1		2	20		WATCHGUARD				22
23				SPACE		1		1			SPACE				24
I	TC LII DEMAN	DTAL K NE AM ND AM	VA = P. = P. =	0.0 0.0 0.0					-						

8/29/2024

# PANELBOARD SCHEDULE F(EM)

	PANEL: F(EM)								LOCATION: AUDIO CLOSET 143						
	VOLTA	GE: 12	0/208V-	3PH-4W							MOUNTING: SURFACE				
	TYPE:	100A N	1.C.B. S	QUARE-D NQOB											
B.	[	KVA LOAD WIRE C.B. WIRE LOAD													
0.	A	B	С	DESCRIPTION	SIZE	POLE	AMP.	POLE	AMP.	SIZE	DESCRIPTION				
1				A.V. ROOM EQUIPMENT		1	20	1	20		A.V. ROOM RCPTS. & LIGHTS				
3				A.V. ROOM EQUIPMENT		1	20	1	20		BACK WALL CAMERAS				
5				A.V. ROOM EQUIPMENT		1	20	1	20		FRONT WALL CAMERAS				
7				DIAS AREA RCPTS.		1	20	1	20		NETWORK TV'S IN CLOUD				
9				DIAS AREA RCPTS.		1	20	1	20		NETWORK TV'S IN CLOUD				
1				TABLE RCPTS.		1	20	1	20		DIAS AREA RCPTS.				
3				TABLE RCPTS.		1	20	1	20		DIAS AREA RCPTS.				
5				TABLE RCPTS.		1	20	1	20		DIAS AREA RCPTS.				
7				DIAS AREA RCPTS.		1	20	1	20		SOUTH WALL DOUBLE RCPT.				
9				SPACE		1		1			SPACE				
1				SPACE		1		1			SPACE				
3				SPACE		1		1			SPACE				
5															
7				MAIN BREAKER		3	100								
9															
	TC	DTALK	VA =	0.0											
	LI	NE AM	P. =	0.0											
]	DEMAN	JD AM	P. =	0.0											

