



TENANT IMPROVEMENT SUBMITTAL FOR:

CRUNCH FITNESS

3634 BELL ROAD
NASHVILLE, TN 37214

PROJECT DESCRIPTION

THIS IS A CRUNCH FITNESS (A NATIONAL FITNESS CHAIN) TENANT IMPROVEMENT WITH LOCKER ROOMS, BATHROOMS, SHOWERS, TANNING, HYDROMASSAGE EQUIPMENT, INCLUDING ASSOCIATED HVAC DISTRIBUTION, ELECTRICAL DISTRIBUTION, AND PLUMBING.

CRUNCH FITNESS IS LEASING +23,738 SF IN AN EXISTING BUILDING. THEIR NEW SPACE IS CURRENTLY VACANT.

CHANGES/SCOPE TO EXTERIOR: INFILL OF EXISTING ROLL UP DOORS, NEW PAINT, AND SIGNAGE.

NO SITE CHANGES ARE PROPOSED UNDER THIS PERMIT.

CODE REFERENCE

ALL WORK IS TO CONFORM TO THE REQUIREMENTS OF THE CURRENT INTERNATIONAL BUILDING CODE AND ANY CURRENT STATE AND/OR CITY AMENDMENTS. THESE CODES ARE TO TAKE PRECEDENCE OVER THE DRAWINGS AND SPECIFICATIONS.

BUILDING CODES:
2018 INTERNATIONAL BUILDING CODE WITH LOCAL AMENDMENTS AND REFERENCED STANDARDS
2018 INTERNATIONAL EXISTING BUILDING CODE WITH LOCAL AMENDMENTS
2018 INTERNATIONAL ENERGY CONSERVATION CODE WITH LOCAL AMENDMENTS
2017 NATIONAL ELECTRIC CODE WITH LOCAL AMENDMENTS
2018 INTERNATIONAL PLUMBING CODE WITH LOCAL AMENDMENTS
2018 INTERNATIONAL MECHANICAL CODE WITH LOCAL AMENDMENTS
2018 INTERNATIONAL FUEL GAS CODE WITH LOCAL AMENDMENTS
2018 NFPA 1 FIRE CODE WITH LOCAL AMENDMENTS

NOTES

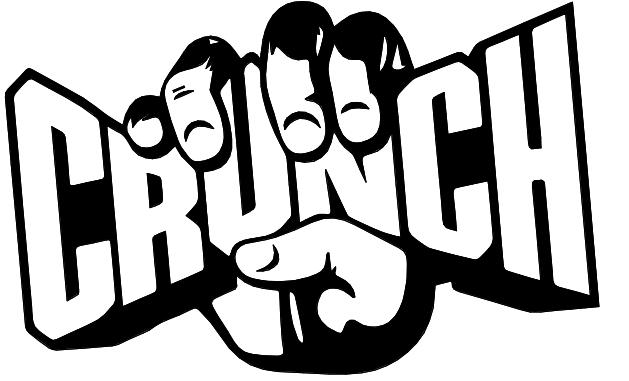
1. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS, AND ANY CHANGES MADE DURING CONSTRUCTION THAT ARE NOT IN COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL BE RESENTED FOR APPROVAL AS AN AMENDED SET OF CONSTRUCTION DOCUMENTS.
2. ALL CONSTRUCTION OR WORK SHALL BE SUBJECT TO INSPECTION BY THE CITY AND COUNTY BUILDING OFFICES. THE CONTRACTOR, REPRESENTATIVE, AND PERSONNEL OF CONSTRUCTION OR WORK SHALL REMAIN ACCESSIBLE AND EXPOSED FOR INSPECTION PURPOSES UNTIL APPROVED. APPROVAL AS A RESULT OF AN INSPECTION SHALL NOT BE CONSTRUED TO BE AN APPROVAL OF A VIOLATION OF THE PROVISIONS OF THIS CODE OR OF OTHER ORDINANCES OF THE JURISDICTION. THE CONTRACTOR GIVING TO AUTHORITY TO VIOLATE OR CANCEL THE PROVISIONS OF THIS CODE OR OF OTHER ORDINANCES OF THE JURISDICTION SHALL NOT BE VALID. IT SHALL BE THE DUTY OF THE OWNER AND THEIR CONTRACTOR TO CAUSE ALL DEFECTS TO BE REPAIRED AND FOR THE CONTRACTOR TO INSPECT PURPOSES. NEITHER THE BUILDING OFFICE NOR THE JURISDICTION SHALL BE LIABLE FOR EXPENSES ENTAILED IN THE REMOVAL OF REPLACEMENT OF ANY MATERIAL REQUIRED TO ALLOW INSPECTION.
3. ALL DIMENSIONS ARE TO FACE OF FRAMING, U.O.N. AND/OR SHOWN TO GRIDLINE.
4. ALL TRADES ARE RESPONSIBLE FOR ALL PAGES OF PROVIDED DOCUMENTS.
5. VERIFY ROUGH OPENING DIMENSIONS FOR STOREFRONT AND DOOR OPENINGS IN FIELD, PRIOR TO ORDERING OR FABRICATION.
6. SEPARATE PERMITS REQUIRED FOR EXTERIOR SIGNAGE, FIRE ALARM SYSTEM AND FIRE SPRINKLERS.
7. APPROVED SUITE NUMBERS A MINIMUM OF 3' IN HEIGHT SHALL BE PLACED ON ALL EXTERIOR DOORS OF EACH TENANT SPACE FOR EMERGENCY RESPONSE PURPOSES.
8. BEFORE THE CERTIFICATE OF OCCUPANCY IS ISSUED FOR THE FIRST COMPLETED T.I., ALL CONSTRUCTION SHALL MEET THE CODE APPROVED CONSTRUCTION TYPE.
9. CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO START OF CONSTRUCTION, AND SHALL IMMEDIATELY NOTIFY ARCHITECT OF ANY DISCREPANCIES.
10. CONTRACTOR IS TO PROTECT ALL EXISTING ADJACENT FINISHES DURING DEMOLITION AND CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY THEM OR THEIR SUBCONTRACTORS.
11. THE CONTRACTOR IS RESPONSIBLE TO KEEP THE EXISTING AREAS CLEAN, THIS INCLUDES ADJACENT TENANT SPACES AS WELL AS THE EXTERIOR OF THE BUILDING.
12. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ANY AND ALL REQUIRED SUPPORTS, BRACING AND ENGINEERING AS REQUIRED TO COMPLETE CONSTRUCTION WITHOUT DAMAGING OR DISTURBING EXISTING CONDITIONS THAT ARE TO REMAIN.
13. CONTRACTOR IS RESPONSIBLE TO MAINTAIN A SAFE PATH OF TRAVEL WITHIN THE SPACE FOR EGRESS PURPOSES. THIS SHALL BE MAINTAINED AT ALL TIMES.
14. ITEMS WITHIN THE PLAN SET IS INTENDED TO GENERALLY DESCRIBE THE WORK THAT IS BEING CONDUCTED BY THE CONTRACTOR AND THEIR SUBCONTRACTORS. THE WORK INCLUDED BUT IS NOT LIMITED TO THE ITEMS LISTED HEREIN. THE CONTRACTOR SHALL CONSIDER ALL CONSTRUCTION, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL REQUIREMENTS AND THE MOST CURRENT CRUNCH FITNESS CONSTRUCTION MANUAL V.10.0-07031910 STANDARDS.
15. CONTRACTOR SHALL PROVIDE TEMPORARY BARRICADES AS WELL AS OTHER PROTECTION TO KEEP THEMSELVES, THEIR SUBCONTRACTORS, THE GENERAL PUBLIC AND ANY OWNERS REPRESENTATIVES SAFE FROM INJURY DUE TO THE NEW WORK BEING PERFORMED.
16. RETURN ELEMENTS AND SURFACES TO REMAIN TO EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO REPAIR ANY DAMAGES THAT WAS DAMAGED DURING CONSTRUCTION BY THEM OR THEIR SUBCONTRACTORS WORK.
17. CONTRACTOR IS RESPONSIBLE TO REATTACH ANY EQUIPMENT THAT IS TO REMAIN OR THAT REQUIRED REWORKING TO ACCOMMODATE NEW INSTALLATIONS.
18. SAW CUTS ACROSS THE PORTION OF FLOORS THAT ARE TO BE POLISHED CONCRETE SHALL BE KEPT TO A MINIMUM. COORDINATE IN THE FIELD WITH EXISTING CONDITIONS.
19. CONTRACTOR SHALL NOT CREATE ANY OPENINGS IN THE ROOF OR EXTERIOR WALLS, NOR MAKE ANY STRUCTURAL ALTERATIONS, ADDITIONS OR IMPROVEMENTS TO THE PREMISES WITHOUT THE PRIOR WRITTEN CONSENT OF LANDLORD.
20. THERE SHALL BE NO PENETRATIONS OF THE ROOF WITHOUT THE PRIOR WRITTEN APPROVAL OF LANDLORD. ROOF PENETRATIONS ARE TO BE ENGINEERED AND INSTALLED UNDER THE DIRECT SUPERVISION OF THE LANDLORD OR LANDLORD'S PROPERTY MANAGER.
21. ANY CONTRACTOR AND/OR SUBCONTRACTOR THAT MAY PERFORM WORK ON THE ROOF AND/OR FIRE/LIFE SAFETY SYSTEM SHALL BE SUBJECT TO LANDLORD'S PRIOR WRITTEN APPROVAL.
22. SEE CRUNCH MANUAL FOR ADDITIONAL NOTES, REQUIRED BY FRANCHISE.

PARKING INFORMATION

ALL PARKING, INCLUDING ACCESSIBLE PARKING, IS EXISTING TO REMAIN

DEFERRED APPROVALS

1. FIRE SPRINKLER MODIFICATIONS
2. FIRE ALARM MODIFICATIONS
3. EXTERIOR SIGNAGE



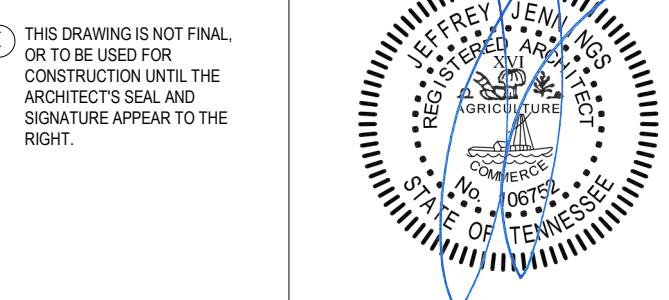
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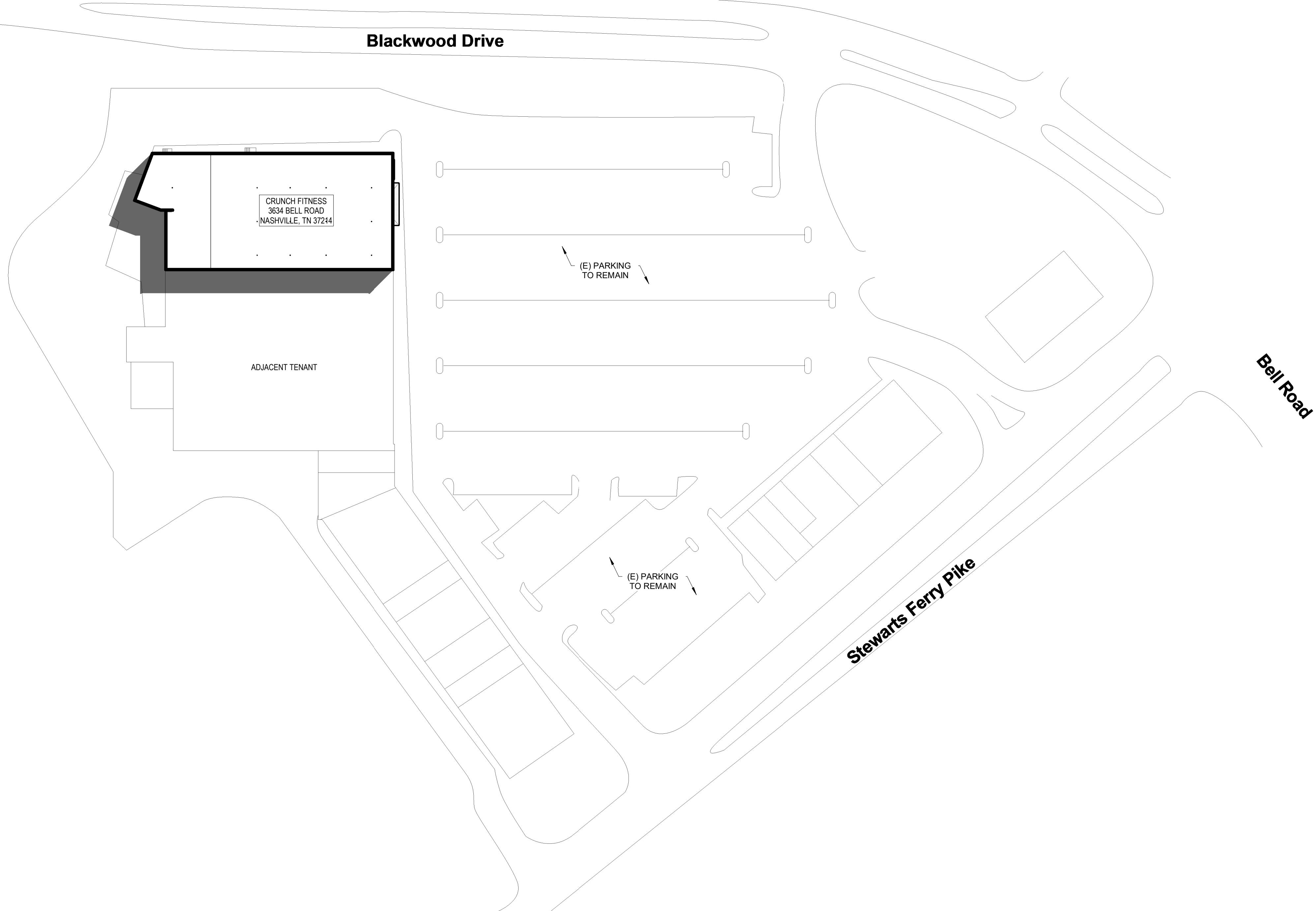


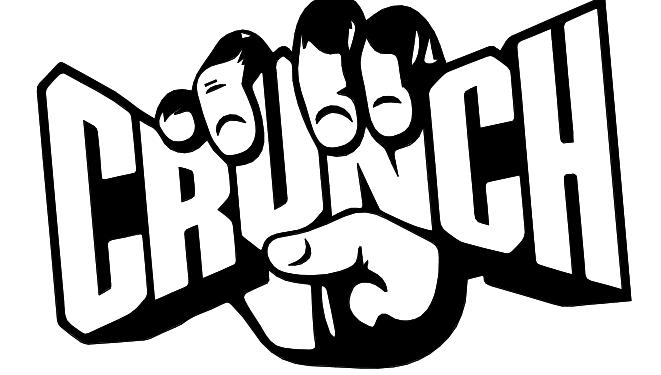
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CONSTRUCTION DRAWINGS
APN: 09700013000

SHEET TITLE		
COVER SHEET		
NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:	AS NOTED	
DATE:	10/27/2023	
PROJECT NO:	22-45	

A000.0





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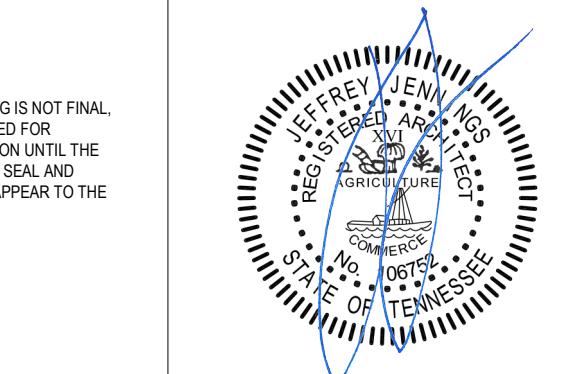
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PROJECT TEAM

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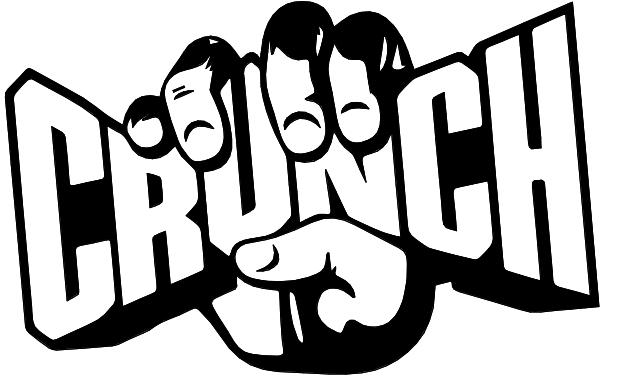
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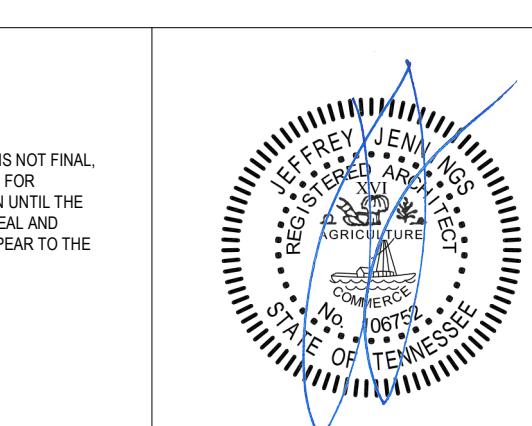
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FRANCHISER	Nearby Engineers
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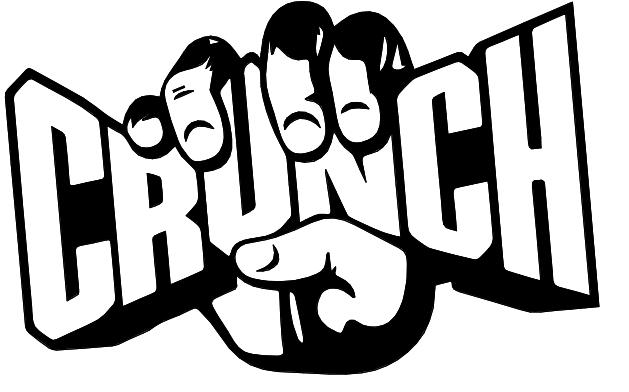
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Crunch Fitness Responsibility Schedule		CF	Crunch Franchising	FO	Franchise Owner										
		CMV	Crunch Mandatory Vendor	GC	General Contractor										
		DV	Owner Selected Vendor												
Club Area					Construction Material										
Exterior	Lobby	Cardio	Weights	HITZone / PT	Group Fitness	Hot Yoga	Ride	Relax & Recover	Locker Rooms	Kids	Item	Description	AE Sheet Heading	Furnished By	Installed By
X	X	X	X	X	X	X	X	X	X	X	Doors	All interior doors incl. overhead garage door	Doors	GC	GC
X	X	X	X	X	X	X	X	X	X	X	Cardio Curb	Cardio Curb	Electronic Equipment	CMV	GC
X	X	X	X	X	X	X	X	X	X	X	Gym Equipment	All club gym equipment / weights / machines etc.	Interior Finishes	CF	CMV
X	X	X	X	X	X	X	X	X	X	X	Flooring	Tile Flooring	Interior Finishes	CMV	GC
X	X	X	X	X	X	X	X	X	X	X	Flooring	Rubber, turf	Interior Finishes	CMV	GC
X	X	X	X	X	X	X	X	X	X	X	Flooring	LVT	Interior Finishes	CMV	GC
X	X	X	X	X	X	X	X	X	X	X	Furniture	Bar Stools	Interior Finishes	CMV	GC
X	X	X	X	X	X	X	X	X	X	X	Furniture	Modular Seating	Interior Finishes	CMV	GC
X	X	X	X	X	X	X	X	X	X	X	Gym Accessories	All interior graphics (+ entry door)	Interior Finishes	CMV	OV
X	X	X	X	X	X	X	X	X	X	X	Gym Accessories	Walk off Mat	Interior Finishes	CMV	GC
X	X	X	X	X	X	X	X	X	X	X	Gym Accessories	LED Clock	Interior Finishes	CMV	GC
X	X	X	X	X	X	X	X	X	X	X	Kids Room Accessories	Gates and Railings	Interior Finishes	CMV	GC
X	X	X	X	X	X	X	X	X	X	X	Kids Room Accessories	Play	Interior Finishes	OV	OV
X	X	X	X	X	X	X	X	X	X	X	Kids Room Accessories	Tables and Chairs	Interior Finishes	OV	OV
X	X	X	X	X	X	X	X	X	X	X	Office / Lobby / Club Accessories	Paper Towel Dispensers	Interior Finishes	OV	OV
X	X	X	X	X	X	X	X	X	X	X	Office / Lobby / Club Accessories	Desk (office and front desk)	Interior Finishes	CMV	OV
X	X	X	X	X	X	X	X	X	X	X	Office / Lobby / Club Accessories	File Cabinets	Interior Finishes	CMV	OV
X	X	X	X	X	X	X	X	X	X	X	Office / Lobby / Club Accessories	Office Chair	Interior Finishes	CMV	OV
X	X	X	X	X	X	X	X	X	X	X	Office / Lobby / Club Accessories	Philosophy Wall Panels	Interior Finishes	CMV	GC
X	X	X	X	X	X	X	X	X	X	X	Office / Lobby / Club Accessories	Retail Display	Interior Finishes	CMV	GC
X	X	X	X	X	X	X	X	X	X	X	Office / Lobby / Club Accessories	Free standing Trash Cans	Interior Finishes	OV	FO
X	X	X	X	X	X	X	X	X	X	X	Office / Lobby / Club Accessories	All Accessories, Phones, Shredders, Printers, Trash Cans	Interior Finishes	OV	OV
X	X	X	X	X	X	X	X	X	X	X	Office / Lobby / Club Accessories	Ant Fatigue Mat	Interior Finishes	OV	OV
X	X	X	X	X	X	X	X	X	X	X	Signage - Exterior	Pylon / Monument Sign and Store Front Sign	Interior Finishes	OV	OV
X	X	X	X	X	X	X	X	X	X	X	Utilities	Gas / Water / Power / Sewar	Interior Finishes	OV	FO
X	X	X	X	X	X	X	X	X	X	X	Wall Finish	Luxury Vinyl Tile - LVT	Interior Finishes	CMV	GC
X	X	X	X	X	X	X	X	X	X	X	Wall Protection	Acrylic Wall Protection - AVP	Interior Finishes	CMV	GC
X	X	X	X	X	X	X	X	X	X	X	Lighting	All interior lighting	Lighting Fixtures	GC	GC
X	X	X	X	X	X	X	X	X	X	X	Locker Room Accessories	Benches / Toilet Partitions	Locker Room Equipment	CMV	GC
X	X	X	X	X	X	X	X	X	X	X	Locker Room Accessories	Lockers	Locker Room Equipment	CMV	GC
X	X	X	X	X	X	X	X	X	X	X	Locker Room Accessories	Vanity Counters	Locker Room Equipment	CMV	GC
X	X	X	X	X	X	X	X	X	X	X	Locker Room Accessories	Toilet Accessories including hand dryers	Locker Room Equipment	GC	GC
X	X	X	X	X	X	X	X	X	X	X	Mirror	Back Lit Vanity Mirrors / Wall Mirrors / Mirror Strip at Media Wall	Locker Room Equipment	GC	GC
X	X	X	X	X	X	X	X	X	X	X	Sauna	Sauna	Locker Room Equipment	GC	GC
X	X	X	X	X	X	X	X	X	X	X	Relax and Recover	Zebra Matts	Relax and Recovery Equipment	CMV	GC
X	X	X	X	X	X	X	X	X	X	X	Relax and Recover	Hydromassage Chair	Relax and Recovery Equipment	OV	OV
X	X	X	X	X	X	X	X	X	X	X	Relax and Recover	Scanning Unit	Relax and Recovery Equipment	OV	OV
X	X	X	X	X	X	X	X	X	X	X	Relax and Recover	Tanning Beds / Booth	Relax and Recovery Equipment	OV	OV
X	X	X	X	X	X	X	X	X	X	X	Fans	Big Ass Fans	Specialty Equipment	CMV	GC
X	X	X	X	X	X	X	X	X	X	X	Gym Equipment	Stroops Spines	Specialty Equipment	CMV	GC
X	X	X	X	X	X	X	X	X	X	X	Health and Safety	Debrilliator	Specialty Equipment	OV	GC
X	X	X	X	X	X	X	X	X	X	X	HVAC	RTU / HVAC Units / DUCT SMOKE DETECTORS	Specialty Equipment	GC	GC
X	X	X	X	X	X	X	X	X	X	X	Vending Machines	Vending machines	Specialty Equipment	OV	OV
X	X	X	X	X	X	X	X	X	X	X	Washer / Dryer	Washer / Dryer	Specialty Equipment	OV	GC
X	X	X	X	X	X	X	X	X	X	X	Audio / Sound System	Music / Speaker / AV System	Technology Equipment	OV	OV
X	X	X	X	X	X	X	X	X	X	X	Information Technology	Wall LED Monitors	Technology Equipment	OV	GC
X	X	X	X	X	X	X	X	X	X	X	Information Technology	TV Truss / Pole	Technology Equipment	GC	GC

CRUNCH FITNESS
3634 BELL ROAD
NASHVILLE, TN 37214
APN: 09700013000

SHEET TITLE		
RESPONSIBILITY AND VENDOR MATRICES (FOR REFERENCE)		
NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:		
DATE:	10/27/2023	
PROJECT NO:	22-45	
A001.3		



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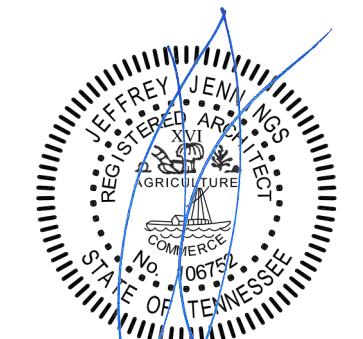
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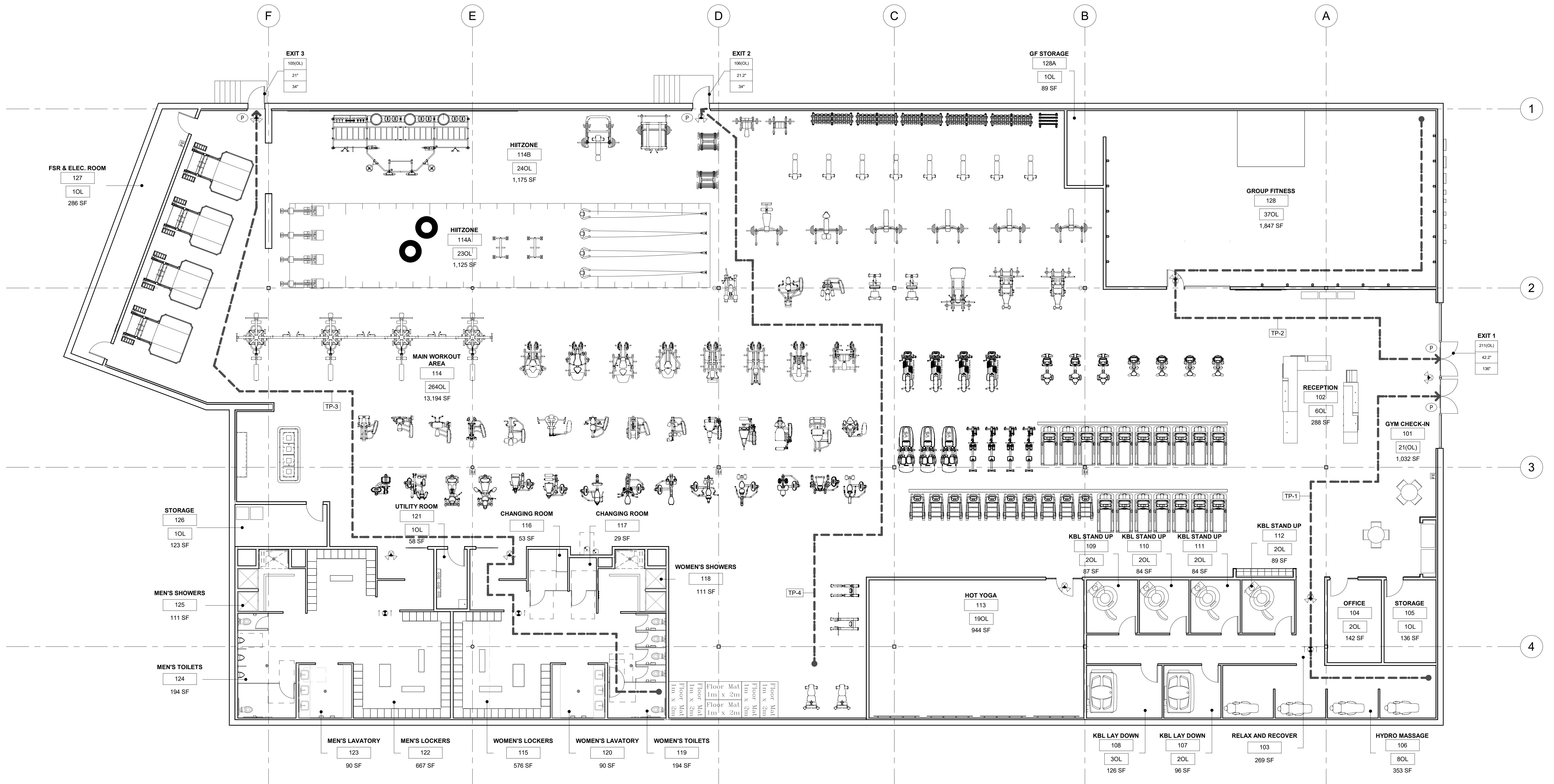
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CONSTRUCTION DRAWINGS
APN: 09700013000

SHEET TITLE

LIFE SAFETY PLAN



OL CALCS

NUMBER	NAME	AREA	USE	FACTOR	OL	NUMBER	NAME	AREA	USE	FACTOR	OL
101	GYM CHECK-IN	1,032 SF	GYM	50 SF	21	119	WOMEN'S TOILETS	194 SF	RESTROOM	0 SF	0
102	RECEPTION	288 SF	GYM	50 SF	6	120	WOMEN'S LAVATORY	90 SF	RESTROOM	0 SF	0
103	RELAX AND RECOVER	269 SF	GYM	50 SF	0	121	UTILTY ROOM	58 SF	STORAGE	300 SF	1
104	OFFICE	142 SF	GYM	50 SF	0	122	MEN'S LOCKERS	90 SF	RESTROOM	0 SF	0
105	STORAGE	136 SF	STORAGE	300 SF	1	123	MEN'S LAVATORY	90 SF	RESTROOM	0 SF	0
106	HYDRO MASSAGE	353 SF	GYM	50 SF	8	124	MENS TOILETS	194 SF	RESTROOM	0 SF	0
107	KBL LAY DOWN	96 SF	GYM	50 SF	2	125	MENS SHOWERS	111 SF	RESTROOM	0 SF	0
108	KBL LAY DOWN	126 SF	GYM	50 SF	3	126	STORAGE	123 SF	STORAGE	300 SF	1
109	KBL STAND UP	87 SF	GYM	50 SF	2	127	FSR & ELEC. ROOM	286 SF	STORAGE	300 SF	1
110	KBL STAND UP	84 SF	GYM	50 SF	2	128	GROUP FITNESS	1,847 SF	GYM	50 SF	37
111	KBL STAND UP	84 SF	GYM	50 SF	2	128A	GF STORAGE	89 SF	STORAGE	300 SF	1
112	KBL STAND UP	89 SF	GYM	50 SF	2						
113	HOT YOGA	94 SF	GYM	50 SF	1						
114	MAIN WORKOUT AREA	13,194 SF	GYM	50 SF	264						
114A	HITZONE	1,125 SF	GYM	50 SF	23						
114B	HITZONE	1,175 SF	GYM	50 SF	24						
115	WOMEN'S LOCKERS	576 SF	RESTROOM	0 SF	0						
116	CHANGING ROOM	53 SF	RESTROOM	0 SF	0						
117	CHANGING ROOM	29 SF	RESTROOM	0 SF	0						
118	WOMEN'S SHOWERS	111 SF	RESTROOM	0 SF	0						
		422									

SHEET NOTES

LEGEND

TRAVEL PATH SCHEDULE	DEPARTMENT - TOTAL AREA	EXIT
TRAVEL COMMON DISTANCE	DEPARTMENT AREA	(OL)
POT	REQ'D	→ DESIGN OCC. LOAD
MAX: 75'	PROVIDED	→ REQUIRED WIDTH
TP-1 40'-0" 94'-3"	TOTAL	→ PROVIDED WIDTH
TP-2 71'-0" 133'-10 1/2"	23,740 SF	
TP-3 63'-0" 190'-3 1/2"		
TP-4 23'-0" 139'-10 1/2"		

P EXISTING PANIC HARDWARE/PANIC HARDWARE REQUIRED, VIF COMPLIANCE IN FIELD; CORRECT AS NEEDED.

I ILLUMINATED EXIT SIGN. MOST LOCATIONS ARE EXISTING, SYMBOLS SHOWN ARE APPROXIMATE. GC TO VERIFY LOCATIONS IN FIELD.

RATED 2-A FIRE EXTINGUISHER. VERIFY LOCATIONS WITH OWNER, SUBJECT TO FIRE MARSHAL APPROVAL; SEE 2/A002.1 FOR MOUNTING HEIGHTS.

NOTE- CONTRACTOR TO VERIFY FLOOR AREA COVERAGE AND TRAVEL DISTANCES PER IFC TABLE 906.3(1). TYPICALLY, A MAXIMUM 75' TRAVEL DISTANCE AND 1 PER 6,000 SF OF FLOOR AREA.

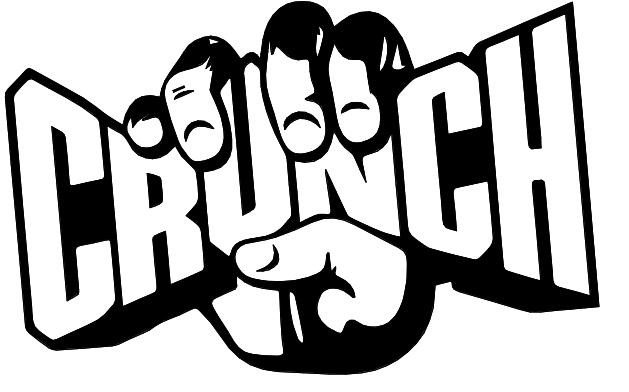
PROJECT MANAGER
Kris Johnson

PROJECT ARCHITECT
Jeff Jennings

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

DATE: 10/27/2023
PROJECT NO: 09700013000

A002.1



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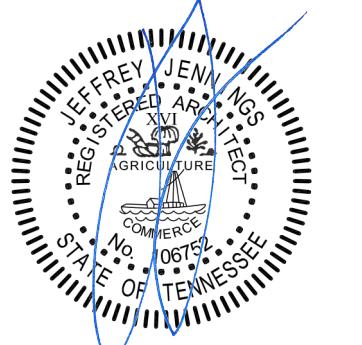
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CONSTRUCTION DRAWINGS
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SHEET TITLE
DEMOLITION FLOOR PLAN

DEMOLITION NOTES

- TAKE BACK ELECTRICAL TO SAFE POINT. COORDINATE WITH NEW WORK PER PLUMBING PLANS.
- TAKE BACK MECHANICAL TO SAFE POINT. COORDINATE WITH NEW WORK PER PLUMBING PLANS.
- COORDINATE EXISTING PLUMBING WITH NEW WORK. SAW CUT AS REQUIRED TO ACCOMMODATE NEW PLUMBING. COORDINATE WITH PLUMBING CONTRACTOR FOR REMOVAL LOCATIONS PER PLUMBING PLANS. DRYWALL SHALL BE REMOVED TO PROVIDE BACKING AT ALL NEW TV LOCATIONS. COORDINATE WITH NEW WORK.
- CONTRACTOR TO VERIFY IF ANY WALLS TO BE DEMOLISHED ARE STRUCTUREALLY SUPPORTED. IF NOT, CONTRACTOR TO REMOVE WALLS AND REPORT TO ARCHITECT AND OWNER.
- CONTRACTOR TO FIELD VERIFY CONCRETE SLAB CONDITIONS. CUT AND REMOVE SLAB TO ACCOMMODATE NEW DRAIN SLOPES AT SHOWERS AT 1/8" PER 12". CONFIRM ALL CROSS SLOPES MEET ADA COMPLIANCE REQUIREMENTS.
- WHERE FLOOR PREPARATION IS REQUIRED FOR NEW FLOORING, PATCH, CLEAN AND REPAIR CONCRETE AS REQUIRED TO ALLOW FOR NEW FLOORING INSTALLATION.
- ALL EXISTING CONCRETE SLABS AND GIRDERS SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION.
- ALL EXISTING T-BAR / GYP BD. CEILINGS TO BE REMOVED. U.N.O. SEE MEP PLANS FOR NEW OPENINGS AND PENETRATIONS. PATCH AND REPAIR AS NEEDED. INSTALL FLASHINGS AND CURBS ETC. PER MANUFACTURER'S DETAILS.

SHEET NOTES

- INSULATION IN WALLS AND ROOF SYSTEMS SHALL BE REPLACED IN KIND WHERE REMOVED OR POKED THROUGH DURING DEMOLITION. NOTIFY ARCHITECT IF INSULATION ENCOUNTERED ON CEILINGS BELOW (AND NOT ATTACHED TO THE ROOF DECK).
- REMOVE ALL EXISTING FLOORING, FLOORING SUBSTRATE AND ADHESIVE WHERE NOT STATED TO REMOVE. COORDINATE WITH NEW WORK. SEE EXISTING STRUCTURAL PLANS FOR SAW CUTTING/TRENCHING DETAILS. CONFIRM WITH GC FOR ADDITIONAL PREFERENCES AND REQUESTS. VERIFY LOCATIONS IN THE FIELD AND REVIEW WITH GC. QUESTIONS ABOUT MEANS AND METHODS TO BE REVIEWED FIRST WITH ARCHITECT AND OWNER.
- IF EXISTING COOLERS ARE FOUND ON SITE, DISCUSS REMOVAL PROCEDURES WITH GC.
- VOIDS IN SLAB LEFT AFTER REFRIGERATOR REMOVAL TO BE FILLED IN. CONFIRM WITH GC MEANS AND METHODS.
- EXISTING PLUMBING FIXTURES TO BE REMOVED. COORDINATE WITH NEW WORK. PROVIDE BID ALTERNATE TO REPLACE IF NECESSARY.
- ALL EXISTING EXTERIOR AND INTERIOR SIGNAGE TO BE REMOVED.

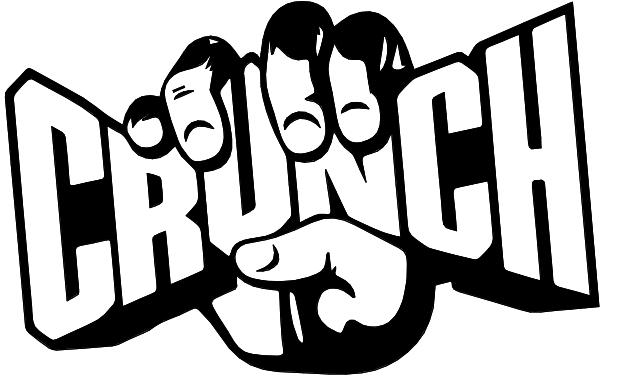
TENANT'S ALTERNATIVES TO CERTAIN PERIMETER WALL CONDITIONS. CONFIRM WITH TENANT BEFORE PROCEEDING.

- NO EXISTING FURRING
a. INSTALL NEW 3-5/8" METAL STUDS WITH R-15 BATT INSULATION AND (1) LAYER OF 5/8" GYP. BD.
- EXISTING FURRING TO BE REMOVED
a. LEAVE, BUT OVERLAY WITH NEW 3-5/8" METAL STUDS WITH R-15 BATT INSULATION AND (1) LAYER OF 5/8" GYP. BD.
- EXISTING STRUCTURAL COLUMNS TO REMAIN. TYP. OF ALL. REMOVE FURRING AND PROTECT DURING DEMOLITION.
- EXISTING INTERIOR WALLS, DOORS, SOFFITS, CEILINGS AND CASEWORK TO BE REMOVED. TYP. OF ALL U.N.O.
- EXISTING ROOF DRAINS TO REMAIN. G.C. TO PAINT TO MATCH COLUMN COLOR.
- EXISTING PLUMBING FIXTURES TO BE REMOVED. TYP. OF ALL.
- EXISTING EXTERIOR DOOR TO BE REMOVED. INFILL TO MATCH ADJACENT WALL CONDITIONS.
- EXISTING CMU SHEAR WALL TO REMAIN.
- EXISTING ELECTRICAL PANELS TO REMAIN.
- EXISTING CONCRETE SLAB (TRENCHING) TO BE REMOVED FOR FUTURE PLUMBING FIXTURES. CONTRACTOR TO VERIFY LOCATIONS AND EXTENTS IN FIELD.
- EXISTING CONCRETE SLAB (TRENCHING) TO BE REMOVED FOR FUTURE PLUMBING FIXTURES. CONTRACTOR TO VERIFY LOCATIONS AND EXTENTS IN FIELD.

LEGEND

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:	1/8" = 1'-0"	
DATE:	10/27/2023	
PROJECT NO:	22-45	

A100.1



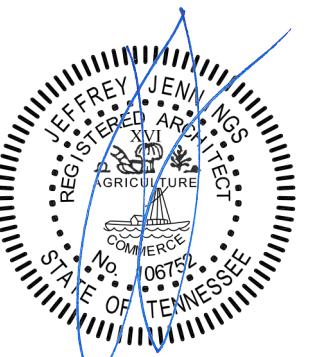
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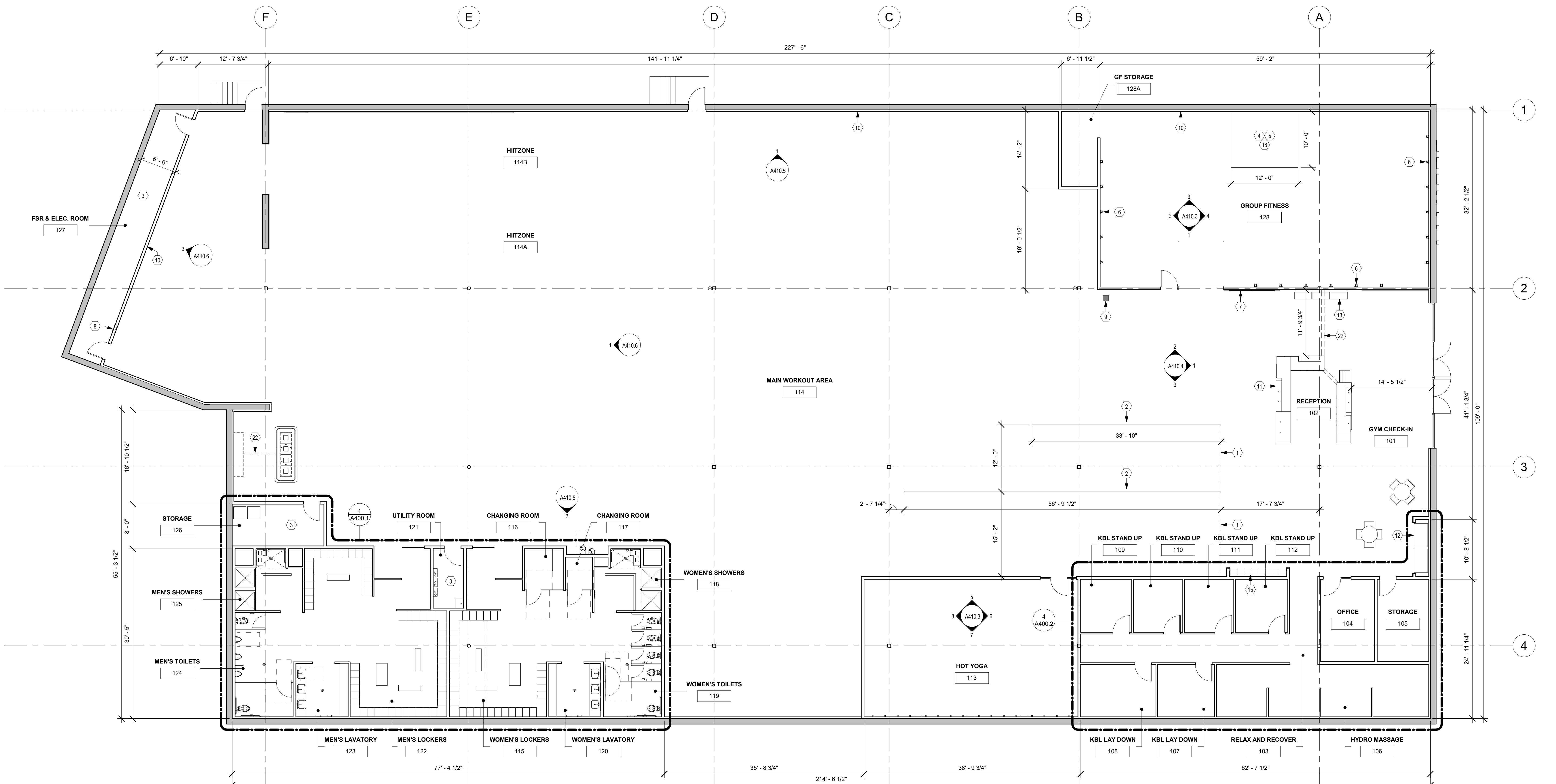
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ELECTRICAL			
STRUCTURE			
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GENERAL NOTES

- G.C. TO VERIFY EXACT WALL COVERING SQUARE FOOTAGES NEEDED IN FLOOR WASTE TO BE DETERMINED BY G.C. AND TILE VENDOR.
- ALL CONSTRUCTION TO BE FIRE RESISTANT OR OF FIRE RETARDANT MATERIALS. ALL INTERIOR FINISHES TO COMPLY WITH FLAME SPREAD REQUIREMENTS OF IBC.
- ALL EXPOSED ELECTRICAL CONDUIT, PIPES, AND INFRASTRUCTURE TO BE PAINTED WHITE. SEE CRUNCH CONSTRUCTION MANUAL FOR COLOR CODES.
- G.C. TO VERIFY LOCATIONS OF ALL EXISTING STRUCTURAL COLUMNS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT OF PLAN DISCREPANCIES.
- ALL DIMENSIONS ARE TO FACE OF FINISH (F.O.F.) UNLESS OTHERWISE NOTED.
- SEE A3.1 FOR DOOR, WINDOW, AND HARDWARE SCHEDULE.
- MINIMUM CLEARANCE BETWEEN ALL EQUIPMENT ON EXIT ACCESS ROUTES TO BE MINIMUM 4' CLEAR, TYP.
- G.C. TO PROVIDE ACCESSIBLE FOR REPLACING ANY DAMAGED FLASHING AROUND EXTERIOR DOORS.
- G.C. TO PROVIDE PANIC HARDWARE AT ALL EXISTING EXIT DOORS PER IBC.
- G.C. TO CONFIRM RACEWAYS WITH EQUIPMENT MANUFACTURER PRIOR TO MANUFACTURING.
- G.C. TO PROVIDE LEVEL 4 GYPSUM BOARD PER GA 214.

SHEET NOTES

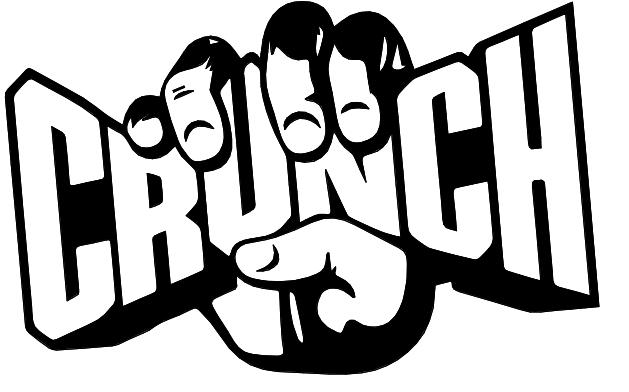
- G.C. TO ROUTE POWER TO ELECTRICAL RACEWAYS FOR TREADMILL. CUT CONCRETE TRENCH AND REPOUR FOR SMOOTH FINISH, SEE ELECTRICAL.
- 6' x 7' METAL CARDIO CURB FOR EQUIPMENT POWER SUPPLY PER CRUNCH MANUAL.
- G.C. TO CLEAN CONCRETE FOR LIKE NEW FINISH.
- MUSIC EQUIPMENT ALCOVE, 22'D x 21'W x 30'H. G.C. TO CONFIRM SOUND EQUIPMENT SPACE REQUIREMENTS AND LOCATION FOR ALCOVE.
- PROVIDE A 12'-0"W x 10'-0"D SINGLE PLATFORM WITH 7" MAX. STEP UP. REFER TO DETAIL 17/A500.2.
- PROVIDE WALL BRACING SUPPORT FOR STROOPS SPINE. REFER TO DETAIL 5/A500.2.
- THE HOT YOGA AREA REFER TO DETAIL 4/A500.4. G.C. TO PROVIDE SOLID BLOCKING. SEE COM FOR ADDITIONAL REQUIREMENTS.
- NEW FIRE ALARM CONTROL PANEL PROVIDED BY G.C., COORDINATE INSTALLATION WITH FIRE ALARM SUB-CONTRACTOR.
- SELF CHECK-IN. G.C. TO VERIFY LOCATION AND PROVIDE POWER / DATA.
- CONTINUOUS WALL MOUNTED MIRRORS, SEE INTERIOR ELEVATIONS FOR HEIGHTS.
- BUILT-IN CRUNCH STANDARD RECEPTION DESK AND BACK COUNTER WITH CRUNCH PLEXI-GLASS LOGO. SEE CRUNCH CONSTRUCTION MANUAL FOR ADDITIONAL REQUIREMENTS AND DETAIL 15/A500.2

LEGEND

- | |
|---|
| 12 BEVERAGE COOLERS. VERIFY ROUGH OPENING HEIGHT AND WIDTH |
| 13 MODULAR RETAIL DISPLAY. SEE CRUNCH CONSTRUCTION MANUAL FOR ADDITIONAL REQUIREMENTS |
| 15 IN-WALL WALLET LOCKERS. SEE INTERIOR ELEVATIONS. 5% MIN. OF EACH TYPE TO BE ACCESSIBLE. |
| 18 INSTALL BLOCKING FOR AV EQUIPMENT, SPEAKERS, COORDINATE LOCATIONS WITH AV |
| 22 TRENCH FOR POWER AND DATA TO RECEPTION DESKS (AND PT BAR IF APPLICABLE) AND REPOUR FLUSH |

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
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A101.1



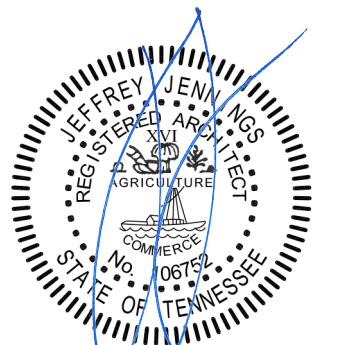
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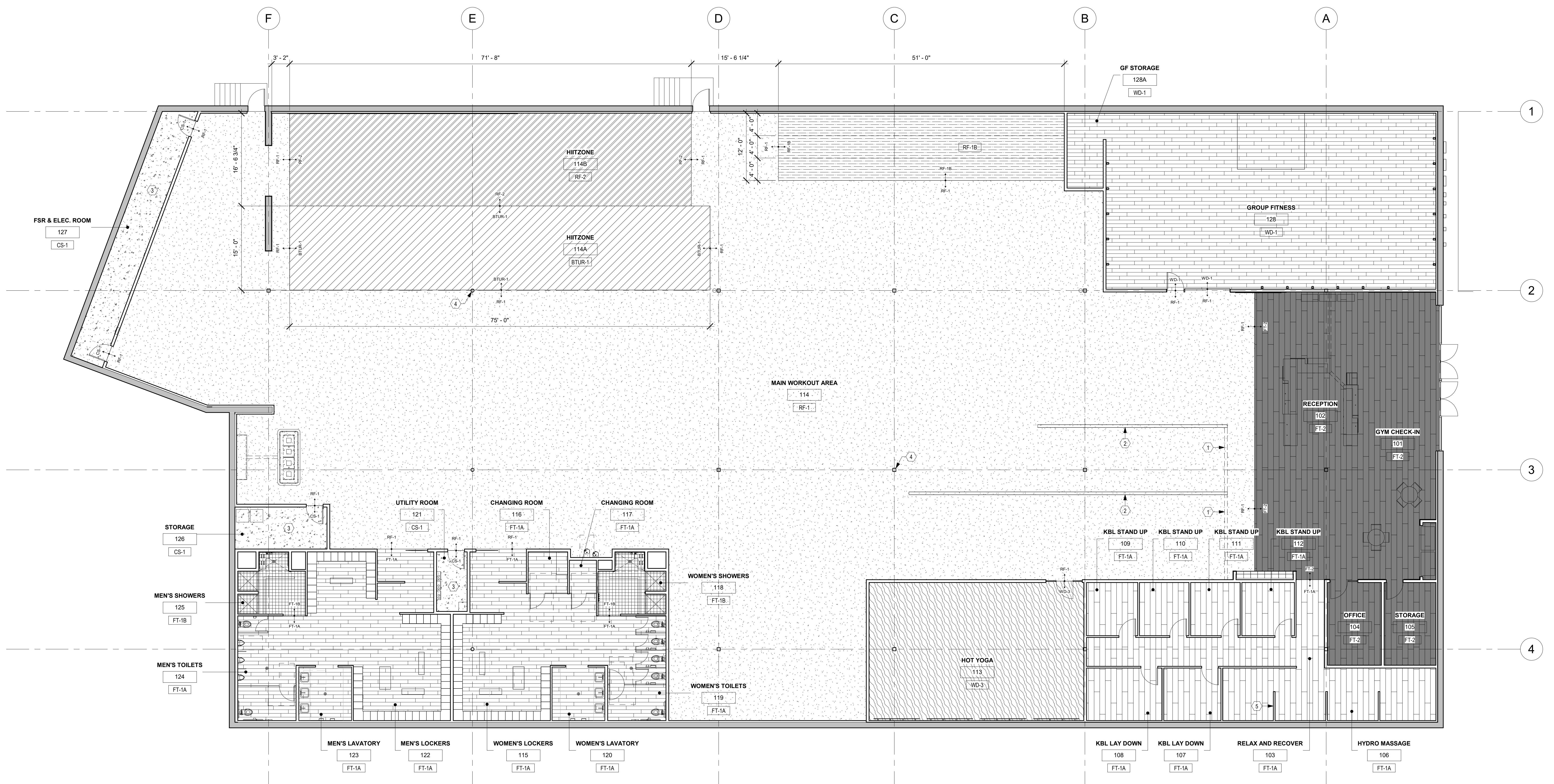
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CRUNCH FITNESS
3634 BELL ROAD
NASHVILLE, TN 37214
CONSTRUCTION DRAWINGS
APN: 097/00013000

SHEET TITLE		
FINISH FLOOR PLAN		
NO. DESCRIPTION DATE		
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:	1/8" = 1'-0"	
DATE:	10/27/2023	
PROJECT NO:	22-45	



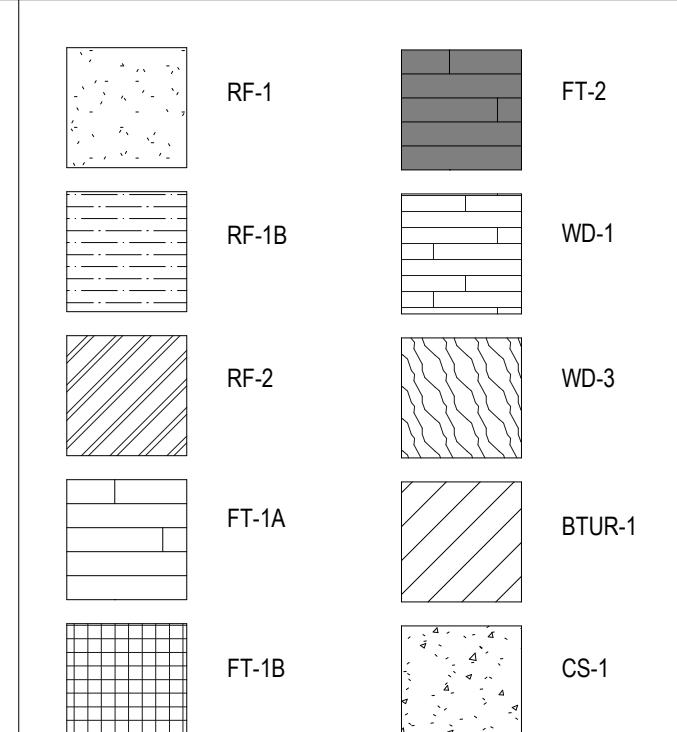
CONSTRUCTION NOTES

- GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING FLOORING MATERIALS IN FELT PRIOR TO ORDERING MATERIAL.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR SMOOTH CONCRETE POUR FOR ANY NEW FLOORING. FILLED CORES AND TRENCH LINES ARE TO BE FINISHED SMOOTH TO EXISTING CONCRETE, TYP.
- CONTRACTOR SHALL VERIFY ELEVATION OF EXISTING FLOOR SUBSTRATE AND THAT THE FLOOR ANGLE IS NOT MORE THAN 1/2" OUT OF LEVEL. THE G.C. SHALL RECEIVE INSTRUCTIONS FROM THE TENANT ON METHOD OF CORRECTION, IF REQUIRED.
- GENERAL CONTRACTOR SHALL VERIFY TILE COLOR WITH TENANT PRIOR TO INSTALL.
- GENERAL CONTRACTOR TO CLEAN EXISTING CONCRETE FOR LIKE NEW FINISH.
- ELECTRICAL OUTLETS / COVERS TO MATCH ADJACENT WALL / CEILING / FLOOR COLOR

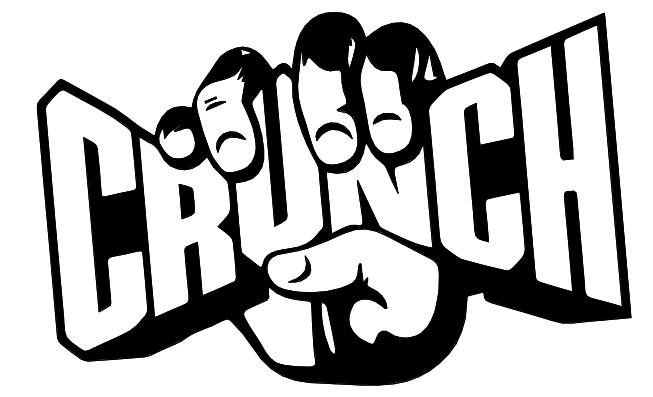
SHEET NOTES

- G.C. TO ROUTE POWER TO ELECTRICAL RACEWAYS FOR TREADMILLS, TYP. CUT CONCRETE TRENCH AND REPAIR FOR SMOOTH FLUSH FINISH. SEE ELECTRICAL.
- 6" x 7" METAL CURB FOR EQUIPMENT POWER SUPPLY PER CRUNCH MANUAL.
- G.C. TO CLEAN CONCRETE FOR LIKE NEW FINISH
- NO VINYL BASE ON EXPOSED STRUCTURAL COLUMNS, TYP.
- KOLAY ACCENT AND TRIM ON HYDROMASSAGE WALLS, TYP.

LEGEND



A110.1



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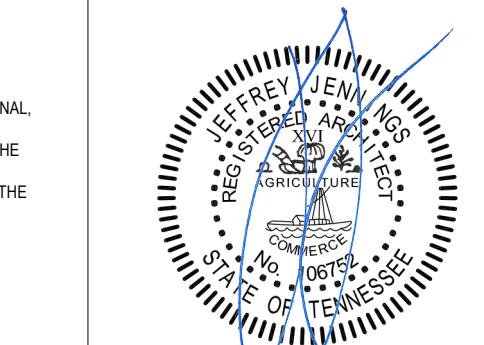
JPLUS ARCHITECTS INC.
A FULL SERVICE ARCHITECTURAL COMPANY

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C. THIS DRAWING IS NOT FINAL
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ARCHITECT'S SEAL AND
STAMP IS APPLIED TO THE
RIGHT.



PROJECT TEAM

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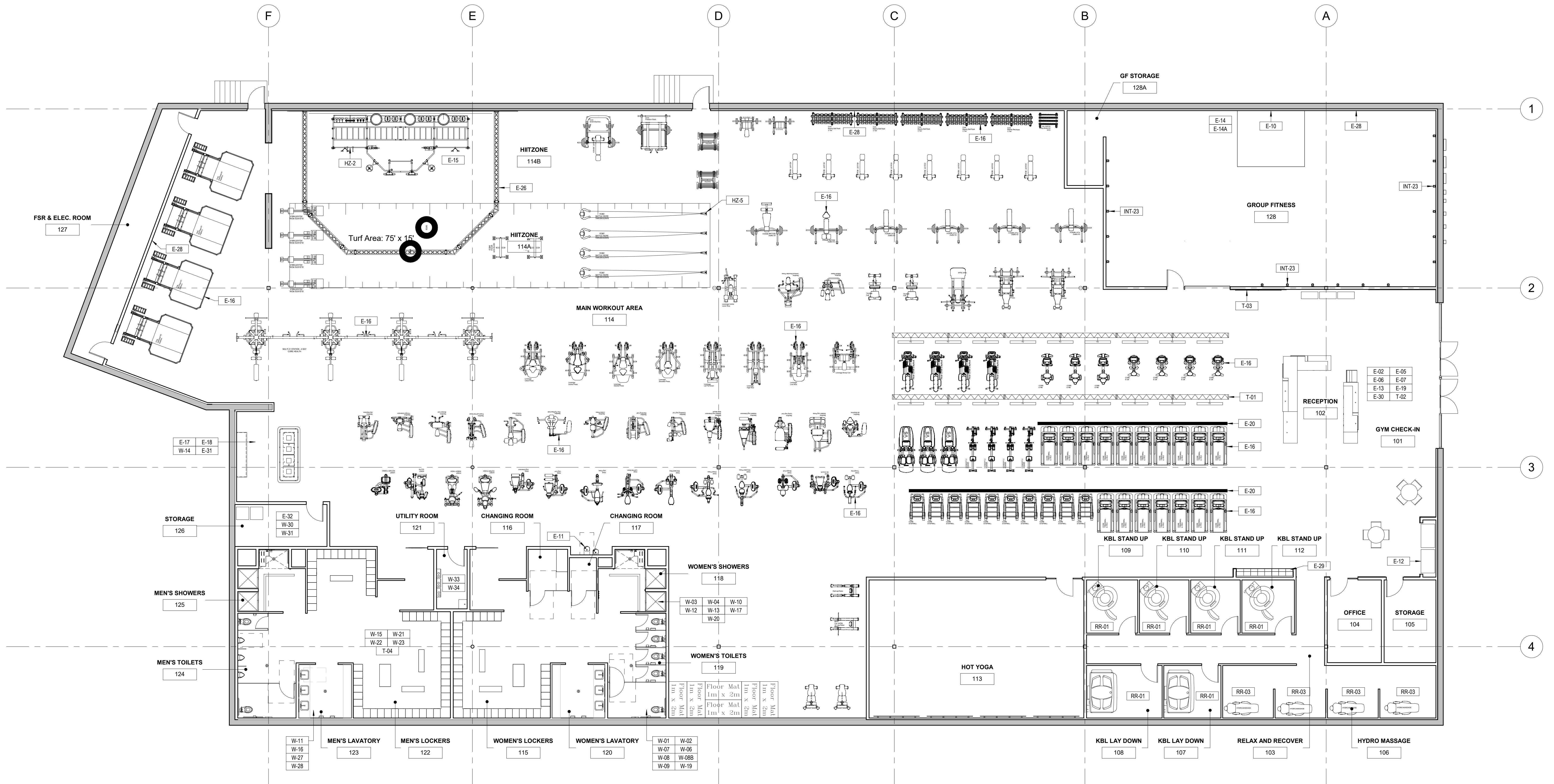
SHEET TITLE
EQUIPMENT FLOOR PLAN

GENERAL NOTES

- GENERAL CONTRACTOR TO PROVIDE TRASH CANS AND SANITATION STATIONS AT LOCATIONS DETERMINED BY TENANT, SEE DETAIL 8/A500.4

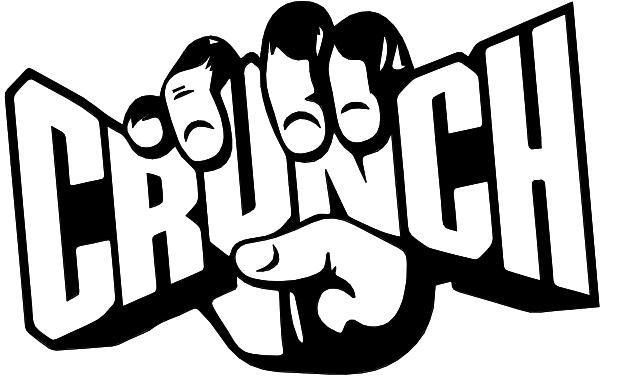
SHEET NOTES

LEGEND



NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:	1/8" = 1'-0"	
DATE:	10/27/2023	
PROJECT NO:	22-45	

A110.5



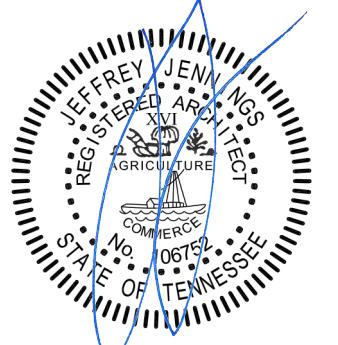
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PROJECT TEAM

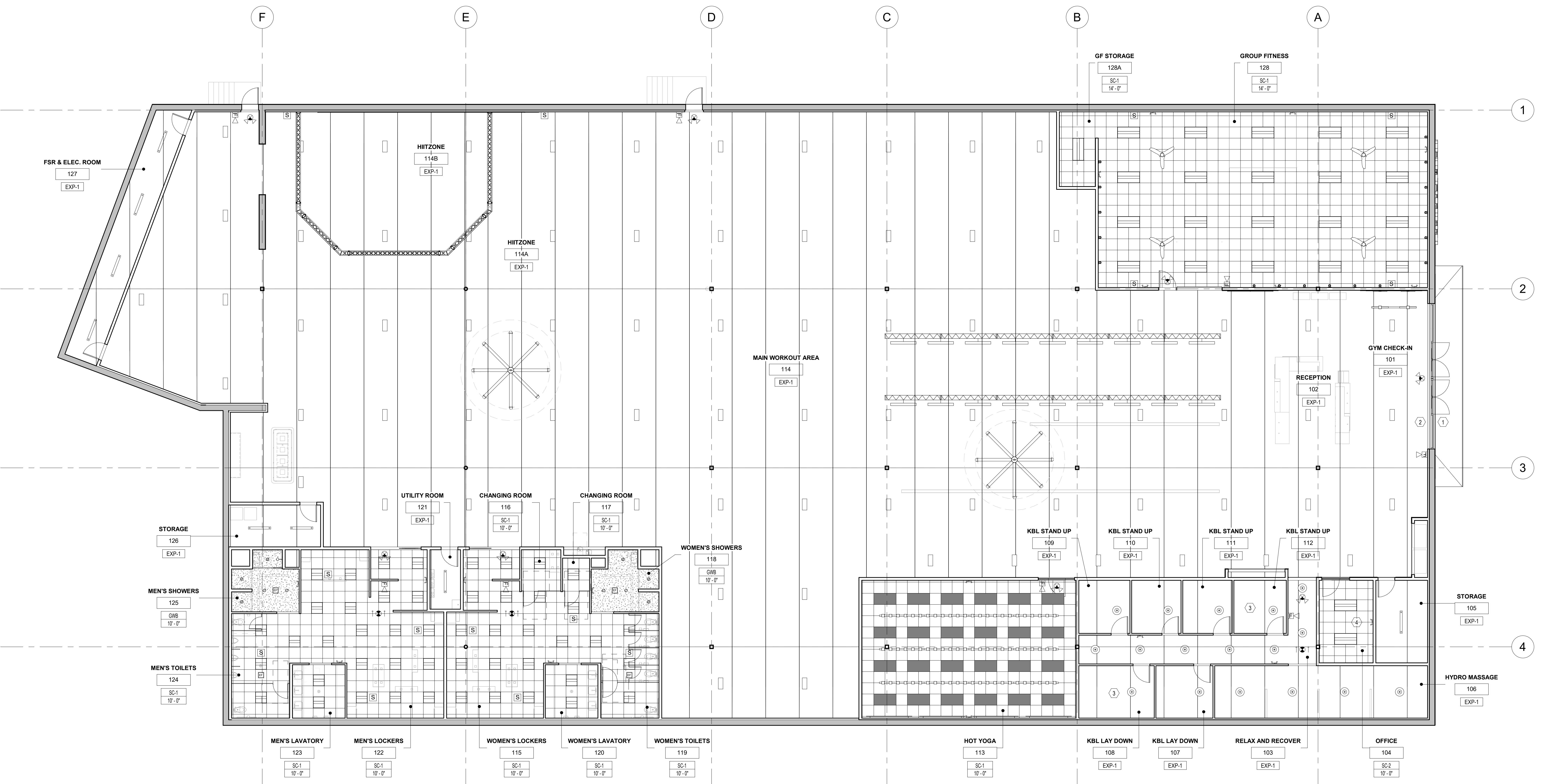
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CRUNCH FITNESS
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NASHVILLE, TN 37214
APN: 09700013000



GENERAL NOTES

1. HEIGHT REFERENCES ARE TAKEN FROM FINISH FLOOR ELEVATION UNLESS OTHERWISE NOTED. FIELD VERIFY CONDITIONS AND LOCATIONS OF PLUMBING, MECHANICAL, ELECTRICAL, AND STRUCTURAL ITEMS. NOTIFY ARCHITECT OF ANY INADEQUATE CLEARANCES FOR CEILING LAYOUT AS DESIGNED DIMENSIONS ARE TO CENTERLINE OF FIXTURE OR FACE OF FRAMING UNLESS NOTED OTHERWISE. SEE MECHANICAL DRAWINGS FOR SPECIFICATIONS FOR DISTRIBUTION, SIZING, CONNECTIONS, AND OTHER REQUIREMENTS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
2. NEW SUPPLY AIR REGISTER, SEE MECHANICAL DRAWINGS.
3. LIGHT FIXTURES, CEILING MOUNTED, AND OTHER EXPOSED EQUIPMENT GRILLES SHALL BE FINISHED TO MATCH ADJACENT CEILING FINISHES. UNLESS NOTED OTHERWISE - REGISTER GRILLES SHALL BE PAINTED TO MATCH ADJACENT SURFACES.
4. COORDINATE AND VERIFY FINAL LOCATIONS OF ALL CEILING ACCESS PANELS PROVIDED BY CONTRACTOR. ACCESS PANELS TO BE IN GYPSUM BOARD. CEILINGS TO BE COORDINATED WITH ARCHITECT.
5. OVERHEAD SPRINKLER LINES, UTILITIES, AND HVAC DISTRIBUTION ARE TO BE HELD AS TIGHT TO STRUCTURE ABOVE AS POSSIBLE. EXPOSED STRUCTURE SUCH AS CONDUITS, DUCTS, SPRINKLER LINES, CABLES, PIPES, BRACKETS, INSULATION LINER, AND OTHER EXPOSED EQUIPMENT IS TO BE PAINTED. VERIFY COLOR WITH TENANT.
6. DESIGNER TO PROVIDE SPRINKLER TILES IN PUBLIC AREAS. INFORM ARCHITECT OF CONFLICTS WITH SPRINKLER HEADS. HIGH-TEMP SPRINKLER HEADS SHALL BE 285 DEGREES OR AS SPECIFIED BY THE FIRE SPRINKLER SYSTEM.
7. DESIGNER IN COORDINATION WITH THE OWNER AND TENANT. FIRE SPRINKLER DESIGN SHALL COVER SPRINKLER HEADS SHALL BE FINISHED AS FOLLOWS: CEILINGS - CONCEALED PENDANT TYPE WITH CHROME PLATED FINISH OR PAINT TO MATCH ADJACENT MATERIAL FINISH. VERIFY WITH ARCHITECT SIDE WALLS - RECESSED WITH CHROME PLATED FINISH WITH PAINTED ESCUTCHON TO MATCH ADJACENT WALL MATERIAL.
8. EXPOSED CONSTRUCTION AREAS - STANDARD UPRIGHT TYPE BRASS FINISH. CENTER ALL FIXTURES AND REGISTERS IN LAY-IN CEILING TILES. UNLESS OTHERWISE NOTED, ALL LIGHT FIXTURES SHALL BE SUPPORTED INDIVIDUALLY. EXPOSED CONDUITS, DUCTS, SPRINKLER LINES, CEILING MOUNTED FIXTURES, OR OTHER EXPOSED EQUIPMENT GRILLES SHALL BE FINISHED TO MATCH ADJACENT CEILING FINISHES. LIGHT FIXTURES, OR OTHER ITEMS SHALL HAVE TRIM RINGS TO CONCEAL OPENING IN METAL CONTRACTOR TO RUN CONDUITS FOR POWER, SATELLITE, AND CABLE FOR TELEVISIONS, OR OTHER CEILING MOUNTED EQUIPMENT.
9. PROVIDE SOLID BACKING FOR ALL PENDANT LIGHT FIXTURES, CEILING FANS, TELEVISIONS, OR OTHER CEILING MOUNTED EQUIPMENT.
10. LIGHT FIXTURES SHOWN ON THE PLAN TYPE PENDANTS ARE ONLY FOR REFERENCED DRAWINGS AND DESIGNERS REFER TO THE APPROPRIATE ELECTRICAL DRAWINGS FOR EXACT FIXTURE TYPE AND CIRCUITING. EMERGENCY LIGHTING SHALL BE PROVIDED FROM EMERGENCY POWER SYSTEM TO COMPLY WITH APPLICABLE CODE REQUIREMENTS AND REFER TO ELECTRICAL DRAWINGS.
11. G.C. TO PAINT ALL EXPOSED WIRING AND LOW VOLTAGE DROPS SILVER.
12. G.C. TO PAINT ALL EXPOSED WIRING AND LOW VOLTAGE DROPS SILVER.

