APPLICABLE CODES

BUILDING: 2018 INTERNATIONAL BUILDING CODE W/ LOCAL AMENDMENTS
PLUMBING: 2018 INTERNATIONAL PLUMBING CODE W/ LOCAL AMENDMENTS
MECHANICAL: 2018 INTERNATIONAL MECHANICAL CODE W/ LOCAL AMENDMENTS
ELECTRICAL: 2017 NATIONAL ELECTRICAL CODE W/ LOCAL AMENDMENTS
STRUCTURAL: 2018 INTERNATIONAL BUILDING CODE W/ LOCAL AMENDMENTS
ACCESSIBILITY: 2009 ICC A117.1 CHAPTER 11 OF IBC
FIRE: 2018 INTERNATIONAL FIRE CODE W/ LOCAL AMENDMENTS

USE GROUP (SECTION 309)

M (MERCANTILE) - SECTION 309.1

CONSTRUCTION TYPE (SECTION 602.2)

II-B (UNPROTECTED, SPRINKLERED) - TABLE 601

	OCCI	JPANT	LOAD) (TABLE 1004.5)	
USE GROUP	AREA	FLOOR AREA PER OCCUPANT (S.F) (TABLE 1004.5)	MAXIMUM TRAVEL DISTANCE (TABLE 1017.2)		TOTAL OCCUPANT LOAD
MERCANTILE	29448 SQ. FT.	60 GROSS	200'		490 OCC.
STORAGE, STOCK, SHIPPING AREAS	6497 SQ. FT.	300 GROSS	200'		21 OCC.
OFFICE AREAS	1473 SQ. FT.	150 GROSS	200'		10 OCC.
TOTAL	37417 SQ. FT.				521 OCC. TOTAL

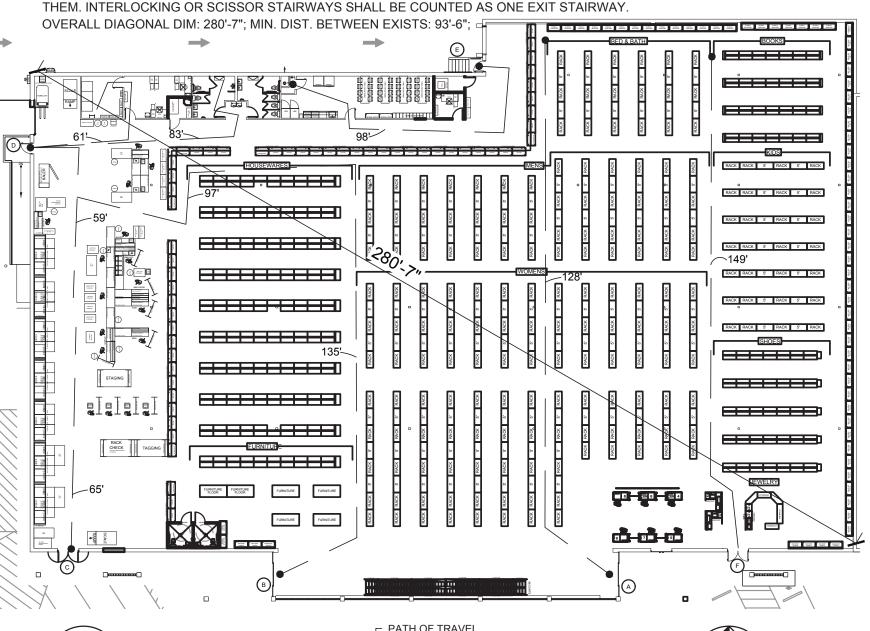
E	EGRESS PROVIDED (TABLE 1005.3.2)											
521 TOTAL OCCUP	521 TOTAL OCCUPANTS x 0.2 = 104.2" TOTAL REQUIRED EGRESS WIDTH											
EXIT DESIGNATION	EXIT DESIGNATION DOOR (.2 IN PER OCCUPANT) STAIR (.3 IN PER OCCUPANT) MOST STRINGENT											
	SIZE	EGRESS WIDTH	OCCUPANT LOAD	EGRESS WIDTH	OCCUPANT LOAD	OCCUPANT LOAD						
A	7'-2"	76"	521 OCC.			521 OCC.						
В	7'-2"	76"	521 OCC.			521 OCC.						
©	6'-0"	68"	521 OCC.			521 OCC.						
D	3'-0"	34"	31 OCC.			31 OCC.						
E	3'-0"	34"	31 OCC.			31 OCC.						
F	6'-0"	68"	521 OCC.			521 OCC.						
		374" TOTAL EGRESS WIDTH PROVIDED				2,652 OCC.						
			-									

EXIT SEPARATION

1 EGRESS PLAN

A001 $\int \overline{\text{SCALE}} = 30'-0"$

1007.1.1: WHERE TWO EXITS, EXIT ACCESS DOORWAYS, EXIT ACCESS STAIRWAYS OR RAMPS, OR ANY COMBINATION THEREOF, ARE REQUIRED FROM ANY PORTION OF THE EXIT ACCESS, THEY SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE-THIRD OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN



PLUMBING FIXTURE CALCULATIONS REFERENCE 2018 INTERNATIONAL PLUMBING CODE W/ LOCAL AMENDMENTS, TABLE 403.1										
OCCUPANCY	TOTAL OCCUPANTS	WATER CLOSETS / URINALS	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINK					
	521									
RETAIL M	260 FEMALE	1 PER 500	1 PER 750	1 PER 1000	1 PER FLOOR = 1					
	260 MALE	1 PER 500	1 PER 750							
TOTAL REQUIRED	FEMALE	1	1	1	1					
TOTAL REQUIRED	MALE	1	1		1					
TOTAL PROVIDED	FEMALE	5	3	2	1					
TOTAL PROVIDED	MALE	4	3	2	1					

— TRAVEL DISTANCE TO EXIT



LEE'S SUMMIT, MISSOURI

					RESPONSIBIL	ITY S	CHEDULE				
DIVISION	DESCRIPTION	FURNISHED	INSTALLED	SUBMITAL REQUIRED	NOTES	DIVISION	DESCRIPTION	FURNISHED	INSTALLED	SUBMITAL REQUIRED	NOTES
1	SECURITY SYSTEM (ADT)	SAVERS	SAVERS		GC TO PROVIDE ELECTRICAL SUPPORT,	9	GYPSUM BOARD ASSEMBLIES	CONTRACTOR	CONTRACTOR		
					COORDINATE INSTALLATION, CALL FOR ROUGH-IN AND PROVIDE/INSTALL CONDUIT		TILE	CONTRACTOR	CONTRACTOR		
	FURNITURE AND OFFICE EQUIPMENT	SAVERS	SAVERS			7	ACOUSTICAL CEILINGS	CONTRACTOR	CONTRACTOR		
	COMPUTER WIRING	SAVERS	SAVERS		CONDUIT BY GC	7	WALL BASE	CONTRACTOR	CONTRACTOR		
	TELEPHONE SYSTEM WIRING	SAVERS	SAVERS		CONDUIT BY GC	7	SHEET VINYL FLOORING	CONTRACTOR	CONTRACTOR		
	MUSIC SYSTEM WIRING	SAVERS	SAVERS		CONDUIT BY GC		VINYL COMPOSITION TILE (VCT)	CONTRACTOR	CONTRACTOR		SEE NOTE #1.
	CUTTING AND PATCHING	CONTRACTOR	CONTRACTOR			7	FLOOR PREPARATION AND SUBFLOORING	CONTRACTOR	CONTRACTOR		
	SUBMITTALS	CONTRACTOR	CONTRACTOR			7	PAINT	CONTRACTOR	CONTRACTOR		
	CONSTRUCTION SCHEDULES	CONTRACTOR	CONTRACTOR				EIFS OR BRICK FINISH	CONTRACTOR	CONTRACTOR		FOR NEW WORK AND REPAIRS TO EXISTING
	TEMPORARY FACILITIES, SERVICES AND CONTROLS	CONTRACTOR	CONTRACTOR			10	LOUVERS AND VENTS	CONTRACTOR	CONTRACTOR		
	PROJECT CLOSEOUT	CONTRACTOR	CONTRACTOR	YES			SPECIALTY STOREFRONT SIGNS AND AWNINGS	SAVERS	SAVERS		COORDINATE WITH VENDOR
	REMOVE EXISTING INTERIOR PARTITIONS AND FINISHES	CONTRACTOR	CONTRACTOR				STOREFRONT SIGN WIRING	CONTRACTOR	CONTRACTOR		COORDINATE WITH VENDOR
	REMOVE EXISTING FIXTURES, FINISHES, AND EQUIPMENT	CONTRACTOR	CONTRACTOR				FIRE EXTINGUISHERS AND CABINETS	CONTRACTOR	CONTRACTOR		COORDINATE WITH LOCAL AUTHORITIES
	REMOVE AND CAP PLUMBING AND ELECTRICAL	CONTRACTOR	CONTRACTOR				TOILET ACCESSORIES	SAVERS	CONTRACTOR		
	TEMPORARY ELECTRIC	CONTRACTOR	CONTRACTOR			_	TOILET SIGNS	CONTRACTOR	CONTRACTOR		
	TEMPORARY HEATING AND COOLING	CONTRACTOR	CONTRACTOR			╛	HAND DRYERS	CONTRACTOR	CONTRACTOR		
	LEGAL DISPOSAL OF ALL WASTE MATERIALS	CONTRACTOR	CONTRACTOR				BABY CHANGING STATIONS	CONTRACTOR	CONTRACTOR		PROVIDE WALL BLOCKING AS RECOMMENDED E MANUF.
	INSTALLATION OF BARRICADE	CONTRACTOR	CONTRACTOR		REMOVAL BY GC		TOILET ROOM MIRRORS	CONTRACTOR	CONTRACTOR		
	TEMPORARY ENCLOSURE OR FENCE	CONTRACTOR	CONTRACTOR		REMOVAL BY GC		TILE AND GROUT	CONTRACTOR	CONTRACTOR		
	TEMPORARY SIGNS AND WINDOW GRAPHICS	CONTRACTOR	CONTRACTOR		REMOVAL BY GC		WATER FILTER	CONTRACTOR	CONTRACTOR		
	DEMISING PARTITIONS	CONTRACTOR	CONTRACTOR				SINK AND FAUCET	CONTRACTOR	CONTRACTOR		
	FRAMING AT DEMISING WALLS	CONTRACTOR	CONTRACTOR			11	COMPUTERS	SAVERS	SAVERS		COORDINATE WITH VENDOR
	GYPSUM BOARD TENANT SIDE	CONTRACTOR	CONTRACTOR			_	COMPUTER SYSTEM	SAVERS	SAVERS		COORDINATE WITH VENDOR
	PATCH AND REPAIR GYPSUM BOARD TENANT SIDE	CONTRACTOR	CONTRACTOR			_	TELEPHONE SYSTEM AND WIRING	SAVERS	SAVERS		
	UL PENETRATION CAULKING AT RATED ASEMBLIES	CONTRACTOR	CONTRACTOR				CASH REGISTERS	SAVERS	SAVERS		
3	CONCRETE SAW CUTTING AND PATCHING	CONTRACTOR	CONTRACTOR			12	MISCELLANEOUS	SAVERS	CONTRACTOR		
	CONCRETE FINISH SLAB	CONTRACTOR	CONTRACTOR			╛	ARTWORK	SAVERS	SAVERS		
	SLAB LEVELING AND REPAIR	CONTRACTOR	CONTRACTOR			4	BULLETIN BOARDS/MARKER BOARDS	SAVERS	SAVERS		
5	STRUCTURAL STEEL, JOISTS AND DECKING	CONTRACTOR	CONTRACTOR			4	SAFES AND DROP BOXES	SAVERS	SAVERS		SAFE BOLTED TO FLOOR BY GC
	STRUCTURAL METAL FRAMING	CONTRACTOR	CONTRACTOR				OFFICE FURNISHINGS	SAVERS	SAVERS		AS REQ'D BY APPLICABLE CODES AND LOCAL
	METAL STUDS, DRYWALL CHANNELS AND FURRING	CONTRACTOR	CONTRACTOR			15	FIRE PROTECTION/SPRINKLERS/ALARM SYSTEMS	CONTRACTOR	CONTRACTOR	YES	AUTHORITY HAVING JURISDICTION
	SHEET METAL BACKING/BLOCKING STRIPS	CONTRACTOR	CONTRACTOR			4	PLUMBING	CONTRACTOR	CONTRACTOR		
6	ROUGH CARPENTRY AND BLOCKING TELEPHONE AND ELECTRICAL BACK BOARDS	CONTRACTOR	CONTRACTOR		ALL WOOD TO BE FIRE RATED TREATED	4	HVAC DEMOLITION OF EXIST. EQUIP., CONTROLS AND	CONTRACTOR	CONTRACTOR		
	(PAINTED) BREAK ROOM CABINETS; OFFICE COUNTERTOP	CONTRACTOR	CONTRACTOR			4	DUCTWORK	CONTRACTOR	CONTRACTOR		
	DESKS	CONTRACTOR	CONTRACTOR		COORDINATE WITH MILLWORK VENDOR	-	CONTROL WIRING	CONTRACTOR	CONTRACTOR		
	PALLET RACKING/FIXTURE SEPARATOR WALL/BAZAAR BOOTHS	SAVERS	SAVERS		SEE NOTE #3	-	FINAL CONNECTIONS AND EQUIP. POWER	CONTRACTOR	CONTRACTOR		
	CUSTOM MILLWORK FOR SHOP FINISH	SAVERS	SAVERS		COORDINATE WITH MILLWORK VENDOR	4	SERVICE ACCESS AND ACCESS PANELS	CONTRACTOR	CONTRACTOR		
	STOREFRONT MILLWORK	SAVERS	SAVERS			-	EQUIPMENT IDENTIFICATION/STENCILING	CONTRACTOR	CONTRACTOR		
7	INSULATION	CONTRACTOR	CONTRACTOR			4.0	NEW AIR FILTERS AT TURNOVER	CONTRACTOR	CONTRACTOR		
	FIRESTOPPING	CONTRACTOR	CONTRACTOR	<u> </u>		16	ELECTRICAL (GENERAL)	CONTRACTOR	CONTRACTOR		
	FLASHING AND SHEET METAL JOINT SEALERS	CONTRACTOR	CONTRACTOR			┨	ELECTRICAL PANEL TRANSFORMER	CONTRACTOR	CONTRACTOR CONTRACTOR		
	EXIST. ROOF; INSTALL CURBS/JACKS, PATCH ROOF	EXIST.	CONTRACTOR		GC RESP. FOR PATCHING NEW ROOF	┨	LIGHT FIXTURES, TRACK HEADS AND HIGH BAY	CONTRACTOR	CONTRACTOR		COORDINATE WITH VENDOR
	NEW ROOFING	CONTRACTOR	CONTRACTOR		PENETRATIONS	┥	EMERGENCY LIGHTING	CONTRACTOR	CONTRACTOR		COORDINATE WITH VENDOR
	WATER PROOFING MEMBRANE AT RR AND MOP	CONTRACTOR	CONTRACTOR			┥	FIRE ALARM SYSTEM	CONTRACTOR	CONTRACTOR		CONDUIT BY GC. GC IS TO SET UP SYSTEM FOR
	SINK ROOF PENETRATIONS	CONTRACTOR	CONTRACTOR			┨	FIRE ALARIM STSTEM	CONTRACTOR	CONTRACTOR		MONITORING BY STANLEY. SEE NOTE #2.
8	STEEL DOORS AND FRAMES	CONTRACTOR	CONTRACTOR			┥	EMS	SAVERS	CONTRACTOR		CONDUIT BY GC. GC TO COORDINATE WITH
	WOOD DOORS	CONTRACTOR	CONTRACTOR			1			·		TELETROL
	IMPACT DOORS	CONTRACTOR	CONTRACTOR			-	GENERAL NOTE: ALL ITEMS LISTED ARE AS REQUIRI LISTED IN THIS SCHEDULE.	ED. CONTRACTOR	10 ASSUME RESPO	NSIBILITY FOR ALI	LITEMS REPRESENTED IN DRAWINGS AND NOT
	ACCESS DOORS	CONTRACTOR	CONTRACTOR	 	 	1	1. GC IS TO COORDINATE VCT DELIVERY SCHEDULE	AND PROVIDE ON S	SITE FORK LIFT WIT	H ADJUSTABLE FO	RKS TO UNLOAD VCT PALLETS. (2'-0" WIDE.
	STOREFRONT DOORS	CONTRACTOR	CONTRACTOR		<u> </u>	┨	1500 LBS PALLET)	- · · -		·	,
	FINISH HARDWARE	CONTRACTOR	CONTRACTOR			1	2. FIRE ALARM MONITORING CONTACT INFO:				
	GLASS AND GLAZING	CONTRACTOR	CONTRACTOR	<u> </u>		1	ACADEMY FIRE				
	STOREFRONT SYSTEM	CONTRACTOR	CONTRACTOR			1	KIM RANGEL: krangel@academyfire.com,	480-405-6907			
	FITTING ROOM MIRRORS	SAVERS	SAVERS			1	3. GC IS TO PROVIDE AND INSTALL ANCHORS INTO T		RED FOR THE PALL	ET RACKING, FIXTI	URE SEPARATOR WALL AND BAZAAR BOOTHS.
	WINDOW FILM	CONTRACTOR	CONTRACTOR			1	FIXTURE CONTRACTOR WILL INSTALL THE FIXTU	JRES.			

FURNISHED BY OWNER (FBO) ITEMS

CONTRACTOR CONTRACTOR

SAVERS HAS A NATIONAL ACCOUNTS ARRANGEMENT WITH THE MANUFACTURERS OF SPECIFIC EQUIPMENT AS LISTED ON DRAWINGS AND/OR IN SUBSEQUENT SPECIFICATION SECTIONS LABELED "FBO". SAVERS SHALL SUPPLY THIS MATERIAL/EQUIPMENT, WITH INSTALLATION AND ALL PROJECT MANAGEMENT FUNCTIONS BY THE CONTRACTOR. SAVERS SOLE INVOLVEMENT IS SUBMITTAL OF PURCHASE ORDER. THE CONTRACTOR SHALL COOPERATE WITH FBO VENDORS, AND SHALL BE RESPONSIBLE UNDER THIS SECTION TO PROVIDE SUPERVISION, EQUIPMENT, MATERIAL STORAGE AND HANDLING, AND WARRANTY FOR MATERIALS.

• CONTRACTOR SHALL PROVIDE ANY NON-FACTORY RELATED DEVICES AND ACCESSORIES REQUIRED TO SUPPORT, MOUNT, SET OR INSTALL THESE COMPONENTS.

• CONTRACTOR SHALL INCLUDE IN HIS PRICE, ALL LABOR AND EQUIPMENT RENTAL NECESSARY TO COMPLETELY INSTALL FIXTURES OR EQUIPMENT.

• RECEIPT OF SHIPMENT

OF ALL MATERIALS SUPPLIED BY FBO VENDOR.

• CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING, PROCESSING, ORDERING AND FOLLOWING SHIPMENT OF ALL CLAIMS. SUPPLEMENTAL ORDERS FOR REPLACEMENT OF SHORTAGES, DAMAGES OR CONCEALED DAMAGE MATERIALS MUST BE MADE TO THE SUPPLIER AND SAVERS WITHIN FORTY EIGHT (48) HOURS OF THE RECEIPT OF SHIPMENT AT THE JOB SITE.

• THE CONTRACTOR SHALL BE RESPONSIBLE FOR OFF LOADING, INSPECTION, COUNTING AND CHECKING SHORTAGES, STORAGE, PROTECTION AND INSURANCE

CONTRACTOR SHALL INSPECT ALL SHIPMENTS FOR DAMAGE AND SHALL NOTE ALL FOUND DAMAGE ON BILL OF LADING IN FRONT OF DELIVERY DRIVER.
 CONTRACTOR SHALL PROVIDE TO SAVERS CM PHOTOGRAPHIC DOCUMENTATION IN COMBINATION WITH THE BILL OF MATERIALS SHOWING CONDITION OF ALL DAMAGED MATERIALS.
 CONTRACTOR SHALL F-MAIL PICTURES OF DAMAGED MATERIALS TO FRO SUPPLIER CONTACT AND INCLUDE A LIST OF REPLACEMENT MATERIALS REQUIRED.

CONTRACTOR SHALL E-MAIL PICTURES OF DAMAGED MATERIALS TO FBO SUPPLIER CONTACT AND INCLUDE A LIST OF REPLACEMENT MATERIALS REQUIRED.
 ANY MATERIALS BROKEN OR LOST AFTER RECEIPT SHALL BE REPLACED AND THE BURDEN OF COST PLACED ON THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PROJECT SCHEDULE DELAYS RESULTING FROM MATERIALS BROKEN OR LOST AFTER RECEIPT.

CONTRACTOR SHALL CONTACT SAVERS CONSTRUCTION MANAGER TO DETERMINE WHETHER UNUSED MATERIALS WILL BE SHIPPED BACK TO THE FBO VENDOR OR IF OVERSTOCK MATERIAL IS TO REMAIN IN STORE FOR FUTURE MAINTENANCE STOCK.

 CONTRACTOR SHALL KEEP EQUIPMENT IN ORIGINAL SALEABLE CONDITION, AND PROPERLY IDENTIFIED PACKAGING. DAMAGED MATERIAL CANNOT BE SENT

BACK.

• THE CONTRACTOR SHALL COORDINATE THE PICK UP AND RETURN OF THE MATERIAL. (IF APPLICABLE)

• THE FBO VENDOR'S NATIONAL ACCOUNTS REPRESENTATIVE SHALL ARRANGE NECESSARY SHIPPING BACK TO MANUFACTURER (IF APPLICABLE).

• CONTRACTOR SHALL NOTIFY OWNER OF ALL FBO RETURNED MATERIALS. UPON RECEIPT OF THE RETURNED MATERIAL AT THE SPECIFIED LOCATION, THE MATERIAL SHALL BE INSPECTED TO VERIFY CATALOG NUMBERS, COUNTS AND CONDITION OF PRODUCT. RESTOCKING AND/OR HANDLING CHARGES SHALL BE DETERMINED AT THIS TIME AND THE REQUEST FOR CREDIT SHALL BE PROCESSED. SAVERS SHALL RECEIVE CREDIT FOR RESTOCKED MATERIALS AS DETERMINED PER THEIR NATIONAL ACCOUNT AGREEMENT.

• WARRANTY

• PERFORMANCE OF WARRANTY IS BY CONTRACTOR. CONTRACTOR IS REQUIRED TO INCLUDE ALL MANAGEMENT AND LABOR REQUIRED TO PERFORM WARRANTY WORK DURING WARRANTY PERIOD, WHETHER THE MATERIALS ARE FURNISHED BY GENERAL CONTRACTOR OR BY SAVERS.

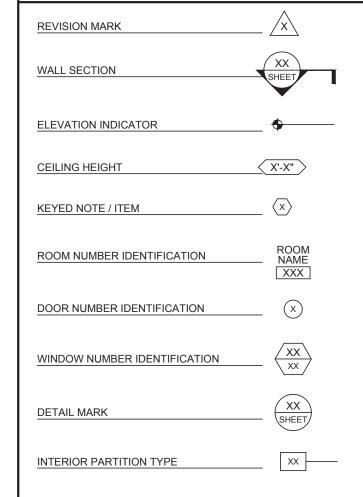
REQUIRED VENDORS

MATERIALS: IMPACT DOORS SUPPLIER: RICK BROWN (503) 551-7749 rbrown@senneca.com MATERIALS: INTERIOR & EXTERIOR PAINT SUPPLIER: SHERWIN-WILLIAMS, PURCHASED AT LOCAL STORE MATERIALS: LIGHT FIXTURES AND LAMPS SUPPLIER: AMY JENSEN AMERICAN WHOLESALE LIGHTING (AWL) 1725 RUTAN DRIVE LIVERMORE, CA 94551 PHONE: (510) 3252-5240 EMAIL: ajenson@awlighting.com MATERIALS: FIRE ALARM MONITORING SUPPLIER: KIM RANGEL ACADEMY FIRE PHONE: (480) 405-6907 EMAIL: krangel@academyfire.com CENTRAL STATION MANAGER MATERIALS: SITE AND BUILDING SIGNAGE SUPPLIER: LACEY POYNTER I.E. SIGNS 6528 SUPPLY WAY BOISE, ID 83716

BOISE, ID 83716
PHONE: (208) 338-9401
E-MAIL: lacey@iedesign.com

POLISHED CONCRETE:
MATERIALS: POLISHED CONCRETE & SEALED CONCRETE SUPPLIER: CENTIMARK CORPORATION
QUESTMARK FLOORING DIVISION
DOUGLAS MILLER
PHONE: (971) 277-6005
E-MAIL: doug.miller@centimark.com
GLOBAL ACCOUNTS MANAGER

SYMBOL LEGEND



PROJECT DIRECTORY

MECHANICAL/PLUMBING/ELECTRICAL ENGINEER GLEASON ENGINEERING 11400 SE 6TH STREET, SUITE 125 984 W. BAILEY RD BELLEVUE, WA 98004 NAPERVILLE, IL 60565 CONTACT: LUIS YABUT ENGINEER OF RECORD: MIKE GLEASON T: 734-637-8290 T: 630-946-6679 E: lyabut@savers.com : mgleason@gleasonengr.com SUBCONTRACTORS CAN SEND AN EMAIL REQUEST TO THE FOLLOWING MAILBOX TO REQUEST A GENERAL CONTRACTOR BID LIST: projectbidlist@savers.com ARCHITECT INTERPLAN LLC ONE EAST 22ND STREET. SUITE 400 LOMBARD, IL. 60148 ARCHITECT OF RECORD: JOSEPH WHALEN T: 630.932.2336 E: JWHALEN@INTERPLANLLC.COM STRUCTURAL BRITT PETERS

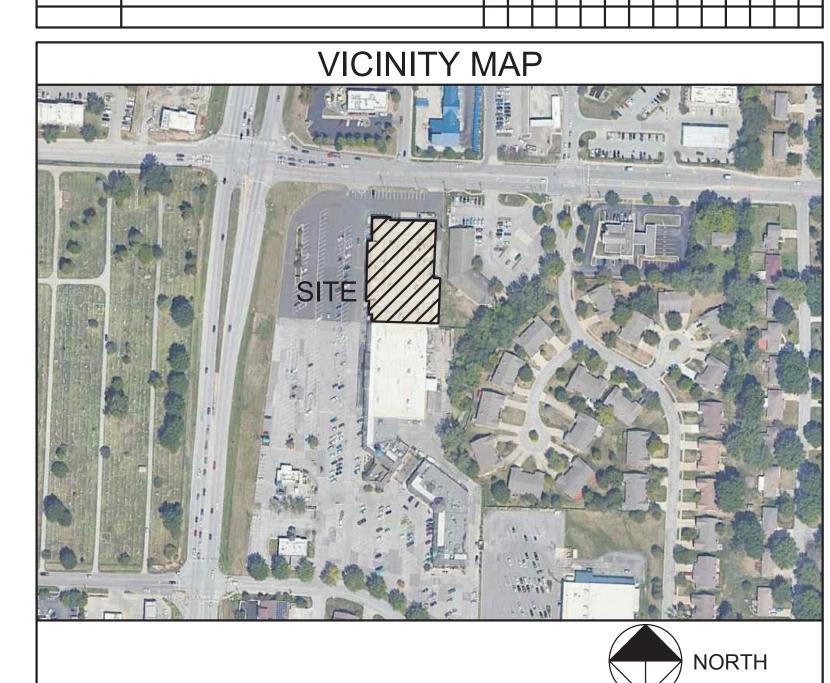
999 WATERSIDE DRIVE. SUITE 2202

ENGINEER OF RECORD: DENNIS ALTMAN

NORFOLK, VA 23510

T: 757.965.5710

E: DALTMAN@BRITTPETERS.com SHEET INDEX ISHT.NO. TITLE COVER SHEET DEMOLITION FLOOR PLAN FLOOR PLAN FIXTURE PLAN REFLECTED CEILING PLAN INTERIOR ELEVATIONS DOOR SCHEDULE, MISC. DETAILS FINISH AND PARTITION SCHEDULES, WARRANTY INFORMATION GENERAL NOTES EXISTING PARTIAL FOUNDATION PLAN AND DETAILS EXISTING ROOF FRAMING PLAN SECTIONS AND DETAILS SECTIONS AND DETAILS ELECTRICAL POWER PLANS EMERGENCY MANAGEMENT PLAN MECHANICAL AND PLUMBING SPECIFICATIONS MECHANICAL ROOF PLAN, SCHEDULES, DETAILS AND NOTES PLUMBING FLOOR PLAN. SCHEDULES, DETAILS AND NOTES



ABBREVIATIONS ACOUSTICAL CEILING NOT TO SCALE FOUNDATION **OUTSIDE DIAMETER** OVERFLOW ROOF DRAIN OPPOSITE ON CENTER **ANCHOR BOLT** FIRE RESISTANT TREATED PLAS. LAM. BLOCKING PLYWOOD REINFORCED BOT. BOTTOM GYPSUM WALL BOARD CONTR. CONTRACTOR ROUGH OPENING CONCRETE HOLLOW CORE SPRAY APPLIED FIRE RESISTIVE MATERIAL CONT. CONTINUOUS HORIZONTAI CONTROL JOINT HOLLOW METAL SUSPENDED CEILING HIGH POINT CONSTRUCTION MANAGER I.D.C. INSIDE DIMENSION CLEAR S.O.G. SLAB ON GRADE SPECIFICATIONS CONCRETE MASONRY INSIDE DIAMETER INSULATION INTERIOR TOP OF MASONRY JANITOR TOP OF STEEL
TOP OF PRE CAST DOUBLE T LAMINATE LAVATORY TOP OF CONCRETE TOPPING SLAB LOW POINT MANUFACTURER DTL/DET. DETAIL U.O.N. UNLESS OTHERWISE NOTED MAXIMUM E.W.C. METAL VINYL COMPOSITION TILE MINIMUM VERIFY IN FIELD MECH. MECHANICAL **EXISTING** MISCELLANEOUS WOOD

MOUNTED

MASONRY OPENING NOT IN CONTRACT

EQUIPMENT

ELEVATION

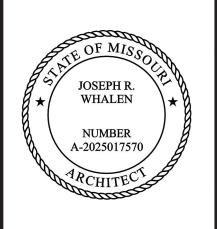
INTERPLAN INTERPLAN LLC

ARCH COA #2015008774
ENG COA #2005026904

ARCHITECTURE

1 EAST 22ND STREET, SUITE 400 LOMBARD, IL 60148 630.932.2336

ENGINEERING



JOSEPH R. WHALEN - ARCHITECT LIC. # A-2025017570

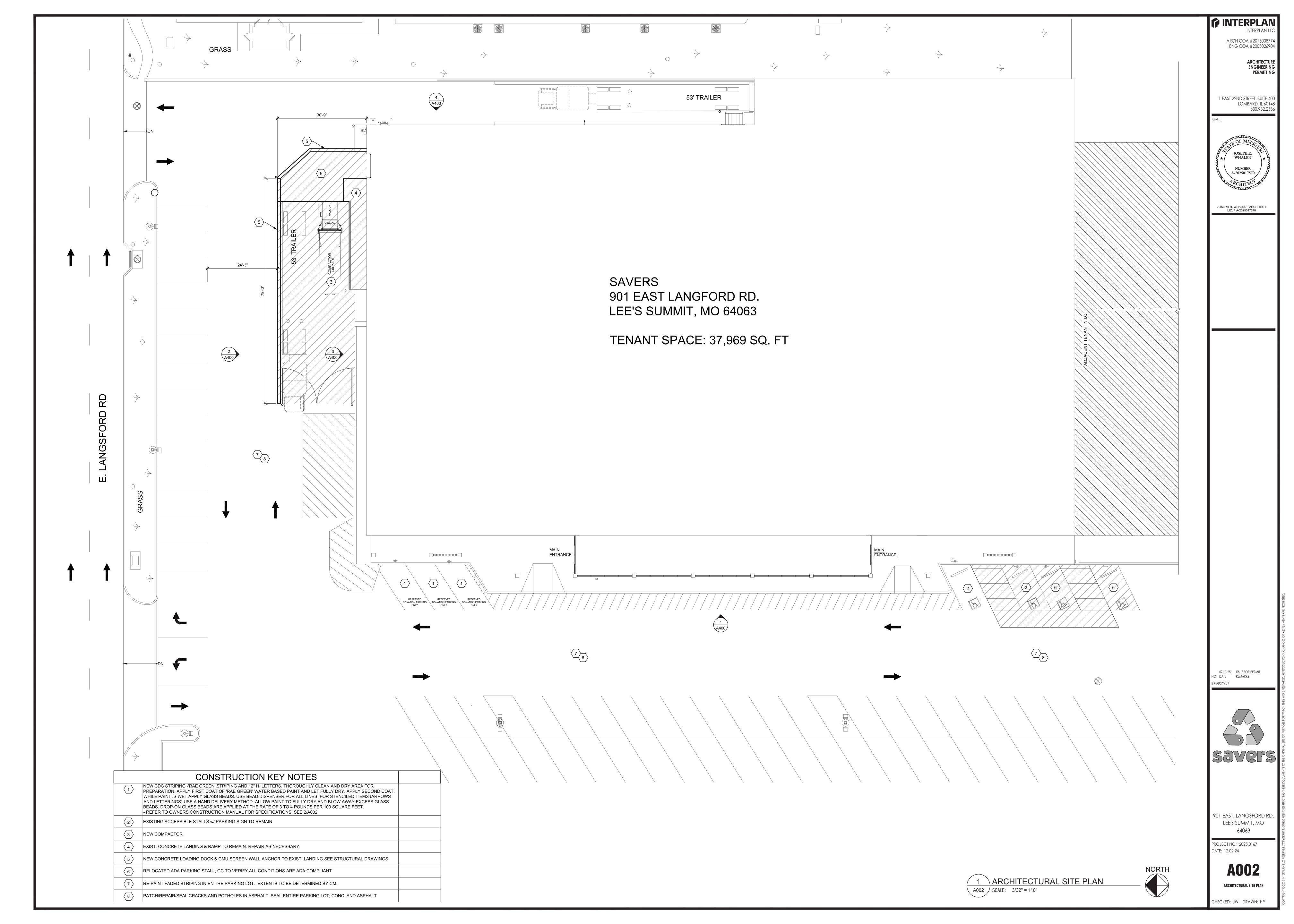
07.11.25 ISSUE FOR PERMIT IO DATE REMARKS



901 EAST. LANGSFORD RD. LEE'S SUMMIT, MO

64063 PROJECT NO: 2025.0167 DATE: 07.08.25

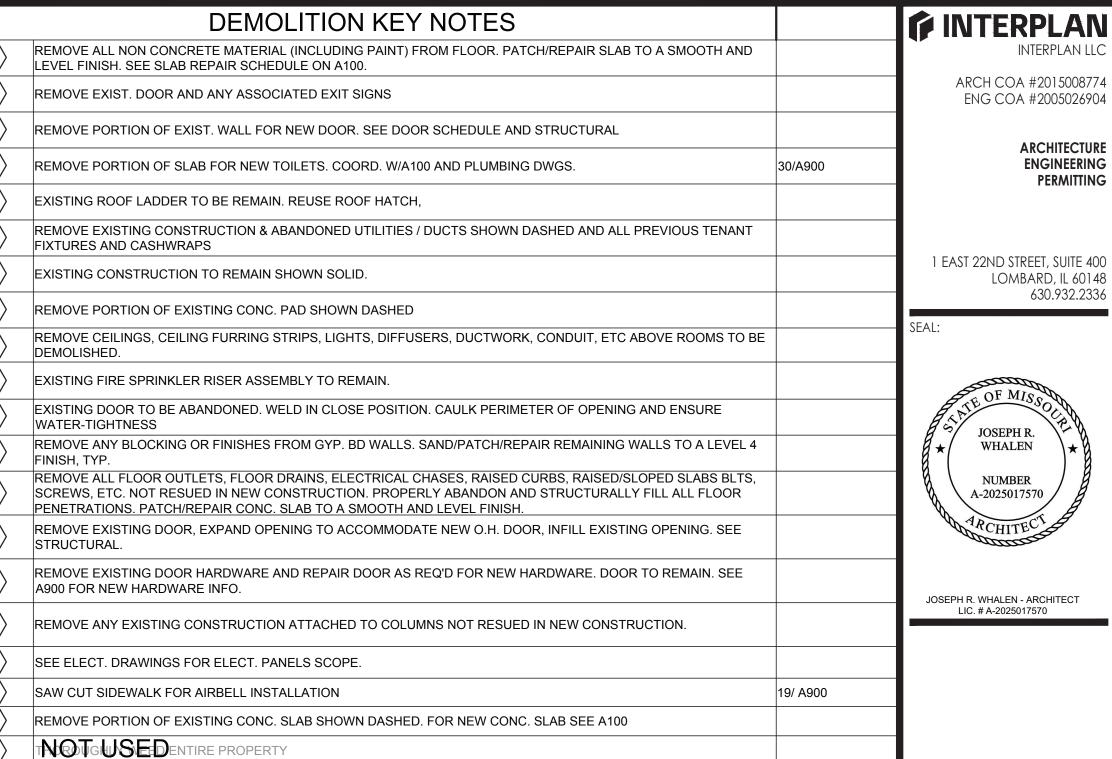
A001



	ITEM TO REMAIN ITEM TO BE DEMOLISHED/REMOVED	1. EXISTING THERMOSTATS TO REMAIN FOR USE WITH THE NEW FLOOR LAYOUT. SEE MECH FOR RELOCATION. 2. EXISTING SPRINKLER PIPING RISER AND ASSOCIATED PIPING TRIM/ACCESSORIES TO REMAIN. EXISTING SPRINKLER BACKFLOW DEVICES, PIV, AND FDC TO REMAIN. 3. EXISTING RTUS AND ASSOCIATED PIPING AND DUCTWORK TO REMAIN. EXISTING DROP BOX DIFFUSERS AND RETURNS TO REMAIN. 4. EXISTING ROOF DRAINAGE PIPING AND OVERFLOW PIPING TO REMAIN. 5. EXISTING DUCTWORK AND DIFFUSER/RETURN SERVING VESTIBULE TO REMAIN. 6. EXISTING GAS METER AND ALL GAS PIPING TO REMAIN INCLUDING THE METER AND BACKFLOW PREVENTER. 8. EXISTING WATER SERVICE AND PIPING TO REMAIN INCLUDING THE METER AND BACKFLOW PREVENTER. 9. DEMOLISH EXISTING OFFICE AREA DUCTWORK AND DUCT ACCESSORIES. 10. DEMOLISH EXISTING OFFICE AREA DUCTWORK AND DUCT ACCESSORIES. 11. DEMOLISH BACH CEILING MOUNTED DIFFUSER AND RETURN SERVING EACH EXISTING AREA WITH A CEILING THAT IS TO BE DEMOLISHED 12. DEMOLISH EACH CEILING MOUNTED DIFFUSER AND RETURN SERVING EACH EXISTING AREA WITH A CEILING THAT IS TO BE DEMOLISHED 12. DEMOLISH EACH SPRINKLER HEAD AND CAP EACH RELATED SPRINKLER BRANCH AT THE SPRINKLER MAIN FOR EACH AREA WITH A LAY-IN CEILING TO BE DEMOLISHED. RESTROOM AND SALES AREA SPRINKLER HEADS TO REMAIN. 13. REMOVE ALL EXISTING MECHANICAL, ELECTRICAL, AND PLUMBING FIXTURES, ACCESSORIES, AND CONDUIT NOT BEING USED IN NEW CONSTRUCTION.
	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	
a TYP.		TYP.
	TYP.	
TYP.		6
	6	
		1 DEMOLITION FLOOR PLAN A090 SCALE: 3/32" = 1'0" NORTH

LEGEND

DEMOLITION MECHANICAL AND PLUMBING NOTES



MOLITION GENERAL NOTES

REMOVE RAILING & REPLACE WITH NEW RAILING SEE 28/A900

CUT & REPLACE APPROX. 1,500 S.F. OF THE EXISTING SLAB, COORD. w/ SAVERS C.M.

PNOTFUSED

- ALL DEMOLITION WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH ALL APPLICABLE ORDINANCES AND CODES OF NORTH OLMSTEAD, OH, ALL LIFE-SAFETY CODES AND WITH ALL INDUSTRY STANDARDS PERTAINING TO THIS TYPE OF WORK.
- DEMOLITION SHALL BE PERFORMED BY A LICENSED AND INSURED COMPANY SPECIALIZING IN THIS TYPE OF WORK. CONTRACTOR SHALL PROVIDE EVIDENCE OF ALL REQUIRED FORMS OF INSURANCE AND LICENSES TO THE OWNER AND THE ARCHITECT PRIOR TO THE START OF ANY WORK. THE CONTRACTORS STAFF RESPONSIBLE FOR DEMOLITION SHALL BE EXPERIENCED IN THIS TYPE OF WORK. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ARCHITECT, IN WRITING, OF ALL SUBCONTRACTORS THAT HE HAS RETAINED AND PROVIDE EVIDENCE OF THE REQUIRED FORMS OF INSURANCE AND LICENSES. ALL EQUIPMENT USED FOR THE DEMOLITION PHASE SHALL BE OF A SUITABLE TYPE, IN GOOD WORKING CONDITION, AND OPERATED BY SKILLED MECHANICS.
- THE CONTRACTOR SHALL INSPECT THE BUILDING PRIOR TO THE START OF ANY WORK, SHALL FIELD VERIFY ALL OF THE EXISTING CONDITIONS AND SHALL PROVIDE MARKED UP DRAWINGS TO THE ARCHITECT DEPICTING DISCREPANCIES BETWEEN THE DRAWINGS AND THE ACTUAL CONDITIONS. THE LOCATIONS OF EXISTING CONDITIONS SHOWN ON THE DEMOLITION PLANS IS TO BE CONSIDERED AS APPROXIMATE. DEMOLITION CONTRACTOR SHALL REPORT ALL DISCREPANCIES TO THE ARCHITECT, IN WRITING, PRIOR TO THE START OF ANY DEMOLITION, OR BE RESPONSIBLE FOR SAME.
- THE DEMOLITION PLAN INDICATES THOSE IMPROVEMENTS ON THE SUBJECT PROPERTY WHICH ARE TO BE REMOVED IN THEIR ENTIRETY. THE DRAWINGS ARE TO BE USED AS A GUIDE TO ASSIST THE CONTRACTOR IN THE DEMOLITION PROCESS IN ADVANCE OF THE PERMANENT IMPROVEMENTS TO SERVE THE PROPOSED REMODEL. THE PLANS ARE NOT MEANT TO INCLUDE DETAILED SPECIFICATIONS AND/OR REQUIREMENTS FOR THE REMOVAL AND/OR DISPOSAL OF THE EXISTING BUILDING MATERIALS. MEANS AND METHODS ARE THE SOLE RESPONSIBILITY OF THE DEMOLITION CONTRACTOR, WHO, IN THE PERFORMANCE OF THE WORK, MUST FOLLOW ALL FEDERAL, STATE, COUNTY, AND LOCAL REQUIREMENTS FOR THE OPERATIONS AS SPECIFIED AND OUTLINED ON THE DEMOLITION PLANS.
- IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY THE OWNER. HAZARDOUS MATERIALS WILL BE REMOVED UNDER A SEPARATE CONTRACT AS DIRECTED BY THE OWNER.
- SALVAGE SHALL BECOME THE PROPERTY OF THE DEMOLITION CONTRACTOR, UNLESS OTHERWISE NOTED IN THE PLANS, AND THE VALUE OF WHICH SHALL BE TAKEN INTO CONSIDERATION AT THE TIME OF ESTABLISHING THE BID. PROMPTLY REMOVE ALL SALVAGED MATERIAL FROM THE CONSTRUCTION SITE AS THE WORK PROCEEDS.
- THE SCHEDULE FOR THE DEMOLITION PHASE SHALL BE COORDINATED WITH THE OWNER PRIOR TO THE START OF ANY DEMOLITION WORK. SUBMIT WRITTEN COPIES OF THE APPROVED SCHEDULE TO THE OWNER AND THE ARCHITECT FOR THEIR REVIEW AND APPROVAL WITHIN 5 WORKING DAYS OF THE EXECUTION OF THE CONTRACT FOR THIS PHASE OF THE WORK.
- THE STAGING AREAS INSIDE OR OUTSIDE THE BUILDING SHALL BE COORDINATED WITH THE OWNER. PROPER CARE AND SAFETY PRECAUTIONS SHALL BE UTILIZED IN SETTING UP THIS AREA. THE AREA SHALL BE FULLY SECURED AND SHALL BE WELL LIT TO DETER THEFT, VANDALISM AND OTHER MALICIOUS ACTS. SAFETY PRECAUTIONS, IN ACCORDANCE WITH INDUSTRY STANDARDS, SHALL BE MAINTAINED AT ALL TIMES.
- THE DEMOLITION CONTRACTOR SHALL PROTECT ADJACENT PROPERTIES AND THE PUBLIC FROM DAMAGE OR INJURY AT ALL TIMES DURING THE DEMOLITION PHASE. ALL EXISTING EXIT WAYS SHALL BE MAINTAINED AT ALL TIMES. THE INTEGRITY OF THE EXISTING EXIT WAYS, IE. FIRE RATINGS, EXIT WIDTHS, ETC. SHALL NOT BE COMPROMISED AT ANY TIME DURING THE DEMOLITION
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE ADJACENT STRUCTURES, APPURTENANCES AND CONSTRUCTION THAT ARE TO REMAIN, AND REPAIR ALL AREAS DAMAGED DURING THE DEMOLITION PROCESS TO MATCH THE ADJACENT SURFACES. ALL AREAS ACCESSIBLE TO THE PUBLIC SHALL BE RESTORED TO A BROOM CLEAN CONDITION AT THE END OF EACH WORK DAY. ANY DAMAGE TO EXISTING CONDITIONS THAT ARE TO REMAIN SHALL BE REPAIRED AT NO COST TO THE OWNER AND WITHOUT DELAY TO THE SCHEDULE.
- IN THE PROCESS OF REMOVING THE EXISTING WALLS, AND FLOOR CONSTRUCTION, THE DEMOLITION CONTRACTOR SHALL, AT ALL TIMES, PROTECT FROM DAMAGE ALL ROOF JOISTS, BEAMS, ROOF DECKING, FLOOR JOISTS, FLOOR DECKING, SLABS AND ANY RELATED COLUMNS THAT ARE REQUIRED TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE BUILDING AND THAT ARE TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL OF THE NECESSARY BRACING, SHORING AND SUPPORT REQUIRED TO MAINTAIN THE SAFETY AND INTEGRITY OF THE EXISTING STRUCTURE, FOR AS LONG AS REQUIRED BY THE GENERAL CONTRACTOR TO WHOM THIS CONTRACT MAY BE SUBORDINATED OR ASSIGNED TO.
- ALL SAW CUTTING OF FLOORS, WALLS, ETC TO BE PROPERLY MARKED AND CUT TO AVOID ANY SPALLED OR
- PRIOR TO THE CUTTING AND/OR REMOVING OF ANY UTILITY LINES (IE., ELECTRICAL, MECHANICAL, PLUMBING, TELEPHONE, GAS, FIRE SPRINKLER, ETC) THE DEMOLITION CONTRACTOR MUST VERIFY THE LOCATION AND SCOPE OF THE UTILITY LINES AND RELOCATE THE SAME. SEE ELECTRICAL, MECHANICAL, PLUMBING AND FIRE SPRINKLER DRAWINGS FOR MORE INFORMATION. THE CONTRACTOR SHALL PROPERLY NOTIFY THE OWNER AND A MINIMUM OF 48 HOURS IN ADVANCE BEFORE PROCEEDING WITH ANY WORK ON THE UTILITY LINES.
- REMOVE EXISTING CONCRETE SLAB AND FOUNDATIONS AS INDICATED ON THE FLOOR PLAN. PROVIDE SHORING DURING DEMOLITION AND BUILDING CONSTRUCTION AT AREAS WHERE EXISTING RETAINING WALLS ARE TO BE REMOVED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ANY AND ALL HOLES, OBSTRUCTIONS, ETC. CREATED IN THE EXISTING WALLS THAT ARE TO REMAIN DURING THE DEMOLITION PROCESS. ANY FIRE STOPPING REMOVED SHALL BE PROPERLY REPLACED. ALL FIRE RATED WALLS TO MEET RATING REQUIREMENTS.
- CONTRACTOR SHALL REMOVE ALL TRIM, FIXTURES, FURNISHINGS, DISPLAYS, POD ROOMS, MILLWORK AND MISCELLANEOUS ITEMS WITHIN THE SPACE THAT ARE NOT SHOWN TO REMAIN (SEE THE PROPOSED FLOOR PLAN).
- SEE ELECTRICAL DRAWINGS PRIOR TO REMOVAL OF WIRING DEVICES, LIGHT FIXTURES, CONDUIT AND WIRE, AS NOTED.
- ALL DEMOLITION WORK RELATING TO ELECTRICAL, TELEPHONE & FIRE ALARM SHALL BE PERFORMED ONLY BY A LICENSED ELECTRICAL
- CONTRACTOR, AND IN STRICT CONFORMANCE WITH THE LATEST EDITION OF THE NEC AND ANY LOCAL AMENDMENTS. REMOVE EXISTING BUILDING AND DIRECTIONAL SIGNAGE. REPAIR SURFACE FROM REMOVAL AND PAINT TO MATCH EXISTING.
- REMOVE ALL OUTLETS THROUGHOUT THAT ARE NOT SHOWN TO BE REUSED. REMOVE TO DECK AND PATCH GYP. BD. AS REQUIRED.
- ALL EXIST. DATA, VOICE, SECURITY AND VIDEO CABLING, SPEAKERS AND CAMERA/CAMERA PODS TO BE REMOVED COMPLETELY. PROVIDE NEW TEMPORARY ENCLOSURES AT OPENINGS IN BUILDING WALLS EXPOSED BY DEMOLITION. TEMPORARY ENCLOSURES SHALL BE CONSTRUCTED OF 2 X 4 FIRE RETARDANT TREATED WOOD STUDS AT 16" O.C. WITH 1/2" CDX PLYWOOD EACH
- SIDE OF STUD WALL. FIT ENCLOSURE TO EXISTING OPENING AND SEAL WITH SEALANT AROUND PERIMETER OF ENCLOSURE.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF DEMOLISHED MATERIALS.
- CONTRACTOR SHALL PROVIDE TEMPORARY RAILING/BARRICADE @ ALL SLAB OPENINGS. BARRICADES SHALL MEET OR EXCEED OSHA REQUIREMENTS.
- FOR THE PROTECTION OF THE PUBLIC, CONTRACTOR SHALL PROVIDE BARRICADES, PLASTIC SHEETS, ETC.
- THE CONTRACTOR'S WORK SHALL BE COMPLETED IN A MANNER TO CREATE A MINIMAL AMOUNT OF DUST. ALL OPENINGS AND DUCTWORK LOCATED IN AREAS OF DEMOLITION SHALL BE PROPERLY SEALED OFF SO AS NOT TO PERMIT DUST TO INFILTRATE THE HVAC SYSTEM OR ADJACENT SPACES.
- THE DEMOLITION CONTRACTOR SHALL VERIFY COMPLETE DEMOLITION CONDITIONS AND REPORT FINDINGS TO THE ARCHITECT BEFORE REMOVING HIS EQUIPMENT FROM THE PREMISES. THE CONTRACTOR SHALL TURN THE PREMISES OVER TO OWNER AT THE END OF THE DEMOLITION PHASE IN BROOM CLEAN CONDITION AND SHALL REMOVE ALL MATERIALS AND EQUIPMENT UTILIZED IN

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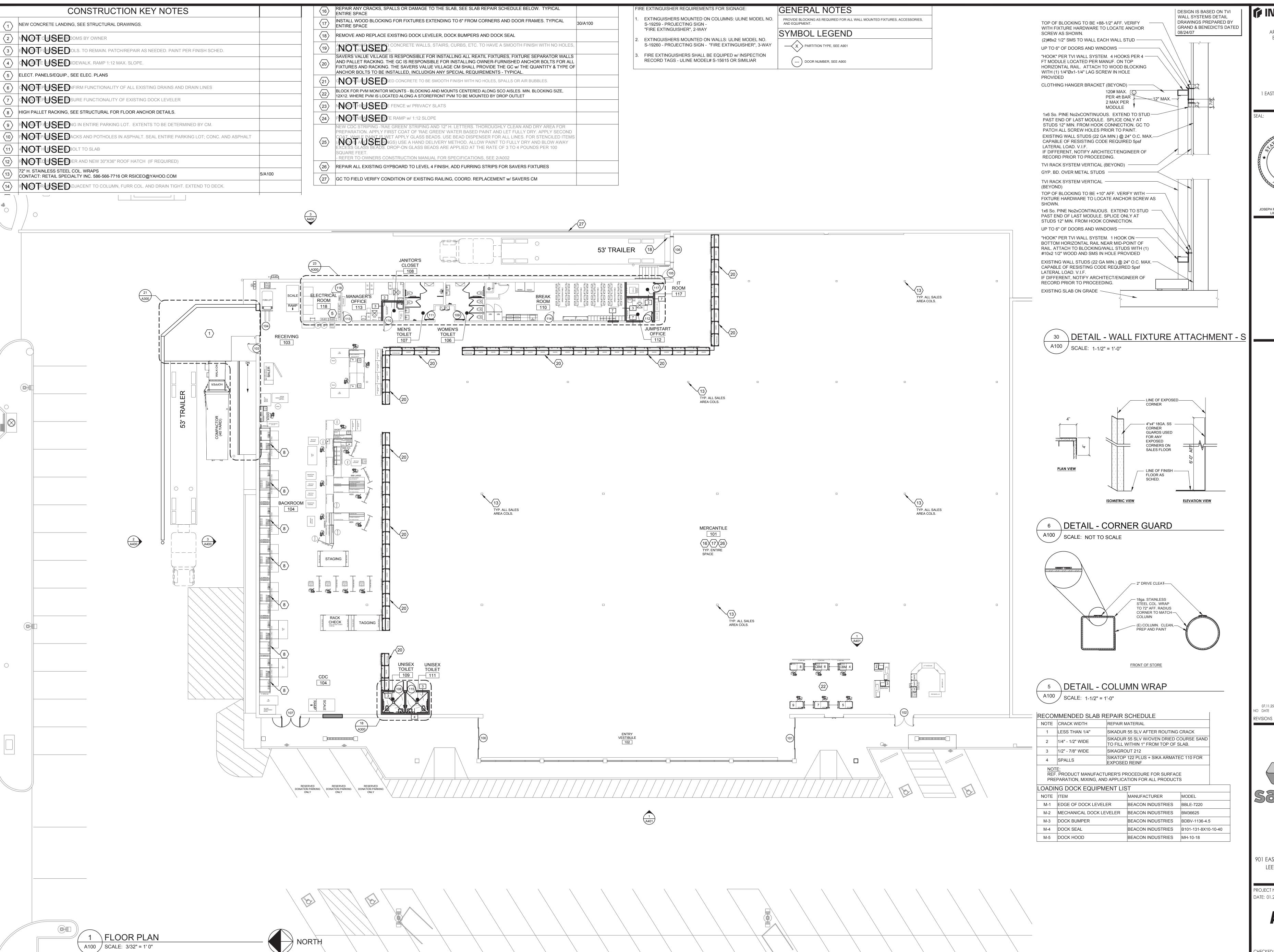


901 EAST. LANGSFORD RD. LEE'S SUMMIT, MO

PROJECT NO: 2025.0167 DATE: 01.29.24

64063

DEMOLITION FLOOR PLAN



INTERPLAN INTERPLAN LLC

ARCH COA #2015008774 ENG COA #2005026904 ARCHITECTURE

ENGINEERING

1 EAST 22ND STREET, SUITE 400 LOMBARD, IL 60148 630.932.2336



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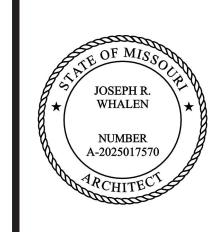
A100

INTERPLAN INTERPLAN I C

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901 EAST. LANGSFORD RD. LEE'S SUMMIT, MO

64063 COJECT NO: 2025.0167

PROJECT NO: 2025.0167 DATE: 07.08.25

A101

FIXTURE PLAN

1 FIXTURE PLAN
A100 SCALE: 3/32" = 1'0"

NORTH C

	CONSTRUCTION KEY NOTES	
1	ACT CEILING; EXIST. CEILING TILE TO REMAIN. REPLACE TILES AS NECESSARY, COORD. W/ SAVERS CM, APPROX. 30% OF THE TILES TO BE REPLACED.	
2	LIGHTING MOUNTING HEIGHTS SHALL BE AS FOLLOW: ALL HI-BAY FIXTURES TO BE 18'-0" A.F.F.; STRIP FIXTURES FOR MERCANTILE (a & b), WALL-WASH (c) AND BACKROOM SORTING, GRADING AND WORKSTATION LIGHTING (f) TO BE 14'-6" A.F.F.; STRIP FIXTURES FOR BACKROOM GENERAL LIGHTING (d & e)TO BE AS HIGH AS UNIFORMLY POSSIBLE (TO A MAX. HEIGHT OF 16'-0"). CONTRACTOR SHALL CONFIRM LIGHTING HEIGHTS & CIRCUITING w/ THE SAVERS VALUE VILLAGE cm - TYPICAL.	ELECTRICAL
3	GYP. BD. CEILING	
4	AIR CURTAIN	MECHANICAL
5	PERFORM THOROUGH HIGH DUST OF ROOF DECK, ROOF STRUCTURE, DUCTWORK ETC. AT AREAS OF OPEN CEILING	
6	PERIMETER WALL WASH FIXTURES	ELECTRICAL
7	PNOTHUSED	
8	SNOTURES DED IN COMPACTOR ENCLOSURE	
9	SOFFIT @ 13'-8"	
(10)	NEW HEADER. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFO.	

