# THE DOCK AT BRADFORD BEACH

2400 N LINCOLN MEMORIAL DR, MILWAUKEE, WI, 53211

# **OWNER:**

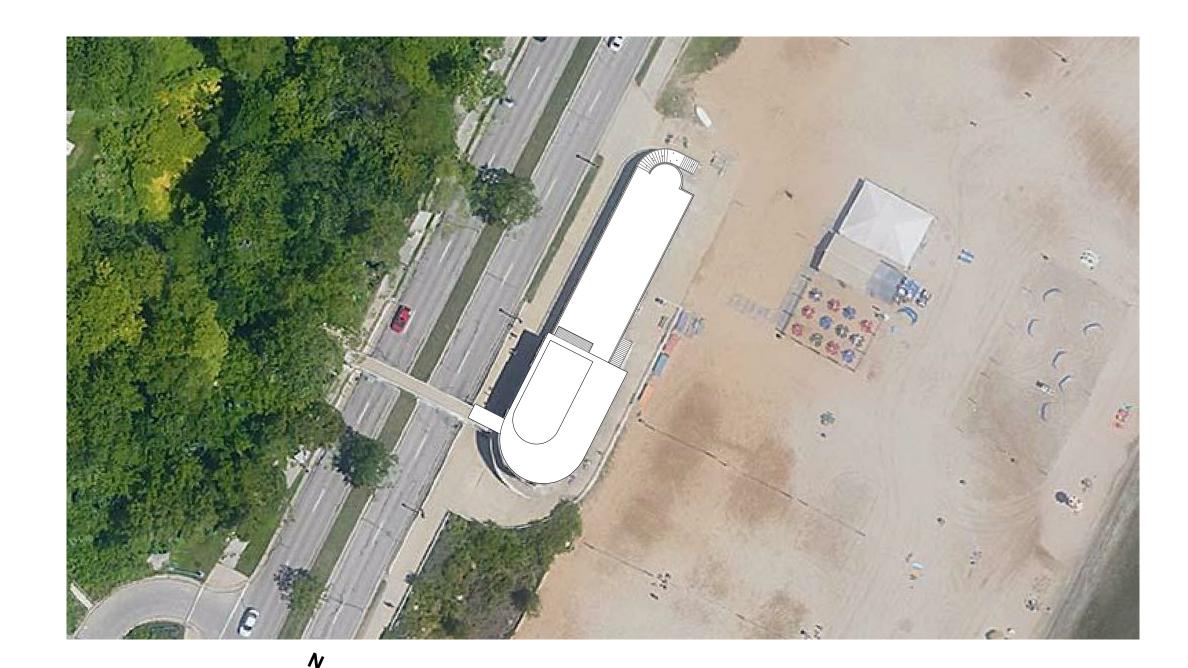
MILWAUKEE COUNTY PARKS 9480 WATERTOWN PLANK RD WAUWATOSA, WI 53226

# **TENANT:**

DOCK-BRADFORD LLC 782 BUSSE HWY PARK RIDGE, IL, 60608

# **ARCHITECT:**

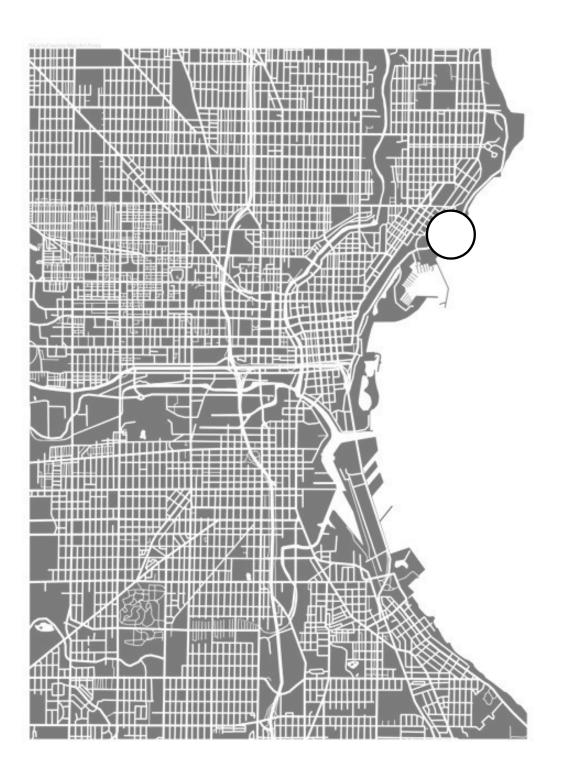
SCALAPLUS INC 1147 W OHIO ST, STE 102 CHICAGO, IL 60642



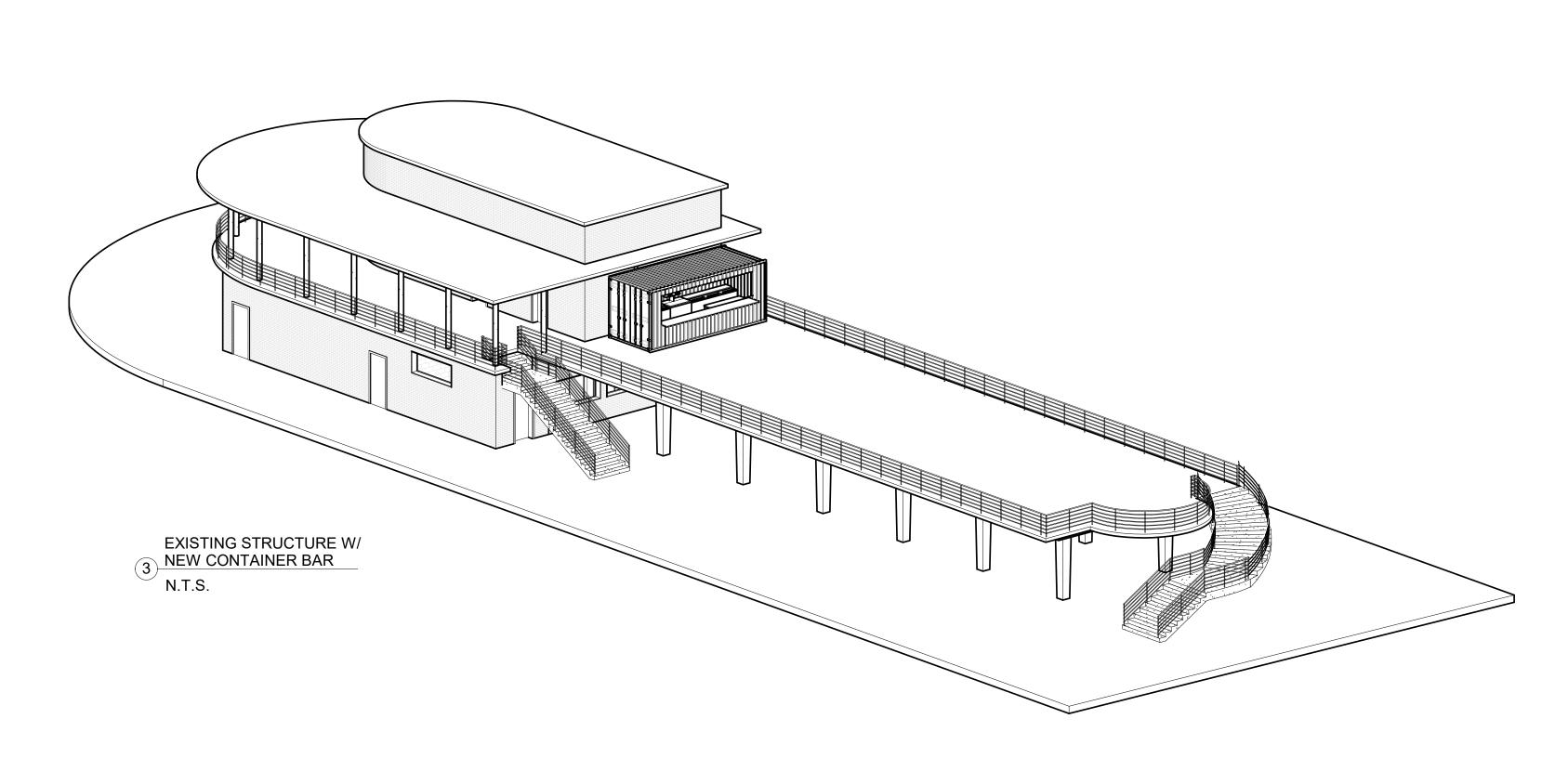
# **SCOPE OF WORK:**

ADDING A NEW CONTAINER BAR UPON THE EXISTING STRUCTURE, WITH MINOR PLUMBING AND ELECTRICAL WORK

SHEET LIST					
SHEET NO. SHEET TITLE					
C 000	COVERSHEET				
A 100 FLOOR PLANS					
E 100	ELECTRICAL NOTES				
E 101 ELECTRICAL FLOOR PLAN AND SCHEDULE					
P 100	GROUND FLOOR PLUMBING				
P 101	SECOND FLOOR PLUMBING				
P 200	PLUMBING RISER DIAGRAMS				



2 LOCATION MAP N.T.S



ARCHITECT: Scalaplus Inc 1147 W Ohio St, Suite 102 Chicago, IL 60642

> I NE DOCK AT BRADFORD BEACH 30 N LINCOLN MEML DR, MILWAUKEE, WI 53;

Revision Schedule

# Description Date

1 ISSUE FOR PERMIT 01/11/2021

GENERAL NOTES:

1. THE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS PREPARED BY THE ARCHITECT FOR THIS PROJECT ARE INSTRUMENTS OF THE ARCHITECTS SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT AND UNLESS OTHERWISE PROVIDED THE ARCHITECT SHALL BE DEEMED THE AUTHOR OF THESE DOCUMENTS AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT. REPRODUCTION IS PROHIBITED.

2. CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY ALL FIGURED DIMENSIONS AND CONDITIONS AT THE JOBSITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING OR FABRICATION OF ANY WORK. NO REFERENCE OR DESIGNATION WITHIN THESE DOCUMENTS SHALL BE CONSIDERED TO ESTABLISH A CONSTRUCTIONTOLERANCE

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3. DO NOT SCALE THESE DRAWINGS. SEAL:



ISSUE DATE:

