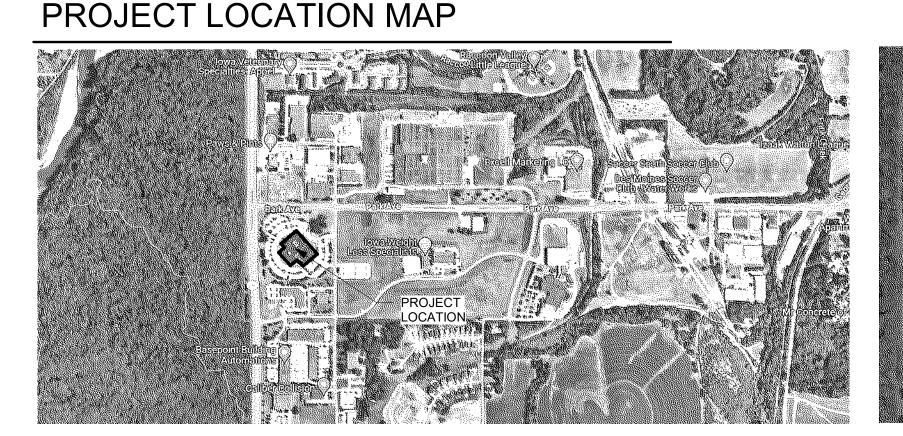
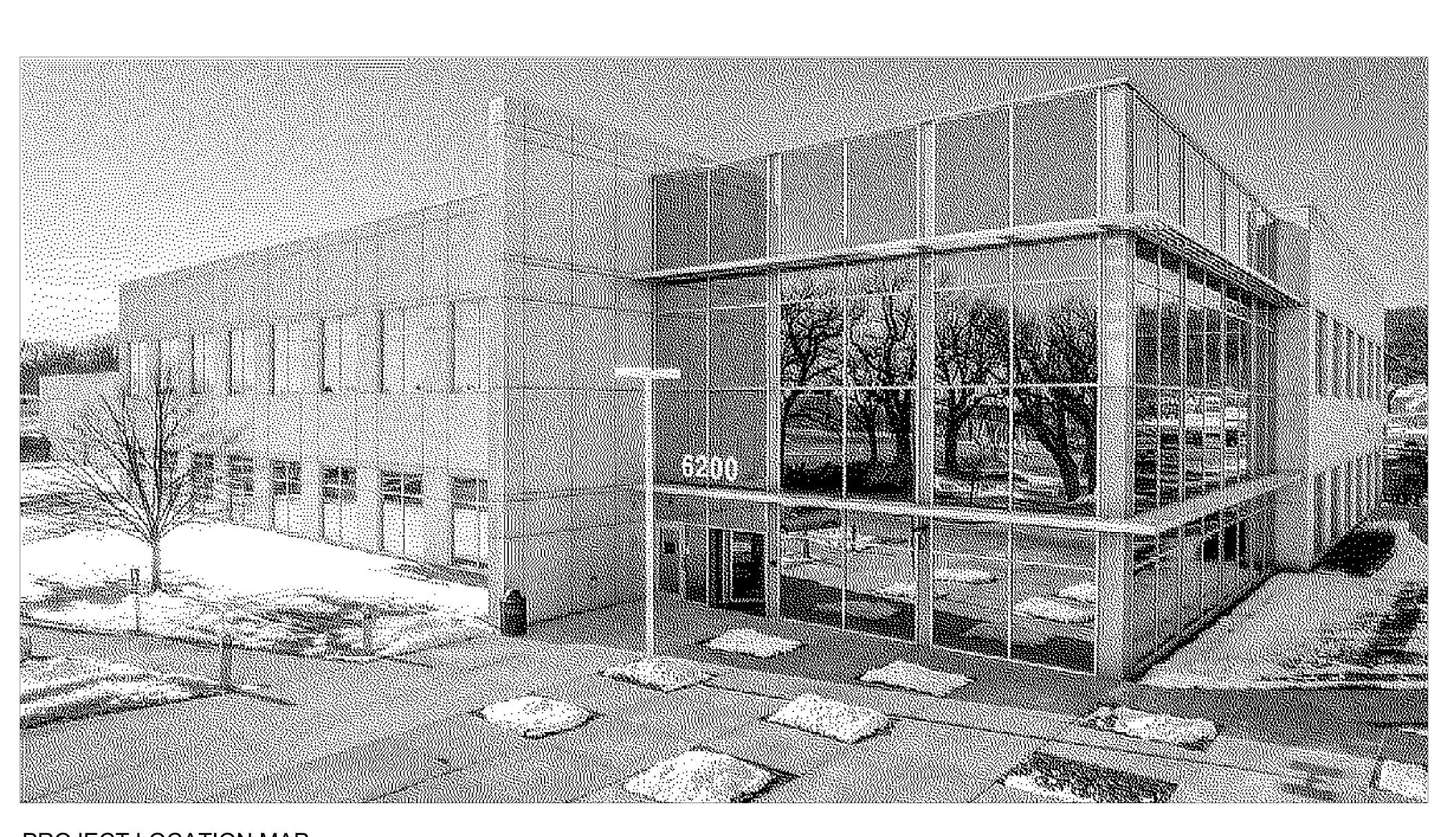
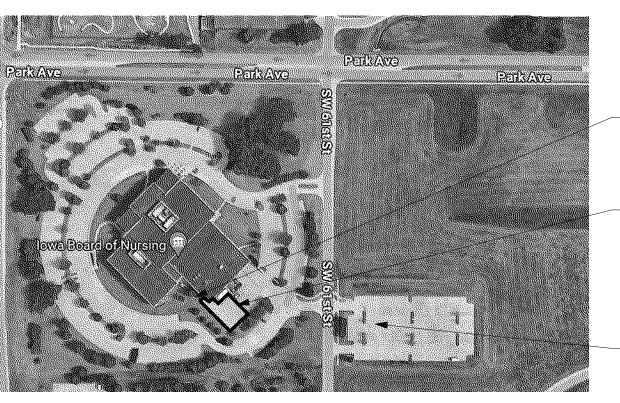


**OPN ARCHITECTS 100 COURT AVENUE** DES MOINES, IA 50309

# **STATE OF IOWA - DEPARTMENT OF ADMINISTRATIVE SERVICES -**9411.00 - DAS 6200 PARK ALJ - WORKMAN'S COMP RENOVATION







CONTRACTOR STAGING AREA AND TEMPORARY FACILITIES COORDINATE FINAL LAYOUT WITH CONSTRUCTION MANAGER AND OWNER. PROVIDE TEMPORARY FENCING AS REQUIRED.

COORDINATE CONTRACTOR PARKING WITH CONSTRUCTION MANAGER AND OWNER.

EXIST. GREASE INTERCEPTOR LOCATION

6200 PARK AVE, DES MOINES, IA 50321



100 Court Ave. Suite 100, Des Moines, IA 50309 P: 515-309-0722 F: 515-309-0725 www.opnarchitects.com

CONSTRUCTION MANAGER

**MECHANICAL ENGINEER/ BUILDER** 

KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50265 STRUCTURAL ENGINEER

RAKER RHODES ENGINEERING 4717 GRAND AVENUE DES MOINES, IA 50312

DCI GROUP 200 SE 6TH STREET, SUITE 200 DES MOINES, IA 50309

# SHEET INDEX

## **GENERAL DRAWINGS**

SHEET NUMBER	SHEET NAME
G001	LIFE SAFETY AND CODE SUM

#### **CIVIL DRAWINGS**

SHEET	
NUMBER	SHEET NAME
C01	CIVIL COVER SHEET
C02	DEMOLITION PLAN
C03	GRADING PLAN

#### STRUCTURAL DRAWINGS

SHEET NUMBER SHEET NAME S100 STRUCTURAL NOTES FOUNDATION AND FRAMING PLANS S101

STRUCTURAL DETAILS

#### **ARCHITECTURAL DRAWINGS**

S102

SHEET NUMBER SHEET NAME

A000	GENERAL DRAWING INFORMATION
A001	DOOR AND FINISH INFORMATION
AD101	DEMO FLOOR PLANS
AD102	DEMO REFLECTED CEILING PLANS
AD103	DEMO PHOTOS
AD104	DEMO PHOTOS
A101	FLOOR PLAN
A102	REFLECTED CEILING PLANS
A201	EXTERIOR ELEVATIONS & WALL SECTIONS
A401	INTERIOR ELEVATIONS
A800	FURNITURE PLAN (REFERENCE ONLY)

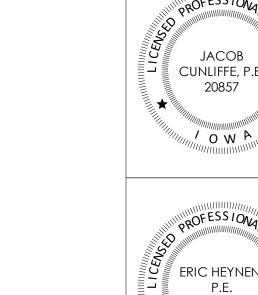
**MECHANICAL, PLUMBING, FIRE PROTECTION DRAWINGS** 

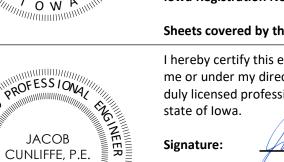
SHEET NUMBER	SHEET NAME
M000	MECHANICAL GENERAL NOTES & SYMBOLS
MD101	MECHANICAL DEMOLITION
M101	MECHANICAL HVAC PLAN
M301	MECHANICAL DETAILS
M501	MECHANICAL SCHEDULES
PD100	UNDER FLOOR PLUMBING DEMOLITION
PD101	PLUMBING DEMOLITION
P100	PLUMBING FOUNDATION PLAN
P101	PLUMBING PLAN
P301	PLUMBING DETAILS
P501	PLUMBING SCHEDULES
F101	FIRE PROTECTION PLAN

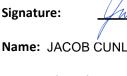
#### **ELECTRICAL DRAWINGS**

#### SHEET NUMBER SHEET NAME

NUMBER	SHEET NAME
E000 ED101 ED102 E101 E201 E301 E302	ELECTRICAL GENERAL NOTES & SYMBOL ELECTRICAL POWER & SYSTEMS DEMO ELECTRICAL LIGHTING DEMO ELECTRICAL POWER & SYSTEMS ELECTRICAL LIGHTING ELECTRICAL SCHEDULES ELECTRICAL PANEL SCHEDULES







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duly licensed profess

ELECTRICAL ENGINEER/BUILDER

KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50265 **CIVIL ENGINEER** 

CIVIL ENGINEERING CONSULTANTS, INC 2400 86TH STREET. UNIT 12 DES MOINES, IA 50322

All questions regarding and specifications shou to:

Nate Stieler, AIA Project Manager nstieler@opnarchitects.com (515) 309-6882

Terry Gebard, AIA 05219

> Anthony J. Samuelson

> > P.E. 21984

P24706

Paul J.D. Clausen 23772

by me or under my dire a duly licensed profess state of lowa. Name: Terry Gebard

I hereby certify these

lowa Registration No Sheets covered by th

I hereby certify this er me or under my direct duly licensed profession

state of lowa. Name: Anthony J. Sa

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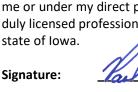
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Name: ERIC HEYNEN owa Registration No

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Name: Paul J.D. Clau

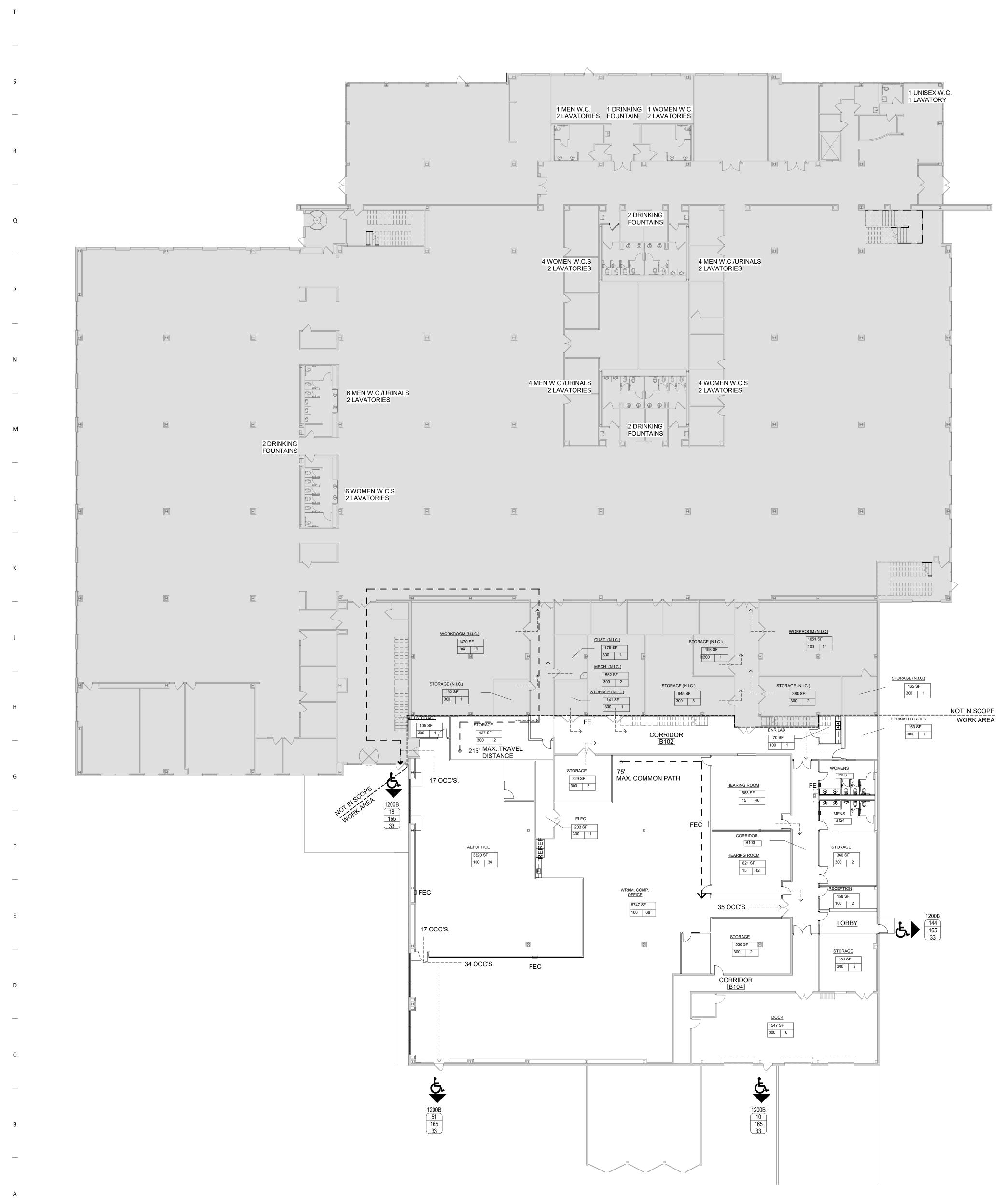
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plans and specifications were prepared rect personal supervision and that I am sional architect under the laws of the
Eny Geland
AIA
: 05219 Renewal Date: 6/30/2026
is seal: Listed As "Architectural"
ngineering document was prepared by t personal supervision and that I am a onal engineer under the laws of the
nthey A. Sumalson
muelson, P.E.
: 21984 <b>Renewal Date</b> : 12/31/2025
is seal: Listed As "Structural"
ngineering document was prepared by t personal supervision and that I am a onal engineer under the laws of the
IFFE, P.E.
: 20857 Renewal Date: 12/31/2025
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ngineering document was prepared by t personal supervision and that I am a onal engineer under the laws of the
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N, P.E.
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is seal: Listed As "Electrical"
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A1 LEVEL 1 OCCUPANCY PLAN 1/16" = 1'-0"

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																CODE PLA				I comply with the follo	wing codes:						
																● ● ■ EXIT PA	RE BARRIER		2015 Interna Iowa State N	tional Building Code, inc tional Fire Code lechical Code (2021 Inte lectrical Code (2020 Nat	rnational Mechar	nical Code and	amendments)				

ACCESSIBLE ENTRANCE

# EGRESS CAPACITY 1200B MARK 50 OCCUPANT LOAD 166 MAX. OCCUPANT LOAD 33.25 EGRESS WIDTH (INCH)

5

AREA TAG <u>AREA NAME</u> AREA NAME <u>500.00 SF</u> AREA SQUARE FEET 100 5 CALCULATED OCCUPANTS OCCUPANT LOAD FACTOR

	OPN
APPLICABLE CODE INFORMATION	ARCHITECTS 100 Court Ave., Suite 100
The project shall comply with the following codes: 2015 International Building Code, including State of Iowa amendments. 2015 International Fire Code	Des Moines, IA 50309 P: 515-309-0722 www.opnarchitects.com
lowa State Electrical Code (2021 International Mechanical Code and amendments) Iowa State Electrical Code (2020 National Electrical Code and amendments) Iowa State Plumbing Code (2021 Uniform Plumbing Code and amendments)	All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain
2012 International Energy Conservation Code 2015 International Existing Building Code Accessility - State Building Code Chapter 302 - 2010 Americans with Disabilities Act; 2015 IBC and ANSI A117.1 - 2009 Edition	the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto.
	© 2024 OPN Architects, Inc.
Building Characteristics Project description: Interior renovation of kitchen and storage space to offices, open office areas and hearing rooms; renovation of offices and mail room to	STATE OF IOWA - DEPARTMENT OF ADMINISTRATIVE SERVICES 1305 E WALNUT ST
accommodate new reception and public/employee entrance. Renovation also includes of single user toilet stalls to multi-user toilet stalls. Building Area: 119,769 SF Number of Stories: 2 (see below for detailed information)	DES MOINES, IA 50319
Fully Sprinkled:Yes - Equipped with fully automated sprinkler systemFie Alarm:Yes - Equipped with emergency voice/alarm communication system	Project 9411.00 - DAS 6200 PARK ALJ -
IC Chapter 3 - Use and Occupancy Classification Occupancy Group: B	WORKMAN'S COMP RENOVATION 6200 PARK AVE
IBC Chapter 5 - General Building Heights and Areas Occupancy Group B	DES MOINES, IA 50321 Construction Manager
Number of Stories: 2 (4 max per IBC Table 504.4) Building Area: 67,963 GSF Level 1 (Unlimited per IBC Section 507.5)	DCI GROUP 220 SE 6TH ST - SUITE 200
507 Unlimited Area Buildings 507.5 The area of a Group B, F, M or S building no more than two stories above grade plane shall not be limited where the building is equipped throughout with	DES MOINES, IA 50309 P. 515-244-5043
an automatic sprinkler system in accordance with Section 903.3.3.1.1 and is surrounded and adjoined by public ways or yards not less than 60 feet in width.	Civil Engineer
IBC Chapter 6 - Types of Construction Construction Classification: Type IIB	2400 86TH ST - UNIT 12 DES MOINES, IA 50322 P. 515-276-7084
Table 601 Fire Resistance Rating Required         Primary Structural Frame       0 HR	Structural Engineer
Bearing Walls 0 HR Nonbearing Wall and Partition (Exterior) 0 HR Nonbearing Wall and Partitions (Interior) 0 HR	RAKER RHODES ENGINEERING 4717 GRAND AVE DES MOINES, IA 50312
Floor Construction and Secondary Members 0 HR Roof Construction and Secondary Members 0 HR	P. 515-277-0275 Mechanical Engineer
Table 602 Fire Resistive Rating for Exterior Walls based on Fire Construction         Fire Separation Distance is greater than 30 FT = 0 HR	KCL ENGINEERING 300 4TH ST
IBC Chapter 9 - Fire Protection Systems         903       Automatic Sprinkler Systems         Required/Provided	WEST DES MOINES, IA 50265 P. 515-724-7938
905     Automatic Sprinkler Systems     Required/Provided       906     Portable Fire Extinguishers     Required/Provided	Electrical Engineer KCL ENGINEERING
IBC Chapter 10 - Means of Egress (at Project Work Area only) 1004 Occupant Load (See Occupant Load Calculations table for details)	300 4TH ST WEST DES MOINES, IA 50265 P. 515-724-7938
Level 1 214	
1005 Means of Egress Sizing 1005.3.1 & 1005.3.2 Means of Egress Capacity Factors	
Stairs N/A Other Elements .2"/Occupant	
Egress RequiredEgress ProvidedLevel 1 Egress Width214 Occupants x .2"/Occupant = 42.8"122"	
1006.2.1 Common Path of Egress Travel Distance	
Maximum Allowed Group B (With Sprinkler System)Maximum Allowed 100'Maximum Actual 75'	
1006.3.1 Minimum Number of Exits or Access to Exits Per Story           Number Required         Number Provided	
Level 1     2     4       1017 Exit Access Travel Distance     4	
Table 1017.2 Exit Access Travel Distance         Maximum Allowed       Maximum Actual	
Group B (With Sprinkler System) 300' 215'	
Iowa Administrative Code, Chapter 16, Division VII - Accessibility Requirements For Facilities Used by the General Public: Accessibility within the building will be maintained.	
PLUMBING FIXTURE ANALYSIS B - Business IBC 2015 Table 2902.1	
WOMEN     MEN     DR     SVC       WC     LAV     WC     LAV     UR   PNTN SINK OCCUPANT LOAD	
REQUIRED         2.68         2.05         2.68         2.05         -         1.68         1         TOTAL         168*<*(NOT INCL. 35 ALJ           PROVIDED         3         2         2         1         1         1         TOTAL         168*         *(NOT INCL. 35 ALJ           WOMEN         84         OFFICE/STORAGE         OCC'S. SERVED BY         SERVED BY         SERVED BY	
Plumbing Fixture Requirements per 2015 Uniform Plumbing Code (UPC)	
IBC 2015 Table 2902.1 Minimum Number of Required Plumbing Fixtures         Occupancy       W.C.       Lavs       DF       Other         B       M / F       1 per 25 for 50       1 per 40 for 80       1 per 100       1 Service Sink	
B M / F 1 per 25 for 50 1 per 40 for 80 1 per 100 1 Service Sink 1 per 50 after 50 1 per 80 after 80 For each urinal added in excess of the maximum required, one water closet may be deducted. The number of water	Key Plan
closets shall not be reduced to less than two-thirds (2/3) of the minimum. There shall be a minimum of one (1) drinking fountain per occupied floor in offices or public buildings.	
NOTE: Existing additional fixtures located in other areas of Level 1: 15 W.C.s (women) 15 W.C.s/Urinals's (men)	
1 W.C. (unisex) 8 Lavatories (women) 8 Lavatories (men)	
1 Lavatory (unisex) 5 Drinking Fountains 2 Service Sinks	
OCCUPANT LOAD CALCULATIONS	Revision Description Date
NAME     OCCUPANCY GROUP     O.L.F.     OCCUPANTS	
Level 1HEARING ROOM683 SFASSEMBLY1545.5HEARING ROOM621 SFASSEMBLY1541.4	
STORAGE         536 SF         STORAGE         300         1.8           STORAGE         383 SF         STORAGE         300         1.3           LOBBY         158 SF         BUSINESS         0         0	
RECEPTION         158 SF         BUSINESS         100         1.6           STORAGE         360 SF         STORAGE         300         1.2	
SPRINKLER RISER         163 SF         UTILITY         300         0.5           DNR LAB         70 SF         BUSINESS         100         0.7           STORAGE         329 SF         STORAGE         300         1.1	
STORAGE         437 SF         STORAGE         300         1.5           ALJ STORAGE         105 SF         STORAGE         300         0.4           WRKM. COMP.         6,747 SF         BUSINESS         100         67.5	
OFFICE3,320 SFBUSINESS10033.2DOCK1,547 SFSTORAGE3005.2	
ELEC.         203 SF         UTILITY         300         0.7           203.4         203.	
Total Occupants     203.4	
	OPN Project No. <b>24816000</b>
	Sheet Issue Date
	100% CONSTRUCTION     08/16/2024       DRAWING SET       Sheet Name
	LIFE SAFETY AND CODE SUMMARY
	Sheet Number
19 20 21 22 23 24 25	GUUT

PLUMBING	FIXTU	RE ANAI	LYSIS	B - Bus	iness				IBC 20	)15 Table 2902.1	
	WO WC	MEN LAV	WC	MEN LAV	UR	DR FNTN	SVC SINK	OCCUPANT LOAD			
	WC	LAV	VVC	LAV	UK	FINTIN	SINK				
REQUIRED	2.68	2.05	2.68	2.05	-	1.68	1	TOTAL MEN	168* *(NOT INCL. 35 84 OFFICE/STORA		
PROVIDED	3	2	2	2	1	1	1	WOMEN	84	OCC'S. SERVED B EXIST FIXTURES)	

NAME	AREA	OCCUPANCY GROUP	O.L.F.	OCCUPANTS
Level 1				
HEARING ROOM	683 SF	ASSEMBLY	15	45.
HEARING ROOM	621 SF	ASSEMBLY	15	41.
STORAGE	536 SF	STORAGE	300	1.
STORAGE	383 SF	STORAGE	300	1.
LOBBY	158 SF	BUSINESS	0	
RECEPTION	158 SF	BUSINESS	100	1.
STORAGE	360 SF	STORAGE	300	1.
SPRINKLER RISER	163 SF	UTILITY	300	0.
DNR LAB	70 SF	BUSINESS	100	0.
STORAGE	329 SF	STORAGE	300	1.
STORAGE	437 SF	STORAGE	300	1.
ALJ STORAGE	105 SF	STORAGE	300	0.
WRKM. COMP. OFFICE	6,747 SF	BUSINESS	100	67.
ALJ OFFICE	3,320 SF	BUSINESS	100	33.
DOCK	1,547 SF	STORAGE	300	5.
ELEC.	203 SF	UTILITY	300	0.
				203.
Total Occupants				203.

# SITE PLAN - MINOR MOD 6200 PARK AVENUE 6200 PARK AVENUE, DES MOINES, IA 50321

#### GENERAL NOTES

- I. ONE WEEK PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY: A. OPN ARCHITECTS
- B. ALJ WORKMAN'S COMP C. CIVIL ENGINEERING CONSULTANTS, INC.
- D. "ONE CALL" UTILITY LOCATE SERVICE
- E. DES MOINES WATER WORKS ALL DIMENSIONS ARE TO BACK OF CURB, OUTSIDE OF BUILDING WALL, AND TO PROPERTY LINES.
   LOCATIONS AND DIMENSIONS SHOWN ON PLANS FOR EXISTING FACILITIES ARE IN ACCORDANCE WITH AVAILABLE
- INFORMATION WITHOUT UNCOVERING AND MEASURING. ENGINEER DOES NOT GUARANTEE ACCURACY OF INFORMATION OR THAT ALL EXISTING UNDERGROUND FACILITIES ARE SHOWN, IT IS RESPONSIBILITY OF CONTRACTOR TO CONTACT ALL PUBLIC AND/OR PRIVATE UTILITIES SERVING AREA TO DETERMINE PRESENT EXTENT AND EXACT LOCATION OF FACILITIES BEFORE BEGINNING WORK.
- 4. CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT UTILITIES OR STRUCTURES AT SITE. IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO NOTIFY OWNERS OF UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. CONTRACTOR SHALL NOTIFY PROPER UTILITY IMMEDIATELY UPON BREAKING OR DAMAGE TO ANY UTILITY LINE OR APPURTENANCE, OR INTERRUPTION OF SERVICE. HE SHALL NOTIFY PROPER UTILITY INVOLVED. IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, CONTRACTOR SHALL NOTIFY ENGINEER SO CONFLICT MAY BE RESOLVED.
- 5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH URBAN STANDARD SPECIFICATIONS. 6. ALL DEBRIS SPILLED ON COUNTY R.O.W. AND ADJOINING PROPERTY SHALL BE REMOVED BY OWNER/CONTRACTOR IN
- TIMELY FASHION. 7. ALL SITEWORK, SODDING AND LANDSCAPING SHALL BE IN ACCORDANCE WITH CITY OF DES MOINES STANDARD
- SPECIFICATIONS UNLESS SPECIFIED OTHERWISE. 8. ANY AMENDMENTS OR CHANGES TO PROJECT SITE NOT MEETING WHAT IS SHOWN ON SITE PLAN NEED TO BE APPROVED
- WITH PERMIT AND DEVELOPMENT CENTER PRIOR TO INSTALLATION / CONSTRUCTION. 9. REQUIRED LANDSCAPING, BOTH EXISTING AND PROPOSED, SHALL BE MAINTAINED FOR LIFE OF CERTIFICATE OF
- OCCUPANCY. IO. ALL DISTURBED AREAS SHALL BE RESTORED BY SEEDING OR SODDING.
- II. CONTACT CITY TRAFFIC AND TRANSPORTATION (283-4973) BEFORE CONSTRUCTION BEGINS AND COORDINATE WORK AS
- NECESSARY 12. SITE SHALL BE MAINTAINED IN COMPLIANCE WITH ALL CITY CODES APPLICABLE ON DATE OF SITE PLAN APPROVAL.
- 13. ALL PLANTING BEDS SHALL INCLUDE NON-LIVING PERMEABLE MATERIALS SUCH AS MULCH, BUT NOT INCLUDING ROCK.

#### GENERAL LEGEND PROPOSED EXISTING ----- PLAT BOUNDARY ----- LOT LINE ---- SECTION LINE SANITARY/STORM MANHOLE 0 ---- LOT LINE WATER VALVE $\bowtie$ ---- CENTERLINE FIRE HYDRANT ----- EASEMENT LINE STORM SEWER SINGLE INTAKE FLARED END SECTION STORM SEWER DOUBLE INTAKE $\bigotimes$ DRAIN BASIN OR SEDIMENT RISER STORM SEWER ROUND INTAKE $\otimes$ FLARED END SECTION ST DRAIN BASIN WITH SOLID GRATE DECIDUOUS TREE MATER VALVE M FIRE HYDRANT ASSEMBLY CONIFEROUS TREE BLOW-OFF HYDRANT SHRUB SCOUR STOP MAT POWER POLE TURF REINFORCEMENT MAT ¢-× STREET LIGHT STORM SEWER WITH SIZE GUY ANCHOR ELECTRIC TRANSFORMER E GAS METER G (T)TELEPHONE RISER 926 PROPOSED CONTOUR SIGN -CATV- UNDERGROUND TELEVISION Y SILT FENCE UNDERGROUND ELECTRIC — UGE — (1234) ADDRESS UNDERGROUND GAS UNDERGROUND FIBER OPTIC RIPRAP -UGFO UNDERGROUND TELEPHONE - UGT -OVERHEAD ELECTRIC — OHM — SANITARY SEWER WITH SIZE - SAN STORM SEWER WITH SIZE WATER MAIN WITH SIZE — - M-926 EXISTING CONTOUR $\sim$ TREELINE B.S.L.

P.U.E.

M.O.E.

BUILDING SETBACK LINE PUBLIC UTILITY EASEMENT SITE PLAN APPROVED

MUNICIPAL CODE. AS AMENDED. NO CHANGES TO THIS PLAN UNLESS APPROVED IN WRITING

PLAN.

DATE

MINIMUM OPENING ELEVATION



VICINITY MAP I" = 500'



GENERAL USE

OFFICE / WAREHOUSE - MULTIPLE USER UTILITIES WATER SUPPLY: DES MOINES WATER WORKS. SANITARY SEWER: CITY OF DES MOINES. STORM SEWER: CITY OF DES MOINES.

Sheet List Table						
Sheet Number	Sheet Title					
01	COVER					
02	DEMOLITION PLAN					
03	GRADING PLAN					

	SUBMITTAL TABLE
SUBMITTAL DATE	SUBMITTAL NOTES
JULY 03, 2024	INITIAL SUBMITTAL
JULY 25, 2024	
AUGUST 01, 2024	
AUGUST 07, 2024	
AUGUST 13, 2024	

APPROVED WITH CONDITIONS

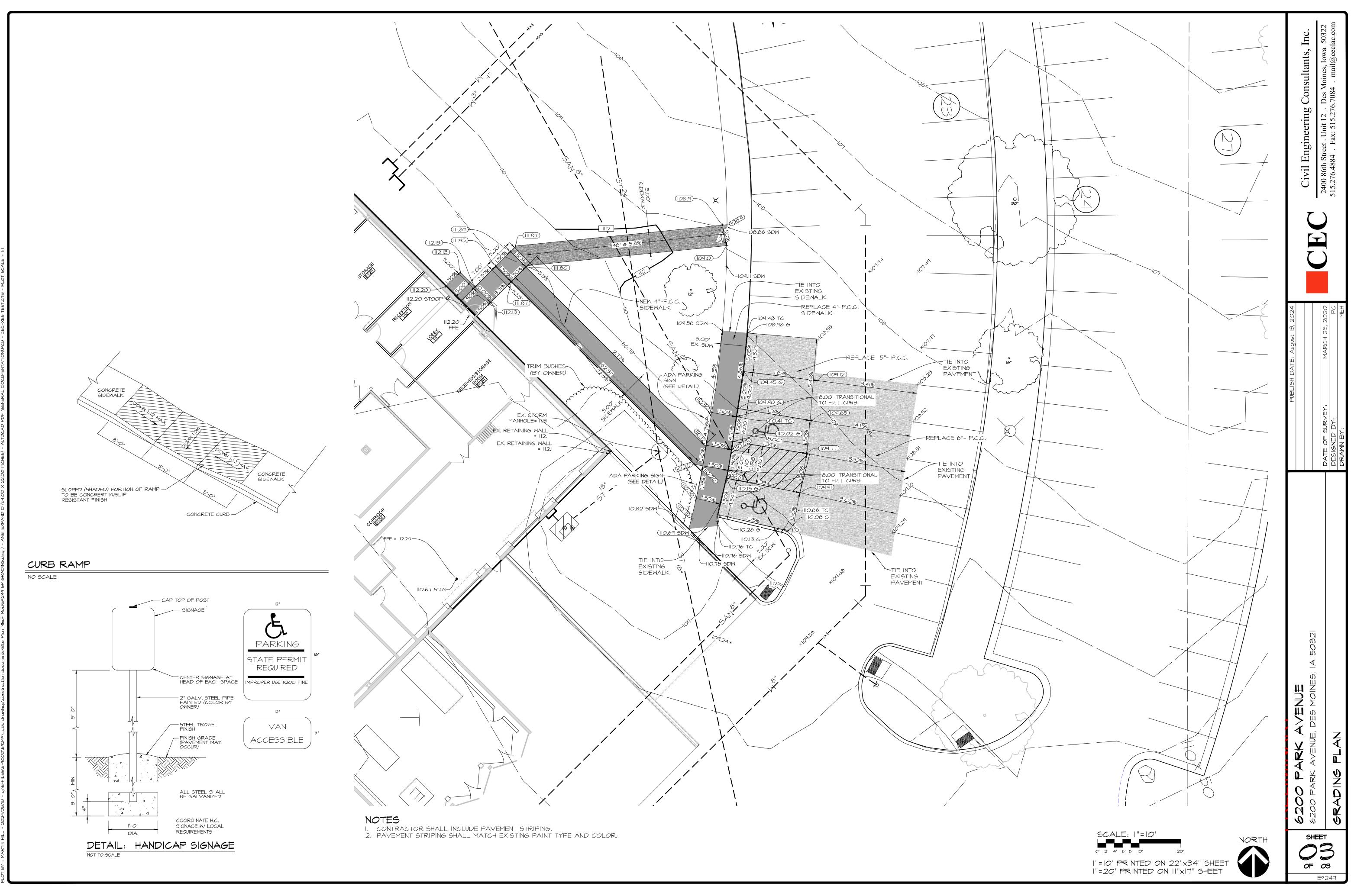
IN ACCORDANCE WITH (SECTION 82-207(C.) 2000 DES MOINES

FROM THE PLANNING DIRECTOR OR NEW AMENDED DATED

PLANNING DIRECTOR

	NUMBER OF EMPLOYEES SPECILATIVE SPACE, QUANTITY OF EMPLOYEES INTETEMINANT: DEVELOPMENT SCHEDULE STE DEMO JULY, 2024 STE DEMO JULY, 2024 STE DEMO JULY, 2024 STE DEMO JULY, 2024 STE DEMO STANSS PROJECT COMPLETE SEPTEMBER, 2024 COMMINITY-PANEL NUMBER INFORMATION TACCORDING TO FEMA FLOOD INSURANCE RATE MAPS, COMMINITY-PANEL NUMBER INFORMATION TO F DES MOINES DENCHMARK #4412 DENCHMARKS LITY OF DES MOINES BENCHMARK #4412 REAGS TABLET ON SM CONNER TRAFFIC SIGNAL BASE AT THE NE CORNER OF PARK AVENUE & SM 56TH STREET LIEVATION: (CITY OF DES MOINES DATUM) 57.328 FT CITY OF DES MOINES BENCHMARK #4416 BRASS TABLET ON NE CORNER TRAFFIC SIGNAL BASE AT 5501 PARK AVENUE (NORTH SIDE). LIEVATION: (CITY OF DES MOINES DATUM) 45.658 FT	I-IS AT THE POLK COUNTY RECORDER'S OFFICE. <b>ZONING</b> PUD - AIRPORT COMMERCE PARK WEST <b>BULK REGULATIONS</b> PUD BUILDING SETBACKS • FRONT YARD: 50 FEET • SIDE YARD: 20 FEET TOTAL, 5 FEET MINIMUM, ONE SIDE PARKING SETBACKS • FRONT YARD: 15 FEET • REAR & SIDE YARD: 5 FEET	PROFESSIONAL LAND SURVEYOR:         CIVIL ENGINEERING CONSULTANTS, INC.         PH: JEFFERY A. GADDIS, PLS         2400 86TH STREET, SUITE 12         URBANDALE, IA 50322         PH. 515-276-4884 EXT. 221         EMAIL: GADDIS@CECLAC.COM         MUNICIPALITY PLANNER:         JILLIAN SOMMER         PERMIT and DEVELOPMENT CENTER         SITE PLANNING REVIEW         PHONE:(515) 283-4581         EMAIL: JLSommer@dmgov.org         LEGAL DESCRIPTION         LOT LAIRPORT COMMERCE PARK WEST PLAT 3 RECORDED IN BOOK 8401, PAGE	PROPERTY OWNER:         AIRPORT DEVELOPMENT LC         KNAPP PROPERTIES         5000 WESTOWN PKWY STE 400         WEST DES MOINES, IA 50266-5921         PROJECT ADDRESS         6000 PARK AVENUE         DES MOINES, IOWA 50321         PROJECT MANAGER:         PAUL CLAUSEN, PE,         CIVIL ENGINEERING CONSULTANTS         2400 86TH STREET, #12         DES MOINES, IOWA 50322         PH, 515-276-4884 EXT. #217         EMAIL: CLAUSEN@CECLAC.COM	APPLICANT: STATE OF IONA BOD LINCOLN MAY AMES, IA 50010-6415
	6200 PARK AVENUE 6200 PARK AVENUE, DES MOINES, IA 50321		PUBLISH DATE: August 13, 2024		Civil Engineering Consultants, Inc.
Eq249	COVER	DESIGNED BY DESIGNED BY DRAMN BY:	VEY: MARCH 23, 2 :		2400 86th Street . Unit 12 . Des Moines, Iowa 50322 515.276.4884 . Fax: 515.276.7084 . mail@ceclac.com





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<u>GP</u> GP1	<u>GENERAL PARAME</u> STRUCTURAL DRA ARE INTENDED TO DRAWINGS. THE C	WINGS ARE A P BE USED WITH ONTRACTOR IS	ARCHITECTURA RESPONSIBLE I	AL, MECHANICA FOR COORDINA	L, AND ELECT	FRICAL	DP DP1	INTERNATION	URE IS DESIGN NAL BUILDING C	ED IN ACCORDA ODE, 2021 EDITI		THE ICC	
GP2	REQUIREMENTS FF						DP2	UNIFORM LIV TYPICAL ROO TYPICAL HAN	OF (GOVERNED	BY SNOW)		24 PSF+DRIFT 50 PLF	
GP3	DRAWINGS SHALL ELECTRICAL, AND	PLUMBING DRA	WINGS FOR ADI	DITIONAL OPEN	INGS, ELECTI	RICAL	DP3	CONCENTRA TYPICAL HAN	TED LIVE LOAD	S:		200 LB	
	COMPONENTS, FLC COORDINATE LOC/ RESPECTIVE TRAD INTERFERENCE PR RECORD.	ATION, SIZE AND DES BEFORE FAI	REINFORCEME BRICATION. REF	ENT OF ALL OPE PORT ANY DISC	ENINGS WITH REPANCIES A	ND/OR	DP4	GROUND SNO FLAT ROOF S SNOW EXPO	GN PARAMETER OW LOAD (Pg) SNOW LOAD (Pf) SURE FACTOR IMPORTANCE F	(Ce)		30 PSF 24 PSF 1.0 1.0	
GP4	THESE GENERAL N THE PROJECT SPE DETAILS ON THE S GENERAL NOTES A CONSTRUCTION SH	CIFICATIONS FO TRUCTURAL DR AND TYPICAL DE	R ADDITIONAL AWINGS SHALL TAILS. WHERE	REQUIREMENT TAKE PRECED NO DETAILS AR	S. NOTES AN ENCE OVER	D THE	DP5	SNOW LOAD SNOW SLOPI EARTHQUAK	THERMAL FACT E FACTOR (Cs) E DESIGN PARA CATEGORY	ror (Ct)		1.0 1.0 1.0	
GP5	THE BUILDING IS N SHEAR WALLS, X-B ACHIEVED FINAL D MAINTAINING STRU BUILDING DURING GRAVITY AND LATE BE DESIGNED BY, A DRAWINGS DO NO SUPPORT SYSTEM UNTIL STRUCTURA UNDER CONSIDER.	OT STRUCTURA BRACING, AND E ESIGN STRENG JCTURAL STABII DEMOLITION, EF ERAL FORCE BR AND AT THE EXI T NECESSARILY S. TEMPORARY L WORK IS COM	LLY STABLE UN XTERIOR WALL TH. CONTRACT ITY OVERALL A RECTION AND C ACING SYSTEM 'ENSE OF, THE INDICATE ANY BRACING SYST IPLETE OR CON	ITIL ALL CONNE S ARE COMPLE DR IS SOLELY R IND TO ALL POF ONSTRUCTION. S THAT MAY BE CONTRACTOR. OR ALL REQUIF EMS ARE NOT	TE AND HAVE RESPONSIBLE TIONS OF TH TEMPORAR REQUIRED STRUCTURA RED TEMPOR TO BE REMOV	E FOR IE / VILL L ARY /ED		SEISMIC IMPO Ss S1 SeiSMIC SITE Sds Sd1 SHORT-PERIO SEISMIC DES SEISMIC-FOR NO SEISMIC BAS	ORTANCE FACT E CLASS OD SITE COEFF D SITE COEFFIC SIGN CATEGORY RCE-RESISTING	ICIENT (Fa) CIENT (Fv) SYSTEM: S TO THE EXISTI S	NG LATERA	1.0 0.062g 0.052g D 0.066g 0.083g 1.6 2.4 B	
GP6	CONTRACTOR'S CO RECOGNIZE AND C STRUCTURAL ELEM	ONSIDER THE E	FFECTS OF TH	ERMAL MOVEM				SEISMIC RES SEISMIC RES RESPONSE M	PONSE COEFFI PONSE COEFFI MODIFICATION F	CIENT (Cs) N-S CIENT (Cs) E-W		N/A N/A N/A N/A	
GP7	RETAINING WALLS BE BACKFILLED UN ADEQUATE BRACIN	ITIL THE UPPER	SLABS REACH	FULL DESIGN S				REDUNDANC REDUNDANC	CY FACTOR (ρ) Ν CY FACTOR (ρ) Ε MLYSIS PROCED	I-S -W		1.0 1.0	
GP8	AS USED IN GENER TERM "CONTRACTO GENERAL CONTRA MANAGER AND THI DESIGNERS/ENGIN	OR" IS DEFINED CTOR AND THE EIR SUBCONTRA	TO INCLUDE AN IR SUBCONTRA ACTORS, FABRI	IY OR ALL OF TH CTORS, CONST	HE FOLLOWIN	IG:	DP6	BASIC WIND WIND RISK C WIND EXPOS INTERNAL PF	N PARAMETERS SPEED (V) (3 SE ATEGORY SURE CATEGOR RESSURE COEF IN PRESSURE @	ECOND GUST) Y FICIENT		110 MPH II C +/18 20 PSF (SERVIC	
<u>FP</u> FP1	FOUNDATION PARA SIZE AND BOTTOM THE GEOTECHNICA DATED 08/09/1999. CONDITIONS MAY F	ELEVATIONS O AL REPORT FILE AS EXCAVATION	NO. 08995094 F PROGRESSES	REPARED BY T	ERRACON AN ED SOIL	ND	DP7	NET WIND UF	PLIFT @ ROOF .OAD PARAMET			3.5 IN. / HR.	
FP2		BEARING PRESS	URE				DP8		WALL DEFLECT CLADDING DESIG ER DESIGN)			L/360 L/600 ≤ 0.3" L/360	
FP3	MINIMUM FOOTING	FOOTINGS DEPTH FOR FR FINISHED GRAD	OST PROTECTIO	NC	PSF		DP9	ALLOWABLE ROOF LIVE LO ROOF TOTAL		ECTIONS:		L/360 L/240	
FP5	GEOTECHNICAL EN MATERIAL TO SUPP BY GEOTECHNICAL	PORT FOUNDAT	IONS. BEARING	MATERIAL SHA	LL BE APPRC		DP10	FLOOR LIVE I FLOOR TOTA	LOAD			L/360 L/240	
FP6	PROCEED WITHOU PRIOR TO COMMEN	IT APPROVAL.						VERTICAL HORIZONTAL				NONE NONE	
ΤŪ	FAMILIAR WITH ALL GEOTECHNICAL EN	ASPECTS OF T	HE GEOTECHN	ICAL REPORT. (									

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	8		9		10		11		12		13		14		15
	<u>SU</u> SU1						AL LOG ITEMIZING IGINEER OF		<u>SF</u> SF1 SF2	STEEL	FRAMING MATER	SHALL CON		APTER 22 OF TH	e IBC.
т	SU2	BY THE GEI ENGINEER VERIFYING CONTRACT	NERAL CONTRA OF RECORD. S GENERAL CON OR IS RESPON 'S, DIMENSION/	ACTOR PRIOF HOP DRAWIN FORMANCE 1 SIBLE FOR AI	R TO SUBMITT G REVIEW BY TO THE CONT NY CHANGES	TAL TO THE ST Y ENGINEER IS TRACT DOCUM FROM THE CC	ELIMITED TO ENTS.			SF2.1 SF2.2 SF2.3 SF2.4	TUBULAR STE AST M-SECTIONS, AST ANGLES, PLA AST	M A992 EL M A500 GR S-SECTION M A572	C S, HP-SECTION	FY=50,000 PSI FY=50,000 PSI NS FY=50,000 PSI FY=50,000 PSI	
	SU3 SU4	FABRICATIO INCLUDING • CONCRE • CONCRE • EMBEDD • STRUCTU • LT. GA. M	WINGS SHALL E DN AND CONST THE FOLLOWIN TE MIX DESIGN TE REINFORCE ED STEEL ITEM JRAL STEEL IETAL STUDS	RUCTION RE NG: IS (5 DAYS BE IMENT IS	Garding All	L STRUCTURAL , MIN.)				SF2.5 SF2.6 SF2.7 SF2.8 SF2.9	HEADED ANC AST MIN MIN ANCHOR ROE AST STEEL JOIST	M A108, GR . TENSILE S . YIELD STR S M F1554 K-LH SERIES	R STUDS C-1010 THRU TRENGTH ENGTH	FY=35,000 PSI C-1020 FY=65,000 PSI FY=65,000 PSI FY=36,000 PSI UI	NO
	SU5	GRADE OF DETERMINI IF SHOP DR DRAWINGS REGISTERE DRAWINGS	ALL MEMBERS. NG FIT AND PL/ AWINGS DIFFE , THEY SHALL E	PLANS AND ACEMENT SH R FROM OR A BEAR THE SE ROPRIATE STA BMITTED TO T	ANY DETAILIN ALL ALSO BE ADD TO THE I AL AND SIGN ATE. ANY CHA HE ARCHITE(	NG NECESSAR INCLUDED. DESIGN OF THE ATURE OF AN ANGES TO THE CT AND ARE SU	RY FOR E STRUCTURAL ENGINEER E STRUCTURAL UBJECT TO		SF3	STEEL STAND/ COLUM OR ADE GUYING	E70 ERECTION SHAL ARD REGULATIO INS MUST BE FR. EQUATELY GUYE G/BRACING IS TH	XX L COMPLY V NS. IN ADDI AMED WITH D OR BRAC	ITION, AT THE I BEAMS AND/C ED IN BOTH D	END OF THE WO	WO DIRECTIONS, PORARY
	SU6	DESIGN DR FABRICATIO • LIGHT GA • WINDOW • TEMPOR SHALL BEA APPROPRIA	AWINGS, SHOP DN OF ITEMS TH METAL FRAM WALLS AND A ARY SHORING R THE SEAL AN ATE STATE AND	P DRAWINGS, HAT ARE DES ING LL OTHER GL ID SIGNATUR SHALL BE SI	AND CALCUL IGNED BY TH AZING SYSTE E OF AN ENG JBMITTED TO	LATIONS FOR T IE CONTRACTO EMS GINEER REGIST D THE ARCHITE	THE DESIGN AND DR, INCLUDING: TERED IN THE ECT PRIOR TO		INSTALLATION). SF4 DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE STEEL CONSTRUCTION MANUAL, AISC 360-16 INCLUDING COMMENTARY, AND AISC 303-16. SF5 ALL BOLTS FOR STEEL CONNECTIONS TO BE INSTALLED PER AISC 360 AND R SF5.1 ALL BOLTS TO BE ASTM A325-N U.N.O. SF5.2 BOLTS USED IN STEEL JOIST CONSTRUCTION MAY BE ASTM A307 SF5.3 ALL BOLTS SHALL BE INSTALLED SNUG-TIGHT U.N.O.						
	SU7	CONNECTION STRUCTUR ITEMS THAT THE LIVE LO	DNS TO THE ST AL ELEMENTS I T ARE DESIGNE DADS INDICATE ONAL LOADING	RUCTURE, CO INDUCED BY ED BY THE CC ED IN STRUCT	ONSIDERING THE CONNEC INTRACTOR S URAL NOTES	LOCALIZED EF CTION LOADS. SHALL BE DESI 3, DEAD LOAD,	CLUDED FOR ALL FECTS ON IGNED TO RESIST SELF WEIGHT, NOW DRIFT, AND A		SF6	BUILDIN A WELD APPRO	NG SHALL CONFO NG CONSTRUCTI DED PROCEDUR VED BY THE STF	ORM TO THE ON. WELDIN E SPECIFICA RUCTURAL E	E AWS CODES NG SHALL BE F ATION (WPS) A ENGINEER. THI	FOR ARC AND G PERFORMED IN A S REQUIRED IN A	CCORDANCE WITH AWS D1.1 AND ES SHALL BE WITHIN
/ICE) /ICE)	SU8	ITEMS THA TECHNICAL FROM THE	T ARE DESIGNE . LITERATURE F	ROM MANUF	ACTURER. AL	LSO PROVIDE	E ANY RELEVANT A CERTIFICATION LIANCE WITH ALL		SF7 SF8	U.N.O. A CERTIF FOR CO	ALL WELDING FO IED WELDERS IN OMPLETE JOINT I	OR STRUCTU NACCORDA PENETRATIO	JRAL STEEL CO NCE WITH AW ON WELDS, WI	ONNECTIONS TC 'S D1.1. ELDS SHALL BE I	BE 3/16" MINIMUM, BE PERFORMED BY MADE WITH FILLER
	SU9	PLUMBING, WITH THE S ASCE 7, CH	STRUCTURE. AN APTER 13 AND OPRIATE STATE	CAL EQUIPME NY CONNECT SHALL BE DE	NT, MACHINE IONS TO STR SIGNED BY A	RY, AND ASSO UCTURE SHAL AN ENGINEER I	MECHANICAL, DCIATED PIPING L CONFORM TO REGISTERED IN CHITECT PRIOR		SF9	WELDIN CHORD SOLE E AND AL	NG TO JOIST WE DS IS PROHIBITEI EXCEPTION OF JO L OTHER WELDE HMENTS MADE T	B MEMBERS D WITHOUT DIST BRIDGI ED ATTACHI	S IS PROHIBITE THE APPROVA ING. WALL PAN MENTS SHALL		JOIST BOTTOM IEER, WITH THE
	SU10	FROM OR A SIGNATURE	NEERED DETAI DD TO THE STI OF AN ENGINE SUBMITTED TO	RUCTURAL DI EER REGISTE	RAWINGS SH RED IN THE A	IALL BEAR THE APPROPRIATE	SEAL AND STATE AND		SF10	ALL STE SHOP A	EEL BEAMS, COL APPLIED PRIMER TOP FLANGE PRIMED. GALVANIZED STEEL THAT I FOR LOCATIO	, WITH THE OF BEAMS F BEAMS SHA S TO RECEI NS) SHALL I	FOLLOWING E RECEIVING HE ALL NOT BE PR VE SPRAY-APP	ADED STUDS SH RIMED. PLIED FIREPROO ED OR SHALL BE	ALL NOT BE FING (SEE ARCH.