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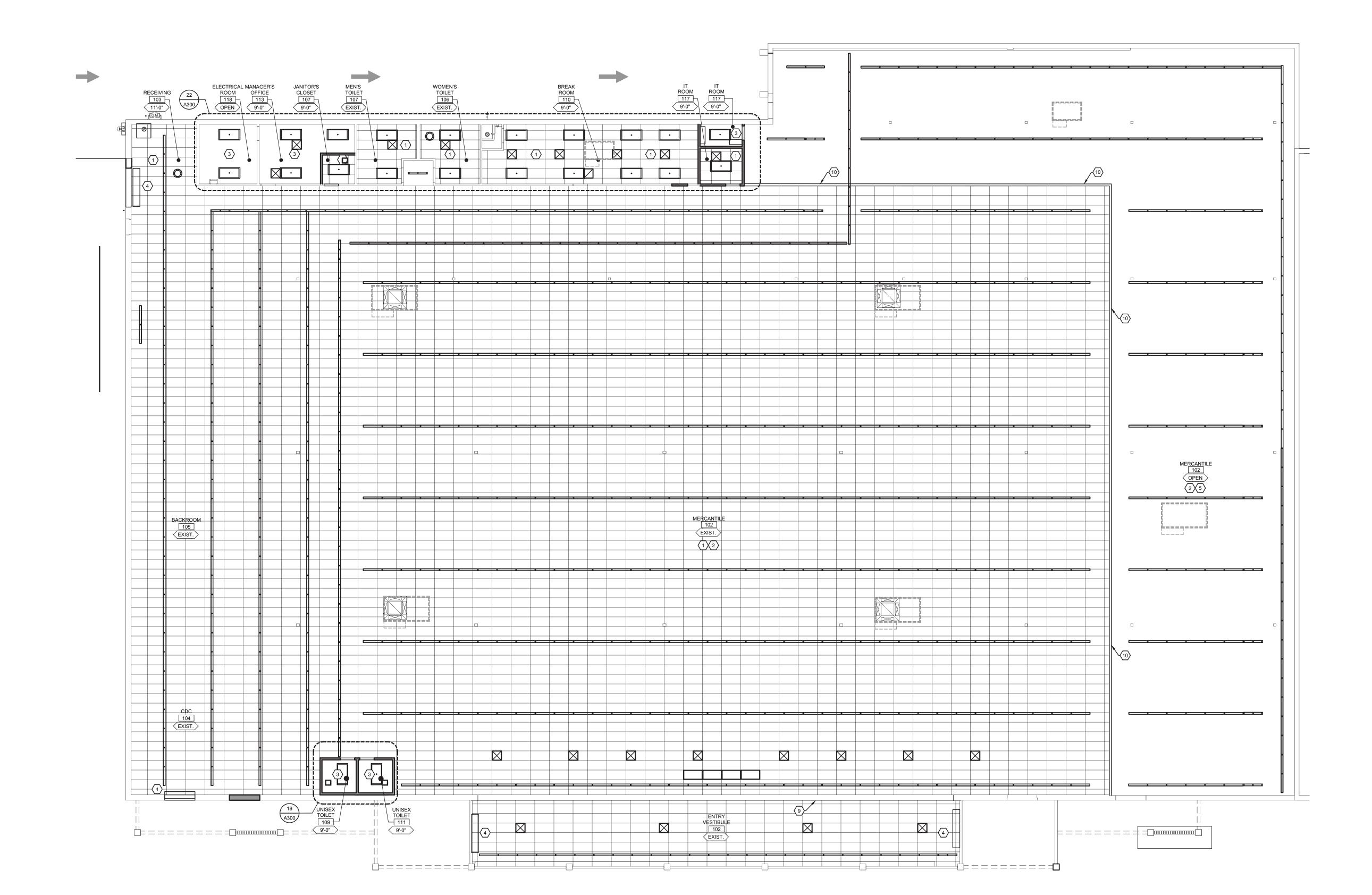
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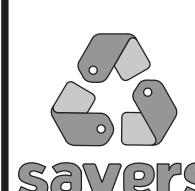
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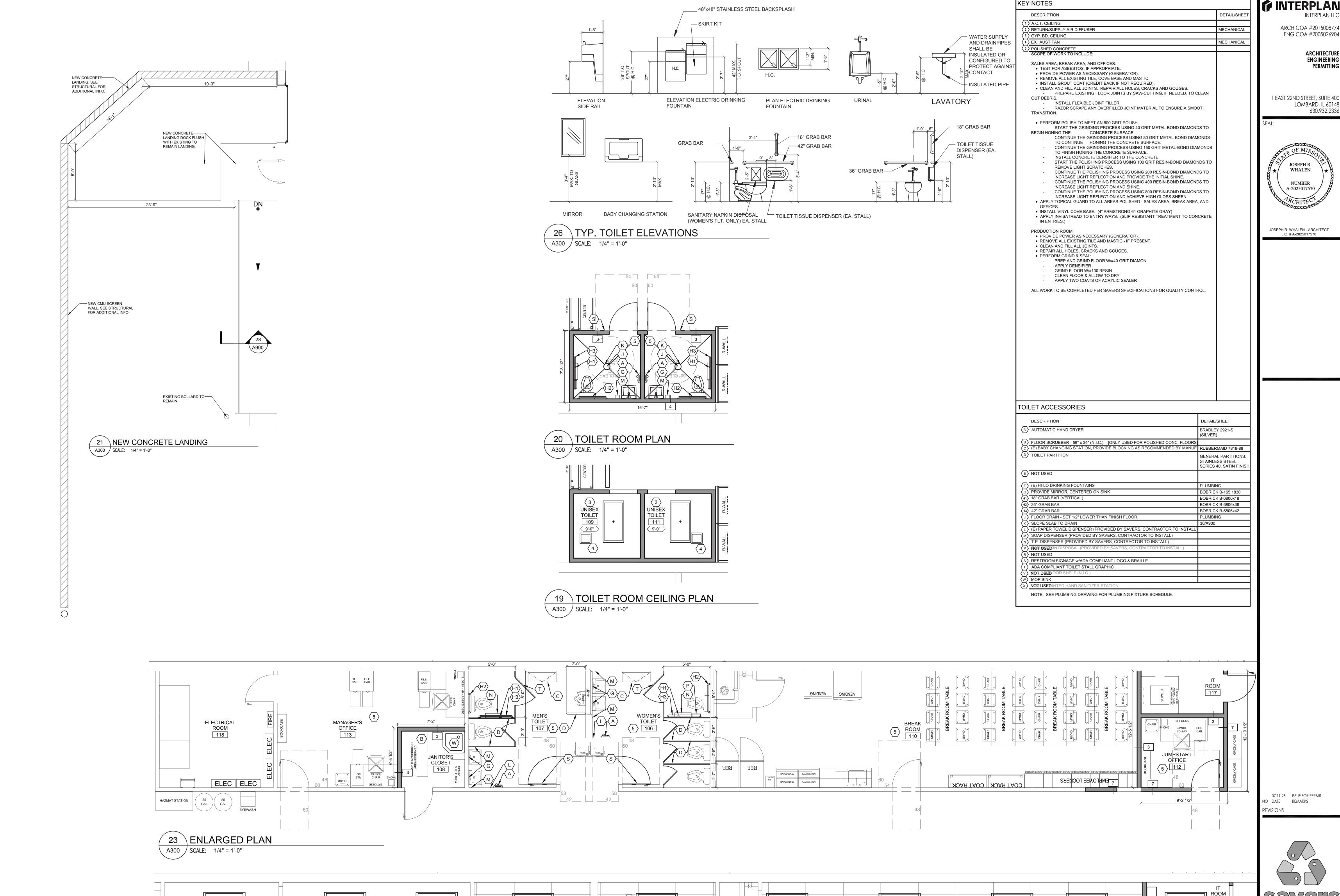
DATE: 07.08.25

A200

REFLECTED CEILING PLAN

1 FLOOR PLAN
A200 SCALE: 3/32" = 1'0"





MEN'S
TOILET
107
EXIST.

JANITOR'S CLOSET 108 9'-0"

2

WOMEN'S
TOILET

106
EXIST.

2

1

2

BREAK ROOM 110 9'-0"

2

2

JUMPSTART OFFICE 112

2

MANAGER'S OFFICE 113 9'-0"

ELECTRICAL ROOM 118 OPEN

22 ENLARGED CEILING PLAN
SCALE: 1/4" = 1'-0"

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NUMBER

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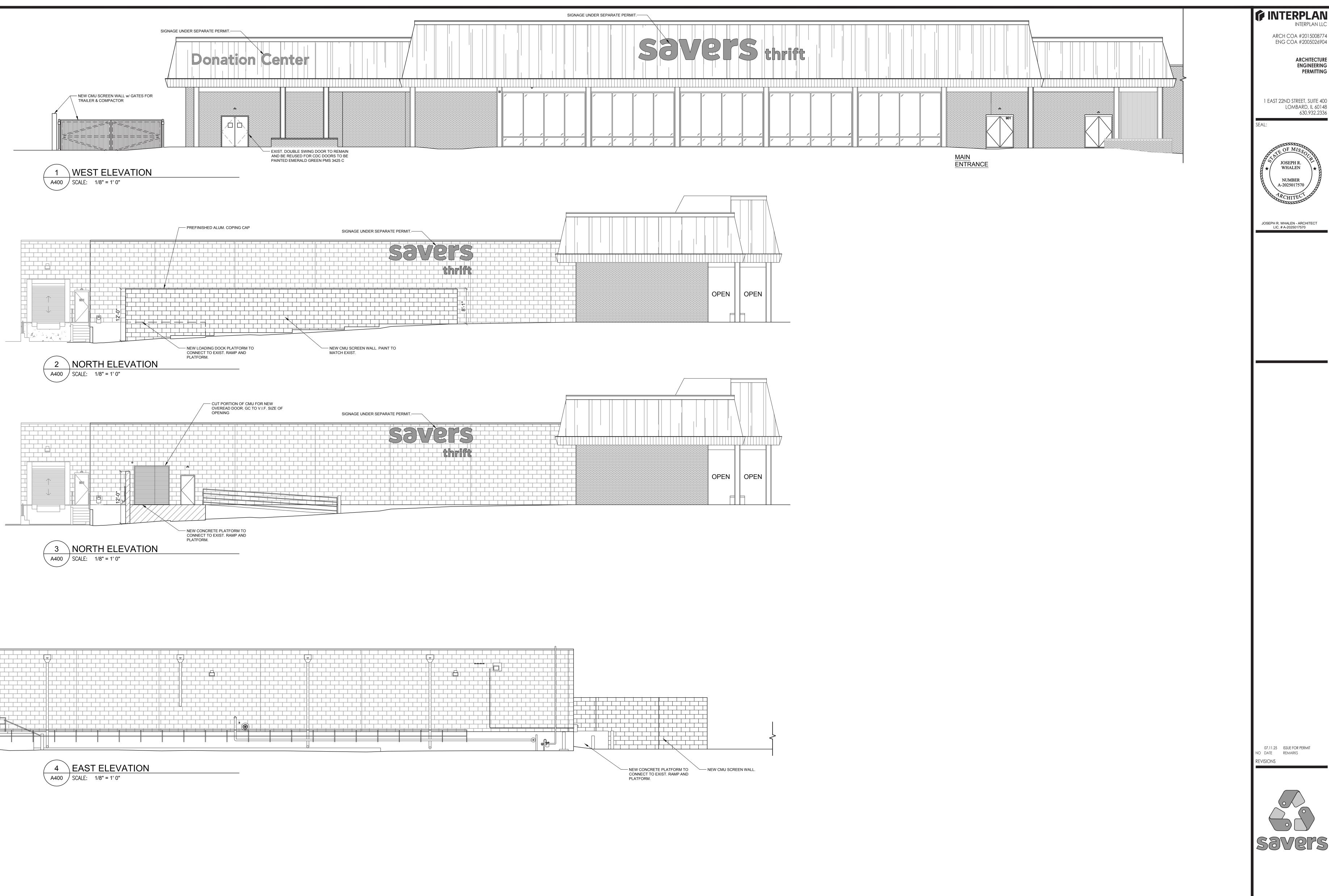
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A300

ENLARGED FLOOR PLANS



INTERPLAN

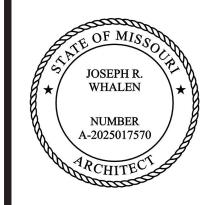
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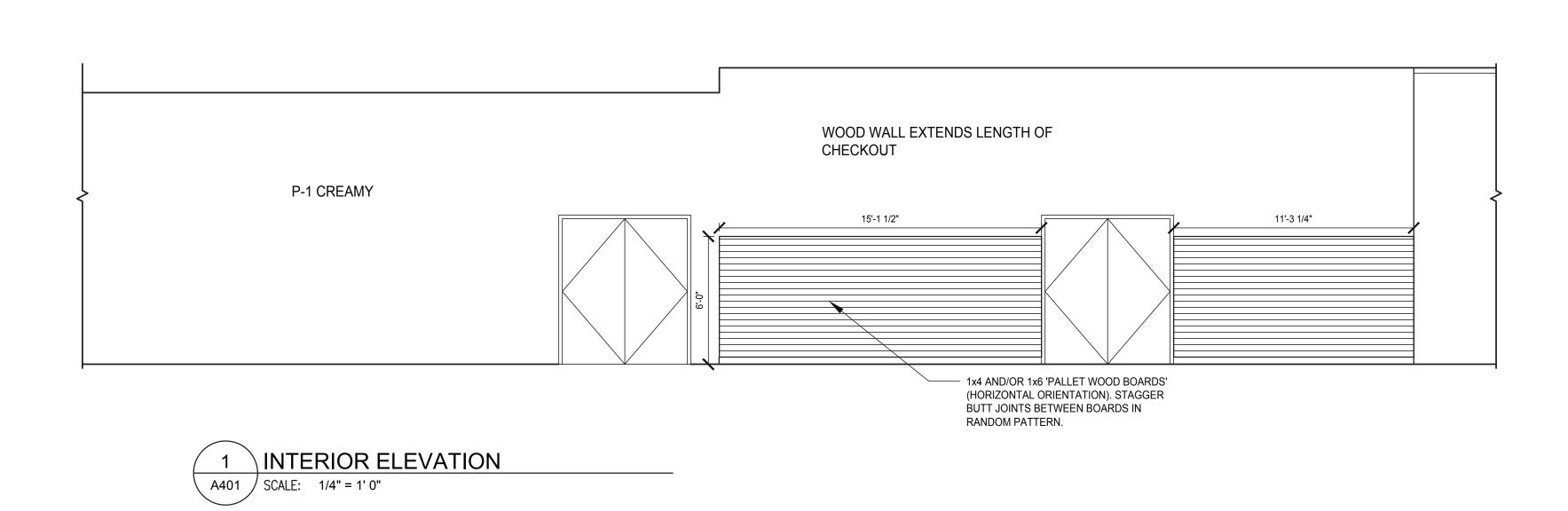


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A400

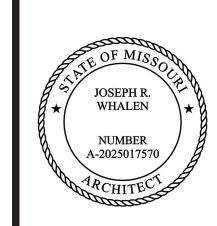


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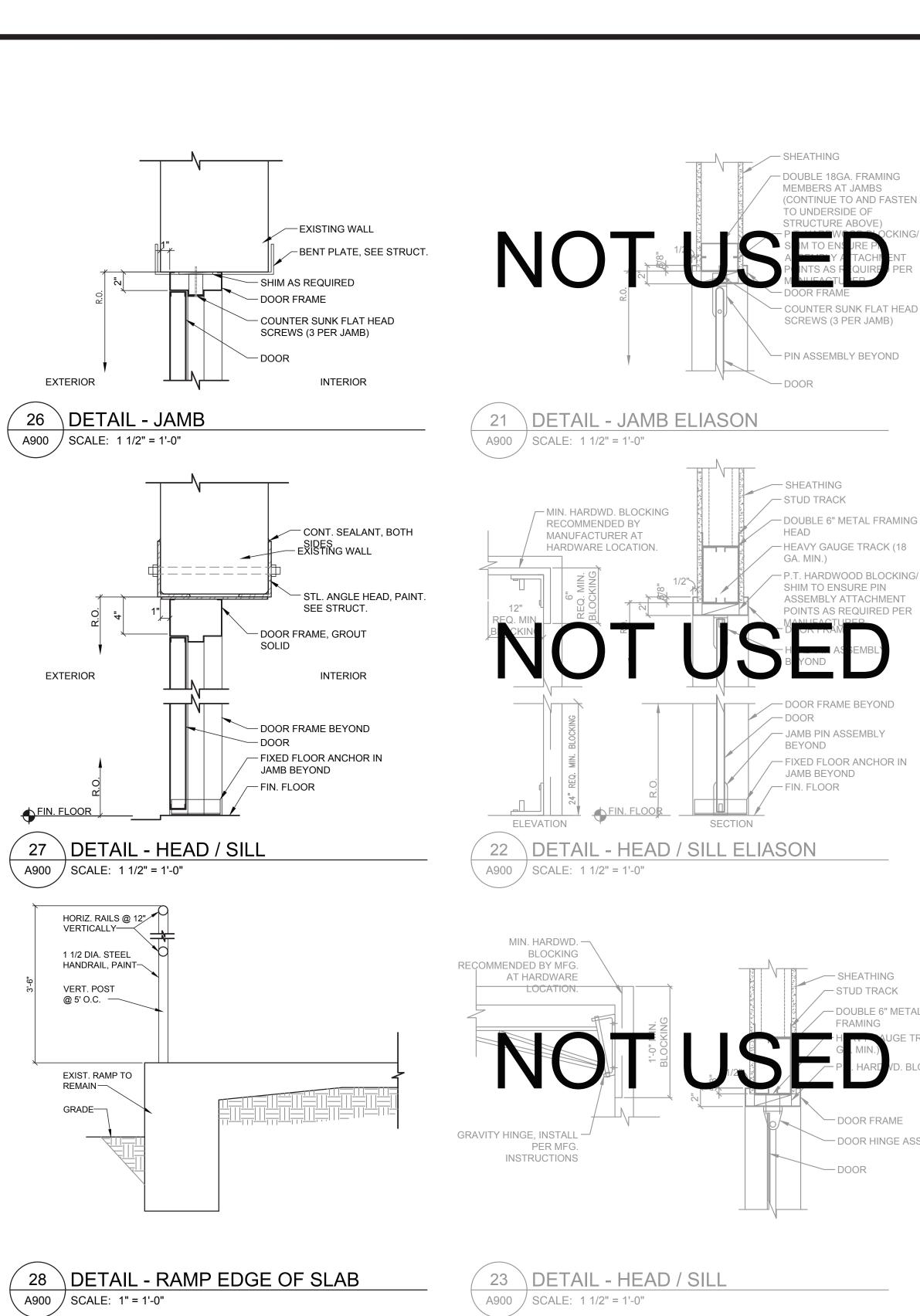
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DATE: 07.08.25



- 12"x24" VIEW WINDOW

VERIFY WITH DOOR

MANUF. ACTUAL SIZES

WITH SECURITY

GLAZING.

AVAILABLE

TO REMAIN

O.C. EPOXY INTO

GREASED SLEEVE IN NEW SLAB. CENTER

EXIST. SLAB & SET INTO

- COMPACTED EARTH, MIN.

95% PROCTOR.

29 OVERHEAD DOOR

___ x __ x __ x __ x __ x __

A900 / SCALE: 1/4" = 1'0"

NEW 4"(MIN.) 4,000 PSI CONC.w/10x10-W1.4xW1.4 W.W.F. SLOPE TO DRAIN (MAX. 1/2"

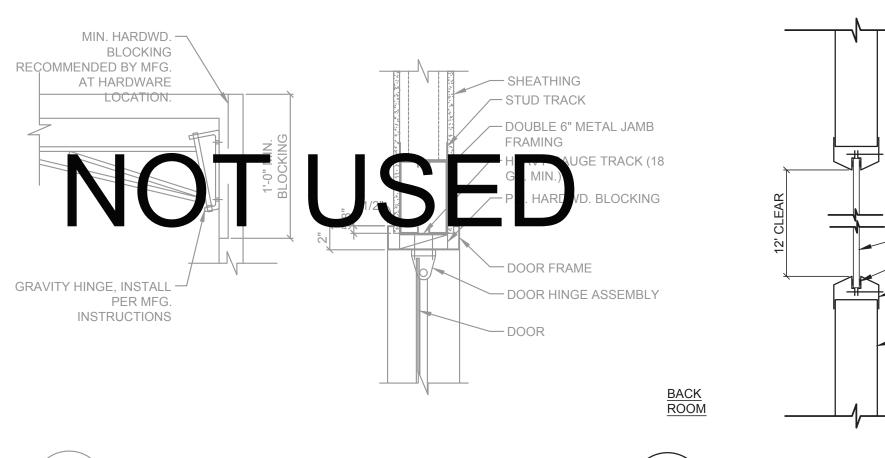
SEE PLUMBING DWG. FOR F.D.

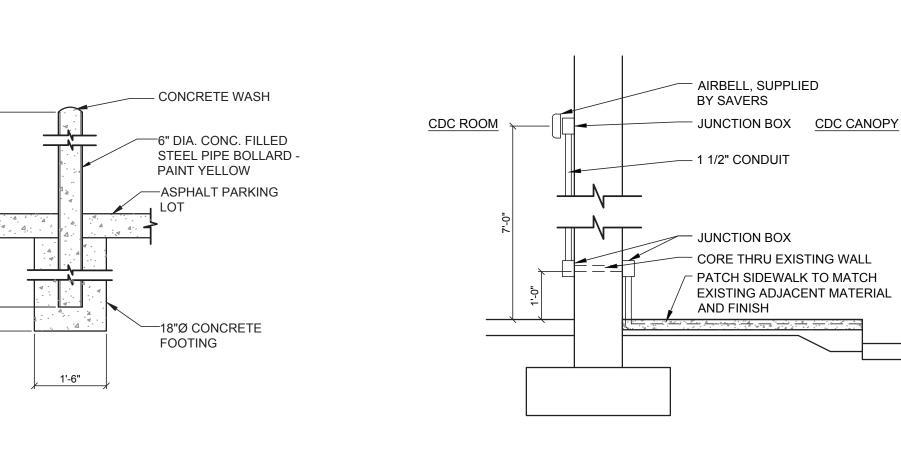
STONE BASE & VAPOR -BARRIER TO MATCH

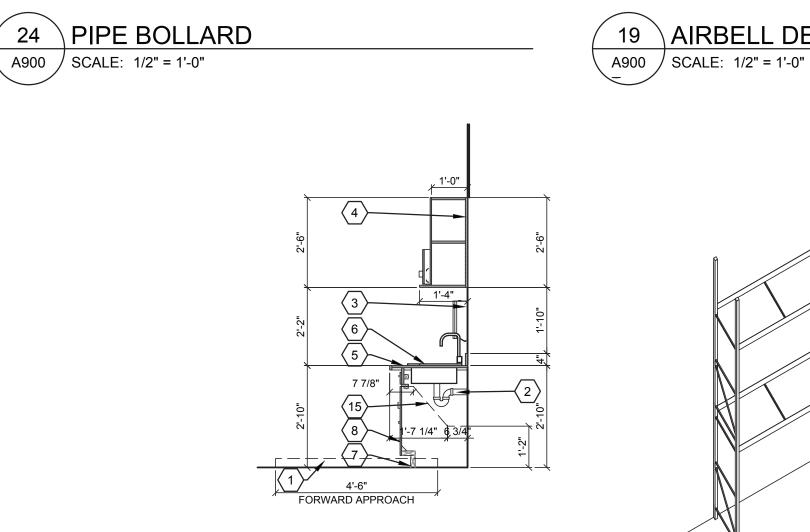
A900 / SCALE: 1" = 1'-0"

FROM FARTHEST POINT

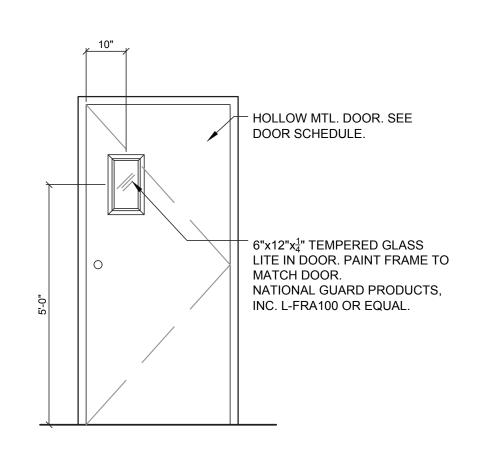
ELEVATION.







7 7/8" 1 4'-6" FORWARD APPROACH	Mund Wash Hughin 144 TYPICAL UPPRI
5 BREAK ROOM SECTION	10 PALLET RACKING - REFERENCE ON
A900 SCALE: 3/16" = 1' 0"	A900 SCALE: NONE



11 GLASS LITE DETAIL A900 / SCALE: 1/2" = 1'-0"

- SHEATHING

- PARTITION FRAMING

(DOUBLE UP FRAMING

MEMBERS AT JAMBS)

COUNTER SUNK FLAT HEAD

SCREWS (3 PER JAMB)

- SHIM AS REQUIRED

- DOOR FRAME

- STUD TRACK

- SHEATHING

DOOR FRAME

— DOOR FRAME BEYOND

FIXED FLOOR ANCHOR IN

JAMB BEYOND

—— 1/4" TEMPERED GLASS

— DOOR LITE FRAME, NGP

— H.M. DOOR

— BUTYL SEALANT, EA. SIDE

L-FRA100. PAINT TO MATCH

- FIN. FLOOR

— DOUBLE 6" METAL FRAMING

16 DETAIL - JAMB

\DETAIL - HEAD / SILL

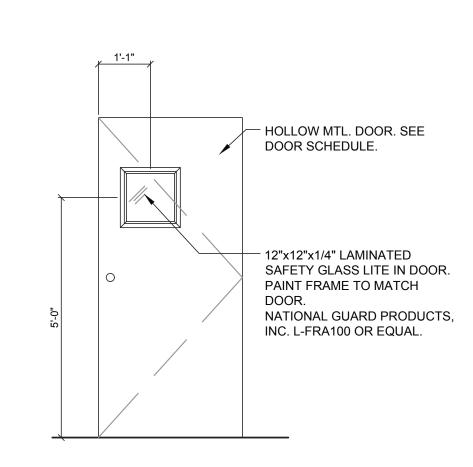
18 DETAIL - DOOR LITE

male 19 ackslash AIRBELL DETAIL

A900 / SCALE: 3" = 1'-0"

A900 / SCALE: 1 1/2" = 1'-0"

A900 / SCALE: 1 1/2" = 1'-0"



12 GLASS LITE DETAIL - CDC A900 / SCALE: 1/2" = 1'-0"

BREAKROOM ELEV. KEYED NOTES

- 〈 1 〉 54" x 36 1/4" FORWARD APPROACH FOR BARRIER FREE ACCESS
- ⟨ 2 ⟩ WATER SUPPLY & DRAIN PIPING TO BE INSULATED
- 3 FRP ABOVE BACKSPLASH
- 4 > 12" DEEP WHITE MELAMINE CABINETS w/ ADJUSTABLE WHITE SHELVES. REPLACE GYPSUM BOARD BEHIND CABINETS WITH SOLID WOOD BLOCKING AND PLYWOOD TO MATCH EXISTING FINISH FACE.
- 5 PLASTIC LAMINATE COUNTERTOP w/ COVE BACKSPLASH. FORMICA 7813-58 CARDBOARD SOLIDS.
- 6 SINK (SEE MECHANICAL)
- $\langle 7 \rangle$ CABINET BASE
- ⟨ 8 ⟩ WHITE MELAMINE BASE CABINETS w/ ADJUSTABLE WHITE SHELVES.
- 9 MICROWAVES BY OWNER
- 10 PAPER TOWEL DISPENSER
- $\langle 11 \rangle$ SOAP DISPENSER
- $\langle 12 \rangle$ 16" MICROWAVE SHELF
- $\langle 13 \rangle$ ADA BASE SINK CABINET
- (14) WHITE MELAMINE MICROWAVE BASE CABINET W/ DRAWERS
- $\langle 15 \rangle$ Line of Barrier free Clearance under Cabinet

4	5 A900 9
2'-6"	1-2" 1-3" 1/4"
2-2"	2'-0 7/8" 5
2'-6"	
4	3'-4" ADA

DOOR & FRAME SCHEDULE FRAME FINISH HEAD DETAIL JAMB DETAIL SILL DETAIL LOCATION DOOR MATERIAL DOOR FINISH HARDWARE CLEAR ANOD ALUM 100 VESTIBULE (E) ALUM. (E) ALUM. EXIST. ALUM CLEAR ANOD. CLEAR ANOD. (E) ALUM. (E) ALUM. EXIST. EXIST. VESTIBULE ALUM (E) H.M. SALES PAINT 6'-0" X 7'-0" H.M. PAINT H1 (E) H.M. PAINT PAINT H10 3'-0" X 7'-0" 103 COMPACTOR H.M. (N) OVERHEAD RECEIVING 8'-0" X 9'-0" H.M. 29/A900 (E) HM PAINT 3'-0" X 7'-0" PAINT H1 RECEIVING H.M. RECEIVING (E) OVERHEAD PAINT EXIST. CDC (N) HM PAINT 6'-0" X 7'-0" H.M. PAINT 27/A900 26/A900 27/A900 12/A900 H8 (N) HM PAINT PAINT 17/A900 108 UNISEX TOILET 3'-0" X 7'-0" 16/A900 17/A900 H6A H.M. WOMEN'S PAINT 3'-0" X 7'-0" H.M. PAINT H6 **JANITOR** (E) HM PAINT 3'-0" X 7'-0" PAINT H.M. H4 MEN'S (N) HM PAINT 3'-0" X 7'-0" H.M. PAINT H6 (N) HM 16/A900 JUMP START PAINT 3'-0" X 7'-0" H.M. PAINT 17/A900 17/A900 H3 (E) HM PAINT 3'-0" X 7'-0" PAINT Н3 MANAGER H.M. PAINT 3'-0" X 7'-0" PAINT H11 H.M. BREAKROOM PAINT UNISEX TOILET 3'-0" X 7'-0" PAINT 17/A900 16/A900 17/A900 H6A H.M.

PAINT

1, 9 & 10 1, 9 & 10 1 & 9 9, 11, & 13 1, 6, & 9 1, 6, & 9 3 & 11 PAINT 3'-0" X 7'-0" H.M. PAINT 17/A900 16/A900 17/A900 11/A900 H3

JOSEPH R. WHALEN NUMBER A-2025017570

INTERPLAN

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ENG COA #2005026904

ARCHITECTUR

ENGINEERING

PERMITTING

JOSEPH R. WHALEN - ARCHITECT LIC. # A-2025017570

		DOOR H	HARD	WAI	RE LEGEND		
H1	GENERAL EXTERIOR I HINGES: EXIT DEVICE: CORE CYLINDER: DOOR CLOSER: WEATHER STRIPPING DOOR SWEEP: SECURITY ASTRAGAL THRESHOLD: (N&E) DRIP CAP:	1-1/2 PR, HAGER BB1191 X 626 X NRP (OR EQUAL) DETEX V40xEB BEST 1E74 SARGENT 1331 JP9 EN SINGP 2525 B NGP 200SA SINGP 1392 SP NGP 896 BUMPER THRESHOLD NGP 16A	(N&E) (N&E) (N&E) (N&E) (N&E) (N&E) (N&E) (N&E)	Н8	EXIT ALARM: DOOR CLOSER: WEATHER STRIPPING SECURITY ASTRAGAL: GRAVITY COORDINATO (N&E)	3 PR, HAGER BB1199 X 626 X NRP (OR EQUAL) VON DUPRIN 2227EO X SP28 AND 304L (EA. LEAF) DETEX EAX-500 X SK2 X GY X IC7 SARGENT 1431 HZA EN NGP 2525 B (JAMB) NGP 600A (ASTRAGAL) NGP 139 SP	(N&E) (N&E) (N&E) (N&E) (N&E) (N&E) (N&E)
110	KICK PLATE:	DON-JO J 102 8"x34" X 26 METAL ON INTERIOR SIDE ONLY (OR EQUAL)			DRIP CAP:	NGP 16A DON-JO J102 8" X 34" X 626 METAL ON INTERIOR SIDE ONLY (OR EQUAL)	(N&E) (N&E) (N&E)
Н3	DOOR CLOSER: DOOR STOP: KICK PLATE:	T-1/2 PR, HAGER BB1199 X 626 (OR EQUAL) 1-1/2 PR, HAGER BB1199 X 626 (STOREROOM FUNCTION) SARGENT 1331 JO EN IVES FS13 X US26D DON-JO J102 8" X 34" X 626 METAL ON BOTH SIDES (OR EQUAL) OP: CANAROPA 1026.02 (OR EQUAL) VERIFY SPEC WITH CM PRIOR TO INSTALL	(N&E) (N&E) (N&E) (N&E) (N&E) (N&E)	Н8А	GEAR HINGE: EXIT DEVICE: EXIT ALARM: DOOR CLOSIR: WEATHER STATEPING: SECURITY ASTRAGE	(SINGLE 4-0) IVES 224HD X CL VON DUPRIN 22EO X SP28 DETEX EAX-500 X SK1 X GY X IC7 GAFGENTI143 ZAE IGI 25258 NGI 1392 SE	(N&E) (N&E) (N&E) (N&E) (N&E) (N&E) (N&E)
H4	JANITOR'S CLOSET & HINGES: CYLINDRICAL LOCKSE DOOR CLOSER: DOOR STOP: KICK PLATE:	UTILITY ROOMS 1-1/2 PR, HAGER BB1199 X 626 (OR EQUAL) ET: BEST 73KC7D X 14D X 626 (STOREROOM FUNCTION) SARGENT 1331 JO EN IVES FS13 X US26D DON-JO J102 8" X 34" X 626 METAL ON BOTH SIDES (OR EQUAL)	(N&E) (N&E) (N&E) (N&E) (N&E)	Н9	VESTIBUI E STOREFRO	NGP 200SA PEMKO 1719A NGP 16A DON-JO J102 8" X 34" X 626 METAL ON INTERIOR SIDE ONLY (OR EQUAL)	(N&E) (N&E) (N&E) (N&E)
		OP: CANAROPA 1026.02 (OR EQUÁL)	(N&E)		HINGE: PUSH/PULL: DOOR CLOSER:	3 PO (BY STORE SONE MANUFACTURER) PUSHIPULL (BY STORIED OF T MANUFACTURER) SAFGENT (33) PO IN EFRONT, HINGES ARE TO MATCH STOREFRONT IN FINISH	(N&E) (N) (N&E)
H4A	COMPACTOR DOOR (I HINGES: CYLINDRICAL LOCKSE DEADBOLT: DOOR CLUSER: WEATHER STRIP DOOR SWEEN THRESHOLD: DRIP CAP: KICK PLATE:	1-1/2 PR, HÄGER BB1199 X 626 X NRP (OR EQUAL) ET: BEST 93K0N X 14D X 626 BEST 8T3 7 L S5 626 SARGEUT 1827 BY 4 EN	(N&E) (N&E) (N&E) (N&E) (N&E) (N&E) (N&E)	H10	COMPACTOR WALK OL HINGES: EXIT DEVICE: EXIT ALARM: DOOR CLOSER: WEATHER STRIPPING: SECURITY ASTRAGAL:	JT MAN DOOR (SINGLE OR PAIR) 1-1/2 OR 3 PR, HAGER BB1199 X 626 X NRP (OR EQUAL) VON DUPRIN 22EO X SP28 (SGL), 2227EO X SP28 AND 304L (EA. LEAF OF PAIR) DETEX EAX-500 X SK1 X GY X IC7 (SGL), DETEX EAX-500 X SK2 X GY X IC7 (PR) SARGENT 1431 HZA EN NGP 2525 B (JAMB) NGP 600A (ASTRAGAL @ PR) NGP 1392 SP (SGL),	(N&E) (N&E) (N&E) (N&E) (N&E)
H5	NOT USED				GRAVITY COORDINATO	NGP 139 SP (PR) DR: ROCKWOOD 576 X 626	(N&E) (N&E)
H6	TOILETS HINGES: LOCKSET: DOOR CLOSER: DOOR STOP: KICK PLATE:	1-1/2 PR, HAGER BB1199 X 626 (OR EQUAL) SCHLAGE CO100CY40KPRHO62 6BRH SARGENT 1331 JO EN IVES FS13 X US26D DON-JO J102 8" X 34" X 626	(N) (N&E) (N&E) (N&E)		THRESHOLD: DRIP CAP: KICK PLATE:	NGP 200SA PEMKO 1719A NGP 16A DON-JO J102 8" X 34" X 626 METAL ON INTERIOR SIDE ONLY (OR EQUAL)	(N&E) (N&E) (N&E) (N&E)
H6A	TOILETS HINGES: LOCKSET: DOOR CLOSER: DOOR STOP:	METAL ON BOTH SIDES (OR EQUAL) 1-1/2 PR, HAGER BB1199 X 626 (OR EQUAL) BEST 73KC7D X 14D X 626 SARGENT 1331 JO EN IVES FS13 X US26D BON 14 10 2017 241 X 600	(N&E) (N) (N&E) (N&E) (N&E)	H11	BREAK ROOM OPEN TO HINGES: LOCKSET: DOOR CLOSER: DOOR STOP: KICK PLATE:	1-1/2 PR, HAGER BB1199 X 626 (OR EQUAL) SCHLAGE CO100CY40KPRHO62 6BRH SARGENT 1331 JO EN IVES FS13 X US26D DON-JO J102 8" X 34" X 626 METAL ON BOTH SIDES (OR EQUAL)	(N) (N&E) (N&E) (N&E)
Н7	ELIASON DOOR SENNECAHOLDI SON 30" ADI VI II OWS DOOR FINSKI GRAPI	DON-JO J102 8" X 34" X 626 METAL ON BOTH SIDES (OR EQUAL)	(N&E)	H12	STOREFRON ELT RIC EXIT DEVICE CORE CYLINDEN	DP: CANAROPA 1026.02 (OR EQUAL) OR ESRESI DOOKS DETEX 140XES LITTH (LASS KIT BES. 277	(N&E)
	18" BLACK STANDARD	BUMPERS, EAST SWING HARDWARE					

DOOR SCHEDULE NOTES

- EXISTING DOOR TO REMAIN. REPLACE HARDWARE AND PAINT AS SCHEDULED (ALL DOORS TO RECEIVE 7-PIN BEST CYLINDERS AND CONSTRUCTION CORES). DOOR AND DOOR HARDWARE TO BE PROVIDED AND INSTALLED BY CONTRACTOR. CONTRACTOR TO PROVIDE AND INSTALL HM FRAME TO MATCH DOOR SIZE SHOWN IN DOOR
- SCHEDULE.
- CDC EGRESS DOOR MAY BE 4'-0" X 7'-0", AT THE DISCRETION OF SAVERS CM.
- DOOR TO BE ABANDONED IN PLACE. ENSURE WATERTIGHTNESS. MECHANICALLY SECURE DOOR. PROVIDE STANLEY STANDARD DG3000 SERIES BI-PART SLIDING DOOR OR STANDARD DG2000 SERIES SINGLE SLIDING DOOR SYSTEM WITH NEW BEST CYLINDER WITH CONSTRUCTION
- PROVIDE PEEPHOLE, CENTERED IN DOOR, INSTALLED 5'-0" AFF.

ELECTRICAL

(E) HM

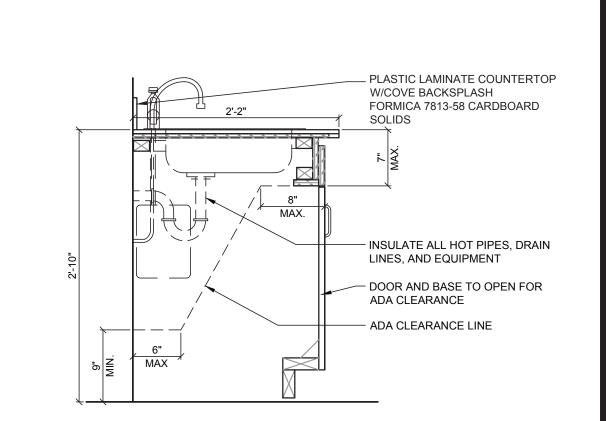
PAINT

3'-0" X 7'-0"

- PROVIDE 6"x12" TEMP. GLASS LITE IN DOOR. DIMENSION FOR LITE, NOT ROUGH OPENING. SEE 11 & 18/A900 PROVIDE 6"x12" ONE WAY TEMP. GLASS LITE IN DOOR. DIMENSION FOR LITE, NOT ROUGH OPENING. SEE 11 & 18/A900
- ALL REMAINING DOORS TO BE CLEANED AND SERVICED, SUCH AS REPLACE DAMAGED OR MISSING HINGES, SEALS, SILENCERS, WEATHER STRIPPING. ETC. TO ENSURE PROPER
- 10. GC RESPONSIBLE FOR COMPLETE AND PROPER OPERATION OF AUTOSLIDER DOORS, INCLUDING BUT NOT LIMITED TO SENSORS, MOTORS, TRACKS, SEALS, HINGES.
- . PROVIDE 12"x12" LAMINATED SAFETY GLASS, SEE 12/A900 12. PROVIDE H4A HARDWARE FOR COMPACTORS WITH FULL ENCLOSURES. PROVIDE VISION GLASS PER DETAIL 12/A900. COORDINATE WITH SAVERS CM.
- 3. ONE-WAY DEADBOLT, KEY ON INSIDE CYLINDER, OUTSIDE CYLINDER IS BLANK.
- 14. SEE DETAIL 29/A900 FOR OH DOOR CONFIG.
- 15. RESTROOM OCCUPANCY INDICATOR BOLT, SCHLAGE B571 SINGLE USE RESTROOMS ONLY. 16. REPLACE EXISTING DOOR WITH NEW. FRAME TO REMAIN

DOOR GENERAL NOTES

- ALL NEW INTERIOR DOORS TO BE 3070 HM DOORS WITH WELDED FRAMES AND BACKING FOR CLOSER
 ALL DOORS ENTERING AND LEAVING RETAIL AREA TO PRODUCTION AREA ARE TO BE CASED OPENINGS, SEE 21 & 22/A900 SIM.
 ALL JAMBS FOR CHASE AND/OR ELIASON DOORS ARE TO BE HM WELDED JAMBS FOR CASED OPENING WITH BACKING PER MANUFACTURER RECOMMENDATIONS. FRAME SUPPLIED AND
- U.N.O. ALL DOORS TO BE OFFSET 4" FROM ADJOINING WALL
- ALL DOORS AND FRAMES SCHEDULED TO BE PAINTED SHALL BE PAINTED P2 (SEE PAINT LEGEND) AT PEMKO 1719 THRESHOLDS, GC TO CONFIRM APPROPRIATE THRESHOLD WIDTH PER EXISTING CONDITIONS. ORDER MIN. WIDTH OF 12" WHICH CAN BE EXTENDED AS REQUIRED BY 1
- H4A. H8. H8A AND H10 REQUIRE TOP JAMB INSTALLATIONS FOR DOOR CLOSERS ALL EXTERIOR HOLLOW METAL DOORS TO RECEIVE SECURITY ASTRAGALS, NGP 1392 SP FOR SINGLE DOORS AND NGP 139 SP FOR PAIRS.



A900 / SCALE: 1" = 1'-0"

901 EAST. LANGSFORD RD. LEE'S SUMMIT, MO 64063

DATE: 07.08.25 **A900**

PROJECT NO: 2025.0167

no date remarks

REVISIONS

DOOR SCHEDULE / MISC. DETAILS

CHECKED: JW DRAWN: HP

30 DETAIL - SLAB INFILL @ TOILET ROOMS 11 BREAK ROOM ELEVATION A900 / SCALE: 3/16" = 1'0"

07.11.25 ISSUE FOR PERMIT

BUILDING COMPONENT	DESCRIPTION	WARRANT	MANUALS	СМ	PM
DIVISION 1		Y			
AIA 201 GENERAL CONDITIONS OF THE CONTRACT FOR	3.5 Contractor warrants that the materials and equipment furnished will be of good quality and new unless permitted				
CONSTRUCTION	otherwise The Contractor's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work not				
	executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear and normal usage.				
	normal usage.				
	12.2.2.1 In addition to the Contractor's obligations under Section	_			
	3.5, if, within one year after the date of Substantial Completion of the Work or designated portion thereof or after the date for				
	commencement of warranties established under Section 9.9.1, or by terms of an applicable special warranty required by the				
	Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of written				
	notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition. The				
	Owner shall give such notice promptly after discovery of the condition.				
DIVISION 3 CONCRETE SLAB	1 YEAR BASIC				
REPLACEMENT CONCRETE CRACK REPAIR	1 YEAR DEFECTIVE PRODUCT WARRANTY				
EPOXY JOINT SEALANT	1 YEAR MATERIAL AND WORKMANSHIP WARRANTY				
SLAB LEVELING AND REPAIR POLISHED CONCRETE SLAB	1 YEAR DEFECTIVE PRODUCT WARRANTY 10 – 20 YEARS ON CHEMICALLY HARDENED AND				
T OLIGITED CONCINETE SEAD	POLISHED FLOORING. PERFORMANCE WARRANTY AGAINST WATER REPELLENT, DUSTPROOF, HARDENED				
DIVISION 5	AND ABRASIVE RESISTANT.				
STRUCTURAL STEEL, JOISTS, DECK	1 YEAR BASIC				
STRUCTURAL METAL FRAMING					
STEEL STAIRS	LIFETIME WARRANTY AVAILABLE FROM SOME VENDORS.				
METAL STUDS, DRYWALL CHANNELS AND FURRING	1 YEAR BASIC. DEFECT FREE AT TIME OF SHIPMENT.				
DIVISION 6	1 VEAD BASIC				
ROUGH CARPENTRY CABINETRY AND MILLWORK	1 YEAR BASIC WARRANTIES VARY BY MANUFACTURER. 5 YEAR LIMITED				
DIVISION 7	TO LIFETIME WARRANTIES AVAILABLE.				
INSULATION	1 YEAR MATERIAL FREE FROM DEFECTS				
EIFS (SYNTHETIC STUCCO) ROOFING PENETRATIONS	12 YEAR LIMITED MATERIAL AND LABOR 1 year water tight warranty from vendor on non-warrantied roofs.				
	Can be included under existing roofing warranty terms if installed by manufacturer approved installer using matching system				
	products and completed installation inspected and approved by manufacturer.				
FLASHING AND SHEET METAL	PREFINISHED METALS COATING WARRANTIES VARY FROM 10 TO 20 YEARS. COVERS COLOR RETENTION,				
FIREPROOFING	CHALKING, PEEL RESISTANCE. 2 YEAR MATERIAL AND WORKMANSHIP.				
FIRESTOPPING	FREE FROM DEFECT IN MATERIAL OR MANUFACTURE				
JOINT SEALERS	FOR 90 DAYS. Exterior Vertical Silicone 5-20 years, Exterior Horizontal Silicone				
	Urethane Sealants 5 years				
	INTERIOR LATEX 1 YEAR				
DIVISION 8 STEEL DOORS	1 YEAR BASIC				
WOOD DOORS	INTERIOR 5 PLY WOOD DOORS – LIFETIME OF ORIGINAL INSTALLATION				
IMPACT DOORS	2 YEAR MATERIAL AND WORKMANSHIP				
ACCESS DOORS ROLLING SERVICE DOORS	1 YEAR MATERIAL AND WORKMANSHIP 2 YEAR MATERIAL AND WORKMANSHIP				
ALUMINUM STOREFRONTS AND ENTRY DOORS	Storefront Framing: 2 years material and workmanship				
AND ENTRY DOORS	Door closers: 5 years DOORS: USEFUL LIFE OF DOOR	-			
AUTOMATIC SLIDING DOORS	1 YEAR MATERIAL AND WORKMANSHIP				
FINISH HARDWARE	Best Locksets: 3 years Panic Devices: 10 year mechanical, 3 year Electrical	-			
	Closers: 10 year limited warranty				
GLAZING	HINGES: 1 YEAR WARRANTY 10 YEAR MATERIAL DETERIORATION ON INSULATED AND				
WINDOW FILM	COATED GLASS SUN CONTROL FILM 10 YEARS NON-TRANSFERABLE FOR				
WINDOW FILIW	FILM AND GLASS FAILURE DUE TO THERMAL SHOCK.				
DIVISION 9					
GYPSUM BOARD ASSEMBLIES	Paper faced board: 2 years material warranty from date of manufacture	_			
	FIBERGLASS FACED BOARDS: 3 YEARS MATERIAL WARRANTY				
ACOUSTICAL CEILINGS	SPECIFIED "GEORGIAN" TILE 30 YEARS MATERIAL AND FACTORY WORKMANSHIP.				
RESILIENT FLOOR TILE AND WALL BASE	ARMSTRONG HAS 5 YEAR MATERIAL WARRANTY WITH FULL LABOR FOR FIRST YEAR, 50% COST OF LABOR	_		_	
	THROUGH SECOND YEAR AND NO LABOR BEYOND 2 YEARS.				
PAINT	Customer Satisfaction Warranty from Sherwin Williams (general)				
	PROJECT SPECIFIC WARRANTY AVAILABLE BASED ON SITE SPECIFIC CONDITIONS AND SUBSTRATES.				
DIVISION 10					
LOUVER AND VENTS	20 year on baked enamel finishes. 1 year material on louvers	_			
	5 YEAR MATERIAL AND WORKMANSHIP ON SMOKE DAMPERS.	1			
FIRE EXTINGUISHERS	2 – 6 YEAR WARRANTIES ON PORTABLE FIRE EXTINGUISHERS.				
TOILET ACCESSORIES / HAND DRIER	Washroom accessories/soap dispensers: 3 year limited warranty				
w=1 v	Mirrors: 10 to 15 year limited based on model	_			
	Had dryers: 3 years motor brushes, 10 years all other parts PARTITIONS: 1 TO 15 YEARS BASED ON MODEL	_			
DIVISION 15	SELECTED.				
SINKS AND FAUCET	Drinking Fountain: 5 year on refrigeration system, 1 year on				
	electrical components and plumbing components. Lounge Sink: 1 year limited warranty Faucet 10 years	-			
	Mop Sink and faucets: Lifetime limited warranty	-			
	Water Heater: 3 years on tank Lavatory: 1 year limited warranty Faucet 5 year material and	-			
	manufacturer defect Water Closet: 1 year limited warranty Flush Valve: 3 year	_			
	limited	_			
EIDE DDOTFOTION	URINAL: 1 YEAR LIMITED WARRANTY: FLUSH VALVE: 3 YEAR LIMITED VARIES BY INSTALLED 5 YEAR MATERIAL 1 YEAR				
FIRE PROTECTION	VARIES BY INSTALLER 5 YEAR MATERIAL, 1 YEAR MAINTENANCE STANDARD.				
PLUMBING HVAC	1 YEAR STANDARD NEW UNITS: 5 YEAR COMPRESSOR, 10 YEAR HEAT				
CONTROL WIRING	EXCHANGER THERMOSTAT: 5 YEARS				
DIVISION 16			_		
DIVISION 16 ELECTRICAL PANELS TRANSFORMERS	18 MONTH TO 3 YEARS BASED ON MANUFACTURER 5 YEARS				

NG/ PARTITION HEIGHT		FINISH SCHEDULE										
	ROOM	500111115	CEILING			51,005						
PARTITION HEIGHT	#	ROOM NAME	MATERIAL	CEILING HEIGHT	FINISH	FLOOR	MATERIAL	PAINT	BASE	NOTES		
20'-0" 22'-6"	101	MERCANTILE	1.0/1.1	OPEN/EXIST.	P15	2.1	3.1	P1	5.1	4		
24'-6"	102	VESTIBULE	1.1	EXIST.		2.3	3.1	P1	5.1			
	103	RECEIVING	1.1	EXIST.		2.0	3.0 / 3.1/ 3.3	P14	5.0	1		
EGEND	104	CDC	1.1	EXIST.		2.1	3.0 / 3.1/ 3.3	P14	5.0	1		
	105	BACK ROOM	1.1	EXIST.		2.0	3.0 / 3.1/ 3.3	P14	5.0	1		
Area Used-REFERENCE ONLY, DO NOT PLOT	106	WOMEN'S TOILET	1.2	EXIST.	P16	2.1	3.4	P1	5.1	3		
Walls: Vestibule, Sales floor, Offices, Breakroom, Restrooms Doors & Frames	107	MEN'S TOILET	1.2	EXIST.	P16	2.1	3.4	P1	5.1	3		
Walls: Retail Area Walls: CDC, Back Room, Receiving	108	JANITOR	1.1	9'-0"		2.0	3.4	-	5.1	3		
Ceiling: exposed deck Ceiling: Offices, Restrooms	109	UNISEX TOILET	1.2	9'-0"	P16	2.1	3.4	P1	5.1	3		
CDC Exterior CDC Exterior	110	BREAK ROOM	1.1	9'-0"		2.1	3.1 / 3.4	P1	5.1	2		
	111	UNISEX TOILET	1.2	9'-0"	P16	2.1	3.4	P1	5.1	3		
	112	JUMP START	1.1	9'-0"		2.1	3.1	P1	5.1			
RIOR LATEX PRIMER ITERIOR LATEX FLAT	113	MANAGER'S OFFICE	1.2	9'-0"	P16	2.1	3.1	P1	5.1			
C INTERIOR LATEX FLAT	117	IT	1.2	9'-0"	P16	2.0	3.1	P1	5.1			
RIOR LATEX PRIMER	118	ELECTRICAL	1.2	OPEN		2.0	3.1	P1	5.0			
ERIOR LATEX PRIMER INTERIOR LATEX EG-SHEL DC INTERIOR LATEX EGGSHELL	118	ELECTRICAL	1.2	OPEN		2.0	3.1	P1	5.0			

FINISH SCHEDULE NOTES

- INSTALL 1/2" CDX PLYWOOD OVER GYP. BD. AND CMU WALLS TO 4' 0" A.F.F. PLYWOOD TO BE FIRE RETARDANT TREATED. INSTALL 2x12 BOARD AT BASE OF PLYWOOD TO ACT AS A KICKPLATE. INSTALL 12'-0" AFF PLYWOOD AT ALL PALLET RACKING LOCATIONS. COORDINATE WITH SAVERS CM. PAINT ALL PLYWOOD AND BASE IN CDC P17
- INSTALL FRP TO 4' 0" A.F.F. INSTALL FULL HEIGHT FRP BACKSPLASH AT MILLWORK COUNTERTOP
- INSTALL FULL HEIGHT FRP.
- REFERENCE SHEET A401 FOR INTERIOR ELEVATIONS AND RETAIL PAINT LAYOUT.
- NOT USED.