01/11/2021

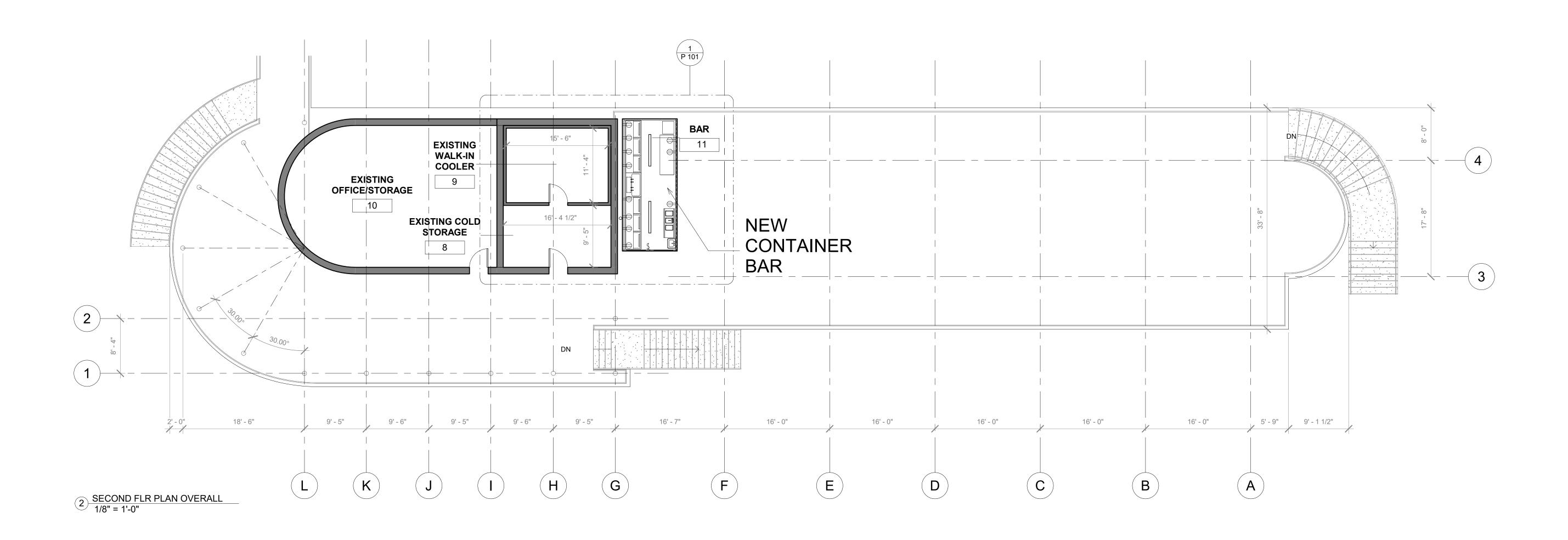
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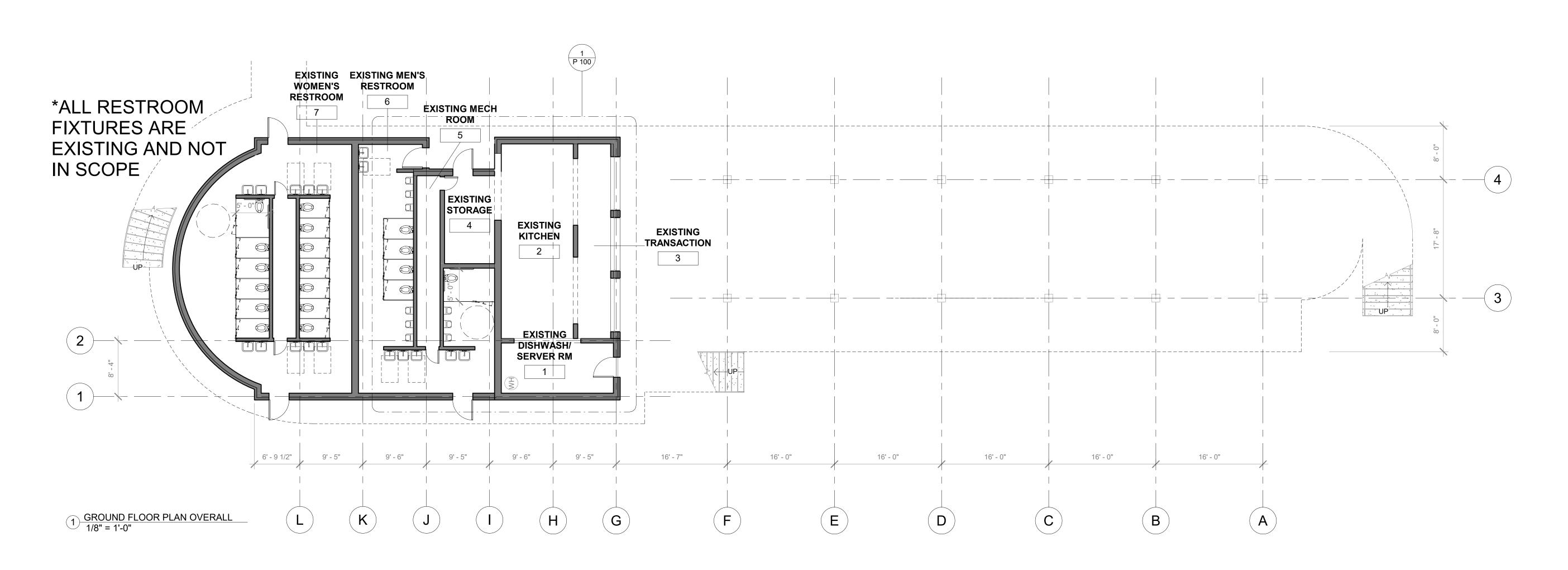
As indicated

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COVERSHEET

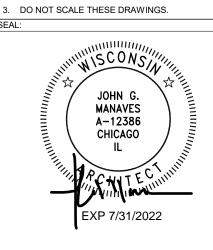
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	Revision Schedule	
#	Description	Date
1	ISSUE FOR PERMIT	01/11/20
GENER	AL NOTES:	I
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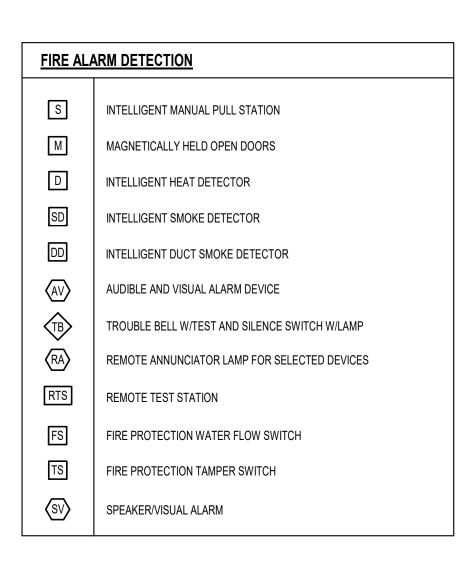
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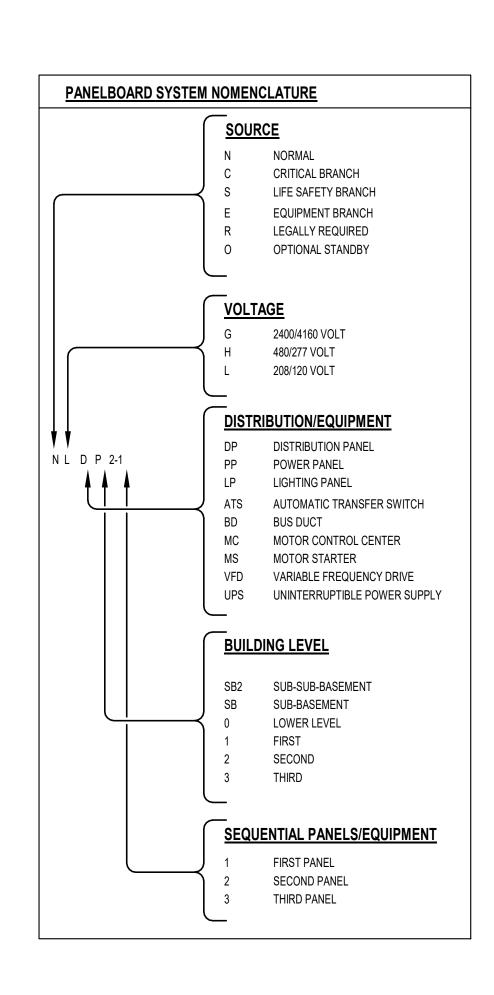
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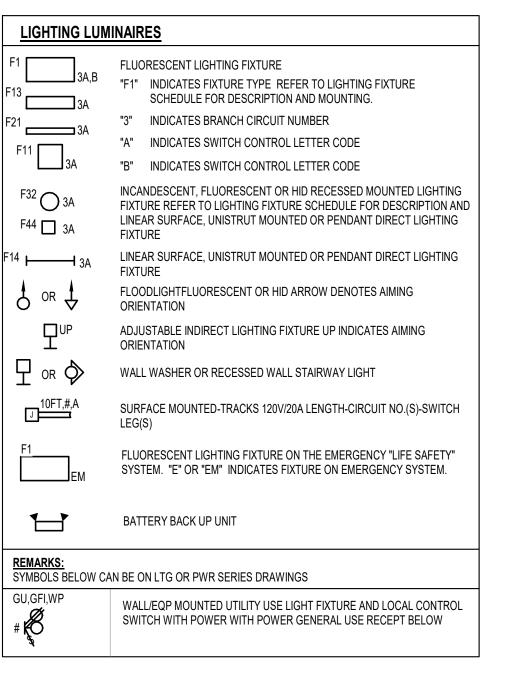
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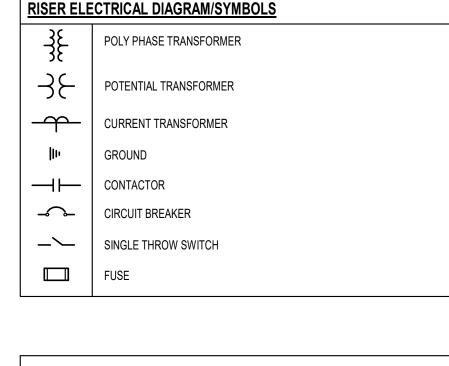
FLOOR PLANS

A 100









ELECT	RICAL OPTIONS AND MOUNTING CODES				
CONNECTION AND ROUTING					
ABBRV	DESCRIPTION				
CDR	CEILING DROP DOWN ON TO RACK				
CPC	CORD AND PLUG CONNECTION POINT				
FSR	FLOOR STUB UP ONTO RACK				
PDC	PULL DOWN DROP CORD				
HWC	HARD WIRE CONNECTION				
FWC	FLEXIBLE WHIP CONNECTION				
DEVICE	OPTIONS				
ABBRV	DESCRIPTION				
TP	TAMPER PROOF TYPE DEVICE AND COVER				
WP	WEATHER PROOF TYPE DEVICE AND COVER				
WG	WIRE GUARD DEVICE AND COVER				
VR	VANDEL RESISTANT DEVICE AND COVER				
AFI	ARC FAULT INTERRUPTION AND PROTECTION				
GFI	GROUND FAULT INTERRUPTION AND PROTECTION				
STI	SHUNT TRIP INTERRUPTION AND PROTECTION				

ARCHITECTURAL EQUIPMENT REFER TO SCHEDULE DWGS

FOR EQUIPMENT SCHEDULES FOR CIRCUIT INFORMATION

PANELBOARDS AND CONTROLLERS					
<u> </u>	SURFACE MOUNTED PANEL - SEE DESCRIPTION FOR TYPE				
	FREE STANDING RACK/CABINET/HOUSING				
CONDUITS I	RACEWAYS WIREWAYS & J-BOXES				
	TWO CHANNEL MULTI-OUTLET RACEWAY FOR SURFACE MOUNT POWER & TECH OPENINGS				
E	CABLE TRAY SEE SPECIFICATION FOR TYPE				
	INDICATES GROUND CONDUCTOR IN CONDUIT				
<del></del>	INDICATES GROUND AND TWO UNGROUNDED CONDUCTORS IN CONDUIT				
<del></del>	INDICATES GROUND AND THREE UNGROUNDED CONDUCTORS IN CONDUIT				
<del></del>	INDICATES GROUND, GROUNDED AND ONE UNGROUNDED CONDUCTORS IN CONDUIT				
<del></del>	INDICATES GROUND, GROUNDED AND TWO UNGROUNDED CONDUCTORS IN CONDUIT				
<b>/</b>	INDICATES GROUND, GROUNDED AND THREE UNGROUNDED CONDUCTORS IN CONDUIT				
<u>(</u> )	JUNCTION BOX				
$\bigcirc$	HINOTION BOY, WALL MOUNTED				

$\left\langle \begin{array}{c} XXX \\ X \end{array} \right\rangle$	MOTOR-LISTED EQUIPMENT REFER TO SCHEDULE DWGS FOR EQUIPMENT SCHEDULES FOR CIRCUIT INFORMATION
X	MOTOR CONNECTION
$\boxtimes$	ENCLOSED MAGNETIC MOTOR STARTER
STR	COMBO MAGNETIC MOTOR STARTER W/ OCPD & LOCK-OUT TAG-OUT DISCONNECT SWITCH
VFC	COMBINATION VARAIBLE FREQUENCY CONTROLLER W/OCPD & LOCK-OUT TAGOUT DISCONNECT SWITCH
	NON-FUSED DISCONNECT SWITCH & LOCK-OUT TAG-OUT
	FUSED DISCONNECT SWITCH & LOCK-OUT TAG-OUT