LIGHTING FIXTURE SCHEDULE				
Type: 2x2 LED BACKLIT PANEL (BUILDING STANDARD) Catalog: RAB #EZPAN2X2-40N/D10AColor: WHITE (Dimensions: 23.74" x 23.74" x 1.63") Lamping: 4,919 LUMENS; 4,000K (40 WATTS MAX.) Mounting Height: MOUNT IN CEILING GRID		Type: 6" DIAMETER DOWNLIGHT Catalog: LITHONIA #LDN6 AL03 40K L06 AR LSS TRW 120VNColor: ANODIZED; WHITE TRIM RING (Dimensions: 6" APERTURE x 6-11/16" HIGH) Lamping: 2000/2500/3000 LUMENS; 4,000K (38 WATTS) Mounting Height: MOUNT IN CEILING		
Type: 1x2 LED WRAPAROUND Catalog: RAB #GUS2 18W 4000K/D10 (2FT) B Color: WHITE (Dimensions: 24-3/16" x 9-3/4" x 2-15/16") Lamping: 2,847 LUMENS; 4,000K (18 WATTS) Mounting Height: SURFACE MOUNTED		Type: PENDANTS Catalog: WILMOTTE & INDUSTRIES #AK00108P1Color: WHITE Lamping: 5,395 LUMENS; 3,000K (59.4 WATTS) Mounting Height: 9'-6" FLOOR TO BOTTOM		
C Type: 2x4 LED BACKLIT PANEL (BUILDING STANDARD) Catalog: RAB #EZPAN2X4-40N/D10 C Color: WHITE (Dimensions: 23.74" x 47.76" x 1.63") Lamping: LUMENS; 4,706 4,000K (40 WATTS) Mounting Height: MOUNT IN CEILING GRID		Type: PENDANTS Catalog: WILMOTTE & INDUSTRIES #AK00508P2Color: WHITE Lamping: 8,356 LUMENS; 3,000K (86.3 WATTS) Mounting Height: 9'-6" FLOOR TO BOTTOM		
Type: 1x4 LED WRAPAROUND Catalog: RAB #GUS4 36W 4000K/D10 (4FT) D Color: WHITE (Dimensions: 48-3/16" x 9-3/4" x 2-15/16") Lamping: 4,672 LUMENS; 4,000K (36 WATTS) Mounting Height: SURFACE MOUNTED		QType: COLOR CHANGING LED CHANNEL (101-FEET 17'+67'+17') (24VDC) Catalog: OMNI LIGHT #NEO3 RGB41 HO 17'+67'+17' Catalog: OCH-RIGID-N3DY FOR STRAIGHT RUNS AND OCH-FLEXIBLE N3DY CHANNEL FOR CORNERS Decoder: HUE-DMX-DECODER; 24VDC Driver: APO-60-E-24 (RATED POWER 3x96W) Color: ALUMINUM CHANNEL		
Type: EXISTING DOWNLIGHT TO BE REPLACED Existing Catalog No.: OMEGA #OM10-2-H-32PLT WITH TWO (2) F32TBX/SPX41/4P LAMPS Color: BARK BRONZE		Lamping: 145 LUMENS/FOOT; 4,000K (5.5 WATTS/FOOT) Mounting Height: MOUNT IN PROVIDED REVEAL (FIELD MEASURE TO VERIFY LENGTH)		
F Lamping: 2,850 LUMENS 4,100K (39 WATTS PER LAMP); (TOTAL 5,700 LUMENS) Mounting Height: 12'-8" TO TOP OF RIM, 11'-9" BOTTOM OF FIXTURE <b>Replace fixture with:</b> Catalog: LITHONIA #LBR10 AL03 40K AR TRW LSS MWD 120 UGZ Lamping: 3,558 LUMENS; 4,100K (38 WATTS)		Type: 6" RECESSED SQUARE DOWNLIGHT Catalog: LITHONIA #LBR6SQ AL03 40K AR TRW LSS WD 120 UGZ S Color: CLEAR WITH WHITE TRIM RING (Dimensions: 7-1/2" SQ 4-3/4"H) Lamping: 2000/2500/3000 LUMENS; 4,000K (38 WATTS) Mounting Height: MOUNT IN CEILING		
Type: LED BOLLARD WITH LUMINOUS ACCENT OPTION Catalog: KIM #PA7S PT CL 3 12L-020-4K7 42A-ROP LGT 120 EM LR SF OPTIONS Color: LIGHT GREY MATTE TEXTURED Lamping: 2,000 LUMENS; 4,000K (22 WATTS) Mounting Height: SEE CONCRETE BASE DETAIL 1/E2.6		Type: COVE LIGHTING Catalog: LUMENWERX #ALC APO LED 80 1200 40 4' 120 D1 1 COVH W FU Color: WHITE (Dimensions: 3-7/8"W 1-13/16"H 48"L) Lamping: 4800 LUMENS; 4,000K (39 WATTS) Mounting Height: MOUNT IN CEILING SYSTEM COVE	N°.0:	
Type: EXISTING PENDANT Existing Catalog No.: VISA #CP3182-6F39(120V)-PB WITH FOUR (8) #F39BX/SPX41/RS LAMPS Color: BARK BRONZE Lamping: 2,850 LUMENS 4,100K (39 WATTS PER LAMP); (TOTAL 22,800 LUMENS) Mounting Height: 12'-8" TOP RIM 11'-9" BOTTOM		Type: SOFFIT LIGHTING LED RETROFIT Catalog: LITHONIA #LDN6RV 40/25 LR 6 AR LSS 120 GZ10 SFUColor: ANODIZED; WHITE TRIM RING (Dimensions: 6" APERTURE x 8-1/4" HIGH) Lamping: 2500 LUMENS; 4,000K (30 WATTS) Mounting Height: MOUNT IN EXISTING CEILING OPENING		
FOUR LIGHT EFFICIENT DESIGN TYPE C PLL/BIAX 2G11 BASE LED RETROFIT KITS Catalog: RP-PLL-5.0K-2L-840-10V Lamping: 2500 LUMENS; 4,000K (25 WATTS) PER LAMP Note: MOCK UP ONE FIXTURE, WITH NEW LAMPING SYSTEM, FOR OWNER/ENGINEER TO REVIEW PRIOR TO RETROFITTING ALL FIXTURES.		Type: 1x2 SURFACE MOUNT CORRECTIONAL Catalog: KENALL #SSA 2 1 25L40K DCC DV 19 1 FSVColor: WHITE (Dimensions: 3.5H x 13W x 25.5"L) Lamping: 2781 LUMENS; 4,000K (28 WATTS) Mounting Height: SURFACE MOUNT IN NEW GYP. BD. CEILING		
Type: PATHWAY LED LIGHT Catalog: SISTEMALUX #S6255N-JB-UNV-14 J Color: ALUMINUM GRAY (10-5/8"H 10-5/8"W 1-5/8"D) Lamping: 801 LUMENS; 4,000K (18.3 WATTS) Mounting Height: MATCH EXISTING		Type: 1x4 SURFACE MOUNT CORRECTIONAL Catalog: KENALL #SSA 4 1 45L40K DCC DV 19 1 FSWColor: WHITE (Dimensions: 3.5H x 13W x 49.5"L) Lamping: 5106 LUMENS; 4,000K (46 WATTS) Mounting Height: SURFACE MOUNT IN NEW GYP. BD. CEILING		
Type: 6" DIAMETER DOWNLIGHT Catalog: LITHONIA #LDN6 AL03 40K L06 AR LSS TRW MVOLT K Color: ANODIZED; WHITE TRIM RING (Dimensions: 6" APERTURE x 6-7/16" HIGH) Lamping: 2000/2500/3000 LUMENS; 4,000K (25 WATTS) Mounting Height: MOUNT IN CEILING		Type: UNIVERSAL AC LED EXIT SIGN Catalog: COMPASS #CARGEXColor: WHITE (Dimensions: 11.6" x 8.2" x 2") Lamping: (2.8 WATTS) Mounting Height: 90"A.F.F. TO CENTERLINE OR CEILING MOUNTING	<exit></exit>	
Type: 4" DIAMETER WALLWASH DOWNLIGHT Catalog: LITHONIA #LDN4 AL02 40K LW4 AR TRW LSS WD 120V UGZ1 L Color: ANODIZED; WHITE TRIM RING (Dimensions: 4-5/16" APERTURE x 3-13/16" HIGH) Lamping: 1000/1500/2000 LUMENS; 4,000K (25 WATTS) Mounting Height: MOUNT IN CEILING				
M Type: COVE LIGHTING Catalog: LUMENWERX #ALC APO LED 80 750 40 (LENGTH VARIES) 120 D1 1 COVH W FU Catalog: FIELD VERIFY FIXTURE LENGTHS TO PROVIDE MINIMUM GAPS Color: WHITE (Dimensions: 3-7/8"W 1-13/16"H 48"L) Lamping: 3000 LUMENS; 4,000K (25 WATTS) Mounting Height: MOUNT IN CEILING SYSTEM COVE	N°. 0:			