NOT USED.

PARTITION STUD SPACING/ PARTITION HEIGHT

PAINT LEGEND

SW 7012

SW 6803

SW 7005

SW 7006

SW 6921

SW 6457

PRIMER: B28W00600 - PROGREEN 200 LOW VOC INTERIOR LATEX PRIMER

FIRST COAT: B30W00651 - PROGREEN 200 LOW VOC INTERIOR LATEX FLAT

PRIMER: B28W00600 - PROGREEN 200 LOW VOC INTERIOR LATEX PRIMER

PRIMER: B28W00600 - PROGREEN 200 LOW VOC INTERIOR LATEX PRIMER

FIRST COAT: B30W00651 - PROGREEN 200 LOW VOC INTERIOR LATEX FLAT SECOND COAT: B30W00651 - PROGREEN 200 LOW VOC INTERIOR LATEX FLAT

SECOND COAT: B30W00651 - PROGREEN 200 LOW VOC INTERIOR LATEX FLAT

FIRST COAT: B20W00651 - PROGREEN 200 LOW VOC INTERIOR LATEX EG-SHEL

SECOND COAT: B20W00651 - PROGREEN 200 LOW VOC INTERIOR LATEX EGGSHELL

FIRST COAT: B31W00651 - PROGREEN 200 LOW VOC INTERIOR LATEX SEMI-GLOSS SECOND COAT: B31W00651 - PROGREEN 200 LOW VOC INTERIOR LATEX SEMI-GLOSS

PRIMER: A24W08300 - LOXON® CONCRETE AND INTERIOR/EXTERIOR LATEX PRIMER

PRIMER: A24W08300 - LOXON® CONCRETE AND INTERIOR/EXTERIOR LATEX PRIMER

PRIMER: A24W08300 - LOXON® CONCRETE AND INTERIOR/EXTERIOR LATEX PRIMER

SECOND COAT: B31W00651 - PROGREEN 200 LOW VOC INTERIOR LATEX SEMI-GLOSS

FIRST COAT: B66W00351 - SHER-CRYL HPA HIGH PERFORMANCE ACRYLIC SEMI-GLOSS

FIRST COAT: B66W00351 - SHER-CRYL HPA HIGH PERFORMANCE ACRYLIC SEMI-GLOSS SECOND COAT: B66W00351 - SHER-CRYL HPA HIGH PERFORMANCE ACRYLIC SEMI-GLOSS

SECOND COAT: B66W00351 - SHER-CRYL HPA HIGH PERFORMANCE ACRYLIC SEMI-GLOSS

FIRST COAT: B31W00651 - PROGREEN 200 LOW VOC INTERIOR LATEX SEMI-GLOSS

FIRST COAT: B20W00651 - PROGREEN 200 LOW VOC INTERIOR LATEX EG-SHEL SECOND COAT: B20W00651 - PROGREEN 200 LOW VOC INTERIOR LATEX EG-SHEL

SPOT PRIME: B66W00310 - PRO INDUSTRIAL PRO-CRYL® UNIVERSAL PRIMER

SPOT PRIME: B66W00310 - PRO INDUSTRIAL PRO-CRYL® UNIVERSAL PRIMER

FIRST COAT: B30W00651 - PROGREEN 200 LOW VOC INTERIOR LATEX FLAT

SECOND COAT: B30W00651 - PROGREEN 200 LOW VOC INTERIOR LATEX FLAT

FIRST COAT: B20W00651 - PROGREEN 200 LOW VOC INTERIOR LATEX EG-SHEL

SECOND COAT: B20W00651 - PROGREEN 200 LOW VOC INTERIOR LATEX EG-SHEL

FIRST COAT: B31W00651 - PROGREEN 200 LOW VOC INTERIOR LATEX SEMI-GLOSS SECOND COAT: B31W00651 - PROGREEN 200 LOW VOC INTERIOR LATEX SEMI-GLOSS

FIRST COAT: B66W00351 - SHER-CRYL HPA HIGH PERFORMANCE ACRYLIC SEMI-GLOSS SECOND COAT: B66W00351 - SHER-CRYL HPA HIGH PERFORMANCE ACRYLIC SEMI-GLOSS

SPOT PRIME: A24W08300 - LOXON® CONCRETE AND INTERIOR/EXTERIOR LATEX PRIMER

SPOT PRIME: A24W08300 - LOXON® CONCRETE AND INTERIOR/EXTERIOR LATEX PRIMER

PRIMER: B51W08020 - MULTI-PURPOSE LATEX PRIMER WHITE

PRIMER: B51W08020 - MULTI-PURPOSE LATEX PRIMER

PRIMER: B51W08020 - MULTI-PURPOSE LATEX PRIMER

PRIMER: B71Y00001 - DTM WASH PRIMER YELLOW GREEN

SPOT PRIME: B42W08041 - EXTERIOR LATEX WOOD PRIMER FIRST COAT: A06W00151 - A-100® EXTERIOR LATEX FLAT SECOND COAT: A06W00151 - A-100® EXTERIOR LATEX FLAT

SPOT PRIME: B42W08041 - EXTERIOR LATEX WOOD PRIMER

FIRST COAT: A82W00151 - A-100® EXTERIOR LATEX SATIN SECOND COAT: A82W00151 - A-100® EXTERIOR LATEX SATIN

FIRST COAT: A06W00151 - A-100® EXTERIOR LATEX FLAT

FIRST COAT: A82W00151 - A-100® EXTERIOR LATEX SATIN

SECOND COAT: A82W00151 - A-100® EXTERIOR LATEX SATIN

PRIMER: B66A50 DTM BONDING PRIMER @ 2.0 - 5.0 MILS DFT

a. PROHIBITED MATERIALS: HYDROCARBON SOLVENTS.

TOPCOAT: A10T00007 - LOXON® 7% SILOXANE WATER REPELLANT CLEAR

FIRST COAT: B66-300 SERIES SHER CRYL COATING GLOSS @ 2.5 - 4.0 MILS DFT

FLUOROCARBON, SILICON POLYESTER, OR POLYESTER POLYMERS PANELS AND SIDING -

ENSURE ADEQUATE ADHESION TO SUBSTRATE AND RINSE WITH FRESH WATER.

SECOND COAT: B66-300 SERIES SHER CRYL COATING GLOSS @ 2.5 - 4.0 MILS DFT

1. SURFACE PREPARATION BEFORE SOLVENT OR WATER BLAST CLEANING: SURFACE MUST

BE CLEAN, DRY AND IN SOUND CONDITION. REMOVE ALL FOREIGN MATTER (OTHER THAN

OIL, GREASE), DIRT, LOOSE RUST, VISIBLE CONTAMINANTS, PEELING PAINT AND OTHER

CONTAMINANTS BY BRUSH, ABRASIVE, SCRAPING OR CHEMICAL CLEANER MEANS TO

2. REMOVE OIL, GREASE, DIRT, OXIDES, AND OTHER CONTAMINANTS FROM THE SURFACE BY

EXCESSIVE BLASTING PRESSURE MAY CAUSE WARPING OF PANELS, USE CAUTION).

3. SURFACE PREPARATION AFTER SOLVENT CLEANING: REMOVE DIRT, DUST OR OTHER

4. CHECK FOR COMPATIBILITY OF THE PREVIOUSLY PAINTED SURFACE WITH THE NEW

COATING BY APPLYING A TEST PATCH OF 2 - 3 SQUARE FEET. ALLOW TO DRY

FIRST COAT: B66-300 SERIES SHER CRYL COATING GLOSS @ 2.5 - 4.0 MILS DFT

SECOND COAT: B66-300 SERIES SHER CRYL COATING GLOSS @ 2.5 - 4.0 MILS DFT

CONTAMINANTS FORM THE SURFACE PRIOR TO PAINT APPLICATION.

THOROUGHLY FOR 1 WEEK BEFORE CHECKING ADHESION.

PRIMER: B66A50 DTM BONDING PRIMER @ 2.0 - 5.0 MILS DFT

CLEANING PER SSPC-SP1 OR WATER BLASTING PER NACE STANDARD RP-01-72 (CAUTION:

SECOND COAT: A06W00151 - A-100® EXTERIOR LATEX FLAT

TOPCOAT: B42W00001 - WATERBORNE ACRYLIC DRY FALL FLAT

SPACING PARTITION HEIGHT

Match # or SW # Area Used-REFERENCE ONLY. DO NOT PLOT

20 GA. STUD MIN.

PARTITION HEIGHT

14'-0"

15'-0"

17'-6"

P1 SW 7012 SW Creamy-Egg Shell

P14 SW 7005 Pure White-Egg Shell

16 SW 7006 Extra White-Semi-gloss

P3 SW 6803 Danube-Egg Shell

15 SW 7005 Pure White-Flat

17 SW 6921 ELECTRIC LIME

P18 SW 6457 DARK GREEN

PAINT SYSTEMS SCHEDULE

DRYWALL - SEMI-GLOSS

CONCRETE/CEMENT - EG-SHEL

CONCRETE/CEMENT - SEMI-GLOSS

ALUMINUM / GALVANIZED - SEMI-GLOSS

STEEL - SEMI-GLOSS

WOOD - EG-SHEL

WOOD - SEMI-GLOSS

STEEL - STAINLESS

EXPOSED CEILINGS

EXTERIOR FINISHES

WOOD - FLAT FINISH

WOOD - SATIN FINISH

MASONRY - SATIN FINISH

MASONRY - CLEAR

5. PAINT SYSTEM:

KYNAR - GLOSS

INTERIOR FINISHES

DRYWALL - FLAT

SW 7032 Warm Stone-Semi-gloss

3-5/8" STUD

SPACING

- 1.0 EXPOSED STRUCTURE
- 1.1 ACT ARMSTRONG
- 763-GEORGIAN 2' X 4' LAY-IN ACOUSTIC CEILING TILE WITH ARMSTRONG 15/16" GRID OR
- ACOUSTICAL CEILINGS:
- GENERAL: PATCH AND REPAIR ACT WERE WALLS HAVE BEEN MOVED OR REMOVED. (MATCH EXISTING). • GENERAL: REMOVE ALL OUTLETS, SPEAKERS, CLIPS AND WIRES IN EXISTING CEILINGS GENERAL: REPLACE ANY STAINED OR DAMAGED CEILING TILES (MATCH EXISTING).
- GENERAL: REPLACE OR REPAIR DAMAGED GRID (MATCH EXISTING). CLEAN ALL EXISTING GRID TO BE REUSED.

FLOOR FINISH LEGEND

CEILING FINISH LEGEND

- 2.0 EXPOSED CONCRETE REFER TO QUESTMARK SPECIFICATION
- 2.1 POLISHED CONCRETE REFER TO QUESTMARK SPECIFICATION

1.2 GYP. BD.

- 2.3 INVISATREAD; QUESTMARK FLOORING, REFER TO QUESTMARK SPECIFICATION [PROVIDE IMPACT SPECIALITIES, HELIX Z1 12" x 9" TILE, BLACK, SURFACE MOUNT INSTALLATION, AT VESTIBULE DOORWAYS.]

BASE FINISH LEGEND

GENERAL FINISH NOTES

WALL FINISH LEGEND

- 3.0 EXISTING EXPOSED CMU
- 3.1 GYP. BD
- 3.2 NOT USED
- 3.3 1/2" CDX PLYWOOD 3.4 FRP (SMOOTH, WHITE)

- 5.0 NO BASE
- 5.1 RESILIENT BASE 4" ARMSTRONG: SMOKEY GRAY, R48SG

5.2 CERAMIC TILE (EXISTING TO REMAIN)

- ALL NEW AND EXISTING GYP. BD. WALLS TO BE LEVEL 4 FINISH ON SALES AND OFFICE AREAS (MANAGER, JUMP START, BREAK ROOM,
- RESTROOMS). PRODUCTION AND RECEIVING WALLS TO BE LEVEL 3 FINISH. ALL COLUMNS OTHER THAN THOSE IN THE SALES AREA ARE TO BE PAINTED WHITE
- POWER POLES TO BE PAINTED P1. DO NOT PAINT ANODIZED ALUMINUM POWER POLES.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLETING THE VCT STRIP AND WAX AND FINAL CLEANING PRIOR TO TURNOVER TO SAVERS VALUE VILLAGE.
- WHERE MERCANTILE IS DIRECTLY ADJACENT TO THE BACK ROOM AND/OR CDC AND SEPARATED BY FIXTURE WALL, CONTINUE P1 FOR THE FULL EXTENT OF ANY SHARED WALLS

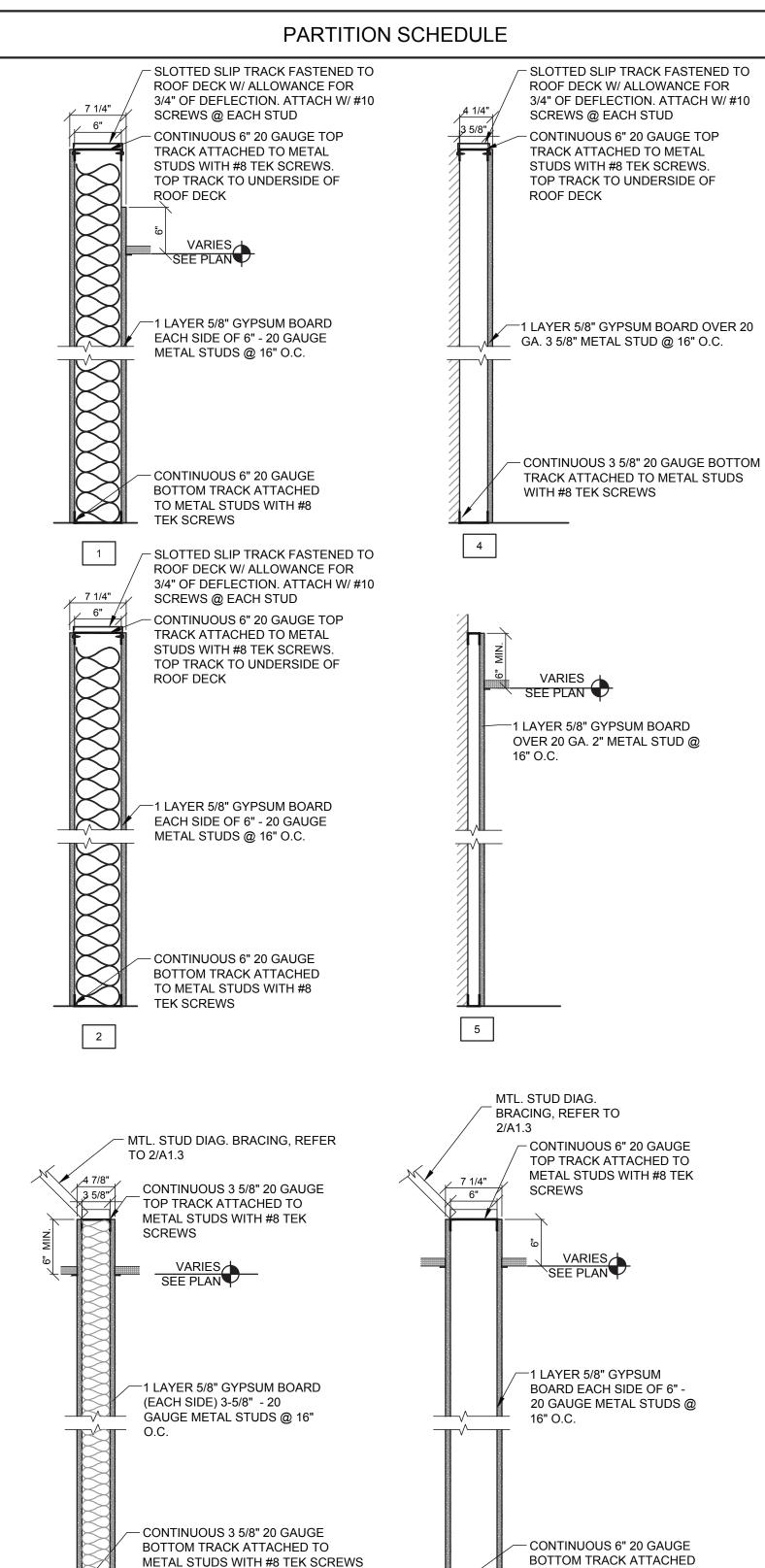
GENERAL PROJECT NOTES

TOILET COMPARTMENTS:

- PROVIDE EXIT SIGNS AS REQUIRED BY LOCAL JURISDICTION.
- PROVIDE FIRE EXTINGUISHER SIGN AS REQUIRED BY LOCAL JURISDICTION. PROVIDE SIGNS FOR RESTROOMS TO MEET CODE REQUIREMENTS.

GENERAL PARTITION NOTES

- SEE PARTITION STUD SPACING FOR HEIGHT LIMITATION
- STUD GAUGE SHALL BE PER MANUFACTURER'S RECOMMENDATIONS, APPLICABLE CODES AND THE U.S. GYPSUM BOARD INSTITUTE, U.N.O IN NO CASE SHALL THE STUD GAUGE BE LESS THAN 20 GAUGE.
- GYP. BD. SHALL BE MOISTURE RESISTANT, IN AREAS SUBJECT TO MOISTURE.
- NOT USED.
- PROVIDE F.R.T. WOOD BLOCKING IN PARTITIONS FOR SUPPORT OF ALL WALL MOUNTED ACCESSORIES, FIXTURES, AND ROOF LADDER,
- PROVIDE SLIP TRACK CONNECTION AT THE TOP OF ALL PARTITIONS THAT TERMINATE AT THE UNDERSIDE OF THE FLOOR DECK, FLOOR STRUCTURE, ROOF DECK AND ROOF STRUCTURE. THIS CONNECTION SHALL ACCOMMODATE 2" OF VERTICAL DEFLECTION AT THE ROOF.
- PROVIDE CONTROL JOINTS IN GYP. BD. WALLS AS REQUIRED BY "THE GYPSUM CONSTRUCTION HANDBOOK", LATEST EDITION. MIN. EVERY



6" 20 GA. METAL STUDS FROM FLOOR SLAB TO DECK ABOVE. INSTALL ONE LAYER OF 5/8" GYP. BD. FULL HEIGHT OF STUDS ON ONE SIDE, GWB TO 6" ABOVE CEILING ON OTHER SIDE

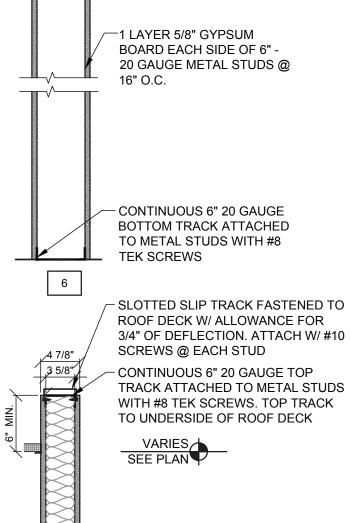
6" 20 GA. METAL STUDS FROM FLOOR SLAB TO DECK ABOVE. INSTALL ONE LAYER OF 5/8" GYP. BD. FULL HEIGHT OF STUDS ON EACH SIDE.

3-5/8" 20 GA. METAL STUDS FROM FLOOR SLAB TO 6" ABOVE CEILING. INSTALL ONE LAYER OF 5/8" GYP. BD. FULL HEIGHT OF STUDS ON BOTH SIDES.

3-5/8" 20 GA. METAL STUDS FROM FLOOR SLAB TO DECK. BRACE STUDS TO EXT. WALL. INSTALL ONE LAYER OF 5/8" GYP. BD. FULL HEIGHT OF STUDS ON SALES SIDE.

2 1/2" MTL. STUDS ON EXISTING MASONRY WALL TO 6" ABOVE CEILING. INSTALL ONE LAYER OF 5/8" GYP. BD. FULL HT. OF FURRING ON EXPOSED SIDE. ALIGN W/ EXISTING WALL FURRING

6" 20 GA. METAL STUDS FROM FLOOR SLAB TO 6" ABOVE CEILING. INSTALL ONE LAYER OF 5/8" GYP. BD. FULL HEIGHT OF STUDS ON BOTH SIDES.



—1 LAYER 5/8" GYPSUM BOARD (EACH SIDE) 3-5/8" - 20 GAUGE METAL STUDS @ 16"

- CONTINUOUS 3 5/8" 20 GAUGE BOTTOM TRACK ATTACHED TO METAL STUDS WITH #8 TEK SCREWS

07.11.25 ISSUE FOR PERMIT NO DATE REMARKS REVISIONS

INTERPLAN

1 EAST 22ND STREET, SUITE 400

JOSEPH R.

WHALEN

NUMBER

JOSEPH R. WHALEN - ARCHITECT

LIC. # A-2025017570

A-2025017570

LOMBARD, IL 60148 630.932.233

ARCH COA #2015008774

ENG COA #2005026904

ARCHITECTUR

ENGINEERING



901 EAST. LANGSFORD RD. LEE'S SUMMIT, MO

PROJECT NO: 2025.0167

DATE: 07.08.25

CHECKED: JW DRAWN: HP

FINISH / PARTITION SCHEDULES WARRANTY INFO.

- A. USE THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND SHOP DRAWINGS. B. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL CONTRACT DOCUMENTS AND LATEST ADDENDA, AS WELL AS SUBMITTING TO ALL
- SUBCONTRACTORS AND SUPPLIERS PRIOR TO SUBMITTING SHOP DRAWINGS. C. DO NOT SCALE DRAWINGS OR AUTO-DIMENSION ELECTRONIC FILES. NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES IN
- WRITING PRIOR TO FABRICATION OR CONSTRUCTION. D. COMPARE ALL CONTRACT DRAWINGS AND REPORT ANY DISCREPANCIES BETWEEN DISCIPLINES, AND WITHIN A GIVEN DISCIPLINE, TO
- THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION AND ERECTION. E. IF A CONFLICT EXISTS AMONG THE STRUCTURAL DRAWINGS OR GENERAL NOTES, THE STRICTEST REQUIREMENTS, AS INDICATED BY
- THE ENGINEER, GOVERNS. F. COORDINATE ALL ELEVATIONS AND DIMENSIONS, INCLUDING BUT NOT LIMITED TO, OPENINGS IN WALLS, ROOFS, AND FLOOR

THE ERECTION PROCEDURE TO ENSURE THE STABILITY AND SAFETY OF THE BUILDING AND ITS COMPONENTS DURING

SYSTEMS, WITH THE ARCHITECTURAL, PLUMBING, ELECTRICAL, AND MECHANICAL PLANS. G. VERIFY ALL DIMENSIONS, ELEVATIONS, AND ANY OTHER EXISTING CONDITIONS. NOTIFY THE ARCHITECT AND ENGINEER OF DISCREPANCIES BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK. DURING THE CONSTRUCTION PROCESS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE AND TO PROTECT FROM DAMAGE ANY

PORTIONS THAT REMAIN. THE SHORING AND BRACING SHOWN (IF ANY) IS A PARTIAL AND SCHEMATIC REPRESENTATION. DETERMINE

- H. UNLESS NOTED OTHERWISE, DETAILS SHOWN ARE TYPICAL FOR ALL SIMILAR CONDITIONS. I. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS, AS WELL AS SAFETY PRECAUTIONS AND
- J. BRITT, PETERS & ASSOCIATES, INC. IS NOT RESPONSIBLE FOR ACTS OR OMISSIONS OF THE CONTRACTOR, NOR FAILURE TO PERFORM WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

DESIGN CRITERIA

- A. STRUCTURAL DRAWINGS ARE BASED ON THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE AND THE REFERENCED SECTIONS WITHIN. B. DEAD LOADS:
- 20 PSF TOTAL (ASSUMED) ROOF SYSTEMS:
- C. LIVE LOADS: 1. LIVE LOADS ARE BASED ON THE MORE RESTRICTIVE OF THE UNIFORM LOAD OR THE CONCENTRATED LOAD LISTED ACTING OVER A 6.25 SQUARE FOOT AREA. LIVE LOADS HAVE BEEN REDUCED AS PRESCRIBED IN THE AFOREMENTIONED BUILDING CODE.

LIVE LOADS		
CATEGORY	UNIFORM LOAD (PSF)	CONCENTRATED LOAD (LBS)
ROOFS: ALL ROOF SURFACES SUBJECT TO WORKERS		300
ROOFS: ORDINARY ROOF	20	
STAIRS AND EXITS: ALL OTHER	100	

D. DESIGN SNOW LOADS:

D. DESIGN SNOW LOADS.		
EXISTING BUILDING		
1. GROUND SNOW LOAD:	P_{G}	20 F
2. FLAT ROOF SNOW LOAD:	P_{F}°	20 F
3. SNOW EXPOSURE FACTOR:	Ċ _F	1.0
4. SNOW THERMAL FACTOR:	C _T	1.0
5. SLOPE FACTOR:	Cs	1.0
6. SNOW IMPORTANCE FACTOR:	I _S	1.0
EXTERIOR CANOPY	G	
1. GROUND SNOW LOAD:	P_{G}	20 F
2. FLAT ROOF SNOW LOAD:	P_{F}°	20 F
3. SNOW EXPOSURE FACTOR:	Ċ _E	1.0

SNOW THERMAL FACTOR: 1.0 SLOPE FACTOR: 1.0 6. SNOW IMPORTANCE FACTOR: E. DESIGN WIND LOADS: BASIC WIND SPEED 109 MPH (3-SEC GUST)

2. BASIC WIND SPEED 85 MPH (3-SEC GUST) RISK CATEGORY: WIND EXPOSURE: 5. INTERNAL PRESSURE COEFFICIENT: ±0.18 6. COMPONENTS & CLADDING WIND PRESSURES (ULTIMATE):

		Ult	imate Desi	gn Wind P	ressure (p	sf):					
Effective Wind Area (sq ft)											
	Walls:		10	20	50	100	200	0 500			
Intorior	Zone 4	+	16.5	16.0	16.0	16.0	16.0	16.0			
Interior	Zone 4	-	-17.9	-17.1	-16.2	-16.0	-16.0	-16.0			
Edge	Zana E	+	16.5	16.0	16.0	16.0	16.0	16.0			
	Zone 5	-	-22.0	-20.5	-18.6	-17.1	-16.0	-16.0			
Roof:			10	20	50	100	200	500			
Intorior	Zone 1 Zone 1'	+	16.0	16.0	16.0	16.0	16.0	16.0			
Interior		-	-28.7	-26.8	-24.3	-22.4	-20.5	-18.0			
Interior		+	16.0	16.0	16.0	16.0	16.0	16.0			
IIILEIIOI	Zonen	-	-16.5	-16.5	-16.5	-16.5	-16.0	-16.0			
Edge	Zone 2	+	16.0	16.0	16.0	16.0	16.0	16.0			
Luge	Zone Z	-	-37.9	-35.4	-32.2	-29.8	-27.3	-24.1			
	Parapet:		10	20	50	100	200	500			
Edge	7000 2	+	61.1	57.1	51.9	47.9	44.0	38.7			
Luge	Zone 2	-	-36.1	-34.2	-31.8	-30.0	-28.2	-25.8			
Carnar	7000 2	+	78.2	71.2	62.0	55.0	48.0	38.7			
Corner	Zone 3	-	-41.2	-38.5	-34.9	-32.1	-29.4	-25.8			

WIDTH OF ZONE, a = 7.5 FT F. SEISMIC LOADS:

8. SEISMIC DESIGN CATEGORY:

1	. RISK CATEGORY:		II
2	. SEISMIC IMPORTANCE FACTOR:	I _E	1.0
3	. SHORT PERIOD SPECTRAL RESPONSE ACCELERATION:	S_S	0.100 g
4	. 1-SEC PERIOD SPECTRAL RESPONSE ACCELERATION:	S_1	0.068 g
5	. SITE CLASS:	·	D (ASSUMED)
6	. SHORT PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION:	S _{DS}	0.107 g
7	. 1-SEC PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION:	S_{D1}^{D0}	0.109 g

- A. REMOVE STRUCTURE FROM TOP DOWN. DO NOT ALLOW DEBRIS TO PILE UP OR FALL ON SLABS TO REMAIN. USE PLYWOOD AND/OR OTHER MEANS TO PROTECT SLABS FROM DAMAGE. REPAIR OR REPLACE DAMAGED SLABS, BEAMS, OR OTHER COMPONENTS AS DIRECTED BY OWNER.
- B. THESE DRAWINGS ARE INTENDED TO DEFINE PRECAUTIONS FOR PREVENTING DAMAGE TO STRUCTURE TO REMAIN. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.
- C. FIELD VERIFY ALL EXISTING CONDITIONS. SUBMIT A WRITTEN REPORT IDENTIFYING DEVIATIONS FROM THE EXISTING STRUCTURE
- D. INSTALL TEMPORARY SHORING AND BRACING OF STRUCTURE AS REQUIRED. E. CONTACT THE ENGINEER FOR QUESTIONABLE LOCATIONS OR SPECIAL CONDITIONS NOT INDICATED.
- F. SUBMIT DETAILS AND CALCULATIONS OF SHORING, BRACING AND OTHER CONSTRUCTION REQUIRED, INCLUDING PHASING, STAGING, AND SEQUENCE. SUBMITTAL MUST BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER, RETAINED BY THE CONTRACTOR. PROVIDE SUBMITTAL TO SPECIAL INSPECTION AGENCY FOR REVIEWING THE INSTALLED SHORING/BRACING, PRIOR TO PROCEEDING WITH WORK.

- A. FOUNDATIONS HAVE BEEN DESIGNED USING A NET ALLOWABLE SOIL BEARING PRESSURE OF 1,500 PSF HAS BEEN ASSUMED AND MUST BE CONFIRMED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF CONCRETE. B. ALL SOILS WORK, INCLUDING BACKFILL OF UTILITY TRENCHES AND THE VERIFICATION OF BEARING CAPACITY MUST BE UNDER THE
- DIRECTION OF A QUALIFIED GEOTECHNICAL ENGINEER. PROXIMITY OF UTILITY TRENCHES TO BUILDING FOUNDATION SYSTEM MUST BE AS APPROVED BY THE GEOTECHNICAL ENGINEER TO ENSURE INTEGRITY OF THE BEARING SOILS. C. ALL FOUNDATIONS BEAR ON UNDISTURBED EARTH OR ENGINEERED FILL AT ELEVATIONS SHOWN ON PLANS AND DETAILS.
- COORDINATE FINAL TOP OF FOOTING ELEVATIONS WITH THE ARCHITECTURAL ELEVATIONS, MEP DRAWINGS, AND CIVIL GRADING PLANS PRIOR TO PLACEMENT. FOUNDATION STEPS INDICATED ARE APPROXIMATE, UNLESS NOTED OTHERWISE, AND MUST BE FIELD COORDINATED. THE BOTTOM OF EXTERIOR FOUNDATION ELEVATIONS MUST BE BELOW THE FROST DEPTH ELEVATION 1'-6" MEASURED
- FROM EXTERIOR FINISHED GRADE. D. BEAR FLOOR SLABS ON 4 INCH MINIMUM DRAINAGE COURSE (COMPACTED STONE) UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT OR DRAWINGS. PLACE THE VAPOR RETARDER BETWEEN THE DRAINAGE COURSE AND THE SLAB, VAPOR RETARDER IS ASTM E1745, CLASS B, 10 MIL UNLESS NOTED OTHERWISE. PLACE, PROTECT, AND REPAIR PER ASTM E1643 AND MANUFACTURER'S
- INSTRUCTIONS. E. DO NOT INSTALL FOUNDATION CONCRETE UNTIL ALL FOUNDATION WORK HAS BEEN COORDINATED WITH UNDERGROUND UTILITIES.
- NOTIFY THE ENGINEER OF ALL CONFLICTS BETWEEN FOUNDATIONS AND UTILITIES. F. ALL FOUNDATIONS, OR PORTIONS THEREOF BELOW GRADE, MAY BE EARTH FORMED BY NEAT EXCAVATIONS. DO NOT PLACE
- FOUNDATIONS, SLABS, OR OTHER CONCRETE ON FROZEN SUBGRADE OR IN STANDING WATER. G. CENTER ALL FOUNDATIONS ON WALLS AND/OR COLUMNS, UNLESS NOTED OTHERWISE.
- H. RETAINING WALL (LATERAL EARTH PRESSURE) DESIGN VALUES: SOIL UNIT WEIGHT:
- 2. ACTIVE LATERAL EARTH PRESSURE: (EFPa) 45 PCF 3. PASSIVE LATERAL EARTH PRESSURE: (EFPp) 150 PCF
- 4. FRICTION COEFFICIENT (SOIL/CONCRETE)
- I. BACK FILL BEHIND RETAINING WALLS WITH AN ENGINEERED FILL CONSISTING OF CLEAN COARSE SAND. DO NOT ALLOW HEAVY EQUIPMENT WITHIN A DISTANCE TO EARTH RETAINING WALLS EQUAL TO THE HEIGHT OF RETAINED EARTH PLUS TWO FEET. USE ONLY HAND-OPERATED VIBRATORY COMPACTORS FOR COMPACTING BEHIND RETAINING WALLS.

- A. CONCRETE MUST CONFORM TO THE CONCRETE PROPERTIES SPECIFIED IN THE CONCRETE PROPERTIES TABLE. B. CONCRETE MUST HAVE ALLOWABLE UNIT SHRINKAGE OF 0.045% AT 28 DAYS (SEE ASTM C157).
- C. SLABS TO RECEIVE MOISTURE SENSITIVE FLOOR COVERINGS MUST HAVE MAXIMUM WATER/CEMENTITIOUS MATERIAL RATIO OF 0.45. D. CONCRETE CONSTRUCTION MUST CONFORM TO THE CURRENT "ACI MANUAL OF CONCRETE PRACTICE".
- E. ALL CONCRETE PLACEMENT SHALL ADHERE TO APPLICABLE SECTIONS OF ACI 305 AND ACI 306 FOR HOT WEATHER/COLD WEATHER CONCRETE PLACEMENT.
- F. CONCRETE MATERIALS MUST CONFORM TO THE FOLLOWING SPECIFICATIONS: PORTLAND CEMENT:
- AGGREGATE (NORMAL WEIGHT): ASTM C33 G. ALL REINFORCEMENT MUST CONFORM TO THE FOLLOWING SPECIFICATIONS:
- 1. ALL REINFORCING, UNO: ASTM A615 GRADE 60
- 2. EPOXY-COATED REINFORCING: H. REINFORCEMENT DETAILING:
- 1. DETAIL AND PLACE REINFORCEMENT IN ACCORDANCE WITH ACI 315. 2. DEVELOPMENT AND SPLICE LENGTHS ARE IN TENSION UNLESS NOTED OTHERWISE. REFER TO THE REINFORCING BAR LAP LENGTH
- SCHEDULE ON THE TYPICAL DETAIL SHEETS. 3. LAP WWR ONE CROSSWIRE SPACING PLUS 2".
- 4. INSTALL CORNER BARS AT ALL FOOTINGS AND WALL INTERSECTIONS TO MATCH HORIZONTAL REINFORCING SIZE AND SPACING. AT INTERSECTIONS OF CONTINUOUS SPREAD FOOTINGS, EXTEND ALL BARS TO FAR SIDE OF INTERSECTING FOOTING. I. INSTALL AND SECURE REINFORCEMENT TO PREVENT DISPLACEMENT DURING CONCRETE PLACEMENT. PROVIDE THE FOLLOWING CONCRETE COVER FOR REINFORCING ACI 318 SECTION 7.7 AND IBC TABLE 720.1, UNLESS SPECIFICALLY NOTED OTHERWISE:
- a. CAST AGAINST EARTH: b. EXPOSED TO EARTH/WEATHER: #5 & SMALLER
- c. SLABS, WALLS, JOISTS: #11 & SMALLER 5. INSTALL DOWELS TO MATCH REINFORCEMENT SIZE AND SPACING INDICATED, UNLESS NOTED OTHERWISE.
- J. CHAMFER ALL PERMANENTLY EXPOSED CONCRETE EDGES 3/4 INCH, UNLESS NOTED OTHERWISE. K. NO HOLES OR OPENINGS THROUGH FOUNDATION WALLS AND/OR FOOTINGS WITHOUT ENGINEER'S APPROVAL
- **CONCRETE PROPERTIES** STRENGTH (PSI) DURABII ITY **CLASSIFICATION** CATEGORY FOOTINGS F0, S0, W0, C1 3.000 3,000 F0, S0, W0, C1 SLAB-ON-GRADE INTERIOR

4,500

CONCRETE PROPERTIES TABLE NOTES 1. MINIMUM STRENGTH AND MAXIMUM DENSITY MEASURED AT 28 DAYS.

SLAB-ON-GRADE EXTERIOR

DO NOT EMBED ALUMINUM IN CONCRETE.

2. NWT = NORMAL WEIGHT CONCRETE 3. DURABILITY CLASSIFICATION INDICATES CONCRETE REQUIREMENTS BY EXPOSURE CLASS, REFER TO TABLE 19.3.2.1 OF ACI 318.

CONCRETE MASONRY UNIT

- A. MASONRY CONSTRUCTION MUST CONFORM WITH ACI 530.1. B. CONCRETE MASONRY UNITS (CMU) ARE LIGHTWEIGHT COMPLYING WITH ASTM C90. UNITS HAVE A MINIMUM AVERAGE NET-AREA COMPRESSIVE STRENGTH OF 2,000 PSI. MINIMUM NET AREA COMPRESSIVE STRENGTH OF MASONRY (F'M) IS 2,000 PSI.
- C. MORTAR MUST CONFORM TO ASTM C270, TYPE M OR S. D. GROUT MUST CONFORM TO ASTM C476, WITH A 28 DAY COMPRESSIVE STRENGTH EQUAL TO OR GREATER THAN THE SPECIFIED NET
- AREA COMPRESSIVE STRENGTH OF MASONRY (F'M). E. REINFORCING BARS ARE ASTM A615, GRADE 60.
- F. VERTICAL AND HORIZONTAL REINFORCING ARE CONTINUOUS AND LAPPED A MINIMUM OF 72 BAR DIAMETERS. G. POSITION AND HOLD REINFORCING STRAIGHT AS INDICATED. INSTALL REBAR POSITIONERS AT SPACING NOT TO EXCEED 200 BAR DIAMETERS, AT GROUT LIFT HEIGHTS, OR BAR SPLICE LOCATIONS, WHICHEVER IS LESS, TO HOLD REBAR IN PROPER LOCATION UNTIL
- GROUT CURES. H. INSTALL 9 GAGE LADDER TYPE HORIZONTAL JOINT REINFORCING AT 16" OC MAXIMUM SPACING UNLESS NOTED OTHERWISE. JOINT REINFORCING COMPLIES WITH ASTM A951 AND GALVANIZED PER ASTM A153, CLASS B. LAP JOINT REINFORCEMENT AT LEAST 6 INCHES
- (MUST CONTAIN AT LEAST ONE CROSS WIRE OF EACH PIECE OF REINFORCEMENT WITHIN THE LAP). LAP WITH STANDARD T- AND L-SHAPED PIECES AT INTERSECTIONS AND CORNERS.
- I. INSTALL DOWELS FROM FOUNDATIONS OR SUPPORTING CONCRETE MEMBER BELOW, SAME SIZE AND SPACING AS VERTICAL
- REINFORCING, UNLESS NOTED OTHERWISE. DOWELS HAVE STANDARD ACI HOOKS. J. FULLY GROUT ALL CELLS AND WALLS BELOW GRADE. SLUSH JOINT BETWEEN WYTHES.
- K. LOW-LIFT GROUTING PROCEDURES IN ACCORDANCE WITH ACI 530.1. L. IF HIGH-LIFT GROUTING, COMPLY WITH ACI 530.1, INCLUDING CLEANOUTS AT EACH GROUTED CELL.
- 1. DO NOT EXCEED 5 FEET GROUT POUR LIFT, UNLESS CLEANOUTS ARE PROVIDED IN THE BOTTOM COURSE OF EACH 5 FOOT LIFT. 2 MECHANICALLY VIRRATE ALL LIFTS IN EXCESS OF 1 FOOT
- 3. DO NOT STOP GROUT POUR WITHIN 1-1/2 INCHES OF BED JOINT. 4. TOTAL GROUT POUR MUST NOT EXCEED 24 FEET WHEN GROUTING THE CELLS OF HOLLOW MASONRY
- M. INSTALL MASONRY IN A RUNNING BOND PATTERN.

PRIOR TO COMPLETION OF CONSTRUCTION.

N. SHORE ALL MASONRY LINTELS UNTIL MASONRY AND GROUT HAVE SET FOR A MINIMUM OF 7 DAYS. O. MASONRY WALLS HAVE BEEN DESIGNED IN THE FINAL CONSTRUCTED CONFIGURATION ASSUMING FULL BRACING TOP, BOTTOM, AND/OR SIDE OF WALL. DURING CONSTRUCTION, BRACE ALL CMU TO RESIST ERECTION AND LATERAL LOADS THAT MAY BE APPLIED

STRUCTURAL STEEL

- A. HOT-ROLLED STEEL BARS, PLATES, SHAPES, AND SHEET PILING MUST BE NEW STEEL CONFORMING TO ASTM A6. FABRICATE AND INSTALL STEEL IN ACCORDANCE WITH AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS."
- B. STRUCTURAL STEEL IS AS FOLLOWS, UNLESS NOTED OTHERWISE 1. ALL OTHER STRUCTURAL STEEL: ASTM A36
- C. CENTER COLUMNS AND BEAMS ON GRID LINES UNLESS NOTED OTHERWISE. D. CONNECTIONS:
- STEEL CONNECTIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE REFERENCED DESIGN CRITERIA. E. WELD CONNECTIONS (UNLESS NOTED OTHERWISE):
- 1. WELDING IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE STEEL". 2. USE E70XX (SMAW), F7XX-EXXX (SAW), ER70S-X (GMAW), OR E7XT-X (FCAW) ELECTRODES FOR WELDING, UNLESS NOTED
- 3. SHOW ALL FIELD WELDS REQUIRED ON ERECTION DRAWINGS. 4. USE CONTINUOUS 1/4" FILLET WELDS UNLESS NOTED OTHERWISE.
- F. BEAR STEEL BEAMS ON MASONRY AND CONCRETE A MINIMUM OF 8 INCHES, UNLESS NOTED OTHERWISE. G. CUTS INDICATED ON THE DRAWINGS, OR AS REQUIRED FOR OTHER TRADES, MUST BE MADE IN THE SHOP AND SHOWN ON THE SHOP
- DRAWINGS. FIELD PERFORMED HOLES OR CUTS ARE NOT PERMITTED WITHOUT ENGINEER APPROVAL H. FABRICATE STRUCTURAL STEEL WITH ONE COAT OF SHOP PRIMER EXCEPT THE FOLLOWING MEMBERS: GALVANIZED SURFACES, SLIP-CRITICAL SURFACES, SURFACES TO BE FIELD WELDED, SURFACES TO RECEIVE FIRE PROOFING, OR UNLESS NOTED OTHERWISE.
- COORDINATE AREAS TO BE FIREPROOFED WITH ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION. I. GALVANIZED STRUCTURAL STEEL: ASTM A123 OR ASTM A153. GALVANIZE AFTER FABRICATION. GALVANIZE ALL EXTERIOR EXPOSED STEEL, UNLESS NOTED OTHERWISE. REPAIR DAMAGED GALVANIZED COATINGS IN ACCORDANCE WITH ASTM A780. J. UNLESS NOTED OTHERWISE, THE TOP OF ALL STEEL COLUMNS ARE FABRICATED WITH A STEEL CAP PLATE - MINIMUM CAP PLATE DIMENSIONS MATCH COLUMN WIDTH AND DEPTH, AND MINIMUM THICKNESS OF CAP PLATE EQUALS COLUMN WEB THICKNESS (1/2"
- K. COORDINATE THE EXACT LOCATION AND SIZE OF ALL OPENINGS FOR MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO FABRICATION.
- L. REFERENCE THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL STEEL (IF ANY) NOT INDICATED ON THE STRUCTURAL DRAWINGS.

COLD-FORMED STEEL FRAMING

- A. COLD-FORMED STEEL FRAMING FOR THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" (AISI S100).
- B. DETAIL MEMBERS AND CONNECTIONS FOR ALL FRAMING CONDITIONS, INCLUDING WALLS, CORNERS, HEADERS, AND JAMBS. SOME CONDITIONS MAY REQUIRE MODIFICATION OF COLD-FORMED FRAMING MEMBERS (SUCH AS NOTCHING OR REVISING SIZES) OR MULTIPLE
- STUDS TO SUPPORT INCREASED LOADS. CONTRACTOR COORDINATE ALL CONDITIONS, CONNECTIONS, AND DETAILS. C. FABRICATION AND INSTALLATION MUST BE IN ACCORDANCE WITH AISI "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" AND MANUFACTURER INSTRUCTIONS. INSTALL MANUFACTURER'S RECOMMENDED STANDARD TRACK, CLIP

ANGLES, BRACING, REINFORCEMENTS, FASTENERS, AND ACCESSORIES FOR THE APPLICATIONS INDICATED AND AS NEEDED FOR A

- COMPLETE FRAMING SYSTEM. TEMPORARY (CONSTRUCTION) BRACING OF FRAMING MEMBERS (PRIOR TO SHEATHING INSTALLATION) IS BY THE CONTRACTOR PER AISI AND MANUFACTURER RECOMMENDATIONS. D. COLD-FORMED STEEL MATERIAL: ASTM A1003 STEEL SHEET WITH G60 GALV COATING CONFORMING TO ASTM A653, WITH A MINIMUM YIELD STRENGTH OF 33 KSI (USE 50 KSI FOR 54 MILS AND THICKER) UNLESS NOTED OTHERWISE.
- E. MEMBER SIZES INDICATED ARE PER THE "STEEL STUD MANUFACTURERS ASSOCIATION" (SSMA). COMPONENTS SHOWN ARE STRUCTURAL MEMBERS (33 MIL OR THICKER), UNLESS NOTED OTHERWISE. NON-STRUCTURAL MEMBERS AND DRYWALL GAGES ARE NOT PERMITTED.
- F. SCREWS ARE NON-CORROSIVE NO 8-18 (DIA=0.125") OR LARGER, UNLESS NOTED OTHERWISE. DO NOT USE STAINLESS STEEL OR COPPER-COATED FASTENERS. G. WELDING: AWS D1.3 "STRUCTURAL WELDING CODE-SHEET STEEL". CONSULT MANUFACTURER FOR EQUIPMENT RECOMMENDATIONS AND
- PROPER ELECTRODE SELECTION. H. INSTALL MINIMUM OF THREE (3) WALL STUDS AT CORNERS AND INTERSECTING STUD WALLS (UNLESS OTHERWISE INDICATED).
- PREPUNCHED HOLES CANNOT BE LOCATED WITHIN 10 INCHES FROM WALL STUD ENDS. J. TRACKS ARE THE SAME DEPTH AS STUDS OR JOISTS, UNLESS NOTED OTHERWISE. CONNECT TRACKS TO STUD AND/OR JOIST SUPPORTS AT
- 16" OC MAXIMUM, ON EACH SIDE. ALIGN WALL STUD FRAMING WITH SUPPORTED STUD/JOIST MEMBERS ABOVE. K. DO NOT SPLICE MEMBERS UNLESS OTHERWISE INDICATED. FASTEN MULTI-PLY MEMBERS TOGETHER USING TACK WELDS OR #10 SCREWS AT 12" OC MAXIMUM SPACING, UNLESS NOTED OTHERWISE.