CN1	CONCRETE NOTES	SP         SPECIAL INSPECTION           SP1         SPECIAL INSPECTION PROGRAM SHALL CONFORM TO CHAPTER 17 OF THE IBO           SP2         THE OWNER OLIVAL ENDLOY: A OPECIAL INSPECTOR TO REPEORM THE RECIP		
CN2	WHERE NEW CONCRETE IS PLACED AGAINST EXISTING CONCRETE, THE EXISTING CONCRETE SURFACE SHALL BE CLEANED AND ROUGHENED TO A MINIMUM OF 1/4" AMPLITUDE.	SP2 THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO PERFORM THE REQUI TESTS AND SPECIAL INSPECTIONS WITH QUALIFICATIONS DESCRIBED PER IB CHAPTER 17 AND THE PROJECT SPECIFICATIONS.		ARCHITECI
CN3 CN4	ALL EXPOSED EDGES OF CONCRETE MEMBERS SHALL BE CHAMFERED 3/4" U.N.O. CONCRETE FORMWORK:	SP3 SPECIAL INSPECTION REPORTS SHALL BE FURNISHED TO BUILDING OFFICIAL, OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND CONTRACTOR.	,	100 Court Ave., Suite 100 Des Moines, IA 50309
	CN4.1 SLEEVES, OPENINGS, CONDUIT, AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO POURING CONCRETE. CONDUITS EMPEDDED IN LARS SHALL NOT BE LABOER IN OUTSIDE DIMENSION	SP4 SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING THAT THE STRUCTURAL WORK WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS		P: 515-309-0722 www.opnarchitects.com
	EMBEDDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN ONE THIRD OF THE THICKNESS OF THE SLAB AND SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS ON CENTER. CN4.2 VERIFY ALL BLOCK OUTS WITH ARCHITECTURAL, MECHANICAL,	DOCUMENTS. SP5 SPECIAL INSPECTION PROGRAM:		All reports, plans, specifications, computer files, field danged and the state of t
CN5	ELECTRICAL, AND PLUMBING REQUIREMENTS PRIOR TO POURING.	VERIFICATION AND INSPECTION STRUCTURAL STEEL - CONFORM TO AISC 360 REQUIREMENTS	FREQUENCY / TASK	OPN Architects, Inc. as instruments of service shall rem the property of OPN Architects, Inc. OPN Architects, Ir shall retain all common law, statutory and other reserv
	<ul> <li>CN5.1 DETAILING, FABRICATION, AND PLACEMENT OF REINFORCEMENT SHALL CONFORM TO ACI-315.</li> <li>CN5.2 ALL REINFORCEMENT TO BE ASTM A615 GRADE 60 U.N.O. WELDED WIRE</li> </ul>	I. INSPECTION TASKS PRIOR TO WELDING:     A. WELDER QUALIFICATION & CONTINUITY RECORDS	OBSERVE	rights, including the copyright thereto.
	FABRIC TO BE ASTM A185 WITH WIRE CONFORMING TO ASTM A82. REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE USING #16 ANNEALED IRON WIRE. REINFORCEMENT SHALL BE CONTINUOUS	B. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE. C. MANUFACTURER'S CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	PERFORM	Owner
	THROUGH ALL CONSTRUCTION JOINTS, U.N.O. CN5.3 ALL CONTINUOUS REINFORCING SHALL BE SPLICED USING CLASS B TENSION SPLICES, U.N.O. CN5.4 BARS IN BEAMS AND SLABS SHALL BE SUPPORTED ON WELL-CURED	D. MATERIAL IDENTIFICATION (TYPE/GRADE). E. WELDER IDENTIFICATION SYSTEM.	OBSERVE	STATE OF IOWA - DEPARTMENT OF ADMINISTRATIVE SERVICES
	CNS.4 BARS IN BEAMS AND SLABS SHALL BE SOFFOLIED NWELL-CICKED CONCRETE BLOCKS OR APPROVED METAL CHAIRS, AS SPECIFIED BY THE CRSI MANUAL OF STANDARD PRACTICE, MSP-1. CN5.5 CONTINUE HORIZONTAL WALL BARS THROUGH PILASTERS, COLUMNS,	F. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY): • JOINT PREPARATION	OBSERVE	1305 E WALNUT ST DES MOINES, IA 50319
	INTERSECTING WALLS AND INTERSECTING FOUNDATIONS. REFER TO TYPICAL DETAILS FOR LAYOUT OF CORNER BARS AND BARS IN SMALL WALL SECTIONS. SLAB BARS SHALL BE HOOKED INTO WALLS OR HOOKED	<ul> <li>DIMS. (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)</li> <li>CLEANLINESS (CONDITION OF STEEL SURFACES)</li> <li>TACKING (TACK WELD QUALITY &amp; LOCATION)</li> <li>BACKING TYPE &amp; FIT (IF APPLICABLE)</li> </ul>		Project
	DOWELS SHALL BE PROVIDED TO MATCH SLAB REINFORCING. PROVIDE HOOKED DOWELS FROM FOOTINGS TO MATCH VERTICAL WALL REINFORCING.	G. FIT-UP OF CJP GROOVE WELDS OF HSS, T, Y, & K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY):	OBSERVE	9411.00 - DAS 6200 PARK ALJ - WORKMAN'S COMP RENOVATION
	<ul> <li>CN5.6 ADD TWO DIAGONAL #5 BARS, FOUR FEET LONG, CENTERED, AT EACH</li> <li>CORNER OF FOUNDATION OR SLAB OPENING, U.N.O.</li> <li>CN5.7 U.N.O., INSTALL WWF 1 1/2" FROM TOP OF ALL SLABS ON GRADE, TOPPING</li> <li>SLABS ON DECK, OR TOPPING SLABS ON PRECAST. LAP JOINTS TWO FULL</li> </ul>	JOINT PREPARATION     DIMS. (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)     CLEANLINESS (CONDITION OF STEEL SURFACES)		6200 PARK AVE DES MOINES, IA 50321
	MESHES BUT NOT LESS THAN 8". AT CONSTRUCTION JOINTS, LOCATE WWF AT MID DEPTH OF SLAB.	TACKING (TACK WELD QUALITY & LOCATION)      H. CONFIGURATION & FINISH OF ACCESS HOLES.	OBSERVE	
CN6	COVERAGE FOR REINFORCEMENT: CN6.1 CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	I. FIT-UP OF FILLET WELDS: • DIMS. (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD OLIVALITY & LOCATION)	OBSERVE	Construction Manager DCI GROUP
	CN6.2 CONCRETE EXPOSED TO EARTH AND WEATHER: #6 THRU #18 BARS 2" #5 BAR, W31 OR D31 WIRE	• TACKING (TACK WELD QUALITY & LOCATION) 2. INSPECTION TASKS DURING WELDING: A. CONTROL & HANDLING OF WELDING CONSUMABLES:	OBSERVE	220 SE 6TH ST - SUITE 200 DES MOINES, IA 50309
	AND SMALLER 1 1/2" CN6.3 CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	A. CONTROL & HANDLING OF WELDING CONSUMABLES:     • EXPOSURE CONTROL • PACKAGING     B. NO WELDING OVER CRACKED TACK WELDS.	OBSERVE	P. 515-244-5043
	SLABS, WALLS, JOISTS: #14 AND # 181 1/2" #11 BAR AND SMALLER3/4" BEAMS, COLUMNS:	C. ENVIRONMENTAL CONDITIONS: • WIND SPEED WITHIN LIMITS • PRECIPITATION & TEMP. D. WPS FOLLOWED:	OBSERVE	Civil Engineer
	PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS 1 1/2"	• SETTINGS ON WELDING EQPT.     • SELECTED WELDING MATERIALS     • SHIELDING GAS TYPE/FLOW RATE     • PROPER POSITION (F, V, H, OH)		2400 86TH ST - UNIT 12 DES MOINES, IA 50322
CN7	CONCRETE COMPRESSIVE STRENGTHS SHALL BE VERIFIED BY STANDARD 28-DAY CYLINDER TESTS PER ASTM C39 AND SHALL BE AS FOLLOWS: FOOTINGS	INTERPASS TEMP. MAINTAINED (MIN / MAX)      E. WELDING TECHNIQUES:	OBSERVE	P. 515-276-7084
CN8	SLABS ON GRADE f'c = 4,000 PSI SPECIAL INSPECTOR SHALL BE NOTIFIED IF ANY WATER IS TO BE ADDED IN FIELD.	INTERPASS & FINAL CLEANING     EACH PASS WITHIN PROFILE LIMITATIONS     EACH PASS MEETS QUALITY REQUIREMENTS		Structural Engineer RAKER RHODES ENGINEERING
CN9	CONCRETE FOUNDATIONS: CN9.1 ALL FOUNDATION EXCAVATIONS MUST BE REVIEWED AND APPROVED BY	F. PLACEMENT & INSTALLATION OF STEEL HEADED STUD ANCHORS.         3. INSPECTION TASKS AFTER WELDING:	PERFORM	4717 GRAND AVE DES MOINES, IA 50312
	THE SOILS ENGINEER PRIOR TO PLACEMENT OF CONCRETE. CN9.2 ACCURATELY SET AND SECURELY SUPPORT REINFORCING, DOWELS AND ANCHOR BOLTS PRIOR TO PLACEMENT OF CONCRETE. WET- STICKING OR FLOATING OF REINFORCING, DOWELS AND ANCHOR RODS IS	A. WELDS CLEANED. B. SIZE, LENGTH, & LOCATION OF WELDS.	OBSERVE PERFORM	P. 515-277-0275
	NOT ALLOWED. CN9.3 PROVIDE CONSTRUCTION JOINTS, INSERTS, SLEEVES, DOWELS, ANCHORS, ETC., AS SHOWN. ITEMS SHALL BE INSTALLED PER	C. WELDS MEET VISUAL ACCEPTANCE CRITERIA: • CRACK PROHIBITION • WELD SIZE • WELD / BASE-METAL FUSION • UNDERCUT	PERFORM	Mechanical Engineer KCL ENGINEERING
	MANUFACTURER'S INSTRUCTIONS AND ACCORDING TO USUAL ACCEPTED STANDARDS OF THE TRADE. ANCHOR RODS PER ASTM F1554 AS SHOWN. CN9.4 ALL FOUNDATION COLD JOINTS SHALL BE KEYED. CONTINUOUS	• CRATER CROSS SECTION     • POROSITY     • WELD PROFILES     D. ARC STRIKES.	PERFORM	300 4TH ST WEST DES MOINES, IA 50265
	REINFORCING SHALL EXTEND ONE DEVELOPMENT LENGTH PLUS 6". LOCATE FOUNDATION COLD JOINTS AT EXPANSION JOINTS IN MASONRY VENEER WHEN POSSIBLE.	E. k-AREA. F. WELD ACCESS HOLES IN ROLLED HEAVY SHAPS & BUILT-UP HEAVY SHAPES.	PERFORM PERFORM	P. 515-724-7938
	CN9.5 REINFORCING SHOWN ON DETAILS IS THE REQUIRED MINIMUM. AT CONTRACTOR'S OPTION AND EXPENSE, ADDITIONAL REINFORCING MAY BE PERMITTED TO ASSIST IN EASE OF CONSTRUCTABILITY ADDITIONAL REINFORCING MUST BE SUBMITTED FOR REVIEW ON SHOP DRAWINGS.	G. BACKING & WELD TABS REMOVED (IF REQ'D.). H. REPAIR ACTIVITIES.	PERFORM PERFORM	Electrical Engineer
CN10	PROVIDE MINIMUM 6000 PSI NON-SHRINK, NON-METALLIC GROUT UNDER COLUMN BASE PLATES. GROUT SHALL NOT CONTAIN GYPSUM. COLUMN BASES TO BE	I. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER.J. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF EOR.	PERFORM PERFORM	300 4TH ST WEST DES MOINES, IA 50265
CN11	GROUTED BEFORE PLACEMENT OF CONCRETE TOPPING ON STEEL FORMS. MINIMUM 4" CONCRETE SLAB ON GRADE WITH WWF 6X6-W2.1 X W2.1, OVER VAPOR	K. N.D.T. OF CJP WELDS & JOINTS SUBECT TO FATIGUE PER AISC 360. 4. INSPECTION TASKS PRIOR TO BOLTING:	PERFORM	P. 515-724-7938
CN12	BARRIER, OVER A MINIMUM 6" COMPACTABLE, TRIMMABLE, GRANULAR FILL, TYP. U.N.O. ON DRAWINGS AND GEOTECHNICAL REPORT.	A. MFR. CERTS. AVAILABLE FOR FASTENER MATERIALS. B. FASTENERS MARKED IN ACCORDANCE w/ ASTM RQMTS.	PERFORM OBSERVE	
GNTZ	SLAB CONTROL JOINTS: CN12.1 PROVIDE SLAB CONTROL JOINTS FOR THE FOLLOWING, U.N.O.: • SLAB-ON-GRADE	C. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH, EXCLUDED THREADS). D. CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL.	OBSERVE	
	CN12.2 PROVIDE SLAB CONTROL JOINTS ON GRID LINE WHERE PRACTICAL. CN12.3 MAINTAIN A SLAB CONTROL JOINT ASPECT RATIO OF APPROXIMATELY 1:1.	E. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION & HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE RQMTS.	OBSERVE	
CN14	CONCRETE ACCESSORIES: CN14.1 U.N.O., HEADED SHEAR STUDS TO BE NELSON HEADED ANCHORS WITH FLUXED ENDS OR APPROVED EQUIVALENT AND SHALL BE	F. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED & DOCUMENTED FOR FASTENER ASSEMBLIES & METHODS USED. G. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS & OTHER	OBSERVE	
	AUTOMATICALLY END WELDED BY UTILIZING THE MANUFACTURER'S STANDARD EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CN14.2 U.N.O., DEFORMED BAR ANCHORS (D.B.A.) SHALL BE NELSON, TYPE D2L,	FASTENER COMPONENTS. 5. INSPECTION TASKS DURING BOLTING:		
	OR APPROVED EQUIVALENT AND SHALL BE AUTOMATICALLY END WELDED BY UTILIZING THE MANUFACTURER'S STANDARD EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.	A. FASTENER ASSEMBLIES PLACED IN ALL HOLES & WASHERS & NUTS ARE     POSITIONED AS REQ'D.     B. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE	OBSERVE	
	CN14.3 U.N.O., EXPANSION BOLTS TO BE HILTI KWIK BOLT TZ OR APPROVED EQUIVALENT WITH EQUAL ICC TENSION AND SHEAR VALUES. EXPANSION ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH	PRETENSIONING OPERATION. C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	OBSERVE	
	MANUFACTURER'S RECOMMENDATIONS. DO NOT CUT REINFORCING IN NEW OR EXISTING CONCRETE DURING INSTALLATION. CN14.4 U.N.O., EPOXY ANCHORS TO BE HILTI HIT-RE 500 V3 OR APPROVED	D. FASTENERS ARE PRETENSIONED IN ACCORDANCE w/ THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID	OBSERVE	
	EQUIVALENT WITH EQUAL ICC TENSION AND SHEAR VALUES. EPOXY ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DO NOT CUT REINFORCING IN NEW OR EXISTING CONCRETE DURING INSTALLATION.	POINT TOWARD THE FREE EDGES.  6. INSPECTION TASKS AFTER BOLTING:  A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNS.	OBSERVE	
CN17	EPOXY REPAIR ADHESIVE SHALL CONFORM TO ASTM C881 AND SHALL BE A TWO- COMPONENT, LIQUID EPOXY WITH NON-SAG CONSISTENCY AND A LONG POT LIFE.	CONCRETE		
	THE EPOXY ADHESIVE SHALL BE SUITABLE FOR USE IN DRY OR DAMP CONDITIONS. MINIMUM SHEAR STRENGTH SHALL BE 5,000 PSI; MINIMUM TENSILE STRENGTH SHALL BE 4,000 PSI. HOLE SIZES AND INSTALLATION SHALL BE IN STRICT	I. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS,     & VERIFY PLACEMENT.     2. REINFORCING BAR WELDING:	PERIODIC	
	COMPLIANCE WITH THE APPROVED ICC REQUIREMENTS. DO NOT CUT REINFORCING IN NEW OR EXISTING CONCRETE DURING PLACEMENT.	A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706. B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16".	PERIODIC PERIODIC	
CN19	EXPOSED CONCRETE: CN19.1 WHERE SLAB ON GRADE, SLAB, OR TOPPING SLAB IS PERMANENTLY EXPOSED TO VIEW, SLAB SHALL BE WET CURED. SEE ARCH. FOR	C. INSPECT ALL OTHER WELDS. 3. INSPECT ANCHORS CAST IN CONCRETE.	CONT. PERIODIC	
	LOCATIONS. SEE SPECIFICATIONS FOR WET CURING INFORMATION. CN19.4 CONCRETE MIXES USED FOR CONCRETE SURFACES PERMANENTLY EXPOSED TO VIEW SHALL NOT INCLUDE DELETERIOUS MATERIAL WHICH MAY CALISE FINISHED SURFACE IRREGULARITIES	<ul><li>4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:</li><li>A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED</li></ul>	CONT.	
05	MAY CAUSE FINISHED SURFACE IRREGULARITIES.	ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	PERIODIC	
CF1 CF2	COLD-FORMED STEEL STUDS (EXTERIOR WALLS) COLD-FORMED STEEL WORK SHALL CONFORM WITH CHAPTER 22 OF THE IBC. COLD-FORMED STEEL STUDS SHALL BE C-SHAPED STUDS FORMED FROM	<ol> <li>5. VERIFY USE OF REQUIRED DESIGN MIX.</li> <li>6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP &amp; AIR CONTENT TESTS, AND DETERMINE CONCRETE</li> </ol>	PERIODIC CONT.	
51 2	STRUCTURAL QUALITY STEEL HAVING A MINIMUM YIELD STRENGTH OF 33 KSI FOR 18 AND 20 GA. AND 50 KSI FOR 12, 14, AND 16 GA. AND CONFORM TO THE REQUIREMENTS OF ASTM A568 AND A1008. STUDS SHALL BE OF THE SIZE, GA., AND	TESTS, PERFORM SLOWP & AIR CONTENT TESTS, AND DETERMINE CONCRETE         TEMPERATURE.         7. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONT.	
CF3	SPACING SHOWN ON THE DRAWINGS. ALL COLD-FORMED STUDS, TRACK, BRIDGING, AND ACCESSORIES SHALL BE	<ol> <li>VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE &amp; TECHNIQUES.</li> <li>INSPECT PRESTRESSED/PRECAST CONCRETE FOR:</li> </ol>	PERIODIC	
05	FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A653, G-60 GALVANIZED FINISH.	A. APPLICATION OF PRESTRESSING FORCES. B. GROUTING OF BONDED PRESTRESSING TENDONS.	CONT. CONT.	
CF4	HORIZONTAL DEFLECTION OF THE WALL RESULTING FROM LATERAL LOAD (WIND LOAD, ETC.) SHALL NOT EXCEED L/600.	<ol> <li>INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.</li> <li>FOR PRECAST CONCRETE DIAPHRAGM CONNS. OR REINF. AT JOINTS CLASSIFIED AS MODERATE OR HIGH DECOMMENTLY ELEMENTS (MDE OR HDE) IN</li> </ol>	PERIODIC	
CF5	VERTICAL DEFLECTION OF THE WALL RESULTING FROM THE WEIGHT OF THE WALL EXTERIOR FACING MATERIAL SHALL NOT EXCEED <b>L/720</b> OR <b>1/4"</b> , WHICHEVER IS LESS.	AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C,D, E, OR F, INSPECT SUCH CONNS. & REINF. IN THE FIELD FOR:		Key Plan
CF6	LOAD BEARING STUDS SHALL HAVE HORIZONTAL STRAPPING ON BOTH FACES AT 4'-0" O.C. PROVIDE BRIDGING IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS ADEQUATE FOR DEVELOPMENT OF THE FULL MOMENT	A. INSTALLATION OF THE EMBEDDED PARTS. B. COMPLETION OF THE CONTINUITY OF REINF. ACROSS JOINTS.	CONT. CONT.	ncy ridii
CF7	CAPACITY OF THE STUDS. FOR LOAD BEARING STUDS, STUDS SHALL BE FULLY SEATED IN TRACK. TRACK	C. COMPLETION OF CONNECTIONS IN THE FIELD. 12. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNS. FOR COMPLIANCE WITH ACI 550.5	CONT. PERIODIC	
CF8	SHALL BE OVERSIZED TO PROVIDE FULL STUD BEARING. SCREWS SHALL BE ELCO DRIL-FLEX, HILTI KWIK-FLEX, OR AN APPROVED	13. VERIFY OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST TENSIONED CONCRETE & PRIOR TO REMOVAL OF	PERIODIC	
CF9	EQUIVALENT. COLD-FORMED STEEL WELDING SHALL CONFORM WITH AWS D1.3.	SHORES & FORMS FROM BEAMS & STRUCTURAL SLABS. 14. INSPECT FORMWORK FOR SHAPE, LOCATION & DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC	
CF10	COLD-FORMED SIZES SHOWN ARE FOR PRICING PURPOSES ONLY. FINAL DESIGN AND CONNECTIONS BY COLD-FORMED DESIGNER.	SOILS 1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO	PERIODIC	
CF11	U.N.O., PROVIDE (1) 0.157" DIA. PAF @16" O.C. (1 1/4" EMBED) @ BOTTOM WALL TRACKS FOR WALLS ≤ 6". PROVIDE (2) 0.157" DIA. PAFS @ 16" O.C. (1 1/4" EMBED) @ BOTTOM WALL TRACKS FOP WALLS > 6"	ACHIEVE THE DESIGN BEARING CAPACITY. 2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH & HAVE REACHED	PERIODIC	
	BOTTOM WALL TRACKS FOR WALLS > 6".	PROPER MATERIAL. 3. PERFORM CLASSIFICATION & TESTING OF COMPACTED FILL MATERIALS.	PERIODIC	
		4. DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL	CONT.	

P2 P3	TESTS AND SPECIAL INSPECTIONS WITH QUALIFICATIONS DESCRIBED PER IB CHAPTER 17 AND THE PROJECT SPECIFICATIONS. SPECIAL INSPECTION REPORTS SHALL BE FURNISHED TO BUILDING OFFICIAL,	C
P4	OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND CONTRACTOR. SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING THAT THE STRUCTURAL WORK WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.	
P5	SPECIAL INSPECTION PROGRAM:	FREQUENCY
-	RUCTURAL STEEL - CONFORM TO AISC 360 REQUIREMENTS	/ TASK
	INSPECTION TASKS PRIOR TO WELDING: A. WELDER QUALIFICATION & CONTINUITY RECORDS	OBSERVE
	B. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE. C. MANUFACTURER'S CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	PERFORM PERFORM
	D. MATERIAL IDENTIFICATION (TYPE/GRADE). E. WELDER IDENTIFICATION SYSTEM.	OBSERVE OBSERVE
	<ul> <li>F. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY):</li> <li>JOINT PREPARATION</li> <li>DIMS. (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)</li> <li>CLEANLINESS (CONDITION OF STEEL SURFACES)</li> <li>TACKING (TACK WELD QUALITY &amp; LOCATION)</li> <li>BACKING TYPE &amp; FIT (IF APPLICABLE)</li> </ul>	OBSERVE
	<ul> <li>G. FIT-UP OF CJP GROOVE WELDS OF HSS, T, Y, &amp; K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY):</li> <li>JOINT PREPARATION</li> <li>DIMS. (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)</li> <li>CLEANLINESS (CONDITION OF STEEL SURFACES)</li> <li>TACKING (TACK WELD QUALITY &amp; LOCATION)</li> </ul>	OBSERVE
	H. CONFIGURATION & FINISH OF ACCESS HOLES. I. FIT-UP OF FILLET WELDS: • DIMS. (ALIGNMENT, GAPS AT ROOT)	OBSERVE OBSERVE
2.	CLEANLINESS (CONDITION OF STEEL SURFACES)     TACKING (TACK WELD QUALITY & LOCATION)  INSPECTION TASKS DURING WELDING:	
	A. CONTROL & HANDLING OF WELDING CONSUMABLES: • EXPOSURE CONTROL • PACKAGING B. NO WELDING OVER CRACKED TACK WELDS.	OBSERVE
	C. ENVIRONMENTAL CONDITIONS: • WIND SPEED WITHIN LIMITS • PRECIPITATION & TEMP.	OBSERVE
	D. WPS FOLLOWED:       • TRAVEL SPEED         • SETTINGS ON WELDING EQPT.       • TRAVEL SPEED         • SELECTED WELDING MATERIALS       • PREHEAT APPLIED         • SHIELDING GAS TYPE/FLOW RATE       • PROPER POSITION (F, V, H, OH)	OBSERVE
	INTERPASS TEMP. MAINTAINED (MIN / MAX)  E. WELDING TECHNIQUES:     INTERPASS & FINAL CLEANING	OBSERVE
	EACH PASS WITHIN PROFILE LIMITATIONS     EACH PASS MEETS QUALITY REQUIREMENTS  F. PLACEMENT & INSTALLATION OF STEEL HEADED STUD ANCHORS.  INSPECTION TASKS AFTER WEI DING:	PERFORM
	INSPECTION TASKS AFTER WELDING: A. WELDS CLEANED.	OBSERVE
	B. SIZE, LENGTH, & LOCATION OF WELDS. C. WELDS MEET VISUAL ACCEPTANCE CRITERIA: • CRACK PROHIBITION • WELD SIZE • WELD / BASE-METAL FUSION • UNDERCUT	PERFORM
	• CRATER CROSS SECTION     • POROSITY     • WELD PROFILES	
	D. ARC STRIKES. E. k-AREA.	PERFORM PERFORM
	F. WELD ACCESS HOLES IN ROLLED HEAVY SHAPS & BUILT-UP HEAVY SHAPES. G. BACKING & WELD TABS REMOVED (IF REQ'D.).	PERFORM
	H. REPAIR ACTIVITIES.	PERFORM
	I. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER.           J. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF EOR.	PERFORM PERFORM
1.	K. N.D.T. OF CJP WELDS & JOINTS SUBECT TO FATIGUE PER AISC 360. INSPECTION TASKS PRIOR TO BOLTING:	PERFORM
	A. MFR. CERTS. AVAILABLE FOR FASTENER MATERIALS.	PERFORM
	B. FASTENERS MARKED IN ACCORDANCE w/ ASTM RQMTS. C. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE,	OBSERVE OBSERVE
	BOLT LENGTH, EXCLUDED THREADS). D. CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL.	OBSERVE
	E. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION & HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE RQMTS.	OBSERVE
	F. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED & DOCUMENTED FOR FASTENER ASSEMBLIES & METHODS USED. G. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS & OTHER FASTENER COMPONENTS.	OBSERVE
5.	INSPECTION TASKS DURING BOLTING: A. FASTENER ASSEMBLIES PLACED IN ALL HOLES & WASHERS & NUTS ARE	OBSERVE
	POSITIONED AS REQ'D. B. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE	OBSERVE
	PRETENSIONING OPERATION. C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.	OBSERVE
	D. FASTENERS ARE PRETENSIONED IN ACCORDANCE w/ THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID	OBSERVE
б.	POINT TOWARD THE FREE EDGES. INSPECTION TASKS AFTER BOLTING:	OBSERVE
_	A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNS.	PERFORM
١.	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, & VERIFY PLACEMENT. REINFORCING BAR WELDING:	PERIODIC
_	A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706.	PERIODIC
	B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16". C. INSPECT ALL OTHER WELDS.	PERIODIC CONT.
	INSPECT ANCHORS CAST IN CONCRETE. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:	PERIODIC
	A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	CONT.
	B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A. VERIFY USE OF REQUIRED DESIGN MIX.	PERIODIC PERIODIC
	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP & AIR CONTENT TESTS, AND DETERMINE CONCRETE TEMPERATURE.	CONT.
3.	INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE & TECHNIQUES. INSPECT PRESTRESSED/PRECAST CONCRETE FOR:	CONT. PERIODIC
	A. APPLICATION OF PRESTRESSING FORCES.	CONT.
10	B. GROUTING OF BONDED PRESTRESSING TENDONS. . INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	CONT. PERIODIC
11	FOR PRECAST CONCRETE DIAPHRAGM CONNS. OR REINF. AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C,D, E, OR F, INSPECT SUCH CONNS. & REINF. IN THE FIELD FOR:	
	A. INSTALLATION OF THE EMBEDDED PARTS. B. COMPLETION OF THE CONTINUITY OF REINF. ACROSS JOINTS.	CONT. CONT.
	C. COMPLETION OF CONNECTIONS IN THE FIELD.	CONT.
	. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNS. FOR COMPLIANCE WITH ACI 550.5 . VERIFY OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF	PERIODIC
	TENDONS IN POST TENSIONED CONCRETE & PRIOR TO REMOVAL OF SHORES & FORMS FROM BEAMS & STRUCTURAL SLABS. INSPECT FORMWORK FOR SHAPE, LOCATION & DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC
SC	CONCRETE MEMBER BEING FORMED.	
	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC
	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH & HAVE REACHED PROPER MATERIAL.	PERIODIC
1.	PERFORM CLASSIFICATION & TESTING OF COMPACTED FILL MATERIALS. DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES & LIFT THICKNESSES DURING PLACEMENT &	PERIODIC CONT.
	COMPACTION OF COMPACTED FILL. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE & VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC
<u>R(</u> 1.	DGRAM FOOTNOTES THE ITEMS INDICATED ABOVE SHALL BE INSPECTED IN ACCORDANCE WITH CHAPT THE IBC BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AG MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE PROJECT SPEC	ENCY. FOR

THE IBC BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE PROJECT SPECIFICATIONS & THE SPECIFIC STRUCTURAL NOTES SECTIONS. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING & INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR, & BUILDING OFFICIAL. ANY MATERIALS WHICH FAIL TO MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.
CONT. - CONTINUOUS SPECIAL INSPECTION. SPECIAL INSPECTOR IS PRESENT CONTINUOUSLY WHEN & WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED. (BC SECTION 202).
PERIODIC - PERIODIC SPECIAL INSPECTION. SPECIAL INSPECTOR IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED. (BC SECTION 202).
OBSERVE - SPECIAL INSPECTOR SHALL DESERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS (AISC 360 SECTION N5).
PERFORM - SPECIAL INSPECTOR SHALL PERFORM THESE TASKS FOR EACH JOINT, CONNECTION, ELEMENT OR MEMBER (AISC 360 SECTION N5).
REQ'D - SPECIAL INSPECTOR SHALL PERFORM THESE TASKS FOR EACH JOINT, CONNECTION, ELEMENT OR MEMBER (AISC 360 SECTION N5).
REQ'D - SPECIAL INSPECTOR SHALL PERFORM THESE TASKS (TMS 602 TABLE 3)
SPECIAL INSPECTION IS NOT REQUIRED FOR WORK PERFORMED BY AN APPROVED FABRICATOR (IBC SECTION 1704.2.5).
ALL WELDS SHALL BE TESTED ULTRASONICALLY OR BY SIMILAR APPROVED METHOD.
INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL USED IN THE CONSTRUCTION TOOK PLACE ON SITE. CONTINUOUS INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL USED IN THE CONSTRUCTION TOOK PLACE ON SITE. CONTINUOUS INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHE

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Construction Manager DCI GROUP 220 SE 6TH ST - S DES MOINES, IA P. 515-244-5043		
Civil Engineer CIVIL ENGINEEI 2400 86TH ST - U DES MOINES, IA P. 515-276-7084	JNIT 12 50322	SULTANTS
Structural Engineer RAKER RHODE 4717 GRAND AVI DES MOINES, IA P. 515-277-0275	E	ERING
Mechanical Engineer KCL ENGINEER 300 4TH ST WEST DES MOIN P. 515-724-7938		5
Electrical Engineer KCL ENGINEER 300 4TH ST WEST DES MOIN P. 515-724-7938		5
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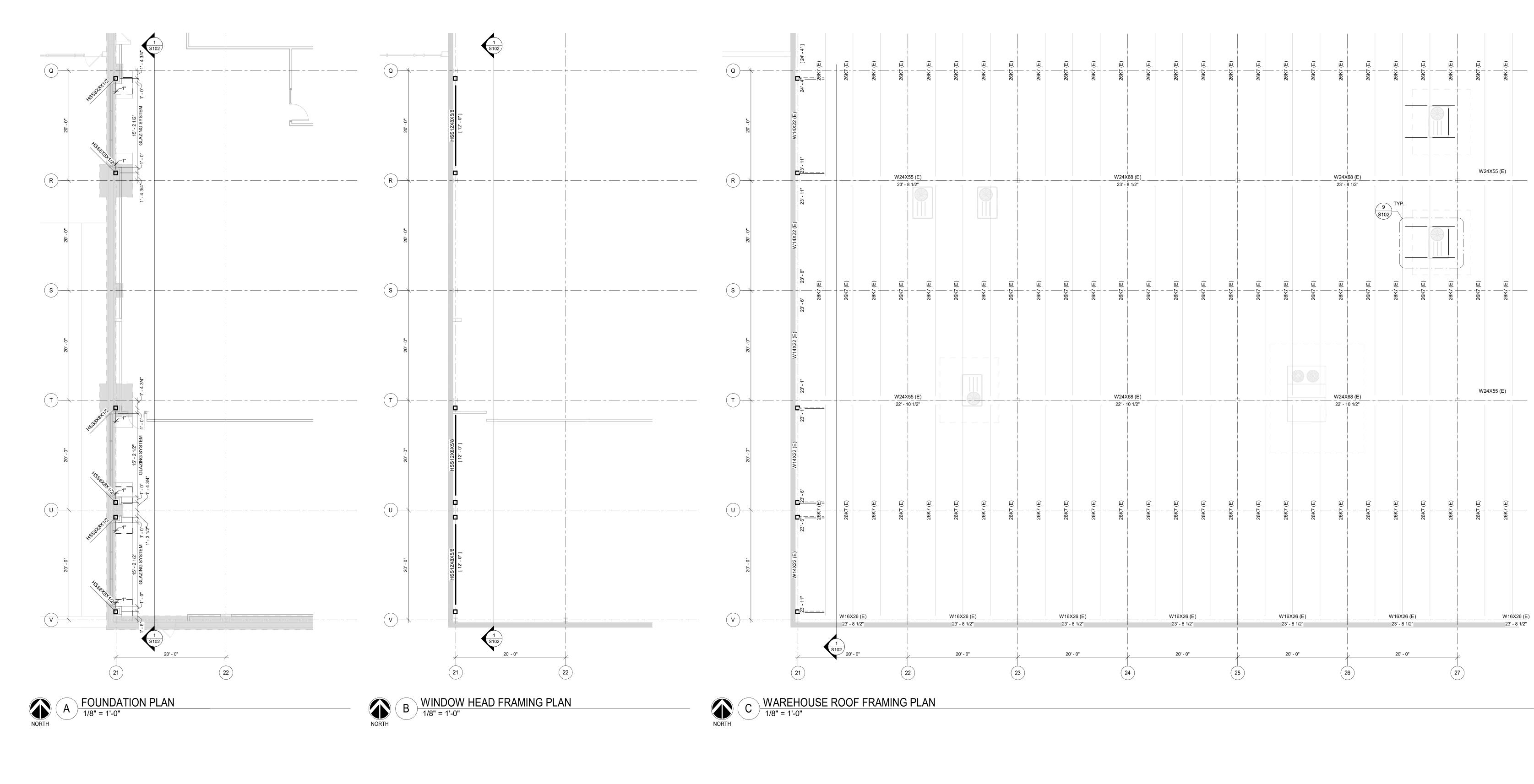
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Civil Engineer CIVIL ENGIN 2400 86TH S DES MOINES P. 515-276-7	T - UN 5, IA 50	IT 12	NSL	JLTAN	TS
Structural Engineer RAKER RHC 4717 GRAND DES MOINES P. 515-277-0	DDES DAVE 5, IA 50		IEER	ling	
Mechanical Enginee KCL ENGINI 300 4TH ST WEST DES M P. 515-724-7	EERIN 10INES		265		
Electrical Engineer KCL ENGINI 300 4TH ST					
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- HSS COLUMN PER PLAN AND DETAILS --REMOVE AND REPLACE EXISTING SLAB AS REQUIRED TO INSTALL NEW PIER AND FOOTING -BASEPLATE AND ANCHORS PER DETAILS 2" +/- GROUT BASE н 0'-0" • • • • EXISTING TRENCH FOOTING (1)-#4 (5T AND 5B) — • • • 77 11 3' - 0" x 3' - 0" FOOTING 6 NEW FOOTING DETAIL 3/4" = 1'-0" ROOF DECK – SEE PLAN ADDITIONAL POINT LOAD > 250 LBS ON TOP CHORD. SEE NOTE 1. (2)L1 1/2x1 1/2x1/4 -----3" MIN. SEE NOTE 1 3" MIN. SEE NOTE 1 TYP. 1/8 11/2 ADDITIONAL POINT LOAD > 250 LBS ON BOTTOM CHORD. \_\_\_\_ SEE NOTE 1. NOTES: 1. ADDITIONAL ANGLE STRUTS SHOWN SHALL BE PROVIDED @ ALL POINT LOADS GREATER THAN 250 LBS. OCCURRING @ A LOCATION GREATER THAN 3" AWAY FROM JOIST PANEL POINT. 2. CONTRACTOR TO FIELD VERIFY REQ'D LOCATIONS WITH FINAL WEB LAYOUT. В 10 TYP. POINT LOAD @ OWJ 1/2" = 1'-0" \_\_\_\_ А
- S12x8x5/8 GIRT/HEADEI 12'-0" T/ STEEL TYP. 1/4 3-12 EXISTING PRECAST WALL PANEL 10'-0" T/ OPENING EXISTING WALL TO BE REMOVED AFTER ALL STEEL AND CONNECTIONS
- 1 WALL FRAMING ELEVATION 1/4" = 1'-0" L6x6x5/8x12'-0" TOP AND BOTTOM w/ 1/2"Ø HILTI HIT-Z ROD w/ HILTI HIT-HY 200 V3 EPOXY AT 12" O.C. (8" EMBEDMENT INTO PRECAST)
- T/ STEEL 12'-0" T/ OPENING 10'-0"



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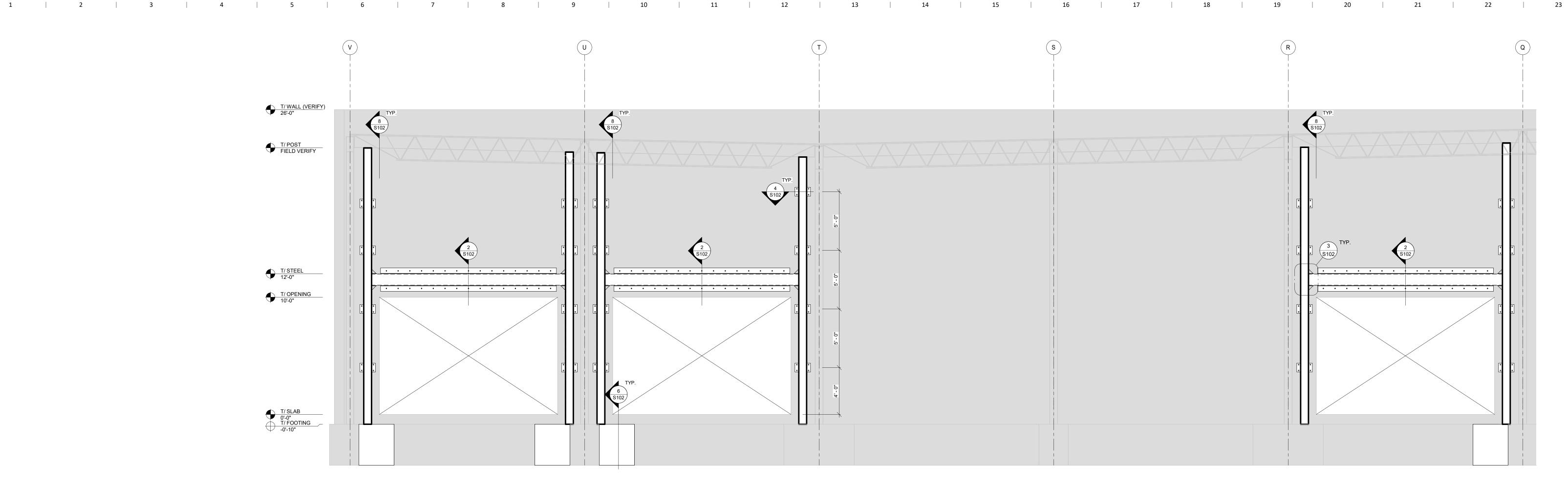
<u>T/ WALL (VERIFY</u>) 26'-0"

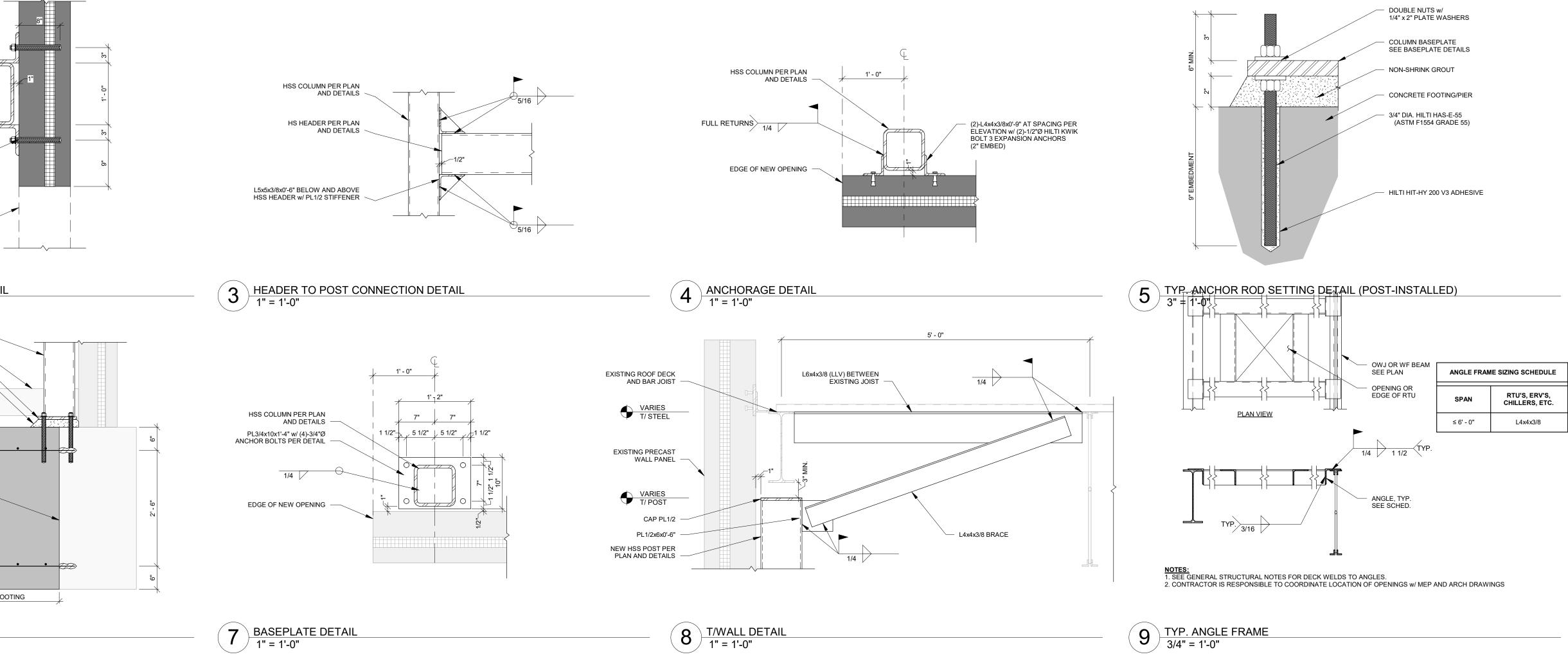
T/ POST FIELD VERIFY

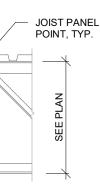
T/ SLAB 0'-0" T/ FOOTING -0'-10"

HAVE BEEN COMPLETED -

(2) HEADER TO EXISTING PRECAST DETAIL 1" = 1'-0"







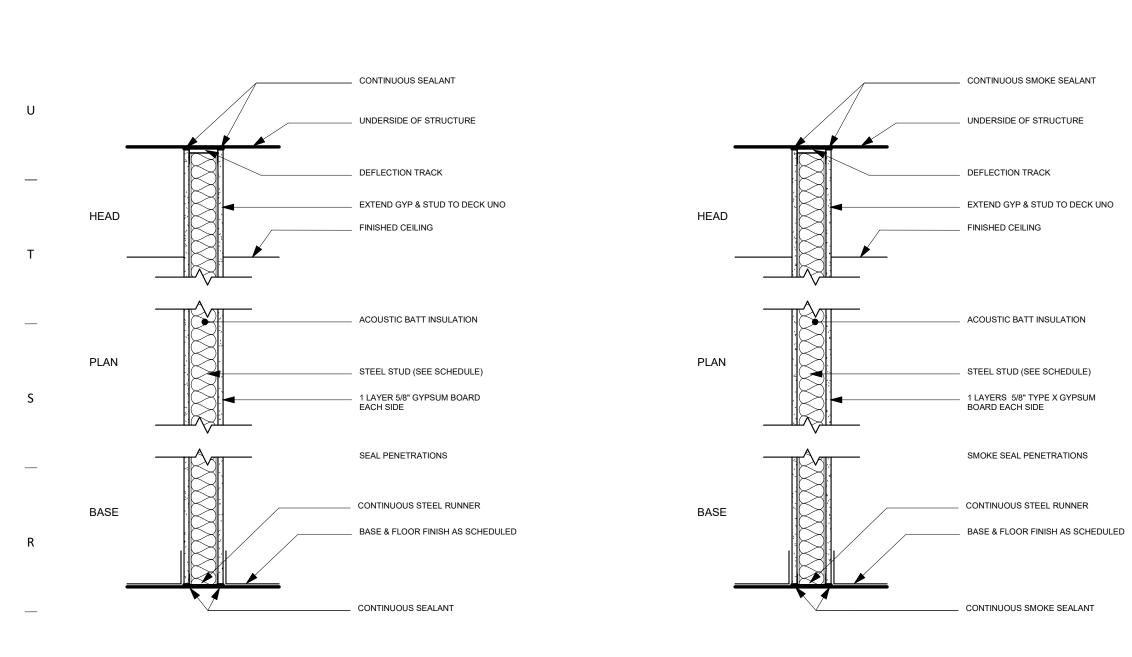
OWJ, SEE PLAN JOIST PANEL
 POINT, TYP.

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<b>ARCHITECTS</b>
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Electrical Engineer KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 50265 P. 515-724-7938
Key Plan
OPN Project No. <b>24816000</b>
Sheet Issue Date 100% CONSTRUCTION 08/16/24 DRAWING SET Sheet Name
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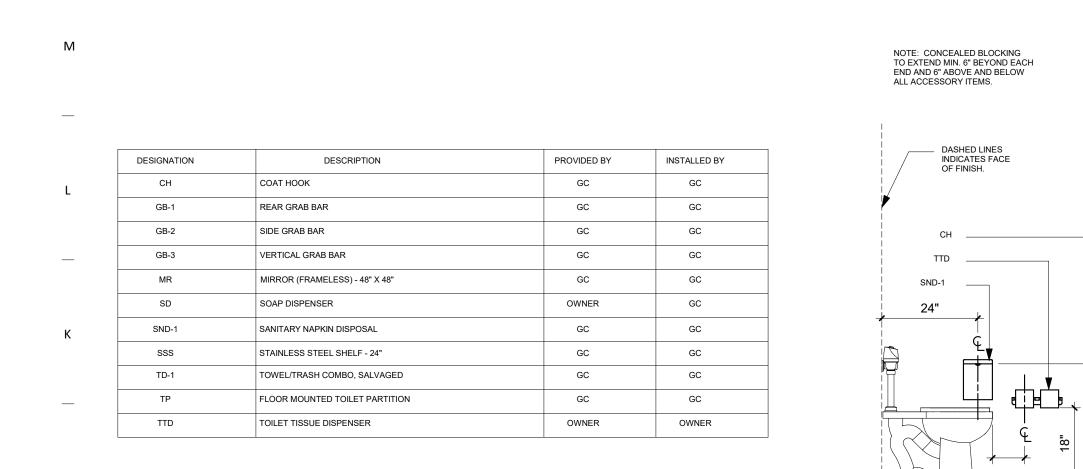
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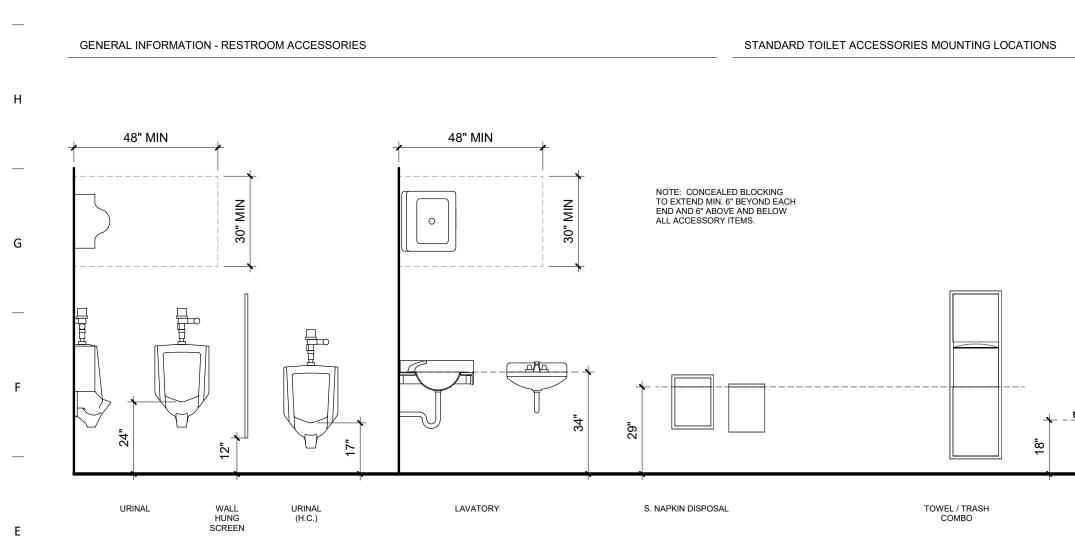


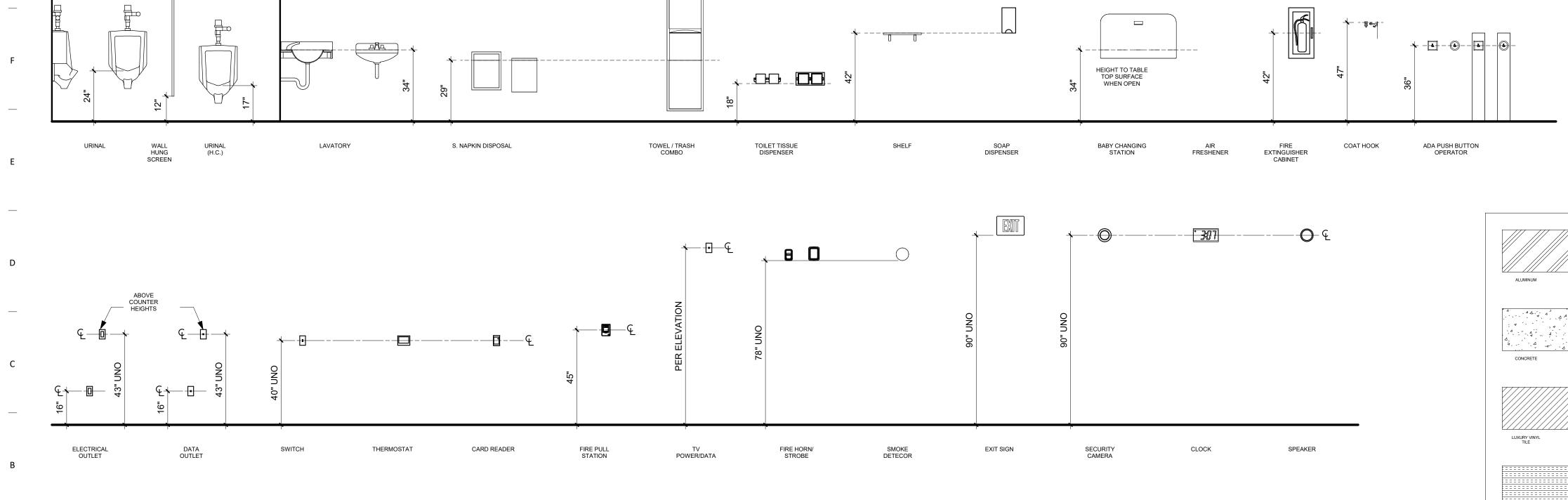


#### STEEL FRAMED PARTITION □ A1

NON RATED / NON-LOAD BEARING SMOKE RATED / NON-LOAD BEA	ARING
STUD UL DESIGN STUD UL DESIGN WIDTH SIZE NUMBER WIDTH SIZE NUMBER	
P A1 4 7/8" 3 5/8" N/A A1 4 7/8" 3 5/8" U465	
A1 7 1/4" 6" N/A A1 7 1/4" 6" U465 d s	

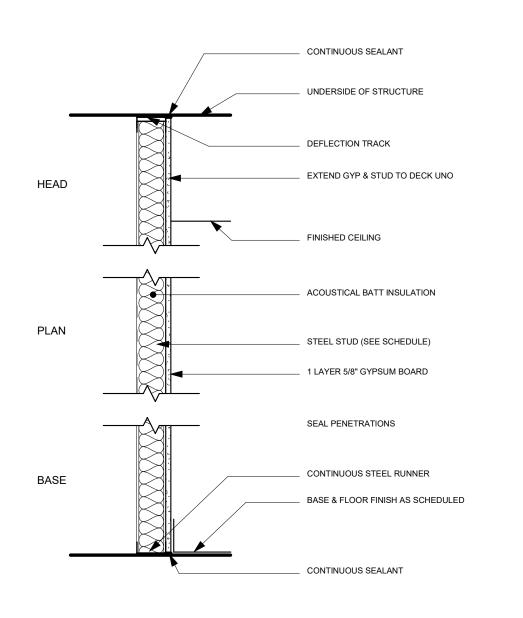






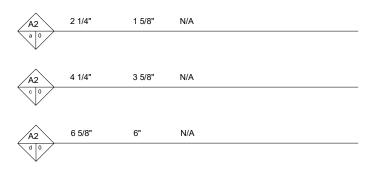
GENERAL INFORMATION - STANDARD MOUNTING HEIGHTS Α

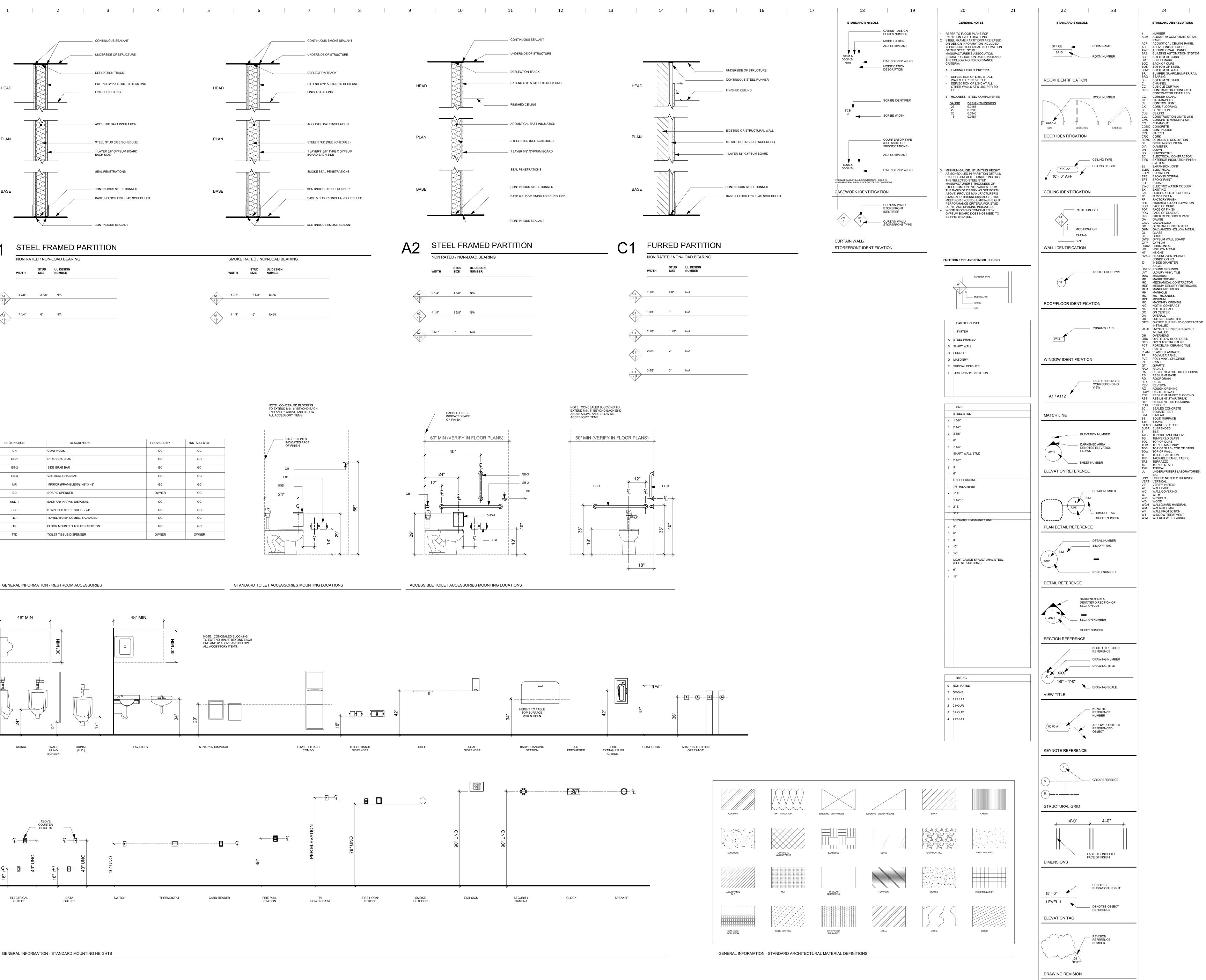
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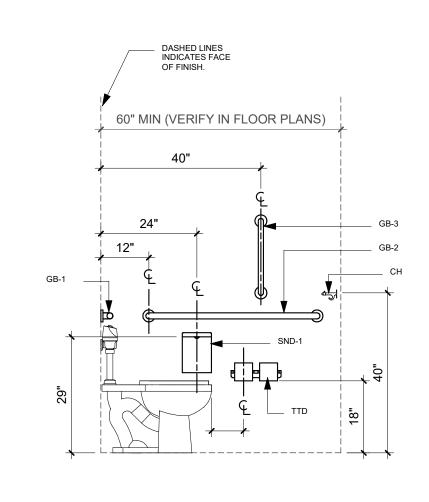
#### STEEL FRAMED PARTITION A2

NON RATED / NON-LOAD BEARING STUD UL DESIGN WIDTH SIZE NUMBER UL DESIGN \_\_\_\_\_



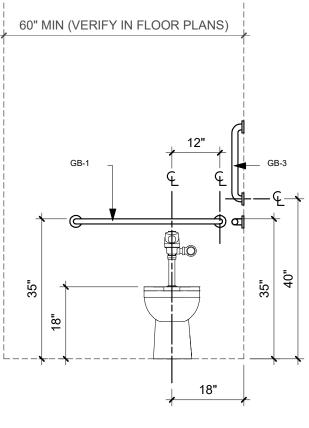


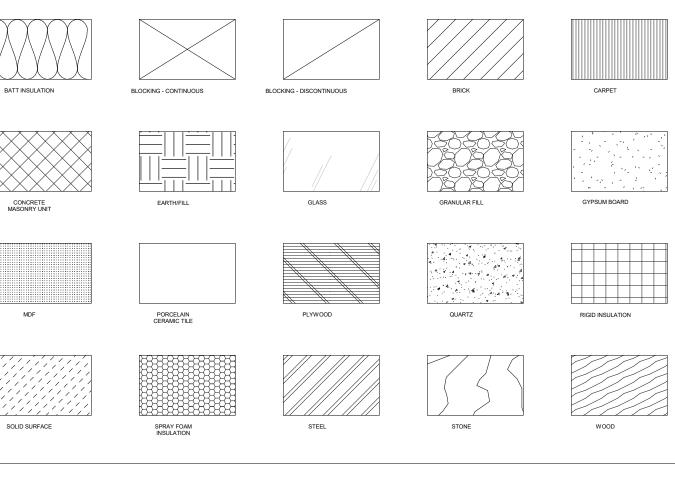
	NON RAT	FED / NON	I-LOAD BEARING
	WIDTH	STUD SIZE	UL DESIGN NUMBER
C1	1 1/2"	7/8"	N/A
j 0			
	1 5/8"	1"	N/A
	2 1/8"	1 1/2"	N/A
$\sim$			
	2 5/8"	2"	N/A
	3 5/8"	3"	N/A



