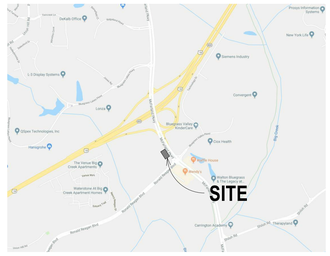

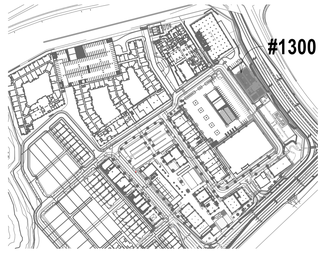

GENERAL NOTES

1. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED IN WRITING OF ANY VARIATIONS FROM THE DIMENSIONS OR CONDITIONS SHOWN BY THESE DRAWINGS.

2. ANY AND ALL REVISIONS FROM THESE PLANS MUST BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. ONCE CONSTRUCTION HAS COMMENCED, ANY REVISIONS IN THE FIELD MUST BE APPROVED BY THE DEVELOPER'S CONSTRUCTION REPRESENTATIVE AND THE ARCHITECT.

3. GENERAL CONTRACTOR TO PROVIDE ALL REGULATORY AGENCY REQUIRED SIGNAGE NECESSARY FOR CERTIFICATE OF OCCUPANCY.

4. GENERAL CONTRACTOR SHALL VERIFY ALL ON-SITE CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS PRIOR TO CONSTRUCTION.

5. NO STRUCTURE OF ANY KIND IS TO BE CONSTRUCTED ON, OR PLACED WITHIN PUBLIC UTILITY EASEMENTS EXCEPT WOOD, WIRE OR REMOVABLE SECTION TYPE FENCING REQUIRED PAVING FOR ACCESS GROUND COVER INCLUDING GRASS. GENERAL CONTRACTOR SHALL BE REQUIRED TO REPLACE ANY OBSTRUCTIONS OR PLANTING THAT MUST BE REMOVED DURING THE COURSE OF MAINTENANCE, CONSTRUCTION OR RECONSTRUCTION OF THE PUBLIC UTILITIES.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, COORDINATING AND SCHEDULING OF ALL INSPECTIONS AND TESTS INDICATED ON THE PLANS AND SPECIFICATIONS RECOMMENDED BY THE SOILS REPORT AND/OR REQUIRED BY ANY GOVERNMENTAL AGENCY.

7. THE JOB SUPERINTENDENT SHALL MAINTAIN ON SITE AT TRAILER A LIST OF SPECIAL INSPECTORS CONDUCTING INSPECTIONS ON PROJECT. THE LIST SHALL INDICATE THE NAME OF INSPECTOR, DATES, AND TIMES PRESENT ON JOB SITE AND TYPES OF INSPECTIONS BEING CONDUCTED.

8. UPON THE COMPLETION OF CONSTRUCTION, THE GENERAL CONTRACTOR SHALL DELIVER TO THE DEVELOPER ALL AVAILABLE MATERIALS, INCLUDING, BUT NOT LIMITED TO MANUFACTURER'S RECOMMENDATIONS SO AS TO FACILITATE THE DEVELOPMENT OF A BUILDING OPERATION AND MAINTENANCE PLAN.

9. SHOP DRAWINGS MUST BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO PROCEEDING WITH FABRICATION ON ITEMS REGARDING SUCH.

10. GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY FIRE EXTINGUISHERS DURING CONSTRUCTION AND PERMANENT FIRE EXTINGUISHERS AS REQUIRED BY SPECIFICATIONS AND CODE.

11. THE GENERAL CONTRACTOR SHALL COMPLY WITH AND GIVE NOTICES REQUIRED BY LAWS, ORDINANCES, RULES REGULATIONS AND LAWFUL ORDERS OF THE PUBLIC AUTHORITIES BEARING ON THE PERFORMANCE OF THE WORK.

12. THE GENERAL CONTRACTOR SHALL SECURE AND PAY FOR THE BUILDING PERMIT AND OTHER GOVERNMENTAL FEES, LICENSES AND INSPECTIONS NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK.

13. THE CONSTRUCTION SCHEDULE SHALL BE RELATED TO THE ENTIRE PROJECT AND BE CONDUCTED IN STRICT ACCORDANCE WITH THE SEQUENCE OF OPERATIONS AS APPROVED BY THE OWNER.

14. THE USE OF THE SITE SHALL BE CONFINED TO THOSE AREAS APPROVED BY THE OWNER AND BUILDING INSPECTOR AND CODE IN ORDER TO MINIMIZE PUBLIC EXPOSURE TO UNSAFE CONDITIONS AND TO CONTINUE THE OPERATION OF THE SURROUNDING DEVELOPMENT.

15. ANY AND ALL REVISIONS FROM THESE PLANS MUST BE APPROVED BY SEPARATE PERMITS AND ARE REQUIRED FOR, BUT NOT LIMITED TO, PLUMBING, MECHANICAL, ELECTRICAL, SIGNS AND INTERIORS.

16. THIS SET OF CONSTRUCTION DOCUMENTS IS INTENDED TO BE READ AS A COMPREHENSIVE SET OF DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL CAREFULLY STUDY & COMPARE THE CONTRACT DOCUMENTS WITH EACH OTHER (EACH DISCIPLINE) AND THE INFORMATION FURNISHED BY THE DEVELOPER AND NOTIFY THE ARCHITECT OF ANY ERRORS, INCONSISTENCIES OR OMISSIONS. INFORMATION GIVEN BY ONE DISCIPLINE SHALL BE APPLICABLE FOR ALL PORTIONS OF THE CONSTRUCTION DOCUMENTS IN ORDER TO MEET THE DESIGN INTENT. IF THE CONTRACTOR PERFORMS ANY CONSTRUCTION ACTIVITY WHERE AN ERROR, INCONSISTENCY OR OMISSION IN THE CONTRACT DOCUMENTS IS EVIDENT WITHOUT SUCH NOTICE TO THE ARCHITECT, THE CONTRACTOR SHALL ASSUME THE APPROPRIATE RESPONSIBILITY AT NO ADDITIONAL COST TO THE OWNER.

17. WHERE DETAILS, ELEVATIONS OR OTHER CONDITIONS ARE NOT SHOWN, THEY SHALL BE SIMILAR IN CHARACTER TO THOSE SHOWN ON THESE DRAWINGS. WHERE SPECIFIC DIMENSIONS OR DESIGN INTENT CANNOT BE DETERMINED OR REASONABLY INFERRED, CONSULT THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

18. BUILDING AND MONUMENT SIGNS ARE NOT APPROVED WITHIN THE SCOPE OF THIS BUILDING PERMIT. A SEPARATE SIGN LOCATION PERMIT IS REQUIRED FOR EACH SIGN.

FIRE MARSHAL NOTES

1. FIRE ALARM CONTRACTOR SHALL OBTAIN A FIRE ALARM PERMIT FROM FIRE MARSHAL'S OFFICE PRIOR TO INSTALLATION.
2. FIRE ALARM SYSTEM TO BE PROVIDED IN ACCORDANCE WITH THE LOCAL JURISDICTION, LIFE SAFETY ORDINANCE AND NFPA 72.
3. FIRE SPRINKLER CONTRACTOR SHALL OBTAIN A FIRE SPRINKLER PERMIT PRIOR TO INSTALLATION.
4. PLANS FOR FIRE-PROTECTION SPRINKLER PIPING SHALL BE REVIEWED AND APPROVED BY THE FIRE MARSHAL'S OFFICE PRIOR TO INSTALLATION FOR COMPLIANCE WITH ACSE/SEI 7-05 SECTIONS 13.3.1, 13.3.2, AND NFPA 13.
5. THE 2012 EDITION OF THE NFPA CODES AND STANDARDS AS ADOPTED AND MODIFIED BY THE STATE FIRE MARSHAL, NFPA 101 LIFE SAFETY CODE SHALL BE APPLICABLE.
6. PROVIDE THE NUMERICAL STREET ADDRESS OF THE BUILDING ON THE SIDE FACING THE ROADWAY THAT THE BUILDING FRONTS, WITH A MINIMUM SIZE AS REQUIRED BY THE FIRE MARSHAL.
7. IDENTIFICATION OF FIRE BARRIERS SHALL BE PERMANENTLY INSTALLED ABOVE ANY DECORATIVE CEILING AND/OR IN CONCEALED SPACES IN THE RETAIL AREAS. THE FOLLOWING WORDING " 2 HOUR FIRE AND SMOKE BARRIER PROTECT ALL OPENINGS" SHALL BE 2" IN HEIGHT AND SPACED EVERY 12 FEET.
8. CONTACT THE FIRE MARSHAL FOR INSPECTIONS.

ABBREVIATIONS

@	AT	E.W.C.	ELECTRIC WATER COOLER	N.T.S.	NOT TO SCALE
ACT	ACOUSTICAL TILE	F.D.	FLOOR DRAIN	O.D.	OVERFLOW DRAIN
A.F.F.	ABOVE FINISHED FLOOR	FEC	FIRE EXTINGUISHER CABINET	OPP.	OPPOSITE
ALUM.	ALUMINUM	F.F.	FINISH FLOOR	PL.	PLASTIC LAMINATE
B.O.	BOTTOM OF	FL.	FLOOR	PLYWD.	PLYWOOD
BD.	BOARD	FOIC	FURNISHED BY OWNER	PR.	PAIR
BLDG.	BUILDING		INSTALLED BY CONTRACTOR	P.T.	PRESERVATIVE TREATED
BR	BRICK	F.R.	FIRE RETARDANT	O.C.	ON CENTER
BRG	BEARING	FRAN.	FRANCHISEE	R.D.	ROOF DRAIN
CL	CENTER LINE	FRP	FIBERGLASS REINFORCED	S.B.O.	SUPPLIED BY OWNER
C.J.	CONTROL JOINT		POLYESTER	SCHED.	SCHEDULE
C.M.U.	CONCRETE MASONRY UNIT	G.C.	GENERAL CONTRACTOR	SIM.	SIMILAR
COORD.	COORDINATE	GWB	GYPSUM WALL BOARD	STL.	STEEL
COL	COLUMN	H.M.	HOLLOW METAL	STRUCT.	STRUCTURAL
CONC.	CONCRETE	HT	HEIGHT	T.O.	TOP OF
CONT.	CONTINUOUS	I.B.C.	INSTALLED BY CONTRACTOR	T&G	TONGUE AND GROOVE
DIA.	DIAMETER	JT.	JOINT	TYP.	TYPICAL
DWG.	DRAWING	L.L.	LANDLORD	U.N.O.	UNLESS NOTED OTHERWISE
D.S.	DOWN SPOUT	MAT.	MATERIAL	VERT.	VERTICAL
EA.	EACH	MAX.	MAXIMUM	VWC	VINYL WALL COVERING
ELEV.	ELEVATION	MECH.	MECHANICAL	W	WIDE
ELEC.	ELECTRIC	MIN.	MINIMUM	W/	WITH
E.S.	EQUIPMENT SUPPLIER	MTL.	METAL	WD.	WOOD
EXP.	EXPANSION	NC.	NON-COMBUSTIBLE	WRB	WEATHER RESISTIVE BARRIER
EXT.	EXTERIOR	N.I.C.	NOT IN CONTRACT	W.W.F.	WELDED WIRE FABRIC

SYMBOLS

BUILDING 1300

TOWN SQUARE
HALCYON VILLAGE CENTER

FORSYTH COUNTY, GA

LOCATION MAP

KEY PLAN

PROJECT DIRECTORY

CLIENT:

ROCA POINT PARTNERS
309 EAST PACES FERRY RD. SUITE 825
ATLANTA, GEORGIA 30305

OWNER:
PATRICK LEONARD
TEL: 404-855-5854
EMAIL:PATRICK.LEONARD@ROCAPOINT.COM

ARCHITECT / INTERIOR DESIGNER:

AKA STUDIO PC
74 WOODSTOCK RD.
ROSWELL, GEORGIA 30075

ROBERT ZAPPULLA
DIRECT: (770) 624-9030
EMAIL: RZAPPULLA@AKASTUDIOPC.COM

STRUCTURAL:

UZUN + CASE
1230 PEACHTREE ST. NE, SUITE 2500
ATLANTA, GEORGIA, 30309

MARTIN A. CUADRA
TEL: (678) 553-5200
EMAIL: MCUADRA@UZUNCASE.COM

MECHANICAL / ELECTRICAL / PLUMBING:

PROFICIENT ENGINEERING, INC
6991 PEACHTREE INDUSTRIAL BLVD.
BLDG. 700
PEACHTREE CORNERS, GEORGIA, 30092

PAUL KENNEY, PE
TEL: (404) 330-9798
CELL: (678) 591-0122
EMAIL: PK@PROFICIENTENGINEERING.COM

FORSYTH COUNTY REQUIREMENTS

1. BUILDING MATERIALS SHALL COMPLY WITH THE CONSTRUCTION TYPE AND DESIGN CRITERIA OF THE BUILDING PER 2018 IBC 602.
2. SEE CIVIL DRAWINGS FOR SITE PLAN SUBMITTED FOR LDP.
3. DUMPSTER ENCLOSURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH 2018 INTERNATIONAL FIRE CODE 304.3.3.
4. SEE DOOR SCHEDULE FOR FIRE RATINGS, CLOSURE TYPES, AND HARDWARE.
5. SEE DOOR AND WINDOW SCHEDULE FOR SAFETY GLAZING WHERE REQUIRED IN ALL DOORS AND WINDOWS FOR ALL HAZARDOUS LOCATIONS PER 2018 IBC 2406.4.3.
6. MEMBRANE PENETRATIONS OF A RATED FLOOR/CEILING OR ROOF CEILING ASSEMBLIES BY NON-RATED PARTITIONS SHALL NOT BE ALLOWED PER 2018 IBC 714.3.2.
7. MEMBRANE PENETRATIONS OF A RATED FLOOR/CEILING OR ROOF CEILING ASSEMBLIES BY RATED PARTITIONS SHALL BE ALLOWED ONLY IF NO LESS THAN THE RATING OF THE ASSEMBLY AND INSTALLED WITH A DOUBLE WOOD TOP PLATE PER 2018 IBC 714.4.1.1.1.
8. SUPPORTING CONSTRUCTION FOR ALL RATED CEILING ASSEMBLIES SHALL BE PROTECTED TO AFFORD THE REQUIRED FIRE-RESISTANCE RATING OF THE CEILING ASSEMBLY PER 2018 IBC 711.4.
9. SUPPORTING CONSTRUCTION OF FIRE PARTITIONS SHALL BE PROTECTED TO AFFORD THE REQUIRED FIRE-RESISTANCE RATING OF THE FIRE PARTITION. EXCEPTIONS: TENANT AND SLEEPING UNIT SEPARATION WALLS AND CORRIDOR WALLS IN 2B, 3B, AND 5B CONSTRUCTION PER 2018 IBC 708.4.
10. COLUMNS, GIRDERS, TRUSSES, BEAMS, LINTELS OR OTHER STRUCTURAL MEMBERS THAT ARE REQUIRED TO HAVE A FIRE-RESISTANCE RATING THAT SUPPORT MORE THAN TWO FLOORS, ONE FLOOR AND ONE ROOF, OR SUPPORT A LOAD BEARING WALL MUST HAVE INDIVIDUAL PROTECTION PER 2018 IBC 704.
11. DRAFT STOPPING IS REQUIRED IN ATTIC OR CONCEALED SPACES PER 2018 IBC 718.4.
12. MINIMUM LOW SLOPE ROOF SOPES SHALL BE 1/4" : 1'-0"" AND STEEP SLOPE ROOFS SHALL BE 3" : 1'-0" PER 2018 IBC CHAPETER 15.
13. TOILET ROOMS SHALL NOT OPEN DIRECTLY INTO A ROOM USED FOR THE PREPARATION OF FOOD FOR SERVICE TO THE PUBLIC PER 2018 IBC 1210.4.
14. SEE STRUCTURAL DRAWINGS FOR DESIGN LOAD FOR FLOOR LIVE LOAD, ROOF LOAD, WIND LOAD, SNOW LOAD PER 2018 IBC 1603.1.
15. MAINTAIN SIX INCHES MINIMUM CLEARANCE BETWEEN BOTTOM EDGES OF EXTERIOR WALL COVERING (EXCLUDING MASONRY VENEER) TO THE TOP OF EXPOSED EARTH, OR A MINIMUM TWO INCHES ABOVE PAVED AREAS TO PROVIDE A CLEAR, VISIBLE INSPECTION AREA PER 2018 IBC GA AMENDMENTS 1405.19.
16. MINIMUM CLEARANCE FROM DOOR LATCH TO ANY OBSTRUCTION (IN THIS CASE A DRINKING FOUNTAIN) IS 18 INCHES PER2010 ADA TABLE 404.2.4.1.
17. SEE STRUCTURAL DRAWINGS FOR MINIMUM DEPTH OF FOOTING BELOW GRADE.
18. FOR ENERGY CODE COMPLIANCE FOR ENVELOPE, MECHANICAL, AND LIGHTING BY SUBMITTING AN ENERGY CODE COM-CHECK REPORTS INCLUDED IN THESE DRAWINGS.
19. PUBLIC OCCUPANTS CANNOT EXIT THROUGH STOREROOMS, KITCHEN, WORKROOMS OR OTHER SIMILAR SPACES PER 2012 LSC 7.5.2.1.
20. OBJECTS MORE THAN 27" AND NOT MORE THAN 80" ABOVE THE FINISH FLOOR OR GROUND SHALL NOT PROTRUDE MORE THAN 4" HORIZONTALLY PER 2010 ADA 307.1.
21. STAIRS SHALL BE PROPERLY CONSTRUCTED WITH TREAD HEIGHT AND DEPTH NOTED ON THE DRAWINGS, WITH PROPER INSTALLED HANDRAILS PER 2012 LSC 7.2.2.3.5 AND 7.2.2.4.
22. HANDRAILS SHALL EXTEND PAST THE NOSING FOR TOP OF STAIRS 12" AND BOTTOM LENGTH OF ONE TREAD. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT PER 2010 ADA 505.10.
23. MAINTAIN MINIMUM MANEUVERING CLEARANCES AT DOORS AND GATES PER 2010 ADA 404.2.4.
24. REMOTE ACCESS FOR EGRESS SHALL COMPLY WITH 2012 LSC 7.5.1.3.2.
25. MAINTAIN PROPER WORKING CLEARANCE FOR ELECTRICAL EQUIPMENT PER 2017 NEC 110.26.
26. ALL 120 VOLT SINGLE PHASE 15-20 AMP RECEPTACLES INSTALLED OUTDOORS, IN BATHROOMS, IN KITCHENS AND ON ROOFTOPS SHALL HAVE GFCI PROTECTION PER 2017 NEC 210.8.
27. LIGHT SWITCHES SHALL BE LOCATED IN THE SAME ROOM OF WHICH THE LIGHTS THEY OPERATE PER 2015 IECC 505.2 AND ASHRA 90.1-2007 9.4.1.2B.
28. CLASS ROOMS, CONFERENCE/MEETING ROOMS AND EMPLOYEE LUNCH/BREAK ROOM MUST HAVE OCCUPANT SENSING CONTROLS PER ASHRA 90.1-2007 9.4.1.2A.
29. BRANCH CIRCUITS FEEDING EMERGENCY LIGHTS SHALL BE ON THE SAME BRANCH CIRCUIT AS THE NORMAL LIGHTING IN THAT AREA CONNECTED AHEAD OF SWITCHES PER 2017 NEC 700.17.
30. SEE ELECTRICAL DRAWINGS FOR THE LOCATION OF ALL ELECTRICAL EQUIPMENT AND THE PHYSICAL PROTECTION OF PANEL BOARDS, TRANSFORMERS, ETC. PER 2017 NEC 110.27B.
31. SEE MECHANICAL DRAWINGS FOR EQUIPMENT LIST FOR SPECIFICATIONS OF OUTPUT AND INPUT BTU, VENTILATION, POWER CONSUMPTION, OUTDOOR AIR, ETC.
32. OUTDOOR AIR REQUIREMENTS SHALL COMPLY WITH THE VENTILATION REQUIREMENTS OUTLINED IN THE 2018 IMC 403.2.
33. INTERIOR SPACES INTENDED FOR HUMAN OCCUPANCY SHALL BE CAPABLE OF MAINTAINING A MINIMUM OF 68 DEGREES F AT A POINT 3 FEET ABOVE THE FLOOR PER 2018 IBC 1204.1.
34. SMOKE DETECTORS SHALL BE INSTALLED IN RETURN AIR SYSTEM WITH A DESIGN CAPACITY GREATER THAN 2,000 CFM PER 2018 IMC GA AMENDMENT 606.2.1, SEE MECHANICAL DRAWINGS.
35. PROVIDE A TYPE 1 GREASE HOODS PER NFPA 97.
36. EGRESS CORRIDORS SHALL NOT SERVE AS SUPPLY, RETURN, EXHAUST, RELIEF OR VENTILATION AIR DUCTS PER 2018 IMC 601.2.
37. PROVIDE APPROVED DAMPERS WHEN PASSING THROUGH RATED CONSTRUCTION OR OTHER METHODS OF COMPLYING PER 2018 IMC 607.5, SEE MECHANICAL DRAWINGS.
38. PROVIDE PERMANENT LADDER ACCESS TO MECHANICAL EQUIPMENT AND APPLIANCES LOCATED ON ROOFS THAT EXCEED 16 FEET ABOVE FINISH FLOOR PER 2018 IMC 306.5.
39. PROVIDE DRINKING FOUNTAIN; WITH HI/LO STYLE PER 2018 IPC 410.1 AND 2010 ADA 211.2.
40. NO FEWER THAN TWO DRINKING FOUNTAINS SHALL BE PROVIDED PER 2010 ADA 211.2.
41. PROVIDE TOILET FACILITIES FOR CUSTOMER USE PER 2018 IPC 403.1.
42. REQUIRED LAVATORIES SHALL BE LOCATED IN THE SAME ROOM AS THE REQUIRED WATER CLOSET PER 2018 IPC 405.3.2.
43. CUSTOMERS MAY NOT PASS THROUGH AN EMPLOYEE AREA TO ACCESS A TOILET ROOM PER 2018 IPC 403.3.1.
44. PROVIDE SEPARATE GENDER FACILITIES PER 2018 IPC 403.2.
45. PROVIDE THE REQUIRED AMBULATORY ACCESSIBLE COMPARTMENTS PER 2010 ADA 213.3.1.
46. INSULATE ALL MOVING WATER IN CIRCULATING SYSTEM WITH 1" WALL INSULATION PER 2018 IPC 607.5.
47. WATER, SOIL, OR WASTE PIPES INSTALLED IN OUTSIDE WALLS, ATTICS, CRAWL SPACES, OR IN UNHEATED BUILDINGS MUST HAVE FREEZE PROTECTION PER 2018 IPC 305.4.
48. LAVATORIES REQUIRE 0.5 GPM AERATORS OR 0.25 GPM PER METERING CYCLE PER 2018 IPC 604.4, SEE PLUMBING DRAWINGS.
49. LAVATORIES AND ANY HAND WASHING SINKS ARE REQUIRED TO BE LIMITED TO 110 DEGREES F THROUGH A TEMPERING DEVICE PER 2018 IPC 416.5, SEE PLUMBING DRAWINGS
50. WATER CLOSETS MUST BE 1.28 GALLONS PER FLUSH CYCLE PER 2018 IPC GA AMENDMENTS 420.1, SEE PLUMBING DRAWINGS.
51. FLUSH HANDLES FOR WATER CLOSETS SHALL BE ON WIDE SIDE OF WATER CLOSET COMPARTMENT PER 2010 ADA 604.6, SEE PLUMBING DRAWING.
52. URINAL PARTITIONS SHALL BE WITHIN 12 INCHES ABOVE THE FINISH FLOOR TO A HEIGHT OF AT LEAST 60 INCHES AND MUST BE 18 INCHES DEEP OR 6 INCHES PAST THE FRONT LIP OF THE URINAL, WHICHEVER IS GREATER PER 2018 IPC 405.3.5.
53. TOILET STALLS SHALL BE A MINIMUM OF 30" WIDE BY 60" DEEP PER 2018 IPC 405.3.1.
54. CONDENSATE (OR ANY UN-METERED WATER) SHALL NOT DISCHARGE INTO SANITARY SYSTEM PER FORSYTH COUNTY UNIFIED DEVELOPMENT CODE 18-5.18.
55. ANY/ALL GAS POWERED DEVICES THAT USE COMPRESSED AIR, ALL PIPING SHALL BE COPPER MATERIAL.
56. INDIVIDUAL BACK FLOW PROTECTION ARE REQUIRED ON ALL WATER OUTLETS TO EQUIPMENT (I.E. COFFEE MAKER, FOUNTAIN DRINKS, ICE MACHINE, HANDHELD SPRAY HEAD) PER 2018 IPC TABLE 608.1.
57. NO FIXTURES SHALL BE LOCATED IN THE CLEAR FLOOR SPACE OF THE WATER CLOSET. 60" WIDE BY 56" DEEP PER 2010 ADA 604.3.1.
58. TOILET ROOMS INCLUDING PRIVATE OFFICES SHALL COMPLY WITH 2010 ADA 213.1.
59. PROVIDE ADA GRAB BARS, TOILET PAPER DISPENSER, ETC. FOR THE RESTROOMS AS NOTED ON DRAWINGS, PER 2010 ADA.