# <u>LIGHT FIXTURE MOTOR, LISTED-EQUIPMENT, SWITCHES-OPERATORS</u>

3 \$ A LCC K	"D" "2" "3" "3W" "4W"	SWITCH LEG CONTROL LETTER CODE(S) DIMMER 1,000W CONTROL SWITCH DOUBLE-POLE TOGGLE SWITCH TRIPPLE POLE TOGGLE SWITCH THREE WAY SWITCH FOUR WAY SWITCH
	"K" "O" "P" "TM" "T" "WS"	KEY OPERATED SWITCH OCCUPANCY SENSOR SWITCH TOGGLE SWITCH WITH PILOT LIGHT ROTARY SWITCH WITH TIMER CONTROL THERMAL SWITCH WALL SWITCH
	"T/S" "W-STAT" "LV(2)"	TEMP/SENSOR SWITCH WALL LINE VOLTAGE STAT LOW VOLTAGE SWITCHING SYSTEM # QUANTITY OF LV SWITCHE
	"LM" "MC" "LCC"	MASTER SWITCH FOR LOW VOLTAGE SWITCHING SYSTEM MOMENTARY CONTACT SWITCH SWITCH LEG TO LTG CONTACTOR COIL "LCC"
LTG SW	ITCHES SHOV	VN ON LTG PLAN VIEWS, EQP SWITCHES SHOWN ON PWR PLAN VIE
\$	SINGLE POL SUBSCRIPT	E TWO-POSITION 20A TOGGLE SWITCH U.N.O. ON THE DWGS WITH CODE(S)
\$	SINGLE POL SUBSCRIPT	E TWO-POSITION 20A TOGGLE SWITCH U.N.O. ON THE DWGS WITH CODE(S)
000	CEILING MO OTHERWISE	UNTED DUAL TECHNOLOGY 360° OCCUPANCY SENSOR, UNLESS NO E
\$	WALL SWITC	CH MOUNTED PASSIVE INFRARED 180° OCCUPANCY SENSOR
<u>©</u>	4-ZONE PRE	S-SET LIGHTING CONTROL STATION WITH FADERS

(FL) JUNCTION BOXES FOR FLUSH SENSORS. CONTRACTOR TO PROVIDE CIRCUIT SHOWN

AT CORRESPONDING BREAKER.

AND ALL ASSOCIATED CONDUIT AND WIRING FOR A COMPLETE AND OPERATING

SYSTEM. TYPICAL FOR EVERY LAVATORY, URINAL AND TOILET FLUSH LOCATION. MULTIPLE LAVATORIES AT TOILETS REQUIRED A SINGLE CONNECTION. PROVIDE

TRANSFORMERS ABOVE CEILING W/ ACCESS PANELS AND PROVIDE GFI CKT BREAKER

# JUNCTION BOX - WALL MOUNTED

MOTORS & LISTED EQUIPMENT CONTROLLERS

"D" "2" "3" "3W" "4W"	DIMMER 1,000W CONTROL SWITCH DOUBLE-POLE TOGGLE SWITCH TRIPPLE POLE TOGGLE SWITCH THREE WAY SWITCH FOUR WAY SWITCH	APPROVAL, ANY SEQUENCE OF WORK, MOP'S (METHOD OF PROCEDURE) AND/OR COORDINATION SHOP DRAWINGS FOR THE INTENDED WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
"K" "O"	KEY OPERATED SWITCH OCCUPANCY SENSOR SWITCH	10. WORK PERFORMANCE REQUIREMENTS
"P" "TM"	TOGGLE SWITCH WITH PILOT LIGHT ROTARY SWITCH WITH TIMER CONTROL	ANY PENETRATIONS OR OPENINGS IN FIRE-RATED PARTITIONS (WALLS OR FLOORS) SHALL BE CLOSED AT THE END OF EACH WORK DAY, OR WHENEVER IT IS ANTICIPATED THAT NO FURTHER WORK WILL OCCUR IN THAT OPENING
"T" "WS"	THERMAL SWITCH WALL SWITCH	DURING THE DAY. THIS INCLUDES ALL TEMPORARY OPENINGS. CLOSURE SHALL BE IN COMPLIANCE WITH 3M FIREPROOFING TEMPORARY OPENINGS. CLOSURE SHALL BE IN COMPLIANCE WITH 3M FIREPROOFING END OF EACH WORK DAY. ALL TEMPORARY WALL AND FLOOR OPENINGS SHALL BE PROTECTED. AND MARKED AT ALL TIMES.
"T/S" "W-STAT"	TEMP/SENSOR SWITCH WALL LINE VOLTAGE STAT	PAINTING SHALL BE SCHEDULED SUCH THAT DRYING TIME OCCURS DURING NON-WORKING HOURS FOR OPERATIONS PERSONNEL COMFORT. NO WELDING SHALL TAKE PLACE INSIDE OF OPERATING FACILITY WITHOUT THE
"LV(2)" "LM"	LOW VOLTAGE SWITCHING SYSTEM # QUANTITY OF LV SWITCHES	WRITTEN AUTHORIZATION OF THE OWNER'S PROJECT REPRESENTATIVE. WELDING SHALL NOT TAKE PLACE WITHIN 5 FEET OF ANY TELECOM EQUIPMENT RACK WITHOUT ADEQUATE PROTECTIVE MEASURES, AS DEEMED APPROPRIATE
"MC"	MASTER SWITCH FOR LOW VOLTAGE SWITCHING SYSTEM MOMENTARY CONTACT SWITCH	BY THE OWNER'S PROJECT REPRESENTATIVE. THE CONTRACTOR SHALL CHECK, VERIFY AND LABEL PHASE ROTATION ANY TIME LEADS ARE CONNECTED TO A NEW OR EXISTING AC SERVICE, GENSET, RECTIFIER OR ANY
"LCC"	SWITCH LEG TO LTG CONTACTOR COIL "LCC"	MOTOR-EQUIPPED, 3-PHASE EQUIPMENT. ALL THREE-PHASE PANELS SERVING SINGLE-PHASE LOADS SHALL BE BALANCED WITHIN 10 PERCENT, USING AMMETER READINGS. MEASUREMENTS SHALL BE TAKEN AT THE END OF CONSTRUCTION AND AGAIN AFTER 30 DAYS IN SERVICE.
TCHES SHOV	WN ON LTG PLAN VIEWS, EQP SWITCHES SHOWN ON PWR PLAN VIEWS	11. CUTTING AND PATCHING
SINGLE POL SUBSCRIPT	LE TWO-POSITION 20A TOGGLE SWITCH U.N.O. ON THE DWGS WITH CODE(S)	ALL CUTTING, DRILLING AND PATCHING OF MASONRY STEEL OR IRON WORK BELONGING TO THE BUILDING MUST BE DONE BY THIS CONTRACTOR IN ORDER THAT HIS WORK MAY BE PROPERLY INSTALLED, BUT UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTIONS OF THE ARCHITECT/ENGINEER OR THEIR
SINGLE POL SUBSCRIPT	LE TWO-POSITION 20A TOGGLE SWITCH U.N.O. ON THE DWGS WITH	REPRESENTATIVE.
		12. AS-BUILT DRAWINGS

THE CONTRACTOR SHALL PROVIDE ALL "AS-BUILT" DRAWINGS SACLED 1/4" MINIMUM AND SUBMIT FOR APPROVAL TO

### THE ARCHITECT/ENGINEER. 13. FIRESTOPPING

ALL PENETRATIONS IN WALLS, FLOORS, OR CEILINGS SHALL BE SUITABLY CLOSED UP AND SEALED WITH A FIRE-STOPPING COMPOUND LISTED IN THE MOST RECENT FACTORY MUTUAL RESEARCH CORPORATION (FMRC) APPROVAL GUIDE. ONLY PRODUCTS MANUFACTURED BY HILTI SHALL BE PREFERRED (NO SUBSTITUTIONS).

# 14. TEMPORARY POWER AND LIGHTING

**GENERAL ELECTRICAL NOTES** 

CONNECT AND PLACE IN FULL OPERATIONAL ORDER.

PROVIDE" MEANS TO "FURNISH" AND "INSTALL".

ARCHITECT/ENGINEER PRIOR TO SUBMITTING BID.

3. INTERPRETATION OF THE DOCUMENTS

DOCUMENTS NOT WITHSTANDING.

4. COORDINATION

CEILING TYPES IN ALL AREAS.

5. SITE EXAMINATION

AGENCIES AND UTILITY COMPANIES FOR THEIR APPROVAL.

8. CONTRACTOR'S DRAWING REVIEW

9. STATEMENT OF WORK

RECOGNIZED.

6. PERMITS

"FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO DELIVERY OF AN ITEM OF EQUIPMENT TO THE PROJECT SITE,

EQUIPMENT TO THE PROJECT SITE, READY FOR INSTALLATION. "INSTALL" MEANS TO SET IN PLACE,

"FUTURE", "BY OTHERS", "REFER (DISCIPLINE) DIVISION" AND SIMILAR EXPRESSIONS INDICATE

UNDER THE DIVISION OR DISCIPLINE ON WHICH THE NOTE APPEARS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK WITH SUPPLIERS, SUBCONTRACTORS,

SPECIFICATIONS WHICH MAY BE IN EXCESS OF ANY REQUIREMENTS OF THESE CODES.

WORK THAT MAY BE PERFORMED UNDER THE CONTRACT DOCUMENTS BUT, NOT NECESSARILY

EMPLOYEES, ETC. SHOULD CLARIFICATION OF ANY PORTION OF THE WORK BE REQUIRED, CONTACT THE

THE WORK SHALL COMPLY WITH LATEST EVANSTON BUILDING CODE. THIS WOULD INCLUDE, BUT IS NOT LIMITED

BUREAUS AND DEPARTMENTS WHICH HAVE AUTHORITY OVER THE PROJECT; ANYTHING IN THESE CONTRACT

THIS SHALL NOT BE CONSTRUED AS WAIVING COMPLIANCE WITH ANY REQUIREMENTS OF THE PLANS AND

THE CONTRACTOR SHALL CAREFULLY COMPARE THE DRAWINGS AND SPECIFICATIONS, CHECKING THE

ENGINEER BEFORE ANY WORK IS EXECUTED. THE CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY

IN THE CONTRACTOR'S PROPOSAL, ANY SUCH WORK WILL NOT BE CONSIDERED ADDITIONAL.

MEASUREMENTS AND CONDITIONS UNDER WHICH CONSTRUCTION IS TO BE IMPLEMENTED. FOR CLARIFICATION

EXCEPTIONS NECESSARY TO MAKE THIS WORK A COMPLETE AND READY-TO-USE INSTALLATION. IF NOT SO-STATED

THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED. TO THIS EXTENT, DATA

LOCATION OF ALL REQUIRED WORK AND EQUIPMENT WITH THAT OF THE OTHER TRADES. WHERE THERE ARE

POTENTIAL CONFLICTS, THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS,

CONDITIONS. REFER TO ARCHITECTURAL/MECHANICAL DRAWINGS FOR PLANS, ELEVATIONS AND DETAILS

INDICATING THE LOCATIONS OF CEILING ELEMENTS (E.G., LIGHTS, SPRINKLERS, DIFFUSERS, ETC.) AND WALL

THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, EXAMINE THE

PREMISES, AND MAKE A THOROUGH SURVEY OF THE CONDITIONS UNDER WHICH CONSTRUCTION WILL BE

HAS BEEN MADE. FAILURE TO DO SO SHALL NOT RELEIVE THE CONTRACTOR OF THE OBLIGATIONS OF THE

ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE

THE CONTRACTOR SHALL SECURE, OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS, TAXES, LICENCES, AND

FEES TO ALL GOVERNMENT AGENCIES REQUIRED FOR THE EXECUTION AND COMPLETION OF THE ELECTRICAL

THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF THE CLIENT'S EMPLOYEES,

ALL CONTRACTORS/BIDDERS SHALL HAVE RECEIVED A COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR REVIEW AND REFERENCE TO WORK INDICATED. CONDUIT LOCATE SERVICES SHALL BE REQUESTED AND

COMPLETED BEFORE DISTURBANCE OF ANY EXISTING GRADE OR ON-GRADE CONSTRUCTION, SLAB DEMOLITION.