ACCESSIBLE TOILET ACCESSORIES MOUNTING LOCATIONS

#### NOTE: CONCEALED BLOCKING TO EXTEND MIN. 6" BEYOND EACH END AND 6" ABOVE AND BELOW ALL





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24

CHANNEL CUBICLE CURTAIN

ON CENTER

TONGUE AND GROOV

TEMPERED GLASS

TOP OF MASONRY

INFORMATION Sheet Number

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				INTERIOR FINISH SI	PECIFICATIO	N				
					1.					
				ACOUSTIC CEILING PANE	1.2)					
				MANUFACTURER: STYLE: EDGE DETAIL:	ARMSTRONG ULTIMA HUMIG BEVELED TEGL					
				COLOR: SIZE:	WHITE 24" X 24"					
				grid: Grid Color:	9/16 WHITE					
				BASE: RB-1						
				MANUFACTURER: STYLE:	TARKETT TRAD 4" COVE					
				COLOR: APPLICATION:	20 CHARCOAL WALL BASE	WG				
				CARPET:						
				<u>CPT-1</u> MANUFACTURER: STYLE:	MOHAWK REFINED PASS	BT582				
				COLOR: SIZE: INSTALLATION:	DAKOTA 989 24" X 24" ASHLAR PATTE	RN				
				APPLICATION:	OPEN OFFICES		I			
				CORNER GUARD:						
				<u>CG-1</u> MANUFACTURER: STYLE:	INPRO STAINLESS STE	FL AS SPECIE	IED IN SECTIO	N 10 26 00		
				SIZE: INSTALLATION:	2" WINGS 4' HE REFER TO FLO	IGHT		10 20 00		
				COUNTERS / LAVATORIES	<u>s:</u>					
				<u>SS-1</u> MANUFACTURER: COLOR:	STARON ASPEN ALDER	AA625				
				SIZE: APPLICATION:	1/2" COUNTERTOPS	S AT RESTROO	MS,			
				<u>SS-2</u>	KITCHENETTE,					
				MANUFACTURER: COLOR: APPLICATION:	CORIAN CAMEO WHITE INTEGRAL BOW					
				GROUT:						
				<u>GT-1</u> MANUFACTURER:	BOSTIK					
				COLOR: APPLICATION:	DELOREAN GR TO BE USED W					
				PAINT/ EPOXY PAINT:						
				PT-1/EPT-1 MANUFACTURER: COLOR:	SHERWIN WILL SW 7029 AGRE					
				FINISH: APPLICATION:	EGGSHELL PT-1 TYP. FIELD EPT-1 TYP. RES		PAINT			
				<u>PT-2/ EPT-2</u> MANUFACTURER:	SHERWIN WILL	IAMS				
				Color: Finish: Application:	SW 6258 TRICO EGGSHELL EPT-2 HOLLOW		RS AND FRAME	S		
				<u>PT-3</u> MANUFACTURER: COLOR:	SHERWIN WILL SW7006 EXTRA					
				FINISH: APPLICATION:	FLAT GYPSUM CEILIN					
				<u>PT-4</u> MANUFACTURER:	SHERWIN WILL					
				COLOR: FINISH: APPLICATION:	SW 9142 MOSC EGGSHELL ACCENT PAINT	OPEN OFFICE				
				<u>EPT-5</u>	HEARING ROOI	MS				
				MANUFACTURER: COLOR: FINISH:	SHERWIN WILL MATCH EXISTIN EGGSHELL		XTERIOR			
				APPLICATION:	EXTERIOR FAC	E OF DOOR PA	ANEL AND FRAI	ME		
				PLASTIC LAMINATE:						
				PLAM-1 MANUFACTURER: TYPE:	PANOLAM BY N HPL					
				COLOR: FINISH: APPLICATION:	CALM DISTINCT ARP (T-) CASEWORK AT		E, DNR LAB			
				TILE:	& LOBBY COUN		-			
				FIELD TILE (T-1)						
				MANUFACTURER: TILE COLLECTION: COLOR:	ANATOLIA FORM ICE					
				SIZE: FINISH:	8"x8" MATTE/NATURA	AL				
				ACCENT TILE (T-2) MANUFACTURER: TILE COLLECTION:	ANATOLIA GRAPHITE					
				COLOR: SIZE:	ICE 8"x8" GT-2					
				GROUT: FINISH:	MATTE/NATURA	AL				
				TOILET PARTITIONS: TP-1						
				MANUFACTURER: PRODUCT: MOUNTING:	PANOLAM BY N THICKLAM HIGH FLOOR ANCHO	H PRESSURE L		GAP FREE		
				THICKNESS: COLOR: FINISH:	1" CALM DISTINCT ARP (T-)			· <b>-</b>		
				WINDOW TREATMENT:	X: /					
				WT-1 MANUFACTURER:	LUTRON					
				SYSTEM: SHADE CLOTH:	MANUAL ROLLE MERMET E-SCE					
				COLOR: OPENNESS FACTOR:	WHITE/PEARL 3%					
				<u>WD-1:</u> WD-1						
				MANUFACTURER: WOOD: COLOR:	VT INDUSTRIES HONDURAS MA TIMBER					
				Color: Finish: Application:	TIMBER TO MATCH EXIS WOOD DOORS					

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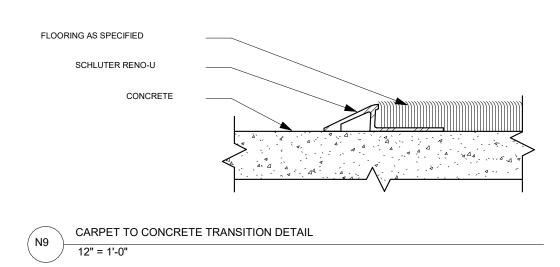
	9   10	11	1	12		13	14	15	
ROOM FINISH SCHEDULE									
ROOM FLOOR WALL FINISH									
NUMBER	ROOM NAME	FINISH	BASE	NORTH	EAST	SOUTH	WEST	CEILING FINISH	REMARKS
003a	ELECTRIC	EXIST.	EXIST./RB-1	PT-1	EXIST.	EXIST.	EXIST./PT-1	EXIST.	1
150	RECEPTION	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	
152	LOBBY	SC-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	
B102	CORRIDOR	EXIST./SC-2	EXIST./RB-1	EXIST./PT-1	PT-1	EXIST./PT-1	EXIST./PT-1	EXIST./ACP-1	1, 2
B103	CORRIDOR	SC-2	RB-1	PT-1	PT-1	PT-1	PT-1	EXIST./ACP-1/PT-3	
B104	CORRIDOR	EXIST.	EXIST./RB-1	EXIST./PT-1	EXIST.	EXIST.	EXIST.	EXIST./ACP-1	1, 2
B119	SPRINKLER RISER	EXIST.	EXIST./RB-1	EXIST.	EXIST.	EXIST./PT-1	EXIST.	EXIST.	
B121	DNR LAB	SC-1	RB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACP-1	
B123	WOMENS	T-1	T-1	T-1/T-2/EPT-1	T-1/T-2/EPT-1	T-1/T-2/EPT-1	T-1/T-2/EPT-1	ACP-1	1
B124	MENS	T-1	T-1	T-1/T-2/EPT-1	T-1/T-2/EPT-1	T-1/T-2/EPT-1	T-1/T-2/EPT-1	ACP-1	1
B125	STORAGE	SC-1	RB-1	PT-1	PT-1	PT-1	PT-1	OTS	
B126	RECEIVING/STORAGE ROOM	EXIST.	EXIST./RB-1	PT-1	EXIST.	EXIST.	EXIST.	EXIST./ACP-1	
B140	HEARING ROOM	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-4	ACP-1	
B142	HEARING ROOM	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-4	ACP-1	
B144	STORAGE	SC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	
B146	OFFICE	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	
B148	STORAGE	EXIST.	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	
B150	ALJ OFFICE	CPT-1	RB-1	PT-1	PT-1/PT-4	PT-4	PT-1	ACP-1	1
B152	OFFICE	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	
B160	WRKM. COMP. OFFICE	CPT-1	RB-1	PT-1/PT-4	PT-1	PT-1	PT-1/PT-4	EXIST./ACP-1	1
B162	STORAGE	EXIST.	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	
B164	STORAGE	EXIST.	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	

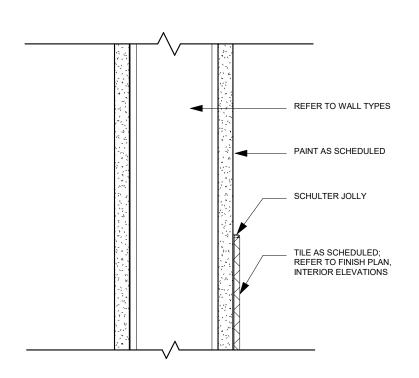
ROOM FINISH SCHEDULE REMARKS:

7 8

MULTIPLE WALL FINISHES - REFER TO FLOOR PLAN AND ELEVATIONS FOR LOCATIONS.
 MULTIPLE WALL BASE FINISHES REFER TO ELEVATIONS FOR LOCATIONS.

#### NOTE: EXISTING CONCRETE, PROVIDE SEALED CONCRETE FINISH EXISTING CONCRETE, PROVIDE TRAFFIC COATING FINISH SC-1: SC-2:





 J9
 SCHLUTER TRIM

 3" = 1'-0"
 3"

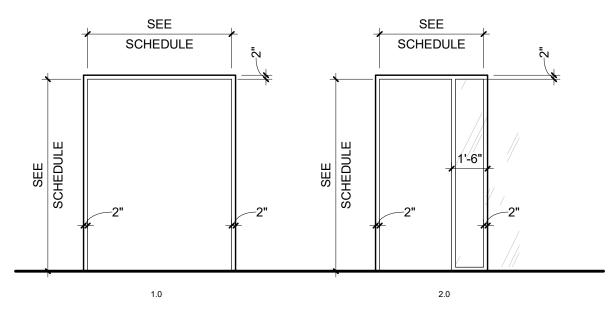
[													
	DOOR SCHEDULE												
			PA	NEL				FRAME					
DOOR NUMBER	PANEL QUANTITY	PANEL TYPE	WIDTH	HEIGHT	PANEL MATERIAL	PANEL FINISH	FRAME TYPE	MATERIAL	FINISH	FIRE RATING	REMARKS	HARDWARE SET	NOTES
152	1	HG	3'-0"	8'-0"	WD	WD-1	1.0	НМ	EPT-2	-	1		REMOTE RELEASE
B102-C	2	EXIST.	3'-0"	8'-0"	НМ	EPT-2	EXIST.	НМ	EPT-2	-	2		
B103	2	E NL	3'-0"	8'-0"	HM	EPT-2	1.0	НМ	EPT-2	-	1,3		EX. DOOR 02
B103-C	1	NL	3'-0"	8'-0"	WD	WD-1	1.0	НМ	EPT-2	-	1		
B103-D	1	NL	3'-0"	8'-0"	WD	WD-1	1.0	НМ	EPT-2	-			
B104	2	E NL	3'-0"	8'-0"	HM	EPT-2	1.0	НМ	EPT-2	-	1,3		EX. DOOR 04
B119	1	EF	3'-0"	7'-0"	HM	EPT-2	1.0	НМ	EPT-2	-	3		EX. DOOR 08
B121	1	E NL	3'-0"	8'-0"	HM	EPT-2	1.0	НМ	EPT-2	-	3		EX. DOOR 06
B123	1	EF	3'-0"	8'-0"	HM	EPT-2	1.0	НМ	EPT-2	-	3		EX. DOOR 09
B124	1	EF	3'-0"	8'-0"	HM	EPT-2	1.0	НМ	EPT-2	-	3		EX. DOOR 10
B125	2	E NL	3'-0"	8'-0"	HM	EPT-2	1.0	НМ	EPT-2	-	3		EX. DOOR 12
B125-D	1	EXIST.	3'-0"	7'-0"	HM	EPT-5	1.0	НМ	EPT-5	-	4		
B126-C	1	FG	3'-0"	7'-0"	ALUM	ANOD	1.0	ALUM	ANOD	-	1		
B130-A	2	EXIST.	3'-0"	8'-0"	HM	EPT-2	EXIST.	НМ	EPT-2	-	1, 4, 5		EX. DOOR & HDW
B130-B	1	NL	3'-0"	8'-0"	WD	WD-1	1.0	НМ	EPT-2	-	1		
B144	1	E NL	3'-0"	8'-0"	HM	EPT-2	1.0	НМ	EPT-2	-	3		EX. DOOR 03
B146	1	F	3'-0"	7'-0"	WD	WD-1	2.0	НМ	EPT-2	-			
B152	1	F	3'-0"	7'-0"	WD	WD-1	2.0	НМ	EPT-2	-			
B160	1	NL	3'-0"	8'-0"	WD	WD-1	1.0	HM	EPT-2	-	1		
B160-A	1	NL	3'-0"	8'-0"	WD	WD-1	1.0	НМ	EPT-2	-	1		
B160-B	2	EXIST.	3'-0"	8'-0"	HM	EPT-2	EXIST.	HM	EPT-2	-	4		EX. DOOR & HDW
B160-C	1	FL	3'-0"	8'-0"	WD	WD-1	1.0	НМ	EPT-2	-			
B162	1	E NL	3'-0"	7'-0"	НМ	EPT-2	1.0	НМ	EPT-2	-	3		EX. DOOR 18
B164	1	E NL	3'-0"	7'-0"	НМ	EPT-2	1.0	HM	EPT-2	-			

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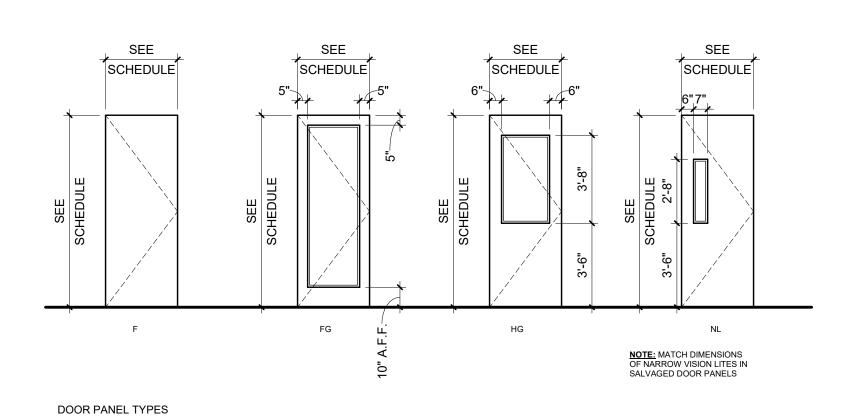
B164 Grand total: 24

DOOR SCHEDULE REMARKS:

## 1. CARD READER 2. EXISTING DOOR TO RECEIVE NEW HARDWARE 2. EXISTING DOOR TO RECEIVE NEW FRAME AT NEW LOCATION 3. REINSTALL SALVAGED HM DOOR PANEL IN NEW FRAME AT NEW LOCATION 4. EXISTING HARDWARE TO REMAIN. 5. REPROGRAM DOOR TO ACCEPT NEW CARD READER. COORDINATE W/ OWNER.



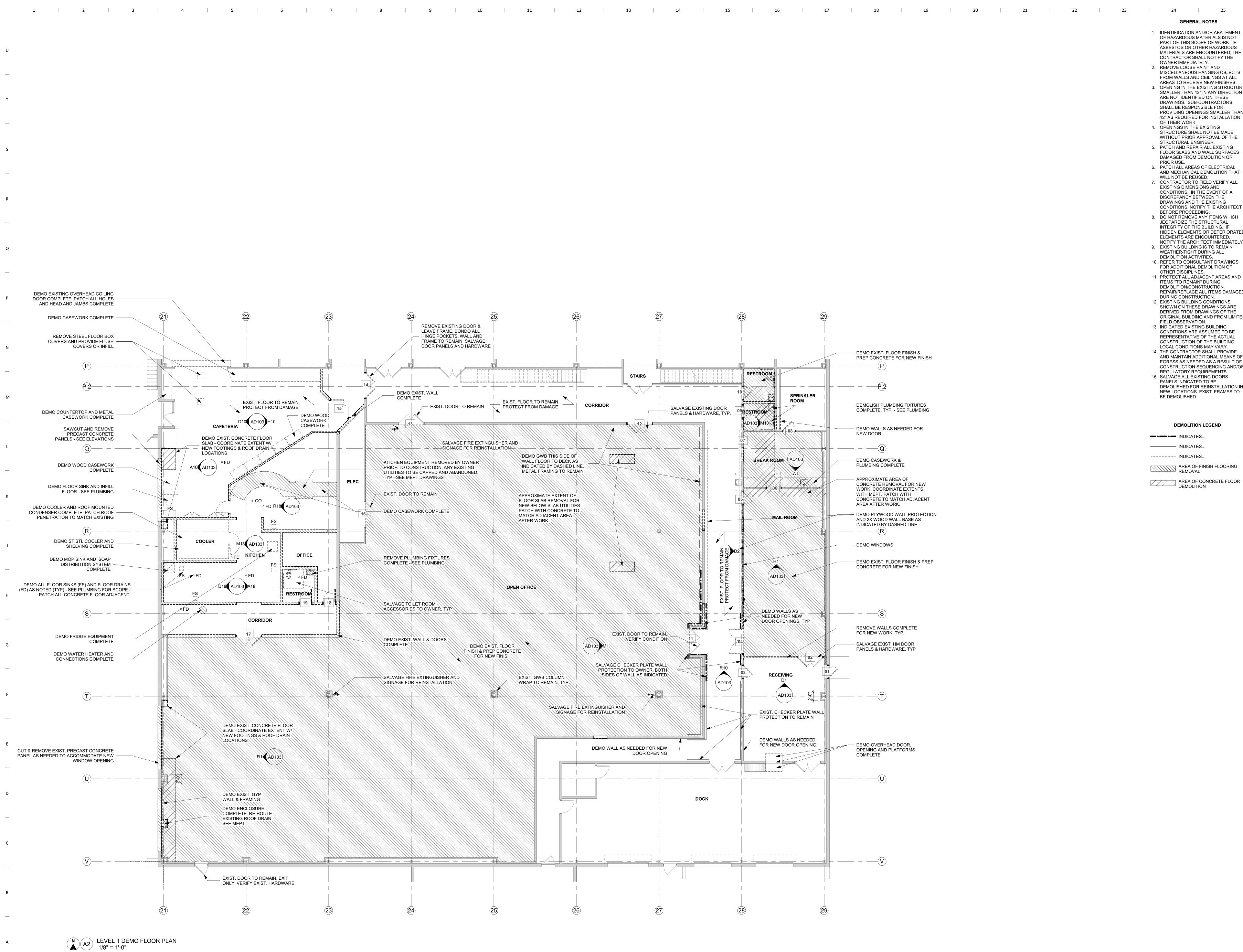
DOOR FRAME ELEVATIONS



	24		25	
	DOOR & FRAME	NOTES		O P  N
TC AF	LVAGE HM DOOR F DE DEMOLISHED, CHITECT IF DOORS DOD ENOUGH CONI	TYP. NOTIFY S ARE NOT IN		ARCHITECTS
RE SA 2. DI DE	EINSTALLATION. DE ALVAGED DOOR PAI SPOSE OF HM DOO EMOLISHED, TYP.	LIVER UNUSED NELS TO OWNER. R FRAMES TO BE		100 Court Ave., Suite 100
FC D( E)	ROVIDE ALL NEW HI OR REINSTALLATION DORS. FIELD VERIFY (ISTING DOOR HARI	NOF SALVAGED		Des Moines, IA 50309 P: 515-309-0722 www.opnarchitects.com
4. PF FC SA	AME PREP. REPARE SALVAGED OR NEW PAINT, BON ND SCRATCHES SM	IDO DENTS AND		All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by
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				Owner STATE OF IOWA - DEPARTMENT OF
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				DES MOINES, IA 50319
				Project 9411.00 - DAS 6200 PARK ALJ -
				6200 PARK AVE
				DES MOINES, IA 50321
				Construction Manager
				DCI GROUP 220 SE 6TH ST - SUITE 200 DES MOINES, IA 50309
				P. 515-244-5043
				Civil Engineer
				2400 86TH ST - UNIT 12 DES MOINES, IA 50322
	FINISH NO	TES		P. 515-276-7084
OL	CHLUTER EDGE TRI	JOINTS TO OCCUR		Structural Engineer
LII B. SC TF	UPPER MOST CON NE CHLUTER AT TOP OI CANSITION TO GYPS ENTER WALL TILE JO	F TILE TO SUM WALL BOARD		4717 GRAND AVE DES MOINES, IA 50312 P. 515-277-0275
OF D. AL	F WALL IGN ALL WALL TILE ITH FLOOR TILE GR	GROUT JOINTS		Mechanical Engineer
				KCL ENGINEERING 300 4TH ST
				WEST DES MOINES, IA 50265 P. 515-724-7938
				Electrical Engineer
				KCL ENGINEERING 300 4TH ST
				WEST DES MOINES, IA 50265 P. 515-724-7938
STAN	DARD ABBREVIATIO	<u>DNS</u>		
ACP CG	ACOUSTIC CE CORNER GUA			
CPT EPT GT PNT	CARPET EPOXY PAINT GROUT PAINT			
PLAM RB SC SS TERR	PLASTIC LAMI RESILIENT BA SEALED CONO SOLID SURFA TERRAZZO	SE CRETE		
T TP VF WD	TILE TOILET PARTI VINYL FLOORI WOOD			
WT	WINDOW TRE	ATMENT		
				Key Plan
				Revision Description Dat
				OPN Project No.
				24816000
				Sheet Issue Date 100% CONSTRUCTION 08/16/2024
				DRAWING SET
				DOOR AND FINISH INFORMATION

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#### **GENERAL NOTES**

1. IDENTIFICATION AND/OR ABATEMENT OF HAZARDOUS MATERIALS IS NOT PART OF THIS SCOPE OF WORK. IF ASBESTOS OR OTHER HAZARDOUS MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY.

25

MISCELLANEOUS HANGING OBJECTS FROM WALLS AND CEILINGS AT ALL AREAS TO RECEIVE NEW FINISHES. 3. OPENING IN THE EXISTING STRUCTURE SMALLER THAN 12" IN ANY DIRECTION ARE NOT IDENTIFIED ON THESE DRAWINGS. SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR PROVIDING OPENINGS SMALLER THAN

4. OPENINGS IN THE EXISTING STRUCTURE SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. 5. PATCH AND REPAIR ALL EXISTING FLOOR SLABS AND WALL SURFACES DAMAGED FROM DEMOLITION OR

6. PATCH ALL AREAS OF ELECTRICAL AND MECHANICAL DEMOLITION THAT 7. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS AND

DISCREPANCY BETWEEN THE DRAWINGS AND THE EXISTING CONDITIONS, NOTIFY THE ARCHITECT BEFORE PROCEEDING. 8. DO NOT REMOVE ANY ITEMS WHICH JEOPARDIZE THE STRUCTURAL

INTEGRITY OF THE BUILDING. IF HIDDEN ELEMENTS OR DETERIORATED ELEMENTS ARE ENCOUNTERED. NOTIFY THE ARCHITECT IMMEDIATELY 9. EXISTING BUILDING IS TO REMAIN WEATHER-TIGHT DURING ALL DEMOLITION ACTIVITIES.

FOR ADDITIONAL DEMOLITION OF 11. PROTECT ALL ADJACENT AREAS AND

DEMOLITION/CONSTRUCTION. REPAIR/REPLACE ALL ITEMS DAMAGED DURING CONSTRUCTION. 12. EXISTING BUILDING CONDITIONS SHOWN ON THESE DRAWINGS ARE

DERIVED FROM DRAWINGS OF THE ORIGINAL BUILDING AND FROM LIMITED 13. INDICATED EXISTING BUILDING CONDITIONS ARE ASSUMED TO BE

REPRESENTATIVE OF THE ACTUAL CONSTRUCTION OF THE BUILDING. LOCAL CONDITIONS MAY VARY. 14. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADDITIONAL MEANS OF EGRESS AS NEEDED AS A RESULT OF

CONSTRUCTION SEQUENCING AND/OR REGULATORY REQUIREMENTS. 15. SALVAGE ALL EXISTING DOORS PANELS INDICATED TO BE DEMOLISHED FOR REINSTALLATION IN NEW LOCATIONS. EXIST. FRAMES TO

ON LEGEND

TES... OF FINISH FLOORING /AL

OF CONCRETE FLOOR ITION



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Owner **STATE OF IOWA - DEPARTMENT OF** ADMINISTRATIVE SERVICES 1305 E WALNUT ST DES MOINES, IA 50319

Project 9411.00 - DAS 6200 PARK ALJ -WORKMAN'S COMP RENOVATION 6200 PARK AVE DES MOINES, IA 50321

Construction Manager DCI GROUP 220 SE 6TH ST - SUITE 200 DES MOINES, IA 50309 P. 515-244-5043

Civil Engineer CIVIL ENGINEERING CONSULTANTS 2400 86TH ST - UNIT 12 DES MOINES, IA 50322 P. 515-276-7084

Structural Engineer RAKER RHODES ENGINEERING 4717 GRAND AVE DES MOINES, IA 50312 P. 515-277-0275

Mechanical Engineer KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 50265 P. 515-724-7938

Electrical Engineer KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 50265 P. 515-724-7938

Key Plan

Revision Description

OPN Project No. 24816000

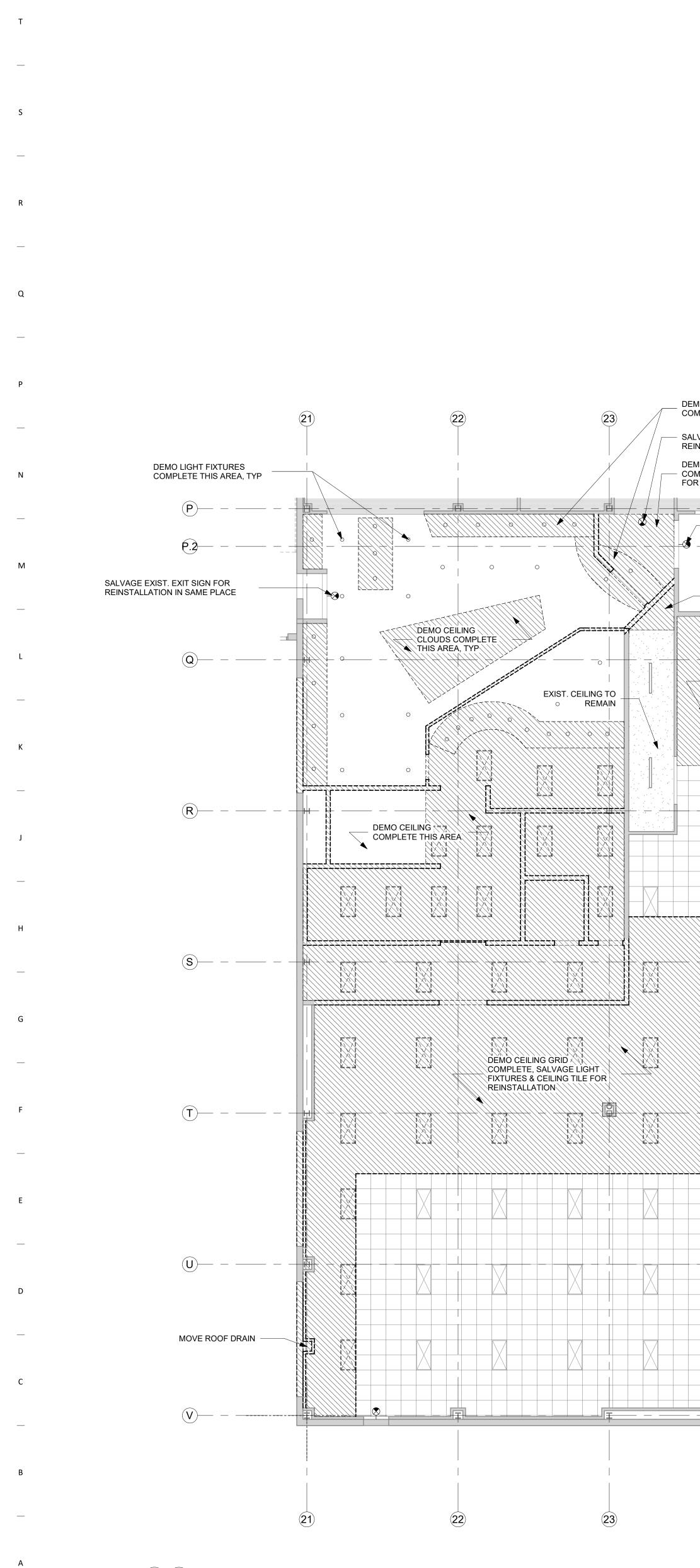
Sheet Issue Date 100% CONSTRUCTION 08/16/2024 DRAWING SET Sheet Name DEMO FLOOR PLANS

**AD101** 

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DEMO CEI COMPLET FIXTURES	H GWB ND FRAMING ULING GRID E, SALVAGE LIGHT & CEILING TILE STALLATION								COMPLETE - SALVAGE EILING TILE FOR REUSE
								DEMO CEILING GRID	R
	AF		RDINATE TO		CEILING GRID ETE, SALVAGE LIG ES & CEILING TILE ALLATION			SALVAGE CEILING TILE FOR REINSTALLATION AT NEW FIXTURE LOCATIONS, TYP	S
	EXIS	CCOMMODATE NEW						DEMO CEILING GRID	T
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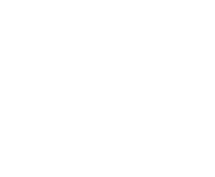




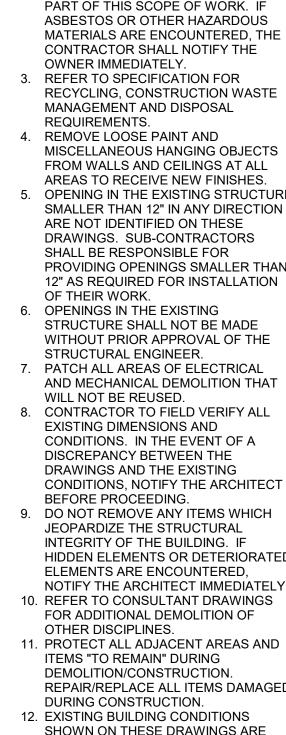












OTHERWISE

#### GENERAL NOTES

1. REMOVE AND SALVAGE ALL CEILING TILE AND LIGHTING FIXTURES FOR REINSTALLATION UNLESS NOTED

2. IDENTIFICATION AND/OR ABATEMENT OF HAZARDOUS MATERIALS IS NOT PART OF THIS SCOPE OF WORK. IF ASBESTOS OR OTHER HAZARDOUS MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE

RECYCLING, CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

MISCELLANEOUS HANGING OBJECTS FROM WALLS AND CEILINGS AT ALL AREAS TO RECEIVE NEW FINISHES. 5. OPENING IN THE EXISTING STRUCTURE SMALLER THAN 12" IN ANY DIRECTION ARE NOT IDENTIFIED ON THESE DRAWINGS. SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR PROVIDING OPENINGS SMALLER THAN

STRUCTURE SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF THE 7. PATCH ALL AREAS OF ELECTRICAL

8. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. IN THE EVENT OF A DISCREPANCY BETWEEN THE

CONDITIONS, NOTIFY THE ARCHITECT 9. DO NOT REMOVE ANY ITEMS WHICH JEOPARDIZE THE STRUCTURAL

INTEGRITY OF THE BUILDING. IF HIDDEN ELEMENTS OR DETERIORATED ELEMENTS ARE ENCOUNTERED. NOTIFY THE ARCHITECT IMMEDIATELY 10. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL DEMOLITION OF

11. PROTECT ALL ADJACENT AREAS AND ITEMS "TO REMAIN" DURING DEMOLITION/CONSTRUCTION. REPAIR/REPLACE ALL ITEMS DAMAGED

12. EXISTING BUILDING CONDITIONS SHOWN ON THESE DRAWINGS ARE DERIVED FROM DRAWINGS OF THE ORIGINAL BUILDING AND FROM LIMITED

FIELD OBSERVATION. 13. INDICATED EXISTING BUILDING CONDITIONS ARE ASSUMED TO BE REPRESENTATIVE OF THE ACTUAL CONSTRUCTION OF THE BUILDING. LOCAL CONDITIONS MAY VARY



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Key Plan

Revision Descrip

OPN Project No. 24816000

Sheet Issue Date 100% CONSTRUCTION 08/16/2024 DRAWING SET Sheet Name DEMO REFLECTED CEILING PLANS Sheet Number





(R1) DEMO PHOTO 1



(M1) DEMO PHOTO 2





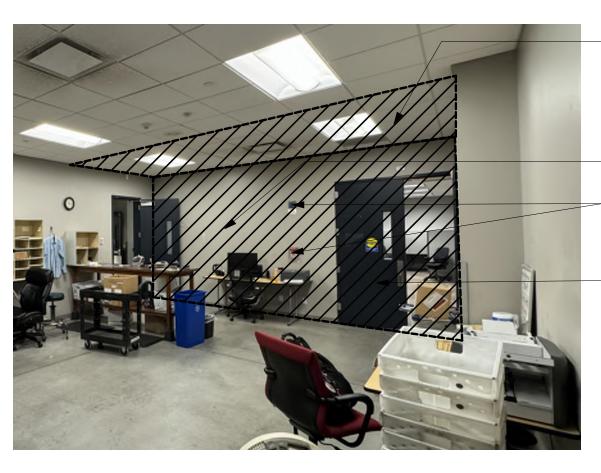
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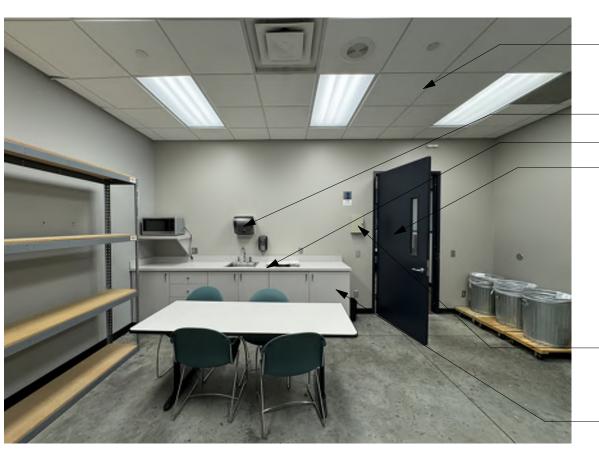
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DEMO PHOTO 4



EXIST. ACP CEILING PANELS AND GRID REMAIN - SEE RCP SALVAGE ALL REMOVED TILES FOR REUSE AS NOTED. PROVIDE EXCESS TILES TO OWNER. - EXIST. DOOR TO REMAIN

REMOVE GWB AS NECESSARY FOR MODIFICATION OF EXTERIOR PRECAST WALL PANELS AND WINDOW INSTALLATION DEMO DRYWALL ENCLOSER COMPLETE. RE-ROUTE EXISTING STORM DRAIN AS

SHOWN ON DRAWINGS.

DEMO EXIST. FLOOR FINISH COMPLETE & PREP CONCRETE FOR NEW FINISH

DEMO PORTION OF CEILING GRID COMPLETE, - SALVAGE LIGHT FIXTURES & CEILING TILE FOR REINSTALLATION - SEE PLANS. - EXIST. DOOR & ADA OPERATOR TO REMAIN SALVAGE AND REINSTALL ADA OPERATOR ON NEW WALL. SALVAGE CHECKER PLATE WALL PROTECTION TO OWNER.

SALVAGE FIRE EXTINGUISHER AND SIGNAGE FOR REINSTALLATION

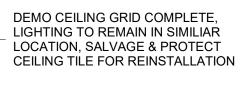
DEMO GWB THIS SIDE OF WALL - FLOOR TO DECK AS INDICATED ON PLANS, METAL FRAMING TO REMAIN DEMO EXIST. FLOOR FINISH COMPLETE & PREP CONCRETE FOR NEW FINISH

DEMO CEILING GRID COMPLETE, LIGHTING TO REMAIN IN SIMILIAR LOCATION, SALVAGE & PROTECT CEILING TILE FOR REINSTALLATION

- DEMO WINDOWS COMPLETE

- DEMO EXIST WALL BASE

DEMO CPT COMPLETE, PREP FLOOR FOR NEW FINISH



DEMO EXIST. WALL DEMO MAIL ROOM ISOLATION SYSTEM - COMPLETE. PROVIDE STAINLESS STEEL COVERS AT ALL ABANDONED BOXES.

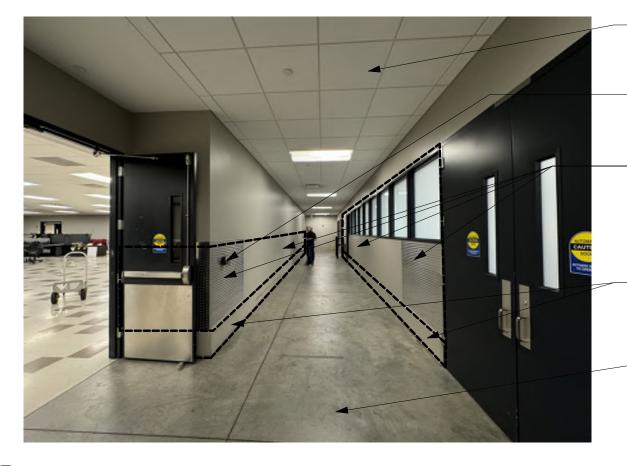
SALVAGE EXIST. DOOR, TYP

SALVAGE PAPER & SOAP DISPENSER TO OWNER - DEMO EXIST.CASEWORK & PLUMBING COMPLETE - SALVAGE EXIST. DOOR

SALVAGE KEY CABINET TO OWNER

- DEMO CASEWORK COMPLETE

(A1) DEMO PHOTO 5



 EXIST ACP TO REMAIN, SALVAGE LIGHT
 FIXTURES FOR REINSTALLATION - SEE RCP SALVAGE ACTUATOR AND REINSTALL AT SAME LOCATION AFTER NEW FINISHES IN HALLWAY. - DEMO PLYWOOD WALL PANELS & CHECKER PLATE WALL PROTECTION COMPELTE, METAL FRAMING TO REMAIN - SEE DEMOLTION PLAN - DEMO 2x WOOD WALL BASE EXIST. FLOOR TO REMAIN, PROTECT FROM DAMAGE

RESTROOMS - SEE PLANS.

SALVAGE MIRROR TO OWNER

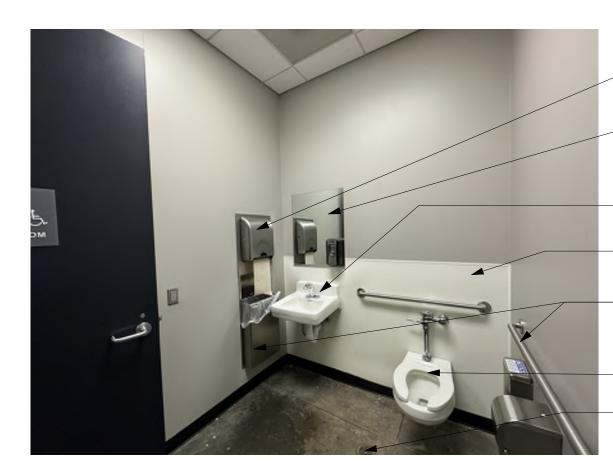
REMOVE PLUMBING FIXTURES

FLOOR DRAIN - SEE PLUMBING

COMPLETE - SEE PLUMBING

SALVAGE TOLIET ROOM ACCESSORIES TO OWNER, TYP

R10 DEMO PHOTO 6



M10 DEMO PHOTO 7



(H10) DEMO PHOTO 8

DEMO PHOTO 9

· · ·	DEMO CEILING CLOUD & HARDWARE COMPLETE.
E	EXIST. WALL & DOOR TO REMAIN
	SALVAGE PAPER DISPENSER TO OW
	DEMO COUNTERTOP AND METAL CASEWORK COMPLETE
	DEMO OVERHEAD COILING DOOR CO
	REMOVE STEEL FLOOR BOX COVERS AND PROVIDE FLUSH COVERS OR INFILL
and the second	

DEMO CEILINGS COMPLETE - SALVAGE LIGHTING AND CEILING TILE FOR REUSE



DEMO WOOD CASEWORK DEMO FLOOR SINK AND INFILL FLOOR - SEE PLUMBING

- DEMO GWB CEILING

A10 DEMO PHOTO 10

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- DEMO CEILING COMPLETE

SALVAGE PAPER DISPENSER TO OWNER DEMO EXISTING DOOR AND FRAME COMPELTE SALVAGE EXIST. DOOR FOR REUSE. DEMO CASEWORK COMPLETE DEMO EXIST. WALL COMPLETE

#### KITCHEN EQUIPMENT REMOVED BY OWNER PRIOR TO CONSTRUCTION, ANY EXISTING UTILITIES TO BE CAPPED AND ABANDONED, TYP -SEE MEPT DRAWINGS

DEMO METAL WALL PROTECTION

DEMO COOLER WALLS, DOOR,

ROOF CONDENSOR COMPLETE.

PATCH ROOF AT REMOVED

CEILING, DISPLAY AND ASSOCIATED

COMPLETE, TYP

CONNECTION

R18 DEMO PHOTO 11

# SALVAGE RECESSED TRASH AND ELECTRIC - HAND DRYER FOR REINSTALLATION IN NEW

- DEMO FRP WALL PROTECTION COMPLETE, TYP

SALVAGE TOILET FIXTURE AND CARRIER COMPLETE FOR REINSTALLATION IN NEW RESTROOMS - SEE PLANS.

NSER TO OWNER

NG DOOR COMPLETE



(H18) DEMO PHOTO 13



A18 DEMO PHOTO 15



M18 DEMO PHOTO 12

#### DEMO COOLER EQUIPMENT SEE MEPT DRAWINGS FOR UTILITY CONNECTIONS

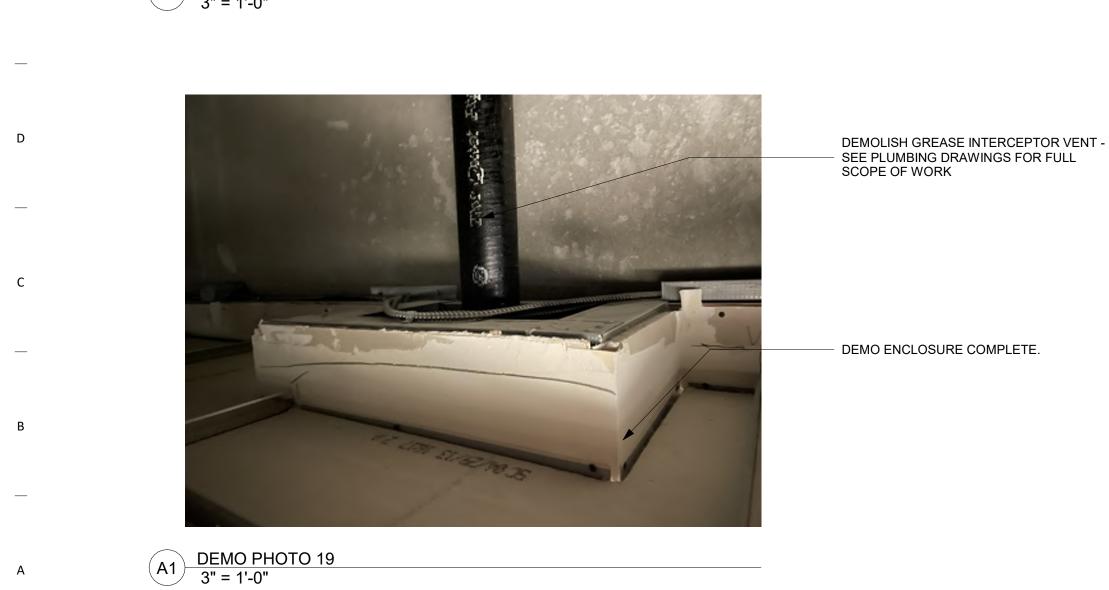
DEMO COOLER WALL PANELS / SYSTEM COMPL DEMO RACKSYSTEM

DEMO FRP WALL PROTECTION COMPLETE, TYP

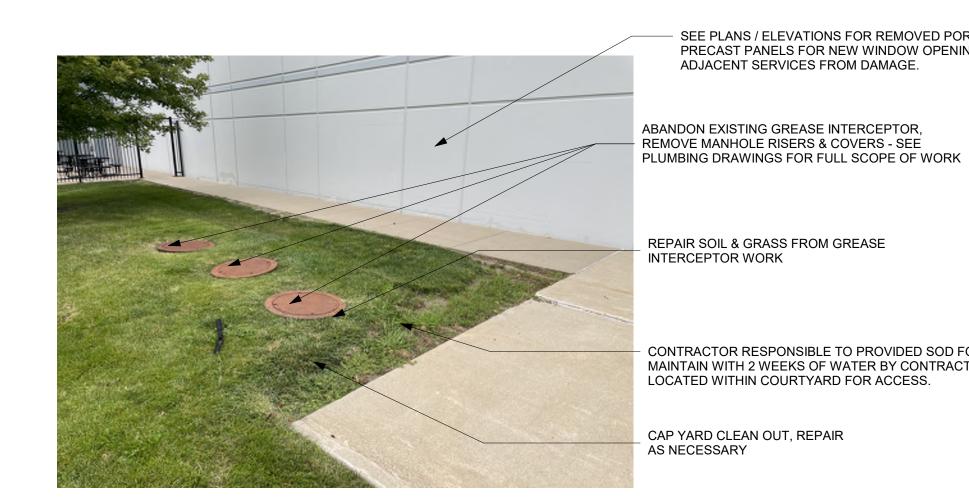
- SHELVING REMOVED BY OTHERS
- EYEWASH SYSTEM REMOVED BY OTHERS DEMO MOP SINK - SEE PLUMBING
- COUNTER AND SINK REMOVED BY OTHERS
- DEMO FLOOR SINK SEE PLUMBING
- EXIST. FLOOR DRAIN SEE PLUMBING
- SHELVING REMOVED BY OTHERS DEMO FRP WALL PROTECTION COMPLETE, TYP
- DEMO PLYWOOD SHEATHING
- COUNTER, SINK AND DISPOSAL REMOVED BY OTHERS

DEMO FLOOR SINK - SEE PLUMBING

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	Key Plan
	Revision Description Date
	OPN Project No. <b>24816000</b>
	Sheet Issue Date 100% CONSTRUCTION 08/16/2024 DRAWING SET Sheet Name
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# E1 DEMO PHOTO 18 3" = 1'-0"



# J1 DEMO PHOTO 17 3" = 1'-0"



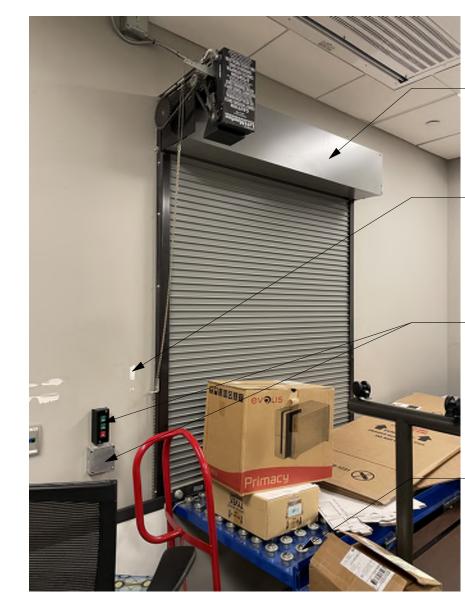
# DEMO CONVEYING PLATFORM COMPLETE,

PATCH FLOORING AT ANCHOR HOLES

- PREP OPENING FOR NEW WALL INFILL

ADJACENT SERVICES FROM DAMAGE.

# P1 DEMO PHOTO 16 3" = 1'-0"



## DEMO CONVEYING PLATFORM - COMPLETE, PATCH FLOORING AT

ANCHOR HOLES

- REPAIR WALL DAMAGE, PREP FOR NEW PAINT FINISH DEMO OVERHEAD DOOR CONTROLS AND - JUNCTION BOX COMPLETE, PROVIDE NEW COVERPLATE AT WALL

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# A10 DEMO PHOTO 23 3" = 1'-0"



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E10 DEMO PHOTO 22 3" = 1'-0"

#### - CONTRACTOR RESPONSIBLE TO PROVIDED SOD FOR PATCHING AND MAINTAIN WITH 2 WEEKS OF WATER BY CONTRACTOR. HOSE BIB IS

# SEE PLANS / ELEVATIONS FOR REMOVED PORTION OF EXISTING PRECAST PANELS FOR NEW WINDOW OPENINGS. PROTECT

J10 DEMO PHOTO 21 3" = 1'-0"

P10 DEMO PHOTO 20 3" = 1'-0"



DEMO DOOR BELL COMPLETE, PATCH DRYWALL. CONTRACTOR TO ASSUME 15 TOTAL LOCATIONS FOR SIMILAR PATCHING.

DEMOLISH SIGN AND INDICATOR COMPLETE,

- (COLORS TO MATCH EXISTING) FOR THESE (3)

\_ DEMOLISH EXISTING DOOR AND FRAME, PREP FOR NEW ALUMINUM ENTRANCE DOOR

DEMOLISH SIDE WALK COMPLETE, PREP FOR NEW CONCRETE - SEE CIVIL DRAWINGS

- EXISTING CONCRETE SIDEWALK TO REMAIN

DEMOLISH SIDEWALK COMPLETE, SEE

CIVIL DRAWINGS FOR SCOPE

PAINT WALL BELOW AND INCLUDING ACCENT STRIPE

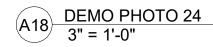
PROVIDE COVER PLATE

PRECAST PANELS.

DEMO OVERHEAD COILING DOOR, PREP OPENING FOR NEW WALL INFILL

COMPLETE - SEE MECHANICAL

DEMO MAIL ROOM ISOLATION SYSTEM



E18 DEMO PHOTO 25 3" = 1'-0"



PAINT WALL BELOW ACCENT STRIPE THIS - SIDE FROM CORNER TO JOINT NEAREST FENCED ENCLOSURE.

AFTER NEW WINDOWS INSTALLED. PAINT FROM BASE TO TOP OF WINODWS / PRECAST JOINT.

PAINT ENTIRE WALL THIS SIDE TO CORNER

SEE PLANS / ELEVATIONS FOR REMOVED PORTION OF EXISTING PRECAST PANELS FOR NEW WINDOW OPENINGS. PROTECT ADJACENT SERVICES FROM DAMAGE.

SALVAGE DRINKING FOUNTAIN FOR REINSTALLATION DEMO HM FRAME & GLAZING

EXIST. BOLLARDS TO REMAIN

PROTECTION, METAL FRAMING

DEMO 2X12 WOOD WALL BASE

SALVAGE HM DOOR

DEMO PLYWOOD WALL

FOR REINSTALLATION

SALVAGE FIRE EXTINGUISHER

COMPLETE

TO REMAIN

COMPLETE

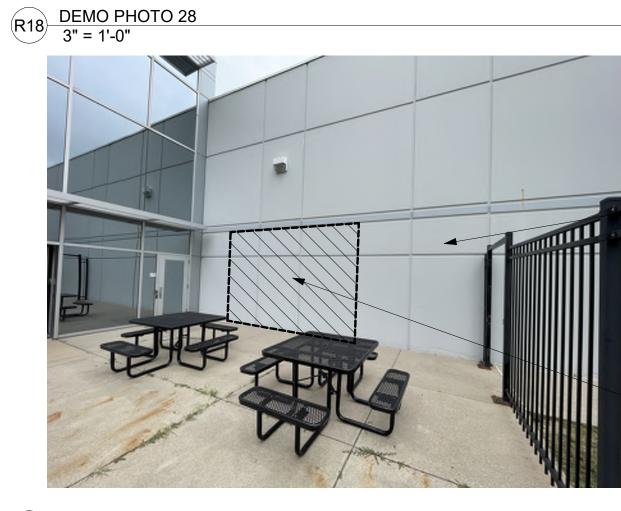
EXIST. SIGNAGE TO REMAIN

J18 DEMO PHOTO 26 3" = 1'-0"



- DEMO ROOF CONDENSOR ASSOCIATED WITH WALK IN COOLER COMPELTE. PATCH ALL ROOF PENTRATIONS.

N18 DEMO PHOTO 27 3" = 1'-0"





APPROXIMATE LOCATIONS OF NEW ROOF MOUNTED RTU ON PREMANUFACTURED CURBS. COORDINATE LOCATIONS WITH EXISTING STRUCTURAL - SEE MECHANICAL. COORDINATE ALL ROOF WORK FOR CUTTING AND PATCHING WITH OWNERS REPRESENTATIVE. PROVIDE CRICKETING ON SIDES OF UNITS AS REQUIRED TO MAINTAIN WATER FLOW TO ROOF DRAINS AROUND UNITS.

- PAINT ENTIRE WALL THIS SIDE TO

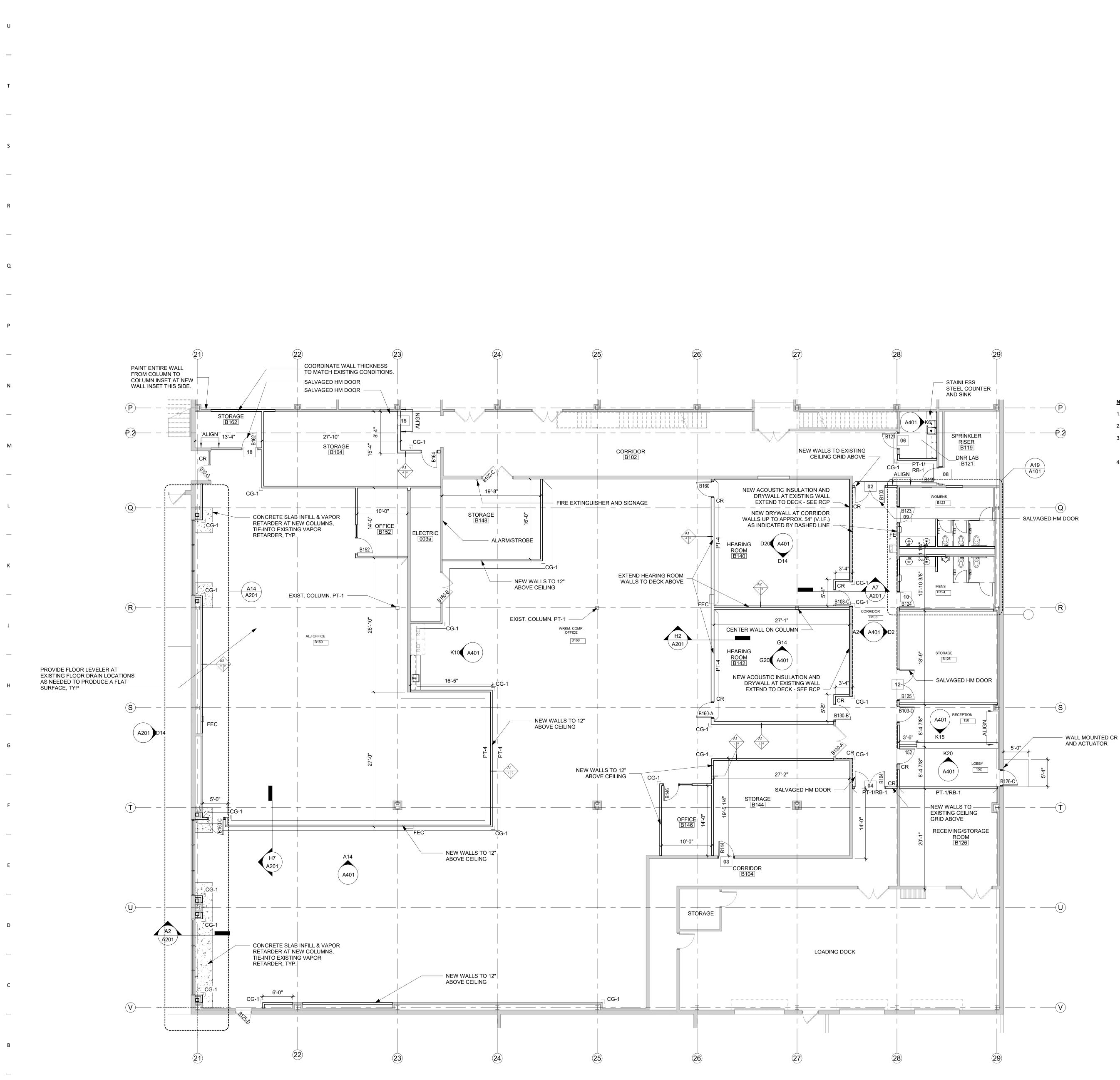
 SEE PLANS / ELEVATIONS FOR REMOVED PORTION OF EXISTING PRECAST PANELS FOR NEW WINDOW OPENINGS. PROTECT ADJACENT SERVICES FROM DAMAGE.