CODE ANALYSIS

JURISDICTION:	FORSYTH COUNTY, GA
ZONING:	MU
BUILDING USE GROUP:	A-3
CONSTRUCTION TYPE:	IIB
USABLE BUILDING AREA:	22,483 S.F. TOTAL (1ST + 2ND FLOORS)
BUILDING HEIGHT:	50'-5" (TO TOP OF PEAK @ ROOF)
NUMBER OF STORIES:	2

A. OCCUPANCY CLASSIFICATION: A-3
PRIMARY OCCUPANCY: FLOOR LEVELS 1 & 2 = ASSEMBLY

B. TYPE OF CONSTRUCTION: IIB, SPRINKLERED: YES

C. PROPOSED TENANT AREA IN SQUARE FEET: LEVELS 1 = 11,563 S.F
LEVELS 2 = 10,920 S.F
D. BUILDING PERMIT: SHELL & CORE + TENANT FITUP

OCCUPANCY SUMMARY

ASSEMBLY:	FLOOR LEVELS
LEVEL 01 FITNESS	6,568 S.F / 50 SF PER PERSON = 132 PERSONS
LEVEL 01 LOBBY	857 S.F / 50 SF PER PERSON = 18 PERSONS
LEVEL 01 MENS LOCKER	513 S.F / 50 SF PER PERSON = 11 PERSONS
LEVEL 01 WOMENS LOCKER	655 S.F / 50 SF PER PERSON = 14 PERSONS
LEVEL 01 TENANT	1,534 S.F / 15 SF PER PERSON = 103 PERSONS
LEVEL 01 LAUNDRY	150 S.F / 100 SF PER PERSON = 2 PERSONS
LEVEL 01 JANITOR CL. (2)	74 S.F / 100(2) SF PER PERSON = 2 PERSONS
LEVEL 01 TOTAL:	= 282 PERSONS
LEVEL 02 FITNESS	6,659 S.F / 50 SF PER PERSON = 134 PERSONS
LEVEL 02 FAST TWITCH ZONES	2,978 S.F / 50 SF PER PERSON = 60 PERSONS
LEVEL 02 OFFICE	160 S.F / 100 SF PER PERSON = 2 PERSONS
LEVEL 02 STAFF BREAK RM.	128 S.F / 50 SF PER PERSON = 3 PERSONS
LEVEL 02 STORAGE	75 S.F / 100 SF PER PERSON = 1 PERSONS
LEVEL 02 FITNESS STORAGE	180 S.F / 100 SF PER PERSON = 2 PERSONS
LEVEL 02 JANITOR CL.	23 S.F / 100 SF PER PERSON = 1 PERSONS
LEVEL 02 TOTAL:	= 205 PERSONS
(LEVEL 01 + LEVEL 02):	= 487 TOTAL OCCUPANTS (= 415 / 2 = 243.5 = 244 OCCUPANTS)

PLUMBING FIXTURE COUNT:

	MALE REQ.	FEMALE REQ.	PROVIDED
			(M / F)
LAV	2	2	3 / 4*
W.C.	2	4	3 / 5*
URINAL	1	-	3**
D.F.	1	1	2

*TOTAL LEVELS 1 & 2
**MEN'S LOCKER ROOM

ENERGY REQUIREMENTS:
(SEE COMCHECK REPORTS)

ROOF INSULATION = R-25ci AT FLAT ROOFS
WALL INSULATION = R-19 BATT IN CAVITY
FLOORS OVER UNHEATED SPACES = R-20ci

*SLABS ARE UNHEATED SO NO INSULATION REQ'D
**MINIMUM WINDOW SYSTEMS TO HAVE
U=.29 & .23 SHGC RATINGS

DRAWING INDEX

Sheet Number	Sheet Name	04.30.2020	05.06.2020
ARCHITECTURAL			
A-0.00	COVER SHEET	X	X
A-0.01	COMCHECK	X	X
A-0.02	OVERALL SITE PLAN	X	X
A-0.03	ARCHITECTURAL SITE PLAN	X	X
A-0.04	LIFE SAFETY PLANS LEVELS 1 & 2	X	X
A-0.05	ADA DETAILS	X	X
A-1.01	LEVEL 1 EOS PLAN	X	X
A-1.02	LEVEL 2 EOS PLAN	X	X
A-1.11	LEVEL 1 FLOOR PLAN	X	X
A-1.12	LEVEL 2 FLOOR PLAN	X	X
A-1.13	ROOF PLAN	X	X
A-1.21	LEVEL 1 REFLECTED CEILING PLAN	X	X
A-1.22	LEVEL 2 REFLECTED CEILING PLAN	X	X
A-2.01	EXTERIOR ELEVATIONS	X	X
A-2.02	EXTERIOR ELEVATIONS	X	X
A-3.01	BUILDING SECTIONS	X	X
A-3.02	WALL SECTIONS	X	X
A-3.03	WALL SECTIONS	X	X
A-4.01	ENLARGED FLOOR PLANS	X	X
A-5.01	PLAN DETAILS	X	X
A-5.02	SECTION DETAILS	X	X
A-6.01	VERTICAL CIRCULATIONS	X	X
A-6.02	VERTICAL CIRCULATIONS	X	X
A-6.03	STAIR DETAILS	X	X
A-7.01	PARTITION TYPES	X	X
A-7.02	UL ASSEMBLIES - WALLS	X	X
A-8.01	DOOR SCHEDULES	X	X
A-8.02	WINDOW SCHEDULE	X	X
A-8.03	INTERIOR STOREFRONT SCHEDULE	X	X
A-8.04	ADAAG SIGNAGE AND CLEARANCES		X
INTERIOR			
ID-1.01	LEVEL 1 INTERIOR FINISH PLAN	X	X
ID-1.02	LEVEL 2 INTERIOR FINISH PLAN	X	X
ID-2.01	LOCKERS AND RESTROOMS	X	X
ID-3.01	INTERIOR ELEVATIONS	X	X
ID-3.02	INTERIOR ELEVATIONS	X	X
ID-4.01	INTERIOR SECTIONS AND DETAILS	X	X
STRUCTURAL			
S-0.01	GENERAL NOTES	X	X
S-0.02	AXONOMETRIC VIEWS	X	X
S-0.03	TYPICAL CONCRETE SECTIONS & DETAILS	X	X
S-0.04	TYPICAL CONCRETE SECTIONS & DETAILS	X	X
S-0.05	TYPICAL STEEL SECTIONS & DETAILS	X	X
S-0.06	TYPICAL STEEL SECTIONS & DETAILS	X	X
S-1.01	FOUNDATION AND SLAB-ON-GROUND PLAN	X	X
S-1.02	2ND FLOOR FRAMING PLAN	X	X
S-1.03	ROOF FRAMING PLAN	X	X
S-2.01	CONCRETE SECTIONS AND DETAILS	X	X
S-3.01	STEEL COLUMN SCHEDULE AND DETAILS	X	X
S-4.01	STEEL SECTIONS AND DETAILS	X	X
MECHANICAL			
M-0.01	GENERAL	X	X
M-0.02	DETAILS	X	X
M-0.03	SCHEDULES	X	X
M-0.04	SCHEDULES	X	X
M-1.01	1ST FLOOR PLAN	X	X
M-1.02	2ND FLOOR PLAN	X	X
PLUMBING			
P-0.01	GENERAL	X	X
P-0.02	RISERS	X	X
P-0.03	DETAILS	X	X
P-1.01	1ST FLOOR PLAN	X	X
P-1.02	2ND FLOOR PLAN	X	X
P-2.01	ENLARGED PLANS	X	X
ELECTRICAL			
E-0.01	GENERAL	X	X
E-0.02	SCHEDULES	X	X
E-0.03	PANEL SCHEDULES	X	X
E-0.04	COMPLIANCE REPORT	X	X
E-1.01	1ST FLOOR PLAN - POWER	X	X
E-1.02	2ND FLOOR PLAN - POWER	X	X
E-2.01	1ST FLOOR PLAN - LIGHTING	X	X
E-2.02	2ND FLOOR PLAN - LIGHTING	X	X
E-3.01	ENLARGED ELEVATOR PLAN	X	X

CODE REFERENCES

ALL BUILDING CONSTRUCTION DESCRIBED WITHIN THESE PLANS SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE LATEST GEORGIA STATE MINIMUM STANDARD CONSTRUCTION CODES WHICH INCLUDE APPENDICES AND AMENDMENTS TO THE FOLLOWING CODES:

APPLICABLE CODES:

BUILDING:	2018 INTERNATIONAL BUILDING CODE W/ 2020 GA AMENDMENTS
PLUMBING:	2018 INTERNATIONAL PLUMBING CODE W/ 2020 GA AMENDMENTS
MECHANICAL:	2018 INTERNATIONAL MECHANICAL CODE W/ 2020 GA AMENDMENTS
FUEL/GAS:	2018 INTERNATIONAL FUEL GAS CODE W/ 2020 GA AMENDMENTS
ENERGY:	2015 INTERNATIONAL ENERGY CONSERVATION CODE W/ 2020 GA AMENDMENTS
FIRE:	2018 INTERNATIONAL FIRE CODE
ELECTRICAL:	2017 NATIONAL ELECTRIC CODE
ACCESSIBILITY:	GEORGIA ACCESSIBILITY CODE 120-3-20
LIFE SAFETY:	2012 NFPA 101 LIFE SAFETY CODE (120-3-3 RULES AND REGULATIONS FOR THE STATE MINIMUM FIRE SAFETY STANDARDS)

NOTE:
TO THE BEST OF THE ARCHITECT'S AND ENGINEERS KNOWLEDGE, THE PLANS AND SPECIFICATIONS SHOWN HEREIN COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS AS DETERMINED BY THE CITY OF ALPHARETTA IN ACCORDANCE WITH SECTION 1 OF THE INTERNATIONAL BUILDING CODE, NFPA 101, AND THE LOCAL ORDINANCE.

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
DRAWN BY: 1 ARCH

DRAWINGS FOR:
Roca Point Partners
309 East Paces Ferry Road
Suite 825
Atlanta, GA 30305

THE FORUM
ATHLETIC
CLUB

AKA
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74 WOODSTOCK ROAD,
ROSWELL, GA. 30075
(770) 642-9030 info@akastudiopc.com

ROBERT ZAPPULLA

PROJECT #: O-2002

COVER SHEET

A-0.00

COMcheck Software Version 4.1.2.2

Envelope Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	THE FORUM ATHLETIC CLUB
Location:	Alpharetta, Georgia
Climate Zone:	3a
Project Type:	New Construction
Vertical Glazing / Wall Area:	24%

Construction Site:
1300 Town Square
Alpharetta, GA 30005

Owner/Agent:
Patrick Leonard
3424 Peachtree Rd NE
Atlanta, GA 30326
(404) 424-9608
danielle.handy@rocapoint.com

Designer/Contractor:
Robert Zappulla
AKA Studio, P.C.
74 Woodstock Road
Roswell, GA 30075
770-642-9030
rzappulla@akastudiopc.com

Additional Efficiency Package(s)

High efficiency HVAC. Systems that do not meet the performance requirement will be identified in the mechanical requirements checklist report.

Building Area	Floor Area
1-1st floor (Gymnasium) : Nonresidential	11563

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof 1: Metal Building, Standing Seam: High Albedo Roof Exempt, Single Insulation Layer with Thermal Blocks (d), High Albedo Roof Exemption = Steep Sloped Roof, [Bldg. Use 1 - 1st floor]	11563	0.0	25.0	0.039	0.035
Floor 1: Slab-On-Grade:Unheated, [Bldg. Use 1 - 1st floor] (c)	466	---	---	0.730	0.730
NORTH					
Exterior Wall - BACK: Steel-Framed, 16" o.c., [Bldg. Use 1 - 1st floor]	2562	19.0	0.0	0.109	0.064
WINDOW - BACK: Wood Frame:Fixed, Perf. Specs.: Product ID PELLA, SOLARBAN 90 GLAZING, SHGC 0.23, VT 0.51, [Bldg. Use 1 - 1st floor] (b)	660	---	---	0.290	0.460
Door: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID PELLA, SOLARBAN 90 GLAZING, SHGC 0.23, VT 0.51, [Bldg. Use 1 - 1st floor] (b)	72	---	---	0.290	0.770
Exterior Wall - BACK BASEMENT: Solid Concrete:12" Thickness, Normal Density, Furring: None, Wall Ht 15.0, Depth B.G. 12.0, [Bldg. Use 1 - 1st floor]	2153	---	0.0	0.630	1.140
EAST					
Exterior Wall - RIGHT: Steel-Framed, 16" o.c., [Bldg. Use 1 - 1st floor]	2980	19.0	0.0	0.109	0.064
WINDOW - RIGHT: Wood Frame:Fixed, Perf. Specs.: Product ID PELLA, SOLARBAN 90 GLAZING, SHGC 0.23, VT 0.51, [Bldg. Use 1 - 1st floor] (b)	432	---	---	0.290	0.460
Door 4: Uninsulated Single-Layer Metal, Swinging, [Bldg. Use 1 - 1st floor]	21	---	---	0.780	0.610

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
SOUTH					
Exterior Wall - FRONT: Steel-Framed, 16" o.c., [Bldg. Use 1 - 1st floor]	4718	19.0	0.0	0.109	0.064
WINDOW - FRONT: Wood Frame:Fixed, Perf. Specs.: Product ID PELLA, SOLARBAN 90 GLAZING, SHGC 0.23, VT 0.51, [Bldg. Use 1 - 1st floor] (b)	1580	---	---	0.290	0.460
Door: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID PELLA, SOLARBAN 90 GLAZING, SHGC 0.23, VT 0.51, [Bldg. Use 1 - 1st floor] (b)	48	---	---	0.290	0.770
WEST					
Exterior Wall - LEFT: Steel-Framed, 16" o.c., [Bldg. Use 1 - 1st floor]	2980	19.0	0.0	0.109	0.064
WINDOW - LEFT: Wood Frame:Fixed, Perf. Specs.: Product ID PELLA, SOLARBAN 90 GLAZING, SHGC 0.23, VT 0.51, [Bldg. Use 1 - 1st floor] (b)	428	---	---	0.290	0.460
Door: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID PELLA, SOLARBAN 90 GLAZING, SHGC 0.23, VT 0.51, [Bldg. Use 1 - 1st floor] (b)	48	---	---	0.290	0.770

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.
(d) Thermal spacer block with minimum R-3.5 must be installed above the purlin/batt, and the roof deck secured to the purlins.