OR OTHER ACTIVITIES THAT MAY IMPACT BURIED UTILITIES OR COMMUNICATION CONDUITS. THE CONTRACTOR

EXIST BEFORE EXISTING GRADE IS EXCAVATED OR EXISTING FLOORING DEMOLISHED, REGARDLESS OF THE

THE CONTRACTOR SHALL PROVIDE THE COMPLETE ELECTRICAL INSTALLATION OF WORK AS INDICATED IN THE

CONSTRUCTION DOCUMENTS. PRIOR TO COMMENCEMENT, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND

LOCATION ON THE PROPERTY. THIS SHALL BE REVIEWED WITH THE OWNER'S PROJECT REPRESENTATIVE.

SHALL CONFIRM THAT CONDUIT LOCATE SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONFLICTS

LIVE CABLE, EQUIPMENT, OR DEVICES THROUGHOUT THE COURSE OF THIS WORK.

BUILDING EMPLOYEES AND GUESTS AS WELL AS THEIR OWN FORCES, BY ADEQUATELY PROTECTING ANY EXPOSED

WORK. SCHEDULING OF ALL REQUIRED INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

CONTRACTOR SHALL PREPARE AND SUBMIT ALL SHOP DRAWINGS AS REQUIRED TO THE GOVERNMENTAL

CONTRACT. ANY LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED FOR DIFFICULTIES

IMPLEMENTED. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION

GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. THE CONTRACTOR SHALL COORDINATE THE EXACT

LEVELS, SPACE REQUIREMENTS, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL FIELD

ELEMENTS. CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED

CEILING PLANS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL

BETWEEN VARIOUS DRAWINGS AND/OR SPECIFICATIONS, THE DISPUTED ISSUE SHALL BE REFERRED TO THE

TO, THE CURRENT CITY BUILDING CODE. AMMENDMENTS, NFPA, ANSI, OSHA, AND ALL OTHER LOCAL OR MUNICIPAL

1. DEFINITIONS

2. CODES

THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHTING FOR THIS WORK DURING CONSTRUCTION. TEMPORARY LIGHTING SHALL AT LEAST BE THE EQUAL OF (1)100-WATT FIXTURE EVERY 100 SQUARE FEET, WITH A MINIMUM ONE FIXTURE PER ROOM. TEMPORARY LIGHTING SHALL BE LEFT IN PLACE UNTIL PERMANENT LIGHTING IS COMPLETELY OPERATIONAL. COORDINATE TEMPORARY POWER REQUIREMENTS WITH THE OTHER TRADES AND PROVIDE ADEQUATE PROVISIONS. THE CONTRACTOR SHALL PERFORM ALL COORDINATION WITH THE OWNER AND/OR

### LANDLORD AND UTILITY COMPANY. 15. SWITCH AND RECEPTACLE IDENTIFICATION

PROVIDE MACHINE-PRINTED, PRESSURE SENSITIVE, ABRASION RESISTANT LABEL TAPE ON FACE OF ALL DEVICE PLATES TO IDENTIFY THE PANELBOARD AND CIRCUIT NUMBER FROM WHICH EACH DEVICE IS SERVED.

# 17. PANELBOARDS

ALL PANELBOARDS IN WHICH WORK OCCURS PER THESE DOCUMENTS, SHALL BE PROVIDED WITH UPDATED-TYPEWRITTEN DIRECTORIES. GIVEN ONLY FOR CLARITY AND QUANTITY. CIRCUIT NUMBERS SHOWN IN THE PLANS MAY NOT NECESSARILY REPRESENT ACTUAL CIRCUIT NUMBERS IN PANELBOARD. FROM FLUSH-MOUNTED PANELBOARDS, STUB-OUT ONE 3/4" CONDUIT INTO THE CEILING CAVITY FOR EACH SET OF 3 SPARES AND/OR SPACES OR FRACTION THEREOF.

# 18. WIRING

UNLESS NOTED OTHERWISE, ALL WIRE AND CABLE SHALL BE 600-VOLT COPPER CONDUCTORS WITH TYPE "THHN/THWN" INSULATION. MINIMUM WIRE SIZE SHALL BE #12 AWG FOR LIGHTING AND POWER CIRCUITS AND #14 AWG FOR CONTROL CIRCUITS. PROVIDE GROUNDING FOR CIRCUITS PER CHICAGO BUILDING CODE. UNLESS SPECIFICALLY NOTED OTHERWISE IN THE PLANS, ALL CABLING SHALL BE (2) #12 AND (1) #12 G IN 3/4" C. (NO SHARED NEUTRALS).

### 19. CONDUIT/RACEWAY SYSTEMS

THE CONDUIT ROUTINGS INDICATED ARE ONLY DIAGRAMMATIC IN NATURE. FIELD CONDITIONS SHALL DICTATE THE CONTRACTOR'S EXACT CONDUIT ROUTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER THE CBC AND FOR COORDINATION WITH OTHER DISCIPLINES. ALL EXPOSED RACEWAYS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS, SUCH AS TO FOLLOW STRUCTURAL SURFACE CONTOURS AND NOT OBSTRUCT PASSAGEWAYS. MULTIPLE RACEWAYS SHALL BE RUN TOGETHER, IN GROUPING. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT SHALL BE COORDINATED WITH THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION. EXTRA TIME SHOULD BE ALLOWED FOR THIS REVIEW AND APPROVAL. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED DUE TO LACK OF COORDINATION. ALL CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (EMT) AND MINIMUM SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE. CONNECTORS AND COUPLINGS SHALL BE INSULATED-THROAT COMPRESSION TYPE ONLY. RIGID GALVANIZED-STEEL (RGS) CONDUIT SHALL BE USED WHEN CONDUIT IS INSTALLED IN OUTDOOR AREAS OR WHERE OTHERWISE EXPOSED TO PHYSICAL HARM. EMERGENCY SYSTEMS SHALL BE RUN IN SEPARATE RACEWAY/CONDUIT SYSTEM(S). A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PULLED WITH THE CIRCUIT CONDUCTORS, WHETHER OR NOT INDICATED ON THE DRAWINGS. METAL RACEWAY OR CABLE ARMOR/SHEATH SHALL NOT BE USED AS THE PRIMARY EQUIPMENT GROUNDING CONDUCTOR. RACEWAY SYSTEMS SHALL BE MECHANICALLY AND ELECTRICALLY CONTINUOUS AND SHALL BE BONDED AT ALL POINTS TO THE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ACCORDANCE WITH THE APPLICABLE PROVISIONS IN ARTICLE 250 OF CHICAGO BUILDING CODE.

#### 20. EQUIPMENT

ALL MATERIALS AND EQUIPMENT PROVIDED IN THIS WORK SHALL BE NEW AND SHALL HAVE THE APPROPRIATE UL LISTING AND/OR FM APPROVAL. UNLESS NOTED OTHERWISE, DISCONNECT/SAFETY SWITCHES SHALL BE NON-FUSED HEAVY-DUTY 600-VOLT TYPE. INDOOR ENCLOSURES SHALL BE NEMA 1 AND OUTDOOR ENCLOSURES SHALL BE NEMA 3R.

#### 21. MECHANICAL EQUIPMENT

ALL MECHANICAL EQUIPMENT WILL BE INSTALLED BY THE DIVISION 22 & 23 CONTRACTOR. COORDINATE THE EXACT LOCATION AND NATURE OF ANY REQUIRED ELECTRICAL CONNECTION TO BE PROVIDED FOR MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN. VERIFY THE ELECTRICAL SERVICE REQUIRED FOR EACH ITEM OF MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO FURNISHING SUCH POWER. REFER TO MECHANICAL DRAWING FOR MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. MAKE CONNECTION AND PROVIDE APPROPRIATE WIRE, CONDUIT AND OVER CURRENT PROTECTION FOR EQUIPMENT. THE DISCONNECTING MEANS FOR ALL MECHANICAL EQUIPMENT SHALL BE ACCESSIBLE AND HAVE CLEARANCES AS REQUIRED BY THE CBC. MOTORS SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 22 & 23 WORK, WITH POWER CONNECTED UNDER DIVISION 16 WORK. FINAL CONNECTION SHALL BE MADE WITH SUITABLE LENGTH OF LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT. ALL MOTOR BRANCH CIRCUITS, ETC., SHALL BE FIELD-VERIFIED FOR PROPER SEQUENCE AND MOTOR ROTATION. PHASE SEQUENCE SHALL BE A-B-C (VIEWED FROM FRONT: LEFT TO RIGHT, TOP TO BOTTOM, FRONT TO REAR). REFER TO MECHANICAL DRAWINGS FOR MOTORS THAT ARE TO BE INTERLOCKED.

#### 22. MISCELLANEOUS SUPPORTING MEMBERS

ALL ANGLES, CHANNELS, AND OTHER MISCELLANEOUS STEEL, BOLTS, THREADED RODS, ETC., REQUIRED TO SUPPORT LIGHT FIXTURES, LADDER TRAY OR OTHER ELECTRICAL EQUIPMENT OR DEVICES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. ALL THREADED RODS SHALL BE A MINIMUM OF 3/8" IN DIAMETER. ALL LIGHTING FIXTURES AT SUSPENDED CEILINGS SHALL BE PROPERLY SUPPORTED.