CORNER AFTER NEW WINDOWS INSTALLED. PAINT FROM BASE TO TOP OF WINODWS / PRECAST JOINT.

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Key Plan
Revision Description Date
OPN Project No.
24816000 Sheet Issue Date 100% CONSTRUCTION 08/16/2024 DRAWING SET
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1. OFFICE AND MEETING ROOM WALLS TO BE SOUND RATED, TYP. 2. SEE SHEET A001 FOR ROOM FINISHED, TYP.

- 3. SALVAGED DOORS TO BE REINSTALLED AS APPLICABLE. EXISTING DOOR CONDITIONS AND SALVAGABILITY TO BE EVALUATED BY DESIGN TEAM. 4. ALL NEW WALLS AND FRAMING TO EXTEND TO 12" ABOVE CEILING, U.N.O.

  - SPRINKLER RISER B119 \_\_\_\_
  - B123 B123 /7'-6 1/2" 3'-1" <u>,</u>2" 3'-0" CORRIDOR 3'-6" EQ 3'-1" 3'-1" 3'-8" EQ B103

A401

MENS B124

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7'-7 1/2" VIF

B124

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A19 ENLARGED RESTROOM PLAN 1/4" = 1'-0"

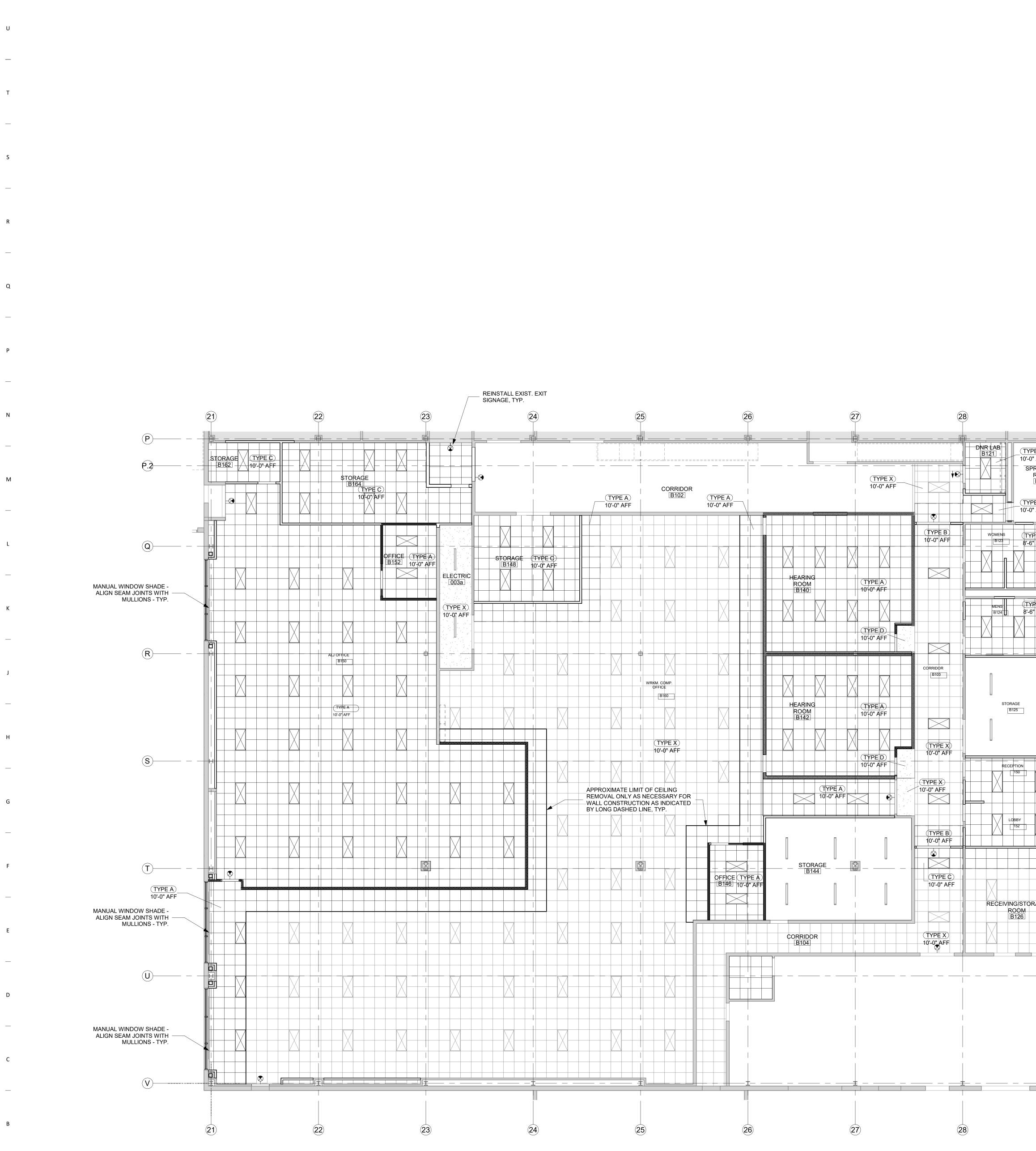
24 25     GENERAL NOTES  1. DIMENSIONS ARE MEASURED FACE- OF-FINISH TO FACE-OF-FINISH OR	OPN
<ul> <li>ROUGH MASONRY OPENING UNLESS NOTED OTHERWISE - TYPICAL FOR ALL DRAWINGS.</li> <li>2. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS - TYPICAL FOR</li> </ul>	ARCHITECTS 100 Court Ave., Suite 100 Des Moines, IA 50309
ALL DRAWINGS. 3. IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND CONSULTANT DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO	P: 515-309-0722 www.opnarchitects.com All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by ODM Architecter Inc. or instruments of convious chall remain
COMMENCING WORK - TYPICAL FOR ALL DRAWINGS. 4. ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS MUST BE SEALED WITH APPROPRIATE FIRESTOPPING	OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto. © 2024 OPN Architects, Inc.
<ul> <li>SYSTEM.</li> <li>PATCH AND REPAIR EXISTING FLOOR SLABS AND WALL SURFACES DAMAGED FROM DEMOLITION.</li> <li>ALL WALLS TO BE A1 c UNLESS NOTED OTHERWISE.</li> </ul>	Owner <b>STATE OF IOWA - DEPARTMENT OF</b> <b>ADMINISTRATIVE SERVICES</b> 1305 E WALNUT ST DES MOINES, IA 50319
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	Key Plan
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	OPN Project No. 24816000 Sheet Issue Date 100% CONSTRUCTION 08/16/2024 DRAWING SET
	DRAWING SET Sheet Name FLOOR PLAN



Sheet Number

25





A2 LEVEL 1 REFLECTED CEILING PLAN 1/8" = 1'-0"

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						CEILINGS ARE TYPE A AN TO MATCH EXISTING ELE UNLESS NOTED OTHERW CEILING-MOUNTED FIXTU SPRINKLERS AND EQUIPI BE CENTERED IN CEILING
						GYPSUM BOARD SOFFITS EQUALLY SPACED UNLES OTHERWISE CENTER CEILING GRID IN SHOWN UNLESS NOTED CONCEALED SPRINKLER COVERS SHALL BE PAINT
					5.	MANUFACTURER TO MAT SOFFIT/ACP UNLESS NOT OTHERWISE. COORDINATE LOCATIONS LIGHTS AND EMERGENC' SHOWN ON ARCHITECTU DRAWINGS. IN THE EVEN
						DISCREPANCY, VERIFY W ARCHITECT PRIOR TO INS CEILING FIXTURE DIMENS TAKEN FROM CENTERLIN UNLESS NOTED OTHERW REFER TO ARCHITECTUR
					7.	(ELEVATIONS & REFLECT PLANS) FOR ALL MECHAN ELECTRICAL DEVICE AND LOCATIONS & MOUNTING NOT CLEARLY SPECIFIED ARCHITECT FOR FURTHE CLARIFICATION. MECHAN ELECTRICAL DRAWINGS
					8.	FIXTURE TYPE REFEREN PAINT ALL EXPOSED STR DECK, DUCTWORK, CONI AREAS NOTED TO BE OP STRUCTURE UNLESS NO OTHERWISE. PAINTING O STRUCTURE TO BE DONE UTILITIES ARE INSTALLED
					999	CEILING LEGEN BATT LINE D LOCATIONS PARTITIONS ACOUSTICAI INSULATION
						SEALANT AT AND PENETF REFER TO F FOR WALL T ACCESS PAN
29						RECTANGUL
(TYPE B)	—( <b>P</b> )					O  DOWN LIGH
10'-0" AFF SPRINKLER RISER B119	<b>P</b> .2				E	O DOWN LIGH <sup>™</sup>
TYPE C 10'-0" AFF						CEILING & W EXIT SIGNS
(TYPE B) 8'-6" AFF						HVAC RETUR
TYPE B           8'-6" AFF						HVAC SLOT
	—( <b>R</b> )				-	PROJECTOR
						SPEAKER     MICROPHON
IGE						WIRELESS A
	—( <b>S</b> )					SD SMOKE DET
						<ul> <li>DATA &amp; POW</li> <li>SPRINKLER</li> </ul>
BBY 152	(TYPE C)					
	10'-0" AFF				A	CEILING TYPES ACP-1 SEE INTERIOR FINISH SP ON SHEET A001
G/STORAGE DOM 126	(TYPE X) 10'-0" AFF				B.	ACP-1.1 NEW TILE OR EXISTING T OWNER ATTIC STOCK (AVAILABLE ATTIC STOCK 240 TILES)
						ACP-1.2 SALVAGED CEILING TILE GYPSUM BOARD CEILING
	—(U)				X.	STUD FRAMING EXISTING CEILING TO RE HEIGHT IN FIELD.
<u>_</u>	—(V)					
•						

(29)

#### 25 RAL NOTES

TYPE A AND INSTALLED STING ELEVATION (10'-0") O OTHERWISE TED FIXTURES,

ND EQUIPMENT SHALL IN CEILING PANELS OR D SOFFITS AND ED UNLESS NOTED

IG GRID IN ROOMS AS S NOTED OTHERWISE. PRINKLER HEAD BE PAINTED BY ER TO MATCH ADJACENT ILESS NOTED

OCATIONS OF EXIT **IERGENCY LIGHTS** CHITECTURAL THE EVENT OF A VERIFY WITH IOR TO INSTALLATION. E DIMENSIONS ARE ENTERLINE OF FIXTURE O OTHERWISE. HITECTURAL DRAWINGS REFLECTED CEILING L MECHANICAL AND EVICE AND FIXTURE MOUNTING HEIGHTS. IF SPECIFIED, CONTACT R FURTHER I. MECHANICAL & RAWINGS ARE FOR REFERENCE ONLY. OSED STRUCTURE, ORK, CONDUIT, ETC. IN TO BE OPEN TO NLESS NOTED

AINTING OF EXPOSED D BE DONE AFTER ALL NSTALLED.

#### NG LEGEND

TT LINE DENOTES CATIONS OF ACOUSTIC RTITIONS TO RECEIVE OUSTICAL BATT SULATION AND SOUND ALANT AT PERIMETER ID PENETRATIONS. FER TO FLOOR PLANS OR WALL TYPES.

CESS PANEL

CTANGULAR FIXTURE

NEAR FIXTURE

OWN LIGHTS

NEAR PENDANT OWN LIGHT PENDANTS

ILITY LIGHTS

ILING & WALL MOUNT IT SIGNS

AC SUPPLY DIFFUSER

AC RETURN DIFFUSER

AC EXHAUST DIFFUSER

AC SLOT DIFFUSER

AC ROUND DIFFUSER

ROJECTOR ROJECTOR SCREEN

CCUPANCY SENSOR

CROPHONE

RELESS ACCESS POINT EILING & WALL MOUNT

IOKE DETECTOR

EILING & WALL MOUNT AMERA

TA & POWER

RINKLER

## ING TYPES

FINISH SPECIFICATION

## EXISTING TILE FROM STOCK TIC STOCK = APPROX.

LING TILE D CEILING ON METAL

NG TO REMAIN. VERIFY D.



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#### Project 9411.00 - DAS 6200 PARK ALJ -WORKMAN'S COMP RENOVATION 6200 PARK AVE DES MOINES, IA 50321

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Electrical Engineer KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 50265 P. 515-724-7938

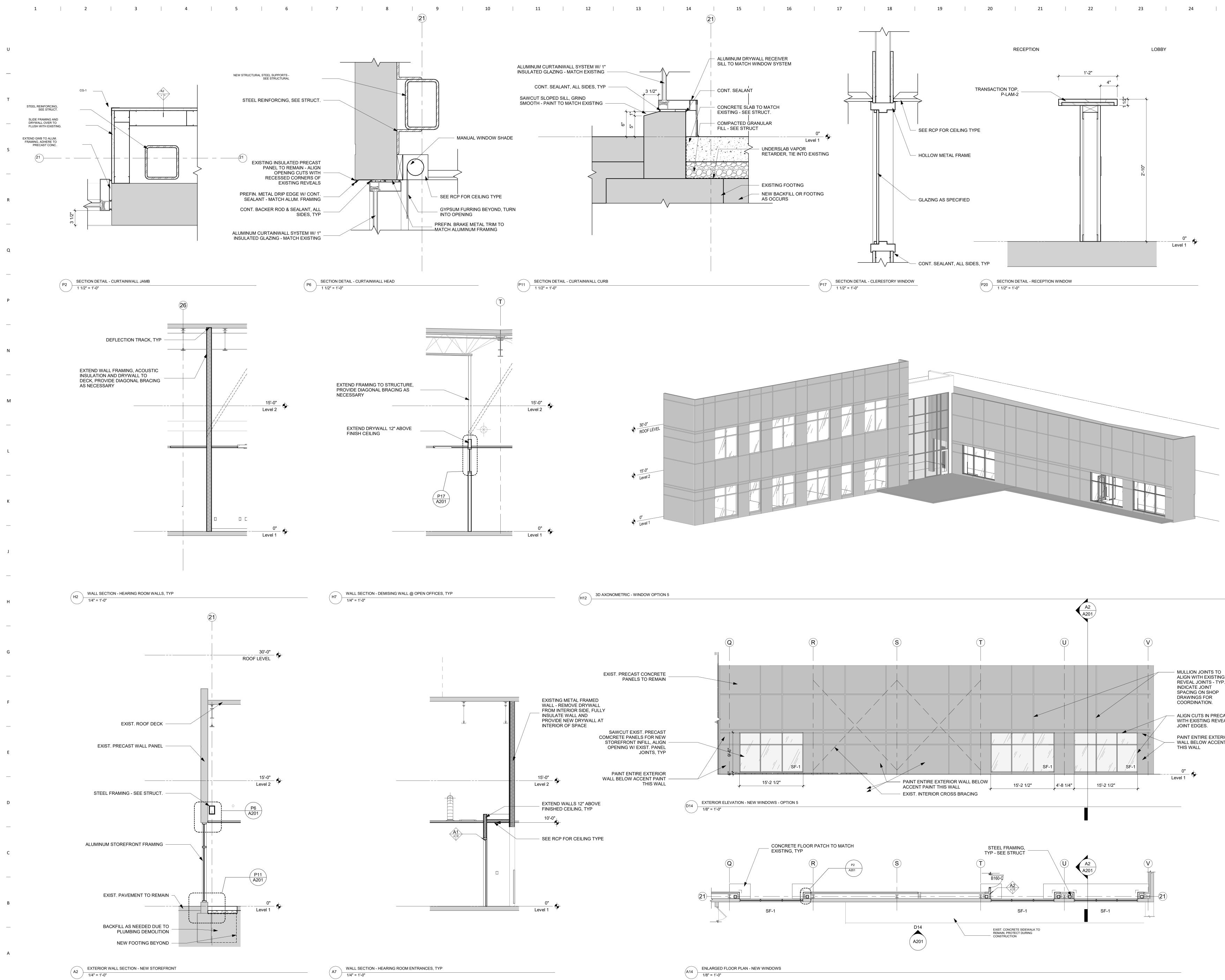
Key Plan

Revision Description

OPN Project No. 24816000

Sheet Issue Date 100% CONSTRUCTION 08/16/2024 DRAWING SET Sheet Name **REFLECTED CEILING PLANS** 

A102



A14 ENLARGED FLOOR PLAN - NEW WINDOWS 1/8" = 1'-0"

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	RAKER RHODES ENGINE 4717 GRAND AVE DES MOINES, IA 50312	EERING
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	300 4TH ST WEST DES MOINES, IA 5 P. 515-724-7938	0265
	Electrical Engineer	
	KCL ENGINEERING 300 4TH ST	0265
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	EXTERIOR ELEVATIONS & WALL SECTIONS	
	Sheet Number	A201

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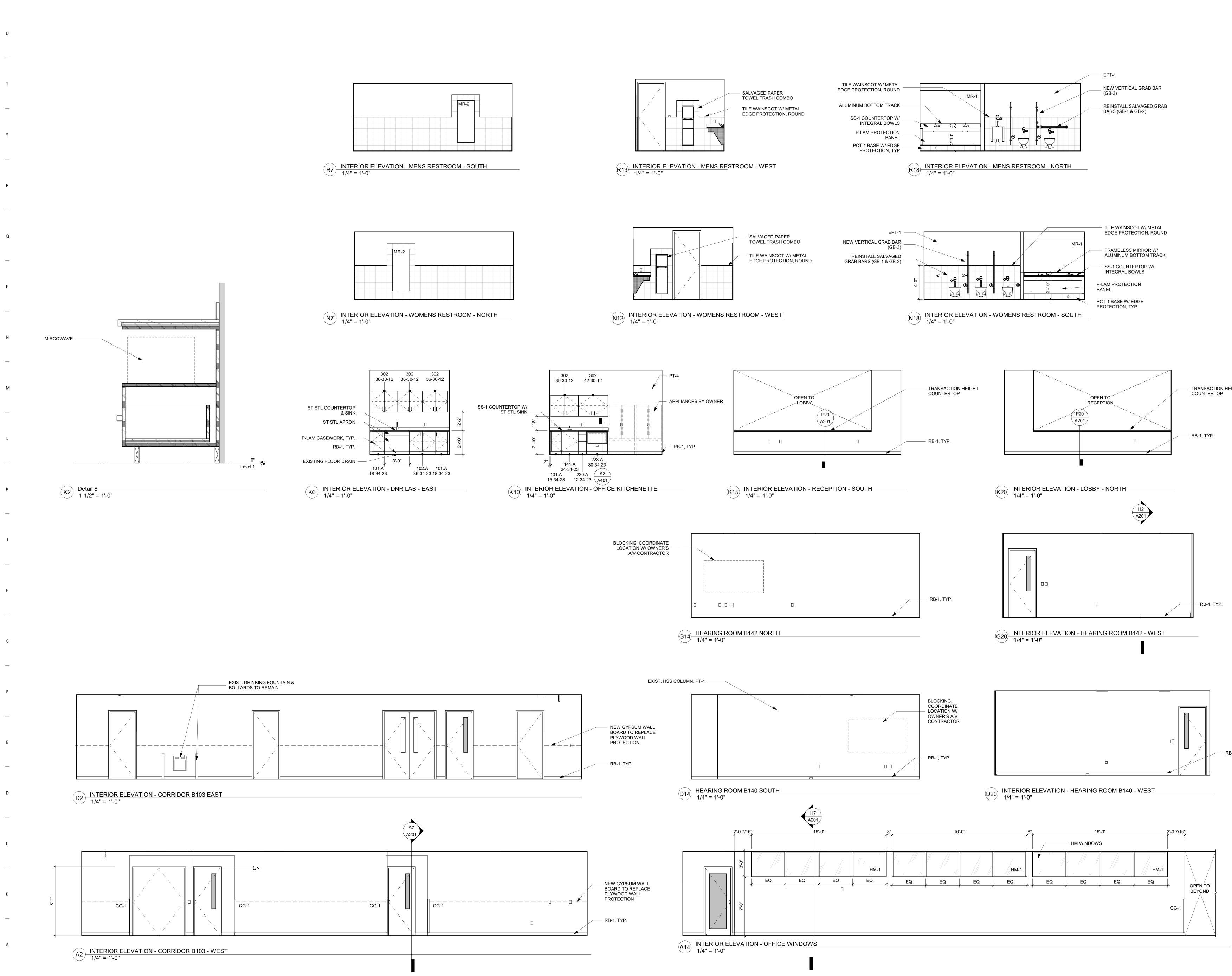
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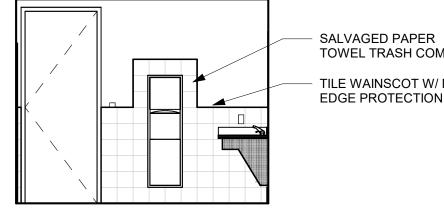
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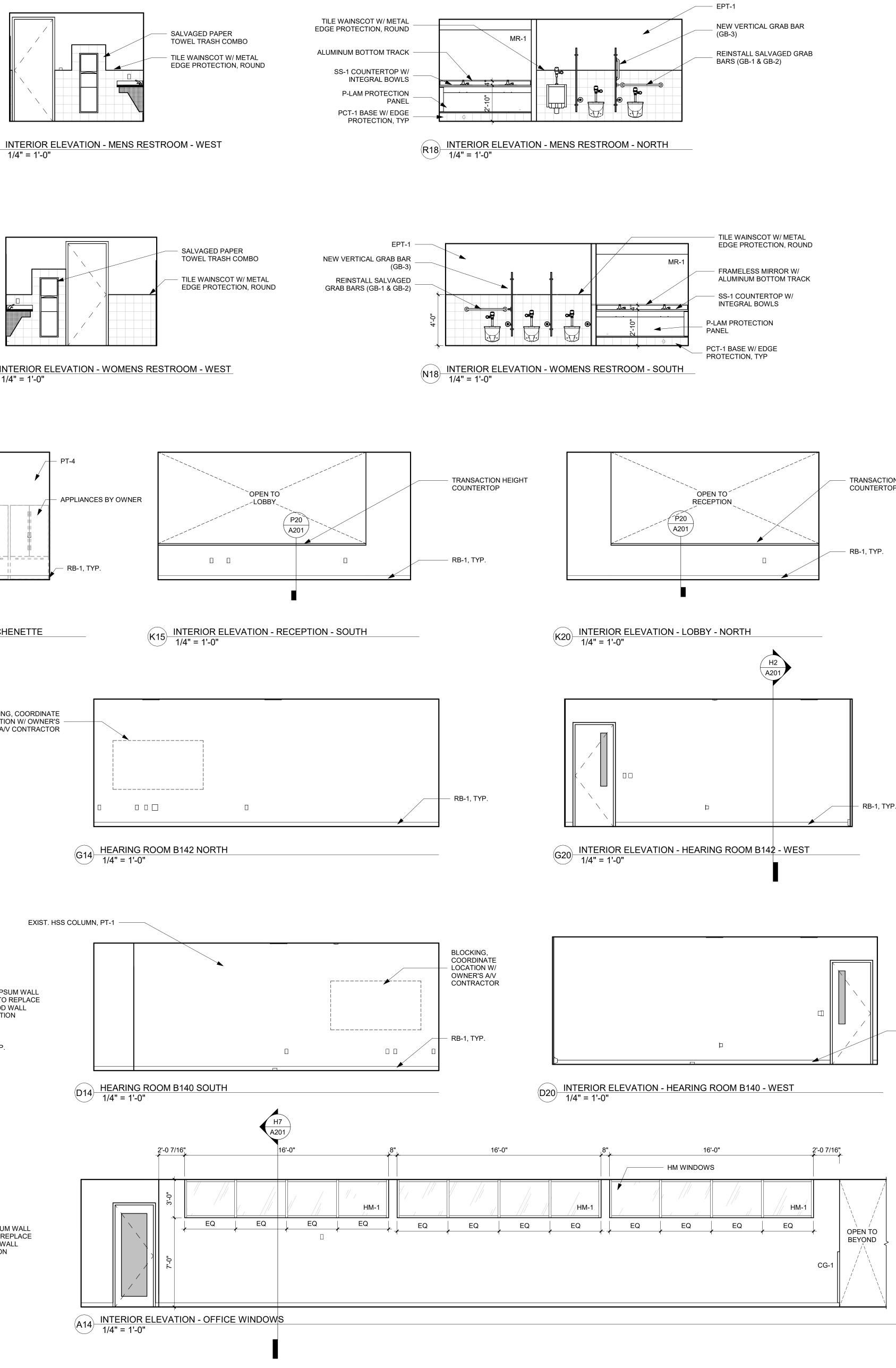
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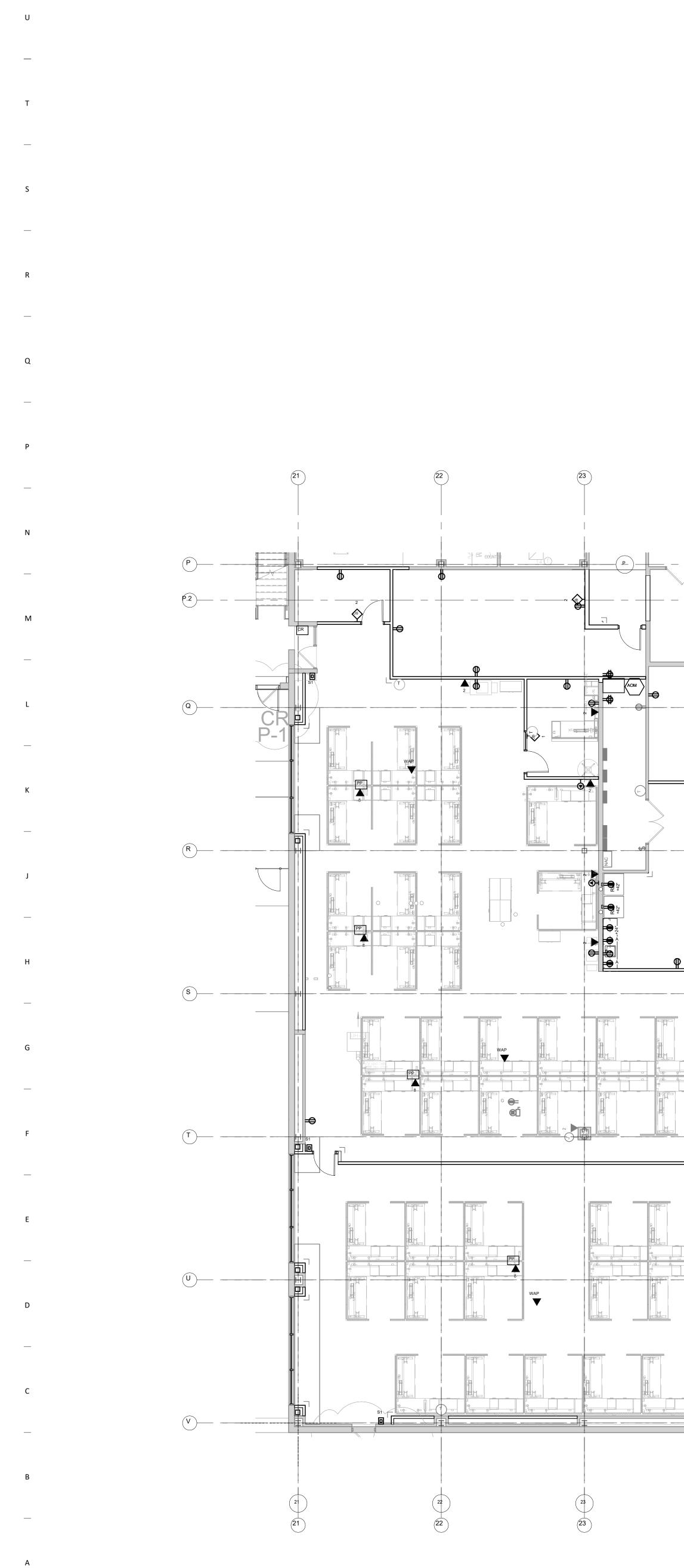




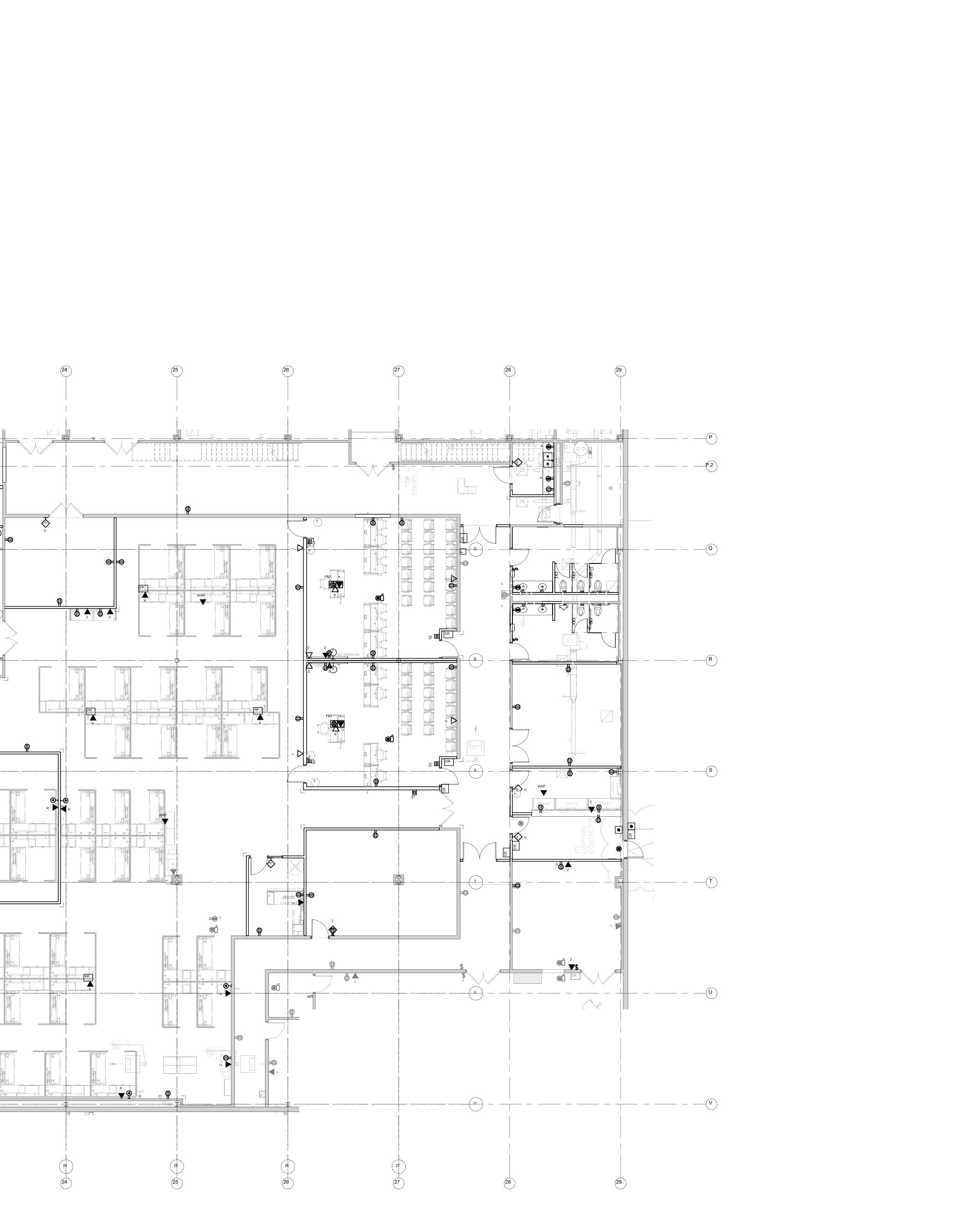




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A2 LEVEL 1 FURNITURE FLOOR PLAN (FOR REFERENCE ONLY) 1/8" = 1'-0"



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	Structural Engineer		EERING	
	4717 GRAND A DES MOINES, I P. 515-277-027	A 50312		
	Mechanical Engineer KCL ENGINEER 300 4TH ST	RING		
	WEST DES MO P. 515-724-793 Electrical Engineer		0265	
	KCL ENGINEEF 300 4TH ST WEST DES MO		0265	
	P. 515-724-793			
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P		1		2		3	I	4	PLU	5 IMBING - NOTES	6		7	I
RI									<u>1 20</u> 1.	COORDINATE WORK V NOTE #1.	VITH ALL OTH	HER TRADES	AS DESCR	IBED IN MEC
PRINTED:	U								2.	PROVIDE A COMPLETE SUPPORTS, EQUIPMEN ACCESSORIES AND SF RECOMMENDATIONS. WITH ALL LOCAL AND	NT, WATER H PECIALTIES. I SIZE AND IN:	IEATERS, FIX <sup>-</sup> INSTALL ALL E STALL PLUMB	TURES, MI EQUIPMEN BING SYSTI	XING VALVES IT PER MANU EM PER PLUI
00	_								3.	DRAWING PLANS, SCH ARRANGEMENT OF PL			s indicate	E GENERAL L
8/15/2	т								4.	EXISTING PLUMBING D DESTRUCTIVE SITE OE FIELD VERIFY ALL EXIS PIPING CONCEALED IN	BSERVATION	AND AS-BUIL	T DOCUMI DING LOC/	ENTS PROVII ATING UNDEI
2024									5.	SEAL ALL WALL PIPE F WHERE REQUIRED. RE ASSEMBLY RATINGS.				
	—								6.	CONTINUE PIPE INSUL UNBROKEN. SEAL ARC				
11:16:2	S								7.	VERIFY WITH ENGINEE CONTRACTOR IS RESP DRAWINGS; TAGGED ( SPECIFICALLY NOTED	PONSIBLE FO	DR ALL PLUME GED ON PLUM	BING FIXTU /IBING / ME	JRES SHOWN
10	_								EIDI	E PROTECTION - NO	TES			
AM									<u>EIR</u> 1.	COORDINATE WORK V NOTE #1.		HER TRADES	AS DESCR	IBED IN MEC
S	R								2.	LOCATE SPRINKLER H WITHOUT CONFLICT W ELEMENTS.				
	_								3.	PROVIDE MANUAL DRA REQUIRED TO AVOID (				THE SYSTEM
									4.	CENTER SPRINKLER H REFLECTED CEILING F				
	Q								5.	DO NOT INSTALL SPRI ROOMS. INSTALL SIDE WITH NO PIPING INSID	WALL SPRIN	KLER HEADS	IN COMMU	JNICATION A
	_								6.	DO NOT INSTALL SPRI CLEARANCE OF ANY C CLEARANCES ARE OB	THER EQUIF			
	Ρ								7.	INCLUDE COST TO REI WORK AREA, AS THE E DUCTWORK HAS PRIO	EXISTING PIP	ING MAY CON	<b>VFLICT WIT</b>	TH NEW DUC
									MEC	HANICAL – DEMOLI		-ES		
	N								<u>1.</u>	MECHANICAL DEMOLIT PREPARED BASED ON I PROVIDED BY THE OWI NOTIFY ARCHITECT/EN THOSE SHOWN ON THE	ION DRAWIN NON-DESTRI NER. FIELD V GINEER IF E2	GS SHOWING UCTIVE FIELD (ERIFY EXISTI	OBSERVA	TION AND AS MS BEFORE
	N 								2.	BE FAMILIAR WITH EXIS DEMOLITION WORK. OF OFF SERVICES OR SYS DEMOLITION AREA. INF DURATION OF THE SHU SHUT-DOWN AFTER PE	TAIN PERMI TEMS THAT ORM THE OV TDOWN. MIN	SSION FROM AFFECT AREA WNER'S REPR NIMIZE IMPAC	THE OWN AS BEYONI RESENTATI T TO OTHE	er's repres d the limits ive of the f er areas. Pi
	М								3.	REMOVE PIPING, HANG INDICATED TO BE REMO DEMOLITION SPECIFICA	ERS, DUCTV OVED IN A TI	VORK, GRILLE MELY MANNE	ES, REGIST R IN ACCC	ERS, DIFFUS DRDANCE WI
									4.	UNLESS EQUIPMENT TO EQUIPMENT AND/OR M				
	_								5.	REMOVE ALL ABANDON WITHOUT WALL OR CEI REMOVED.				

6. REPAIR OR REPLACE TELECOMMUNICATIONS FACILITIES OR EQUIPME DAMAGED OR NON-FUNCTIONAL AFTER SUBSTANTIAL COMPLETION. <u>HVAC - NOTES</u>

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- 1. COORDINATE WORK WITH ALL OTHER TRADES AS DESCRIBED IN MECH NOTE #1. 2. PROVIDE A COMPLETE HVAC SYSTEM, INCLUDING SUPPLY, RETURN, E VENTILATION DUCTWORK; MECHANICAL EQUIPMENT, SUPPORTS, HAN GRILLES, REGISTERS, AND ALL APPURTENANCES. INSTALL ALL EQUIPM MANUFACTURER'S RECOMMENDATIONS. INSTALL SYSTEM TO MEET AL CODES AND REQUIREMENTS.
- 3. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LC ARRANGEMENT OF DUCT SYSTEM. INDICATED DUCT LOCATIONS, CONF ARRANGEMENTS WERE USED TO SIZE DUCTS AND CALCULATE FRICTION HANDLING EQUIPMENT SIZING AND FOR OTHER DESIGN CONSIDERATION SYSTEMS AS INDICATED UNLESS DEVIATIONS TO LAYOUT ARE APPROV ARCHITECT/ENGINEER. 4. ALL DUCT DIMENSIONS INDICATED ARE INTERIOR FREE AREA DUCT DI NOT INCLUDE INSULATION REQUIREMENTS.
- 5. SEAL ALL WALL AND FLOOR DUCT PENETRATIONS. PROVIDE FIRE CAU FOR PENETRATIONS OF RATED ASSEMBLIES. REFER TO ARCHITECTUR ASSEMBLY RATINGS. 6. CONTINUE DUCT AND PIPE INSULATION THROUGH WALLS, FLOORS, AN PENETRATIONS UNBROKEN, EXCEPT WHERE FIRE OR FIRE/SMOKE DAI н IN DUCTWORK. SEAL AROUND DUCT INSULATION AT WALL PENETRATIC

	ABSOR ABSORPTION FT FINTUBE	CW	DOMESTIC COLD WATER
JLATION, HANGERS, ALVES, VALVES, MANUFACTURER'S	ACU AIR CONDITIONING UNIT FTG FOOTING AD ACCESS DOOR OR AREA DRAIN GA GAGE	HW	DOMESTIC HOT WATER
PLUMBING CODE. COMPLY	AFFABOVE FINISHED FLOORGALGALLONAFGABOVE FINISHED GRADEGALVGALVANIZED	DSW	DOMESTIC SOFT WATER GREASE WASTE
RAL LOCATION AND	AHU     AIR HANDLING UNIT     GC     GENERAL CONTRACTOR       AV     AIR VENT     GI     GREASE INTERCEPTOR	G	NATURAL GAS
	BOTBOTTOMGWGREASE WASTEBTUBRITISH THERMAL UNITGPHGALLONS PER HOURBTUHBTU PER HOURGPMGALLONS PER MINUTE	GV	NATURAL GAS VENT
E BASED ON NON- ROVIDED BY THE OWNER.	BV     BALL VALVE     HR     HOUR       CA     COMPRESSED AIR     HTG     HEATING	RHW	RECIRCULATING HOT WATER
JNDER FLOOR PIPING AND REQUIRED.	CB CATCH BASIN HB HOSE BIBB CENT CENTRIFUGAL ISP INTERNAL STATIC PRESSURE	ST	STORM
RATION FIRESTOPPING WALL, FLOOR, AND CEILING	CFMCUBIC FEET PER MINUTEJRJANITOR RECEPTORCICAST IRONLAVLAVATORY	SO	STORM OVERFLOW
WALL, FLOOR, AND CEILING	CLCENTER LINELDBTLEAVING DRY BULBCONDCONDENSATETEMPERATURE	P	TRAP PRIMER VENT
NG PENETRATIONS	CO CLEAN OUT LWT LEAVING WATER CONC CONCRETE TEMPERATURE		VENT
PED PRIOR TO ANY WORK.	CONTRCONTRACTORLWBTLEAVING WET BULBCPCONDENSATE PUMP/CIRC. PUMPTEMPERATURECUCOPPERMBMOP BASIN		
IOWN ON ARCHITECTURAL CAL DRAWINGS UNLESS	CU     COFFER     MB     MOF BASIN       CUH     CABINET UNIT HEATER     MBH     1000 BTUH       CWP     CIRCULATING WATER PUMP     MC     MECHANICAL CONTRACTOR	PIPE FITTINGS	
	DDC DIRECT DIGITAL CONTROLS MECH MECHANICAL DN DOWN MH MANHOLE		
	DRDRAINNTSNOT TO SCALEDSDOWNSPOUTOAOUTSIDE AIR		
I MECHANICAL GENERAL	EAEXHAUST AIRODOVERFLOW ROOF DRAINEATEXHAUST AIR TEMPERATUREPCPLUMBING CONTRACTOR	ראי ELBOW - DOUBLE BRANCH	ELBOW - DOUBLE BRANCH
E IN INDIVIDUAL SPACES	EC     ELECTRICAL CONTRACTOR     PSI     POUNDS PER SQUARE INCH       EDBT     ENTERING DRY BULB     PRV     POWER ROOF VENTILATOR		ELBOW - OUTLET DOWN
AND OTHER CEILING	TEMPERATURE     PRV     PRESSURE REDUCING VALVE       EEW     EMERGENCY EYE WASH     PV     PRESSURE VENT       EE     EXHAUST FAN     PVC     POLYVINYL CHLORIDE		
STEM WHERE OFFSETS ARE	EFEXHAUST FANPVCPOLYVINYL CHLORIDEEJEXPANSION JOINTRARETURN AIREQUIPEQUIPMENTRDROOF DRAIN	C ELBOW - LONG RADIUS	ELBOW - LONG RADIUS
	EQUIP EQUIPMENT RD ROOF DRAIN ESE EMERGENCY SHOWER/EYEWASH RH RELATIVE HUMIDITY EST EXTERNAL STATIC PRESSURE RTU ROOF TOP UNIT		
TED ON THE ARCHITECTURAL E.	EWBT     ENTERING WET BULB     RV     RELIEF VALVE       TEMPERATURE     RVT     ROOF VENT TERMINATION	C ELBOW - SHORT RADIUS	ELBOW - SHORT RADIUS
CATION OR ELECTRICAL	EWCELECTRIC WATER COOLERSKSINKEWTENTERING WATERSASUPPLY AIR	₽► 45° ELBOW	rs≫ 45° ELBOW
ION AND ELECTRICAL ROOMS	TEMPERATURESHSHOWEREXEXISTINGSOSTORM OVERFLOW	דים TEE - VENT	TEE - VENT
ROACH ON THE REQUIRED	EXH     EXHAUST     SSE     SPLIT SYSTEM EVAPORATOR       EXP     EXPANSION     SSC     SPLIT SYSTEM CONDENSER	דבי TEE - SANITARY	TEE - SANITARY
TIEADS WHERE	FAIFRESH AIR INTAKESTSTORMFCUFAN COIL UNITTCCTEMPERATURE CONTROLFDFLOOR DRAINCONTRACTOR		
IN OUTLINED SCOPE OF DUCTWORK. NEW	FD FLOOR DRAIN CONNECTION TYP TYPICAL FLEX FLEXIBLE UH UNIT HEATER	TEE - OUTLET DOWN	TEE - OUTLET DOWN
R PIPING.	FLR     FLOOR     UR     URINAL       FPM     FEET PER MINUTE     UV     UNIT VENTILATOR	——————————————————————————————————————	
	FPS     FEET PER SECOND     VA     VENTILATION AIR       FS     FLOOR SINK     VTR     VENT THROUGH ROOF	TEE - SIDE OUTLET DOWN	
TIONS HAVE BEEN	FSEC       FOOD SERVICE EQUIPMENT CONSULTANT       WB       WALL BOX – CONDENSATE         WC       WATER CLOSET	TEE - SIDE OUTLET UP	
ND AS-BUILT DRAWINGS FORE BEGINNING WORK. FERIALLY DIFFERENT THAN	WHAWATER HAMMER ARRESTORWHWATER HEATER		
		H CROSS - VENT	CROSS - VENT
E AFFECTED BY THE EPRESENTATIVE TO SHUT	MECHANICAL - GENERAL NOTES	CROSS - SANITARY	CROSS - SANITARY
IMITS OF THE IMMEDIATE THE REASON FOR AND	COORDINATE MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. BEGIN     INSTALLATION AND ROUGH-IN AFTER COORDINATION WITH ALL TRADES ASSOCIATED WITH		
AS. PROCEED WITH THE	THE INSTALLATION IS COMPLETE. COORDINATE BUILDING STRUCTURE, ARCHITECTURAL ASSEMBLIES, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE	TEE - SINGLE SWEEP "COMBO WYE"	TEE - SINGLE SWEEP "COMBO WYE"
IFFUSERS, ETC. THAT ARE CE WITH THE GENERAL	TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REWORK		
ND OTHER CONTRACTORS.	ASSOCIATED WITH FAILURE TO COORDINATE.	REDUCER - CONCENTRIC	REDUCER - CONCENTRIC
LVAGE, DISPOSE OF DMPTLY.	<ol> <li>INCORPORATE MECHANICAL SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OWNER STANDARDS INTO WORK.</li> </ol>	-	REDUCER - ECCENTRIC
SED OR ACCESSIBLE	3. WARNING - CALL 48 HOURS BEFORE YOU DIG: LAW REQUIRES ANYONE DOING ANY	CAPPED CONNECTION	
FOR CEILINGS TO BE	EXCAVATION, FENCING, PLANTING OR DRILLING TO CALL 48 HOURS IN ADVANCE. HAND DIG WITHIN 18 INCHES OF ANY LOCATE MARK OR FLAG. ONE CALL 811.		
IPMENT FOUND TO BE	4. REFER TO ARCHITECTURAL SPECIFICATIONS FOR THROUGH-PENETRATION FIRESTOPPING AND TO ARCHITECTURAL CODE PLAN FOR FIRE RATED WALLS, FLOORS, AND CEILINGS. EACH		-
ON.	TRADE IS RESPONSIBLE TO FIRESTOP PENETRATIONS THROUGH RATED ASSEMBLIES.		
	5. EACH TRADE IS RESPONSIBLE FOR MAKING PENETRATIONS WHERE REQUIRED IN EXISTING WALLS, FLOORS, CEILINGS, AND ROOFS. MAKE PENETRATIONS NEAT. PATCH, CONCEAL, OR	PLUMBING ACCESSORY LEGEND	
MECHANICAL GENERAL			
RN, EXHAUST, AND	<ol> <li>COVER EXPOSED WALL PENETRATIONS WITH ESCUTCHEONS OR SHEET METAL AS APPROPRIATE.</li> </ol>		
HANGERS, DIFFUSERS, QUIPMENT PER	<ol> <li>CAULK ALL CONCEALED AND EXPOSED PIPING AND DUCT WALL PENETRATIONS TO PREVENT NOISE TRANSFER BETWEEN SPACES.</li> </ol>	++ RH ROOF HYDRANT	
ET ALL CITY AND STATE	8. CREATE OPENINGS IN THE BUILDING THAT ARE REQUIRED TO REMOVE EXISTING ITEMS AND	CO CLEAN OUT	
	TO BRING IN NEW EQUIPMENT. PATCH ALL OPENINGS CREATED AND FINISHED WITH MATERIALS TO MATCH EXISTING CONDITIONS. INCLUDE THIS WORK IN BID.	○ FCO FLOOR CLEAN OUT	
CONFIGURATIONS, AND RICTION LOSS FOR AIR- RATIONS. INSTALL DUCT		© FD FLOOR DRAIN	
PROVED BY			# DENOTES PIPE DIAMETER)
CT DIMENSIONS AND DO	IOWA		
	ONE CALL	(Ô) RD / ORD ROOF DRAIN / OVER	RFLOW ROOF DRAIN
CAULKING ASSEMBLIES CTURAL DRAWINGS FOR	1-800-292-8989	COMBO ROOF/OVE	RFLOW DRAIN
	CALL - BEFORE - YOU - DIG	↓ LT LAMB TONGUE	
RS, AND CEILING E DAMPERS ARE INSTALLED			NTER
RATIONS.	GENERAL NOTE:	VALVE - BALL / SHU	
	GENERAL NOTE: UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN SHOWN BASED UPON		
	STREETER STREETER, STREETER, MAD OTETTED TAVE DEEN ONOVIN DAOLD UPON	CHECK VALVE	
	INFORMATION OBTAINED FROM FIELD LOCATIONS BY UTILITY COMPANIES, AVAILABLE SURVEYS AND RECORDS. THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS ALSO		

 20	21		22		23	24	
	GENERAL	SYMBOLS					
			EXIS	ΓING = HAL	FTONE LINEWO	PRK	
			NEW	= DARK LI	NEWORK		
			DEM	) = DASHE	D DARK LINEW	ORK	
			BELC	W GRADE	= LONG DASHE	D DARK LINEWORK	
	Ð	NEW CONNE	CTION PO	DINT			
		POINT OF DI	SCONNEC	ст			
	(#)	KEYNOTE					
	$\langle \mathbf{x}\mathbf{x}\mathbf{x} \rangle$	EQUIPMENT	IDENTIFIC	CATION TAG	3		
	1 A101 SIM	DETAIL DRAV		ERENCE T	AG, SIM-SIMILA	R, TYP-TYPICAL, OF	P-OPPOSITI
	1 A101	SECTION CU		ENCE TAG,	SIM-SIMILAR, T	YP-TYPICAL, OPP-O	PPOSITE
	A101	INTERIOR EL	EVATION	DRAWING	REFERENCE TA	AG	
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#### H.V.A.C. / DUCTWORK SYMBOLS

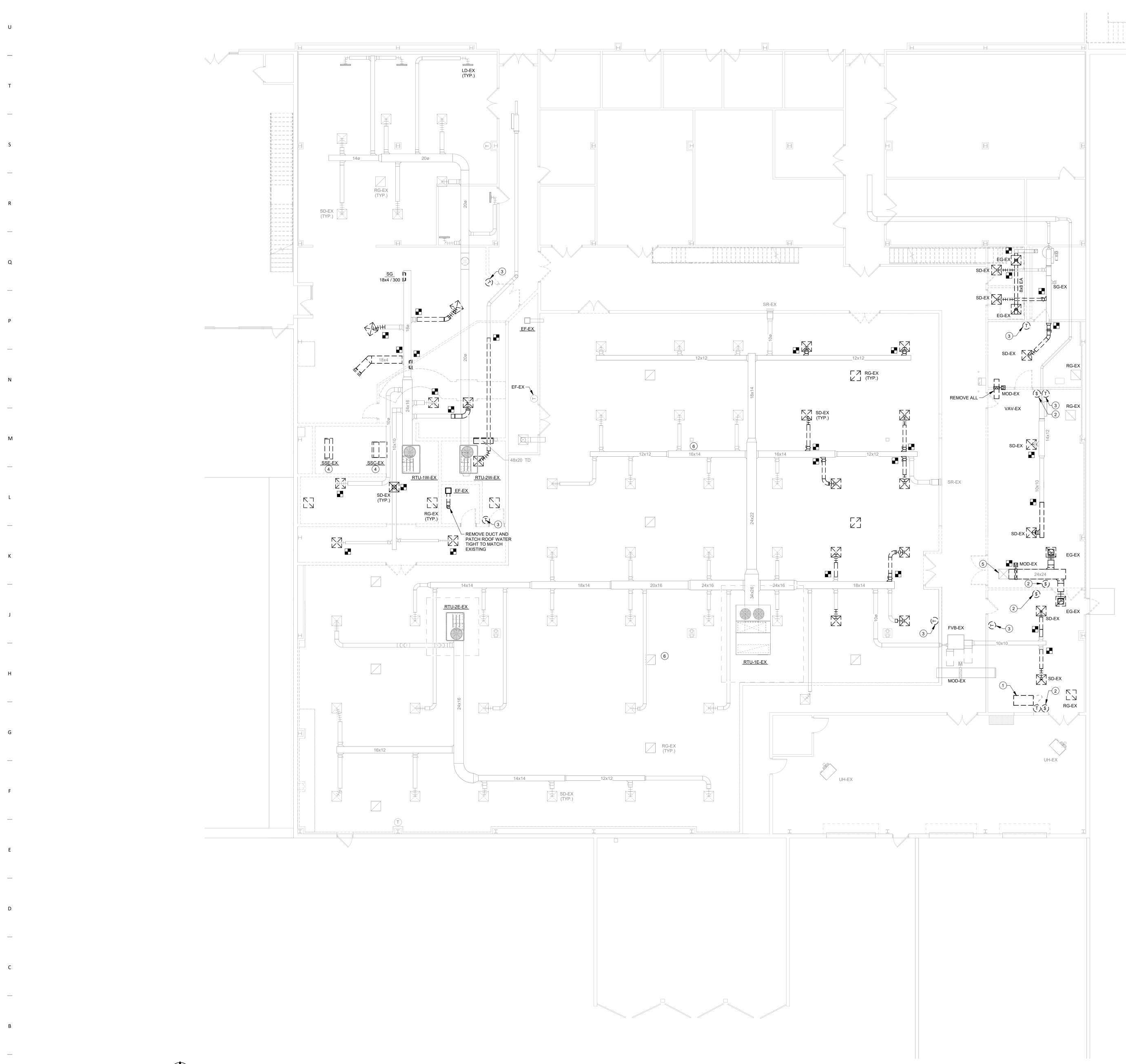
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NECK SIZE / CFM

RECT. RND. OVAL	SUPPLY (SA), OUTSIDE (OA), VENTILATION (VA) AIR DUCT (UP / D
0	SECTION)
	RETURN (RA) AIR DUCT (UP / DOWN / SECTION)
	EXHAUST (EA) AIR DUCT (UP / DOWN / SECTION)
2 10/6 SA	RECTANGULAR DUCT (WIDTH / HEIGHT / SYSTEM)
2 10 Ø SA	ROUND DUCT (DIAMETER / SYSTEM)
2 10/6 Ø SA 2	FLAT OVAL DUCT (WIDTH / HEIGHT / SYSTEM)
	SUPPLY DIFFUSER
$\mathbf{X}$	SUPPLY REGISTER OR GRILLE
	LINEAR SLOT DIFFUSER
	RETURN REGISTER OR GRILLE
	EXHAUST REGISTER OR GRILLE
	DUCT ACCESS DOOR
	DUCT END CAP
	TURNING VANES
	VAV TERMINAL UNIT
-++++++++	FLEXIBLE DUCTWORK
$ R \longrightarrow  $	ELEVATION CHANGE (RISE OR DROP)
4	HIGH EFF. TAKE OFF FITTING w/ VOLUME DAMPER
BD	BACKDRAFT DAMPER
pt by pt by	OPPOSED BLADE DAMPER
\$ \$ \$ \$ \$ \$ \$	PARALLEL BLADE DAMPER
4	VOLUME DAMPER
FD ►	FIRE DAMPER
	SMOKE DAMPER
	FIRE/SMOKE DAMPER
M	MOTORIZED ACTUATOR
T	THERMOSTAT
\$	EXISTING HVAC EMERGENCY SHUTDOWN SWITCH/LIGHT
	SIDE WALL DIFFUSER
	ROUND DIFFUSER
	EXTERIOR LOUVER
	FIXTURE IDENTIFICATION TAG

25	OPN
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	Owner STATE OF IOWA - DEPARTMENT OF ADMINISTRATIVE SERVICES 1305 E WALNUT ST
PPOSITE	DES MOINES, IA 50319 Project
DSITE	9411.00 - 6200 PARK ALJ WORKMAN'S COMP RENOVATION 6200 PARK AVE DES MOINES, IA 50321
	Construction Manager DCI GROUP 220 SE 6TH ST - SUITE 200 DES MOINES, IA 50309 P. 515-244-5043
JP / DOWN /	Civil Engineer CIVIL ENGINEERING CONSULTANTS 2400 86TH ST - UNIT 12 DES MOINES, IA 50322 P. 515-276-7084
	Structural Engineer RAKER RHODES ENGINEERING 4717 GRAND AVE DES MOINES, IA 50312 P. 515-277-0275
	Mechanical Engineer KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 50265
	P. 515-724-7938 Electrical Engineer KCL ENGINEERING
	300 4TH ST WEST DES MOINES, IA 50265 P. 515-724-7938
	Key Plan
	Revision Description Date
	OPN Project No. <b>24816000</b>
	Sheet Issue Date 100% CONSTRUCTION 8/16/24 DRAWING SET Sheet Name
	MECHANICAL GENERAL NOTES & SYMBOLS
25	Sheet Number

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MECHANICAL DEMOLITION PLAN 1/8" = 1'-0"

## GENERAL NOTES:

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- A. REFER TO M000 FOR GENERAL NOTES & SYMBOLS.
- PATCH WALLS, ROOFS, AND/OR FLOOR WHERE DUCTS, GRILLES, PIPES, OR Β. EQUIPMENT ARE REMOVED. PAINT OR FINISH TO MATCH ORIGINAL CONSTRUCTION.
- WHERE DUCTWORK IS REMOVED, REMOVE ALL ASSOCIATED SUPPORTS. C.
- WHERE EQUIPMENT IS REMOVED, REMOVE ALL ASSOCIATED SUPPORTS, D.
- DUCTWORK, PIPING, AND CONTROLS. WHERE CONTROLS ARE REMOVED, REMOVE ALL ASSOCIATED WIRING AND/OR F
- PNEUMATIC TUBING. PATCH WALL OPENINGS AND PAINT OR FINISH TO MATCH ORIGINAL CONSTRUCTION. IN WALLS THAT CANNOT BE PATCHED, INSTALL STAINLESS STEEL COVER PLATE. ABANDON PNEUMATIC TUBING IN WALLS.