Envelope PASSES: Design 22% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.2.2 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

ROBERT ZAPPULLA — Name - Title
Signature
04/230/2020 — Date

COMcheck Software Version 4.1.2.2

Inspection Checklist

Energy Code: 2015 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR1][1]	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.4.1 [PR10][1]	The vertical fenestration area <= 30 percent of the gross above-grade wall area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.4.1 [PR11][1]	The skylight area <= 3 percent of the gross roof area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.4.2 [PR14][1]	In enclosed spaces > 2,500 ft2 directly under a roof with ceiling heights >15 ft, and used as an office, lobby, atrium, concourse, corridor, storage, gymnasium/exercise center, convention center, automotive service, manufacturing, non-refrigerated warehouse, retail store, distribution/sorting area, transportation, or workshop, the following requirements apply: (a) the daylight zone under skylights is >= half the floor area; (b) the skylight area to daylight zone is >= 3 percent with a skylight VT >= 0.40; or a minimum skylight effective aperture >= 1 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Spaces where the total area net of daylight zones adjacent to vertical fenestration 2,500 s.f. and where the lighting is controlled.
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C303.2 [FO2][f]	Below-grade wall insulation installed per manufacturer's instructions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C303.2 [FO4][f]	Slab edge insulation installed per manufacturer's instructions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C303.2.1 [FO6][f]	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C104 [FO3][f]	Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.6 [FO12][f]	Radiant heating systems panels insulated to >=R-3.5 on face opposite space being heated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply. *See the Envelope Assemblies table for values.*

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Framing / Rough-In Inspection	Complies?	Comments/Assumptions
C303.1.3 [FR12][f]	Fenestration products rated in accordance with NFRC.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C303.1.3 [FR13][f]	Fenestration products are certified as to performance labels or certificates provided.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.4.3 [FR10][f]	Vertical fenestration SHGC value.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.4.3, C402.4.3.4 [FR8][f]	Vertical fenestration U-Factor.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.4.4 [FR14][f]	U-factor of opaque doors associated with the building thermal envelope meets requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.5.1 [FR16][f]	The building envelope contains a continuous air barrier that is sealed in an approved manner and either constructed or tested in an approved manner. Air barrier penetrations are sealed in an approved manner.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.5.2, C402.5.4 [FR18][f]	Factory-built fenestration and doors are labeled as meeting air leakage requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.5.7 [FR17][f]	Vestibules are installed on all building entrances. Doors have self-closing devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.5.5, C403.2.4.3 [ME3][f]	Stair and elevator shaft vents have motorized dampers that automatically close.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Insulation Inspection	Complies?	Comments/Assumptions
C303.1 [IN3][f]	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the roof slope is <=3 in 12.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C303.1 [IN10][f]	Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C303.2 [IN7][f]	Above-grade wall insulation installed per manufacturer's instructions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C303.2.1 [IN14][f]	Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during Foundation Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C402.2.1 [IN17][f]	Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C104 [IN6][f]	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C104 [IN8][f]	Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.6 [IN18][f]	Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C402.3 [IN5][f]	High-albedo roofs satisfy one of the following: 3-year-aged solar reflectance >= 0.55 and thermal emittance >= 0.75 or 3-year-aged solar reflectance index >= 64.0.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Steep Sloped Roof.
C104 [IN2][f]	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.5.1.1 [IN1][f]	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C402.5.3 [FI51][f]	Where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening are located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms are sealed and insulated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.5.6 [FI37][f]	Weatherseals installed on all loading dock cargo doors.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C402.5.8 [FI26][f]	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
DRAWN BY: 1 ARCH

DRAWINGS FOR:
Roca Point Partners
309 East Paces Ferry Road
Suite 825
Atlanta, GA 30305

THE FORUM ATHLETIC CLUB

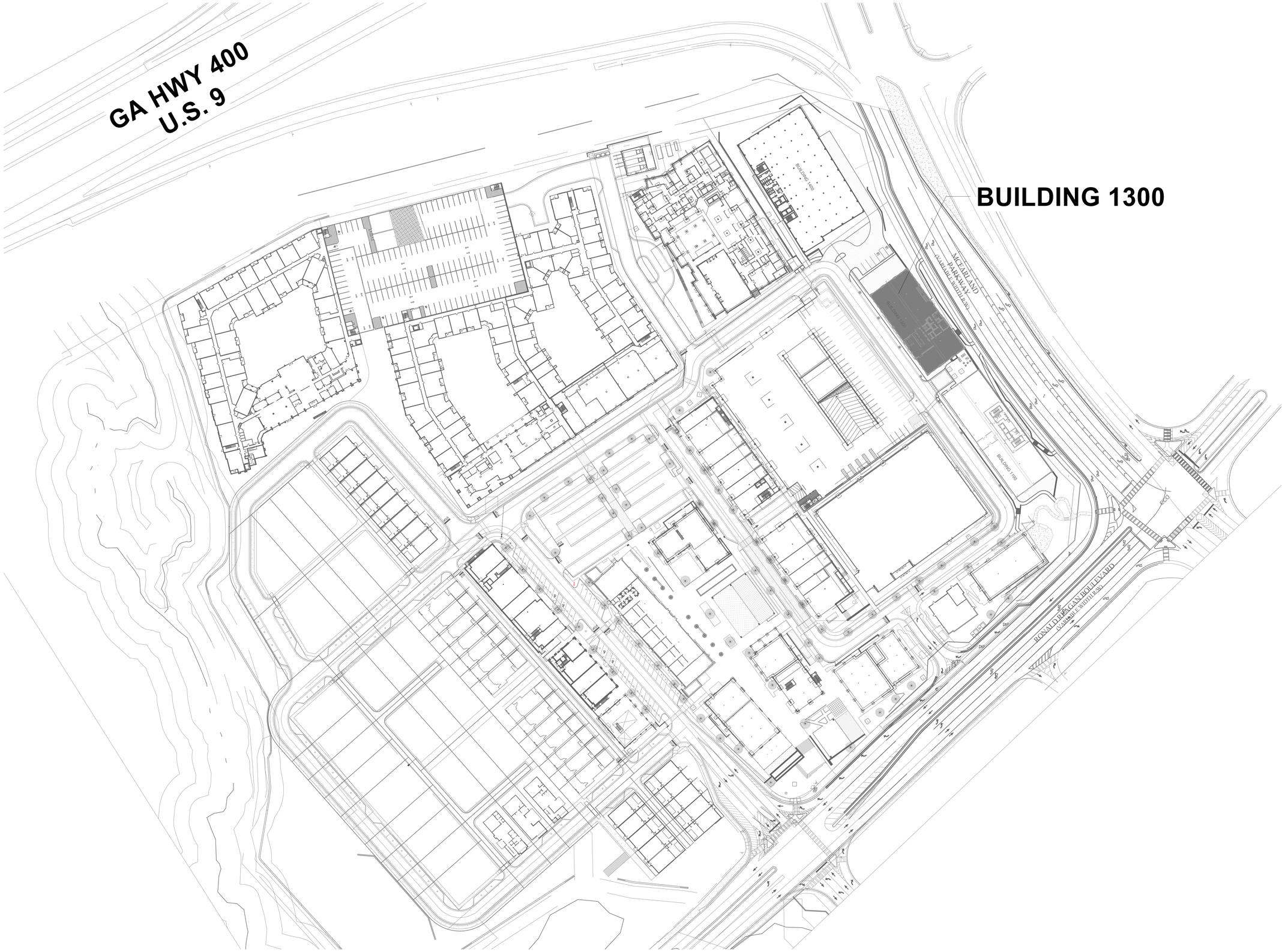
AKA STUDIO, PC
Architects & Interiors
74 WOODSTOCK ROAD,
ROSWELL, GA. 30075
(770) 642-9030 info@akastudiopc.com

STATE OF GEORGIA
ROBERT A. ZAPPULLA
CERTIFICATE NO. 028772
REGISTERED ARCHITECT

PROJECT #: O-2002

COMCHECK

A-0.01



1 OVERALL SITE PLAN
SCALE 1" = 60'-0"

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
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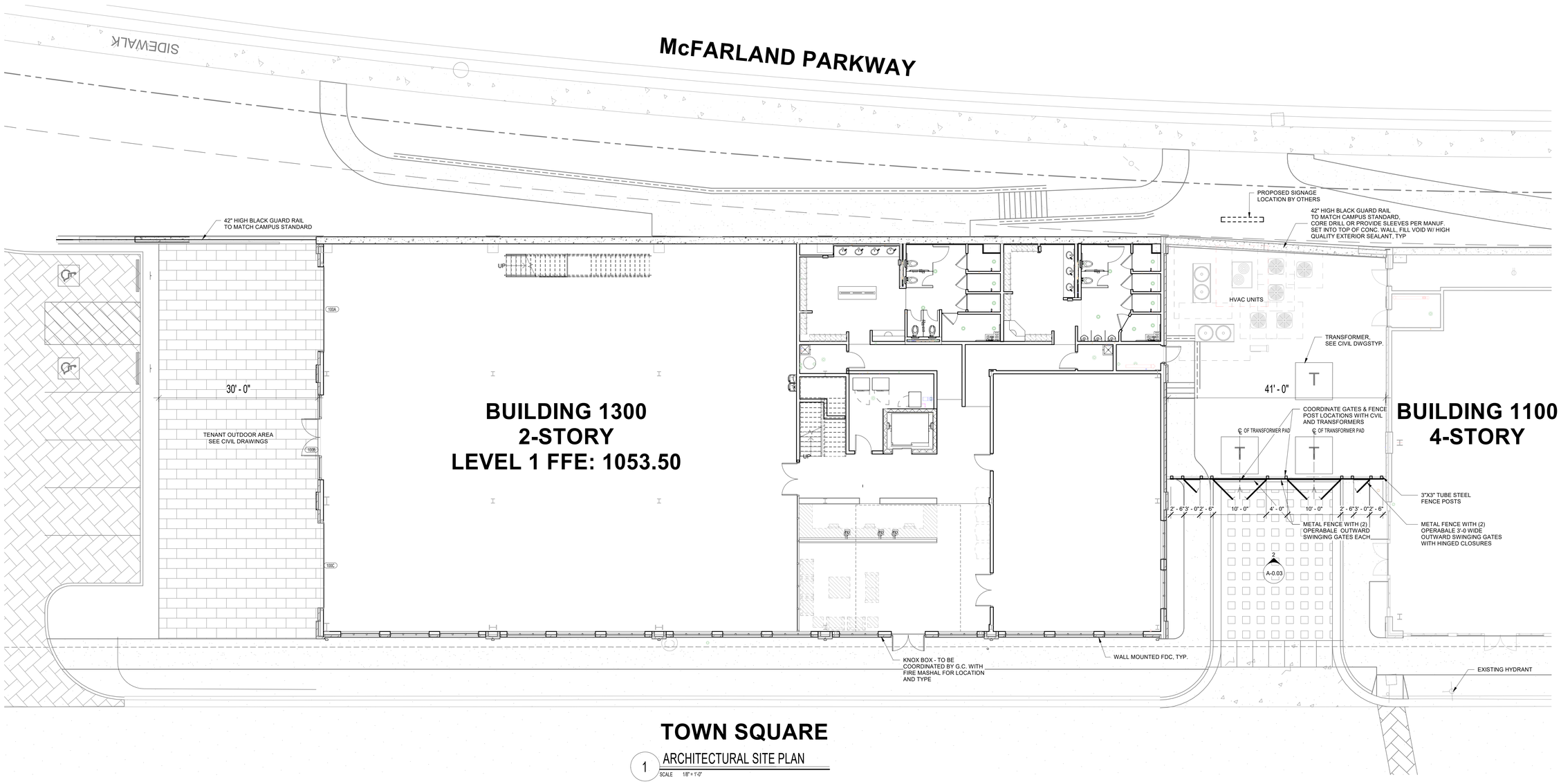
STATE OF GEORGIA
ROBERT A. ZAPPELLA
CERTIFICATE NO. 040777
REGISTERED ARCHITECT

PROJECT #: O-2002

OVERALL SITE PLAN

A-0.02

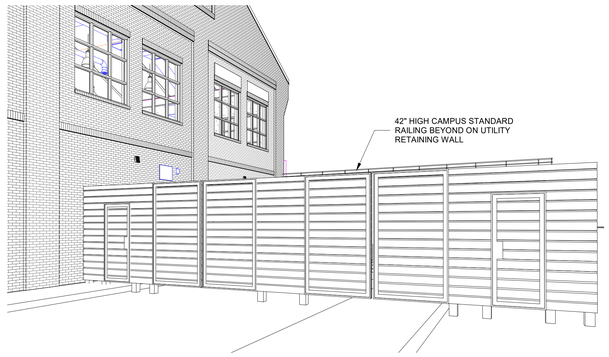


TOWN SQUARE

1 ARCHITECTURAL SITE PLAN

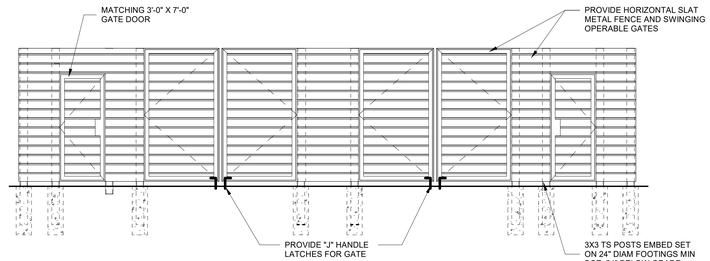
SCALE 1/8" = 1'-0"

CAMPUS STANDARD RAILING



3 GATE PERSPECTIVE VIEW

SCALE



2 GATE ELEVATION

SCALE 1/4" = 1'-0"

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
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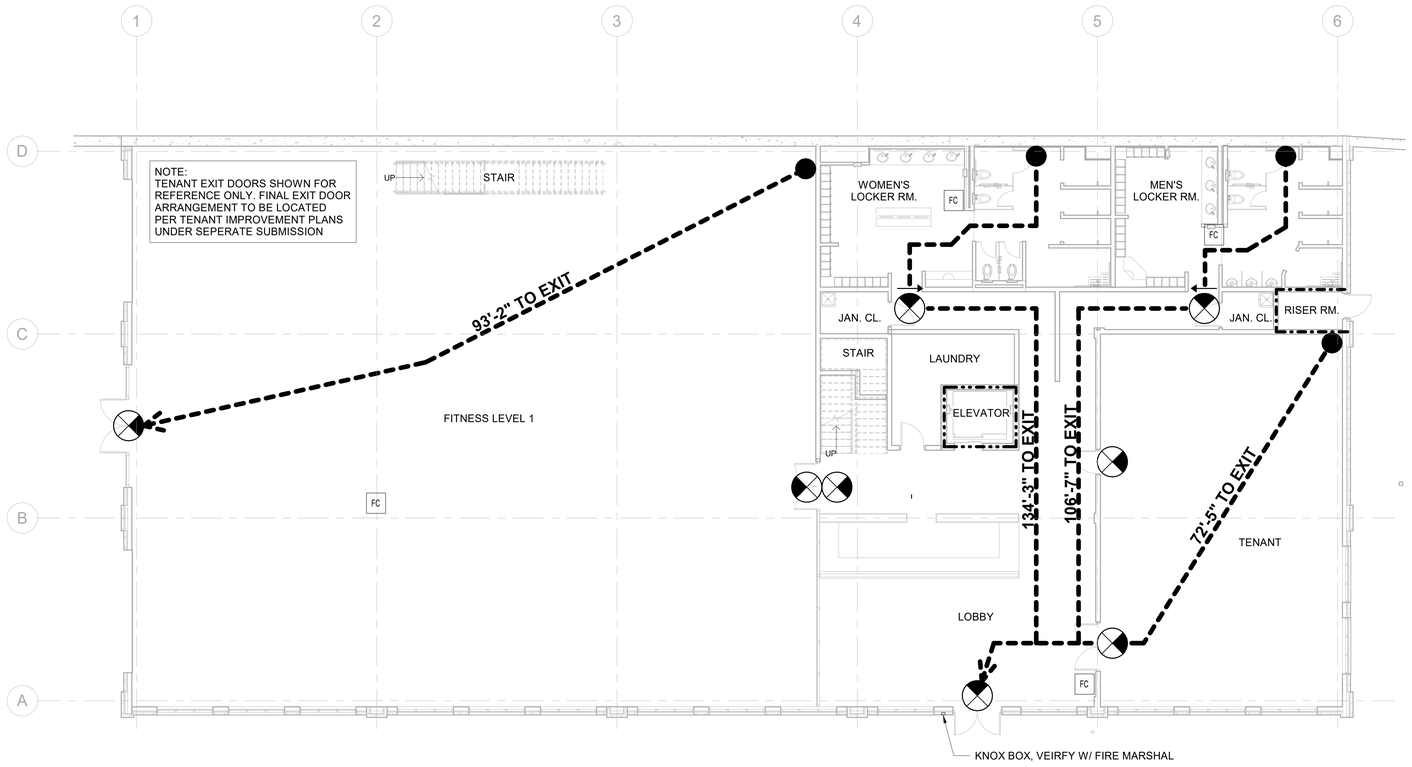
STATE OF GEORGIA
ROBERT A. ZAPPALLA
CERTIFICATE NO. 040703
REGISTERED ARCHITECT

PROJECT #: O-2002

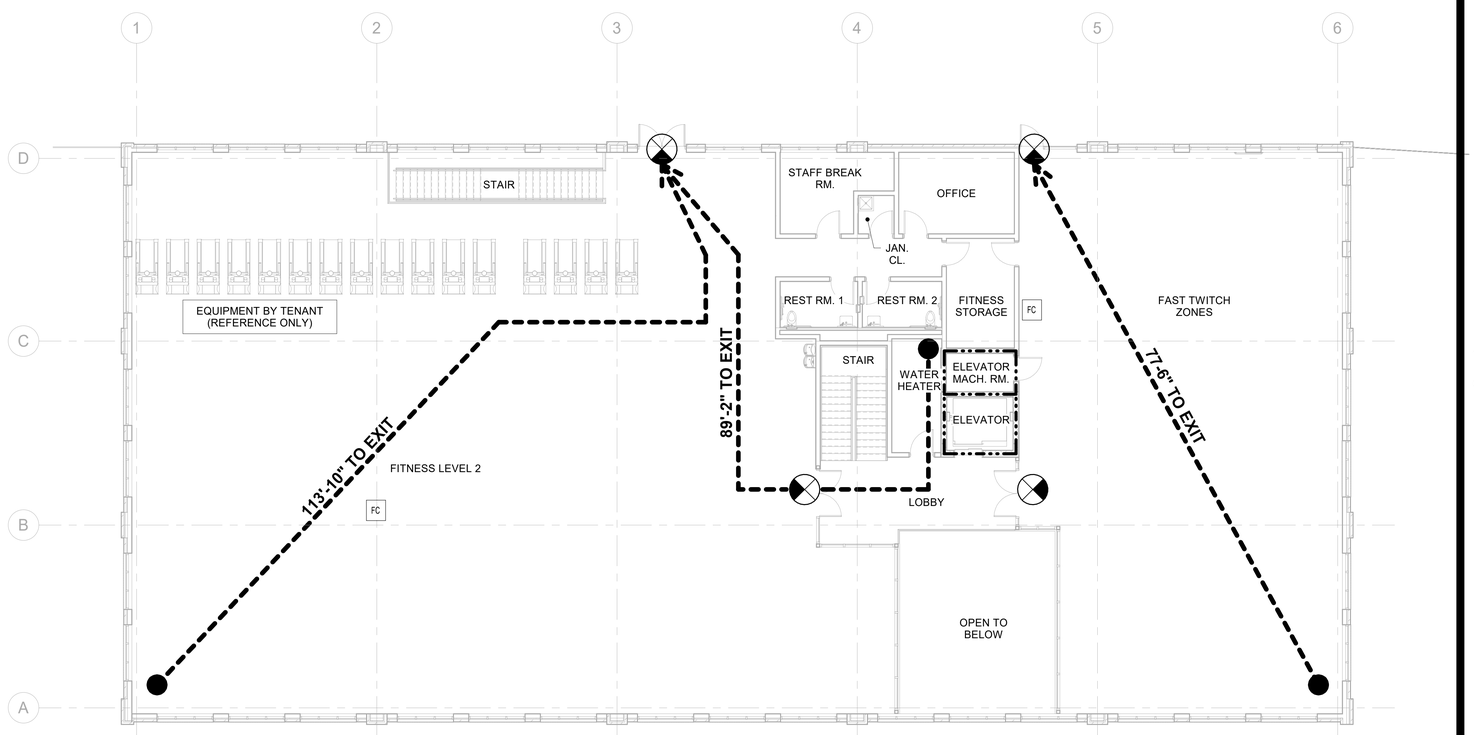
ARCHITECTURAL
SITE PLAN

A-0.03



1 LEVEL 1 - LIFE SAFETY PLAN

SCALE 1/8" = 1'-0"



2 LEVEL 2 - LIFE SAFETY PLAN

SCALE 1/8" = 1'-0"

FIRE EXTINGUISHER NOTES

DESIGNATES FIRE CABINET / EXTINGUISHER

FC : PROVIDE 4A-80B:C PORTABLE FIRE EXTINGUISHERS OF THE QUANTITY, LOCATIONS, AND SPACING AS REQUIRED BY AUTHORITY W/ JURISDICTION.