POST-INSTALLED ANCHORS

- A. ONLY USE POST-INSTALLED ANCHORS WHERE SPECIFIED ON THE DRAWINGS.
- B. OBTAIN APPROVAL FROM THE ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED
- C. LOCATE EXISTING REBAR, REINFORCING, AND ANCHORS PRIOR TO DRILLING. DO NOT DAMAGE OR DISTURB EXISTING REBAR,
- REINFORCING OR ANCHORS. D. INSTALL ANCHORS ACCORDING TO MANUFACTURER'S INSTRUCTIONS, INCLUDING, BUT NOT LIMITED TO: EXPIRATION DATE, INSTALLATION TEMPERATURE, DRILLING METHOD, HOLE SIZE, HOLE DEPTH, HOLE CLEANING, MIXING PROCEDURE, ANCHOR
- INSTALLATION, AND CURING E. FOR PROJECTS MEETING IBC 2012 OR LATER, ACI/CRSI ADHESIVE ANCHORS INSTALLER CERTIFICATION IS REQUIRED FOR ALL
- INSTALLERS OF ADHESIVE ANCHORS IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATION. PROOF OF CERTIFICATION OR ON-SITE TRAINING FOR ALL ADHESIVE ANCHOR INSTALLERS SHALL BE PROVIDED TO THE EOR PRIOR TO INSTALLATION.
- F. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR MINIMUM EDGE DISTANCES AND SPACING. G. UNLESS NOTED OTHERWISE, EMBED ANCHORS IN THE APPROPRIATE SUBSTRATE WITH A MINIMUM EMBEDMENT OF 8 TIMES THE
- NOMINAL ANCHOR DIAMETER OR THE EMBEDMENT REQUIRED TO SUPPORT THE INTENDED LOAD. H. ADHESIVE ANCHOR DESIGN BOND STRENGTH IS BASED ON CRACKED CONCRETE, ACI 355.4 TEMPERATURE CATEGORY B, AND INSTALLATIONS INTO DRY HOLES DRILLED USING A HAMMER DRILL INTO CONCRETE CURED FOR AT LEAST 21 DAYS AND NOT EXPOSED
- TO WATER FOR THE PRECEDING 14 DAYS. ADHESIVE ANCHORS MUST BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER
- PER ACI 318. I. INSPECT ANCHOR INSTALLATION PER APPLICABLE BUILDING CODE AND SPECIAL INSPECTION REQUIREMENTS J. SUBMIT SUBSTITUTION REQUESTS TO THE STRUCTURAL ENGINEER, INCLUDING CALCULATIONS PREPARED AND SEALED BY A
- REGISTERED PROFESSIONAL ENGINEER SHOWING THE SUBSTITUTED PRODUCT WILL ACHIEVE AN EQUIVALENT CAPACITY USING THE APPROPRIATE DESIGN PROCEDURE REQUIRED BY THE BUILDING CODE K. NON-ADHESIVE ANCHORS IN NEW CONCRETE SHALL NOT BE INSTALLED UNTIL CONCRETE HAS CURED A MINIMUM OF 7 DAYS AND
- SHALL NOT BE LOADED PRIOR TO CONCRETE CURING FOR 28 DAYS (UNLESS OTHERWISE SPECIFIED BY MANUFACTURER). L. INSTALL ANCHORS PER THE MANUFACTURER PRINTED INSTALLATION INSTRUCTIONS (MPII), AS INCLUDED IN THE ANCHOR PACKAGING. M. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THE ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF ANCHOR

SPECIAL INSPECTIONS AND TESTING

INSTALLATION.

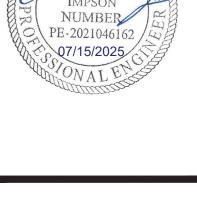
- A. SPECIAL INSPECTIONS AND TESTING ARE PERFORMED IN ACCORDANCE WITH IBC CHAPTER 17 AND LOCAL JURISDICTION PROVISIONS, BY AN INDEPENDENT INSPECTION AND TESTING AGENCY. THE SPECIAL INSPECTOR MUST OBSERVE AND TEST THE WORK FOR
- CONFORMANCE TO THE CONTRACT DOCUMENTS. B. THE SPECIAL INSPECTOR MUST FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OR ARCHITECT OF RECORD, AND ALL OTHER DESIGNATED INDIVIDUALS. ALL DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE
- CONTRACTOR FOR CORRECTION, THEN, IF NOT CORRECTED, TO THE PROPER DESIGN AUTHORITY AND THE BUILDING OFFICIAL C. THE SPECIAL INSPECTOR MUST SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK IS. TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE CONTRACT DOCUMENTS, SOILS REPORT, AND APPLICABLE WORKMANSHIP OF THE BUILDING CODE.

F2, S0, W0, C1

- A. CONTRACTOR MUST REVIEW AND STAMP ALL SHOP DRAWINGS BEFORE SUBMITTING FOR REVIEW. SUBMIT SHOP DRAWINGS TO THE ARCHITECT AND/OR ENGINEER FOR REVIEW. FABRICATE AND CONSTRUCT FROM THE REVIEWED SUBMITTALS. ALLOW 10 BUSINESS DAYS FOR EACH SUBMITTAL REVIEW UNLESS AN ALTERNATE REVIEW TIME IS AGREED UPON BY ALL PARTIES. IN THE EVENT MULTIPLE
- SUBMITTALS ARE SUBMITTED AT THE SAME TIME, THE CONTRACTOR MUST INDICATE WHICH SUBMITTALS HAVE PRIORITY. B. MAINTAIN A RECORD SET OF APPROVED SHOP DRAWINGS IN THE FIELD. C. SUBMIT IN WRITING ANY DEVIATION FROM, ADDITION TO, SUBSTITUTION FOR, OR MODIFICATION TO, THE STRUCTURE OR ANY PART OF
- THE STRUCTURE DETAILED, TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS SUBMITTED FOR REVIEW DO NOT CONSTITUTE
- "IN-WRITING" UNLESS IT IS CLEARLY NOTED SPECIFIC CHANGES ARE BEING REQUESTED D. PREPARE A LIST AND SCHEDULE OF ALL STRUCTURAL SUBMITTALS PRIOR TO CONSTRUCTION.
- E. SUBMIT THE FOLLOWING SHOP DRAWINGS FOR THE ENGINEER'S REVIEW: CONCRETE MIX DESIGNS
- 2. REINFORCING STEEL
- 3. STRUCTURAL STEEL, SHOP AND ERECTION DRAWINGS
- F. THE OMISSION FROM THE SHOP DRAWINGS OF ANY MATERIALS REQUIRED BY THE CONTRACT DOCUMENTS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS, REGARDLESS OF WHETHER THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED. G. THE USE OF ELECTRONIC FILES OR REPRODUCTIONS OF CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR,
- ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES THEM TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.

ARCH COA #2015008774 ENG COA #2005026904







Suite 2202 Norfolk, VA 23510 (757) 965-5710 BPA Job No. 250372

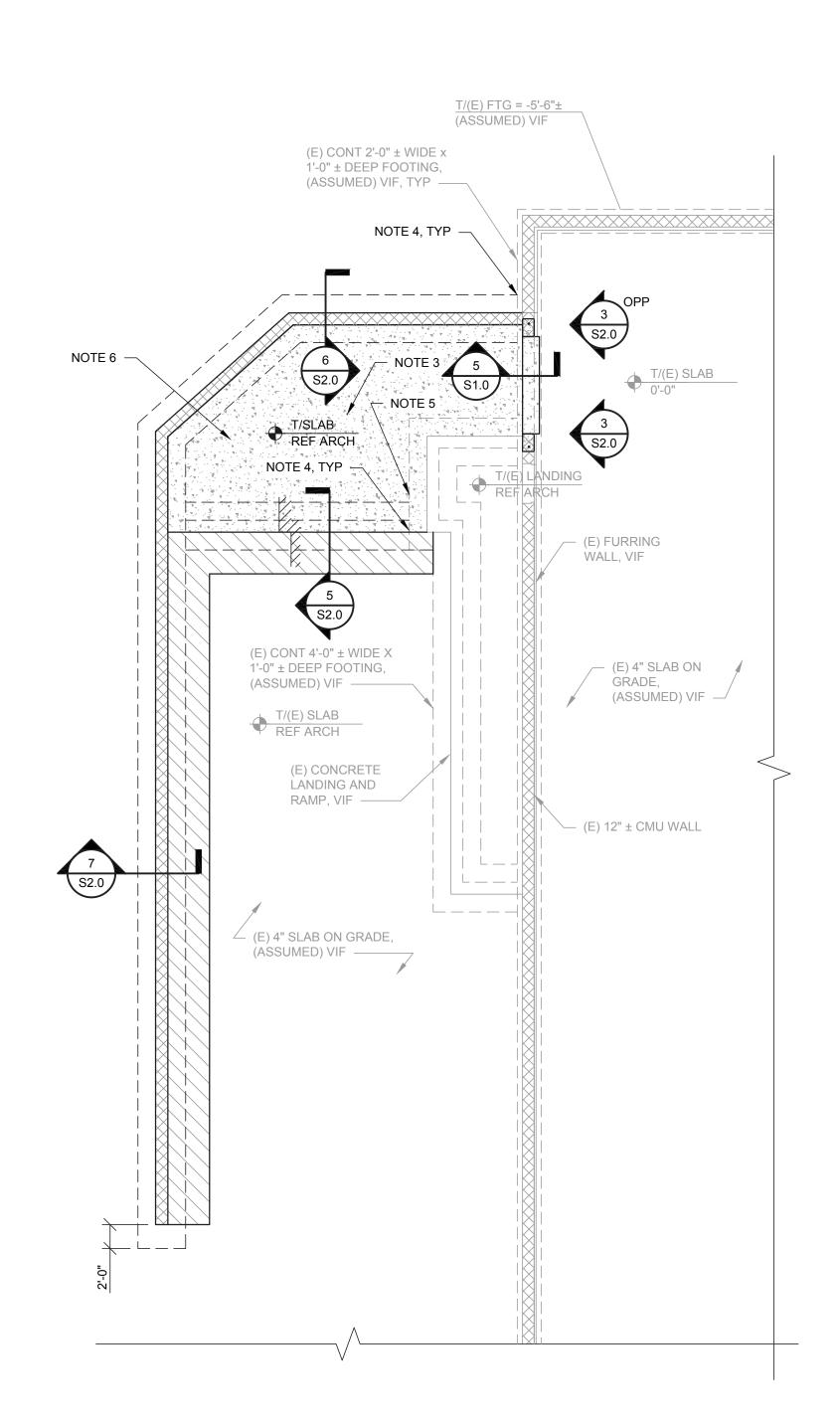
999 Waterside Drive

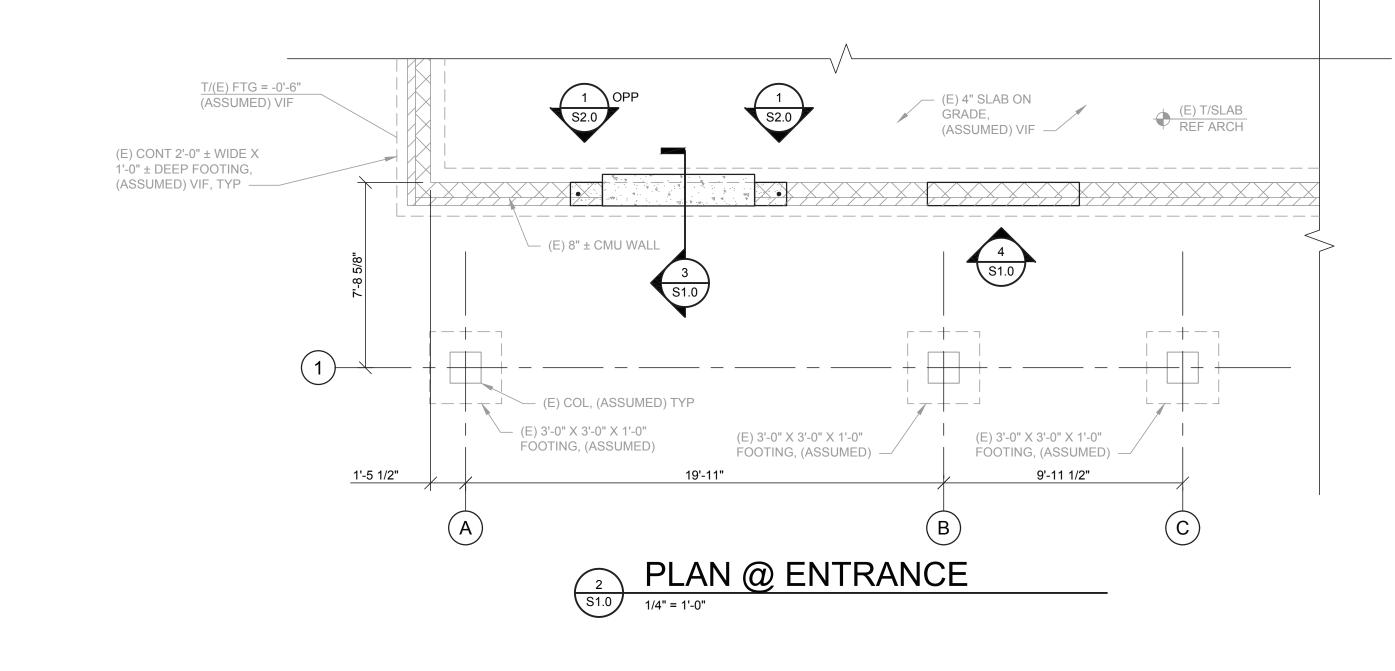
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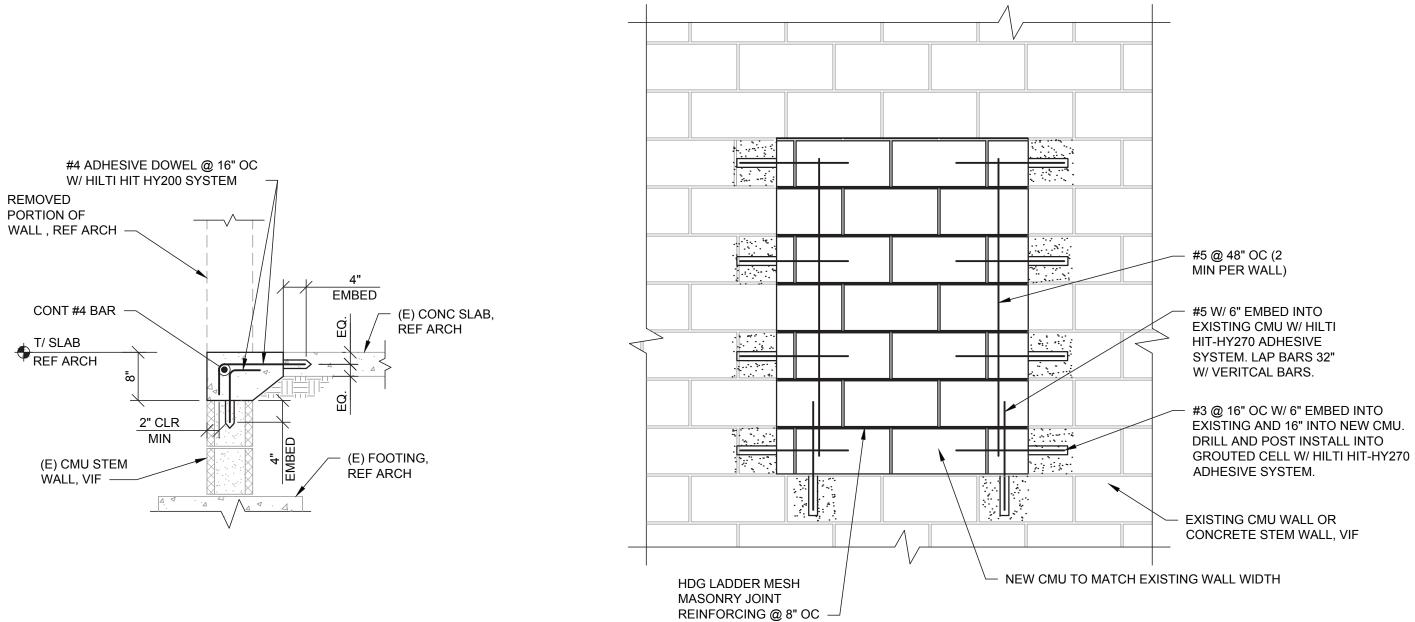


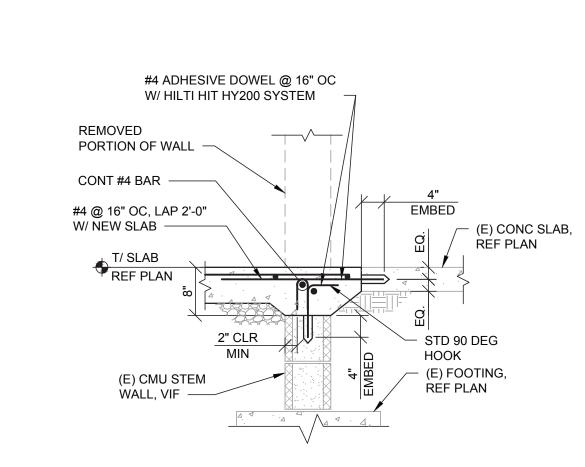
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PROJECT NO: 2025.0167 DATE: 07.14.2025















EXISTING PARTIAL FOUNDATION PLAN

PLAN NOTES:

- 1. EXISTING STRUCTURAL INFORMATION SHOWN IS BASED UPON INFORMATION PROVIDED BY INTERPLAN, LLC. FIELD VERIFY ALL EXISTING FRAMING SIZES, CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION OF NEW MATERIAL. FIELD VERIFY AND CONTACT ENGINEER WITH DISCREPANCIES PRIOR TO FABRICATION OF NEW MATERIAL.
- 2. REF 7/S2.0 AND 8/S2.0 FOR DISPLAY ANCHORAGE DETAIL. 3. 6" CONCRETE SLAB REINFORCED WITH #3 @12" EACH WAY OVER 4" GRANULAR BASE ON PREPARED SUBGRADE.
- 4. TIE-IN NEW FOUNDATION TO EXISTING FOUNDATION WITH #5 ADHESIVE DOWEL @ 12" OC
- USING HILTI HY200 SYSTEM W/ 8" EMBED. 5. TIE-IN NEW SLAB ON GRADE TO EXISTING SLAB ON GRADE WITH #5 ADHESIVE DOWEL @ 12" OC USING HILTI HY200 SYSTEM W/ 4" EMBED. LOCATE REBAR 2" FROM T/SLAB. 6. CONTROL JOINT SHALL BE PLACED AT 15 FEET OC MAX. SLAB UNITS CREATED BY JOINT LAYOUTS SHALL BE AS SQUARE AS POSSIBLE & WITH A MAXIMUM ASPECT RATIO OF 1.25 TO 1. IN ADDITION CONTROL JOINTS SHALL BE LOCATED AT THE CORNERS OF ALL

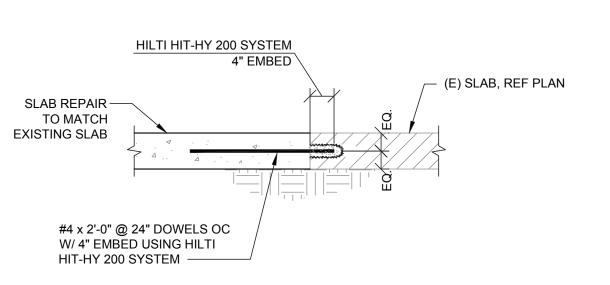
ALL EXTERNALLY EXPOSED STEEL SHALL BE HOT-DIPPED GALVANIZED PRIOR TO INSTALLATION.

ISOLATION POCKETS.

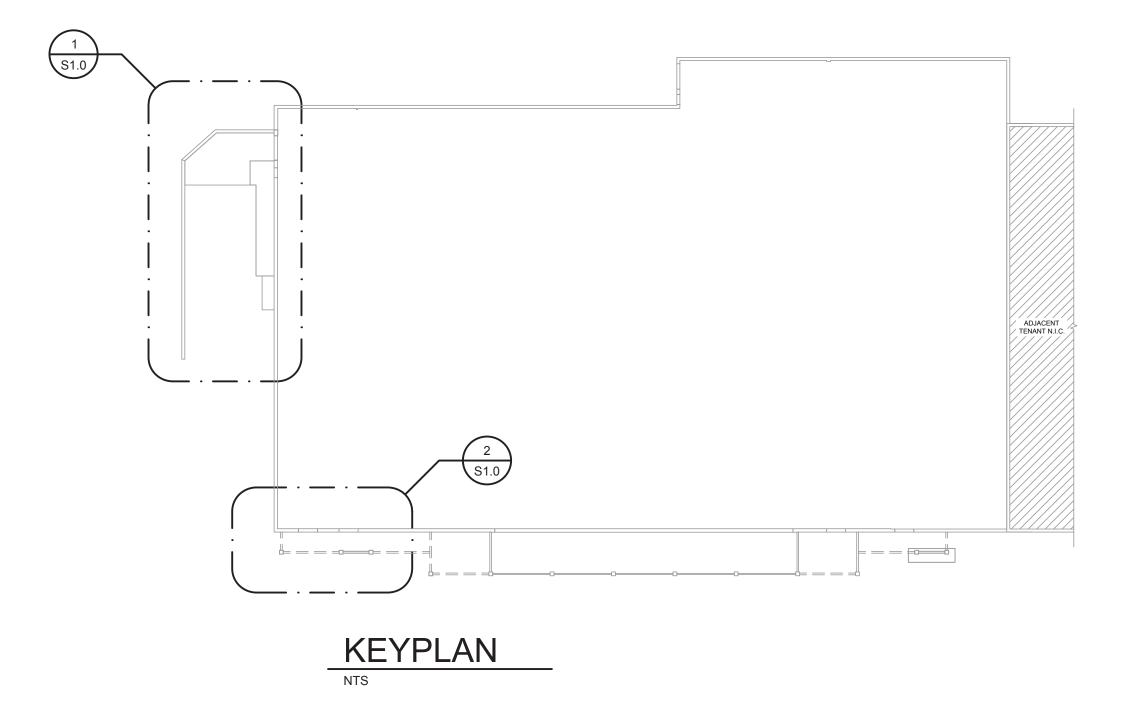
NOTE REGARDING EXISTING CONSTRUCTION:
FIELD VERIFY STRUCTURAL COMPONENTS SHOWN ON THESE DRAWINGS ARE ACCURATE IN REPRESENTING WHAT IS CURRENTLY BUILT. NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF ANY AS-BUILT CONDITION DIFFERS FROM WHAT IS DEPICTED ON THESE DOCUMENTS

LEGEND:

- DENOTES EXISTING BUILDING ELEMENT, VIF
- DENOTES VERIFY IN FIELD
- DENOTES APPROXIMATE DIMENSION / ELEVATION, VIF
- DENOTES NEW CMU
- DENOTES NEW CONCRETE
- DENOTES (E) CMU WALL, VIF
- DENOTES EXTERNAL CONCRETE SLAB REPAIR, REF 6/S1.0







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> ARCHITECTURE **ENGINEERING**

LOMBARD, IL 60148

1 EAST 22ND STREET, SUITE 400







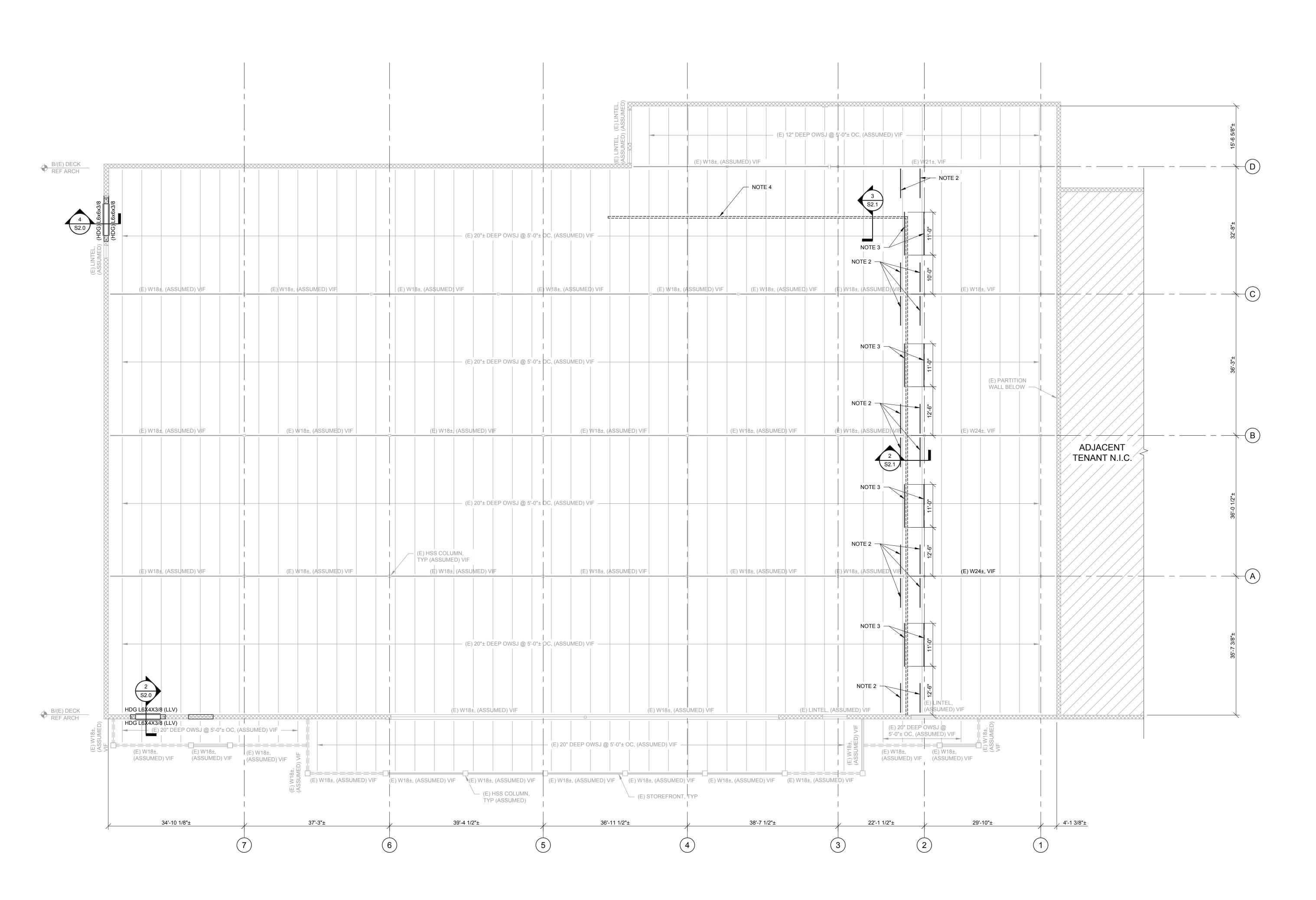
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> EXISTING PARTIAL FOUNDATION PLAN AND DETAILS



EXISTING ROOF FRAMING PLAN S1.1 3/32" = 1'-0"

PLAN NOTES:

- 1. EXISTING STRUCTURAL INFORMATION SHOWN IS BASED UPON INFORMATION PROVIDED BY INTERPLAN, LLC. FIELD VERIFY ALL EXISTING FRAMING SIZES, CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION OF NEW MATERIAL. FIELD VERIFY AND CONTACT ENGINEER WITH DISCREPANCIES PRIOR TO FABRICATION OF NEW MATERIAL.
- 2. SHEAR REINFORCING, REF 6/S3.0. 3. MOMENT REINFORCING, REF 6/S3.0.
- 4. HUNG SOFFIT BELOW REF ARCH FOR EXTENTS AND LOCATION.

NOTE: ALL EXTERNALLY EXPOSED STEEL SHALL BE HOT-DIPPED GALVANIZED PRIOR TO INSTALLATION.

NOTE REGARDING EXISTING CONSTRUCTION:
FIELD VERIFY STRUCTURAL COMPONENTS SHOWN ON THESE DRAWINGS ARE ACCURATE IN REPRESENTING WHAT IS CURRENTLY BUILT. NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF ANY AS-BUILT CONDITION DIFFERS FROM WHAT IS DEPICTED ON THESE DOCUMENTS

(E) DENOTES EXISTING BUILDING ELEMENT, VIF

VIF DENOTES VERIFY IN FIELD

DENOTES APPROXIMATE DIMENSION / ELEVATION, VIF

OWSJ DENOTES OPEN-WEB STEEL JOIST

DENOTES (E) 12"± CMU WALL

♦ INTERPLAN

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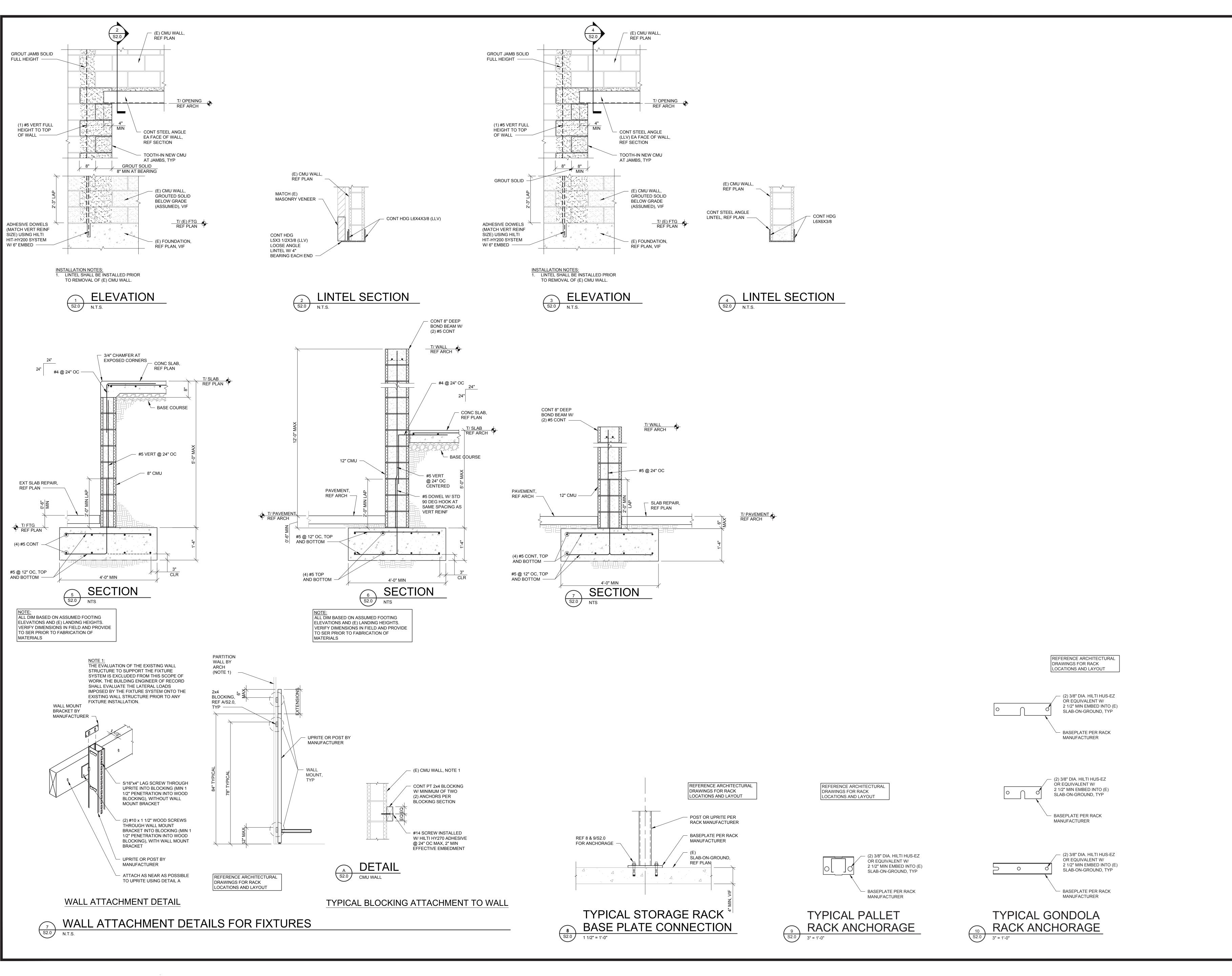


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ROOF FRAMING PLAN CHECKED: BF DRAWN: JC



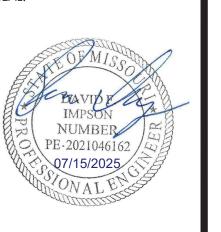
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ENG COA #2005026904

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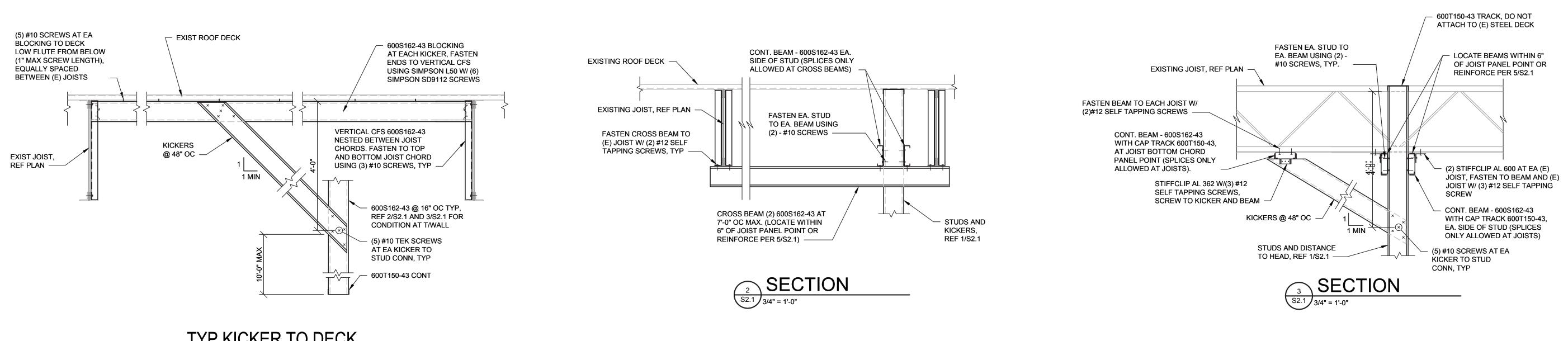
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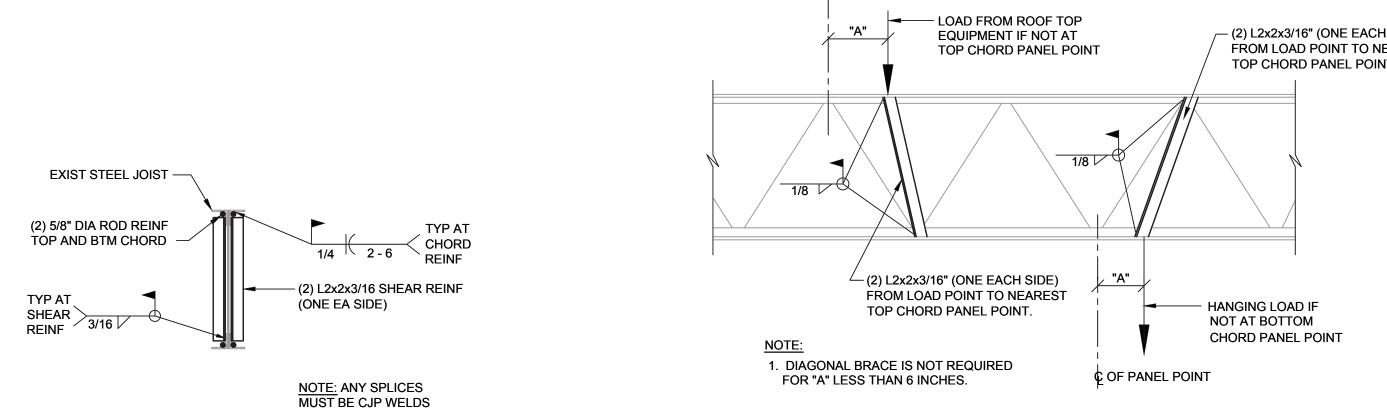
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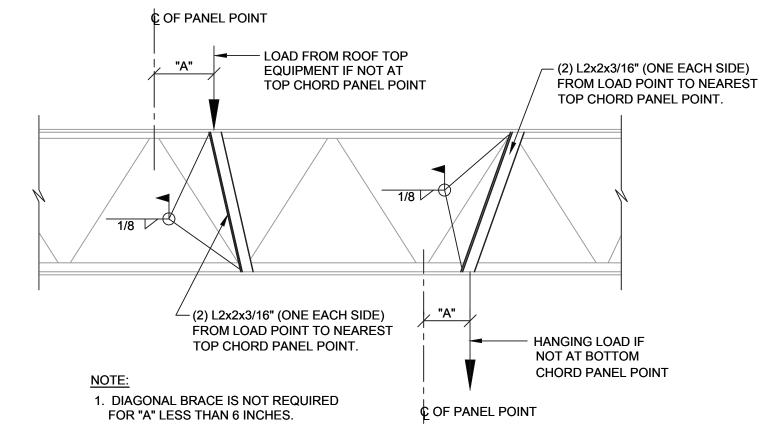
S2.0 SECTIONS AND DETAILS





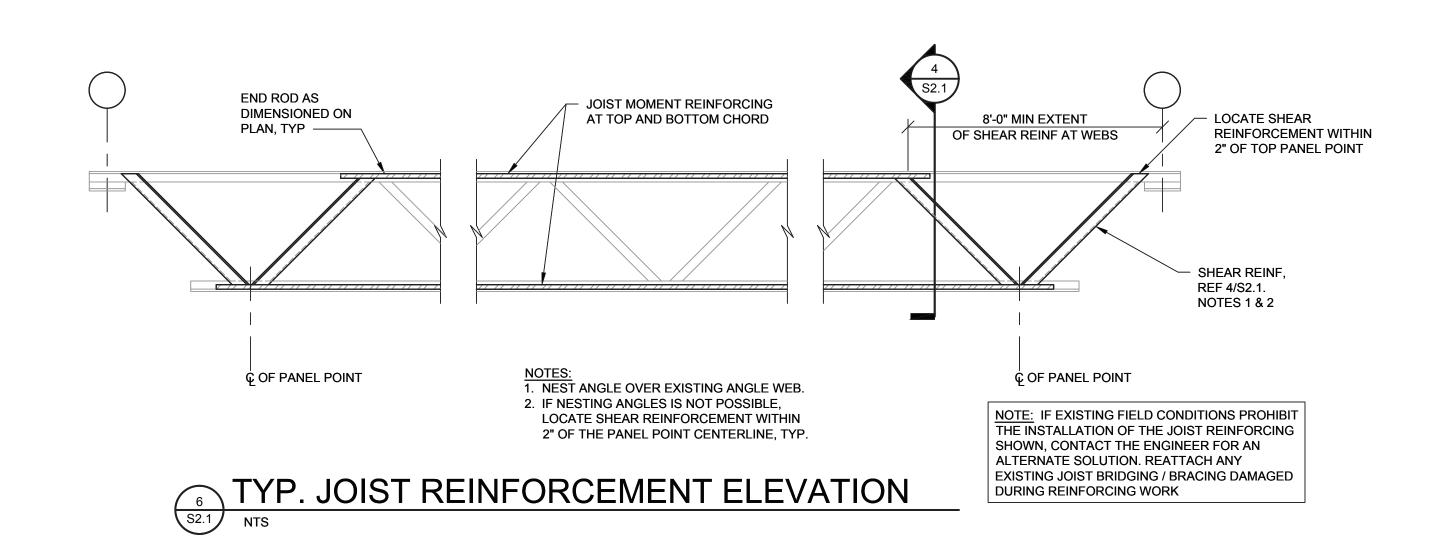


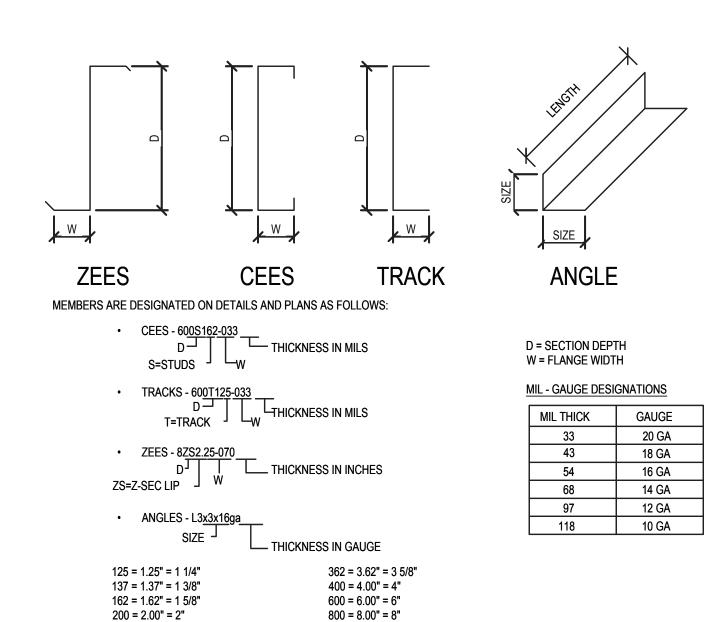




TYPICAL STEEL JOIST REINFORCEMENT FOR CONCENTRATED LOADS DETAIL

S2.1 NTS



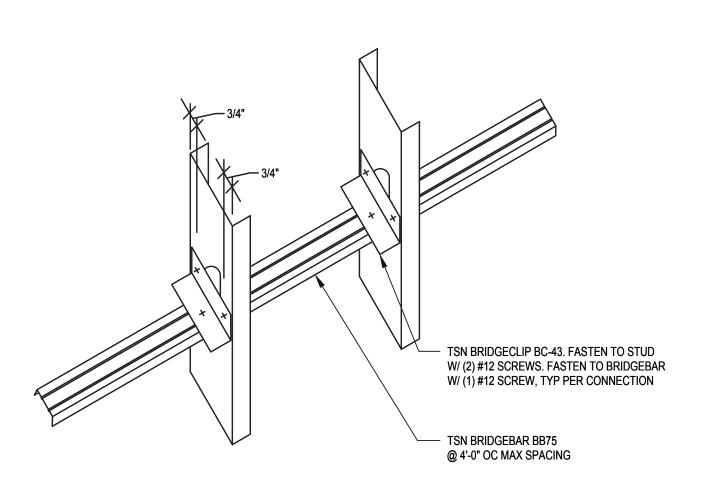


1000 = 10.00" = 10" 1200 = 12.00" = 12"

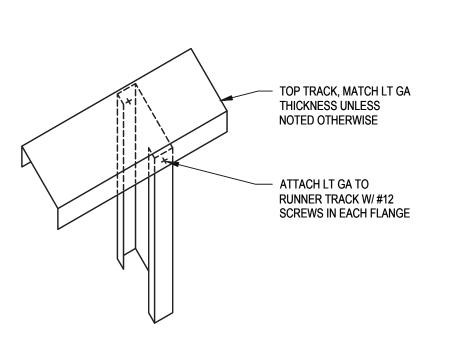
LIGHT GAUGE MEMBER
DESIGNATION LEGEND

250 = 2.50" = 2 1/2"

JOIST



LATERAL BRIDGING



STUD TO TOP TRACK 9 CONNECTION S2.1 NTS

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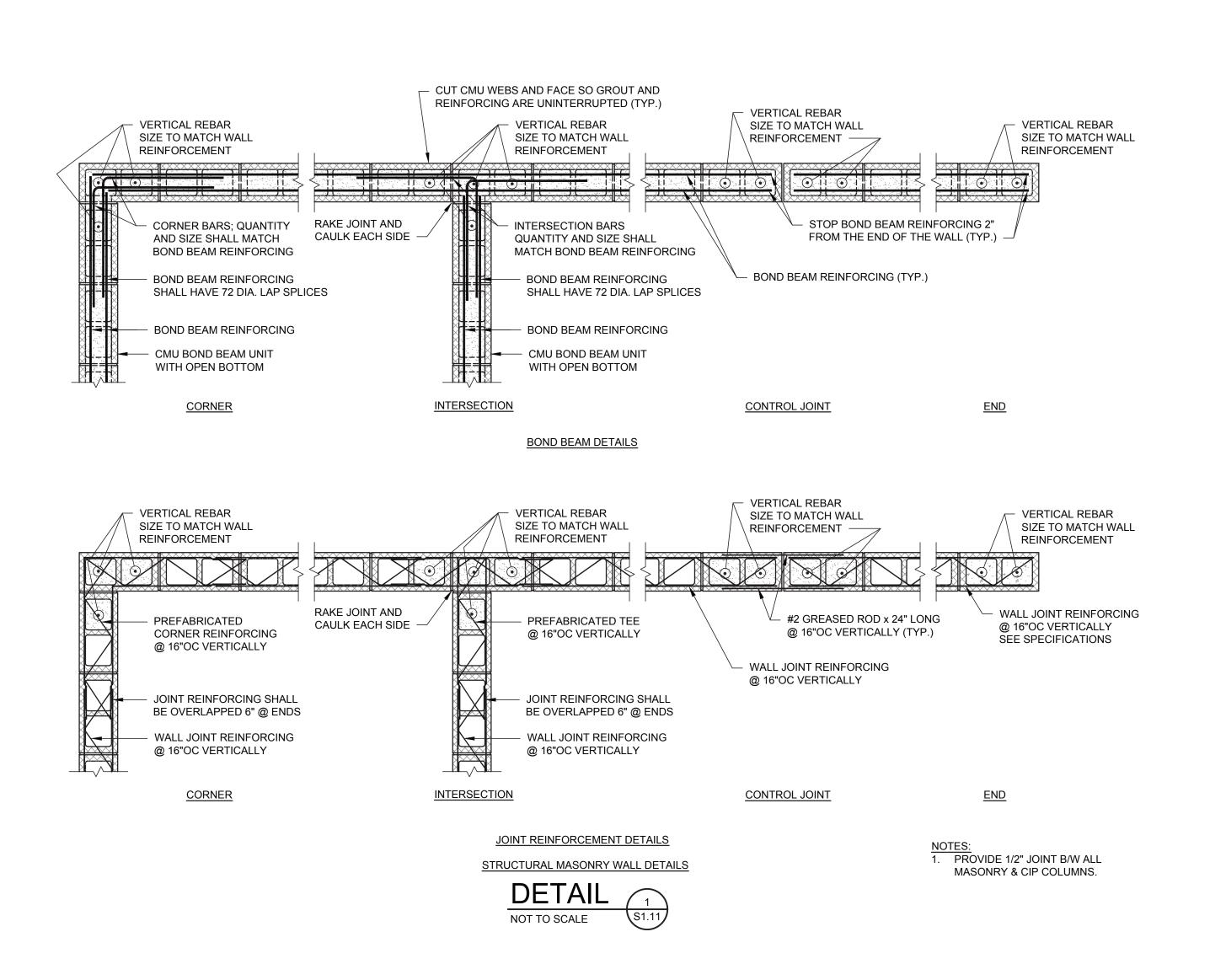
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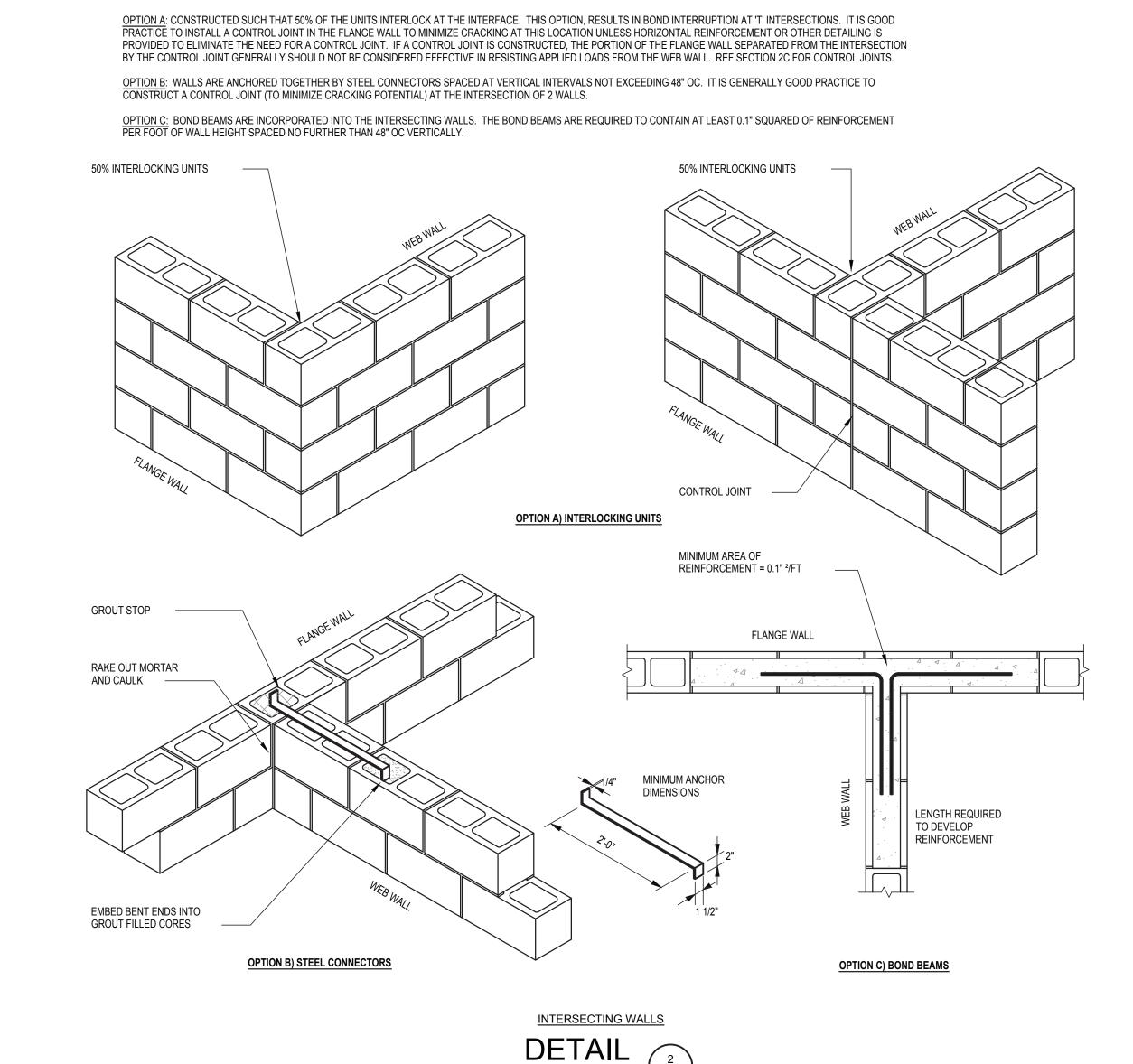


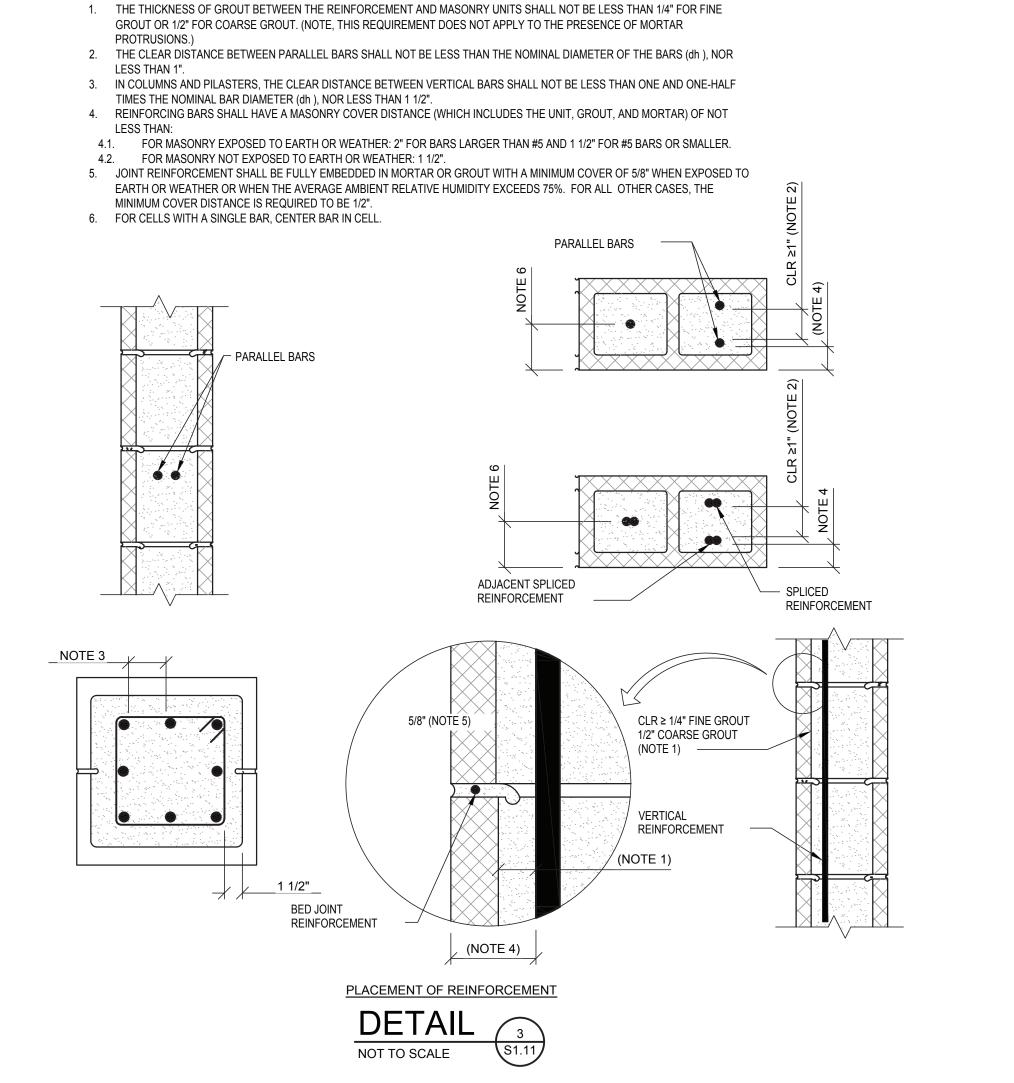
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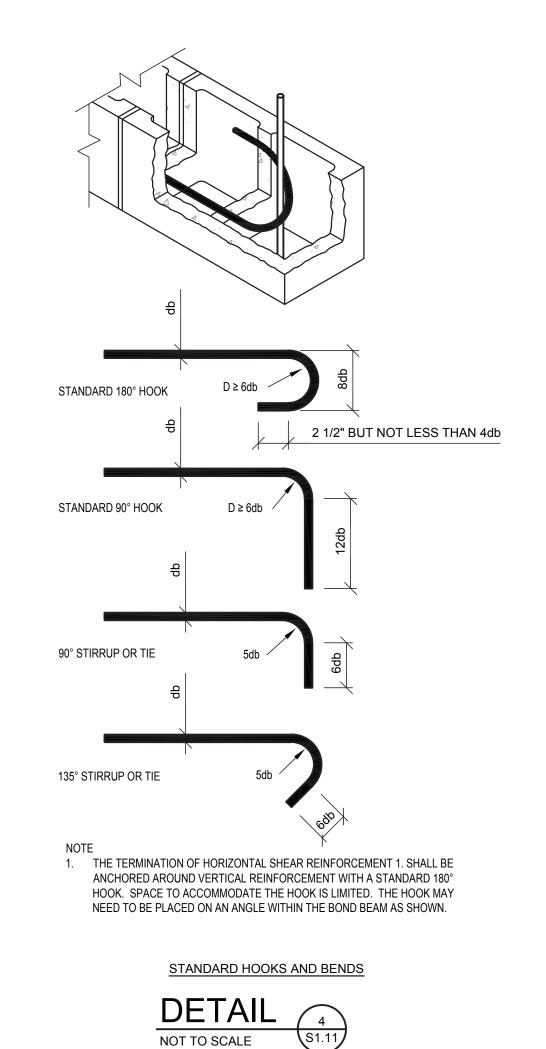
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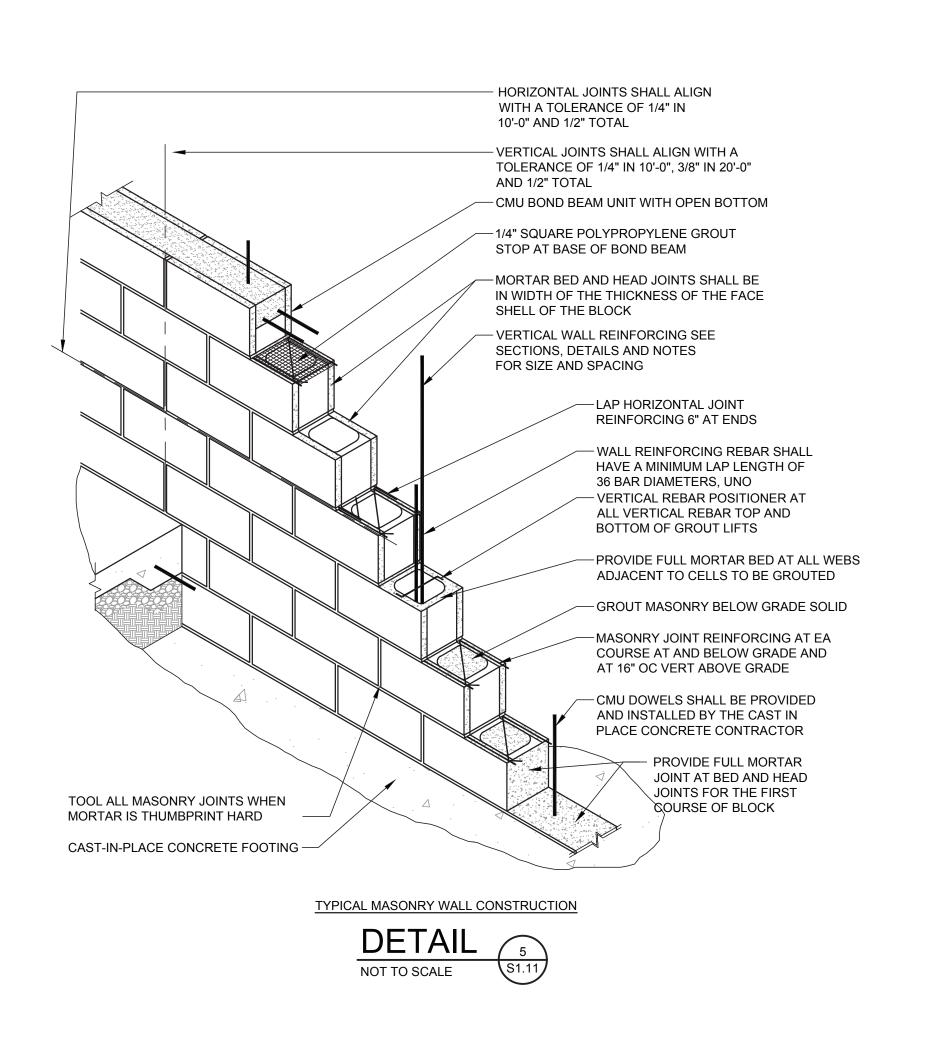
SECTIONS AND DETAILS

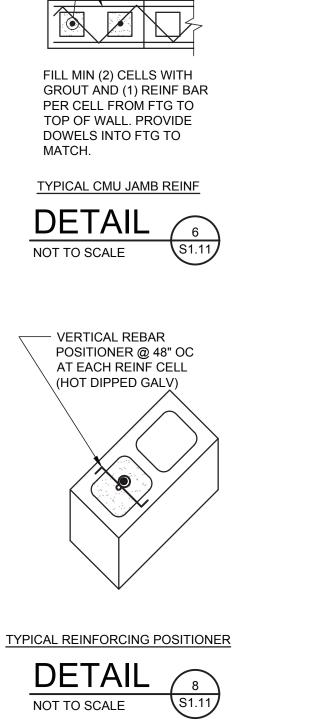










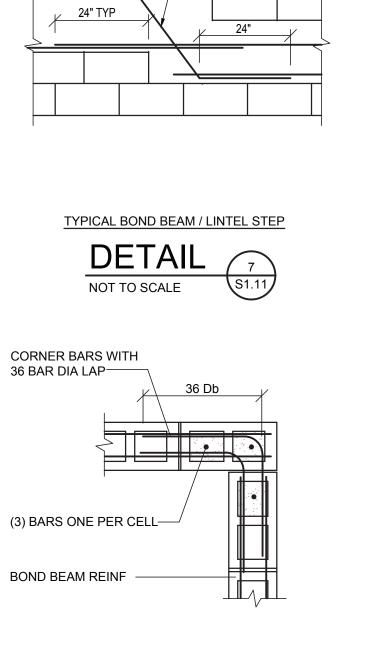


(2) #6 BARS VERT

END WALL REINF

STANDARD GAGE HORIZ

∖ JT REINF AT 16" OC UNO



TYPICAL CMU CORNER REINF

DETAIL 9
NOT TO SCALE S1.11

— BENT BARS TO MATCH

BOND BEAM REINF

INTERPLAN INTERPLAN LLC

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ENG COA #2005026904

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S2.2
SECTIONS AND DETAILS

TO APPLICABLE CODES TABLE ON DRAWING SHEET A001.