SHEET NOTES

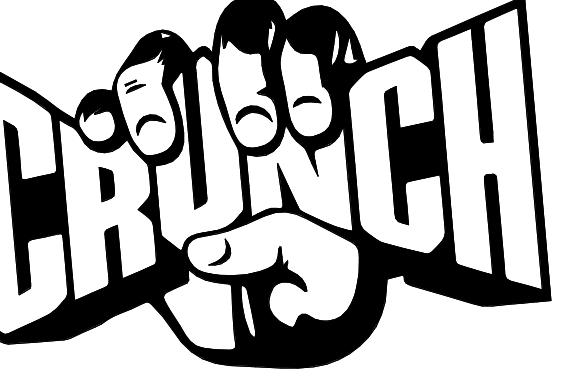
- CONSTRUCTION NOTES**
1. G.C. TO COORDINATE FIXTURE HOUSING AND TRIM TO MATCH CEILING PAINT CONDITIONS. VERIFY WITH OWNER PRIOR TO ORDERING. AREAS OF SC-1 TO HAVE BLACK CEILING GRID AND BLACK FIXTURE HOUSING.
 2. FIXTURES WIRED TO EMERGENCY INVERTER SHALL BE INDICATED BY "EM" NOTIFICATION. CONTRACTOR TO PROVIDE APPROVED FIRE ALARM/HORN/STROBE & SPRINKLER LAYOUT PROVIDED FOR DIAGRAMMATIC PURPOSES ONLY. G.C. TO PROVIDE APPROVED FIRE ALARM/SPRINKLER DRAWINGS BY STATE LICENSED FIRE ALARM/SPRINKLER CONTRACTOR PRIOR TO INSTALL.
 3. AT TANNING ROOMS (AND NOT AT HYDRO MASSAGE) CENTER LIGHTS IN OPEN SPACE BETWEEN TANNING EQUIPMENT AND OPPOSITE WALLS, TYP.
 4. ELECTRICAL CONTRACTOR TO SUPPLY 2" CONDUIT FROM CEILINGS THROUGH ROOF AND WEATHERHEAD FOR DIRECTV CONNECTION. FOLLOW ROOFING MANUFACTURER'S PENETRATION DETAILING.

LEGEND

L-01	L-05	EM-01 EMERGENCY LIGHT
L-02	L-06	EM-02 EMERGENCY LIGHT
L-03A	L-07	FA-01 FIRE ALARM HORN
L-03B	L-08	M-01 EXHAUST FAN
L-04	L-09	AUD SPEAKER
SEE A600.2		BAF-01 BIG ASS FAN ESSENCE
		BAF-02 BIG ASS FAN HAIKU

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:	1/8" = 1'-0"	
DATE:	10/27/2023	
PROJECT NO:	22-45	

A120.1



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CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ANY VARIATIONS FROM THE DIMENSIONS AND

CONDITIONS AS SHOWN ON THESE DRAWINGS.

GENERAL NOTES

- G.C. TO VERIFY EXACT WALL COVERING SQUARE FOOTAGES NEEDED IN
- G.C. SHALL VERIFY TILE COLOR WITH TENANT PRIOR TO INSTALL.
- VERIFY WALL COLORS WITH OWNER PRIOR TO PAINTING.
- G.C. TO PROVIDE SOLID BLOCKING IN ALL WALL MOUNTED FIXTURES, BRACKETS, GRAB BARS, AND ACCESSIBLE BENCHES, TYP.
- G.C. TO PROVIDE AND INSTALL SOLID BLOCKING FIELD WASTE PERCENTAGE TO BE DETERMINED BY G.C. AND TILE VENDOR.
- G.C. TO PROVIDE AND INSTALL SOLID BLOCKING AT ALL GRAB BARS AND SHOWER SEAT.
- DRAWINGS PROVIDED WILL PROVIDE A FINAL PLAN FOR ALL WALL PAINT AND GRAPHICS LAYOUT. CURRENT PAINT AND GRAPHICS ARE PRELIMINARY AND SUBJECT TO CHANGE. VERIFY WITH TENANT PRIOR TO PAINTING WALLS AND APPLYING GRAPHICS.
- REFER TO CRUNCH CONSTRUCTION MANUAL FOR FURTHER DETAILS.
- ALL TRADES CONFIRM PLACE OF FINISH (F.O.F.) U.D.N.
- S.O.H. = SIMILAR OPPOSITE HAND
- ALL TRADES INVOLVED TO CONFIRM ROUGH IN LOCATIONS AND REQUIREMENTS WITH TANNING / HYDROMASSAGE EQUIPMENT SPECS. / INSTALLED BY VENDOR.
- WD-2 TO BE INSTALLED TO FINISH FLOOR (NO BASE BOARD)
- CONTRACTOR TO CONFIRM ALL LIGHT FIXTURE HEIGHTS WITH INTERIOR GRAPHIC LOCATIONS. VERIFY WITH OWNER.
- COORDINATE GRAPHIC LOCATION FOR TVs WITH GRAPHICS AND LIGHTING VENDOR.
- ALL WALL/CEILING MOUNTED DEVICE AND COVER PLATE COLORS ARE TO MATCH THE ADJACENT WALL/CEILING COLOR.

WATERPROOFING NOTES

- FLOOR DRAINS ARE TO HAVE 48" X 48" FORMED BLOCK OUT IN MAIN CONCRETE SLAB POUR TO ALLOW FOR ADJUSTMENT SLOPE TO DRAIN TO BE PROVIDED IN ACCORDANCE WITH LOCAL CODES.
- FLOOR SINKS TO HAVE 34" X 34" FORMED BLOCK OUT IN MAIN CONCRETE SLAB POUR TO ALLOW FOR ADJUSTMENT. ALWAYS REFER TO LOCAL CODES.
- VERIFY TOILET ROOM AND PUBLIC AREA WALLS AND FLOORS ARE SQUARE AND TRUE STRAIGHT BEFORE COMMENCING FINISH WORK. UNLEVEL TILES AND NON UNIFORM JOINT LINES ARE NOT ACCEPTABLE. LAYOUT TILE TO MINIMIZE CUTS.
- CHECK MOISTURE DENSITY OF EXISTING SLAB.
- MOISTURE PROOFING COATINGS SHALL NOT BE USED AS BACKING FOR FRP WALL PANELING AS WELL AS VERTICAL GLASS BACKING SURFACES SCHEDULED TO RECEIVE PAINT IN RESTROOMS AND OTHER MOISTURE SENSITIVE AREAS WHERE GYPSUM BOARD IS SPECIFIED AS WALL FINISH.
- USE SCHULER KERDI SHOWER SYSTEM FOR THE SHOWERS, INCLUDING WALLS, FLOORS, DRAIN TRIM, ETC. CONTACT: JASON ECKARD, JECKARD@SCHULER.COM 410 999 4490
- PROVIDE SOLID BLOCKING AT WALL MOUNTED FIXTURES OR TOILET ROOM ACCESSORIES. PROVIDE STAINLESS STEEL CHANNEL AT BACK OF TOILET ACCESSORIES THAT EXTEND ABOVE TILE WAISTSPLIT LINE TO ENSURE FLUSH INSTALLATION.
- AT THE REAR OF THE SHOWER VALVE CONTROL SHOULD BE A SINGLE LEVER TYPE WITH THE CENTER LINE WITHIN REACH. A RANGE OF NO LESS THAN 18" OR MORE THAN 24" FROM THE REAR EDGE OF SEAT AND WITH A 5 LB. MAXIMUM OPERATING FORCE. CENTER CONTROL 40" ABOVE SHOWER VALVE. SEE SHEET A001.1 FOR DRAINS, DRAINS TO CEILING AND MINIMUM 1/4" CRATE OPENINGS. ALWAYS REFER TO LOCAL CODES. PROVIDE FLEXIBLE HAND SPRAYER ARMALWAYS REFER TO HOSE IN ACCORDANCE WITH CURRENT ACCESSIBLE REQUIREMENTS.

- DO NOT OBSERVE DOORS OR TRIM ON CHAIRS OR CHAIRS ON SWING DOORS. SWING DOORS AND SHOWER ENCLOSURES ARE TO BE CONSTRUCTED FROM APPROVED SHATTER-RESISTANT MATERIALS. HINGED DOORS SHALL OPEN OUTWARDS. GLAZING USED IN DOORS AND SHOWER ENCLOSURES SHALL BE FULLY TEMPERED, LAMINATED, AND METAL FRAMED. GLAZING MUST NOT EXCEED 1/4" THICK.
- IN ADDITION TENANT SHALL INSTALL A LANDLORD-APPROVED (SUCH APPROVAL NOT TO BE UNREASONABLY WITHHELD, CONDITIONED, OR DELAYED) STANDARD WATERPROOFING MEMBRANE ON THE CONCRETE SLAB IN THE WET AREAS SUCH AS REST ROOMS, SHOWER ROOMS, AND ANY MOP INK AREAS THAT ABUT AND SHARE A DEMISING WALL WITH ADJACENT TENANTS AT THE LEASER PREMISES. WATERPROOFING MUST BE APPLIED AT THE LEASER'S EXPENSE. THE WATERPROOFING SYSTEM TO LANDLORD'S REPRESENTATIVE FOR APPROVAL (SUCH APPROVAL NOT TO BE UNREASONABLY WITHHELD, CONDITIONED, OR DELAYED).

SHEET NOTES

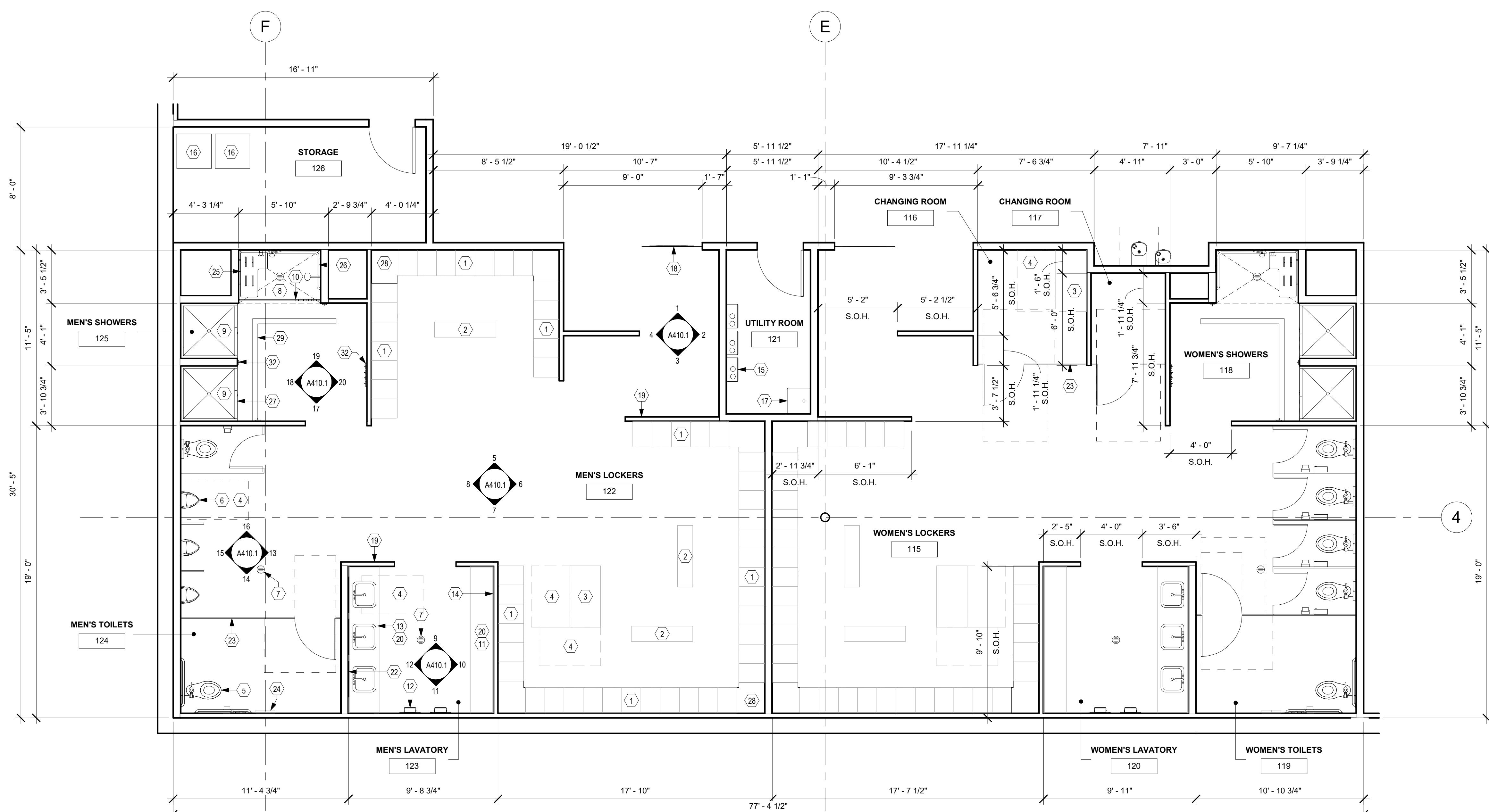
- FULL HEIGHT LOCKERS BY TENANT, G.C. TO SOLID BACKING AND CORNER FILLERS, TYP.
- LOCKER ROOM BENCH BOLTED TO CONCRETE SUB-FLOOR
- ACCESSIBLE LOCKER ROOM BENCH, SEE SHEET A001.1
- 30" X 48" ACCESSIBLE CLEAR SPACE
- ACCESSIBLE WATER CLOSET, GRAB BARS, TP DISPENSER, ETC, SEE SHEET A001.1
- ACCESSIBLE URINAL, SEE SHEET A001.1
- FLOOR DRAIN, SEE PLUMBING
- CUSTOM ACCESSIBLE SHOWER WITH 1/2" MAX. FINISH FLOOR, TRANSITION, G.C. TO VERIFY R.O. SIZE PRIOR TO FRAMING, SEE SHEET A001.1, TYP.
- CUSTOM TILE SHOWER
- WALL MOUNTED VANITY, G.C. TO PROVIDE SOLID BACKING
- WALL MOUNTED VANITY AT 2'-0" A.F. WITH SOLID SURFACE TOP
- SENSOR-OPERATED HAND DRYER, WITH STAINLESS STEEL SPLASH GUARD, G.C. TO PROVIDE POWER AND BACKING
- 2'-0" DEEP LAVATORY COUNTER MOUNTED AT 2'-0" A.F. WITH SOLID SURFACE TOP
- WALL MOUNTED MIRROR, SEE ELEVATIONS. BOTTOM OF REFLECTIVE SURFACE TO BE 40" MAX. A/F MIRROR TO BE MOUNTED DIRECTLY TO DRYWALL; NO TILE BEHIND MIRROR.
- WATER HEATERS, SEE PLUMBING PLANS. REQUIRED VENDOR RINNAI: CORPORATEPRICING@RINNAIUS
- CLOTHES WASHER, DRYER TO BE PROVIDED BY TENANT, G.C. TO PROVIDE POWER AND VENTILATION
- FLOOR-MOUNTED MOP SINK, G.C. TO INSTALL FRP ON WALLS UP TO 48" AFF AND EXTENDING 24" BEYOND SINK
- LOCKER ROOM TEMPERED GLASS PANEL, REFER TO CRUNCH CONSTRUCTION MANUAL FOR DETAILS
- G.C. TO PROVIDE AND INSTALL TRIM/ROUTER TRIM TO CAP ALL TILE TRIM SPEC W/G/C PRIOR TO PROCUREMENT. TYP. VERIFY SS-1, SOLID VANITY SURFACE, G.C. TO INSTALL AND PROVIDE BACKING, 34" MAX ABOVE FINISH FLOOR
- BACK-LIT WALL-MOUNTED VANITY MIRROR, BOTTOM OF REFLECTIVE SURFACE TO BE 40" MAX. A/F MIRROR TO BE MOUNTED AT 64" AFF
- PHENOLIC PLATE, G.C. TO PROVIDE AND INSTALL SOLID BLOCKING IN WALL, TYP.
- SEAT COVER DISPENSER, SEE SHEET A001.1
- ACCESSIBLE SHOWER SEAT, SEE SHEET A001.1
- SHOWER GRAB BAR, SEE SHEET A001.1
- FRAMELESS SHOWER DOORS, G.C. TO VERIFY SIDELIGHT AND / OR TYP. POSITION PER CLIENT DIRECTION.
- LCD TV ON WALL, G.C. TO PROVIDE SOLID BLOCKING AND POWER, TYP.
- LINEAR TRENCH DRAIN, G.C. TO SLOPE TILE FLOOR TO DRAIN / BUILD UP MORTAR BED TO ACCOMMODATE DRAINAGE
- COAT AND ROBE HOOKS PROVIDED AND INSTALLED BY GC AT 5'-6" AFF TYP. AND AT 48" MAX AFF TYP AT ACCESSIBLE LOCATIONS

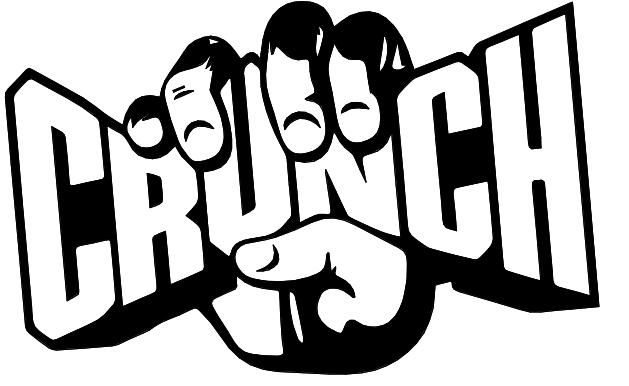
CRUNCH FITNESS
3634 BELL ROAD
NASHVILLE, TN 37214
APN: 09700013000

SHEET TITLE
**ENLARGED LOCKER &
SHOWER AREA PLAN**

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:	AS NOTED	
DATE:	10/27/2023	
PROJECT NO:	22-45	

A400.1





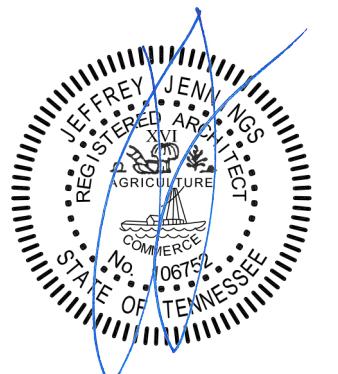
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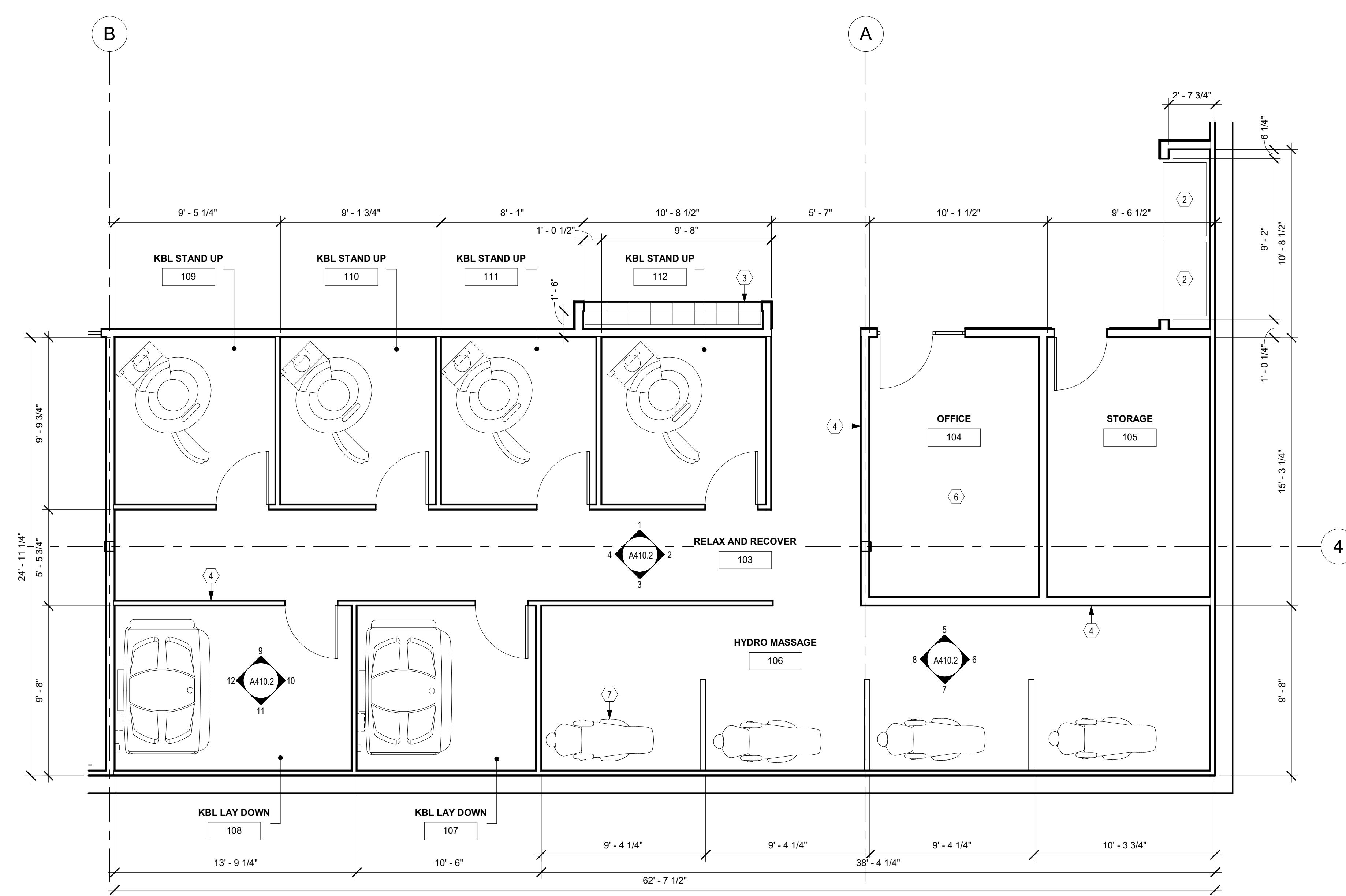
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GENERAL NOTES

- G.C. TO VERIFY EXACT WALL COVERING SQUARE FOOTAGES NEEDED IN FLOOR PLAN.
- G.C. SHALL VERIFY TILE COLOR WITH TENANT PRIOR TO INSTALL. VERIFY WALL COLORS WITH OWNER PRIOR TO PAINTING.
- G.C. TO PROVIDE SOLID BLOCKING IN ALL WALL MOUNTED FIXTURES, BRACKETS, GRAB BARS, AND ACCESSIBLE BENCHES, TYP.
- G.C. TO PROVIDE AND INSTALL SOLID BLOCKING IN FIELD. WASTE PERCENTAGE TO BE DETERMINED BY G.C. AND TILE VENDOR.
- G.C. TO PROVIDE AND INSTALL SOLID BLOCKING AT ALL GRAB BARS AND SHOWER SEAT, TYP.
- CONTRACTOR WILL PROVIDE A FINAL PLAN FOR ALL WALL PAINT AND GRAPHICS LAYOUT. CURRENT PAINT AND GRAPHICS ARE PRELIMINARY AND SUBJECT TO CHANGE. VERIFY WITH TENANT PRIOR TO PAINTING WALLS AND APPLYING GRAPHICS.
- REFER TO CRUNCH CONSTRUCTION MANUAL FOR FURTHER DETAILS.
- ALL WALL CEILING MOUNTED DEVICE FINISH (F.O.F.) U.O.N.
- S.O.H. = SIMILAR OPPOSITE HAND
- ALL TRADES INVOLVED TO CONFIRM ROUGH IN LOCATIONS AND REQUIREMENTS WITH TANNING / HYDROMASSAGE EQUIPMENT SPECS. / INTERIOR DESIGNERS.
- WD-2 TO BE INSTALLED TO FINISH FLOOR (NO BASE BOARD)
- CONTRACTOR TO CONFIRM ALL LIGHT FIXTURE HEIGHTS WITH INTERIOR GRAPHIC LOCATIONS. VERIFY WITH OWNER.
- COORDINATE ROUGH-IN LOCATION FOR TV'S WITH GRAPHICS AND LIGHTING VENDOR.
- ALL WALL/CEILING MOUNTED DEVICE AND COVER PLATE COLORS ARE TO MATCH THE ADJACENT WALL/CEILING COLOR.



SHEET NOTES

- VENDING MACHINES, VERIFY ROUGH OPENING HEIGHT AND WIDTH WITH MANUFACTURER PRIOR TO FRAMING OPENING
- IN-WALL WALLET LOCKERS, SEE INTERIOR ELEVATIONS. 5% MIN. OF EACH H. TO BE ACCESSIBLE.
- WALL TO HAVE WAINSCOT AS SCHEDULED. SEE INTERIOR ELEVATIONS.
- OFFICE COUNTER ON TWO WALLS, BRACE AS REQUIRED
- PROVIDE FLOOR/CURB STOP FOR ALL HYDROMASSAGE CHAIRS. EXAMPLE: PROVIDE 1.5X1.25 STEEL OR SIMILAR AND ANCHORED TO THE FLOOR. DO NOT USE PLASTIC CORD GUARDS AS THEY CAN GET PULLED OUT AND DAMAGE THE FLOOR. DO NOT USE FOAM RUBBER AS IT CAN MOVE AND BUMPING AGAINST WALLS. COORDINATE METHOD LENGTH AND DISTANCE WITH EQUIPMENT SPEC. TENANT, G.C. TYP.

PROJECT TEAM	FRANCHISE	MECHANICAL	STRUCTURAL
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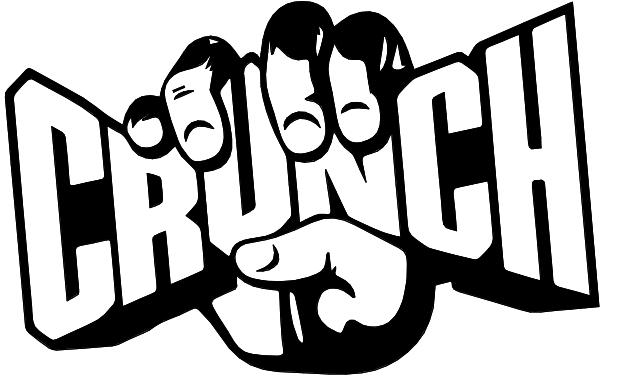
LEGEND

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NASHVILLE, TN 37214
CONSTRUCTION DRAWINGS
APN: 09700013000

SHEET TITLE
**ENLARGED RELAX &
RECOVER AREA PLAN**

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:	AS NOTED	
DATE:	10/27/2023	
PROJECT NO:	22-45	

A400.2

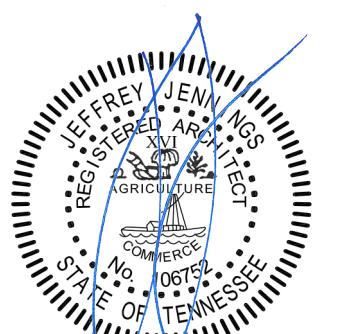


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GENERAL NOTES

- G.C. TO VERIFY EXACT WALL COVERING SQUARE FOOTAGES NEEDED IN
- G.C. SHALL VERIFY TILE COLOR WITH TENANT PRIOR TO INSTALL.
- VERIFY WALL COLORS WITH OWNER PRIOR TO PAINTING.
- G.C. TO PROVIDE SOLID BLOCKING IN ALL WALL MOUNTED FIXTURES, BRACKETS, GRAB BARS, AND ACCESSIBLE BENCHES, TYP.
- G.C. TO PROVIDE AND INSTALL SOLID BLOCKING IN FIELD WASTE PERCENTAGE TO BE DETERMINED BY G.C. AND TILE VENDOR.
- G.C. TO PROVIDE AND INSTALL SOLID BLOCKING AT ALL GRAB BARS AND SHOWER SEAT.
- DRAWINGS PROVIDED WILL PROVIDE A FINAL PLAN FOR ALL WALL PAINT AND GRAPHICS LAYOUT. CURRENT PAINT AND GRAPHICS ARE PRELIMINARY AND SUBJECT TO CHANGE. VERIFY WITH TENANT PRIOR TO PAINTING WALLS AND APPLYING GRAPHICS.
- REFER TO CRUNCH CONSTRUCTION MANUAL FOR FURTHER DETAILS.
- ALL WORK TO BE FINISH (F.O.F.) U.D.N.
- S.O.H. = SIMILAR OPPOSITE HAND
- ALL TRADES INVOLVED TO CONFIRM ROUGH IN LOCATIONS AND REQUIREMENTS WITH TANNING / HYDROMASSAGE EQUIPMENT SPECS. / INSTALLATION.
- WD-2 TO BE INSTALLED TO FINISH FLOOR (NO BASE BOARD)
- CONTRACTOR TO CONFIRM ALL LIGHT FIXTURE HEIGHTS WITH INTERIOR GRAPHIC LOCATIONS, VERIFY WITH OWNER.
- COORDINATE GRAPHIC LOCATION FOR TVs WITH GRAPHICS AND LIGHTING VENDOR.
- ALL WALL/CEILING MOUNTED DEVICE AND COVER PLATE COLORS ARE TO MATCH THE ADJACENT WALL/CEILING COLOR

WATERPROOFING NOTES

- FLOOR DRAINS ARE TO HAVE 48" X 48" FORMED BLOCK OUT IN MAIN CONCRETE SLAB POUR TO ALLOW FOR ADJUSTMENT SLOPE TO DRAIN TO DRAIN. REFER TO LOCAL CODES.
- FLOOR SINKS TO HAVE 34" X 34" FORMED BLOCK IN MAIN CONCRETE SLAB POUR TO ALLOW FOR ADJUSTMENT. ALWAYS REFER TO LOCAL CODES.
- VERIFY TOILET ROOM AND PUBLIC AREA WALLS AND FLOORS ARE SQUARE AND STRAIGHT BEFORE COMMENCING FINISH WORK. UNLEVEL TILES AND NON UNIFORM JOINT LINES ARE NOT ACCEPTABLE. LAYOUT TO MINIMIZE CUTS.
- CHECK MOISTURE DENSITY OF EXISTING SLAB.
- MOISTURE PROOFING MATERIALS MUST BE USED AS BACKING FOR FRP WALL PANELING AS WELL AS VERTICAL GYPSUM BOARD SURFACES SCHEDULED TO RECEIVE PAINT IN RESTROOMS AND OTHER MOISTURE SENSITIVE AREAS WHERE GYPSUM BOARD IS SPECIFIED AS WALL FINISH.
- USE SCHULTER KERDI SHOWER SYSTEM FOR THE SHOWERS, INCLUDING WALLS, FLOORS, DRAIN TRIM, ETC. CONTACT: JASON ECKARD, JECKARD@SCHULTER.COM 410 999 4490
- PROVIDE SOLID BLOCKING AT WALL MOUNTED FIXTURES OR TOILET ROOM ACCESSORIES. PROVIDE SOLID BLOCKING AT BATH/HANDICAP COUNTERS, HAND DRYERS, ETC. PROVIDE STAINLESS STEEL CHANNEL AT BACK OF TOILET ACCESSORIES THAT EXTEND ABOVE TILE WAINSCOT TO ENSURE FLUSH INSTALLATION.
- ALL TOILET VALVE CONTROL SHOULD BE A SINGLE LEVER TYPE WITH THE CENTER LINE WITHIN REACH. A RANGE OF NO LESS THAN 18" OR MORE FROM THE REAR EDGE OF SEAT AND WITH A 5 LB. MAXIMUM OPERATING FORCE. CONTROL 40" ABOVE SHOWER HEAD. PROVIDE SOLID BLOCKING AT TOILET VALVE CONTROL AND MINIMUM 1/4" CRANE OPENINGS. ALWAYS REFER TO LOCAL CODES. PROVIDE FLEXIBLE HAND HELD SPRAYER UNIT WITH HOSE IN ACCORDANCE WITH CURRENT ACCESSIBLE REQUIREMENTS.
- DO NOT OBSERVE COUNTERS OR TRIM MOUNTED ON CHAIRS ONTO SWING DOORS. SWING DOORS AND SHOWER ENCLOSURES ARE TO BE CONSTRUCTED FROM APPROVED SHATTER-RESISTANT MATERIALS. HINGED DOORS SHALL OPEN OUTWARDS. GLAZING USED IN DOORS AND SHOWER ENCLOSURES SHALL BE FULLY TEMPERED, LAMINATED, AND METAL FRAMED.
- IN ADDITION TENANT SHALL INSTALL A LANDLORD-APPROVED (SUCH APPROVAL NOT TO BE UNREASONABLY WITHHELD, CONDITIONED, OR DELAYED) STANDARD WATERPROOFING MEMBRANE ON THE CONCRETE SLAB FLOOR AND ALL EXPOSED CONCRETE SURFACES, INCLUDING WALLS IN THE WET AREAS, SUCH AS REST ROOMS, SHOWERS, AND ANY MOP SINK AREAS THAT ABUT AND SHARE A DEMISING WALL WITH ADJACENT SPACES. PRIOR TO INSTALLATION, TENANT SHALL SUBMIT DETAILS OF THE WATERPROOFING SYSTEM AND THE MANUFACTURER'S APPROVAL TO LANDLORD'S REPRESENTATIVE FOR APPROVAL (SUCH APPROVAL NOT TO BE UNREASONABLY WITHHELD, CONDITIONED, OR DELAYED).

SHEET NOTES

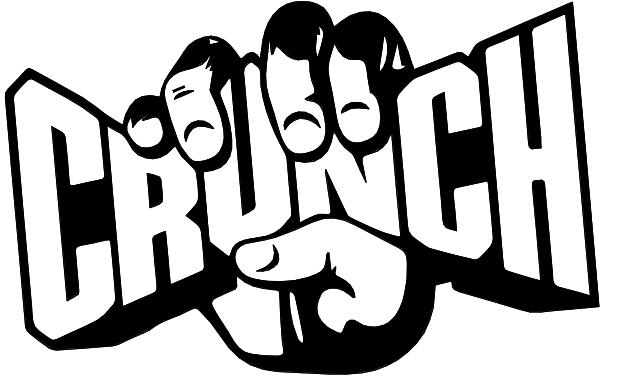
- FULL HEIGHT LOCKERS BY TENANT, G.C. TO SOLID BACKING AND CORNER FILLERS, TYP.
- LOCKER ROOM BENCH BOLTED TO CONCRETE SUB-FLOOR
- ACCESSIBLE LOCKER ROOM BENCH, SEE SHEET A001.1
- 30" X 48" ACCESSIBLE CLEAR SPACE
- ACCESSIBLE WATER CLOSET, GRAB BARS, TP DISPENSER, ETC, SEE SHEET A001.1
- ACCESSIBLE URINAL, SEE SHEET A001.1
- FLOOR DRAIN, SEE PLUMBING
- CUSTOM ACCESSIBLE SHOWER WITH 1/2" MAX. FINISH FLOOR TRANSITION, G.C. TO VERIFY R.O. SIZE PRIOR TO FRAMING, SEE SHEET A001.1, TYP.
- CUSTOM TILE SHOWER
- SHOWER CURTAIN ROD, G.C. TO PROVIDE SOLID BLOCKING
- WALL MOUNTED VANITY AT 2'-0" A.F. WITH SOLID SURFACE TOP
- SENSOR-OPERATED HAND DRYER, WITH STAINLESS STEEL SPLASH GUARD, G.C. TO PROVIDE POWER AND BACKING
- 2'-0" DEEP LAVATORY COUNTER MOUNTED AT 2'-0" A.F. WITH SOLID SURFACE TOP
- WALL MOUNTED MIRROR, SEE ELEVATIONS. BOTTOM OF REFLECTIVE SURFACE TO BE 40" MAX. A/F MIRROR TO BE MOUNTED DIRECTLY TO DRYWALL; NO TILE BEHIND MIRROR.
- WATER HEATERS, SEE PLUMBING PLANS. REQUIRED VENDOR RINNAI: CORPORATEPRICING@RINNAIUS
- CLOTHES WASHER/DRYER TO BE PROVIDED BY TENANT, G.C. TO PROVIDE POWER AND VENTILATION
- FLOOR-MOUNTED MOP SINK, G.C. TO INSTALL FRP ON WALLS UP TO 48" AFF AND EXTENDING 24" BEYOND SINK
- LOCKER ROOM TEMPERED GLASS PANEL, REFER TO CRUNCH CONSTRUCTION MANUAL FOR DETAILS
- G.C. TO PROVIDE AND INSTALL TRIM/ROULATOR TRIM TO CAP ALL TILE SURFACES, INCLUDING AS IN OUTSIDE CORNERS, TYP. VERIFY TRIM SPEC W/G/C PRIOR TO PROCUREMENT
- SS-1, SOLID VANITY SURFACE, G.C. TO INSTALL AND PROVIDE BACKING, 34" MAX ABOVE FINISH FLOOR
- BACK-LIT WALL-MOUNTED VANITY MIRROR, BOTTOM OF REFLECTIVE SURFACE TO BE 40" MAX. A/F MIRROR TO BE MOUNTED AT 54" AFF
- PHENOLIC PLATE, G.C. TO PROVIDE AND INSTALL SOLID BLOCKING IN WALL, TYP.
- SEAT COVER DISPENSER, SEE SHEET A001.1
- ACCESSIBLE SHOWER SEAT, SEE SHEET A001.1
- SHOWER GRAB BAR, SEE SHEET A001.1
- FRAMELESS SHOWER DOORS, G.C. TO VERIFY SIDELIGHT AND / OR
- LCD TV ON WALL, G.C. TO PROVIDE SOLID BLOCKING AND POWER, TYP. POSITION PER CLIENT DIRECTION.
- LINEAR TRENCH DRAIN, G.C. TO SLOPE TILE FLOOR TO DRAIN / BUILD UP MORTAR BED TO ACCOMMODATE DRAINAGE
- COAT AND ROBE HOOKS PROVIDED AND INSTALLED BY GC AT 5'-6" AFF TYP. AND AT 48" MAX AFF TYP AT ACCESSIBLE LOCATIONS

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SHEET TITLE
**ENLARGED LOCKER &
SHOWER AREA
ELEVATIONS**

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:	AS NOTED	
DATE:	10/27/2023	
PROJECT NO:	22-45	

A410.1

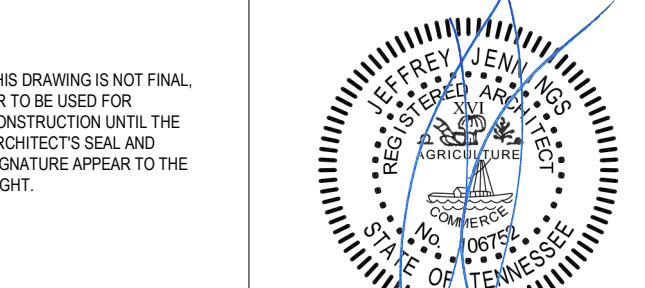


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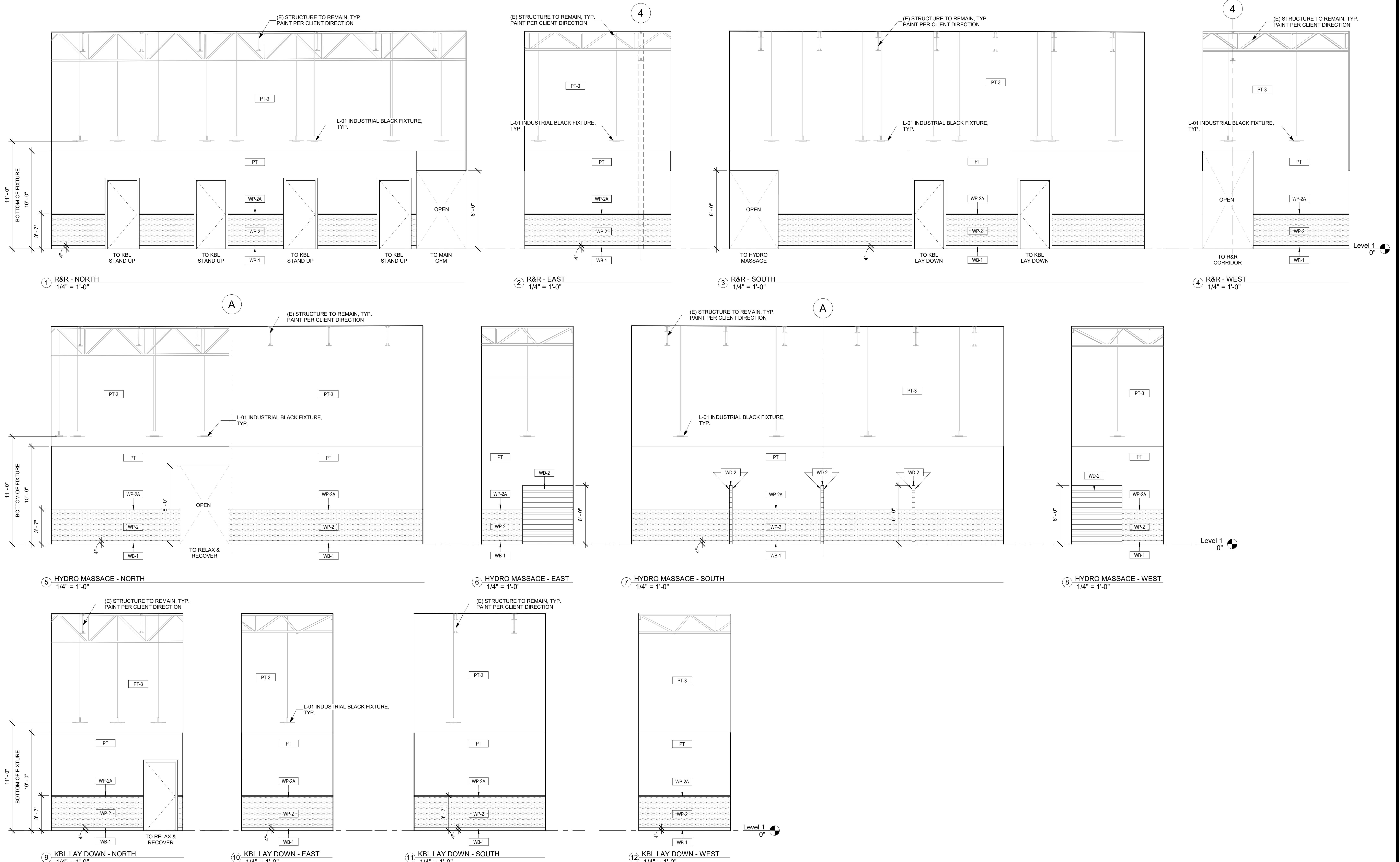
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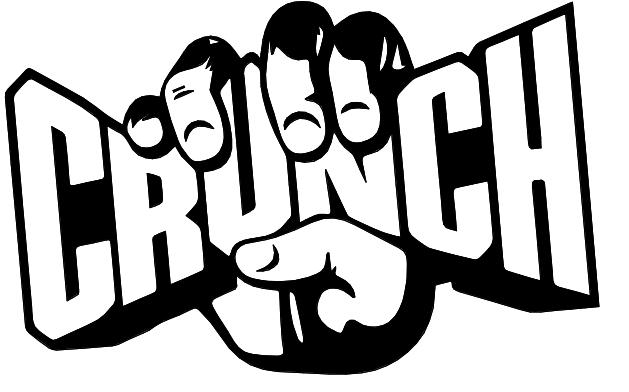
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ENLARGED RELAX & RECOVER AREA ELEVATIONS

NO.	DESCRIPTION	DATE
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PROJECT ARCHITECT	Jeff Jennings	
SCALE:	AS NOTED	
DATE:	10/27/2023	
PROJECT NO:	22-45	





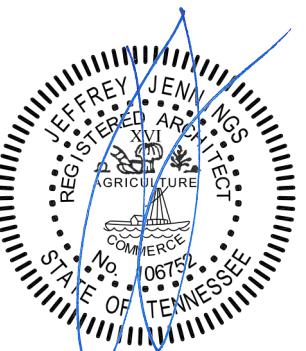
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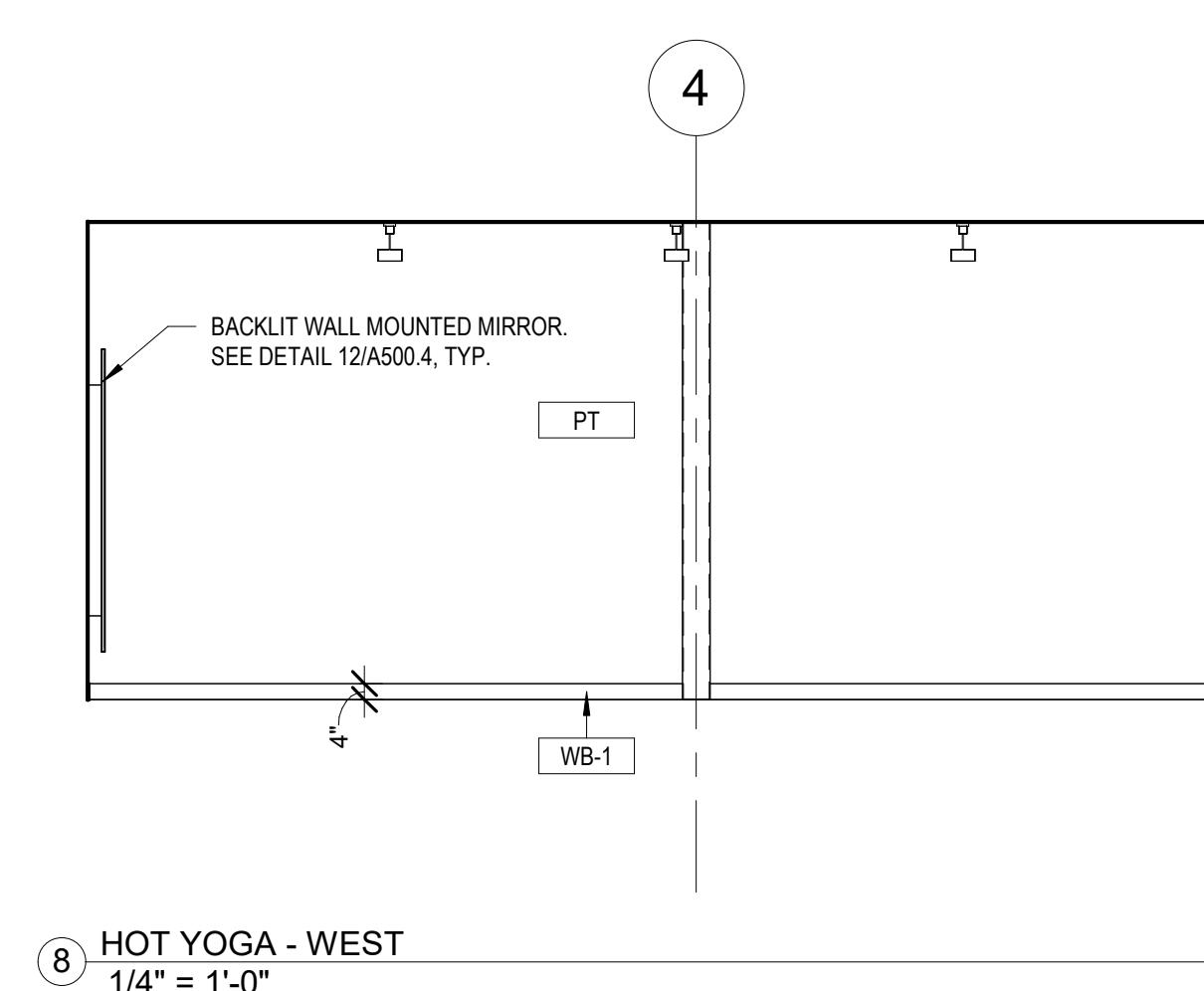
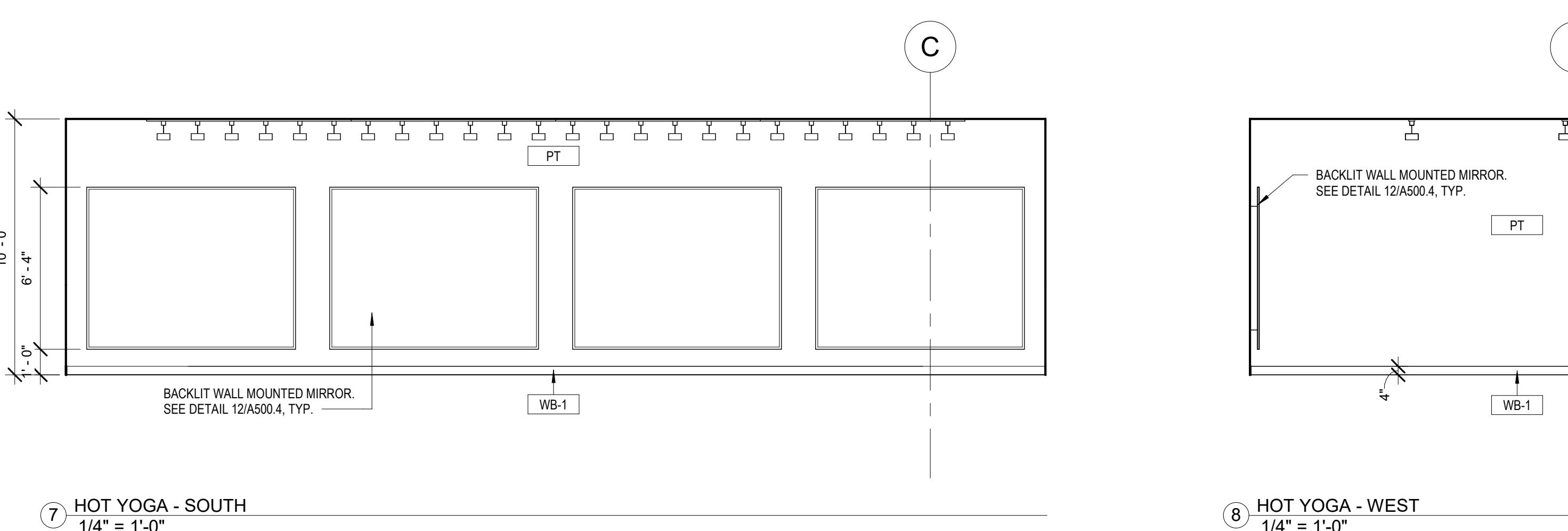
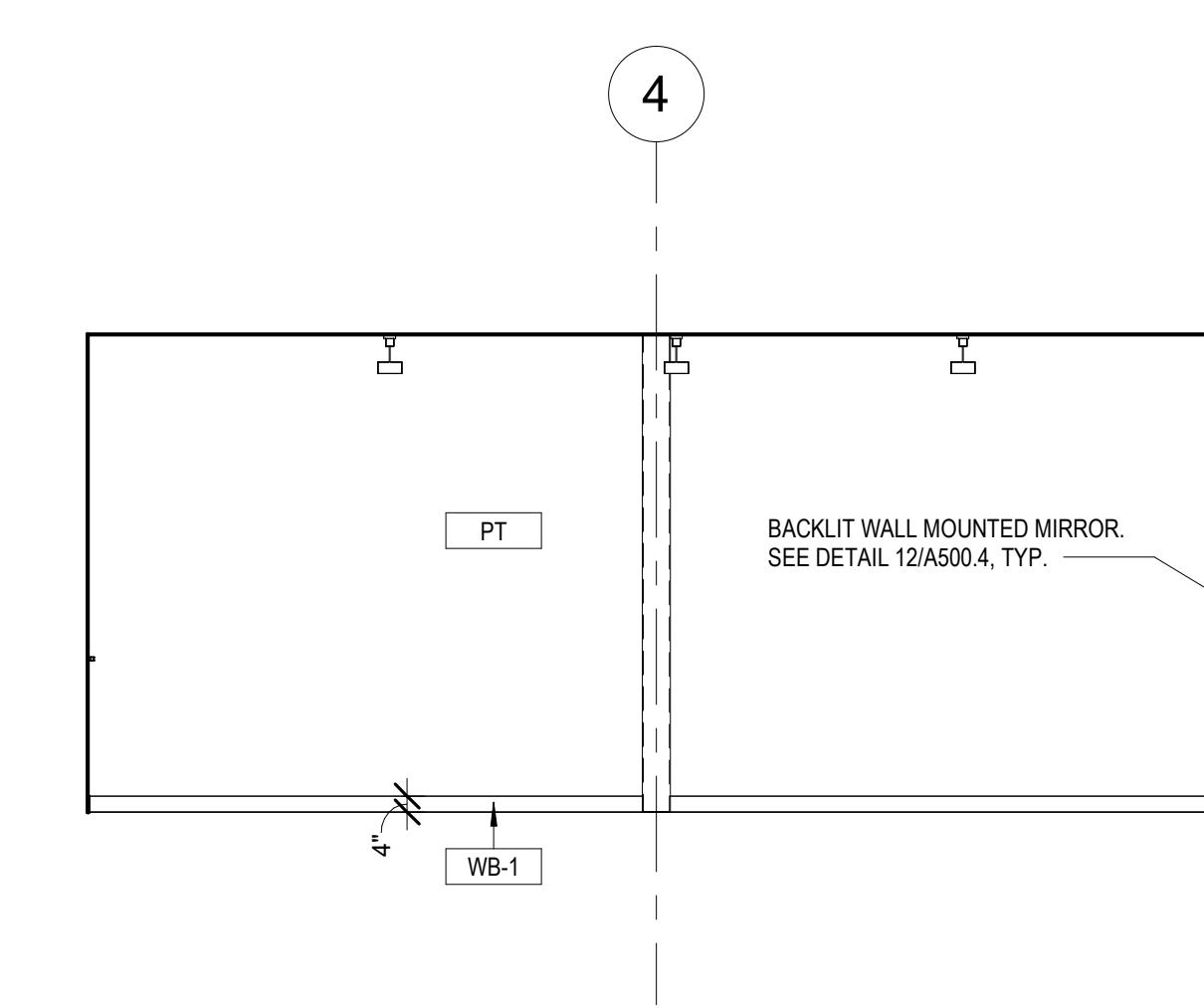
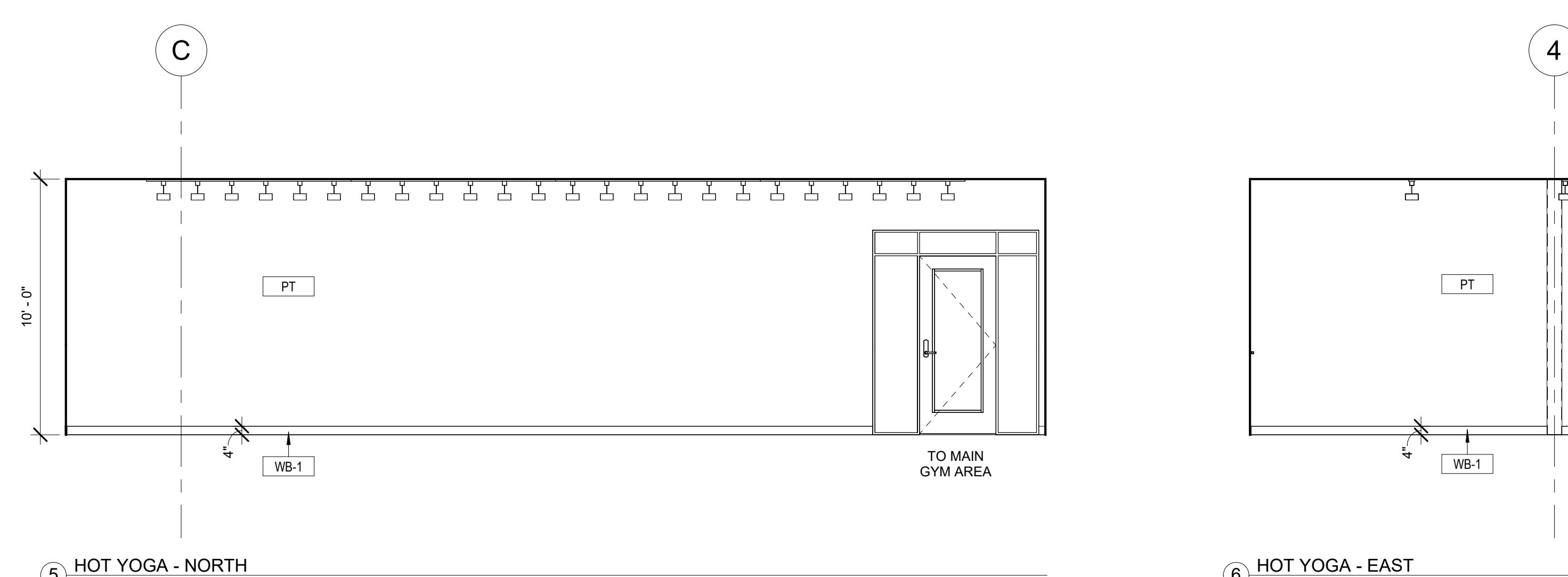
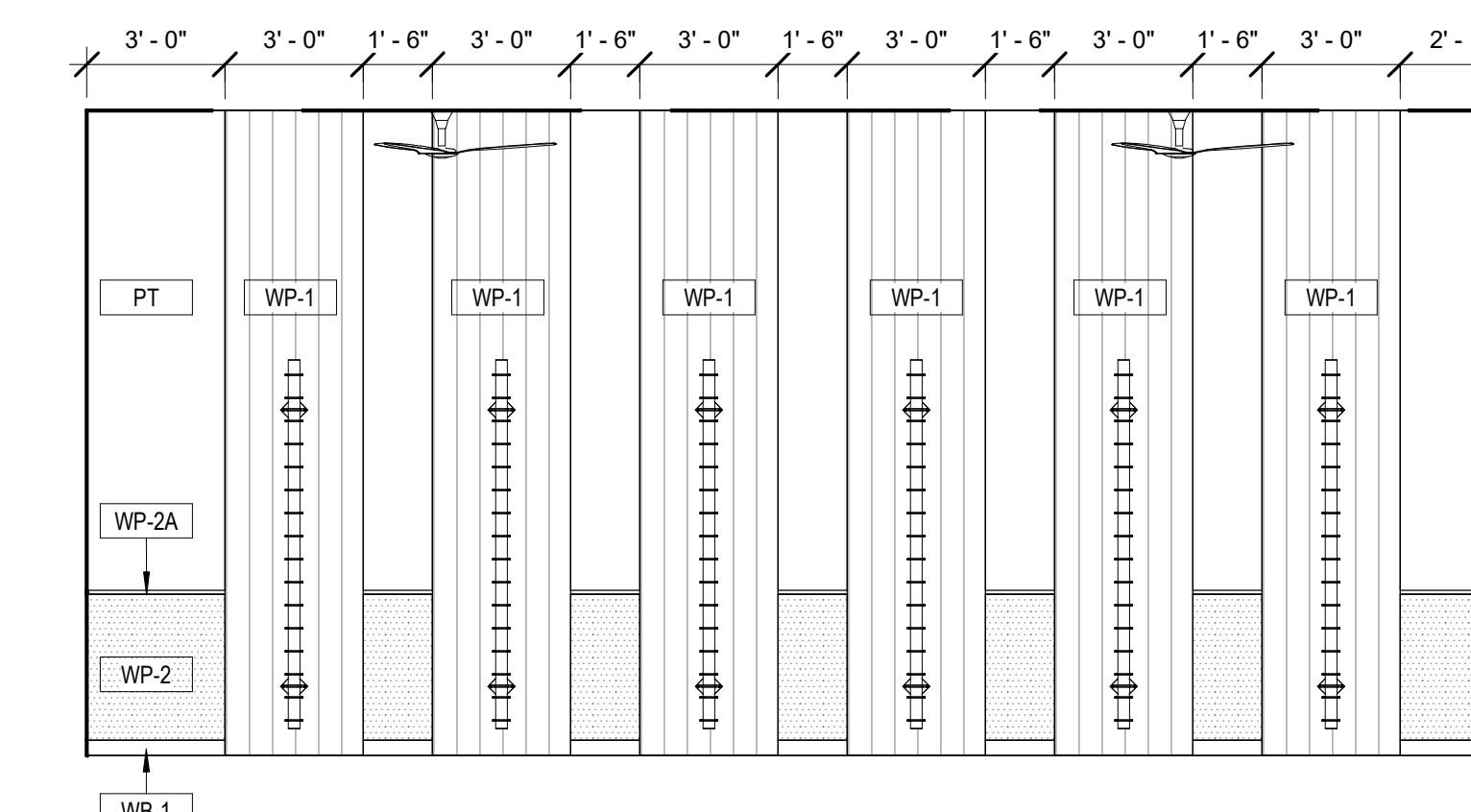
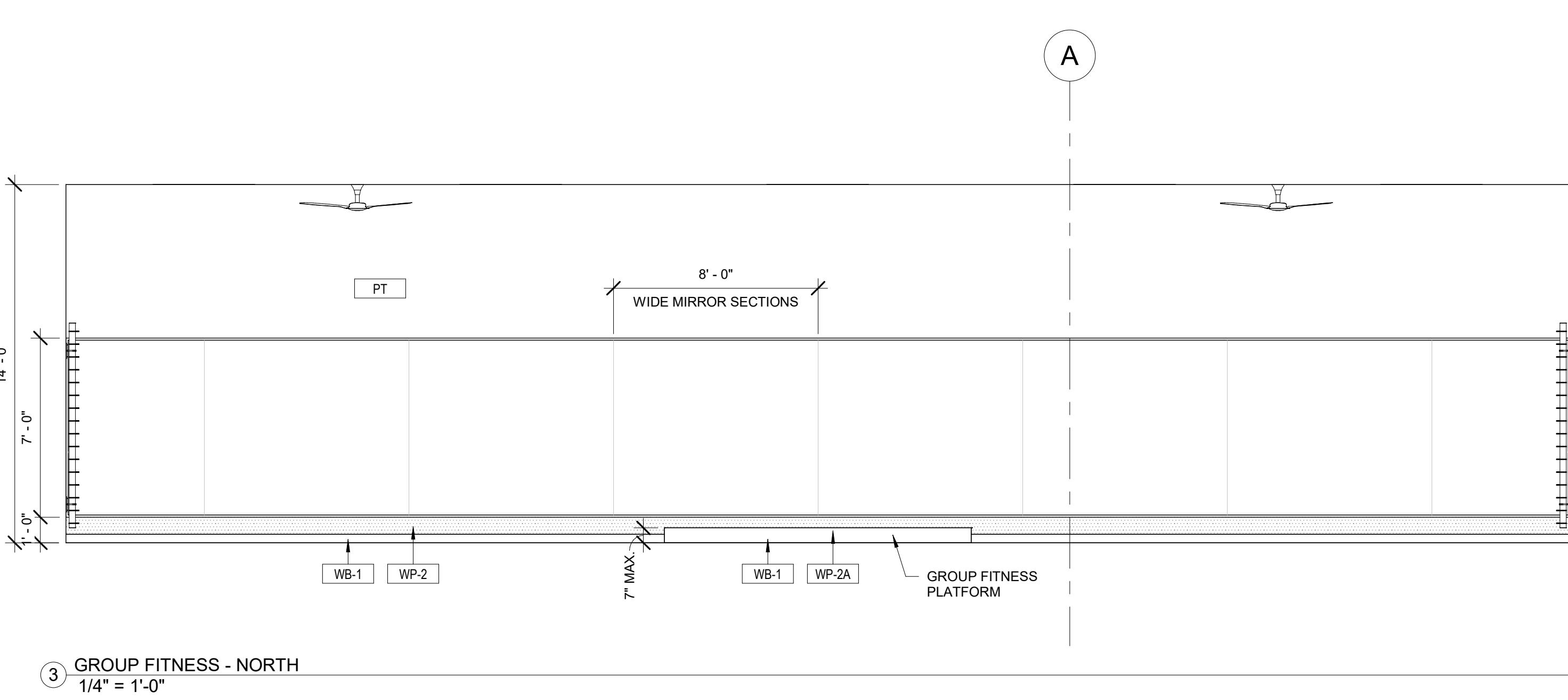
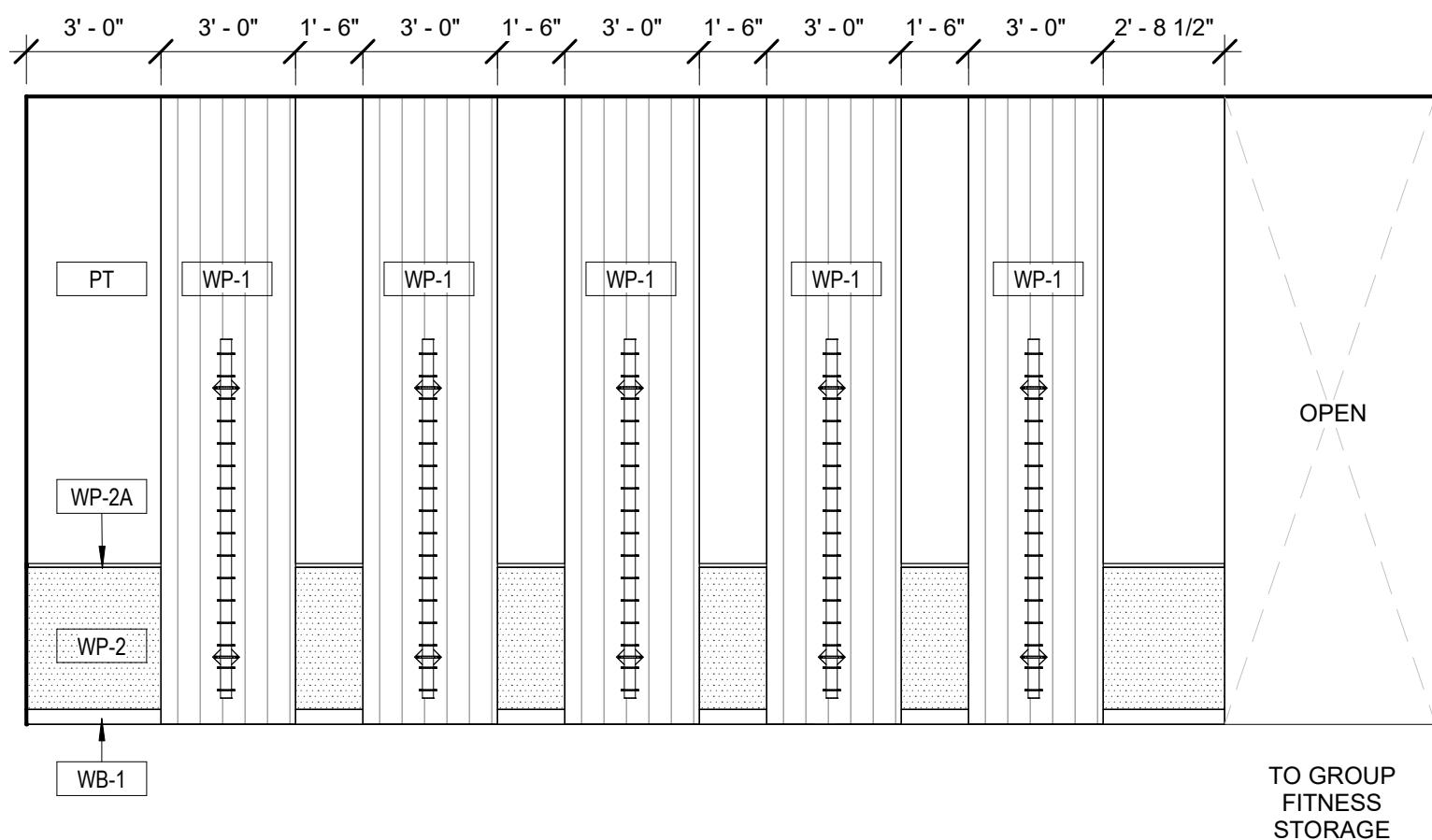
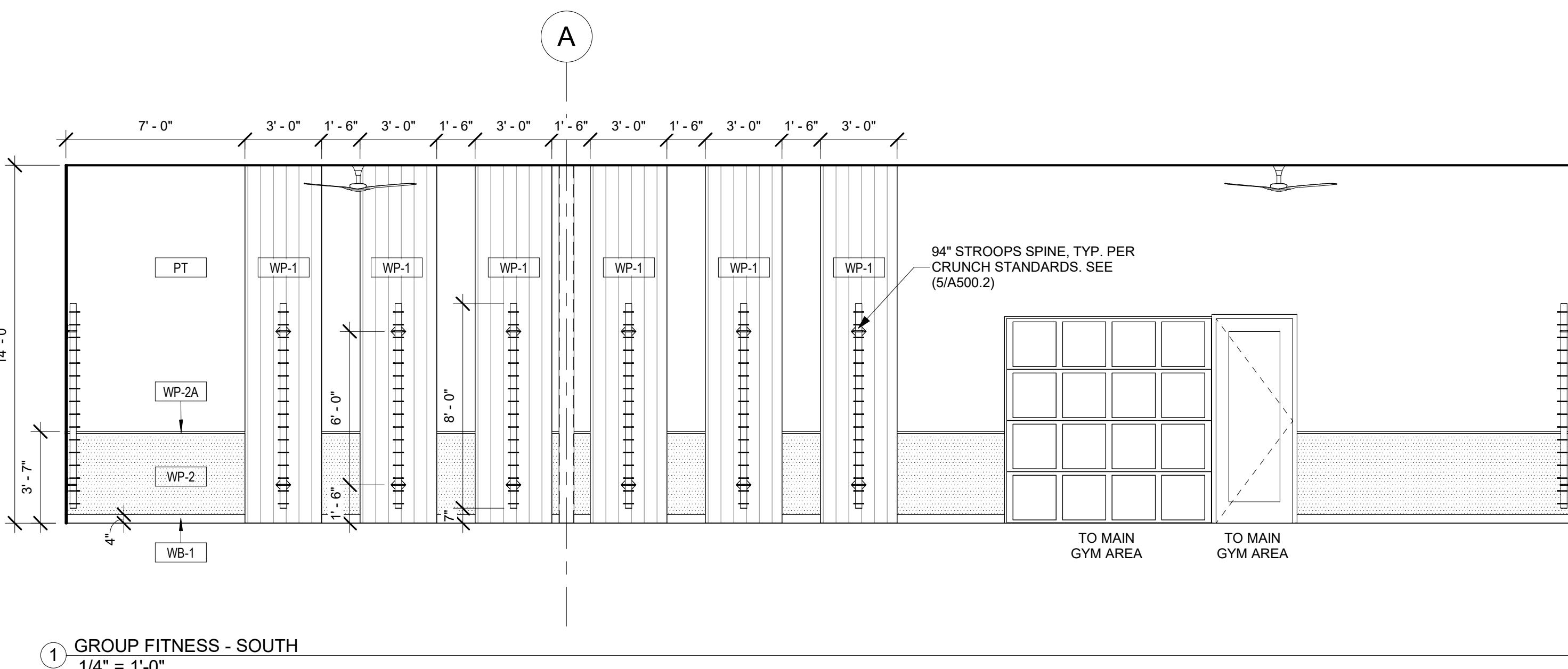
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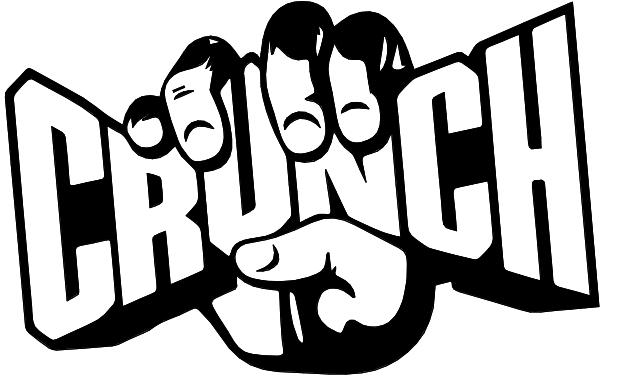
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SHEET TITLE		
ENLARGED INTERIOR ELEVATIONS		
NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:	AS NOTED	
DATE:	10/27/2023	
PROJECT NO:	22-45	