NOTE: MOUNT FIRE CABINET NO HIGHER THAN 48" OFF OF THE FINISH FLOOR.

PARTITION LEGEND AND NOTES

NON-RATED PARTITION -

1HR RATED PARTITION -

2HR RATED PARTITION -

SMOKE PARTITION -

TRAVEL DISTANCE -

LIFE SAFETY LEGEND AND NOTES

FIRE EXTINGUISHER

R 75'- 0"
FC
CONFIRM LOCATION IN FIELD WITH FM FOR MIN. 75'-0" RADIUS OF COVERAGE
= FIRE CABINET / EXTINGUISHER

NOTES:
1. PROVIDE FIRE EXTINGUISHERS OF THE QUANTITY AND TYPE AS REQUIRED BY THE LOCAL JURISDICTION.

CALCULATIONS:

ASSEMBLY OCCUPANCY (A-3) =	1 OCCUPANT / 50 SF GROSS AREA
MIN. EXIT DOOR WIDTH =	0.20 INCHES X OCCUPANT LOAD
MIN. EXIT STAIR WIDTH =	0.30 INCHES X OCCUPANT LOAD

EGRESS REQUIREMENTS

OCCUPANCY SUMMARY

ASSEMBLY:	FLOOR LEVELS
LEVEL 01 FITNESS	6,568 S.F / 50 SF PER PERSON = 132 PERSONS
LEVEL 01 LOBBY	857 S.F / 50 SF PER PERSON = 18 PERSONS
LEVEL 01 MENS LOCKER	513 S.F / 50 SF PER PERSON = 11 PERSONS
LEVEL 01 WOMENS LOCKER	655 S.F / 50 SF PER PERSON = 14 PERSONS
LEVEL 01 TENANT	1,534 S.F / 15 SF PER PERSON = 103 PERSONS
LEVEL 01 LAUNDRY	150 S.F / 100 SF PER PERSON = 2 PERSONS
LEVEL 01 JANITOR CL. (2)	74 S.F / 100(2) SF PER PERSON = 2 PERSONS
LEVEL 01 TOTAL:	= 282 PERSONS
LEVEL 02 FITNESS	6,659 S.F / 50 SF PER PERSON = 134 PERSONS
LEVEL 02 FAST TWITCH ZONES	2,978 S.F / 50 SF PER PERSON = 60 PERSONS
LEVEL 02 OFFICE	160 S.F / 100 SF PER PERSON = 2 PERSONS
LEVEL 02 STAFF BREAK RM.	128 S.F / 50 SF PER PERSON = 3 PERSONS
LEVEL 02 STORAGE	75 S.F / 100 SF PER PERSON = 1 PERSONS
LEVEL 02 FITNESS STORAGE	180 S.F / 100 SF PER PERSON = 2 PERSONS
LEVEL 02 JANITOR CL.	23 S.F / 100 SF PER PERSON = 1 PERSONS
LEVEL 02 TOTAL:	= 205 PERSONS
(LEVEL 01 + LEVEL 02):	= 487 TOTAL OCCUPANTS
	(= 415 / 2 = 243.5 = 244 OCCUPANTS)

TRAVEL DISTANCE : MAX ALLOWED PER CODE
TYPE A-3 OCCUPANCY- 250'-0" (FOR SPRINKLED)

EGRESS STAIR CAPACITY CHART

LEVEL	OCCUPANCY	NO. OCCUPANTS	NO. OF STAIRS PROVIDED		STAIR EGRESS COMPONENT (INCHES) PER NFPA 101 OCCUPANT LOAD / NUMBER OF EXITS * 0.30"		STAIR EGRESS EXIT DOOR CAPACITY REQUIREMENTS 244 OCCUPANTS MIN * .20 EA = 48.8"	
			REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED
LEVEL 01	ASSEMBLY (A3)	244	2	2	73.2" MIN	136"	48.8" MIN	96"
LEVEL 02	ASSEMBLY (A3)	244	2	2	73.2" MIN	102"	48.8" MIN	96"

DATE	RELEASE
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DRAWN BY: 1 ARCH

DRAWINGS FOR:
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309 East Paces Ferry Road
Suite 825
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THE FORUM ATHLETIC CLUB

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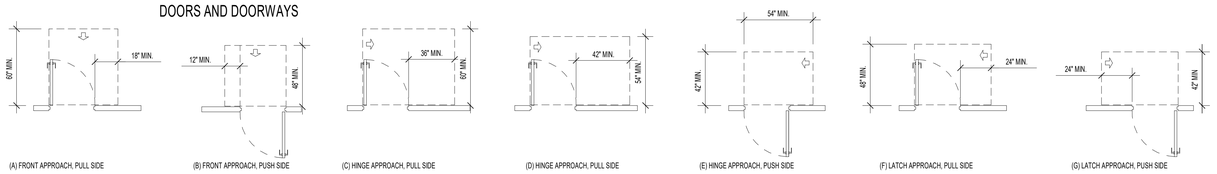
STATE OF GEORGIA
ROBERT A. ZAPPOLLA
CERTIFICATE NO. RA013113
REGISTERED ARCHITECT

PROJECT #: O-2002

LIFE SAFETY PLANS
LEVELS 1 & 2

A-0.04

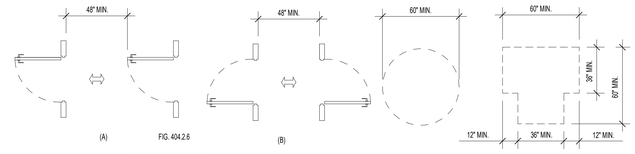
DOORS AND DOORWAYS



(A) FRONT APPROACH, PULL SIDE (B) FRONT APPROACH, PUSH SIDE (C) HINGE APPROACH, PULL SIDE (D) HINGE APPROACH, PULL SIDE (E) HINGE APPROACH, PUSH SIDE (F) LATCH APPROACH, PULL SIDE (G) LATCH APPROACH, PUSH SIDE

FIG. 404.2.4.1
MANEUVERING CLEARANCE AT SWINGING DOORS

CLEAR FLOOR SPACE

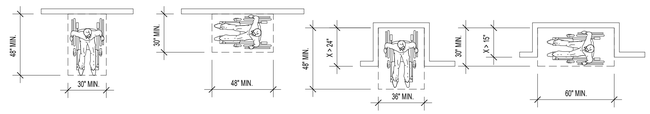


(A) (B)

FIG. 404.2.6
TWO DOORS IN A SERIES

(A) CIRCULAR (B) T-SHAPED

FIG. 304.3
SIZE OF WHEELCHAIR TURNING SPACE



(A) FORWARD (B) PARALLEL (A) FORWARD APPROACH (B) PARALLEL APPROACH

FIG. 405.5
POSITION OF CLEAR FLOOR OR GROUND SPACE

FIG. 305.7
MANEUVERING CLEARANCE IN AN ALCOVE

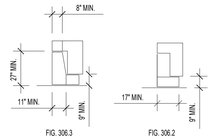


FIG. 306.3
KNEE CLEARANCE

FIG. 306.2
TOE CLEARANCE

REACH RANGES

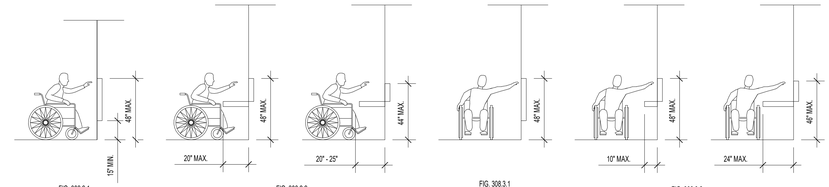


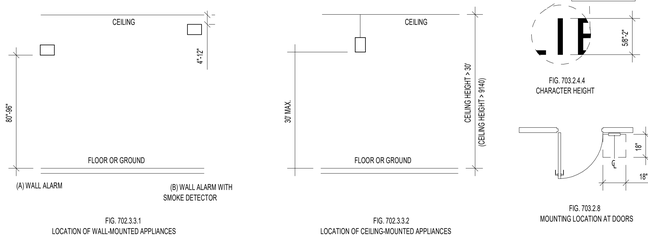
FIG. 308.2.1
UNOBSTRUCTED FORWARD REACH

FIG. 308.2.2
OBSTRUCTED HIGH FORWARD REACH

FIG. 308.3.1
UNOBSTRUCTED SIDE REACH

FIG. 308.3.2
OBSTRUCTED HIGH SIDE REACH

COMMUNICATION ELEMENTS AND FEATURES



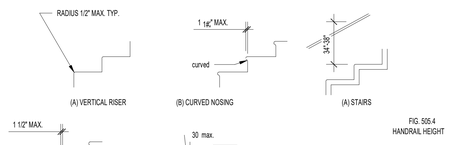
(A) WALL ALARM (B) WALL ALARM WITH SMOKE DETECTOR

FIG. 702.3.3.1
LOCATION OF WALL-MOUNTED APPLIANCES

FIG. 702.3.3.2
LOCATION OF CEILING-MOUNTED APPLIANCES

FIG. 703.2.4.4
CHARACTER HEIGHT

FIG. 703.2.8
MOUNTING LOCATION AT DOORS

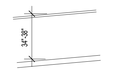


(A) VERTICAL RISER (B) CURVED NOSING (A) STAIRS

FIG. 504.5
STAIR NOSINGS

(C) BEVELED NOSING (D) ANGLED RISER (A) CIRCULAR (B) NON-CIRCULAR

FIG. 505.7
HANDRAIL CROSS SECTION



(B) RAMPS

FIG. 505.4
HANDRAIL HEIGHT

FIG. 505.5
HANDRAIL CLEARANCE

FIG. 505.10.2
TOP HANDRAIL EXTENSIONS AT STAIRS

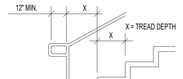


FIG. 505.10.2
BOTTOM HANDRAIL EXTENSIONS AT STAIRS

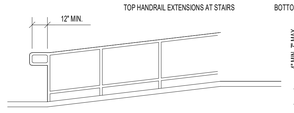


FIG. 505.10.1
TOP AND BOTTOM HANDRAIL EXTENSIONS AT RAMPS

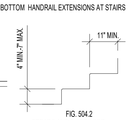
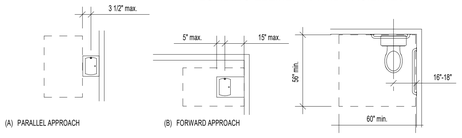


FIG. 504.2
TREADS AND RISERS FOR ACCESSIBLE STAIRWAYS

PLUMBING ELEMENTS AND FACILITIES



(A) PARALLEL APPROACH (B) FORWARD APPROACH

FIG. 602.5
DRINKING FOUNTAIN SPOUT LOCATION

FIG. 604.2/604.3.1
WATER CLOSET LOCATION/ SIZE CLEARANCE

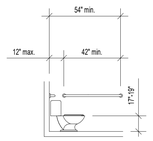


FIG. 604.4/604.5.1
HEIGHT OF WATER CLOSET/ SIDE WALL GRAB BAR FOR WATER CLOSET

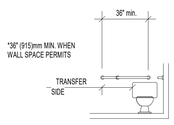


FIG. 604.5.2
REAR WALL GRAB BAR FOR WATER CLOSET

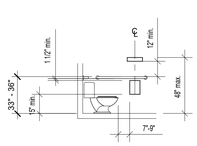
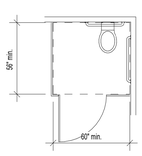
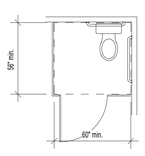


FIG. 604.7
DISPENSER LOCATION



(A) WALL-HUNG WATER CLOSET



(B) FLOOR-MOUNTED WATER CLOSET

FIG. 604.1.1
WHEELCHAIR ACCESSIBLE TOILET COMPARTMENTS

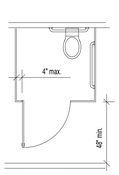
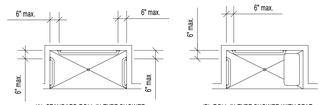


FIG. 604.8.3
TOILET COMPARTMENT DOORS

FIG. 606.3
HEIGHT OF LAVATORIES AND SINKS



(A) STANDARD ROLL-IN-TYPE SHOWER (B) ROLL-IN-TYPE SHOWER WITH SEAT (C) GRAB BARS IN ROLL-IN-TYPE SHOWERS

FIG. 608.3.2
GRAB BARS IN ROLL-IN-TYPE SHOWERS

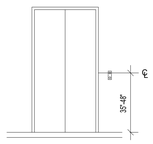


FIG. 407.2.2
ELEVATOR CALL BUTTONS

PROTRUDING OBJECTS

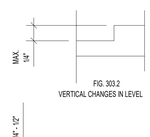


FIG. 303.2
VERTICAL CHANGES IN LEVEL

FIG. 303.3
BEVELED CHANGES IN LEVEL

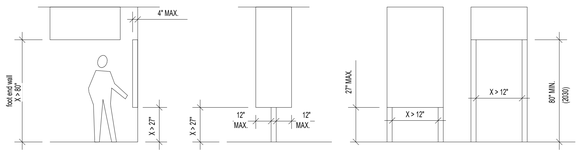


FIG. 307.2
LIMITS OF PROTRUDING OBJECTS

FIG. 307.3
POST-MOUNTED PROTRUDING OBJECTS

ACCESSIBLE ROUTES

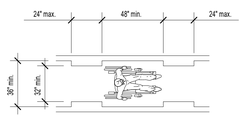


FIG. 403.5
CLEAR WIDTH OF AN ACCESSIBLE ROUTE

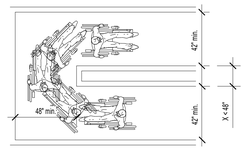
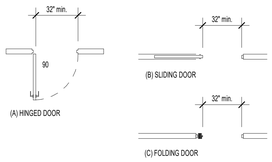


FIG. 403.5.1
CLEAR WIDTH AT TURN



(A) HINGED DOOR (B) SLIDING DOOR (C) FOLDING DOOR

FIG. 404.2.3
CLEAR WIDTH OF DOORWAYS

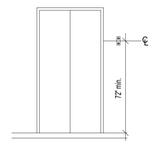


FIG. 407.2.3.2.1
HEIGHT OF ELEVATOR VISIBLE SIGNALS

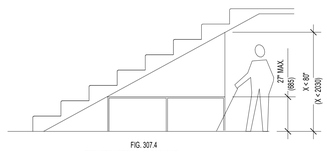


FIG. 307.4
REDUCED VERTICAL CLEARANCE

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
DRAWN BY: 1 ARCH

DRAWINGS FOR:
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Atlanta, GA 30305

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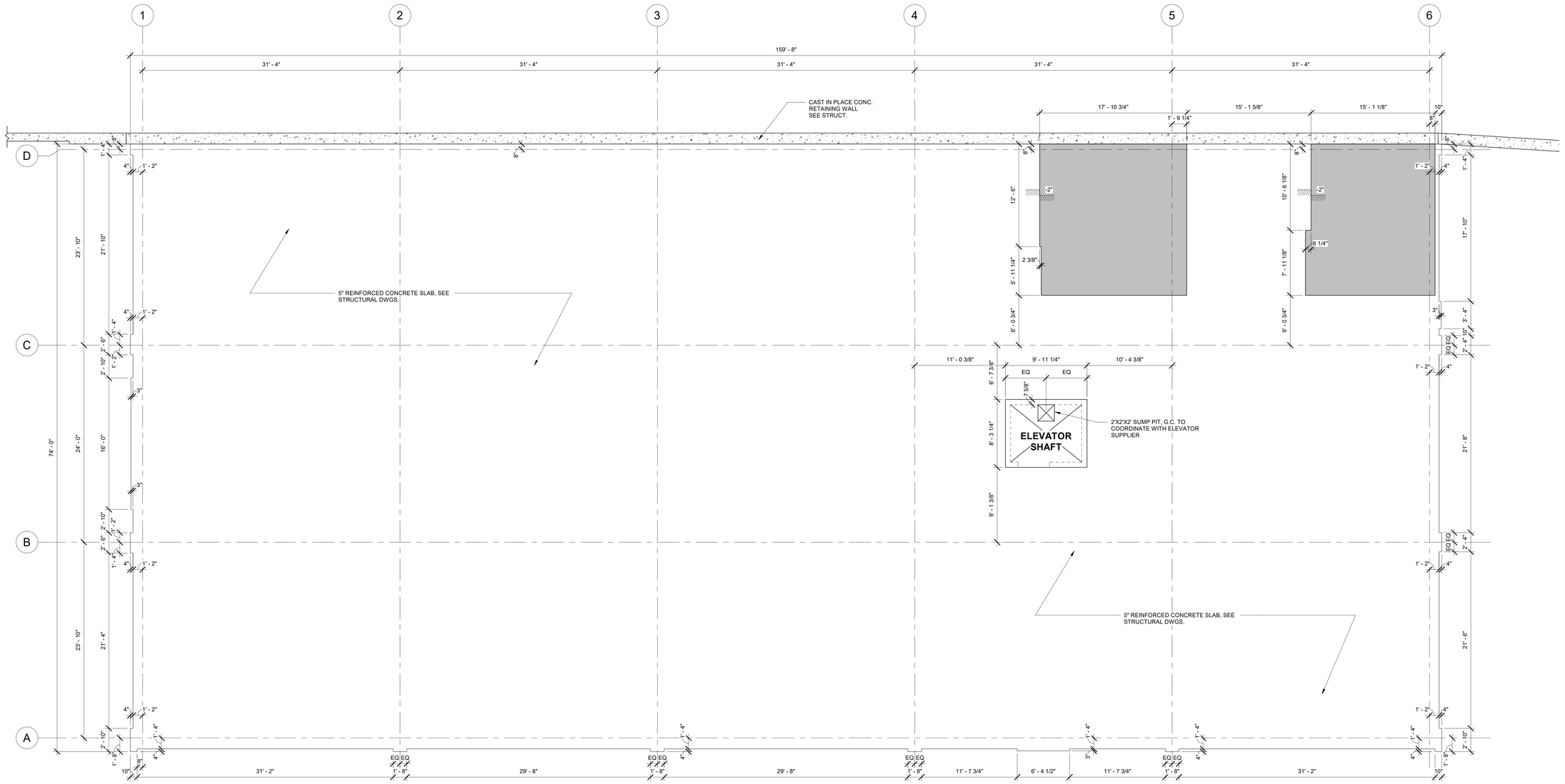
STATE OF GEORGIA
ROBERT A. ZAPPOLLA
CERTIFICATE NO. RA017172
REGISTERED ARCHITECT

PROJECT #: O-2002

ADA DETAILS

A-0.05



1 LEVEL 1 EOS PLAN

SCALE 3/16" = 1'-0"