## <u>KEYNOTES</u> (#)

- REMOVE EXISTING AIR CURTAIN ALONG WITH ASSOCIATED 1 APPURTENANCES. SALVAGE AIR CURTAIN, THERMOSTAT AND ELECTRICAL DISCONNECT FOR OWNER. REMOVE EXISTING EMERGENCY HVAC SYSTEM SHUTDOWN
- BUTTON AND ASSOCIATED STROBE LIGHT ALONG WITH ASSOCIATED APPURTENANCES. REMOVE AND RELOCATE TEMPERATURE CONTROLS 3 THERMOSTAT ASSOCIATED WITH THIS SPACE. PROVIDE NEW WIRING FOR NEW LOCATION. REFER TO M101 FOR NEW
- LOCATION. REMOVE EXISTING WALK-IN COOLER REFRIGERATION 4 SYSTEM ALONG WITH ASSOCIATED APPURTENANCES. PATCH ROOF PENETRATIONS WATER TIGHT AND MATCH
- EXISTING ROOF. REMOVE EXISTING EXHAUST FAN ON ROOF ALONG WITH ASSOCIATED POWER AND CONTROLS. CAP REMAINING ROOF CURB PER DETAIL 5/M301. 5

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Electrical Engineer KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 50265 P. 515-724-7938

Key Plan

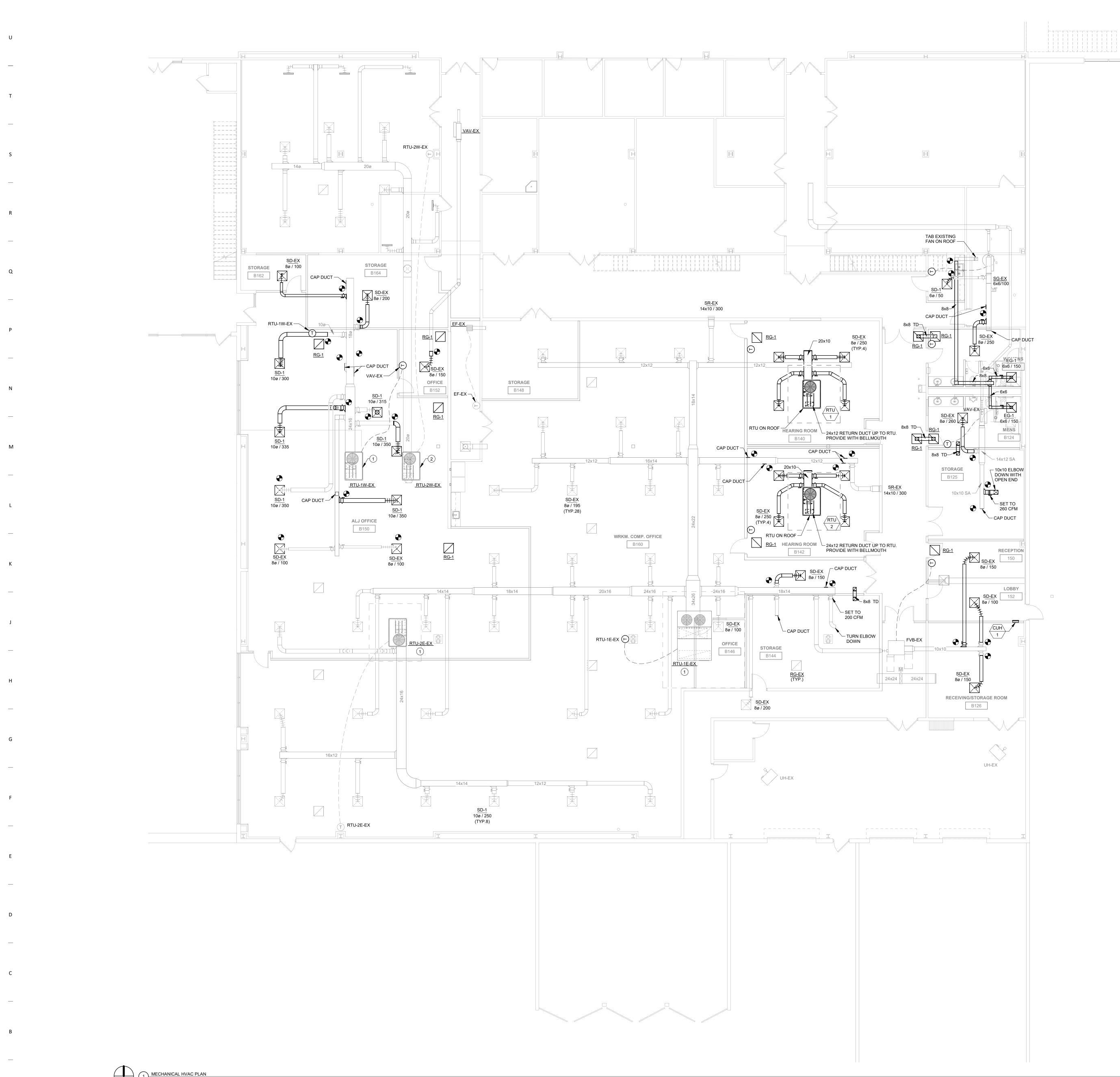
Revision Description

OPN Project No. 24816000

Sheet Issue Date 100% CONSTRUCTION DRAWING SET Sheet Name MECHANICAL DEMOLITION

## MD101





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1 MECHANICAL HVAC PLAN 1/8" = 1'-0"

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### GENERAL NOTES:

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- A. REFER TO M000 FOR GENERAL NOTES & SYMBOLS.
- B. REFER TO M301 FOR MECHANICAL DETAILS.
- REFER TO M501 FOR MECHANICAL SCHEDULES. C.
- BRANCH DUCT SIZES TO AIR TERMINALS SHALL MATCH NECK SIZE OF GRILLE, REGISTER, OR DIFFUSER UNLESS NOTED OTHERWISE. D.
- E. MAXIMUM FLEXIBLE DUCT LENGTH TO DIFFUSERS SHALL BE 60", WITH MAXIMUM OF ONE 90 DEGREE ELBOW.

#### KEYNOTES (#)

- 1 SERVICE AND INSPECT THIS RTU ACCORDINGLY TO ENSURE IT IS IN GOOD RUNNING CONDITION. ADJUST SETPOINTS AND SETBACKS ACCORDINGLY. TAB NEW DIFFUSER AIRFLOW AS SHOWN ON PLAN.
- THIS RTU SHALL REMAIN AS IS AND OPERATIONAL. SERVICE 2 AND INSPECT ACCORDINGLY TO ENSURE IT IS IN GOOD RUNNING CONDITION.



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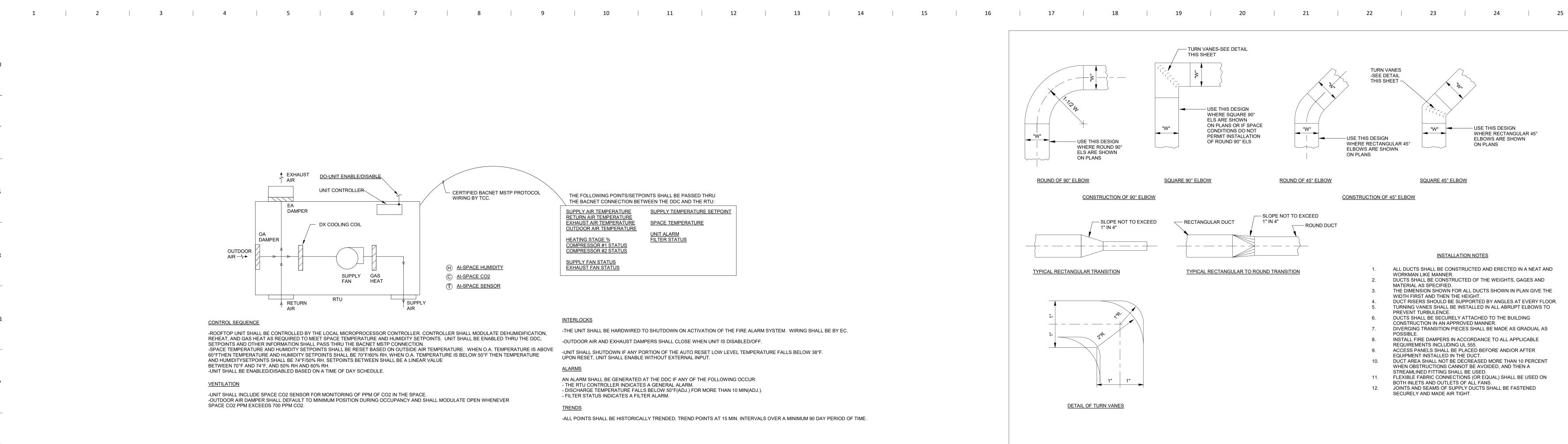
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Key Plan

Revision Description

OPN Project No. 24816000

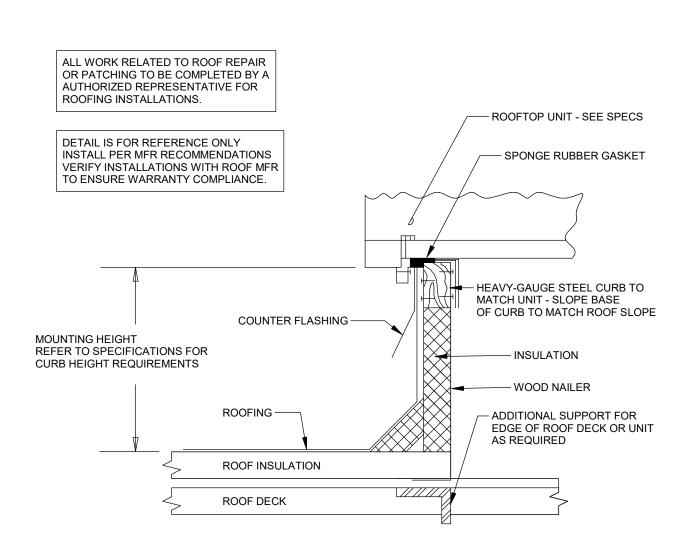
Sheet Issue Date 100% CONSTRUCTION DRAWING SET Sheet Name MECHANICAL HVAC PLAN



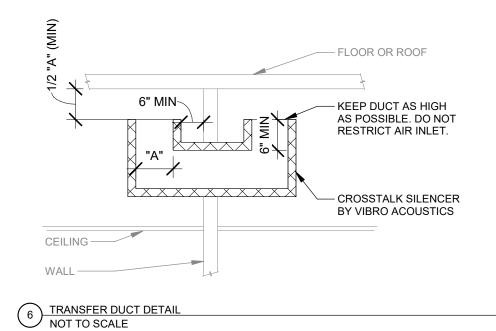
- N 8 ROOFTOP UNITS (RTU-1 / RTU-2) NOT TO SCALE

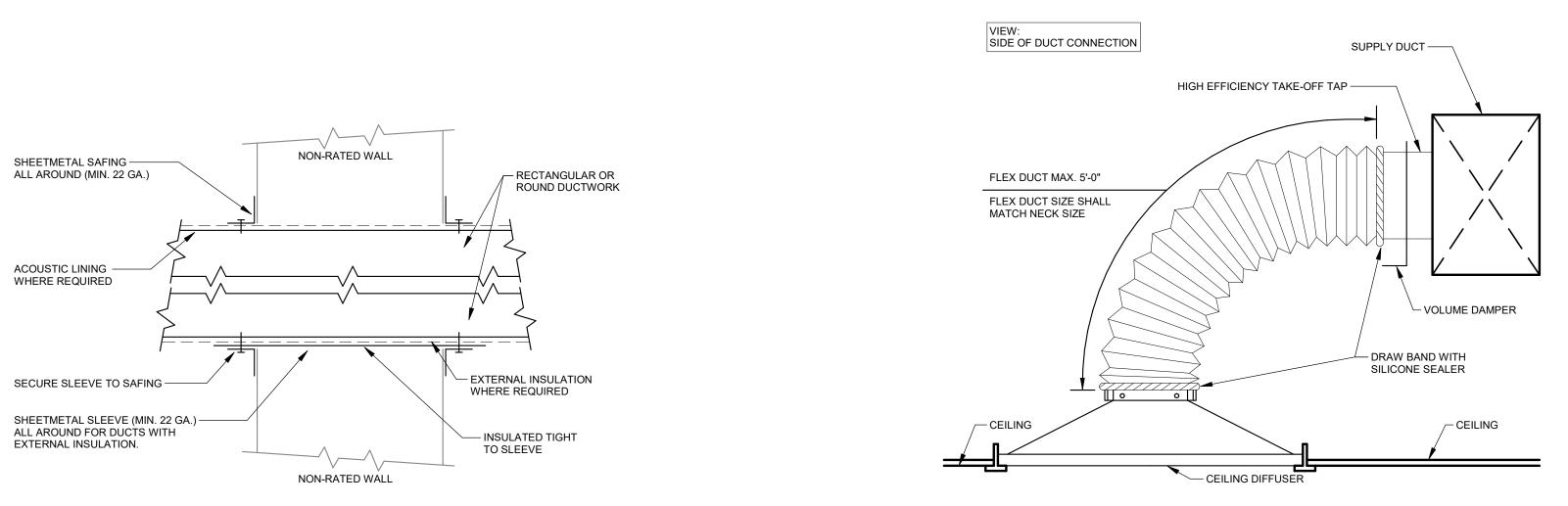
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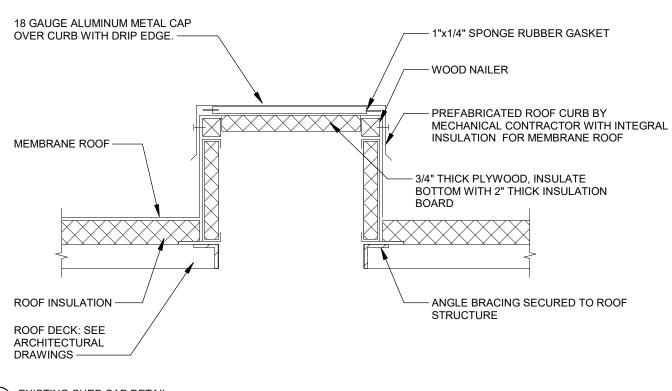


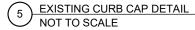
7 <u>NEW ROOFTOP EQUIPMENT CURB DETAIL</u> NOT TO SCALE



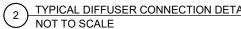


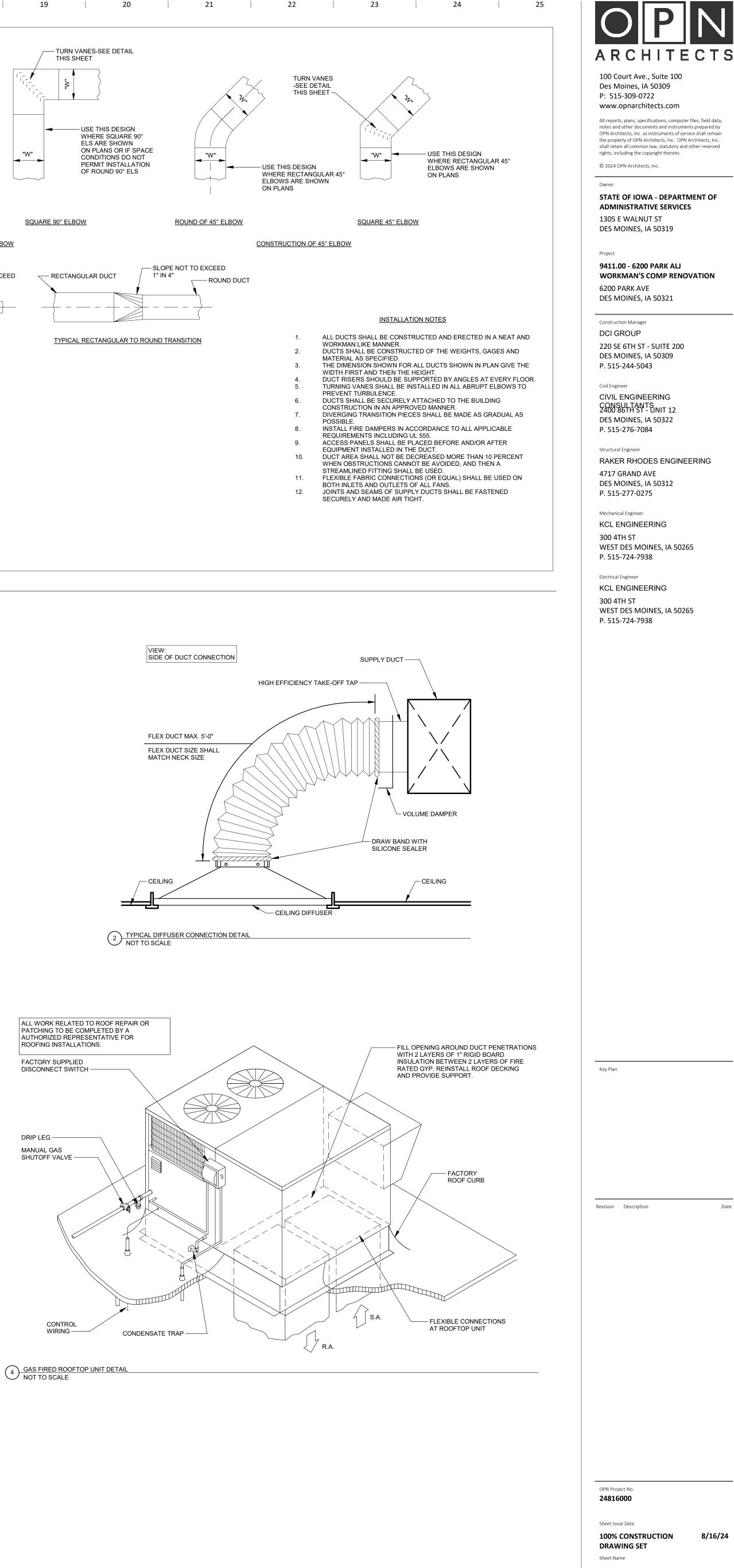
3 DUCT PENETRATION THROUGH NON-FIRE RATED WALL DETAIL NOT TO SCALE





1 DETAILS OF THE LOW VELOCITY DUCT LAYOUT NOT TO SCALE





MECHANICAL DETAILS

**M301** 

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# **DUCT INSULATION SCHEDULE**

#### DUCT TYPE HVAC SUPPLY AIR & VENTILATION AIR... FROM ROO

RETURN AIR DUCT TO ROOF EXHAUST AIR DUCT FROM EXH TRANSFER DUCT N/A FLEXIBLE DUCTS (UL-181, CLASS 1) TO DIFFUS

NOTES:

1. ALL EXTERIOR DUCTWORK DOUBLE WALL AND WRAPPED WITH 2" RIGID BOARD DUCT WRAP AND PROTECTED WITH ALUMINUM JACKET FOR WATER TIGHT ENCLOSURE. 2. ALL DUCTWORK SHALL BE CONSTRUCTED AND ERECTED IN ACCORDANCE WITH 2021 INTERNATIONAL MECHANICAL CODE.

## **ROOFTOP UNIT SCHEDULE**

REFERENCE	RTU-1 / RTU-2
MANUFACTURER	TRANE
MODEL #	PRECEDENCE
SERVES	SEE PLAN
APPROXIMATE WEIGHT W/ CURB & ACCESSORIES (LBS)	867
DIMENSIONS W/ CURB, HOOD & ACCESSORIES - L x W x H (INCHES)	5.82x3.69x3.02
FAN PERFORMANCE	
SUPPLY FAN	T
AIRFLOW (CFM)	1,000
ESP (IN. W.C.)	1.00
MOTOR HP (QUANTITY)	0.75
MOTOR BHP	0.54
COOLING PERFORMANCE	
COIL TYPE	DX
REFRIGERANT	R410A
EFFICIENCY (EER/IEER)	13/17.5
AMBIENT DRY BULB AIR TEMP (°F)	95
EAT - DB / WB (°F)	78/65
LAT - DB / WB (°F)	57/54
NET TOTAL CAPACITY (MBH)	31.95
NET SENSIBLE CAPACITY (MBH)	23.07
NUMBER OF COMPRESSORS	1
1ST STAGE COMPRESSOR TYPE	SCROLL
REHEAT	
TYPE	HOT GAS
CONTROL	MODULATING
EAT - DB / WB (°F)	57/54
LAT - DB / WB (°F)	52.39/52.39
LEAVING COIL DB (°F)	72.91
MOISTURE REMOVAL (GPH)	1.01
HEATING PERFORMANCE	
TYPE	NATURAL GAS
CONTROL	MODULATING
EAT - DB (°F)	55
LAT - DB (°F)	99.7
INPUT (MBH)	57
OUTPUT (MBH)	48
TURNDOWN	1:1
UNIT OPERATING PRESSURE (IN. W.C.)	7 TO 14
ELECTRICAL DATA	
VOLTAGE - PH	208 - 3
MCA	24
MOCP	30
DISCONNECT	BY EC
NOTES	1 THROUGH 11

NOTES:

1. PROVIDE UNIT WITH SINGLE POINT POWER CONNECTION AND POWERED CONVENIENCE OUTLET.

2. REFER TO CONTROL DRAWINGS FOR ADDITIONAL DETAILS.

3. PROVIDE WITH 2" MERV 8 PLEATED THROWAWAY FILTER.

4. UNIT SUPPLY FANS IS VARIABLE SPEED. PROVIDE FAN MOTORS RATED FOR VFD APPLICATION.

5. PROVIDE GAS REGULATOR TO REGULATE DOWN FROM 2 PSI TO OPERATING PRESSURE. REFER TO MFR RECOMMENDATIONS FOR OPERATING PRESSURE.

6. PROVIDE UNIT WITH OUTDOOR AND EXHAUST LOW-LEAK DAMPERS; DAMPERS TO BE HARDWIRED TO CLOSE WHEN UNIT IS OFF.

7. MCA INCLUDES ELECTRIC PREHEAT FOR ENERGY RECOVERY WHEEL DEFROST. PROVIDE SCR MODULATING CONTROL FOR ELECTRIC PREHEAT.

8. UNIT TO OPERATE AS VARIABLE SPEED, SINGLE ZONE, AIR HANDLING UNIT. REQUIRES TRANE ZONE SENSOR. REFER TO CONTROL DRAWINGS FOR DETAILS.

9. PROVIDE UNIT WITH PREMANUFACTURERED ROOF CURB, BOTTOM OF UNIT TO MINIMUM 14-INCHES ABOVE TOP OF ROOFING. VERIFY & COORDINATE WITH ROOF CONSTRUCTION AND INSULATION 10. PROVIDE FACTORY DIGITAL DISPLAY PROGRAMMABLE ZONE SENSOR.

11. PROVIDE UNIT WITH CO2 SENSOR AND DEMAND CONTROL VENTILATION PROGRAMMING.

C EQUIPMENT	DUCT DETAILS	PRESSURE CLASS	INSULATION TYPE	INSULATION THICKNE
ROOF TOP UNITS	RECTANGULAR GALVANIZED STEEL	+3 INCH WG	LINED	1 INCH
OF TOP UNITS	RECTANGULAR GALVANIZED STEEL	-2 INCH WG	LINED	1 INCH
EXHAUST FANS	N/A	N/A	N/A	N/A
	RECTANGULAR GALVANIZED STEEL	-1/2 INCH WG	LINED	N/A
FUSERS	2-PLY VINYL, HELICAL STEEL WIRE W/VAPOR BARRIER	+1 INCH WG	FIBROUS-GLASS INSULATION ( R	1-3/4 INCH

## **GRILLES REGISTERS AND DIFFUSERS SCHEDULE**

L									
	REFERENCE	MATERIAL	MARGIN (IN)	INLET (IN)	FACE (IN)	DAMPER	MFR	MODEL	NOTE
	SD-1 (CEILING DIFFUSER)	STEEL	LAY-IN	SEE DWG	24 x 24	NO	TITUS	OMNI	1,2
	RG-1 (RETURN GRILLE)	ALUMINIUM	1 1/4"	SEE DWG	24 x 24	NO	TITUS	PAR-AA	1,2,3
	EG-1 (EXHAUST GRILLE)	ALUMINIUM	1 1/4"	SEE DWG	24 x 24	NO	TITUS	OMNI	1,2

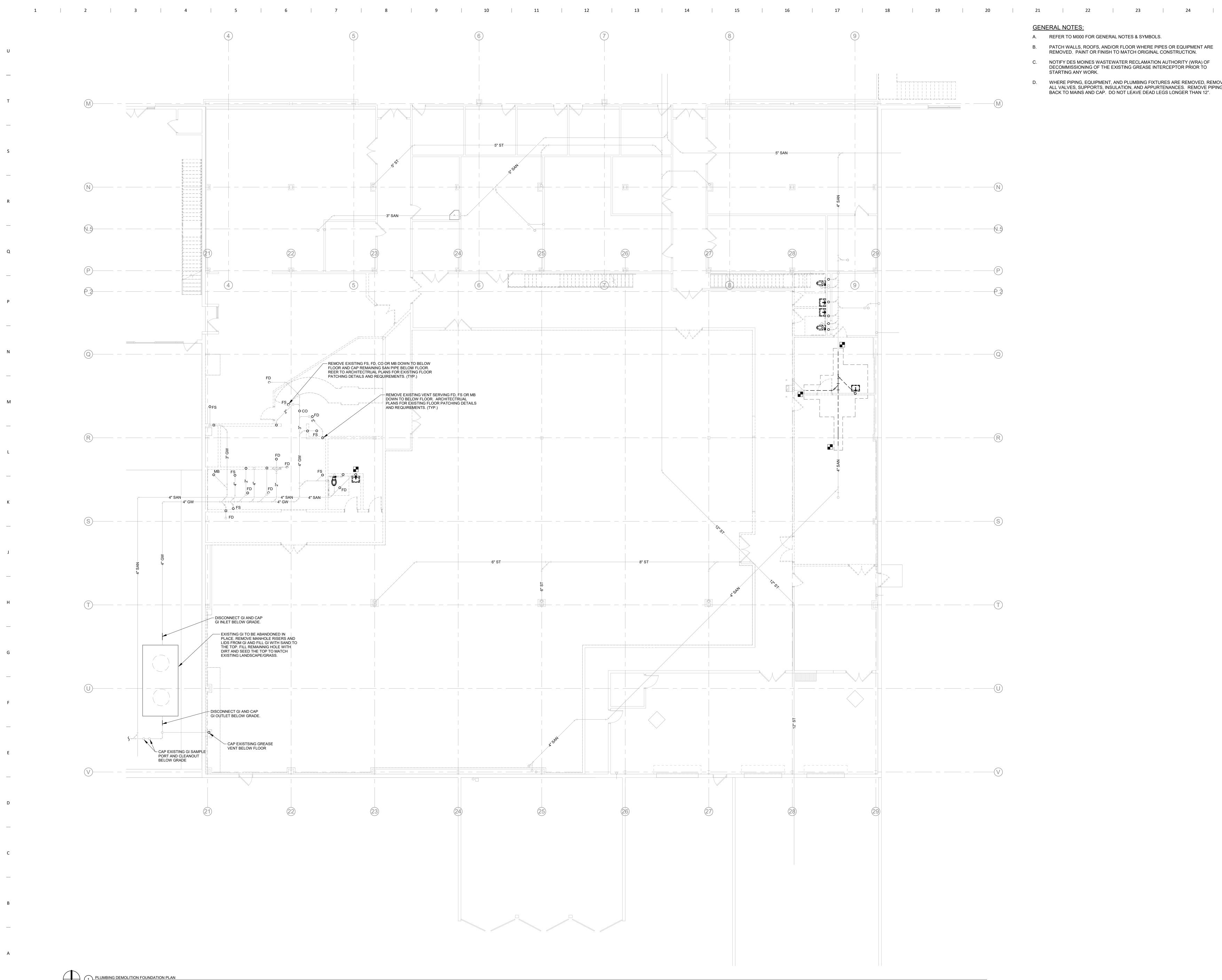
NOTES:

REFER TO ARCH DRAWINGS FOR FINAL CEILING TYPE FOR MOUTING TYPE. 1.

PROVIDE WITH WHITE FINISH. COORDINATE COLOR SELECTION WITH ARCHITECT.

3. PROVIDE THIN LINE RETURN DISSIPATER.





 PLUMBING DEMOLITION FOUNDATION PLAN

 1/8" = 1'-0"

GENERAL NOTES:

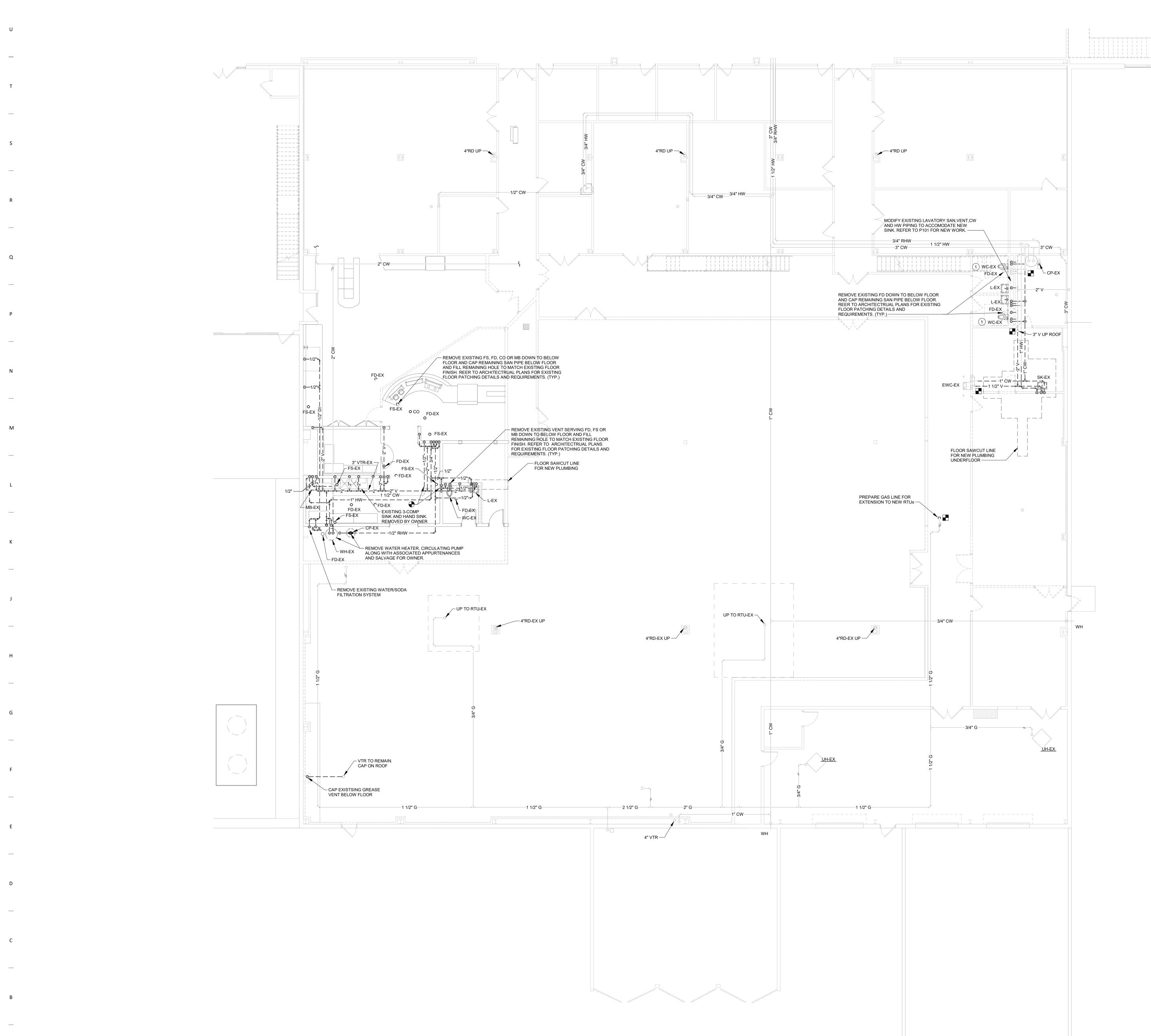
- A. REFER TO M000 FOR GENERAL NOTES & SYMBOLS.
- B. PATCH WALLS, ROOFS, AND/OR FLOOR WHERE PIPES OR EQUIPMENT ARE REMOVED. PAINT OR FINISH TO MATCH ORIGINAL CONSTRUCTION.
- C. NOTIFY DES MOINES WASTEWATER RECLAMATION AUTHORITY (WRA) OF DECOMMISSIONING OF THE EXISTING GREASE INTERCEPTOR PRIOR TO STARTING ANY WORK. D. WHERE PIPING, EQUIPMENT, AND PLUMBING FIXTURES ARE REMOVED, REMOV

ALL VALVES, SUPPORTS, INSULATION, AND APPURTENANCES. REMOVE PIPING BACK TO MAINS AND CAP. DO NOT LEAVE DEAD LEGS LONGER THAN 12".

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	Structural Engineer RAKER RHC 4717 GRAND DES MOINES P. 515-277-0	DES ENGIN AVE , IA 50312	EERING
	Mechanical Enginee KCL ENGINE 300 4TH ST	EERING	
	WEST DES M P. 515-724-7 Electrical Engineer KCL ENGINE		265
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A	1) PLUMBING DEMOLITION PLAN 1/8" = 1'-0"

GENERAL NOTES:

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- STARTING ANY WORK. WHERE PIPING, EQUIPMENT, AND PLUMBING FIXTURES ARE REMOVED, REMOVE ALL VALVES, SUPPORTS, INSULATION, AND APPURTENANCES. REMOVE PIPING BACK TO MAINS AND CAP. DO NOT LEAVE DEAD LEGS LONGER THAN 12".

**KEYNOTES** (#)

REMOVE EXISTING WATER CLOSET, SEAT AND FLUSH VALVE AND REUSE IN NEW LOCATION. 1

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PATCH WALLS, ROOFS, AND/OR FLOOR WHERE PIPES OR EQUIPMENT ARE



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Key Plan

Revision Description

OPN Project No. 24816000

Sheet Issue Date **100% CONSTRUCTION** 8/16/24 DRAWING SET Sheet Name PLUMBING DEMOLITION





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- - 1 PLUMBING FOUNDATION PLAN 1/8" = 1'-0"
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- B. REFER TO P301 FOR PLUMBING DETAILS.
- C. REFER TO P501 FOR PLUMBING SCHEDULES.
- REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR BRANCH PIPE SIZING TO INDIVIDUAL PLUMBING FIXTURES. D.
- E. COORDINATE PIPE ROUTING WITH DUCTWORK. DUCTWORK HAS PRIORITY OVER PRESSURE PIPING.
- F. BRANCH PIPING SHALL BE TAKEN OFF THE TOP OF MAIN PIPING.

KEYNOTES (#)

1 ROUTE TRAP PRIMER LINE TO FLOOR DRAIN.

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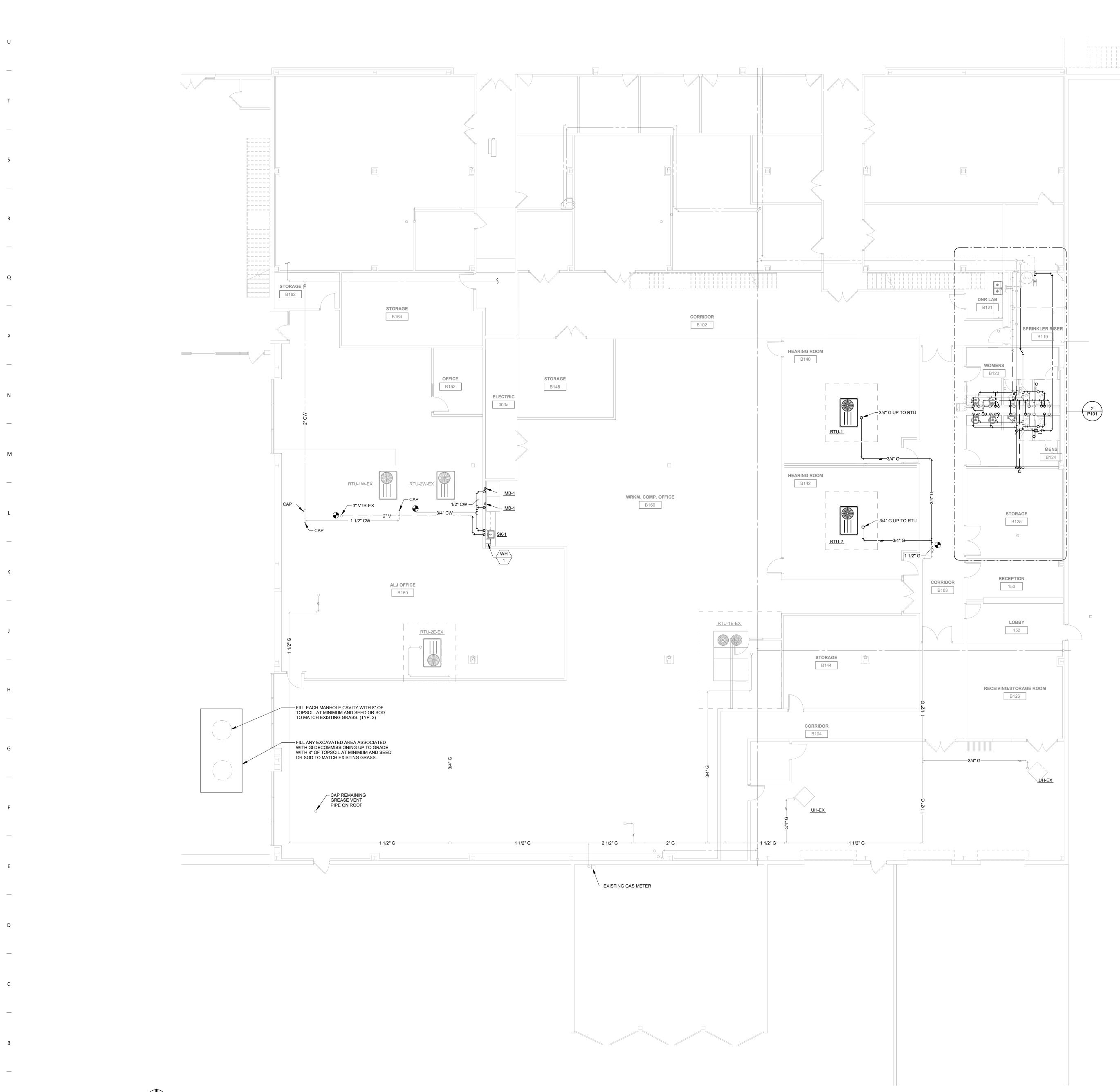
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OPN Project No. 24816000

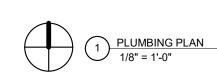
Sheet Issue Date **100% CONSTRUCTION** 8/16/24 DRAWING SET Sheet Name PLUMBING FOUNDATION PLAN Sheet Number

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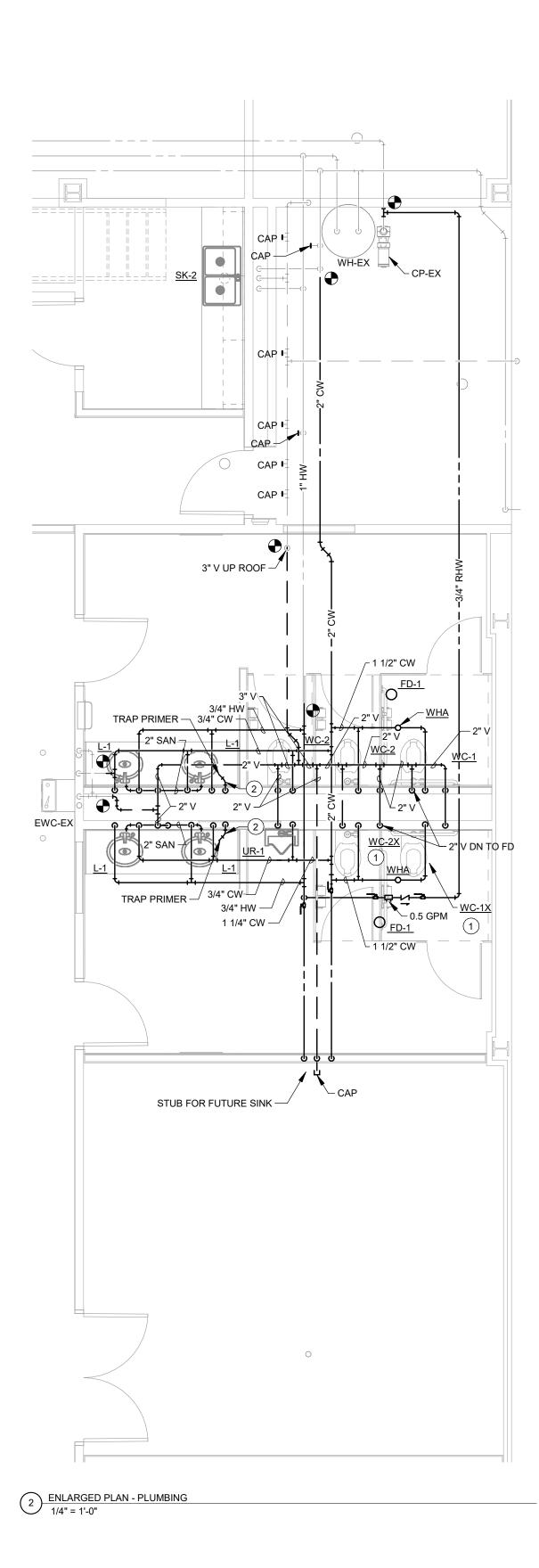
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- E. COORDINATE PIPE ROUTING WITH DUCTWORK. DUCTWORK HAS PRIORITY OVER PRESSURE PIPING.
- F. BRANCH PIPING SHALL BE TAKEN OFF THE TOP OF MAIN PIPING.

#### KEYNOTES (#)

INSTALL USED WATER CLOSET, SEAT AND FLUSH VALVE. 1 2 ROUTE TRAP PRIMER LINE TO FLOOR DRAIN.





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\_\_\_\_\_

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Revision Description

Key Plan

OPN Project No. 24816000

Sheet Number

Sheet Issue Date 100% CONSTRUCTION DRAWING SET Sheet Name PLUMBING PLAN

P101

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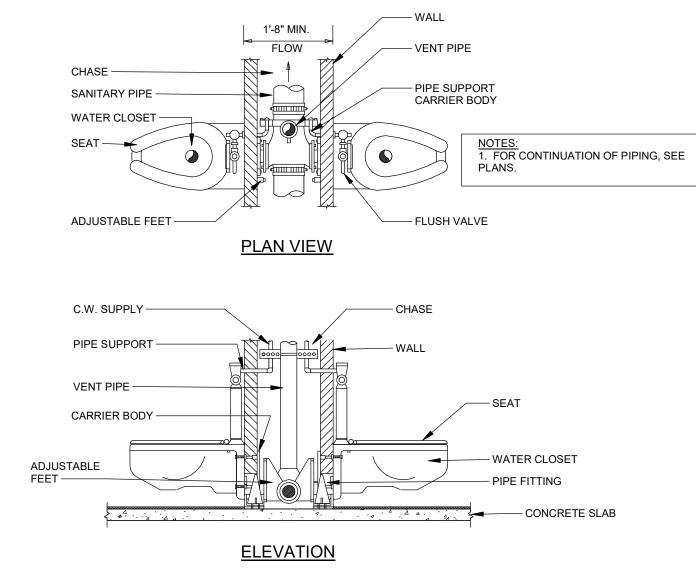
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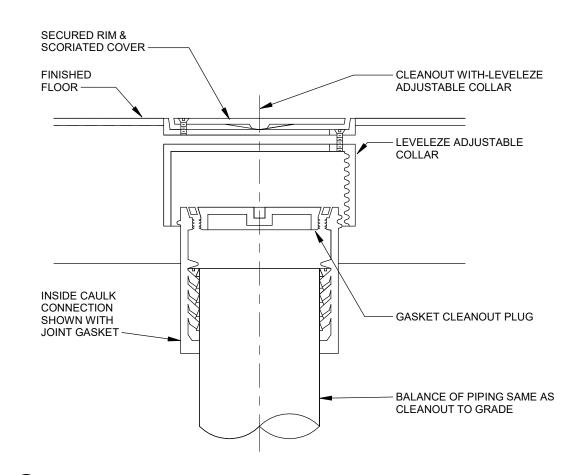
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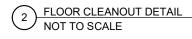
7 PIPE SUPPORT N.T.S.

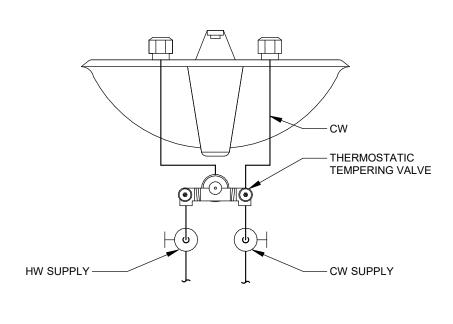






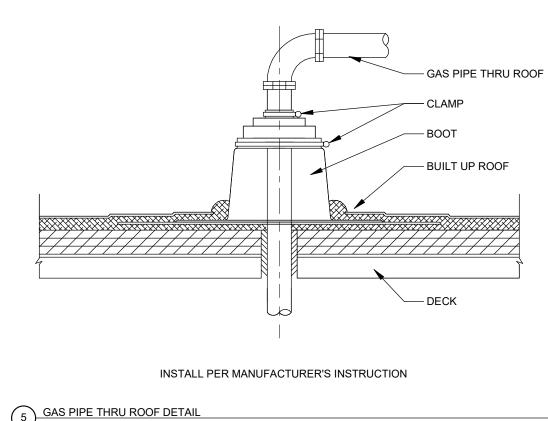


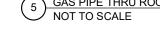


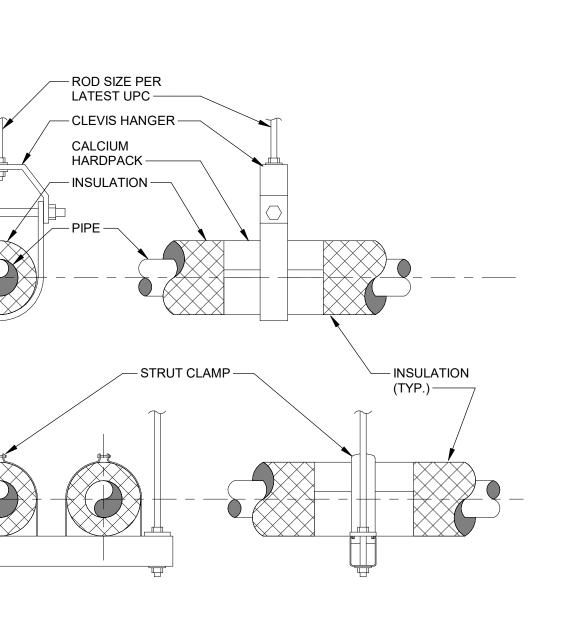


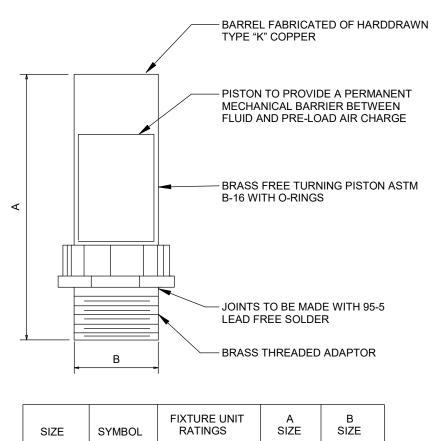


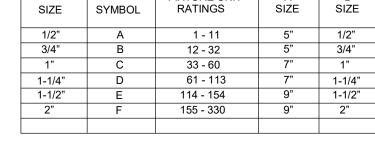
4 POINT-OF-USE MIXING VALVE DETAIL NOT TO SCALE



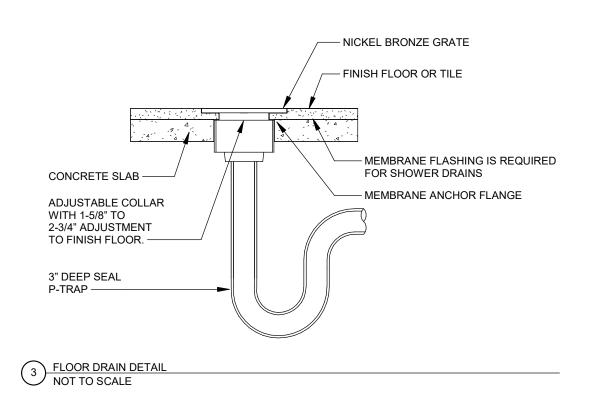








6 WATER SHOCK ARRESTOR DETAIL NTS



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REFERENCE	MFR	MODEL	DESCRIPTION	TRIM				
IMB-1	GUY GRAY	BIM875QTSAB	ICE MAKER OUTLET BOX - 20-GAUGE G90 GALVANIZED ENCLOSURE, 1/2" FIP INLET, 1/4" OD OUTLET QUARTER TURN BRASS BALL VALVE WITH FACEPLATE.	INSTALL BFP-2 DOWNSTREAM OF ICE MAKER OUTLET BOX.				
L-1	N/A	N/A	INTEGRAL TO COUNTERTOP BY OTHERS. PROVIDE TRIM AS SHOWN.	DELTA "591-T1250", ADA COMPLIANT, BATTERY POWERED SENSOR TYPE FAUCET, WITH OFFSET GRID STRAINER AND TRAP, TRUEBRO "102W, 105" CW HW, AND WASTE PIPE GUARDS AND ESCUTCHEONS. MAXIMUM FIXTURE FLOW TO BE 0.5 GPM. PROVIDE POWERS "LFE480" POINT OF USE MIXING VALVE UNDER FIXTURE. MIXING VALVE MUST MEET ASSE 1070 AND UPC 2009 REQUIREMENTS. PROVIDE WITH 1/4 TURN, 3/8" BRASS STOPS. 				
SK-1	ELKAY	ECTRU	ADA, SINGLE BOWL, UNDERMOUNT, 18-GAUGE STAINLESS STEEL, COMPLETELY UNDERCOATED, 19" SIDE TO SIDE x 18" FRONT TO BACK, 16" x 11-1/2" x 5-1/2" DEEP BOWL. OFF-CENTERED REAR DRAIN OPENING. VERIFY FINAL DIMENSIONS FROM ARCH ELEVATION AND MILWORK DRAWINGS. COORDINATE ALL REQUIRED HOLES FOR TRIM AND INDICATE IN	SLOAN "EAF-700-P-ISM", ADA, HARD WIRED, SINGLE HOLE, DECK MOUNT, RIGID GOOSENECK SENSOR TYPE FAUCET WITH 6" REACH, 1.5 GPM LAMINAI FLOW SPRAY INSERT, AND INTEGRAL SPOUT TEMPERATURE MIXER. PROVIDE POWERS "LFLM495" POINT OF USE MIXING UNDER FIXTURE. MIXING VALVE MUST MEET ASSE 1070 AND UPC 2009 REQUIREMENTS. PROVIDE WITH 1/4 TURN STOPS AND 3/8" RISERS.				
SK-2	ELKAY	EFRU	DOUBLE BOWL, UNDERMOUNT, 18-GAUGE STAINLESS STEEL, COMPLETELY UNDERCOATED, 29" SIDE TO SIDE x 22" FRONT TO BACK, EACH BOWL 11 1/2" x 16" x 7 5/8" DEEP. VERIFY FINAL DIMENSIONS FROM ARCH ELEVATION AND MILWORK DRAWINGS. COORDINATE ALL REQUIRED HOLES FOR TRIM AND INDICATE IN SUBMITTAL. REMOVABLE STAINLESS STEEL BASKET	DELTA "9182", BRASS CONSTRUCTION, CHROME-PLATED FINISH, SINGLE HANDLE GOOSENECK FAUCET, SWIVEL SPOUT, 9 3/8" REACH, 1.8 GPM D AERATOR, TWO FUNCTION WAND OPERATION, 20" BRAIDED HOSE, ONE HOLE FAUCET. PROVIDE WITH 1/4 TURN, 3/8" BRASS STOPS.				
TP-1	SIOUX CHIEF	695 SERIES	MECHANICAL TRAP PRIMER. BRASS-PLATED CAP AND BODY. UPC/ASSE LISTED. ACTIVATION WITH 10 PSIG PRESSURE DROP WITH FACTORY SET WATER RELEASE. 1/2" FIP INLET AND 1/2" MIP OUTLET.	SIOUX CHIEF 695-Y WYE SPLITTER OR 695-D DISTRIBUTOR WITH BRASS, COPPER, NO-LEAD BODY AND BRASS BRANCH PIPING. CONTRACTOR TO VERIFY REQUIRED MODEL AND NUMBER OF BRANCHES TO PRIME NEARBY TRAPS.				
UR- 1 (ADA)	KOHLER	K-4991	WALL-MOUNT, SIPHON JET WITH SHIELDS, WHITE, VITREOUS CHINA, REMOVABLE STAINLESS STEEL STRAINER, 3/4" TOP SPUD. FLOOR MOUNTED CARRIER WITH BEARING PLATE, ADA COMPLIANT MOUNTING HEIGHT.	SLOAN ROYAL "186" OR APPROVED EQUAL, 1.0 GPF MANUAL FLUSH VALVE WITH VANDAL RESISTANT CAP.				
WC-1X (WALL/ADA)	EXISTING	EXISTING	REUSE EXISTING WALL HUNG WATER CLOSET, SEAT AND FLUSH VALVE.	PROIVE NEW WATER CLOSET CARRIER. REFER TO SPECIFICATION SECTION 22 40 00.				
WC-2X (WALL)	EXISTING	EXISTING	REUSE EXISTING WALL HUNG WATER CLOSET, SEAT AND FLUSH VALVE.	PROIVE NEW WATER CLOSET CARRIER. REFER TO SPECIFICATION SECTION 22 40 00.				
WC-1 (WALL/ADA)	KOHLER	K-84325	WALL MOUNTED 1.6 GPF, WHITE VITREOUS CHINA, ELONGATED BOWL, SIPHON JET TOILET, BOLT CAPS, 1 1/2" TOP SPUD. ADA COMPLIANT BOWL HEIGHT.	SLOAN "8111-MC" OR APPROVED EQUAL, BATTERY POWERED, 1.6 GPF EXPOSED SENSOR OPERATED FLUSH VALVE WITH VANDAL RESISTANT CAP AND OVERRIDE BUTTON. CHURCH 295SSCT WHITE OPEN FRONT SELF-SUSTAINING HEAVY SEAT, INJECTION MOLDED PLASTIC, STAINLESS STEEL POSTS, ESCUTCHEON.				
WC-2 (WALL)	KOHLER	K-84325	WALL MOUNTED 1.6 GPF, WHITE VITREOUS CHINA, ELONGATED BOWL, SIPHON JET TOILET, BOLT CAPS, 1 1/2" TOP SPUD. STANDARD BOWL HEIGHT.	SLOAN "8111-MC" OR APPROVED EQUAL, BATTERY POWERED, 1.6 GPF EXPOSED SENSOR OPERATED FLUSH VALVE WITH VANDAL RESISTANT CAP AND OVERRIDE BUTTON. CHURCH 295SSCT WHITE OPEN FRONT SELF-SUSTAINING HEAVY SEAT, INJECTION MOLDED PLASTIC, STAINLESS STEEL POSTS, ESCUTCHEON.				
WCO-1	ZURN	Z1446	WALL CLEANOUT TEE, GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, AND ROUND, SMOOTH STAINLESS STEEL WALL ACCESS COVER WITH SECURING SCREW.	ΝΑ				

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NOTES:

1. REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR MINIMUM CONNECTION SIZES

FIXTURE FLOOR DRAIN LAVATORY SINK URINAL (FLUSH VAL WATER CLOSET (FL

NOTES:

## PLUMBING PIPING AND INSULATION SCHEDULE

11 12 13 14 15 16 17

SYSTEM	SIZE RANGE (INCHES)	LOCATION	PIPE MATERIAL (NOTE 1)	JOINT TYPE (NOTE 1)	VALVE TYPES (NOTE 3)	INSULATION TYPE (NOTE 2)	INSULATION THICKNESS (INCHES)	JACKET (NOTE 4)	NOTES
DOMESTIC COLD WATER	3/4 - 1 1/4	ABOVE GROUND	TYPE L COPPER	SOLDER/PRESSURE SEAL	BRONZE BALL W/ SS TRIM	MINERAL FIBER / ELASTOMERIC	1/2	PVC	5
DOMESTIC COLD WATER	3/4 - 1 1/4	IN WALL CAVITY	PEX	METAL INSERT		MINERAL FIBER / ELASTOMERIC	1/2		
DOMESTIC COLD WATER	1 1/2 - 2	ABOVE GROUND	TYPE L COPPER	SOLDER/PRESSURE SEAL	BRONZE BALL W/ SS TRIM	MINERAL FIBER / ELASTOMERIC	1	PVC	5
DOMESTIC HOT WATER	3/4 - 1 1/4	ABOVE GROUND	TYPE L COPPER	SOLDER/PRESSURE SEAL	BRONZE BALL W/ SS TRIM	MINERAL FIBER / ELASTOMERIC	1	PVC	5
DOMESTIC HOT WATER	3/4 - 1 1/4	IN WALL CAVITY	PEX	METAL INSERT		MINERAL FIBER / ELASTOMERIC	1		
DOMESTIC HOT WATER	1 1/2 - 2	ABOVE GROUND	TYPE L COPPER	SOLDER/PRESSURE SEAL	BRONZE BALL W/ SS TRIM	MINERAL FIBER	1 1/2		5
DOMESTIC HOT WATER	2 1/2 - 8	ABOVE GROUND	TYPE L COPPER	GROOVED		MINERAL FIBER	1 1/2	PVC	5
DOMESTIC HOT WATER CIRC	3/4 - 1 1/4	ABOVE GROUND	TYPE L COPPER	SOLDER/PRESSURE SEAL	BRONZE BALL W/ SS TRIM	MINERAL FIBER / ELASTOMERIC	1	PVC	5
DOMESTIC HOT WATER CIRC	3/4 - 1 1/4	IN WALL CAVITY	PEX	METAL INSERT		MINERAL FIBER / ELASTOMERIC	1		
SANITARY DRAIN (GRAVITY)	1 1/2 - 8	BELOW GROUND	SCH 40 PVC DWV / CI	SOLVENT / HUB & SPIGOT	N/A				
SANITARY VENT PIPING	1 1/4 - 4	BELOW GROUND	SCH 40 PVC DWV / CI	SOLVENT / HUB & SPIGOT	N/A	-			
SANITARY DRAIN (GRAVITY)	1 1/2 - 8	ABOVE GROUND	SCH 40 PVC DWV / CI	SOLVENT / NO HUB	N/A	-			
SANITARY VENT PIPING	1 1/4 - 6	ABOVE GROUND	SCH 40 PVC DWV / CI	SOLVENT / NO HUB	N/A	MINERAL FIBER	1		5,6

NOTES:

1. ALL PIPING UTILIZED FOR POTABLE WATER SHALL MEET NSF 14, 61 AND 372. PUSH TO CONNECT / PUSH ON TYPE JOINTS ARE NOT ALLOWED. REFER TO SPECIFICATIONS FOR FURTHER JOINT AND MATERIAL REQUIREMENTS. 2. REFER TO SPECIFICATIONS FOR FURTHER INSULATION REQUIREMENTS. INSULATION R-VALUE SHALL MEET INTERNATIONAL ENERGY CODE 2015 REQUIREMENTS.