#### 23. ELECTRICAL AND TECHNOLOGY ALTERATION AND DEMOLITION:

- A. A COMPLETE AND ACCURATE DESCRIPTION OF ALL ELECTRICAL WORK WITHIN THE AFFECTED AREAS CANNOT BE ACCOMPLISHED THROUGH THE MEDIA OF DRAWINGS AND SPECIFICATIONS. IN EVERY CASE WHERE SUCH EXISTING ELECTRICAL WORK PREVENTS PROPER CONSTRUCTION OF NEW WORK AS INDICATED, PERFORM WHATEVER WORK AND PROVIDE WHATEVER MATERIALS ARE REQUIRED IN ORDER TO REMOVE, REPOUTE, RELOCATE OR IN OTHER WAYS ALTER THAT EXISTING INTERIOR AND/OR SITE ELECTRICAL AND TECHNOLOGY WORK. SUCH PERFORMANCE AS GENERALLY OUTLINED HEREIN AND AS IS FOUND NECESSARY UNDER FIELD CONDITIONS SHALL BE CONSIDERED IS INCLUDED UNDER THE CONTRACT.
- B. THE ELECTRICAL DRAWINGS ARE GENERALLY INSTRUCTIVE OF THE ALTERATIONS WHICH INVOLVE THE EXISTING ELECTRICAL WORK. IT IS NOT INTENDED THAT SUCH ALTERATIONS BE LIMITED TO THESE INSTRUCTIONS.
- C. WHERE EXISTING INTERIOR AND/OR SITE ELECTRICAL WORK MUST BE REMOVED AS A RESULT OF THE ALTERATIONS, IT SHALL BE COMPLETELY REMOVED, BACK TO THE FIRST OUTLET WHICH IS LEFT UNAFFECTED BY THE REVISION. ALL CONDUIT WIRE, SUPPORTS, HANGERS, ETC. ARE INCLUDED, CONDUIT WHICH IS BURIED IN CONCRETE OR OTHERWISE INACCESSIBLY POSITIONED MAY BE ABANDONED. IN SUCH CASES, ALL WIRE SHALL BE PULLED OUT OF CONDUIT AND THE CONDUIT ITSELF PLUGGED AT EACH END.
- D. EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, INCLUDING INTERIOR AND/OR SITE LIGHTING FIXTURES, SWITCHES, RECEPTACLES, SIGNAL LIGHTS, SPEAKERS, INTERCOM EQUIPMENT, EMERGENCY CALL PHONES, CONTROLS, CONDUIT OUTLETS, FITTINGS, WIRE, CABLE AND OTHER DEVICES WHICH AREA REMOVED AS A RESULT OF THE ALTERATIONS SHALL BE STORED ON THE SITE AS DIRECTED.
- E. ALL ITEMS OF EXISTING EQUIPMENT, MATERIALS, FIXTURES, ETC. SHALL REMAIN THE PROPERTY OF THE BUILDING OWNER. ALL REUSABLE ITEMS SALVAGED DURING DEMOLITION SHALL BE RETAINED AND TURNED OVER TO THE BUILDING OWNER.
- F. LEGALLY DISPOSE ALL ITEMS REJECTED OR UNWANTED BY THE BUILDING OWNER. EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, WITH THE EXCEPTION OF WIRE AND CABLE, AS GENERALLY OUTLINED IN THE PREVIOUS PARAGRAPH, SHALL BE REUSED AS COMPLETELY AS IS FOUND PRACTICAL. EXAMINE THE CONDITION OF SUCH MATERIALS AND EQUIPMENT AND MAKE A PRIOR DETERMINATION OF WHETHER IT IS SUITABLE FOR REUSE. PRESENT FINDINGS PERIODICALLY TO THE ARCHITECT WHO IN TURN WILL MAKE THE FINAL DECISION REGARDING REUSABILITY. ALL WIRE AND CABLE SHALL BE NEW.
- G. THIS CONTRACTOR SHALL REPAIR ALL DAMAGES TO EXISTING CONSTRUCTION DUE TO DEMOLITION, ALTERATIONS, OPERATION OR INSTALLATION OF NEW WORK.
- H. THIS CONTRACTOR SHALL PERFORM ALL INTERIOR AND/OR SITE CUTTING AND PATCHING FOR ELECTRICAL AND TECHNOLOGY WORK

<u>ABBREVIATIONS</u>							
AC	ABOVE COUNTER	JB	JUNCTION BOX				
AFF	ABOVE FINISHED FLOOR	KV	KILOVOLT				
BPS	BOLTED PRESSURE SWITCH	KW	KILOWATT				
BFP	BLOWN FUSE PROTECTION	LTG	LIGHTING				
СВ	CIRCUIT BREAKER	MCB	MAIN CIRCUIT BREAKER				
CCT	CIRCUIT	MMD	MULTI-METERING DEVICE				
СО	CONDUIT ONLY	MLO	MAIN LUGS ONLY				
СР	CONTROL PANEL	NC	NORMALLY CLOSED (CONTACTS)				
DISC	DISCONNECT	NIC	NOT IN CONTRACT				
DN	DOWN	NO	NORMALLY OPEN (CONTACTS)				
DPDT	DOUBLE POLE DOUBLE THROW	NTS	NOT TO SCALE				
Е	EXISTING TO REMAIN	PNL	PANEL				
EM	EMERGENCY	PRI	PRIMARY				
EPO	EMERGENCY POWER OFF	R	EXISTING TO BE REMOVED				
ESP	ELEVATOR STATUS PANEL	RCP	REFLECTED CEILING PLAN				
EWC	ELECTRIC WATER COOLER	SEC	SECONDARY				
FA	FIRE ALARM	SW	SWITCH				
FAA	FIRE ALARM ANNUNCIATOR	Т	TELEPHONE				
FCU	FAN COIL UNIT	TP	TAMPER PROOF				
FPB	FAN POWERED BOX	UH	UNIT HEATER				
GFI	GROUND FAULT INTERRUPTER	WP	WEATHERPROOF				
GRD	GROUND	WT	WATERTIGHT				
HP	HORSEPOWER						

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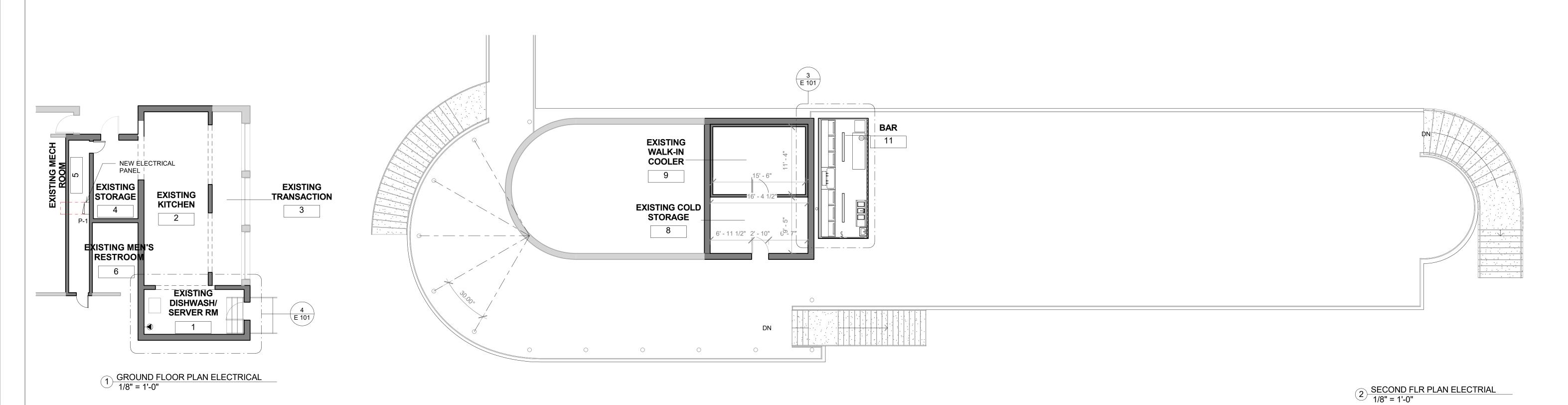
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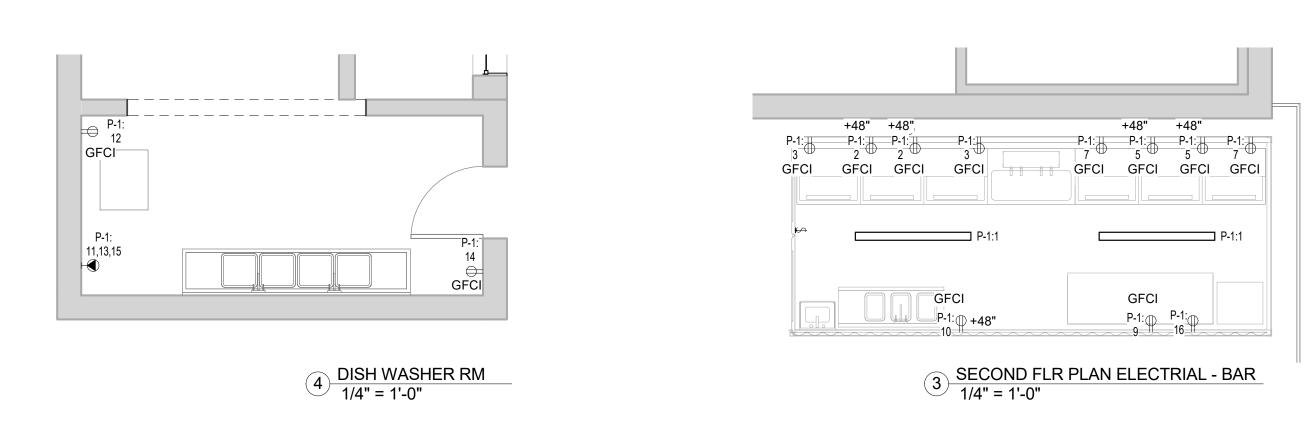
VERIFY ALL FIGURED DIMENSIONS AND CONDITIONS AT THE JOBSITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS. BEGINNING OR FABRICATION OF ANY WORK, NO DOCUMENTS SHALL BE CONSIDERED TO ESTABLISH A CONSTRUCTIONTOLERANCE 3. DO NOT SCALE THESE DRAWINGS.



01/11/2021 NTS SHEET NAME: **ELECTRICAL** 

E 100





LOCATION: ELECTRICAL RM MOUNTING TYPE: SURFACE				VOLTS: 120/208 Why PHASES: 3				A.I.C. Rating: 10,000 AIC MAINS TYPE:				NEUTRAL BUS: STANDARD, COPPEI GROUND BUS: STANDARD, COPPEI	
	ENCLOSURE: NEMA 1 PANEL			WIRES: 4 MCB TYPE: COPPER				MAINS 100 A					
	FED FROM:		MC	SB TYPE:	COPPER	<u> </u>		MCB RATING	j:				
CCT NO.	Load Name	TRIP	POLES	,	4	i	В		C	POLES	TRIP	Load Name	CC
1	SECOND FLOOR BAR - LIGHTING	20 A	1	104 VA	360 VA					1	20 A	COUNTER RECEPTACLE	2
3	UNDER COUNTER COOLER - BAR	20 A	1			360 VA	0 VA			3	20 A	UNDER COUNTER COOLER - BAR	4
5	COUNTER RECEPTACLE	20 A	1					360 VA	0 VA				6
7	UNDER COUNTER COOLER - BAR	20 A	1	360 VA	0 VA								8
9	COUNTER RECEPTACLE - BAR	20 A	1			180 VA	180 VA			1		RECEPTACLE	10
11	INSTANT WATER HEATER - DISH	20 A	3					667 VA	180 VA	1		RECEPTACLE - DISH WASHER RM	12
13				667 VA	180 V					1		BUG ZAPPER - DISH WASHER RM	14
15						667 VA	180 VA			1	20 A	BUG ZAPPER - BAR	16
17	Spare	20 A	1					0 VA	0 VA			Space	18
19	Spare	20 A	1	0 VA	0 VA							Space	20
21	Spare	20 A	1			0 VA	0 VA					Space	22
23	Spare	20 A	1					0 VA	0 VA			Space	24
25	Spare	20 A	1	0 VA	0 VA							Space	26
27	Spare	20 A	1			0 VA	0 VA					Space	28
29	Spare	20 A	1					0 VA	0 VA			Space	30
31	Spare	20 A	1	0 VA	0 VA							Space	32
33	Spare	20 A	1			0 VA	0 VA					Space	34
35	Spare	20 A	1					0 VA	0 VA			Space	36
37	Spare	20 A	1	0 VA	0 VA							Space	38
39	Spare	20 A	1			0 VA	0 VA					Space	40
41	Spare	20 A	1					0 VA	0 VA			Space	42
			TOTAL LOAD:	167	1 VA	156	7 VA	120	7 VA				
			TOTAL AMPS:	14	I A	14	I A	10	) A				
OAD	CLASSIFICATIONS:		CONN	ECTED LO	AD	DEMAND FAC	CTOR	ESTIMATED	DEMAND			PANEL TOTALS	
LECTRICAL HEATING			0 VA		0.00%		0 V	A	TOTAL	L CONN	IECTED LOAD: 4444 VA		
ighting			104 VA		100.00%	,	104	VA	1	TOTAL E	EST. DEMAND: 2274 VA		
MOTOR/EQUIPT.			0 VA		0.00%		0 V	A		-	TOTAL CONN.: 12 A		
RECEPTACLE			4340 VA		50.00%		2170		7	TOTAL E	EST. DEMAND: 6 A		
OTES												I	