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

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DRAWN BY: 1 ARCH

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STATE OF GEORGIA
ROBERT A. ZAPOLLA
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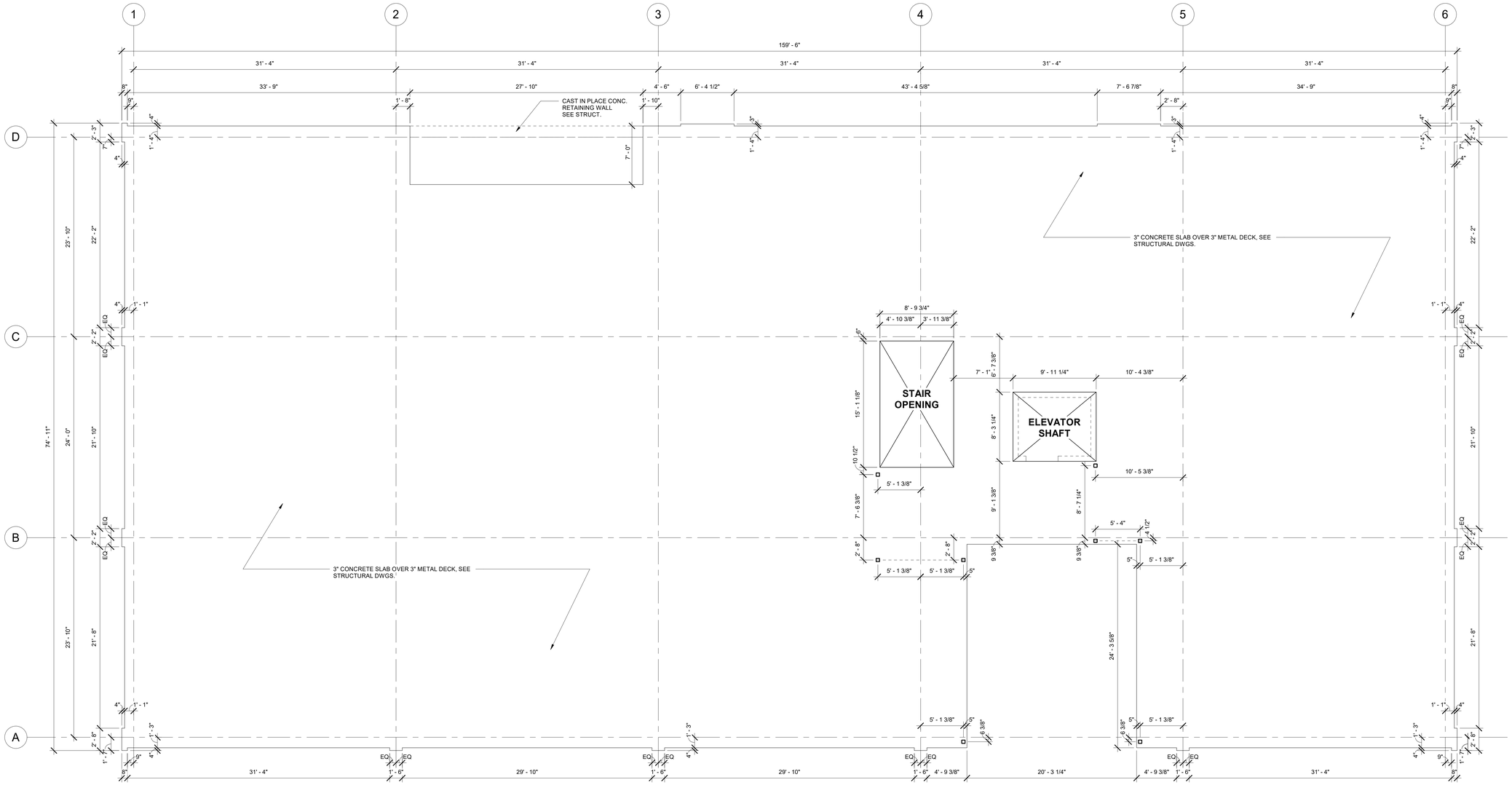
REGISTERED ARCHITECT

PROJECT #: O-2002

LEVEL 1 EOS PLAN

A-1.01



1 LEVEL 2 EOS PLAN

SCALE 3/16" = 1'-0"

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

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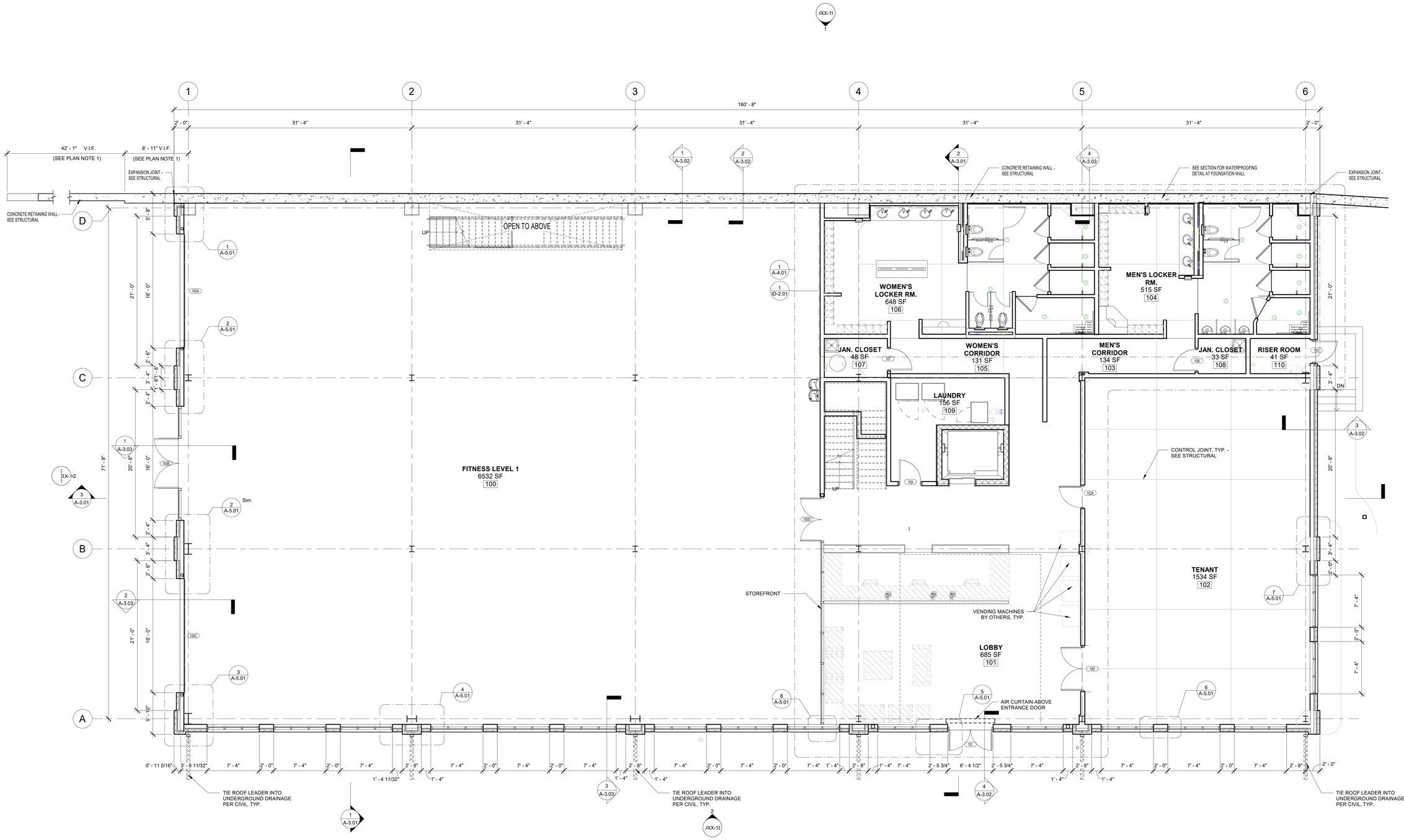
STATE OF GEORGIA
ROBERT A. ZAPPOLLA
CERTIFICATE NO. RA017172
REGISTERED ARCHITECT

PROJECT #: O-2002

LEVEL 2 EOS PLAN

A-1.02



1 LEVEL 1 FLOOR PLAN

SCALE 3/16" = 1'-0"

PLAN NOTES

SHOWN FOR DESIGN INTENT ONLY. GC TO FOLLOW REQUIREMENTS BY STRUCTURAL, COORDINATED WITH CIVIL AND V.I.F. AS REQUIRED.

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
DRAWN BY: 1 ARCH

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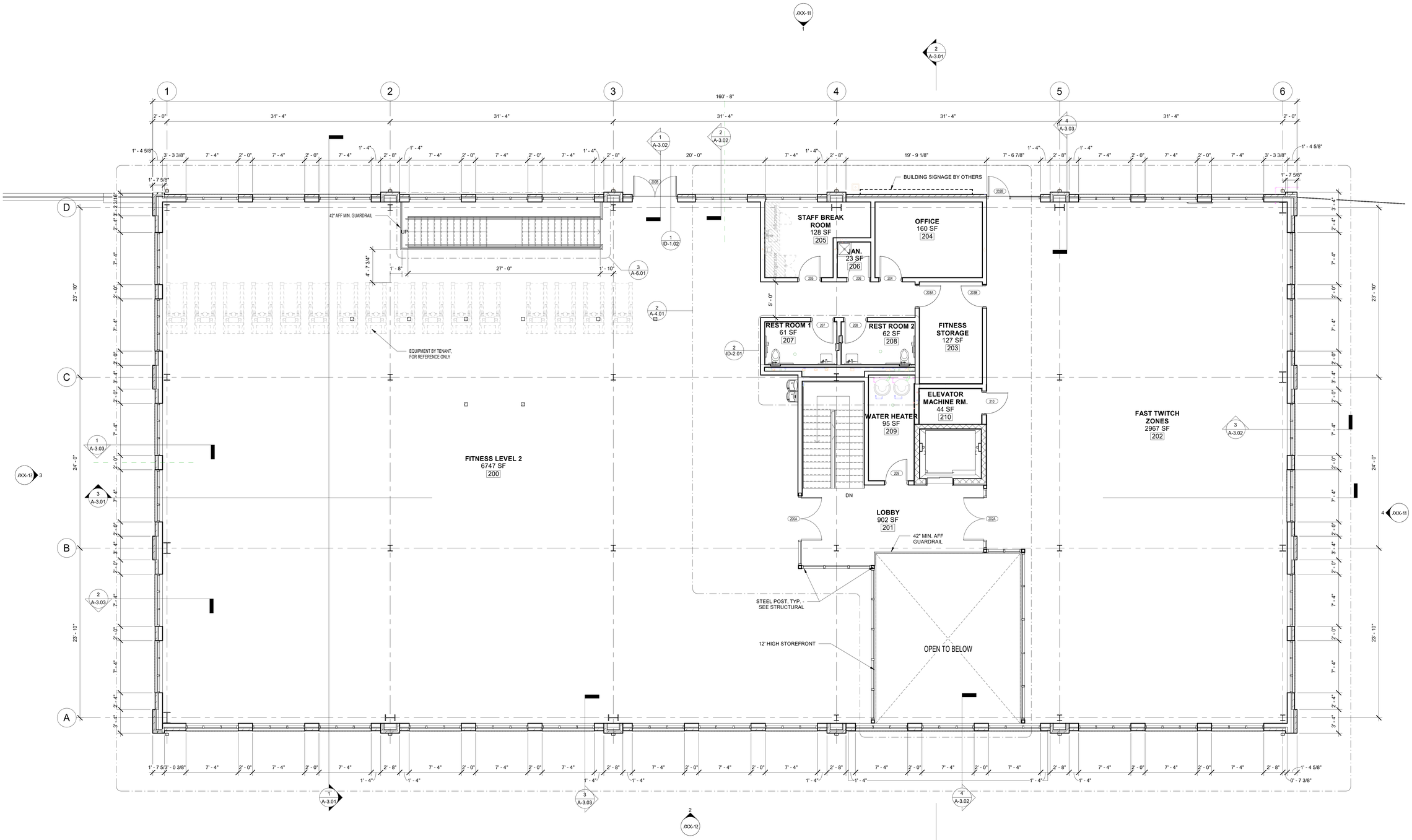
ROBERT J. ZAPPOLLA
CERTIFICATE NO. 040772
REGISTERED ARCHITECT

PROJECT #: O-2002

LEVEL 1 FLOOR PLAN

A-1.11



1 LEVEL 2 FLOOR PLAN

SCALE 3/16" = 1'-0"

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
DRAWN BY: 1 ARCH

DRAWINGS FOR:
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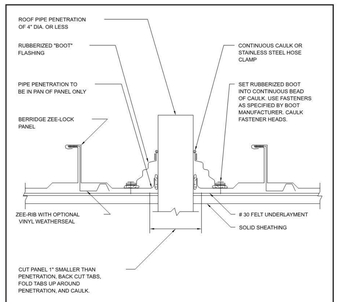
STATE OF GEORGIA
ROBERT J. ZAPPOLLA
CERTIFICATE NO. 040777
REGISTERED ARCHITECT

PROJECT #: O-2002

LEVEL 2 FLOOR PLAN

A-1.12



1. CUT HOLE TO ALLOW FOR THERMAL MOVEMENT IF PANELS ARE 30'-0" OR LONGER.
2. IF PIPE IS MADE OF METAL, IT MUST BE PAINTED TO PREVENT RUST RUN-OFF FROM STAINING PANELS.
3. POSITION SQUARE BASED BOOTS IN A DIAMOND ORIENTATION WHERE POSSIBLE TO AID IN DIVERTING WATER.

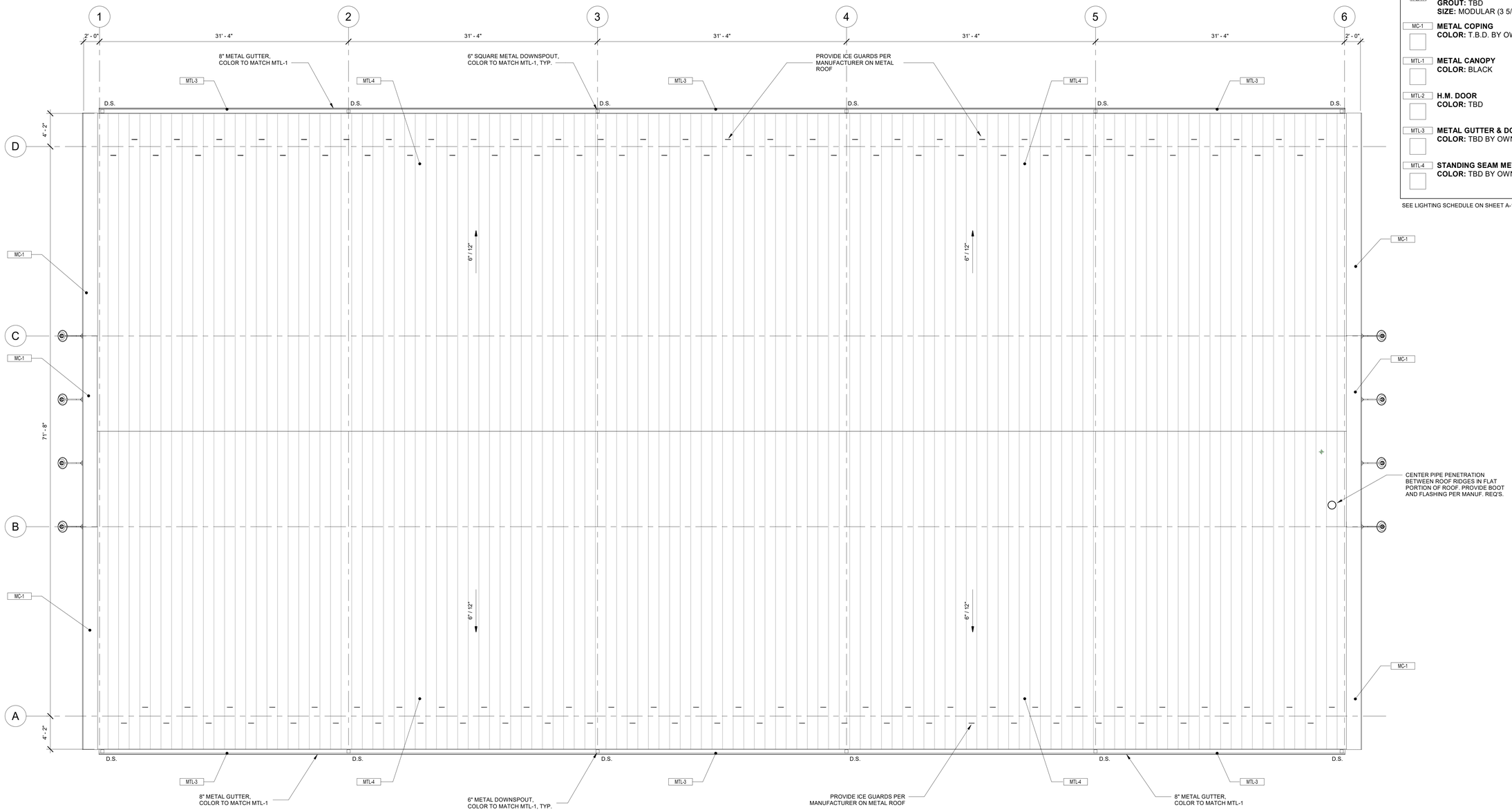
BERRIDGE MANUFACTURING COMPANY Right of Distinction	PIPE PENETRATION (PREFERRED METHOD) IN PAN OF PANEL ONLY OPEN FRAMING AND SOLID SUBSTRATE	DATE: 04-01-97
	Zee-Lock Panel	PAGE/FILE Z-80

MATERIAL LEGEND

- AL-1 — **ALUM.-CLAD WOOD FIXED-FRAME WINDOW SYSTEM**
  OUTBOARD LITE:
  INBOARD LITE:
- AL-2 — **ALUM. STOREFRONT SYSTEM**
  MULLION FINISH: URBAN BRONZE
  OUTBOARD LITE:
  INBOARD LITE:
- AL-3 — **ALUM. OVERHEAD DOOR**
  OUTBOARD LITE:
  INBOARD LITE:
- BRK-1 — **BRICK VENEER SYSTEM**
  COLOR: WHITE
  GROUT: TBD
  SIZE: MODULAR (3 5/8" X 2 1/4" X 7 5/8")
- BRK-2 — **BRICK VENEER - ROWLOCK COURSE**
  COLOR: WHITE
  GROUT: TBD
  SIZE: MODULAR (3 5/8" X 2 1/4" X 7 5/8")
- BRK-3 — **BRICK VENEER - SOLDIER COURSE**
  COLOR: WHITE
  GROUT: TBD
  SIZE: MODULAR (3 5/8" X 2 1/4" X 7 5/8")
- BRK-4 — **BRICK VENEER - HERRINGBONE COURSE**
  COLOR: WHITE
  GROUT: TBD
  SIZE: MODULAR (3 5/8" X 2 1/4" X 7 5/8")
- MC-1 — **METAL COPING**
  COLOR: T.B.D. BY OWNER
- MTL-1 — **METAL CANOPY**
  COLOR: BLACK
- MTL-2 — **H.M. DOOR**
  COLOR: TBD
- MTL-3 — **METAL GUTTER & DOWNSPOUTS**
  COLOR: TBD BY OWNER
- MTL-4 — **STANDING SEAM METAL ROOF**
  COLOR: TBD BY OWNER

SEE LIGHTING SCHEDULE ON SHEET A-1.21 AND A-2.02

/XX-11



/XX-12

1 ROOF PLAN

SCALE 3/16" = 1'-0"

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
DRAWN BY: 1 ARCH

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ROBERT A. ZAPPOLLA
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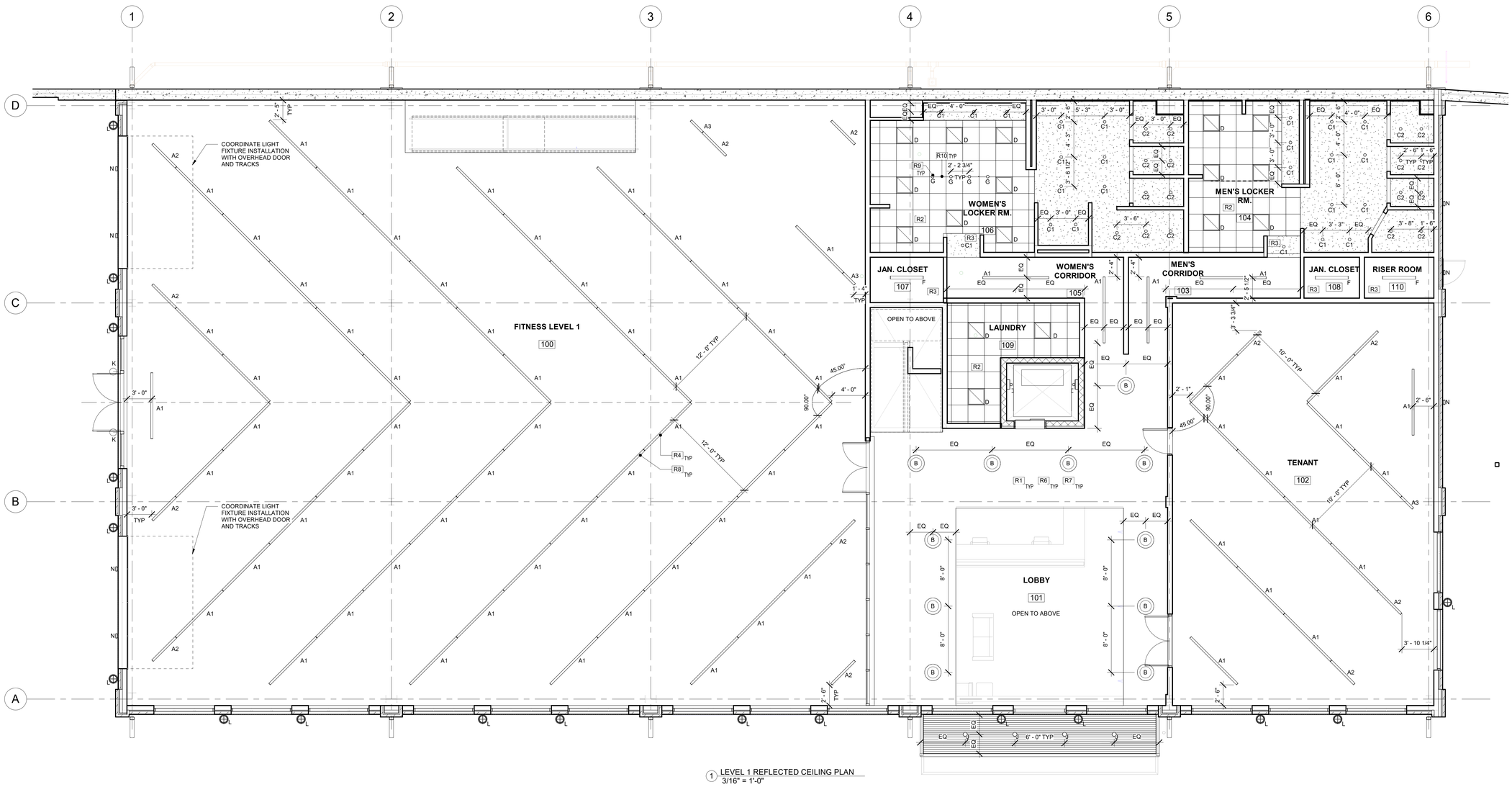
REGISTERED ARCHITECT