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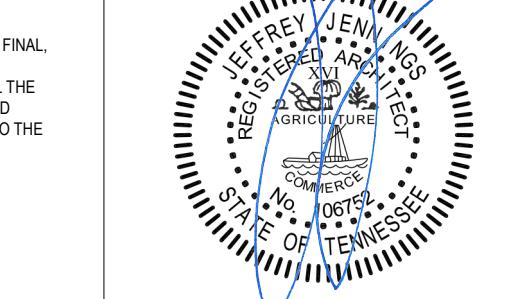
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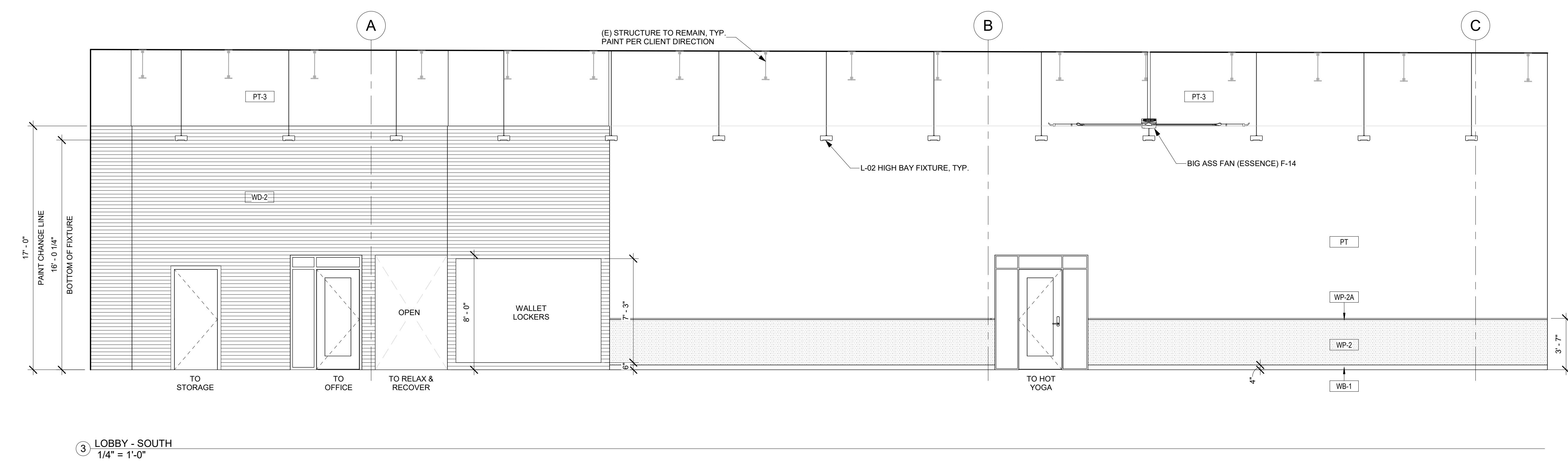
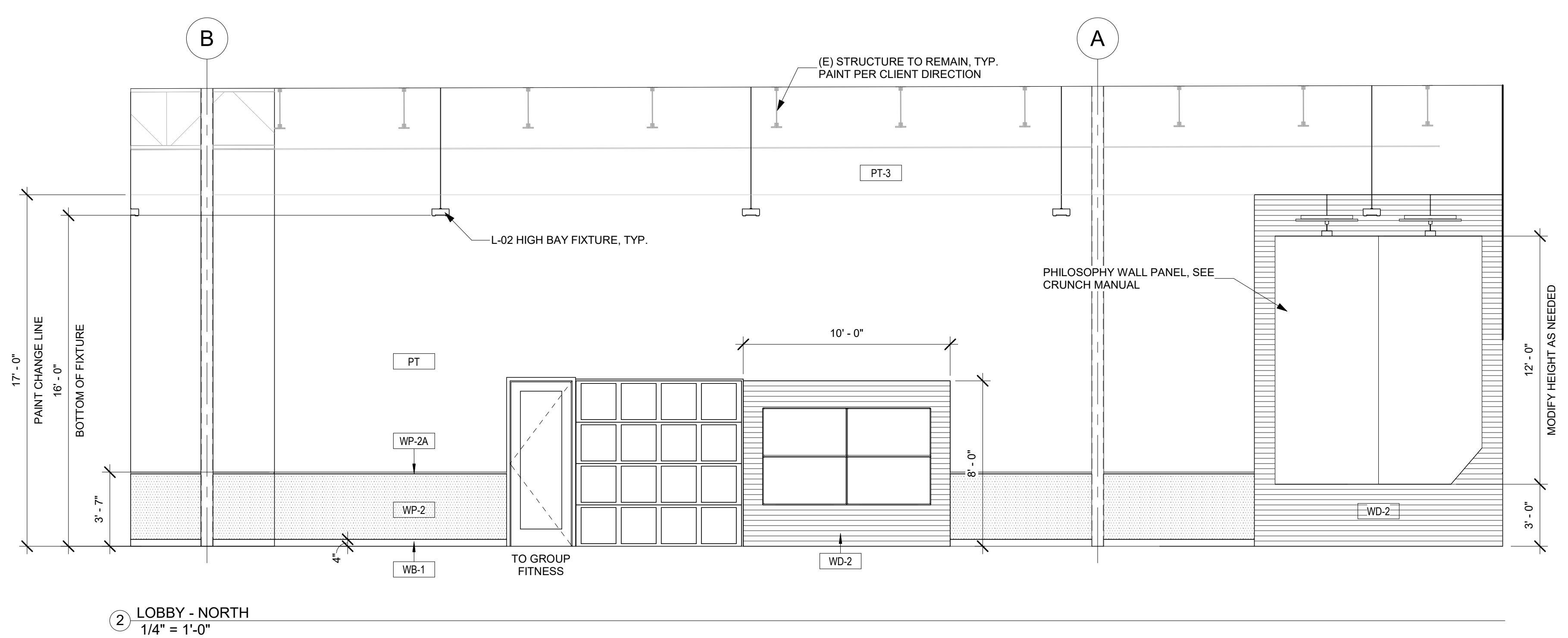
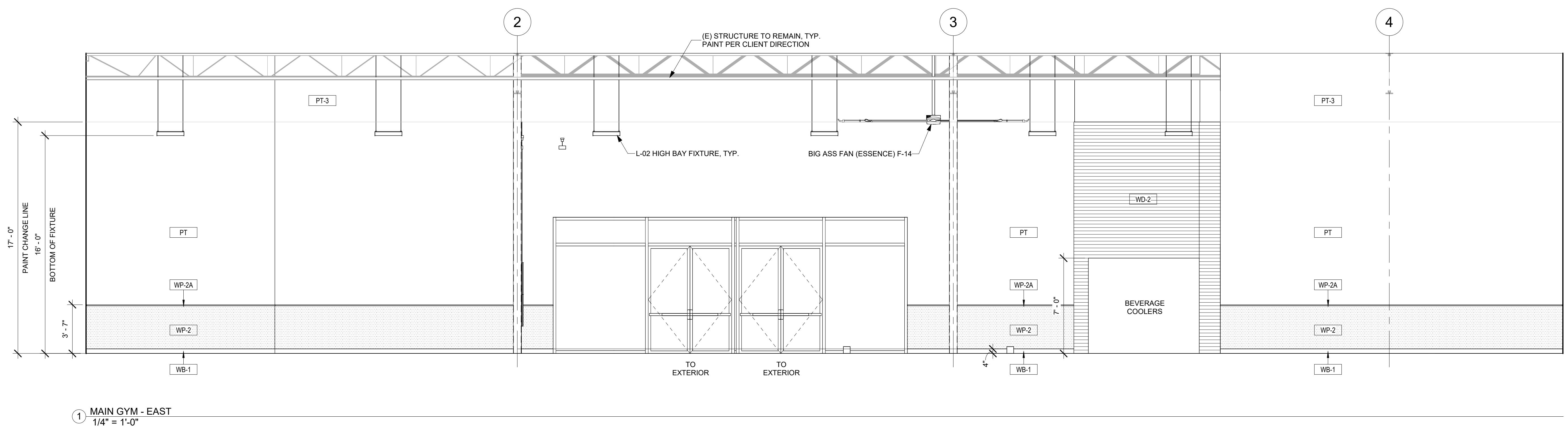
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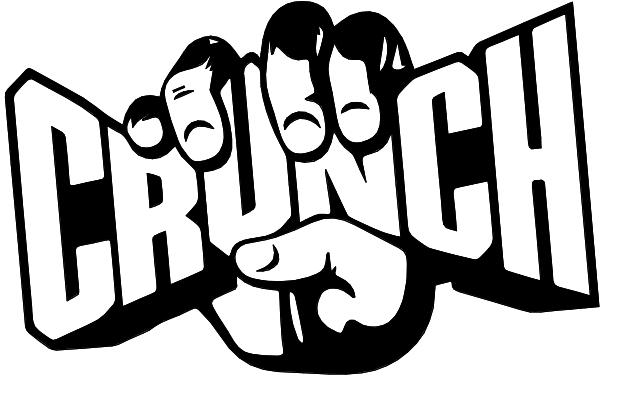
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SHEET TITLE
**ENLARGED INTERIOR
ELEVATIONS**

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:	AS NOTED	
DATE:	10/27/2023	
PROJECT NO:	22-45	

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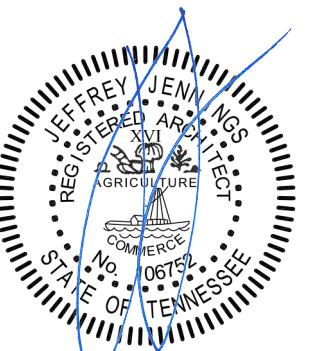
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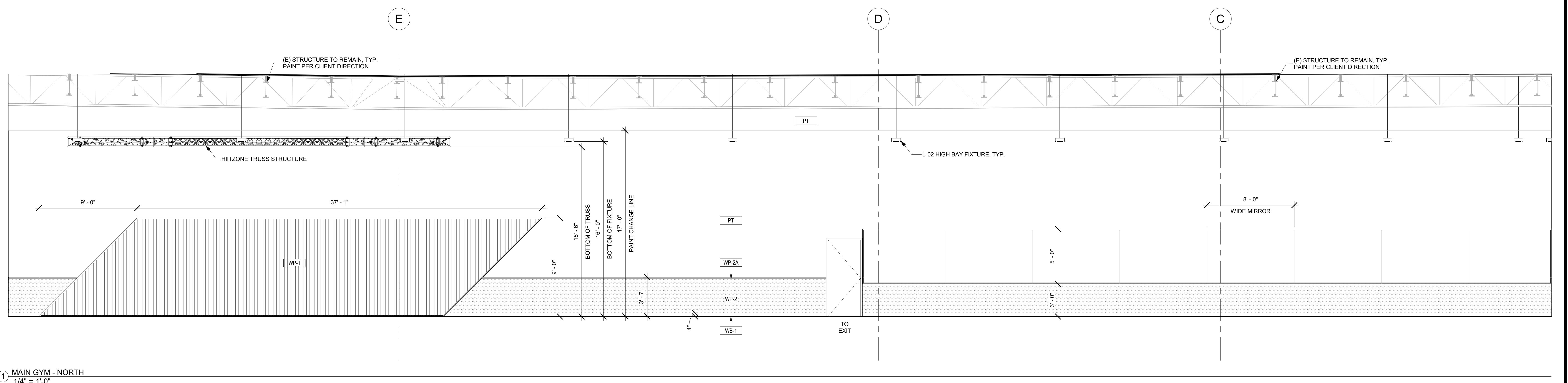
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APN: 097/000/13000

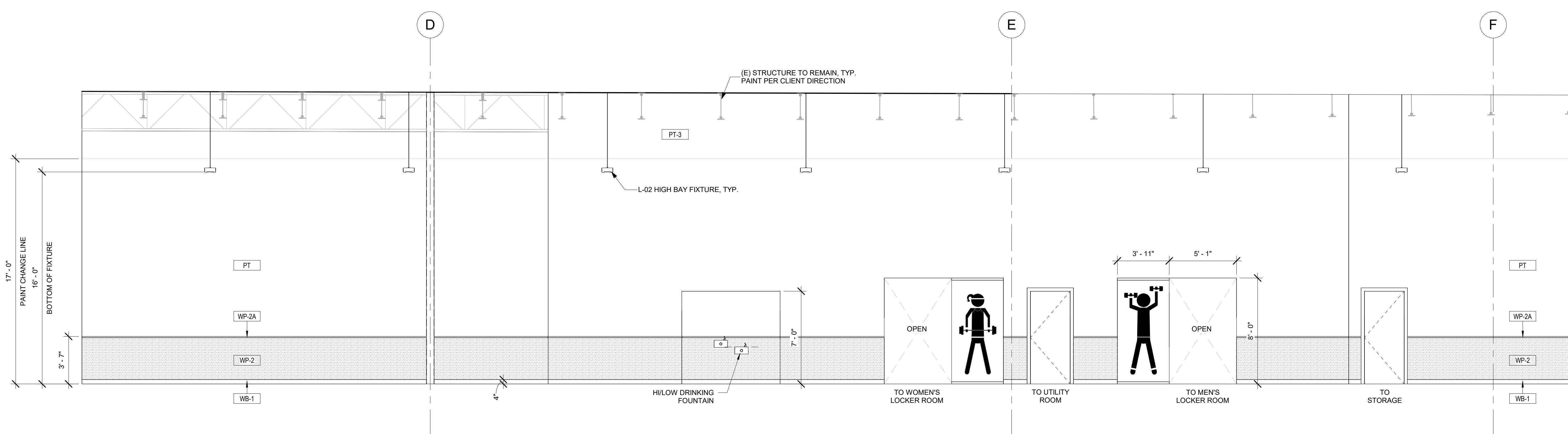
SHEET TITLE
**ENLARGED INTERIOR
ELEVATIONS**

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:	AS NOTED	
DATE:	10/27/2023	
PROJECT NO:	22-45	

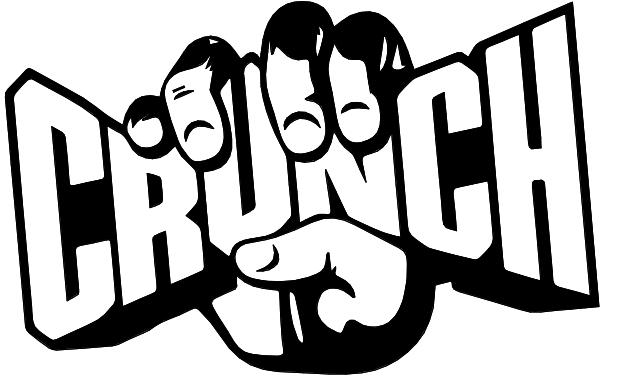
A410.5



① MAIN GYM - NORTH
1/4" = 1'-0"



② MAIN GYM - SOUTH
1/4" = 1'-0"



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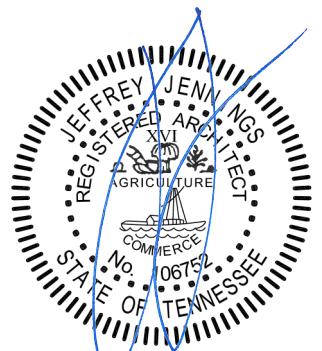
JPLUS ARCHITECTS INC.
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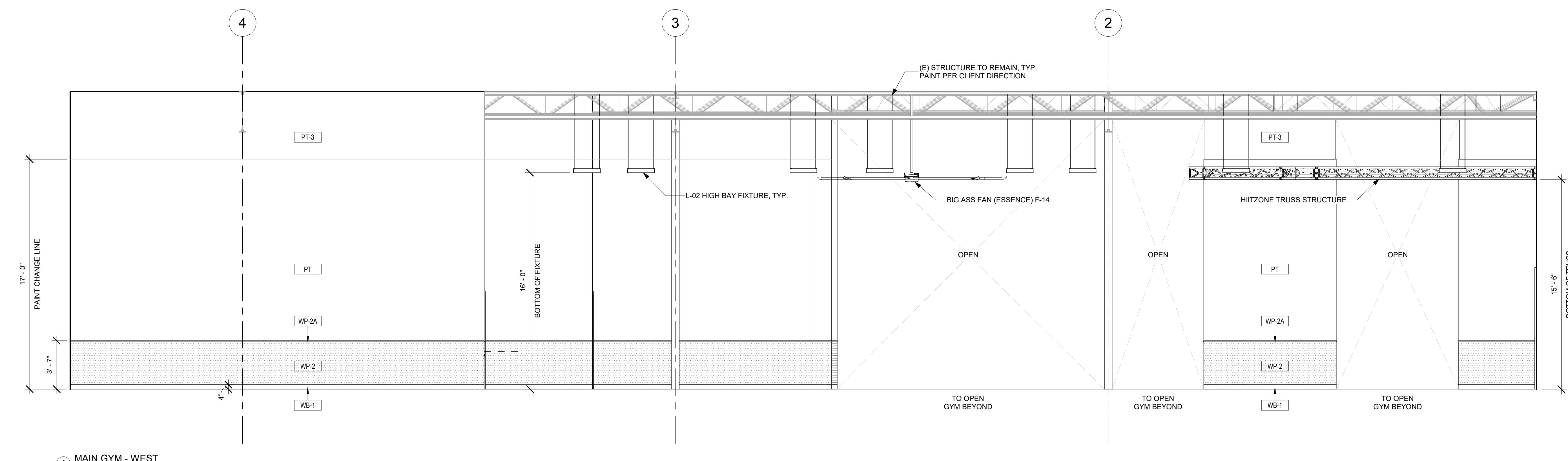
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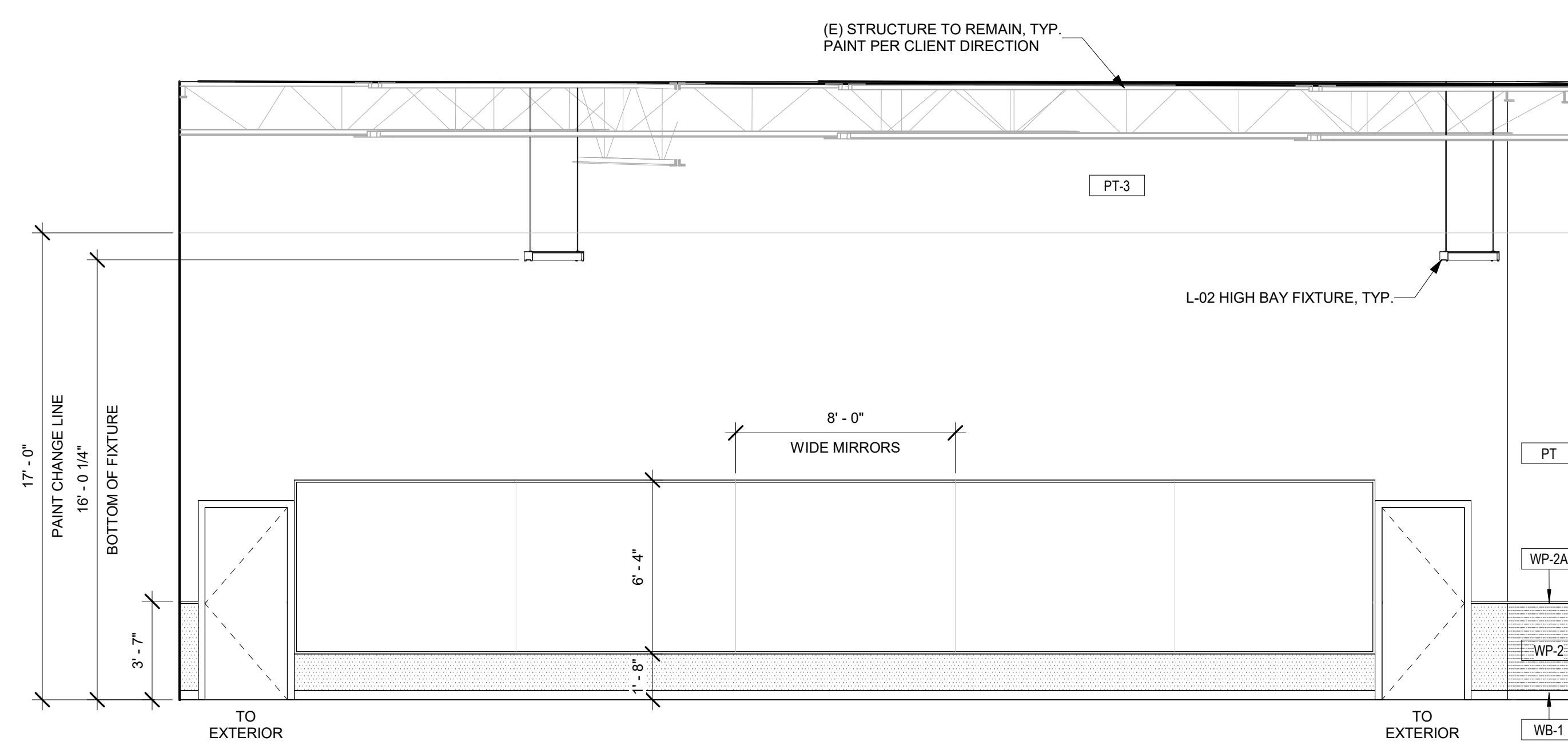
CRUNCH FITNESS
3634 BELL ROAD
NASHVILLE, TN 37214
CONSTRUCTION DRAWINGS
APN: 09700013000

NO.	DESCRIPTION	DATE
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A410.6



① MAIN GYM - WEST
1/4" = 1'-0"



③ MAIN BACK GYM - NORTHWEST
1/4" = 1'-0"

SHEET TITLE
ENLARGED INTERIOR ELEVATIONS

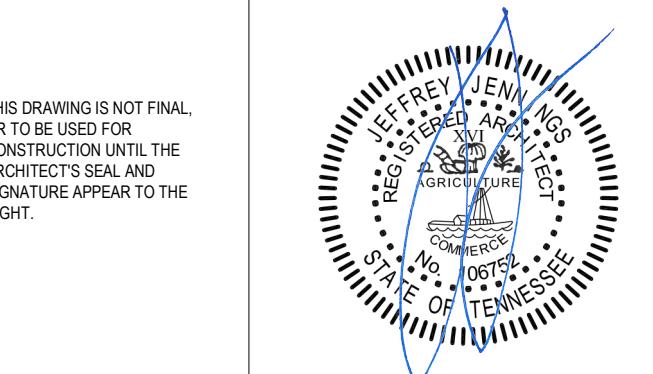
CRUNCH

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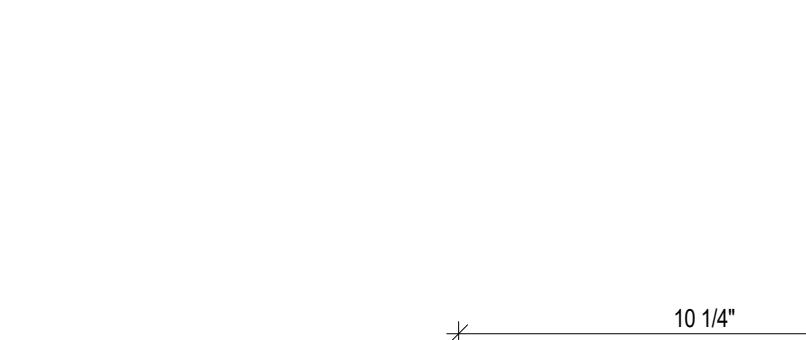
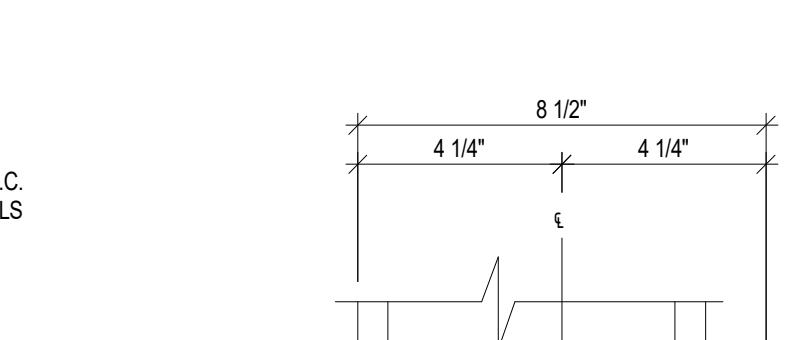
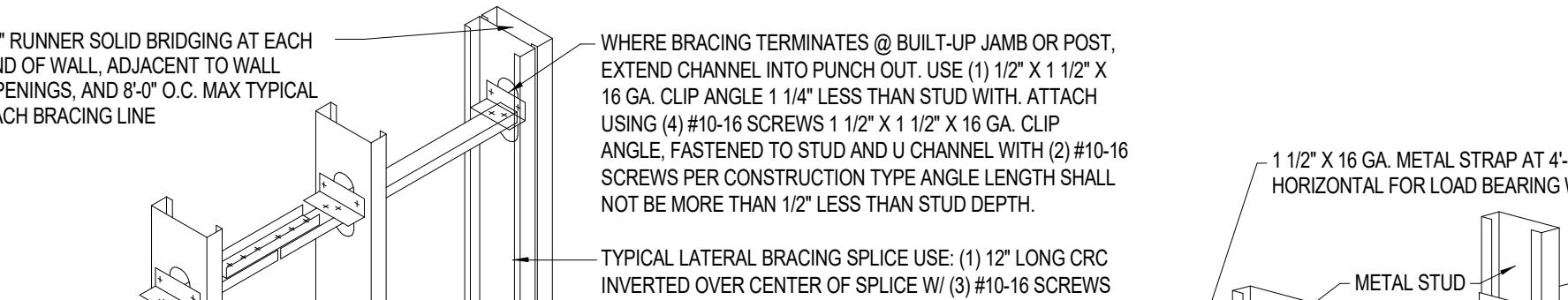
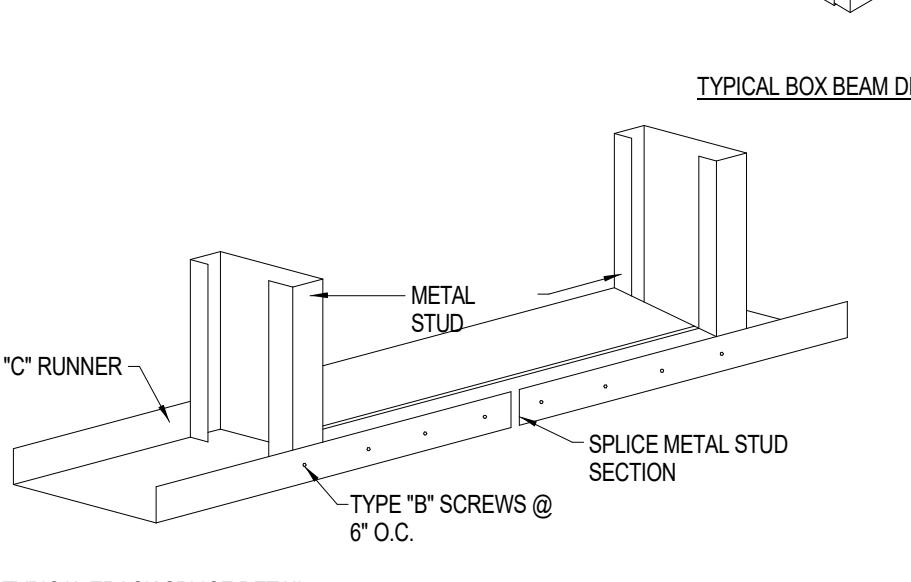
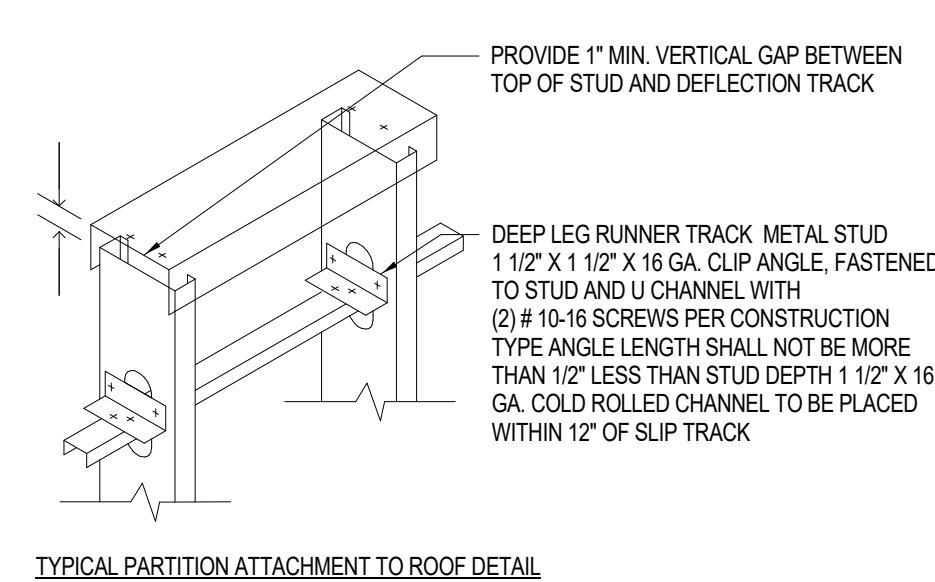
1 WALL TYPE DETAILS

3/4" = 1'-0"

METAL STUD ATTACHMENT SCHEDULE
1. ALL 6" TO 6" METAL STUDS USE (5) TYPE "B" SCREWS.
2. ALL 6" X 3/8" METAL STUDS USE (4) TYPE "B" SCREWS.
3. ALL 3/8" METAL STUDS USE (4) TYPE "B" SCREWS.
4. SEE SCHEDULE FOR SIZES

METAL SCREW SCHEDULE
SCREW TYPE "A" = 12-24 X 1 1/4" HWH TEK S/S
SCREW TYPE "B" = 10-16 X 3/4" HWH TEK S/S
SCREW TYPE "C" = 12-24 X 3/4" HWH TEK S/S
ALL SCREWS BY BUILDING FASTENERS INC. OR EQUAL

SEE DEFLECTION TRACK DETAILS FOR
CONFIGURATION OF DEEP LEG AND FIRE
RATED DEFLECTION TRACKS

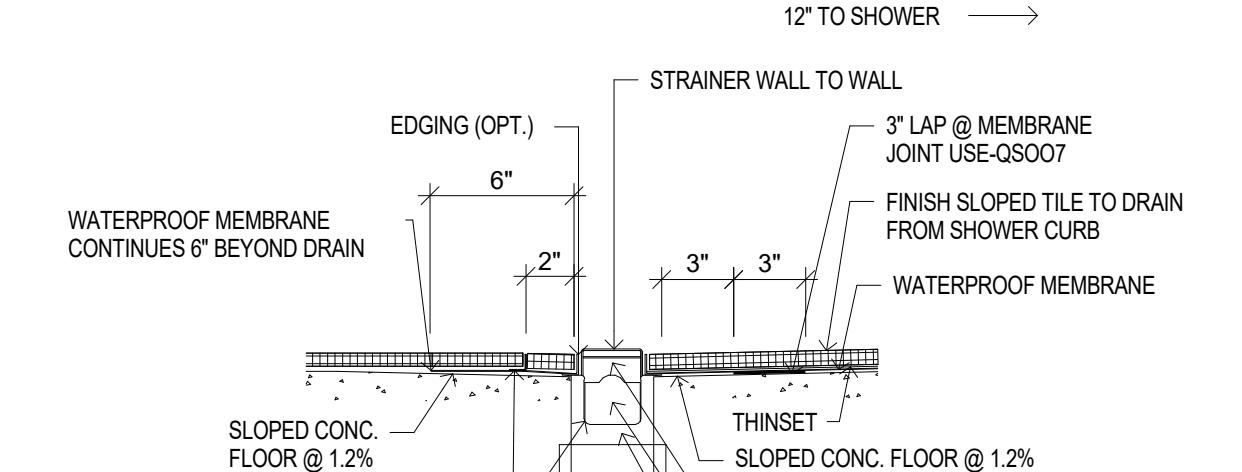


TYPICAL PARTITION ATTACHMENT TO ROOF DETAIL

TYPICAL TRACK SPLICE DETAIL

2 TYPICAL PARTITION FRAMING DETAILS

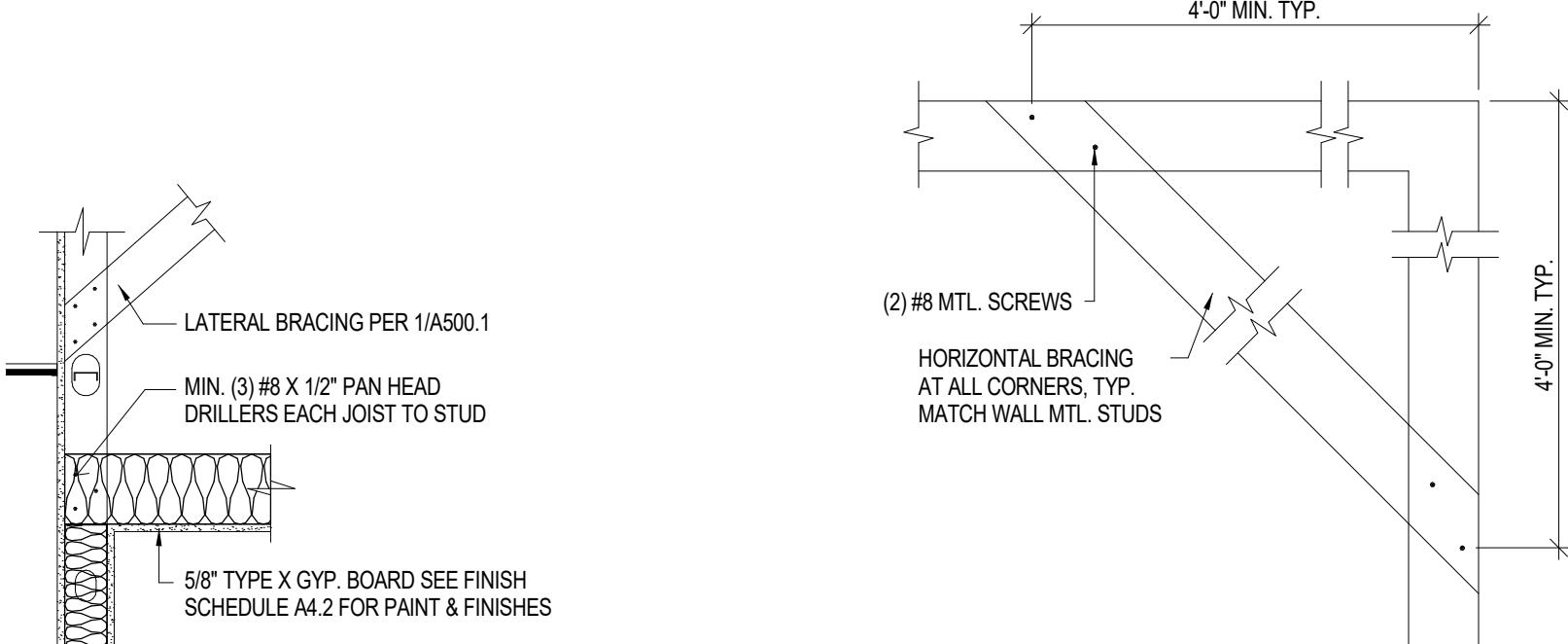
3/4" = 1'-0"



INTERIOR PARTITION CLEAR SPAN LIMITS

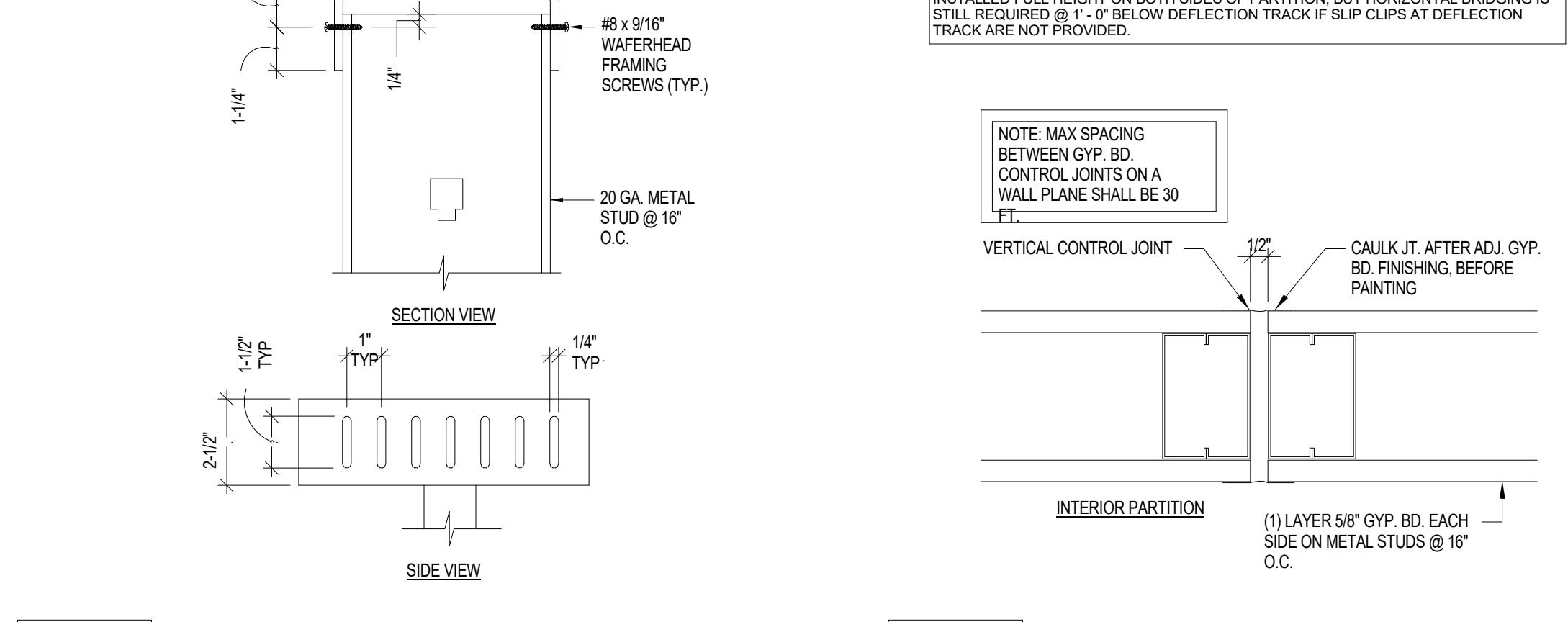
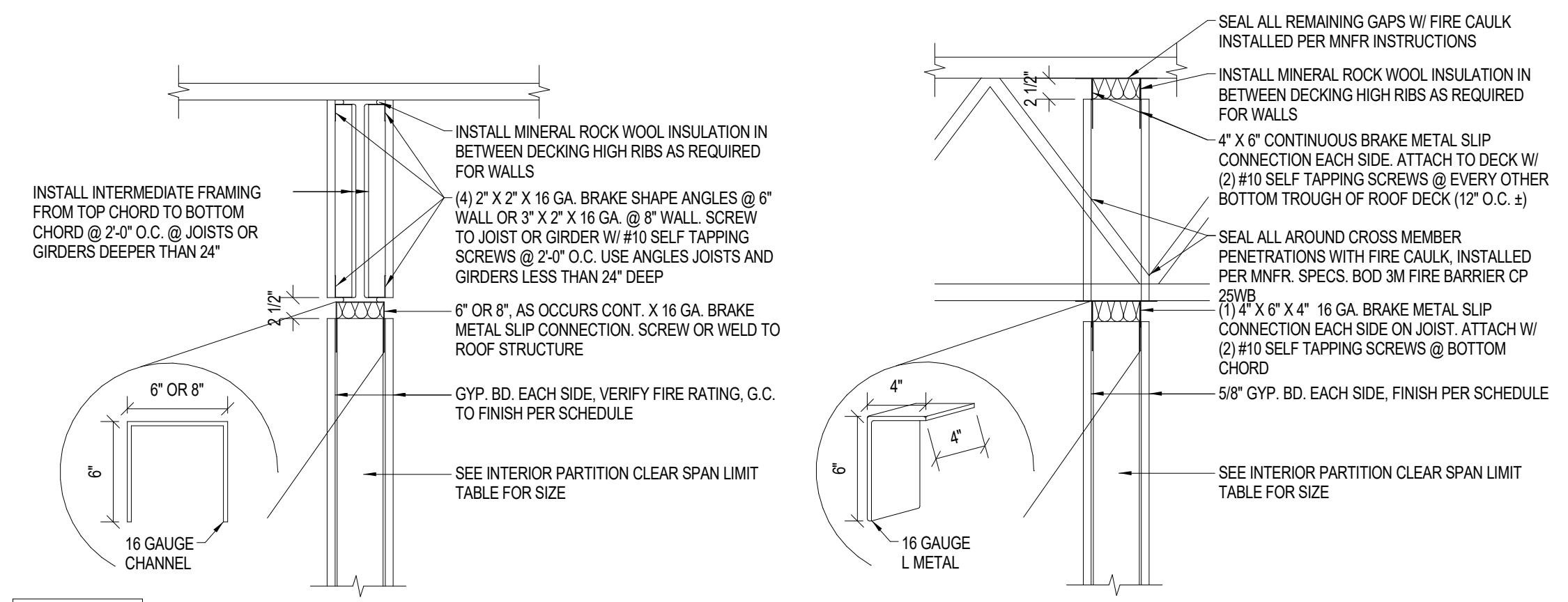
STEEL STUD PRODUCT	STEEL STUD LENGTH	GAUGE OF STUD / THICKNESS (IN MILS)	SPACING	MAXIMUM HEIGHT
362S162-18	3 - 5/8"	25/18	2" - 0" O.C.	11' - 6"
400S162-18	4"	25/18	2" - 0" O.C.	12' - 7"
362S162-33	3 5/8"	20/33	2" - 0" O.C.	15' - 6"
400S162-33	4"	20/33	2" - 0" O.C.	16' - 8"
362S162-33	6"	20/33	2" - 0" O.C.	23' - 0"
362S162-43	3 5/8"	18/43	2" - 0" O.C.	17' - 0"
400S162-43	4"	18/43	2" - 0" O.C.	18' - 3"
600S162-43	6"	18/43	2" - 0" O.C.	25' - 2"
800S162-43	8"	18/43	2" - 0" O.C.	31' - 9"
362S162-54	3 - 5/8"	16/54	2" - 0" O.C.	18' - 2"
400S162-54	4"	16/54	2" - 0" O.C.	19' - 7"
600S162-54	6"	16/54	2" - 0" O.C.	27' - 1"
800S162-54	8"	16/54	2" - 0" O.C.	34' - 1"
362S162-68	8"	14/68	2" - 0" O.C.	19' - 4"
362S162-68	3 - 5/8"	14/68	2" - 0" O.C.	19' - 4"
400S162-68	4"	14/68	2" - 0" O.C.	21' - 0"
600S162-68	6"	14/68	2" - 0" O.C.	29' - 0"
800S162-68	8"	14/68	2" - 0" O.C.	36' - 7"

- CLEAR SPAN HEIGHTS ARE FROM INTERIOR WALL LIMITING HEIGHTS
NOVEMBER 2012 EDITION OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA)
PRODUCT TECHNICAL GUIDE 2012 AND ARE PROVIDED AS A GENERAL GUIDELINE.
VERIFY MAXIMUM ALLOWABLE CLEAR SPAN HEIGHT WITH METAL STUD MANUFACTURE.
- STUD GAUGE AND C.S. SPACING SHALL BE SELECTED ACCORDING TO CLEAR SPAN HEIGHT SCHEDULE U.N.O.
- HORIZONTAL BRIDGING IS NOT REQUIRED WHEN GYPSUM WALLBOARD IS INSTALLED FULL HEIGHT ON BOTH SIDES OF PARTITION BUT HORIZONTAL BRIDGING IS STILL REQUIRED @ 1/2" BELOW DEFLECTION TRACK IF SLIP CLIPS AT DEFLECTION TRACK ARE NOT PROVIDED.



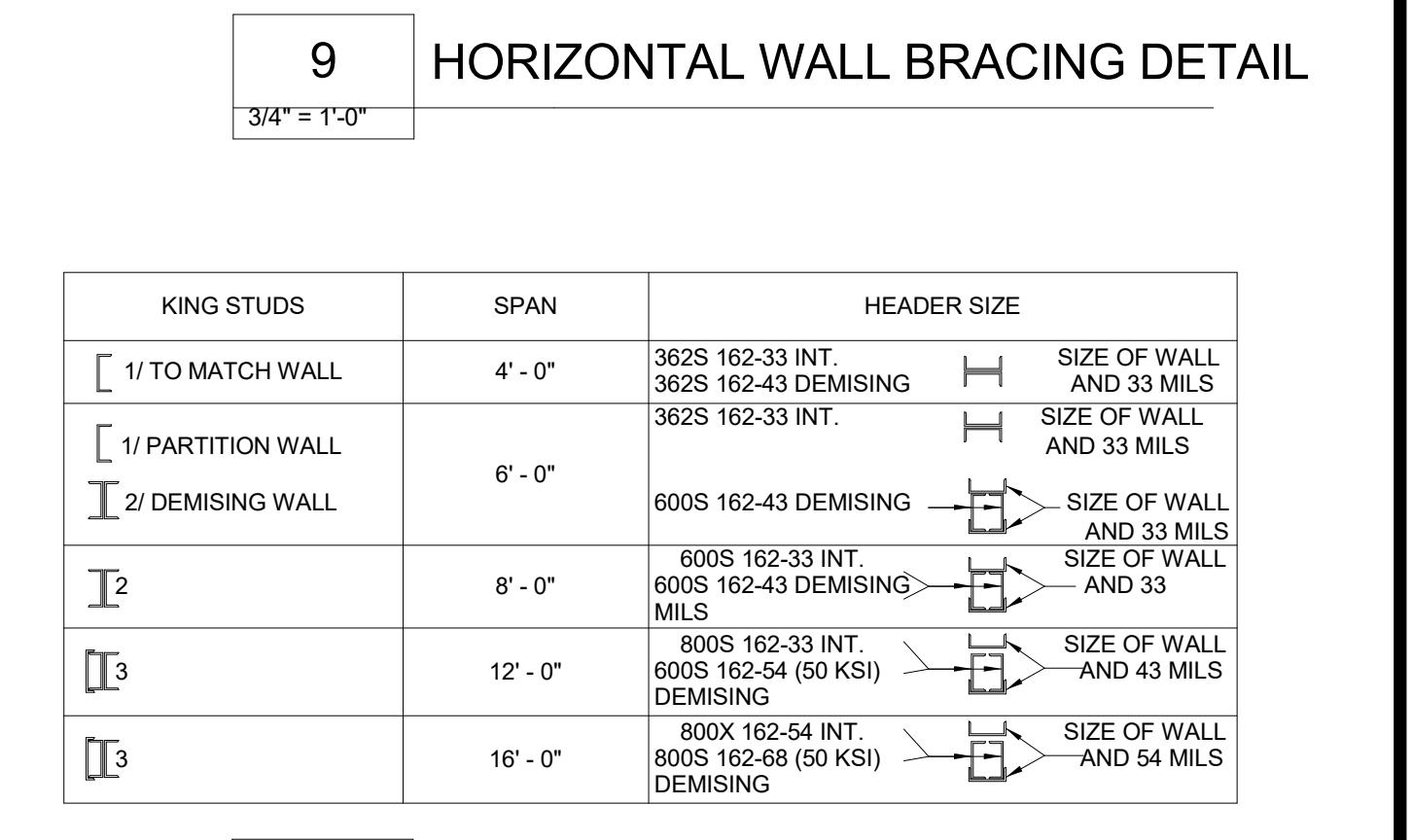
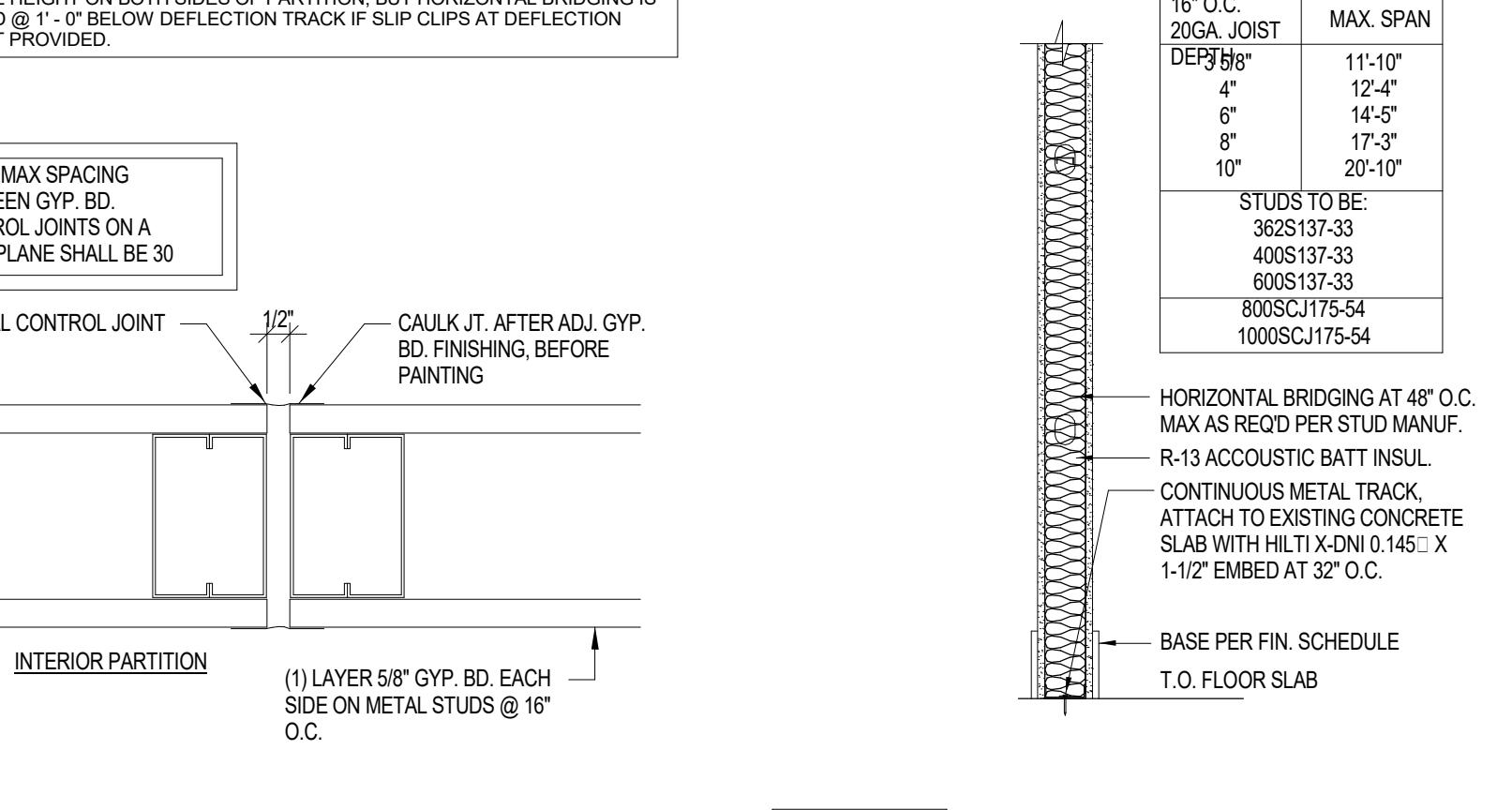
4 LINEAR TRENCH DRAIN DETAIL

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



5 FIRE STOP CONNECTION DETAILS

3/4" = 1'-0"



KING STUDS	SPAN	HEADER SIZE
I 1/ TO MATCH WALL	4' - 0"	362S 162-33 INT 362S 162-33 DEMISING
I 1/ TO PARTITION WALL	6' - 0"	362S 162-33 INT
I 2/ TO DEMISING WALL	8' - 0"	600S 162-43 DEMISING
I 2/	12' - 0"	600S 162-33 INT 600S 162-43 DEMISING
I 3/	12' - 0"	800S 162-54 (50 KSI) DEMISING
I 3/	16' - 0"	800S 162-54 (50 KSI) DEMISING

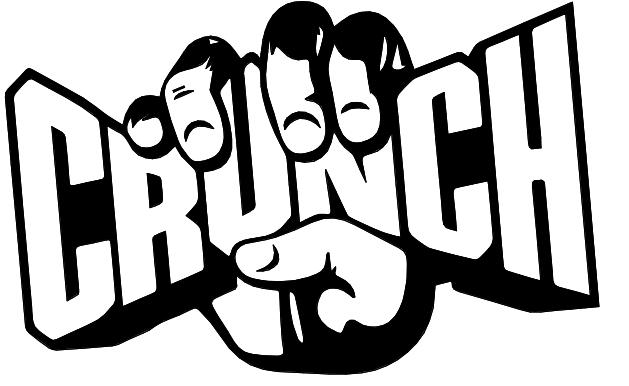
CRUNCH FITNESS

3634 BELL ROAD
NASHVILLE, TN 37214
APN: 09700013000

CONSTRUCTION DRAWINGS
APN: 09700013000

SHEET TITLE		
INTERIOR DETAILS		
NO.	DESCRIPTION	DATE
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SCALE:	AS NOTED	
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A500.1



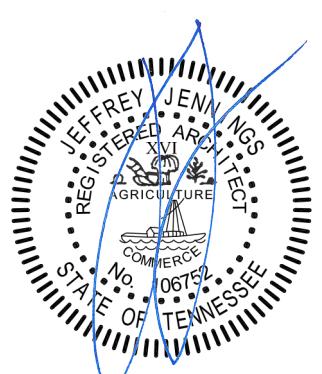
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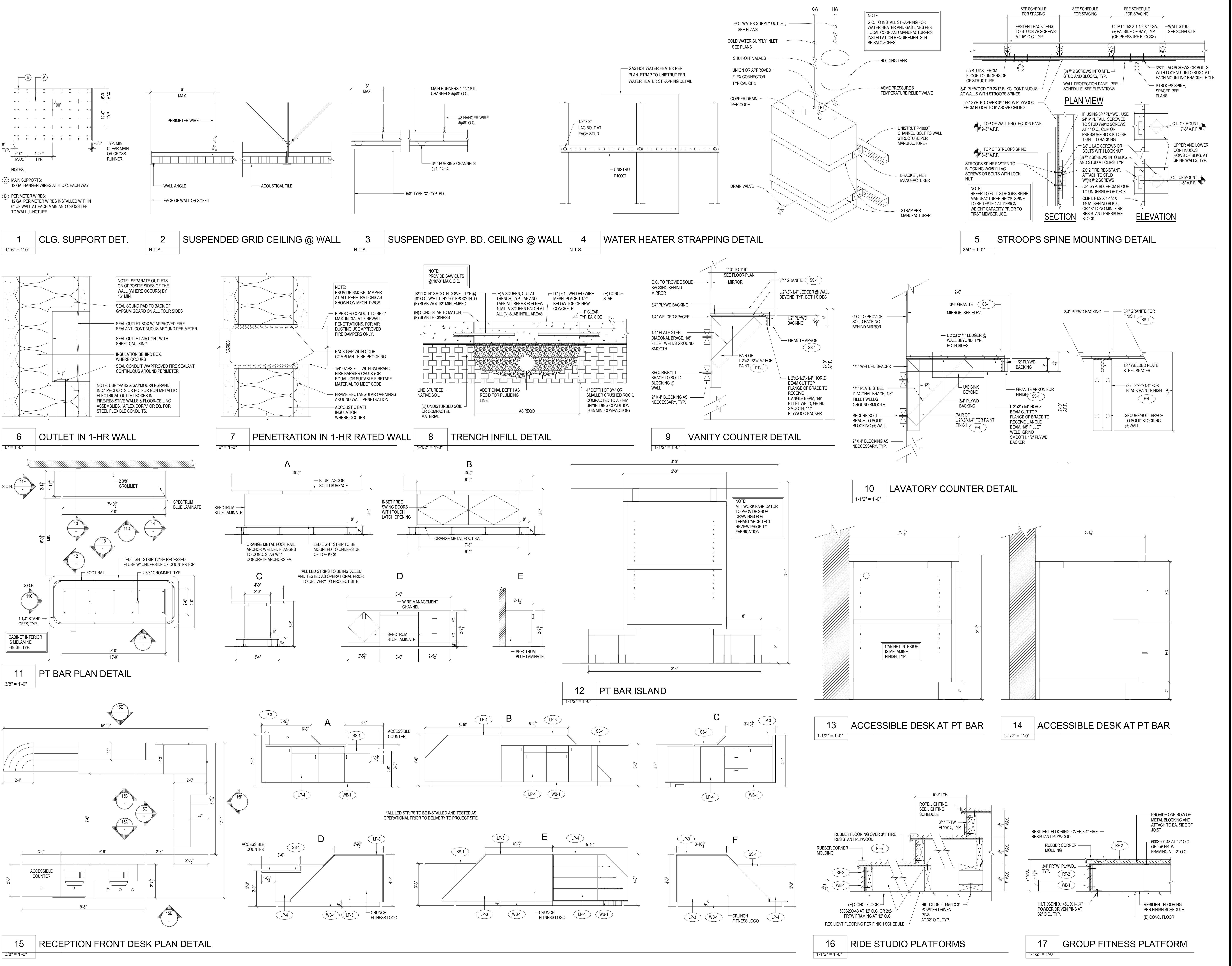
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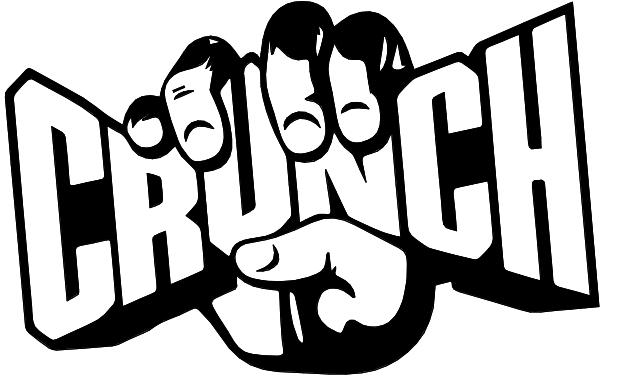
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A500.2



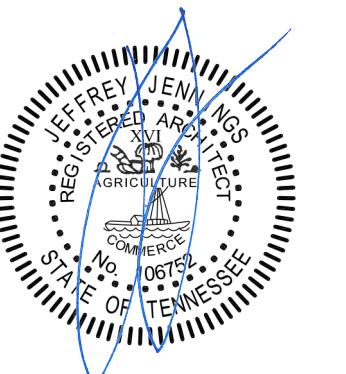


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CRUNCH FITNESS

3634 BELL ROAD

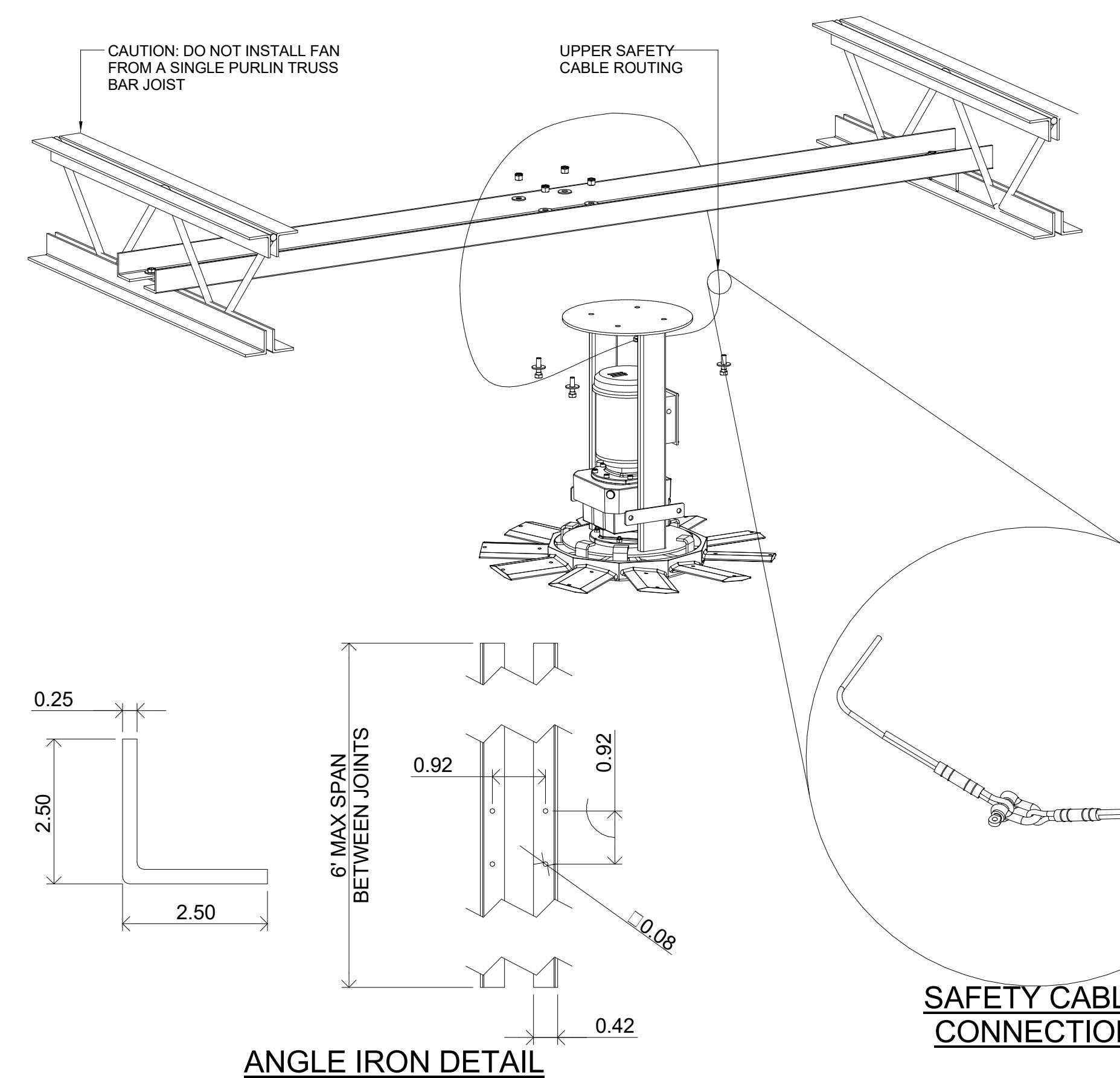
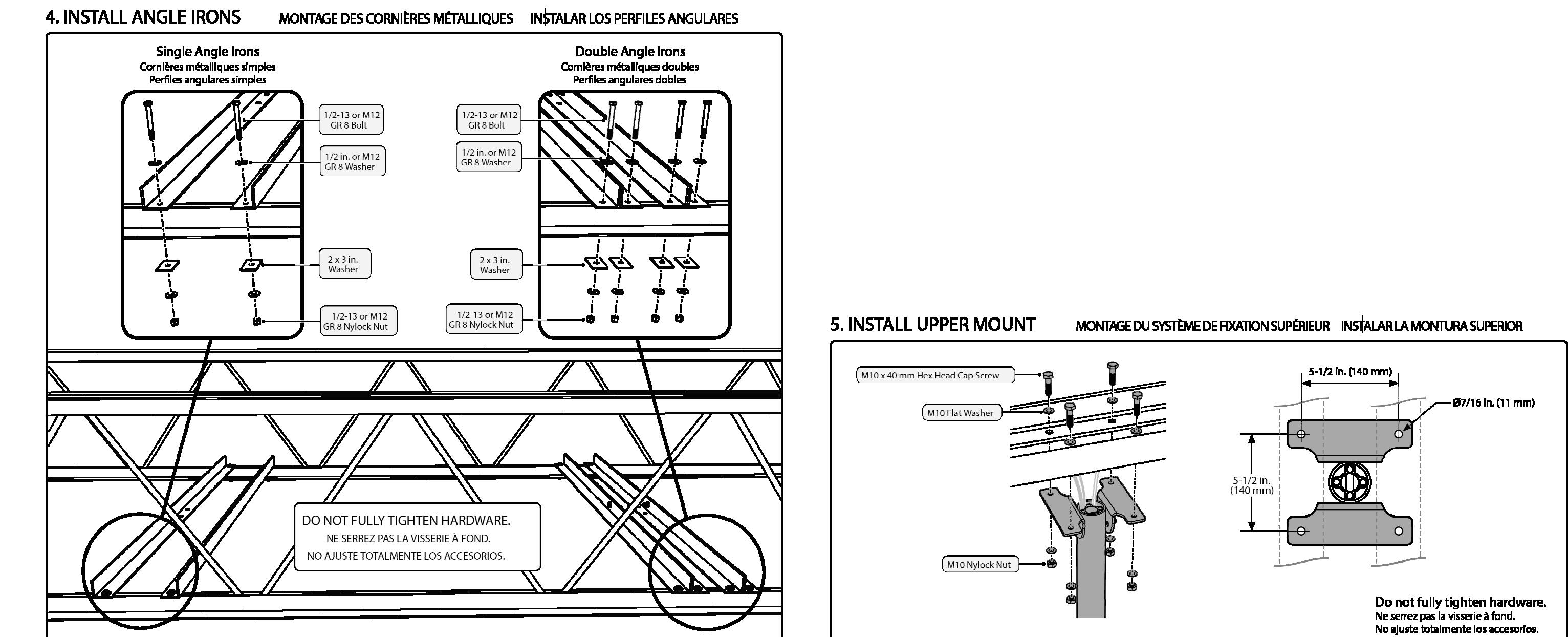
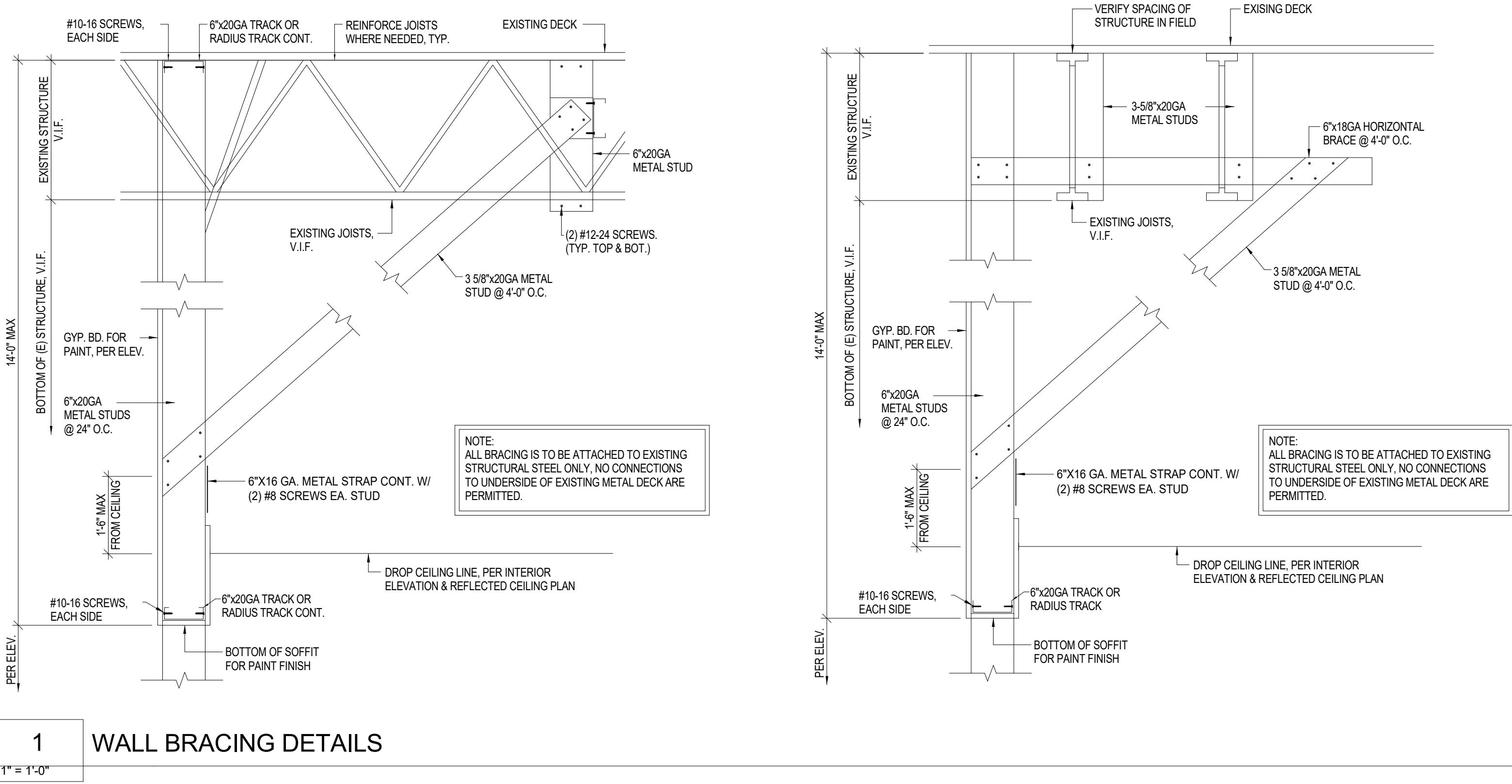
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CONSTRUCTION DRAWINGS