THE WORK OF EACH OF THE ELECTRICAL SECTIONS INCLUDES FURNISHING AND INSTALLING THE MATERIAL, EQUIPMENT, AND SYSTEMS COMPLETE AS SPECIFIED AND/OR AS INDICATED ON THE DRAWINGS. THE ELECTRICAL INSTALLATIONS, WHEN FINISHED, SHALL BE COMPLETE AND COORDINATED, READY FOR SATISFACTORY SERVICE

NATIONAL ELECTRICAL CODE AND THE 1990 AMERICANS WITH DISABILITIES ACT. REFER

- FINISHED, SHALL BE COMPLETE AND COORDINATED, READY FOR SATISFACTORY SERVICE.

 B THE WORK UNDER THIS CONTRACT SHALL BE DONE IN STRICT ACCORDANCE WITH ALL APPLICABLE MUNICIPAL, STATE AND OTHER LOCAL CODES, THE LATEST EDITION OF THE
- C THE CONTRACTOR SHALL MAKE APPLICATION AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS AS REQUIRED UNDER THE ABOVE CODES.
- D THE GENERAL ARRANGEMENT OF CONDUIT, WIRING AND EQUIPMENT SHALL BE AS IDENTIFIED ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE SITE, STRUCTURAL, AND FINISH CONDITIONS AFFECTING HIS WORK AND SHALL ARRANGE SUCH WORK ACCORDINGLY, PROVIDING SUCH FITTINGS AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH CONDITIONS.
- E THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO THE COMPLETE INSTALLATION OF THE ELECTRICAL WORK AND RELATED SYSTEMS AS INDICATED ON THE DRAWINGS OR AS NECESSARY TO PROVIDE A COMPLETE SYSTEM.
- F THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY WIRING, LIGHTING AND CONSTRUCTION POWER FOR ALL TRADES AS REQUIRED TO COMPLETE THE PROJECT.
- G ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED AND COMPLETED IN A FIRST CLASS WORKMANLIKE MANNER. ALL MATERIALS SHALL BE NEW AND THE BEST OF THEIR RESPECTIVE KINDS. ALL EQUIPMENT AND SYSTEMS SHALL BE APPROVED BY UL OR SIMILAR NATIONALLY ACCEPTED TESTING AGENCY SUCH AS ETL TESTING
- H THE CONTRACTOR SHALL VISIT THE SITE AND OBSERVE THE CONDITIONS UNDER WHICH THE WORK SHALL BE COMPLETED. NO ALLOWANCE WILL BE MADE SUBSEQUENTLY IN THIS CONTRACT FOR ANY ERROR OR NEGLIGENCE IN THE CONTRACTOR'S PART.
- I THE CONTRACTOR SHALL SUBMIT DETAILED DIMENSIONED SHOP DRAWINGS, TOGETHER WITH WIRING DIAGRAMS, SPECIFICATIONS, OPERATING DATA, AND/OR CATALOG CUTS FOR ALL EQUIPMENT.
- J A THOROUGH TEST SHALL BE MADE PRIOR TO ENERGIZING THE SYSTEM TO DEMONSTRATE THAT THE SYSTEM IS ENTIRELY FREE FROM GROUND FAULTS, SHORT CIRCUITS, AND OPEN CIRCUITS; THAT THE RESISTANCE TO GROUND ALL NON-GROUNDED CIRCUITS, BEFORE AND AFTER CONNECTION OF EQUIPMENT MEETS THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND IEEE STANDARDS/RECOMMENDATIONS.
- K IDENTIFY ALL MOTOR STARTERS, SWITCHES, CONTROLS, PANELBOARDS, SWITCHBOARDS, TERMINAL BOARDS, CONTROL CENTERS AND OTHER EQUIPMENT. IDENTIFICATION PLATES SHALL BE LAMINATED PLASTIC, BLACK ON WHITE ENGRAVED LETTERS. LETTERING FOR CONTROL CENTERS, CONTROL PANELS, METERING AND INSTRUMENT PANELS SHALL BE 3/8" HIGH.
- L THE MATERIAL AND WORKMANSHIP OF ALL PARTS OF THE ELECTRICAL INSTALLATION SPECIFIED HEREIN SHALL BE GUARANTEED UNCONDITIONALLY FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE.
- M UPON COMPLETION OF THE ELECTRICAL INSTALLATION, THE CONTRACTOR SHALL DELIVER TO THE OWNER TWO (2) SETS OF PRINTS OF AS-BUILT ELECTRICAL DRAWINGS WHICH SHALL BE LEGIBLY MARKED IN RED PENCIL TO SHOW ALL ADDITIONS, CHANGES AND DEPARTURES OF THE INSTALLATION AS COMPARED WITH THE ORIGINAL DESIGN. THEY SHALL BE SUITABLE FOR USE IN PREPARATION OF RECORD DRAWINGS.
- N THE CONTRACTOR SHALL PREPARE THREE (3) COPIES OF A RECORD AND INFORMATION MANUAL. THE MANUAL SHALL BE BOUND IN A THREE-RING LOOSE-LEAF BINDER.
 PROVIDE THE FOLLOWING DATE IN THE BOOKLET:

 1. CUTS OF ALL EQUIPMENT WITH TECHNICAL SPECIFICATIONS.
 - OPERATION AND MAINTENANCE PROCEDURES.
 SERVICING INSTRUCTIONS.
 - COPIES OF PANELBOARD DIRECTOR!
 COPIES OF WARRANTIES.
- LIST OF LAMPS SHOWING QUANTITY, TYPE, WATTAGE, MANUFACTURER, CATALOG NUMBER, ETC., FOR EACH FIXTURE TYPE.
 COPIES OF TEST REPORTS.
- O EXACT LOCATIONS OF OUTLETS SHALL BE COORDINATED WITH DOOR SWINGS AND VARIOUS PROTRUSIONS. MOUNTING HEIGHTS OF THE VARIOUS ELECTRICAL DEVICES SHALL BE AS FOLLOWS:

SWITCHES
RECEPTACLES
TELEPHONE OUTLETS
EXIT LIGHTS

20" AFF TO CENTER OF BOX
20" AFF TO CENTER OF BOX
CENTERED BETWEEN CEILING AND TOP OF
DOOR (UP TO 1'-0" ABOVE DOOR), SURFACE
OR CEILING MOUNTED AS SHOWN.

46" AFF TO CENTER OF BOX

- DISCONNECTING SWITCHES 52" AFF TO CENTER OF SWITCH
- SIZED AS REQUIRED TO MEET THE NEC AND PROVIDE ALL WIRING CONNECTIONS FROM SOURCE. PROVIDE REQUIRED VOLTAGE.

 Q SEAL ALL CONDUIT PENETRATIONS THRU RATED WALLS AND FLOORS TO MAINTAIN FIRE

PROVIDE A DISCONNECT SWITCH FOR EACH MOTOR AS SHOWN ON THE DRAWINGS

- INTEGRITY. REFER TO ARCHITECTURAL DRAWING FOR FIRE WALL LOCATIONS.
- R ELECTRICAL CONTRACTOR SHALL VERIFY ALL VOLTAGES OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

ALL MOUNTING HEIGHTS ARE TO CENTER LINE OF OUTLES BOX UNLESS OTHERWISE NOTED.

ALL SYMBOLS MAY NOT BE USED ON THE PLANS.

SYMBOL

 $N_{\rm NL}/$

\$ \$3\$

 $\$_{PL} / \$_{OS}$

- SECTION 16050 BASIC ELECTRICAL MATERIALS AND METHODS
- A INSTALL ALL WIRING CONDUIT EXCEPT AS OTHERWISE INDICATED. MINIMUM CONDUIT SIZE SHALL BE 3/4". ALL CONDUIT EMBEDDED IN CONCRETE SHALL BE 3/4" MINIMUM. INSTALL ALL CONDUIT CONCEALED UNLESS ON UNFINISHED WALLS, ON UNFURRED CEILINGS OR MECHANICAL EQUIPMENT SPACES. PROVIDE CONDUIT AS FOLLOWS:
- RIGID STEEL CONDUIT FOR WORK EXPOSED TO WEATHER OR EMBEDDED IN CONCRETE OR MASONRY.
 GALVANIZED ELECTRICAL METALLIC TUBING (EMT) FOR INTERIOR EXPOSED
- WORK, CONCEALED WORK ABOVE SUSPENDED CEILINGS, AND WITHIN INTERIOR PARTITIONS OR NON-MASONRY WALLS.

 3. FLEXIBLE METAL CONDUIT IN SHORT LENGTHS (6' MAXIMUM) FOR THE CONNECTION OF RECESSED LIGHTING FIXTURES AND MOTORS.
- FLEXIBLE METAL CONDUIT IN SHORT LENGTHS (6' MAXIMUM) FOR THE CONNECTION OF RECESSED LIGHTING FIXTURES AND MOTORS.
 LIQUID TIGHT FLEXIBLE METAL CONDUIT WHEREVER MOISTURE MAY BE PRESENT AND MOTORS IN MECHANICAL EQUIPMENT SPACES.
- 5. POLYVINYLCHLORIDE (PVC) SCHEDULE 40 CONDUIT WITH GROUND CONDUCTOR FOR UNDERGROUND OUTSIDE OF BUILDING (SITE) INSTALLATION.UNDERGROUND OUTSIDE OF BUILDING (SITE) INSTALLATION.
- B INSTALL CONDUITS PARALLEL AND PERPENDICULAR TO WALLS AND INTERIOR SURFACES. CLEAN AND PLUG AND PROVIDE A PULL LINE IN EACH CONDUIT LEFT EMPTY. USE MANUFACTURED ELBOWS AND SCREW JOINTED CONDUIT FITTINGS. USED CAPPED BUSHINGS OR "PUSH PENNY" PLUGS. ALL FITTINGS SHALL BE STEEL OR MALLEABLE IRON. ALL EMT FITTINGS SHALL BE COMPRESSION TYPE.
- C ALL OUTLET, SWITCH AND JUNCTION BOXES, SHALL BE SHERARDIZED OR GALVANIZED STAMPED STEEL BY STEEL CITY, RACO, APPLETON, VALEN, OR EQUIVALENT. OUTLET BOXES IN CONCRETE CONSTRUCTION SHALL BE OCTAGONAL. NO "THRU-WALL" BOXES SHALL BE USED IN PARTITIONS. ALL BOXES SHALL BE FURNISHED WITH APPROPRIATE COVERS.
- D JUNCTION AND PULL BOXES SHALL BE FURNISHED AND INSTALLED AS INDICATED OR WHERE REQUIRED TO FACILITATE PULLING OF WIRES OR CABLES. BOXES FOR EXTERIOR WORK SHALL BE CAST ALUMINUM OR GALVANIZED CAST IRON TYPE WITH THREADED HUBS, UNLESS OTHERWISE DIRECTED. GASKETED COVER PLATES SHALL BE FURNISHED FOR OUTDOOR INSTALLATIONS.
- E BUILDING WIRE, UNLESS OTHERWISE INDICATED, SHALL BE COPPER, 600 VOLT, TYPE THWN/THHN INSULATION, #12 AWG MINIMUM, FOR INTERIOR AND EXTERIOR USED. FOR BRANCH CIRCUITS TYPE MC (METAL CLAD) CABLE MAY BE USED WHERE PERMITTED BY THE NEC AND LOCAL CODES. NON-METALLIC SHEATH CABLE (TYPE NM-B) OR ARMORED CABLE (TYPE AC) WILL NOT BE ALLOWED ON THE PROJECT.
- F MINIMUM WIRE SIZE SHALL BE NUMBER TWELVE (12) AWG. NO SPLICES SHALL BE MADE EXCEPT WITHIN OUTLET OR JUNCTION BOXES. WIRES NUMBER EIGHT (8) AWG AND LARGER SHALL BE STRANDED. WIRES AND CABLES SHALL BE MANUFACTURED BY PIRELLI, ROYAL, TRIANGLE OR EQUIVALENT.
- G THE COLOR CODING SYSTEM LISTED BELOW SHALL BE USED THROUGHOUT THE BUILDING:

SYSTEM PHASE A PHASE B PHASE C NEUTRAL GROUND ISOLATED GROUND

120/208V BLACK RED BLUE WHITE GREEN GREEN/YELLOW

277/480V BROWN ORANGE YELLOW GRAY GREEN GREEN/YELLOW

- H THE WIRE SIZE INDICATED IN THE HOMERUN SHALL BE USED THROUGH THE CIRCUIT.

 I PROVIDE DISCONNECT SWITCHES WHERE INDICATED AND AS REQUIRED. SWITCHES SHALL BE OF SIZE, NUMBER OF POLES AND FUSED OR NONFUSED, AS REQUIRED FOR JOB CONDITIONS AND THE NATIONAL ELECTRICAL CODE. ALL SAFETY SWITCHES SHALL BE NEMA I ENCLOSURE "HD" WITH INTERLOCKING COVER AND HANDLE, MANUFACTURED BY SQUARE "D". PROVIDE NEMA 3R ENCLOSURES IN DAMP, WET, AND OUTDOOR
- J PROVIDE STARTERS AND CONTROL WIRING AS INDICATED ON THE DRAWINGS, OR SPECIFIED HEREIN. ALL TEMPERATURE CONTROL WIRING AND COMPONENTS SHALL BE UNDER DIVISION 15.
- K PROVIDE THERMAL MANUAL MOTOR STARTING SWITCHES FOR FRACTIONAL HORSEPOWER, SINGLE PHASE MOTORS. THE STARTERS SHALL BE SQUARE D COMPANY, CLASS 2510, ALLEN BRADLEY BULLETIN 600 FOR SINGLE SPEED MOTORS. ENCLOSURES SHALL BE NEMA I FOR INTERIOR USE AND NEMA 3R FOR EXTERIOR USE.
- L THREE PHASE MOTOR STARTERS SHALL BE 3 POLE, FULL-VOLTAGE, MAGNETIC TYPE. ENCLOSURES SHALL BE NEMA I FOR INTERIOR USE AND NEMA 3R FOR EXTERIOR USE. PROVIDE HOA SWITCH WHEN AUTOMATICALLY CONTROLLED, PILOT INDICATING LIGHT CONTROL TRANSFORMER, AND NO/NC AUXILIARY CONTACTS. STARTERS SHALL BE SQUARE D COMPANY, CLASS 8536 AND CLASS 8538 COMBINATION TYPE.
- M WIRING DEVICES SHALL BE ARROW HART, GENERAL ELECTRIC, P & S, LEVITON OR
 - WALL SWITCHES: ARROW HART 1991. THREE AND FOUR-WAY SWITCHES SHALL BE OF THE SAME MANUFACTURER AND GRADE.
 RECEPTACLES: ARROW HART 5362 FOR 20 AMPERES. GFCI SHALL BE #GFCS20 RATED 20 AMPERE, 120 VOLT. TAMPER RESISTANT AND WEATHER RESISTANT RECEPTACLES SHALL BE PROVIDED WHERE REQUIRED PER NEC.
- DIMMERS: 600/1000/1500/2000 WATTS AS REQUIRED BY JOB CONDITIONS. LUTRON 'NOVA' SERIES OR EQUAL.
 DEVICE PLATES: ARROW HART SWITCH PLATES SI-S6 SERIES. ARROW HART
- N MOUNT WEATHERPROOF DEVICES IN CAST METAL BOXES WITH GASKETED, SPRING-HINGED LID-TYPE LOCKING COVERS HAVING CORROSION-RESISTANT FINISH AND WP, WHILE IN USE COVER.
- O THE ENTIRE ELECTRICAL SYSTEM SHALL BE SOLIDLY GROUNDED INCLUDING MAIN SERVICE EQUIPMENT, DISCONNECT SWITCHES, WIRING TROUGHS AND PULL BOXES, CONDUIT SYSTEM, OUTLET BOXES, MOTORS, ELECTRIC HEATING EQUIPMENT, LIGHTING FIXTURES, TRANSFORMERS, EMERGENCY SYSTEMS, UPS SYSTEMS, AND FIRE ALARM SYSTEMS
- P PROVIDE EQUIPMENT GROUNDING CONDUCTORS IN ALL BRANCH CIRCUITS AND FEEDERS SIZED IN ACCORDANCE WITH THE NEC TABLE 250.122.
- Q ALL BRANCH CIRCUITS SHALL BE RUN CONCEALED IN EXISTING AND NEW WALLS. CUT AND PATCH EXISTING WALLS AND SURFACES AS REQUIRED.
- R ALL D.C. WIRING SHALL BE #10 AWG MINIMUM.

ELECTRICAL SYMBOLS

FIXTURE-FLUORESCENT-CEILING. SEE LIGHTING FIXTURE SCHEDULE.

EMERGENCY BATTERY UNIT. SEE LIGHTING FIXTURE SCHEDULE.

FLUSH-MOUNTED/SURFACE-MOUNTED PANELBOARD

SWITCH-PILOT LIGHT/OCCUPANCY SENSOR

RECEPTACLE-20A-125 VOLTS-ISOLATED GROUND

JUNCTION BOX

SHADING DENOTES FIXTURE ON EMERGENCY OR NIGHT LIGHT CIRCUIT. SEE LFS.

EXIT LIGHT - CEILING, WALL. DIRECTIONAL ARROWS AS INDICATED. SEE LFS.

DISCONNECT SWITCH-UNFUSED, FUSED M.H., FRAME SIZE OVER FUSE SIZE

SWITCH-SINGLE POLE, THREE-WAY, SUBSCRIPT DENOTES OUTLET CONTROLLED

CEILING-MOUNTED OCCUPANCY SENSOR. LEVITON ODC10-MRW OR APPROVED EQUAL

RECEPTACLE-20A-125 VOLTS-DUPLEX/QUADRUPLEX / LEFT SIDE SHADED ARE ARC RECPT.

RECEPTACLE-20A-125 VOLTS-DUPLEX/QUAD - MOUNTED FLUSH IN CEILING

RECEPTACLE-20A-125 VOLTS- GROUND FAULT CIRCUIT INTERRUPTER

RECEPTACLE-20A-125 VOLTS- WITH WEATHERPROOF IN-USE COVER

RECEPTACLE-20A-125 VOLTS-6" ABOVE COUNTER/BACKSPLASH

S GROUND, PHASE AND NEUTRAL CONDUCTORS SHALL BE PIG-TAILED IN OUTLET BOXES OR MULTI-OUTLET ASSEMBLY FOR RECEPTACLES SO THAT GROUND AND ELECTRICAL SERVICE WILL NOT BE DISTURBED TO OTHER RECEPTACLES ON THE SAME MULTI-WIRE CIRCUIT IF RECEPTACLE IS REMOVED.

TO TOP

ТО ТОР

18"

SECTION 16400 - SERVICE AND DISTRIBUTION

- A COORDINATE ALL SERVICE ENTRANCE WORK WITH THE ELECTRIC UTILITY, THE CONTRACTOR SHALL ARRANGE FOR TRANSFER OF SERVICE TO NEW TENANT AT COMPLETION OF CONTRACT.
- B DISTRIBUTE POWER AT 277/480V, 3 PHASE, 4 WIRE, FOR FLUORESCENT LIGHTING, AIR CONDITIONING, ELECTRIC HEATING, MOTOR CIRCUITS, AND 120/208V FOR RECEPTACLES, INCANDESCENT LIGHTS AND SMALL MOTORS, OR AS INDICATED ON THE DRAWINGS.
- C PANELBOARDS ARE 277/480 VOLTS AND 120/208 VOLTS, THREE PHASE EMPLOYING BREAKERS WITH A MINIMUM 10,000 SYMMETRICAL A.I.C. AT 120 VOLTS OR 240 VOLTS AND 14,000 SYMMETRICAL A.I.C. AT 277 VOLTS. MATCH AIC RATING OF EXISTING BREAKERS FOR NEW BREAKERS ADDED IN AN EXISTING PANEL.
- D PANELBOARDS ARE EXISTING FACTORY ASSEMBLED WITH BOLT-ON TYPE CIRCUIT BREAKERS. PROVIDE NEW CIRCUIT BREAKERS, AS REQUIRED, OF THE SAME MANUFACTURER & OF EQUAL RATING TO BREAKERS IN EXISTING PANELBOARDS.
- E PROVIDE THREE (3) 3/4 INCH SPARE CONDUITS FROM EACH RECESSED PANEL TO THE CEILING SPACE.
- F FUSES FOR SERVICE ENTRANCE EQUIPMENT SHALL BE U.L. LISTED CLASS L, J, OR RKI. FUSES FOR FEEDER CIRCUITS AND PANELBOARDS SHALL BE U.L. CLASS RKI FAST-ACTING TYPE. FUSES FOR MOTOR OVERCURRENT, MOTOR CONTROLLER, AND TRANSFORMER PROTECTION SHALL BE DUAL-ELEMENT, U.L. CLASS RKI TIME-DELAY TYPE
- KVA, PHASE, "K" AND VOLTAGE RATINGS AS INDICATED. TRANSFORMERS 15 KVA AND LESS SHALL HAVE A CLASS F INSULATION, 115 DEGREES C RISE. TRANSFORMERS ABOVE 15 KVA SHALL HAVE CLASS H INSULATION, 115 DEGREE C RISE. PROVIDE FOUR 2-1/2 TAPS BELOW TWO 2-1/2 TAPS ABOVE RATED PRIMARY VOLTAGE. TRANSFORMERS OF 150 KVA AND LESS SHALL BE RATED 45 DB, LARGER TRANSFORMERS SHALL BE RATED 55 DB. NEUTRALS AND NEUTRAL CONNECTIONS OF ALL "K" RATED DRY TYPE TRANSFORMERS
- NEUTRALS AND NEUTRAL CONNECTIONS OF ALL "K" RATED DRY TYPE TRANSFORMERS

 H SHALL BE 200% OF THE PHASE CONDUCTOR SIZE. TRANSFORMER SHALL BE SQUARE D,
 GENERAL ELECTRIC, SIEMENS, ACME OR CUTLER-HAMMER

PROVIDE ENERGY EFFICIENT, NEMA TP-1, SELF-COOLED, DRY TYPE TRANSFORMERS OF

SECTION 16500 - LIGHTING

- A LIGHTING FIXTURES SHALL BE AS INDICATED ON THE DRAWINGS. PROVIDE A NEW COMPLETE LIGHTING FIXTURE AT EACH LOCATION INDICATED ON THE DRAWINGS. NEW FIXTURES SHALL BE SPECIFIED ON THE LIGHTING FIXTURE SCHEDULE ON THE DRAWINGS.
- B LED LIGHTING FIXTURES. RECESSED FIXTURES: COMPLY WITH NEMA LE 4. BULB SHAPE COMPLYING WITH ANSI C79.1. LAMP BASE COMPLYING WITH ANSI C81.61. CRI OF MINIMUM 80. CCT AS SHOWN ON THE PLANS OR FIXTURE SCHEDULE.
- C RATED LAMP LIFE OF 50,000 HOURS, MINIMUM AT 70 PERCENT LUMEN MAINTENANCE.
- D INTEGRAL DRIVER. DRIVER POWER FACTOR SHALL BE 40 PERCENT OR GREATER. HARMONIC DISTORTION SHALL BE LESS THAN 10% THD. DRIVERS SHALL BE EQUIPPED WITH AUTOMATIC THERMAL PROTECTION AND 20 KA SURGE PROTECTION WITH END OF LIFE LED INDICATOR.
- E ALL PLASTIC DIFFUSERS SHALL BE 100 PERCENT VIRGIN ACRYLIC (NOMINAL .125 INCH THICK) AND ALL LEXAN DIFFUSERS SHALL BE LEXAN TYPE MR-4000, OR EQUAL.
- F 8-FOOT TANDEM LAMP UNITS MAY NOT BE USED IN LIEU OF 4 FOOT UNITS IN CONTINUOUS ROWS.
- G THE CONTRACTOR SHALL CONSULT THE CEILING CONTRACTOR AND ARCHITECT'S DRAWINGS FOR APPROVED REFLECTED CEILING PLANS BEFORE ORDERING FIXTURES TO INSURE THAT ALL ARE COMPATIBLE WITH THE CEILING SYSTEM AND PROPERLY LOCATED. VERIFY THAT ADEQUATE CLEARANCE FOR INSTALLATION, MAINTENANCE, AND HEAT DISSIPATION IS AVAILABLE.
- H PROVIDE A MINIMUM OF TWO (2) GALVANIZED STEEL #12 GAUGE HANGER WIRES (ALTERNATE CORNERS) ON ALL RECESSED FIXTURES.
- I CONTRACTOR SHALL PROVIDE UP TO 10 ADDITIONAL EXIT SIGNS AND 10 ADDITIONAL EMERGENCY BATTERY PACKS WITH DUAL HEADS AS NEEDED TO MEET FIRE MARSHAL'S WALK-THROUGH AND ACCEPTANCE. LIGHT FIXTURES, LABOR, EXTENDING CIRCUITS SHALL ALL BE INCLUDED IN THE CONTRACTOR'S BASE BID.
- J CONNECT EXIT LIGHTS, EMERGENCY BATTERY UNITS AND NIGHT LIGHTS (NL) TO UNSWITCHED PORTION OF LIGHTING CIRCUIT SERVING RESPECTIVE AREA.
- K EXTERIOR SITE LIGHTING SHALL BE PROVIDED ACCORDING TO LOCAL CODE REQUIREMENTS FOR NEW, FREESTANDING BUILDINGS. FOR EXISTING BUILDINGS, THE FOLLOWING TWO CONDITIONS SHALL APPLY: (1) WHEN THE EXTERIOR SITE LIGHTING IS CONTROLLED BY SAVERS, THE CONTRACTOR IS TO RE-LAMP AND RE-BALLAST THE EXISTING FIXTURES AS REQUIRED FOR PROPER OPERATION. (2) WHEN THE EXTERIOR SITE LIGHTING IS CONTROLLED BY THE LANDLORD, THE CONTRACTOR SHALL VERIFY THAT ALL EXTERIOR SITE FIXTURES ARE PROPERLY OPERATING, AND SHALL NOTIFY THE SAVERS CONSTRUCTION MANAGER OF ANY PROBLEMS.

SPECIAL RECEPTACLE AS NOTED

AND 3/4"C STUBBED UP 6" ABOVE CEILING

3/4"C STUBBED UP 6" ABOVE CEILING

3/4"C STUBBED UP 6" ABOVE CEILING

TELEPHONE TERMINAL BACKBOARD

GROUND CONNECTION

BRANCH CIRCUIT-IN FLOOR

CEILING SPEAKER

DESCRIPTION

OUTLET-COMBINATION TELEPHONE/DATA (4"x4"x2.25"D) WITH BLANK COVERPLATE, PULLSTRING AND 3/4"C STUBBED UP 6" ABOVE CEILING

OUTLET-TELEPHONE (4"x4"x2.25"D) WITH BLANK COVERPLATE, PULLSTRING

OUTLET-DATA (4"x4"x2.25"D) WITH BLANK COVERPLATE, PULLSTRING AND

OUTLET-DATA (4"x4"x2.25"D) WITH BLANK COVERPLATE, PULLSTRING AND

TIME CLOCK. SEE LIGHTING CONTROL NOTE 3 THIS DRAWING

HOMERUN TO PANEL-LETTER AND NO. INDICATES CIRCUIT NUMBER

DROP OUTLET RECEPTACLE WITH JUNCTION BOX. DUPLEX RECEPTACLE ON EACH SIDE

DUCT MOUNTED SMOKE DETECTOR - SUPPLY/RETURN

DRAWING NOTE/SPECIAL EQUIPMENT NUMBER

BRANCH CIRCUIT-IN CEILING OR WALLS

SECTION 16700 - COMMUNICATION SYSTEMS

COORDINATE ALL WORK WITH THE TELEPHONE COMPANY.

- A TELEPHONE SERVICE SHALL BE INSTALLED BY THE TELEPHONE COMPANY. EXISTING TELEPHONE ENTRY CONDUIT TO BE RELOCATED, AS INDICATED ON THE DRAWINGS.
- B PROVIDE WALL OUTLETS IN 4" SQUARE 2-1/8" DEEP BOX WITH RAISED SINGLE GANG COVERS EQUIPPED WITH BLANK STAINLESS STEEL DEVICE PLATES. EXTEND 3/4" EMPTY CONDUIT FROM EACH OUTLET TO THE CEILING SPACE AND TERMINATE WITH INSULATED BUSHINGS. PROVIDE NYLON PULL WIRE IN ALL CONDUITS LEFT EMPTY.

SECTION 16720 - FIRE ALARM SYSTEM

- A PROVIDE ALL REQUIRED LABOR, WARRANTY LABOR, MATERIAL EQUIPMENT, SYSTEM PROGRAMMING, SUBMITTALS AND SERVICES NECESSARY TO FACILITATE A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM, IN ACCORDANCE WITH ALL LOCAL CODES, CONSISTING OF BUT NOT LIMITED TO:
- FIRE ALARM ADD OR RELOCATE AUDIO/VISUAL ALARM DEVICES, AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION, TO PROVIDE THE NECESSARY COVERAGE, PER CODE.
- SMOKE DETECTORS AND OTHER INITIATING DEVICES PROVIDE NEW OR RELOCATE, AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION, TO PROVIDE THE NECESSARY COVERAGE, PER CODE.
 DEVICE MOUNTING HEIGHT AND LOCATION COORDINATE SYSTEM DEVICE LAYOUT WITH PROPOSED FIXTURE PLAN TO ENSURE ALL EXISTING AND/OR NEW VISUAL ALARMS ARE UNOBSTRUCTED FROM THE VIEW OF OCCUPANTS AT GRADE LEVEL. ALL DEVICES LOCATED IN THE SALES AREA SHALL BE MOUNTED

AT NO LESS THAN 96" A.F.F. AND THE BACK ROOM AREA LAYOUT SHALL UTILIZE

THE CEILING FOR MOUNTING DEVICES TO AVOID CONFLICTS WITH RACKING,

B GC IS RESPONSIBLE TO PROGRAM SYSTEM AND SET UP OF FIRE ALARM MONITORING WITH THE TENANTS VENDOR:

CONTACT INFORMATION - KIM RANGEL

RELOCATE EXISTING EQUIPMENT, AS NEEDED.

- ACADEMY FIRE
 PHONE: (480) 405-6907 E-MAIL: KRANGEL@ACADEMYFIRE.COM
- C GC SHALL COORDINATE ALL REQUIREMENTS FOR ANY REQUIRED DEVICES AND/OR SYSTEM. GC WILL BE RESPONSIBLE FOR COORDINATION BETWEEN THE LAND LORD AND ANY OTHER TENANT ASSOCIATED WITH THE SYSTEM.
- IF APPROPRIATE AND/OR NECESSARY, THE EXISTING SYSTEM MAY BE COMPLETELY REPLACED WITH A NEW SYSTEM, BUT THE GC SHALL BE COMPLETELY RESPONSIBLE FOR MAINTAINING FIRE ALARM PROTECTION TO THE FACILITY IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION.
- E GC SHALL BE RESPONSIBLE FOR EXTENDING ANY REQUIRED TELEPHONE/DATA LINES TO THE FIRE ALARM SYSTEM. PROVIDE ONE DEDICATED TELEPHONE LINE AND ONE SHARED TELEPHONE LINE FOR FIRE ALARM SYSTEM. COORDINATE ALL REQUIREMENTS WITH THE

SYMBOL	DESCRIPTION	MANUFACTURER/MODEL NO.	LAMP	VOLTS	WATTS	REMARKS
A	4FT MICROSTRIP FIXTURE W/ POWER SELECT & COLOR SELECT, FROSTED LENS, 0-10V DIMMING	KEYSTONE KT-MSLED44PS-4-8CSA-VDIM	WITH FIXTURE	120/277	18/ 28/ 44	3500K/4000K/5000K KT-MSLED-VH-KIT (CHAIN) KT-MSLED-LSM-KIT (LINK-MOUNT)
AA	8FT MICROSTRIP FIXTURE W/ POWER SELECT & COLOR SELECT, FROSTED LENS, 0-10V DIMMING	KEYSTONE KT-MSLED44PS-8-8CSA-VDIM	WITH FIXTURE	120/277	54/ 75/ 90	3500K/4000K/5000K KT-MSLED-VH-KIT (CHAIN) KT-MSLED-LSM-KIT (LINK-MOUNT)
AAEM	8FT MICROSTRIP FIXTURE W/ POWER SELECT & COLOR SELECT, FROSTED LENS, 0-10V DIMMING	KEYSTONE KT-MSLED44PS-8-8CSA-VDIM/ EM12	WITH FIXTURE	120/277	54/ 75/ 90	3500K/4000K/5000K, KT-MSLED-VH-KIT (CHAIN) KT-MSLED-LSM-KIT (LINK-MOUNT)
VT	4FT NARROW BODY VAPOR-TIGHT LED W/FROSTED LENS AND 0-10V DIMMING	KEYSTONE VTLED63-4A-850-VDIM-P/ EM12	WITH FIXTURE	120/277	63	5000K, EM DRIVER
CC	2'X4' LED PANEL W/ POWER SELECT & COLOR SELECT, FROSTED LENS, 0-10V DIMMING	KEYSTONE KT-BPLED590PS-24-840- VDIM/G2		120/277	30/ 40/ 50	3500K/4000K/5000K
CCEM	2'X4' LED PANEL W/ POWER SELECT & COLOR SELECT, FROSTED LENS, 0-10V DIMMING	KEYSTONE KT-BPLED590PS-24-840- VDIM/G2/EM12		120/277	30/ 40/ 50	3500K/4000K/5000K, EM DRIVER
FLANGE CC	SAME AS TYPE 'CC' EXCEPT WITH FLANGE KIT	KEYSTONE KT-BPLED590PS-24-840- VDIM/G2 KT-CBLED-RMF-24-KIT		120/277	30/ 40/ 50	3500K/4000K/5000K
FLANGE CCEM	SAME AS TYPE 'CCEM' EXCEPT WITH FLANGE KIT	KEYSTONE KT-BPLED590PS-24-840- VDIM/G2/EM12 KT-CBLED-RMF-24-KIT		120/277	30/ 40/ 50	3500K/4000K/5000K, EM DRIVER
— F5	WALL-MOUNTED BATHROOM VANITY LIGHT	SAYLITE WP232 LEDL15W-840		120/277	15	W/ GE ULTRA MAX BALLAST
F6	EXTERIOR CANOPY FIXTURE LISTED FOR WET LOCATIONS	SAYLITE CITLB232ZWMV- GE78623	SIGNIFY 47394-2 13T8 LED/48-4000 IF DIM	120/277	54/ 53	W/ GE ULTRA MAX BALLAST
F6EM	EXTERIOR CANOPY FIXTURE LISTED FOR WET LOCATIONS	SAYLITE CITLB232ZWMV- GE78623	SIGNIFY 47394-2 13T8 LED/48-4000 IF DIM	120/277	54/ 53	W/ GE ULTRA MAX BALLAST
F7	EXTERIOR WALL-MOUNTED BUILDING LIGHT FIXTURE	SAYLITE LEDWPC50W-4K	SIGNIFY LED (50W)	120/277	50	
F8	EXTERIOR WALL-MOUNTED BUILDING LIGHT FIXTURE	SAYLITE LEDWPC80W-4K	SIGNIFY LED (80W)	120/277	80	
EX1	LED EXIT SIGN	BEST ELXTEU1RCBE M		120/277		UNIVERSAL PER SYMBOL ON PLAN. MOUNTING WALL,CEILING OR SUSPENDED. 90 MINUTE BATTERY BACKUP.
EX1RC	LED EXIT SIGN/EMERGENCY COMBO	BEST LEDCXTEU2RW- XX		120/277		UNIVERSAL PER SYMBOL ON PLAN. MOUNTING WALL,CEILING OR SUSPENDED. 90 MINUTE BATTERY BACKUP.
	REMOTE HEAD	BEST RHLED2		120	10	
Ş DD	DOCK LIGHT	PHOENIX DLAW2-12LED-FL-42- NS		120*	9	* PLUG-IN TYPE. SEE E300 FOR RECEPTACLE
NL/EM	REFER TO PLAN AND NOTE - 4					

LIGHTING FIXTURE SCHEDULE-US

CONTRACTOR SHALL FURNISH ALL FIXTURES.

- 2. COORDINATE WITH SAVERS CONSTRUCTION MANAGER FOR INFORMATION PERTAINING TO OWNER'S NATIONAL ACCOUNT PURCHASE AGREEMENT.
- 3. COORDINATE EXACT MANUFACTURER, MODEL NUMBER, MOUNTING, LAMPS, COLORS AND FINISHES WITH OWNER PRIOR TO INSTALLATION.
- 4. LIGHTING FIXTURES DESIGNATED AS NIGHT LIGHT SHALL BE WIRED AND PROVIDED WITH CONSTANT HOT WIRE AND AHEADOF ANY LOCAL CONTROL AND/OR SWITCH. PROVIDE 1400 LUMEN EMERGENCY BATTERY PACK IN ALL NIGHT LIGHT FIXTURES. PROVIDE LOCK CLIP ON BRANCH CIRCUIT CIRCUIT BREAKER.
- 5. THE PROTOTYPE F7 FIXTURE LAYOUT IS SHOWN FOR USE WITH NEW, FREESTANDING BUILDINGS. FOR BUILDING-MOUNTED EXTERIOR LIGHTS ON EXISTING BUILDINGS, THE FOLLOWING TWO CONDITIONS SHALL APPLY: (1) WHEN THE EXTERIOR BUILDING LIGHTING IS CONTROLLED BY SAVERS, THE CONTRACTOR IS TO RE-LAMP AND RE-BALLAST THE EXISTING FIXTURES AS REQUIRED FOR PROPER OPERATION. IF REPLACEMENT OR ADDITIONAL EXTERIOR BUILDING FIXTURES ARE REQUIRED, THEN THE CONTRACTOR SHALL SUPPLEMENT WITH NEW F7 FIXTURES, OR MATCH EXISTING. (2) WHEN THE EXTERIOR BUILDING LIGHTING IS CONTROLLED BY THE LANDLORD, THE CONTRACTOR SHALL VERIFY THAT ALL EXTERIOR BUILDING FIXTURES ARE PROPERLY OPERATING, AND SHALL NOTIFY THE SAVERS CONSTRUCTION MANAGER OF ANY PROBLEMS.

	ABBREV	/IATI(ONS
AFF	ABOVE FINISHED FLOOR	EC	ELECTRICAL CONTRACTOR
C,CDT	CONDUIT	NEC	NATIONAL ELECTRIC CODE
EF	EXHAUST FAN	NL	NIGHT LIGHT
GFCI	GROUND FAULT CURRENT INTERRUPTER	PL	PILOT LIGHT
HP	HORSEPOWER	UNO	UNLESS NOTED OTHERWISE
IG	ISOLATED GROUND	TC	TIME CLOCK
MH	MOUNTING HEIGHT	WP	WEATHERPROOF
MTD	MOUNTED	LFS	LIGHTING FIXTURE SCHEDULE

LIGHTING CONTROL NOTES

- 1. ALL LIGHTING CONTACTORS SHALL BE ENCLOSED TYPE, ELECTRICALLY OPERATED, ELECTRICALLY HELD WITH NORMALLY CLOSED (N.C.) CONTACTS AS INDICATED ON THE PLANS.
- 2. THE CONTRACTOR SHALL PROVIDE AND INSTALL PHOTO CELL CONTROL FOR EXTERIOR SIGNS AND ALL EXTERIOR LIGHTING (IF APPLICABLE).
- 3. THE CONTRACTOR SHALL PROVIDE AND INSTALL AN ASTRONOMICAL TIMECLOCK (ALLEN BRADLEY BULLETIN 1760 OR APPROVED EQUAL) FOR CONTROL OF ALL LIGHTING CONTACTORS IN

FIRE ALARM NOTES

THE GENERAL CONTRACTOR (G.C.) SHALL ARRANGE WITH AN AUTHORIZED FIRE ALARM CONTRACTOR TO CONDUCT AN OPERATIONAL TEST TO DETERMINE IF THE EXISTING SYSTEM IS STILL OPERABLE & MEETS CODE MINIMUM REQUIREMENTS, PRIOR TO ANY DEMOLITION. ANY RELOCATION SPECIFIED ON THESE PLANS, SUCH AS, THE EXISTING FIRE ALARM CONTROL PANEL, OR MODIFICATION AND/OR INSTALLATION OF ADDITIONAL DEVICES SHALL COMPLY WITH THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION, SHALL BE DONE BY THE G.C. AND BE INCLUDED IN HIS BID. ANY PLANS THAT MAY BE REQUIRED SHALL BE PREPARED AND SUBMITTED BY THE FIRE ALARM CONTRACTOR.

GC IS RESPONSIBLE FOR PROGRAMMING THE SYSTEM AND TO SET UP FIRE ALARM MONITORING WITH KIM RANGEL (ACADEMY FIRE). CONTACT INFORMATION - PHONE: (480) 405-6907 E-MAIL: KRANGEL@ACADEMYFIRE.COM

REFER TO ELECTRICAL SPECIFICATIONS.

THE MODIFIED FIRE ALARM SYSTEM SHALL BE COMPLETELY TESTED AND INSPECTED FOR CODE COMPLIANCE WITH ALLOWANCE FOR ANY NEEDED CORRECTIONS TO BE MADE. CONTRACTOR SHALL CONTACT AND COORDINATE WITH THE LOCAL FIRE MARSHAL TO VERIFY ALL REQUIREMENTS BEFORE SUBMITTING BID.

FIRE MARSHAL CONTACT:

CONTACT: TELEPHONE: INTERPLAN LLC

ARCH COA #201500877

ENG COA #200502690

ARCHITECTURE

ENGINEERING

PERMITTING

1 EAST 22ND STREET, SUITE 400 LOMBARD, IL 60148 630.932.2338



07/

07.11.25 ISSUE FOR PERMIT NO DATE REMARKS REVISIONS



901 EAST LANGSFORD RD

LEE'S SUMMIT, MO 64063

www.gleasonengr.com Design Firm # 24726 E100
ELECTRICAL GENERAL

ELECTRICAL GENERAL

HECKED: MFG DRAWN: S

Owner/Agent: Designer/Contractor: Mike Gleason Gleason Engineering 62 S. Broadway Aurora, Illinois 60505 6306215090 mgleason@gleasonengr.com

Allowed Interior Lighting Power Area Category Floor Area Allowed Allowed Watts / ft2

Total Allowed Watts = 39554 **Proposed Interior Lighting Power** Lamps/ # of Fixture (C X D) Fixture ID: Description / Lamp / Wattage Per Lamp / Ballast Fixture Fixture Watt. Retail (37315 sq.ft.) 44 1100 LED: A: Other: 348 20 LED: AA: Other: 90 31320 50 1000 LED: CC: Other: Total Proposed Watts = 33420

Interior Lighting Compliance

Michael Gleason - Principal Name - Title

Construction Site:

901 E. Langsford Rd

Lee's Summit, Missouri 64063

Statement Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Report date: 07/10/25 Project Title: 2025.014_Savers Lees Summit MO Page 1 of 5 Data filename:

EMS LIGHTING CONTROL ZONE LEGEND SHEET EM3, PANEL SHEET EM1, PARAGRAPH Q. COMMENTS TERMINAL/WIRING i. EMPLOYEE LIGHTS EMPLOYEE (C1/C2) 50% OF SALES, WITH CDC, IF FRONT OF HOUSE ii. CUSTOMER LIGHTS 50% OF SALES CUSTOMER (C3/C4) ALL SALES WALL WASH LIGHTING ii. WALL WASH LIGHTS WALL WASH (C5) v. PRODUCTION LIGHTS 1 PRODUCTION 1 (C6) 50% BACKROOM GENERAL LIGHTING 50% BACKROOM GENERAL LIGHTING, WITH CDC IF BACK OF HOUSE v. PRODUCTION LIGHTS 2 PRODUCTION 2 (C7)

SPEED RAIL (C8)

EXTERIOR LIGHTS (C9)

CANOPY SIGNAGE

SORTING, GRAING, WORKSTATION LIGHTING

ALL EXTERIOR LIGHTING

DUST TO DAWN LIGHTING

vi. SPEED RAIL LIGHTS

vii. EXTERIOR LIGHTS

viii. BUILDING SIGN/PYLON LIGHTS

LIGHTING GENERAL NOTES

LOWERCASE LETTERS NEXT TO LIGHT FIXTURES REPRESENT THE SAVERS SWITCHING CRITERIA. FIXTURE BRANCH CIRCUITS SHALL BE ROUTED THROUGH CONTACTORS WITHIN EMS SYSTEM TO COMPLY WITH SWITCHING PATTERN.

EM/NL & EXIT SIGN CIRCUITS SHALL BE DEDICATED AND ROUTED IN A SEPARATE RACEWAY FROM EACH OTHER AND ANY NORMAL CIRCUITS. EMERGENCY IS DESIGNED IN COMPLIANCE WITH 2000 LIFE SAFETY CODE (NFPA-101), 0.1FC, 1.0 FC AVERAGE, ANY DEVIATION FROM THIS REQUIRES A SIGNED LETTER FROM THE LOCAL AUTHORITY HAVING JURISDICTION.

ALL LIGHTING CONTROLS SHALL MEET OR EXCEED REQUIREMENTS AS OUTLINED BY INTERNATIONAL ENERGY CODE (2018), INCLUDING

ELECTRICAL LIGHTING KEYED NOTES

(ROS) IN MANAGER'S OFFICE. COORDINATE EXACT LOCATION OF ROS WITH PROJECT MANAGER. REFER TO EM DRAWINGS FOR ADDITIONAL DETAILS. LIGHTING FIXTURES DESIGNATED AS NIGHT LIGHT/EMERGENCY (NL/EM) SHALL BE WIRED AND PROVIDED WITH CONSTANT HOT WIRE AND AHEAD OF ANY LOCAL CONTROL AND/OR SWITCH. PROVIDE LOCK-ON CLIP ON BRANCH CIRCUIT BREAKER AND 1400 LUMEN EMERGENCY BATTERY PACK.