PROJECT #: O-2002

ROOF PLAN

A-1.13



1 LEVEL 1 REFLECTED CEILING PLAN
3/16" = 1'-0"

LIGHTING FIXTURE SCHEDULE

LABEL	CATALOG NUMBER	DESCRIPTION	MANUFACTURER	BOTTOM OF FIXTURE HEIGHT	NOTES
A1	MPS-8-40-XW-C-W-ED-U	MULTIPURPOSE LINEAR	COLUMBIA LIGHTING	10' AFF	CONTINUOUS ROW MOUNT KIT CURVE; THRU-WIRING; RIGID MOUNTING
A2	MPS-4-40-XW-C-W-ED-U	MULTIPURPOSE LINEAR	COLUMBIA LIGHTING	10' AFF	CONTINUOUS ROW MOUNT KIT CURVE; THRU-WIRING; RIGID MOUNTING
A3	MPS-2-40-XW-C-W-ED-U	MULTIPURPOSE LINEAR	COLUMBIA LIGHTING	10' AFF	CONTINUOUS ROW MOUNT KIT CURVE; THRU-WIRING; RIGID MOUNTING
B	MLPT-D-V-D-30-83-40-51-N-CG-GW-BK-MP	MODO TORO LARGE PENDANT	ALW	10' AFF 1ST LEVEL 12' AFF 2ND LEVEL	CONTRACTOR TO PROVIDE RIGID MOUNTING
C1	NU4-RD-SW-13LM-40K-80-NL-120-DIM10-NC-WH-WH	4" ROUND DOWNLIGHT	ALPHABET	SCHEDULED CEILING	
C2	NU4-RD-SW-13LM-40K-80-NL-120-DIM10-NC-WH-WH	4" ROUND DOWNLIGHT - WET LOCATION	ALPHABET	SCHEDULED CEILING	
D	22-FPL1-LED-2000-DIM10-MVOLT-40K-85	2X2 LED FLAT PANEL	ORACLE LIGHTING	SCHEDULED CEILING	
F	*USE EXISTING. NEW TO MATCH EXISTING* LCL-4-40-HL-ED-U	LENSED STRIPLIGHT	COLUMBIA LIGHTING	10' AFF	
G	ELISE LED PENDANT ELEP0407L30D2SN-12W-780-3000K-3-3/4"X12"	PENDANT LIGHT	AFX INC.	57" AFF	
H	RIM CLUSTER MP2491-RIMRP-36/48/60-ULO-LED-90-4500/6000/7500-40-UNV-D1-1-RDB-W-WAC-1C-60IN-W	DECORATIVE 3 RING PENDANT	LUMENWERX	23'-0" AFF	
J	HH6-LED-1500L-DIM10-120-WD-40K-90-HH6-6501-CL-WH	6" LED DOWNLIGHT - WET LOCATION	MAXILUME BY ELITE LIGHTING	SCHEDULED CEILING	
K	*USE EXISTING. NEW TO MATCH EXISTING* AT18-22P-LED21W.WM14.22P	WALL MOUNT GOOSENECK	BASELITE		
L	*USE EXISTING. NEW TO MATCH EXISTING* W1FRWG48	WALL MOUNT VAPOR LIGHT	BASELITE		
M	K2-52-E32-12W	WALL MOUNTED SIGN LIGHT	BASELITE		
N	*USE EXISTING. NEW TO MATCH EXISTING* SG1-30-4K7-FT-UNV-DB	WALL PACK	HUBBLE LIGHTING		
P	DELTA10 680PB-CIT-120LM-40K-80-PF22-DIM10-7422FR	HIGH BAY	ALPHABET	15' AFF	

REFLECTED CEILING PLAN KEYNOTES

KEY VALUE	KEYNOTE TEXT
R1	EXPOSED CEILING. AREAS NOT RECEIVING ACT OR GWB ARE TO REMAIN EXPOSED. CLEAN AND FOG HORIZONTAL SURFACES OF CEILING AND EXPOSED CEILING COMPONENTS TO REMAIN THROUGHOUT. TOP OFF NEW PARTITIONS TO STRUCTURE ABOVE WHERE PLENUM IS EXPOSED. ADD NEW CONCENTRIC GRILLS/DIFFUSERS WHERE APPLICABLE IN OPEN CEILING. MODIFY SPRINKLER HEADS AS REQUIRED BY CODE. BAG CONTROLS ON TERMINAL UNITS DURING CEILING FOGGING TO PROTECT DEVICES FROM BEING PAINTED. SEE SYMBOL LEGEND.
R2	NEW 2'X2' CEILING GRID AND TILES. PROVIDE NEW CEILING GRID AND TILE WHERE INDICATED BY HATCH. SPECIFICATION: ARMSTRONG ULTIMA LAY-IN AND TEGULAR: 1895 SQUARE, BEVELED TEGULAR 9/16
R3	CENTER LIGHT. CONTRACTOR TO CENTER LIGHT WITHIN SOFFIT/CEILING/SPACE WHERE INDICATED.
R4	CONTINUOUS RUN. CONTRACTOR TO INSTALL LINEAR LEDS IN A CONTINUOUS RUN WITH THRU-WIRING AND MANUFACTURER CONNECTORS.
R6	EXPOSED CONDUITS. ALL CONDUIT RUNS ARE TO BE INSTALLED PARALLEL OR PERPENDICULAR TO THE EXPOSED STRUCTURE. ALL BENDS TO BE AT OR NEAR 90 DEGREES.
R7	EXPOSED CEILING WIRING. NO WIRES INCLUDING CONTROL WIRES SUCH AS FIRE ALARM WIRES ARE TO BE LEFT LOOSE AND DRAPED. ALL WIRES ARE TO BE IN CONDUIT AND NEATLY INSTALLED AS DICTATED. STUB OUTS IN WALLS BETWEEN OPEN AND CLOSED CEILINGS ARE TO BE MADE AT JOIST LINES AND NOT IN RANDOM LOCATIONS AT WALLS.
R8	RIGID CONDUIT. CONTRACTOR TO DROP RIGID CONDUIT AND MOUNT J-BOX BELOW TO MOUNT FIXTURE WITH FACTORY STANDARD CABLES TO PREVENT FIXTURE FROM SWAYING DUE TO THE HVAC SYSTEM.
R9	PENDANT LIGHTS. CONTRACTOR TO MOUNT PENDANT LIGHTS IN WOMEN'S LOCKER ROOM CENTERED BETWEEN CEILING HUNG MIRRORS AND EQUALLY SPACED ON THE ENDS.
R10	CEILING HUNG MIRRORS. CONTRACTOR TO PROVIDE FIRE RATED BLOCKING IN CEILING ABOVE TO MOUNT CEILING HUNG MIRRORS.

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
DRAWN BY: 1 ARCH

DRAWINGS FOR:
Roca Point Partners
309 East Paces Ferry Road
Suite 825
Atlanta, GA 30305

THE FORUM ATHLETIC CLUB

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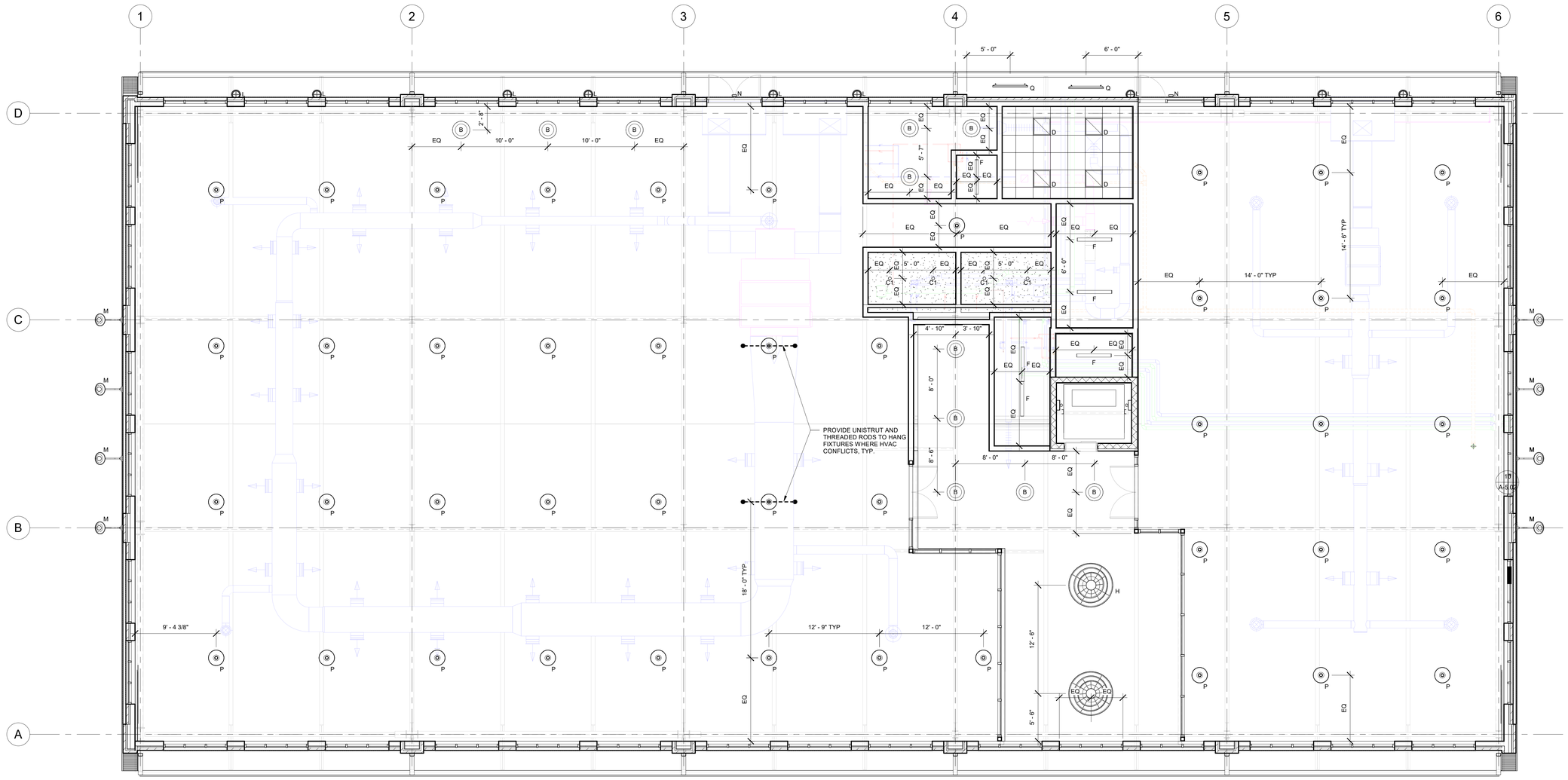
Architects & Interiors
74 WOODSTOCK ROAD, ROSWELL, GA. 30075
(770) 642-9030 info@akastudiopc.com

STATE OF GEORGIA
ROBERT A. ZAPPOLLA
CERTIFICATE NO. 000172
REGISTERED ARCHITECT

PROJECT #: O-2002

LEVEL 1 REFLECTED CEILING PLAN

A-1.21



1 LEVEL 2 REFLECTED CEILING PLAN
3/16" = 1'-0"

LIGHTING FIXTURE SCHEDULE

LABEL	CATALOG NUMBER	DESCRIPTION	MANUFACTURER	BOTTOM OF FIXTURE HEIGHT	NOTES
A1	MPS-8-40-XW-C-W-ED-U	MULTIPURPOSE LINEAR	COLUMBIA LIGHTING	10' AFF	CONTINUOUS ROW MOUNT KIT CURVE; THRU-WIRING; RIGID MOUNTING
A2	MPS-4-40-XW-C-W-ED-U	MULTIPURPOSE LINEAR	COLUMBIA LIGHTING	10' AFF	CONTINUOUS ROW MOUNT KIT CURVE; THRU-WIRING; RIGID MOUNTING
A3	MPS-2-40-XW-C-W-ED-U	MULTIPURPOSE LINEAR	COLUMBIA LIGHTING	10' AFF	CONTINUOUS ROW MOUNT KIT CURVE; THRU-WIRING; RIGID MOUNTING
B	MLPT-D-V-D-30-83-40-51-N-CG-GW-BK-MP	MODO TORO LARGE PENDANT	ALW	10' AFF 1ST LEVEL 12' AFF 2ND LEVEL	CONTRACTOR TO PROVIDE RIGID MOUNTING
C1	NU4-RD-SW-13LM-40K-80-NL-120-DIM10-NC-WH-WH	4" ROUND DOWNLIGHT	ALPHABET	SCHEDULED CEILING	
C2	NU4-RD-SW-13LM-40K-80-NL-120-DIM10-NC-WH-WH	4" ROUND DOWNLIGHT - WET LOCATION	ALPHABET	SCHEDULED CEILING	
D	22-FPL1-LED-2000-DIM10-MVOLT-40K-85	2X2 LED FLAT PANEL	ORACLE LIGHTING	SCHEDULED CEILING	
F	*USE EXISTING. NEW TO MATCH EXISTING* LCL-4-40-HL-ED-U	LENSED STRIPLIGHT	COLUMBIA LIGHTING	10' AFF	
G	ELISE LED PENDANT ELEP0407L30D2SN-12W-780-3000K-3-3/4"X12"	PENDANT LIGHT	AFX INC.	57" AFF	
H	RIM CLUSTER MP2491-RIMRP-36/48/60-ULO-LED-90-4500/6000/7500-40-UNV-D1-1-RDB-W-WAC-1C-60IN-W	DECORATIVE 3 RING PENDANT	LUMENWERX	23'-0" AFF	
J	HH6-LED-1500L-DIM10-120-WD-40K-90-HH6-6501-CL-WH	6" LED DOWNLIGHT - WET LOCATION	MAXILUME BY ELITE LIGHTING	SCHEDULED CEILING	
K	*USE EXISTING. NEW TO MATCH EXISTING* AT18-22P-LED21W.WM14.22P	WALL MOUNT GOOSENECK	BASELITE		
L	*USE EXISTING. NEW TO MATCH EXISTING* W1FRWG48	WALL MOUNT VAPOR LIGHT	BASELITE		
M	K2-52-E32-12W	WALL MOUNTED SIGN LIGHT	BASELITE		
N	*USE EXISTING. NEW TO MATCH EXISTING* SG1-30-4K7-FT-UNV-DB	WALL PACK	HUBBLE LIGHTING		
P	DELTA10 680PB-CIT-120LM-40K-80-PF22-DIM10-7422FR	HIGH BAY	ALPHABET	15' AFF	

REFLECTED CEILING PLAN KEYNOTES

KEY VALUE	KEYNOTE TEXT
R1	EXPOSED CEILING. AREAS NOT RECEIVING ACT OR GWB ARE TO REMAIN EXPOSED. CLEAN AND FOG HORIZONTAL SURFACES OF CEILING AND EXPOSED CEILING COMPONENTS TO REMAIN THROUGHOUT. TOP OFF NEW PARTITIONS TO STRUCTURE ABOVE WHERE PLENUM IS EXPOSED. ADD NEW CONCENTRIC GRILLS/DIFFUSERS WHERE APPLICABLE IN OPEN CEILING. MODIFY SPRINKLER HEADS AS REQUIRED BY CODE. BAG CONTROLS ON TERMINAL UNITS DURING CEILING FOGGING TO PROTECT DEVICES FROM BEING PAINTED. SEE SYMBOL LEGEND.
R2	NEW 2'X2' CEILING GRID AND TILES. PROVIDE NEW CEILING GRID AND TILE WHERE INDICATED BY HATCH. SPECIFICATION: ARMSTRONG ULTIMA LAY-IN AND TEGULAR: 1895 SQUARE, BEVELED TEGULAR 9/16
R3	CENTER LIGHT. CONTRACTOR TO CENTER LIGHT WITHIN SOFFIT/CEILING/SPACE WHERE INDICATED.
R4	CONTINUOUS RUN. CONTRACTOR TO INSTALL LINEAR LEDS IN A CONTINUOUS RUN WITH THRU-WIRING AND MANUFACTURER CONNECTORS.
R6	EXPOSED CONDUITS. ALL CONDUIT RUNS ARE TO BE INSTALLED PARALLEL OR PERPENDICULAR TO THE EXPOSED STRUCTURE. ALL BENDS TO BE AT OR NEAR 90 DEGREES.
R7	EXPOSED CEILING WIRING. NO WIRES INCLUDING CONTROL WIRES SUCH AS FIRE ALARM WIRES ARE TO BE LEFT LOOSE AND DRAPED. ALL WIRES ARE TO BE IN CONDUIT AND NEATLY INSTALLED AS DICTATED. STUB OUTS IN WALLS BETWEEN OPEN AND CLOSED CEILINGS ARE TO BE MADE AT JOIST LINES AND NOT IN RANDOM LOCATIONS AT WALLS.
R8	RIGID CONDUIT. CONTRACTOR TO DROP RIGID CONDUIT AND MOUNT J-BOX BELOW TO MOUNT FIXTURE WITH FACTORY STANDARD CABLES TO PREVENT FIXTURE FROM SWAYING DUE TO THE HVAC SYSTEM.
R9	PENDANT LIGHTS. CONTRACTOR TO MOUNT PENDANT LIGHTS IN WOMEN'S LOCKER ROOM CENTERED BETWEEN CEILING HUNG MIRRORS AND EQUALLY SPACED ON THE ENDS.
R10	CEILING HUNG MIRRORS. CONTRACTOR TO PROVIDE FIRE RATED BLOCKING IN CEILING ABOVE TO MOUNT CEILING HUNG MIRRORS.