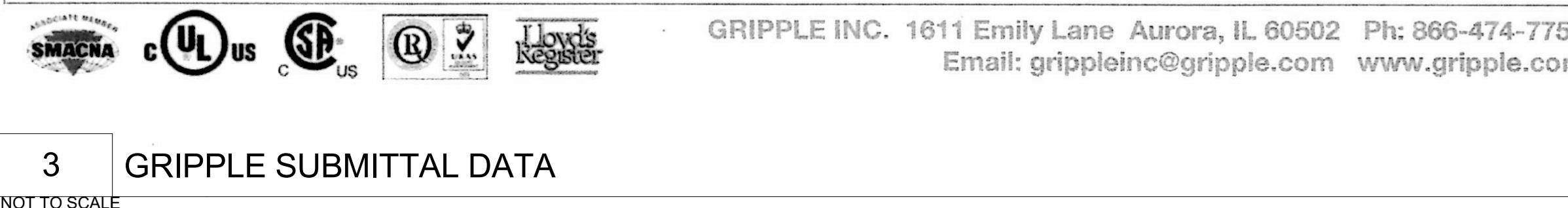
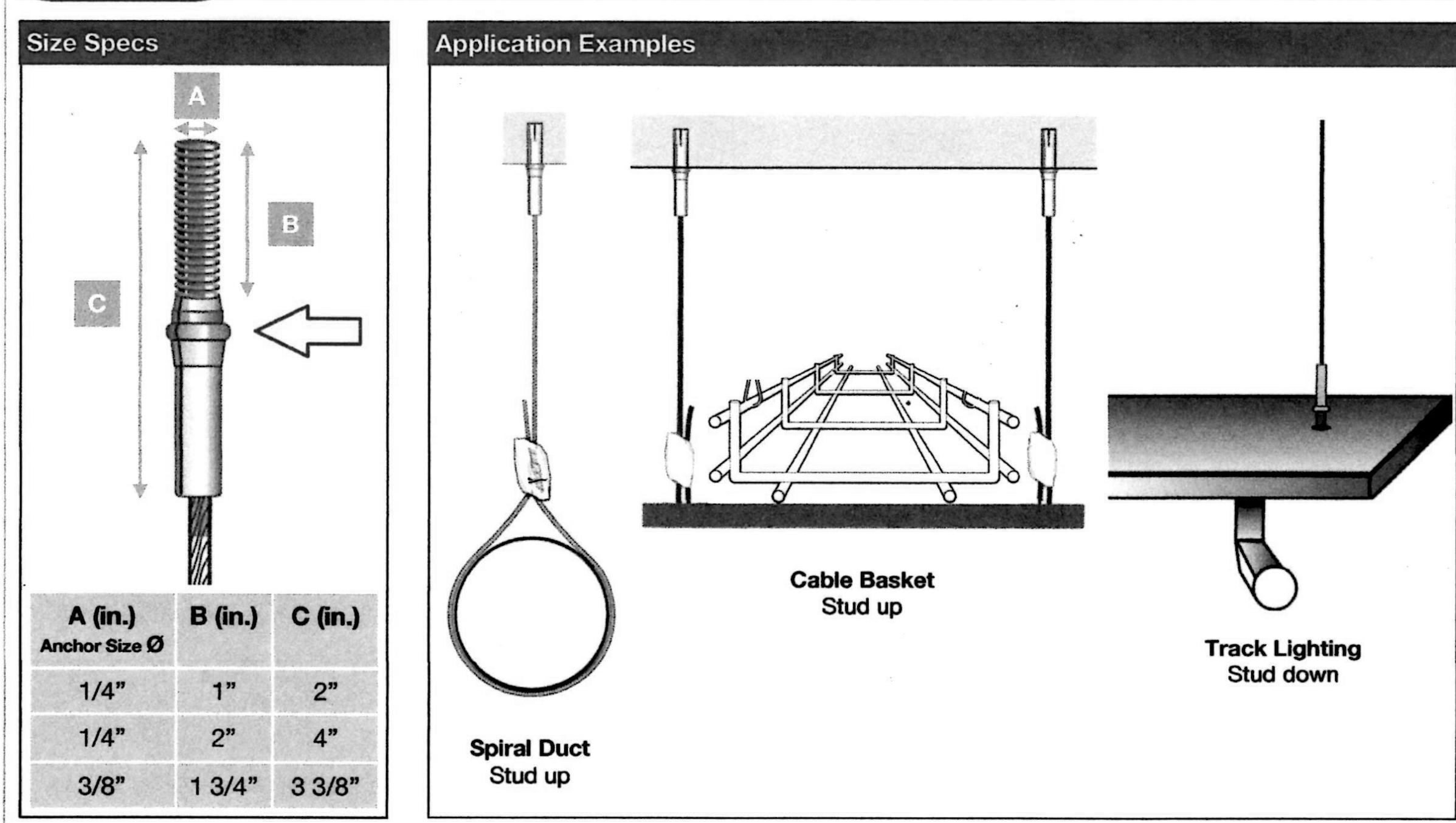
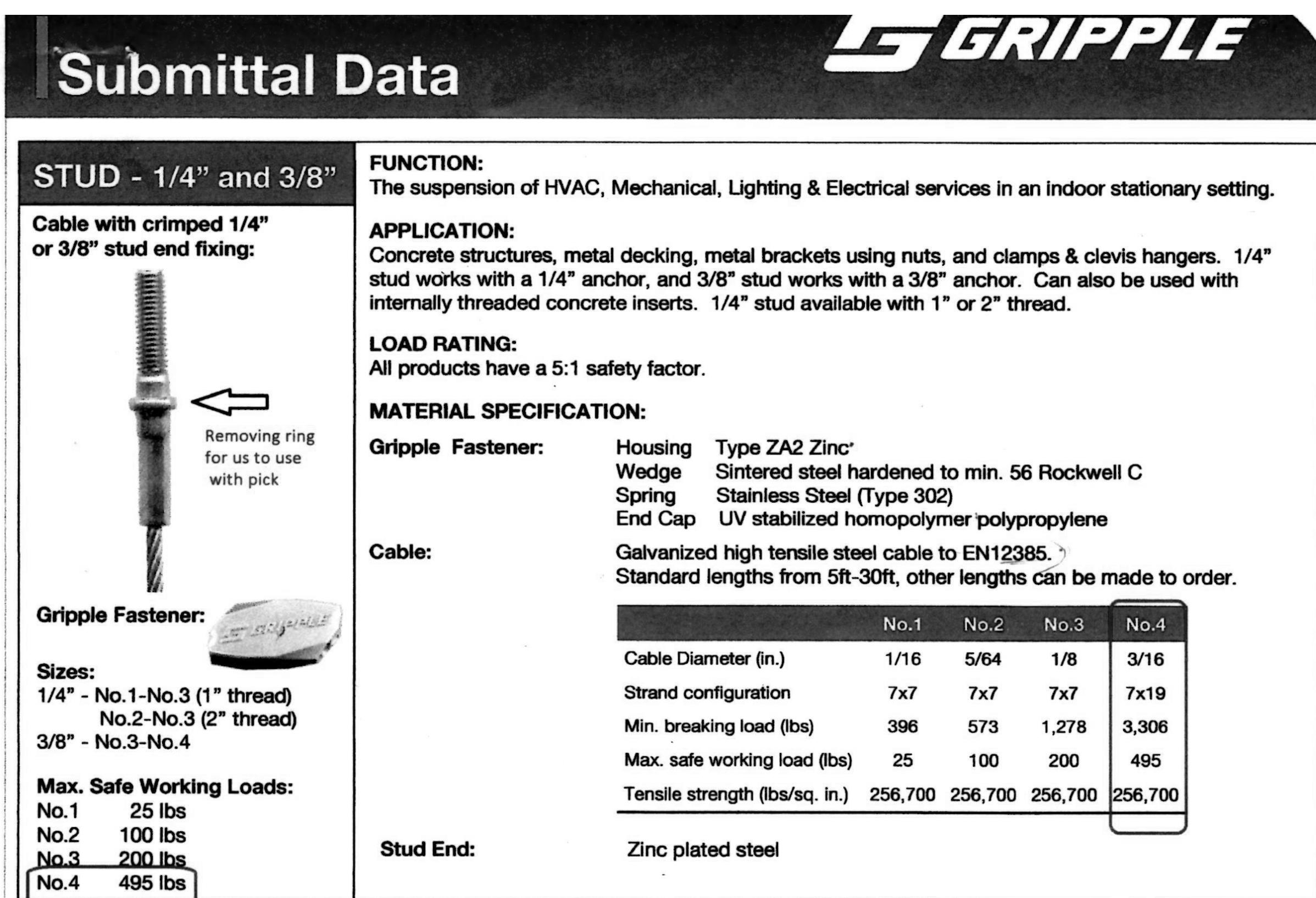
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SHEET TITLE
INTERIOR DETAILS

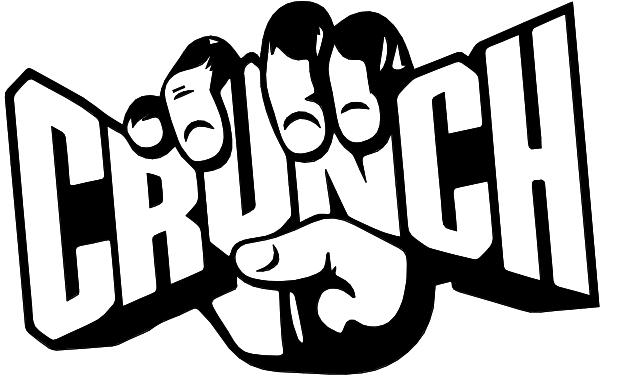
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PROJECT NO:	22-45	



2 BIG ASS FANS INSTALLATION DETAIL - ANGLED IRON
NOT TO SCALE



A500.3



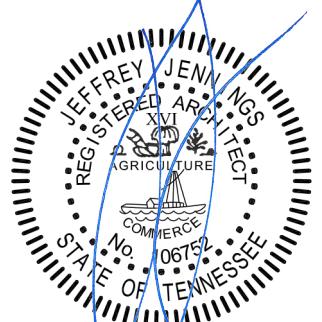
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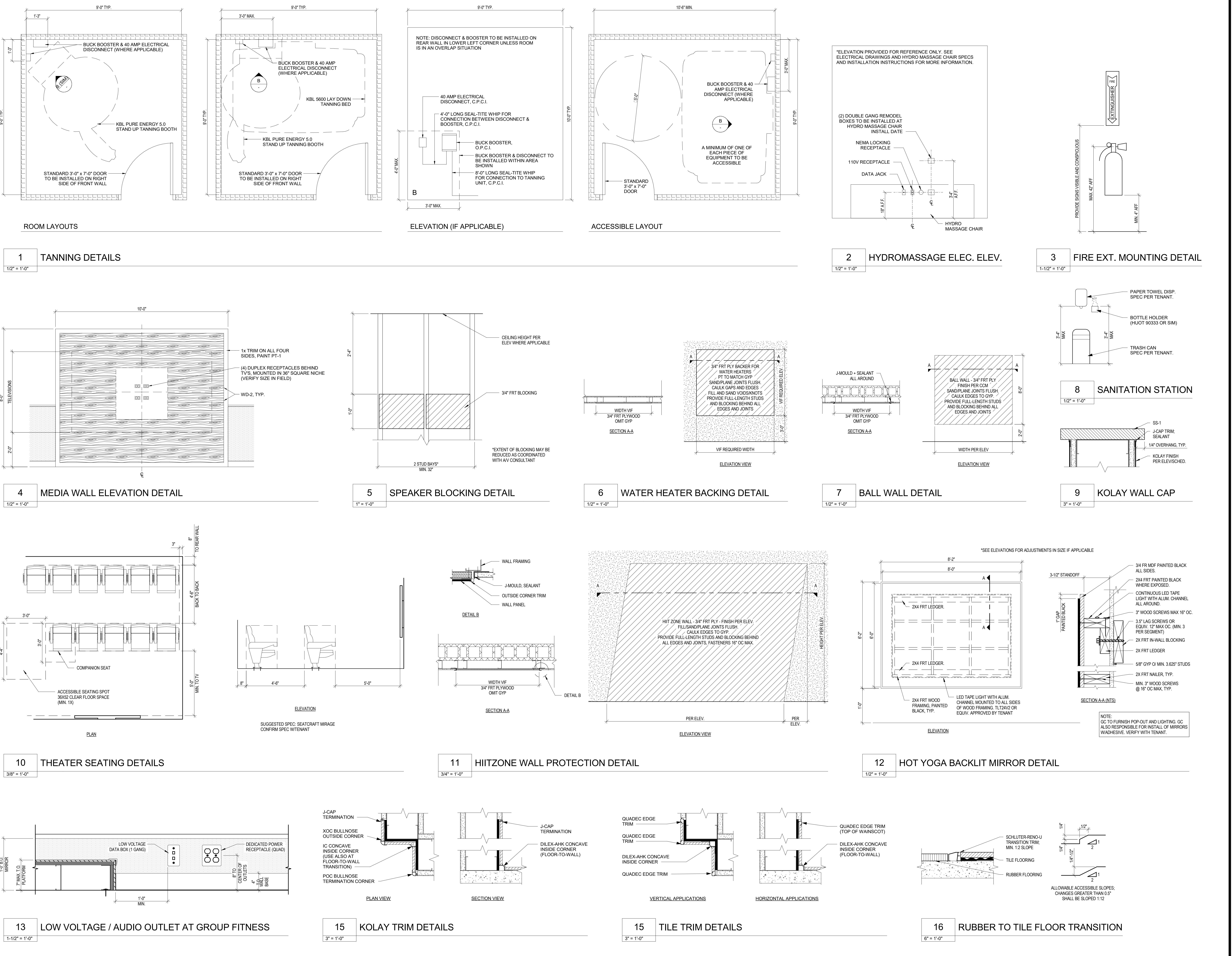
CRUNCH FITNESS

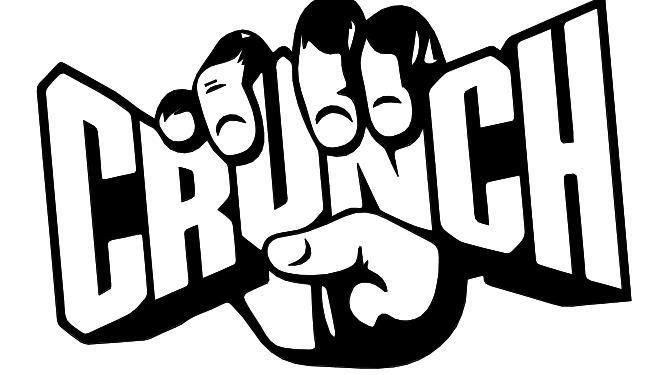
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SHEET TITLE
INTERIOR DETAILS

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A500.4





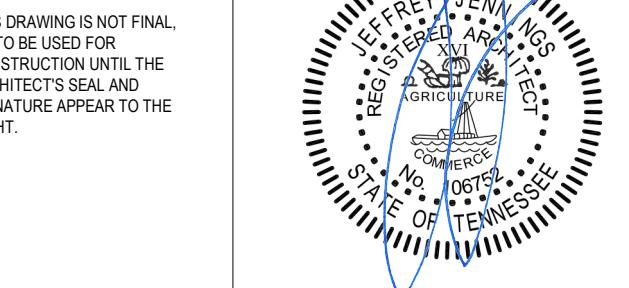
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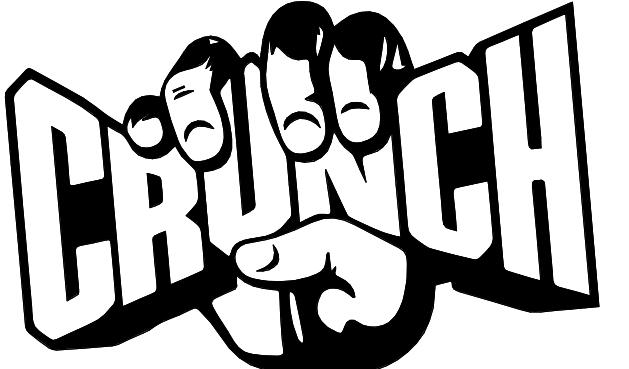
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ROOM SCHEDULE										
ROOM NUMBER	ROOM NAME	FLOOR	BASE	W	E	N	S	CEILING	WALLS (PLAN DIRECTION: N = "PLAN NORTH")	
101	GYM CHECK-IN	FT-2	WB-1	WP-2, PT, WP-2A	WP-2, PT, WP-2A	WP-2, PT, WP-2A	WP-2, PT, WP-2A	EXP-1		
102	RECEPTION	FT-2	WB-1	WP-2, PT, WP-2A	WP-2, PT, WP-2A	WP-2, PT, WP-2A	WP-2, PT, WP-2A	EXP-1		
103	RELAX AND RECOVER	FT-1A	WB-1	WP-2, PT, WP-2A	WP-2, PT, WP-2A	WP-2, PT, WP-2A	WP-2, PT, WP-2A	EXP-1		
104	OFFICE	FT-2	WB-1	WP-2, PT, WP-2A	WP-2, PT, WP-2A	WP-2, PT, WP-2A	WP-2, PT, WP-2A	SC-2		
105	STORAGE	FT-2	-	PT	PT	PT	PT	EXP-1		
106	HOT TUB MASSAGE	FT-1A	WB-1	WP-2, PT, WP-2A	WP-2, PT, WP-2A	WP-2, PT, WP-2A	WP-2, PT, WP-2A	EXP-1		
107	KBL LAY DOWN	FT-1A	WB-1	PT	PT	PT	PT	EXP-1		
108	KBL LAY DOWN	FT-1A	WB-1	PT	PT	PT	PT	EXP-1		
109	KBL STAND UP	FT-1A	WB-1	PT	PT	PT	PT	EXP-1		
110	KBL STAND UP	FT-1A	WB-1	PT	PT	PT	PT	EXP-1		
111	KBL STAND UP	FT-1A	WB-1	PT	PT	PT	PT	EXP-1		
112	KBL STAND UP	FT-1A	WB-1	PT	PT	PT	PT	EXP-1		
113	HOT YOGA	WD-3	WB-1	PT	PT	PT	PT	SC-1		
114	MAIN WORKOUT AREA	RF-1	WB-1	WP-2, PT, WP-2A	WP-2, PT, WP-2A	WP-2, PT, WP-2A	WP-2, PT, WP-2A	EXP-1		
114A	HITZONE	BTUR-1	WB-1	WP-2, PT, WP-2A	WP-2, PT, WP-2A	WP-2, PT, WP-2A	WP-2, PT, WP-2A	EXP-1		
114B	HITZONE	RF-2	WB-1	WP-2, PT, WP-2A	WP-2, PT, WP-2A	WP-2, PT, WP-2A	WP-2, PT, WP-2A	EXP-1		
115	WOMENS LOCKERS	FT-1A	FT-1E	FT-1A, TR-3, PT	FT-1A, TR-3, PT	FT-1A, TR-3, PT	FT-1A, TR-3, PT	SC-1		
116	CHANGING ROOM	FT-1A	-	FT-1A, TR-3, PT	FT-1A, TR-3, PT	FT-1A, TR-3, PT	FT-1A, TR-3, PT	SC-1		
117	CHANGING ROOM	FT-1A	-	FT-1A, TR-3, PT	FT-1A, TR-3, PT	FT-1A, TR-3, PT	FT-1A, TR-3, PT	SC-1		
118	WOMENS SHOWERS	FT-1A	-	FT-1A	FT-1A	WT-1	GWB			
119	WOMENS TOILETS	FT-1A	-	WT-1	FT-1A, TR-3, PT	FT-1A, TR-3, PT	FT-1A, TR-3, PT	SC-1		
120	WOMENS LAVATORY	FT-1A	-	FT-1A, TR-3, PT	FT-1A, TR-3, PT	FT-1A, TR-3, PT	FT-1A, TR-3, PT	SC-1		
121	UTILITY ROOM	CS-1	-	PT	PT	PT	PT	EXP-1		
122	MENS LOCKERS	FT-1A	FT-1E	FT-1A, TR-3, PT	FT-1A, TR-3, PT	FT-1A, TR-3, PT	FT-1A, TR-3, PT	SC-1		
123	MENS LAVATORY	FT-1A	-	FT-1A, TR-3, PT	FT-1A, TR-3, PT	WT-4	SC-1			
124	MENS TOILETS	FT-1A	-	WT-4	FT-1A, TR-3, PT	FT-1A, TR-3, PT	FT-1A, TR-3, PT	SC-1		
125	MENS SHOWERS	FT-1B	-	FT-1A, TR-3, PT	FT-1A, TR-3, PT	WT-4	GWB			
126	STORAGE	CS-1	-	PT	PT	PT	PT	EXP-1		
127	FSR & ELEC. ROOM	CS-1	-	PT	PT	PT	PT	EXP-1		
128	GROUP FITNESS	WD-1	WB-1	WP-1, WP-2, PT, WP-1, WP-2, PT, WP-2A	WP-1, WP-2, PT, WP-2A	WP-1, WP-2, PT, WP-2A	WP-1, WP-2, PT, WP-2A	SC-1		
128A	GF STORAGE	WD-1	WB-1	WP-2, PT, WP-2A	WP-2, PT, WP-2A	WP-2, PT, WP-2A	WP-2, PT, WP-2A	SC-1		

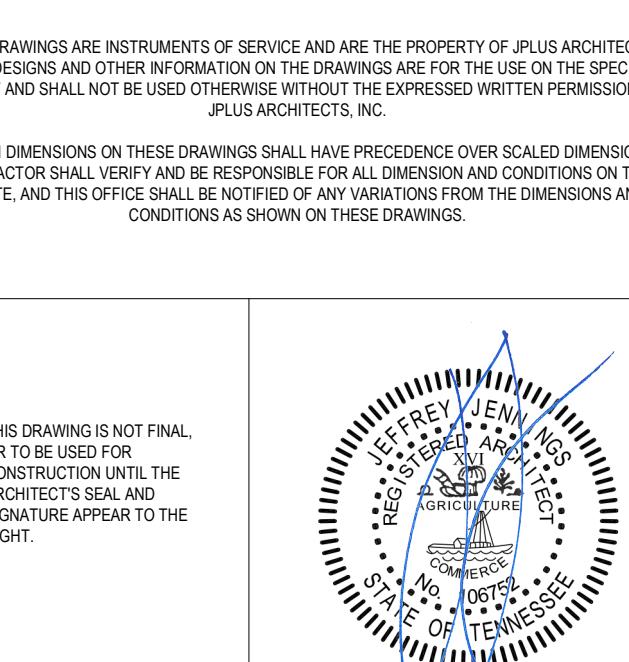
INTERIOR FINISH SCHEDULE										
SYMBOL	MATERIAL DESCRIPTION	MANUFACTURER	PRODUCT	SIZE	COLOR	FINISH	COMMENTS			
FT-1E	COVE TILE	DALTILE	VOLUME 1.0, P-36C9TB	6"x12"	STEREO GRAY VL73	N/A	<varies>			
WB-1	RUBBER	ARMSTRONG	-	4"x 4"	JET BLACK 60	N/A	-			
FTUR-1	TURF	ECORE	HILL ZONE TURF	-	BLACK w/ WHITE MARKS	N/A	<varies>			
CS-1	SEALED CONCRETE	L.M. SCOFIELD CO.	CONCRETE SEALER	-	CLEAR	N/A	<varies>			
FT-1B	CERAMIC TILE	DALTILE	PORTFOLIO	2"x 2"	DOVE GRAY PF04	N/A	<varies>			
FT-2	CERAMIC TILE	DALTILE	VOLUME 1.0	12"x 24"	AMPLIFY BLACK VL70	N/A	<varies>			
RF-1	RUBBER	ECORE	RUBBER	10.5MM	CRUNCH BLUE	N/A	<varies>			
RF-1B	RUBBER	ECORE	RUBBER	10.5MM	CRUNCH BLUE	N/A	<varies>			
WD-1	VINYL PLANK	CAL BAMBOO	CAL VINYL PRO WITH MUTE STEP	7-1/4" x 48"	BREAKAWATER OAK	N/A	<varies>			
WD-3	VINYL PLANK	CAL BAMBOO	CAL VINYL PRO HINDANSEA	7-1/4" x 48"	CLASSIC ACACIA	N/A	<varies>			

WALLS										
SYMBOL	MATERIAL DESCRIPTION	MANUFACTURER	PRODUCT	SIZE	COLOR	FINISH	COMMENTS			
C8B	CONCRETE BACKER BOARD	WONDERBOARD	LITE BACKERBOARD	5/8" THICK	-	-	AT ALL TILED WALLS			
FRP	FIBERGLASS REINFORCED PANEL	MARLITE	FIBERGLASS REINFORCED PANEL	3/32" THICK	WHITE GLOSS w/ SMOOTH PEBBLE FINISH	-	TRIM SHOULD BE APPLIED TO TOP OF PANEL AND TO ALL INSIDE AND OUTSIDE CORNERS			
PT	INTERIOR PAINT	SHERWIN WILLIAMS	-	-	-	-	<varies>			
PT-1	INTERIOR PAINT	SHERWIN WILLIAMS	LIGHT GRAY	-	MODERN GRAY SW7632	SEMI-GLOSS OR EGGSHELL	-			
PT-2	INTERIOR PAINT	SHERWIN WILLIAMS	MEDIUM GRAY	-	DORIAN GRAY SW7017	SEMI-GLOSS OR EGGSHELL	-			
PT-3	INTERIOR PAINT	SHERWIN WILLIAMS	DARK GRAY	-	IRON ORE SW7006	SEMI-GLOSS OR EGGSHELL	-			
PT-4	INTERIOR PAINT	SHERWIN WILLIAMS	BRAND BLUE	-	FLYWAY SW7594	SEMI-GLOSS OR EGGSHELL	-			
PT-5	INTERIOR PAINT	SHERWIN WILLIAMS	OLD GOLD	-	HONEY SW70019	SEMI-GLOSS OR EGGSHELL	-			
PT-6	INTERIOR PAINT	SHERWIN WILLIAMS	DARK PURPLE	-	CONCORD GRAPE SW6589	SEMI-GLOSS OR EGGSHELL	-			
PT-7	INTERIOR PAINT	SHERWIN WILLIAMS	MEDIUM PURPLE	-	FABULOUS GRAPE SW6293	SEMI-GLOSS OR EGGSHELL	-			
PT-8	INTERIOR PAINT	SHERWIN WILLIAMS	MEDIUM RED	-	REAL RED SW6568	SEMI-GLOSS OR EGGSHELL	-			
PT-9	INTERIOR PAINT	SHERWIN WILLIAMS	LIGHT RED	-	GRENADINE SW5952	SEMI-GLOSS OR EGGSHELL	-			
PT-10	INTERIOR PAINT	SHERWIN WILLIAMS	ORANGE	-	OSAGE ORANGE SW6869	SEMI-GLOSS OR EGGSHELL	-			
PT-11	INTERIOR PAINT	SHERWIN WILLIAMS	WHITE	-	B42 W181	FLAT	DRYFALL: CONFIRM COLOR WITH TENANT			
PT-12	EXTERIOR PAINT	SHERWIN WILLIAMS	ORANGE	-	NAVEL SW 8887	Eggshell	CONFIRM COLOR AND APPLICABILITY w/ TENANT, ADJUST SHEEN TO MATCH EXISTING OR PER TENANT			
WD-2	VINYL TILE	KOLAY	LUXURY VINYL TILE	6"x 48"	BUTTERSCOTCH #6081-C	-	<varies>			
WD-1	ACROVYN WALL PROTECTION	CONSTRUCTION SPECIALTIES	DADO TEXTURE ACRYVYN	43" x 90" / 43" x 3' 4"	BLACK SUEDE #108	-	<varies>			
WP-2	ACROVYN WALL PROTECTION	CONSTRUCTION SPECIALTIES	PINSTRIPE TEXTURE ACRYVYN	43" x 90" / 43" x 114"	BRUSHED NICKEL #378	-	<varies>			
WP-2A	ACROVYN WALL TRIM	CONSTRUCTION SPECIALTIES	WAISCOAT MOLDING	1/4" x 120"	BRUSHED NICKEL #378	-	<varies>			
WT-1	CERAMIC TILE	DALTILE	SHOWSCAPE	12" x 24"	CRISP BLUE SH16	-	REAR ACCENT WALLS IN WOMENS LOCKER AREA: WT-3			



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CRUNCH FITNESS
3634 BELL ROAD
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APN: 09700013000

CONSTRUCTION DRAWINGS

09700013000

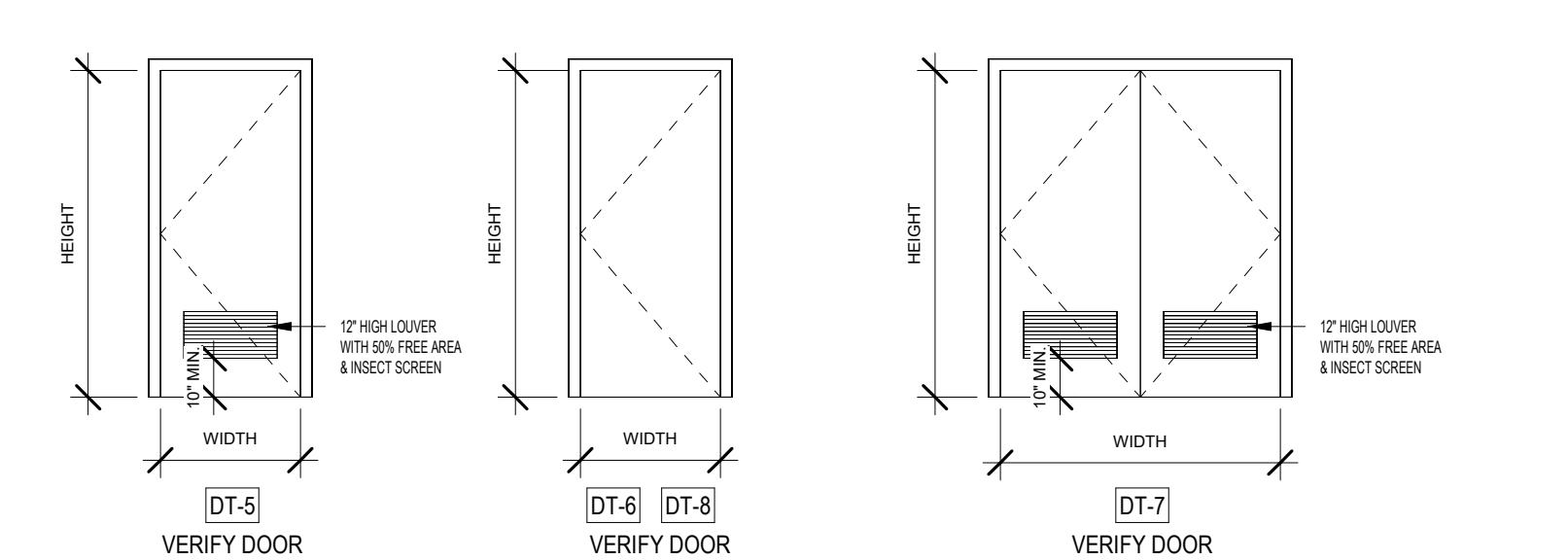
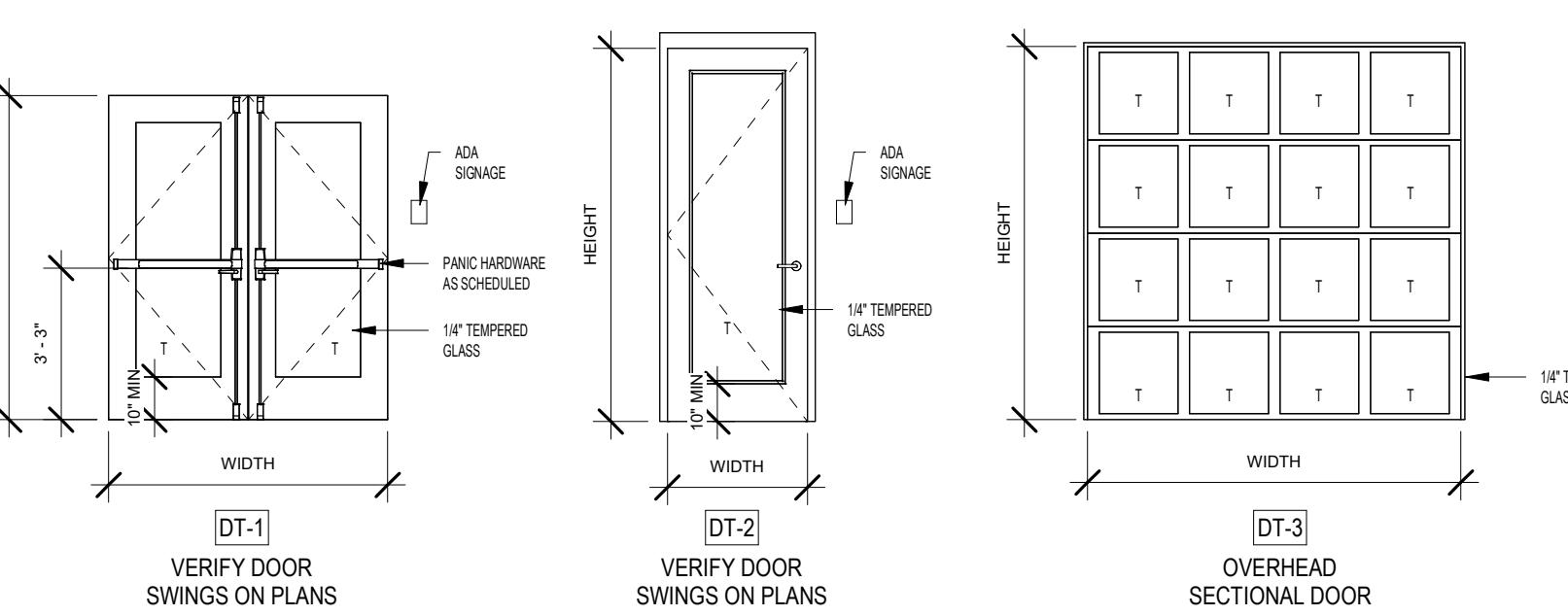
SHEET TITLE
DOOR, WINDOW, AND EQUIPMENT SCHEDULES

PROJECT MANAGER	DESCRIPTION	DATE
Kris Johnson		
PROJECT ARCHITECT		
Jeff Jennings		
SCALE:	AS NOTED	
DATE:	10/27/2023	
PROJECT NO:	22-45	

A600.2

DOOR SCHEDULE

DOOR NO.	ROOM NAME	SIZE		DOOR MATERIAL	FRAME MATERIAL	FINISH	HARDWARE FINISH	FIRE RATING	COMMENTS	TYPE
		WIDTH	HEIGHT							
104	OFFICE	3' 7"	7' 1 1/4"	T	ALUM	CA	ALUM	CA	3' NR	DT-2
105	STORAGE	3' 7"	7' 1 1/4"	-	HM	PT	HM	PT	8' NR	NOTE 7
107	KBL LAY DOWN	3' 7"	7' 1 1/4"	-	HM	PT	HM	PT	9' NR	DT-6
108	KBL STAND UP	3' 7"	7' 1 1/4"	-	HM	PT	HM	PT	9' NR	DT-6
109	KBL STAND UP	3' 7"	7' 1 1/4"	-	HM	PT	HM	PT	9' NR	DT-6
110	KBL STAND UP	3' 7"	7' 1 1/4"	T	ALUM	CA	ALUM	CA	3' NR	NOTE 5
111	KBL STAND UP	3' 7"	7' 1 1/4"	-	HM	PT	HM	PT	8' NR	DT-6
126	STORAGE	3' 7"	7' 1 1/4"	-	HM	PT	HM	PT	8' NR	DT-6
127A	FSR & ELEC. ROOM	3' 7"	7' 1 1/4"	-	HM	PT	HM	PT	8' NR	NOTE 7
127B	FSR & ELEC. ROOM	3' 7"	7' 1 1/4"	-	HM	PT	HM	PT	8' NR	NOTE 7
128A	GROUP FITNESS	3' 8"	7' 1 1/4"	T	ALUM	CA	ALUM	CA	3' NR	NOTE 5
128B	GROUP FITNESS	8' 8"	7' 1 1/4"	T	METAL	-	METAL	-	11' NR	NOTES 5, 6
EX01	GYM CHECK-IN	6' 8"	7' 1 1/4"	-	-	-	-	-	20'	NOTES 1, 2
EX02	GYM CHECK-IN	6' 8"	7' 1 1/4"	-	-	-	-	-	20'	EXISTING
EX03	MAIN WORKOUT AREA	3' 7"	7' 1 1/4"	-	-	-	-	-	20'	NOTES 1, 2, 4
EX04	MAIN WORKOUT AREA	3' 7"	7' 1 1/4"	-	-	-	-	-	20'	NOTES 1, 2, 4
HM FRAMES SHALL BE WELDED. KNOCKDOWN TYPE IS NOT PERMITTED PER CRUNCH MANUAL. IF KNOCKDOWN IS PROPOSED, DOCUMENTATION OF OWNER APPROVAL OF ALTERNATE SHALL BE PROVIDED WITH SUBMISSION TO ARCHITECT.										



DOOR HARDWARE GROUPS

HARDWARE GROUP	APPLICATION	HS FUNCTION	HINGE	EXIT DEVICES	LOCKSET/LEVERSET	PUSH/PULL	CLOSER	DEADLATCH	KICK PLATE	SILENCER	SWEEP	WEATHER STRIP	THRESHOLD	Drip	HS STOP	FINISH	KEYING
1	DOUBLE EXT. STOREFRONT	ENTRY	2X CONTINUOUS	2X 8600 ADAMS RITE	THUMBTURN & CYL	-	2X 6"	OFFSET	-	ADAMS RITE	-	-	Y	Y	Y	-	MATCH 7 PIN SFIC
2	SINGLE EXT. STOREFRONT	ENTRY	CONTINUOUS	8600 ADAMS RITE	THUMBTURN & CYL	-	8"	OFFSET	-	ADAMS RITE	-	-	Y	Y	Y	-	MATCH 7 PIN SFIC
3	SINGLE INT. STOREFRONT W/O PANIC	CLASSROOM	CONTINUOUS	-	-	-	-	-	-	-	-	-	Y	Y	-	-	MATCH 7 PIN SFIC
4	DOUBLE INT. STOREFRONT W/O PANIC	ENTRY	2X CONTINUOUS	-	CLASSROOM	-	-	-	-	-	-	-	Y	Y	-	-	MATCH 7 PIN SFIC
5	SINGLE INT. STOREFRONT W/ PANIC	ENTRY	CONTINUOUS	8600 ADAMS RITE	ENTRY CYL	-	8"	OFFSET	-	ADAMS RITE	-	-	Y	Y	-	-	MATCH 7 PIN SFIC
6	DOUBLE INT. STOREFRONT W/ PANIC	ENTRY	2X CONTINUOUS	2X 8600 ADAMS RITE	ENTRY CYL	-	2X 8"	OFFSET	-	ADAMS RITE	-	-	Y	Y	-	-	MATCH 7 PIN SFIC
7	SINGLE INT. PASSAGE	PASSAGE	3X BUTT FM BBS	-	PASSAGE	-	-	-	-	3X 307D	-	-	441CU ROCKWOOD	26D/3D	-	-	441CU ROCKWOOD
8	SINGLE INT. STOREROOM	STOREROOM	3X BUTT FM BBS	-	STOREROOM	-	-	-	-	3X 307D	-	-	461 ASSA ABLOY	26D/3D	7 PIN SFIC	-	461 ASSA ABLOY
9	SINGLE INT. PRIVACY	PRIVACY	3X BUTT FM BBS	-	PRIVACY W/ THUMBTURN INDICATOR	-	-	-	-	3X 307D	-	-	441CU ROCKWOOD	26D/3D	-	-	441CU ROCKWOOD
10	SINGLE INT. PUSH/PULL	SAUNA	3X BUTT FM BBS	-	PASSAGE	-	-	-	-	3X 307D	-	-	441CU ROCKWOOD	26D/3D	-	-	441CU ROCKWOOD
11	OVERHEAD DOOR (HARDWARE PER MNFR)	METAL OH	-	-	-	-	-	-	-	Y	Y	-	-	-	-	-	26D/3D
12	SINGLE EXT. HM	EXIT	3X BUTT FM BBS/MPR	8700 ADAMS RITE	EXIT ONLY	-	-	-	ADAMS RITE	-	3X 307D	Y	Y	Y	Y	441CU ROCKWOOD	26D/3D
13	SINGLE INT. STOREFRONT OFFICE/W/INDICATOR	FIT3D	CONTINUOUS	-	CLASSROOM W/ THUMBTURN & INDICATOR	-	8"	OFFSET	(INDICATOR)	-	-	Y	Y	-	-	MATCH FRAME	7 PIN SFIC
14	SINGLE INT. STOREFRONT	OFFICE / KIDS CRUNCH	CONTINUOUS	-	3090 ADAMS RITE	-	8"	OFFSET	-	-	-	Y	Y	-	-	MATCH FRAME	-
15	SINGLE INT. STOREROOM	IT ROOM	3X BUTT FM BBS	-	TRILOGY DL2700	-	-	-	-	Y	Y	-	-	461 ASSA ABLOY	26D/3D	-	-
20	EXISTING	E	E	ADD/REPLACE PER OWNER	E	E	E	E	E	E	E	E	E	E	E	E	7 PIN SFIC

HARDWARE GROUP NOTES:
1. BASIS OF DESIGN PROVIDED: CONSULT MANUAL AND OWNER FOR SUBSTITUTIONS.
2. THRESHOLDS WHERE PROVIDED MAX 1/2" HEIGHT.
3. PROVIDE CONSTRUCTION CORES WHERE REQUESTED BY OWNER
4. OWNER RESERVES RIGHT TO CHANGE LEVERSET FUNCTION
5. SAUNA HANDLE, HINGES AND LATCH MAY BE SUBSTITUTED WITH ACCESSIBLE HARDWARE FROM THE MANUFACTURER IF REQUESTED BY TENANT

GLAZING

SYMBOL	MATERIAL DESCRIPTION	DIMENSION	GLASS	FRAME	FINISH	LOCATION
GLAZING						
GL-1	MEN'S LOCKER ROOM GLASS	3'-11" W x 8'H	TEMPERED	ALUM	SATIN	MEN'S LOCKER ROOM
GL-2	WOMEN'S LOCKER ROOM GLASS	3'-11" W x 8'H	TEMPERED	ALUM	SATIN	WOMEN'S LOCKER ROOM
GL-3	OFFICE STOREFRONT	5' W x 8'H	TEMPERED	ALUM	CLEAR ANODIZED	OFFICE
GL-4	HOT YOGA STOREFRONT	6'-6" W x 8'H	TEMPERED	ALUM	CLEAR ANODIZED	HOT YOGA

NOTE: If red glass top frame and bottom frame (see CCM) to be provided by general contractor. White graphic to be provided by graphic vendor.

CONTRACTOR: White graphic to be provided by graphic vendor.

OWNER: White graphic to be provided by graphic vendor.

GRAPHIC VENDOR: White graphic to be provided by graphic vendor.

GENERAL CONTRACTOR: White graphic to be provided by graphic vendor.

ARCHITECT: White graphic to be provided by graphic vendor.

DESIGNER: White graphic to be provided by graphic vendor.

STRUCTURAL ENGINEER: White graphic to be provided by graphic vendor.

MECHANICAL ENGINEER: White graphic to be provided by graphic vendor.

ELECTRICAL ENGINEER: White graphic to be provided by graphic vendor.

PLUMBING ENGINEER: White graphic to be provided by graphic vendor.

MEASUREMENTS: White graphic to be provided by graphic vendor.

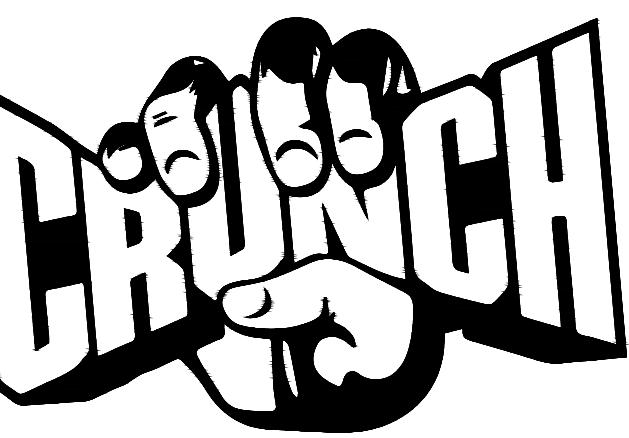
CONTRACTOR: White graphic to be provided by graphic vendor.

GENERAL CONTRACTOR: White graphic to be provided by graphic vendor.

ARCHITECT: White graphic to be provided by graphic vendor.

DESIGNER: White graphic to be provided by graphic vendor.

STRUCTURAL ENGINEER: White graphic to be provided by graphic vendor.



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THE DRAWING IS NOT FINAL. IT IS TO BE USED FOR CONSTRUCTION UNTIL THE ARCHITECT'S SEAL AND SIGNATURE APPEAR TO THE RIGHT.

MICHAEL TOTH,
Architect
COMMERCE
STATE OF TENNESSEE
#127558

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APN: 09700013000

**MECHANICAL GENERAL
NOTES, SYMBOLS LIST &
ABBREVIATIONS**

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:	N.T.S.	
DATE:	10/27/2023	
PROJECT NO:	22-45	

MECHANICAL SYMBOLS LIST

AC-1 (TXF-1)	EQUIPMENT SYMBOL	CONTROLS AND SENSORS
AIR DEVICES		
		① THERMOSTAT
☒ ☒	CEILING DIFFUSER SUPPLY	S _d DUCT SMOKE DETECTOR
☐ ☐	CEILING DIFFUSER RETURN	CO ₂ CO ₂ DETECTOR
DUCTWORK		
		AIR DUCT W/ 1.5" ACOUSTICAL LINING
		FLEXIBLE DUCT
		RECTANGULAR DUCT (WIDTH X DEPTH)
		ROUND DUCT (DIAMETER)
		ROUND DUCT CROSS SECTION
		SUPPLY AIR RECTANGULAR DUCT CROSS SECTION
		RETURN AIR RECTANGULAR DUCT CROSS SECTION
DUCT ACCESSORIES		
		VOLUME DAMPER W/ ACCESS DOOR
		FIRE DAMPER W/ ACCESS DOOR
		MOTORIZED DAMPER W/ ACCESS DOOR

MECHANICAL ABBREVIATIONS

AL	ACOUSTIC LINING
CDS	CEILING DIFFUSER SUPPLY
CDR	CEILING DIFFUSER RETURN
CFM	CUBIC FEET OF AIR PER MINUTE
DN	DOWN
EG	EXHAUST GRILLE
FC	FLEXIBLE CONNECTION
FD/AD	FIRE DAMPER W/ACCESS DOOR
MD	MOTORIZED DAMPER
RTU	ROOF TOP UNIT
RG	RETURN GRILLE
RA	RETURN AIR
EER	ENERGY EFFICIENCY RATIO
Ieer	INTEGRATED ENERGY EFFICIENCY RATIO
SG	SUPPLY GRILLE
SA	SUPPLY AIR
VD	VOLUME DAMPER
EF	EXHAUST FAN
SAE	SAME AS EXISTING
VIF	VERIFY IN FIELD
AC	AIR CURTAIN

MECHANICAL DRAWING LIST

M001.1	MECHANICAL GENERAL NOTES, SYMBOLS LIST & ABBREVIATIONS
M001.2	MECHANICAL SPECIFICATIONS
M100.1	MECHANICAL FLOOR PLAN
M100.2	MECHANICAL ROOF PLAN
M500.1	MECHANICAL DETAILS (1 OF 2)
M500.2	MECHANICAL DETAILS (2 OF 2)
M600.1	MECHANICAL SCHEDULES

ENERGY CONSERVATION CODE 2018 COMPLIANCE

TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND JUDGEMENT, THESE PLANS AND SPECIFICATION ARE IN COMPLIANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE 2018.

NASHVILLE BUILDING DEPARTMENT NOTES

ALL WORK SHALL COMPLY WITH APPLICABLE SECTIONS OF NASHVILLE CODE, BASE CODE, ICC IBC 2018, AND ALL RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE.

1. ALL HEATING AND COOLING LOADS CALCULATED PER ASHRAE/ACCA 183.

2. VENTILATION FOR ALL AREA SHALL COMPLY WITH 2018 INTERNATIONAL MECHANICAL CODE, CHAPTER 4.

3. AS PER C408.2.5 OF IEC 2018, CONSTRUCTION DOCUMENT SHALL REQUIRE THAT, WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER.

4. AS PER C408.3.2 OF IEC 2018, CONSTRUCTION DOCUMENT SHALL REQUIRE THAT AN OPERATING MANUAL AND A MAINTAINED MANUAL BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A PROFESSIONAL ENGINEER TO PROVIDE THE REQUIRED SPECIAL INSPECTIONS AND TESTS.

5. TESTS WILL BE CONDUCTED UNDER DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT OR OTHER PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF SUCH MECHANICAL SYSTEMS. THE TESTS WILL SHOW COMPLIANCE WITH IBC 2018, REQUIREMENTS AS OUTLINES IN SECTION.

6. THE LICENSED PROFESSIONAL ENGINEER, ARCHITECT OR OTHER PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF SUCH MECHANICAL SYSTEMS AND CONDUCTING SUCH TESTS WILL FILE DOCUMENTATION AND REPORTS OF TESTS THAT THE SYSTEM COMPLIES WITH THE CONSTRUCTION DOCUMENTS AND APPLICABLE LAWS.

7. TESTS OF MECHANICAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF IMC 2018 CHAPTER 4 AND CHAPTER 5.

A. STANDARDS OF HEATING - IMC 2018.

B. CONSTRUCTION AND INSTALLATION - SECTION 603 OF IMC 2018.

C. AIR INTAKES, EXHAUSTS AND RELIEF - SECTION 401 OF IMC 2018.

D. AIR FILTERS - SECTION 605 OF IMC 2018.

E. MANIFOLD AND AUTOMATIC FIRE AND SMOKE CONTROLS FOR AIR DISTRIBUTION SYSTEMS - SECTION 513 OF IMC 2018.

9. MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON: 68 DEG FAHRENHEIT.

10. A STATEMENT SHALL BE FILED BY THE OWNER OR TENANT IN POSSESSION THAT THE VENTILATION SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING THE NORMAL OPERATION OF THE STRUCTURE. NECESSARY TO IMC 2018 CHAPTER 4 SECTION 403.3, HVAC SYSTEM SHALL BE BALANCED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING STANDARDS AS REQUIRED BY IMC 2018 SECTION 408.2.2.

11. SMOKE DETECTION SYSTEMS SHALL BE INSTALLED AND SEQUENCED TO FOLLOW CONTROLS OPERATIONS WITH THE REQUIREMENTS OF SECTION 606 NASHVILLE BUILDING CODE; BASE CODE ICC 2018, TO CLOSE DAMPERS AND AUTOMATICALLY STOP THE FAN.

12. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE-RATED WALL AND SMOKE WALL CONSTRUCTION AND LOCATION.

13. THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

14. A COMMISSIONING PLAN SHALL DEVELOPED BY A LICENSED DESIGN PROFESSIONAL, MECHANICAL ENGINEER OR APPROVED AGENCY.

15. A PRELIMINARY REPORT OF COMMISSIONING TEST PROCEDURES AND RESULTS SHALL BE COMPLETED AND CERTIFIED BY THE LICENSED DESIGN PROFESSIONAL, ELECTRICAL ENGINEER, MECHANICAL ENGINEER OR APPROVED AGENCY AND PROVIDED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT AS PER IMC 2018, C408.2.4

16. MECHANICAL SYSTEMS SHALL BE AUTHORIZED PER IEC 2018 C403.2.2, C408.2.1, C408.2.5 FINAL COMMISSIONING REPORT SHALL BE DUE WITHIN 90 DAYS OF RECEIPT OF CERTIFICATE OF OCCUPANCY.

25. ALL MATERIAL AND EQUIPMENT TO BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.

26. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS INDICATING THAT A CAREFUL EXAMINATION OF THE EXISTING BUILDING EQUIPMENT, ETC., WHICH AFFECTS THE WORK, AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. OWNER SHALL PAY FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. THE ON-SITE INSPECTION SHALL VERIFY EXISTING DUCTWORK, PIPING (SIZES, CLEARANCES, ETC) AND CONDITIONS.

27. INSURANCE: IN ACCORDANCE WITH BUILDING REQUIREMENTS THE CONTRACTOR SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER.

28. THE FINAL ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT TO BALANCE THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL.

29. SPECIFICATIONS ARE OF SIMPLIFIED FORM AND INCLUDE INCOMPLETE SENTENCES, WORDS OR PHRASES SUCH AS "THE CONTRACTOR SHALL," "SHALL BE," "FURNISH," "PROVIDE," "A," "THE," AND "ALL" HAVE BEEN OMITTED FOR BREVITY.

30. WHERE A CONFLICT EXISTS BETWEEN THE DRAWINGS, THE SPECIFICATIONS OR ANY OTHER CONSTRUCTION DOCUMENT, THE ONE WITH THE MOST STRINGENT REQUIREMENT(S) SHALL APPLY.

DEFINITIONS:

1) "PROVIDE": TO SUPPLY, INSTALL AND CONNECT UP COMPLETE AND READY FOR SAFE AND REGULAR OPERATION THE PARTICULAR WORK REFERRED TO UNLESS SPECIFICALLY OTHERWISE NOTED.

2) "INSTALL": TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES.

3) "FURNISH" OR "SUPPLY": TO PURCHASE, PROCURE, ACQUIRE AND DELIVER COMPLETE WITH RELATED ACCESSORIES.

SCOPE OF WORK

SCOPE OF WORK

1. THE WORK UNDER CONTRACT INCLUDES ALL LABOR, MATERIALS AND APPLIANCES NECESSARY FOR THE FURNISHING, INSTALLING AND TESTING, COMPLETE AND READY FOR SAFE OPERATION OF THE SYSTEMS AS SHOWN ON THE CONTRACT SPECIFICATIONS, FLOOR PLANS, SECTION, DETAIL DRAWINGS, NOTES, R.F.I.'S, ETC. FOR THIS PROJECT. WORK SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER.

8. WHERE PENETRATIONS THROUGH FIRE RATED WALLS ARE NOT FIRE PROOFED THIS CONTRACTOR SHALL BE RESPONSIBLE TO SEAL SAME TO MAINTAIN THE TOTAL INTEGRITY.

9. CONNECT NEW WORK TO EXISTING WORK IN NEAT AND APPROVED MANNER. RESTORE EXISTING WORK DISTURBED WHILE INSTALLING NEW WORK TO ACCEPTABLE CONDITION AS DETERMINED BY ARCHITECT.

HVAC DUCTWORK - SHEET METAL

1. CERTAIN ITEMS SUCH AS RISSES AND DROPS, IN DUCTWORK, ACCESS DOORS, VOLUME DAMPERS, ETC., ARE INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL FURNISH THE EXACT EQUIPMENT AND SIZE AS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS.

2. CONTRACTOR TO CHECK AND CORRECT ANY AND ALL DIMENSIONS OF EXISTING DUCTS AND NEW DUCTWORK, WHICH CONFORM WITH THE LATEST SIGHTING GUIDELINES AND CONFORM WITH REQUIREMENTS OF THE LATEST HANDBOOKS PUBLISHED BY ASHRAE.

3. PROVIDE VOLUME DAMPER AT EACH TAP TO MAIN DUCT AND WHERE NECESSARY TO PROPERLY BALANCE SYSTEM.

4. SUPPLY AND RETURN DUCTWORK 10' FROM ALL HVAC UNITS SHALL BE LINED WITH 1.5" ACOUSTICAL LINING.

5. RE-INSULATE ALL DUCTWORK AND PIPING IN WHICH INSULATION HAS BEEN REMOVED OR DAMAGED WITH INSULATION EQUAL TO THE EXISTING INSULATION.

6. CONTRACTOR SHALL SUPPLY AND INSTALL ALL NECESSARY SUPPLY DIFFUSERS AND RETURN AIR REGISTERS WHERE INDICATED ON THE DRAWINGS. COORDINATE LOCATION OF DIFFUSERS AND REGISTERS WITH REFLECTED CEILING PLAN.

7. IN CORRIDORS WHERE CEILING SPEAKERS AND AIR DIFFUSERS ARE INDICATED BETWEEN THE SAME LIGHT FIXTURES, INSTALL BOTH DEVICES AT THE QUARTER POINTS BETWEEN THE FIXTURES.

8. UNLESS OTHERWISE SHOWN, LOCATE ALL ROOM THERMOSTATS 4'-0" (CENTER LINE) ABOVE THE FINISHED FLOOR. NOTIFY THE ENGINEER OF ANY ROOMS WHERE THE PRECEDING LOCATION CANNOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON LOCATION.

9. ALL DUCTWORK SHALL CLEAR DOORS AND WINDOWS.

10. ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.

11. PROVIDE ALL 90-DEGREE SQUARE ELBOWS WITH DOUBLE RADIUS TURNING VANES UNLESS OTHERWISE INDICATED. ELBOWS IN DISHWASHER, KITCHEN, AND LAUNDRY EXHAUSTS SHALL BE UN-VANE. SMOOTH RADIUS CONSTRUCTION WITH A RADIUS EQUAL TO 1-1/2 TIMES THE WIDTH OF THE DUCT. PROVIDE ACCESS DOORS UPSTREAM OF ALL ELBOWS WITH TURNING VANES.

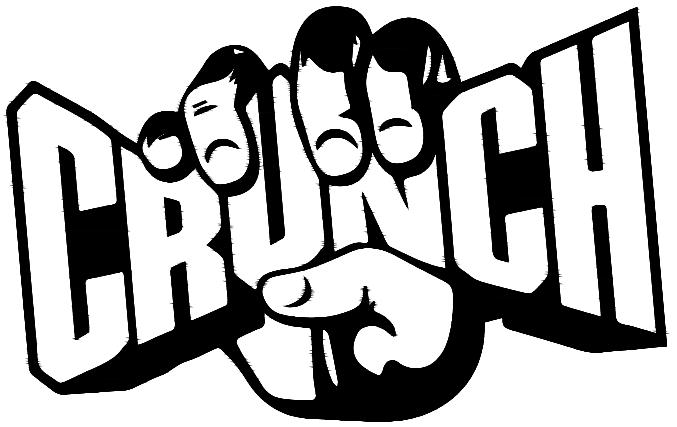
12. COORDINATE DIFFUSER, REGISTER, AND GRILL LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS. LIGHTING AND OTHER CEILING ITEMS AND MAKE MINOR DUCT MODIFICATIONS TO SUIT.

13. ALL AIR HANDLING UNITS SHALL OPERATE WITHOUT MOISTURE CARRYOVER.

14. LOCATE ALL MECHANICAL EQUIPMENT FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS, AND VALVING.

15. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS (SUPPLY, RETURN, AND EXHAUST) CONNECTED TO AIR HANDLING UNITS, FANS, AND OTHER EQUIPMENT THAT REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.

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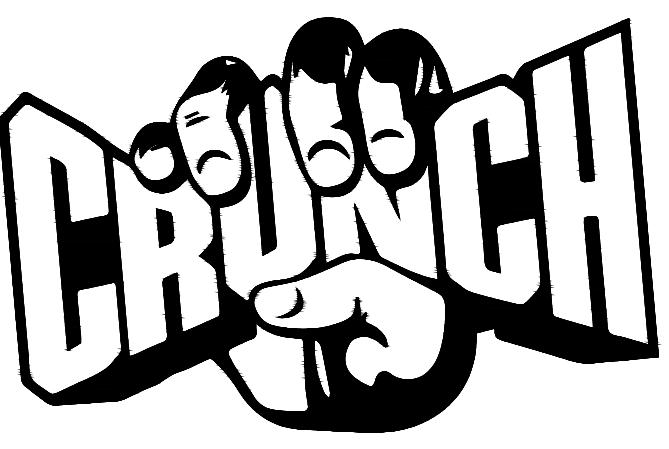
<u>PROJECT TEAM</u>	
<u>BUILDING OWNER</u>	
D	
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MECHANICAL SPECIFICATIONS

PROJECT SPECIFICATIONS		
O.	DESCRIPTION	DATE
PROJECT MANAGER	S. Johnson	
PROJECT ARCHITECT	F. Jennings	
SALE:	.S.	
DATE:	10/27/2023	
PROJECT NO:	22-45	



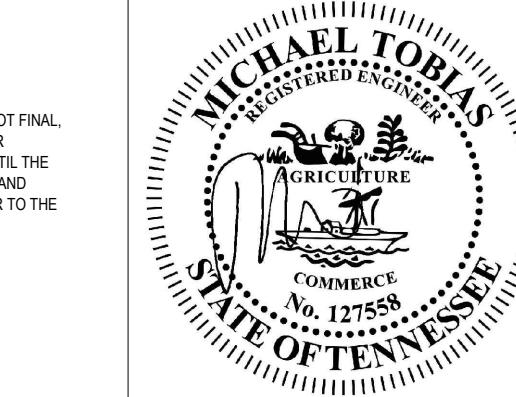
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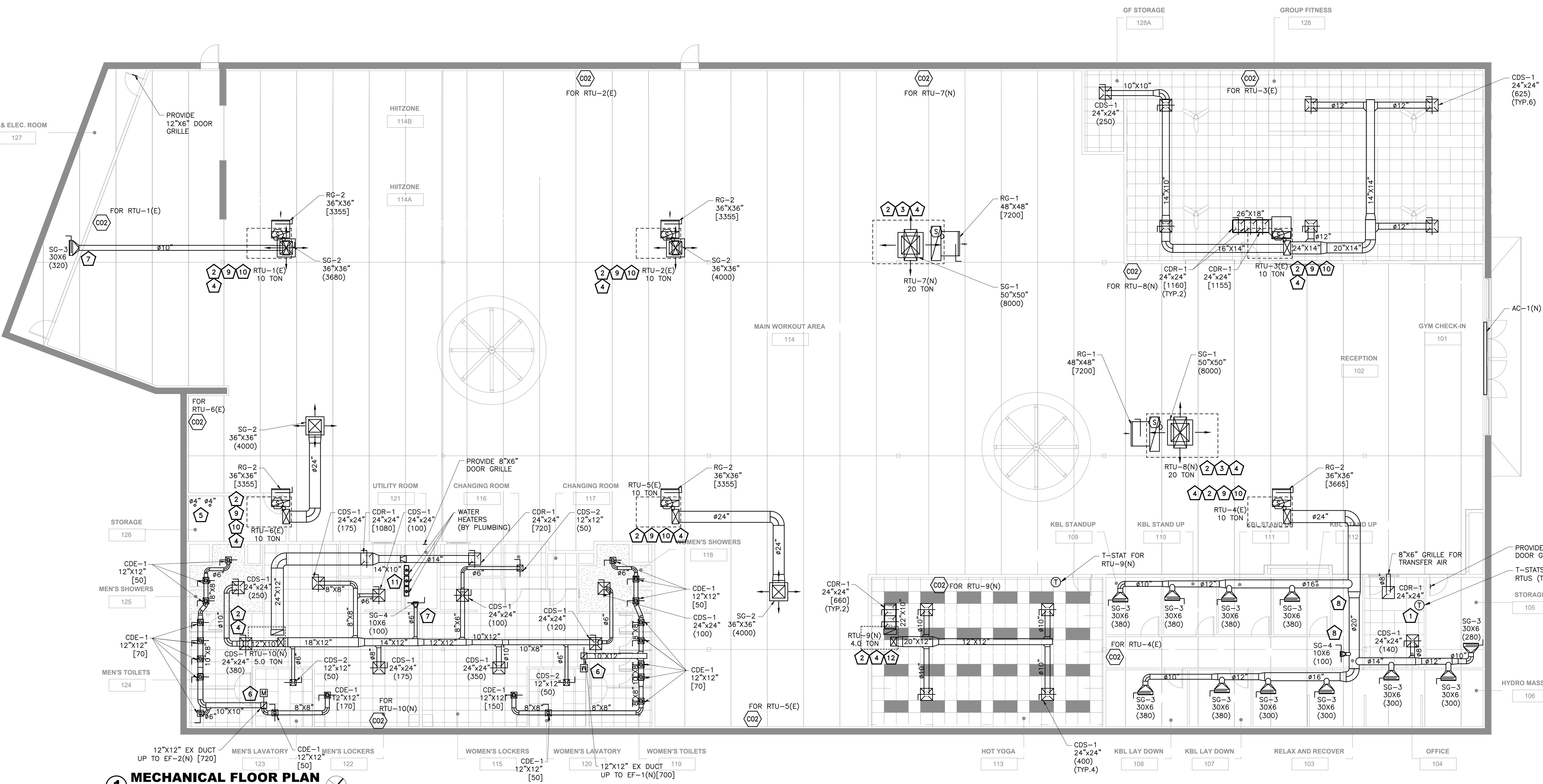
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MECHANICAL GENERAL NOTES

A. CONTRACTOR SHALL BALANCE EACH DEVICE WITH THE CFM SHOWN ON PLAN.

B. NEW DUCTWORK SHOWN ON PLAN ARE SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING, OFFSET AND RUN PIPING, DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ANY EXTRA PIPING, DUCTWORK, FITTINGS, INSULATIONS AND OTHER ACCESSORIES IN ORDER TO COMPLETE THE INSTALLATION.

C. COORDINATE LOCATIONS AND SIZES OF ROOF OPENINGS WITH OWNERS AND STRUCTURAL ENGINEERS.

D. EQUIPMENT SIZES AND DIMENSIONS AND EQUIPMENT CONNECTIONS SHALL BE VERIFIED WITH THE ACTUAL EQUIPMENT SELECTED VENDOR DRAWINGS BEFORE FABRICATION OF DUCTWORK, PIPING ETC.

E. DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE AIR STREAM DIMENSIONS.

F. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL HVAC BASED ON ACTUAL EQUIPMENT SELECTED AND PROVIDED BY OWNER.

G. CONTRACTOR SHALL COORDINATE EQUIPMENT WEIGHTS AND SUPPORTS BASED ON ACTUAL EQUIPMENT SELECTED.

H. COORDINATE WITH ALL TRADES FOR MATERIALS IN RATED AND PLENUM SPACES.

I. ALL SOURCE OF MECHANICAL INTAKE SHALL MAINTAIN 10 LINEAR FEET SEPARATION BETWEEN ANY SOURCE OF EXHAUST. CONTRACTOR IS RESPONSIBLE TO ADJUST DUCT LENGTH AS NEEDED.