PROVIDE TELETROL ENERGY MANAGEMENT SYSTEM REMOTE OVERRIDE SWITCH

ELECTRICAL CONTRACTOR SHALL PROVIDE JUNCTION BOX/WP CONNECTION FOR EXTERIOR BUILDING SIGNAGE, PROVIDED BY OWNER, ALL SIGNS ARE SUPPLIED WITH WITH FACTORY FURNISHED DISCONNECT SWITCH, CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS. PROVIDE EMS CONTROL FOR ALL BUILDING SIGNS AS INDICATED ON SHEET E400. REFER TO EM DRAWINGS FOR ADDITIONAL INFORMATION, COORDINATE WITH SIGNAGE PROVIDER AND PROJECT MANAGER FOR EXACT LOCATION OF JUNCTION BOX PRIOR TO ROUGH-IN. LIGHTING MOUNTING HEIGHTS SHALL BE AS FOLLOWS: ALL HIGH-BAY FIXTURES

TO BE 18'-0" AFF; STRIP FIXTURES FOR MERCANTILE (A & B), WALL-WASH (C) AND BACKROOM SORTING, GRADING, AND WORKSTATION LIGHTING (F) TO BE 14'-6" AFF; STRIP FIXTURES FOR BACKROOM GENERAL LIGHTING (D & E) TO BE AS HIGH AS UNIFORMLY POSSIBLE (TO A MAXIMUM HEIGHT OF 16'-0" AFF). CONTRACTOR SHALL CONFIRM LIGHTING HEIGHTS AND CIRCUITING WITH THE SAVERS VALUE VILLAGE CM.

ALL LIGHTING CIRCUITS TO BE FED FROM PANEL 'H1P' UNLESS OTHERWISE NOTED. NUMBER ADJACENT TO FIXTURE INDICATES BRANCH CIRCUIT NUMBER. FIXTURES TO BE CONTROLLED THROUGH EMS SYSTEM. REFER TO EMS

DRAWINGS FOR ADDITIONAL INFORMATION. DOCK LIGHT, PLUG-IN TYPE, SHOWN FOR COORDINATION, DUPLEX RECEPTACLE SERVING THIS AT MOUNTING HEIGHT SHOWN ON E300.

ARCHITECTURE ENGINEERING PERMITTING

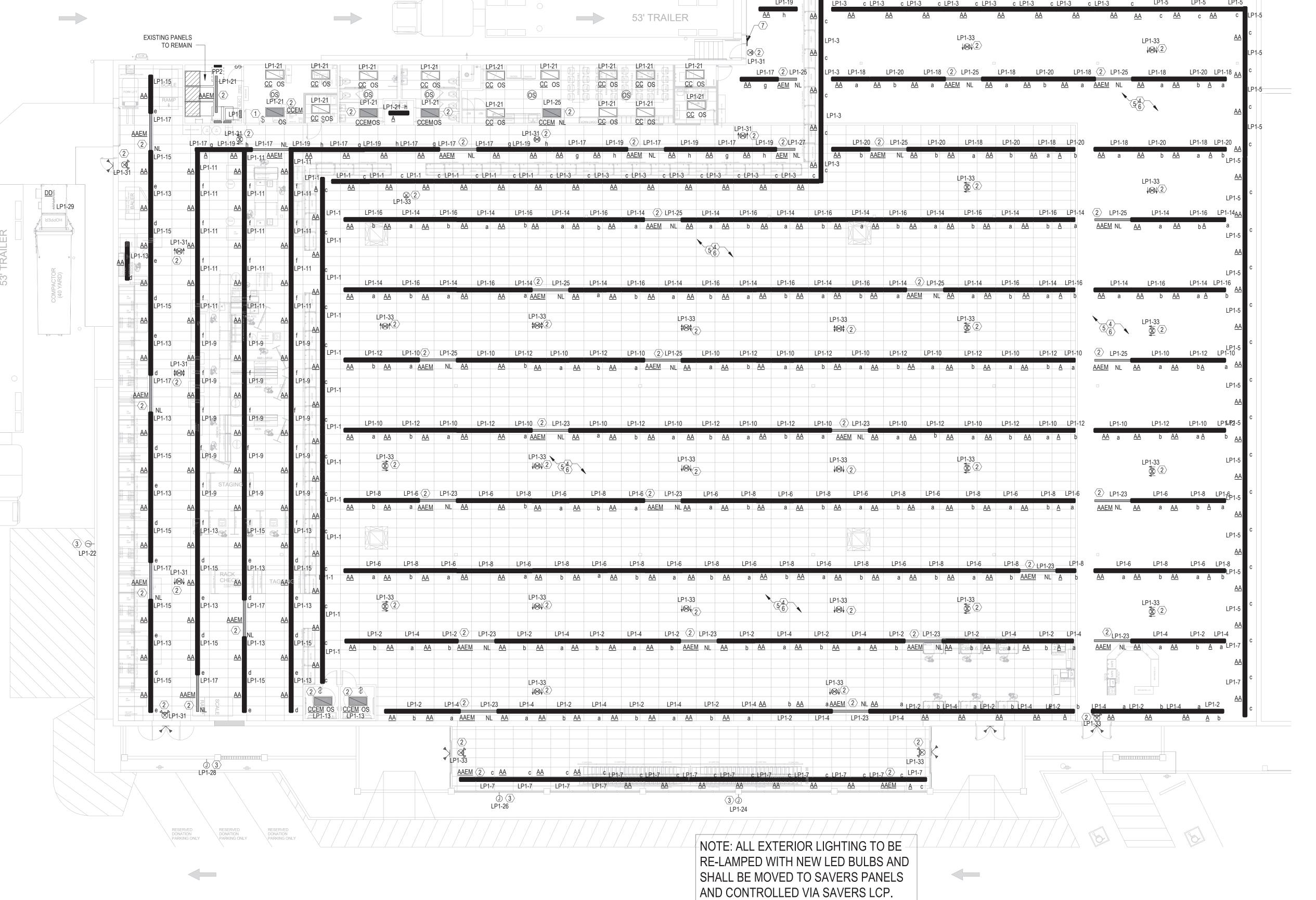
ARCH COA #201500877

ENG COA #200502690

1 EAST 22ND STREET, SUITE 400 LOMBARD, IL 60148

630.932.233





GLEASON 630-946-6679 (O) www.gleasonengr.com Design Firm # 24726

901 EAST LANGSFORD RD. LEE'S SUMMIT, MO 64063

07.11.25 ISSUE FOR PERMIT

E200 LIGHTING PLANS

HECKED: MFG DRAWN: SI

EXTRA HARD USAGE TYPE 'SO' CORD WITH GROUND

CABLE CONNECTOR WITH WIRE MESH GRIP (TYPICAL)

DOUBLE DUPLEX WITH A

DUPLEX OUTLET ON EACH

SIDE WITH WIRE MESH GRIP. WOODHEAD TYPE '3080-10' PLUS GRIP OR EQUAL.

E300 NOT TO SCALE

TYPICAL DROP OUTLET DETAIL

6' LOOP OF CABLE

AS REQUIRED.

PHONE - BOTTOM OF BOX 49.5"

VOLUME - BOTTOM OF BOX 49.5"

TC DATA - TOP OF BOX 46.5" TO

TO SIT ABOVE FRP.

TO SIT ABOVE FRP.

SIT BELOW FRP.

NOTES:

1. ALL TELEPHONE, DATA, LV BOXES SHALL BE MOUNTED VERTICALLY (NOT SIDEWAYS).

DOOR

POWER/DATA

FOR KRONOS

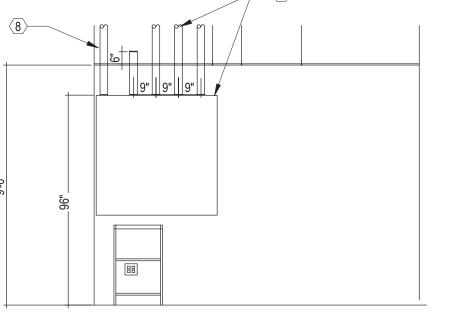
TIMECLOCK

- COORDINATE MOUNTING ORIENTATION (LEFT OR RIGHT SIDE OF DOOR) IN FIELD.
 PROVIDE 3-1/2" " DEEP BOX FOR ALL VOLUME CONTROL DEVICES.
- 2 BREAKROOM ELEVATION DETAIL E300 NOT TO SCALE

VOLUME

CUSTOMER (C2) <u>——11</u>—— L - - - / - - - - - | - - - - - | - - - - - | TO DISPLAY CASE LC1-3 OUTLET (SEE PLAN) 4 LIT DISPLAY CASE RECEPTACLE WIRING E300 NOT TO SCALE

PARTIAL EMS / IFP FACTORY WIRING (RE: INTERFACE PANEL SHEET EM-2)



5 SERVER RACK ELEVATION - BACKBOARD & CONDUIT E300 NOT TO SCALE

ELECTRICAL POWER KEYED NOTES

SHOP DRAWING OF DROP OUTLET ASSEMBLY FOR APPROVAL.

EXISTING HAND DRYER. MAINTAIN EXISTING CONNECTION. CORNER AND TOP EDGE 96" A.F.F.

A) PROVIDE THREE (3) 3" CONDUITS FOR ROUTING OF SALES AND PRODUCTION AREA (LV/DATA/COMM) CABLING. CONDUITS SHALL BE MOUNTED AT 96" A.F.F., CENTERED LATERALLY TO AND EVEN WITH TOP EDGE OF THE PLYWOOD BACKBOARD. CONDUITS SHALL BE 9" APART ON CENTER AND SHOULD EXTEND FROM THIS POINT, VERTICALLY TO DECK ELEVATION AND TURN 90° INTO BACKROOM, AS SHOWN. B) PROVIDE ONE (1) 3" CONDUIT, ALSO MOUNTED AT 96" A.F.F., 9" ON CENTER APART FROM

AT DECK ELEVATION ABOVE THE CLOSEST IMPACT DOOR AND ADJACENT TO A STRUCTURAL MEMBER. EXTEND INTO PRODUCTION AREA 24" (MIN.) FROM WALL. (ATTENTION: REQUIRED ONLY FOR PARTITION DEMISING WALLS, NOT REQUIRED FOR

PROVIDE BUSHINGS ON ALL OPEN ENDS OF CONDUITS. FIELD COORDINATE EXACT LOCATIONS WITH OWNER AND ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION. PROVIDE AND INSTALL (1) LEGRAND/WIREMOLD MODEL 25DTC415 TELE-POWER POLE AT EACH CASH WRAP. PROVIDE A DEDICATED 20A. CIRCUIT AND RUN ELECTRICAL WIRING IN EMC WITH A 24' WHIP AT THE BOTTOM OF EACH POLE. PROVIDE A QUAD RECEPTACLE AT THE END OF THE EMC, WHICH IS TO BE FASTENED WITH SCREWS TO THE CASH WRAPS. EXTENSIONS FOR TELE-POWER POLE SHALL BE USED IF NECESSARY TO MEET THE CEILING

DECK HEIGHT. THE SAVERS VALUE VILLAGE LOW VOLTAGE (LV) VENDOR WILL PROVIDE CABLING AT THE CEILING FOR ALL POWER POLES. AT THE TIME OF POWER POLE INSTALLATION, THE EC SHALL RUN THE LV CABLING THROUGH THE POWER POLE FOR THE LV VENDOR TO TERMINATE AT A LATER DATE.

PROVIDE AND INSTALL DOOR BUZZER BUTTON ON EXTERIOR WALL AT CDC DOOR. NUTONE LA201 AND BUTTON. THREE BUZZERS ARE TO BE INSTALLED. ONE BUZZER ON POWER POLE AT CASH WRAP #2 AND ANOTHER TO BE INSTALLED IN THE CDC ROOM AT 7'-0" AFF THAT ARE TO BE INSTALLED SUCH THAT BOTH SHALL SOUND WHEN CDC DOOR BUTTON IS PUSHED. THE OTHER BUZZER IS TO BE INSTALLED IN RECEIVING AND SHALL SOUND ONLY WHEN DOOR BUTTON AT LOCAL DOOR IS PUSHED.

TELEPHONE BACKBOARD LOCATION FOR ROUTING CABLE AT SAME LOCATION AS (3) 3" CONDUITS (NOTED IN KEYNOTE-3). FIELD VERIFY EXACT LOCATION WITH OWNER. PROVIDE 1-2" CONDUIT FROM MAIN INCOMING TELEPHONE DEMARC TO SAVERS (4'x8') TELEPHONE BACKBOARD. FIELD COORDINATE EXACT LOCATION. PROVIDE DEVICES FOR TICKET MACHINES (PROVIDED BY OWNER). DEVICES SHALL BE

GANGED TOGETHER IN A COMMON BOX. FIELD COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS. PROVIDE DEVICES FOR KRONOS TIME CLOCK (PROVIDED BY OWNER). FIELD COORDINATE

MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS. REFER TO 3/É300. PROVIDE 3 1/2" DEEP BOX FOR ALL VOLUME CONTROL DEVICES. PROVIDE HARD CONNECTION THRU 30A. 208V. 3Ø DISCONNECT FOR POWER TO FORKLIFT CHARGING STATION. EC SHALL FURNISH, INSTALL AND MAKE FINAL CONNECTION FROM A

208V. 3Ø POWER SOURCE. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION. PROVIDE (4) DUPLEX RECEPTACLES AT SPECIAL MOUNTING HEIGHTS SHOWN FOR

CABINET ELEVATION PRIOR TO ROUGH-IN. PROVIDE WP DISCONNECT SWITCH AND NON-FUSED DISCONNECT SWITCH AS SHOWN AND ALL FINAL CONNECTIONS TO FOUIPMENT, COORDINATE WITH FOUIPMENT INSTALLATION. AND EXACT LOCATION WITH EQUIPMENT SUPPLIER AND OWNER PRIOR TO INSTALLATION. PROVIDE DEDICATED CIRCUIT AND EMS CONTROLLED RECEPTACLE FOR "LIT JEWELRY

DISPLAY SHOWCASE". FIELD COORDINATE EXACT LOCATION OF RECEPTACLE WITH OWNER PRIOR TO INSTALLATION. PROVIDE ADDITIONAL CONTACTOR AT POWER SOURCE FOR EMS CONTROL OF RECEPTACLE. MATCH EMS CONTACTORS (ABB # A16-04-00-81 OR EQUAL) AND CONNECT (24 VAC) COIL IN PARALLEL WITH CONTACTOR (C2), THE "CUSTOMER/SALES" LIGHTING CIRCUITS (REFER TO DETAIL 5/E300). EC MAY UTILIZE EXISTING CONTACTOR IF A SPARE IS AVAILABLE. COORDINATE WITH EMS VENDOR AND EM PLANS FOR MORE

PROVIDED WITH THE "LIT JEWELRY DISPLAY SHOWCASES" ENABLING THE CASES TO INTERCONNECT TO EACH OTHER AND TO PLUG INTO RECEPTACLE. FIELD COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION. EC SHALL INSTALL EMS PANELS, FURNISHED BY OWNER, AS SHOWN ON THE PLANS. EC IS

RESPONSIBLE FOR PROVIDING, INSTALLING AND TERMINATING THE EMS COMMUNICATION TRUNK IN A DAISY CHAIN FASHION TO EACH RTU/SIMPLESTAT CONTROLLER, AS SHOWN ON THE EMS PLANS, EC SHALL PROVIDE AND INSTALL HARDWIRED CAT-5 CABLE FOR ETHERNET ACCESS, CONNECTING EMS (eSC-280 CONTROLLER) TO ANY OPEN PORT (1-24) ON SAVERS SERVER, LOCATED IN THE MANAGER'S OFFICE. COORDINATE ALL ASPECTS OF THE EMS INSTALLATION WITH THE MECHANICAL CONTRACTOR, THE EMS VENDOR AND PLANS FOR SYSTEM SPECIFICATIONS &

DOOR TRAFFIC COUNTER LOCATION - CONTRACTOR TO CONFIRM FINAL LOCATION WITH SAVERS CM PRIOR TO INSTALLATION.

(1) TELE-POWER POLE AT EACH CASH WRAP PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. E.C. TO PROVIDE A DEDICATED 20A. CIRCUIT AND RUN ELECTRICAL WIRING IN EMC WITH A 24' WHIP AT THE BOTTOM OF EACH POLE. PROVIDE A QUAD RECEPTACLE AT THE END OF THE EMC, WHICH IS TO BE FASTENED WITH SCREWS TO THE CASH WRAPS. EXTENSIONS FOR TELE-POWER POLE SHALL BE USED IF NECESSARY TO MEET THE CEILING THE SAVERS VALUE VILLAGE LOW VOLTAGE (LV) VENDOR WILL PROVIDE CABLING AT THE CEILING FOR ALL POWER POLES. AT THE TIME OF POWER POLE INSTALLATION, THE EC

SHALL RUN THE LV CABLING THROUGH THE POWER POLE FOR THE LV VENDOR TO TERMINATE AT A LATER DATE. PROVIDE DISCONNECT FOR BALER. DISCONNECT SHALL BE CLEARLY VISIBLE, MOUNTED 36"

PROVIDE DROP OUTLET RECEPTACLE PER 4/E300. ELECTRICAL CONTRACTOR TO PROVIDE

PROVIDE A FULL SHEET (3/4"X4'X8') PLYWOOD BACKBOARD INSTALLED, TIGHT TO THE

(3) ABOVE BUT WILL ONLY EXTEND 6" ABOVE THE OFFICE CEILING ROUTING OF OFFICE AREA (LV/DATA/COMM) CABLING. C) ADDITIONALLY, PROVIDE TWO (2) 3" SLEEVES THROUGH SALES FLOOR DEMISING WALL

FIXTURE WALLS).

PROVIDE AND INSTALL ONE 1-1/2" RIGID GALVANIZED CONDUIT UNDER SIDEWALK FOR AIR

BELL HOSE. TERMINATE AT CDC DRIVE THRU CURB AND INSIDE THE CDC ROOM. INSTALL A PULL STRING IN THE CONDUIT. REFER TO ARCHITECTURAL PLANS FOR PATCHING PROVIDE (1) 2" CONTINUOUS CONDUIT, STUBBED THROUGH WALLS, FROM SAVERS (4'X8')

APPLIANCE SHELVES. COORDINATE WITH ARCHITECTURAL DETAIL 9/A900, BREAK ROOM

PROVIDE AND INSTALL ALL MALE & FEMALE PLUGS, AS REQUIRED, TO EXISTING WIRING

INSTALLATION DETAILS.

AFF AND A MINIMUM OF 24" AWAY FROM BALER ON MOTOR SIDE. PROVIDE GFCI DUPLEX RECEPTACLE FOR SCRUBBER.

> 07.11.25 ISSUE FOR PERMIT no date remarks



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LEE'S SUMMIT, MO 64063

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ELECTRICAL POWER PLANS HECKED: MFG DRAWN: S

LOMBARD, IL 60148 630.932.233

07/11/2025

ARCH COA #201500877 ENG COA #2005026904

1 EAST 22ND STREET, SUITE 400

ARCHITECTURE ENGINEERING PERMITTING

Switchboard: MAIN S	SWITCH				tage: 208 V,					
		Horizontal Bus Rating: 2000 A								
Location:		Neutral: 100%								
Supply:			Mains Type: MCB							
Mounting:					ating: 2000 A	١.				
Enclosure:			I	Mains FN/	Note:					
Features & Modifications:				S	CCR: 0 kA					
Section Description						Load				
MSB1						136				
MSB2						339				
Switchboard MAIN SWITCH I	∟oad Summarv									
	Load Summary Connected	Factor	Demand		Panel	Totals				
Load Classification		107.77%	Demand 40446 VA	Conr	Panel nected Load:					
Load Classification Motor	Connected					475 kVA				
Load Classification Motor Other	Connected 37529 VA	107.77%	40446 VA	Connec	nected Load:	475 kVA 1318 A				
Switchboard MAIN SWITCH L Load Classification Motor Other Lighting - Interior Receptacle - General	Connected 37529 VA 7197 VA	107.77% 100.00%	40446 VA 7197 VA	Connec	nected Load: ted Current:	475 kVA 1318 A 481 kVA				
Load Classification Motor Other Lighting - Interior	Connected 37529 VA 7197 VA 36021 VA	107.77% 100.00% 125.00%	40446 VA 7197 VA 45027 VA	Connec	nected Load: ted Current: emand Load:	475 kVA 1318 A 481 kVA				
Load Classification Motor Other Lighting - Interior Receptacle - General	Connected 37529 VA 7197 VA 36021 VA 27060 VA	107.77% 100.00% 125.00% 68.48%	40446 VA 7197 VA 45027 VA 18530 VA	Connec	nected Load: ted Current: emand Load:	475 kVA 1318 A 481 kVA				
Load Classification Motor Other Lighting - Interior Receptacle - General Lighting - Exterior	Connected 37529 VA 7197 VA 36021 VA 27060 VA 4800 VA	107.77% 100.00% 125.00% 68.48% 125.00%	40446 VA 7197 VA 45027 VA 18530 VA 6000 VA 3750 VA	Connec	nected Load: ted Current: emand Load:	475 kVA 1318 A 481 kVA				
Load Classification Motor Other Lighting - Interior Receptacle - General Lighting - Exterior Electric Water Heating	Connected 37529 VA 7197 VA 36021 VA 27060 VA 4800 VA 3000 VA	107.77% 100.00% 125.00% 68.48% 125.00%	40446 VA 7197 VA 45027 VA 18530 VA 6000 VA 3750 VA	Connec	nected Load: ted Current: emand Load:	475 kVA 1318 A 481 kVA				
Load Classification Motor Other Lighting - Interior Receptacle - General Lighting - Exterior Electric Water Heating HVAC	Connected 37529 VA 7197 VA 36021 VA 27060 VA 4800 VA 3000 VA 3952 VA	107.77% 100.00% 125.00% 68.48% 125.00% 125.00%	40446 VA 7197 VA 45027 VA 18530 VA 6000 VA 3750 VA 4940 VA	Connec	nected Load: ted Current: emand Load:	475 kVA 1318 A 481 kVA				
Load Classification Motor Other Lighting - Interior Receptacle - General Lighting - Exterior Electric Water Heating HVAC Power	Connected 37529 VA 7197 VA 36021 VA 27060 VA 4800 VA 3000 VA 3952 VA 720 VA	107.77% 100.00% 125.00% 68.48% 125.00% 125.00% 125.00% 100.00%	40446 VA 7197 VA 45027 VA 18530 VA 6000 VA 3750 VA 4940 VA 720 VA	Connec	nected Load: ted Current: emand Load:	475 kVA 1318 A 481 kVA				

	Switchboard: MSB1 Location: Supply: MAIN SWITCH Mounting: Enclosure: Features & Modifications:	EH			Bus Ratiı Neutı Mains Ty Mains Ratiı lains FN/No	ral: 100% pe: MLO ng: 2000 A		
Ckt	Description	Frame (A)	Trip (A)	Poles	FN/Note	,	Load	
1	PANEL 'PP1' (EXISTING)	200	200	3			21887	
2	PANEL 'LP1' (EXISTING)	200	200	3			41905	
3	RTU-4 (EXISTING)		200	200	3			26659
4	SPARE		200	200	3			0
5	RTU-2 (EXISTING)		200	200	3			33504
6	SPARE		200	200	3			0
7	COMPACTOR		60	60	60 3			11670
8	EMS METER		60	60	3			0
	d Summary	Connected 16729 VA	Factor 117.44%	Demand 19646 VA	Connor	Panel cted Load:		
	ing - Interior	35521 VA	125.00%	44402 VA		d Current:		
	ptacle - General	14460 VA	84.58%	12230 VA		and Load:		
	ing - Exterior	4800 VA	125.00%	6000 VA		d Current:		
-iginti -IVA(<u> </u>	3952 VA	125.00%	4940 VA	20111011	• • • • • • • • • • • • • • • • • •	.0071	
Spare		60163 VA	100.00%	60163 VA				
				-				

Panelboard: LP1

Load Classification

Lighting - Interior

Lighting - Exterior

Mounting: Surface Enclosure: NEMA 1

DescriptionWALL LIGHTS

WALL LIGHTS

WALL LIGHTS SPEED RAIL 1

SPEED RAIL 2 PRODUCTION 1

PRODUCTION 2

BACK OF HOUSE C3 BACK OF HOUSE C4

OFFICE LIGHTS

NL/EM LIGHTS

NL/EM LIGHTS NL/EM LIGHTS BOH EXTERIOR DOCK LIGHT **EXIT LIGHTS BOH **EXIT LIGHTS FOH EF-1 / EF-2

** PROVIDE LOCAL APPROVED LOCK-OUT CIRCUIT BREAKER.

	Switchboard: MSB2 Location: Supply: MAIN S' Mounting: Enclosure: Features & Modifications:	WITCH		n	Bus Rati Neut Mains Ty Mains Rati Mains FN/No	ge: 208 V, ng: 2000 A ral: 100% rpe: MLO ng: 2000 A ote: CR: 0 kA		
Ckt	Description		Frame (A) Trip (A)	Poles	FN/Not	e Lo	
1	BALER		30	30	3		820	
2	RTU-8 (EXISTING)		60	60	3		194	
3	PANEL 'TSB' (EXISTING)		60	60	3		124	
4	RTU-6 (EXISTING)		60	60	3		335	
5	SPARE		100	100	3		0	
6	PANEL 'TSA' (EXISTING)		400	400	3		19200	
7	RTU-3 (EXISTING)		200	200	3		335	
8	RTU-1 (EXISTING)		200	200	3		335	
9	PANEL 'PP2' (NEW)		400	400	3		112	
10	RTU-7 (EXISTING)		100	100	3		335	
11	RTU-5 (EXISTING)		100	100	3		335	
12	SPARE		30	30	3		C	
13	SPARE		50	50	3		C	
	d Summary Classification	Connected 20800 VA	Factor 109.86%	Demand 22850 VA	Conne	Panel cted Load:	Totals 339 kVA	
Other	r	7197 VA	100.00%	7197 VA	Connecte	ed Current:	941 A	
Lighti	ng - Interior	500 VA	125.00%	625 VA	Den	nand Load:	341 kVA	
Rece	ptacle - General	12600 VA	89.68%	11300 VA	Demar	nd Current:	947 A	
Elect	ric Water Heating	3000 VA	125.00%	3750 VA				
Powe	er	720 VA	100.00%	720 VA				
Exis	ting Load	1520 VA	125.00%	1900 VA				
Hea	ting	84400 VA	100.00%	84400 VA				
Spai	re	208334 VA	100.00%	208334 VA				

Voltage: 208 V, 3Ø, 4W

 Time Size
 Load (VA)
 Load (VA)
 Load (VA)
 Wile Size

 1.#12, 1.#12, 1.#12
 1846
 1893
 1.#12, 1.#12, 1.#12
 1.#12, 1.#12, 1.#12

 1.#12, 1.#12, 1.#12
 1895
 1798
 1.#12, 1.#12, 1.#12, 1.#12
 1.#12, 1.#12, 1.#12

 1.#12, 1.#12, 1.#12
 1373
 1893
 1.#21, 1.#12, 1.#12
 1.#12, 1.#12, 1.#12

 1.#12, 1.#12, 1.#12
 1421
 2177
 1.#10, 1.#10, 1.#10, 1.#10

 1.#12, 1.#12, 1.#12
 1437
 2177
 1.#12, 1.#12, 1.#12, 1.#12

 1.#12, 1.#12, 1.#12
 1326
 1798
 1.#12, 1.#12, 1.#12, 1.#12

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 1.#12, 1.#12, 1.#12
 13373
 899
 1.#12, 1.#12, 1.#12

 1.#12, 1.#12, 1.#12
 1085
 1200
 1.#12, 1.#12, 1.#12

 1.#12, 1.#12, 1.#12
 1085
 1200
 1.#12, 1.#12, 1.#12

 1.#12, 1.#12, 1.#12
 46
 1200
 1.#12, 1.#12, 1.#12

 1.#12, 1.#12, 1.#12
 46
 1.#12, 1.#12, 1.#12
 </

14 kVA

119 A

Phase C Load (VA)

13 kVA 107 A

1716 VA

44402 VA

6000 VA

Bus Rating: 200 A

Feed-Thru Lugs: No

Features & Modifications:

1-#12, 1-#12, 1-#12 1-#12, 1-#12, 1-#12 528

Connected Load:

Connected Current:

Connected

1584 VA

35521 VA

4800 VA

15 kVA

126 A

Factor 108.33%

125.00%

125.00%

Neutral: 100%

Mains Type: MLO

Mains Rating: 200 A Mains FN/Note: -

SCCR: 10 kA

Panel Totals

Connected Load: 42 kVA

Demand Load: 52 kVA

Connected Current: 116 A

Demand Current: 145 A

Description
SALES FLOOR C1

SALES FLOOR C1

SALES FLOOR C2

SALES FLOOR C1 SALES FLOOR C2

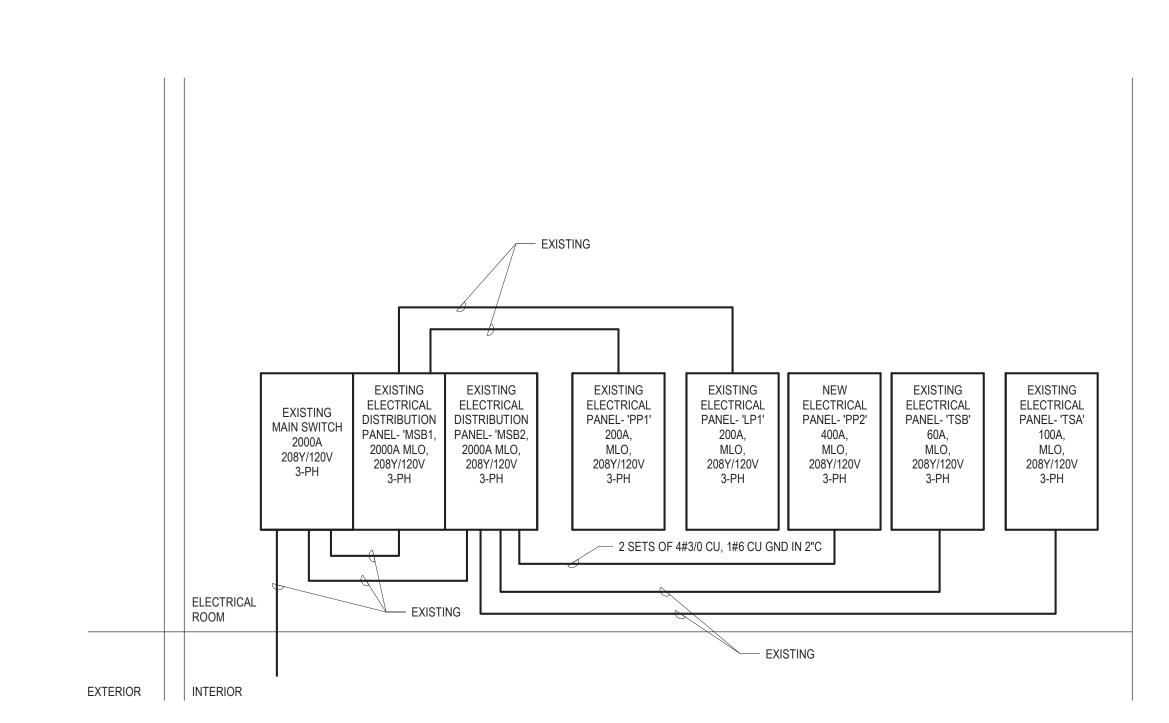
SALES FLOOR C1

SALES FLOOR C2 SALES FLOOR C1

SALES FLOOR C2 SIGNAGE

SIGNAGE

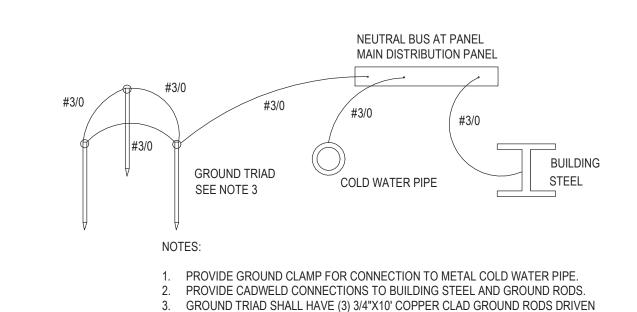
SIGNAGE



LIGHTING CONTROL SCHEDULE										
NUMBER	VOLTS	AMPS/POLES	CIRCUIT NUMBER (PANEL H1P)	REMARKS/NAMEPLATE	NOTES					
C1	120	NOTE 3	LP:2,6,10,14,18	EMPLOYEE LIGHTS (SALES FLOOR 50%)	NOTE 2					
C2	120	NOTE 3	LP:4,8,12,16,20	CUSTOMER LIGHTS (SALES FLOOR 50%)	NOTE 2					
C3	120	NOTE 3	LP:17	BACK OF HOUSE LIGHTS (50%)	NOTE 2					
C4	120	NOTE 3	LP:19	BACK OF HOUSE LIGHTS (50%)	NOTE 2					
C5	120	NOTE 3	LP:1,3,5,7	WALL WASH LIGHTS	NOTE 2					
C6	120	NOTE 3	LP:13	PRODUCTION LIGHTS 1 (BACK OF HOUSE 50%)	NOTE 2					
C7	120	NOTE 3	LP:15	PRODUCTION LIGHTS 2 (BACK OF HOUSE 50%)	NOTE 2					
C8	120	NOTE 3	LP:9,11	SPEED RAIL LIGHTS	NOTE 2					
C9	120	NOTE 3	TSA:1,3,5/ 7,9,11/2,4	EXTERIOR LIGHTS	NOTE 1 & 2					
C10	120	NOTE 3	LP:22,24,26,28	BUILDING SIGN/PYLON LIGHTS	NOTE 1 & 2					

3 ONE LINE DIAGRAM
E400 NOT TO SCALE

C10)	120	NOTE 3	LP:22,24,26,28	BUILDING SIGN/PYLON LIGHTS	NOTE 1 & 2
NOTES:						
1.	PROVI	DE PHOTOCELI	_ (FACING NORTH) FOR CONTROL OF EX	TERIOR LIGHTING.	
2.	CONTA	ACTORS SHOW	N ARE PART OF E	NERGY MANAGEMENT I	PLAN AND ARE LOCATED IN THE IFP. REFER TO EM DR $^{\mu}$	WINGS.
3.	REFER	R TO EM DRAWI	NGS FOR CONTAC	CTOR SIZES.		
4.	REFER	R TO EM DRAWI	NGS FOR WIRING	INSTRUCTIONS OF SPA	ARE CONTACTORS.	



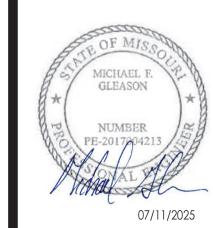
BEYOND THE BUILDING FOUNDATION.	
2 E400_GROUNDING DETAIL E400 NOT TO SCALE	

VERTICALLY UNTIL TOP IS 2' BÉLOW GRADE. LOCATE RODS 10' APART AND 10'

Panelboard: PP1 Location: Supply: MSB1 Mounting: Surface Enclosure: NEMA 1					Voltage: 208 V, 3Ø, 4W Bus Rating: 200 A Neutral: 100% Feed-Thru Lugs: No Features & Modifications:						Mains Type: MLO Mains Rating: 200 A Mains FN/Note: - SCCR: 10 kA					
Ckt	Description	Trip (A)	Poles	Wire Size		ase A d (VA)	Pha: Load			se C I (VA)	Wire Size	Poles	Trip (A)	Description	Ckt	
1	RECEPTACLE - MICROWAVE	20	1	1-#12, 1-#12, 1-#12	1500	1500	Loau	(*^)	Loau	(V A)	1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - MICROWAVE	2	
3	RECEPTACLE - MICROWAVE	20	1	1-#12, 1-#12, 1-#12	1300	1300	1500	1500			1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - MICROWAVE	4	
 5	RECEPTACLE - MICROWAVE RECEPTACLE - BREAKROOM	20	1	1-#12, 1-#12, 1-#12			1500	1300	360	900	1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - MICROWAVE RECEPTACLE - REFRIGERATOR	6	
7	RECEPTACLE - BREAKROOM	20	1	1-#12, 1-#12, 1-#12	360	1500			300	300	1-#12, 1-#12, 1-#12	1	20	MENS HAND DRYER	8	
9	RECEPTACLE - IT CLOSET	20	1	1-#12, 1-#12, 1-#12	300	1300	360	250			1-#12, 1-#12, 1-#12	1	20	EXISTING WATER HEATER/RCP	10	
11	RECEPTACLE - IT CLOSET	20	1	1-#12, 1-#12, 1-#12			300	250	360	1500	1-#12, 1-#12, 1-#12	1	20	WOMENS HAND DRYER	12	
	RECEPTACLE - 11 CLOSE1 RECEPTACLE - FRONT RESTROOMS	20	1	1-#12, 1-#12, 1-#12	360	720			300	1300	1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - WATER COOLER	14	
13			1	1-#12, 1-#12, 1-#12	300	120	360	360				1				
15	FIRE ALARM CONTROL PANEL (EXISTING)	20	1	1 410 1 410 1 410			360	360	200	200	1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - DEDICATED SALES FLOOR	16	
17	RECEPTACLE - SCALE	20	'	1-#12, 1-#12, 1-#12	200	400			360	360	1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - DEDICATED SALES FLOOR	18	
19	RECEPTACLE - CDC WORKSTATION	20	1	1-#12, 1-#12, 1-#12	360	180	0	000			1-#12, 1-#12, 1-#12	1	20	RECEPTACLE -CDC AIR BELL	20	
21	SPARE	20	1				0	900		700	1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - REFRIGERATOR	22	
23	SPARE	20	1						0	720	1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - VENDING MACHINE	24	
25	SPARE	20	1		0	720		200			1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - VENDING MACHINE	26	
27	SPARE	20	1				0	360		222	1-#12, 1-#12, 1-#12	1	20	PHONE BOARD	28	
29	SPARE	20	1						0	360	1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - RESTROOM	30	
31	SPARE	20	1		0	0		_				1	20	SPARE	32	
33	DUCTLESS SPLIT SYSTEM (IT CLOSET)	20	2	2-#12, 1-#12, 1-#12			2088	0		_		1	20	SPARE	34	
35	, , ,			_ ,, _, , , , _, , , , , _					2088	0		1	20	SPARE	36	
37	SPACE		1									1		SPACE	38	
39	SPACE		1									1		SPACE	40	
41	SPACE		1									1		SPACE	42	
				Connected Load:		kVA	8 k		7 k							
				Connected Current:	6	0 A	64	A	58	3 A						
ad Class	ification			Connected		Factor			emand							
otor				3475 VA		110.79%		3	850 VA					anel Totals		
eceptacle	- General			14460 VA		84.58%		12	2230 VA			C	Connected L	oad: 22 kVA		
/AC				3952 VA		125.00%		4	940 VA			Con	nected Cur	rent: 61 A		
												<u> </u>		oad: 21 kVA		
												Г	emand Cur			
													omana Gul	OIL OU A		

ARCH COA #2015008774 ENG COA #2005026904 ARCHITECTURE **ENGINEERING** PERMITTING

1 EAST 22ND STREET, SUITE 400 LOMBARD, IL 60148 630.932.233



07.11.25 ISSUE FOR PERMIT no date remarks



901 EAST LANGSFORD RD. LEE'S SUMMIT, MO

64063

GLEASON

630-946-6679 (O) www.gleasonengr.com Design Firm # 24726

PANEL SCHEDULES AND ONE-LINE DIAGRAM HECKED: MFG DRAWN:

Pane	Location: Supply: MSB2 Mounting: Surface Enclosure: NEMA 1					Bus Ra	•	3Ø, 4W					Mains R Mains FN	Type: MLO ating: 400 A /Note: - SCCR: 10 kA	
Ckt	Description	Trip (A)	Poles	Wire Size		A		В	(Wire Size	Poles	Trip (A)	Description	Ckt
1	EF-4	20	1	1-#12, 1-#12, 1-#12	1200	0						1	20	SPARE	2
3	RECEPTACLE - SCALE	20	1	1-#12, 1-#12, 1-#12			360	360			1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - DEMARC	4
5	RECEPTACLE - DROP OUTLET (TICKET)	20	1	1-#12, 1-#12, 1-#12					360	360		1	20	SECURITY PANEL (EXISTING)	6
7	RECEPTACLE - DROP OUTLET (TICKET)	20	1	1-#12, 1-#12, 1-#12	360	360					1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - DROP OUTLET (TICKET)	8
9	RECEPTACLE - ROOF	20	1	1-#12, 1-#12, 1-#12			900	360			1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - DROP OUTLET (TICKET)	10
11	RECEPTACLE - ROOF	20	1	1-#12, 1-#12, 1-#12					720	360	1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - DROP OUTLET (TICKET)	12
13					7033	360					1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - DROP OUTLET (TICKET)	14
15	HAC-1	70	3	3-#4, 1-#4, 1-#8			7033	360			1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - DROP OUTLET (TICKET)	16
17									7033	360	1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - DROP OUTLET (TICKET)	18
19	SPARE	20	1		0	2400									20
21	DOCK LEVELER (EXISTING)	20	1	1-#12, 1-#12, 1-#12			1520	2400			3-#8, 1-#8, 1-#10	3	40	BATTERY CHARGER	22
23									7033	2400					24
25	HAC-2	70	3	3-#4, 1-#4, 1-#8	7033	720					1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - JANITOR'S SCRUBBER	26
27							7033	1500			2-#12, 1-#12, 1-#12	2	20	WH-1	28
29									7033	1500	<i>= 11 12, 1 11 12, 1 11 12</i>				30
31	HAC-3	35	3	3-#8, 1-#8, 1-#10	7033	1799					2-#12, 1-#12, 1-#12	2	20	WH-2	32
33							7033	1799		4=00					34
35	1140.4	0.5		0 110 4 110 4 1140	7000	4700			7033	1799	2-#12, 1-#12, 1-#12	2	20	WH-3	36
37	HAC-4	35	3	3-#8, 1-#8, 1-#10	7033	1799	7000	000				1	00	DECERTACI E EVICTINO DOCE	38
39	ODADE	00	4				7033	360	0	4000		1	20	RECEPTACLE - EXISTING ROOF	40
41	SPARE	20	1						0	1080	-	1	20	RECEPTACLE - EXISTING ROOF	42
43	SPARE	20	1		0	0	0	0				1	20	SPARE	44
45	SPARE	20	1				0	0	0	0		1	20	SPARE	46
47	SPARE SPARE	20	1			0			0	0		1	20	SPARE SPARE	48
49	SPARE	20	1		0	0	0	0				1	20	SPARE	50
51 53	SPARE	20	1				U	U	0	0		1	20	SPARE	52 54
55	SFAIL	20	Į.	Connected Load:	37	kVA	38	kVA	37 1	-		ı	20	SFAILL	
				Connected Current:		10 A		7 A	309						
oad Classif	cation			Connected		Factor		D	emand						
Votor				8400 VA		121.43%		10)200 VA				Pa	nel Totals	
Other				7197 VA		100.00%			197 VA			C		ad: 112 kVA	
Receptacle -	General			6300 VA		100.00%			300 VA				nected Curre		
Electric Water				3000 VA		125.00%			750 VA					ad: 115 kVA	
Existing Load				1520 VA		125.00%			900 VA			Г	emand Curre		
Heating				84400 VA		100.00%			1400 VA				omana ounc	02071	
Spare				1440 VA		100.00%		1	440 VA						

, and	Location: Supply: MSB2 Mounting: Surface Enclosure: NEMA 1					Bus Rat		שכ, 4۷۷				Mains Ra Mains FN/N	Type: MLO ting: 100 A Note: - CCR: 10 kA	
Ckt	Description	Trip (A)	Poles	Wire Size		se A I (VA)	Phas Load		Pha: Load	Wire Size	Poles	Trip (A)	Description	Ck
1 3 5	EXISTING PARKING LOT LIGHTING	30	3	-	2800	1200	2800	1200	2800		2	20	EXISTING PARKING LOT LIGHTING	2 4 6
7 9 11	EXISTING PARKING LOT LIGHTING	30	3	-	2800		2800		2800					8 10 12
13 15									2000					14
17				Connected Load: Connected Current:			7 k' 58		6 k					18
oad Classif	ication			Connected		Factor		D	emand					
pare				19200 VA		100.00%		19	200 VA				el Totals	
												nnected Curren	nt: 53 A	
											[Demand Load Demand Curren		
lotes:														

Pan	Location: Supply: MSB2 Mounting: Surface Enclosure: NEMA 1					Bus Ra	•	3Ø, 4W					Mains R Mains FN	Type: MLO Rating: 60 A I/Note: - SCCR: 10 kA	
					Dha	ise A	Pha	se B	Dha	se C					
Ckt	Description	Trip (A)	Poles	Wire Size		d (VA)	Load			d (VA)	Wire Size	Poles	Trip (A)	Description	Ckt
1	RECEPTACLE - JUMP START OFFICE	20	1	1-#12, 1-#12, 1-#12	180	360		(-/-)		. (-7-7	1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - CASH WRAP	2
3	RECEPTACLE - CASH WRAP	20	1	1-#12, 1-#12, 1-#12	100		360	360			1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - CASH WRAP	4
5	RECEPTACLE - CASH WRAP	20	1	1-#12, 1-#12, 1-#12					360	720	1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - DRINKING FOUNTAIN	6
7	RECEPTACLE - CASH WRAP	20	1	1-#12, 1-#12, 1-#12	360	360					1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - CASH WRAP	8
9	RECEPTACLE - CASH WRAP	20	1	1-#12, 1-#12, 1-#12			360	500			1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - DOCK LIGHT	10
11	RECEPTACLE - CASH WRAP (JEWELRY)	20	1	1-#12, 1-#12, 1-#12					360	540	1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - MANAGER OFFICE	12
13	RECEPTACLE - JANITOR (EXISTING)	20	1	1-#12, 1-#12, 1-#12	180	360						1	20	RECEPTS - EXISTING ELECTRICAL	14
15	RECEPTACLE - CASH WRAP	20	1	1-#12, 1-#12, 1-#12			360	180			1-#12, 1-#12, 1-#12	1	20	TRAFFIC COUNTER	16
17	FRONT RESTROOM HANDRYER	20	1	1-#12, 1-#12, 1-#12					1500	360	1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - MANAGER OFFICE	18
19	FRONT RESTROOM HANDRYER	20	1	1-#12, 1-#12, 1-#12	1500	360						1	20	RECEPTS - EXISTING ROOF	20
21	EF-0 (EXISTING)	20	1	1-#12, 1-#12, 1-#12			1200	900			1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - JEWELRY COUNTER	22
23	RECEPTACLE - JUMP START OFFICE	20	1	1-#12, 1-#12, 1-#12					360	360	1-#12, 1-#12, 1-#12	1	20	RECEPTACLE - MANAGER OFFICE	24
			'	Connected Load:	4	kVA	4 k	VA	5 I	«VΑ					
				Connected Current:	3	1 A	36	S A	39	9 A					
Load Class	sification			Connected		Factor		D	emand						
Motor				4200 VA		108.93%		4:	575 VA				Pa	nnel Totals	
Lighting - In	terior			500 VA		125.00%			325 VA			(Connected Lo	pad: 12 kVA	
Receptacle				6300 VA		100.00%		6	300 VA			Cor	nected Curre	ent: 35 A	
Power				720 VA		100.00%		7	'20 VA				Demand Lo	pad: 13 kVA	
Spare				720 VA		100.00%		7	'20 VA				Demand Curre		
Notes:															

INTERPLAN INTERPLAN ILC

ENG COA #2005026904

ARCHITECTURE
ENGINEERING

ARCH COA #2015008774

PERMITTING

1 EAST 22ND STREET, SUITE 400 LOMBARD, IL 60148 630.932.2336



07.11.25 ISSUE FOR PERMIT NO DATE REMARKS



901 EAST LANGSFORD RD. LEE'S SUMMIT, MO 64063

PROJECT NO:

E401
ELECTRICAL PANEL SCHEDULES

CHECKED: MFG DRAWN: SLB

ENGINEERING PERMITTING

1 EAST 22ND STREET, SUITE 400 LOMBARD, IL 60148 630.932.233

MICHAEL F. GLEASON NUMBER PE-2017204213

07/11/2025

BRAINBOX 77 Sundial Ave. Suite 301 W Manchester. NH 03

RS DETAILS SAVEF EQUIPMENT FOR REFERENCE ONLY

SECTION

HVAC-4

10

STS

GENERAL INSTRUCTIONS:

BE MADE AIRTIGHT.

SENSOR LOCATION TEST:

STOCKROOM AREA.

1. RUN ALL UNITS IN FAN MODE.

(SIMPLESTAT HVAC CONTROLLERS MOUNTED IN THE SALES AREA OR IN MANAGERS OFFICE)

MANAGERS

OFFICE

TOUCH PLATE

OVERRIDE

NETWORK

SWITCH

10

ON NEW CONSTRUCTION JOBS, INSTALL SENSORS ON DROP POLES, PER DETAIL.

• DO NOT PLACE SENSORS NEAR DOORS, WINDOWS, OR OTHER SOURCES OF HEAT, COLD, OR

ETC) IT MUST BE INSULATED FROM THE FINISHED SURFACE AND WIRE PENETRATIONS MUST

IF A SENSOR IS PLACED ON AN ARCHITECTURAL OR STRUCTURAL SURFACE (IE COLUMNS,

2. TEST ALL SENSOR LOCATIONS TO DETERMINE IF ANY ARE GETTING HIT BY AIR FROM A

4. STOCKROOM SENSOR PLACEMENT SHALL BE OVER STOCKROOM DOOR WITH IN

FOR SYSTEMS WITH NON-DUCTED (PLENUM) RETURNS, SENSORS SHALL BE PLACED:

• PLACE AT LEAST ONE (1) EGG CRATE RETURN GRILL OVER EACH SENSOR LOCATION.

WIRING LEGEND

DO NOT PLACE A SENSOR ON AN OUTSIDE WALL OR TENANT COMMON WALL.

LOCATE SENSOR FULLY WITHIN THE ZONE OF THE UNIT IT CONTROLS.

SPACE TEMPERATURE SENSOR PLACEMENT INSTRUCTIONS

DO NOT PLACE SENSORS HIGHER THAN 7'-0" AFF.

SUPPLY DIFFUSER. (TISSUE, BALLOON OR SMOKE TEST)

3. IF SO, RELOCATE SENSOR (PREFERRED) OR OFFENDING DIFFUSER.

FOR SYSTEMS WITH CONCENTRIC DIFFUSERS, SENSORS SHALL BE PLACED:

A MINIMUM OF 20'-0" FROM DIFFUSERS (SYSTEMS LARGER THAN 10-TONS)

A MINIMUM OF 15'-0" FROM DIFFUSERS (10-TON SYSTEMS OR SMALLER)

FOR SYSTEMS WITH DUCTED RETURNS, SENSORS SHALL BE PLACED:

AS CLOSE TO THE RETURN AIR GRILL AS POSSIBLE.