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
DRAWN BY: 1 ARCH

DRAWINGS FOR:
Roca Point Partners
309 East Paces Ferry Road
Suite 825
Atlanta, GA 30305

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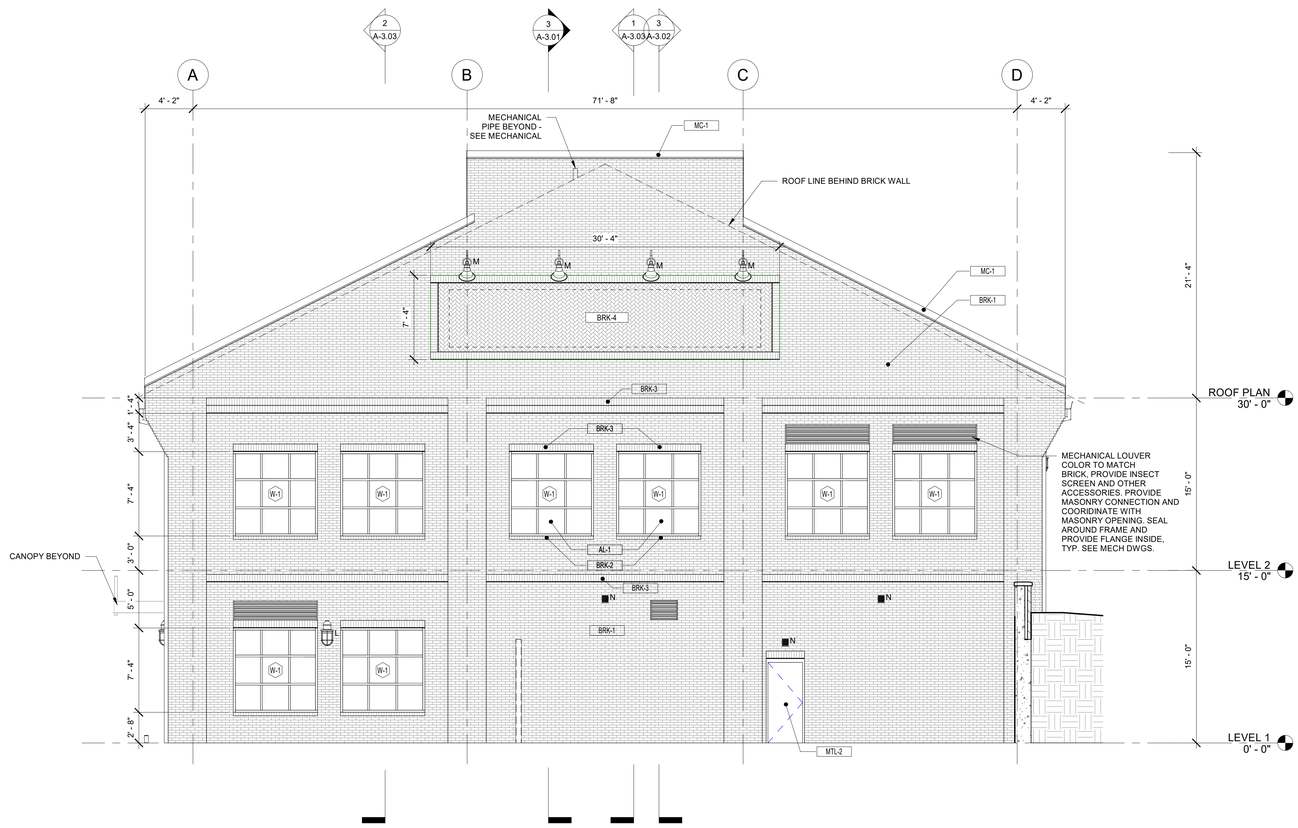
STATE OF GEORGIA
ROBERT A. ZAPPOLLA
CERTIFICATE NO. RA017172
REGISTERED ARCHITECT

PROJECT #: O-2002

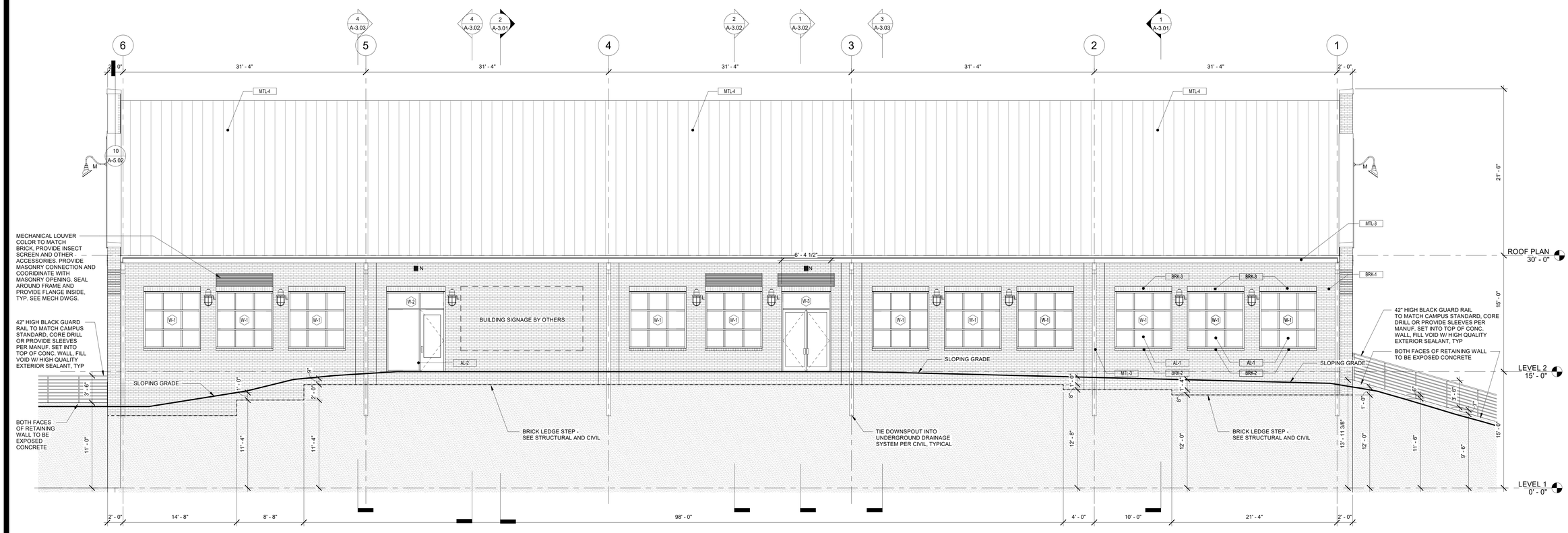
LEVEL 2 REFLECTED CEILING PLAN

A-1.22



1 RIGHT ELEVATION

SCALE 3/16" = 1'-0"



2 BACK ELEVATION

SCALE 3/16" = 1'-0"

MATERIAL LEGEND

AL-1 — **ALUM.-CLAD WOOD FIXED-FRAME WINDOW SYSTEM**
OUTBOARD LITE:
INBOARD LITE:

AL-2 — **ALUM. STOREFRONT SYSTEM**
MULLION FINISH: URBAN BRONZE
OUTBOARD LITE:
INBOARD LITE:

AL-3 — **ALUM. OVERHEAD DOOR**
OUTBOARD LITE:
INBOARD LITE:

BRK-1 — **BRICK VENEER SYSTEM**
COLOR: WHITE
GROUT: TBD
SIZE: MODULAR (3 5/8" X 2 1/4" X 7 5/8")

BRK-2 — **BRICK VENEER - ROWLOCK COURSE**
COLOR: WHITE
GROUT: TBD
SIZE: MODULAR (3 5/8" X 2 1/4" X 7 5/8")

BRK-3 — **BRICK VENEER - SOLDIER COURSE**
COLOR: WHITE
GROUT: TBD
SIZE: MODULAR (3 5/8" X 2 1/4" X 7 5/8")

BRK-4 — **BRICK VENEER - HERRINGBONE COURSE**
COLOR: WHITE
GROUT: TBD
SIZE: MODULAR (3 5/8" X 2 1/4" X 7 5/8")

MC-1 — **METAL COPING**
COLOR: T.B.D. BY OWNER

MTL-1 — **METAL CANOPY**
COLOR: BLACK

MTL-2 — **H.M. DOOR**
COLOR: TBD

MTL-3 — **METAL GUTTER & DOWNSPOUTS**
COLOR: TBD BY OWNER

MTL-4 — **STANDING SEAM METAL ROOF**
COLOR: TBD BY OWNER

SEE LIGHTING SCHEDULE ON SHEET A-1.21 AND A-2.02

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
DRAWN BY: 1 ARCH

DRAWINGS FOR:
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Atlanta, GA 30305

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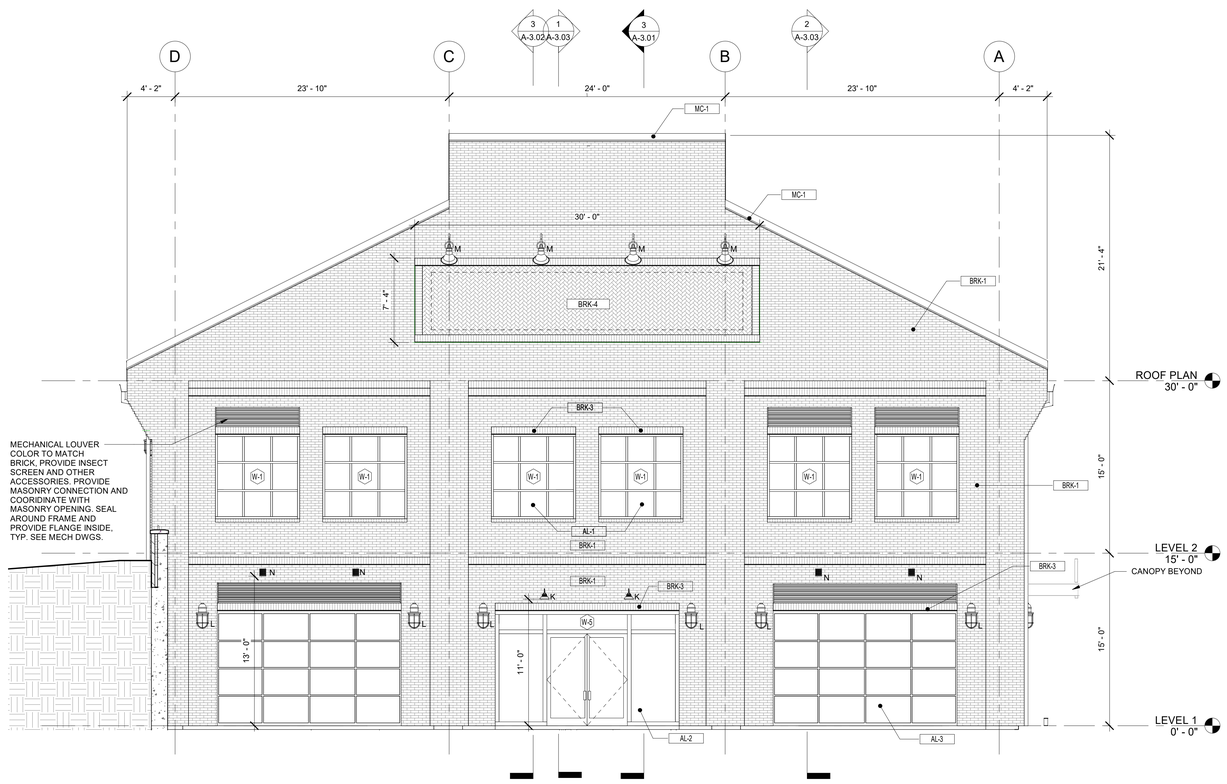
STATE OF GEORGIA
ROBERT A. ZAPPOLLA
CERTIFICATE NO. RA017172
REGISTERED ARCHITECT

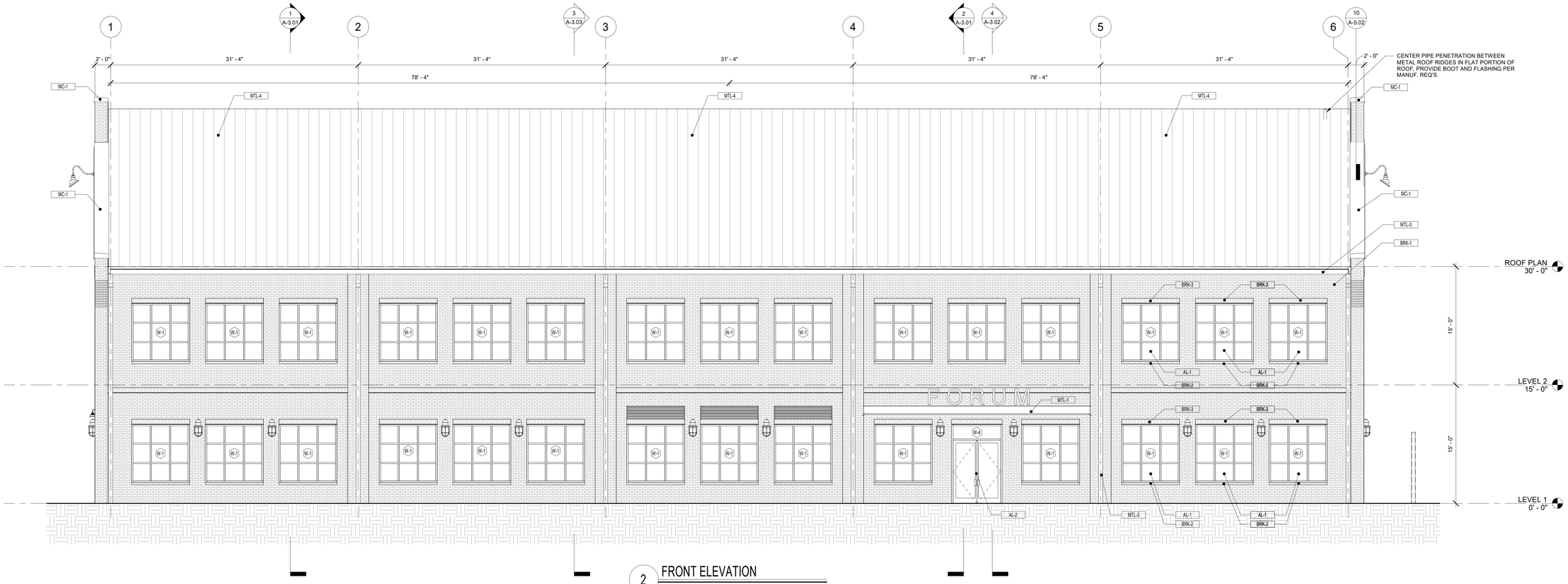
PROJECT #: O-2002

EXTERIOR ELEVATIONS

A-2.01



1 LEFT ELEVATION
SCALE 3/16" = 1'-0"



2 FRONT ELEVATION
SCALE 3/16" = 1'-0"

MATERIAL LEGEND

AL-1 **ALUM.-CLAD WOOD FIXED-FRAME WINDOW SYSTEM**
OUTBOARD LITE:
INBOARD LITE:

AL-2 **ALUM. STOREFRONT SYSTEM**
MULLION FINISH: URBAN BRONZE
OUTBOARD LITE:
INBOARD LITE:

AL-3 **ALUM. OVERHEAD DOOR**
OUTBOARD LITE:
INBOARD LITE:

BRK-1 **BRICK VENEER SYSTEM**
COLOR: WHITE
GROUT: TBD
SIZE: MODULAR (3 5/8" X 2 1/4" X 7 5/8")

BRK-2 **BRICK VENEER - ROWLOCK COURSE**
COLOR: WHITE
GROUT: TBD
SIZE: MODULAR (3 5/8" X 2 1/4" X 7 5/8")

BRK-3 **BRICK VENEER - SOLDIER COURSE**
COLOR: WHITE
GROUT: TBD
SIZE: MODULAR (3 5/8" X 2 1/4" X 7 5/8")

BRK-4 **BRICK VENEER - HERRINGBONE COURSE**
COLOR: WHITE
GROUT: TBD
SIZE: MODULAR (3 5/8" X 2 1/4" X 7 5/8")

MC-1 **METAL COPING**
COLOR: T.B.D. BY OWNER

MTL-1 **METAL CANOPY**
COLOR: BLACK

MTL-2 **H.M. DOOR**
COLOR: TBD

MTL-3 **METAL GUTTER & DOWNSPOUTS**
COLOR: TBD BY OWNER

MTL-4 **STANDING SEAM METAL ROOF**
COLOR: TBD BY OWNER

SEE LIGHTING SCHEDULE ON SHEET A-1.21 AND A-2.02

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
DRAWN BY: 1 ARCH

DRAWINGS FOR:
Roca Point Partners
309 East Paces Ferry Road
Suite 825
Atlanta, GA 30305

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Architects & Interiors
74 WOODSTOCK ROAD,
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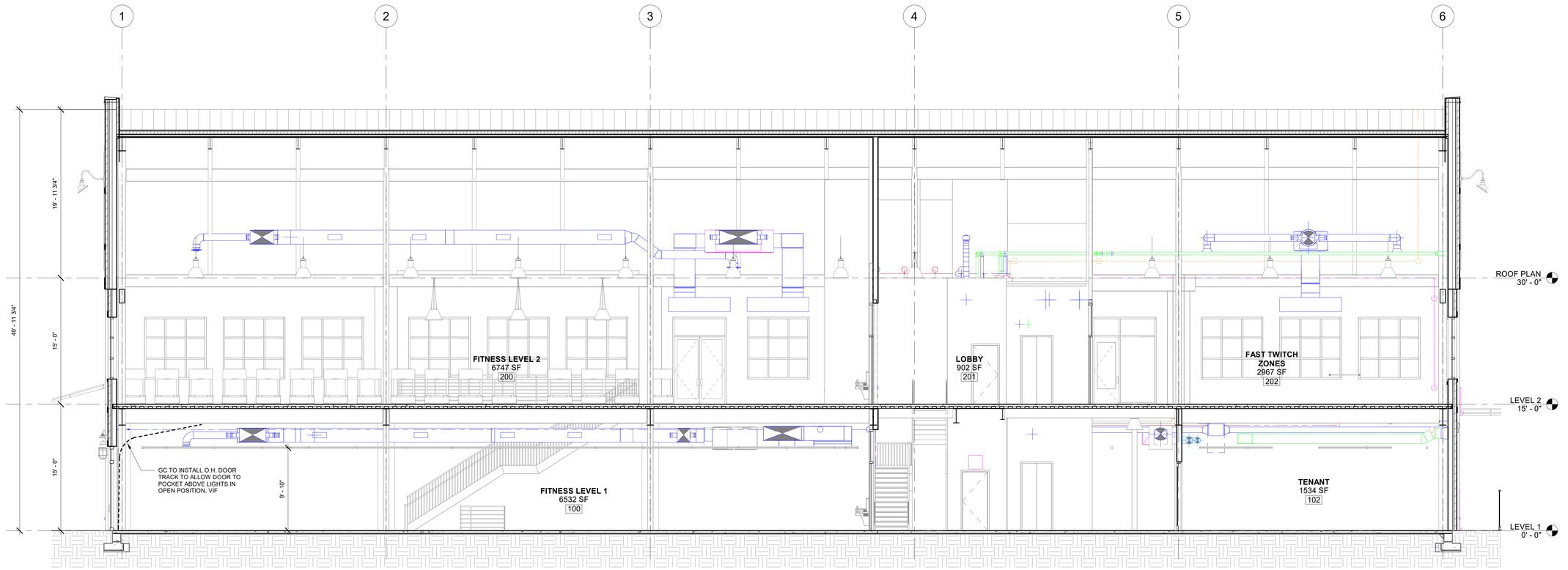
(770) 642-9030 info@akastudiopc.com