3. ALL VALVES UTILIZED IN POTABLE WATER SYSTEMS SHALL MEET NSF 61 AND 372. REFER TO SPECIFICATIONS FOR FURTHER VALVE REQUIREMENTS.

4. EXPOSED PIPING MOUNTED BELOW 10'-0" ABOVE FLOOR SHALL HAVE PVC JACKET.

5. INSULATION APPLIED TO PIPING THAT IS LOCATED IN RETURN AIR PLENUMS SHALL MEET ASTM E 84 25/50 FLAME AND SMOKE SPREAD RATING AND COMPLY WITH NFPA STANDARD 90A.

6. VENT PIPING SHALL BE INSULATED A MINIMUM OF 5'-0" FROM EXTERIOR WALL OR ROOF PENETRATION.

## PLUMBING FIXTURE ROUGH-IN SCHEDULE

	CW	HW	VENT	WASTE	NOTES
	-	-	2"	4"	1
	1/2"	1/2"	1 1/4"	1 1/4"	1,2
	1/2"	1/2"	1 1/2"	1 1/2"	1,2
ALVE)	3/4"	-	1 1/2"	2"	1
LUSH VALVE)	1"	-	2"	4"	1

#### 1. ALL SIZES SHOWN ARE MINIMUM CONNECTION SIZES, REFER TO DRAWINGS FOR FINAL SIZES.

2. ALL VERTICAL WASTE RISERS TO FIXTURES AND ALL BELOW FLOOR WASTE SIZES SHALL BE A MINIMUM OF 2".

## WATER HEATER

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REFERENCE	WH-1
MANUFACTURER	EEMAX
MODEL #	EMT2.5
SERVES	SK-1
DIMENSIONS (WxDxH)	11x11x17
GALLONS	2.5
RECOVERY GPH 60°F RISE	19
KW	1.44
DELIVERY WATER TEMP (°F)	110
VOLTAGE/PH	120/1
NOTES	1,2,3,4

NOTES:

1. PROVIDE WITH ASME RATED T&P RELIEF VALVE.

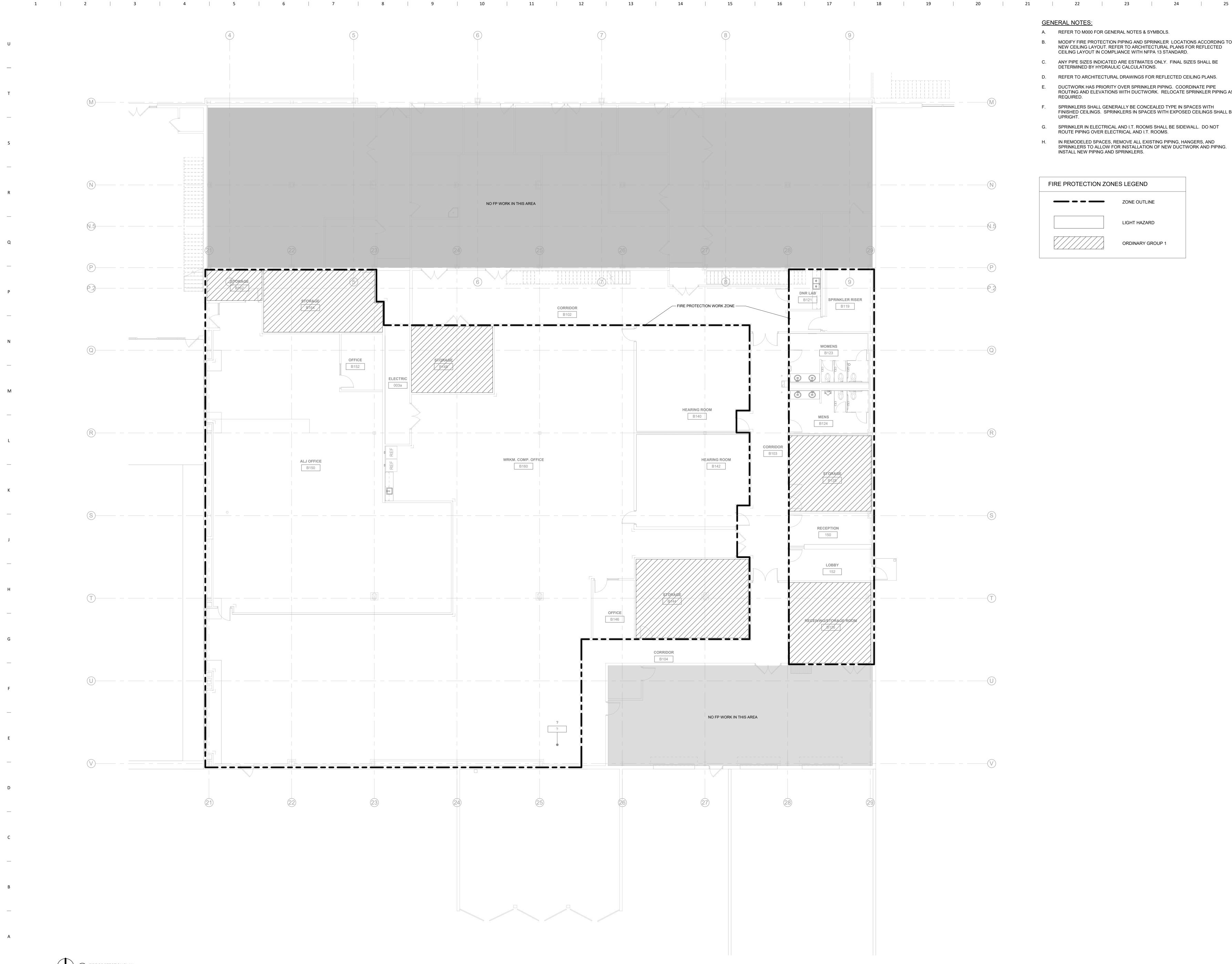
2. UNIT TO MEET REQUIREMENTS OF IECC 2012.

3. PROVIDE WITH PLUG-IN CONNECTION. RECEPTICLE UNDER SINK BY EC.

4. INSTALL PER MANUFACTUERS RECOMMENDATIONS.

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Electrical Engineer KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 5026 P. 515-724-7938	5
Key Plan	
Revision Description	Date
OPN Project No. 24816000 Sheet Issue Date 100% CONSTRUCTION	8/16/24
DRAWING SET Sheet Name PLUMBING SCHEDU	
Sheet Number	P501

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1) FIRE PROTECTION PLAN 1/8" = 1'-0"

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GENERAL NOTES:

- A. REFER TO M000 FOR GENERAL NOTES & SYMBOLS. B. MODIFY FIRE PROTECTION PIPING AND SPRINKLER LOCATIONS ACCORDING TO
- NEW CEILING LAYOUT. REFER TO ARCHITECTURAL PLANS FOR REFLECTED CEILING LAYOUT IN COMPLIANCE WITH NFPA 13 STANDARD.
- C. ANY PIPE SIZES INDICATED ARE ESTIMATES ONLY. FINAL SIZES SHALL BE
- DETERMINED BY HYDRAULIC CALCULATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS. D.
- DUCTWORK HAS PRIORITY OVER SPRINKLER PIPING. COORDINATE PIPE
- ROUTING AND ELEVATIONS WITH DUCTWORK. RELOCATE SPRINKLER PIPING AS REQUIRED.
- SPRINKLERS SHALL GENERALLY BE CONCEALED TYPE IN SPACES WITH F. FINISHED CEILINGS. SPRINKLERS IN SPACES WITH EXPOSED CEILINGS SHALL BE UPRIGHT.
- SPRINKLER IN ELECTRICAL AND I.T. ROOMS SHALL BE SIDEWALL. DO NOT ROUTE PIPING OVER ELECTRICAL AND I.T. ROOMS. G.
- H. IN REMODELED SPACES, REMOVE ALL EXISTING PIPING, HANGERS, AND SPRINKLERS TO ALLOW FOR INSTALLATION OF NEW DUCTWORK AND PIPING. INSTALL NEW PIPING AND SPRINKLERS.

FIRE PROTECTION ZON	IES LEGEND
<b></b>	ZONE OUTLINE
	LIGHT HAZARD
	ORDINARY GROUP 1

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Revision Descript

Key Plan

OPN Project No. 24816000

Sheet Issue Date 100% CONSTRUCTION DRAWING SET Sheet Name FIRE PROTECTION PLAN

Sheet Number

F101

	1		2	3	i		4   5   6   7   8
					<u>BL</u> 1.		ING EQUIPMENT COORDINATION NOTES - ELECTRICAL REFER TO EQUIPMENT CONNECTION SCHEDULE FOR COORDINATION DETAILS BETWEEN
U					2.		MECHANICAL AND ELECTRICAL SYSTEMS. PROVIDE AND INSTALL ELECTRICAL SYSTEMS UNDER THIS CONTRACT MEETING THE REQUIREMENTS OF THE SPECIFIED MECHANICAL, FIRE PROTECTION, AND PLUMBING SYSTEMS. REFERENCE THE ENTIRE PROJECT DOCUMENTS, MANUALS, SCHEDULES, DETAILS,
_					3.		AND NOTES. PROVIDE ELECTRICAL CONNECTIONS AND ACCESSORIES INCLUDING STARTERS, DISCONNECTS, CONTROL WIRING, ETC. AS REQUIRED FOR THE BUILDING MECHANICAL
т							EQUIPMENT. INFORMATION HEREIN AND ON THE DRAWINGS IS FOR GENERAL DESCRIPTION AND ESTIMATING PURPOSES ONLY. VERIFY VOLTAGE, AMPERAGE, PHASE, INRUSH, ETC. FOR EACH ITEM OF EQUIPMENT BEFORE PROCEEDING WITH INSTALLATION. INSTALL EQUIPMENT PER WIRING DETAILS AND INSTRUCTIONS FURNISHED BY THE SUPPLIERS OF THE EQUIPMENT TO PROVIDE PROPER OPERATION.
_					4.		REVIEW MECHANICAL EQUIPMENT SHOP DRAWINGS FOR COMPLIANCE AND COORDINATION WITH ELECTRICAL CONNECTIONS. NOTIFY ENGINEER IF CHANGES TO ELECTRICAL CONNECTIONS, WIRING, AND BREAKER REQUIREMENTS ARE NECESSARY TO ACCOMMODATE EQUIPMENT BEING SUPPLIED.
S							a. DO NOT RELEASE ELECTRICAL DISTRIBUTION EQUIPMENT UNTIL ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL INFRASTRUCTURE HAS BEEN SUBMITTED AND APPROVED. MAKE COORDINATION ADJUSTMENTS TO BREAKER SIZES AND SIMILAR CHANGES TO ELECTRICAL EQUIPMENT PRIOR TO SUBMITTAL RELEASE. COORDINATE
_					5.		SCHEDULING OF SHOP DRAWINGS WITH ALL TRADES. PROVIDE DISCONNECTS RATED FOR EQUIPMENT AS REQUIRED AND AS INDICATED WITHIN EQUIPMENT CONNECTION SCHEDULE. COORDINATE DISCONNECT MOUNTING TO ALLOW EQUIPMENT REMOVAL WITHOUT DISCONNECT REMOVAL AND TO MINIMIZE WIRING WORK REQUIRED.
R					6.		PROVIDE HEAVY DUTY TYPE DISCONNECTS RATED FOR THE INSTALLED ENVIRONMENT. PROVIDE MINIMUM NEMA 3R RATED DISCONNECTS FOR EXTERIOR INSTALLATIONS OR AS NOTED.
_					7.		VERIFY LOCATIONS OF ALL EQUIPMENT. REFER TO MECHANICAL, PLUMBING, AND ARCHITECTURAL DRAWINGS AND COORDINATE WITH THE ASSOCIATED SUB-CONTRACTOR. ADJUST ELECTRICAL INSTALLATION AS REQUIRED.
0					<u>CC</u> 1.		NOTES - ELECTRICAL PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH ALL STATE CODES.
Q —					2.		THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE IS THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH LOCAL OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DISCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.
					3.		INSTALLATION SHALL FOLLOW REQUIREMENTS OF THE ADAAG –AMERICANS WITH DISABILITIES ACT.
Ρ					4.		REFER TO PROJECT MANUAL AND PROJECT CODE REVIEW SHEET FOR LIST OF APPLICABLE CODES.
_					<u>DE</u> 1.		ELITION AND RENOVATION NOTES - ELECTRICAL ELECTRICAL DEMOLITION DRAWINGS SHOWING EXISTING CONDITIONS HAVE BEEN PREPARED BASED ON FIELD OBSERVATION AND ORIGINAL DRAWINGS. FIELD VERIFY EXISTING
N					2.		CONDITIONS BEFORE WORK BEGINS. ADDITIONAL COMPONENTS MAY EXIST WHICH ARE NOT SHOWN. BECOME FAMILIAR WITH EXISTING ELECTRICAL SYSTEM WHICH WILL BE AFFECTED BY THE DEMOLITION WORK. PROVIDE EQUIPMENT, LABOR, AND MATERIALS TO REMOVE ELECTRICAL FACILITIES AND
					2.		CLEAR THE AREA TO RECEIVE THE NEW WORK PROVIDED UNDER THIS CONTRACT.
М							AFFECTED BY PROJECT SCOPE OPERATIONAL THROUGH THE DURATION OF THE PROJECT. OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND THE LIMITS OF THE DEMOLITION AREA. INFORM OWNER'S REPRESENTATIVE OF THE REASON FOR AND DURATION OF THE SHUTDOWN AND ENSURE THAT THE SHUTDOWN IS MADE WITH AS LITTLE INCONVENIENCE TO OTHER AREAS AS POSSIBLE.
					4.		REMOVE CONDUITS, BOXES, ETC., AS REQUIRED BY WALL, CEILING, AND ADJACENT COMPONENTS DEMOLITION. REMOVE EXISTING WIRE UNLESS OTHERWISE NOTED.
_					5.		INSTALL NEW CONDUCTORS FOR NEW CIRCUITS IN REMODELED AREAS UNLESS SPECIFICALLY NOTED OTHERWISE. RETAIN EXISTING CONDUITS IN GOOD CONDITION WHERE APPROVED BY ENGINEER OR AS INDICATED.
L					6.		IDENTIFY DISCONNECTED BRANCH CIRCUIT LOCATION OR ITEM SERVED BEFORE DISCONNECTION. UPDATE PANEL/EQUIPMENT DIRECTORY ACCORDINGLY.
_					7. 8.		MAINTAIN CIRCUITS SERVING AREAS BEYOND THE DEMOLITION AREA. EXTEND NEW WIRING AND BYPASS DEMOLISHED DEVICES TO MAINTAIN EXISTING CIRCUITS. KEEP EXISTING SYSTEMS OPERATIONAL DURING ALL PHASES OF CONSTRUCTION. DO NOT
					-		CUT EXISTING TELECOMMUNICATION WIRING, CABLES OR CONDUIT. CONTRACTORS WHO CUT IN-SERVICE CABLES ARE RESPONSIBLE FOR ALL DOWNTIME AND COSTS TO REPAIR.
К					9.		INSTALL BLANK COVER PLATES OVER OPENING AT REMOVED DEVICE LOCATIONS. THIS INCLUDES BUT IS NOT LIMITED TO, CLOCKS, RECEPTACLES, SWITCHES, JUNCTION BOXES, ETC.
_					10. 11.		PROVIDE CUTTING AND PATCHING OF EXISTING MATERIALS AS REQUIRED FOR THE PROPER COMPLETION OF THE DEMOLITION WORK AND THE INSTALLATION OF THE NEW WORK. MAINTAIN FULL FUNCTIONAL AND AESTHETIC INTEGRITY OF DEVICES IDENTIFIED TO BE REMOVED AND RELOCATED, AND HANDLE WITH APPROPRIATE CARE TO ALLOW FOR REINSTALLATION. REPLACE DEVICES DAMAGED DURING DEMOLITION WITH NEW AT
J					12.		CONTRACTOR'S EXPENSE. EQUIPMENT AND SYSTEM THAT ARE REMOVED REMAIN THE PROPERTY OF THE OWNER UNLESS OTHERWISE NOTED. DISPOSE OF ALL MATERIALS NOT SALVAGED BY THE OWNER.
—					13.		REMOVE AND REINSTALL CEILING TILES REQUIRED FOR THE WORK BEING DONE UNDER THIS CONTRACT. REPLACE CEILING TILES DAMAGED DURING CONSTRUCTION TO MATCH EXISTING.
н					1.		CE INSTALLATION AND MATERIALS - ELECTRICAL PROVIDE NORMAL WIRING DEVICES AS <u>GRAY</u> UNLESS OTHERWISE NOTED.
_					2. 3.		PROVIDE DEVICES COVER PLATES AS <u>STAINLESS STEEL</u> . MATCH WIRING DEVICES COLOR. PROVIDE GFCI TYPE RECEPTACLES AT ALL LOCATIONS REQUIRED BY THE NEC.
					4. 5.		INSTALL WALL MOUNTED RECEPTACLES AT +18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. INSTALL WALL MOUNTED LIGHT SWITCHES AT +48" ABOVE FINISHED FLOOR UNLESS
G							OTHERWISE NOTED. EXCEPTION; INSTALL DEVICES ABOVE AN OBSTRUCTED HIGH FORWARD REACH OBSTACLE GREATER THEN 20 INCHES IN DEPTH AT +42".
_					6. 7.		INSTALL ABOVE COUNTERTOP RECEPTACLES +8" ABOVE COUNTERTOP OR AS OTHERWISE INDICATED. AT A COMMON COUNTERTOP, INSTALL ALL RECEPTACLES AND SWITCHES AT THE SAME HEIGHT UNLESS OTHERWISE SPECIFICALLY INDICATED.
F					IN		ALLATION NOTES - ELECTRICAL
_					 1. 2.		BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BID.
_					3.		CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP. RACEWAYS AND BOXES ARE SHOWN DIAGRAMMATICALLY ONLY AND INDICATE GENERAL
E					4.	-	AND APPROXIMATE LOCATIONS. LAYOUTS DO NOT ALWAYS SHOW THE TOTAL NUMBER OF RACEWAYS OR BOXES FOR THE CIRCUITS REQUIRED, NOR ARE THE LOCATIONS OF INDICATED RUNS INTENDED TO SHOW THE ACTUAL ROUTING OF THE RACEWAYS. LIGHT FIXTURES, SWITCHES, DEVICES, ETC. ARE SHOWN IN PREFERRED LOCATION. MODIFY CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A COMPLETE AND
					5.		OPERATIONAL SYSTEM. PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. DO
D					6.		NOT USE CONDUIT SYSTEM AS THE ONLY EQUIPMENT GROUNDING METHOD. DO NOT INSTALL BOXES BACK-TO-BACK ON OPPOSITE SIDES OF THE SAME WALL. MAINTAIN MINIMUM OF 8" DISTANCE BETWEEN BOXES WHEREVER APPLICABLE.
_					7.		BALANCE PANEL LOADS DURING INSTALLATION. CIRCUIT NUMBERING SHOWN ON PLANS MAY BE ADJUSTED TO ACCOMMODATE.
C					8.		PROVIDE TYPED PANEL DIRECTORY AT PROJECT COMPLETION FOR NEW PANELS AND EXISTING PANELS WITH CIRCUITS MODIFIED AS A RESULT OF THIS PROJECT. USE OWNER'S CURRENT ROOM NUMBERS AND EQUIPMENT NAMES.
_					9.		CONTRACTOR IS RESPONSIBLE FOR OPENINGS IN WALLS, FLOORS, CEILINGS, AND ROOFS THAT ARE REQUIRED TO COMPLETE THEIR SCOPE OF WORK. SEAL PENETRATIONS IN ACCORDANCE WITH THE RATING OF THE AFFECTED ASSEMBLY. REFER TO ARCHITECTURAL CODE PLAN FOR RATED WALLS, FLOORS, AND CEILINGS.
В					<u>IN</u> 1.		ALLATION NOTES - LIGHTING UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN- SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE FIXTURES SPACE. MAINTAIN NORMAL SWITCHING SCHEME OF EMERGENCY FIXTURES UNDER NORMAL OPERATION.
_					2.		INSTALL PER EMERGENCY FIXTURE OR TRANSFER DEVICE INSTRUCTIONS. VERIFY CEILING TYPE (IE. GRID, GYP) WITH ARCHITECTURAL REFLECTED CEILING PLANS PRIOR TO RELEASE OF LIGHTING FIXTURE EQUIPMENT PACKAGE. ADJUST FIXTURE TYPE, CONSTRUCTION, FLANGE, OR OTHER COORDINATION DETAILS AS REQUIRED FOR CEILING
A					3.		TYPE. LIGHTING CONTROLS SENSORS ARE SHOWN ON PLANS AT SUGGESTED LOCATIONS ONLY. VERIFY LOCATIONS WITH MANUFACTURER GUIDELINES AND INSTALLATION RECOMMENDATIONS. ADJUST LOCATIONS AS REQUIRED TO MEET MANUFACTURER GUIDELINES.
					4.		PROVIDE LIGHTING CONTROLS AS A COMPLETE SYSTEM AND INCLUDE MATERIAL AND INSTALLATION FOR ALL POWER PACKS, ACCESSORIES, CONTROLLERS, AND WIRING REQUIRED FOR OPERATION.

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A	DEVICE MOUNTED +8" ABOVE	NIC	NOT IN CONTRACT
	COUNTER TOP (VERIFY LOCATION)	NM	NONMETALLIC
AFF	ABOVE FINISHED FLOOR	NTS	NOT TO SCALE
ATS	AUTOMATIC TRANSFER SWITCH	OC	ON CENTER
2	CEILING	OFCI	OWNER FURNISHED
СВ	CIRCUIT BREAKER		CONTRACTOR INSTALLED
СТ	CURRENT TRANSFORMER	OFOI	OWNER FURNISHED,
E	EXISTING ITEM TO REMAIN		OWNER INSTALLED
EC	ELECTRICAL CONTRACTOR	R	EXISTING ITEM TO BE REMOVED
EM	EMERGENCY LIGHT FIXTURE	RR	EXISTING ITEM TO BE REMOVED AND
ER	NEW LOCATION OF EXISTING ITEM		RELOCATED
F	ROUGH IN FOR FUTURE DEVICE	RN	EXISTING ITEM TO BE REMOVED AND
	FIRE ALARM ANNUNCIATOR PANEL		REPLACED WITH NEW
FACP	FIRE ALARM CONTROL PANEL		SHORT CIRCUIT CURRENT RATING
FSD	FIRE SMOKE DAMPER	T	TAMPER PROOF DEVICE
G	GROUND FAULT CIRCUIT INTERRUPTER		TEMPERATURE CONTROL CONTRACTOR
GND	GROUND	TV	TELEVISION
KVA	KILO-VOLT-AMPERES	TYP	
KW	KILOWATTS	UPS	UNINTERRUPTIBLE POWER SUPPLY
MC	MECHANICAL CONTRACTOR	V	VOLTS
MCB	MAIN CIRCUIT BREAKER	VA	
MDP MLO	MAIN DISTRIBUTION PANEL MAIN LUGS ONLY	WG WP	WIREGUARD COVER WEATHERPROOF DEVICE
NLO N	NEW DEVICE IN EXISTING LOCATION	WR	WEATHER RESISTANT DEVICE
IN		+24"	INDICATES MOUNTING HEIGHT CENTER
		<b>⊤∠4</b>	LINE OF DEVICE TO FINISHED FLOOR

**GENERAL NOTES - ELECTRICAL** 

1. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. BEGIN INSTALLATION AND ROUGH-IN ONLY AFTER PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION IS COMPLETE. COORDINATE WITH BUILDING STRUCTURE, ARCHITECTURE, MECHANICAL SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, EQUIPMENT ACCESS/CLEARANCE, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REWORK OF INSTALLED EQUIPMENT RESULTING FROM INSUFFICIENT COORDINATION.

2. ELECTRICAL DRAWINGS ARE ONLY A PORTION OF THE COMPLETE SET OF PLANS AND CONTRACT DOCUMENTS. THE ELECTRICAL SCOPE OF WORK IS DEFINED BY THE COMPLETE SET OF CONTRACT DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO REFERENCING; ARCHITECTURAL PLANS FOR DIMENSIONS AND DETAILS; EQUIPMENT PLANS FOR ROUGH-IN REQUIREMENTS, MECHANICAL PLANS FOR EQUIPMENT SIZES AND LOCATIONS.

	of C	)) Of C		\$\/c
COMMUNICATIONS - TELECOM SYSTEMS:				
ROUGH-IN, PATHWAYS AND SLEEVES				
RACKS, FRAMES AND ENCLOSURES				
CABLE MANAGEMENT				
UNINTERRUPTIBLE POWER SUPPLIES (RACK MOUNT)				
PLYWOOD BACKBOARDS				
COPPER BACKBONE CABLING				
OPTICAL FIBER BACKBONE CABLING				
COAXIAL BACKBONE CABLING	N/A	N/A	N/A	N/
COPPER HORIZONTAL CABLING				
OPTICAL FIBER HORIZONTAL CABLING				
COAXIAL HORIZONTAL CABLING	N/A	N/A	N/A	N/
DATA COMMUNICATIONS SWITCHES AND HUBS				
DATA COMMUNICATIONS WIRELESS ACCESS POINTS				
VOICE COMMUNICATIONS SWITCHING AND ROUTING EQUIPMENT				
COMMUNICATIONS - AUDIO-VISUAL SYSTEMS:				
ROUGH-IN, PATHWAYS AND SLEEVES				
PROJECTOR(S)		<u> </u>	<u> </u>	<u> </u>
FLAT PANEL DISPLAY(S)		<u> </u>		-
MULTI-TOUCH DISPLAY(S)				
DISPLAY TECHNOLOGY MOUNTING HARDWARE				
MEDIA PLAYER(S)		<u> </u>		
HEAD-END EQUIPMENT				
COMMUNICATIONS - DISTRIBUTED SYSTEMS:				
ROUGH-IN, PATHWAYS AND SLEEVES		<u> </u>		
MASTER ANTENNA / COMMUNITY ANTENNA TELEVISION DISTRIBUTION	N/A	N/A	N/A	N/
PUBLIC ADDRESS SYSTEM	N/A	N/A	N/A	N/
SOUND MASKING / SPEECH PRIVACY SYSTEM				
INTERCOMMUNICATIONS SYSTEM				
WIRED / WIRELESS CLOCK SYSTEM		<u> </u>		
NURSE CALL / CODE BLUE SYSTEM	N/A	N/A	N/A	N/
DISTRIBUTED ANTENNA SYSTEM	N/A	N/A	N/A	N/
SECURITY - ACCESS CONTROL:				
ROUGH-IN, PATHWAYS AND SLEEVES				
SECURITY MANAGEMENT SYSTEM - HEAD END COMPONENTS				
SECURITY MANAGEMENT SYSTEM - FIELD DEVICES				
SECURITY MANAGEMENT SYSTEM - ELECTRIFIED DOOR HARDWARE				
SECURITY MANAGEMENT SYSTEM - ALL CABLING				
SECURITY - VIDEO INTERCOM:				
ROUGH-IN, PATHWAYS AND SLEEVES				
DOOR STATION(S)				
HEAD END EQUIPMENT AND COMPONENTS				
SECURITY - VIDEO SURVEILLANCE:				
ROUGH-IN, PATHWAYS AND SLEEVES				
CAMERA(S)				
HEAD END EQUIPMENT AND COMPONENTS				
SECURITY - INTRUSION DETECTION:				
ROUGH-IN, PATHWAYS AND SLEEVES	N/A	N/A	N/A	N/
FIELD DEVICES (MOTION DETECTORS, GLASS BREAKS, DOOR SWITCHES)	N/A	N/A	N/A	N/
HEAD END EQUIPMENT AND COMPONENTS	N/A	N/A	N/A	N/
SAFETY - FIRE DETECTION AND ALARM:				
ROUGH-IN, PATHWAYS AND SLEEVES				
INITIATING FIELD DEVICES (SMOKE, MANUAL PULL, MONITOR MODULES)	 			
NOTIFICATION APPLIANCES (HORNS, STROBES, SPEAKERS)				
MISCELLANEOUS DEVICES (RELAYS, TEST STATION, ANNUNCIATOR)				
OFOI OWNER FURNISHED & OWNER INSTALLED				
OFOI <u>o</u> wner <u>f</u> urnished & <u>o</u> wner <u>i</u> nstalled				
OFCI OWNER FURNISHED & OWNER INSTALLED				
	LED			

SCOPE AND SHOULD ONLY BE USED TO QUICKLY IDENTIFY SYSTEMS AND RELATED INFRASTRUCTURE INSIDE AND OUTSIDE THE BID OF THIS PROJECT. ANY ITEMS FURNISHED OR INSTALLED BY THE BIDDING CONTRACTOR SHALL COVER ALL REQUIRED APPURTENANCES NECESSARY FOR A COMPLETE SYSTEM. THIS SHALL INCLUDE BUT NOT BE LIMITED TO, EQUIPMENT, ACCESSORIES, TERMINATIONS, TERMINATION COMPONENTS, ALL FINAL CORDAGE CONNECTIVITY, SOFTWARE, PROGRAMMING, AND THE LABOR TO INSTALL.

a	RECESSED LIGHT FIXTURE, LETTER INDICATES SWITCH LEG (TYPICAL), SHADING INDICATES EMERGENCY LIGHT (TYPICAL)
0	ROUND LIGHT FIXTURE - SURFACE MOUNTED
$\odot$	PENDANT MOUNTED LIGHT FIXTURE
$\vec{\oslash}$	ROUND APERTURE RECESSED DOWNLIGHT FIXTURE, ARROW INDICATES WALLWASH
0	SURFACE MOUNTED STRIP FIXTURE
••	LINEAR PENDANT MOUNTED FIXTURE
<b>o</b> I	INDUSTRIAL STRIP LIGHT FIXTURE
4	EMERGENCY LIGHT FIXTURE, WALL MOUNT, +96" OR AS NOTED
<b>M</b>	EMERGENCY LIGHT FIXTURE, CEILING MOUNT
${\bf \nabla}$	EXIT SIGN, WALL MOUNT +96", SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
₿	EXIT SIGN, CEILING MOUNT, SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
	COMBINATION EXIT SIGN & EMERGENCY LIGHT, WALL MOUNT +96", SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
	COMBINATION EXIT SIGN & EMERGENCY LIGHT, CEILING MOUNT, SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
머	EXTERIOR LIGHT FIXTURE, WALL MOUNT +10', OR AS NOTED
Ю	INTERIOR LIGHT FIXTURE, WALL MOUNT
	EXTERIOR POLE MOUNTED LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
$\oplus$	BOLLARD LIGHT FIXTURE
₽	EXTERIOR FLOOD LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
▶	EMERGENCY REMOTE HEAD LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
<b>\$</b> a	SINGLE POLE SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG
<b>\$</b> <sup>3</sup> b	THREE WAY SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG
S1 De	LIGHTING CONTROLS LOW VOLTAGE SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
<sup>1</sup> ∲ <sub>c</sub>	OCCUPANCY SENSOR, WALL MOUNT +48" OR AS NOTED, NUMBER INDICATES TYPE, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
<sup>2</sup> a	OCCUPANCY SENSOR, CEILING MOUNT, NUMBER INDICATES TYPE, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
2 2	DAYLIGHTING SENSOR, CEILING MOUNT, NUMBER INDICATES TYPE, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
	LIGHTING CONNECTION, REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE DESCRIPTION

# ▼ WAP	DATA CABLING, RUN BACK TO +18" AFF, UNLESS OTHERWIS
VAP	WIRELESS ACCESS POINT - T
	FLOOR MOUNTED OUTLET IN PROVIDED BY OTHERS
CAM	CEILING MOUNTED OUTLET (I
$\bigtriangledown$	DATA CABLING, RUN BACK TO LOCATIONS WITH AV CONTRA
S	EMERGENCY ANNOUNCEMEN

ACCESS CONTROL SYMBOLS						
CR	PROXIMITY CARD READER, +4 ABOVE ACCESSIBLE CEILING OWNER.					
D1	DOOR POSITION SWITCH - FL (DPDT)					
E1	ELECTRIC STRIKE - FLUSH MC					
EL	ELECTRIFIED EXIT DEVICE (PA					
	AUTOMATIC DOOR OPERATO					
	*DEVICES TO BE RECESSED IN					

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TO IDF. INSTALL LOOPS PER DRAWINGS. INSTALL AT ISE NOTED.

- TWO (2) CATEGORY 6A CABLES N A MULTI-GANG FLOORBOX WITH SINGLE GANG OPENING,

T (FOR CEILING MOUNTED SECURITY CAMERA)

TO AV RACK. INSTALL LOOPS PER DRAWINGS. COORDINATE TRACTOR AND OWNER.

IENT SPEAKER. MATCH EXISTING SYSTEM TYPE AND INSTALL.

, +44" OR AS NOTED, 1" CONDUIT WITH PULL STRING TO G. COORINDATE LOCATION AND INSTALL WITH

FLUSH MOUNTED, DOUBLE POLE DOUBLE THROW

MOUNTED

(PANIC HARDWARE)

TOR - WALL MOUNTED +46", OR AS NOTED

IN WALL AT ALL LOCATIONS WHERE POSSIBLE\*

GENERAL	SYMBOLS
€3	CONDUIT SLEEVE
0	CONDUIT UP, REFER TO TAG ON DRAWING FOR SIZE
•	CONDUIT DOWN, REFER TO TAG ON DRAWING FOR SIZE
J	JUNCTION BOX, CEILING OR FLOOR MOUNTED.
Q	JUNCTION BOX, WALL MOUNTED, ELEVATION AS NOTED.
(#)	KEYNOTE
$\langle \mathbf{x}\mathbf{x}\mathbf{x} \rangle$	EQUIPMENT IDENTIFICATION TAG. REFER TO EQUIPMENT CONNECTION SCHEDULE
1 A101 SIM	DETAIL DRAWING REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE
1 A101	SECTION CUT REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE
A101	INTERIOR ELEVATION DRAWING REFERENCE TAG

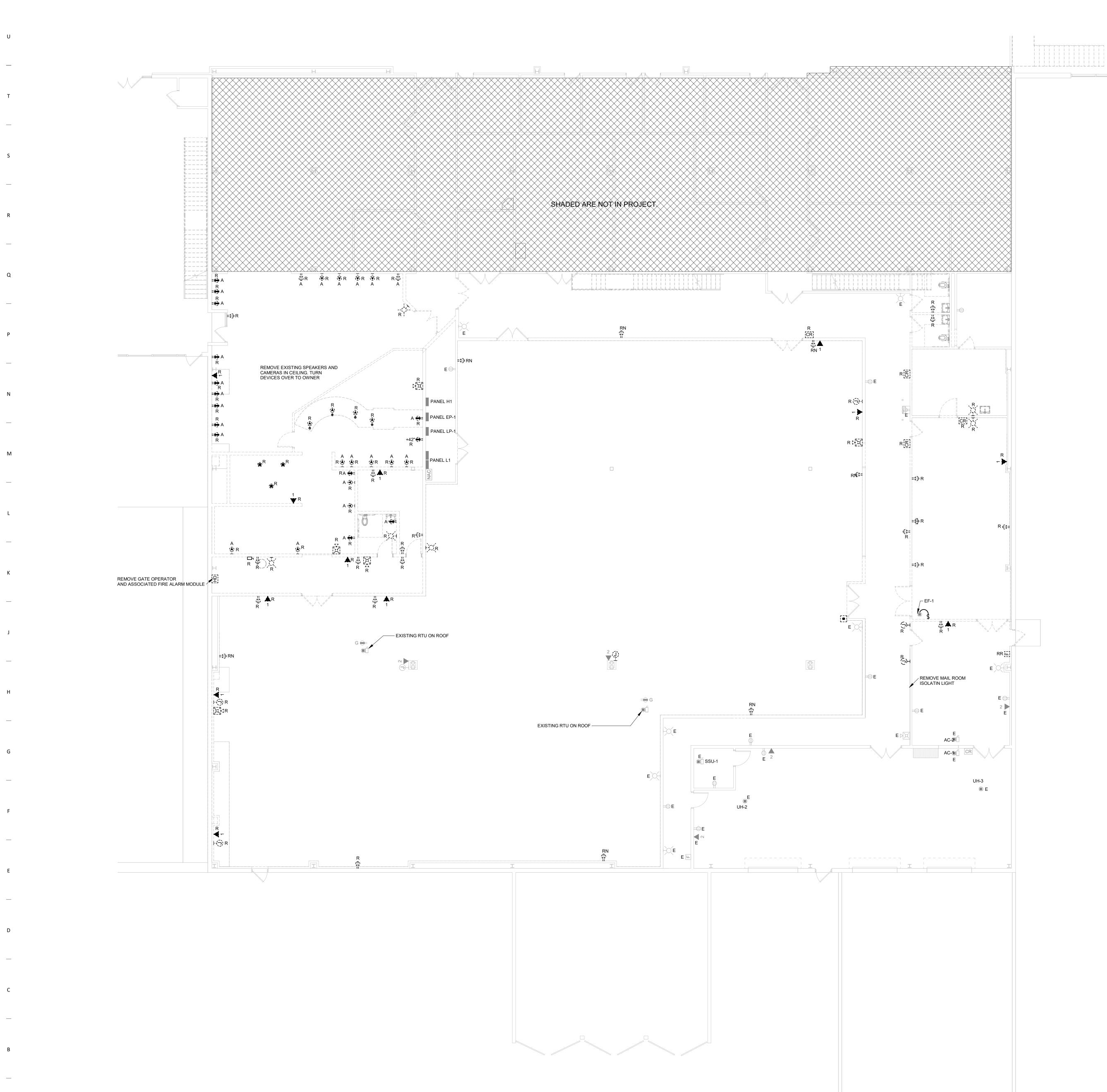
POWER S	YMBOLS
Φ	DUPLEX RECEPTACLE, CEILING MOUNT
φ	DUPLEX RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED
₽ <sup>G</sup>	DUPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED "G" INDICATES PROTECTION INCLUDED IN DEVICE. SHADING INDICATES DEVICE PROTECTED BY EITHER UPSTREAM GFCI DEVICE OR CIRCUIT BREAKER
<b>₽</b> <sup>EWC</sup>	DUPLEX RECEPTACLE, MOUNTED WITHIN WATER COOLER HOUSING, VERIFY HEIGHT. CONNECT TO GFCI, CIRCUIT BREAKER OR REMOTE WALL DEVICE. SHADING INDICATES GFCI PROTECTED DEVICE
$\mathbf{P}^{w}$	DUPLEX GFCI WEATHER RESISTANT RECEPTACLE WITH WEATHER-PROOF IN-USE COVER, TAMPER-RESISTANT, WALL MOUNT +24", OR AS NOTED
<b>\</b>	QUADRAPLEX RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED
₽ <sup>G</sup>	QUADRAPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED "G" INDICATES PROTECTION INCLUDED IN DEVICE. SHADING INDICATES DEVICE PROTECTED BY EITHER UPSTREAM GFCI DEVICE OR CIRCUIT BREAKER
FB#	DUPLEX RECEPTACLE IN FLOORBOX, TAMPER-RESISTANT. REFER TO SCHEDULE.
FB#	QUADRUPLEX RECEPTACLE IN FLOORBOX, TAMPER-RESISTANT. REFER TO SCHEDULE.
FB# 1	FLOOR BOX, COMBINATION POWER AND DATA ENCLOSURE. QUANTITY OF CABLES AS NOTED. DEVICES AS NOTED. REFER TO SCHEDULE.
WHIP	SPECIAL RECEPTACLE, WALL MOUNT +18", OR AS NOTED. FURNITURE WHIP CONNECTION FOR OFFICE FURNITURE. VERIFY EXACT CONNECTION WITH OWNER.
۲	EQUIPMENT CONNECTION, REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE. REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED
P	EQUIPMENT CONNECTION, WALL MOUNT +18", OR AS NOTED, REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE. REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED
Ŷ	JUNCTION BOX, WITH PULL STRING, WALL MOUNT, REFER TO PLAN OR DETAIL FOR MOUNTING HEIGHT
$\diamond$	HAND DRYER, WALL MOUNT, REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT.
ন চ	GROUND BAR
WHIP PP	POWER POLE RACEWAY, WHIP INSTALLATION FOR OFFICE FURNITURE. VERIFY EXACT CONNECTION WITH OWNER.
4	SAFETY DISCONNECT SWITCH
-	PANELBOARD - SURFACE MOUNTED
-	PANELBOARD - RECESSED IN WALL
	DISTRIBUTION PANELBOARD/SWITCHBOARD - SURFACE MOUNTED AS NOTED.
<b>6 D</b>	CORD REEL, CEILING MOUNTED - REFER TO DETAIL

FIRE DETECTION AND ALARM SYMBOLS

F	MANUAL FIRE ALARM PULL STATION
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL + EMERGENCY COMMUNICATIONS PANEL
V H	HORN
X	COMBINATION HORN WITH STROBE
×	COMBINATION SPEAKER WITH STROBE
x/x	STROBE

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ELECTRICAL DEMO POWER & SYSTEMS 1 PLAN 1/8" = 1'-0"

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## ELECTRICAL DEMOLITION NOTES

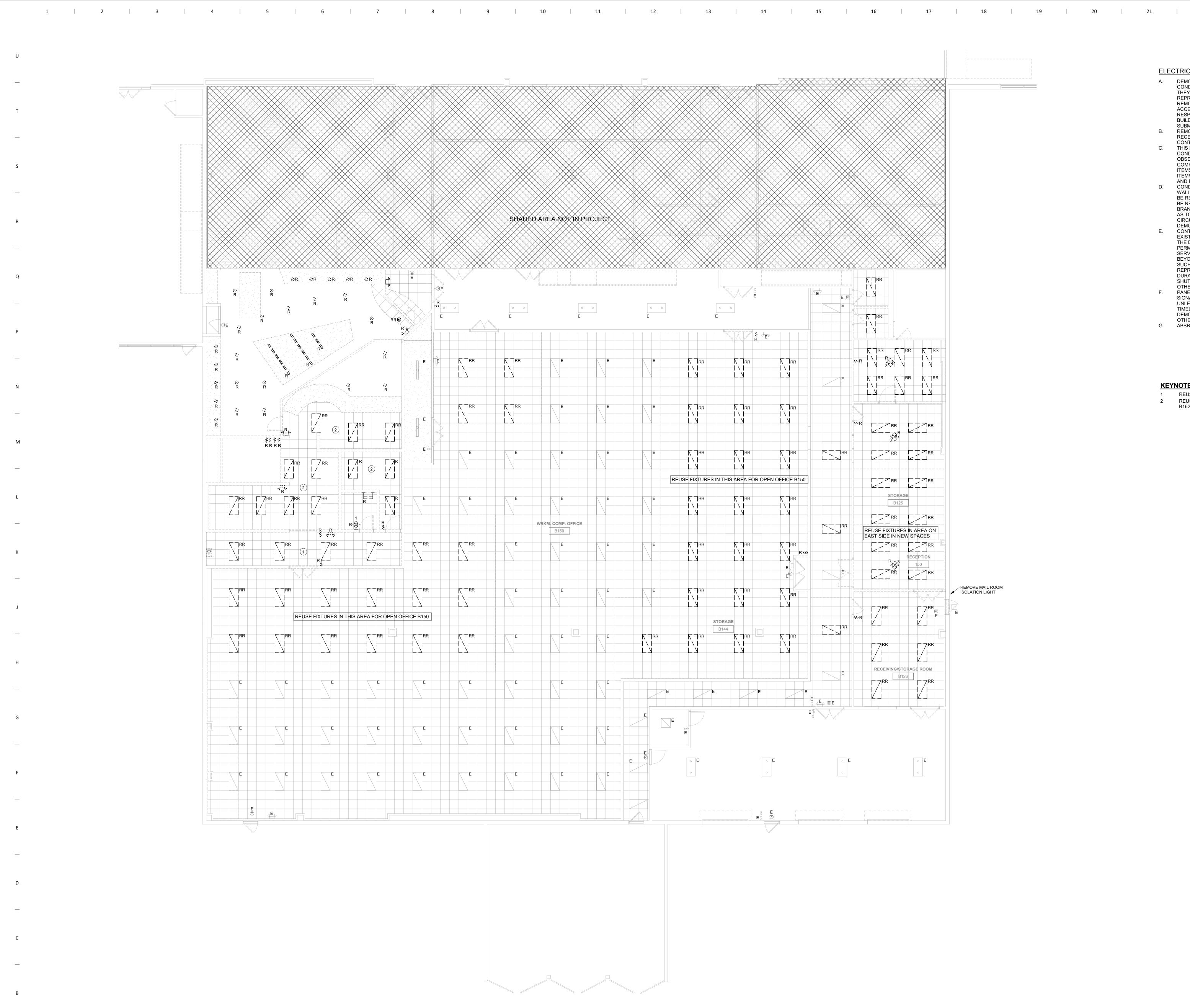
A. DEMOLITION DRAWINGS PRESENT LAYOUT OF EXISTING CONDITIONS AND MAJOR MECHANICAL/ELECTRICAL ITEMS. THEY ARE NOT TO BE CONSTRUED AS COMPLETE IN REPRESENTATION OF ACCESSORIES AND INCIDENTALS TO BE REMOVED, REPLACED, OR REWORKED. NOR SHOULD ACCESSIBILITY BE INFERRED. THE CONTRACTOR IS RESPONSIBLE TO FAMILIARIZE THEMSELVES WITH THE BUILDING AND EXISTING CONDITIONS, PRIOR TO THE

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- SUBMITTING OF A BID FOR THIS PROJECT. B. REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO RECEIVE THE NEW WORK TO BE PROVIDED UNDER THIS
- CONTRACT. C. THIS ELECTRICAL DEMOLITION DRAWING SHOWING EXISTING CONDITIONS HAS BEEN PREPARED BASED ON FIELD OBSERVATION AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS MAY EXIST WHICH DO NOT SHOW, AND SUCH ITEMS SHALL BE DEALT WITH IN A MANNER SIMILAR TO THOSE ITEMS WHICH DO SHOW. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS.
- D. CONDUITS, BOXES, ETC., SHALL BE REMOVED AS REQUIRED BY WALL AND CEILING DEMOLITION AND REMOVALS. WIRING SHALL BE REMOVED. ALL WIRING FOR THE REMODELED AREAS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE. ALL BRANCH CIRCUITS TO BE DISCONNECTED SHALL BE IDENTIFIED AS TO LOCATION OR ITEM SERVED BEFORE DISCONNECTING. CIRCUITS SERVING AREAS BEYOND THE IMMEDIATE DEMOLITION AREA SHALL BE MAINTAINED.
- E. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING ELECTRICAL SYSTEM WHICH WILL BE AFFECTED BY THE DEMOLITION WORK. CONTRACTOR SHALL OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND THE LIMITS OF THE IMMEDIATE DEMOLITION AREA. SUCH PERMISSION WILL BE GRANTED ONLY AFTER OWNER'S REPRESENTATIVE IS INFORMED OF THE REASON FOR AND DURATION OF THE SHUTDOWN AND IS SATISFIED THAT THE SHUTDOWN CAN BE MADE WITH AS LITTLE INCONVENIENCE TO OTHER AREAS AS POSSIBLE.
- F. PANELBOARDS, DISCONNECTS, FIXTURES, WIRING DEVICES, SIGNAL DEVICES, ETC., SHOWN ON PLANS SHALL BE REMOVED UNLESS NOTED OTHERWISE. REMOVAL SHALL BE DONE IN A TIMELY MANNER IN ACCORDANCE WITH THE GENERAL DEMOLITION WORK. COORDINATE WITH THE OWNER AND OTHER CONTRACTORS. ABBREVIATIONS:
  - E EXISTING ITEM TO REMAIN ER - NEW LOCATION OF EXISTING ITEM N - NEW ITEM IN EXISTING LOCATION R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR COVER
  - RN REPLACE EXISTING WITH NEW RR - EXISTING ITEM TO BE REMOVED AND RELOCATED

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OPN Project No.
24816000 Sheet Issue Date
100% CONSTRUCTION 8/16/24 DRAWING SET Sheet Name
ELECTRICAL POWER & SYSTEMS DEMO Sheet Number
ED101





## 1 ELECTRICAL DEMO LIGHTING PLAN 1/8" = 1'-0"

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**ELECTRICAL DEMOLITION NOTES** 

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DEMOLITION DRAWINGS PRESENT LAYOUT OF EXISTING CONDITIONS AND MAJOR MECHANICAL/ELECTRICAL ITEMS. THEY ARE NOT TO BE CONSTRUED AS COMPLETE IN REPRESENTATION OF ACCESSORIES AND INCIDENTALS TO BE REMOVED, REPLACED, OR REWORKED. NOR SHOULD ACCESSIBILITY BE INFERRED. THE CONTRACTOR IS RESPONSIBLE TO FAMILIARIZE THEMSELVES WITH THE

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- BUILDING AND EXISTING CONDITIONS, PRIOR TO THE SUBMITTING OF A BID FOR THIS PROJECT. REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO В. RECEIVE THE NEW WORK TO BE PROVIDED UNDER THIS
- CONTRACT. THIS ELECTRICAL DEMOLITION DRAWING SHOWING EXISTING CONDITIONS HAS BEEN PREPARED BASED ON FIELD OBSERVATION AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS MAY EXIST WHICH DO NOT SHOW, AND SUCH ITEMS SHALL BE DEALT WITH IN A MANNER SIMILAR TO THOSE ITEMS WHICH DO SHOW. CONTRACTOR SHALL VISIT THE SITE
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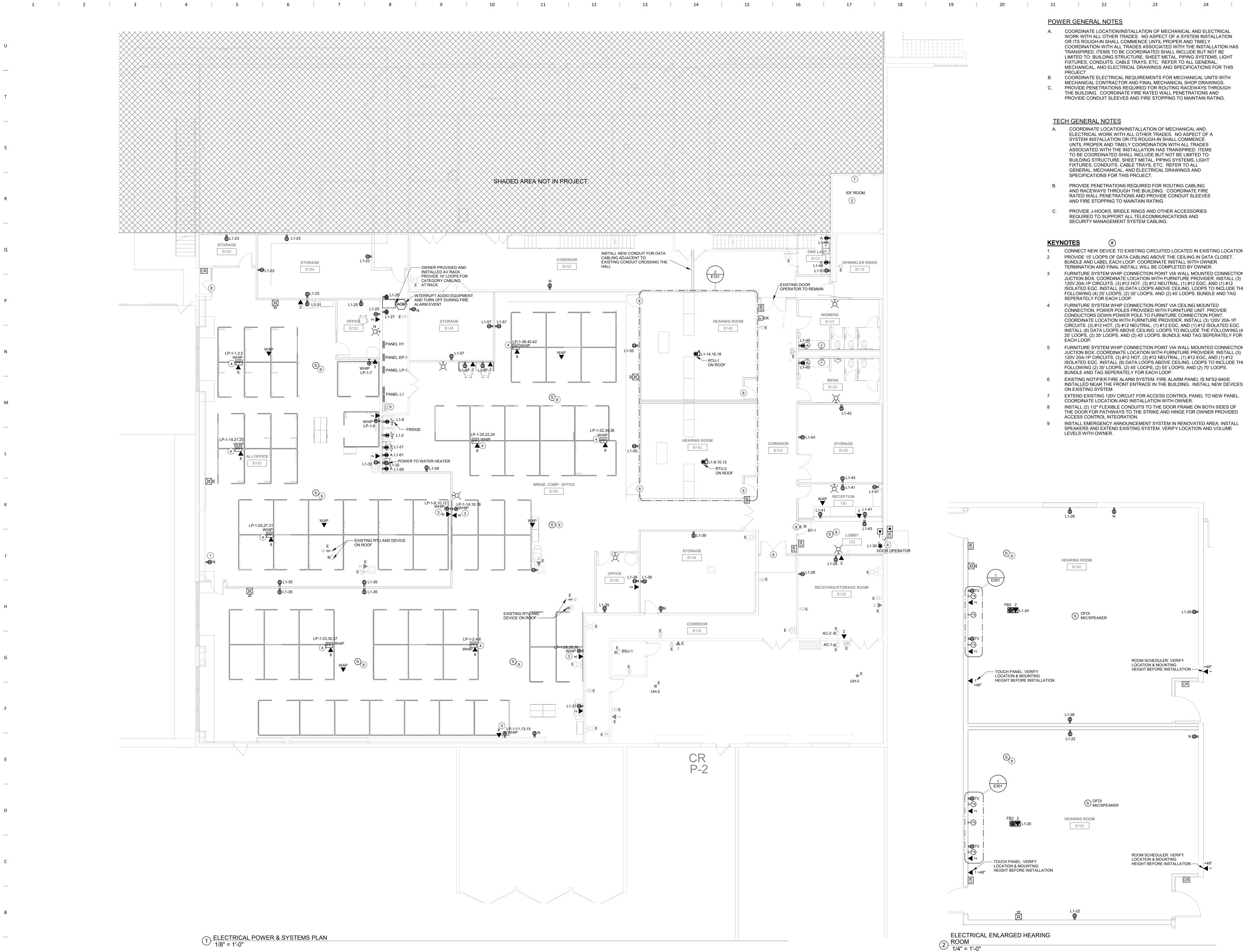
## KEYNOTES (#)

G.

REUSE FIXTURES IN THIS AREA FOR OPEN STORAGE B148. REUSE FIXTURES IN THIS AREA FOR OPEN STORAGE B164 & B162.