J. ALL DUCTWORK INSULATION SHALL BE APPLIED TO EXISTING DUCTWORK.

K. TEST AND BALANCE AIR SYSTEMS. PROVIDE REPORT TO G.C. AND OWNER.

L. MECHANICAL CONTRACTOR TO COORDINATE INSTALLATION OF WATER HEATER EXHAUST FLUE WITH PLUMBING CONTRACTOR.

M. ALL EXPOSED ROUND DUCTWORK SHALL BE INTERNALLY LINED. ALL DUCTWORK DIMENSIONS ARE INSIDE CLEAR.

N. NEW DUCTWORK IN CONCEALED AREAS MAY BE RECTANGULAR WITH EQUIVALENT CROSS SECTIONAL FLOW AREA.

O. PROVIDE FIRE OR FIRE+SMOKE DAMPER WHEREVER DUCTS ARE CROSSING FIRE/SMOKE RATED WALLS/BARRIERS. COORDINATE WITH ARCHITECTURE DRAWINGS FOR FIRE RATINGS OF THE WALLS.

P. CONTRACTOR TO FIELD VERIFY EXISTING DUCTWORK AND ASSOCIATED ACCESSORIES AND EXISTING HVAC EQUIPMENT. ALL EXISTING DUCTWORK AND ASSOCIATED ACCESSORIES SHALL BE DEMOLISHED.

Q. PROVIDE MINIMUM INSULATION INTERNAL OR EXPOSED DUCTS AND EXTERNAL FOR CONCEALED DUCTS FOR SUPPLY & RETURN AIR DUCTS. PROVIDE ACOUSTIC INSULATION ON MAIN SUPPLY AND RETURN DUCTS UP TO 10 FT. FROM HVAC UNIT.

R. ARCHITECTURAL LAYOUT AND DIMENSIONS FOR FITNESS EQUIPMENT TO TAKE PRECEDENCE OVER MEP.

S. ALL SUPPLY AND RETURN AIR PLENUMS SHALL BE STENCILED WITH RTU NUMBERS FOR IDENTIFICATION.

CO2 SENSOR AND INSTALLATION NOTES

MODULATING OUTSIDE AIR DAMPER:

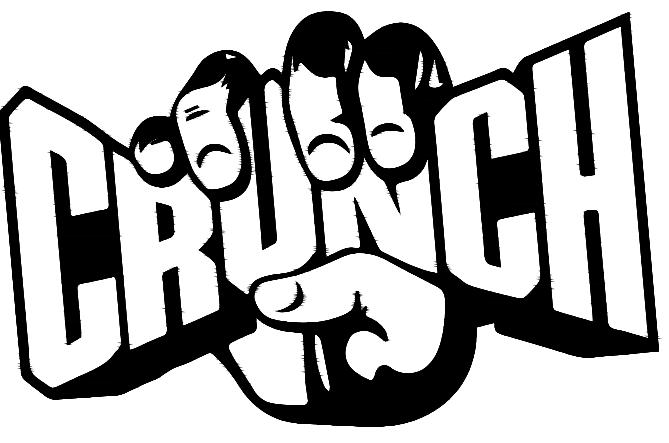
- UNOCCUPIED MODE REMAINS SHUT AT ALL TIMES DURING UNOCCUPIED MODE.
- OCCUPIED MODE: ENERGIZED WHEN FAN IS RUNNING, CLOSED WHEN FAN IS NOT RUNNING. DAMPER SHALL MODULATE BASED ON SIGNAL FROM CO2 SENSORS TO MAINTAIN LEVEL AT OR BELOW 600 PPM ABOVE AMBIENT LEVEL. THE AMBIENT LEVEL CAN BE ASSUMED TO BE 400 PPM.
- COMMERCIAL SENSOR UTILIZES A SIGNAL BEAM ABSORPTION INFRARED DIFFUSION SAMPLE METHOD FOR CO2 DETECTION. USING CO2 AS AN INDICATOR OF OCCUPANCY WILL ALLOW VENTILATION BASED ON ACTUAL OCCUPANCY WHILE MAINTAINING CODE MINIMUM VENTILATION.
- SENSORS TO MONITOR OUTSIDE AIR QUANTITIES THROUGH ECONOMIZER DAMPER ACTUATOR AND IN CONTROL AMOUNT BETWEEN 10% AND 100% OUTSIDE AIR.
- SENSOR SHALL BE PROVIDED WITH ROOFTOP AIR CONDITIONING UNIT AND INSTALL PER MANUFACTURER REQUIREMENTS.
- CO2 SENSORS SHALL BE LOCATED WITHIN THE BREATHING ZONE BETWEEN 3' TO 6' ABOVE FINISHED FLOOR.

MECHANICAL FLOOR PLAN KEY NOTES:

- LOCATE ALL T-STATS NEAR FRONT DESK/MANAGER OFFICE. MECHANICAL CONTRACTOR TO COORDINATE T-STAT LOCATION WITH TENANT. INSTALL AND WIRE NEW 7-DAY PROGRAMMABLE THERMOSTAT WITH RESPECTIVE T-STAT. PROVIDE INSULATION AT THE BACK.
- O. HONEYWELL WI-FI THERMOSTATS 8000 SERIES OR ABOVE
- EXTEND FULL SIZE SUPPLY & RETURN DUCTWORK FROM ROOFTOP UNITS TO SPACE. EXTEND AS SHOWN. ACOUSTICALLY LINE THE FIRST 10'-0" OF BOTH SUPPLY AND RETURN MAIN DUCTS.
- SMOKE DETECTOR SHALL BE FURNISHED/INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR TO SHUT DOWN CORRESPONDING RTU UNDER ALARM CONDITIONS. ALL WIRING SHALL BE IN CONDUIT PER N E C SMOKE DETECTOR MODEL DH100ACDCLP OR EQUAL.
- PROVIDE REMOTE TEMP SENSOR MOUNTED IN RETURN DUCT AND WIRE BACK TO T-STAT NEAR FRONT DESK.
- PROVIDE 4" DRYER VENT & RECESSED DRYER BOX. EXTEND TO EXTERIOR WITH DRYER VENT CAP. PROVIDE INLINE BOOSTER FAN AS NECESSARY PER MANUFACTURER INSTRUCTIONS.
- MD TO INTERLOCK WITH EXHAUST FANS.
- IF WALL IS FIRE RATED PROVIDE FIRE DAMPER.
- COORDINATE WITH LIGHTING PLAN AND ELECTRICAL ENGINEER.
- RELOCATE AND REUSE EXISTING THERMOSTAT. IF EXISTING THERMOSTAT IS NOT IN CONDITION TO REUSE THEN INSTALL AND WIRE NEW 7-DAY PROGRAMMABLE THERMOSTAT. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- A. HONEYWELL WI-FI THERMOSTATS 8000 SERIES OR ABOVE
- REUSE EXISTING SMOKE DETECTOR. IF EXISTING SMOKE DETECTOR IS NOT IN CONDITION TO REUSE, THEN INSTALL NEW ONE. SMOKE DETECTOR SHALL BE FURNISHED/INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR TO SHUT DOWN CORRESPONDING RTU UNDER ALARM CONDITIONS. ALL WIRING SHALL BE IN CONDUIT PER N E C SMOKE DETECTOR MODEL DH100ACDCLP OR EQUAL.
- Ø3"-Ø5" CONCENTRIC VENT FROM HOT WATER HEATERS. TERMINATE VENT AT LEAST 36" ABOVE ROOF. INSTALL AS PER MANUFACTURES RECOMMENDATIONS.
- FOR RTU-9(N), COOLING MODE TO BE DISABLED WHEN HOT CEILING PANELS ARE ACTIVE. TENANT TO DEVELOP WRITTEN PROCEDURE FOR OPERATION. THERMOSTAT FOR RTU-9(N) TO BE LOCATED IN THIS ROOM.

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:	1/8" = 1'-0"	
DATE:	10/27/2023	
PROJECT NO:	22-45	

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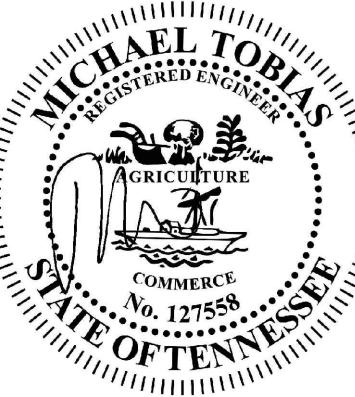
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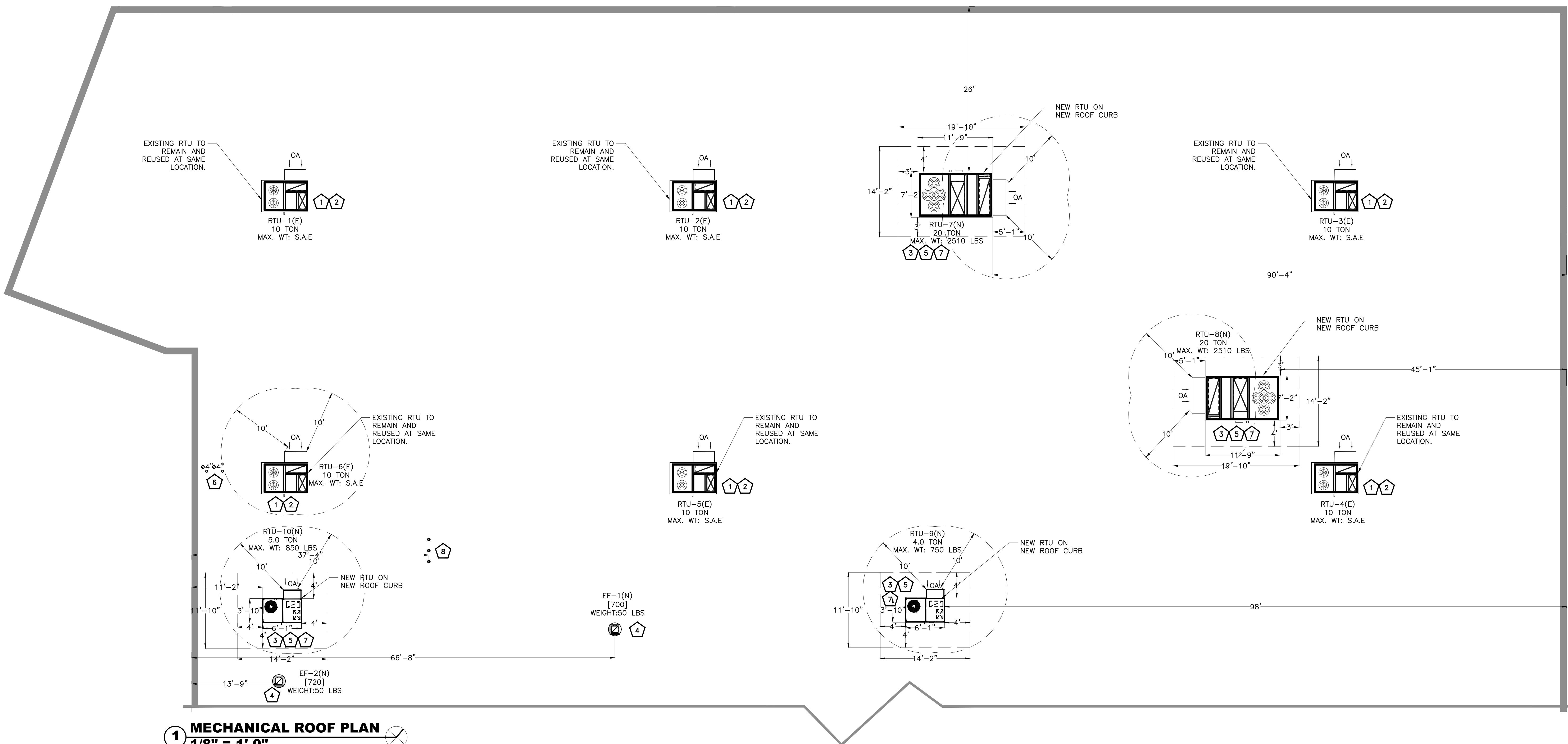
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MECHANICAL GENERAL NOTES:

- A. COORDINATE LOCATIONS AND SIZES OF ROOF OPENINGS WITH OWNER AND STRUCTURAL ENGINEERS.
- B. EQUIPMENT SIZES, DIMENSIONS AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE ACTUAL EQUIPMENT SELECTED VENDOR DRAWINGS BEFORE FABRICATION OF DUCTWORK, PIPING, ETC.
- C. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL HVAC BASED ON ACTUAL EQUIPMENT SELECTED PRIOR TO INSTALLATION.
- D. ALL SOURCE OF MECHANICAL INTAKE SHALL MANTAIN 10 LINEAR FEET SEPARATION BETWEEN ANY SOURCE OF EXHAUST. CONTRACTOR IS RESPONSIBLE TO ADJUST DUCT LENGTH AS NEEDED.
- E. TEST AND BALANCE AIR SYSTEMS. PROVIDE REPORT TO GENERAL CONTRACTOR AND OWNER.
- F. ALL RTU WEIGHTS ARE INCLUDING ROOF CURBS AND/OR ADAPTERS.
- G. EXISTING ROOF CURBS TO BE REUSED WHEREVER POSSIBLE. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING CURBS, REPLACE EXISTING CURB IF NOT IN A GOOD CONDITION.
- H. INSTALL NEW RTUS ON NEW ROOF CURBS. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF EXISTING UNITS.
- I. PATCH THE EXTRA PENETRATIONS AS & IF REQUIRED OR CUT AN EXTRA PORTION OF THE ROOF. EXISTING PENETRATION IS NOT FEASIBLE/WORKABLE FOR NEW UNITS. COORDINATE WITH ROOFING AND MECHANICAL CONTRACTOR.
- J. IF EXISTING ROOF CURBS ARE DAMAGED OR NOT REUSABLE, REPLACE WITH NEW ROOF CURB REQUIRED AND REDO ROOFING. COORDINATE WITH ROOFING CONTRACTOR.
- K. REPAIR/REPLACE EXISTING EQUIPMENT/ MATERIALS NOT SCHEDULED OR NOTED TO BE DEMOLISHED OR BECOME DAMAGED DURING THE PROGRESS OF THE WORK. MAKE ANY AND ALL SUCH REPAIRS/REPLACEMENTS, MODIFICATIONS TO RESTORE THE DAMAGED ITEMS TO THEIR ORIGINAL CONDITIONS AT THE TIME OF DAMAGE, TO THE SATISFACTION OF AND AT NO ADDITIONAL COST TO THE OWNER.

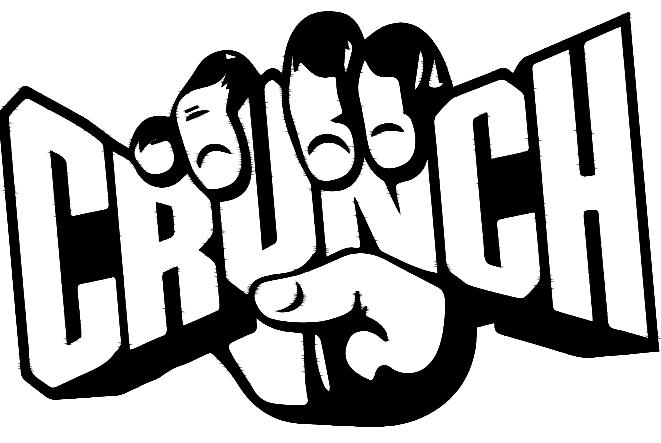
MECHANICAL ROOF PLAN KEY NOTES:

- ① CONDENSATE DRAIN TO REMAIN AS IT IS FOR ALL EXITING RTUS. CONTRACTOR TO FLUSH THE EXISTING DRAIN.
- ② EXISTING EQUIPMENT TO REMAIN SAME AND TO BE REUSED WITH ALL ITS EXISTING ACCESSORIES. CONTRACTOR TO FIELD VERIFY LOCATION OF THE EQUIPMENT ON SITE & INFORM TO ARCHITECT IF ANY ACCESSORIES NOT WORKING OR NOT IN GOOD CONDITION.
- ③ NEW ROOFTOP UNIT IS PROVIDED. PROVIDE FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCT CONNECTIONS. SET OUTSIDE AIR AS INDICATED ON ROOFTOP UNIT SCHEDULES. MECHANICAL CONTRACTOR SHALL SCRIBE INTO UNIT POSITION OF OUTSIDE AIR DAMPER AND LABEL OUTSIDE AIR VOLUME AND PERCENT OF OUTSIDE AIR TRANSITION AND CONNECT SUPPLY AND RETURN DUCTWORK FROM BELOW. COORDINATE ROUTING THROUGH STRUCTURAL TRUSSES AND OFFSET AS REQUIRED IN CURB SPACE.
- ④ EXHAUST TERMINATION TO BE 10 FT. AWAY FROM ANY OUTDOOR INTAKE OPENING.
- ⑤ PROVIDE NEW ROOF CURB.
- ⑥ PROVIDE 4" DRYER VENT & RECESSED DRYER BOX. EXTEND TO EXTERIOR WITH DRYER VENT CAP. PROVIDE INLINE BOOSTER FAN AS NECESSARY PER MANUFACTURER INSTRUCTIONS.
- ⑦ PROVIDE HORIZONTAL SLOPE TO DRAIN PIPING IN THE DIRECTION OF DISCHARGE OF NOT LESS THAN 1/8 UNIT VERTICAL IN 12 UNITS HORIZONTAL (1% SLOPE).
- ⑧ 63" / 95" CONCENTRIC VENT FROM HOT WATER HEATERS. TERMINATE VENT AT LEAST 36" ABOVE ROOF. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.

MECHANICAL ROOF PLAN

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:	1/8" = 1'-0"	
DATE:	10/27/2023	
PROJECT NO:	22-45	

M100.2

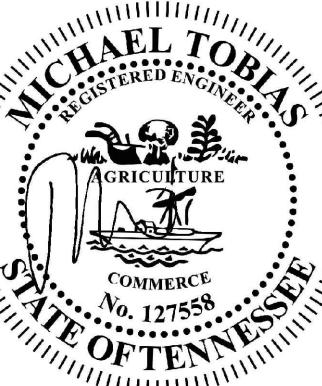


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CONSTRUCTION DRAWINGS
APN: 09700013000

MECHANICAL DETAILS (1 OF 2)

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:	N.T.S.	
DATE:	10/27/2023	
PROJECT NO:	22-45	

M500.1

1 TYPICAL ROOF TOP UNIT DETAILS M500.1 N.T.S.

2 ROOF TOP UNIT INSTALLATION DETAIL M500.1 N.T.S.

3 ROOF MOUNTED EXHAUST FAN DETAIL M500.1 N.T.S.

4 METHOD OF HANGING ROUND DUCTWORK M500.1 N.T.S.

5 DUCT HANGING DETAILS M500.1 N.T.S.

6 VIBRATION ISOLATOR DETAIL M500.1 N.T.S.

7 LOW VELOCITY DUCTWORK DETAILS M500.1 N.T.S.

8 LOW PRESSURE BALANCING DAMPER M500.1 N.T.S.

9 SUPPLY AIR DUCTWORK SUB-MAIN/BRANCH DUCT CONNECTION M500.1 N.T.S.

10 TYPICAL DIFFUSER CONNECTION DETAIL M500.1 N.T.S.

DUCT HANGER SCHEDULE

DUCT CROSS SECTIONAL AREA	STRAP HANGER SIZE	MAX. SPACING
UNDER 2 SQ. FT.	1" X 1/16"	6'-0" O.C.
2 TO 4 SQ. FT.	1" X 1/8"	8'-0" O.C.
4 TO 8 SQ. FT.	1" X 1/8"	6'-0" O.C.
OVER 8 SQ. FT.	1" X 1/8"	4'-0" O.C.

B.S.A. # 469-74-SM EXPANSION BOLT

NOTE: 1. DUCTS SHALL NOT BE HUNG FROM OR SUPPORTED BY HUNG CEILING.
2. FOR ALL DUCTS, HANGERS SHALL BE TURNED UNDER AND FASTENED TO THE BOTTOM OF DUCT AS SHOWN ABOVE.
3. FRICTION OR CADDY CLIP ATTACHMENT TO STRUCTURE IS NOT PERMITTED.

OPPOSED ACTION LINKAGE ASSEMBLY.

20 GA. QUADRANT MOUNTING BRACKET ON INSULATED DUCT ONLY.

DAMPER REGULATOR, ONE REGULATOR FOR EACH TWO BLADES.

PROVIDE FOR EACH DAMPER END 4" X 4" X 20 GAUGE SUPPORTS RIVETED TO DUCT.

3/8" SQUARE ROD W/ WASHER EACH END.

PROVIDE BEARINGS AT BOTH ENDS (GRIND ROD ROUND).

DAMPER ROD CLIP

20 GAUGE OPPOSED ACTION DAMPER-EDGES CRIMPED AS SHOWN. (MAX. BLADE HTG. 12")

NOTE: 1. FOR DUCTS OVER 29" WIDE AND/OR OVER 12" HIGH.

O.B.V.D. MAIN DUCT AIR FLOW SUB-MAIN/BRANCH DUCTWORK 3/4" D 45° CLINCH COLLAR 45° OPPosed BLADE VOLUME DAMPER (O.B.V.D.) N = W1 X BRANCH Duct CFM MAIN Duct CFM W2

NOTE: FURNISH THIS TYPE CONNECTION WHEN SINGLE LINE DUCTWORK IS INDICATED AS THIS

WRAP ALL BRANCH DUCTS AND COVER CONNECTIONS WITH DUCT WRAP SEE SPECIFICATIONS

1"X16 GA. HANGER STRAP STAINLESS STEEL SCREW DRIVER OPERATED BAND (TYPICAL)

UL 181 LABELED INSULATED FLEX DUCT. SEE SPECS. NO SAGS OR SHARP TURNS ALLOWED. MAXIMUM LENGTH LIMITED TO 3'-0" STRETCH DUCT RUN FOR SMOOTH INTERIOR

ROUND RIGID DUCT T-BAR FOR LAY IN ON HARD CEILINGS LAY IN CEILING DIFFUSER

ACCEPTABLE FOR 170 MPH ZONE

VERIFY ON SITE WITH GENERAL CONTRACTOR

NOTES :

1. DUCT CONSTRUCTION SHALL CONFORM TO LOW PRESSURE MATONA CONSTR. STD.
2. DUCTS SHALL BE FABRICATED WITH LONGITUDINAL SEAMS.
3. PROVIDE ONE PRIME-COAT PAINT FOR ROUND DUCTS INSTALLED IN EXPOSED AREAS.

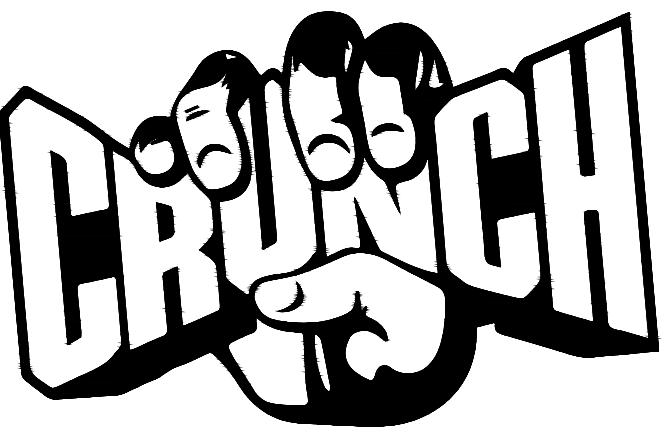
EXISTING CONCRETE SLAB

STRAP HANGER (1"X20 GA. THK) 10'-0" MAX. ON CENTER.

LOAD RATED FASTENER

DUCT

1"X20 GA. GALVANIZED STEEL BAND.

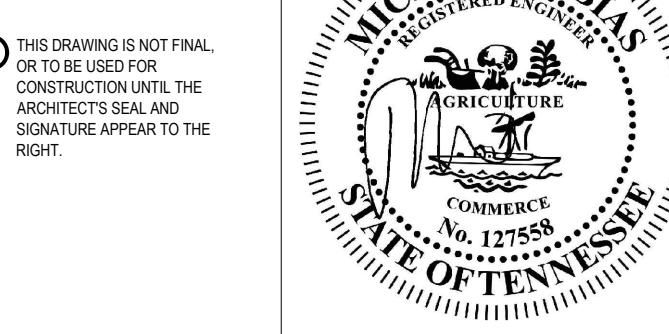


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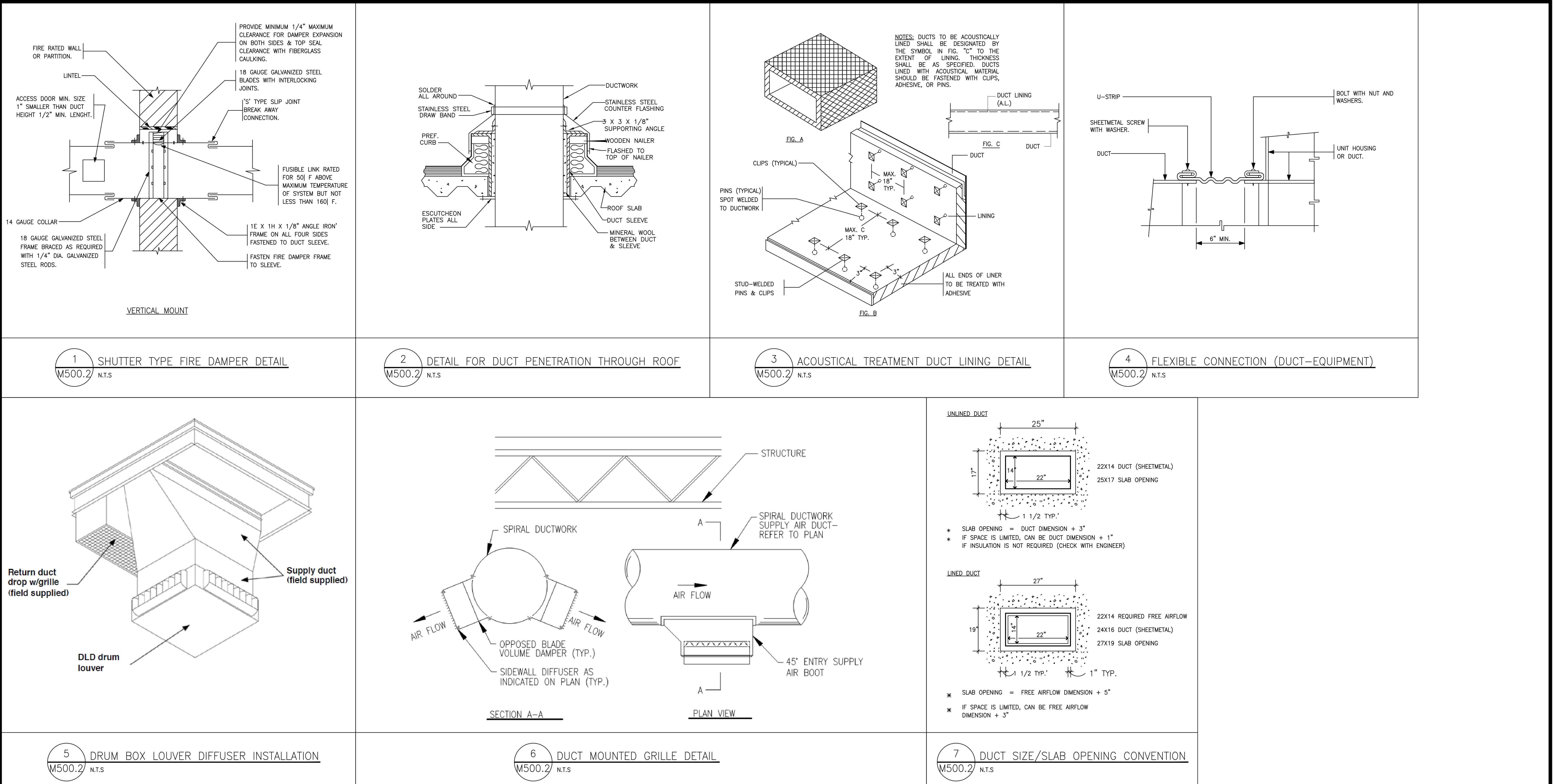
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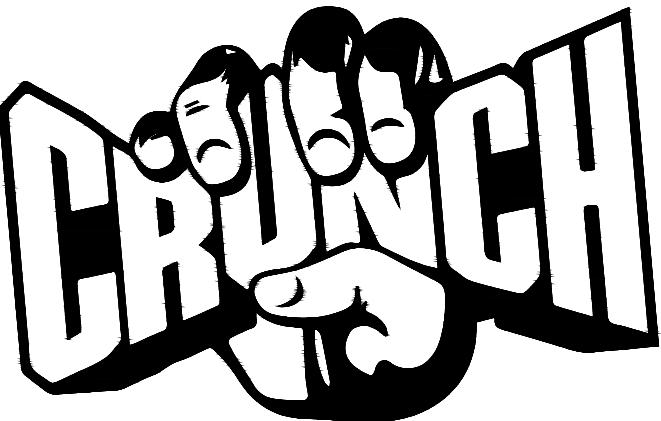
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MECHANICAL DETAILS
(2 OF 2)

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
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SCALE:	N.T.S.	
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M500.2





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CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR DIMENSIONS AND CONDITIONS ON THE JOB SITE, AND THIS OFFICE SHALL BE NOTIFIED OF VARIATIONS FROM THE DIMENSIONS AND CONDITIONS AS SHOWN ON THESE DRAWINGS.

UNIT ID	MANUFACTURER	MODEL	NOMINAL TONS	ROOF TOP UNIT SCHEDULE																				
				SUPPLY FAN DATA			GAS HEAT			COOLING DATA			ELECTRICAL DATA						THERMAL EFFICIENCY (%)	OPERATING WEIGHT (LBS)	FACTORY INSTALLED ACCESSORIES	FIELD INSTALLED ACCESSORIES	REMARK	
				TOTAL CFM	OUTSIDE AIR CFM	EXTERNAL STATIC PRESSURE (IN. W.G.)	INPUT MBH	OUTPUT MBH	TOTAL MBH	SENSIBLE DB (°F)	AMBIENT TEMP DB (°F)	ENTERING TEMP DB / WB (°F)	STAGES	VOLTS	PHASE	MCA(A)	MOP(A)	EER	I EER	SEER				
RTU-1(E)	SAE	48TCDD12A2 (VIF)	10	4000	645	SAE	180 (V.I.F)	148 (V.I.F)	SAE	SAE	SAE	SAE	53 (V.I.F)	60 (V.I.F)	SAE	SAE	SAE	SAE	SAE	SAE	SAE	SAE	EXISTING	
RTU-2(E)	SAE	48TCDD12A2 (VIF)	10	4000	645	SAE	180 (V.I.F)	148 (V.I.F)	SAE	SAE	SAE	SAE	53 (V.I.F)	60 (V.I.F)	SAE	SAE	SAE	SAE	SAE	SAE	SAE	SAE	EXISTING	
RTU-3(E)	SAE	48TCDD12A2 (VIF)	10	4000	525	SAE	180 (V.I.F)	148 (V.I.F)	SAE	SAE	SAE	SAE	53 (V.I.F)	60 (V.I.F)	SAE	SAE	SAE	SAE	SAE	SAE	SAE	SAE	EXISTING	
RTU-4(E)	SAE	48TCDD12A2 (VIF)	10	4000	335	SAE	180 (V.I.F)	148 (V.I.F)	SAE	SAE	SAE	SAE	53 (V.I.F)	60 (V.I.F)	SAE	SAE	SAE	SAE	SAE	SAE	SAE	SAE	EXISTING	
RTU-5(E)	SAE	48TCDD12A2 (VIF)	10	4000	645	SAE	180 (V.I.F)	148 (V.I.F)	SAE	SAE	SAE	SAE	53 (V.I.F)	60 (V.I.F)	SAE	SAE	SAE	SAE	SAE	SAE	SAE	SAE	EXISTING	
RTU-6(N)	CARRIER	48FCDM24B2 (OR EQUIVALENT)	10	8000	1200	0.7	310	251	256.07	184.89	95	80/67	2	208	3	100.0	125	10.20	N/A	81.0	2510	3.6,7	4,5,8,9,13,16,17,18	
RTU-7(N)	CARRIER	48FCDM24B2 (OR EQUIVALENT)	20	8000	800	0.7	310	251	256.07	184.89	95	80/67	2	208	3	100.0	125	10.20	N/A	81.0	2510	3.6,7	4,5,8,9,13,16,17,18	
RTU-8(N)	CARRIER	48FCDM24B2 (OR EQUIVALENT)	20	8000	800	0.7	310	251	256.07	184.89	95	80/67	2	208	3	100.0	125	10.20	N/A	81.0	2510	3.6,7	4,5,8,9,13,16,17,18	
RTU-9(N)	CARRIER	48GCCJ05A2 (OR EQUIVALENT)	4	1600	280	0.7	110	88	35.7	25.6	95	80/67	2	208	3	29	40	12.80	N/A	17.40	80.0	750	3.6,7	4,5,9,13,17,18
RTU-10(N)	CARRIER	48FCEA06B2 (OR EQUIVALENT)	5	2000	200	0.7	110	88	49.2	37.9	95	80/67	1	208	3	29	40	11.00	N/A	14.00	80.0	850	3.6,7	4,5,8,9,13,17,18

NOTES FOR NEW RTUs:

1. ALL DEDPROPS MUST MEET OR EXCEED THE BRANDS MINIMUM REQUIREMENTS.

2. ELECTRICAL CONNECTION TO BE SINGLE POINT AND TO BE THROUGH THE BOTTOM OF THE UNIT.

3. PROVIDE DISCONNECT SWITCH AND AN UNPOWERED GFCI RECEPTACLE.

4. 1/4" ROOF CURB - CONTRACTOR SHALL FIELD INSULATE. SHIP ASAP AHEAD OF THE UNIT.

5. CONDENSATE DRAIN WITH 2" DEEP VENTED TRAP DISCHARGE TO SPLASH BLOCK ON ROOF.

6. CABINET WITH 1/2" FIBERGLASS INSULATION.

7. UNIT SHALL BE COMPLETE WITH GAS HEATING SECTION. GAS REGULATOR TO RECEIVE 4.5"-14" GAS PRESSURE FROM MAIN GAS LINE.

8. DRY BULB ECONOMIZER (OPTIMIZED FOR 125% MAXIMUM LOAD) INCLUDE AIR DAMPER ASSEMBLY WITH HOOD (ZONE 'E' ONLY). PROVIDE ECONOMIZER WITH FDD.

9. 24 VAC, 240 VAC, AUTOMATIC CHANGER, 2-STAGE HEAT / COOL, REMOTELY PROGRAMMABLE THERMOSTAT.

10. REMOTE SENSORS SHALL BE PROVIDED IN RETURN & WIRED BACK TO PROGRAMMABLE, 24 HOUR, 7 DAY, THERMOSTATS.

11. THERMOSTAT SPECIFICATION: HONEYWELL Wi-Fi SERIES (SERIES 8000 OR ABOVE).

12. ANTI SHORT CYCLE TIMER.

13. THROWAWAY 2" FILTERS (MERV-8).

14. WHERE REQUIRED, PROVIDE LOW AMBIENT COOLING CAPABILITY DOWN TO 0 DEGREES F.

15. PROVIDE ALL COMPRESSORS WITH 5 YEAR WARRANTY.

16. PROVIDE AIR SUPPLY AIR SMOKE DETECTOR - UNIT MOUNTED.

17. VFD SUPPLY FAN.

18. PROVIDE HAIR GUARD.

NOTES FOR EXISTING RTUs:

19. S.A.E.: SAME AS EXISTING. V.I.F.: VERIFY IN FIELD.

20. EXISTING RTUs WITH ALL ACCESSORIES TO REMAIN SAME AND TO BE REUSED.

21. CONTRACTOR TO CONFIRM IF EXISTING RTUs ARE WORKING AT 100% RATED CAPACITY.

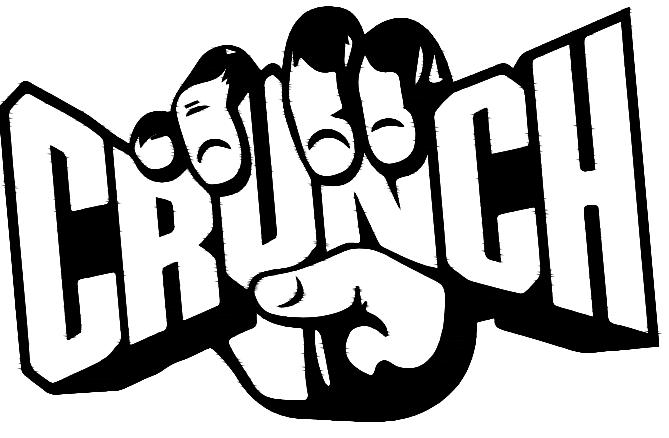
22. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND CONFIGURATION OF RTUs ON SITE.

23. AS REQUIRED, PROVIDE NEW THERMOSTATS AND TEMPERATURE SENSORS COMPATIBLE WITH EXISTING RTUs; COORDINATE FINAL LOCATION WITH ARCHITECT/OWNER.

24. CONTRACTOR TO DEBALANCE OUTSIDE AIR & RETURN AIR DAMPERS ON EXISTING RTUs TO MATCH VALUES MENTIONED IN ABOVE TABLE.

25. REPLACE ALL THE FILTERS, IF REQUIRED. PROVIDE MINIMUM MERV-8 FILTERS.

ROOM NAME		AREA (SQ.FT.)	NUMBER OF PEOPLE/1000sq.ft AS PER 2018 IMC	NUMBER OF PEOPLE AS PER 2018 IMC	NUMBER OF CHAIR	FINAL PEOPLE NO.	MIN OUTSIDE AIR AS PER IMC 2018		REQ. OA (CFM)	PROVIDED OA (CFM)	EXHAUST AIRFLOW RATE AS PER IMC 2018 (CFM/SQ.FT OR FIXT.)	REQ. EXHAUST (CFM)	PROVIDED EXHAUST (CFM)
							CFM/PEOPLE	CFM/SQ.FT					
MAIN WORKOUT AREA		15350	10	154	137	150	20	0.06	3921	0	0	0	0
FSR & ELEC. ROOM		286	0	0	0	0	0.12	35	4180	0	0	0	0
RECEPTION		1570	30	48	25	25	5	0.06	220	0	0	0	0
WOMEN'S LOCKERS		580	0	0	0	0	0	0	145	0	0	0	0
WOMEN'S TOILET		194	0	0	0	0	0	0	350	0	0	0	0
WOMEN'S SHOWER		111	0	0	0	0	0	0	150	0	0	0	0
WOMEN'S LAVATORY		90	0	0	0	0	0	0	50	0	0	0	0
WOMEN'S CHANGING 116		52	0	0	0	0	0	0	0	0	0	0	0
WOMEN'S CHANGING 117		52	0	0	0	0	0	0	0	0	0	0	0
MENS LOCKERS		673	0	0	0	0	0	0	168.25	0	0	0	0
MENS TOILET		194	0	0	0	0	0	0	350	0	0	0	0
MENS SHOWER		111	0	0	0	0	0	0	150	0	0	0	0
MENS LAVATORY		90	0	0	0	0	0	0	50	0	0	0	0
UTILITY		58	0	0	0	0	0	0	0	0	0	0	0
STORAGE 126		123	0	0	0	0	0	0.12	200	0	0		



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APN: 09700013000

ELECTRICAL SYMBOLS LIST				GENERAL NOTES (APPLY TO ALL "E" DRAWINGS)
ELECTRICAL ABBREVIATIONS				
A	AMPERES	EA	EACH	
A/C, AC	AIR CONDITIONING UNIT	EC	EMPTY CONDUIT/ ELECTRICAL CONTRACTOR	
AF	AMPERE FRAME/AMP FUSE	EF	EXHAUST FAN	
AFF	ABOVE FINISHED FLOOR	EM	EMERGENCY	
AS	AMP SWITCH	EMT	ELECTRICAL METALLIC TUBING	
AIC	AMPS INTERRUPTING CAPACITY	EQUIP	EQUIPMENT	
AT	AMP TRIP	ER	EXISTING TO BE RELOCATED	
ATS	AUTOMATIC TRANSFER SWITCH	ETR	EXISTING TO REMAIN	
AUTO	AUTOMATIC	EWF	ELECTRIFIED WORKSTATION FURNITURE	
AWG	AMERICAN WIRE GAUGE	EWH	ELECTRIC WATER HEATER	
C	CONDUIT	FA	FIRE ALARM	
C/B,CB	CIRCUIT BREAKER	FBO	FURNISHED BY OTHERS, INSTALLED & WIRED BY EC	
CKT	CIRCUIT	FDR	FEEDER	
CLG	CEILING	FIBO	FURNISHED & INSTALLED BY OTHERS, WIRED BY EC	
COMM	COMMUNICATION	FIIXT	FIXTURE	
CT	CURRENT TRANSFORMER	FL	FLOOR	
CU	COPPER	FLUOR	FLUORESCENT	
°C	DEGREE CELSIUS	G	GROUND	
°F	DEGREE FAHRENHEIT	GFI	GROUND FAULT INTERRUPTER	
DIA	DIAMETER	GP	GENERAL PURPOSE	
DISC	DISCONNECT	HC	HUNG CEILING	
DN	DOWN	HP	HORSEPOWER	
DP	DISTRIBUTION PANEL	HWH	HOW WATER HEATER	
DWH	DOMESTIC WATER HEATER	Hz	HERTZ	
DWG	DRAWING	IC	INTERRUPTING CAPACITY	
JB	JUNCTION BOX	PP	POWER PANEL	
KCMIL	ONE THOUSAND CIRCULAR MILS	PVC	POLYVINYL CHLORIDE	
KV	KILOVOLT	PWR	POWER	
KVA	KILOVOLT-AMPERES	R	REMOVE	
KW	KILOWATTS	RE	RELOCATED EXISTING	
LP	LIGHTING PANEL	REC	RECEPTACLE	
LTG	LIGHTING	RGS	RIGID GALVANIZED STEEL	
MAX	MAXIMUM	RR	REMOVE & RELOCATE	
MC	MOTOR CONTROLLER	SECT	SECTION	
MCB	MAIN CIRCUIT BREAKER	SPDT	SINGLE POLE DOUBLE THROW	
MIN	MINIMUM	SPST	SINGLE POLE SINGLE THROW	
MLO	MAIN LUGS ONLY	SPEC	SPECIFICATION	
MTD	MOUNTED	SW	SWITCH	
MTS	MANUAL TRANSFER SWITCH	SWBD	SWITCHBOARD	
N	NEUTRAL	SYM	SYMMETRICAL	
NE	NEW DEVICE TO REPLACE EXISTING	SYS	SYSTEMS	
NIC	NOT IN CONTRACT	TELE	TELEPHONE	
NL	NIGHT LIGHT	TEMP	TEMPERATURE	
NTS	NOT TO SCALE	TXF	TOILET EXHAUST FAN	
P	POLES	TYP	TYPICAL	
PB	PULLBOX	UON	UNLESS OTHERWISE NOTED	
PC	PERSONAL COMPUTER	V	VOLT/VOLTAGE	
Φ	PHASE	VA	VOLT AMPERE	
PNL	PANEL	WP	WEATHER PROOF	
W	WATT	W	WIRE	
E	EXISTING	WH	WALL HEATER	

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
Ⓐ	JUNCTION BOX
Ⓑ	WALL SWITCH (SINGLE, DOUBLE.)
Ⓒ	WALL SWITCH (3 WAY, 4 WAY)
Ⓓ	WALL SWITCH (TIMER)
Ⓔ	DIMMER WALL SWITCH
Ⓕ	OCCUPANCY SENSOR WALL SWITCH
Ⓖ	VARIABLE SPEED SWITCH
Ⓗ	SIMPLEX RECEPTACLE, +18' AFF OR AS NOTED. SUFFIX DENOTES FOLLOWING: A - NEMA 5-15R B - NEMA 6-15R C - NEMA 14-30R D - NEMA 14-50R E - NEMA L6-30R
Ⓘ	DUPLEX RECEPTACLE
Ⓛ	DUPLEX RECEPTACLE, 48" TO AFF, BATHS AND TOPS
Ⓜ	HALF SWITCHED DUPLEX RECEPTACLE
Ⓝ	230 VOLT RECEPTACLE
Ⓣ	QUADRUPLEX RECEPTACLE
Ⓛ	FLOOR MOUNTED, FLUSH DUPLEX RECEPTACLE
Ⓜ	FLOOR MOUNTED, FLUSH 230 VOLT RECEPTACLE
Ⓣ	FLOOR MOUNTED, FLUSH QUAD. RECEPTACLE
Ⓛ	CEILING MOUNTED DUPLEX RECEPTACLE
Ⓜ	DISCONNECT SWITCH
Ⓣ	TELEVISION OUTLET
Ⓜ	TELEPHONE OUTLET
Ⓣ	TELEPHONE DATA OUTLET
Ⓛ	DATA OUTLET
Ⓜ	FLOOR MTD. FLUSH TELEPHONE/DATA OUTLET
Ⓣ	QUAD. DATA OUTLET RJ45
Ⓣ	THERMOSTAT DEVICE
Ⓜ	AC OUTDOOR UNIT MOTOR AS NOTED WITH WEATHERPROOF CONTROLLER AND DISCONNECT SWITCH WITH
Ⓣ	NON FUSED DISCONNECT SWITCH AMPERAGE, AND NUMBER OF POLES AS NOTED
Ⓜ	30A/240V NON FUSED DISCONNECT SWITCH
Ⓣ	60A/240V NON FUSED DISCONNECT SWITCH
Ⓜ	100A/240V NON FUSED DISCONNECT SWITCH
Ⓣ	2000A/240V NON FUSED DISCONNECT SWITCH

ELECTRICAL DRAWING LIST	
E001.1	ELECTRICAL SYMBOL LIST, ABBREVIATIONS & GENERAL NOTES
E001.2	ELECTRICAL SPECIFICATIONS SHEET 1 OF 2
E001.3	ELECTRICAL SPECIFICATIONS SHEET 2 OF 2
E100.1	ELECTRICAL LIGHTING PLAN
E200.1	ELECTRICAL POWER PLAN
E200.2	ELECTRICAL ROOF POWER PLAN
E400.1	ELECTRICAL DETAILS SHEET (1 OF 2)
E400.2	ELECTRICAL DETAILS SHEET (2 OF 2)
E500.1	ELECTRICAL RISER DIAGRAM
E600.1	ELECTRICAL PANEL SCHEDULES

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
Ⓐ	WALL SWITCH (SINGLE, DOUBLE.)
Ⓑ	WALL SWITCH (3 WAY, 4 WAY)
Ⓒ	WALL SWITCH (TIMER)
Ⓓ	DIMMER WALL SWITCH
Ⓔ	OCCUPANCY SENSOR WALL SWITCH
Ⓕ	VARIABLE SPEED SWITCH
Ⓖ	OCCUPANCY SENSOR
Ⓗ	DAYLIGHT SENSOR
Ⓛ	LIGHTING CONTROL PANEL
Ⓐ	L-01A RECEPTION / LOBBY AREA
Ⓐ	L-01B RELAX / RECOVER
Ⓛ	L-02 MAIN WORKOUT AREA
Ⓛ	L-03a LOCKER AREA
Ⓛ	L-03b GROUP FITNESS / KIDS CRUNCH
●	L-04 SHOWER / RIDE STUDIO AREA
●	L-05 SAUNA
Ⓛ	L-06 ELECTRICAL / STORAGE / UTILITIES
Ⓛ	L-07 EMERGENCY LIGHTS
Ⓛ	L-08 TRACK LIGHTS
Ⓛ	L-09 LED TAPE LIGHTS
Ⓜ	EM1 EXIST SIGN WITH EM LIGHTS
Ⓜ	EX ILLUMINATED EXIT SIGN
Ⓜ	FA-01 HORN AND STROBE
Ⓜ	FA-02 PULL STATION
Ⓜ	FA-03 SMOKE DETECTOR
Ⓜ	M-01 EXHAUST FAN
Ⓜ	AUD SPEAKER

ELECTRICAL SYMBOL LIST, ABBREVIATIONS & GENERAL NOTES

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:		
DATE:	10/27/2023	
PROJECT NO:	22-45	

E001.1

ELECTRICAL SPECIFICATIONS

- 1. GENERAL:**
- A. REQUIREMENTS:
 - 1) PRODUCTS AND EXECUTION SHALL BE PROVIDED FOR A COMPLETE AND FULLY OPERATIONAL ELECTRICAL SYSTEM THROUGHOUT THE EXTENT OF THE PROJECT, IN CONFORMANCE WITH APPLICABLE CODES, LAWS, ORDINANCES AND AGENCY STANDARDS OF GOVERNING BODY, BUILDING SURVEYORS AND OTHERS ACCORDINGLY WITH THE CONTRACT DOCUMENTS, AND BUILDING STANDARDS.
 - 2) PRODUCTS, INCLUDING EQUIPMENT, DEVICES, FIXTURES, AND MATERIALS SHALL BE NEW UNLESS NOTED OTHERWISE, UL LISTED, AND BEAR APPROPRIATE LABELS.
 - 3) EXCEPT AS NOTED, PREPARATION, INSTALLATION, STARTING, AND TESTING SHALL BE PERFORMED BY SKILLED TRADES PERSONNEL, IN COMPLIANCE WITH THE ASSOCIATED MANUFACTURERS' RECOMMENDATIONS, AND COORDINATED WITH THE OTHER CONSTRUCTION TRADES.
 - B. APPLICABLE LAWS AND AGENCY STANDARDS:
 - 1) AMERICAN NATIONAL STANDARDS, INSTITUTE ANSI
 - 2) AMERICAN SOCIETY FOR TESTING AND MATERIALS ASTM
 - 3) AMERICANS WITH DISABILITIES ACT ADA
 - 4) ASSOCIATION OF EDISON ILLUMINATING COMPANIES AEIC
 - 5) CERTIFIED BALAST MANUFACTURERS CBM
 - 6) ELECTRICAL TESTING LABORATORIES ETL
 - 7) ELECTRONIC/TELECOMMUNICATIONS INDUSTRIES ASSOCIATION EIA/TIA
 - 8) ENERGY POLICY ACT OF 1992 EPACT
 - 9) FEDERAL AVIATION ADMINISTRATION FAA
 - 10) ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA IESNA
 - 11) INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS IEEE
 - 12) INSULATED CABLE ENGINEERS ASSOCIATION ICEA
 - 13) NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEMA
 - 14) NATIONAL FIRE PROTECTION ASSOCIATION NFPA
 - 15) UNDERWRITERS' LABORATORIES UL
 - C. APPROVALS:
 - 1) EMERGENCY AND EXIT LIGHTING DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO THE LOCAL FIRE DEPARTMENT FOR THEIR APPROVAL. IF SYSTEM LAYOUT, CIRCUITING, AND FIXTURES TYPE APPROVED DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION.
 - E. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION," AIA DOCUMENT A201, LATEST EDITION, AND THESE SPECIFICATIONS AS APPLICABLE ARE PART OF THIS CONTRACT.
 - F. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING OF CONDUIT TO AVOID OBSTRUCTIONS. COORDINATION WITH EXISTING SERVICES, INCLUDING THOSE OF OTHER TRADES, IS REQUIRED, MAINTAIN HEADROOM AND SPACE CONDITIONS.
 - G. BIDDERS, BEFORE SUBMITTING PROPOSALS, SHALL VISIT AND CAREFULLY EXAMINE THE AREA AFFECTED BY THIS WORK TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND THE DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK. SUCH AN EXAMINATION IS THE BURDEN OF THE CONTRACTOR AND ANYONE WHOSE EXAMINATION IS MADE, AND LATER CLAIMS WHICH SUCH AN EXAMINATION HAS BEEN MADE, AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT, OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.
 - H. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWING MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
 - I. REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK MAY BE NECESSARY FOR THE PERFORMANCE OF THE GENERAL WORK. ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND INCLUDE ALL CHANGES AND CHARGES IN MAKING UP THE WORK PROPOSAL.
 - J. CONNECTIONS TO EXISTING WORK: INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. EXISTING SHUT-OFFS AND EXISTING EQUIPMENT SHALL BE PERFORMED AT NO ADDITIONAL CHARGE, AT TIMES NOT TO INTERFERE WITH NORMAL OPERATION OF EXISTING FACILITIES AND ONLY WITH WRITTEN CONSENT OF OWNER. ALARM AND EMERGENCY SYSTEMS SHALL NOT BE INTERRUPTED. MAINTAIN CONTINUOUS OPERATION OF EXISTING EQUIPMENT. MAKE NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK. CONNECT NEW WORK TO EXISTING WORK IN NEAT AND ACCEPTABLE MANNER. RESTORE EXISTING DISTURBED WORK TO ORIGINAL CONDITION, INCLUDING MAINTENANCE OF WIRING CONTINUITY AS REQUIRED.
 - K. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.
 - L. SEAL OPENINGS THROUGH PARTITIONS, WALLS AND FLOORS WITH MINERAL WOOL OR OTHER NONCOMBUSTIBLE MATERIAL, UNLESS OTHERWISE NOTED.
 - M. PROVIDE ALL NECESSARY FLASHING AND COUNTER FLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THE BUILDING AS REQUIRED BY THE INSULATOR OR REMOVAL OF CONDUIT AND EQUIPMENT, PROVIDE EQUIPMENT CURBS AS REQUIRED.
 - N. ALL EXISTING MATERIAL, EQUIPMENT AND CONSTRUCTION DEBRIS TO BE REMOVED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE CONTRACTOR WITH THE EXCEPTION OF SPECIFIC EQUIPMENT AND APPURTENANCES REQUIRED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT REMOVE ANYTHING NOT SPECIFIED IN THE DRAWINGS. REMOVED EQUIPMENT SHALL BE PROPERLY DISPOSED OF BY THIS CONTRACTOR.
 - O. THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE BASED ON THE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS, WHEN CORRECTED; HOWEVER, THE CONTRACTOR SHALL DO ALL WORK DURING OVERTIME HOURS AND THE ADDITIONAL COST TO BE CHARGED THEREFOR SHALL BE ONLY THE "PREMIUM" PORTION OF THE WAGES PAID.
 - P. UNLESS OTHERWISE SPECIFICALLY NOTED OR SPECIFIED, INCLUDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN THE EXISTING BUILDING, THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION.
 - Q. ALL MATERIAL AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
 - R. INSURANCE: PROVIDE IN ACCORDANCE WITH OWNER/BUILDING REQUIREMENTS AND SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER.
 - S. THE FINAL ACCEPTANCE SHALL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, TESTED THE VARIOUS SYSTEMS, DEMONSTRATED HIS WORK, FULFILLED THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATE OF INSPECTION AND APPROVAL.

2. GENERAL PROVISIONS FOR ELECTRICAL WORK:

- A. DEFINITIONS:
- 1) "PROVIDE": TO FURNISH, INSTALL AND CONNECT UP COMPLETE AND READY FOR SAFE AND REGULAR OPERATION THE PARTICULAR WORK REFERRED TO UNLESS SPECIFICALLY OTHERWISE NOTED.
 - 2) "INSTALL": TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES.
 - 3) "FURNISH" OR "SUPPLY": TO PURCHASE, PROCURE, ACQUIRE, AND DELIVER COMPLETE WITH RELATED ACCESSORIES.
 - 4) "WORK": LABOR, MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES AND OTHER ITEMS REQUIRED FOR PROPER AND COMPLETE INSTALLATION.
 - 5) "WIRING": RACEWAY, FITTINGS, WIRE, BOXES, AND RELATED ITEMS.
 - 6) "CONCEALED": EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, INSTALLED IN FURRED SPACES, WITHIN DOUBLE PARTITIONS OR HUNG CEILINGS, IN TRENCHES, IN CRAWL SPACES, OR IN ENCLOSURES.
 - 7) "EXPOSED": NOT INSTALLED UNDERGROUND OR "CONCEALED" AS DEFINED ABOVE.
 - 8) "SIMILAR" OR "EQUAL": EQUAL IN MATERIALS, WEIGHT, SIZE, DESIGN AND EFFICIENCY OF SPECIFIED PRODUCT.
- B. QUALITY ASSURANCE
- 1) QUALITY OF MATERIALS: ALL EQUIPMENT SHALL BE NEW SPECIFICATION GRADE, FREE FROM DEFECTS AND LISTED BY APPROVED TESTING AGENCY AND BEARING THEIR LABELS MATERIALS AND EQUIPMENT OF SIMILAR APPLICATION SHALL BE OF SAME MANUFACTURER, EXCEPT AS NOTED.
 - 2) GUARANTEE: ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED AS DEFINED IN PARAGRAPH 2.C.
 - 3) HEIGHTS OF OUTLETS:
 - REFER TO ARCHITECTURAL AND/OR INTERIOR DESIGNER'S PLANS FOR DEVICE HEIGHTS IN NON BOH SPACES.
 - a. FROM FINISHED FLOOR TO CENTERLINE OF OUTLETS FOR:
 - RECEPTACLES AND TELEPHONES: 1 FT - 6 IN.
 - WALL SWITCHES: 4 FT - 0 IN.
 - WALL FIXTURES: 7 FT - 0 IN.
 - MOTOR CONTROLLERS: 5 FT - 0 IN.
 - CLOCKS: 7 FT - 6 IN
 - b. EXCEPTIONS: AT JUNCTION OF DIFFERENT WALL FINISH MATERIALS, ON MOLDING OR BREAK IN WALL SURFACE, IN VIOLATION OF CODE, OR AS NOTED OR DIRECTED.
 - c. REFER TO ARCHITECTURAL AND/OR INTERIOR DESIGNER'S PLANS FOR DEVICE HEIGHTS IN NON BOH SPACES
 - C. PRODUCT DELIVERY, STORAGE AND HANDLING
 - 4) MOVING OF EQUIPMENT: WHERE NECESSARY, SHIP IN CARTED SECTIONS OF SIZE TO PERMIT PASSING THROUGH AVAILABLE SPACES.
 - 5) ACCESSIBILITY: FOR OPERATION, MAINTENANCE AND REPAIR, MINOR DEVIATIONS SHALL BE PERMITTED, CHANGES OF MAGNITUDE OR INVOLVING EXTRA COST ARE NOT PERMISSIBLE WITHOUT REVIEW, GROUP CONCEALED ELECTRICAL EQUIPMENT REQUIRING ACCESS WITH EQUIPMENT FREELY ACCESSIBLE THROUGH ACCESS DOORS.

E. MATERIALS

 - 1) NAMEPLATES: PROVIDE BLACK LAMACOID SHEET WITH 3/4 IN. WHITE LETTERING, FASTENED WITH EPOXY CEMENT FOR EACH DISCONNECT SWITCH, CIRCUIT BREAKER, MOTOR CONTROLLER, AND THE LIKE. NAMEPLATES SHALL DESCRIBE THE NAME AND NUMBER OF EACH COMPONENT.
 - 2) CABLE TAGS: TAG EACH CONDUCTOR PASSING THROUGH SPLICE OR PULLBOX WITH A WHITE LINEN TAG, INDICATING POINT OF ORIGIN AND TERMINATION OF THE CIRCUIT.
 - 3) INSERTS AND SUPPORTS:
 - a. INSERTS: STEEL, SLOTTED TYPE, FACTORY PAINTED.
 - SINGLE ROD: SIMILAR TO GRINNELL FIG. 281.
 - MULTI-ROD: SIMILAR TO FEE AND MASON SERIES 9000 WITH END CAPS AND CLOSURE STRIPS.
 - CLIP FORM NAILS FLUSH WITH INSERTS.
 - MAXIMUM LOADING 75 PERCENT OF RATING.
 - b. SUPPORTS FROM BUILDING CONSTRUCTION: INSERTS, BEAM CLAMPS, STEEL FISHPLATES (IN CONCRETE FILL ONLY), CANTILEVER BRACKETS OR OTHER MEANS. SUBMIT FOR REVIEW.
 - c. GROUPED LINES AND SERVICES: TRAPEZE HANGERS OF BOLTED ANGLES OR CHANNELS.
 - d. WHERE BUILDING CONSTRUCTION IS INADEQUATE: PROVIDE ADDITIONAL FRAMING. SUBMIT FOR REVIEW.
 - G. PAINT SHALL BE THE BEST GRADE FOR ITS PURPOSE, DELIVER IN ORIGINAL SEALED CONTAINERS AND APPLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. COLORS SHALL BE AS SELECTED BY ARCHITECT OR ENGINEER. UTILIZE GALVANIZED IRON PRIMER ON PANEL AND PULL BOXES, AFTER FABRICATION, UTILIZE HOT DIPPED GALVANIZED DIPPLE IN ZINC BATH. FOR OUTLET BOXES, GROUTING BOXES, TRAPZEE HANGERS, RODS, INSERTS AND SUPPORTS, ZINC BASED PRIMER WITH FINISH TO MATCH SURROUNDINGS SHALL BE USED FOR MARRED SURFACES OF STEEL EQUIPMENT AND RACEWAYS. A FIELD-APPLIED ZINC BASED PRIME COAT SHALL BE UTILIZED FOR STEEL OR IRONWORK.
 - H. BRUSH AND CLEAN WORK PRIOR TO CONCEALING, PAINTING, AND ACCEPTANCE. PAINTED EXPOSED WORK SOILED OR DAMAGED; CLEAN AND REPAIR TO MATCH ADJOINING WORK BEFORE FINAL ACCEPTANCE. REMOVE DEBRIS FROM INSIDE AND OUTSIDE OF MATERIAL AND EQUIPMENT.
 - I. FINAL LOCATIONS AND MOUNTING ORIENTATIONS OF ALL SWITCHES, RECEPTACLES AND LIGHT FIXTURES SHALL BE VERIFIED WITH ARCHITECT.

J. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.

3. SCOPE OF WORK:

 - G. SCOPE OF WORK SHALL CONSIST OF PROVIDING LABOR, MATERIALS, EQUIPMENT, SERVICES AND FEES NECESSARY FOR COMPLETE AND SATISFACTORY WORK, CONFORMING TO THE APPLICABILITY OF THE NATIONAL ELECTRICAL CODE BY THE STATE OR LOCAL CODE, AND ALL OTHER APPLICABLE INDUSTRY, NATIONAL AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION, AS INDICATED ON DRAWINGS AND HEREIN SPECIFIED.
 - H. ALL DRAWINGS, PLANS, DETAILS, SPECIFICATIONS AND SPECIFICATION ADDENDA ARE MADE PART OF THIS CONTRACT AND SHALL APPLY TO ALL WORK UNDER THE CONTRACT UNLESS OTHERWISE AMENDED, MODIFIED, SUPPLIED OR SPECIFIED HEREIN.
 - I. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL DEFECTS IN THE WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL CERTIFICATE FOR PAYMENT AND/OR DATE OF ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES BY OWNER. INCLUDED IN THE VARIOUS PARTS OF THE WORK, WHICHEVER, DATE IS EARLIER, WHICH PARTS BEING AS AGREED UPON BY OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR

4. SHOP DRAWINGS

 - A. PRIOR TO THE INSTALLATION OF ANY WORK AND PROCUREMENT OF EQUIPMENT, CONTRACTOR SHALL PROVIDE COMPLETE SETS OF COORDINATED SHOP DRAWINGS OF ALL NEW AND EXISTING EQUIPMENT, INDICATING CAPACITY, DIMENSIONS AND SEQUENCE OF OPERATION FOR WRITTEN APPROVAL BY THE ARCHITECT AND ENGINEER.
 - B. INDICATE ON EACH SHOP DRAWINGS SUBMITTED:
 - 1) PROJECT NAME AND LOCATION
 - 2) NAME OF ARCHITECT AND ENGINEER
 - 3) ITEM IDENTIFICATION
 - 4) APPROVAL STAMP OF PRIME CONTRACTOR
 - C. SUBMISSIONS:
 - 1) SUBMISSIONS 11 IN. X 17 IN. OR SMALLER: IF THE SUBMISSION IS A CATALOG CUT, THEN THE CONTRACTOR SHALL SUBMIT ONE ORIGINAL AND TWO COPIES. OTHERWISE, HE SHALL SUBMIT THREE COPIES. THE ARCHITECT WILL FORWARD THE ORIGINAL AND ONE COPY (TWO COPIES WHEN NO ORIGINAL IS RECEIVED) TO THE ENGINEER. ALL CATALOG CUTS SHALL BE COMPLETE.
 - 2) SUBMISSIONS LARGER THAN 11 IN. X 17 IN.: SUBMIT TWO PRINTS AND ONE PAPER SEPIA TO THE ARCHITECT. THE ARCHITECT WILL FORWARD ONE PRINT AND THE PAPER SEPIA TO THE ENGINEER.

D. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING:

 - 1) SAFETY/DISCONNECT SWITCHES
 - 2) FUSES
 - 3) CIRCUIT BREAKERS
 - 4) DISTRIBUTION EQUIPMENT INCLUDING SWITCHBOARDS, TRANSFORMERS, PANELBOARDS AND LOAD CENTERS.
 - 5) RACEWAYS
 - 6) WIRE AND CABLE
 - 7) LIGHTING CONTROL DEVICES
 - 8) INSERTION RECEPTACLES
 - 9) MOMENTARY CONTACT SWITCHES
 - 10) TIME SWITCHES
 - 11) LIGHTING FIXTURES, BALLASTS AND LAMPS.
 - 12) MOTOR STARTERS.

E. ASSIST AND PROVIDE ALL NECESSARY INFORMATION, DIAGRAMS, SKETCHES, ETC. TO THE HVAC CONTRACTOR, FOR THE PREPARATION OF COORDINATED SHOP DRAWINGS INDICATING ROUTING OF FEEDERS, CONTROL CONSETS, RECESSED FIXTURES AND ADJACENT NEARBY PHOTOCOPIES OF DRAWINGS, AS DIRECTED BY ALL TRADES THAT COORDINATION HAS BEEN ESTABLISHED. SUBMIT FOUR(4) BOOKBOUND OPERATING AND SERVICE MANUALS WHICH SHALL INCLUDE COPIES OF ALL SHOP DRAWINGS. PROVIDE SHOP DRAWINGS FOR PANELS, FIXTURES, WIRING DEVICES, CONDUIT, CABLE, DISCONNECT SWITCH, RELAYS, CONTRACTORS, AND OTHER EQUIPMENT AS DIRECTED BY THE ENGINEER.

F. AS-BUILT DRAWINGS AND EQUIPMENT OPERATIONAL INSTRUCTIONS

G. IDENTIFICATION

1) PROVIDE NAMEPLATE AT EACH SWITCH IDENTIFYING THE LOAD SERVED.

2) NAMEPLATES SHALL BE MOUNTED ON THE FRONT COVER SECURED WITH SELF-TAPPING SCREWS OR NUTS AND BOLTS. NAMEPLATES SHALL BE LAMINATED PHENOLIC, BLACK WITH A MINIMUM OF 1/4" HIGH WHITE LETTERING.

I. DISTRIBUTION AND SUB-DISTRIBUTION PANELBOARDS SHALL BE A MINIMUM OF 30" WIDE AND 10" DEEP.

J. POWER PANELBOARDS SHALL BE SIMILAR TO GENERAL ELECTRIC TYPE "OMP", AS MANUFACTURED BY ATLAS SWITCH COMPANY, ELECTRIC SWITCHBOARD COMPANY OR APPROVED EQUAL.

K. PANELBOARDS SHALL HAVE MAIN CIRCUIT BREAKER OR MAIN LUGS AS INDICATED ON THE DRAWINGS. QUANTITY, POLES AND TRIP RATINGS OF BRANCH CIRCUIT BREAKERS TO BE AS INDICATED ON DRAWINGS.

L. PANELBOARD SHALL HAVE ENGRAVED WHITE CORE, BLACK LAMACOID NAMEPLATE SCREWED ONTO PANE TRIM WITH DESIGNATION LISTED (PANELBOARD NAME, VOLTAGE, RATING OR MAINS IN AMPS).

B. MATERIALS

1) RACEWAYS:

a. RIGID STEEL CONDUIT: FULL-WEIGHT PIPE, GALVANIZED, THREADED.

b. ELECTROMETALLIC TUBING (EMT): THIN WALL PIPE, GALVANIZED, THREADLESS.

c. FLEXIBLE STEEL CONDUIT: CONTINUOUS SINGLE STRIP, GALVANIZED.

d. WIREWAYS: STEEL WITH GROUND CONTINUITY. FINISH SHALL BE BAKED ENAMEL. COVERS SHALL BE SCREW-ON.

e. SURFACE METAL RACEWAY: SURFACE METAL RACEWAY INCLUDING COUPLINGS, SPLICES, END COUPLINGS, COUPLING COUPLINGS, BLANKS, TEE, WIRE CLIPS, DEVICE BRACKETS, DEVICE COVERS AND OTHER ASSOCIATED APPARATUS SHALL BE USED TO FACILITATE PULLING THE QUANTITY AND SIZE OF WIRES AND CABLES, AND INSTALLING THE DEVICES CONTAINED. RACEWAY SHALL BE REINFORCED, CALIBERIZED. COVERS SHALL INCLUDE MOUNTING KNOCK-OUTS, AND SHALL BE FINISHED AS DIRECTED BY THE ARCHITECT. MANUFACTURER SHALL BE WIREMOLD.

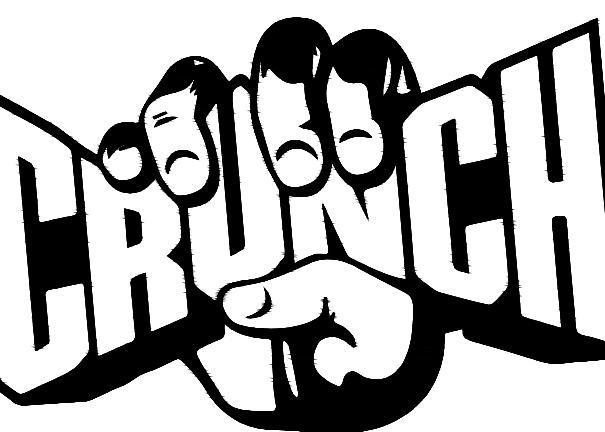
2) FITTINGS AND ACCESSORIES:

a. RIGID STEEL: NONSPLIT, THREADED, STEEL OR MALLEABLE IRON. ZINC DIE CAST NOT PERMITTED.