### PANELBOARD SCHEDULE X-1 PANEL: X-1 LOCATION: SERVER ROOM VOLTAGE: 120/208V-1PH-3W MOUNTING: FLUSH TYPE: 100A M.L.O. SQUARE-D QOC24UF KVAC.B.ABCNO. WIRE C.B. C.B. WIRE LOAD C.B. KVA LOAD SIZE POLE AMP. POLE AMP. SIZE NO. A B DESCRIPTION DESCRIPTION 1 SERVER ROOM RCPTS. 0.90 1 20 1 20 1 20 1 20 1 20 1 30 1 30 1 30 1 30 1 30 1 30 0.90 SERVER ROOM RCPTS. 0.90 SERVER ROOM RCPTS. 0.90 SERVER ROOM RCPTS. 0 SERVER ROOM RCPTS. 1.20 UPS #1 -----SURGE PROTECTOR 20 0.90 SERVER ROOM RCPTS. 0.90 20 SERVER ROOM RCPTS. 1.20 UPS #2 UPS #3 SPARE SPARE SPARE 20 0.90 1.20 1 20 SPARE SPARE SPACE SPACE SPACE 20 20 SPACE 1 1 1 1 1 1 1 1 SPACE SPACE TOTAL KVA = 10.8LINE AMP. = 30.0 DEMAND AMP. = 31.0



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