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DEMO Sheet Number ED102	

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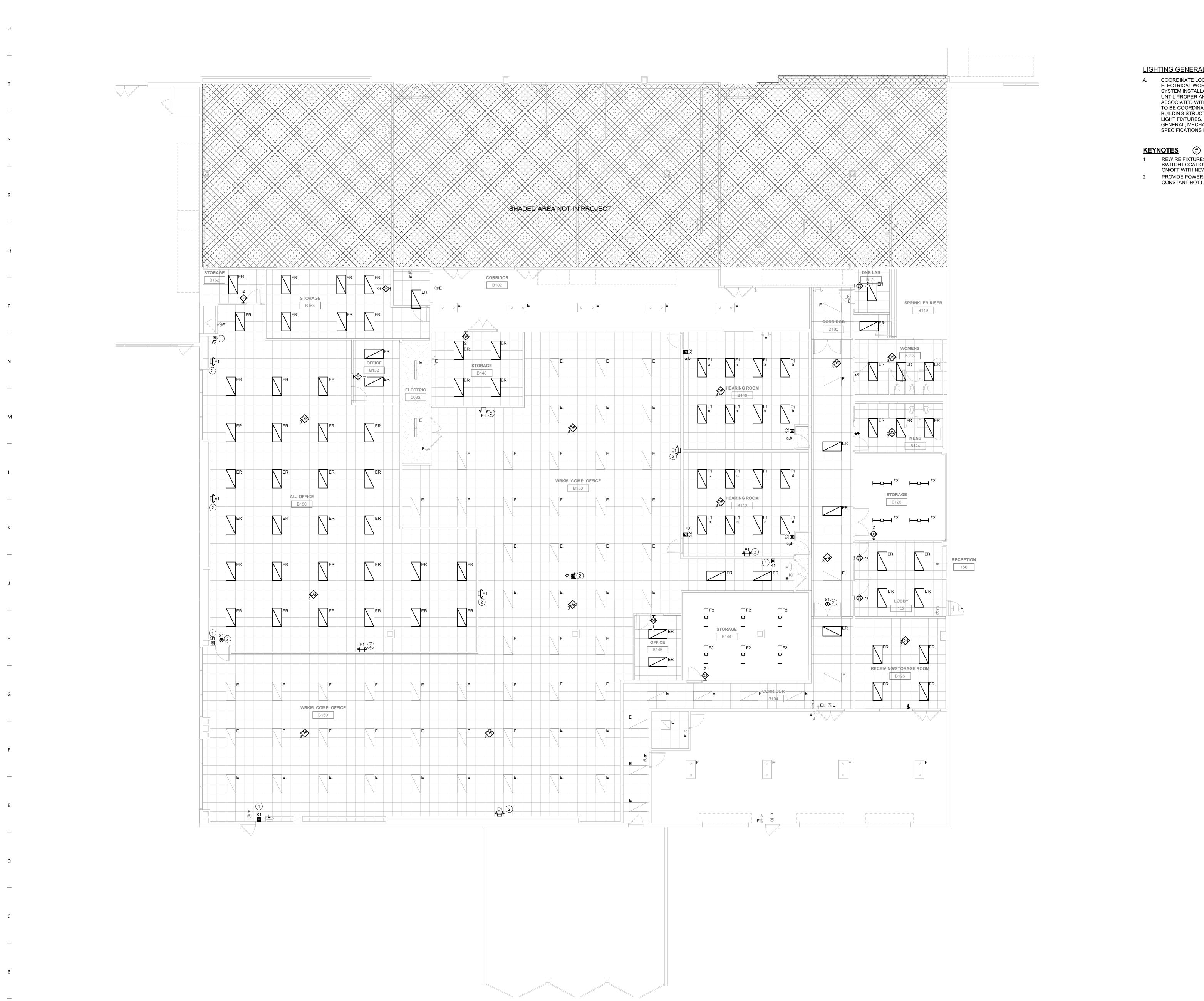
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:. (4) R DN	Mechanical Engineer KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 50265 P. 515-724-7938
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E101





# 1 ELECTRICAL LIGHTING PLAN 1/8" = 1'-0"

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LIGHTING GENERAL NOTES

COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

- REWIRE FIXTURES IN SPACES AS NECESSARY FOR THE NEW SWITCH LOCATIONS SO THE ENTIRE SPACE SWITCHES ON/OFF WITH NEW SWITCHES.
- PROVIDE POWER TO EMERGENCY FIXTRUES FROM CONSTANT HOT LIGHTING CIRCUIT IN SPACE.

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Key Plan	
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OPN Project No. <b>24816000</b>	
Sheet Issue Date 100% CONSTRUCTION DRAWING SET	8/16/24
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FLOORBOX SCHEDUL
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	FLOORBOX SCHEDULE								
SCHEDU	ULE NOTES:								
1. ALL F	ALL FLOORBOXES SHALL BE UL OR SIMILARLY LISTED, AND SHALL MEET OR EXCEED UL SCRUB WATER EXCLUSION REQUIREMENTS.								
	. REFER TO ARCHITECTURAL DOCUMENTS INCLUDING FLOOR FINISH PLANS, FURNITURE PLANS, AND STRUCTURAL PLANS FOR EXACT INSTALLATION LOCATION, DETAILS AND COORDINATION REQUIREMENTS. IF ARCHITECTURAL DRAWINGS DO NOT CLARIFY EXACT INSTALL LOCATION, AND ISSUE AND RFI FOR ARCHITECT TO SPECIFICALLY CLARIFY PRIOR TO BOX ROUGH-IN.								
	3. UNLESS OTHERWISE NOTED. ALL FLOOR BOXES SHALL BE INSTALLED PER MANUFACTURER INSTALLATION GUIDELINES WITH COVERPLATE FLUSH WITH FINISHED FLOOR. COORDINATE COVER SELECTION TYPE AND NSTALLATION ROUGH-IN REQUIREMENTS WITH ARCHITECTURAL FINISH AND GRADING PLANS.								
4. REFE	R TO SYSTEMS DRAWING	S AND DET	AILS FOR ADDITIONAL REQUIREMENTS REGARDING A/V CABLES, DEVICES, AND INSTALL	ATION.					
					DEVICE	<u>E QUANT</u>	ITIES		
<u>TYPE</u>	YPE MANUFACTURER MODEL	MODEL DESCRIPTION	DESCRIPTION	FLOOR TYPE / BOX STYLE	DUPLEX RECEPTACLES	<u>DATA</u> JACKS	<u>A/V</u>	APPROVED EQUALS	
FB2	LEGRAND WIREMOLD	EFB6###	6 GANG RECESSED SQUARE FLOOR BOX. DIE CAST ALUMINUM POWDER COAT FINISH COVER PLATE. ARCHITECT TO SELECT BOX FINISH FROM MANUFACTURER STANDARD DURING SUBMITTAL PROCESS. CONFIGURABLE INTERNAL DEVICE MODULES. AUTO CLOSE CABLE MANAGEMENT EGRESS DOORS. INSTALL (1) 3/4" CONDUIT FOR POWER AND (1) 1" FOR DATA CABLING AND (1) 1 1/2" FOR AV. ACCEPTS STANDARD SINGLE GANG DEVICES. INCLUDE WITH ALL REQUIRED ACCESSORIES, FACEPLATES, AND APPURTENANCES FOR COMPLETE INSTALLATION OF DEVICES AS SCHEDULED.	WOOD, CONCRETE / RECESSED	2	2	OFOI	HUBBELL, OR AS PRE-APPROVED BY ENGINEER	

# EQUIPMENT CONNECTION SCHEDULE

MMS MANUAL MOTOR STARTER WITH FUSES

RSR RUN STATUS RELAY, NORMALLY OPEN

SSP START/STOP PUSHBUTTON WITH PILOT

TS TOGGLE SWITCH WITH PLUG FUSE

VFD VARIABLE FREQUENCY DRIVE

RD RETURN AIR DUCT DETECTOR

SD SUPPLY AIR DUCT DETECTOR

SS START/STOP PUSHBUTTON

TOR TIME DELAY OFF RELAY

ST SHUNT TRIP

NFD NON-FUSED DISCONNECT SWITCH, HEAVY ..

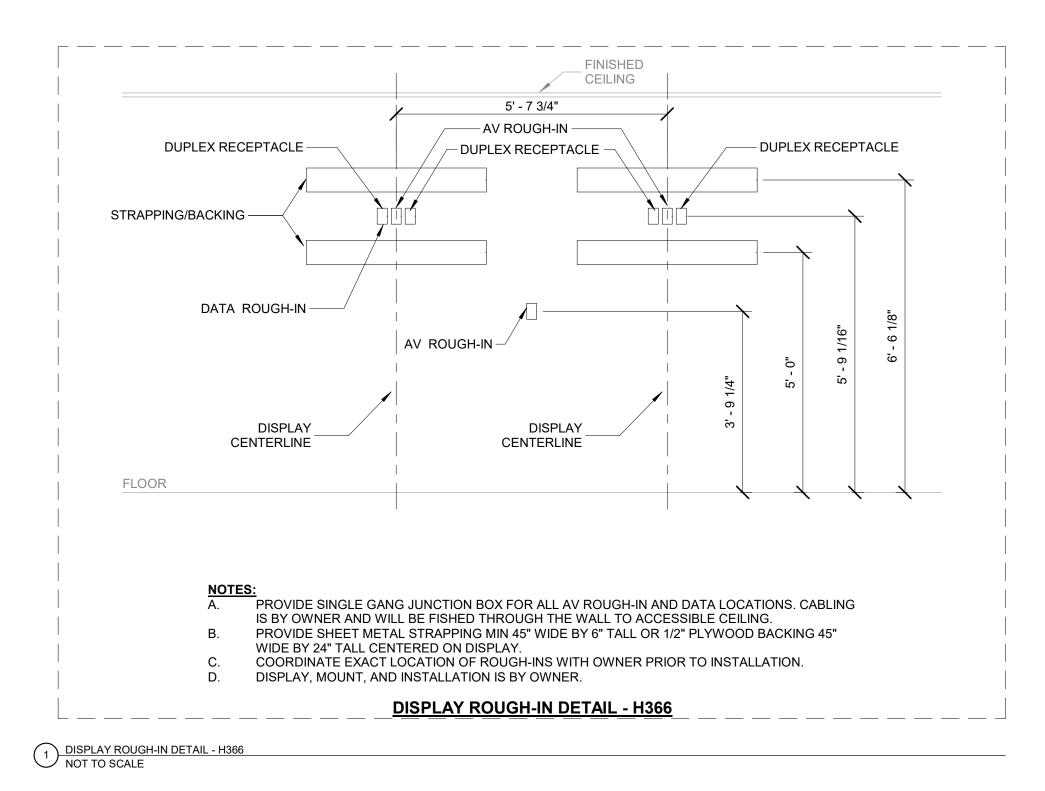
1. INCLUDE AUXILLIARY CONTACTS AND LOW-VOLTAGE WIRING TO AUXILLIARY EQUIPMENT THAT RUNS IN TANDEM WITH EQUIPMENT, (I.E. 120V DAMPERS WITH 480V MOTORS). ABBREVIATIONS: INT INTEGRAL WITH EQUIPMENT FROM FACTORY

NEMA 1 ENCLOSURE 3R NEMA 3R ENCLOSURE

**GENERAL NOTES:** 

- NEMA 4 ENCLOSURE
- 4X NEMA 4X ENCLOSURE
- BO PROVIDED BY OTHERS CB CIRCUIT BREAKER IN PANEL
- CSD COMBINATION STARTER/DISCONNECT
- CP CORD AND PLUG PROVIDED WITH UNIT ECB ENCLOSED CIRCUIT BREAKER
- FAR FIRE ALARM SHUTDOWN RELAY
- FDS FUSED DISCONNECT SWITCH, HEAVY DUTY
- GF GROUND FAULT CIRCUIT INTERRUPTION
- HOA HAND-OFF-AUTO

TAG	<u>ELECTI</u> CHARACTI		<u>ELE</u> <u>CHARA</u>	CTRIC CTERI				DISCONNE	<u>CT</u>	REMARKS
	VOLTAGE	PHASE	MOTOR HP	<u>ĸw</u>	<u>MCA</u>	<u>TYPE</u>	<u>SIZE</u> (AMPS)	<u>NEMA</u> RATING	<u>FUSE SIZE (AMPS)</u>	<u>REMARNS</u>
RTU-1	208 V	3			24	INT				RTU PROVIDED WITH INTEGRAL DISCONNECT AND MAINTENANCE RECEPTACLE.
RTU-2	208 V	3			24	INT				RTU PROVIDED WITH INTEGRAL DISCONNECT AND MAINTENANCE RECEPTACLE.



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1 ALL			OR SIMILARLY LISTED.	
			OR SIMILARLY LISTED. TH MANUFACTURER LIMITED 5 YEAR WARRANTY	
3. PR MA	ovii Nuf	DE LIGHTING CONTRO ACTURER OR MANUF	A MANOFACTORER LIMITED 3 TEAR WARRANT DLS WITH MANUFACTURER COMPLIANT POWER F ACTURERS REP TO PROVIDE DEVICE QUANTITE HOWN. COORDINATE DIMMING TYPE WITH LIGHT	⊳µ S
5. INS	STAL	L LOW VOLTAGE POW	G CONTROLS ARE PROVIDED. POWERPACKS SHA VER PACKS AND ROOM CONTROLLERS ABOVE N COMMON SPACES OR IN INACCESSIBLE LOCATIO	E
7. WH	IER	E APPROVED EQUAL N	RIZED REPRESENTATIVE TO DEMONSTRATE TYP MANUFACTURER PRODUCTS SENSOR COVERAG PROVIDE A COMPLETE AND OPERABLE SYSTE	Е
9. UN	LES	S INDICATED OTHERV	LIGHTING CONTROLS COMPONENTS SHALL BE VISE, LIGHTING CONTROL SCHEMES/OPERATION SENSORS PROGRAMMED FOR OCCUPANCY M	13
		<u>DORS, VESTIBULES,</u> DN SPACES:	ZONES SHALL BE BY ALWAYS ON DAYLIGHT SE	
ALI	<u>_ OT</u>	HER SPACES	SENSORS PROGRAMMED FOR VACANCY MODE DAYLIGHT ZONES SHALL BE BY ALWAYS ON DA	
<u>TYP</u>	<u>'E</u>		DESCRIPTION	
c	51	SINGLE ZONE CONTR	ROL LIGHT SWITCH. NON-DIMMING LIGHTING	+
		ROOM CONTROLLER SWITCHING CONTRO	CONTROLS NETWORK COMPATIBLE DEVICE. COMPATIBLE, ENABLING MULTI-ZONE IL AND MULTI-SOURCE DIMMING. PROVIDED R DECORATIVE WALLPLATE. DEVICE FINISH EVICES SPEC.	
	52	ROOM CONTROLLER SWITCHING CONTRO WITH MANUFACTURE MATCHING WIRING D TWO ZONE CONTROL LIGHTING CONTROLS CONTROLLER COMPA CONTROL AND MULT	COMPATIBLE, ENABLING MULTI-ZONE IL AND MULTI-SOURCE DIMMING. PROVIDED ER DECORATIVE WALLPLATE. DEVICE FINISH	
0S 1		ROOM CONTROLLER SWITCHING CONTRO WITH MANUFACTURE MATCHING WIRING D TWO ZONE CONTROL LIGHTING CONTROLS CONTROLLER COMPA CONTROL AND MULT MANUFACTURER DEC WALL SWITCH OCCU WIRING DEVICES SPE AUTOMATIC SELF-AD	COMPATIBLE, ENABLING MULTI-ZONE L AND MULTI-SOURCE DIMMING. PROVIDED R DECORATIVE WALLPLATE. DEVICE FINISH EVICES SPEC. LIGHT SWITCH. DIMMING LIGHTING CONTROL. NETWORK COMPATIBLE DEVICE. ROOM ATIBLE, ENABLING MULTI-ZONE SWITCHING I-SOURCE DIMMING. PROVIDED WITH	
		ROOM CONTROLLER SWITCHING CONTRO WITH MANUFACTURE MATCHING WIRING D TWO ZONE CONTROL LIGHTING CONTROLS CONTROLLER COMPA CONTROL AND MULT MANUFACTURER DEC WALL SWITCH OCCUI WIRING DEVICES SPE AUTOMATIC SELF-AD ON/FALSE OFF CORR WALL SWITCH OCCUI WIRING DEVICES SPE AUTOMATIC SELF-AD	COMPATIBLE, ENABLING MULTI-ZONE L AND MULTI-SOURCE DIMMING. PROVIDED R DECORATIVE WALLPLATE. DEVICE FINISH EVICES SPEC. LIGHT SWITCH. DIMMING LIGHTING CONTROL. NETWORK COMPATIBLE DEVICE. ROOM ATIBLE, ENABLING MULTI-ZONE SWITCHING I-SOURCE DIMMING. PROVIDED WITH CORATIVE WALLPLATE. DEVICE FINIS PANCY SENSOR. DEVICE FINISH MATCHING EC. RATED FOR MIN 1/6 HP MOTOR. INTEGRAL DAPTIVE COVERAGE THRESHOLD AND FALSE	

### NOTES:

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- 1. ALL FIXTURES SHALL BE U.L. OR SIMILARLY LISTED.

- NOTIFY THE ARCHITECT OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION. 5. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE LUMINAIRES.
- INCLUDE LABOR AND MATERIAL COSTS MADE NECESSARY BY THIS REQUIREMENT.
- 7. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

								DES	SIGNED BY: B	С
TYPE	MANUFACTURER	MODEL	DESCRIPTION	<b>FINISH</b>	LUMENS	CRI	SOURCE-CCT	VOLTAGE	LOAD-VA	APPROVED EQUALS
E1	DUAL-LITE	LZ-2-I-03L	EMERGENCY LIGHT, WALL OR CEILING MOUNTED, THERMOPLASTIC HOUSING, 2 LED ADJUSTABLE LAMP HEADS, LEAD-CALCIUM MAINTENANCE FREE BATTERY, SELF-DIAGNOSTICS	WHITE	-	-	LED	277 V	2 VA	SURE-LITES, LIGHTALARMS, LITHONIA, EMERGENSEE
F1	FINELITE	HPR-SL-ANR-2X4-H-94 0-DCO-96LG-277V-SC- FC-10%-C1-96LG	RECESSED TROFFER 2X4, ANGLED NARROW RAIL, BACK-LIT, 5000 LUMEN OUTPUT, L70 OF 100,000+ HRS	WHITE	5000	90	4000K LED	120 V	40 VA	AS APPROVED BY ENGINEER
F2	LITHONIA	CLX-L48-4000LM-SEF- RDL-40K-90CRI	4' LINEAR UTILITY STRIP FIXTURE, 4000LM, 40K, 90CRI, WHITE FINISH, CABLE MOUNTED TO BE ADJACENT TO BOTTOM OF JOIST.	WHITE	3000	80	4000K LED	120 V	42 VA	COOPER, CURRENT, CREE, HE WILLIAMS
X1	DUAL-LITE	SE-S-R-W-E-I	EXIT SIGN, UNIVERSAL MOUNTING. SINGLE FACE, BATTERY BACKUP, SELF-DIAGNOSTIC	WHITE	-	-	RED LED	120 V	5 VA	SURE-LITES, LIGHTALARMS, LITHONIA, EMERGENSEE
X2	DUAL-LITE	SE-D-R-W-E-I	EXIT SIGN, UNIVERSAL MOUNTING. DUAL FACE, BATTERY BACKUP, SELF-DIAGNOSTIC	WHITE	-	-	RED LED	120 V	5 VA	SURE-LITES, LIGHTALARMS, LITHONIA, EMERGENSEE

#### LIGHTING CONTROLS SCHEDULE

POWER PACKS AND LOW VOLTAGE ROOM CONTROLLERS IN QUANTITY REQUIRED TO INSTALL A COMPLETE AND OPERATIONAL SYSTEM. JANTITES, LAYOUTS AND TYPICAL WIRING DETAILS DURING SHOP SUBMITTAL PROCESS. PROVIDE DIMMING COMPATIBLE DEVICES WHERE H LIGHTING FIXTURES SHOWN. REFER TO LUMINAIRE SCHEDULE FOR FIXTURE DIMMING TYPE. CKS SHALL BE PROVIDED AND INSTALLED WITHIN MANUFACTURER RECOMENDED DISTANCES TO ENSURE CONTROLLER OPERATION.

BOVE NEARBY ACCESSIBLE CEILING TILES OR IN MECHANICAL/STORAGE SPACES ADJACENT TO CONTROLLED FIXTURES. DO NOT INSTALL LOCATIONS.

ATE TYPICAL INSTALLATION AND COMMISSIONING OF EQUIPMENT. OVERAGE OR LOAD RATINGS DIFFER FROM BASIS OF DESIGN, CONTRACTOR AND MANUFACTURER ARE RESPONSIBLE FOR PROVIDING ADDITIONAL SYSTEM. HALL BE TESTED AND LISTED AS COMPATIBLE BY MANUFACTURER WITH NORMAL LIGHTING CONTROLS IN ALL AREAS.

ERATION SHALL BE AS FOLLOWS: ANCY MODE, AUTOMATIC ON/OFF OPERATION, 20 MINUTES MINNIMUM, 30 MINUTES MAXIMUM. DIMMING CONTROL OF FIXTURES WITHIN DAYLIGHT

LIGHT SENSOR. Y MODE, MANUAL ON/AUTOMATIC OFF OPERATION 20 MINUTES MINNIMUM, 30 MINUTES MAXIMUM.DIMMING CONTROL OF FIXTURES WITHIN

					DESIGNED BY: BC
	<b>ELECTRICAL</b>	MOUNTING	<u>SENSOR</u> <u>TYPE</u>	<u>COVERAGE</u>	APPROVED MANUFACTURERS
TING EVICE. DED INISH	LOW VOLTAGE	WALL SWITCH / SINGLE GANG	N/A	N/A	HUBBELL, CRESTRON, ACUITY, WATTSTOPPER, AS APPROVED BY ENGINEER.
ontrol. M Hing	120/277V / 0-10V DIMMING	WALL SWITCH / SINGLE GANG	N/A	N/A	LUTRON, ACUITY, CRESTRON, WATTSTOPPER, AS APPROVED BY ENGINEER.
IING EGRAL ALSE	120V / 0-10V DIMMING	WALL SWITCH / SINGLE GANG	DUAL-TECH	1000 SQ FT / 180 DEG	HUBBELL, CRESTRON, ACUITY, GREENGATE, AS APPROVED BY ENGINEER.
IING EGRAL ALSE	120V	WALL SWITCH / SINGLE GANG	DUAL-TECH	1000 SQ FT / 180 DEG	HUBBELL, CRESTRON, ACUITY, WATTSTOPPER, GREENGATE, AS APPROVED BY ENGINEER.
FINISH. ALSE . INDOOR	LOW VOLTAGE	CEILING / 8'-12' MH	DUAL-TECH	2000 SQ FT / 360 DEG	HUBBELL, CRESTRON, ACUITY, WATTSTOPPER, GREENGATE, AS APPROVED BY ENGINEER.

#### LIGHTING FIXTURE SCHEDULE

2. INCLUDE A MINIMUM 5 YEAR WARRANTY FOR LIGHTING FIXTURES, WHERE NOT OTHERWISE SPECIFIED.

3. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING LOCATIONS, DETAILS, AND CONFIGURATIONS OF ALL LUMINAIRES. IF ARCHITECTURAL DRAWINGS DO NOT CLARIFY EXACT MOUNTING LOCATION OR DETAIL, ISSUE AN RFI FOR ARCHITECT TO SPECIFICALLY CLARIFY PRIOR TO FIXTURE ROUGH-IN.

4. VERIFY COMPATIBILITY OF LIGHT FIXTURES WITH CEILING MATERIAL, ADJACENT CONSTRUCTION, AND ADJACENT FINISHES PRIOR TO SHOP DRAWINGS SUBMITTAL

6. AIM AND TARGET ADJUSTABLE INTERIOR AND EXTERIOR LIGHT FIXTURES UNDER THE OBSERVATION AND IN COMPLIANCE WITH RECOMMENDATIONS OF THE ARCHITECT.

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<b>A R C</b> 100 Court Av Des Moines, P: 515-309-(	ve., Suite 10 IA 50309	<b>ЕСТЅ</b> °
WWW.Opnarc All reports, plans, s notes and other do OPN Architects, Inc the property of OPI	chitects.com pecifications, com cuments and instri as instruments o N Architects, Inc. ( mon law, statutory e copyright thereto	puter files, field data, uments prepared by f service shall remain DPN Architects, Inc. rand other reserved
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  | <b>JIT DESCRIPTION</b><br>GE (GFCI BREAKER)  |
| CIRCUIT D<br>(E) REC<br>(E) REC<br>(E) REC   
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   | E AMP<br>20 A<br>20 A   | NO<br>1<br>3<br>5  | 0   | PH<br>N<br>1200  
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  | JIT DESCRIPTION  |
| CIRCUIT D<br>(E) REC<br>(E) REC<br>(E) REC<br>(E) REC<br>(E) REC   
  | SUPPLY FROM:<br>MOUNTING: SUF<br>ENCLOSURE: TYP  | <b>P</b><br>1<br>1<br>1<br>1<br>1<br>1  
   
   | E AMP<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A   | NO           1           3           5           7           9   |   | PH   
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  | <b>JIT DESCRIPTION</b><br>GE (GFCI BREAKER)<br>(E) LIGHTING  |
| CIRCUIT D<br>(E) REC<br>(E) REC<br>(E) REC<br>(E) REC<br>(E) REC<br>(E) REC  
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  | JIT DESCRIPTION<br>GE (GFCI BREAKER)<br>(E) LIGHTING<br>GE (GFCI BREAKER)  |
| CIRCUIT D           (E) REC  
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  | JIT DESCRIPTION<br>GE (GFCI BREAKER)<br>(E) LIGHTING<br>GE (GFCI BREAKER)  |
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  | JIT DESCRIPTION<br>GE (GFCI BREAKER)<br>(E) LIGHTING<br>GE (GFCI BREAKER)<br>RTU-2<br>RTU-1<br>RTU-1<br>RECEPTACLE   |
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   | JIT DESCRIPTION<br>GE (GFCI BREAKER)<br>(E) LIGHTING<br>GE (GFCI BREAKER)<br>RTU-2<br>RTU-1<br>RECEPTACLE<br>RECEPTACLE<br>RECEPTACLE<br>RECEPTACLE  |
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  | JIT DESCRIPTION<br>GE (GFCI BREAKER)<br>(E) LIGHTING<br>GE (GFCI BREAKER)<br>RTU-2<br>RTU-1<br>RECEPTACLE<br>RECEPTACLE  |
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CIRCUIT D (E) REC (E)	SUPPLY FROM: MOUNTING: SUF ENCLOSURE: TYP	P     1       1     1	<ul> <li>AMP</li> <li>20 A</li> </ul>	NO           1           3           5           7           9           11           13           15           17           19           21           23           25           27           29	0 0 0 0 0 0 360	PH 1200 1 1200 1 2306 1 2306 1 360 1 3	HASES: 3 WIRES: 4 WIRES: 4 0 0 0 0 0 1600	3 4 4 0 2306 2306 360	0 0 0 0 0 0 900	1200 2306 2306 360	NO         2         4         6         8         10         12         14         16         18         20         22         24         26         28         30	MAIN         MAINS         MAINS         MCB         20 A         20 A         20 A         20 A         30 A         30 A         20 A	S TYPE RATING RATING 1 1 1 3 3 3 1 1 1 1 1	: MLO : 225 A : 225 A FRIDO FRIDO	JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR
CIRCUIT D (E) REC (E)	SUPPLY FROM: MOUNTING: SUF ENCLOSURE: TYP	P       1	AMP           20 A	NO           1           3           5           7           9           11           13           15           17           19           21           23           25           27           29           31           33           35           37	0 0 0 0 0 0 360	PH 1200 1 1200 1 2306 1 2306 1 360 1 3	HASES: 3 WIRES: 4 0 0 0 0 0 0 0 1 0 0 1 0 1 0 1 0 1 0 1	3 4 4 0 2306 2306 360	0 0 0 0 0 900 360	1200 2306 2306 360	NO         2         4         6         8         10         12         14         16         18         20         22         24         26         28         300         322         34         36         38	MAIN         MAINS         MAINS         MCB         20 A         20 A         20 A         20 A         30 A         30 A         20 A	S TYPE RATING RATING 1 1 1 3 3 3 1 1 1 1 1	: MLO : 225 A : 225 A FRIDO FRIDO	JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR
CIRCUIT D (E) REC (E)	SUPPLY FROM: MOUNTING: SUF ENCLOSURE: TYP	P       1 </td <td>AMP           20 A           20 A</td> <td>NO         1         3         5         7         9         11         13         15         17         19         21         23         25         27         29         31         33         35         37         39         41</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>PH 1200 1 1200 1 2306 1 2306 1 360 1 3</td> <td>HASES: 4 WIRES: 4 0 0 0 0 0 0 1600 1600 1600</td> <td>3 4 4 0 2306 2306 360</td> <td>0 0 0 0 0 900 360</td> <td>1200 2306 2306 360</td> <td>NO         2         4         6         8         10         12         14         16         18         20         24         26         28         300         32         34         36         38         40         42</td> <td>MAIN         MAINS         MAINS         MCB         20 A         20 A         20 A         20 A         30 A         30 A         20 A</td> <td>S TYPE RATING RATING 1 1 1 3 3 3 1 1 1 1 1</td> <td>: MLO : 225 A : 225 A FRIDO FRIDO</td> <td>JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR</td>	AMP           20 A	NO         1         3         5         7         9         11         13         15         17         19         21         23         25         27         29         31         33         35         37         39         41	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PH 1200 1 1200 1 2306 1 2306 1 360 1 3	HASES: 4 WIRES: 4 0 0 0 0 0 0 1600 1600 1600	3 4 4 0 2306 2306 360	0 0 0 0 0 900 360	1200 2306 2306 360	NO         2         4         6         8         10         12         14         16         18         20         24         26         28         300         32         34         36         38         40         42	MAIN         MAINS         MAINS         MCB         20 A         20 A         20 A         20 A         30 A         30 A         20 A	S TYPE RATING RATING 1 1 1 3 3 3 1 1 1 1 1	: MLO : 225 A : 225 A FRIDO FRIDO	JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR
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CIRCUIT D           (E) REQ           RECE           REQ           REQ<	SUPPLY FROM: MOUNTING: SUF ENCLOSURE: TYP SECRIPTION CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE EPTACLE	P       P       1 </td <td>AMP           20 A           20 A     &lt;</td> <td>NO       1       3       5       7       9       11       13       15       17       9       11       13       15       27       29       31       23       25       27       29       31       33       35       37       39       41       43       45       47       49       51       53       55       57       59</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>PH 1200 1 1200 1 2306 1 2306 1 360 1 3</td> <td>HASES: 4 WIRES: 4 0 0 0 0 0 0 0 1 0 0 1 0 1 0 1 0 1 0 1</td> <td>3 4 4 0 2306 2306 360</td> <td>C</td> <td>1200 2306 2306 360</td> <td>NO         2         4         6         8         10         12         14         16         18         20         24         16         18         20         24         26         28         300         322         34         36         38         40         42         44         46         48         500         52         54         56         58         60</td> <td>MAIN         MAINS         MAINS         MCB         20 A         20 A         20 A         20 A         30 A         30 A         20 A</td> <td>S TYPE RATING RATING 1 1 1 3 3 3 1 1 1 1 1</td> <td>: MLO : 225 A : 225 A FRIDO FRIDO</td> <td>JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR</td>	AMP           20 A           20 A     <	NO       1       3       5       7       9       11       13       15       17       9       11       13       15       27       29       31       23       25       27       29       31       33       35       37       39       41       43       45       47       49       51       53       55       57       59	0 0 0 0 0 0 0 0 0 0 0 0 0 0	PH 1200 1 1200 1 2306 1 2306 1 360 1 3	HASES: 4 WIRES: 4 0 0 0 0 0 0 0 1 0 0 1 0 1 0 1 0 1 0 1	3 4 4 0 2306 2306 360	C	1200 2306 2306 360	NO         2         4         6         8         10         12         14         16         18         20         24         16         18         20         24         26         28         300         322         34         36         38         40         42         44         46         48         500         52         54         56         58         60	MAIN         MAINS         MAINS         MCB         20 A         20 A         20 A         20 A         30 A         30 A         20 A	S TYPE RATING RATING 1 1 1 3 3 3 1 1 1 1 1	: MLO : 225 A : 225 A FRIDO FRIDO	JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR
CIRCUIT D           (E) REC           (E) RECE           MICROWAVE           RECE	SUPPLY FROM: MOUNTING: SUF ENCLOSURE: TYP DESCRIPTION CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE EPTACLE	P       1 <t< td=""><td>AMP        </td><td>NO       1       3       5       7       9       11       13       15       17       19       21       23       25       27       29       31       33       35       37       39       41       43       45       47       49       51       53       55       57</td><td>0 0 0 0 0 0 0 1 0 1 1 1 1 1 1 1 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>PH 1200 1 1200 1 2306 1 2306 1 360 1 3</td><td>IASES:       I         WIRES:       I         WIRES:       I         0       I         0       I         0       I         0       I         0       I         0       I         0       I         1600       I         360       I         720       I         360       I         360       I         180       I</td><td>3 4 4 0 2306 2306 360</td><td>C</td><td>1200 2306 2306 360</td><td>NO         2         4         6         8         10         12         14         16         18         20         24         6         38         300         32         34         36         38         40         42         44         46         48         50         52         54         56         58</td><td>MAIN         MAINS         MAINS         MCB         20 A         20 A         20 A         20 A         30 A         30 A         20 A</td><td>S TYPE RATING RATING 1 1 1 1 3 3 3 1 1 1 1 1</td><td>: MLO : 225 A : 225 A FRIDO FRIDO</td><td>JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR</td></t<>	AMP	NO       1       3       5       7       9       11       13       15       17       19       21       23       25       27       29       31       33       35       37       39       41       43       45       47       49       51       53       55       57	0 0 0 0 0 0 0 1 0 1 1 1 1 1 1 1 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	PH 1200 1 1200 1 2306 1 2306 1 360 1 3	IASES:       I         WIRES:       I         WIRES:       I         0       I         0       I         0       I         0       I         0       I         0       I         0       I         1600       I         360       I         720       I         360       I         360       I         180       I	3 4 4 0 2306 2306 360	C	1200 2306 2306 360	NO         2         4         6         8         10         12         14         16         18         20         24         6         38         300         32         34         36         38         40         42         44         46         48         50         52         54         56         58	MAIN         MAINS         MAINS         MCB         20 A         20 A         20 A         20 A         30 A         30 A         20 A	S TYPE RATING RATING 1 1 1 1 3 3 3 1 1 1 1 1	: MLO : 225 A : 225 A FRIDO FRIDO	JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR
CIRCUIT D           (E) REC           (E) RECE           MICROWAVE           RECE	SUPPLY FROM: MOUNTING: SUF ENCLOSURE: TYP DESCRIPTION CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE EPTACLE	P       1 <t< td=""><td>AMP        </td><td>NO       1       3       5       7       9       11       13       15       17       19       21       23       25       27       29       31       33       35       37       39       41       43       45       47       49       51       53       55       57       59       61</td><td>0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>PH 1200 1 1200 1 2306 1 2306 1 360 1 3</td><td>IASES:       I         WIRES:       I         WIRES:       I         0       I         0       I         0       I         0       I         0       I         0       I         0       I         1600       I         360       I         720       I         360       I         360       I         360       I         180       I         900       I         900       I</td><td>3 4 4 0 2306 2306 360</td><td>C</td><td>1200 2306 2306 360</td><td>NO         2         4         6         8         10         12         14         16         18         20         22         24         26         30         32         34         36         38         40         42         44         46         48         50         52         54         56         58         60         62</td><td>MAIN         MAINS         MAINS         MCB         20 A         20 A         20 A         20 A         30 A         30 A         20 A</td><td>S TYPE RATING RATING 1 1 1 1 3 3 3 1 1 1 1 1</td><td>: MLO : 225 A : 225 A FRIDO FRIDO</td><td>JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR</td></t<>	AMP	NO       1       3       5       7       9       11       13       15       17       19       21       23       25       27       29       31       33       35       37       39       41       43       45       47       49       51       53       55       57       59       61	0 0 0 0 0 0 0 0 0 0 0 0 0 0	PH 1200 1 1200 1 2306 1 2306 1 360 1 3	IASES:       I         WIRES:       I         WIRES:       I         0       I         0       I         0       I         0       I         0       I         0       I         0       I         1600       I         360       I         720       I         360       I         360       I         360       I         180       I         900       I         900       I	3 4 4 0 2306 2306 360	C	1200 2306 2306 360	NO         2         4         6         8         10         12         14         16         18         20         22         24         26         30         32         34         36         38         40         42         44         46         48         50         52         54         56         58         60         62	MAIN         MAINS         MAINS         MCB         20 A         20 A         20 A         20 A         30 A         30 A         20 A	S TYPE RATING RATING 1 1 1 1 3 3 3 1 1 1 1 1	: MLO : 225 A : 225 A FRIDO FRIDO	JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR
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360       I         180       I         900       I         900       I</td><td>3 4 4 0 2306 2306 360</td><td>C</td><td>1200 2306 2306 360</td><td>NO         2         4         6         8         10         12         14         16         18         20         24         16         18         20         24         36         32         34         36         38         40         42         44         46         50         52         54         56         58         600         62         64         66         70</td><td>MAIN         MAINS         MAINS         MCB         20 A         20 A         20 A         20 A         30 A         30 A         20 A</td><td>S TYPE RATING RATING 1 1 1 1 3 3 3 1 1 1 1 1</td><td>: MLO : 225 A : 225 A FRIDO FRIDO</td><td>JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR</td></tr<></td></t<>	AMP         20 A         20 A <tr< td=""><td>NO       1       3       5       7       9       11       13       15       17       9       11       13       15       77       9       11       13       15       27       29       31       33       35       37       39       41       43       45       47       49       51       53       55       57       61       63       65</td><td>0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>PH 1200 1 1200 1 2306 1 2306 1 360 1 3</td><td>IASES:       I         WIRES:       I         WIRES:       I         0       I         0       I         0       I         0       I         0       I         0       I         0       I         1600       I         360       I         720       I         360       I         360       I         360       I         180       I         900       I         900       I</td><td>3 4 4 0 2306 2306 360</td><td>C</td><td>1200 2306 2306 360</td><td>NO         2         4         6         8         10         12         14         16         18         20         24         16         18         20         24         36         32         34         36         38         40         42         44         46         50         52         54         56         58         600         62         64         66         70</td><td>MAIN         MAINS         MAINS         MCB         20 A         20 A         20 A         20 A         30 A         30 A         20 A</td><td>S TYPE RATING RATING 1 1 1 1 3 3 3 1 1 1 1 1</td><td>: MLO : 225 A : 225 A FRIDO FRIDO</td><td>JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR</td></tr<>	NO       1       3       5       7       9       11       13       15       17       9       11       13       15       77       9       11       13       15       27       29       31       33       35       37       39       41       43       45       47       49       51       53       55       57     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     20 A	S TYPE RATING RATING 1 1 1 1 3 3 3 1 1 1 1 1	: MLO : 225 A : 225 A FRIDO FRIDO	JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR
CIRCUIT D           (E) REQ	SUPPLY FROM: MOUNTING: SUF ENCLOSURE: TYP ENCLOSURE: TYP DESCRIPTION CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE CEPTACLE ETACLE	P       1 <t< td=""><td>EJ20 A20 A</td></t<> <td>NO       1       3       5       7       9       11       13       15       17       19       123       25       27       29       31       33       35       37       39       41       43       45       47       49       51       53       55       57       59       61       63       65       67       69       71       73</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>PH 1200 1 1200 1 2306 1 2306 1 360 1 3</td> <td>IASES:       I         WIRES:       I         0       I         0       I         0       I         0       I         0       I         0       I         0       I         1600       I         360       I         720       I         360       I         180       I         360       I         900       I         900       I         0       I         180       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I</td> <td></td> <td>C</td> <td>1200 2306 2306 360</td> <td>NO         2         4         6         8         10         12         14         16         18         20         24         16         18         20         24         16         18         20         24         26         38         300         32         34         36         38         40         42         44         46         50         52         54         56         58         60         62         64         66         72         74</td> <td>MAINS         MAINS         MAINS         MAINS         MAINS         AMP         20 A         20 A         20 A         20 A         30 A         20 A</td> <td>S TYPE RATING RATING 1 1 1 1 3 3 3 1 1 1 1 1</td> <td>: MLO : 225 A : 225 A FRIDO FRIDO</td> <td>JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR VATER HEATER OOR OPERATOR VATER HEATER</td>	EJ20 A20 A	NO       1       3       5       7       9       11       13       15       17       19       123       25       27       29       31       33       35       37       39       41       43       45       47       49       51       53       55       57       59       61       63       65       67       69       71       73	0 0 0 0 0 0 0 0 0 0 0 0 0 0	PH 1200 1 1200 1 2306 1 2306 1 360 1 3	IASES:       I         WIRES:       I         0       I         0       I         0       I         0       I         0       I         0       I         0       I         1600       I         360       I         720       I         360       I         180       I         360       I         900       I         900       I         0       I         180       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I		C	1200 2306 2306 360	NO         2         4         6         8         10         12         14         16         18         20         24         16         18         20         24         16         18         20         24         26         38         300         32         34         36         38         40         42         44         46         50         52         54         56         58         60         62         64         66         72         74	MAINS         MAINS         MAINS         MAINS         MAINS         AMP         20 A         20 A         20 A         20 A         30 A         20 A	S TYPE RATING RATING 1 1 1 1 3 3 3 1 1 1 1 1	: MLO : 225 A : 225 A FRIDO FRIDO	JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR VATER HEATER OOR OPERATOR VATER HEATER
CIRCUIT D           (E) REC           (E) RECE           MICROWAVE           RECE															
   | SUPPLY FROM:<br>MOUNTING: SUF<br>ENCLOSURE: TYP<br>ENCLOSURE: TYP<br>SUPPACIE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETACLE<br>ETA | P       1 <t< td=""><td>AMP         20 A         20 A      <tr< td=""><td>NO       1       3       5       7       9       11       13       15       17       13       15       27       21       23       25       27       33       33       35       37       39       41       43       45       47       49       51       53       55       57       59       61       63       65       67       69       71</td><td>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>1200       1         1200       1         2306       1         2306       1         2306       1         2306       1         360       1         360       1         360       1         180       1         19       1         19       1         19       1         19       1         19       1         19       1</td><td>IASES:       2         WIRES:       2         0       2         0       2         0       2         0       2         0       2         0       2         1600       2         360       2         180       2         360       2         360       2         360       2         360       2         180       2         360       2         900       2         900       2         0       2         0       2         180       2         360       2         360       2         360       2         360       2         360       2         360       2         360       2         360       3         360       3         360       3         360       3         360       3         360       3         360       3         360       3</td><td>3<br/>4<br/>4<br/>0<br/>2306<br/>2306<br/>360</td><td>C</td><td>1200<br/>2306<br/>2306<br/>360</td><td>NO         2         4         6         8         10         12         14         16         18         20         24         16         18         20         24         16         18         20         24         36         30         32         34         36         38         40         42         44         46         50         52         54         56         58         60         62         64         66         70         72</td><td>AMAINS         MAINS       
 MAINS         MAINS         MC         20 A         20 A         20 A         20 A         30 A         20 A         30 A         30 A         20 A         30 A         30 A         20 A         30 A</td><td>S TYPE<br/>RATING<br/>RATING<br/>1<br/>1<br/>1<br/>1<br/>3<br/>3<br/>3<br/>1<br/>1<br/>1<br/>1<br/>1</td><td>: MLO<br/>: 225 A<br/>: 225 A<br/>FRIDO<br/>FRIDO</td><td>JIT DESCRIPTION<br/>GE (GFCI BREAKER)<br/>(E) LIGHTING<br/>GE (GFCI BREAKER)<br/>RTU-2<br/>RTU-2<br/>RTU-1<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>OOR OPERATOR<br/>VATER HEATER<br/>OOR OPERATOR<br/>VATER HEATER</td></tr<></td></t<>   | AMP         20 A         20 A <tr< td=""><td>NO       1       3       5       7       9       11       13       15       17       13       15       27       21       23       25       27       33       33       35       37       39       41       43       45       47       49       51       53       55       57       59       61       63       65       67       69       71</td><td>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>1200       1         1200       1         2306       1         2306       1         2306       1         2306       1         360       1         360       1         360       1         180       1         180       1         180       1         180       1         180       1         180       1         180       1         180       1         180       1         180       1       
 180       1         180       1         180       1         180       1         180       1         180       1         180       1         180       1         180       1         180       1         180       1         180       1         19       1         19       1         19       1         19       1         19       1         19       1</td><td>IASES:       2         WIRES:       2         0       2         0       2         0       2         0       2         0       2         0       2         1600       2         360       2         180       2         360       2         360       2         360       2         360       2         180       2         360       2         900       2         900       2         0       2         0       2         180       2         360       2         360       2         360       2         360       2         360       2         360       2         360       2         360       3         360       3         360       3         360       3         360       3         360       3         360       3         360       3</td><td>3<br/>4<br/>4<br/>0<br/>2306<br/>2306<br/>360</td><td>C</td><td>1200<br/>2306<br/>2306<br/>360</td><td>NO         2         4         6         8         10         12         14         16         18         20         24         16         18         20         24         16         18         20         24         36         30         32         34         36         38         40         42         44         46         50         52         54         56         58         60         62         64         66         70         72</td><td>AMAINS         MAINS         MAINS         MAINS         MC         20 A         20 A         20 A         20 A         30 A         20 A         30 A         30 A         20 A         30 A         30 A         20 A         30 A</td><td>S TYPE<br/>RATING<br/>RATING<br/>1<br/>1<br/>1<br/>1<br/>3<br/>3<br/>3<br/>1<br/>1<br/>1<br/>1<br/>1</td><td>: MLO<br/>: 225 A<br/>: 225 A<br/>FRIDO<br/>FRIDO</td><td>JIT DESCRIPTION<br/>GE (GFCI BREAKER)<br/>(E) LIGHTING<br/>GE (GFCI BREAKER)<br/>RTU-2<br/>RTU-2<br/>RTU-1<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>OOR OPERATOR<br/>VATER HEATER<br/>OOR OPERATOR<br/>VATER HEATER</td></tr<>  | NO       1       3       5       7       9       11       13       15       17       13       15       27       21       23       25       27       33       33       35       37       39       41       43       45       47       49       51       53       55       57       59       61       63       65       67       69       71   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 1200       1         1200       1         2306       1         2306       1         2306       1         2306       1         360       1         360       1         360       1         180       1         19       1         19       1         19       1         19       1         19       1         19       1  | IASES:       2         WIRES:       2         0       2         0       2         0       2         0       2         0       2         0       2         1600       2         360       2         180       2         360       2         360       2         360       2         360       2         180       2         360       2         900       2         900       2         0       2         0       2         180       2         360       2         360       2         360       2         360       2         360       2         360       2         360       2         360       3         360       3         360       3         360       3         360       3         360       3         360       3         360       3      | 3<br>4<br>4<br>0<br>2306<br>2306<br>360  | C   | 1200<br>2306<br>2306<br>360  | NO         2         4         6         8         10         12         14         16         18         20         24         16         18         20         24         16         18         20         24         36         30         32         34         36         38         40         42         44         46         50         52         54         56         58         60         62         64         66         70         72   | AMAINS         MAINS         MAINS         MAINS         MC         20 A         20 A       
 20 A         20 A         30 A         20 A         30 A         30 A         20 A         30 A         30 A         20 A         30 A   | S TYPE<br>RATING<br>RATING<br>1<br>1<br>1<br>1<br>3<br>3<br>3<br>1<br>1<br>1<br>1<br>1   | : MLO<br>: 225 A<br>: 225 A<br>FRIDO<br>FRIDO   | JIT DESCRIPTION<br>GE (GFCI BREAKER)<br>(E) LIGHTING<br>GE (GFCI BREAKER)<br>RTU-2<br>RTU-2<br>RTU-1<br>RECEPTACLE<br>RECEPTACLE<br>RECEPTACLE<br>RECEPTACLE<br>RECEPTACLE<br>OOR OPERATOR<br>VATER HEATER<br>OOR OPERATOR<br>VATER HEATER  
  |
| CIRCUIT D           (E) REQ           REQE           REQE </td <td>SUPPLY FROM:<br/>MOUNTING: SUF<br/>ENCLOSURE: TYP<br/>ENCLOSURE: TYP<br/>DESCRIPTION<br/>CEPTACLE<br/>CEPTACLE<br/>CEPTACLE<br/>CEPTACLE<br/>CEPTACLE<br/>CEPTACLE<br/>CEPTACLE<br/>CEPTACLE<br/>CEPTACLE<br/>CEPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE<br/>EPTACLE</td> <td>P       1    <t< td=""><td>EAMP20 A20 A<trr>20 A<trr>20 A<td>NO       1       3       5       7       9       11       13       15       17       13       15       17       19       21       23       25       27       29       31       33       35       37       39       41       43       45       47       9       51       53       55       57       61       63       65       67       69       71       73</td><td>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>1200       1         1200       1         2306       1         2306       1         2306       1         2306       1         360       1         360       1         360       1         180       1         19       1         19       1         19       1         19       1         19       1         19       1</td><td>IASES:       I         WIRES:       I         0       I         0       I         0       I         0       I         0       I         0       I         0       I         1600       I         360       I         720       I         360       I         180       I         360       I         900       I         900       I         0       I         180       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I</td><td></td><td>720   720   720   720   360   360   360   360   720</td><td>1200<br/>2306<br/>2306<br/>360<br/>360<br/>192<br/>192<br/>192</td><td>NO         2         4         6         10         12         14         16         18         20         24         6         38         200         22         24         26         28         300         32         34         36         38         40         42         36         38         40         42         44         50         52         54         56         58         60         62         64         66         74         76</td><td>MAINS<br/>MAINS<br/>MCBI<br/>30 A<br/>20 A<br/>20 A<br/>30 A<br/>30 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>2</td><td>S TYPE<br/>RATING<br/>RATING<br/>1<br/>1<br/>1<br/>1<br/>3<br/>3<br/>3<br/>1<br/>1<br/>1<br/>1<br/>1</td><td>: MLO<br/>: 225 A<br/>: 225 A<br/>FRIDO<br/>FRIDO</td><td>JIT DESCRIPTION<br/>GE (GFCI BREAKER)<br/>(E) LIGHTING<br/>GE (GFCI BREAKER)<br/>RTU-2<br/>RTU-2<br/>RTU-1<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>OOR OPERATOR<br/>VATER HEATER<br/>OOR OPERATOR<br/>VATER HEATER</td></trr></trr></td></t<></td>  
  | SUPPLY FROM:<br>MOUNTING: SUF<br>ENCLOSURE: TYP<br>ENCLOSURE: TYP<br>DESCRIPTION<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE   | P       1 <t< td=""><td>EAMP20 A20 A<trr>20 A<trr>20 A<td>NO       1       3       5       7       9       11       13       15       17       13       15       17       19       21       23       25       27       29       31       33       35       37       39       41       43       45       47       9       51       53       55       57       61       63       65       67       69       71       73</td><td>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>1200       1         1200       1         2306       1         2306       1         2306       1         2306       1         360       1         360       1         360       1         180       1         19       1         19       1         19       1         19       1         19       1         19       1</td><td>IASES:       I         WIRES:       I         0       I         0       I         0       I         0       I         0       I         0       I         0       I         1600       I         360       I         720       I         360       I         180       I         360       I         900       I         900       I         0       I         180       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I</td><td></td><td>720   720   720   720   360   360   360   360   720</td><td>1200<br/>2306<br/>2306<br/>360<br/>360<br/>192<br/>192<br/>192</td><td>NO         2         4         6         10         12         14         16         18         20         24         6         38         200         22         24         26         28         300         32         34         36         38         40         42         36         38         40         42         44         50         52         54         56         58     
   60         62         64         66         74         76</td><td>MAINS<br/>MAINS<br/>MCBI<br/>30 A<br/>20 A<br/>20 A<br/>30 A<br/>30 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>2</td><td>S TYPE<br/>RATING<br/>RATING<br/>1<br/>1<br/>1<br/>1<br/>3<br/>3<br/>3<br/>1<br/>1<br/>1<br/>1<br/>1</td><td>: MLO<br/>: 225 A<br/>: 225 A<br/>FRIDO<br/>FRIDO</td><td>JIT DESCRIPTION<br/>GE (GFCI BREAKER)<br/>(E) LIGHTING<br/>GE (GFCI BREAKER)<br/>RTU-2<br/>RTU-2<br/>RTU-1<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>OOR OPERATOR<br/>VATER HEATER<br/>OOR OPERATOR<br/>VATER HEATER</td></trr></trr></td></t<>  | EAMP20 A20 A <trr>20 A<trr>20 A<td>NO       1       3       5       7       9       11       13       15       17       13       15       17       19       21       23       25       27       29       31       33       35       37       39       41       43       45       47       9       51       53       55       57       61       63       65       67       69       71       73</td><td>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>1200       1         1200       1
        2306       1         2306       1         2306       1         2306       1         360       1         360       1         360       1         180       1         19       1         19       1         19       1         19       1         19       1         19       1</td><td>IASES:       I         WIRES:       I         0       I         0       I         0       I         0       I         0       I         0       I         0       I         1600       I         360       I         720       I         360       I         180       I         360       I         900       I         900       I         0       I         180       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I</td><td></td><td>720   720   720   720   360   360   360   360   720</td><td>1200<br/>2306<br/>2306<br/>360<br/>360<br/>192<br/>192<br/>192</td><td>NO         2         4         6         10         12         14         16         18         20         24         6         38         200         22         24         26         28         300         32         34         36         38         40         42         36         38         40         42         44         50         52         54         56         58         60         62         64         66         74         76</td><td>MAINS<br/>MAINS<br/>MCBI<br/>30 A<br/>20 A<br/>20 A<br/>30 A<br/>30 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>2</td><td>S TYPE<br/>RATING<br/>RATING<br/>1<br/>1<br/>1<br/>1<br/>3<br/>3<br/>3<br/>1<br/>1<br/>1<br/>1<br/>1</td><td>: MLO<br/>: 225 A<br/>: 225 A<br/>FRIDO<br/>FRIDO</td><td>JIT DESCRIPTION<br/>GE (GFCI BREAKER)<br/>(E) LIGHTING<br/>GE (GFCI BREAKER)<br/>RTU-2<br/>RTU-2<br/>RTU-1<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>OOR OPERATOR<br/>VATER HEATER<br/>OOR OPERATOR<br/>VATER HEATER</td></trr></trr>   | NO       1       3       5       7       9       11       13       15       17       13       15       17       19       21       23       25       27       29       31       33       35       37       39       41       43       45       47       9       51       53       55       57       61       63       65       67       69       71       73  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 1200       1         1200       1         2306       1         2306       1         2306       1         2306       1         360       1         360       1         360       1         180       1         19       1         19       1         19       1         19       1         19       1         19       1  | IASES:       I         WIRES:       I         0       I         0       I         0       I         0       I         0       I         0       I         0       I         1600       I         360       I         720       I         360       I         180       I         360       I         900       I         900       I         0       I         180       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I                        |  | 720   720   720   720   360   360   360   360   720 | 1200<br>2306<br>2306<br>360<br>360<br>192<br>192<br>192  
   | NO         2         4         6         10         12         14         16         18         20         24         6         38         200         22         24         26         28         300         32         34         36         38         40         42         36         38         40         42         44         50         52         54         56         58         60         62         64         66         74         76   | MAINS<br>MAINS<br>MCBI<br>30 A<br>20 A<br>20 A<br>30 A<br>30 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>2  | S TYPE<br>RATING<br>RATING<br>1<br>1<br>1<br>1<br>3<br>3<br>3<br>1<br>1<br>1<br>1<br>1   | : MLO<br>: 225 A<br>: 225 A<br>FRIDO<br>FRIDO   | JIT DESCRIPTION<br>GE (GFCI BREAKER)<br>(E) LIGHTING<br>GE (GFCI BREAKER)<br>RTU-2<br>RTU-2<br>RTU-1<br>RECEPTACLE<br>RECEPTACLE<br>RECEPTACLE<br>RECEPTACLE<br>RECEPTACLE<br>OOR OPERATOR<br>VATER HEATER<br>OOR OPERATOR<br>VATER HEATER   
   |
| CIRCUIT D           (E) REC           MICROWAVE           RECE   
   | SUPPLY FROM:<br>MOUNTING: SUF<br>ENCLOSURE: TYP<br>ENCLOSURE: TYP<br>DESCRIPTION<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE  | P       1 <t< td=""><td>EAMP20 A20 A<trr>20 A20 A<trr< td=""><td>NO           1           3           5           7           9           11           3           15           17           9           11           3           15           17           9           13           15           7           9           11           13           15           7           9           31           33           35           37           39           41           43           45           47           49           51           57           59           61           63           67           69           71           73           75           77           79</td><td>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>1200         1           1200         1           2306         1           2306         1           2306         1           360         1           360         1           360         1           360         1           18</td><td></td><td></td><td></td><td>1200<br/>2306<br/>2306<br/>2306<br/>360<br/>360<br/>192<br/>360<br/>360<br/>360<br/>360<br/>360<br/>360<br/>360<br/>360<br/>360<br/>360</td><td>NO         2         4         6         10         12         14         16         18         20         24         6         38         200         22         24         26         28         30         32         34         36         38         40         42         36         38         40         42         36         37         38         40         42         44         46         50         52         54         56         60         62         64         66         68         70         72         74         76         78         80</td><td>MAINS<br/>MAINS<br/>MC BI<br/>30 A<br/>20 A<br/>20 A<br/>20 A<br/>30 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>2</td><td>S
TYPE<br/>RATING<br/>RATING<br/>1<br/>1<br/>1<br/>1<br/>3<br/>3<br/>3<br/>1<br/>1<br/>1<br/>1<br/>1</td><td>: MLO<br/>: 225 A<br/>: 225 A<br/>FRIDO<br/>FRIDO</td><td>JIT DESCRIPTION<br/>GE (GFCI BREAKER)<br/>(E) LIGHTING<br/>GE (GFCI BREAKER)<br/>RTU-2<br/>RTU-2<br/>RTU-1<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>OOR OPERATOR<br/>VATER HEATER<br/>OOR OPERATOR<br/>VATER HEATER<br/>COR<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE</td></trr<></trr></td></t<>  | EAMP20 A20 A <trr>20 A20 A<trr<
td=""><td>NO           1           3           5           7           9           11           3           15           17           9           11           3           15           17           9           13           15           7           9           11           13           15           7           9           31           33           35           37           39           41           43           45           47           49           51           57           59           61           63           67           69           71           73           75           77           79</td><td>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>1200         1           1200         1           2306         1           2306         1           2306         1           360         1           360         1           360         1           360         1           18</td><td></td><td></td><td></td><td>1200<br/>2306<br/>2306<br/>2306<br/>360<br/>360<br/>192<br/>360<br/>360<br/>360<br/>360<br/>360<br/>360<br/>360<br/>360<br/>360<br/>360</td><td>NO         2         4         6         10         12         14         16         18         20         24         6         38         200         22         24         26         28         30         32         34         36         38         40         42         36         38         40         42         36         37         38         40         42         44         46         50         52         54         56         60         62         64         66         68         70         72         74         76         78         80</td><td>MAINS<br/>MAINS<br/>MC BI<br/>30 A<br/>20 A<br/>20 A<br/>20 A<br/>30 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>20 A<br/>2</td><td>S TYPE<br/>RATING<br/>RATING<br/>1<br/>1<br/>1<br/>1<br/>3<br/>3<br/>3<br/>1<br/>1<br/>1<br/>1<br/>1</td><td>: MLO<br/>: 225 A<br/>: 225 A<br/>FRIDO<br/>FRIDO</td><td>JIT DESCRIPTION<br/>GE (GFCI BREAKER)<br/>(E) LIGHTING<br/>GE (GFCI BREAKER)<br/>RTU-2<br/>RTU-2<br/>RTU-1<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>OOR OPERATOR<br/>VATER HEATER<br/>OOR OPERATOR<br/>VATER HEATER<br/>COR<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE</td></trr<></trr>   | NO           1           3           5           7           9           11           3           15           17           9           11           3           15           17           9           13           15           7           9           11           13           15           7           9           31           33           35           37           39           41           43           45           47           49           51           57           59           61           63           67           69           71           73           75           77           79  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 1200         1           1200         1           2306         1           2306         1           2306         1           360         1           360         1           360         1           360         1           18  |   |  |   
   | 1200<br>2306<br>2306<br>2306<br>360<br>360<br>192<br>360<br>360<br>360<br>360<br>360<br>360<br>360<br>360<br>360<br>360  | NO         2         4         6         10         12         14         16         18         20         24         6         38         200         22         24         26         28         30         32         34         36         38         40         42         36         38         40         42         36         37         38         40         42         44         46         50         52         54         56         60         62         64         66         68         70         72         74         76         78         80              | MAINS<br>MAINS<br>MC BI<br>30 A<br>20 A<br>20 A<br>20 A<br>30 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>20 A<br>2   | S TYPE<br>RATING<br>RATING<br>1<br>1<br>1<br>1<br>3<br>3<br>3<br>1<br>1<br>1<br>1<br>1   | : MLO<br>: 225 A<br>: 225 A<br>FRIDO<br>FRIDO   
   | JIT DESCRIPTION<br>GE (GFCI BREAKER)<br>(E) LIGHTING<br>GE (GFCI BREAKER)<br>RTU-2<br>RTU-2<br>RTU-1<br>RECEPTACLE<br>RECEPTACLE<br>RECEPTACLE<br>RECEPTACLE<br>RECEPTACLE<br>OOR OPERATOR<br>VATER HEATER<br>OOR OPERATOR<br>VATER HEATER<br>COR<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE   |
| CIRCUIT D           (E) REC           MICROWAVE           RECE   
  | SUPPLY FROM:<br>MOUNTING: SUF<br>ENCLOSURE: TYP<br>ENCLOSURE: TYP<br>DESCRIPTION<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>CEPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE<br>EPTACLE   | P       1 <t< td=""><td>AMP20 A20 A21 A22 A23 A24 A25 A26 A27 A28 A29 A29 A20 A20 A20 A20 A21 A22 A23 A24 A25 A26 A27 A<trr>28 A29 A29 A<!--</td--><td>NO           1           3           5           7           9           11           3           15           17           9           11           12           17           9           21           23           25           27           29           31           33           35           37           39           41           43           45           47           9           51           57           59           61           63           65           67           9           61           63           65           67           9           61           63           67           9           71           73           75           77           79           81</td><td>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>1200         1           1200         1           2306         1           2306         1           2306         1           360         1           37         1           38         1           39         1           30</td></trr></td></t<> <td></td> <td>3<br/>4<br/>3<br/>3<br/>0<br/>2<br/>3<br/>3<br/>3<br/>3<br/>3<br/>3<br/>3<br/>3<br/>3<br/>3<br/>3<br/>3<br/>3<br/>3<br/>3<br/>3</td> <td></td> <td>1200<br/>2306<br/>2306<br/>2306<br/>360<br/>360<br/>192<br/>192<br/>360<br/>360<br/>360<br/>360<br/>360<br/>360<br/>360<br/>360<br/>360<br/>360</td> <td>NO         2         4         6         10         12         14         16         18         20         24         16         18         20         24         16         18         20         24         26         28         30         32         34         36         30         32         34         36         37         38         40         42         44         46         48         50         52         54         56         58         60         62         64         66         68
        70         72         74         76         80         82</td> <td>AAINS         MAINS         MAINS         MAINS         20 A         20 A</td> <td>S TYPE         RATING         RATING         P         1</td> <td>: MLO<br/>: 225 A<br/>: 225 A<br/>FRIDO<br/>FRIDO</td> <td>JIT DESCRIPTION<br/>GE (GFCI BREAKER)<br/>(E) LIGHTING<br/>GE (GFCI BREAKER)<br/>RTU-2<br/>RTU-2<br/>RTU-2<br/>RTU-1<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>RECEPTACLE<br/>OOR OPERATOR<br/>VATER HEATER<br/>OOR OPERATOR<br/>VATER HEATER<br/>COR<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE<br/>SPACE</td>  | AMP20 A20 A21 A22 A23 A24 A25 A26 A27 A28 A29 A29 A20 A20 A20 A20 A21 A22 A23 A24 A25 A26 A27 A <trr>28 A29 A29 A<!--</td--><td>NO           1           3           5           7           9           11           3           15           17           9           11           12           17           9           21           23           25           27           29           31           33           35           37           39           41           43           45           47           9           51           57           59           61           63           65           67           9           61           63           65           67 
         9           61           63           67           9           71           73           75           77           79           81</td><td>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>1200         1           1200         1           2306         1           2306         1           2306         1           360         1           37         1           38         1           39         1           30</td></trr>  | NO           1           3           5           7           9           11           3           15           17           9           11           12           17           9           21           23           25           27           29           31           33           35           37           39           41           43           45           47           9           51           57           59           61           63           65           67           9           61           63           65           67           9           61           63           67           9           71           73           75           77           79           81 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 1200         1           1200         1           2306         1           2306         1           2306         1           360         1           37         1           38         1           39         1           30   |   | 3<br>4<br>3<br>3<br>0<br>2<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 |   | 1200<br>2306<br>2306<br>2306<br>360<br>360<br>192<br>192<br>360<br>360<br>360<br>360<br>360<br>360<br>360<br>360<br>360<br>360                                   
   | NO         2         4         6         10         12         14         16         18         20         24         16         18         20         24         16         18         20         24         26         28         30         32         34         36         30         32         34         36         37         38         40         42         44         46         48         50         52         54         56         58         60         62         64         66         68         70         72         74         76         80         82   | AAINS         MAINS         MAINS         MAINS         20 A  | S TYPE         RATING         RATING         P         1 | : MLO<br>: 225 A<br>: 225 A<br>FRIDO<br>FRIDO   | JIT DESCRIPTION<br>GE (GFCI BREAKER)<br>(E) LIGHTING<br>GE (GFCI BREAKER)<br>RTU-2<br>RTU-2<br>RTU-2<br>RTU-1<br>RECEPTACLE<br>RECEPTACLE<br>RECEPTACLE<br>RECEPTACLE<br>RECEPTACLE<br>OOR OPERATOR<br>VATER HEATER<br>OOR OPERATOR<br>VATER HEATER<br>COR<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE  
  |
CIRCUIT D           (E) REC           (E) RECE           MICROWAVE           RECE	SUPPLY FROM:         MOUNTING:       SUF         ENCLOSURE:       TYP         DESCRIPTION       Image: Stress of the s	P       1 <t< td=""><td>AMP           20 A           20 A&lt;</td><td>NO         1         3         5         7         9         11         13         15         17         92         13         15         27         29         31         35         37         39         41         43         45         47         49         51         57         59         61         63         65         67         69         71         73         75         79         81         83</td><td>0  0  0  0  0  0  0  0  0  0  0  0  0</td><td>1200         1           1200         1           2306         1           2306         1           2306         1           360         1           360         1           180         1           19</td><td></td><td>3 4 3 3 0 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3</td><td>C C C C C C C C C C C C C C</td><td>1200 2306 2306 2306 360 360 192 192 360 360 360 360 360 360 360 360 360 360</td><td>NO         2         4         6         10         12         14         16         18         20         24         16         18         20         24         16         18         20         24         26         28         30         32         34         36         30         32         34         36         37         38         40         42         44         46         48         50         52         54         56         58         60         62         64         66         68         70         72         74         76         80         82</td><td>AAINS         MAINS         MAINS         MAINS         20 A         20 A</td><td>S TYPE         RATING         RATING         P         1</td><td>: MLO : 225 A : 225 A FRIDO FRIDO</td><td>JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR VATER HEATER OOR OPERATOR VATER HEATER COR SPACE SPACE SPACE SPACE SPACE SPACE</td></t<>	AMP           20 A           20 A<	NO         1         3         5         7         9         11         13         15         17         92         13         15         27         29         31         35         37         39         41         43         45         47         49         51         57         59         61         63         65         67         69         71         73         75         79         81         83	0  0  0  0  0  0  0  0  0  0  0  0  0	1200         1           1200         1           2306         1           2306         1           2306         1           360         1           360         1           180         1           19		3 4 3 3 0 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	C C C C C C C C C C C C C C	1200 2306 2306 2306 360 360 192 192 360 360 360 360 360 360 360 360 360 360	NO         2         4         6         10         12         14         16         18         20         24         16         18         20         24         16         18         20         24         26         28         30         32         34         36         30         32         34         36         37         38         40         42         44         46         48         50         52         54         56         58         60         62         64         66         68         70         72         74         76         80         82	AAINS         MAINS         MAINS         MAINS         20 A	S TYPE         RATING         RATING         P         1	: MLO : 225 A : 225 A FRIDO FRIDO	JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR VATER HEATER OOR OPERATOR VATER HEATER COR SPACE SPACE SPACE SPACE SPACE SPACE
CIRCUIT D           (E) REC           (E) RECE           RECE <t< td=""><td>SUPPLY FROM:       MOUNTING:       SUF         MOUNTING:       SUF         ENCLOSURE:       TYP         DESCRIPTION       SUPPLACLE         CEPTACLE       SUPPLACLE         EPTACLE       SUPPLACLE</td><td>P       1    <t< td=""><td>E       AMP         20 A                         </td><td>NO         1         3         5         7         9         11         13         15         17         92         11         12         27         29         31         35         37         39         41         43         45         47         49         51         57         59         61         63         65         67         69         71         73         75         61         63         65         67         68         67         83         83</td><td>0</td><td>1200         1           1200         1           2306         1           2306         1           2306         1           2306         1           360         1           360         1           180         1           190         1           1</td><td>IASES:       I         WIRES:       I         0       I         0       I         0       I         0       I         0       I         0       I         1600       I         360       I         720       I         360       I         180       I         360       I         360       I         900       I         0       I         180       I         180       I         900       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I</td><td>3 4 3 4 0 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3</td><td>ESTIMAT</td><td>1200   1200   2306   2306   2306   360   192   193   194   195</td><td>NO         2         4         6         10         12         14         16         18         20         24         16         18         20         24         30         32         34         36         38         40         42         34         36         37         38         40         42         44         46         50         52         54         50         52         54         56         58         60         62         64         68         70         72         74         76         84         74         76         84          74          75</td><td>AAINS         MAINS         MAINS         MAINS         20 A         20 A</td><td>S TYPE         RATING         RATING         P         1</td><td>: MLO : 225 A : 225 A FRIDO FRIDO</td><td>JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR VATER HEATER OOR OPERATOR VATER HEATER COR SPACE SPACE SPACE SPACE SPACE SPACE SPACE</td></t<></td></t<>	SUPPLY FROM:       MOUNTING:       SUF         MOUNTING:       SUF         ENCLOSURE:       TYP         DESCRIPTION       SUPPLACLE         CEPTACLE       SUPPLACLE         EPTACLE       SUPPLACLE	P       1 <t< td=""><td>E       AMP         20 A                         </td><td>NO         1         3         5         7         9         11         13         15         17         92         11         12         27         29         31         35         37         39         41         43         45         47         49         51         57         59         61         63         65         67         69         71         73         75         61         63         65         67         68         67         83         83</td><td>0</td><td>1200         1           1200         1           2306         1           2306         1           2306         1           2306         1           360         1           360         1           180         1           190         1           1</td><td>IASES:       I         WIRES:       I         0       I         0       I         0       I         0       I         0       I         0       I         1600       I         360       I         720       I         360       I         180       I         360       I         360       I         900       I         0       I         180       I         180       I         900       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I</td><td>3 4 3 4 0 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3</td><td>ESTIMAT</td><td>1200   1200   2306   2306   2306   360   192   193   194   195</td><td>NO         2         4         6         10         12         14         16         18         20         24         16         18         20         24         30         32         34         36         38         40         42         34         36         37         38         40         42         44         46         50         52         54         50         52         54         56         58         60         62         64         68         70         72         74         76         84         74         76         84          74          75</td><td>AAINS         MAINS         MAINS         MAINS         20 A         20 A</td><td>S TYPE         RATING         RATING         P         1</td><td>: MLO : 225 A : 225 A FRIDO FRIDO</td><td>JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR VATER HEATER OOR OPERATOR VATER HEATER COR SPACE SPACE SPACE SPACE SPACE SPACE SPACE</td></t<>	E       AMP         20 A	NO         1         3         5         7         9         11         13         15         17         92         11         12         27         29         31         35         37         39         41         43         45         47         49         51         57         59         61         63         65         67         69         71         73         75         61         63         65         67         68         67         83         83	0	1200         1           1200         1           2306         1           2306         1           2306         1           2306         1           360         1           360         1           180         1           190         1           1	IASES:       I         WIRES:       I         0       I         0       I         0       I         0       I         0       I         0       I         1600       I         360       I         720       I         360       I         180       I         360       I         360       I         900       I         0       I         180       I         180       I         900       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I	3 4 3 4 0 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	ESTIMAT	1200   1200   2306   2306   2306   360   192   193   194   195	NO         2         4         6         10         12         14         16         18         20         24         16         18         20         24         30         32         34         36         38         40         42         34         36         37         38         40         42         44         46         50         52         54         50         52         54         56         58         60         62         64         68         70         72         74         76         84         74         76         84          74          75	AAINS         MAINS         MAINS         MAINS         20 A	S TYPE         RATING         RATING         P         1	: MLO : 225 A : 225 A FRIDO FRIDO	JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR VATER HEATER OOR OPERATOR VATER HEATER COR SPACE SPACE SPACE SPACE SPACE SPACE SPACE
CIRCUIT D           (E) REC           (E) RECE           RECE <t< td=""><td>SUPPLY FROM:       MOUNTING:       SUF         MOUNTING:       SUF         ENCLOSURE:       TYP         DESCRIPTION       SUPPLACLE         CEPTACLE       SUPPLACLE         EPTACLE       SUPPLACLE</td><td>P       1    <t< td=""><td>AMP         20 A         20 A      <tr< td=""><td>NO         1         3         5         7         9         11         13         15         17         9         11         13         15         7         9         11         13         15         7         9         11         13         15         7         9         31         35         37         39         41         43         45         47         49         51         57         59         61         63         65         67         69         71         73         75         77         81         83          83          83          83          81          83    </td></tr<></td></t<><td>0</td><td>1200         1           1200         1           2306         1           2306         1           2306         1           360         1           360         1           360         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           19         1           10         1           11         1           11         1           11         1           11         1           12         1           13         1           14         1           15         1           16         1           17         1           18</td><td>IASES:       I         WIRES:       I         0       I         0       I         0       I         0       I         0       I         0       I         1600       I         360       I         9000       I         180       I         900       I         I       I         900       I         I       I         900       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       &lt;</td><td>3 4 3 4 0 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3</td><td>ESTIMAT () () () () () () () () () ()</td><td>1200 2306 2306 2306 360 360 192 360 192 360 360 360 360 360 360 360 360 360 360</td><td>NO         2         4         6         10         12         14         16         18         20         24         16         18         20         24         30         32         34         36         38         40         42         34         36         37         38         40         42         44         46         50         52         54         50         52         54         56         58         60         62         64         68         70         72         74         76         84         74         76         84          74          75</td><td>MAINS MAINS MC BI MC BI MC</td><td>S TYPE         RATING         ATING         1         1         1         1         1         1         1         3         1</td><td><ul> <li>MLO</li> <li>225 A</li> <li>225 A</li> <li>225 A</li> <li>FRIDO</li> <li>FRIDO</li> <li>FRIDO</li> <li>O</li> <l< td=""><td>JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR VATER HEATER OOR OPERATOR VATER HEATER COTALS SPACE</td></l<></ul></td></td></t<>	SUPPLY FROM:       MOUNTING:       SUF         MOUNTING:       SUF         ENCLOSURE:       TYP         DESCRIPTION       SUPPLACLE         CEPTACLE       SUPPLACLE         EPTACLE       SUPPLACLE	P       1 <t< td=""><td>AMP         20 A         20 A      <tr< td=""><td>NO         1         3         5         7         9         11         13         15         17         9         11         13         15         7         9         11         13         15         7         9         11         13         15         7         9         31         35         37         39         41         43         45         47         49         51         57         59         61         63         65         67         69         71         73         75         77         81         83          83          83          83          81          83    </td></tr<></td></t<> <td>0</td> <td>1200         1           1200         1           2306         1           2306         1           2306         1           360         1           360         1           360         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           19         1           10         1           11         1           11         1           11         1           11         1           12         1           13         1           14         1           15         1           16         1           17         1           18</td> <td>IASES:       I         WIRES:       I         0       I         0       I         0       I         0       I         0       I         0       I         1600       I         360       I         9000       I         180       I         900       I         I       I         900       I         I       I         900       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       &lt;</td> <td>3 4 3 4 0 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3</td> <td>ESTIMAT () () () () () () () () () ()</td> <td>1200 2306 2306 2306 360 360 192 360 192 360 360 360 360 360 360 360 360 360 360</td> <td>NO         2         4         6         10         12         14         16         18         20         24         16         18         20         24         30         32         34         36         38         40         42         34         36         37         38         40         42         44         46         50         52         54         50         52         54         56         58         60         62         64         68         70         72         74         76         84         74         76         84          74          75</td> <td>MAINS MAINS MC BI MC BI MC</td> <td>S TYPE         RATING         ATING         1         1         1         1         1         1         1         3         1</td> <td><ul> <li>MLO</li> <li>225 A</li> <li>225 A</li> <li>225 A</li> <li>FRIDO</li> <li>FRIDO</li> <li>FRIDO</li> <li>O</li> <l< td=""><td>JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR VATER HEATER OOR OPERATOR VATER HEATER COTALS SPACE</td></l<></ul></td>	AMP         20 A         20 A <tr< td=""><td>NO         1         3         5         7         9         11         13         15         17         9         11         13         15         7         9         11         13         15         7         9         11         13         15         7         9         31         35         37         39         41         43         45         47         49         51         57         59         61         63         65         67         69         71         73         75         77         81         83          83          83          83          81          83    </td></tr<>	NO         1         3         5         7         9         11         13         15         17         9         11         13         15         7         9         11         13         15         7         9         11         13         15         7         9         31         35         37         39         41         43         45         47         49         51         57         59         61         63         65         67         69         71         73         75         77         81         83          83          83          83          81          83	0	1200         1           1200         1           2306         1           2306         1           2306         1           360         1           360         1           360         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           180         1           19         1           10         1           11         1           11         1           11         1           11         1           12         1           13         1           14         1           15         1           16         1           17         1           18	IASES:       I         WIRES:       I         0       I         0       I         0       I         0       I         0       I         0       I         1600       I         360       I         9000       I         180       I         900       I         I       I         900       I         I       I         900       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       I         I       <	3 4 3 4 0 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	ESTIMAT () () () () () () () () () ()	1200 2306 2306 2306 360 360 192 360 192 360 360 360 360 360 360 360 360 360 360	NO         2         4         6         10         12         14         16         18         20         24         16         18         20         24         30         32         34         36         38         40         42         34         36         37         38         40         42         44         46         50         52         54         50         52         54         56         58         60         62         64         68         70         72         74         76         84         74         76         84          74          75	MAINS MAINS MC BI MC	S TYPE         RATING         ATING         1         1         1         1         1         1         1         3         1	<ul> <li>MLO</li> <li>225 A</li> <li>225 A</li> <li>225 A</li> <li>FRIDO</li> <li>FRIDO</li> <li>FRIDO</li> <li>O</li> <l< td=""><td>JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR VATER HEATER OOR OPERATOR VATER HEATER COTALS SPACE</td></l<></ul>	JIT DESCRIPTION GE (GFCI BREAKER) (E) LIGHTING GE (GFCI BREAKER) RTU-2 RTU-2 RTU-1 RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE RECEPTACLE OOR OPERATOR VATER HEATER OOR OPERATOR VATER HEATER COTALS SPACE