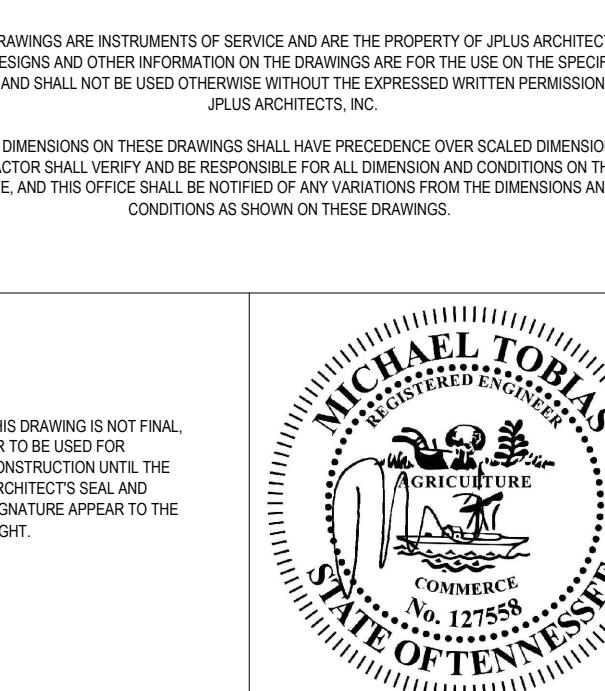
b. ELECTROMETALLIC TUBING: COMPRESSION TYPE. GALVANIZED RIGID STEEL ELBOWS, 2 IN. OR LARGER.

c. FLEXIBLE METALLIC CONDUIT: ANGLE WEDGE TYPE WITH INSULATED THROAT.

d. BUSHINGS: METALLIC INSULATED TYPE.



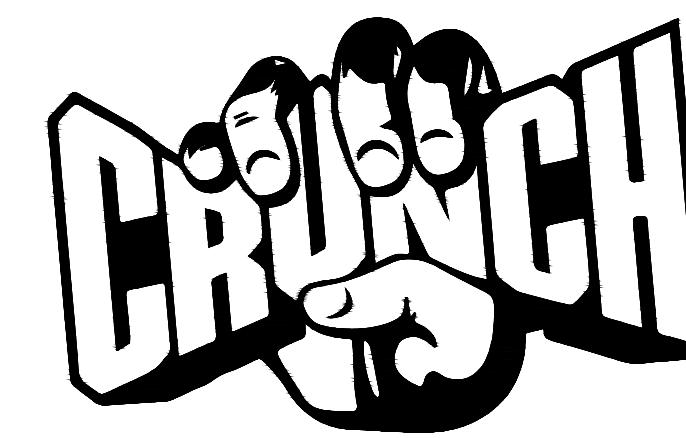
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ELECTRICAL SPECIFICATIONS SHEET 1 OF 2

NO. DESCRIPTION DATE
PROJECT MANAGER Kris Johnson
PROJECT ARCHITECT Jeff Jennings
SCALE:
DATE: 10/27/2023
PROJECT NO: 22-45
E001.2



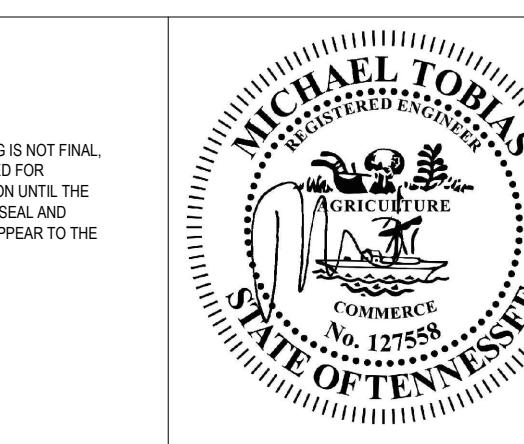
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CONSTRUCTION DRAWINGS

ELECTRICAL SPECIFICATIONS SHEET 2 OF 2

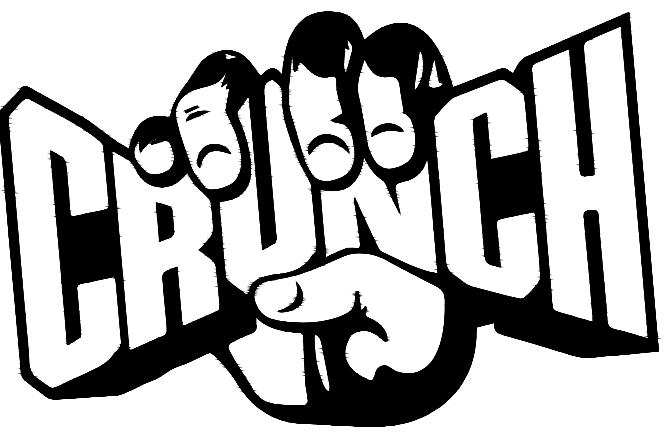
NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:		
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PROJECT NO:	22-45	

E001.3

ELECTRICAL SPECIFICATIONS (CONT.)

- 3) BOXES:
 a. OUTLET BOXES: EXCEPT AS OTHERWISE REQUIRED BY CONSTRUCTION, DEVICES OR WIRING, BOXES SHALL BE STAMPED STEEL, 4 IN. SQUARE OR OCTAGON FOR FIXTURES, BOXES ADJUSTABLE TO 3 IN. DEEP. BOXES IN CEILING OR SLAB SHALL BE 3 IN. DEEP. BOXES IN WALL FOR FIXTURES SHALL BE 2-3/4 IN. DEEP. BOXES IN WALL FOR RECEPTACLES AND SWITCHES SHALL BE 1-1/2 IN. DEEP. FURNISHED RAISED COVERS AND FIXTURE STUDS WHERE REQUIRED. WHERE RAISED COVERS ARE DESIRED, PLATE COVER, OFFSET BACK-TO-BACK OUTLETS WITH MINIMUM 6 IN. SEPARATION. MANUFACTURER SHALL BE APPLETON, RACO OR STEE CITY.
 b. JUNCTION AND PULL BOXES: GALVANIZED SHEET STEEL WITH SCREW-ON COVERS, EXCEPT AS NOTED. FURNISH WHERE REQUIRED. INSULATED BOXES. CABLE GROUTINGS SHALL BE AS NOTED OR REQUIRED AND ACCESSIBLE. PROVIDE BARRIERS IN NEW AND RENOVATED BOXES BETWEEN 120/208 VOLT AND 277/480 VOLT. FLOOR BOXES SHALL BE ADJUSTABLE CONCRETE, TIGHT PRESSED STEEL WITH BRASS FLANGE AND COVER. RAISED COVERS AND FIXTURE STUDS TRIM AND HINGED OUTLET OPENING COVERS. FIRE RATED POKE-THROUGH FLOOR FITTINGS SHALL BE UL LISTED AND APPROVED FOR USE IN FLOOR. LABELED RACEWAY MOUNTED SERVICE FITTING FOR SERVICE CONNECTION TO CONNECTION TO UNDER-FLOOR ELECTRIFIED METAL DECK SHALL BE COMPATIBLE WITH THE DECK MANUFACTURER. ACCEPTABLE SUPPORT SYSTEMS INCLUDE: PRECASTED FLOOR SHALL BE FLUSH TYPE WITH SPACE FOR EQUIPMENT CORD PLUG DEVICES AND SUITABLE FLIP TYPE COVER. MANUFACTURER SHALL BE HUBBELL, WIREMOLD, OR STEEL CITY.
 A. PROVIDE RACEWAYS ONLY AS HEREIN SPECIFIED, EXCEPT AS NOTED. RACEWAYS SHALL BE RUN CONCEALED, EXCEPT AS NOTED.
 PROVIDE RACEWAY SUPPORT UTILIZING CEILING TRAPEZE, STRAP HANGERS, OR WALL BRACKETS. PROVIDE U-BOLTS AT EACH HANGER. PROVIDE RACEWAY SUPPORTS AS SPECIFIED AS ACCEPTABLE SUPPORT SYSTEMS. RISER CLAMPS AT EACH FLOOR LEVEL OF RISER RACEWAYS AND RESTING ON SLAB. FOR THROUGH-THE-FLOOR SYSTEMS, UTILIZE AN ASSEMBLY SIMILAR TO THE ONE SHOWN IN THE DRAWING. PROVIDE BOX SYSTEM. FOR ABOVE FLOOR FITTINGS, TELEPHONE SHALL BE BUSHED HOLE AND POWER SHALL BE DUPLEX RECEPTACLE OR OTHER AS NOTED. PROVIDE SEPARATION BARRIER BETWEEN POWER AND DATA/FIRE ALARM COMPARTMENTS. PROVIDE JUNCTION BOX ON UNDERSIDE OF FLOOR. PACK FITTING TO RESTORE FIRE RATING OF FLOOR.
 SECURE ALL RACEWAYS TO SUPPORTS WITH PIPE STRAPS OR U-BOLTS. SPACING OF SUPPORTS SHALL BE A MINIMUM OF 10 FT ON CENTER FOR METALLIC RACEWAY AND AS REQUIRED FOR NON-METALLIC RACEWAY. SPACING OF SUPPORTS FOR CABLES FOR WIREWAYS AND PIPE AS NOTED FOR OTHERS. MOUNT SUPPORTS TO STRUCTURE, MASONRY WITH TOGGLE BOLTS OR HOLLOW MASONRY, EXPANSION SHIELDS OR INSERTS, CONCRETE, METAL FRAMES, MASONRY, METAL BEAM CLAMPS, OR FRAMEWORK. WOOD SCREWS ON WOOD, AND PAN THROUHS IN METAL DECK. NAILS, RAWL PLUGS OR WOOD PLUGS SHALL NOT BE PERMITTED. WHERE REQUIRED BY STRUCTURE, FURNISH THROUGH BOLTS AND FISHPLATES.
 EXPOSED RACEWAYS SHALL RUN PARALLEL TO OTHER RACEWAYS AND PIPING. PROVIDE SERVICE WIRE, WATER, STEAM OR OTHER PIPING (MINIMUM 3 IN. SEPARATION FROM STEAM AND HOT WATER PIPES, EXCEPT 1 IN. FROM PIPE COVER AT CROSSINGS AND 18 IN. FOR PARALLEL RUNS), FOR HUNG CEILINGS, PROVIDE CEILING CHANNELS AND CONNECT TO CEILING SUPPORT CHANNELS. IN MASONRY AND Poured CONCRETE, RUN VERTICALLY ONLY.
 MAINTAIN GROUNDING CONTINUITY OF INTERRUPTED METALLIC RACEWAYS WITH GROUND CONDUCTOR, AND IN FLEXIBLE CONDUIT FOR FEEDERS AND MOTOR TERMINAL CONNECTIONS.
 EMPTY RACEWAYS OVER 10 FT LONG: PROVIDE FIRE OR PULL WIRE, GALVANIZED OR NYLON ROPE.
 RIGID STEEL CONDUIT SHALL BE PERMITTED FOR FEEDERS AND BRANCH CIRCUITS. PAINT MALE THREADS OF FIELD-THREADED CONDUIT WITH GRAPHITE-BASE PIPE COMPOUND AND BUTT CONDUIT ENDS TO TOUCH UP MARRED SURFACES AND FIELD-CUT THREADS. USE PLIERS TO STRAIGHTEN CUT ENDS. PROVIDED FOR BRANCH CIRCUITS ONLY, IN DRY LOCATIONS, DRY WALLS, HUNG CEILINGS, HOLLOW BLOCK WALLS AND FURRED SPACES. END SHALL NOT BE PERMITTED IN RAISED FLOORS.
 FLEXIBLE CONDUIT SHALL BE PROVIDED FOR SHORT CONNECTIONS WHERE RIGID CONDUIT IS IMPRACTICAL. FROM OUTLET BOX TO RECESSED LIGHTING FIXTURE. PROVIDE MINIMUM 1 FT AND MAXIMUM 6 FT LENGTHS. FOR FINISH CONDUIT, USE TAPER-RESISTANT, BELL-TERMINATED, AND OTHER VIBRATING EQUIPMENT. PROVIDE WITH POLYVINYL SHEATHING AND GROUND CONDUCTOR. MINIMUM LENGTH: 18 IN. WITH SLACK CONDUIT. GROUND CONDUCTOR TO ENDS OF CONDUIT, ONE EACH SIDE OF EXPANSION JOINTS AND CROSSINGS, CROSS AT 90 ANGLES AND ANCHOR ENDS.
 CUT CONDUIT ENDS SQUARE, REAM SMOOTH, PAINT MALE THREADS OF FIELD-THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY COUPLING.
 ALL COUPLINGS SHALL BE COMPRESSION TYPE. NO SET SCREW FITTINGS.
 EXPANSION FITTINGS SHALL BE INSTALLED AT RIGHT ANGLES WITH CUP JOINT CENTERED IN EXPANSION JOINT. PROVIDE A LENGTH OF RUN IN ACCORDANCE MANUFACTURER'S RECOMMENDATIONS. PRESET FITTINGS SHALL ALLOW FOR TEMPERATURE VARIATION.
 RACEWAYS PASSING THROUGH FIRE-RATED CONSTRUCTION: SEAL OPENING WITH FIRE SEALANT.
 B. PROVIDE CABLE SUPPORTS IN ACCORDANCE WITH NATIONAL ELECTRIC CODE ARTICLE 300.19. CABLE SUPPORTS SHALL UTILIZE A ONE-PIECE PLUG WITH POZI-GRIP WEDGING PLUG AS MANUFACTURED BY OZ-GEDNEY. TYPE "P" SHALL BE USED FOR ARMORED CABLE.
 INSTALL CABLE SUPPORTS AT THE TOP OF A VERTICAL RISE AND PROVIDE INTERMEDIATE ADDITIONAL SUPPORTS AS REQUIRED TO LIMIT SUPPORTED CONDUCTOR LENGTHS TO NOT GREATER THAN THOSE SPECIFIED IN NEUTRAL TABLE 300.19(A).
 C. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURNING AND FIREPROOFING. OUTLET BOXES SHALL BE SET SQUARE AND TRUE WITH BUILDING FINISH. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRON OR GROUT IN WITH MASONRY. VERIFY OUTLET BOXES ARE PLUMB. PROVIDE ACCESSORY DRAWINGS OF INTERIOR DETAILS AND FINISHES. PROVIDE BARRIERS BETWEEN SWITCHES CONNECTED TO DIFFERENT PHASES FOR VOLTAGE EXCEEDING 150 VOLTS TO GROUND.
 A. PANEL, JUNCTION AND PULL BOXES SHALL BE LOCATED CLEAR OF OTHER TRADES. CONCEAL JUNCTION AND PULL BOXES IN FIREPARTITIONS ROOMS. PROVIDE RECESSING FOR CONCEALMENT, BOXES OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. BOXES SHALL BE ACCESSIBLE. SUPPORT BOXES FROM BUILDING STRUCTURE, INDEPENDENT OF CONDUIT. PROVIDE FLOOR-TO-CEILING OUTLET BOXES FOR FIXTURES. PROVIDE FLOOR-TO-CEILING CONSTRUCTION. OUTLET BOXES FOR FIXTURES RECESSED IN HUNG CEILINGS SHALL BE ACCESSIBLE THROUGH OPENING CREATED BY REMOVAL OF FIXTURE. SECURE TO BLACK IRON SURFACE. MOULD TERMINAL BOXES, CONFORMING WITH MOTOR BRANCH CIRCUIT CONDUIT AND WIRING; ADD BOX VOLUME WHERE REQUIRED.
 B. FIRE SEALANTS: PROVIDE FOR RACEWAYS AND WIRE PASSING THROUGH FLOOR SLOTS, SLEEVES OR OPENINGS IN FIRE-PARTITIONS ROOMS.
 C. PERFORM CONTINUITY TESTS OF RESISTANCE OF FEEDER CONDUITS FROM SERVICE TO POINT OF FINAL DISTRIBUTION USING 1 CONDUCTOR RETURN. MAXIMUM RESISTANCE SHALL BE 25 OHMS.
 10. WIRE AND CABLE:
 a. PROVIDE WIRE AND CABLE COMPLETE WITH ACCESSORIES. SIZE REFERENCE SHALL BE AWG EXCEPT AS NOTED.
 b. CONDUCTORS SHALL BE COPPER, ASTM STANDARD SOLID (NO. 10 AND SMALLER) OR STRANDED (NO. 8 AND LARGER). GENERAL USE CABLING SHALL BE NO. 12 MINIMUM, AT 120 VOLTS AND 200 FT CIRCUIT LENGTH. FOR CIRCUITS OVER 200 FT, CIRCUIT LENGTH PROVIDE NO. 10 MINIMUM. MANUFACTURER SHALL BE AMERICAN INSULATED WIRE CORP., CERRO, COLLYER, CAPITOL WIRE AND CABLE, OKONITE, SENATOR, SOUTH WIRE OR TRIANGLE.
 c. CONTROL AND ALARM CABLEING, EXCEPT AS NOTED, SHALL BE NO. 14 MINIMUM, AT 120 VOLTS AND OVER 200 FT CIRCUIT LENGTH. FOR CIRCUITS OVER 200 FT, CIRCUIT LENGTH PROVIDE NO. 12 MINIMUM.
 d. INSULATION SHALL BE RUBBER AND THERMOPLASTIC MEETING ASTM AND IEC/IEC STANDARDS. TYPE THW OR THHN SHALL BE UTILIZED FOR BRANCH CIRCUITS. TYPE SPT-2 SHALL BE UTILIZED FOR BRANCH CIRCUITS LOCATED IN WIRING CHANNELS OF CONTINUOUS FLUORESCENT FIXTURES AND IN AMBIENT TEMPERATURES OVER 90 DEG C. FOR UNGROUNDED ISOLATED BRANCH CIRCUITS PROVIDE CROSS-LINKED POLYETHYLENE INSULATION (TYPE XHHW).
 e. COLOR CODING SHALL BE AS FOLLOWS:
 120/208 VOLT SYSTEM: 277/480 VOLT SYSTEM:
 BLACK FOR A PHASE BROWN FOR A PHASE
 RED FOR B PHASE ORANGE FOR C PHASE
 BLUE FOR C PHASE YELLOW FOR C PHASE
 f. PROVIDE FLAME-PROOF LINEN OR FIBER TAGS IN ACCESSIBLE LOCATIONS. FIBER TAGS INDICATE FITTER NUMBER, SIZE, PHASE AND POINTS OF ORIGIN AND TERMINATIONS. FOR CONTROL AND ALARM WIRING INDICATE TYPE (CONTROL OR ALARM), SIZE OF WIRE AND POINTS OF ORIGIN AND TERMINATIONS.
 g. TERMINATIONS, SPLICES AND TAPS UNDER 600 VOLTS: COPPER CONDUCTORS NO. 10 AND SMALLER SHALL UTILIZE COMPRESSION TYPE TWO-ONE-PIECE CONNECTORS AND CLEAR NYLON-INSULATED COVERING. COPPER CONDUCTORS NO. 8 AND LARGER SHALL UTILIZE MECHANICAL BOLTED PRESSURE OR HYDRAULIC COMPRESSION TYPE CONNECTORS. INSULATED CONDUCTORS SHALL UTILIZE COMPRESSION TYPE OF SAME METAL AS CONDUCTOR. PROVIDE TO MATCH CABLE, WITH MARKING INDICATING SIZE AND TYPE. COPPER LUG CONNECTIONS TO BUS BARS USE ANTISEIZE COMPOUND ON CONTACT AREA.
 h. NOT MORE THAN 3 LIGHTING OR CONVENIENCE OUTLET CIRCUITS SHALL BE INSTALLED IN ONE CONDUIT UNLESS OTHERWISE INDICATED. PULL NO THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 100 DEG F. RACEWAYS FOR CONDUCTORS OF 120/208 AND 265/460 VOLT SYSTEMS EXCEPT 460 VOLTS MOTOR BRIDGE CIRCUITS AND RELATED 120 VOLTS CONTROL WIRING, THERMOPLASTIC WIRES SHALL NOT BE INSTALLED IN COMPUTER AREA RAISED FLOORS.
 i. LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS.
 j. PERFORM CONTINUITY AND INSULATION TESTS. MEGGER TEST 100 PERCENT OF FEEDERS, 10 PERCENT OF BRANCH CIRCUITS AND ALL MOTOR BRANCH CIRCUITS OVER 25 HP.
 k. PERFORM TESTS PRIOR TO CONNECTING EQUIPMENT AND IN PRESENCE OF AUTHORIZED REPRESENTATIVES. SUBMIT WRITTEN REPORT OF RESULTS. CORRECT OR REPLACE CABLE TESTING BELOW MANUFACTURER'S STANDARDS.
 l. 11. WIRING DEVICES:
 m. WIRING DEVICES SHALL BE SPECIFICATION GRADE UNLESS OTHERWISE SPECIFIED. ALL DEVICES SHALL BE FLUSH MOUNTED, UNLESS OTHERWISE NOTED. PROVIDE COMPLETE MATERIAL AND ACCESSORIES AS NOTED.
 n. LOCAL WALL SWITCHES SHALL BE ROCKER TYPE, QUIET OPERATING, RATED 20 AMP, 120/277 VOLT, AC. SIMILAR TO LEVITON DECORA SERIES A5621 (SINGLE POLE), A5623 (3-WAY) AND A5624 (4-WAY).
 o. STRAIGHT BLADE RECEPTACLES SHALL BE COMMERCIAL SPECIFICATION GRADE DUPLEX CONVENIENCE 120 VOLTS, 2 POLE, 3 WIRE, U GROUND SLOT, DECORA SERIES BY LEVITON. GROUNDED, EXCEPT AS NOTED.
 p. SINGLE GANG, RECESSED, DUPLEX RECEPTACLE: TAMPER RESISTANT 2-POLE, 3-WIRE GROUNDING, 15A, 125V, NEMA 5-20R; LEVITON 689 SERIES (COLOR AS SPECIFIED BY ARCHITECT).
 q. 2) USB CHARGER/ DUPLEX TAMPER-RESISTANT RECEPTACLE: TAMPER RESISTANT.
 r. INSERTION RECEPTACLES SHALL BE HOSPITAL GRADE DUPLEX CONVENIENCE 120 VOLTS, 2 POLE, 3 WIRE, U GROUND SLOT. GROUNDED, EXCEPT AS NOTED.
 s. GROUND FAULT INTERRUPTER RECEPTACLES:
 t. 20 AMP DUPLEX FEED-THROUGH TYPE. SIMILAR TO NO. GF8300.
 u. DEVICE PLATES: SEE ARCHITECT FOR TYPE. FOR RECEPTACLES WITH OTHER THAN 120 VOLTS, INSCRIBED VOLTAGE AVAILABLE.
 v. COLORS: COORDINATE COLORS WITH ARCHITECT.
 w. MOUNTING ORIENTATION OF RECEPTACLES (HORIZONTAL OR VERTICAL): COORDINATE WITH ARCHITECT.
 x. 12. LIGHTING FIXTURES:
 y. FIXTURES TO BE AS SPECIFIED BY ARCHITECT. U.O.N. AND SHALL BE COMPLETELY FACTORY ASSEMBLED, WIRED AND EQUIPPED WITH ALL NECESSARY SOCKETS, BALASTS, SUPPORTING HARDWARE AND ACCESSORIES. REFER TO DRAWINGS FOR INDIVIDUAL FIXTURE DESCRIPTION.
 z. BALAST: CLASS P, HIGH POWER FACTOR, LOWEST AVAILABLE NEMA RATED NOISE LEVEL, ETI AND CBM APPROVED. ENERGY SAVING TYPE. TRIGGER START FOR 24-INCH LAMPS AND RAPID START FOR 48-INCH. TWO LAMP BALASTS: NO THREE LAMP BALASTS. BALASTS SHALL BE ADVANCE MAGNETEK, UNIVERSAL OR EQUAL.
 aa. LED DRIVERS SHALL BE ELECTRONIC TYPE, LABELED AS COMPLIANT WITH RADIO FREQUENCY INTERFERENCE (RFI) REQUIREMENTS OF FCC TITLE 47, PART 15.03, COMPLY WITH NEMA SS-11 "ELECTRONIC DRIVERS AND LED DEVICES, ARRAYS OR GROUPS". LED DRIVERS SHALL HAVE A SOUND RATING OF "A", HAVE A MINIMUM EFFICIENCY OF 85% AND BE RATED FOR A THD OF LESS THAN 20% AT ALL INPUT VOLTAGES.
 bb. DIMMABLE LED DRIVERS SHALL BE CAPABLE OF DIMMING WITHOUT LED STROBING OR FLICKER ACROSS THEIR FULL DIMMING RANGE. PROVIDE TYPE OF LED DRIVER AS PER LIGHTING FIXTURE SCHEDULE. DIMMABLE LED DRIVERS SHALL BE 0-10V WHERE NOT INDICATED.
 cc. 13. VOICE/DATA CONDUIT SYSTEM:

E001.3



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CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR DIMENSIONS AND CONDITIONS ON THE
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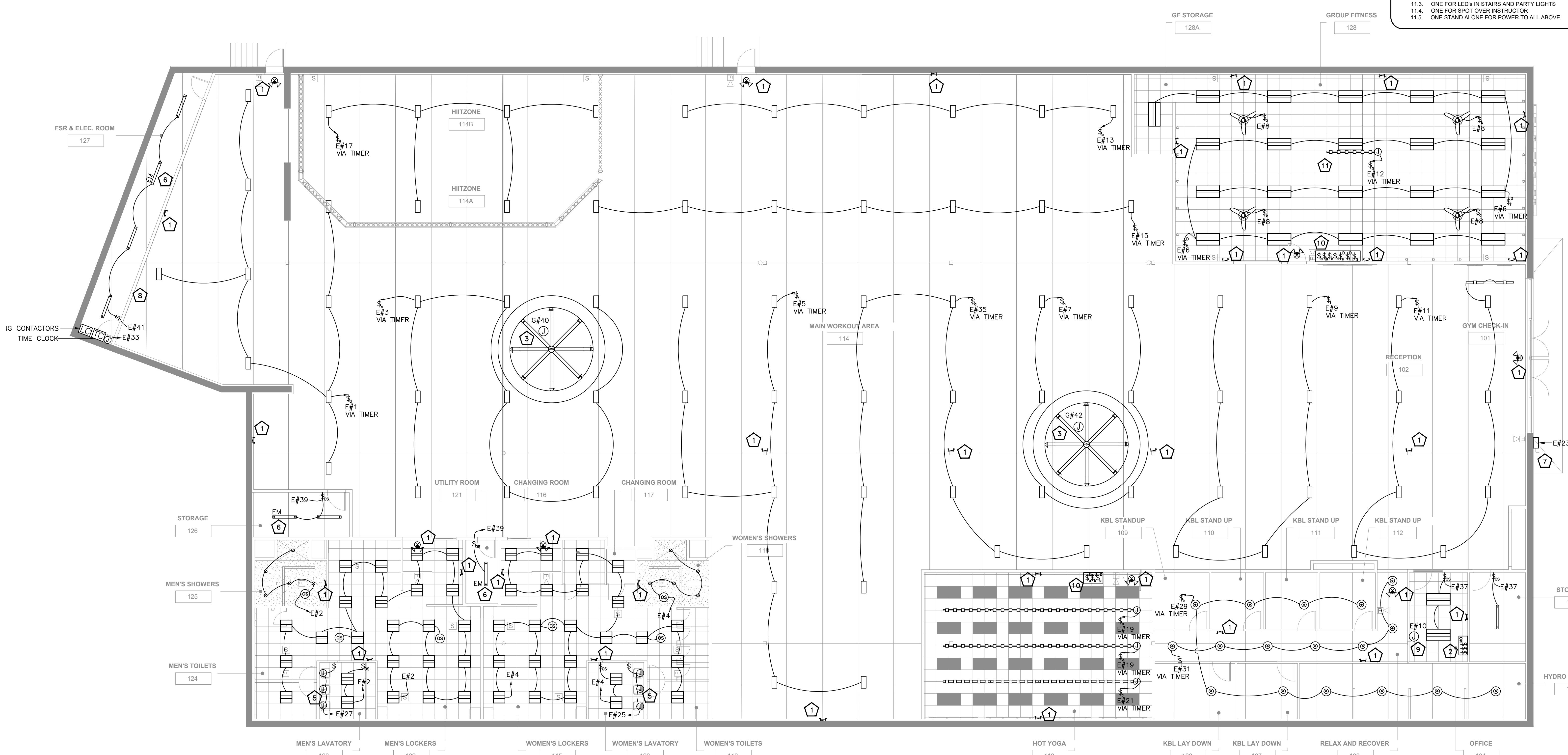


ELECTRICAL LIGHTING PLAN GENERAL NOTES

- A. SOME 24 HOUR, 7 DAY-A-WEEK OPERATIONAL FACILITIES DO NOT REQUIRE AUTOMATIC SHUT OFF (TIME CLOCK CONTROLLED) LIGHTING. VERIFY WITH OWNER AND AUTHORITY HAVING JURISDICTION.
- B. EMERGENCY, EXIT, AND NIGHT LIGHTING SHALL NOT RUN THRU BUILDING SHUTOFF.
- C. ALL LIGHT FIXTURES NOT ON TIMECLOCK OR OCCUPANCY SENSOR SHALL BE CONTROLLED BY LIGHTING CONTACTOR(S). E.C. SHALL PROVIDE ADDITIONAL CONTACTORS AS REQUIRED.
- D. COORDINATE MASTER SWITCH BANK LOCATION WITH OWNER/ ARCHITECT.
- E. ALL WIRING SHALL BE THHN RATED FOR 75°C, COPPER.
- F. ALL SECURITY AND EMERGENCY LIGHTING CIRCUITS, SMOKE DETECTORS, FIRE PROTECTION CIRCUITS AND OTHER CRITICAL SYSTEM CIRCUITS SHALL BE PROVIDED WITH A LOCK-ON DEVICE.

ELECTRICAL LIGHTING PLAN KEYED NOTES

1. LIGHTS AND EXIT SIGNS SHALL BE WIRED TO THE HOT LEAD OF THE CLOSEST LOCAL LIGHTING CIRCUIT. CONNECT TO BATTERY POWERED EMERGENCY LIGHT AHEAD OF ANY CONTROLS/ SWITCHES.
2. MASTER SWITCH BANK CONSISTS OF #2 SWITCHES AS INDICATED ON THE PLAN (SWITCHES #1 TO 1). MASTER SWITCH LOCATION TO BE IN THE OFFICE. VERIFY LOCATION, QUANTITY AND STYLE OF SWITCHES WITH OWNER/ ARCHITECT. COORDINATE EXACT REQUIREMENT WITH THE LIGHTING VENDOR.
3. PROVIDE DEDICATED POWER FOR BIG ASS FAN E.C. TO COORDINATE BREAKER SIZE. PLACEMENT AND WIRE SIZE WITH MANUFACTURER PRIOR TO INSTALL. POWER OF FANS TO BE INTERLOCKED TO SHUT DOWN UPON RECEIVING A SIGNAL FROM THE FIRE ALARM SYSTEM.
4. NOT USED.
5. PROVIDE RECESSED OUTLET/JUNCTION BOX AT E#117 FOR CONNECTION TO BACK LIGHT MIRROR LIGHTS. MIRROR LIGHTS SHALL BE CONTROLLED BY DIVISION 10 SWITCH. COORDINATE EXACT LOCATION OF JUNCTION BOX WITH ARCHITECT/ MANUFACTURER.
6. FIXTURES DESIGNATED WITH "EM" SHALL HAVE EMERGENCY BATTERY BACK UP.
7. COORDINATE WITH ARCHITECT/ OWNER FOR EXACT LOCATION OF EXTERIOR BUILDING SIGNAGE.
8. TIME CLOCK AND LIGHTING CONTACTORS FOR LIGHTING CONTROL. COORDINATE EXACT LOCATION IN FIELD.
9. PROVIDE JUNCTION BOX OR OUTLET FOR GOOSENECK OVER OFFICE FOR LOW VOLTAGE. COORDINATE EXACT LOCATION OF THE JUNCTION BOX/ OUTLET IN FIELD.
10. ALL SWITCH BANKS IN GROUP FITNESS, RIDE STUDIO & ON SAUNAS TO HAVE LOCKABLE COVERS.
11. ALL SWITCHES AND CONTROLS FOR RIDE STUDIO AND GROUP FITNESS TO BE COVERED AND LOCKED. PROVIDE SWITCHES AS FOLLOWS:
 - 11.1. ONE FOR RECESSED LIGHT
 - 11.2. ONE FOR FANS
 - 11.3. ONE FOR SPOTLIGHTS IN STARS AND PARTY LIGHTS
 - 11.4. ONE FOR SPOT OVER INSTRUCTOR
 - 11.5. ONE STAND ALONE FOR POWER TO ALL ABOVE



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

CRUNCH FITNESS
3634 BELL ROAD
NASHVILLE, TN 37214
CONSTRUCTION DRAWINGS
APN: 09700013000

ELECTRICAL LIGHTING PLAN

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:		
DATE:	10/27/2023	
PROJECT NO:	22-45	

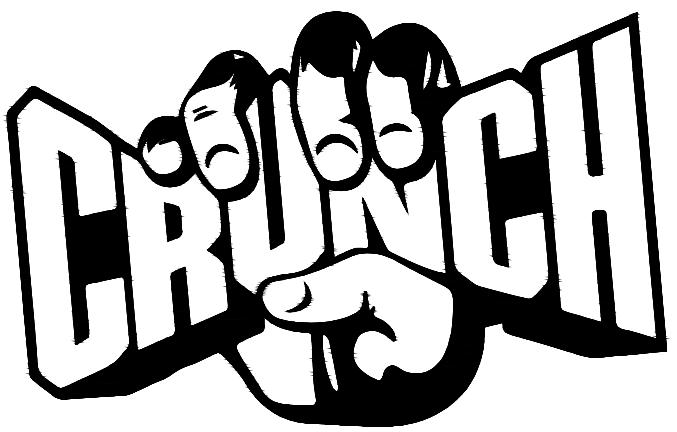
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ELECTRICAL POWER PLAN GENERAL NOTES

1. E.C. SHALL COORDINATE RECEPTACLES MOUNTING HEIGHT WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
2. ALL LOW VOLTAGE WIRING TO BE IN CONDUIT UNLESS OTHERWISE APPROVED BY AUTHORITY HAVING JURISDICTION.
3. ELECTRICIAN TO COORDINATE WITH MECHANICAL CONTRACTOR FOR RTU SENSOR AND THERMOSTAT LOCATIONS.
4. SOME TANNING BEDS ARE AVAILABLE AT MULTIPLE VOLTAGES AND TANNING BED SELLER WILL SELECT TO BED SIZE. VERIFY EXACT LOCATION AND REQUIREMENTS OF BEDS DELIVERED TO JOB SITE PRIOR TO PULLING WIRE AND INSTALLING BREAKERS AND DISCONNECTS, OR RE-PULL WIRE AND REPLACE BREAKERS AS NEEDED.
5. FURNITURE WALLS AS NEEDED FOR ELECTRICAL CONNECTIONS.
6. ROOF RECEPTACLES SHALL BE GF/WP/WR TYPE.
7. CIRCULATING FANS ARE AVAILABLE IN MULTIPLE VOLTAGES. CONFIRM DISCONNECT AND BREAKER SIZE OF EXACT FANS DELIVERED TO SITE AND MAKE ADJUSTMENTS AS NEEDED.
8. ALL OUTLET AND SWITCH COVERS TO BE BRUSHED NICKEL IN COLOR.
9. PROVIDE 20 AMP RECEPTACLE FOR SPEAKER(S), COORDINATE EXACT MOUNTING LOCATION AND/OR HEIGHT WITH PLUMBING CONTRACTOR PRIOR TO ANY ROUGH-IN AND PROVIDE AS DIRECTED.
10. MINIMUM CONDUCTOR SIZE FOR 120V BRANCH CIRCUITS SHALL BE 12-AWG FOR 120V BRANCH CIRCUITS WITH HOMERUN OVER 100 LINEAR FEET. A MINIMUM WIRE SIZE OF 10-AWG SHALL BE PROVIDED FROM FIRST JUNCTION/OUTLET TO BRANCH CIRCUIT PANELBOARD. FOR 120V BRANCH CIRCUITS WITH HOMERUN OVER 150 LINEAR FEET, A MINIMUM OF 8-AWG SHALL BE PROVIDED FROM FIRST JUNCTION/OUTLET BOX TO BRANCH CIRCUIT PANELBOARD.

ELECTRICAL POWER PLAN KEYED WORK NOTES

11. PROVIDE DEDICATED GFCI RECEPTACLE PER MANUFACTURERS RECOMMENDATION FOR VENDING MACHINES. VERIFY MANUFACTURER, MODEL NUMBER, AND QUANTITY WITH TENANT PRIOR TO INSTALL.
12. DATA CASE AND BOX SHALL BE PROVIDED FOR SELF POWERED CEILING SPEAKERS 18" BELOW THE ACOUSTICAL CEILING GRID. E.C. SHALL VERIFY EXACT LOCATION AND POWER REQUIREMENT FOR THE SPEAKERS IN FIELD.
13. SINGLE RECESSED RECEPTACLE FOR DIGITAL CLOCK. VERIFY LOCATION AND HEIGHT WITH TENANT. TYPICAL AT CLOCKS.
14. DATA & RECEPTACLE HEIGHT TO BE 10" TO CENTER (MOUNTED HORIZONTALLY) ON ENTIRE WALL BELOW MIRRORS WITH 1" CONDUIT TO CEILING SPACE.
15. COORDINATE RECEPTACLE LOCATION RELATIVE TO STROOP SPINE LOCATION.
16. E.C. TO MOUNT RECEPTACLE PER MANUFACTURER'S TEMPLATE. GFI RECEPTACLE TO BE MOUNTED BELOW DRINKING FOUNTAIN PER NEC.
17. E.C. SHALL COORDINATE WITH THE PLUMBING CONTRACTOR FOR EXACT LOCATION AND POWER REQUIREMENTS OF THE WATER HEATER WITH PLUMBING CONTRACTOR. PROVIDE CIRCUIT AND CONTROLS AS REQUIRED.
18. DISCONNECT SWITCH FOR RE-CIRCULATION PUMP. E.C. SHALL COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH PLUMBING DRAWINGS.
19. NOT USED.
20. PROVIDE RECEPTACLE AT 12' ABOVE FINISHED FLOOR AND 18' ABOVE FLOOR FOR SPEAKER/MICROPHONE ON NEAREST COLUMN TO TREADMILL AREA.
21. E.C. SHALL COORDINATE WITH THE ARCHITECT/OWNER FOR EXACT LOCATION OF PANELS, DISCONNECTS AND TRANSFORMERS IN THE FIELD.
22. PROVIDE (3) 3/4" CONDUITS FROM RAISED CURB TO TELEPHONE BOARD IN UTILITY ROOM. RECESSED CONDUIT IN FLOOR SLAB TO VERTICAL RISER. FIELD DEVELOP CEILING SPACE HORIZONTAL DISTRIBUTION WITH PULL BOXES EVERY 270 DEGREES OF CONDUIT TURNS CONDUIT STUB DOWN AT TELEPHONE BOARD.
23. PROVIDE DISCONNECT SWITCH FOR POWER YOGA HEAT PANELS. E.C. TO VERIFY EXACT LOCATION & POWER REQUIREMENTS WITH MANUFACTURER IN THE FIELD.
24. E.C. TO COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION, POWER REQUIREMENT AND CONTROL OF MECHANICAL UNITS. MAKE PROVISION ACCORDINGLY.
25. NOT USED.
26. PROVIDE JUNCTION BOX FOR ELECTRICAL CONNECTIONS TO PANIC DOOR HARDWARE. E.C. TO COORDINATE WITH MANUFACTURER FOR POWER REQUIREMENT AND EXACT LOCATION OF THE JUNCTION BOX AND PROVIDE NECESSARY WIRING.
27. E.C. SHALL FIELD VERIFY THE EXACT LOCATION, OPERABLE CONDITION, POWER DISTRIBUTION OF PANELS, DISCONNECTS AND TRANSFORMERS BASED ACCORDINGLY.
28. ALL 1-PHASE RECEPTACLES < 50A AND 3-PHASE < 100A RATED < 150V TO GROUND INSTALLED IN LAUNDRY, LOCKER AREA, AND INDOOR DAMP AND WET LOCATIONS SHALL HAVE GFCI PROTECTIONS FOR PERSONNEL AND THE CONTROL SHALL BE READILY ACCESSIBLE PER NEC 210.8(B)(7)(K&L).
29. TRENCH FROM COLUMN / FULL HEIGHT WALL. COMPLY WITH NEC 310.15 IF APPLICABLE. USE 10AWG WIRE MINIMUM. ADJUST WIRE SIZE FOR A MAXIMUM VOLTAGE DROP OF 3%. NO MORE THAN 9 CURRENT CARRYING CONDUCTORS PER CONDUIT.
30. EXACT LOCATION FOR THE RECEPTACLES, DATA AND TV OUTLETS SHOW IN THE MAIN GYM AREA SHALL BE PROVIDED IN COORDINATION WITH THE ARCHITECT/OWNER.
31. NOT USED.
32. THE DOOR SHALL OPEN IN THE DIRECTION OF EGGS AND BE EQUIPPED WITH LISTED PANIC HARDWARE PER NEC 110.26(C)(3). ARCHITECT SHALL MATCH THE REQUIREMENT.



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PROJECT TEAM

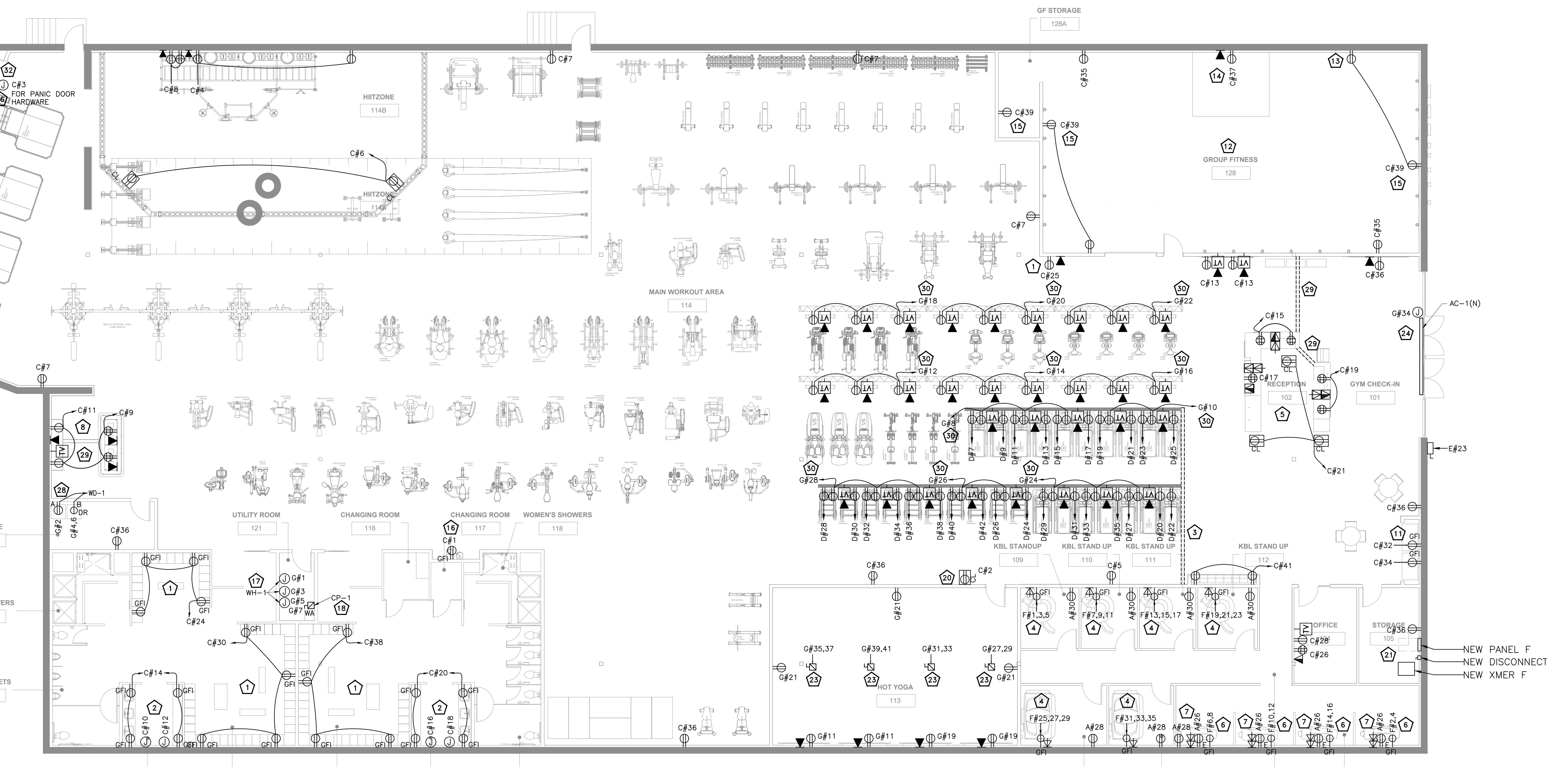
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FRANCHISE	Crunch Fitness 22 W. 16th St. New York, NY 10011 (609) 262-2364
BRENT SAUL	Vice President of Construction brent@crunchfranchise.com
MECHANICAL PLUMBING	Norby Engineers Fitness Guru's, LLC 1100 University Road, Suite 216 Cincinnati, OH 45242 (859) 992-3859
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NASHVILLE, TN 37214
CONSTRUCTION DRAWINGS
APN: 09700013000

09/2010

ELECTRICAL POWER PLAN

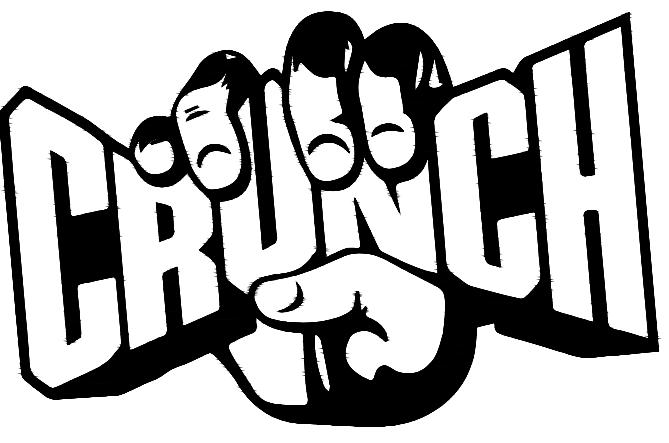
NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:		
DATE:	10/27/2010	
PROJECT NO:	22-45	



① ELECTRICAL POWER FLOOR PLAN

1/8" = 1'-0"

E200.1



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RIGHT.

MICHAEL TOBIAS
Architect
State of Tennessee
Commerce No. 127558

PROJECT TEAM

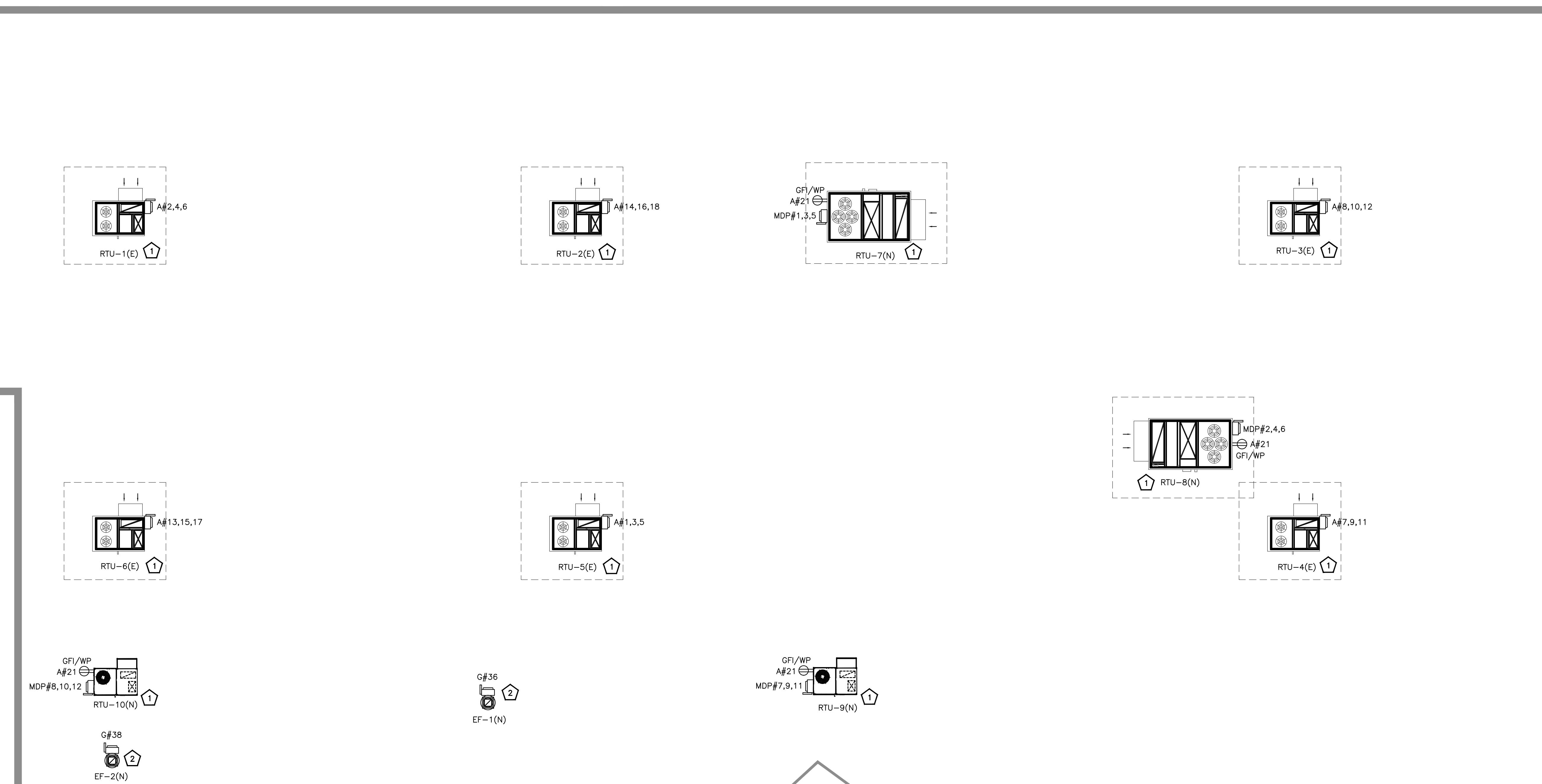
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	Noctis Engineers
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	(210) 575-3300
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CRUNCH FITNESS
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NASHVILLE, TN 37214
CONSTRUCTION DRAWINGS
APN: 09700013000

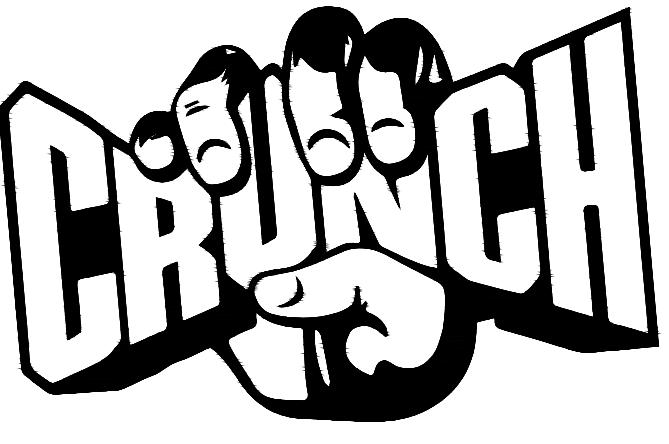
ELECTRICAL ROOF POWER PLAN

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:		
DATE:	10/27/2023	
PROJECT NO:	22-45	

E200.2



① ELECTRICAL ROOF POWER FLOOR PLAN
1/8" = 1'-0"



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PROJECT TEAM

BUILDING OWNER
TBD

FRANCHISE
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New York, NY 10011
(609) 262-2364

Brent Saul
Vice President of Construction
bsaul@crunchfranchise.com

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Frank Lauch
frlauch@autotempinc.com

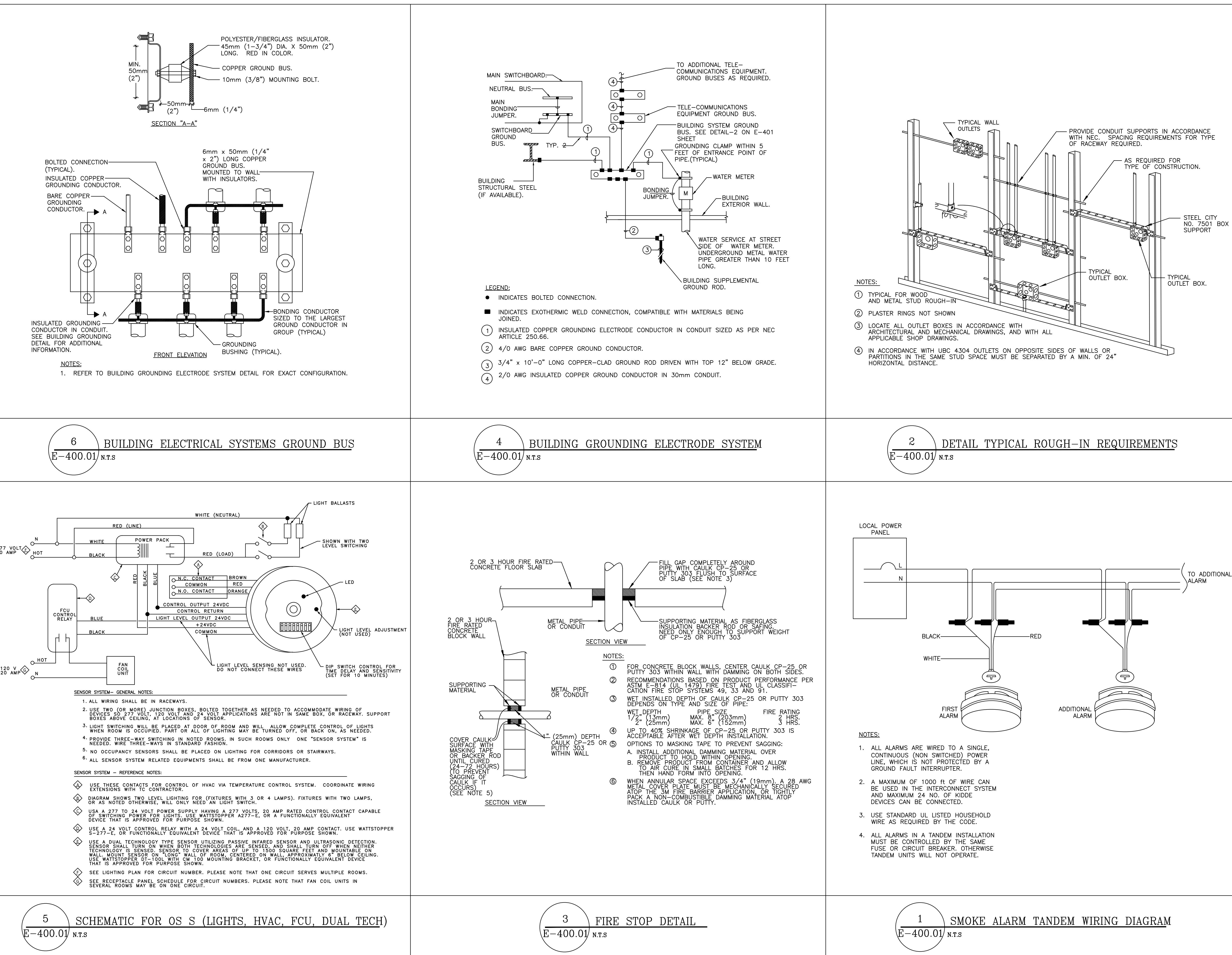
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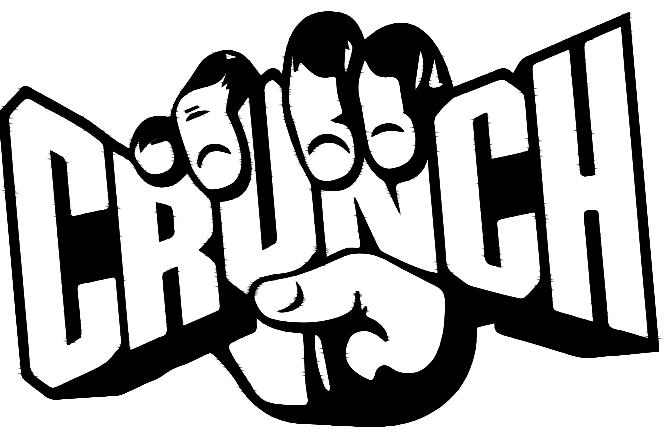
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ELECTRICAL DETAILS
SHEET 1 OF 2

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:		
DATE:	10/27/2023	
PROJECT NO:	22-45	

E400.1





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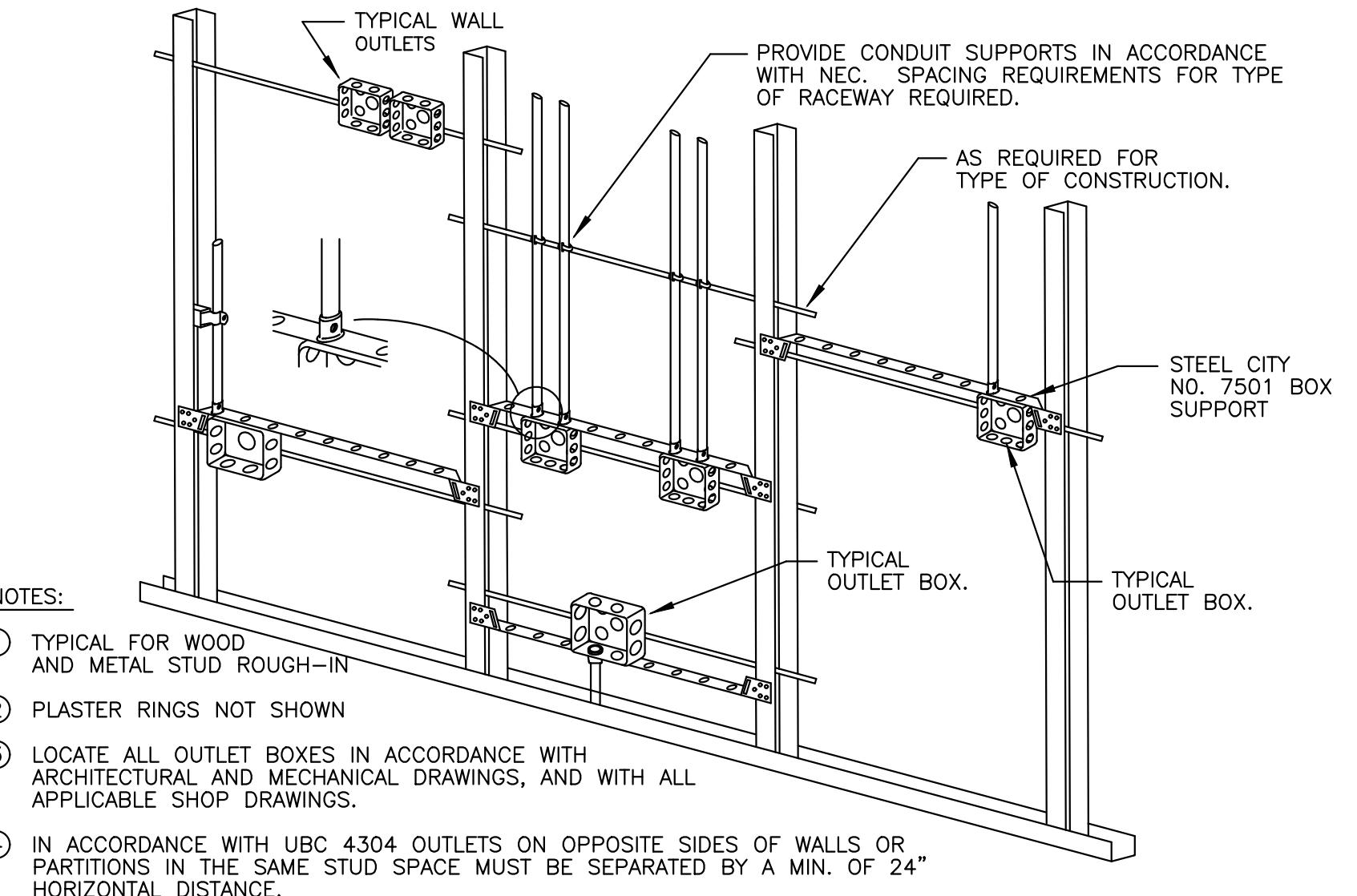
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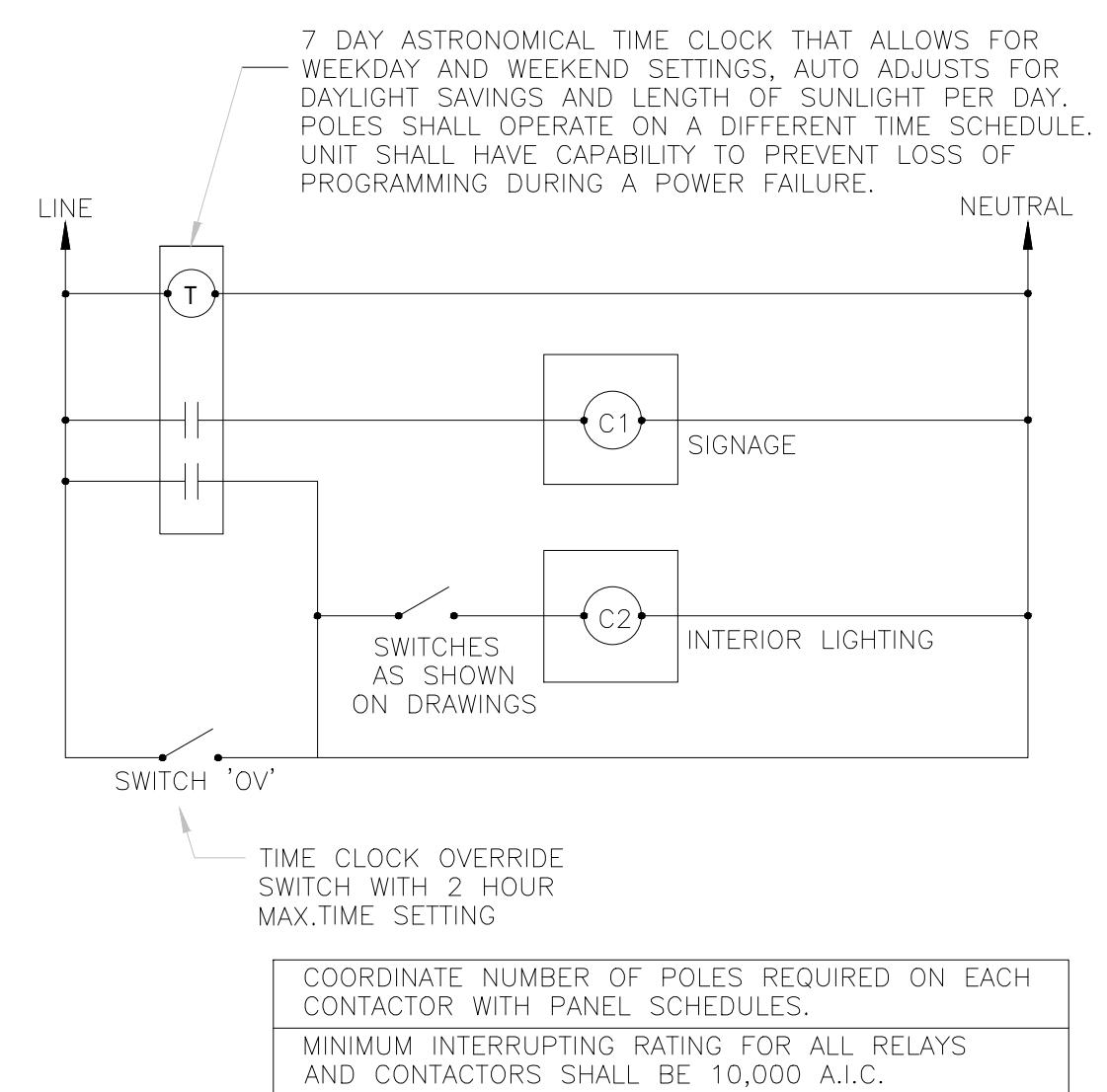


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ARCHITECTURAL AND MECHANICAL DRAWINGS,
AND WITH ALL APPROPRIATE SHOP DRAWINGS.

NOTES:



- ① TYPICAL FOR WOOD AND METAL STUD ROUGH-IN
- ② PLASTER RINGS NOT SHOWN
- ③ LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS, AND WITH ALL APPROPRIATE SHOP DRAWINGS.
- ④ IN ACCORDANCE WITH UBC 4304, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPARATED BY A MIN. OF 24" HORIZONTAL DISTANCE.



4 LIGHTING CONTROL DIAGRAM (TYPICAL)
E-400.01 N.T.S

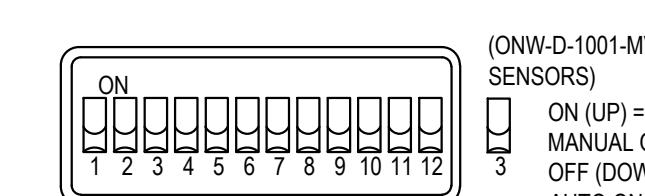
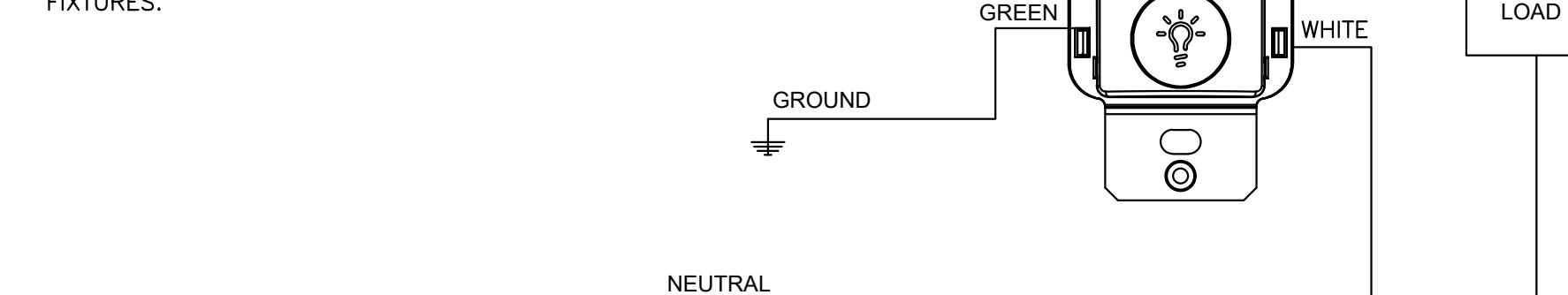
3 DETAIL TYPICAL ROUGH-IN REQUIREMENTS
E-400.01 N.T.S

- MANUAL MODE OPERATION:**
1. PUSHBUTTON PRESS IS REQUIRED TO TURN LOAD ON.
 2. LOAD TURNS OFF WHEN SENSOR TIMES OUT OR BY PRESSING PUSH BUTTON.
 3. IF DAYLIGHT SENSOR IS ENABLED AND LIGHT LEVEL IS ABOVE SETPOINT, LOAD WILL NOT TURN ON.
- AUTOMATIC MODE OPERATION:**
1. WHEN SENSOR ACTIVATES LOAD TURNS ON.
 2. PUSHBUTTON CAN BE USED TO TURN LOAD ON OR OFF. IF PUSHBUTTON IS USED TO TURN LOAD OFF, SENSOR MUST TIME OUT FIRST, BEFORE LOAD CAN TURN BACK ON AUTOMATICALLY.
 3. IF DAYLIGHT SENSOR IS ENABLED AND LIGHT LEVEL IS ABOVE SETPOINT, LOAD WILL NOT TURN ON.

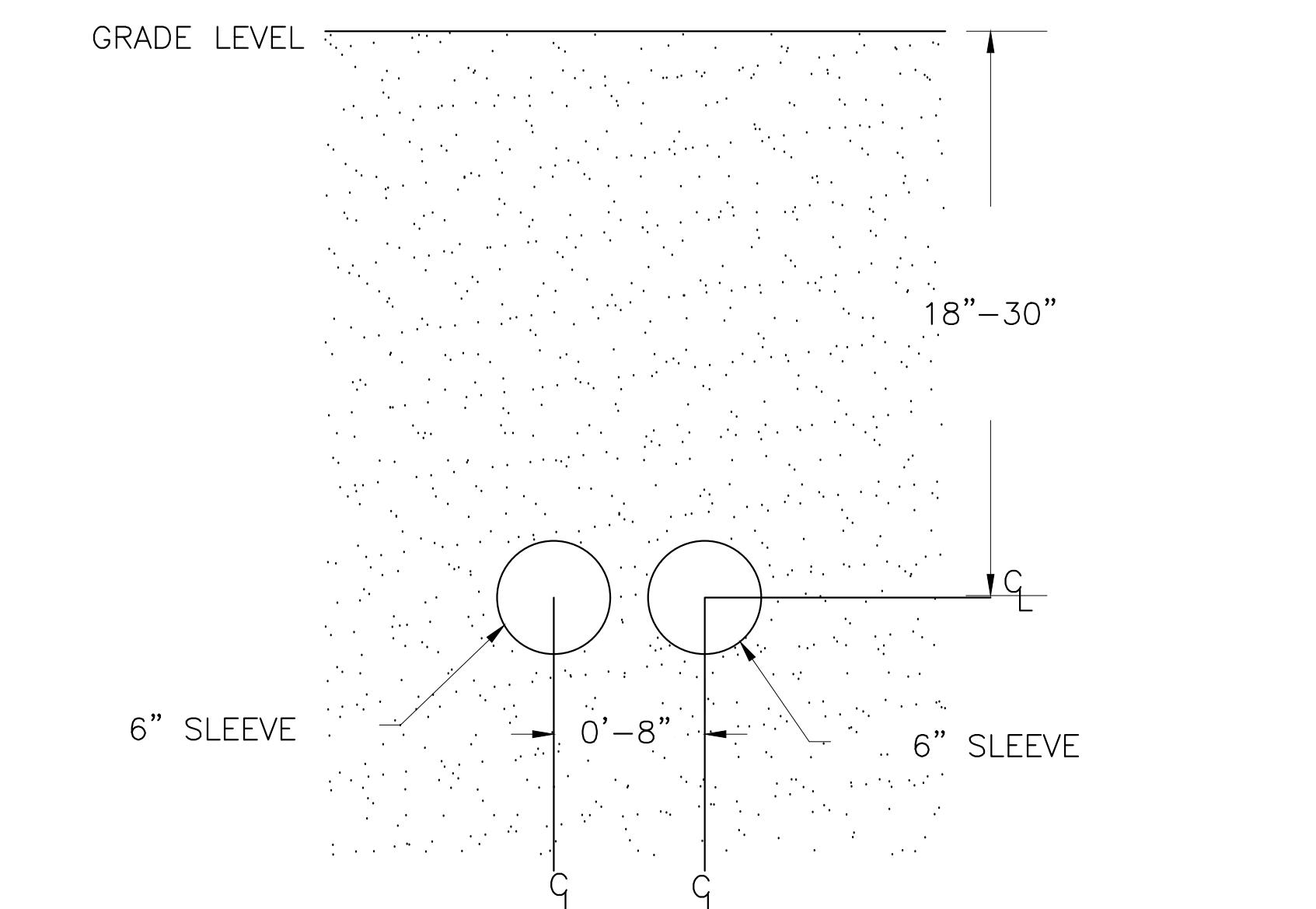
SENSOR TYPES INCLUDE:

ONW-D-1001-MV-N

① PROVIDE SENSING CONDUCTOR TAPPED AHEAD OF ANY SWITCHES WHERE SWITCH SERVES EMERGENCY FIXTURES.