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ISSUE

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Revision Schedule

# Description Date

1 ISSUE FOR CONSTRUCTION 06/08/2020

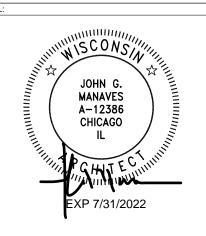
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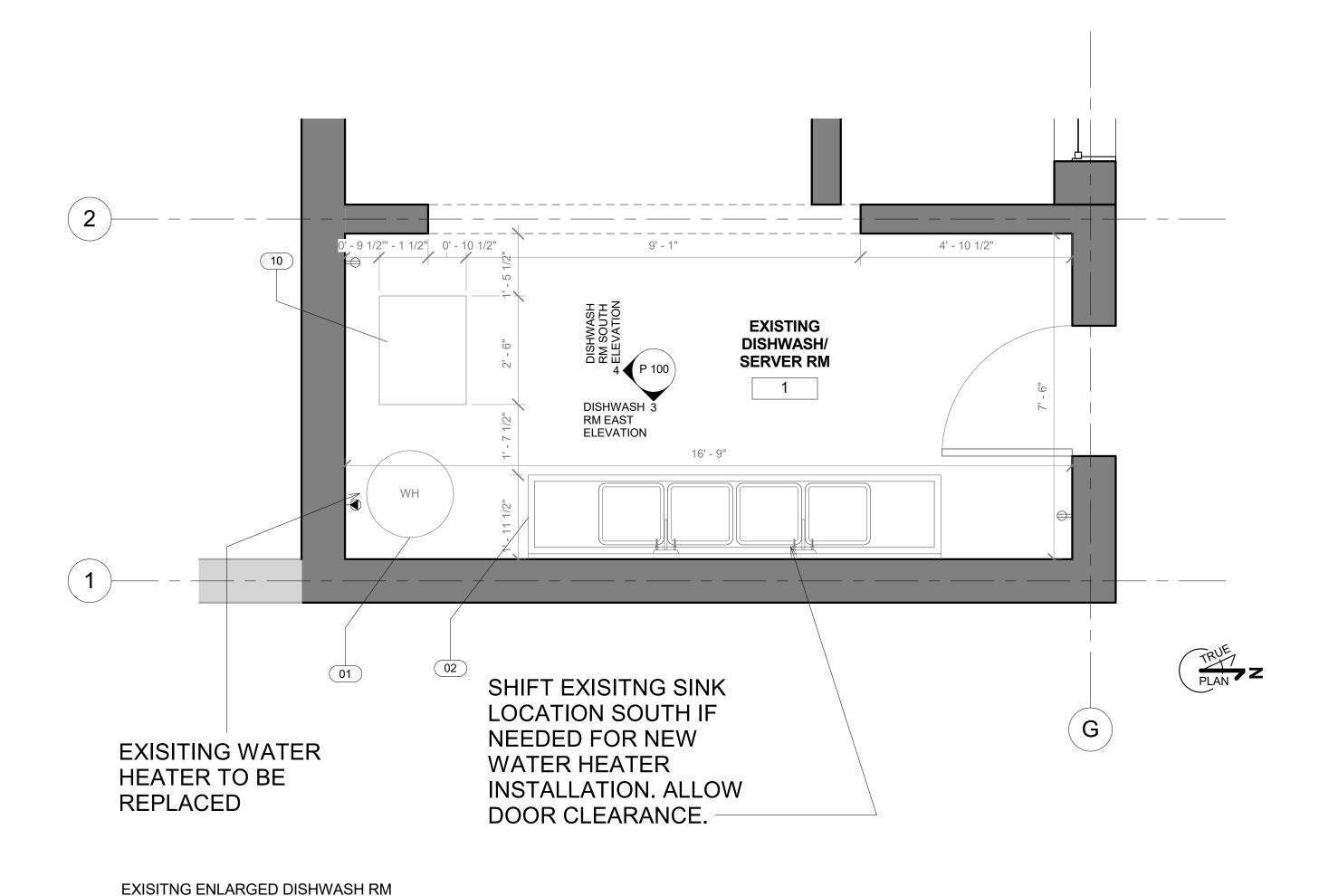
3. DO NOT SCALE THESE DRAWINGS. SEAL:



ISSUE DATE:
01/11/2021
SCALE:
As indicated
SHEET NAME:

ELECTRICAL FLOOR PLAN AND SCHEDULE

E 101



	EQUIPMENT LEGEND
01	WATER HEATER
02	EXISTING 4-BASIN SINK
10	EXISTING GREASE TRAP

# **PLUMBING NOTES:**

1. ALL PLUMBING WORK TO BE DONE IN ACCORDANCE WITH APPLICABLE CODES AND

2. ALL HOT & COLD WATER SUPPLY PIPING SHALL BE INSULATED WITH A MIN. 1/2" FIBERGLASS INSULATION AND FACTORY APPLIED VAPOR BARRIER WHERE REQUIRED.

3. PROVIDE ROOF OPENINGS AND FLASH ALL PIPING EXTENDED THROUGH ROOF. 4. THE PLUMBING CONTRACTOR SHALL INCLUDE ALL NECESSARY MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION OF THE WATER AND SEWERAGE SYSTEM. PROVIDE ALL ROUGH-IN AND MAKE FINAL CONNECTIONS TO ALL PLUMBING FIXTURES. PROVIDE P-TRAPS, AIR CHAMBERS, SUPPLIES AND STOPS, HANGARS, CARRIERS AND MISC. RELATED ITEMS.

5. PROVIDE CLEANOUTS IN WASTE AND SOIL LINES FOR EACH CHANGE IN DIRECTION GREATER

THAN 45 DEGREES AND AT THE TOP OF EACH STACK. 6. ALL WATER PIPE FIXTURES TO BE VALVED.

2 PLAN 1/2" = 1'-0"

7. WATER CLOSETS TO BE MAX. 4 GPF, LAVS TO BE .5 GPM AT 80 PSI, SINK TO BE 2.5 GPM AT 60 PSI AND URINALS TO BE 1GAL/FLUSHING CYCLE.

8. PROVIDE PLUMBING FIXTURES WITH TRAPS AND STOPS AS REQUIRED OR INDICATED. 9. PROVIDE ALL EXCAVATION AND BACKFILL FOR INSTALLATION OF WORK AS NEEDED.

10. PROVIDE AND INSTALL VENTS AS REQUIRED BY CODE. 11. PROVIDE AIR CHAMBERS AND SHUTOFF VALVES FOR ALL PLUMPING FIXTURES.

12. EACH PIPING SYSTEM TO BE SUPPORTED BY THE BUILDING STRUCTURE USING APPROVED TYPE HANGERS AND ATTACHMENTS. HANGARS AND ATTACHMENTS TO BE OF STEEL AND/OR COPPER COATED CONSTRUCTION, PROVIDED W/ MEANS OF ADJUSTMENTS AFTER ERECTION OF THE PIPING. HANGER RODS SHALL BE SOLID STEEL AND COMPATIBLE W/ HANGER

13. PROVIDE SHUT-OFF AND CHECKVALVES AS REQUIRED.

14. WHERE TWO DISSIMILAR METALS ARE JOINED TO MAKE A HOT OR COLD WATER CONNECTION, PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL A DIELECTRIC UNIT TO PREVENT ELECTROLYSIS.

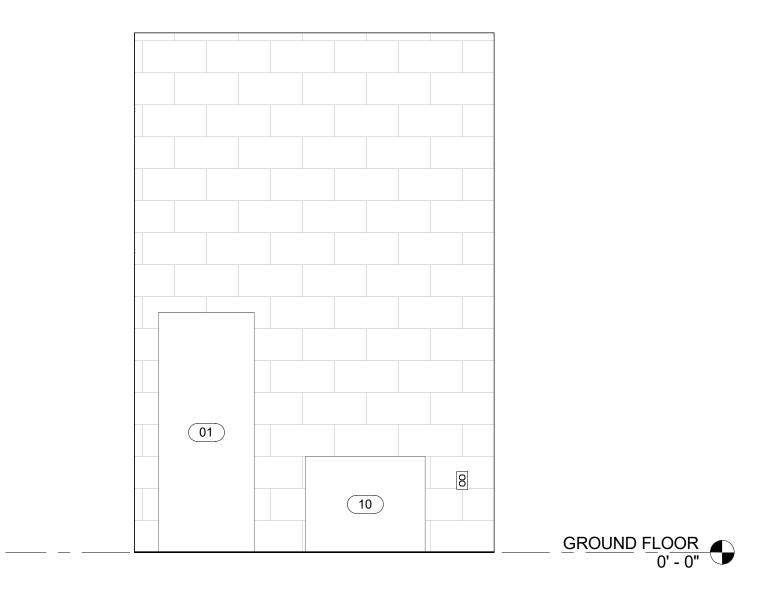
15.CONTRACTOR TO PROVIDE STEEL PIPE SLEEVES WHERE PIPES PASS THROUGH WALLS AND 16. TEST ALL HOT AND COLD WATER SUPPLY PIPING HYDROSTATICALLY AT 100PSI FOR 2 HOURS. TEST ALL SEWERAGE AND DRAINAGE PIPING BY FILLING WITH WATER UP TO THE

HIGHEST POINT IN THE SYSTEM AND ALLOW TO REMAIN FOR 24 HOURS. REWORK, REPAIR AND RETEST ALL JOINTS SHOWING EVIDENCE OF LEAKS. 17. CLEAN ALL HOT AND COLD WATER PIPING SYSTEM CHLORINATE IN ACCORDANCE WITH METHOD PRESCRIBED BY AWWA PRIOR TO TURNING OVER TO OWNER.

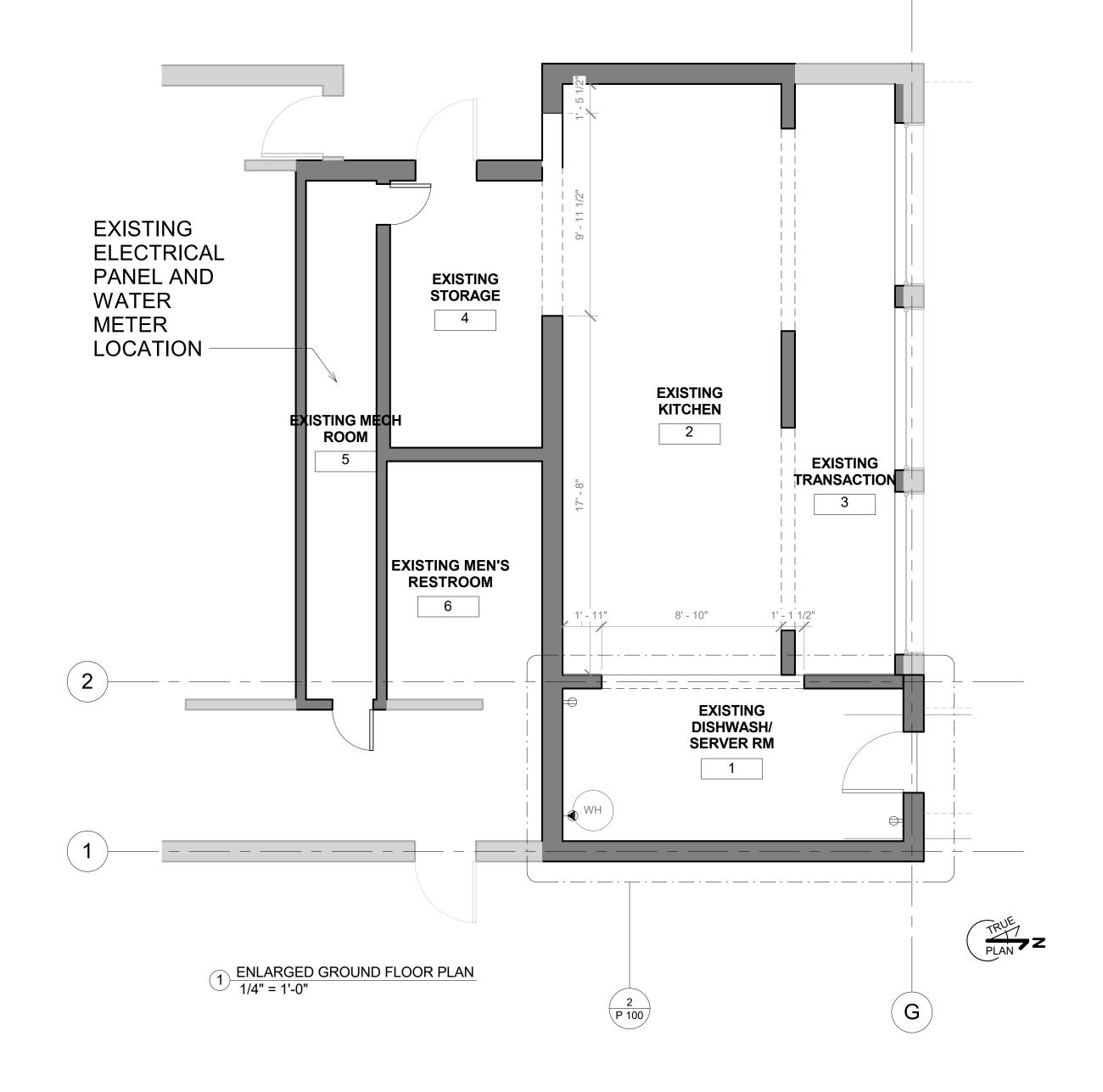
18. SERVICE WATER HEATER ON TO BE SET TO 90°F FOR EQUIPMENT. 19. OUTLET TEMPERATURE ON LAVS TO BE MAXIMUM 110°F.