HVAC-#

RA SA DTS

RAII
7 Sundi

 $\mathbf{Z} \mathbf{S} \mathbf{A} \mathbf{B}$

DATE: 10/06/21 | ECN#: 2364

DATE: 06/21/24 ECN#: 2439

PUT METER ON SN2 FIX CR1 WIRING UPDATE EM2 ETHERNET NOTE

DATE: 3/21/25 ECN#: 2514

REVISION: ---DATE: ---- ECN#: ----

UPDATE EM3 F1 FUSE TO 2.5 AMP

DRAWN: WPC CHECKED: CGP PART #: 94-355 OPTION: H

ENERGY

MANAGEMENT

PLAN

EM-2 of 4

ADD NEW eSCi REF ECN 2359

REVISION: 1.10

REBRAND TO BBAI

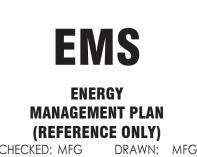
DATE: 10/06/21 | ECN#: 2364 REBRAND TO ABB ADD NEW eSCi REF ECN 2359 REVISION: 1.10

DATE: 06/21/24 | ECN#: 2439 PUT METER ON SN2 FIX CR1 WIRING UPDATE EM2 ETHERNET NOTE DATE: 3/21/25 ECN#: 2514 UPDATE EM3 F1 FUSE TO 2.5 AMP REBRAND TO BBAI REVISION: ---DATE: ---- ECN#: ----

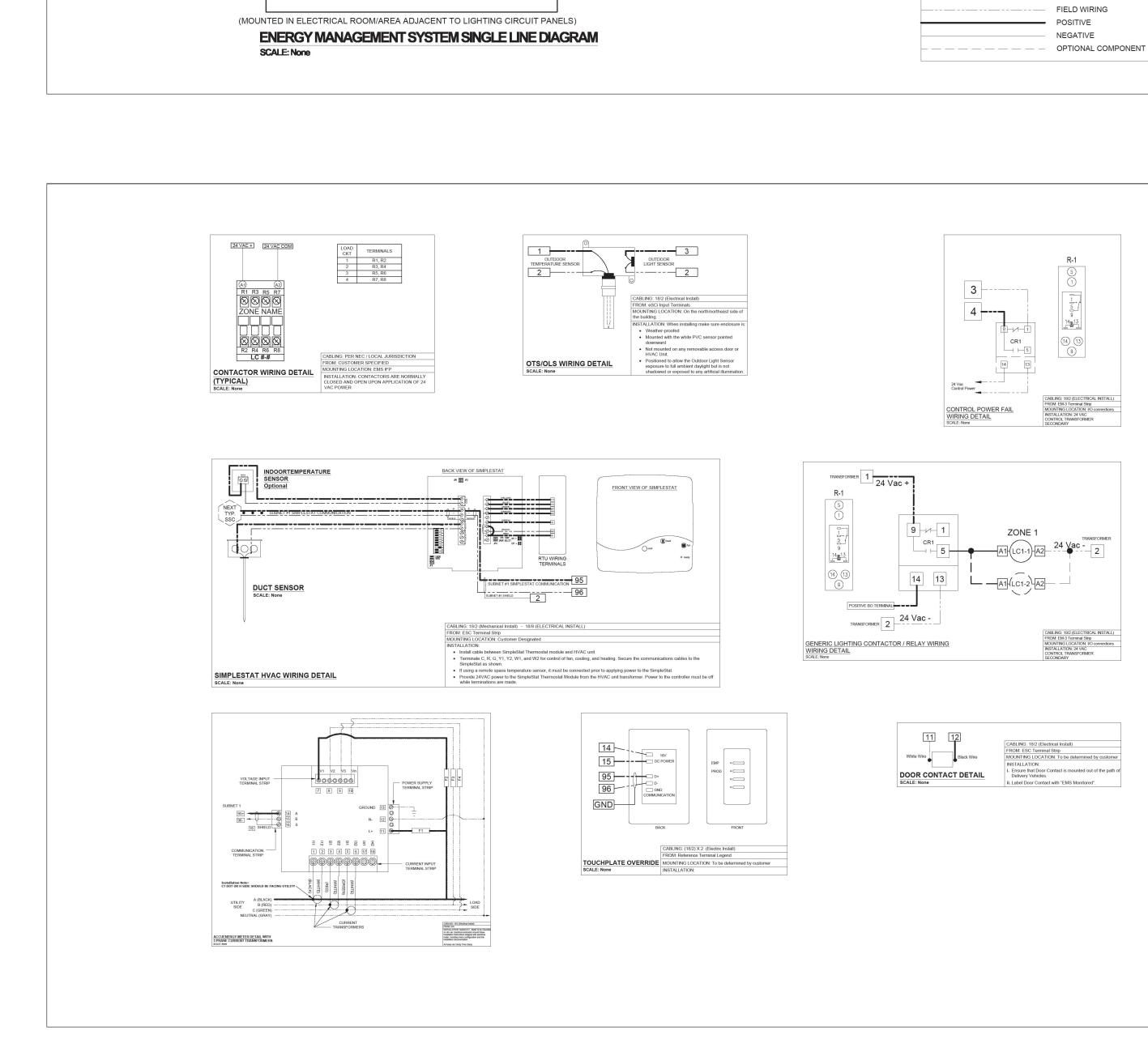
ENGINEERIN

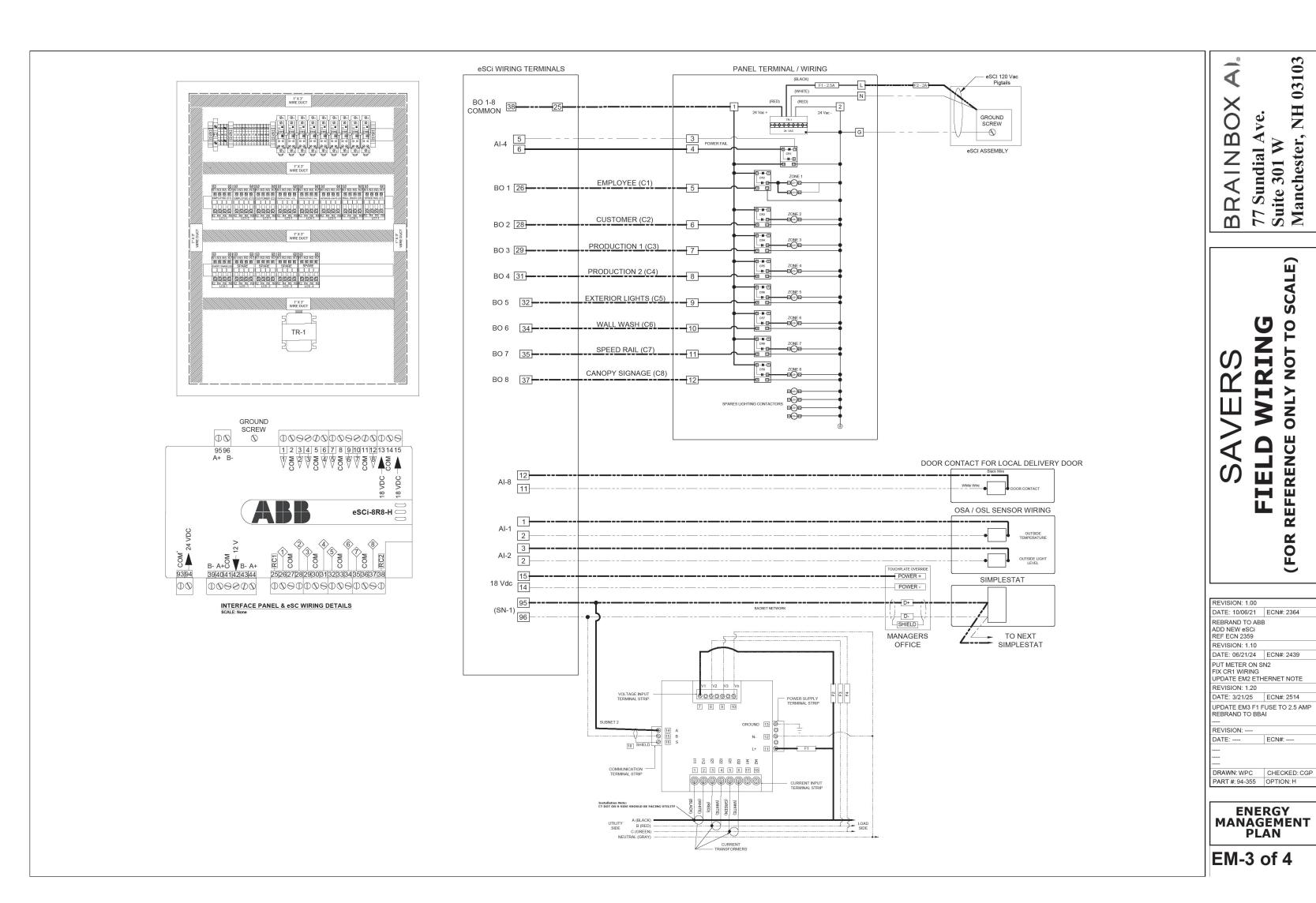
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64063









GENERAL CONTRACTOR'S RESPONSIBILITIES:

ii. Offer a brief overview of the installation process

Label breaker: DO NOT TURN OFF / EMS

ii. Customer lights (C2): remaining 50% of sales

vi. Wall Wash lights (C6): all interior wall wash lighting

ii. Mounted with the white PVC sensor pointed downward

iii. Installed and configured per included the OEM instructions.

Contact BBAI to schedule a remote checkout at (888) 211-6789.

c. Perform all work in accordance with all National, State and Local Codes for this project.

Utilizing 18/8 cable between the SimpleSTAT module and HVAC unit.
 Terminate C, R, G, Y1, Y2, W1 and W2 on the HVAC unit for control of fan. cooling and healing.

iii. Install and secure the Remote Temperature Sensor wire to the Thermostat Controller.

. Provide a technician, on site, for an approximate 2-hour remote telephone checkout with BBAI.

Outside light level control of all applicable EMS lighting loads – Interior and Exterior.
 Operation of HVAC heating stages, as indoor environment allows.

Operation of HVAC cooling stages, as indoor and outdoor environments allow.
 Verification of HVAC unit sensor readings – space and supply temperatures.

ii. Terminate the communications cables to the SimpleSTAT(s) as shown in this documentation package

ii. Communication Port 1 is addressed to 30.

Configured for the proper CT amperage.

ii. Label Door Contact with "EMS Monitored".

SimpleSTAT shall be mounted at 7' AFF.

. Provide Electrical Contractor with:

IV. BBAI COMMERCIAL ENERGY SOLUTIONS RESPONSIBILITIES:

The following services will be supplied by BBAI:

i. Shipping of all contracted EMS components for the job.

iv. Remote system checkout with installing contractor Verification of proper operation of the following items by exercising the controlled load:
 i. Timed operation of all applicable EMS lightling loads – Interior and Exterior.

i. Programming and downloading of BBAI equipment and software

III. MECHANICAL RESPONSIBILITIES:

n. Mount the eSCi and IFP adjacent to one another and to the electrical panels.

c. Contractor will contact the store manager immediately upon arriving onsile to:

i. Confirm permission to begin EMS installation

i. Serve as the BBAI point of contact for the manager and to help resolve all issues or questions that arise during the installation process. d. Confirm BBAI Survey Form is completed and EMAILED to BBAI National Account Team at: retail.surveys@brainboxai.com or FAXED to (855) 224-0879.

a. Provide all labor and installation material, as required, for a complete and operational EMS for this Savers store location.

g. Coordinate the EMS installation with the Mechanical Contractor to avoid any interference that may delay progress during construction.

Furnish and install all required conduit, boxes, wire ways, filtings, straps, hangers and wiring for a complete and operational EMS as required.
 Furnish and install a dedicated 120 VAC circuit with breaker lock for the eSCI and Contactor interface Panel (IFP).

Mount and terminate the Outdoor Sensor Assembly (OSA) on the north/northeast side of the building. When installing, make sure enclosure is:
 i. Weather-proofed

t. Mount and terminate the O/H Door monitoring switch as per the location specified by the Savers drawings and this documentation package.

u. Mount and terminate the Override Button assembly as per the location specified by the Savers drawings and this documentation package.
v. Provide a technician, on site, for an approximate 2-hour remote telephone checkou

iii. Fill in, completely, the EMS Survey forms below and either email them to: retail.surveys@brainboxai.com, or fax them to BBAI at (855) 224-0879.

h. Mount and terminate the Remote Space Temperature Sensor(s) as per the localion(s) specified by the Savers drawings and this documentation package.

ii. In close proximity to the zone return air grille and away from supply air drafts.

iv. Positioned to allow the Outdoor Light Sensor exposure to full ambient daylight but is not shadowed or exposed to any artificial illumination

EMT connectors and bushings are to be installed at the top of every conduit sleeve and threaded connector to protect EMS cables from abrasions.
 All cables are to be clearly and distinctly labeled within one foot of both ends.

i. Confirm wiring is completed as per this documentation package before applying power. Improper wiring will cause damage to equipment.

p. Install an Ethernet cable from the eSCI RJ-45 jack located in the EMS panel to the network switch, located in the Manager's Office, as specified by the Savers networking team.

p. Install and terminate the BBAI BACnet communication trunk in a daisy chain fashion from the eSCI Controller to each of the Thermostat Controls. (see this documentation package for requirements)

b. Receive and store all BBAI material in a dry and secure place until the EMS installation is completed.

iv. Production lights 2 (C4): 50% of the production area, with CDC if back of house (Employee)

vii. Speed Rail lights (C7): all lighting in the speed rail area
viii. Canopy / Signage (C8): all exterior canopy, pylon and sign lights (dusk to dawn lighting)

s. Mount and terminate the BACnet Energy Meter and meter enclosure. When installing, make sure enclosure/meter is:
i. Terminated to the BBAI Subnet 1 communication port.

w. Coordinate with the Mechanical Contractor to verify HVAC control during the BBAI remote telephone checkout

i. Confirm the Mechanical Contractor has provided specific HAVC details (Make, Model, etc) for each unit.

ii. Confirm the Mechanical Contractor will be present during the BBAI Remote Commissioning Checkout.

a. Provide labor and installation material, as required, for a complete and operational EMS for this Savers store location.

d. Mount and terminate the SimpleSTAT module(s) as per the location(s) specified by the Savers drawings and this documentation package.

Roof plan layout, showing location of HVAC Units on the roof.
 EMS Survey Information (Make, Model, Serial Number, Zone Name, Heat/Cool Stage Count, etc.) for each HVAC unit.

k. Coordinate with the Electrical Contractor to verify proper HVAC control during the BBAI Remote Commissioning Checkout.

e. Schedule remote EMS commissioning 24 hours prior to the requested commissioning date. Contact BBAI Brainbox AI Retail Inc. at (888) 211-6789 and submit survey for scheduling remote EMS commissioning.

c. The EMS equipment will be supplied by BBAI and installed by an approved BBAI contractor.
d. Review the entire set of plans, perform a job site survey and inventory the BBAI equipment to ensure the proper equipment has been ordered and received for a complete and operational BBAI EMS.

Power to all EMS equipment and devices must be OFF while terminations are made,

q. Mount the contactor panel adjacent to the electrical panels. Install the lighting circuit home runs from the fixtures straight to the load side of the contactors. Install the circuits from the line side of the contactors to each breaker. The lighting zones and loads will be configured as follows:

i. Employee lights (C1): 50% of sales, with CDC if front of house

Power to all EMS equipment and devices must be OFF while terminations are made.

b. Verify number and type of HVAC units and unit heaters against the design, report discrepancies, which cannot be resolved in the field, to the BBAI National Account Support Team at (888) 211-6789 and wait for resolution instructions.

f. Set address on the SimpleSTAT module, as shown in the SimpleSTAT installation instructions. When communications to the EMS is in a failed state, the SimpleSTAT will operate 24/7 as a stand-alone STAT using the following temperature setpoints;

c. If any end unit (e.g. lighting, HVAC unit, supply air fan, unit heater, etc.) cannot be operated for mechanical or electrical reasons, BBAI will verify the proper operation of the control devices (e.g. contactors, discrete I/O) leading up to the unit.

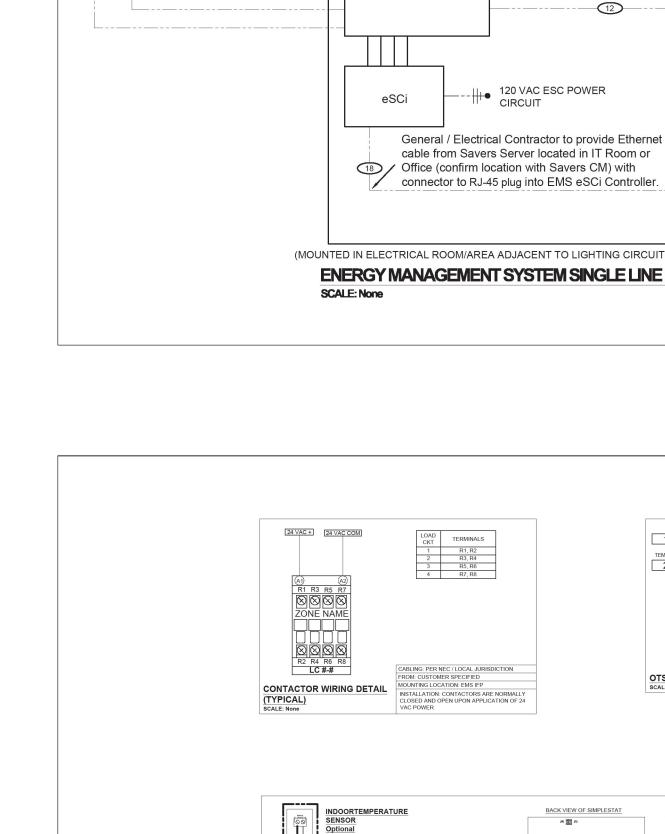
g. Mount and terminate the Down Rod and Remote Space Temperature Sensor(s) as per the location specified by the Savers drawings and this documentation package. Refer to BBAI Special Instructions for Down Rod / Remote Space Temperature Sensor(s) installation.

e. If any material is missing or additional equipment is required, immediately call BBAI at (889) 211-6799 to request an order.

f. Approved Contractor shall verify number of controlled lighting circuits against the design, report discrepancies, which cannot be resolved in the field, to the BBAI National Account Support Team at (889) 211-6799 and wait for resolution instructions.

i. All EMS cables are to be installed per National and Local Codes. It is the Electrical Contractor's responsibility to determine if National and Local Codes permit Class 2 cables to be installed exposed within the building structure or if a full conduit system is required

Review all Savers drawings.



10

- | 120 VAC IFP POWER CIRCUIT

ENERGY

METER

DOOR SENSOR

10

EMS / IFP

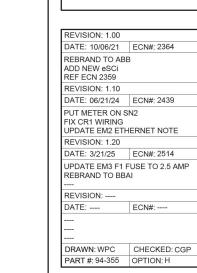
CONTACTOR PANEL

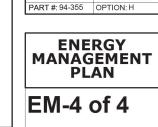
REMOTE SPACE TEMPERATURE

SENSOR ON CEILING MOUNTED

DOWN ROD(S)

10 10 10





901 EAST LANGSFORD RD LEE'S SUMMIT, MO

07.11.25 ISSUE FOR PERMIT

no date remarks

REVISIONS

PART I - GENERAL

A. COORDINATE WITH ON-SITE COORDINATION TEAMS.

1 CODES, RULES AND REGULATIONS

- B. ALL WORK AND MATERIALS SHALL CONFORM TO THE LOCAL AND STATE CODES AND ALL STATE AND OTHER APPLICABLE LAWS AND REGULATIONS.
- WHENEVER INDICATED, MATERIAL, WORKMANSHIP, ARRANGEMENT OR CONSTRUCTION IS OF HIGHER QUALITY OR CAPACITY THAN THAT REQUIRED BY THE 2.1 DIFFUSERS AND GRILLES ABOVE CODES, THE DRAWINGS AND/OR SPECIFICATIONS SHALL GOVERN.
- . SHOULD THERE BE ANY DIRECT CONFLICT BETWEEN CODES AND THE DRAWINGS AND/OR SPECIFICATIONS. THE CODES, LAWS OR REGULATIONS SHALL GOVERN.
- ALL MATERIAL, EQUIPMENT INSTALLATION AND OPERATION SHALL BE IN FULL COMPLIANCE WITH ARCHITECTURAL MANUFACTURER'S SPECIFICATION AND REQUIREMENTS.

2 WORKING DRAWINGS

- A. THE WORKING DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW REQUIRED FOR INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL WORK SHALL BE CHECKED AND COORDINATED WITH THE ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL
- . WHERE EQUIPMENT IS SHOWN, DIMENSIONS HAVE BEEN TAKEN FROM TYPICAL EQUIPMENT OF THE CLASS INDICATED, CAREFULLY CHECK THE DRAWINGS TO SEE THAT THE EQUIPMENT UNDER CONSIDERATION FOR INSTALLATION WILL FIT THE SPACE PROVIDED AND THAT ALL CONNECTIONS MAY BE MADE THERE TO WITHOUT IMPAIRMENT OF AREA AND HEIGHT REQUIREMENTS AND OF CODE REQUIRED CLEARANCES.

3 RECCORD DRAWINGS

A. RECORD DRAWINGS, SHOWING DIMENSIONS, LOCATIONS, AND DEPTHS OF ALL BURIED AND CONCEALED PIPING AND EQUIPMENT SHALL BE KEPT UP TO DATE. MASTER COPY SHALL BE KEPT ON THE JOB. NO BACKFILLING OF TRENCHES WILL BE PERMITTED UNTIL RECORD DRAWINGS ARE APPROVED AS UP TO DATE BY THE OWNER'S REPRESENTATIVE. NO PLUMBING PROGRESS PAYMENTS WILL BE APPROVED UNLESS RECORD DRAWINGS ARE UP TO DATE. DEPTH OF SEWERS SHALL BE FROM A PERMANENT BENCHMARK AS SHOWN ON CONTRACT DRAWINGS.

04 GUARANTEES

A. FURNISH WRITTEN GUARANTEE (FOR NEWLY INSTALLED EQUIPMENT) TO OWNER FOR A PERIOD OF ONE YEAR FROM DATE OF C.O. COVERING ALL DEFECTS IN MATERIAL AND WORKMANSHIP. SHOULD ANY TROUBLE DEVELOP DURING THIS PERIOD DUE TO DEFECTIVE MATERIALS OR FAULTY WORKMANSHIP, THE CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR AND MATERIAL AND CORRECT THE TROUBLE PROMPTLY AND WITHOUT ANY ADDITIONAL COST TO THE OWNER.

PERMITS

A. UNLESS OTHERWISE DISTINCTLY HEREIN SPECIFIED, THIS CONTRACTOR SHALL APPLY AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION OVER HIS WORK.

06 VISITING THE PREMISES

- A. THE CONTRACTOR. BEFORE SUBMITTING HIS BID ON THE WORK, MUST VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. AS A RESULT OF HAVING VISITED THE PREMISES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE WORK AS IT RELATES TO SUCH VISIBLE EXISTING CONDITIONS.
- B. THE SUBMISSION OF A BID WILL BE CONSIDERED AN ACKNOWLEDGMENT ON THE PART OF THE BIDDER OF HIS VISITATION TO THE SITE.

PRODUCT DELIVERY HANDLING AND STORAGE

- A. STORE MATERIALS OFF THE GROUND.
- B. MANUFACTURER'S LABEL REQUIRED ON EACH STORAGE CONTAINER.
- C. PROTECT FROM WEATHER AND DAMAGE.

PART 2 - PRODUCTS MATERIAL

A. ALL MATERIALS AND PRODUCTS USED FOR CONSTRUCTION SHALL BE NEW, OF THE 3.1 DUCTWORK BEST GRADE AND THE LATEST PRODUCTS AS LISTED IN PRINTED CATALOG DATA. ALL ARTICLES OF A KIND SHALL BE THE STANDARD PRODUCT OF A SINGLE MANUFACTURER. TRADE NAMES AND MANUFACTURER'S NAMES DENOTE THE CHARACTER AND QUALITY OF EQUIPMENT DESIRED AND SHALL NOT BE CONSTRUED AS LIMITING COMPETITION. EQUIPMENT TO BE U.L. APPROVED WHERE

PART 3 - EXECUTION 1 SITE OBSERVATION

- A. ALL WORK AND MATERIALS SUBJECT TO FIELD OBSERVATION AT ANY AND ALL
- TIMES BY OWNER'S REPRESENTATIVE. 3. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE A MINIMUM OF TWO WORKING DAYS PRIOR TO TESTING ANY PIPING SYSTEM WHICH MUST BE
- IF OBSERVER FINDS ANY MATERIAL OR WORK NOT CONFORMING TO THESE SPECIFICATIONS. THE CONTRACTOR SHALL, WITHIN THREE WORKING DAYS AFTER BEING NOTIFIED, REMOVE MATERIALS FROM THE PREMISES. IF THE MATERIAL HAS BEEN INSTALLED. THE ENTIRE EXPENSE OF REMOVING AND REPLACING WILL BE BORNE BY CONTRACTOR.

WITNESSED AND APPROVED BEFORE IT IS COVERED UP OR ENCLOSED.

WORKMANSHIP AND SUPERVISION

A. CONSTANTLY SUPERVISE WORK COVERED BY THESE SPECIFICATIONS. VERIFY ALL CONDITIONS ON JOB SITE AND LAY OUT WORK ACCORDINGLY.

03 PROTECTION OF EXISTING UTILITIES

A. LOCATE AND CAREFULLY PROTECT EXISTING UTILITIES AND BUILDING SERVICES TO PREVENT DAMAGE TO SUCH INSTALLATIONS. WHERE NECESSARY, REROUTE, REMODEL OR DIVERT SUCH INSTALLATIONS SO THEIR USE WILL BE UNINTERRUPTED. IF ANY DAMAGE OCCURS, REPAIR TO ORIGINAL CONDITION AT NO COST TO OWNER. HAND EXCAVATE WHERE REQUIRED.

04 COMPLETION REQUIREMENTS

SYSTEMS SHALL BE TESTED BY THE CONTRACTOR TO DEMONSTRATE TO THE OWNER'S REPRESENTATIVE THAT ALL EQUIPMENT FURNISHED AND INSTALLED OR CONNECTED UNDER THE PROVISIONS OF THESE SPECIFICATIONS FUNCTIONS MECHANICALLY IN THE MANNER REQUIRED. AT THE TIME OF THIS DEMONSTRATION, THE CONTRACTOR SHALL DELIVER TO THE OWNER'S REPRESENTATIVE FOUR BOUND COPIES OF THE FOLLOWING MATERIALS.

A. UPON COMPLETION OF THE WORK AND ADJUSTMENT OF ALL EQUIPMENT, ALL

- 1. CATALOG DESCRIPTION OF EACH ITEM OF EQUIPMENT ACTUALLY INSTALLED ON THE JOB.
- 2. SPARE PARTS LIST OF MANUFACTURER'S RECOMMENDED REPLACEMENT PARTS FOR EACH FIXTURE AND ITEM OF EQUIPMENT.
- B. OPERATING AND MAINTENANCE INSTRUCTIONS FOR EACH ITEM OF EQUIPMENT REQUIRING INSPECTION, LUBRICATION OR SERVICE, DESCRIBING AND SCHEDULING THE PERFORMANCE OF SUCH MAINTENANCE.

AIR DISTRIBUTION:

PART I - GENERAL

- 1.1 SHOP DRAWINGS PROVIDE SHOP DRAWINGS FOR THE FOLLOWING EQUIPMENT. A. EXHAUST FANS
- B. DIFFUSERS AND GRILLES C. DAMPERS.

PART 2-PRODUCTS

A. DIFFUSER SIZING BASED ON AIR BEING INTRODUCED AT 20°F. TEMPFRATURF DIFFERENTIAL AND AIR BEING DIFFUSED AT THE FIVE FOOT LEVEL TO A VELOCITY NOT GREATER THAN 50 FPM. DIFFUSERS SELECTED SO AS NOT TO EXCEED THE NC-33 CURVE WHEN THE VOLUME DAMPER IS 50% OPEN. MANUFACTURE SHALL GUARANTEE TO MEET THE ABOVE PERFORMANCE FACTORS OR REPLACE ALL DIFFUSERS WHERE REQUIRED. SEE SCHEDULE ON DRAWINGS FOR MANUFACTURER 1.2 SUBMITTALS AND MODELS.

2.2 DAMPERS

- A. SPIN-IN FITTINGS: RUN-OUTS TO DIFFUSERS CONNECT TO MAINS WITH SPIN-IN FITTINGS WITH AIR SCOOP AND VOLUME DAMPER.
- B. EXTRACTORS: PROVIDE AT ALL RIGHT ANGLE SUPPLY BRANCHES. C. VOLUME DAMPERS (VD): PROVIDE IN SUPPLY, EXHAUST AND RETURN DUCTS AS REQUIRED FOR BALANCING AND CONSTRUCT OF GALVANIZED SHEETS NOT LIGHTER THAN 18 GAUGE, REINFORCED TO PREVENT VIBRATION, EQUIPPED AT

BOTH ENDS WITH BRASS BEARING MOUNTS AND OF SUFFICIENT LENGTH TO

PROVIDE A COMPLETE SHUTOFF OF THE DUCT, PROVIDE EACH DAMPER WITH

OPERATORS AS SPECIFIED. MANUFACTURERS: VENT PRODUCTS, GREENHECK OR

RUSKIN ONLY D. PROVIDE EACH DAMPER WITH ADJUSTMENT AND LOCKING QUADRANT DEVICES AS MANUFACTURED BY YOUNG REGULATOR CO., NO. 403 OPERATOR FOR ACCESSIBLE LOCATIONS AND NO. 315 IN CHROME-PLATED FINISH FOR INACCESSIBLE

2.3 DUCT CONSTRUCTION

LOCATIONS.

- A. LOW PRESSURE DUCTWORK, CONSTRUCTED FROM GALVANIZED SHEET METAL TO CONFORM TO SMACNA MANUAL. LOCAL CODE AND ASHRAE GUIDE TABLE, LATEST B. FLEXIBLE DUCTS. GALVANIZED SPRING STEEL WIRE HELIX COVERED WITH
- CONTINUOUS LINER AND ATTACHED TO LINER WITH SPRAY COATING, 1 INCH THICKNESS OF FIBERGLASS INSULATION, PLASTIC VAPOR BARRIER JACKET SEALED AT BOTH ENDS. 0.25 K FACTOR AT 75°F MEAN TEMPERATURE RATED FOR CONTINUOUS SERVICE AT 1.5 INCH S.P. ALL JOINTS MADE WITH 1/2 INCH WIDE POSITIVE LOCKING STEEL STRAPS. UL APPROVED PER UL 181. MAXIMUM LENGTH OF FIVE FEET ON SUPPLY DUCTS. GENFLEX, THERMAFLEX, CLEAVAFLEX. A CERTIFIED NEBB AIR BALANCE REPORT SHALL BE SUBMITTED TO THE OWNER
- D. DUCT SIZES SHOWN ARE THE INSIDE CLEAR DIMENSIONS OF THE SHEET METAL. INCREASE DUCT SIZE AS NECESSARY TO ACCOMMODATE THE THICKNESS OF THE DUCT LINER.

2.4 EXHAUST FANS

- A. ALL FANS SHALL BE AMCA CERTIFIED FOR PERFORMANCE AND SOUND AND SHALL BEAR THE AMCA LABEL.
- B. FANS SHALL BE OF THE CAPACITY, SIZE, ACCESSORIES AND ARRANGEMENT AS SCHEDULED. THE FAN'S DESIGN IS BASED ON THE MANUFACTURER AND MODEL SPECIFIED AND/OR SCHEDULED. FANS SHALL BE FURNISHED WITH GUARDS. DISCONNECT SWITCH, BIRD SCREENS, DAMPERS, ISOLATORS, MOTORS, CURB FLASHING AND OR ACCESSORIES AS SPECIFIED AND/ OR SCHEDULED AND SHALL BE COMPLETELY OPERABLE AFTER INSTALLATION. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL WHEN MOTOR SIZES ARE DIFFERENT FROM THOSE SCHEDULED. MANUFACTURERS: COOK, ACME, AND GREENHECK.
- C. EQUIVALENT FAN SELECTION SHALL NOT INCREASE MOTOR HORSEPOWER, NOISE LEVEL, OR TIP SPEED BY MORE THAN 10%, OR INCREASE INLET AIR VELOCITY BY MORE THAN 20%, FROM THAT SPECIFIED.
- CENTRIFUGAL ROOF VENTILATOR. FANS SHALL BE OF CENTRIFUGAL ROOF MOUNTED WITH AN ALL WELDED FLASHING TYPE CURB BASE, BELT OR DIRECT DRIVEN TYPE AS SCHEDULED. THE FANS SHALL BE U.L. LISTED. WHEELS SHALL BE STATICALLY AND DYNAMICALLY BALANCED TO ASSURE SMOOTH AND VIBRATION FREE OPERATION. ENTIRE DRIVE ASSEMBLY SHALL BE MOUNTED ON VIBRATION ISOLATORS. MOTORS SHALL BE OF THE HEAVY DUTY TYPE WITH PERMANENTLY LUBRICATED, SEALED BALL BEARINGS. FANS SHALL BE PROVIDED WITH BIRDSCREENS, BACK DRAFT DAMPER, DISCONNECT SWITCH AND ROOF CURB. AN ELECTRICAL CONDUIT SHALL BE PROVIDED THROUGH THE FAN BASE INTO MOTOR COMPARTMENT TO FACILITATE WIRING.

PART 3 - EXECUTION

- A. ERECT ALL DUCTWORK IN A FIRST-CLASS AND WORKMANLIKE MANNER, TRUE TO DIMENSIONS INDICATED. STRAIGHT AND SMOOTH ON INSIDE WITH NEATLY FINISHED JOINTS LAPPED IN THE DIRECTION OF AIR TRAVEL. PROPERLY BRACE AND REINFORCE ALL DUCTS WITH STEEL ANGLES OR OTHER MEMBERS.
- B. ELBOWS. STANDARD CENTERLINE RADIUS SHALL EQUAL 1-1/2 TIMES THE WIDTH OF THE DUCT. C. SQUARE TURNS SHALL BE PROVIDED WITH AIR FOIL TYPE TURNING VANES.
- DUCT SIZES SHOWN ON THE DRAWINGS ARE THE NET INSIDE DIMENSIONS. E. ACCESS DOORS IN DUCTWORK SHALL BE LOCATED AS REQUIRED FOR SERVICE OF FIRE DAMPERS, AUTOMATIC DAMPERS AND OTHER ITEMS REQUIRING MAINTENANCE OR INSPECTION. VENT PRODUCT MINIMUM SIZE 12x12 OR EQUIVALENT AREA.
- F. DUCT HANGERS AND SUPPORTS: HANG GALVANIZED DUCTS UNDER 36 INCHES DIAMETER OR MAXIMUM SIDE DIMENSION WITH GALVANIZED STRIPS OF NO. 16 U.S.S. GAUGE STEEL ONE INCH WIDE AND ALL LARGER DUCTS WITH STEEL ANGLES AND ADJUSTABLE HANGER RODS SIMILAR TO PIPING HANGERS. ANCHOR ALL DUCTS SECURELY TO BUILDING IN SUCH MANNER AS TO PREVENT TRANSMISSION OF VIBRATION TO STRUCTURE. G. SEAL ALL JOINTS IN DUCTS WITH 3M CO. OR JOHNS-MANVILLE CO. INDUSTRIAL

GRADE PRESSURE SENSITIVE TAPE.

A. SUPPLY AND INSTALL SHEAVES AS NECESSARY FOR FINAL AIR BALANCING. B. SET ROOF MOUNTED FANS ON CURBS. PROVIDE ACOUSTIC INSULATION ON DUCT TO BELOW ROOF LINE AND ON FAN INLET PLENUM AND DRIP PAN FOR COLLECTING CONDENSATION. APPROVED BEFORE IT IS COVERED UP OR ENCLOSED.

INSULATION:

1.1 QUALITY ASSURANCE

PART 1 - GENERAL

- A. QUALIFICATION OF WORKMEN. USE PROFICIENT INSULATORS AND SUPERVISORS IN THE EXECUTION OF THIS PORTION OF THE WORK TO ENSURE PROPER AND ADEQUATE INSTALLMENT OF INSULATION THROUGHOUT.
- B. COMPLIANCE WITH SPECIFICATIONS: 1. WHENEVER REQUIRED DURING PROGRESS OF THE WORK FURNISH PROOF ACCEPTABLE TO THE OWNER THAT ITEMS INSTALLED EQUAL OR EXCEED ALL
- REQUIREMENTS SPECIFIED FOR THIS WORK IN THE EVENT SUCH PROOF IS NOT AVAILABLE, OR IS NOT ACCEPTABLE TO THE OWNER, THE OWNER MAY REQUIRE THE CONTRACTOR TO REMOVE THE ITEM OR ITEMS AND REPLACE WITH MATERIAL MEETING THE SPECIFIED REQUIREMENTS AND TO REPAIR ALL DAMAGE CAUSED IN THE REMOVAL AND

A. A. PRODUCT DATA. BEFORE INSULATING MATERIALS ARE DELIVERED TO THE JOB SITE, SUBMIT COMPLETE DATA SHOWING INSULATION MATERIALS PROPOSED TO BE FURNISHED AND INSTALLED.

REPLACEMENT, ALL AT NO ADDITIONAL COST TO THE OWNER.

1.3 PRODUCT HANDLING

A. PROTECTION. USE ALL MEANS NECESSARY TO PROTECT INSULATION MATERIALS BEFORE, DURING, AND AFTER INSTALLATION. B. REPLACEMENTS: IN THE EVENT OF DAMAGE, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY.

1.4 1.4-FIRE HAZARD CLASSIFICATION

- A. MAXIMUM FIRE HAZARD CLASSIFICATION OF THE COMPOSITE INSULATION CONSTRUCTION AS INSTALLED SHALL BE NOT MORE THAN A FLAME SPREAD OF 25,
- FUEL CONTRIBUTED OF 50 AND SMOKE DEVELOPED OF 50. B. PIPE INSULATION SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF U.L. PIPE AND EQUIPMENT COVERINGS R5583 400 8.15
- C. DUCT INSULATION SHALL BE TESTED IN ACCORDANCE WITH ASTM E84 AND BEAR THE U.L. LABEL. 1.5 ACCEPTABLE MANUFACTURERS: OWENS-CORNING, MANVILLE CO., JOHNS, PPC, KNAUF, ARMSTRONG.

PART 2 - PRODUCTS

- 2.1 2.1-MATERIAL A. DUCT LINING
 - 1. 1. ACOUSTICAL DUCT LINER WITH THERMAL CONDUCTIVITY OF 0.26 BTU-IN. PER SQUARE FOOT PER HOUR PER °F, AT 75°F. MEAN TEMPERATURE. MINIMUM DENSITY OF 1.5 POUNDS PER CUBIC FOOT.
 - 2. 2. BASED ON A NO. 6 MOUNTING IN ACCORDANCE WITH TEST METHOD ASTM-C-423, LINER SHALL HAVE SOUND ABSORPTION COEFFICIENTS AS FOLLOWS:
- A. DUCT WRAP. FIBERGLASS DUCT INSULATION TYPE 150, 1-1/2" THICK OF R=6.0 W SQ.FT. F/ BTUH AT 75°F. MEAN TEMPERATURE MIN. DENSITY OF 1.5 POUNDS PER CUBIC FOOT. FACTORY APPLIED FLAME RETARDANT FOIL REINFORCED KRAFT VAPOR BARRIER FACING. FLAME SPREAD NOT TO EXCEED 25 AND SMOKE

PART 3- EXECUTION

DEVELOPED NOT TO EXCEED 50.

WITH 1-1/2' FIBERGLASS DUCTWRAP.

3.1 INSULATION THICKNESS

A. DUCTWORK: LINE ALL SUPPLY AND RETURN AIR DUCTS WITHIN 20 FT. OF AC UNIT OR AS INDICATED ON OTHERWISE WITH 1 INCH DUCT LINER. B. SUPPLY AND RETURN DUCTS, NOT INTERNALLY LINED, ABOVE CEILINGS, COVER

3.2 INSTALLATION

- A. INSTALLATION SHALL BE CONTINUOUS THROUGH WALLS, FLOORS, PARTITIONS
- EXCEPT WHERE NOTED OTHERWISE. B. DUCT LINERS. APPLY WITH FIRE RESISTANT ADHESIVE TO FLAT SHEET WITH 100 PERCENT COVERAGE, FOR WIDTHS OVER 20 INCHES, ADDITIONALLY SECURE THE LINER WITH MECHANICAL FASTENERS AT 15 INCH CENTERS. COAT EXPOSED AND LEADING EDGES OF TRANSVERSE JOINTS WITH SUITABLE FIRE RESISTANT
- C. DUCT WRAP: COVER SUPPLY AND RETURN AIR DUCTS EXCEPT DUCTS INTERNALLY LINED. WRAP TIGHTLY WITH ALL CIRCUMFERENTIAL JOINTS BUTTED AND LONGITUDINAL JOINTS OVERLAPPED MINIMUM OF TWO INCHES. ADHERE INSULATION WITH FOUR INCH STRIPS OF INSULATING BENDING ADHESIVE AT EIGHT INCHES ON CENTER. ON DUCTS OVER 24 INCHES WIDE, ADDITIONALLY SECURE INSULATION WITH SUITABLE MECHANICAL FASTENERS AT 18 INCHES ON CENTER. CIRCUMFERENTIAL AND LONGITUDINAL JOINTS STAPLED WITH FLARE STAPLES ON SIX INCH CENTERS AND COVERED WITH

PLUMBING SPECIFICATIONS

PART 1 - GENERAL

- 1.01 DESCRIPTION
- A. THE WORK INCLUDES PROVIDING NEW MATERIALS, FITTINGS, AND ACCESSORIESNECESSARY FOR A COMPLETE FUNCTIONING PLUMBING SYSTEM. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND/OR ORDINANCES AND IS

AND FUNCTIONING PLUMBING SYSTEM ARE INCLUDED AS PART OF THIS SECTION.

A. ALL PLUMBING FIXTURES AND PLUMBING SPECIALTIES ARE AS INDICATED ON THESE

- SUBJECT TO INSPECTION. B. HOOK UP CHARGES, PERMITS AND ALL OTHER EXPENSES RELATED TO A COMPLETE
- COORDINATE ALL WORK WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS. AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.

1.02 FIXTURES AND PLUMBING SPECIALTIES

- DRAWINGS. NO SUBSTITUTIONS ALLOWED.
 - B. PROVIDE PLUMBING TRIM AND ACCESSORIES FROM THE FOLLOWING:
 - 1. TRIM (P-TRAPS, STOPS, SUPPLIES, ETC): BRASSCRAFT; MCGUIRE; JAMECO. 2. FIXTURE SEATS: BEMIS; BENEKE; CHURCH; CENTOCO; OLSONITE.
 - FIXTURE CARRIERS: J.R. SMITH; JOSAM; WADE.

EXTRA STOCK:

FURNISH SPECIAL WRENCHES AND OTHER DEVICES NECESSARY FOR SERVICING PLUMBING FIXTURES AND TRIM TO OWNER WITH RECEIPT. FURNISH ONE (1) DEVICE FOR EVERY FORTY (40) UNITS, BUT IN NO CASE LESS THAN TWO (2) DEVICES. PART 2 - PRODUCTS

2.01 DOMESTIC WATER SYSTEM

- A. A. PROVIDE COMPLETE SYSTEMS OF COLD AND HOT PIPING AND ACCESSORIES SO THAT EVERY PIECE OF WATER USING EQUIPMENT WILL BE FURNISHED WITH A WATER SUPPLY. EXTEND TO POINTS INDICATED ON THE DRAWINGS.

SERVICES INDICATED.

- B. PIPING AND FITTINGS: 1. PIPE AND FITTINGS SHALL BE AS LISTED HEREIN AND SHALL BE USED ON THE
- 2. TYPE "L" HARD DRAWN COPPER TUBING, ASTM B 88 WITH SOLDERED JOINTS AND WROUGHT COPPER SOCKET FITTINGS FOR ALL ABOVE GROUND WATER
- PIPING 3" IN SIZE AND UNDER. 3. TYPE "K" HARD DRAWN COPPER TUBING, ASTM B 88, WITH BRAZED JOINTS AND WROUGHT COPPER SOCKET FITTING FOR ALL BELOW GROUND COPPER

A. JOINTS:

- 1. SOLDER JOINTS FOR TYPE "L" COPPER TUBING SHALL BE MADE USING 95-5 TIN-ANTIMONY SOLDER WITH A COMPATIBLE FLUX.
- 2. BRAZED JOINTS SHALL USE A BCuP-5 BRAZING ALLOY WITH A COMPATIBLE
- 3. SOLDER FOR POTABLE WATERPIPING SHALL BE LEAD FREE.

A. DIELECTRIC ADAPTERS:

1. 1. DIELECTRIC ADAPTERS SHALL BE PROVIDED BETWEEN COPPER AND IRON PIPE CONNECTIONS AND BETWEEN FERROUS AND NON-FERROUS PIPING OR EQUIPMENT.

A. PROVIDE COMPLETE SYSTEM OF SANITARY, WASTE, VENT AND STORM PIPING TO

2.02 SANITARY, WASTE, VENT AND STORM SYSTEMS:

- POINTS INDICATED ON THE DRAWINGS.
- B. BASIC PIPE TUBE AND FITTINGS: a. ABOVEGROUND PIPING: NO-HUB CAST IRON SOIL PIPE, CISPI 301.
- PIPE CLASS: SERVICE WEIGHT (SW).
- FITTINGS: NO-HUB CAST IRON SOIL PIPE FITTINGS, WITH STAINLESS STEEL
 2.06 PLUMBING SYSTEM INSULATION CLAMPS AND NEOPRENE GASKETS.
- GASKETS: NEOPRENE GASKET JOINTS, ASTM C-564.
- COUPLINGS: "HUSKY" HEAVY DUTY STAINLESS STEEL CLAMPS FROM ANAHEIM FOUNDRY COMPANY. NO COUPLING SHALL HAVE LESS THAN 4 CLAMP RINGS.
- b. UNDERGROUND BUILDING DRAIN PIPING: CAST IRON HUB AND SPIGOT SOIL PIPE, ASTM A-74.
- PIPE CLASS: SERVICE WEIGHT (SW).

JOINTS, SDR-35 MINIMUM WALL THICKNESS.

- FITTINGS: CAST IRON, HUB AND SPIGOT SOIL PIPE FITTINGS.
- GASKETS: NEOPRENE COMPRESSION GASKET JOINTS, ASTM C-564. c. WHERE ALLOWED BY LOCAL OR STATE CODE INTERIOR PIPING MAY BE SCHEDULE 40 PVC WITH DRAINAGE PATTERN FITTINGS AND SOLVENT CEMENTED JOINTS AND EXTERIOR PIPING MAY BE PVC WITH GASKETED

C. C. JOINTS:

- a. JOINTS FOR CAST IRON PIPE BELOW THE FLOOR SHALL BE NEOPRENE COMPRESSION GASKETS OR BE MADE WITH A MIXTURE OF GRAPHITE AND OIL OAKUM AND MOLTEN LEAD.
- b. JOINTS FOR CAST IRON PIPE ABOVE THE FLOOR SHALL HAVE NEOPRENE GASKETS AND 24 GA. STAINLESS STEEL BANDS AND CLAMPS. TORQUE 125 IN. BS., 150 IN. LBS. FOR VANDAL PROOF.
- GRAPHITE AND OIL APPLIED TO MALE THREADS ONLY, AFTER CUTTING, BUT PRIOR TO THREADING, PIPE SHALL BE REAMED AND HAVE BURRS REMOVED. d. JOINTS FOR PVC INTERIOR PIPING SHALL BE SOLVENT CEMENTED. EXTERIOR

STD. WT STEEL PIPE (FT)

VAPOR SERVICE

14'

WATER SERVICE

WATER SERVICE

c. THREADED JOINTS FOR STEEL PIPE SHALL BE MADE WITH A MIXTURE OF

PVC PIPING SHALL BE GASKETED.

NOMINAL PIPE OR TUBE SIZ

UP TO 1/2"

1-1/4"

1-1/2"

2-1/2"

SHALL BE VANDAL PROOF.

a. FLOOR DRAINS SHALL BE SET FLUSH WITH THE FLOOR. ALL FLOOR DRAINS

- 2.03 NATURAL GAS PIPING
- METER TO ALL EQUIPMENT REQUIRING GAS AS INDICATED ON THE DRAWINGS. B. B. PIPING SHALL BE SCHEDULE 40 BLACK STEEL ASTM A-53 WITH X-HEAVY BLACK MALLEABLE IRON BANDED SCREWED OR WELD PATTERN FITTINGS AS APPLICABLE

A. A. PROVIDE A COMPLETE SYSTEM OF GAS PIPING FROM THE OUTLET OF THE GAS

- C. C. ALL PIPING AND FITTINGS LOCATED OUTDOORS AND ABOVE GRADE SHALL BE CLEANED FREE OF RUST AND PAINTED WITH TWO (2) COATS OF EPOXY ALUMINUM II
- D. D. APPLY TWO COATS OF ASPHALTUM BASE PAINT TO PIPING BURIED
- E. E. EACH PIECE OF EQUIPMENT SHALL BE PROVIDED WITH LUBRICATED PLUG VALVE 3.01 INSTALLATION WITH A HANDLE, UNION AND DRIP LEG AT THE UNIT CONNECTION.
- 2.04 PLUMBING SYSTEMS VALVES A. VALVES SHALL HAVE THE NAME OR TRADEMARK OF THE MANUFACTURER AND THE
- WORKING PRESSURE STAMPED OR CAST ON THE VALVE BODY. B. SHUTOFF VALVES, WITH UNIONS SHALL BE PROVIDED TO EACH PLUMBING FIXTURE, OR OTHER EQUIPMENT ITEM, TO FACILITATE ISOLATION FOR REPAIR OR

REPLACEMENT. VALVES SHALL BE EQUAL TO JENKINS #902-T BALL VALVE, CHROME-

FINISHED BRONZE. TEFLON SEATS AND PACKING, 400 LB W.O.G. SOLDER END. DOMESTIC WATER SYSTEM:

N0 9323 SERIES.

UNDERGROUND.

- 1. BALL VALVES 3" IN SIZE AND SMALLER SHALL HAVE BRONZE BODY AND BONNET, 2-PIECE CONSTRUCTION; CHROME-PLATED BRASS BALL WITH CONVENTIONAL FULL PORT: BLOWOUT PROOF: BRONZE OR BRASS STEM: TEFLON SEATS AND SEALS; THREADED OR SOLDERED END CONNECTIONS. VINYL-COVERED STEEL LEVER HANDLE OPERATOR. VALVES SHALL BE CRANE
- 2. GATE VALVES 3" IN SIZE AND SMALLER SHALL HAVE BRONZE BODY, NON-RISING STEM, SOLID WEDGE, AND SOLDER ENDS FOR 200 POUNDS W.O.G. VALVES
- SHALL BE CRANE NO. 1324. 3. CHECK VALVES 3" IN SIZE AND SMALLER SHALL BE HORIZONTAL SWING TYPE WITH BRONZE BODY, COMPOSITION DISC, AND SOLDER ENDS FOR 200 POUND
- 4. GLOBE VALVES SHALL HAVE BRONZE BODY, RISING STEM, COMPOSITION DISC AND SOLDER ENDS FOR 200 POUND W.O.G. VALVES SHALL BE CRANE NO. 1310.

W.O.G. VALVES SHALL BE CRANE NO. 1342.

D. VALVES FOR NATURAL GAS SYSTEMS

- 1. LOW PRESSURE GAS STOPS. 2" AND SMALLER: AGA-CERTIFIED DESIGN FOR 2 PSIG OR LESS NATURAL GAS WITH AGA STAMP; PLUG OR BALL TYPE, BRONZE BODY AND BRONZE PLUG OR CHROME-PLATED BRASS BALL. INCLUDE FLAT HEAD, SQUARE HEAD OR LEVEL HANDLE AND THREADED ENDS. VALVES SHALL BE CRANE N0 9203.
- 2. LUBRICATED PLUG VALVES 3" IN SIZE AND LARGER SHALL BE THE SEMI-STEEL TYPE WITH CAST IRON BODY, LUBRICATED CAST IRON PLUG, FLANGED ENDS,
- AND WRENCH OPERATED FOR 175# WOG. VALVES SHALL BE WALWORTH 1797F. 3. LUBRICATED PLUG VALVES (2-1/2" IN SIZE AND SMALLER) SHALL HAVE BRONZE BODY AND PLUG, THREADED ENDS, AND SQUARE HEAD FOR 125# WOG.
- VALVES SHALL BE CRANE NO. 250. 4. LUBRICATED PLUG VALVES SHALL BE LUBRICATED AT THE FACTORY AND SEALANT SHALL BE SUITABLE FOR NATURAL GAS. PROVIDE SIX (6) STICKS OR TUBES OF SEALANT UTILIZED AND TURN SUCH OVER TO THE OWNER S
- 5. PROVIDE ONE (1) VALVE WRENCH FOR EACH SIZE AND TYPE OF VALVE HEAD AND TURN SUCH WRENCHES OVER TO THE OWNER'S REPRESENTATIVE.

2.05 CONDENSATE DRAINAGE

REPRESENTATIVE.

- A. BASIC PIPE, TUBE AND FITTINGS:
- 1. PIPING AND FITTINGS INSIDE AND OUTSIDE SHALL BE COPPER DWV WITH SOLDER JOINTS.

A. ALL INSULATION SHALL BE APPLIED IN A NEAT AND WORKMANLIKE MANNER.

WITH MANUFACTURERS SPECIFICATIONS OR NOT PRESENTING A NEAT

REMOVE AND REPLACE ALL INSULATION NOT APPLIED IN STRICT ACCORDANCE

APPEARANCE. INSULATION SHALL BE CONTINUOUS THROUGH WALL AND CEILING OPENINGS AND SLEEVES. ALL INSULATION SHALL BE APPLIED BY CONTRACTOR SPECIALIZED IN INSULATION APPLICATION, IN ACCORDANCE WITH BEST TRADE PRACTICES AND AS GUIDED BY MANUFACTURERS PRINTED INSTALLATION B. WORK INCLUDED: PIPE COVERING FOR DOMESTIC HOT WATER, COLD WATER, INTERIOR ROOF DRAIN PIPING AND INTERIOR CONDENSATE PIPING. C. MATERIALS AND INSTALLATION: NO PIPE INSULATION SHALL BE APPLIED UNTIL

PIPING HAS BEEN PRESSURE TESTED AND APPROVED. ALL INSULATION SHALL BE

INSULATION ON INDOOR WORK SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD

RATINGS AS TESTED BY PROCEDURE NFPA 255 NOT EXCEEDING: FLAME SPREAD 25,

FUEL CONTRIBUTED 50, SMOKE DEVELOPED 50. ACCESSORIES SUCH AS ADHESIVES,

RECOMMENDATIONS, ONLY MATERIALS MANUFACTURED BY JOHNS MANVILLE FIBERGLASS PHILLIP CAREY, OR ARMSTRONG WILL BE ACCEPTABLE. ALL

APPLIED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S

- MASTICS, CEMENTS, TAPES AND CLOTH FOR FITTING, SHALL HAVE THE SAME COMPONENT RATINGS AS LISTED ABOVE. INSULATION SHALL HAVE AN AVERAGE THERMAL CONDUCTIVITY NOT TO EXCEED 0.25 BTU/INCH OF THICKNESS PER SQUARE FOOT PER 1 DEGREE F. AT A MEAN TEMPERATURE OF 75 DEGREES F D. DOMESTIC HOT WATER PIPING: ALL DOMESTIC HOT WATER PIPING SHALL BE INSULATED WITH 1" THICK FIBERGLASS PIPE INSULATED WITH FOIL-KRAFT
- LAPPED 12" MINIMUM. ALL FITTINGS, VALVES, FLANGES, ETC. SHALL BE COVERED WITH PVC FITTING COVER, TAPE AND TACKED FASTENED. E. COLD WATER LINES: ALL DOMESTIC COLD WATER PIPING SHALL BE INSULATED WITH 1" THICK FIBERGLASS INSULATED WITH FOIL KRAFT LAMINATED VAPOR BARRIER FASTENED WITH PRESSURE SENSITIVE TAPE AND LAPPED 12" MINIMUM.