2 CONNECTION) OCCUPANCY/VACANCY-SINGLE LEVEL
WIRING DIAGRAM-LOW VOLTAGE WALL SWITCH SENSOR(NEUTRAL)
E-400.02 N.T.S



- NOTES:**
1. COORDINATE EXACT LOCATION WITH CON EDISON.
 2. PROVIDE QUANTITY OF SLEEVES AS SHOWN ON DRAWINGS. NOT LESS THAN NUMBER REQUIRED BY UTILITY PLUS 50% SPARE.
 3. EXTEND SLEEVES 12" OUTSIDE WALL IN ACCORDANCE WITH UTILITY STANDARDS.

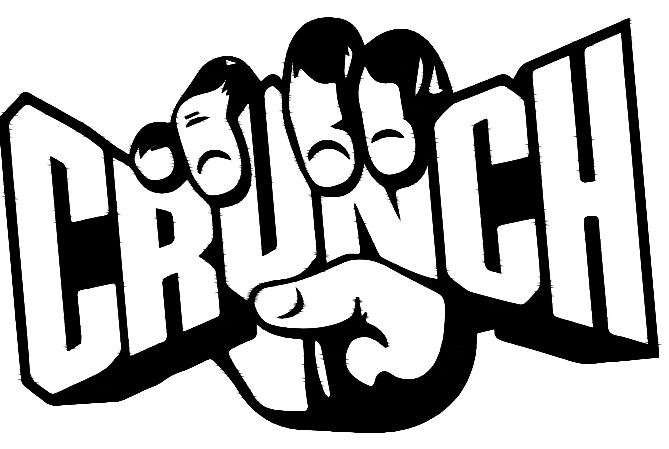
1 INCOMING SERVICE SLEEVE DETAILS
E-400.02 N.T.S

CRUNCH FITNESS
3634 BELL ROAD
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ELECTRICAL DETAILS
SHEET 2 OF 2

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:		
DATE:	10/27/2023	
PROJECT NO:	22-45	

E400.2



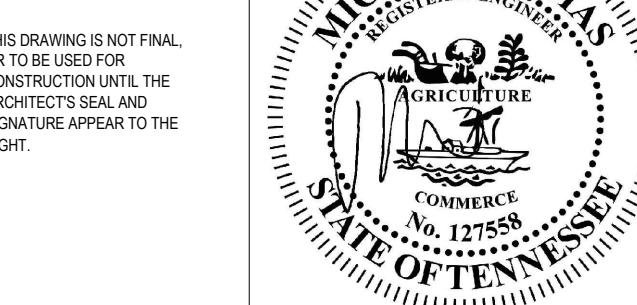
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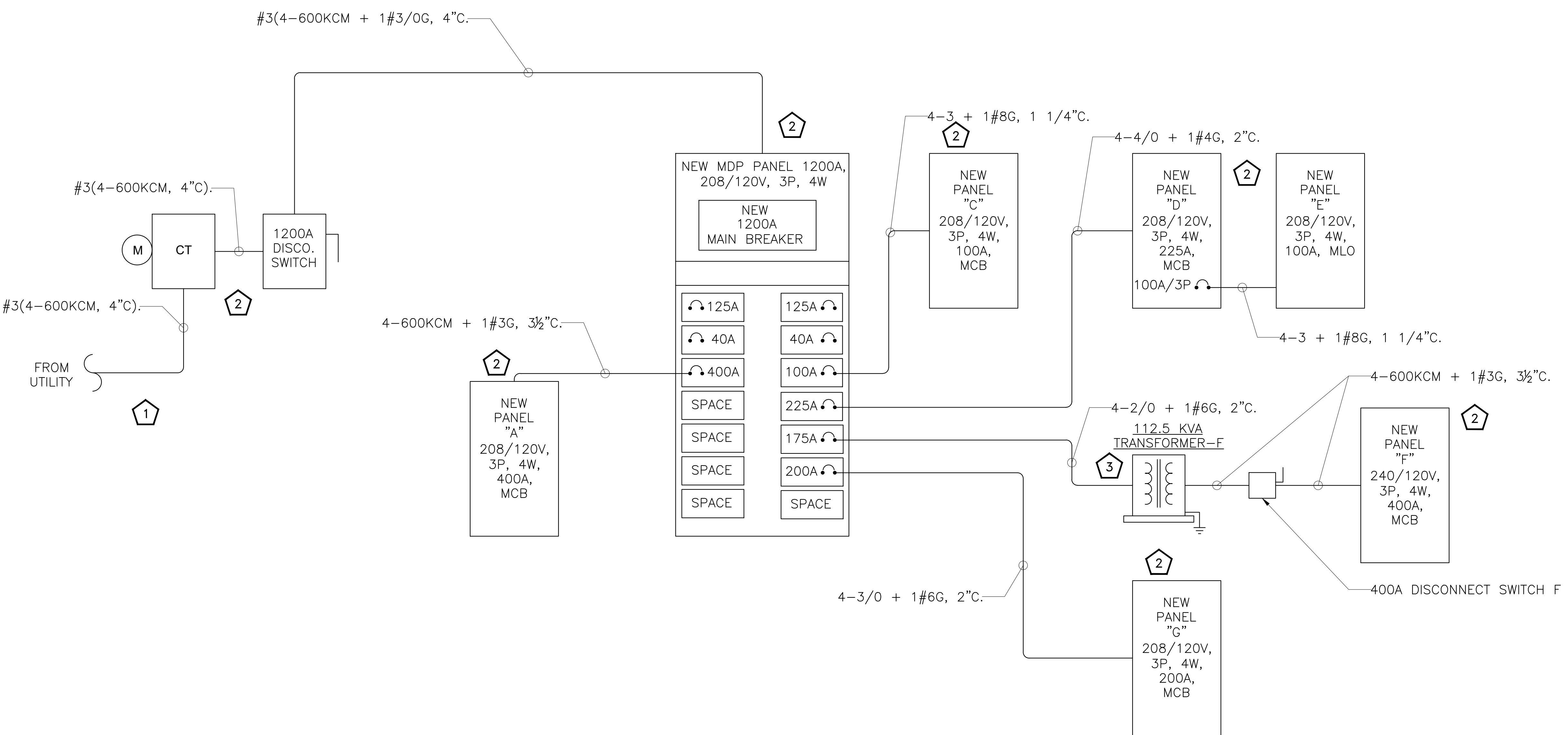
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PROJECT TEAM
BUILDING OWNER TBD
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MECHANICAL PLUMBING GENERAL Norby Engineers Fitness Gurus, LLC 1100 University Road, Suite 216 Cincinnati, OH 45240 (859) 992-3859 Frank Lauch flauch@norbyengineers.com
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ELECTRICAL RISER DIAGRAM



ELECTRICAL RISER SYMBOLS:

- NEW
- - - EXISTING ITEM/FEEDER TO REMAIN
- - X EXISTING ITEM/FEEDER TO BE DISCONNECTED & REMOVED

RISER DIAGRAM GENERAL NOTE:

- E.C. SHALL VERIFY INCOMING SERVICE AMPERAGE, WIRE SIZING AND DISTRIBUTION.
- ELECTRICAL CONTRACTOR TO COORDINATE FAULT CURRENT (Isc) RATING WITH UTILITY COMPANY AND AHJ PRIOR TO BID
- CONTRACTOR TO VERIFY EXACT POWER DISTRIBUTION IN FIELD. VERIFY SCOPE OF WORK WITH OWNER. PRIOR TO BID.

RISER DIAGRAM KEYED NOTES:

- EXISTING 600 A, 208/120V, 3-PHASE, 4-WIRE ELECTRICAL SERVICE TO BE UPGRADED TO NEW 1200A, 208/120V, 3-PHASE, 4-WIRE. E.C. TO COORDINATE WITH OWNER/UTILITY FOR MORE INFORMATION. VERIFY SCOPE OF WORK WITH OWNER/ARCHITECT. BASE BID ACCORDINGLY.
- NEW ELECTRICAL EQUIPMENT FOR THE PROJECT SPACE. E.C. SHALL CO-ORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATION OF PANEL.
- NEW ELECTRICAL TRANSFORMER "F" 208V TO 240V FOR THE PROJECT SPACE. E.C. SHALL CO-ORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATION OF THE TRANSFORMER. E.C. TO COORDINATE WITH MANUFACTURER FOR THE AVAILABILITY OF TRANSFORMER WITH 240V SECONDARY VOLTAGE AND PROVIDE ACCORDINGLY.

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:		
DATE:	10/27/2023	
PROJECT NO:	22-45	

E500.1

PANEL:	MDP	(NEW)											MOUNTING: SURFACE		
208Y/120	VOLTS,		3	PHASE	4	WIRE						PANEL LOCATION:	ELE. ROOM		
MCB	1200	A	BUS:	1200A	MIN.							FED FROM:	SERVICE DISCONNECT		
NOTE: L : LIGHTING, H : HVAC LOAD, M : MOTOR LOAD, R : RECEPTACLES, O : OTHER/MISC. (TYPICAL)															
CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA)			MINIMUM BRANCH CIRCUIT		LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
1	125/3P	RTU-7 (N)	H	9.61	3#1, 1#6, 1 1/4"C	19.22			3#1, 1#6, 1 1/4"C		9.61	H	RTU-8 (N)	125/3P	2
3			H	9.61			19.22				9.61	H			4
5			H	9.61				19.22			9.61	H			6
7	40/3P	RTU-9 (N)	H	2.79	3#8, 1#10, 3/4"C	5.58			3#8, 1#10, 3/4"C		2.79	H	RTU-10 (N)	40/3P	8
9			H	2.79			5.58				2.79	H			10
11			H	2.79				5.58			2.79	H			12
13	400/3P	TO NEW PANEL A	O	32.05	4#600KCM, 1#3, 3 1/2"C	40.53			4#3, 1#8, 1 1/4"C		8.48	O	TO NEW PANEL C	100/3P	14
15			O	32.05			40.53				8.48	O			16
17			O	32.05				40.53			8.48	O			18
19	20	SPARE				19.53			4#3, 1#8, 1 1/4"C		19.53	O	TO NEW PANEL D	225/3P	20
21	20	SPARE					19.53				19.53	O			22
23	20	SPARE						19.53			19.53	O			24
25	20	SPARE				24.67			4#2/0, 1#6, 2"C		24.67	O	TO NEW PANEL F	175/3P	26
27	20	SPARE					24.67				24.67	O			28
29	20	SPARE						24.67			24.67	O			30
31	20	SPARE				16.71			4#3/0, 1#6, 2"C		16.71	O	TO NEW PANEL G	200/3P	32
33	20	SPARE					16.71				16.71	O			34
35	20	SPARE						16.71			16.71	O			36
37	20	SPARE				0.00							SPARE		20
39	20	SPARE					0.00						SPARE		40
41	20	SPARE						0.00					SPARE		42

EL:	D	(NEW)										MOUNTING: SURFACE		
120	VOLTS,		3	PHASE	4	WIRE						PANEL LOCATION:	ELE. ROOM	
	225	A	BUS:	225A	MIN.							FED FROM:	MDP	
L : LIGHTING, H : HVAC LOAD, M : MOTOR LOAD, R : RECEPTACLES, O : OTHER/MISC. (TYPICAL)														
NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA)		MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.	
	20	SPARE				0.00						SPARE	20	2
	20	SPARE					0.00					SPARE	20	4
	20	SPARE					0.00					SPARE	20	6
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C	1.36		MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.	
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C		1.36					SPARE	20	8
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C			MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.	
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C		1.36					SPARE	20	10
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C			MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.	
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C		1.36					SPARE	20	12
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C	1.36		MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.	
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C		1.36					SPARE	20	14
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C		1.36	MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.	
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C		1.36					SPARE	20	16
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C			MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.	
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C		1.36					SPARE	20	18
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C	2.72		MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.	
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C		2.72					EQ-1 TREAD MILL	20	20
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C			MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.	
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C		1.92					EQ-1 TREAD MILL	20	22
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C			MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.	
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C		1.92					EQ-2-STAIR MILL	20	24
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C	1.92		MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.	
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C		1.92					EQ-2-STAIR MILL	20	26
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C			MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.	
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C		1.92					EQ-2-STAIR MILL	20	28
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C			MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.	
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C		1.92					EQ-2-STAIR MILL	20	30
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C	1.92		MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.	
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C		1.92					EQ-2-STAIR MILL	20	32
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C			MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.	
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C		1.92					EQ-2-STAIR MILL	20	34
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C			MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.	
	20	EQ-1 TREAD MILL	E	1.36	2#12, 1#12, 3/4"C		1.92					EQ-2-STAIR MILL	20	36
	100/3P	TO NEW PANEL E	O	9.96	4#3, 1#8, 1 1/4"C	10.52		MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.	
			O	9.96			10.52					EQ-2-STAIR MILL	20	38
			O	9.96								EQ-2-STAIR MILL	20	40
							10.52					EQ-2-STAIR MILL	20	42

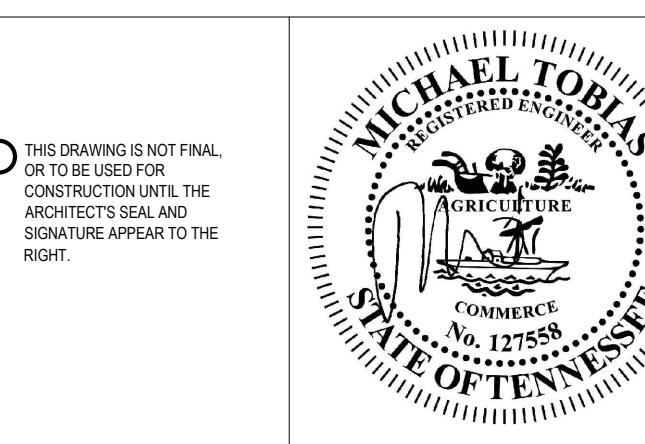


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PANEL:	A	(NEW)											MOUNTING:	SURFACE
208Y/120	VOLTS,		3	PHASE	4	WIRE						PANEL LOCATION:	ELE. ROOM	
MCB	400A	A	BUS:	400A	MIN.							FED FROM:	MDP	
NOTE: L : LIGHTING, H : HVAC LOAD, M : MOTOR LOAD, R : RECEPTACLES, O : OTHER/MISC. (TYPICAL)														
CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA)			MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
1	60/3P	RTU-5 (E)	H	5.09	3#6, 1#10, 3/4"C	10.18			3#6, 1#10, 3/4"C	5.09	H	RTU-1 (E)	60/3P	2
3			H	5.09			10.18			5.09	H			4
5			H	5.09				10.18		5.09	H			6
7	60/3P	RTU-4 (E)	H	5.09	3#6, 1#10, 3/4"C	10.18			3#6, 1#10, 3/4"C	5.09	H	RTU-3 (E)	60/3P	8
9			H	5.09			10.18			5.09	H			10
11			H	5.09				10.18		5.09	H			12
13	60/3P	RTU-6 (E)	H	5.09	3#6, 1#10, 3/4"C	10.18			3#6, 1#10, 3/4"C	5.09	H	RTU-2 (E)	60/3P	14
15			H	5.09			10.18			5.09	H			16
17			H	5.09				10.18		5.09	H			18
19	20	EX. EXIT / EM. LIGHTS	L	1.00	2#12, 1#12, 3/4"C	1.00						SPARE		30
21	20	ROOF SERVICE RECEPTACLE	R	0.72	2#12, 1#12, 3/4"C		0.72					SPARE		20
23	20	SPARE						1.00	2#12, 1#12, 3/4"C	1.00	R	EX. FACP		24
25	20	SPARE				0.72			2#12, 1#12, 3/4"C	0.72	R	HYDRO MASSAGE GENERAL RECP.		26
27	20	SPARE					0.36		2#12, 1#12, 3/4"C	0.36	R	KBL LAY DOWN GENERAL RECP.		28
29	20	SPARE						0.72	2#12, 1#12, 3/4"C	0.72	R	KBL STAND UP GENERAL RECP.		30
31	20	SPARE				0.00						SPARE		32
33	20	SPARE					0.00					SPARE		34
35	20	SPARE						0.00				SPARE		36
37	20	SPARE				0.00						SPARE		38
39	20	SPARE					0.00					SPARE		40
41	20	SPARE						0.00				SPARE		42

EL:	E	(NEW)										MOUNTING: SURFACE		
120	VOLTS,		3	PHASE	4	WIRE						PANEL LOCATION:	ELE. ROOM	
	100	A		BUS:	125A	MIN.						FED FROM:	A	
L : LIGHTING, H : HVAC LOAD, M : MOTOR LOAD, R : RECEPTACLES, O : OTHER/MISC. (TYPICAL)														
NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA)			MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
						A	B	C						
1	20	LIGHTING-MAIN WORKOUT AREA	L	1.50	2#12, 1#12, 3/4"C	2.40			2#12, 1#12, 3/4"C	0.90	L	LOCKER AND SHOWER LIGHTING	20	2
2	20	LIGHTING-MAIN WORKOUT AREA	L	1.87	2#12, 1#12, 3/4"C		2.77		2#12, 1#12, 3/4"C	0.90	L	LOCKER AND SHOWER LIGHTING	20	4
3	20	LIGHTING-MAIN WORKOUT AREA	L	1.76	2#12, 1#12, 3/4"C			3.01	2#12, 1#12, 3/4"C	1.25	L	GROUP FITNESS LIGHTING	20	6
4	20	LIGHTING-MAIN WORKOUT AREA	L	1.32	2#12, 1#12, 3/4"C	1.72			2#12, 1#12, 3/4"C	0.40	M	GROUP FITNESS FAN	20	8
5	20	LIGHTING-MAIN WORKOUT AREA	L	1.76	2#12, 1#12, 3/4"C		1.96		2#12, 1#12, 3/4"C	0.20	L	OFFICE GOOSENICK	20	10
6	20	LIGHTING-MAIN WORKOUT AREA	L	1.50	2#12, 1#12, 3/4"C			1.70	2#12, 1#12, 3/4"C	0.20	L	GROUP FITNESS TRACK LIGHTING	20	12
7	20	LIGHTING-MAIN WORKOUT AREA	L	1.62	2#12, 1#12, 3/4"C	1.62						SPARE	20	14
8	20	LIGHTING-MAIN WORKOUT AREA	L	1.35	2#12, 1#12, 3/4"C		1.35					SPARE	20	16
9	20	HITZONE AREA LIGHTING	L	0.90	2#12, 1#12, 3/4"C			0.90				SPARE	20	18
10	20	HOT YOGA LIGHTING	L	0.90	2#12, 1#12, 3/4"C	0.90						SPARE	20	20
11	20	HOT YOGA LIGHTING	L	0.45	2#12, 1#12, 3/4"C		0.45					SPARE	20	22
12	20	EXTERIOR SIGNAGE	L	1.20	2#12, 1#12, 3/4"C			1.20				SPARE	20	24
13	25	MIRROR BACK LIGHT	L	0.10	2#12, 1#12, 3/4"C	0.10						SPARE	20	26
14	25	MIRROR BACK LIGHT	L	0.10	2#12, 1#12, 3/4"C		0.10					SPARE	20	28
15	20	LIGHTING-KBL STAND UP	L	1.20	2#12, 1#12, 3/4"C			1.20				SPARE	20	30
16	20	LIGHTING-RELAX AND RECOVER	L	1.00	2#12, 1#12, 3/4"C	1.00						SPARE	20	32
17	20	TC - TIME CLOCK	L	0.10	2#12, 1#12, 3/4"C		0.10					SPARE	20	34
18	20	LIGHTING-MAIN WORKOUT AREA	L	1.35	2#12, 1#12, 3/4"C			1.35				SPARE	20	36
19	20	OFFICE LIGHTING, STORAGE	L	0.30	2#12, 1#12, 3/4"C	0.30						SPARE	20	38
20	20	UTILITY ROOM/STORAGE LIGHTING	L	0.30	2#12, 1#12, 3/4"C		0.30					SPARE	20	40
21	20	ELECTRICAL ROOM LIGHTING	L	0.30	2#12, 1#12, 3/4"C			0.30				SPARE	20	42



PANEL:	C	(NEW)											MOUNTING:	SURFACE
208Y/120	VOLTS,		3	PHASE	4	WIRE							PANEL LOCATION:	ELE. ROOM
MCB	100	A	BUS:	125A	MIN.								FED FROM:	MDP
NOTE: L : LIGHTING, H : HVAC LOAD, M : MOTOR LOAD, R : RECEPTACLES, O : OTHER/MISC. (TYPICAL)														
CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA)			MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
1	20	DRINKING FOUNTAIN	R	0.36	2#12, 1#12, 3/4"C	0.54			2#12, 1#12, 3/4"C	0.18	R	SPEAKER / MICROPHONE RECEP.	20	2
3	20	PANIC DOOR HARDWARE	R	0.36	2#12, 1#12, 3/4"C		0.72		2#12, 1#12, 3/4"C	0.36	R	HIIT ZONE MUSIC CONTROLS	20	4
5	20	GENERAL RECEPTACLE	R	0.18	2#12, 1#12, 3/4"C			0.54	2#12, 1#12, 3/4"C	0.36	R	HIIT ZONE CEILING RECEPTACLES	20	6
7	20	GENERAL RECEPTACLE - MAIN GYM	R	1.00	2#12, 1#12, 3/4"C	1.36			2#12, 1#12, 3/4"C	0.36	R	HIIT ZONE GENERAL RECEPTACLES	20	8
9	20	PT WORKSTATION PC - MAIN GYM	R	0.50	2#12, 1#12, 3/4"C		2.30		2#12, 1#12, 3/4"C	1.80	E	J.B. FOR HAND DRYER	20	10
11	20	PT WORKSTATION TV - MAIN GYM	R	0.80	2#12, 1#12, 3/4"C			2.60	2#12, 1#12, 3/4"C	1.80	E	J.B. FOR HAND DRYER	20	12
13	20	RECEPTION TV RECEPTACLE	R	0.80	2#12, 1#12, 3/4"C	1.52			2#12, 1#12, 3/4"C	0.72	R	VANITY GFI RECEPTACLE	20	14
15	20	RECEPTION DESK RECEPTACLE	R	0.72	2#12, 1#12, 3/4"C		2.52		2#12, 1#12, 3/4"C	1.80	E	J.B. FOR HAND DRYER	20	16
17	20	RECEPTION DESK RECEPTACLE	R	0.72	2#12, 1#12, 3/4"C			2.52	2#12, 1#12, 3/4"C	1.80	E	J.B. FOR HAND DRYER	20	18
19	20	RECEPTION DESK RECEPTACLE	R	0.36	2#12, 1#12, 3/4"C	1.08			2#12, 1#12, 3/4"C	0.72	R	VANITY GFI RECEPTACLE	20	20
21	20	RECEPTION CEILING RECEPTACLE	R	0.54	2#12, 1#12, 3/4"C		0.72		2#12, 1#12, 3/4"C	0.18	R	TTLB RECEPTACLE	20	22
23	20	GENERAL RECP. ELE. ROOM	R	0.36	2#12, 1#12, 3/4"C			1.80	2#12, 1#12, 3/4"C	1.44	R	LOCKER ROOM - GENERAL RECP.	20	24
25	20	CHECK IN RECEPTACLE	R	0.36	2#12, 1#12, 3/4"C	0.61			2#12, 1#12, 3/4"C	0.25	R	OFFICE PC RECEPTACLE	20	26
27	20	SPARE					0.40		2#12, 1#12, 3/4"C	0.40	R	OFFICE TV RECEPTACLE	20	28
29	20	SPARE						1.44	2#12, 1#12, 3/4"C	1.44	R	LOCKER ROOM - GENERAL RECP.	20	30
31	20	SPARE				0.50			2#12, 1#12, 3/4"C	0.50	R	VENDING MACHINE	20	32
33	20	SPARE					0.50		2#12, 1#12, 3/4"C	0.50	R	VENDING MACHINE	20	34
35	20	GF SPEAKER	R	0.18	2#12, 1#12, 3/4"C		1.08		2#12, 1#12, 3/4"C	0.90	R	GENERAL RECEPTACLES	20	36
37	20	GF DIGITAL CLOCK	R	0.18	2#12, 1#12, 3/4"C	1.62			2#12, 1#12, 3/4"C	1.44	R	LOCKER ROOM - GENERAL RECP.	20	38
39	20	GF GENERAL RECEPTACLE	R	0.90	2#12, 1#12, 3/4"C		0.90					SPARE	20	40
41	20	CELL LOCKER RECEPTACLE	R	0.18	2#12, 1#12, 3/4"C			0.18				SPARE	20	42

EL:	F	(NEW)									MOUNTING: SURFACE		
40	VOLTS,		3	PHASE	4	WIRE				PANEL LOCATION: STORAGE			
	400A		BUS:	400A	MIN.					FED FROM: XMER F			
L : LIGHTING, H : HVAC LOAD, M : MOTOR LOAD, R : RECEPTACLES, O : OTHER/MISC. (TYPICAL)													
N.O.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA)		MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
	40/3P	KBL STAND UP	E	3.00	3#8, 1#10, 3/4"C	5.50		2#10, 1#10, 3/4"C	2.50	E	HYDRO MASSAGE	30/2P	2
			E	3.00			5.50		2.50	E			4
			E	3.00				2#10, 1#10, 3/4"C	2.50	E	HYDRO MASSAGE	30/2P	6
	40/3P	KBL STAND UP	E	3.00	3#8, 1#10, 3/4"C	5.50			2.50	E			8
			E	3.00			5.50	2#10, 1#10, 3/4"C	2.50	E	HYDRO MASSAGE	30/2P	10
			E	3.00					2.50	E			12
3	40/3P	KBL STAND UP	E	3.00	3#8, 1#10, 3/4"C	5.50		2#10, 1#10, 3/4"C	2.50	E	HYDRO MASSAGE	30/2P	14
5			E	3.00			5.50		2.50	E			16
7			E	3.00				2#10, 1#10, 3/4"C			SPARE	20	18
9	40/3P	KBL STAND UP	E	3.00	3#8, 1#10, 3/4"C	3.00					SPARE	20	20
1			E	3.00			3.00				SPARE	20	22
3			E	3.00							SPARE	20	24
5	40/3P	KBL LAY DOWN	E	3.00	3#8, 1#10, 3/4"C	3.00					SPARE	20	26
7			E	3.00			3.00	3#8, 1#10, 3/4"C			SPARE	20	28
9			E	3.00							SPARE	20	30
1	40/3P	KBL LAY DOWN	E	3.00	3#8, 1#10, 3/4"C	3.00					SPARE	20	32
3			E	3.00			3.00				SPARE	20	34
5			E	3.00							SPARE	20	36
7	20	SPARE				0.00					SPARE	20	38
9	20	SPARE					0.00				SPARE	20	40
1	20	SPARE						0.00			SPARE	20	42

PANEL SCHEDULE ABBREVIATIONS: L = LIGHTING, R = RECEPTACLE, H = HVAC, E = EQUIPMENT, M = MOTOR, O = OTHER
PANEL SCHEDULE GENERAL NOTES:
A. E.C. SHALL VERIFY IF THE RATING OF THE BREAKERS AND FEEDER SIZE FOR EACH AND EVERY EQUIPMENT IS CORRECT AND ALL THE EQUIPMENT HAVE BEEN INCLUDED IN THE PANEL SCHEDULE. PRIOR TO BID, INFORM ENGINEER ON RECORD IN CASE OF ANY DISCREPANCY.
B. THE RECEPTACLES MARKED AS "GFI" ON THE FLOOR PLAN INDICATES THAT THE RECEPTACLE SHALL BE GFI PROTECTED. E.C. SHALL PROVIDE GFI BREAKER IN PANEL IF GFI RECEPTACLE IS NOT READILY ACCESSIBLE OR FOR THE RECEPTACLES OTHER THAN 20A.
C. E.C. SHALL VERIFY THE OPERABLE CONDITION OF THE BREAKERS IN THE EXISTING PANEL IN THE FIELD. REPLACE OR PROVIDE NEW BREAKER IN THE EXISTING PANEL TO BE IN LINE WITH THE PANEL SCHEDULE, IF REQUIRED. BASE BID ACCORDINGLY.
D. (*) IN THE PANEL SCHEDULE INDICATES THAT THE EXISTING BREAKERS SHALL BE REPLACED WITH NEW BREAKERS AS INDICATED ON THE DRAWING.
E. (**) IN THE PANEL SCHEDULE INDICATES THAT THE E.C. SHALL COORDINATE WITH THE OWNER FOR EXACT BREAKER RATING AND WIRE SIZE IN THE FIELD. PROVIDE BREAKER AND WIRING AS REQUIRED.

EL:	G	(NEW)									MOUNTING: SURFACE		
120	VOLTS,		3	PHASE	4	WIRE				PANEL LOCATION: ELE. ROOM			
	200	A	BUS:	225A	MIN.					FED FROM: MDP			
L : LIGHTING, H : HVAC LOAD, M : MOTOR LOAD, R : RECEPTACLES, O : OTHER/MISC. (TYPICAL)													
N.O.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA)		MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
	20	WATER HEATER (WH-1)	O	0.36	2#12, 1#12, 3/4"C	2.01		2#12, 1#12, 3/4"C	1.65	E	WASHER	20	2
	20	WATER HEATER (WH-1)	O	0.36	2#12, 1#12, 3/4"C		2.86			E	DRYER	30/2P	4
	20	WATER HEATER (WH-1)	O	0.36	2#12, 1#12, 3/4"C			2#10, 1#10, 3/4"C	2.50	E		6	
	20	RECIRCULATION PUMP (CP-1)	O	1.84	2#12, 1#12, 3/4"C	3.04		2#12, 1#12, 3/4"C	1.20	R	MAIN GYM AREA TV RECEPTACLE	20	8
	20	SPARE					1.20	2#12, 1#12, 3/4"C	1.20	R	MAIN GYM AREA TV RECEPTACLE	20	10
	20	HOT YOGA TV RECEPTACLE	R	1.20	2#12, 1#12, 3/4"C			2#12, 1#12, 3/4"C	1.20	R	MAIN GYM AREA TV RECEPTACLE	20	12
	20	ROOF RECEPTACLE	R	0.90	2#12, 1#12, 3/4"C	2.10		2#12, 1#12, 3/4"C	1.20	R	MAIN GYM AREA TV RECEPTACLE	20	14
	20	ROOF RECEPTACLE	R	0.90	2#12, 1#12, 3/4"C		2.10	2#12, 1#12, 3/4"C	1.20	R	MAIN GYM AREA TV RECEPTACLE	20	16
	20	ROOF RECEPTACLE	R	0.18	2#12, 1#12, 3/4"C			2#12, 1#12, 3/4"C	1.20	R	MAIN GYM AREA TV RECEPTACLE	20	18
	20	HOT YOGA TV RECEPTACLE	R	1.20	2#12, 1#12, 3/4"C	2.40		2#12, 1#12, 3/4"C	1.20	R	MAIN GYM AREA TV RECEPTACLE	20	20
	20	HOT YOGA RECEPTACLE	R	0.54	2#12, 1#12, 3/4"C		1.74	2#12, 1#12, 3/4"C	1.20	R	MAIN GYM AREA TV RECEPTACLE	20	22
	20	SPARE						2#12, 1#12, 3/4"C	1.20	R	MAIN GYM AREA TV RECEPTACLE	20	24
	20	SPARE				0.80		2#12, 1#12, 3/4"C	0.80	R	MAIN GYM AREA TV RECEPTACLE	20	26
	30/2P	YOGA HEAT PANELS	O	2.40	2#10, 1#10, 3/4"C		3.60	2#12, 1#12, 3/4"C	1.20	R	MAIN GYM AREA TV RECEPTACLE	20	28
			O	2.40			2.40				SPARE	20	30
	30/2P	YOGA HEAT PANELS	O	2.40	2#10, 1#10, 3/4"C	2.40					SPARE	20	32
			O	2.40			3.05	2#12, 1#12, 3/4"C	0.65	H	AC-1(N)	20	34
	30/2P	YOGA HEAT PANELS	O	2.40	2#10, 1#10, 3/4"C		2.90	2#12, 1#12, 3/4"C	0.50	H	EF-1(N)	20	36
			O	2.40		2.90		2#12, 1#12, 3/4"C	0.50	H	EF-2(N)	20	38
	30/2P	YOGA HEAT PANELS	O	2.40	2#10, 1#10, 3/4"C	3.40		2#12, 1#12, 3/4"C	1.00	M	MAIN GYM AREA - BIG FAN	20	40
			O	2.40			3.40	2#12, 1#12, 3/4"C	1.00	M	MAIN GYM AREA - BIG FAN	20	42

CRUNCH FITNESS
3634 BELL ROAD
NASHVILLE, TN 37214
CONSTRUCTION DRAWINGS

3634 BELL ROAD
NASHVILLE, TN 37214

**CONSTRUCTION DRAWINGS
APN: 09700013000**

ELECTRICAL PANEL SCHEDULES

O.	DESCRIPTION	DATE
PROJECT MANAGER	J. Johnson	
PROJECT ARCHITECT	F. Jennings	
ROLE:		E600.1
DATE:	10/27/2023	
PROJECT NO:	22-45	



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RIGHT.

MICHAEL TOTH,
Architect
State of Tennessee
Commerce
#127558

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BUILDING OWNER
TBD

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CRUNCH FITNESS

3634 BELL ROAD
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APN: 09700013000

PLUMBING SYMBOLS, ABBREVIATIONS, & NOTES

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:	N.T.S.	
DATE:	10/27/2023	
PROJECT NO:	22-45	

P001.1

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
— SAN —	SANITARY SEWER (UNDERFLOOR)
— VENT —	VENT PIPING
— COLD —	COLD WATER
— HOT —	HOT WATER
— RECIRC —	RECIRCULATING HOT WATER
— NEW —	NEW GAS PIPING
— SHUT —	GAS SHUT OFF VALVE
— PRESS —	PRESSURE REGULATOR
— CHECK —	CHECK VALVE
— BALANC —	BALANCING VALVE
— FLOOR —	FLOOR DRAIN
— PIPE —	PIPE DOWN
— PIPE —	PIPE UP
— UNION —	UNION
— ISOL —	ISOLATION VALVE
— CAP —	CAP ON END OF PIPE
— CLEAN —	CLEANOUT
— POINT —	POINT OF NEW CONNECTION

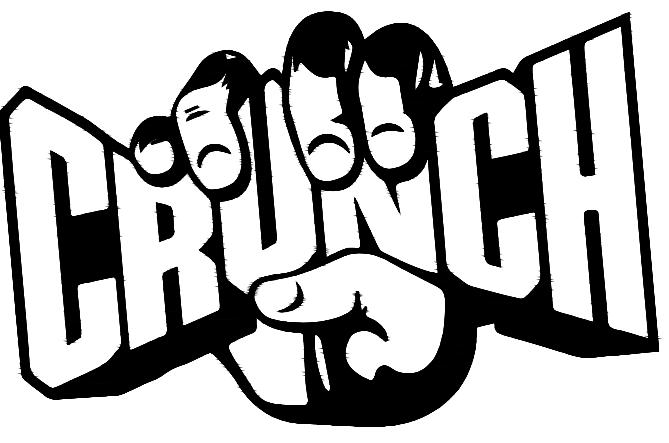
PLUMBING ABBREVIATIONS	
CO	CLEANOUT
CODP	CLEAN OUT DECK PLATE
CW	COLD WATER
HW	HOT WATER
HWR	HOT WATER RETURN
SAN	SANITARY
S	SOIL
W	WASTE
TYP.	TYPICAL
DN	DOWN
EXIST.	EXISTING
AFF	ABOVE FINISH FLOOR
FD	FLOOR DRAIN
SQ. FT.	SQUARE FEET
BFP	BACKFLOW PREVENTER
HS	HAND SINK

PLUMBING DRAWING LIST	
P001.1	PLUMBING SYMBOLS, ABBREVIATIONS, & NOTES
P100.1	PLUMBING WASTE PLAN AND RISER
P100.2	PLUMBING WATER SUPPLY PLAN AND RISER
P100.3	PLUMBING GAS PLAN
P500.1	PLUMBING DETAILS

BUILDING DEPARTMENT PLUMBING NOTES	
C.	THE ENGINEER'S REVIEW OF SUBMITTALS IS A COURTESY WHICH DOES NOT RELIEVE THE CONTRACTOR FROM CONFORMING WITH THE CONSTRUCTION DOCUMENTS, REGARDLESS OF THE ACTION INDICATED BY THE SHOP DRAWINGS STAMP.
D.	REVIEW OF SHOP DRAWINGS BY THE ENGINEER SHALL BE LIMITED TO THE INITIAL REVIEW, AND A SECOND REVIEW OF ANY REQUIRED RESUBMITTED DATA. IF THE ENGINEER IS REQUIRED TO REVIEW SUBMITTALS FOR THE THIRD (3RD) OR MORE SUBMISSIONS OF THE SAME ITEM, THE CONTRACTOR SHALL BE LIABLE FOR COMPENSATING THE ENGINEER FOR THESE SUBSEQUENT REVIEWS AS PER THE ENGINEER'S CURRENT HOURLY RATE SCHEDULE.
E.	SUBMIT PROOF OF APPROVAL AND/OR CONFIRMATION OF SATISFACTORY TEST RESULTS TO THE OWNER AND THE ARCHITECT.
F.	SUBMIT TO THE OWNER'S MAINTENANCE PERSONNEL OPERATION AND MAINTENANCE DATA FOR ALL SYSTEM COMPONENTS, SERVICING REQUIREMENTS, INSPECTION DATA, REPLACEMENT PART NUMBERS AND AVAILABILITY AND CONTACT INFORMATION FOR SERVICE/SUPPLY COMPANY.
G.	FOR ALL BELOW GRADE PIPING WHERE ACTUAL INSTALLATION DEVIATIONS FROM CONSTRUCTION DRAWINGS, THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS INDICATING BELOW GRADE PIPE LOCATIONS DIMENSIONED TO NEAREST COLUMN LINES.
H.	RECORD AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE OWNER/TENANT AFTER COMPLETION OF THE WORK SHOWING ANY ALTERATIONS, ADDITIONS AND/OR DELETIONS TO THE SYSTEM(S) INSTALLED.
I.	1.03 SUBSTITUTIONS
A.	ALL EQUIPMENT SHALL BE PRODUCTS OF THE SPECIFIED MANUFACTURER OR MANUFACTURERS. ALL BIDS SHALL BE BASED ON THE SPECIFIED MANUFACTURER OR MANUFACTURER'S EQUIPMENT, FOR SUBSTITUTIONS OF OTHER MANUFACTURER'S EQUIPMENT TO BE CONSIDERED, THE SUBSTITUTION MUST BE INDICATED PRIOR TO BIDDING WITH THE REASON FOR THE PROPOSED SUBSTITUTION IDENTIFIED AND THE PROPOSED CREDIT TO THE OWNER INDICATED. THE CONTRACTOR SHALL DETERMINE THE ACCEPTABILITY OF ANY PROPOSED SUBSTITUTIONS.
B.	THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR COORDINATING THE WORK OF OTHER TRADES WHICH MAY BE AFFECTED BY SUBSTITUTIONS, INCLUDING ALL RELATED COSTS.
C.	1.05 DEFINITIONS
A.	FURNISH: TO PURCHASE, ACQUIRE AND DELIVER, COMPLETE, WITH RELATED ACCESSORIES.
B.	INSTALL: TO ERECT, MOUNT AND CONNECT, COMPLETE WITH RELATED ACCESSORIES.
C.	PROVIDE: TO FURNISH AND INSTALL.
D.	THE PLUMBING CONTRACTOR, THE CONTRACTOR, THIS CONTRACTOR, THE CONTRACTOR FOR PLUMBING WORK WHICH IS SPECIFIED HEREIN AND SHOWN ON THESE DRAWINGS.
E.	1.06 DRAWINGS
A.	THE DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO ILLUSTRATE THE GENERAL ARRANGEMENT AND ROUTING OF PIPING AND GENERAL LOCATIONS OF EQUIPMENT. PRECISE LOCATIONS OF EQUIPMENT, PIPING STACKS, DRAINS, ETC., AND ELEMENTS OF ALL PIPING SYSTEMS SHALL BE COORDINATED WITH THE FIELD WITH THE ARCHITECT, ARCHITECTURAL DRAWINGS, THE WORK OF OTHER TRADES, EXISTING AND NEW BUILDING CONDITIONS AND/OR THE PREFERENCES OF THE OWNER/TENANT AS CONSTRUCTION PROGRESSES. ALL PIPING SHALL BE INSTALLED CONCEALED IN FINISHED SPACES, UNLESS NOTED OTHERWISE.
B.	PROVIDE ALL NECESSARY INCIDENTAL MATERIALS AND ACCESSORIES REQUIRED TO MAKE THE WORK COMPLETE IN ALL RESPECTS, EVEN IF NOT PARTICULARLY SHOWN OR SPECIFIED.
C.	THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING BID TO DETERMINE CONDITIONS AND THE EXTENT OF WORK. BY COMMENCING WORK, THE CONTRACTOR ACKNOWLEDGES HIS CONSTRUCTION WORK CONDUCTS HIS ACCORDING TO THE REFERENCE TO HIS CONTRACT, SCOPE OF WORK AND BID PRICE SUCH THAT NO ADDITIONAL COMPENSATION SHALL BE FORTHCOMING FOR UNFORESEEN EXISTING CONDITIONS.
D.	VERIFY ALL INDICATED CONDITIONS BEFORE STARTING WORK AND REPORT ANY DISCREPANCIES. THE DRAWINGS REFLECT CONDITIONS WHICH CAN REASONABLY BE INTERPRETED FROM THE EXISTING VISIBLE CONDITIONS OR FROM DRAWINGS AND INFORMATION FURNISHED BY THE OWNER.
E.	LOCATE ALL FIXTURES AND EQUIPMENT AS PER THE FINAL ARCHITECTURAL DRAWINGS.
F.	COLOR AND FINISH SELECTIONS FOR ALL MATERIALS, INCLUDING PAINTING OF PIPING, SHALL BE AS DIRECTED AND/OR APPROVED BY THE ARCHITECT.
G.	MINOR DETAILS NOT SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER AND ACCEPTABLE CONSTRUCTION, INSTALLATION OR OPERATION OF ANY PART OF THE WORK AS DETERMINED BY THE ENGINEER SHALL BE INCLUDED AS IF SPECIFIED OR INDICATED ON THE DRAWINGS.
H.	THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIREMENTS FOR THE INSTALLATION, CONNECTION, EXTENSION OR MODIFICATION OF ALL UTILITY SERVICES WITH RESPECTIVE PROVIDERS INCLUDING PAYMENT OF ALL ASSOCIATED FEES.
I.	THE CONTRACTOR IS RESPONSIBLE FOR ALL PAINTING ASSOCIATED WITH CUTTING AND PATCHING. ALL PAINTING IN AREAS WITH COMPLETE FINISH REMOVALS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.
J.	1.02 SUBMITTALS
A.	SUBMITTAL REQUIREMENTS SHALL BE COORDINATED WITH THE ARCHITECT AND AUTHORITIES HAVING JURISDICTION. UNLESS OTHERWISE DIRECTED, CONTRACTOR SHALL PROVIDE SUBMITTALS AS LISTED BELOW.
1.	PIPE AND FITTINGS
2.	VALVES
3.	HANGERS AND SUPPORTS
4.	PLUMBING PIPING LAYOUT
5.	TESTS
6.	SCHEDULING PLUMBING EQUIPMENT
7.	WATER HEATER
B.	SUBMITTALS FROM SUPPLIERS OR MANUFACTURERS WHICH DO NOT HAVE A STAMP ON THE SUBMITTING CONTRACTOR INDICATING THAT THE CONTRACTOR HAS REVIEWED THE SUBMITTAL FOR CONFORMANCE WITH THE PROJECT REQUIREMENTS WILL BE RETURNED REJECTED.

MINIMUM PIPE INSULATION THICKNESS			
FLUID OPERATING TEMPERATURE RANGE AND USAGE (%)	CONDUCTIVITY BTU/IH.°F. (H.FIZ. °F.)	MEAN RATING TEMPERATURE, °F	NOMINAL PIPE OR TUBE SIZE (INCHES)
<1	<0.25	<1	1 to 1½ to 4 to 8 to 28
141-200	0.25-0.29	125	1.5 2 2 2
105-140	0.21-0.28	100	1.0 1.5 1.5 1.5
40-60	0.21-0.27	75	0.5 0.5 1.0 1.0

- K. PROVIDE DIELECTRIC FITTINGS BETWEEN DISSIMILAR METALS.
- L. PROVIDE ACCESS DOORS/PANELS FOR SERVICE AND ACCESS TO ALL VALVES AND OTHER SYSTEM COMPONENTS ENCLOSED IN WALLS AND CEILINGS. ACCESS DOORS SHALL BE FURNISHED BY THIS CONTRACTOR, INSTALLED BY THE GENERAL CONTRACTOR.
- M. ALL FIXTURES REQUIRING VACUUM BREAKERS SHALL BE EQUIPPED WITH INTEGRAL VACUUM BREAKERS.
- N. ANY PENETRATIONS THROUGH FIRE RATED PARTITIONS, FLOORS, OR CEILINGS SHALL BE STEEL SLEVED AND SEALED WITH 3M BRAND UL RATED FIRE BARRIER CAULK OR APPROVED EQUAL.
- O. WHEN THE WATER PIPING SYSTEM IS COMPLETE, THOROUGHLY FLUSH ALL DIRT, SEDIMENT, SOLDER, ETC., OUT OF THE SYSTEM, REMOVING ALL STRAINERS, VALVE STEM SEATS, ETC., REQUIRED TO ACCOMPLISH THE FLUSHING.
- P. AT ALL INDIRECT WASTE DRAINS, MAINTAIN AIR GAP AS REQUIRED BY CODE.
- Q. INSTALL SLEEVES FOR ALL PIPES WHICH PASS THROUGH WALLS, FLOORS, AND CEILINGS. WHERE PIPES ARE TO BE INSULATED, THE SLEEVE SHALL BE LARGE ENOUGH TO ACCOMMODATE INSULATION. A SLEEVE SHALL BE USED WITH FINISHED SURFACES AT BOTH ENDS. ON FINISHED SURFACES PROVIDE ESCUTCHEONS COMPATIBLE WITH FINISH.
- R. PIPE BACKFLOW PREVENTER DRAINS TO FLOOR DRAIN OR OTHER APPROVED INDIRECT WASTE SOURCE.
- S. GAS PIPING:
- 1. GAS PIPING SHALL BE SIZED IN ACCORDANCE WITH PIPE SIZING TABLES OR SIZING EQUATIONS IN ACCORDANCE WITH SECTION 402.4(7) OF IFCC 2018.
 - 2. METALLIC PIPE SHALL COMPLY WITH SECTIONS 403.4.1 THROUGH 403.4.4.
 - 3. PIPING SYSTEM INSTALLATION SHALL COMPLY WITH REQUIREMENTS OF IFCC SECTION 404.
- T. GAS PIPING SHALL BE SIZED IN ACCORDANCE WITH PIPE SIZING TABLES OR SIZING EQUATIONS IN ACCORDANCE WITH SECTION 402.4(7) OF IFCC 2018.
- U. WHERE EVIDENCE OF STOPPAGE IS FOUND IN PIPING OR EQUIPMENT, THIS CONTRACTOR SHALL DISCONNECT, CLEAN, REPAIR AND RECONNECT ALL OBSTRUCTED PIPING OR EQUIPMENT AND SHALL ALSO PAY FOR ALL NECESSARY CUTTING AND REPAIRS TO ADJUVANT WORK.
- V. ALL PIPING AND EQUIPMENT SHALL BE THOROUGHLY CLEANED INSIDE AND OUT OF DIRT, CUTTING OIL AND OTHER FOREIGN SUBSTANCES AND SHALL BE LEFT CLEAN.
- W. ALL REQUIRED TESTS SHALL BE WITNESSED BY LOCAL AUTHORITIES AND THE OWNER'S REPRESENTATIVE.
- X. CONTRACTOR SHALL IDENTIFY TO THE OWNER'S REPRESENTATIVE ANY LEAKS OR DAMAGE THAT OCCURS AS A RESULT OF SYSTEM TESTING. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO LIMIT ANY POTENTIAL DAMAGE. CORRECTIVE ACTION REQUIRED AS A RESULT OF TESTING SHALL BE PERFORMED IMMEDIATELY AND AT THE CONTRACTOR'S EXPENSE.
- Y. ALL EQUIPMENT WILL BE FACTORY TESTED.
- Z. REPORT IN WRITING TO AUTHORITIES HAVING JURISDICTION, THE ARCHITECT AND THE OWNER THE RESULTS OF ALL TESTING.
- AA. TESTING REQUIREMENTS
- A. ALL WORK WHICH REQUIRES DISRUPTION OF THE ROOFING SHALL BE DONE BY A CONTRACTOR CERTIFIED BY THE ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ANY EXISTING ROOF WARRANTIES.
 - B. PIPING INSTALLED UNDERGROUND BEHIND BUILDING IS PROHIBITED EXCEPT WHERE THE PIPING IS ENCASED IN A CONDUIT OF IRON, STEEL, OR OTHER MATERIAL WHICH CAN WITHSTAND SUPERIMPOSED LOADS. THE CONDUIT SHALL BE PROTECTED FROM CORROSION IN ACCORDANCE WITH SECTION 404.11 AND SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 404.11 OR 404.11.2 OF IFCC 2018.
 - C. EXTERIOR INSTALLATIONS TO BE WEATHER PROOF IN ALL RESPECTS.
 - D. EXTERIOR MATERIALS AND EQUIPMENT SHALL BE PAINTED TO PREVENT CORROSION COLOR PER ARCHITECT.
 - E. EXTERIOR MATERIALS AND EQUIPMENT SHALL BE PAINTED TO PREVENT CORROSION COLOR PER ARCHITECT.
 - F. COORDINATE THE PLUMBING WORK WITH ALL OTHER AFFECTED WORK AND THE CONSTRUCTION SCHEDULE.
 - G. REAM PIPE AND TUBE ENDS. REMOVE BURRS. BEVEL PLAIN AND FERRULE END PIPE.
 - H. REMOVE SCALE AND FOREIGN MATERIAL, FROM INSIDE AND OUTSIDE, BEFORE ASSEMBLY.
 - I. PREPARE PIPING CONNECTIONS TO EQUIPMENT WITH FLANGES AND UNIONS.
 - J. COORDINATION WITH THE WORK OF OTHER TRADES IS REQUIRED. PROVIDE OFFSETS, PIPING SYSTEMS OR MINOR DEVIATIONS TO THE PIPING SYSTEM IN ORDER TO COORDINATE THE PLUMBING WORK WITH THE WORK OF ALL OTHER TRADES AND THE GENERAL BUILDING CONDITIONS.
 - K. NO DOMESTIC WATER PIPING SHALL BE INSTALLED IN UNHEATED SPACES.
 - L. PRIOR TO DISCONNECTING AND CONNECTING NEW WORK TO EXISTING SYSTEM, THE PLUMBING CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER AND OBTAIN A PLATE NUMBER FOR THE SYSTEM. ON PORTION OF THE SYSTEM HAS BEEN TESTED, THE OWNER OR HIS REPRESENTATIVE SHALL SIGN OFF ON THE CONSTRUCTION. THE PLUMBING CONTRACTOR SHALL NOT PERFORM ANY WORK ON THE SYSTEM UNTIL THE ENTIRE SYSTEM HAS BEEN TESTED AND APPROVED BY THE LOCAL INSPECTOR AND APPROVED IN WRITING, EXCEPT PIPING PASSING THROUGH FLOORS, WALLS, PARTITIONS, OR BEAMS, FOR DISTANCES EQUAL TO THE THICKNESS OF SUCH FLOOR, WALL, PARTITION OR BEAM.
 - M. WHEN CONNECTING TO EXISTING STACKS AND RISERS, PROVISION IS TO BE MADE FOR FUTURE CONNECTIONS BY PROVIDING CAPPED AND VALVED OUTLETS ON DOMESTIC WATER RISERS AND PLUGGED OUTLETS ON THE SANITARY AND VENT STACKS.
 - N. THE PLUMBING CONTRACTOR IS ADVISED THAT DUE TO THE NATURE OF THE OWNERSHIP AND TENANT REQUIREMENTS, CONNECTIONS TO EXISTING SYSTEMS MAY HAVE TO BE MADE DURING REGULAR WORKING HOURS. THE PROPERTY OWNER WILL ADVISE THE PLUMBING CONTRACTOR OF THE TIME CONSTRAINTS UPON RECEIPT AND APPROVAL OF THE PLUMBING CONTRACTOR'S REQUEST FOR SHUT DOWN AND CONNECTION TO EXISTING SYSTEMS.
 - O. WHEN CONNECTING TO EXISTING STACKS AND RISERS, PROVISION IS TO BE MADE FOR FUTURE CONNECTIONS BY PROVIDING CAPPED AND VALVED OUTLETS ON DOMESTIC WATER RISERS AND PLUGGED OUTLETS ON THE SANITARY AND VENT STACKS.
 - P. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS OR CONNECTED EQUIPMENT. PROVIDE PIPING ANCHORS, RIDGES AND EXPANSION JOINTS OR LOOPS IN ALL HOT WATER AND HOT WATER CIRCULATING MAIN SUPPLY PIPING AND SEGMENTS OF SUCH PIPE THAT EXCEED 30'-0" IN LENGTH.
 - Q. IN ALL ARE



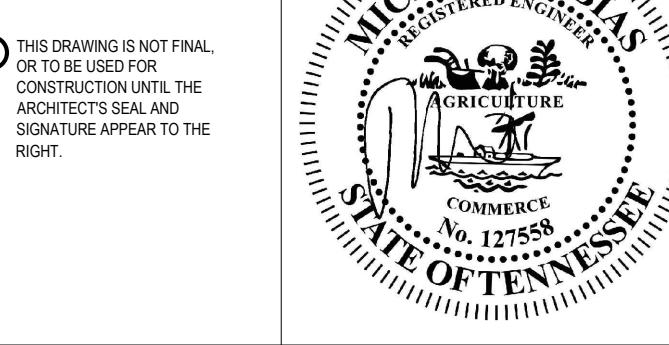
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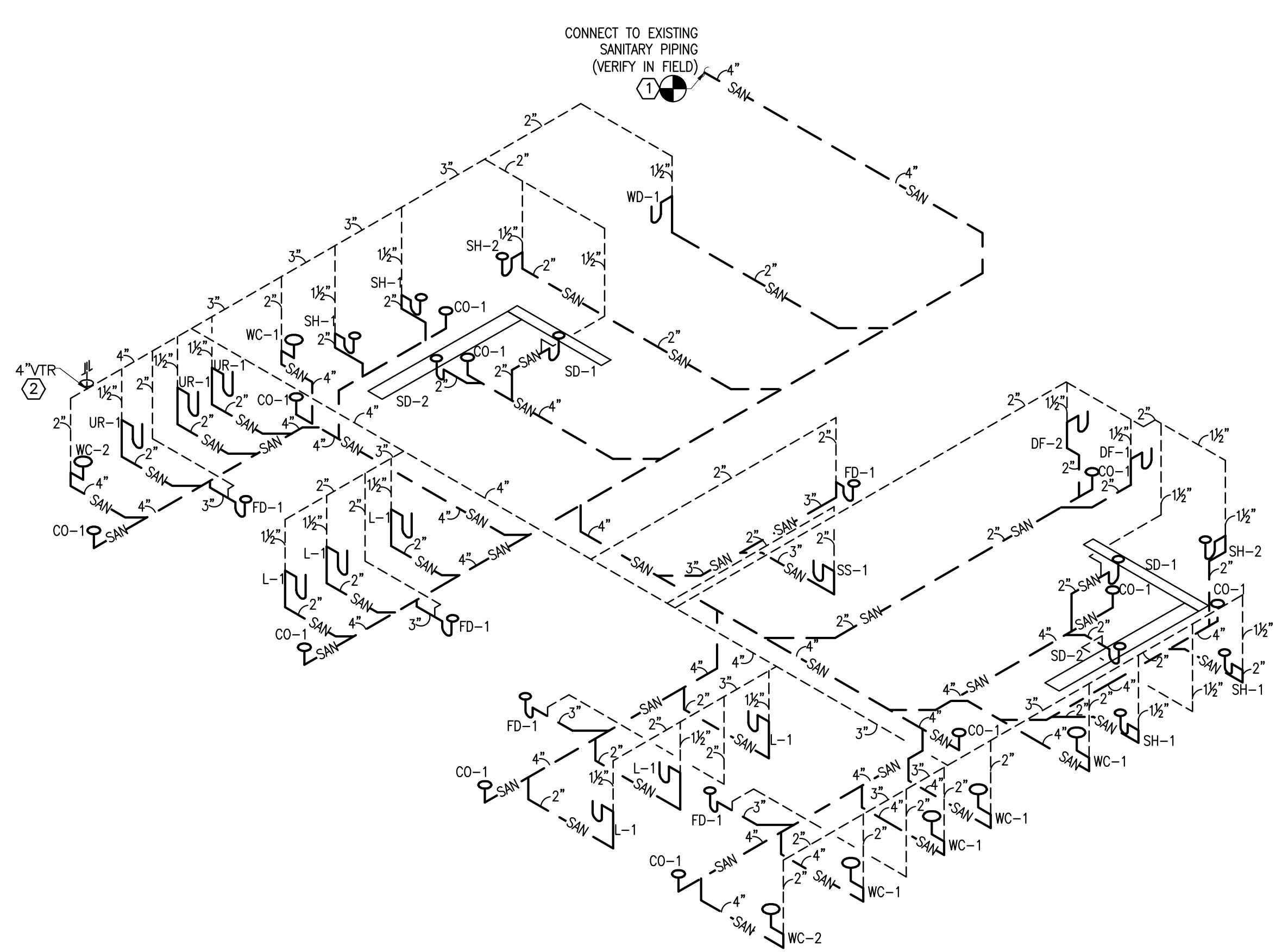


THE DRAWINGS ARE NOT FINAL.
FOR CONTRACTING CONSTRUCTION USE THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS APPEAR TO THE RIGHT.

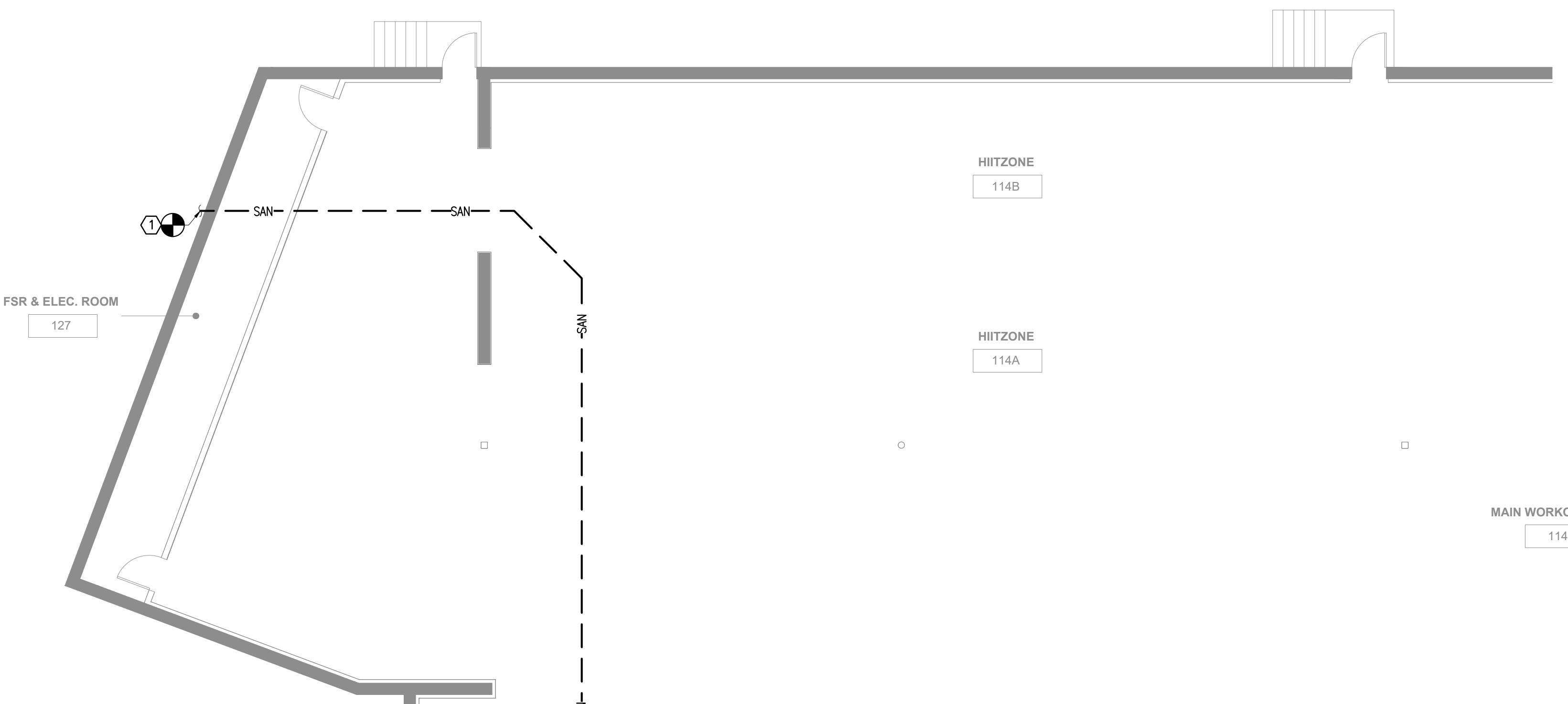
PLUMBING FIXTURE SCHEDULE

LEGEND	QUANTITY	PLUMBING FIXTURE	CONNECTION SIZE - INCHES				DESCRIPTION
			SOIL/WASTE	VENT	COLD WATER	HOT WATER	
WC-1	5	WATER CLOSET	4"	2"	1"	-	AMERICAN STANDARD, MADERA FLOWISE 16-1/2" HEIGHT ELONGATED FLUSHOMETER TOILET HIGH EFFICIENCY, LOW CONSUMPTION, OPERATES IN THE RANGE OF 1.1 GPF TO 1.6GPF FULLY GLAZED, ELONGATED BOWL, SLOAN G2 SENSOR FLUSHOMETER G2 8111-1-28, FLUSH VOLUME 1.28GPF
WC-2	2	ADA WATER CLOSET	4"	2"	1"	-	AMERICAN STANDARD, MADERA FLOWISE 16-1/2" HEIGHT ELONGATED FLUSHOMETER TOILET HIGH EFFICIENCY, LOW CONSUMPTION, OPERATES IN THE RANGE OF 1.1 GPF TO 1.6GPF FULLY GLAZED, ELONGATED BOWL, SLOAN G2 SENSOR FLUSHOMETER G2 8111-1-28, FLUSH VOLUME 1.28GPF
UR-1	3	URINAL	2"	1½"	¾"	-	AMERICAN STANDARD MODEL NO.6541.132 OR EQUIVALENT WALL HUNG URINAL TOP SPUD,SLOAN MODEL NO.186-0.5 FLUSH VALVE (0.5GPF).PROVIDE WALL HUNGER.
L-1	6	LAVATORY	2"	1½"	½"	½"	AMERICAN STANDARD STUDIO SUITE RECTANGULAR UNDERCOUNTER SINK /WHITE MODEL NO.0614.000.020, FAUCET-SLOAN OPTIMA SENSOR FAUCET /CHROME FINISH MODEL EA-100-PLG-ISM-CP-0.5GPM-MLM-IR-IQ-BTA-FCT
FD-1	5	FLOOR DRAIN	3"	2"	½"	T.P.	J.R. SMITH NO. 200502(-BOSNB-P050-U),WITH TRAP PRIMER CONNECTION,VANDAL PROOF SCREWS, 5" ROUND NICKEL BRONZE STRAINER OR EQUIVALENT.
TP-1	-	TRAP PRIMER	-	-	½"	-	P.P.P. INC MODEL NO PR-500 TRAP PRIMER VALVE-INSTALL DISTRIBUTION UNIT #DU-U FOR MULTIPLE FLOOR DRAINS OR EQUIVALENT.
SH-1	4	SHOWER	2"	1½"	¾"	¾"	J.R. SMITH NO. 2005 SHOWER DRINK, 5" ROUND CHROME PLATED STRAINER,SYMONS MODEL NO. S-951-1-131 PRESSURE BALANCING MIXING VALVE WITH STOP SCREW, INTEGRAL VOLUME CONTROL SHOWER HEAD WITH ARM AND FLANGE OR EQUIVALENT.
SH-2	2	ADA SHOWER	2"	1½"	¾"	¾"	J.R. SMITH NO. 2005 SHOWER DRINK, 5" ROUND CHROME PLATED STRAINER,SYMONS MODEL NO. 3-96-300-830-V HAND HELD SHOWER HEAD PRESSURE BALANCING MIXING VALVE WITH STOP SCREW,INTEGRAL VOLUME CONTROL SHOWER HEAD WITH ARM AND FLANGE OR EQUIVALENT.
WH-1	3	WATER HEATER	-	-	1"	1"	(2) RINNAI MODEL NO. GU1991 CONDENSING TANKLESS INDOOR COMMERCIAL WALL MOUNTED CONTINUOUS FLOW WATER HEATER 19000BTU/H INPUT EA. 59700 BTU/H TOTAL OR EQUIVALENT,COMPLETE WITH WALL MOUNTED REMOTE CONTROL UNIT,SET HEATER @140°F - SEE SHEET#-100.2 FOR LOCATION OF WATER HEATERS.
CP-1	1	RECIRCULATION PUMP	-	-	-	-	GRUNFOS MODEL NO. UP15-18 B5 RE-CIRCULATION PUMP,2GPM @12 FOOT OF HEAD, 115 (ELECTRICAL CONNECTION),115-120 VAC. (TIMER CONTROL), 60HZ (TIMER CONTROL),16 AMPS,TIME-CONTACT,CONTACT RATING) OR EQUIVALENT -SEE ELECTRICAL DRAWINGS FOR ELECTRICAL REQUIREMENTS.
ET-1	1	EXPANSION TANK	-	-	1"	-	WILKINS MODEL NO. WXP7-75V 20 GALLON DIAPHRAGM TYPE,PRE PRESSURIZED WITH WELDED EXTERIOR,BUTYL DIAPHRAGM AND EPOXY COATED EXTERIOR-ANCHOR EXPANSION TANK TO ROOF WITH L BRACKETS OR EQUIVALENT.
WHA-1		WATER HAMMER ARRESTOR	-	-	-	-	J.R. SMITH SERIES 5000 STAINLESS STEEL CONSTRUCTION WITH HEAVY DUTY EXPANSION BOWELS. EACH UNIT SHALL BE PROVIDED AND INSTALLED WITH WALL ACCESS COVER OR EQUIVALENT.
SD-1	2	SCHLUTER DRAIN	2"	1½"	-	-	SCHLUTER KERDI-LINE LINEAR DRAIN CHANNEL MODEL: KL1V 60E 160, WITH LINEAR DRAIN GRATE, HAIR STRAINER, WATER PROOFING MEMBRANE.
SD-2	2	SCHLUTER DRAIN	2"	1½"	-	-	SCHLUTER KERDI-LINE LINEAR DRAIN CHANNEL MODEL: KL1V 60E 180, WITH LINEAR DRAIN GRATE, HAIR STRAINER, WATER PROOFING MEMBRANE.
SS-1	1	SERVICE SINK	3"	2"	½"	½"	FLORESTONE MODEL NO. MSR-2424, 24"X24"X10" DEEP SERVICE SINK OR EQUIVALENT, FLORESTONE MODEL NO. MR-371 FAUCET WITH VACUUM BARKER STOPS AND BUCKET HOOK, FLORESTONE MODEL NO.MR-378 8" X 5" HOSE WITH CLAMP, FLORESTONE MODEL NO.WR-373 S.S. 24" RIM GUARD 2 SIDES AND FLORESTONE MODEL NO. MR-375 FLAT CHROME STRAINER
DF-1	1	DRINKING FOUNTAIN	2"	1½"	½"	-	OASIS PBAC BARRIER-FREE VERSACOOLER II, ELECTRIC WATER COOLER DRINKING FOUNTAIN OR EQUIVALENT,120V,1-PHASE,460WATTS, 4.6AMPS, WALL MOUNTED (ADA).
DF-2	1	DRINKING FOUNTAIN	2"	1½"	½"	-	OASIS P8SBF BARRIER-FREE VERSACOOLER II, ELECTRIC WATER COOLER DRINKING FOUNTAIN OR EQUIVALENT,120V,1-PHASE,460WATTS, 4.6AMPS, WALL MOUNTED (ADA). PROVIDE COMPLETE W/VERSA FILLER SPORTS BOTTLE FILLER.
HB-1	2	HOSE BIBB	-	-	¾"	-	ZURN MODEL NO. Z1341XL EXPOSED, LEAD-FREE, ANTI SIPHON, MODERATE CLIMATE WALL HOSE BIBB OR EQUIVALENT
WD-1	1	WASHER DRYER	2"	1½"	½"	½"	-

NOTE: CONTRACTOR TO COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ALL PLUMBING FIXTURES SPECIFICATIONS AND MOUNTING HEIGHT INSTALLATION.