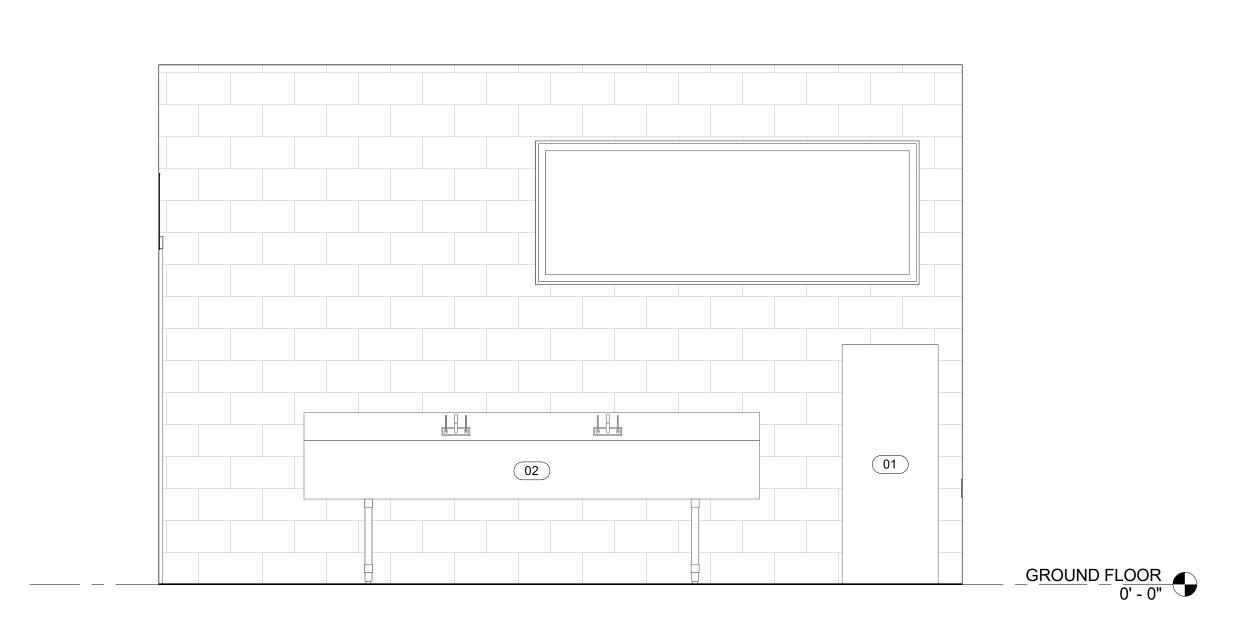
20. ALL LAVATORY FAUCETS ARE PROVIDED WITH AN AUTOMATIC SAFETY WATER MIXING DEVICE.

21. HOT WATER PIPES ARE INSULATED TO ≥R-3



4 DISHWASH RM SOUTH ELEVATION 1/2" = 1'-0"





3 DISHWASH RM EAST ELEVATION 1/2" = 1'-0"

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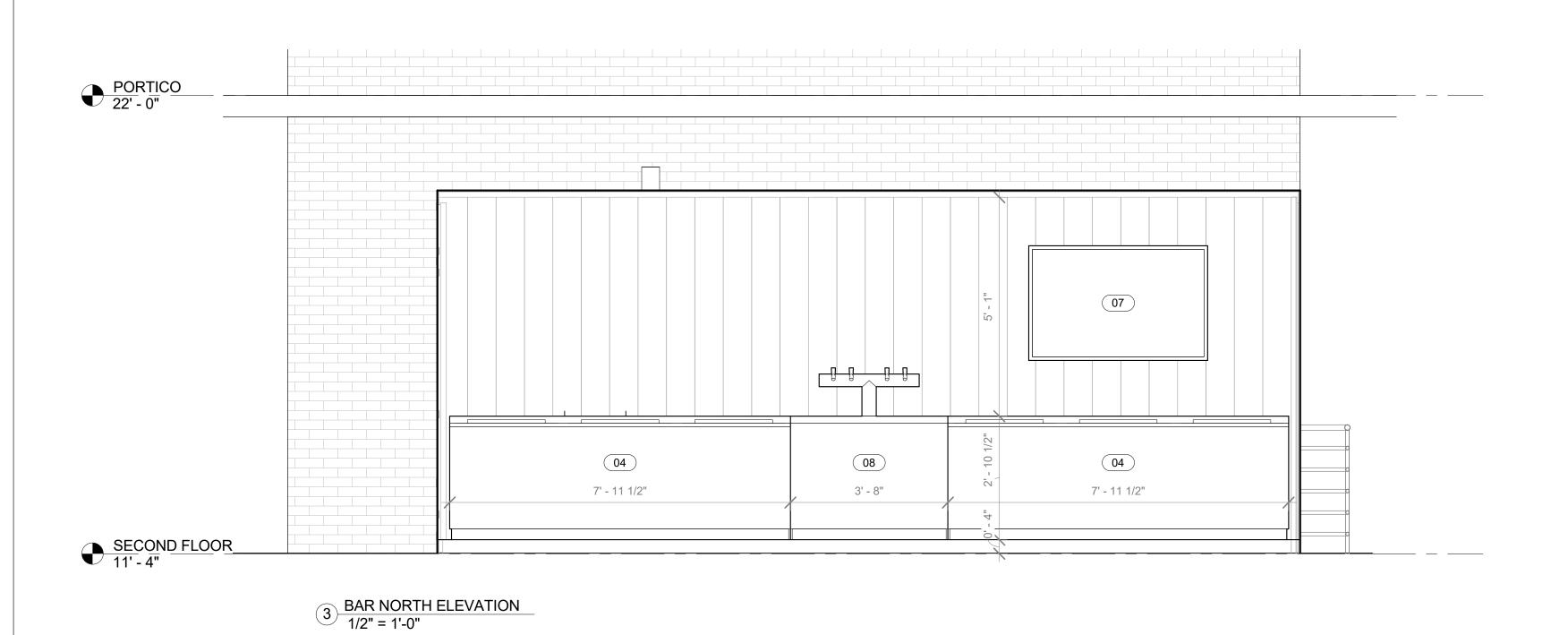
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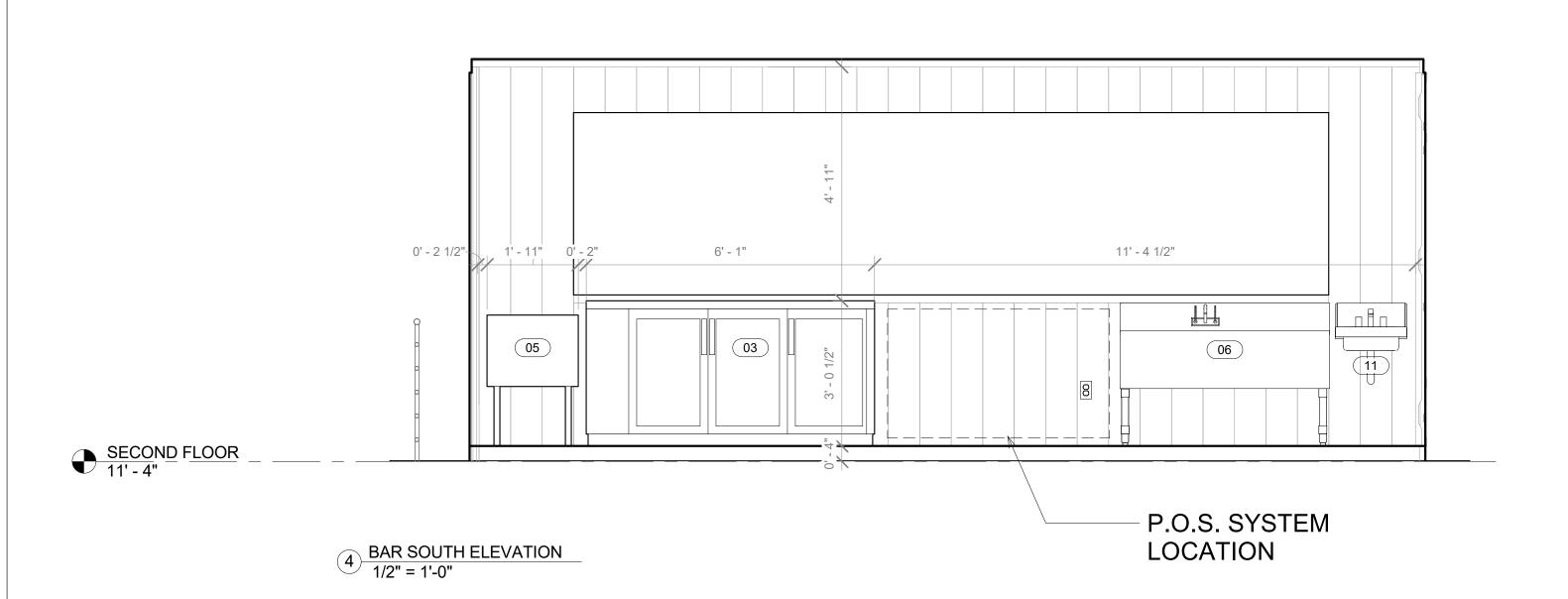