LAMINATE VAPOR BARRIER FASTENED WITH PRESSURE SENSITIVE TAPE AND

- ALL FITTINGS, VALVES, STRAINERS, FLANGES, ETC. SHALL BE COVERED WITH PVC FITTING COVER, TAPED AND TACKED FASTENED. F. NO INSULATION SHALL BE INSTALLED ON ANY PIPING BEFORE BUILDING IS ADEQUATELY CLOSED IN. WHERE NECESSARY TO INSTALL ANY INSULATION BEFORE IT IS PROTECTED BY BUILDING ENCLOSURES, PERMISSION SHALL BE SECURED FIRST. WHERE PERMISSION IS GRANTED, THE COVERING MUST BE EFFECTIVELY PROTECTED BY ROOFING FELT, WIRED ON THE COVERING TO MAKE AN ABSOLUTE
- WATERPROOF PROTECTION FOR THE PIPE COVERING. G. ALL CONDENSATE LINES AND HORIZONTAL STORM LINES WITHIN BUILDING SHALL
- BE INSULATED THE SAME AS COLD WATER LINES ABOVE. H. WHERE SHOWN ON THE DRAWINGS OR REQUIRED BY GOVERNMENTAL AGENCIES HAVING JURISDICTION, AT LAVATORIES FOR HANDICAPPED PERSONS PROVIDE HANDI LAV-GUARD 102, COLOR WHITE, AS MANUFACTURED BY TRUEBRO, INC, ELLINGTON CT (800) 340-5969

MAX PIPE SPACES FOR HORIZONTAL PIPING

VAPOR SERVICE

13'

14'

CAST IRON SOIL

2.07 HANGERS AND SUPPORTS

- A. FURNISH AND INSTALL ALL PIERS, FOUNDATIONS, SUPPORTING MATERIAL, HANGERS, CLAMPS, INSERTS, ETC., NECESSARY FOR THE INSTALLATION OF ALL PIPES AND EQUIPMENT.
- B. SOIL, WASTE AND VENT STACKS SHALL BE WELL SUPPORTED AT THE BASE OF THE
- STACK. HORIZONTAL PIPING SHALL HAVE SUPPORTS AT 5' ON CENTER.

C. SUPPORTS AND HANGER SPACING FOR COPPER AND STEEL PIPING. SEE SCHEDULE

ON DRAWINGS FOR MAXIMUM SPACING OF PIPE HANGERS. D. SUPPORT VERTICAL STEEL PIPE AND COPPER TUBE AT EACH FLOOR.NIN

PART 3 - EXECUTION

- A. UNIONS SHALL BE PROVIDED AT ALL PIPING CONNECTIONS TO EQUIPMENT.
- B. CHANGES IN WATER PIPE SIZE SHALL BE MADE WITH REDUCING FITTINGS. NO BUSHINGS WILL BE ALLOWED.
- : HORIZONTAL SOIL. WASTE AND CONDENSATE PIPING 3" IN SIZE AND SMALLER SHAL BE SLOPED A MINIMUM OF 1/4" PER FOOT. HORIZONTAL SOIL, WASTE AND CONDENSATE PIPING 4" IN SIZE AND LARGER SHALL BE SLOPED AT A MINIMUM OF
- D. ON SOIL, WASTE AND VENT PIPING CHANGES IN PIPE SIZE SHALL BE MADE WITH REDUCING FITTINGS AND CHANGES IN PIPE DIRECTION SHALL BE MADE WITH FITTINGS. NO BUSHINGS SHALL BE ALLOWED.
- E. HUBS ON ALL DRAINAGE AND VENT PIPING SHALL HAVE THE OPEN HUB END FACING AGAINST THE DIRECTION OF THE FLOW.

3.02 TESTING

A. A. GENERAL:

1. 1. CONCEALED, UNDERGROUND AND INSULATED PIPING SHALL BE TESTED IN PLACE BEFORE CONCEALING, BURYING, OR COVERING. TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE ARCHITECT OF RECORD OR HIS DESIGNATE REPRESENTATIVE. EQUIPMENT, MATERIALS AND INSTRUMENTS REQUIRED FOR TESTS SHALL BE FURNISHED BY THE CONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNER.

B. PLUMBING SYSTEMS:

- 1. SOIL, WASTE AND VENT PIPING SHALL BE TESTED WITH WATER BEFORE INSTALLING FIXTURES. WATER TEST SHALL BE APPLIED TO THE SYSTEM EITHER IN ITS ENTIRETY OR IN SECTIONS. IF THE TEST IS APPLIED TO THE ENTIRE SYSTEM. ALL OPENINGS IN THE PIPING SHALL BE CLOSED EXCEPT THE HIGHEST OPENING, AND THE SYSTEM SHALL BE FILLED WITH WATER TO THE
- POINT OF OVERFLOW. 2. THE ENTIRE HOT AND COLD WATER PIPING SYSTEMS SHALL BE TESTED AT A HYDROSTATIC PRESSURE OF NOT LESS THAN 100 POUNDS PER SQUARE INCH GAUGE (BEFORE INSULATION IS APPLIED), AND PROVED TIGHT AT THIS PRESSURE FOR NOT LESS THAN 30 MINUTES IN ORDER TO PERMIT INSPECTION OF ALL JOINTS.
- WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT. REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE

3.03 DISINFECTION OF DOMESTIC WATER PIPING

OR ACID HYDROCHLORIC.

INCOMING WATER OR 1.0 MG/L.

3.04 NATURAL GAS PIPING

REQUIREMENTS.

ACHIEVED.

- A. PRIOR TO STARTING WORK. VERIFY SYSTEM IS COMPLETE. FLUSHED AND CLEAN. DISINFECTION PROCEDURE SHALL COMPLY WITH ALL LOCAL REQUIREMENTS.
- B. ENSURE PH OF WATER TO BE TREATED IS BETWEEN 7.4 AND 7.6 BY ADDING ALKALI
- C. INJECT DISINFECTANT, FREE CHLORINE IN LIQUID, POWDER, TABLET OR GAS FORM, THROUGHOUT SYSTEM TO OBTAIN 50 TO 80 MG/L RESIDUAL.
- D. BLEED WATER FROM OUTLETS TO ENSURE DISTRIBUTION AND TEST FOR DISINFECTANT RESIDUAL AT MINIMUM 15 PERCENT OF OUTLETS.

E. MAINTAIN DISINFECTANT IN SYSTEM FOR 24 HOURS.

F. IF FINAL DISINFECTANT RESIDUAL TESTS LESS THAN 25 MG/L, REPEAT TREATMENT.

G. FLUSH DISINFECTANT FROM SYSTEM UNTIL RESIDUAL EQUAL TO THAT OF

- H. TAKE SAMPLES NO SOONER THAN 24 HOURS AFTER FLUSHING, FROM 10 PERCENT OF OUTLETS AND FROM WATER ENTRY, AND ANALYZE IN ACCORDANCE WITH AWWA
- A. INSPECT TEST AND PURGE GAS SYSTEMS ACCORDING TO NFPA 54, PART 4 "GAS PIPING INSPECTION, TESTING AND PURGING" AND LOCAL GAS UTILITY
- B. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST SYSTEM UNTIL SATISFACTORY RESULTS ARE OBTAINED. C. REPORT TEST RESULTS PROMPTLY AND IN WRITING TO THE ARCHITECT AND THE

MIN. ROD DIAMETER FOR SINGLE RIGID ROD HANGERS

COPPER & PLASTIC PIPE

3/8"

3/8"

3/8"

3/8"

3/8"

1/2"

1/2"

1/2"

STEEL & CAST IRON SOIL PIPE

3/8"

3/8"

1/2"

1/2"

5/8"

D. VERIFY CAPACITIES AND PRESSURE RATINGS OF GAS METERS, REGULATORS, VALVES AND SPECIALTIES.

AUTHORITY HAVING JURISDICTION.

E. VERIFY CORRECT SETTING FOR REGULATORS. F. VERIFY THAT SPECIFIED PIPING TESTS ARE COMPLETE.

> 07.11.25 ISSUE FOR PERMIT no date remarks EVISIONS

ARCH COA #201500877 ENG COA #200502690

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NUMBER

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ARCHITECTURI **ENGINEERING**

PERMITTING



LEE'S SUMMIT, MO 64063

901 EAST LANGSFORD RE

MECHANICAL & PLUMBING SPECIFICATIONS

ENGINEERII www.gleasonengr.com Design Firm # 24726

HECKED: SLB DRAWN:

EXISTING RTU TO BE PROVIDED TO TENANT IN OPERATIONAL CONDITION. NOTIFY TENANT OF ANY DISCREPANCIES.

PROVIDE IDENTIFICATION ON ALL ROOFTOP EQUIPMENT. PROVIDE STENCIL WITH A MINIMUM OF 6" HIGH BLACK SPRAY-PAINTED LETTERS INDICATING RTU NUMBER ON EQUIPMENT ON ROOF. TAGS SHOWN ON PLANS ARE FOR REFERENCE ONLY AND MAY NOT MATCH ACTUAL FIELD LABELING. CONTRACTOR SHALL VERIFY ALL TAGS MATCH.

PROVIDE 36"x36" MINIMUM FIELD FABRICATED HOOD OVER FORK LIFT BATTERY CHARGING AREA. ROUTE DUCT UP TO ROOFTOP EXHAUST FAN. FAN TO RUN CONTINUOUSLY. FAN TO BE SIZED FOR 1CFM PER SQ FOOT OF CHARGING AREA (200SF).

NEW CONDENSING UNIT FOR IT ROOM LOCATED ON ROOF INSTALLED ON FACTORY ROOF RAILS (12" MINIMUM). CONDENSING UNIT SHALL PROVIDE POWER

TO INDOOR UNIT. ROUTE POWER AND REFRIGERANT PIPING THROUGH PIPE PORTAL.

NEW HEATED AIR CURTAIN. PROVIDE HOA SWITCH AND MOUNT AT 48" AFF.

EXISTING DUCTWORK AND DISTRIBUTION TO REMAIN UN ALTERED. ALL DUCTWORK TO BE CLEANED, INSPECTED AND REPAIR FOR A COMPLETE SYSTEM.

PROVIDE 6" E/A DUCT UP THRU ROOF FROM EXHAUST FAN. TERMINATE WITH A GOOSENECK AT ROOF.

REPLACE EXISTING DIFFUSER WITH TYPE S-2. VERIFY AND MATCH EXISTING NECK

SIZE IN FIELD.

REPLACE EXISTING DIFFUSER WITH TYPE R-1 RETURN GRILLE. VERIFY AND MATCH EXISTING NECK SIZE IN FIELD.

MECHANICAL GENERAL NOTES

- 1. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE HVAC SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF ALL STATE BUILDING CODES, THE NFPA 90A, 101 AND ALL LOCAL AUTHORITIES AND THESE CONTRACT DOCUMENTS. THESE ITEMS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. THE WORD "PROVIDE" SHALL MEAN FURNISH AND INSTALL. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
- 2. PRIOR TO PURCHASING ANY MATERIALS OR STARTING ANY WORK, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DUCTWORK SIZES AND LOCATIONS, EQUIPMENT, ETC. SHOWN ON THE DRAWINGS OR AFFECTING THIS WORK AND SHALL REPORT ANY DEVIATIONS TO THE ARCHITECT.
- CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT OR SUBMITTING SHOP DRAWINGS, AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN.
- ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH EQUIPMENT CHARACTERISTICS, MANUFACTURER'S RECOMMENDATIONS AND ELECTRICAL DRAWINGS.
- ALL REQUIRED CONTROL WIRING NOT SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF THE MECHANICAL WORK.
- 6. UNLESS NOTED OTHERWISE, STARTERS, SMOKE DETECTORS, TRANSFORMERS, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- 7. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- 8. ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER CERTIFICATE OF OCCUPANCY.
- 9. EXHAUST DUCTWORK SHALL BE SHEET METAL AND SHALL NOT BE INSULATED UNLESS NOTED OTHERWISE.

ALL DUCTWORK SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT

LONG. FLEXIBLE DUCTWORK SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE, AND SHALL BE ROUTED AND SUPPORTED WITHOUT FORMING CRIMPS OR OTHER AIR FLOW

- REST ON CEILING TILES OR CEILING STRUCTURE. DUCT SUPPORTS AND ATTACHMENT TO STRUCTURE SHALL BE AS PER SMACNA STANDARDS.

 11. FLEXIBLE DUCTWORK SHALL BE SIZED TO MATCH DEVICE NECK, PROVIDE ROUND GALVANIZED STEEL DUCT RUNOUTS TO MAINTAIN MAXIMUM FLEXIBLE DUCT OF 5'-0"
- RESTRICTIONS. PROVIDE SQUARE TO ROUND ADAPTERS OR BOOTS TO CONNECT TO AIR DEVICE NECK WHEN REQUIRED.

 12. ROUND AND FLEXIBLE DUCTWORK SHALL BE CONNECTED TO MAIN DUCTS WITH SPIN-IN

FITTINGS WITH AIR EXTRACTORS AND BALANCING DAMPERS.

- 13. PORTIONS OF DUCTWORK VISIBLE THROUGH AIR DISTRIBUTION DEVICES IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
- 14. DUCTWORK DIMENSIONS SHOWN ON THE DRAWINGS ARE INSIDE CLEAR DIMENSIONS.
 CONTRACTOR SHALL ADJUST DUCT DIMENSIONS WHERE DUCT LINER IS USED TO
 MAINTAIN INSIDE CLEAR DIMENSIONS SHOWN ON DRAWINGS.
- 15. AFTER CONSTRUCTION, THE ENTIRE HVAC SYSTEM SHALL BE TESTED, ADJUSTED, AND BALANCED TO DELIVER THE AIR QUANTITIES SHOWN ON THE DRAWINGS. SUBMIT CERTIFIED TEST AND BALANCE REPORT TO ARCHITECT FOR APPROVAL.
- 16. ALL WORK SHALL BE COORDINATED AND PERFORMED WITH PRIOR APPROVAL FROM THE OWNER TO SUIT HIS OPERATING CONDITIONS.
- 17. ANY WALL, FLOOR, OR CEILING SURFACE THAT IS DISTURBED DURING THE COURSE OF THE HVAC WORK SHALL BE REPAIRED TO MATCH NEW AND/OR EXISTING.
- 18. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT DUCTWORK, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.
- 19. MOUNT THERMOSTATS IN SALES AT 84" A.F.F. PROVIDE CLEAR LOCKING COVER ASSEMBLIES FOR ALL THERMOSTATS. MOUNT ON BACKSIDE OF COLUMN.
- 20. LOCATIONS OF GRILLES, REGISTERS, & DIFFUSERS SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT LOCATIONS WITH LIGHTS, CEILING GRID, SPRINKLER HEADS ETC.
- PROVIDE ACCESS PANELS IN NON-ACCESSIBLE CEILINGS AND IN WALL STRUCTURE TO ALLOW ADEQUATE ROOM FOR MAINTENANCE OF EQUIPMENT AND BALANCING OF SYSTEM
- 22. ALL DUCTWORK SHALL BE GALVANIZED AND SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA LOW-PRESSURE DUCT CONSTRUCTION STANDARDS. DUCT HANGERS AND SUPPORTS SHALL BE IN ACCORDANCE WITH SMACNA RECOMMENDATIONS.
- 3. ALL RTU FILTERS SHALL BE REPLACED AT THE END OF CONSTRUCTION.
- 4. CONTRACTOR TO COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.
- 5. ALL CEILING DIFFUSERS TO BE 4-WAY THROW UNLESS SHOWN OTHERWISE ON
- COORDINATE THE LOCATION OF ALL PENETRATIONS OF THE STRUCTURE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 27. EXISTING SMOKE DETECTORS IN EXISTING RTU'S TO REMAIN. OR PROVIDE AND INSTALL
- SMOKE DETECTORS IN ACCORDANCE WITH STATE/LOCAL REQUIREMENTS.
- 28. MECHANICAL SUBCONTRACTOR TO REFER TO EMS DRAWINGS FOR RESPONSIBILITIES WITH REGARD TO EMS CONTROLS, COORDINATION AND COMMISSIONING.
- 9. MECHANICAL CONTRACTOR SHALL REVIEW THE EMS REQUIREMENTS AS DESCRIBED OF SHEETS EM1-EM4 AND SHALL COORDINATE THESE REQUIREMENTS WITH THE MECHANICAL WORK.

NEW THERMOSTATS/SYSTEM CONTROLLERS FOR EXISTING ROOFTOP UNITS, FANS NOT BEING REMOVED SHALL BE PROVIDED BY OWNER'S EMS CONTRACTOR. PROVIDE LOCKING COVERS AND MOUNT AT 84" A.F.F. COORDINATE INSTALLATION WITH EMS CONTRACTOR. REFER TO EMDRAWINGS FOR ADDITIONAL INFORMATION.

CONTRACTOR SHALL CLEAN ALL DIFFUSER / REGISTERS / GRILLES AND DROP BOXES. PROVIDE NEW RTU FILTERS AT END OF CONSTRUCTION.

ALL EXISTING HVAC EQUIPMENT AND PLUMBING FIXTURES TO REMAIN SHALL BE CLEAN, INSPECTED, AND REPAIRED AS NEEDED TO ENSURE PROPER FUNCTIONALITY BY GC.

SPRINKLER SYSTEM SHALL BE COMPLETELY INSPECTED AND TESTED TO INCLUDE OBSTRUCTION VISUAL AND FLUSHING. A CURRENT WATER FLOW TEST (2" DRAIN TEST) SHALL BE CONDUCTED TO VERIFY CURRENT WATER SUPPLY INFORMATION. SYSTEM DESIGN SHALL BE VALIDATED FOR THE HAZARD PROPOSED INCLUDING ANY MODIFICATIONS OR UPGRADES TO THE SYSTEM NECESSARY FOR STORAGE UP TO 16'-0" IN THE PALLET RACKING AREAS.

GENERAL CONTRACTOR IS RESPONSIBLE FOR MAKING ANY AND ALL MODIFICATIONS, REPAIRS, ADJUSTMENTS, CLEANING, AND TESTING TO THE ENTIRE FIRE SPRINKLER SYSTEM. FIRE SPRINKLER SYSTEM SHALL COMPLY WITH STATE, LOCAL, AND ALL APPLICABLE CODES.

07.11.25 ISSUE FOR PERMIT NO DATE REMARKS REVISIONS



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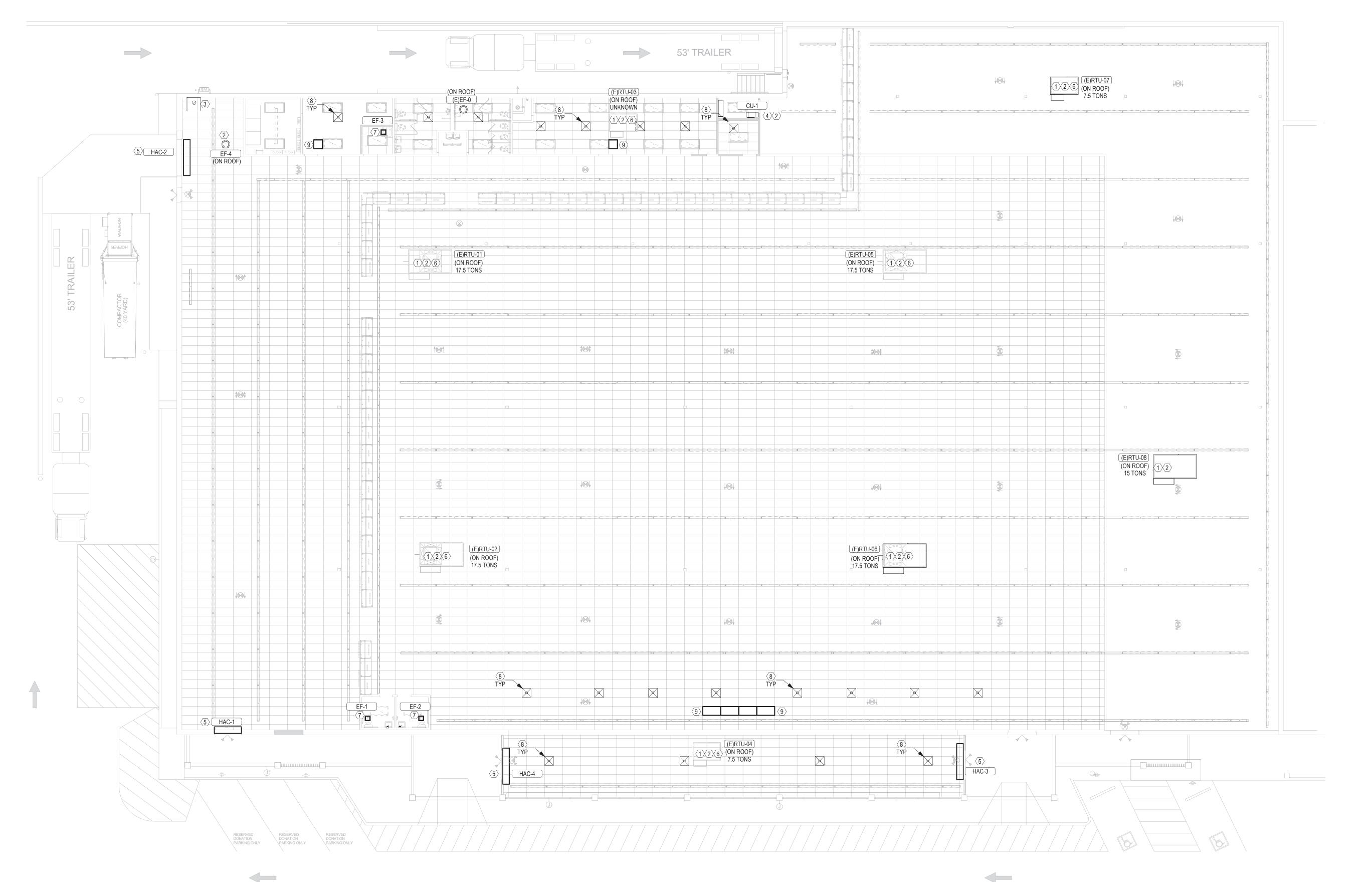
PROJECT NO:

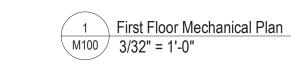
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MECHANICAL FLOOR
PLAN

HECKED: SLB DRAWN: MF





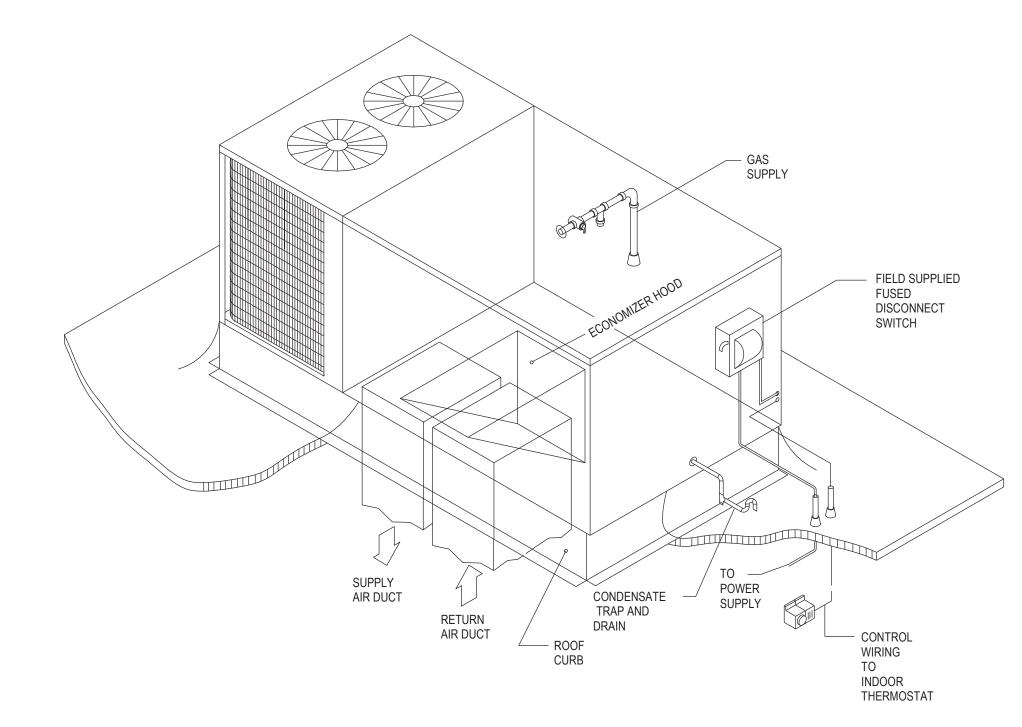
DESIGNATION	(E) RTU-1	(E) RTU-2	(E) RTU-3	(E) RTU-4	(E) RTU-5	(E) RTU-6	(E) RTU-7	(E) RTU-8
AREA SREVED								
MANUFACTURER	TRANE	TRANE						
MODEL NO.	YSD210	YSD210	UNKNOWN	YSC092	YSD210	YSD210	YSC092	YSD180
NOMINAL TONS	17.5	17.5	UNKNOWN	7.5	17.5	17.5	7.5	15
SUPPLY AIRFLOW (CFM)	7000	7000	UNKNOWN	3000	7000	7000	3000	6000
O/A AIRFLOW (CFM)	1400	1400	100	700	1400	1400	600	1200
EXT. STATIC PRESSURE. (IN. W.G.)								
UNIT MIN. CIRC. AMPACITY (MCA)								
MAX. FUSE SIZE (AMPS)								
VOLTAGE/PHASE	G	O	O	Ō	O	G	Ŋ	G
GROSS TOTAL COOLING (BTU/H)	EXISTING	EXISTING						
GROSS SENSIBLE COOLING (BTU/H)	ST	ST						
ENTERING AIRTEMP. (DB/WB)	$\overline{\mathbf{x}}$	Ξ						
JNIT EER/IEER	ш	Ш	ш	ш	ш	ш	ш	ш
NATURAL GAS HEATING INPUT/OUTPUT (MBH)								
STEADY - STATE EFFICIENCY (%)								
UNIT WEIGHT (LBS.)								
REMARKS	1	1	1	1	1	1	1	1

		IIV	IC 201	8 VEN	ITILAT	ION	SCHEI	DULE					
	System Name	RTU-1,2,5,6,7,8											
	Ev (System Efficiency)	0.9					Az	Zone Floor	Area	Voz	Zone Out	door Air Rate	
	Ps (Max Population)	429					Pz	Zone Popu	lation	Zp	Primary (Outdoor Air Fra	ctio
	D (Occupant Diversity)	0.8					Rp	People Out	door Rate	Vpz	Primary A	Air Flow	
	Rp * Pz	3245					Ra	Area Outdo	oor Rate	Ev	System E	fficiency	
	Ra * Az	3961.44					Vbz	Breathing 2	Zone Airflow				
	Vou (Uncorrected OA)	6557.44					Ez	Zone Air Di	stribution Effect	iveness			
	Vot (Corrected OA)	7287											
oom Number	Room Name	Occupancy Category	Az Area (s.f.)	People Density per 1,000s.f.	Pz People	Rp	Ra	Viz	Ze (air distribution effectiveness)	Voz	Zp	Vpz Supply Air flow (cfm)	E
	SALES FLOOR	Sales	27816	15	418	7.5	0.12	6472.92	0.8	8091.15	0.26	31000	0
	PRODUCTION/SHIPPING	Shipping and receiving	5196 33012	2	11 429	10	0.12	733.52	1.8	407.51	0.07	6000 37000	
Notes:													

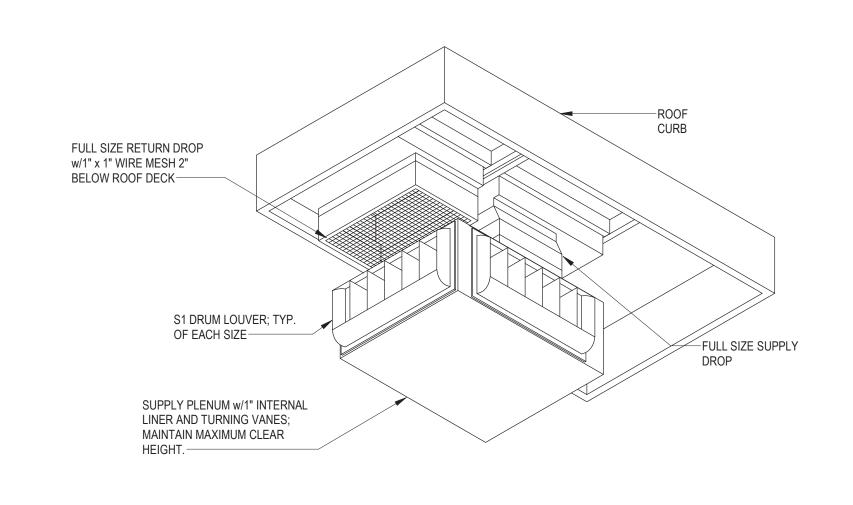
1. EXISTING - VERIFY MANUFACTURER, MODEL AND PERFOMANCE IN FIELD

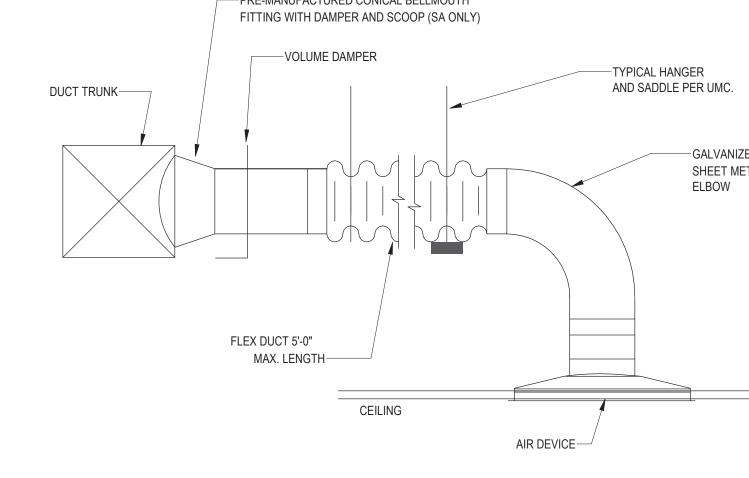
	System Name	RTU-3											
	Ev (System Efficiency)	0.9					Az	Zone Floor	r Area	Voz	Zone Out	door Air Rate	
	Ps (Max Population)	7					Pz	Zone Popu	ılation	Zp	Primary (Outdoor Air Fra	action
	D (Occupant Diversity)	1					Rp	People Ou	tdoor Rate	Vpz	Primary A	Air Flow	
	Rp * Pz	35					Ra	Area Outd	oor Rate	Ev	System E		
	Ra * Az	52.08					Vbz	Breathing	Zone Airflow		,	,	
	Vou (Uncorrected OA)	87.08					Ez	_	istribution Effect	iveness			
	Vot (Corrected OA)	97						201107111112	istribution Enect				
Room Number	Room Name	Occupancy Category	Az Area (s.f.)	People Density per 1,000s.f.	Pz People	Rp	Ra	Viz	Ze (air distribution effectiveness)	Voz	Zp	Vpz Supply Air flow (cfm)	E۱
	ELECTRICAL ROOM	Storage	152	0	0	0	0	0	0.8	0.00	0.00	150	1
	OFFICE	Office spaces Toilet rooms and	203	5	2	5	0.06	22.18	0.8	27.73	0.09	300	1
	JANITORS CLOSET	Toiletthooms and	40	_		_	_		.8.			0	
	TOILET ROOM	bathrooms Toilet rooms — public	140						0.8			175	
	TOILET ROOM BREAKROOM	Office spaces	140 560	- 5	3		0.06	48.6	0.8	60.75	0.09	175 700	1
	IT ROOM	Office spaces	40	5	1	5	0.06	7.4	0.8	9.25		0	
	OFFICE	Office spaces	65	5	1	5	0.06	8.9	0.8	11.13	0.11	100	1
			1340		7							1600	

	System Name	RTU-4											
	Ev (System Efficiency)	0.9					Az	Zone Floo	or Area	Voz	Zone Out	door Air Rate	
	Ps (Max Population)	41					Pz	Zone Pop	ulation	Zp	Primary (Outdoor Air Fra	ction
	D (Occupant Diversity)	1					Rp	People Ou	utdoor Rate	Vpz	Primary A	Air Flow	
	Rp * Pz	307.5					Ra	Area Outo	door Rate	Ev	System E	fficiency	
	Ra * Az	321					Vbz	Breathing	Zone Airflow				
	Vou (Uncorrected OA)	628.5					Ez		Distribution Effect	iveness			
	Vot (Corrected OA)	699											
Room Number	Room Name	Occupancy Category	Az Area (s.f.)	People Density per 1,000s.f.	Pz People	Rp	Ra	Viz	Ze (air distribution effectiveness)	Voz	Zp	Vpz Supply Air flow (cfm)	Ev
	VESTIBULE/SALES FLOOR	Sales	2675	15	41	7.5	0.12	628.5	0.8	785.63	0.26	3000	0.8
	TOILET ROOM	Toilet rooms — public	49	_		_	_					0	
	TOILET ROOM	Toilet rooms — public	49	_		_	_					0	
Natar			2773		41							3000	
Notes:		are from architectural draw											



ROOFTOP PACKAGED HVAC UNIT DETAIL





TYPICAL DIFFUSER CONNECTION

DRUM LOUVER DETAIL

			DIFFUSER, RE	GISTER AND GRILLE SCHEDULE	
ID	MANUFACTURER	MODEL	DAMPER	DESCRIPTION	NOTES
S-1	TITUS	DL	OBD	STEEL. SIDEWALL.	1,2,3,4,6,7
S-2	TITUS	TMSA	OBD	STEEL. CEILING.	1,2,3,4,5,6
S-3	TITUS	300 RL	OBD	DOUBLE DEFLECTION, STEEL. SUPPLY GRILLE	1,2,3,4,5,6
R-1	TITUS	50F	NONE	ALUMINUM, 24X24 RETURN GRILLE.	1,2,3,4,5,6
TR-1	TITUS	350	OBD	STEEL. SIDEWALL.	1,2,3,4,5,6
2. BAKEI 3. DIFFU 4. MOUN 5. NECK 6. DIFFU	D ENAMEL FINISH, COLOR SERS SHALL BE 4-WAY BI ITING FRAME TYPE SHALL DIAMETER SHALL BE AS	R TO BE WHITE. LOW UNLESS OTH BE COORDINATE SCHEDULED IN TA GRILLES SHALL BE	MANUFACTURED BY TITUS	135 TO 245 CFM - 8" DIAMET 250 TO 340 CFM - 10" DIAME 345 TO 470 CFM - 12" DIAME 475 TO 700 CFM - 14" DIAME	ER ER TER TER TER

	DU	CTLESS	SPLIT	SYSTEMS	SCHEDULI					
MODEL	NOMINAL	SUPPLY	MOTOR	TOTAL COOLING ,	DEEDIGEDANT TVD		WEIGHT		ELE	CTRICAL
MODEL	TONS	AIR (CFM)	FLA	CAPACITY (MBH)	REFRIGERANT TYPI	E EER/SEER	(LBS)	MCA	MOCP	VOLT.
PUY-A24NHA7	2	-	-	24	R410A	12.2/21.4	150	19	25	208
PKA-A24KA7	-	700	0.36	-	R410A	-	50	1	-	-
							•			

 PROVIDE WITH DISCONNECT SWITCH. 2. PROVIDE WITH PROGRAMMABLE THERMOSTAT

MARK MANUFACTURER

MITSUBISHI

MITSUBISHI

PROVIDE WITH CONDENSATE PUMP 4. REFRIGERANT LINES SHALL BE SIZED PER MANUFACTURER RECOMMENDATIONS.

				All	R CURTA	AIN						
ID	MANUFACTURER	MODEL NO.	CFM	ELECTRIC HEAT	MOTORS	HP	VOLTAGE	PHASE	AMPS	LENGTH	WEIGHT	NOTES
HAC-1	POWERED AIRE	CED 2-72E	2159/1936	20 KW	2	1/2	208	3	60	72"	172 lbs	1,2
HAC-2	POWERED AIRE	CED 2-96E	2159/1936	20 KW	2	1/2	208	3	60	96"	172 lbs	1,2
HAC-3	POWERED AIRE	CED 2-96E	2159/1936	20 KW	2	1/2	208	3	60	96"	172 lbs	1,2
HAC-4	POWERED AIRE	CED 2-96E	2159/1936	20 KW	2	1/2	208	3	60	96"	172 lbs	1,2

1. PROVIDE HOA SWITCH AND MOUNT AT 48" AFF. 2. FACTORY INSTALLED DISCONNECT SWITCH.

4. PROVIDE WITH ROOF CURB.

			NHAUS	T FAN SCH	TEDULE			
				AREA	ELI	ECTRICAL	OPERATING	NOTES
ID	MANUFACTURER	MODEL NO.	CFM	SERVED	H.P.	VOLT/PH/HZ	WT (LB)	
(E) EF-0	EXISTING			RESTROOMS				
EF-1	LOREN COOK	GC-148	75	RESTROOM	42 WATTS	120/1/60	15	1,2,3
EF-2	LOREN COOK	GC-148	75	RESTROOM	42 WATTS	120/1/60	15	1,2,3
EF-3	LOREN COOK	GC-148	75	JANITOR	42 WATTS	120/1/60	15	1,2,3
EF-4	LOREN COOK	101 ACED OR60	200	FORKLIFT	0.625	120/1/60	50	1,2,4

1. PROVIDE FACTORY INSTALLED DISCONNECT SWITCH AND BACKDRAFT DAMPER. INTERLOCK WITH LIGHT SWITCH. 2. PROVIDE WITH BIRD SCREEN. 3. SUPPORT FAN FROM STRUCTURE AND PROVIDE WITH RUBBER ISOLATORS.

ARCH COA #2015008774 ENG COA #2005026904

> **ARCHITECTURE ENGINEERING** PERMITTING

1 EAST 22ND STREET, SUITE 400 LOMBARD, IL 60148 630.932.233



MANUFACTURER'S RECOMMENDATIONS. PROVIDED AND INSTALLED BY

PIPE SUPPORT ON ROOF

3) FOR PILLOW BLOCK PIPE STAND INFORMATION, CONTACT MIRO IND.

NOTE: 1) PIPE SUPPORTS SHALL BE SPACED AS SPECIFIED IN THE

MEMBRANE BETWEEN ROOF AND SUPPORT PER ROOFING

THE PLUMBING CONTRACTOR.

OF UTAH (800) 768-6978.

SPECIFICATIONS.
2) DO NOT ATTACH SUPPORTS TO ROOF. PROVIDE PROTECTIVE

PILLOW BLOCK MODEL 3-R SHOWN. MODEL 1.5 MAY BE USED FOR SMALLER PIPING.

REFER TO SCHEDULE FOR PIPE

— NYLON ROLLER WITH TEFLON BASE

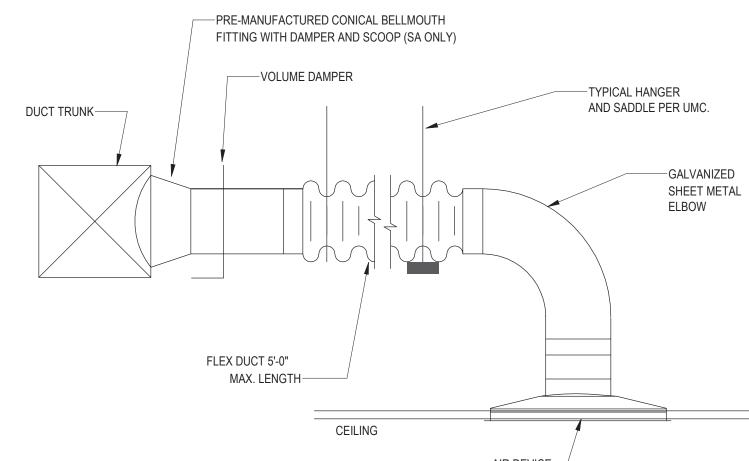
STACKING LOCK PINS. STACK

SUPPORTS AS REQUIRED TO MAINTAIN THE MINIMUM CLEARANCE BETWEEN BOTTOM

OF PIPE AND THE ROOF.

-- MOUNTING HOLES FOR PLUMBER'S TAPE AS

REQUIRED BY CODE.



AL	SUPPLY			DEEDICEDANT TVD	E EER/SEER	WEIGHT		ELE	CTRICAL		NOTES
5	AIR (CFM)	FLA	CAPACITY			(LBS)	MCA	MOCP	VOLT.	PH.	NOTES
	-	-	24	R410A	12.2/21.4	150	19	25	208	1	1,4
	700	0.36	-	R410A	-	50	1	-	-	-	1,2,3,4

INDOOR UNIT IS POWERED BY OUTDOOR UNIT

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901 EAST LANGSFORD RD. LEE'S SUMMIT, MO

64063

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MECHANICAL **SCHEDULES AND DETAILS** CHECKED: SLB DRAWN: MF **B&B LARGE**

STAGING

RACK

P100 First Floor Plumbing Plan
3/16" = 1'-0"

CHECK

PLACE ON SIDE CLOSEST TO RETAIL

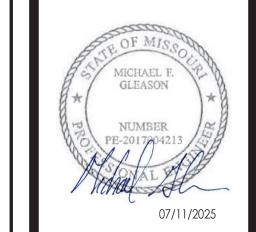
TAGGING

30AT RACK

ARCH COA #201500877 ENG COA #200502690

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PROVIDE SHUT-OFF VALVES AT ALL POINTS OF CONNECTION. ALL WORK WITHIN THIS SCOPE OF WORK SHALL COMPLY WITH ALL CITY, STATE AND NATIONAL

PROVIDE CONNECTION TO EXISTING WATER SERVICE. PROVIDE WATER METER AND RPZ

VALVE OR BFP. COORDINATE METER REQUIREMENTS WITH LOCAL UITILITY. CONNECT

TO EXISTING SANITARY STUB IN AS INDICATED, PROVIDE CLEAN OUTS, VERIFY EXACT

PROVIDE GAS CONNECTION TO EXISTING METER. FIELD VERIFY EXACT LOCATION.

PROVIDE CONNECTION TO ROOF MOUNTED EQUIPMENT AS INDICATED ON DRAWING.

PLUMBING CODES. ALL WORK SHALL CONFORM TO BUILDING STANDARDS.

PIPING:

LOCATIONS IN FIELD.

WATER HEATER COLD WATER FEED. ALL PUMP CONTROLS SHALL MEET OR

JANITOR'S SINK. PROVIDE COMPLETE WITH DRAINS, RELIEFS, EXPANSION TANK

AND RECIRCULATION PUMP. TIE INTO EXISTING HW, CW, AND HWR LINES IN THIS

EXTEND AND CONNECT NEW 1/2" HW/CW & HWR, 3" W AND 2" VENT TO EXISTING

EXTEND AND RECONNECT EXISTING HW/CW AND WASTE LINES FROM DEMO'D

EXTEND NEW 3/4" CW LINE FROM EXISTING MAINS NEAR EXISTING RESTROOM TO

EXTEND AND CONNECT NEW 4" WASTE FROM NEW RESTOOMS TO EXISTING MAIN

ROUTE NEW 3" VENT FROM BATHROOMS UP THROUGH 4" VENT THRU ROOF.

NEW INSTANTANEOUS WATER HEATER MOUNTED BELOW SINK.

NEAR EXISTING BATHROOM GROUP. VERIFY IN FIELD ROUTING, DEPTH AND SAW

NEW ELECTRIC WATER HEATER TO BE INSTALLED ON PLATFORM ABOVE

EXCEED ALL IECC ENERGY CODE REQUIREMENTS.

PLUMBING MAINS IN THIS AREA FOR NEW SINK.

SINK IN THIS ARE FOR NEW JANITOR'S SINK.

THE (2) NEW RESTROOMS.

CUTTING REQUIREMENTS.

WATER PIPING ABOVE GRADE SHALL BE TYPE "L" COPPER TUBING WITH WROUGHT COPPER AND BRONZE SOLDER JOINTS. SOLDER SHALL BE SILVER 95-5.

SANITARY SEWER PIPING ABOVE GRADE SHALL BE CAST IRON, ASTM A74 OR CLSP 30, SERVICE

WEIGHT. FITTINGS SHALL BE CAST IRON. JOINTS SHALL BE HUB AND SPIGOT COMPRESSION TYPE WITH NEOPRENE GASKETS OR STAINLESS STEEL CLAMP AND SHIELD ASSEMBLIES WITH NEOPRENE GASKET. PVC AS ALLOWED BY LOCAL CODE.

VENT PIPING SHALL BE GALVANIZED STEEL ASTM A53 SCHEDULE 40, OR PVC AS ALLOWED BY LOCAL CODE.

FLANGES UNIONS COUPLINGS:

FOR PIPE UNDER 2" USE 150 PSIG MALLEABLE IRON UNIONS FOR THREADED PIPE. BRONZE UNIONS FOR COPPER PIPE. FOR PIPES OVER 2" USE 150 PSIG STEEL FLANGES FOR FERROUS PIPE, BRONZE FLANGES FOR COPPER PIPE. DIELECTRIC CONNECTORS SHALL BE MADE WITH GALVANIZED STEEL THREAD END AND COPPER SOLDERED END WITH WATER IMPERVIOUS INSULATION BARRIER. PIPE AND COUPLING SHALL BE MALLEABLE IRON WITH CLAMPS TO EMIENGAGE AND LOCK, DESIGNED TO PERMIT SOME ANGULAR DEFLECTION, CONTRACTION AND EXPANSION.

VALVES:

GATE VALVES UP TO 2"- SHALL BE BRONZE BODY, NON-RISING STEM AND HAND WHEEL WITH EDGE AND DISK THREADED OR SOLDERED ENDS. BOLL VALVES SHALL BE BRONZE BODY, STAINLESS STEEL BALL, TEFLON SEATS, LEVER HANDLE, SOLDER OR THREADED ENDS. CRANE, POWELL AND STOCKHAM ARE APPROVED MANUFACTURERS. PROVIDE VALVES AS REQUIRED TO ISOLATE ALL FIXTURES AND EQUIPMENT.

SLOPE ALL PIPING FOR APPROPRIATE DRAINAGE AT LOW POINTS. ALLOW FOR EXPANSION AND

PIPE INSTALLATION:

CONTRACTOR WITH STRESSING PIPE. PROVIDE NON-CONDUCTING DIELECTRIC FITTINGS WHEN JOINING DISSIMILAR METALS. PROVIDE ACCESS TO ALL VALVES AND CLEAN OUTS. SUPPORT ALL PIPING PROPERTLY. EXPAND CLEAN OUT TO FINISH FLOOR OR WALL SURFACE. ROUTE PIPING IN AN ORDERLY MANNER TO CONSERVE SPACE. ALL PIPING SHALL BE PROPERTLY AND INDEPENDENTLT SUPPORTED FROM STRUCTURE USING CLEVIS TYPE PIPE HANGERS.

PROVIDE 1" FIBERGLASS INSULATION WITH VAPOR BARRIER ON ALL CW, HW, AND DRAINAGE PIPING. INSULATION SHALL INCLUDE ALL VALVES AND FITTINGS.

SAWCUTTING & CORING:

INSULATION:

SAWCUT AND/OR CORE EXISTING FLOOR AS REQUIRED FOR INSTALLATION OF NEW SANITARY PIPING AND CLEAN OUTS. FLOOR TO BE RESTORED TO ORIGINAL CONDITION UPON COMPLETION OF WORK. PROVIDE SLEEVES WHENEVER PIPING PASSES THROUGH WALLS AND FLOORS.

FLOOR DRAINS:

COORDINATE LOCATION AND SIZE OF FLOOR DRAINS AND CLEAN OUTS WITH ARCHITECTURAL DRAWINGS AND GENERAL CONTRACTOR. DRAINS AND CLEAN OUTS BY J.R. SMITH, WADE, JOSAM, OR ZURN ONLY.

CLEANING AND TESTING:

CONTRACTOR SHALL FLUSH AND CLEAN OUT ALL DOMESTIC WATER PIPING IN ACCORDANCE WITH AWWA STANDARDS AND ALL LOCAL CODES. SANITARY AND VENT PIPING SHALL BE TESTED PRIOR TO BEING PLACED IN SERVICES.

AIR TEST:

FILL PIPE SYSTEM WITH AIR AND MAINTAIN 5PSI FOR 15 MINUTES WITHOUT ADDITIONAL AIR.

WATER TEST:

MAINTAIN WATER PRESSURE OF AT LEAST TEN FEET OF HEAD AT ALL POINTS OF SYSTEM FOR AT LEAST 15 MINUTES.

EXISTING FIRE, DOMESTIC WATER AND GAS SERVICES AND MAINS TO REMAIN. ALL GAS PIPING TO RTUS AND UNIT HEATERS TO REMAIN.

CAP ALL DOMESTIC WATER PIPING THAT IS SERVING A PLUMBING FIXTURE THAT IS BEING DEMOLISHED.

ALL EXISTING PLUMBING FIXTURES TO REMAIN SHALL BE INSPECTED, CLEANED, AND REPAIRED AS NEEDED TO ENSURE PROPER FUNCTIONALITY BY THE CONTRACTOR.

SPRINKLER SYSTEM SHALL BE COMPLETELY INSPECTED AND TESTED TO INCLUDE OBSTRUCTION VISUAL AND FLUSHING. A CURRENT WATER FLOW TEST (2" DRAIN TEST) SHALL BE CONDUCTED TO VERIFY CURRENT WATER SUPPLY INFORMATION. SYSTEM DESIGN SHALL BE VALIDATED FOR THE HAZARD PROPOSED.

GENERAL CONTRACTOR IS RESPONSIBLE FOR MAKING ANY AND ALL MODIFICATIONS, REPAIRS, ADJUSTMENTS, CLEANING, AND TESTING TO THE ENTIRE FIRE SPRINKLER SYSTEM. FIRE SPRINKLER SYSTEM SHALL COMPLY WITH STATE, LOCAL, AND ALL APPLICABLE CODES.

ENTIRE EXISTING SEWER SYSTEM SHALL BE INSPECTED WITH A CAMERA DURING THE FIRST WEEK OF CONSTRUCTION. THE GENERAL CONTRACTOR SHALL PROVIDE A CD OF THE CAMERA FOOTAGE TO THE SAVERS CM, AND SHALL NOTE THE DATE OF THE INSPECTION IN THE PROJECT WEEKLY REPORT. FOR STANDALONE SITES, THE INSPECTION SHALL CONTINUE UNTIL THE FIRST OFF-SITE CONNECTION POINT OR PUBLIC LINE. FOR INLINE SITES. THE INSPECTION SHALL CONTINUE UNTIL THE FIRST CONNECTION POINT OUTSIDE OF THE BUILDING. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR UNCLOGGING ANY AND ALL BLOCKAGE IN THE EXISTING SEWER SYSTEM PIPING TO ENSURE PROPER DRAINAGE, AND SHALL NOTIFY THE SAVERS CM OF ANY CONCERNS WITH THE EXISTING PIPING, I.E. PIPE DEGRADATION, LACK OF ADEQUATE FALL,

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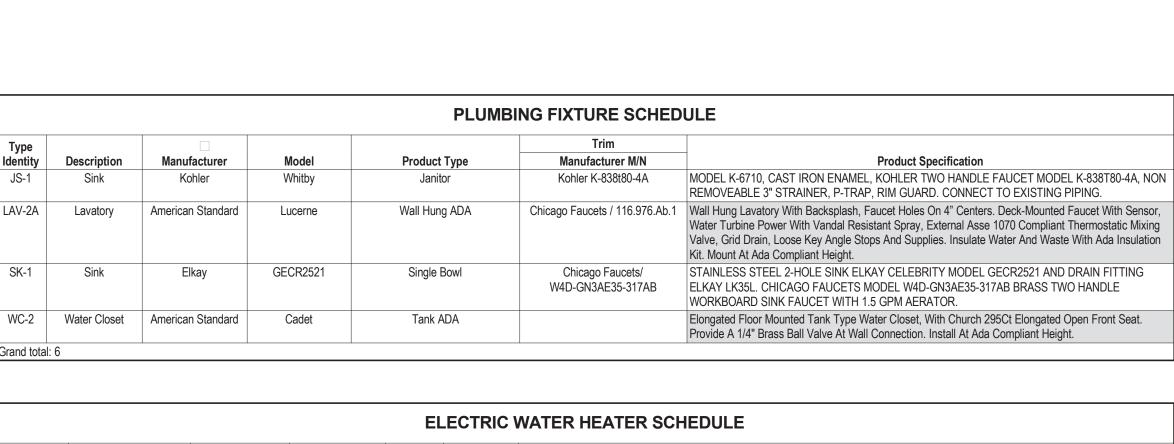


901 EAST LANGSFORD RD LEE'S SUMMIT, MO 64063

PLUMBING FLOOR PLAN

HECKED: SLB DRAWN: MF

GLEASON 630-946-6679 (O) www.gleasonengr.com Design Firm # 24726



ELECTRIC WATER HEATER SCHEDULE						
ID	MANUFACTURER	MODEL NO.	TYPE	MCA	OCP Amps	REMARKS
WH-1	AO Smith	DEL-10	Storage	18 A	20 A	10 GALLON ELECTRIC, 3.0KW, 208V/1PH, TANK TYPE WATER HEATER. PROVIDE EXTERNAL ASSE 1017 COMPLIANT MIXING VALVE, EXPANSION TANK
WH-2	Eemax	MB005240T	Tankless	17 A	20 A	ELECTRIC, 3.6KW, 208V/1PH, INSTANTANEOUS WATER HEATER. PROVIDE AN INTEGRAL ASSE 1070 RATED MIXING VALVE IN THE UNIT SET TO 105DEG F.
WH-3	Eemax	MB005240T	Tankless	17 A	20 A	ELECTRIC, 3.6KW, 208V/1PH, INSTANTANEOUS WATER HEATER. PROVIDE AN INTEGRAL ASSE 1070 RATED MIXING VALVE IN THE UNIT SET TO 105DEG F.