② PLUMBING WASTE AND VENT RISER
NTS

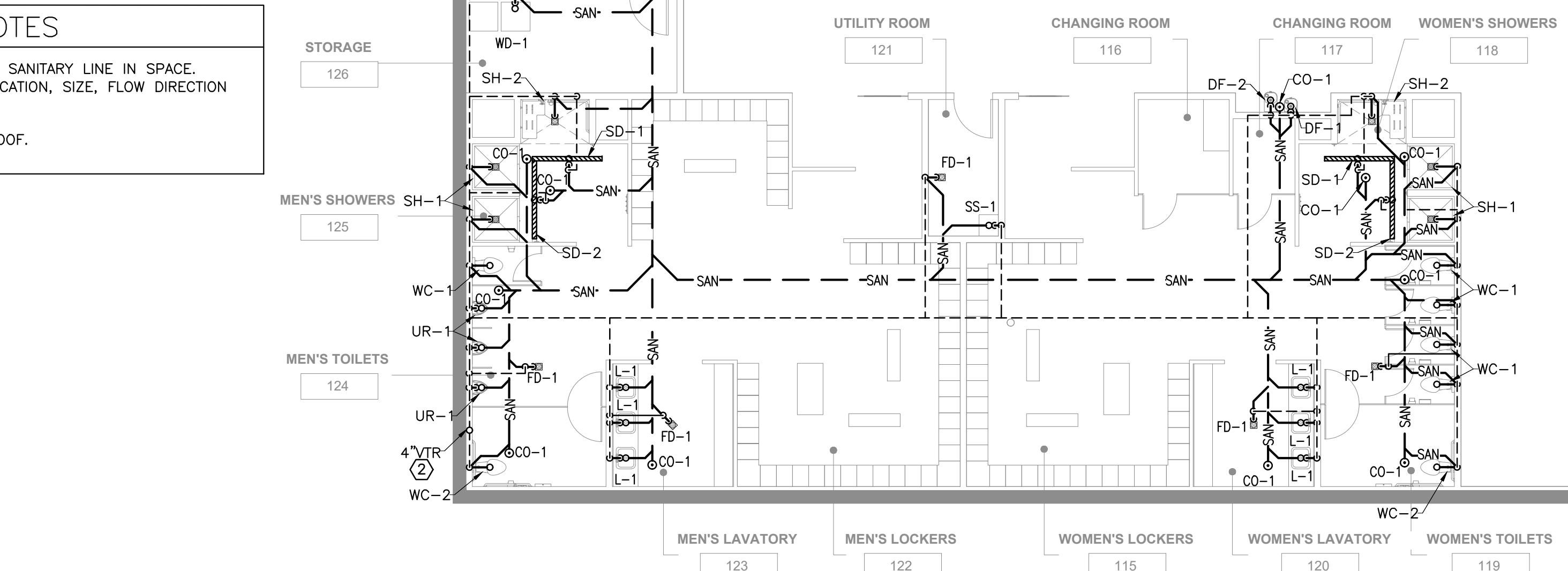


GENERAL NOTE

1. ARCHITECTURAL LAYOUT AND DIMENSIONS FOR FITNESS EQUIPMENT TO TAKE PRECEDENCE OVER MEP.
2. AS PER 2018 INTERNATIONAL PLUMBING CODE, SECTION 905.4 EVERY DRY VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN 6 INCHES ABOVE THE FLOOD LEVEL RIM OF THE HIGHEST TRAP OR TRAPPED FIXTURE BEING VENTED.

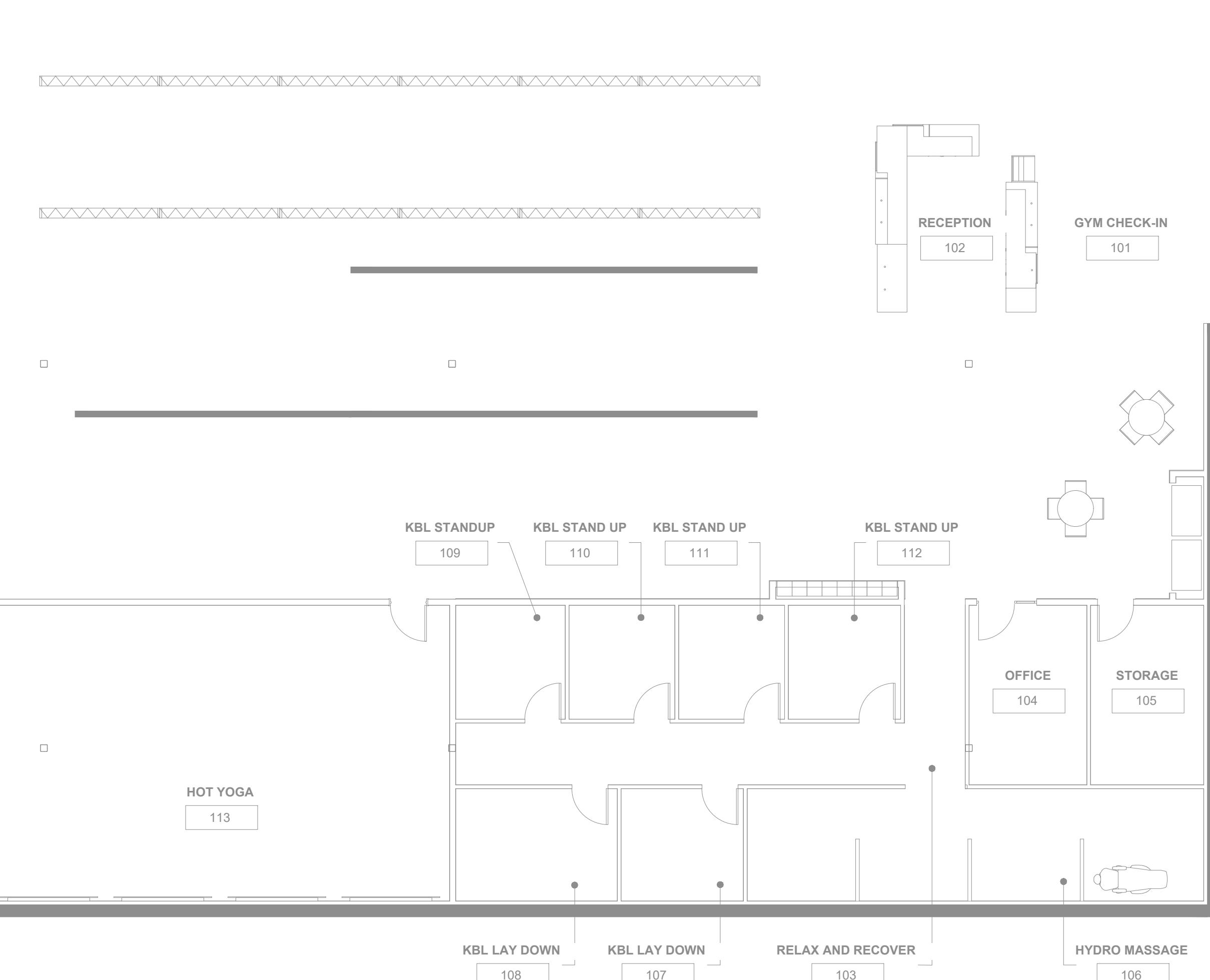
PLUMBING KEYED NOTES

- ① CONNECT NEW 4" SANITARY TO EXISTING SANITARY LINE IN SPACE. CONTRACTOR TO FIELD VERIFY EXACT LOCATION, SIZE, FLOW DIRECTION AND INVERT OF EXISTING SANITARY LINE.
- ② CONNECT NEW 4" VENT UP THROUGH ROOF.



① PLUMBING WASTE AND VENT PLAN

1/8" = 1'-0"

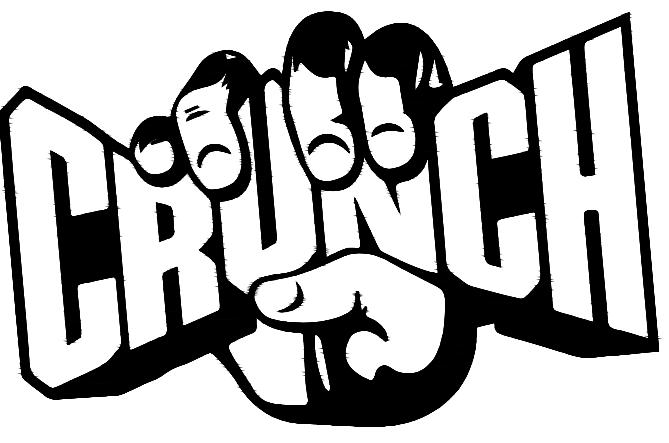


CRUNCH FITNESS
3634 BELL ROAD
NASHVILLE, TN 37214
APN: 09700013000

PLUMBING SANITARY PLAN AND RISER

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:	18' + 1'-0"	
DATE:	10/27/2023	
PROJECT NO:	22-45	

P100.1



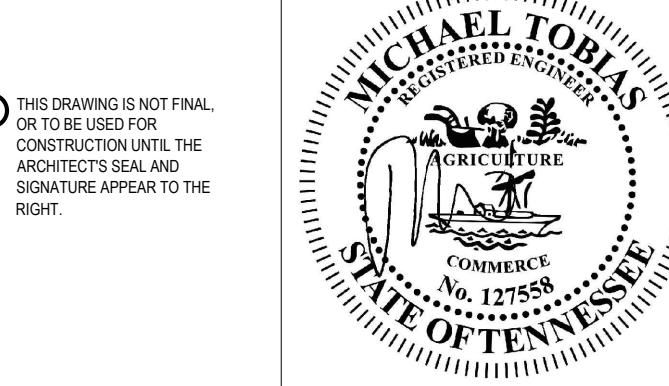
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SANITARY SEWER AND WATER SERVICE PLUMBING CALCULATION

Fixture Type	Quantity	D.F.U.	Total D.F.U.	W.S.F.U	Total W.S.F.U
WATER CLOSET (FLUSH VALVE)	5	6	30	10	60
URINALS	3	4	12	5	15
LAVATORY	6	1	6	2	12
HOSE BIB	2	—	—	1.5	3
FLOOR DRAIN	5	5	25	—	—
SHOWER	6	3	18	4	24
SERVICE SINK	1	2	2	3	3
SCHLUTER DRAIN	4	3	12	—	—
DRINKING FOUNTAIN	2	0.5	1	0.25	0.5
WASHER & DRYER	1	3	3	3	3
TOTAL FIXTURE UNITS:			109		120.5
W.S.F.U				120.5 FU = 74 GPM (BASED ON INTERNATIONAL PLUMBING CODE 2018, TABLE E 103.3(3) AND FIG E 103.3(3)).	
D.F.U				109 FU = 4" PIPING HORIZONTAL Ø ¾" PER FLOOR SLOPE (BASED ON 2018 INTERNATIONAL PLUMBING CODE, TABLE 710.1(1) BUILDING DRAINS AND SEWERS AND TABLE 710.1(2) HORIZONTAL FIXTURE BRANCHES AND STACKS.)	

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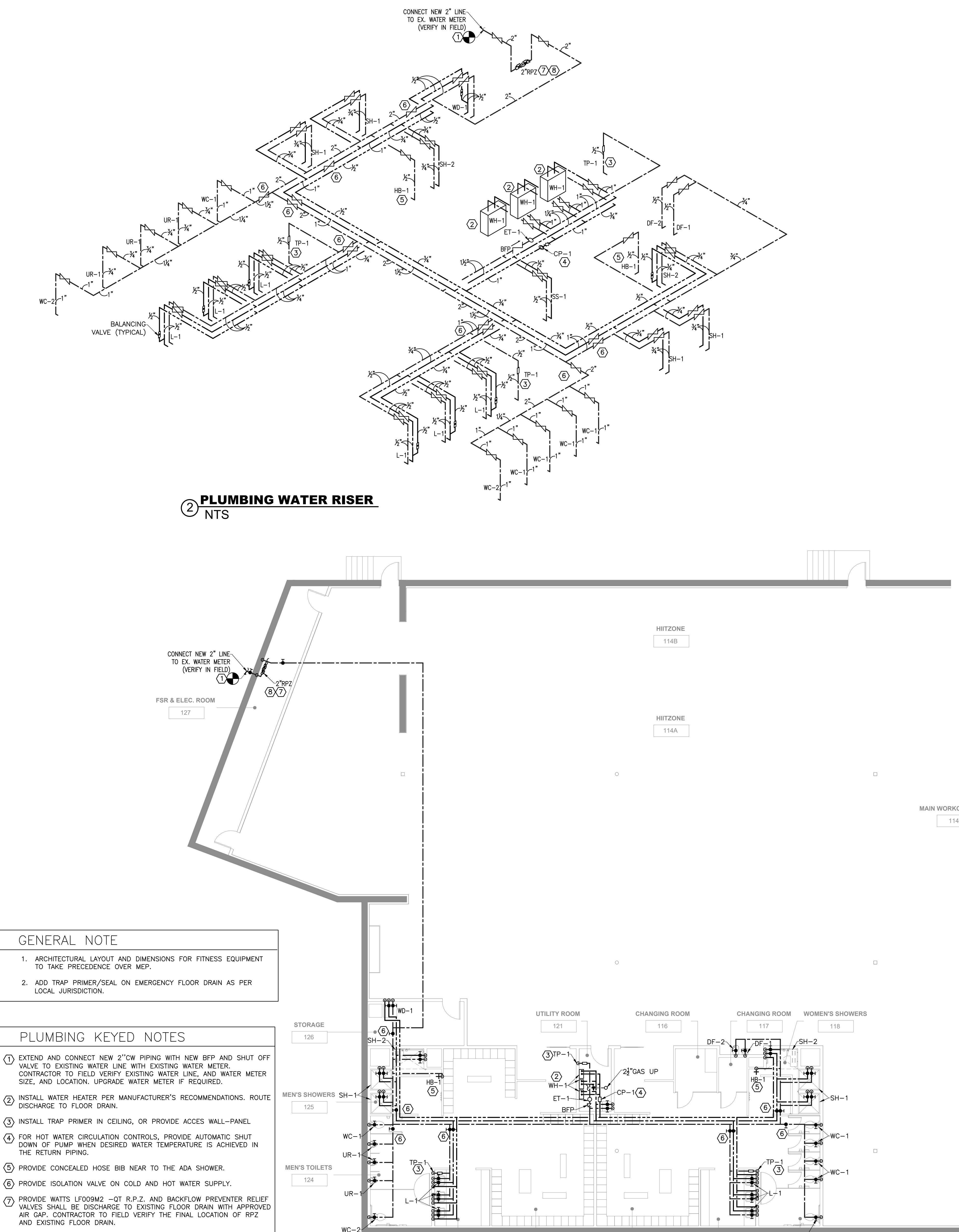
CRUNCH FITNESS
3634 BELL ROAD
NASHVILLE, TN 37214
CONSTRUCTION DRAWINGS
APN: 09700013000

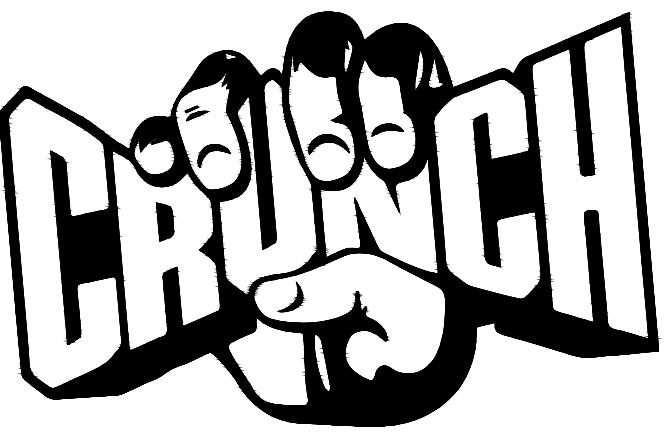
PLUMBING WATER PLAN AND RISER

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:	18" + 1'-0"	
DATE:	10/27/2023	
PROJECT NO:	22-45	

P100.2

PLUMBING WATER PLAN
1/8" = 1'-0"



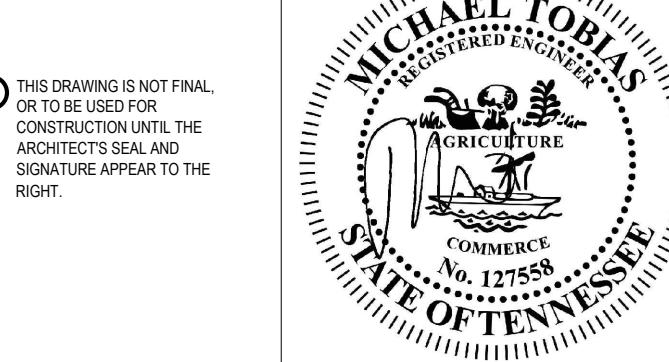


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NAT. GAS DESIGN	
LOW PRESSURE SYSTEM	
INLET PRESSURE < 2.0 PSI	
PRESSURE DROP - 0.5 IN W.C.	
SPECIFIC GRAVITY - 0.60	
LONGEST LENGTH-APPROX. 735'	

GAS LOAD SUMMARY	
EQUIPMENT TAG	CFH LOAD
WH-1(3)	597
RTU-1(E)	180
RTU-2(E)	180
RTU-3(E)	180
RTU-4(E)	180
RTU-5(E)	180
RTU-6(N)	110
RTU-7(N)	310
RTU-8(N)	310
RTU-9(N)	110
RTU-10(N)	110
TOTAL	2517

GAS PIPE SIZING BASED ON TABLE 402.4(2), 2018
INTERNATIONAL FUEL GAS CODE (IFGC 2018).

① THIS DRAWING IS NOT FINAL. FOR CONSTRUCTION USE THE ARCHITECT'S SEAL AND SIGNATURE APPEAR TO THE RIGHT.

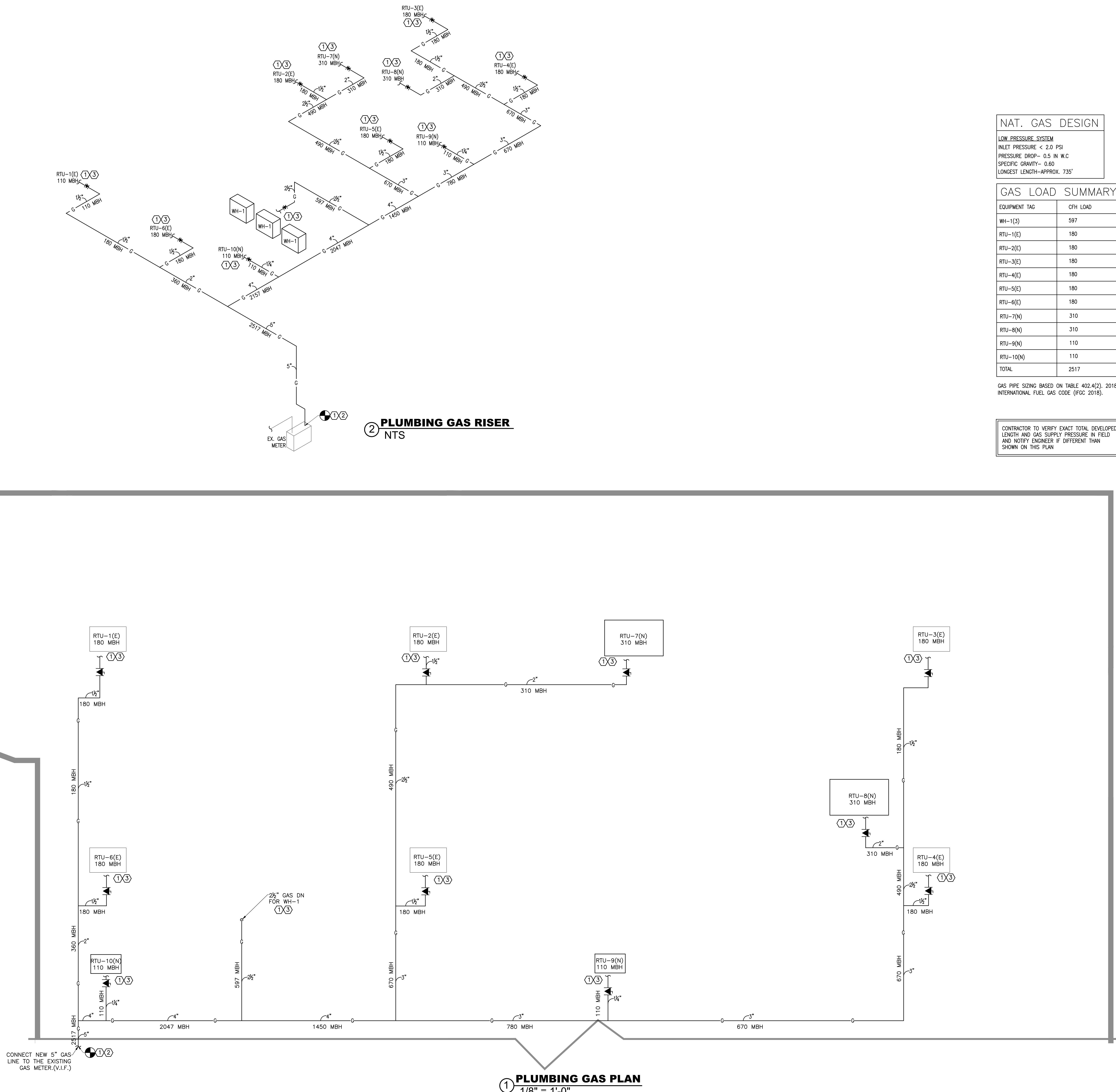
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Mechanical	MECHANICAL Nordy Engineers 382 NE 19th Street, Suite 49674 (216) 575-5300 Mark Javet mark@nordyengineers.com
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STRUCTURAL	STRUCTURAL R. Eugene Hunter, P.E. 1065 Heather Glen Dr. Matthews, NC 28104 (704) 574-8833 Jeff Jennings jennings@carolina.nr.com

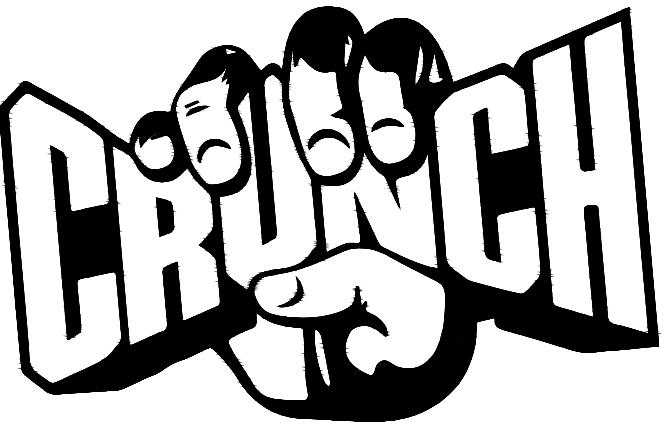
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NASHVILLE, TN 37214
CONSTRUCTION DRAWINGS
APN: 09700013000

PLUMBING GAS PLAN AND RISER

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:	18" = 1'-0"	
DATE:	10/27/2023	
PROJECT NO:	22-45	

P100.3





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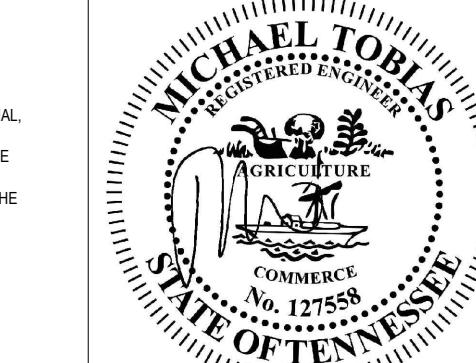
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CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR DIMENSIONS AND CONDITIONS ON THE JOB SITE, AND THIS OFFICE SHALL BE NOTIFIED OF ANY VARIATIONS OR CONDITIONS AS SHOWN ON THESE DRAWINGS.



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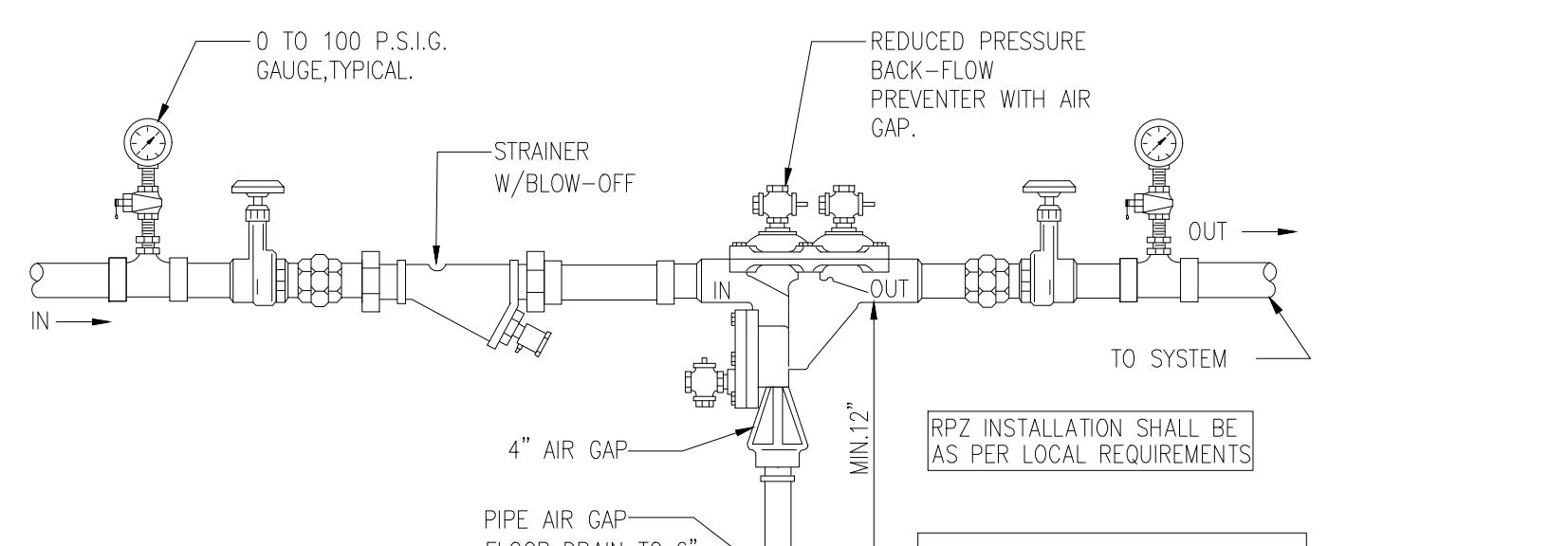
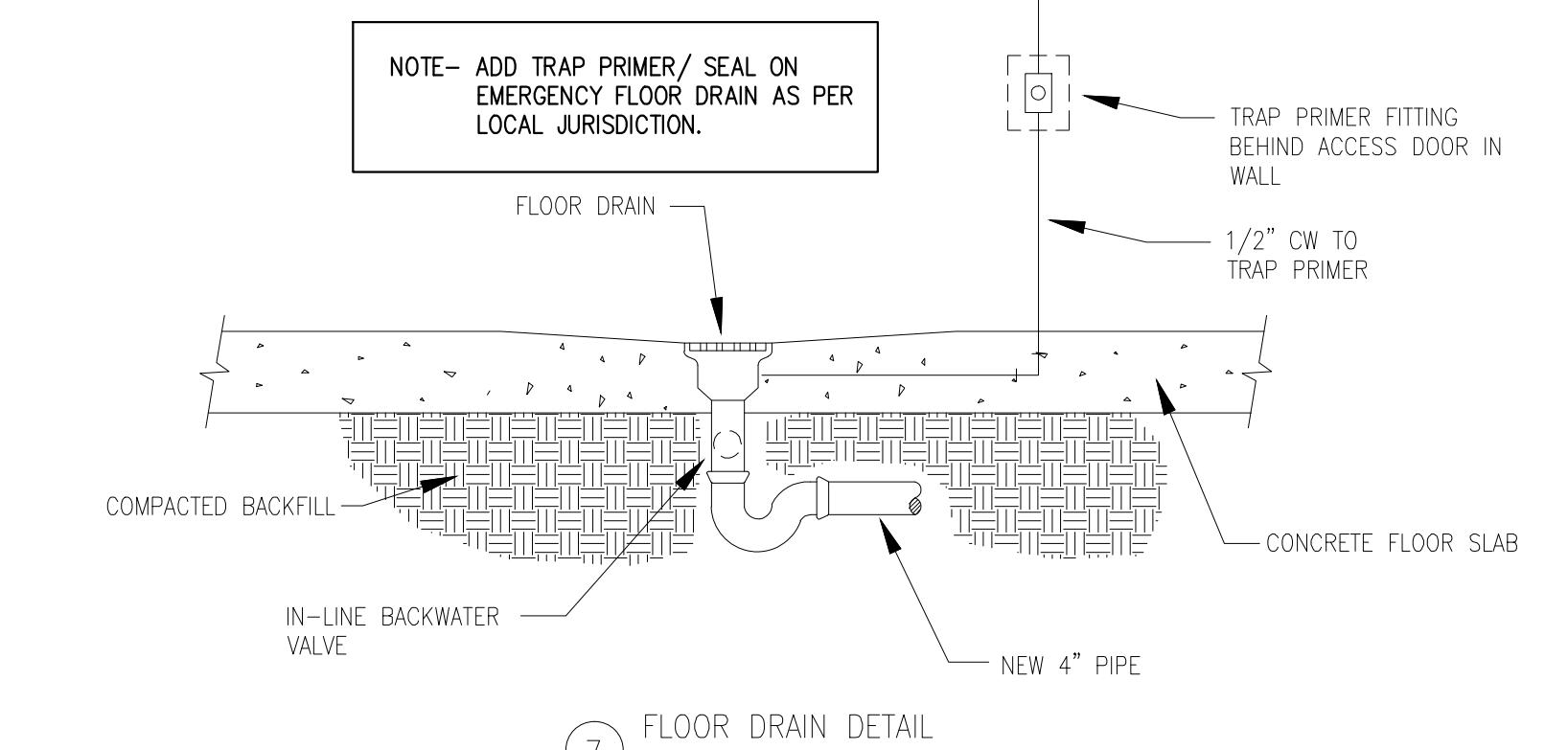
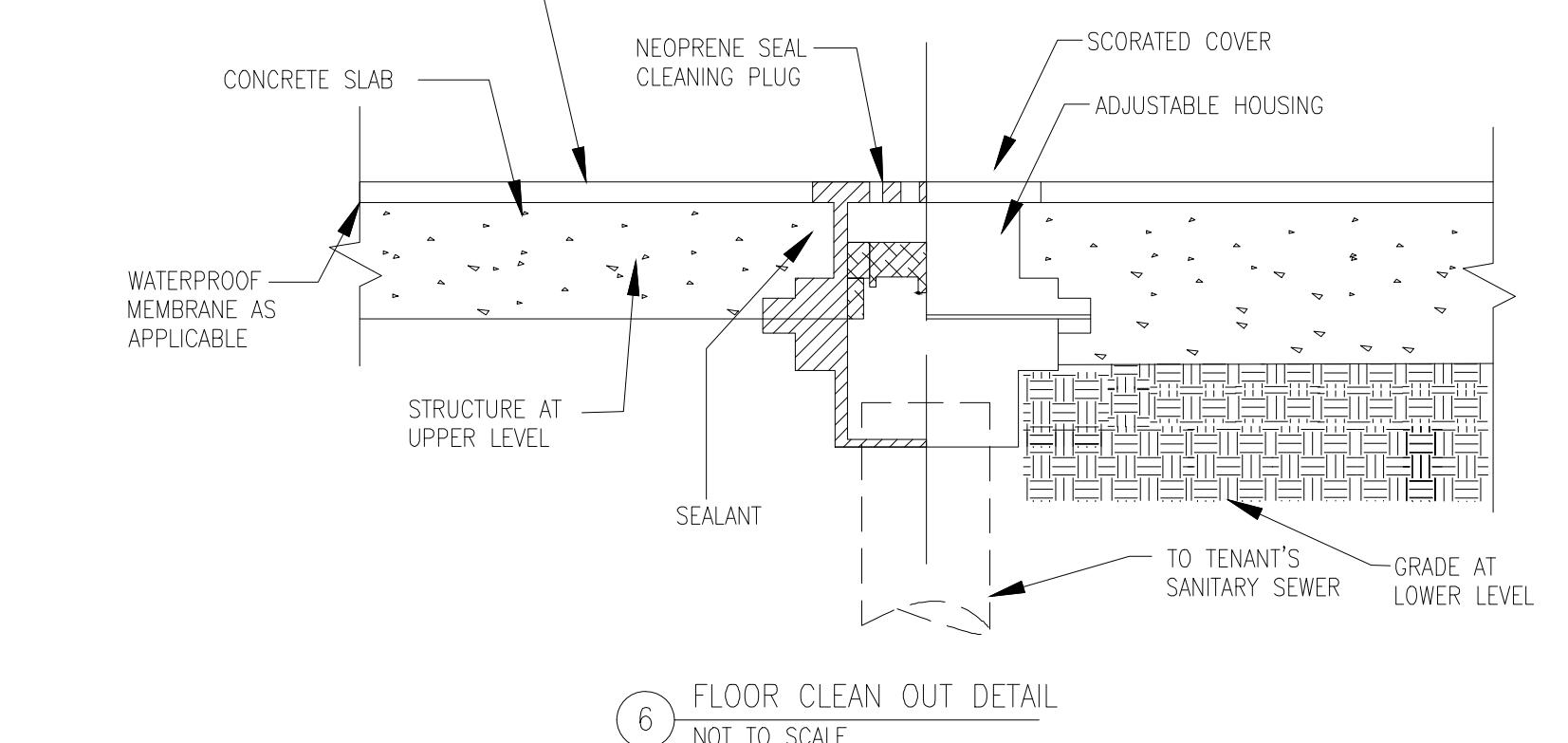
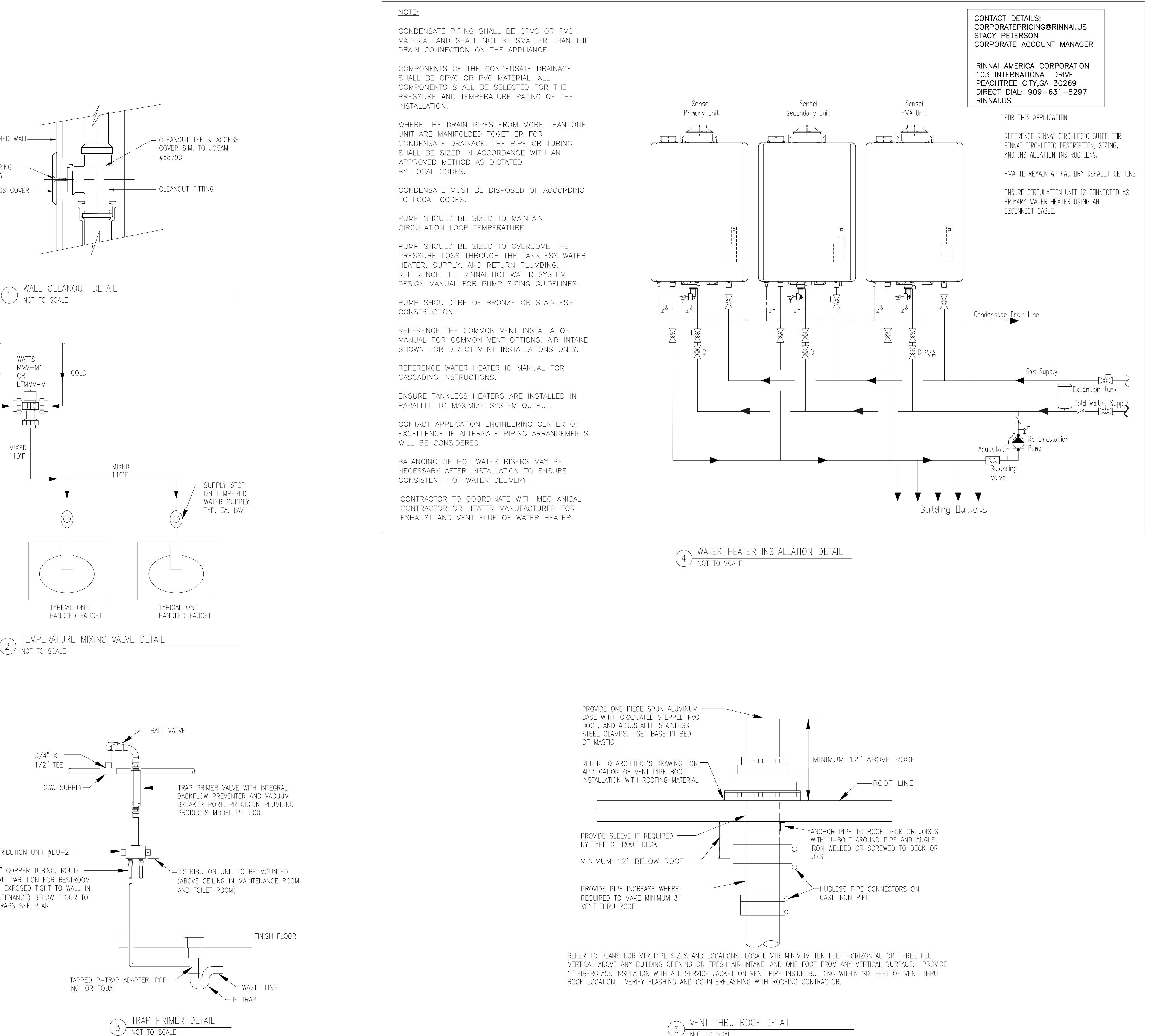
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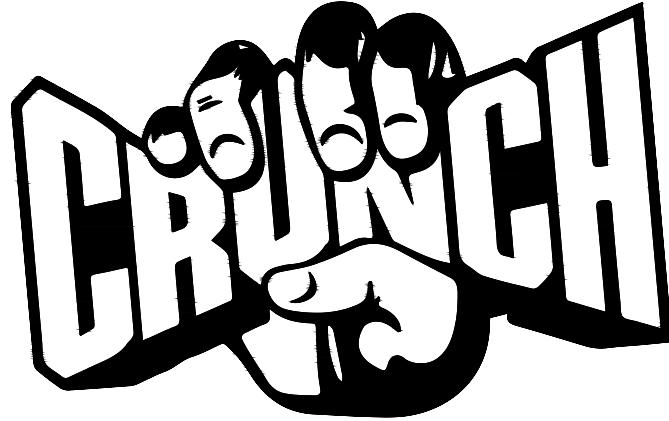
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NASHVILLE, TN 37214
CONSTRUCTION DRAWINGS
APN: 09700013000

PLUMBING DETAILS

NO.	DESCRIPTION	DATE
PROJECT MANAGER	Kris Johnson	
PROJECT ARCHITECT	Jeff Jennings	
SCALE:	N.T.S.	
DATE:	10/27/2023	
PROJECT NO:	22-45	

P500.1





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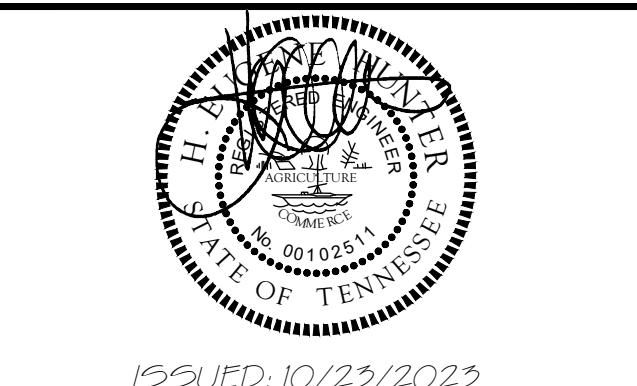
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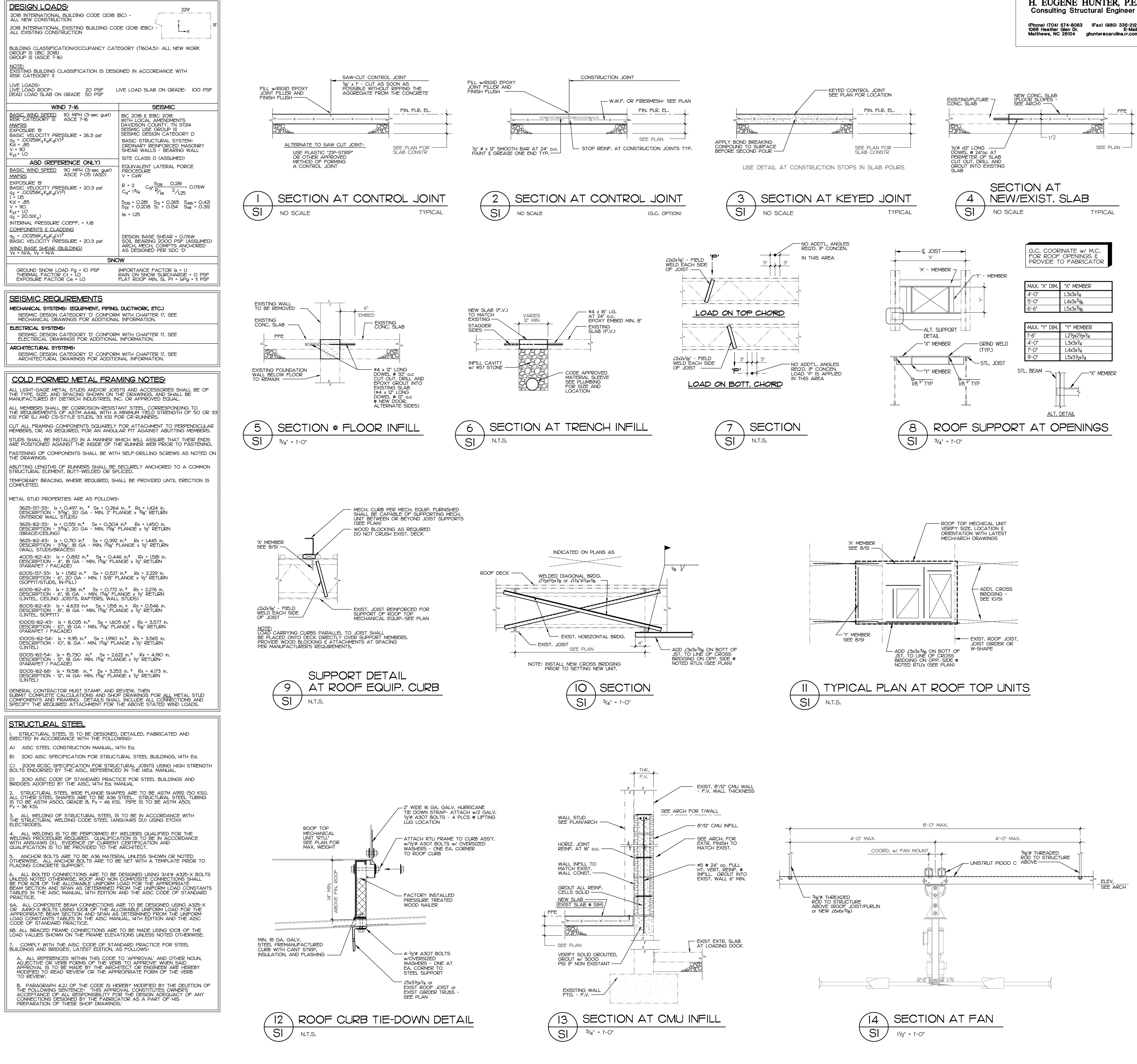
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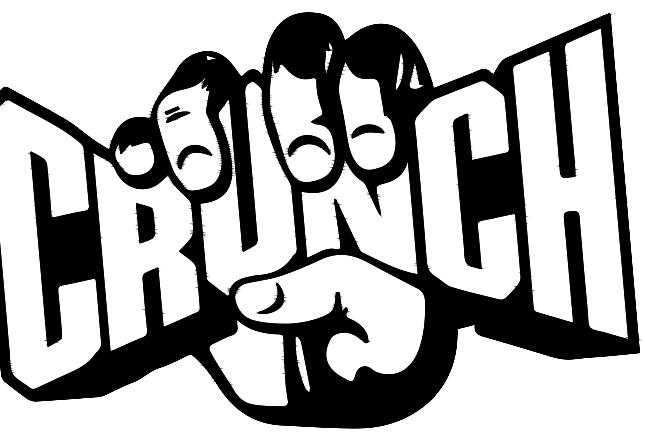
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	Gene Hunter
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GENERAL NOTES, SECTIONS AND DETAILS	
Mark	Description
Engineer	H. Hunter
Project Manager	S. LePage
Scale	As Noted
Date	10-23-2023
Project No.	4815
Sheet No.	S1

GENERAL CONDITIONS	
1. STRUCTURAL DRAWINGS ARE TO BE USED IN CAREFUL COORDINATION WITH ALL OTHER CONTRACT DOCUMENTS DURING ALL PHASES OF CONSTRUCTION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PREPARATION, REVIEW, APPROVAL, AND SUBMISSION OF ALL PROPOSALS, PREPARATION OF SHOP DRAWINGS AND CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR IS TO PROVIDE A COMPLETE SET OF CONTRACT DOCUMENTS TO SUBCONTRACTORS TO BE USED DURING ALL PHASES OF THE PROJECT.	
2. SHOP DRAWINGS ARE TO BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO SUBMITTING TO THE FABRICATOR. ALL SHOP DRAWINGS ARE TO BE IN PDF FORMAT. SHOP DRAWINGS ARE TO BE REVIEWED, CORRECTED, STAMPED, & APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE FABRICATOR. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL INFORMATION REQUESTED TO BE CLEARLY MARKED ON THE DRAWINGS. ALL DIMENSIONS AND INFORMATION REQUESTED ARE TO INDICATE CLEARLY THAT THE DRAWINGS HAVE BEEN REVIEWED, CORRECTED AND APPROVED BY THE GENERAL CONTRACTOR. DRAWINGS FAILING TO MEET THESE REQUIREMENTS ARE NOT CONSIDERED FOR APPROVAL OR SUBMISSION BY H. EUGENE HUNTER, P.E. ALLOW 10 WORKING DAYS FOR REVIEW IN SCHEDULE.	
3. ALL DETAILS AND SECTIONS ARE CONSIDERED TYPICAL AND ARE TO BE USED AS REFERENCE UNLESS OTHERWISE SPECIFIED. FOR EACH PHASE OF THE WORK, ALL DETAILS OF CONSTRUCTION ARE TO BE REVIEWED PRIOR TO FABRICATING AND PLACING MATERIALS. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING STRUCTURAL DRAWINGS WITH ALL PHASES OF CONSTRUCTION.	
4. NO DETAILS, PLANS, DETAILS AND SECTIONS IF THERE IS ANY QUESTION ABOUT DETAILS OR DIMENSIONS CONTAIN IN THE ARCHITECT FOR INFORMATION REQUESTED ARE TO BE SUBMITTED BY THE GENERAL CONTRACTOR.	
5. DESIGN, DETAILING, AND IMPLEMENTATION OF ALL SHORING AND BRACING REQUIRED FOR THE PROJECT DURING CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.	
6. GENERAL CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS AND DETAILS OF THE EXISTING STRUCTURE. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY DISCREPANCIES BETWEEN ACTUAL EXISTING CONDITIONS AND DRAWINGS. DRAWINGS ARE TO BE SUBMITTED BY THE GENERAL CONTRACTOR IF NECESSARY MODIFICATIONS CAN BE MADE TO THE DRAWINGS.	
7. DRAWINGS SHALL BE ORIGINAL DRAWINGS PREPARED BY THE CONTRACTOR, SUBCONTRACTOR, SUPPLIER OR DISTRIBUTOR. REPRODUCTION OF DRAWINGS IS NOT ALLOWED. DRAWINGS SHALL NOT BE USED WITHOUT WRITTEN PERMISSION FROM H. EUGENE HUNTER, P.E.	
8. SHOP DRAWINGS SHALL BE PREPARED USING THE STRUCTURAL DRAWINGS, ANY CHANGES, MODIFICATIONS OR REVISIONS FROM THE STRUCTURAL DRAWINGS SHALL BE APPROVED AND APPROVED PRIOR TO SUBMITTING SHOP DRAWINGS FOR APPROVAL.	
9. IT IS ASSUMED THAT THE SELECTED G.C. AND HIS SUB-COMPONENTS ARE EXPERIENCED AND QUALIFIED FOR THE TYPE OF CONSTRUCTION SHOWN. THE G.C. IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS TO ALLOW COMPLETION OF THEIR WORK. ANY AND ALL QUESTIONS AND CLARIFICATIONS SHALL BE SUBMITTED IN WRITING BY EMAIL TO THE ARCHITECT. DRAWINGS BY THE G.C. ALLOW A MINIMUM OF THREE DAYS FOR WRITTEN RESPONSES.	
PROJECT TERMS AND DEFINITIONS	
PROJECT TERMS & DEFINITIONS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:	
AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, JUNE 15, 2016.	
DEFINITIONS SHALL BE AS FOLLOWS:	
ENGINEER - THE OWNER'S DESIGNED REPRESENTATIVE WITH FULL RESPONSIBILITY FOR THE DESIGN AND INTEGRITY OF THE STRUCTURE.	
CONTRACT DOCUMENTS - THE DOCUMENTS WHICH DEFINE THE RESPONSIBILITIES OF THE INVOLVED PARTIES DURING THE DESIGN AND CONSTRUCTION OF THE STRUCTURE. THESE DOCUMENTS CONSIST OF A CONTRACT, PLANS AND SPECIFICATIONS.	
DRAWINGS - SHOP AND FIELD ERECTION DRAWINGS PREPARED BY THE FABRICATOR AND ERECTOR FOR THE PERFORMANCE OF THE WORK.	
FABRICATOR - THE PARTY RESPONSIBLE FOR FURNISHING FABRICATED STRUCTURAL STEEL.	
OWNER - THE OWNER OF THE PROPOSED STRUCTURE OR HIS DESIGNED REPRESENTATIVE WHO MAY BE THE ENGINEER, GENERAL CONTRACTOR, PUBLIC AUTHORITY OR OTHER PERSON.	
PLANS - DESIGN DRAWINGS FURNISHED BY THE PARTY RESPONSIBLE FOR THE DESIGN OF THE STRUCTURE.	
THE GENERAL CONTRACTOR SHALL FURNISH THE STRUCTURAL ENGINEER WITH A CERTIFIED SET OF FIELD USE DRAWINGS FOR ALL FABRICATED ITEMS. NOTE ALL CHANGES AND REVISED ITEMS THAT DO NOT AGREE WITH THE ORIGINAL CONTRACT DOCUMENTS.	
FOUNDATION & SLAB ON GRADE	
1. CONCRETE SLAB ON GRADE IS TO BE PLACED ON ENGINEERED, COMPACTED FILL. COMPACTION IS TO BE IN ACCORDANCE WITH A MINIMUM OF 95% OF MAXIMUM DENSITY. SOIL DRY DENSITY AND UP TO +/- 2% PERCENT OF OPTIMUM DRY DENSITY.	
2. A SUBSURFACE INVESTIGATION HAS NOT BEEN PERFORMED FOR THE PROPOSED CONSTRUCTION. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. THE GENERAL CONTRACTOR IS TO PROVIDE AND COORDINATE ADEQUATE SOIL TESTING, PERFORMED BY A SOIL TESTER, TO DETERMINE THE ALLOWABLE SOIL BEARING PRESSURE. THE PRESSURE TO BE PAID FOR BY OWNER, MODIFICATIONS TO THE SUBSURFACE INVESTIGATION AND THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.	
3. FOOTING LOCATIONS/DEPTHS HAVE BEEN DEVELOPED USING AVAILABLE SITE INFORMATION. CONTRACTOR IS TO VERIFY ALL ELEVATIONS/DEPTHES TO MAINTAIN A MINIMUM 12" OF COVER OVER TOP OF FOOTING OR 18" BELOW GRADE. ALL INTERIOR FOOTINGS ARE TO BE A MINIMUM OF 12" BELOW BOUNDARY ELEV.	
4. POLY FIBER SLAB REINFORCEMENT MAY BE USED AS AN ALTERNATE.	
CONCRETE & REINFORCING	
L. CONCRETE FOR THE PROJECT IS TO BE:	
28-DAY COMPRESSIVE	
STRENGTH DENSITY AIR ENTRAINMENT USAGE	
4000 PSI 150 PCF FOOTINGS	
4000 PSI 150 PCF SLAB ON GRADE (INTERIOR)	
4000 PSI 150 PCF 5 TO 7% SLAB ON GRADE (EXTERIOR)	
2. CONCRETE SLAB ON GRADE IS TO BE REINFORCED WITH 6x6-WLAWL4 WELDED L-STEEL SHAPE. THE REINFORCING IS TO BE PLACED AT THE MIDPOINT OF THE SLAB THICKNESS. SO THAT THE REINFORCING IS AT THE MIDPOINT OF THE SLAB THICKNESS.	
3. REINFORCING STEEL IS TO BE ASTM A56, GRADE 60, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 318. PROVIDE AN ACI TYPE 'A' TENSION STEEL FOR ALL REINFORCING UNLESS SHOWN OR NOTED OTHERWISE ON THE DRAWINGS.	
ALL REINFORCING STEEL LAPS SHALL BE A MINIMUM OF 36 BAR DIAM. UNLESS NOTED OTHERWISE. 24" MAX. USE CORNER BARS IN ALL CORNERS OF EACH REINFORCING SLAB. THE CORNER BARS SHALL BE THE SAME SIZE AND SPACING AS LONGITUDINAL BARS.	
4. CONCRETE COVERAGE OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE UNLESS NOTED OTHERWISE:	
A. FOOTINGS AND GRADE BEAMS 3 INCHES	
B. BEAMS AND COLUMNS 1/2 INCHES	
C. GIRDERS 3/4 INCHES	
D. SLABS ON GRADE 2 INCHES	
5. GROUT	
GROUT UNDER COLUMN BASE PLATES AND BEAM BEARING PLATES IS TO BE PLACED UNIFORMLY UNDER BEARING PLATES TO THE REQUIRED BEARING ELEVATION.	
NOTE: FLYASH NOT PERMITTED IN CONCRETE	
SCHEDULE OF SPECIAL INSPECTION SERVICES	
■ Special Inspections required for this project	
■ IT-1 Verification of Soils	■ IT-11 Structural Masonry
■ IT-2 Excavation and Fill	■ IT-12 Welding
■ IT-3 Piling or Drilling Piers	■ IT-13 High Strength Bolts & Steel
□ IT-4 Modular Retaining Walls	■ Framing Inspections
■ IT-5 Reinforced Concrete	■ IT-14 Sprayed Fire Resistance Materials
□ IT-6 Post Tension Slab	■ IT-15 Exterior Insulation and Finish System
■ IT-7 Pre-cast Concrete Erection	■ IT-16 Seismic Resistance
■ IT-8 Pre-stressed Concrete	■ IT-17 Smoke Control
□ IT-9 Inspection of Pre-Cast Fabricators	■ IT-18 Detention Basin
■ IT-10 Inspection of Structural Steel Fabricators	■ IT-19 Special Cases





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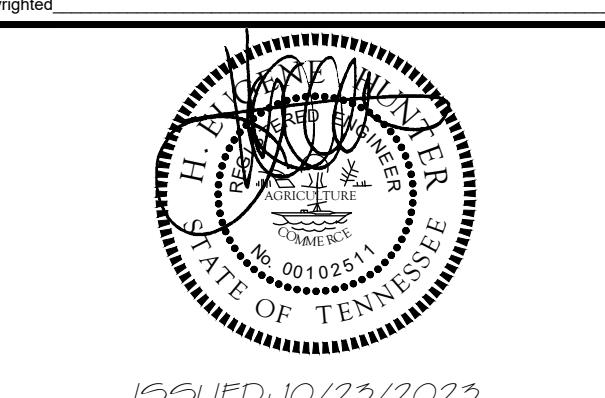
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ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING SHEET NOTES

BOTTOM OF DECK ELEVATION (BOD) IS MEASURED RELATIVE TO FINISHED FLOOR ELEVATION 0.00 AND NOTED AS + C'-0". AFF

ROOF DECK (FOR REPAIRS OR REPLACEMENT) SHALL CONFORM TO THE FOLLOWING:
A) MATCH EXISTING or 1/8" METAL ROOF DECK, 22 GAGE, 36" PANEL WIDTH w/ A MINIMUM 3 SPAN CONDITION.

B) PROVIDE MINIMUM SECTION PROP AS NOTED: 22 GA Sp • 16ga Sp • .392in 1 • .369in 1 • +.005in Fy • 50 kN

C) LAP ALL END SECTIONS 3" (TYP)

D) PROVIDE SIDE LAP SCREWS • 24" O.C. MAX BETWEEN SUPPORTS, USE #10 1/4" HEX HEAD SCREWS

WELD ROOF DECK TO STRUCTURAL SUPPORTS • 6 1/2" o.c. U.N.O. USE #10 1/4" HEX HEAD SCREWS & 1/4" OUT WELD DECK AT ALL PERIMETERS PERPENDICULAR TO JOIST/BEAM SPAN AS NOTED USING 1/8" PULDED WELDS.

G) OPTION - USE MECHANICAL FASTENERS EQUAL VALUE SUBMIT ALL INFORMATION AS E.O.R.

COORDINATE ALL MECHANICAL UNITS AND THEIR LOCATIONS WITH MECHANICAL CONTRACTOR, ARCHITECT/ENGINEER SHALL BE NOTIFIED OF CHANGES IN LOCATION OF UNITS AND COORDINATE ALL ROOF OPENINGS

► RELEASE EXISTING ROOF OPENINGS IF POSSIBLE, IF NOT FRAME OPENINGS AS NOTED USING 1/8" PULDED WELDS.

STEEL CONTRACTOR TO COORDINATE EXACT LOCATION & SIZE OF ROOF OPENINGS WITH G.C. & MECH. CONTRACTOR. ROOF TOP UNIT LOCATIONS SHALL BE SHOWN ON STEEL SHEAD DRAWINGS.

COORDINATE ALL DIMENSIONS WITH ARCH. DRAWINGS, SEE DETAILS FOR TRENCH, PILING & ROOF OPENINGS.

AP - INDICATES ABOVE PLATE FLOOR ELEVATION

BOD - INDICATES BOTTOM OF DECK ELEVATION

FOD - INDICATES FACE OF BUILDING

JBE - INDICATES JOIST BEARING ELEVATION

TSEL - INDICATES TOP OF STEEL ELEVATION

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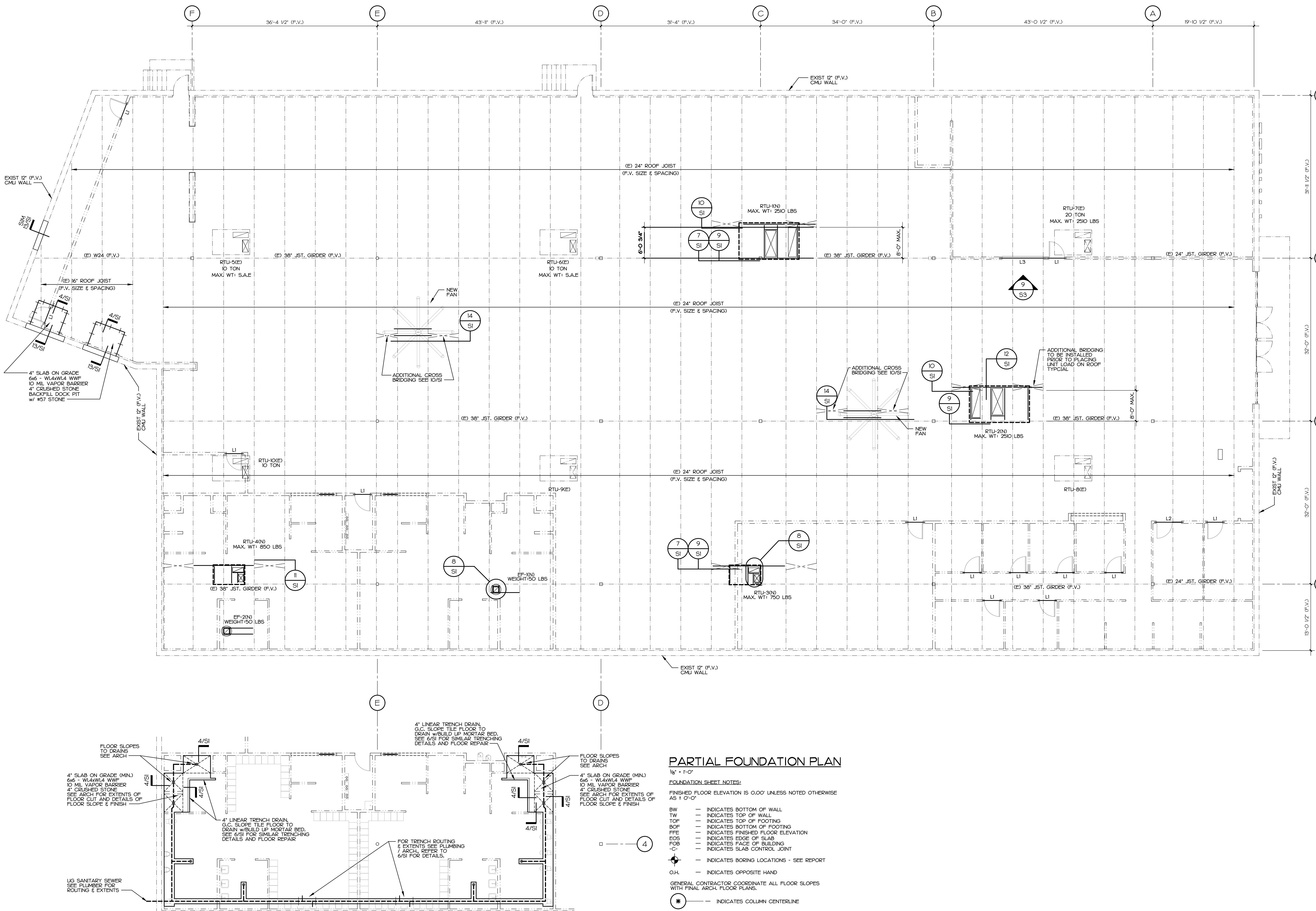
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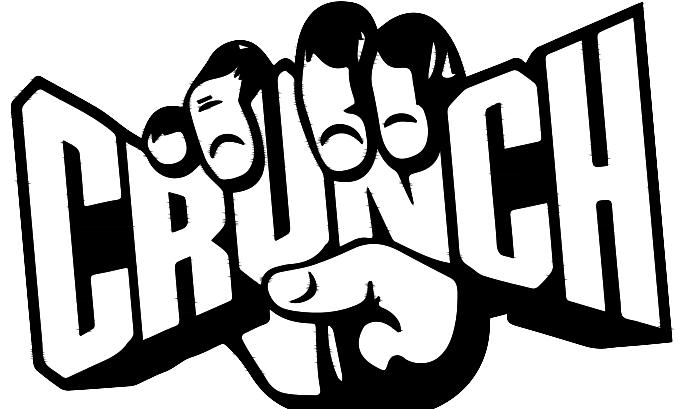
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NASHVILLE, TN 37214
CONSTRUCTION DRAWINGS
APN: 09700013000

SHEET TITLE
**PARTIAL FOUNDATION &
ROOF FRAMING PLAN**

Mark	Description	Date
Engineer	H. Hunter	Sheet No.
Project Manager	S. LePage	
Scale	As Noted	
Date	10-23-2023	
Project No.	4815	

S2





H. EUGENE HUNTER, P.E.
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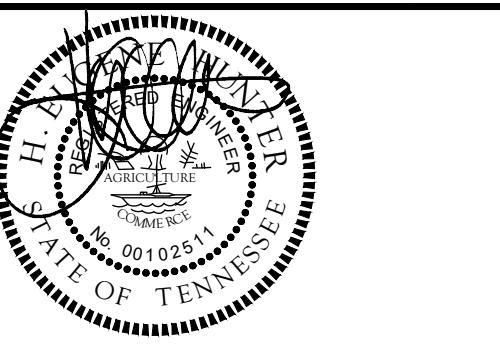
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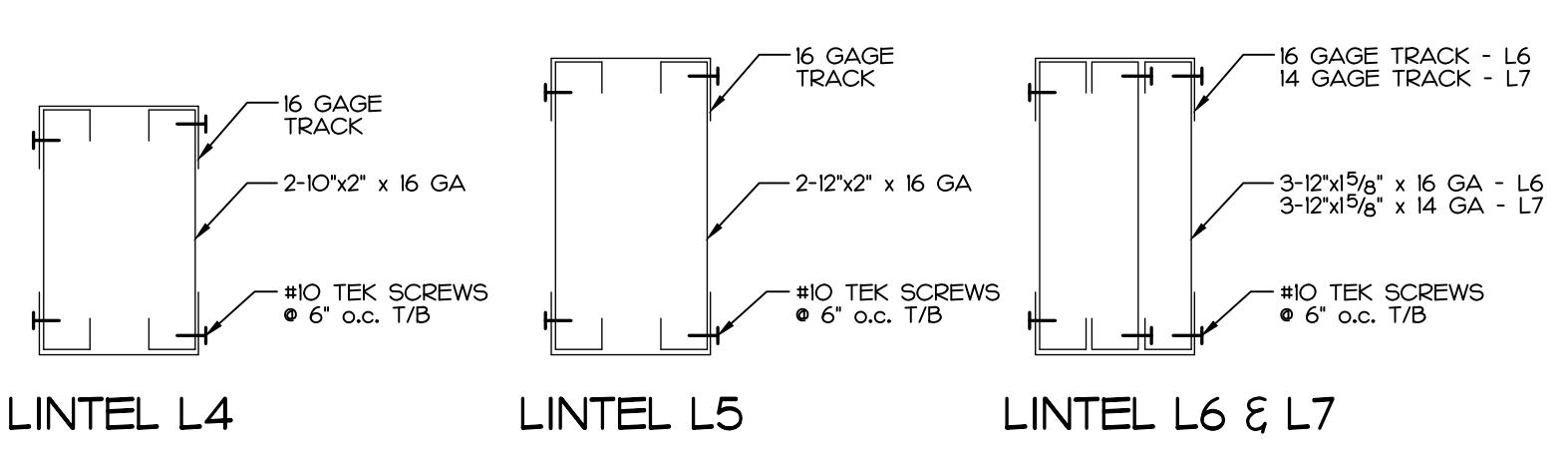
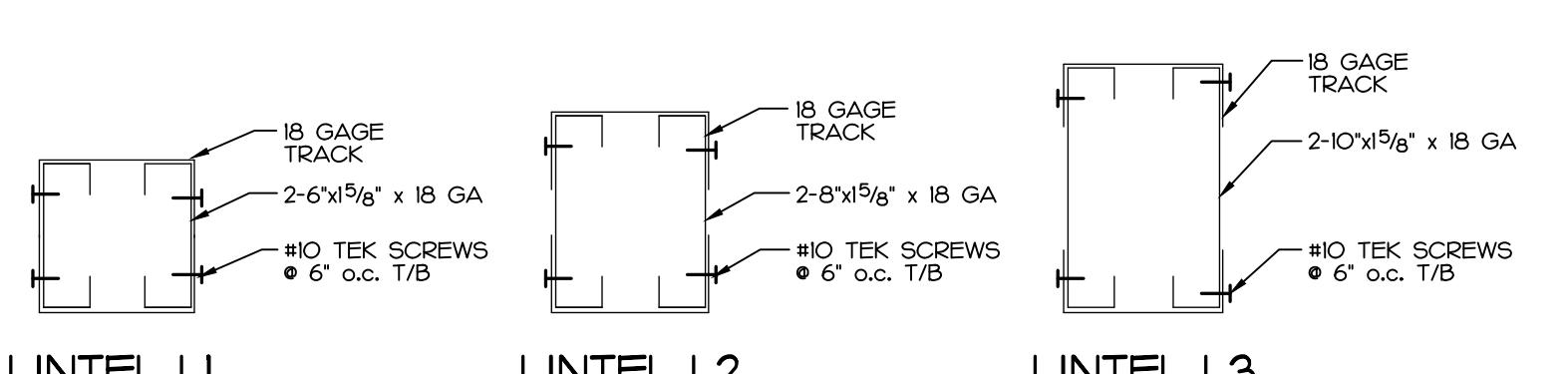
PROJECT TEAM	
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MECHANICAL	
PLUMBING	
ELECTRICAL	
Nearby Engineers	
FRANCHISEE	Fitness First LLC 11310 Montgomery Road, Suite 216 Cincinnati, OH 45249 (859) 992-3859 Ankit Javeri anj@engines.com Frank Lauch frlauch@autempinc.com
STRUCTURAL	H. Eugene Hunter, P.E. 1066 Heather Glen Dr. Matthews, NC 28104 (704) 574-5083 Gene Hunter hunter@carolina.rr.com

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CONSTRUCTION DRAWINGS
APN: 09700013000

LINTEL SCHEDULE						
MARK	MAX. SPAN	WALL CONSTR.	LINTEL TYPE & DESCRIPTION	REMARKS	JACK STUDS	KING STUDS
L1	4'-0"	3 5/8" x 4 1/8" METAL STUD	2-6" x 18 GAGE INTERIOR/EXTERIOR WALLS	SEE 4/S3	2 JACK STUDS EACH SIDE	2 KING STUDS EACH SIDE
L2	6'-8"	3 5/8" x 4 1/8" METAL STUD	2-6" x 18 GAGE EXTERIOR WALLS	SEE 4/S3	2 JACK STUDS EACH SIDE	2 KING STUDS EACH SIDE
L3	10'-0"	3 5/8" x 4 1/8" METAL STUD	2-6" x 18 GAGE INTERIOR WALLS	SEE 4/S3	2 JACK STUDS EACH SIDE	2 KING STUDS EACH SIDE
L4	16'-0"	6" METAL STUD	2-10" x 16 GAGE x 2" INTERIOR WALLS	SEE 4/S3	3 JACK STUDS EACH SIDE	3 KING STUDS EACH SIDE
L5	18'-0"	6" METAL STUD	2-12" x 16 GAGE x 2" INTERIOR WALLS	SEE 4/S3	3 JACK STUDS EACH SIDE	3 KING STUDS EACH SIDE
L6	20'-0"	6" METAL STUD	3-12" x 16 GAGE INTERIOR WALLS	SEE 4/S3	3 JACK STUDS EACH SIDE	4 KING STUDS EACH SIDE
L7	24'-0"	6" METAL STUD	3-12" x 14 GAGE INTERIOR WALLS	SEE 4/S3	3 JACK STUDS EACH SIDE	5 KING STUDS EACH SIDE

NOTE: PROVIDE LINTELS AT ALL WALL OPENINGS REQUIRED FOR MECHANICAL, HVAC OR PLUMBING PENETRATIONS. USE THE ABOVE SCHEDULE AS A GUIDE FOR LINTEL SELECTION FOR LINTELS NOT SHOWN.

PROVIDE LT LINTELS FOR ALL DUCT WORK THAT PASSES THRU INTERIOR LOADBEARING WALLS.



SHEET TITLE		
SECTIONS AND DETAILS		
Mark	Description	Date
Engineer	H. Hunter	Sheet No.
Project Manager	S. LePage	
Scale	As Noted	
Date	10-23-2023	
Project No.	4815	

S3