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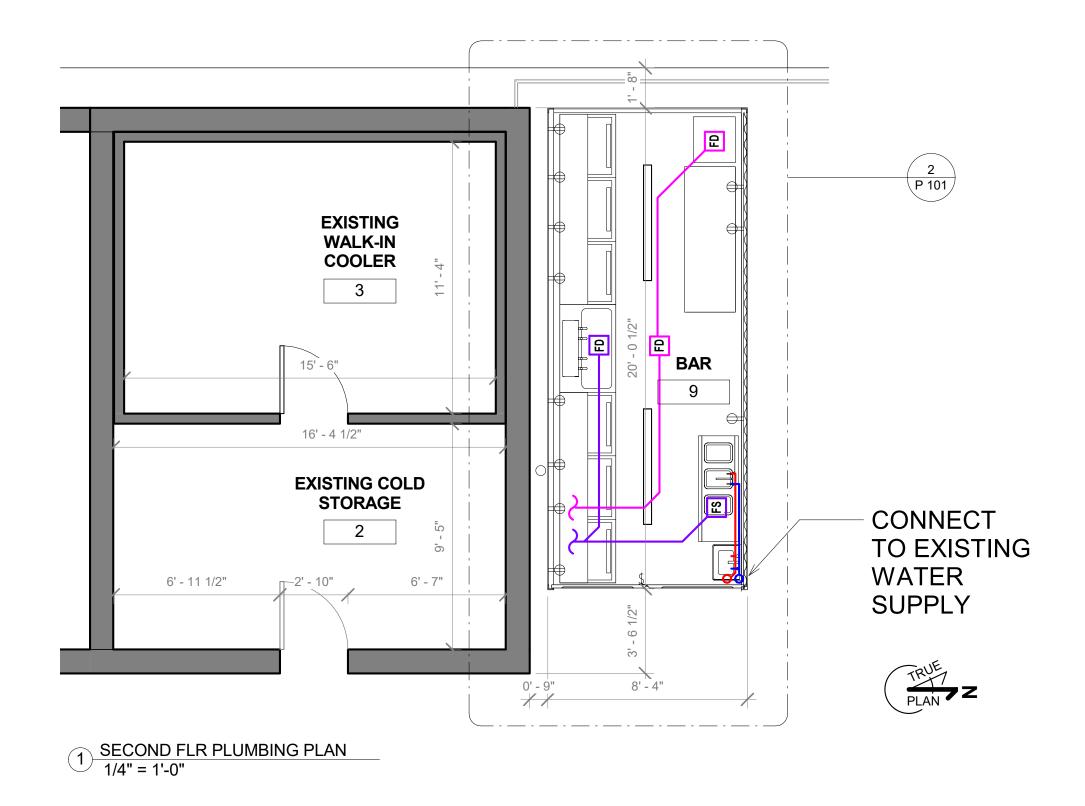
**GROUND FLOOR** PLUMBING

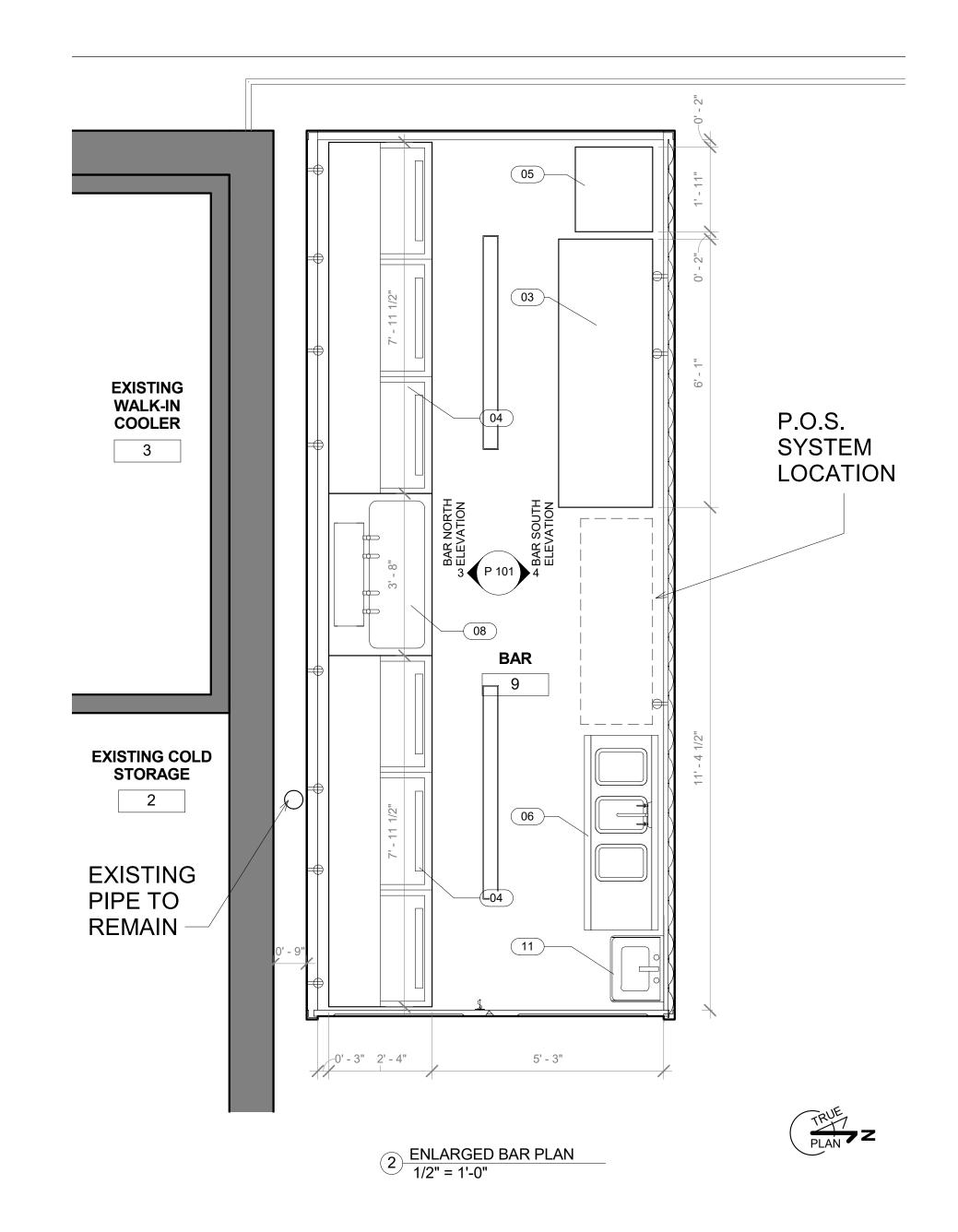
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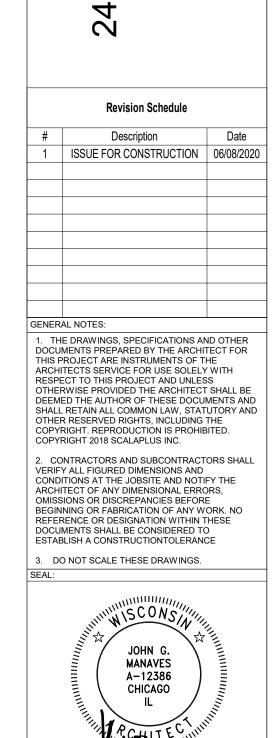


EQUIPMENT LEGEND				
03	03 BACKBAR REFRIGERATOR			
04	HORIZONTAL COOLER			
05	ICE BIN			
06	06 UNDERBAR 3-BASIN SINK			
07	MOUNTED TELEVISION			
08	TAP TOWER			
11	HAND SINK			









1SSUE DATE: 01/11/2021

As indicated

SHEET NAME:

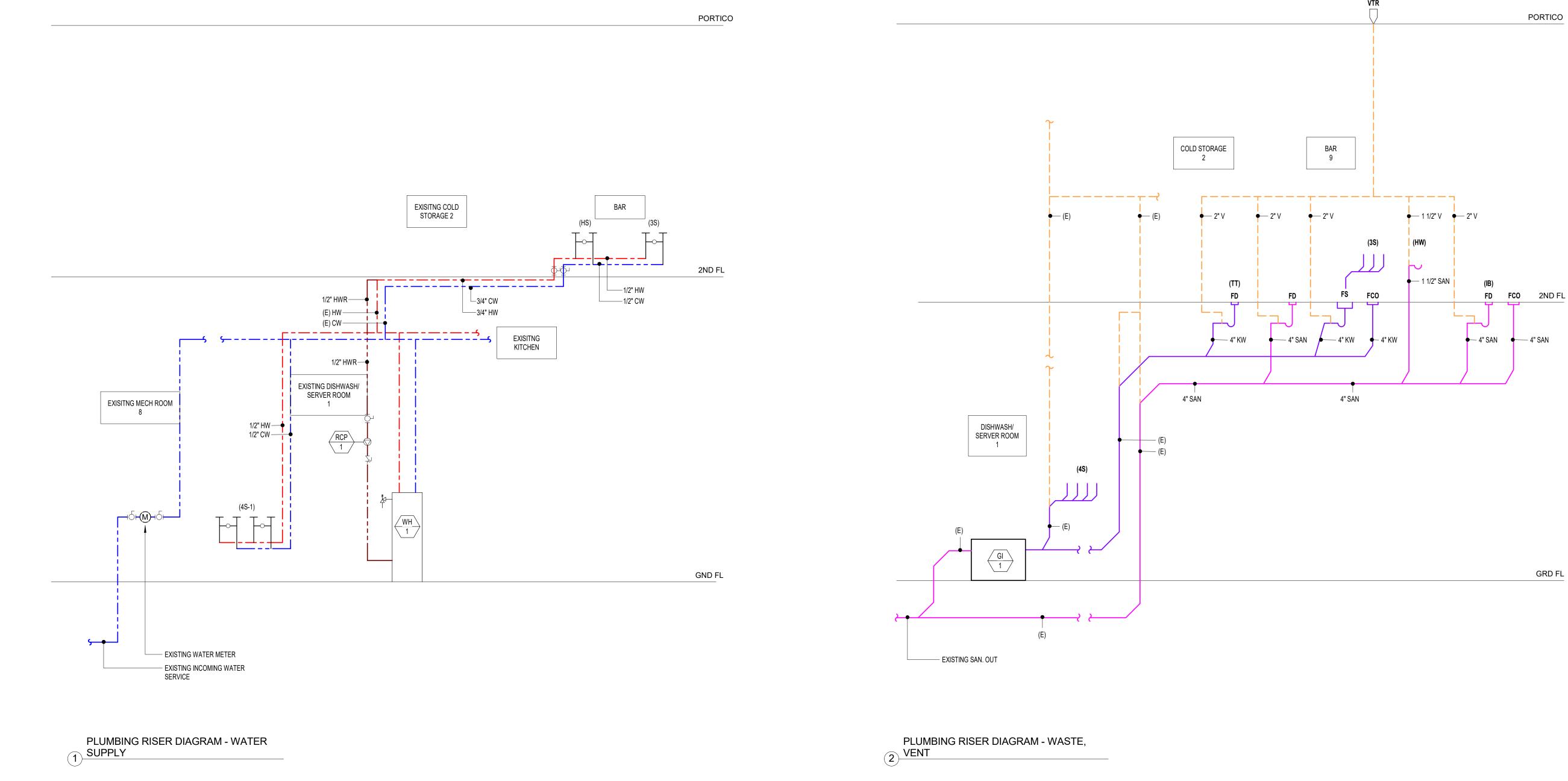
PLUMBING

SHEET NUMBER:

SECOND FLOOR

P 101

SCALE:



PLUMBING	PLUMBING SYMBOLS LEGEND								
SYMBOL	DESCRIPTION	CRIPTION SYMBOL DESCRIPTION							
	VENT THROUGH ROOF	RCP 1	RECIRCULATION PUMP						
70	CHECK VALVE	WH	WATER HEATER AO Smith ATI-540H-N						
151	BALL VALVE / ISOLATION VALVE								
	PUMP	GI 1	EXISITNG GREASE INTERCEPTOR						

PLUMBING SYSTEMS LEGEND				
SYMBOL	DESCRIPTION			
	HOT WATER			
	COLD WATER			
	VENT			
	KITCHEN WASTE			

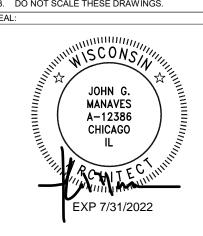
PLUMBING TAG LEGEND								
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION			
FCO	FLOOR CLEAN OUT	(3S)	3-BASIN UNDERBAR SINK	(TT)	TAP TOWER			
FD	FLOOR DRAIN	(E)	EXISTING	(IB)	ICE BIN			
FS	FLOOR SINK	SAN	SANITARY	V	VENT			
(HS)	HANDSINK	KW	KITCHEN WASTE	VTR	VENT THROUGH ROOF			
(4S)	4-BASIN SINK							

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Revision Schedule					
#	Description	Date			
1	ISSUE FOR CONSTRUCTION	06/08/20			
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P 200