Α

# RE EXISTING. REUSE EXISTING BREAKERS AS APPLICABLE FOR NEW BRANCH CIRCUITS\*\*

	CE  	20 A 20 A 20 A	CKT NO           1           3           5           7           9           11           13           15           17           19           21	0		OLTAGE: PHASES: WIRES: 0 0	3		0
3 3 3 1 1 1 1 1		20 A 20 A 20 A 20 A	NO           1           3           5           7           9           11           13           15           17           19	0	0 	0		0	
3 3 3 1 1 1 1 1		20 A 20 A 20 A 20 A	NO           1           3           5           7           9           11           13           15           17           19	0	0 	0		0	
3 3 1 1 1 1 1		20 A 20 A 20 A	3 5 7 9 11 13 15 17 19	0		0		0	
3 3 1 1 1 1 1		20 A 20 A 20 A	5 7 9 11 13 15 17 19	0		0		0	
3 1 1 1 1		20 A 20 A	7 9 11 13 15 17 19	0				0	0 
3 1 1 1 1		20 A 20 A	9 11 13 15 17 19	0					
3 1 1 1 1		20 A 20 A	11 13 15 17 19						
1 1 1		20 A	13 15 17 19			0			
1 1 1		20 A	15 17 19			0		0	
1 1 1		20 A	17 19	0		0		0	
1 1 1		-	19	0				0	
1 1 1		-	-	0					
1 1	-	20 A	21						
1						0			
			23						
1			25			-			
			27					_	
1			29						
1			31						
1			33						
1			35						
1			37						
1			39						
1			41						
					0 VA		VA		VA
					0 A	0	) A	0	A
" IN ND	IDIC	ATES	PROVI (ISTIN)	DE LOO G CIRC	CKABLE H/ UIT	ASP			
	(		CTED	LOAD	DEM	AND FAC	TOR	ESTIMAT	ED DE
	-								
	-								
							1		
	" IN ND	NDICA	NDICATES EX	NDICATES EXISTIN	" INDICATES PROVIDE LOC	0 A " INDICATES PROVIDE LOCKABLE H, NDICATES EXISTING CIRCUIT	0 A C	0 A 0 A	0 A 0 A 0 " INDICATES PROVIDE LOCKABLE HASP NDICATES EXISTING CIRCUIT

	M MAIN	AIN: NS F	S T RAT	ING: EXISTING YPE: MCB ING: 200 A ING: 200 A
CKT NO	AMP		Р	CIRCUIT DESCRIPTION
2				
4	20 A		3	(E) XFMR T1
6				
8			1	SPACE
10			1	SPACE
12			1	SPACE
14			1	SPACE
16			1	SPACE
18			1	SPACE
20			1	SPACE
22			1	SPACE
24			1	SPACE
26			1	SPACE
28			1	SPACE
30			1	SPACE
32			1	SPACE
34			1	SPACE
36			1	SPACE
38			1	SPACE
40			1	SPACE
42			1	SPACE
			•	

EMAND	PANE	L TOTALS
	TOTAL CONN. LOAD:	0 VA
	TOTAL EST. DEMAND:	0 VA
	TOTAL CONN.:	0 A
	TOTAL EST. DEMAND:	0 A

	MAINS MAINS F	S T RAT	ING: EXISTING YPE: MCB ING: 225 A ING: 225 A
CKT NO	AMP	Ρ	CIRCUIT DESCRIPTION
2	20 A	1	FURNITURE FEED
4	20 A	1	FURNITURE FEED
6	20 A	1	FURNITURE FEED
8	20 A	1	FURNITURE FEED
10	20 A	1	FURNITURE FEED
12	20 A	1	FURNITURE FEED
14	20 A	1	FURNITURE FEED
 16	20 A	1	FURNITURE FEED
18	20 A	1	FURNITURE FEED
20	20 A	1	FURNITURE FEED
 22	20 A	1	FURNITURE FEED
24	20 A	1	FURNITURE FEED
26	20 A	1	FURNITURE FEED
28	20 A	1	FURNITURE FEED
30	20 A	1	FURNITURE FEED
32	20 A	1	FURNITURE FEED
 34	20 A	1	FURNITURE FEED
36	20 A	1	FURNITURE FEED
38	20 A	1	FURNITURE FEED
40	20 A	1	FURNITURE FEED
42	20 A	1	FURNITURE FEED

MAND	PANEI	L TOTALS
<b>\</b>		
	TOTAL CONN. LOAD:	13,680 VA
	TOTAL EST. DEMAND:	11,840 VA
	TOTAL CONN.:	38 A
	TOTAL EST. DEMAND:	33 A

BRANCH PANEL: EP-1		BRANCH PANEL: H1	All report notes an ODMARC		
DRAINCH PANEL. EF-I         LOCATION: ELECTRIC 003a       VOLTAGE: 120/208 WYE         SUPPLY FROM:       PHASES: 3	SCCR RATING: EXISTING MAINS TYPE: MCB	DRAINCH PANEL. HT         LOCATION: ELECTRIC 003a       VOLTAGE: 480/277 WYE       SCCR RATING: EXISTING         SUPPLY FROM:       PHASES: 3       MAINS TYPE: MCB	OPN Arch the prope shall reta rights, inc		
MOUNTING:     SURFACE     WIRES:     4       ENCLOSURE:     TYPE 1	MAINS RATING: 225 A MCB RATING: 225 A	MOUNTING: SURFACEWIRES: 4MAINS RATING: 200 AENCLOSURE: TYPE 1MCB RATING: 200 A	© 2024 O 		
NOTES:		NOTES:	STATE ADMIN 1305 E DES M		
CIRCUIT DESCRIPTION P AMP NO A B	C CKT NO AMP P CIRCUIT DESCRIPTION	CIRCUIT DESCRIPTION       P       CKT       AMP       B       CKT       NO       AMP       P       CIRCUIT DESCRIPTION	Project		
(E) E.F. MAIL ROOM       1        20 A       1       0       0           (E) E.F. MAIL ROOM       1        20 A       3        0       0       0         (E) E.F. MAIL ROOM       1        20 A       5        0       0       0	2         20 A          1         (E) Y4V1 ROOFTOP UNIT           4         20 A          1         (E) Y4V1 ROOFTOP UNIT           0         6         20 A          1         (E) Y4V1 ROOFTOP UNIT	(E) EWH-1       1       0       0       0       2       2         (E) EWH-1       3        20 A       0       0       4       20 A       4         5        0       0       0       6       6       6       6       6	9411.0 WORK 6200 P.		
(E) VAV S. CORRIDOR       1        20 A       7       0       0           (E) VAV S. CORRIDOR       1        20 A       9       0       0       0         (E) VAV S. CORRIDOR       1        20 A       9       0       0       0	8         20 A          1         (E) AIR CURTAIN MAIL ROOM           10         20 A          1         (E) AIR CURTAIN MAIL ROOM           0         0         12         20 A          1         (E) AIR CURTAIN MAIL ROOM	(E) RTU-1       7       0        0        1       SPACE         11        0        10        1       SPACE	DES MO Constructio		
(E) VAV S. CORRIDOR       1        20 A       11       (1) <td>0         0         12         20 A          1         (E) AIR CURTAIN MAIL ROOM           1         20 A          1         (E) Y4C1 ROOFTOP UNIT           16         20 A          1         (E) Y4C1 ROOFTOP UNIT</td> <td>Image: Mark Series of the s</td> <td>DCI GF 220 SE DES MO</td>	0         0         12         20 A          1         (E) AIR CURTAIN MAIL ROOM           1         20 A          1         (E) Y4C1 ROOFTOP UNIT           16         20 A          1         (E) Y4C1 ROOFTOP UNIT	Image: Mark Series of the s	DCI GF 220 SE DES MO		
(E) TRASH COMPACTOR       1        20 A       17       0       0       0         (E) MEZZANINE HEATER       1        20 A       19       0       0       0       0         (E) MEZZANINE HEATER       1        20 A       21       0       0       0	0         0         18         20 A          1         (E) Y4C1 ROOFTOP UNIT           20         20 A          1         (E) DOCK LIGHTING           22         22         22         23         24	Image: Marking Constraints of the symbol	P. 515- Civil Engine		
(E) MEZZANINE HEATER       1        20 A       23         0         1        20 A       25         0         2       27       27         0	24     26	SPACE       1        23       I       I        23       I       I       I       SPACE         SPACE       1        25        I       I       I       SPACE       I       SPACE	CIVIL E CONSU 2400 8 DES MO		
29     31     1     1	28     30       32     32	SPACE127CI-I-I28I-ISPACESPACE129IIIIIISPACESPACE1IIIIIIIIIIISPACE1III	P. 515-2 Structural E		
Image: Constraint of the second se	34     34       36     38	SPACE133341SPACESPACE1351361SPACESPACE137381SPACE	RAKER 4717 GI DES MC P. 515-2		
(E) TRANSFORMER LP-1       1        20 A       39       0       0       0         (E) TRANSFORMER LP-1       1        20 A       41       0       0       0	40         40           42         42	SPACE       1        39          40        1       SPACE         SPACE       1        41        41         42        1       SPACE $(1)$ 41 $(1)$ <td>P. 515-2 Mechanical KCL EN</td>	P. 515-2 Mechanical KCL EN		
0 A 0 A	0 VA 0 A	OA OA OA LEGEND:	300 4TH WEST D P. 515-		
"G" INDICATES GFCI TYPE BREAKER, "L" INDICATES PROVIDE LOCKABLE HASP         "F" INDICATES RED LOCK-ON HASP, "E" INDICATES EXISTING CIRCUIT         LOAD CLASSIFICATION       CONNECTED LOAD       DEMAND FACTOR       ESTING	MATED DEMAND PANEL TOTALS	"G" INDICATES GFCI TYPE BREAKER, "L" INDICATES PROVIDE LOCKABLE HASP         "F" INDICATES RED LOCK-ON HASP, "E" INDICATES EXISTING CIRCUIT         LOAD CLASSIFICATION       CONNECTED LOAD       DEMAND FACTOR       ESTIMATED DEMAND       PANEL TOTALS	Electrical Er KCL EN		
	TOTAL CONN. LOAD:         0 VA           TOTAL EST. DEMAND:         0 VA           TOTAL CONN.:         0 A	Image: Constant of the symbolImage: Constant of the s	300 4TH WEST D P. 515-7		
	TOTAL EST. DEMAND: 0 A	Image: Contract contract of the contract of t			
NOTES:		NOTES:			
BRANCH PANEL: L1		BRANCH PANEL: LP-1			
LOCATION: ELECTRIC 003a VOLTAGE: 120/208 WYE	SCCR RATING: EXISTING				
SUPPLY FROM: PHASES: 3	MAINS TYPE: MLO	LOCATION: ELECTRIC 003aVOLTAGE: 120/208 WYESCCR RATING: EXISTINGSUPPLY FROM:PHASES: 3MAINS TYPE: MCB			
SUPPLY FROM:PHASES: 3MOUNTING: SURFACEWIRES: 4	MAINS TYPE: MLO MAINS RATING: 225 A	SUPPLY FROM:PHASES: 3MAINS TYPE: MCBMOUNTING: SURFACEWIRES: 4MAINS RATING: 225 A			
SUPPLY FROM:PHASES: 3MOUNTING: SURFACEWIRES: 4ENCLOSURE: TYPE 1	MAINS TYPE: MLO MAINS RATING: 225 A	SUPPLY FROM:       FACS       FHASES: 3       MAINS TYPE: MCB         MOUNTING:       SUFACE       WIRES: 4       MAINS RATING:       225 A         BCCOSURE:       TYPE I       TOTES:       TOTES:       TOTES:       TOTES:         Image: Supply from the feed in the fee			
SUPPLY FROM:       PHASES: 3         MOUNTING: SURFACE       WIRES: 4         ENCLOSURE: TYPE 1         NOTES:         CIRCUIT DESCRIPTION       P       AMP       A       B       C	MAINS TYPE: MLO         MAINS RATING: 225 A         MCB RATING: 225 A         C       CKT         AMP       P         CIRCUIT DESCRIPTION	SUPPLY FROM: MOUNTING: SURFACE ENCLOSURE: TYPE:PHASES: 3MAINS TYPE: MCBNOTES:NOTES:NOTES:NOTES:CIRCUIT DESCRIPTIONPAMPBCKNAMPPCIRCUIT DESCRIPTIONPAMPBCKNAMPPCIRCUIT DESCRIPTION			
SUPPLY FROM:       PHASES: 3         MOUNTING: SURFACE       WIRES: 4         ENCLOSURE: TYPE 1         NOTES:         Image: Circuit description       P       AMP       CKT       A       B         (E) RECEPTACLE       1       -       20 A       1       0       1200       0       0         (E) RECEPTACLE       1       -       20 A       3       0       0       0         (E) RECEPTACLE       1       -       20 A       3       0       0       0         (E) RECEPTACLE       1       -       20 A       3       0       0       0         (E) RECEPTACLE       1       -       20 A       7       0       2306       0         (E) RECEPTACLE       1       -       20 A       7       0       2306       0         (E) RECEPTACLE       1       -       20 A       9       0       2306       0         (E) RECEPTACLE       1       -       20 A       11       0       0       0	KAINS TYPE: MLO         MAINS RATING: 225 A         MCB RATING: 225 A         KC       KAIP       P       CIRCUIT DESCRIPTION         2       20 A       G       1       FRIDGE (GFCI BREAKER)         2       20 A       G       1       FRIDGE (GFCI BREAKER)         1200       6       20 A       G       1       FRIDGE (GFCI BREAKER)         1200       6       20 A       G       1       FRIDGE (GFCI BREAKER)         1200       6       20 A       G       1       FRIDGE (GFCI BREAKER)         1200       6       20 A       G       1       FRIDGE (GFCI BREAKER)         1200       6       20 A       G       1       FRIDGE (GFCI BREAKER)         1200       6       20 A       G       1       FRIDGE (GFCI BREAKER)         1200       6       20 A       G       1       FRIDGE (GFCI BREAKER)         1200       70       70       70       70       70         1200       70       70       70       70       70	SUPPLY FROM:       SUPPLY FROM: <td< td=""><td></td></td<>			
SUPPLY FROM:       PHASES: 3         MOUNTING: SURFACE       WIRES: 4         ENCLOSURE: TYPE 1         NOTES:         Image: Control of the second stress of the second st	KAINS TYPE: MLO:         MAINS RATING: 225 A         MCB RATING: 225 A         Kor Robins       P         CIRCUIT DESCRIPTION         Image: Problem Stress Stres	SUPPLY FROM:       SUPFLYE       PHASES ?       SUPFLYE       MUNTING: SUFFACE       WIRES ?       SUPFLYE       MUNTING: SUFFACE       WIRES ?       MUNTING: SUFFACE       WIRES ?       SUPFLYE       MUNTING: SUFFACE       MUNTING: SUFFACE       MUNTING: SUFFACE       WIRES ?       SUPFLYE       MUNTING: SUFFACE			
PHASES: 3         MOUNTING: SURFACE       WIRES: 4         ENCLOSURE: TYPE 1         NOTES:         CIRCUIT DESCRIPTION       P       AMP       CKT       A       B       C         (E) RECEPTACLE       1       -       20 A       1       0       1200       C       C       C         (E) RECEPTACLE       1       -       20 A       3       C       0       0       C         (E) RECEPTACLE       1       -       20 A       3       C       0       0       C         (E) RECEPTACLE       1       -       20 A       3       C       0       0       C         (E) RECEPTACLE       1       -       20 A       3       C       0       0       C         (E) RECEPTACLE       1       -       20 A       7       0       2306       C       C       0         (E) RECEPTACLE       1       -       20 A       11       C       0       2306       C       C       0         (E) RECEPTACLE       1       -       20 A       15       C       0       2306       C       C </td <td>KAINS TYPE:       MLO:         MAINS RATING:       225 A         KBINS RATING:       201 (E)         KBINS RATING:       21 (E)         KBINS RA</td> <td>SUPLY FROM:       SUPLY FROM:</td> <td></td>	KAINS TYPE:       MLO:         MAINS RATING:       225 A         KBINS RATING:       201 (E)         KBINS RATING:       21 (E)         KBINS RA	SUPLY FROM:			
PHASES: 3         MOUNTING: SURFACE       WIRES: 4         ENCLOSURE: TYPE 1         NOTES:         CIRCUIT DESCRIPTION       P       AMP       CKT       A       B       C         (E) RECEPTACLE       1       -       20.4       1       0       1200       0       0       0         (E) RECEPTACLE       1       -       20.4       1       0       1200       0       0       0         (E) RECEPTACLE       1       -       20.4       3       0 <td< td=""><td>MAINS TYPE:       MLO:         MAINS RATING:       225 A         MCB RATING:       2304 G       G       1       FRIDEG (GFCI BREAKER)         MCB RATING:       1       FRIDEG (GFCI BREAKER)       1       FRID-2         MCB RATING:       3       RTU-2       3       RTU-2         MCB RATING:       1       RECEPTACLE       1         MCB RATING:       1       RECEPTACLE       1         MCB RATING:       1       RECEPTACLE       2         MCB RATING:       1       RECEPTACLE       2         MCB RATING:       1       RECEPTACLE       2         MCB RATING:       1       RECEPTACLE       2</td><td>SUPPL Y FORM:       SUPPL Y FORM:&lt;</td><td></td></td<>	MAINS TYPE:       MLO:         MAINS RATING:       225 A         MCB RATING:       2304 G       G       1       FRIDEG (GFCI BREAKER)         MCB RATING:       1       FRIDEG (GFCI BREAKER)       1       FRID-2         MCB RATING:       3       RTU-2       3       RTU-2         MCB RATING:       1       RECEPTACLE       1         MCB RATING:       1       RECEPTACLE       1         MCB RATING:       1       RECEPTACLE       2	SUPPL Y FORM:       SUPPL Y FORM:<			
SUPPLY FROM:       PHASES:       B         MOUNTING:       SURFACE       WIRES:       4         BCLOSURE:       TYPE I       WIRES:       4         NOTES:       CRCUIT DESCRIPTION       P       AMP       CKT       A       B       C         (E) RECEPTACLE       1       -       20 A       1       0       1200       1       0         (E) RECEPTACLE       1       -       20 A       3       -       0       0       0         (E) RECEPTACLE       1       -       20 A       3       -       0       0       0         (E) RECEPTACLE       1       -       20 A       3       -       0       0       0         (E) RECEPTACLE       1       -       20 A       7       0       2306       0       0         (E) RECEPTACLE       1       -       20 A       11       0       2306       0       0         (E) RECEPTACLE       1       -       20 A       13       0       2306       0       0         (E) RECEPTACLE       1       -       20 A       13       0       2306       0       0         (E) RECEPTACLE	Kains Type:       MLO:         MAINS RATING:       225 A         C       Kains Rating:       P       Clacuit Description         C       Kains Rating:       P       Clacuit Description         I       FRIDGE (GFCI BREAKER)       I       FRIDGE (GFCI BREAKER)         I       Clacuit Description       RTU-2         I       FRIDGE (GFCI BREAKER)       RTU-2         I       FRIDGE (GFCI BREAKER)       RTU-2         I       RTU-2       RTU-2         I       RTU-2       RTU-2         I       RECEPTACLE       RTU-1         I       RECEPTACLE       I       RECEPTACLE         I       DOOR OPERATOR       I	SUPPLY FROM:       S <t< td=""><td>Key Plan</td></t<>	Key Plan		
SUPPLY FROM:       PHASES:       HURES:	Kains Type:       MLO:         MAINS RATING:       225 A         MCB       Ratins:       225 A         MCB       Ratins:       225 A         Kains:       Kains:       State         Kains:       Kains:       State         Kains:       Kains:       State       State         Kains:       Kains:       Kains:       Kains:       Kains:         Kains:       Kains:       Kains:       Kains:       Kains:         Kains:       Kains:       Kains:       Kains:       Kains:         Kains:       Kains:       Kains:       Kains:       Kains:       Kains:         Kains:       Kains:       Kains:       Kains:       Kains:       Kains:         Kains:       Kains:       Kains:       Kains:       Kains:       Kains:       Kains:         Kains:       Kains:       Kains:       Kains:	SUPLY FROM:       SUPLY SEC:       SUPLY SEC: </td <td>Key Plan</td>	Key Plan		
PHASES: 3         MOUNTING: SURFACE         WIRES: 4         ENCLOSURE: TYPE 1         NOTES:         CIRCUIT DESCRIPTION       P       AMP       KT       A       B       0       0       0         (E) RECEPTACLE       1       - 20 A       1       0       1200       0       0       0         (E) RECEPTACLE       1       - 20 A       3       0       0       0       0         (E) RECEPTACLE       1       - 20 A       7       0       2306       0       0         (E) RECEPTACLE       1       - 20 A       7       0       2306       0       0         (E) RECEPTACLE       1       - 20 A       7       0       2306       0       0         (E) RECEPTACLE       1       - 20 A       11       0       2306       0       0         (E) RECEPTACLE       1       - 20 A       13       0       2306       0       0         (E) RECEPTACLE       1       - 20 A       17       0       360       0       0         (E) RECEPTACLE       1       - 20 A       17       0	MAINS TYPE: MLG         MAINS RATING: 225 A         C       CKT       P       CIRCUIT DESCRIPTION         C       CKT       A       O         2       20 A       G       1       FRIDEE (GFCI BREAKER)         10       A       CIRCUIT DESCRIPTION         10       C         10       CIRCUIT DESCRIPTION         10       FRIDE (GFCI BREAKER)         1200       6       2       4       3       RTU-2         2306       1       RECEPTACLE         2306       1       RECEPTACLE       1       RECEPTACLE         360       20       1       1       RECEPTACLE       1         360       20       1       1       DOOR OPERATOR       1 <t< td=""><td>SUPELY FROM:       Supelines       Supelines</td></t<> <td></td>	SUPELY FROM:       Supelines			
SUPPLY FROM:       PHASES:       SURFACE         MOUNTING: SURFACE       WIRES:       WIRES:         ENCLOSURE: TYPE 1       NOTES:       WIRES:         NOTES:       CKT       AMP       K       A       B       NO         (E) RECEPTACLE       1       - 20A       1       0       1200       0       100         (E) RECEPTACLE       1       - 20A       3       -       0       0       0         (E) RECEPTACLE       1       - 20A       3       -       0       0       0         (E) RECEPTACLE       1       - 20A       3       -       0       206       0         (E) RECEPTACLE       1       - 20A       7       0       2306       0       0         (E) RECEPTACLE       1       - 20A       11       0       2306       0       0         (E) RECEPTACLE       1       - 20A       13       0       2306       0       0         (E) RECEPTACLE       1       - 20A       15       -       0       2306       0         (E) RECEPTACLE       1       - 20A       15       -       0       2306       0       0	MAINS TYPE: MLG         MAINS RATING: 225 A         C       CKT       P       CIRCUIT DESCRIPTION         I       CIRCUIT DESCRIPTION         I       P       CIRCUIT DESCRIPTION         I       CIRCUIT DESCRIPTION         I       P         I       P         I       P         I       P         I       P         I       P         I       P         I       P         I       P         I       P         I <t< td=""><td>Support From:         Precise         Precise</td><td></td></t<>	Support From:         Precise			
SUPPLY FROM:       PHASES:       PHASES:       WIRES:       WIRES:       WIRES:       MURES:       MURES	MAINS TYPE       MAINS RATING:       25 A         MCB RATING:       26 A       1       FRIDECEPTACLE         MCB RATING:       3       RTU-1         MCB RATING:       3       RECEPTACLE         MCB RATING:       3       RECEPTACLE         MCB RATING:       3       RECEPTACLE         MCB RATING:       4       MCDOR OPERATOR         MCB RATING:       4       MCDOR OPERATOR         MCB RATING:       4       MCDOR OPERATOR	UPUPL TROM:         UPUPL SIG:         UPUPL SIG:        UPUPL SIG:        UPUPL SI			
SUPPLY FROM: ENCLOSURE: SURFACE ENCLOSURE: TYPE 1       PHASES: 3         WIRES: 4         NOTES:         CIRCUIT DESCRIPTION       P       AMP       CKT       B         (E) RECEPTACLE       1       - 20A       1       0       10         (E) RECEPTACLE       1       - 20A       1       0       0         (E) RECEPTACLE       1       - 20A       1       0       200         (E) RECEPTACLE       1       - 20A       7       0       200         (E) RECEPTACLE       1       - 20A       7       0       200         (E) RECEPTACLE       1       - 20A       7       0       200         (E) RECEPTACLE       1       - 20A       11       0       200         (E) RECEPTACLE       1       20A       13 <t< td=""><td>Kains Rating 225 A         KB Rating 225 A         KB Rating 225 A         KB Rating 255 A         KB Rating 25</td><td>Super version Practice is the state is</td><td></td></t<>	Kains Rating 225 A         KB Rating 225 A         KB Rating 225 A         KB Rating 255 A         KB Rating 25	Super version Practice is the state is			
PHASES : WRES: 4           MOUNTING: SURFACE ENCLOSURE: TYPE 1           WRES: 4           NOTES:           CIRCUIT DESCRIPTION         P         AMP         CKT         B           CIRCUIT DESCRIPTION         P         AMP         CKT         B           CIRCUIT DESCRIPTION         P         AMP         CKT         C           CIRCUIT DESCRIPTION         P         AMP         CKT           CIRCUETACLE         1         0           CIRCUETACLE         AMP         CIRCUETACLE         CIRCUETACLE	MANS TYPE:         MANS RATING:         225 A           C         KN         AMP         P         CIRCUI DESCRIPTION           2         20 A         G         1         FRIDGE (GFCI BREAKER)           4         20 A         G         1         FRIDGE (GFCI BREAKER)           4         20 A         G         1         FRIDGE (GFCI BREAKER)           4         20 A         G         1         FRIDGE (GFCI BREAKER)           2006         12         A         G         1           2014         10         A         A           2015         12         A         A           2016         12         A         A           2017         1         A         A           2018         20 A	Supply form:       Funds:			
SUPPLY FROM: MOUNTING: SURFACE ENCLOSURE: TYPE 1         PHASES: 3 WIRES: 4           NOTES:           CIRCUIT DESCRIPTION         P         AMP         CKT         B           CIRCUIT DESCRIPTION         P         AMP         CKT         B           CIRCUIT DESCRIPTION         P         AMP         CKT         B         B           CIRCUIT DESCRIPTION         P         AMP         CKT         B         B           CIRCUIT DESCRIPTIOLE         1         - 20A         1         0         0           CIRCUIT DESCRIPTIOLE         1         - 20A         1         0         2306         0           CIRCUIT DESCRIPTIOLE         1         - 20A         10         20           CIRCUIT DESCRIPTIOLE         1         - 20A         10         20           CIRCUETTACLE         1         20         20	MAINS TYPE: McB         GENER STINE: 225 A         C       KN       C         C       KN       C         C       KN       C       KN       C       KN       C       KN       C       KN       C       C       C       C       C       KN       C       C       KN       C       C       KN       C <th c<="" colspan="2" t<="" td=""><td>Super version Practice is the state is</td><td></td></th>	<td>Super version Practice is the state is</td> <td></td>		Super version Practice is the state is	
SUPPLY FROM:         EVANSE:         PHASES:         WIRES:         WIRES: <th< td=""><td>Mains Extres:         22:83           C         CK         MP         P         Circuit Description           2         20         0         0         1         FRIDGE (GFCI BREAKER)           4         20         0         1         FRIDGE (GFCI BREAKER)           100         6         20         0         1         FRIDGE (GFCI BREAKER)           2006         10         30         3         RTU-2           2006         10         30         3         RTU-1           10         20.4         1         RECEPTACLE           2006         22         20.4         1         RECEPTACLE           2006         24         20.4         1         RECEPTACLE           201         20.4         1         RECEPTACLE           202         20.4         1         RECEPTACLE           203         20.4         1         RECEPTACLE           203         20.4         1         RECEPTACLE           203         20.4         1         RECEPTACLE           204         20.4         2         2           204         2         2         2         2</td><td>Supply form:       Funds:       Funds:</td><td>Key/Jan</td></th<>	Mains Extres:         22:83           C         CK         MP         P         Circuit Description           2         20         0         0         1         FRIDGE (GFCI BREAKER)           4         20         0         1         FRIDGE (GFCI BREAKER)           100         6         20         0         1         FRIDGE (GFCI BREAKER)           2006         10         30         3         RTU-2           2006         10         30         3         RTU-1           10         20.4         1         RECEPTACLE           2006         22         20.4         1         RECEPTACLE           2006         24         20.4         1         RECEPTACLE           201         20.4         1         RECEPTACLE           202         20.4         1         RECEPTACLE           203         20.4         1         RECEPTACLE           203         20.4         1         RECEPTACLE           203         20.4         1         RECEPTACLE           204         20.4         2         2           204         2         2         2         2	Supply form:       Funds:	Key/Jan		
SUPPLY FROM:         EMASEA:         PHASES:         MIRES:         MIRES: <th< td=""><td>Mains Extres:         22:83           C         CK         MP         P         Circuit Description           2         20 A         6         1         FRIOGE (GFCI BREAKER)           4         20 A         6         1         FRIOGE (GFCI BREAKER)           120         6         20 A         6         1         FRIOGE (GFCI BREAKER)           120         6         20 A         6         1         FRIOGE (GFCI BREAKER)           120         6         20 A         6         1         FRIOGE (GFCI BREAKER)           120         6         20 A         1         FRIOGE (GFCI BREAKER)           140         20 A         1         RECEPTACLE           141         20 A         1         RECEPTACLE           142         20 A         1         RECEPTACLE           152         20 A         1         RECEPTACLE           152         20 A         1         DOOR OPERATOR           152         20 A         1         DOOR OPERATOR           164        </td><td>Supply form:       Funds:       Funds:</td><td></td></th<>	Mains Extres:         22:83           C         CK         MP         P         Circuit Description           2         20 A         6         1         FRIOGE (GFCI BREAKER)           4         20 A         6         1         FRIOGE (GFCI BREAKER)           120         6         20 A         6         1         FRIOGE (GFCI BREAKER)           120         6         20 A         6         1         FRIOGE (GFCI BREAKER)           120         6         20 A         6         1         FRIOGE (GFCI BREAKER)           120         6         20 A         1         FRIOGE (GFCI BREAKER)           140         20 A         1         RECEPTACLE           141         20 A         1         RECEPTACLE           142         20 A         1         RECEPTACLE           152         20 A         1         RECEPTACLE           152         20 A         1         DOOR OPERATOR           152         20 A         1         DOOR OPERATOR           164	Supply form:       Funds:			
SUPPLY FROM: BNOLNTING: SURFACE         PHASES: WIRES: 3           NOTES:         INCLOSURE: TYPE 1           NOTES:           CIRCUIT DESCRIPTION         P         AMP         NO         A         B         A           (IFRECEPTACLE         1         - 20A         1         0         1200         A         0         1         0         1200         A         0         1         0         1200         A         0         1         0         0         1         0         0         1 <td><text>         Mains Ratifies       225         Circuit description         2       20       0       1       Pridoe (of c) BREAKER)         4       20 A       0       1       Pridoe (of c) BREAKER)         10       20 A       0       1       Pridoe (of c) BREAKER)         200       12       0       Rtu-2         200       12       0       Rtu-2         200       12       0       Rtu-2         200       13       Rtu-1       1         200       14       Rtu-1       1         200       1       Rtu-1       1         201       200       1       Rtu-1         122       200       1       Rtu-1         132       200       1       Rtu-1         14       DOOR OPERATOR       1       1         152       20       1       1       2         14</text></td> <td>Supply form:       Funds:       Funds:</td> <td></td>	<text>         Mains Ratifies       225         Circuit description         2       20       0       1       Pridoe (of c) BREAKER)         4       20 A       0       1       Pridoe (of c) BREAKER)         10       20 A       0       1       Pridoe (of c) BREAKER)         200       12       0       Rtu-2         200       12       0       Rtu-2         200       12       0       Rtu-2         200       13       Rtu-1       1         200       14       Rtu-1       1         200       1       Rtu-1       1         201       200       1       Rtu-1         122       200       1       Rtu-1         132       200       1       Rtu-1         14       DOOR OPERATOR       1       1         152       20       1       1       2         14</text>	Supply form:       Funds:			
SUPPLY FROM: SURFACE PHASES: 3 MOUNTING: SURFACE WIRES: 4 ENCLOSURE: TYPE 1 NOTES:	Mains Ratics:         225           C         Kr         Ratics:         225           C         Kr         Ratics:         225           C         Kr         Ratics:         225           C         Kr         Ratics:         225           100         23         6         1         Pridec (sFc) BREAKER)           120         6         1         Fridec (sFc) BREAKER)           2006         12         7         1         Ritus:           2006         12         20         3         Ritu:           2006         12         20         3         Ritu:           2006         12         20         4         1         Receptacle           2006         13         1         Receptacle           2007         20         1         Receptacle           2008         20         1         Receptacle           2008         20         1         Receptacle           2008         20         20         1         Receptacle           2008         20         20         20         20           2008         20         20         20         20<	Supply form:       Funds:			
SUPPLY FROM: ENCLOSURE: SURFACE ENCLOSURE: TYPE 1         PHASES: 3 WRES: 4           NOTES:         VINES: 4           CIRCUIT DESCRIPTION         P         AMP         CMT         A         B         -           0         GIRCUIT DESCRIPTION         1         - 20A         3         -         100         0	Prime TYE:     Prime TYE:       C     NC     Prime TYE:       D     NC       D     NC       D     NC       D     NC        D     NC	Supply form:       Funds:			
SUPPLY FROM: ENCLOSURE: SURFACE ENCLOSURE: TYPE 1         PHASES: 3 WRES: 4           NOTES:         VINES: 4           CIRCUIT DESCRIPTION         P         AMP         CMT         A         B         -           0         GIRCUIT DESCRIPTION         1         - 20A         3         -         100         0	MAINS TYPE:       MAINS RATINS:       ZE RATINS	Supply form:       Supply form: <t< td=""><td>Revision d</td></t<>	Revision d		
SUPPLY FROM: ENCLOSURE: SURFACE ENCLOSURE: TYPE 1         PHASES: 3 WRES: 4           NOTES:         VINES: 4           CIRCUIT DESCRIPTION         P         AMP         CMT         A         B         -           0         GIRCUIT DESCRIPTION         1         - 20A         3         -         100         0	Main B TYPE:       Main B RATING:       ZEG RATING: <thzeg rating:<="" t<="" td=""><td>Supply form:       Supply form:       <t< td=""><td></td></t<></td></thzeg>	Supply form:       Supply form: <t< td=""><td></td></t<>			