STATE OF GEORGIA
ROBERT A. ZAPPELLA
CERTIFICATE NO. 040777
REGISTERED ARCHITECT

PROJECT #: O-2002

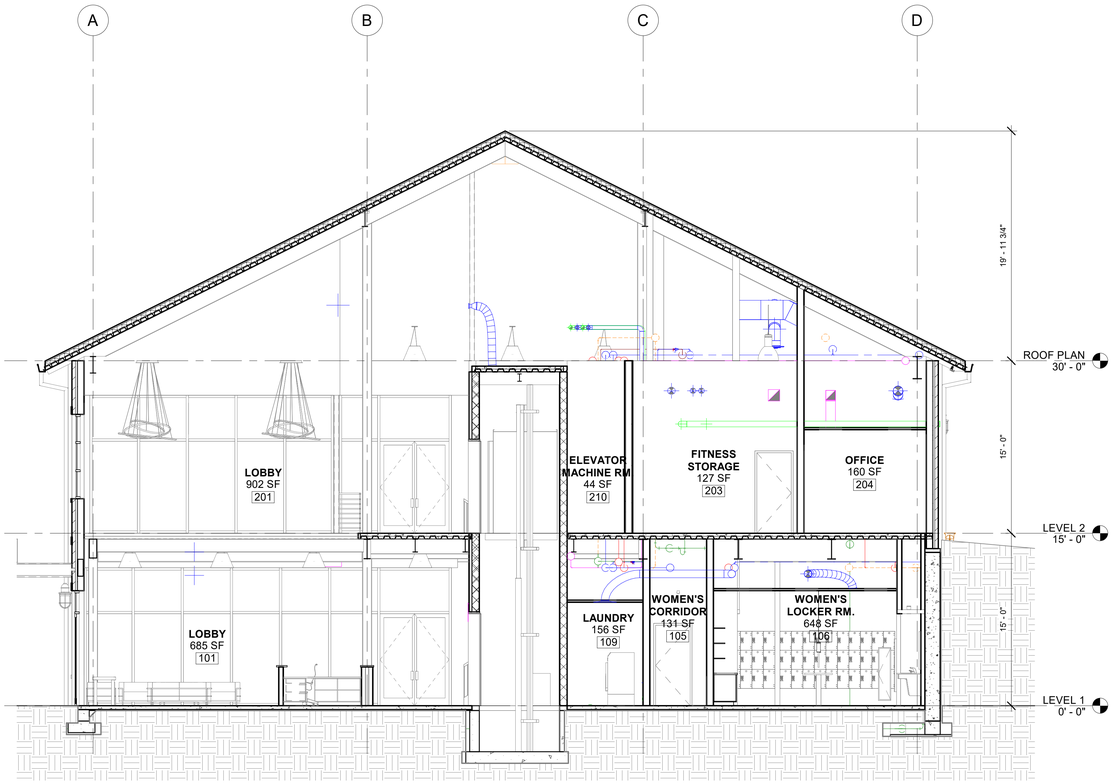
EXTERIOR ELEVATIONS

A-2.02



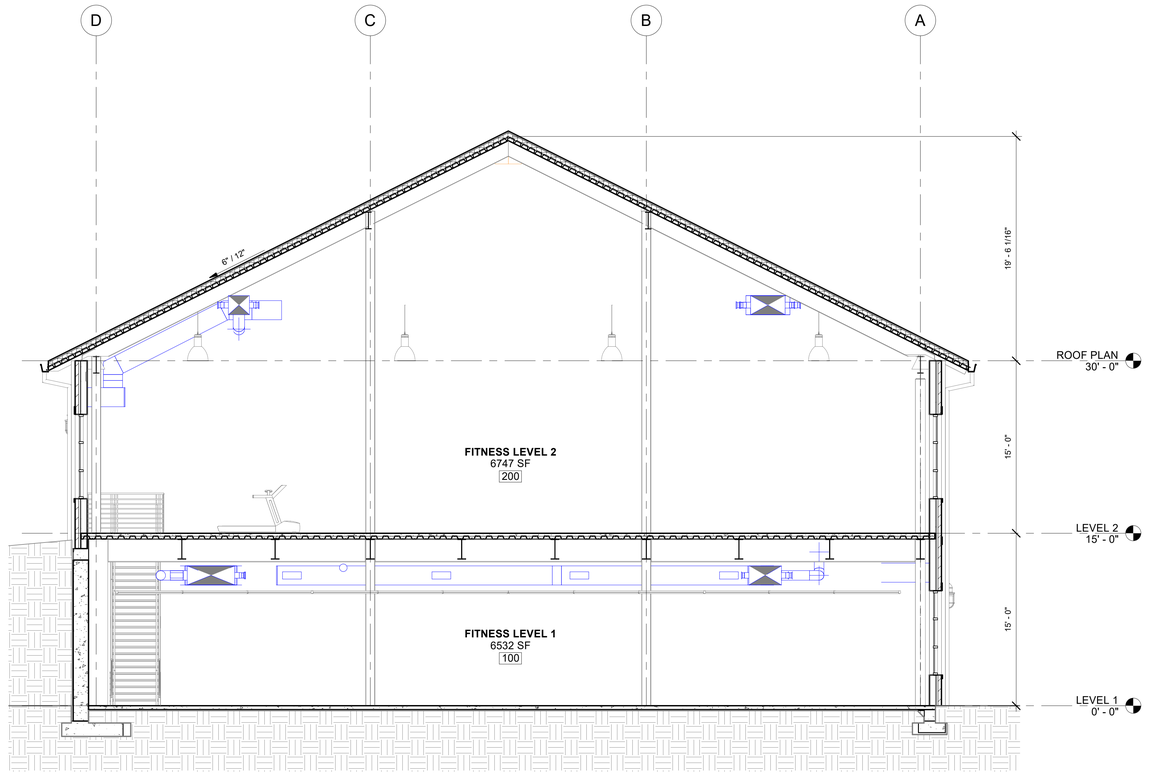
3 BUILDING SECTION

SCALE 3/16" = 1'-0"



2 BUILDING SECTION

SCALE 3/16" = 1'-0"



1 BUILDING SECTION

SCALE 3/16" = 1'-0"

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

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STATE OF GEORGIA
ROBERT A. ZAPPOLLA
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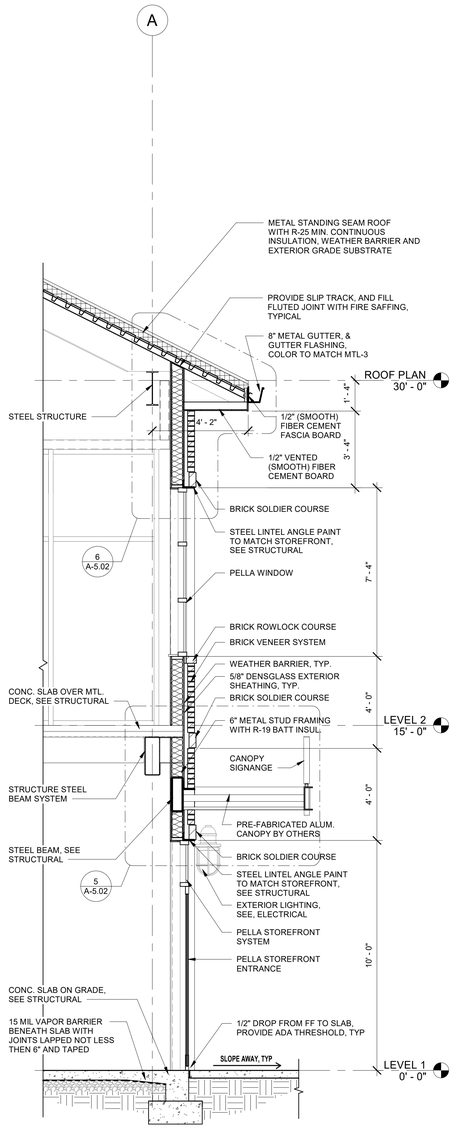
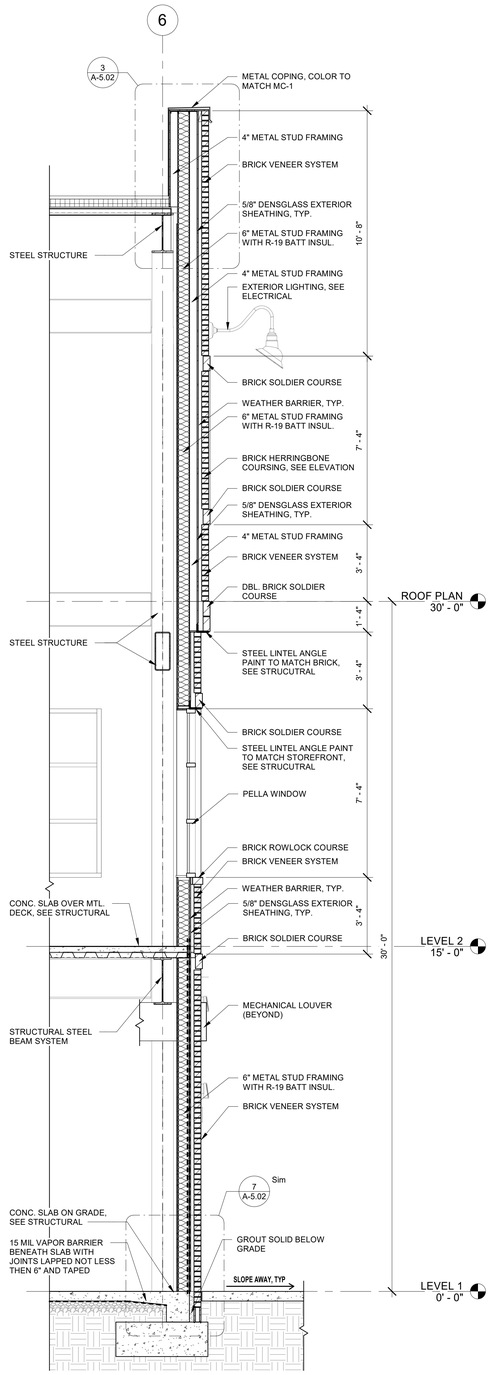
PROJECT #: O-2002

BUILDING SECTIONS

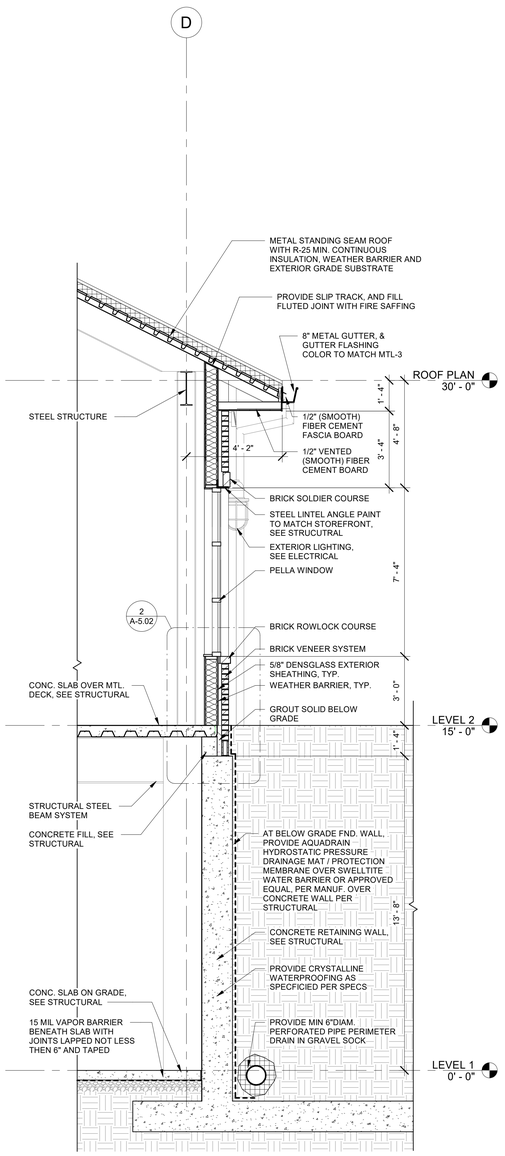
A-3.01



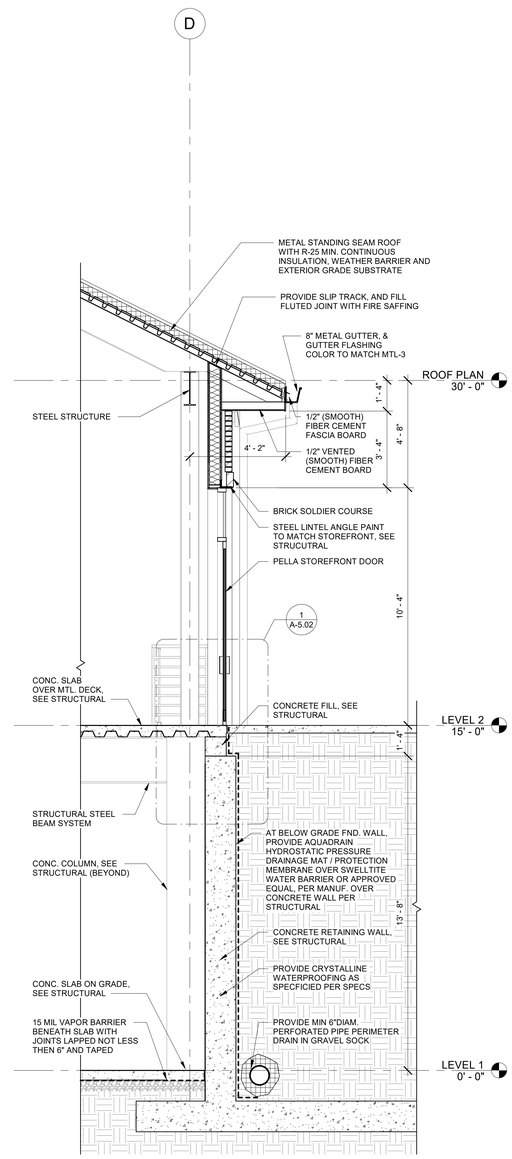
4 WALL SECTION
SCALE 3/8" = 1'-0"



3 WALL SECTION
SCALE 3/8" = 1'-0"



2 WALL SECTION
SCALE 3/8" = 1'-0"



1 WALL SECTION
SCALE 3/8" = 1'-0"

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
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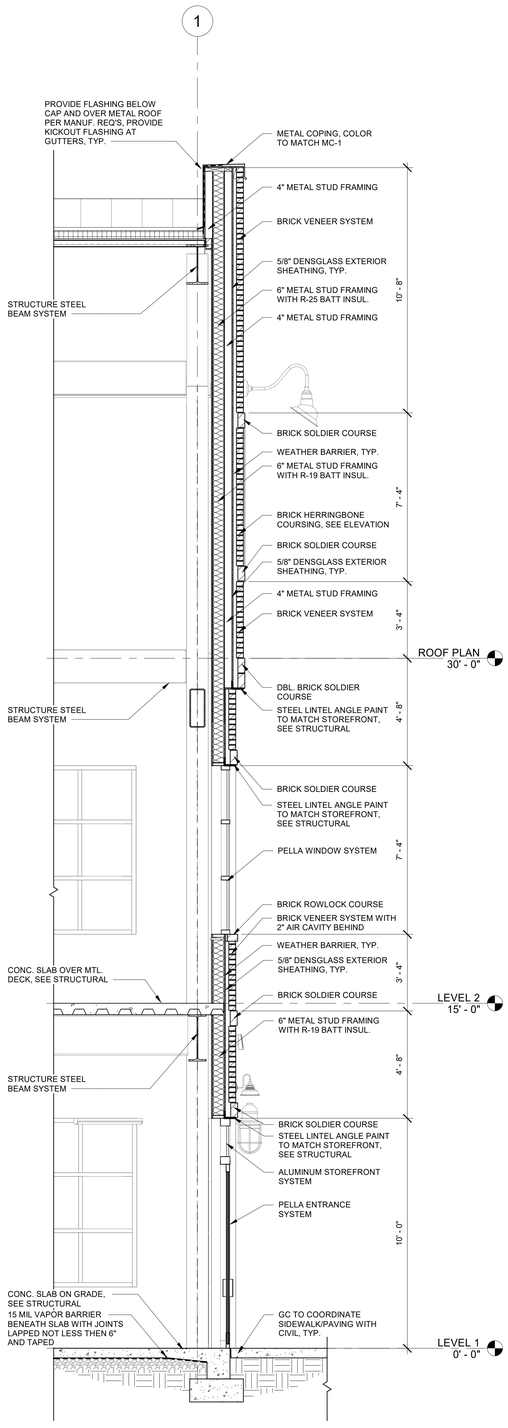
STATE OF GEORGIA
ROBERT A. ZAPPOLLA
CERTIFICATE NO. 001111
REGISTERED ARCHITECT

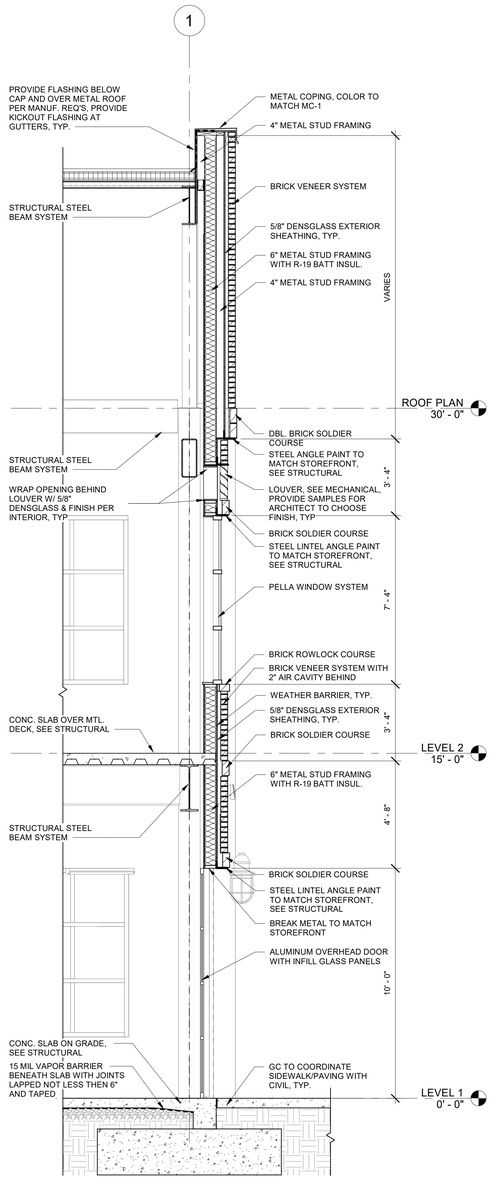
PROJECT #: O-2002

WALL SECTIONS

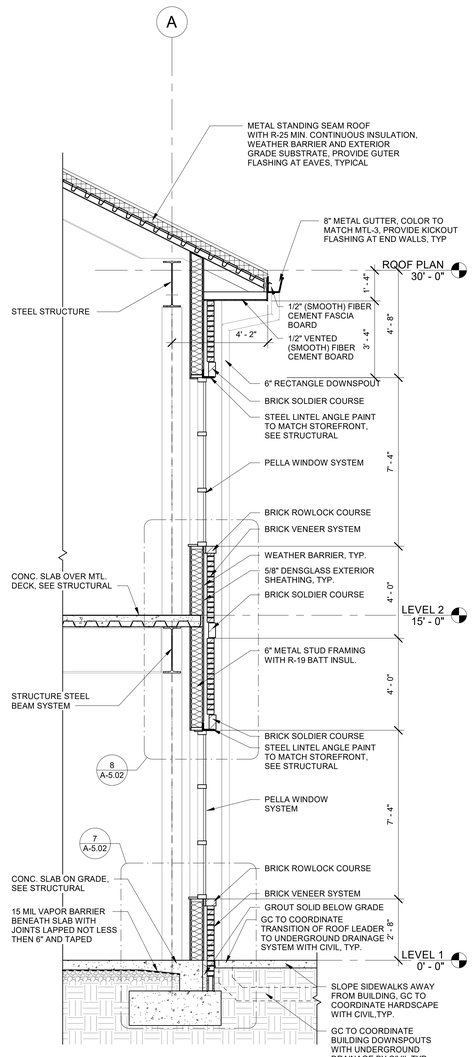
A-3.02



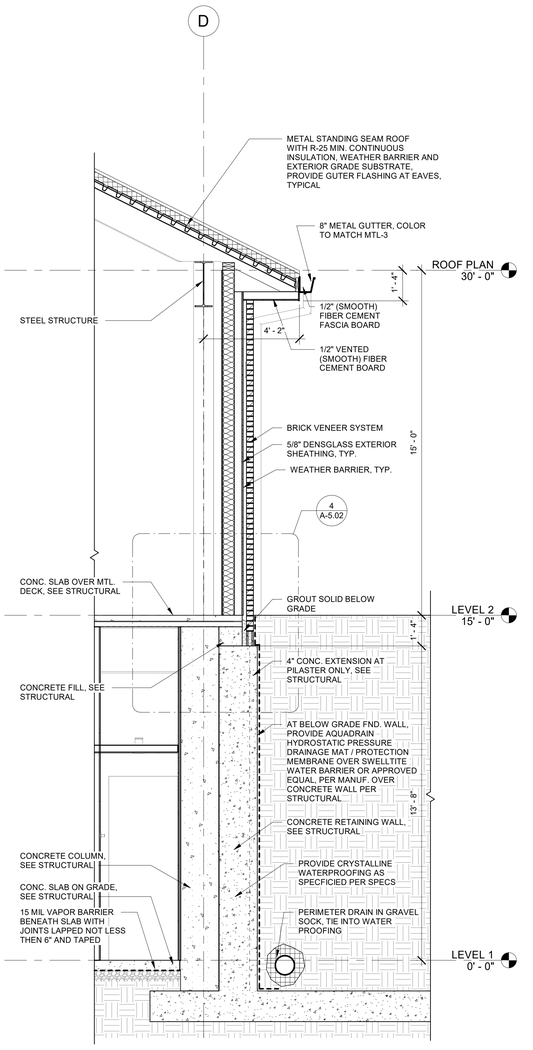
1 WALL SECTION
SCALE 3/8" = 1'-0"



2 WALL SECTION
SCALE 3/8" = 1'-0"



3 WALL SECTION
SCALE 3/8" = 1'-0"



4 WALL SECTION
SCALE 3/8" = 1'-0"

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
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THE FORUM ATHLETIC CLUB

AKA STUDIO, PC
Architects & Interiors
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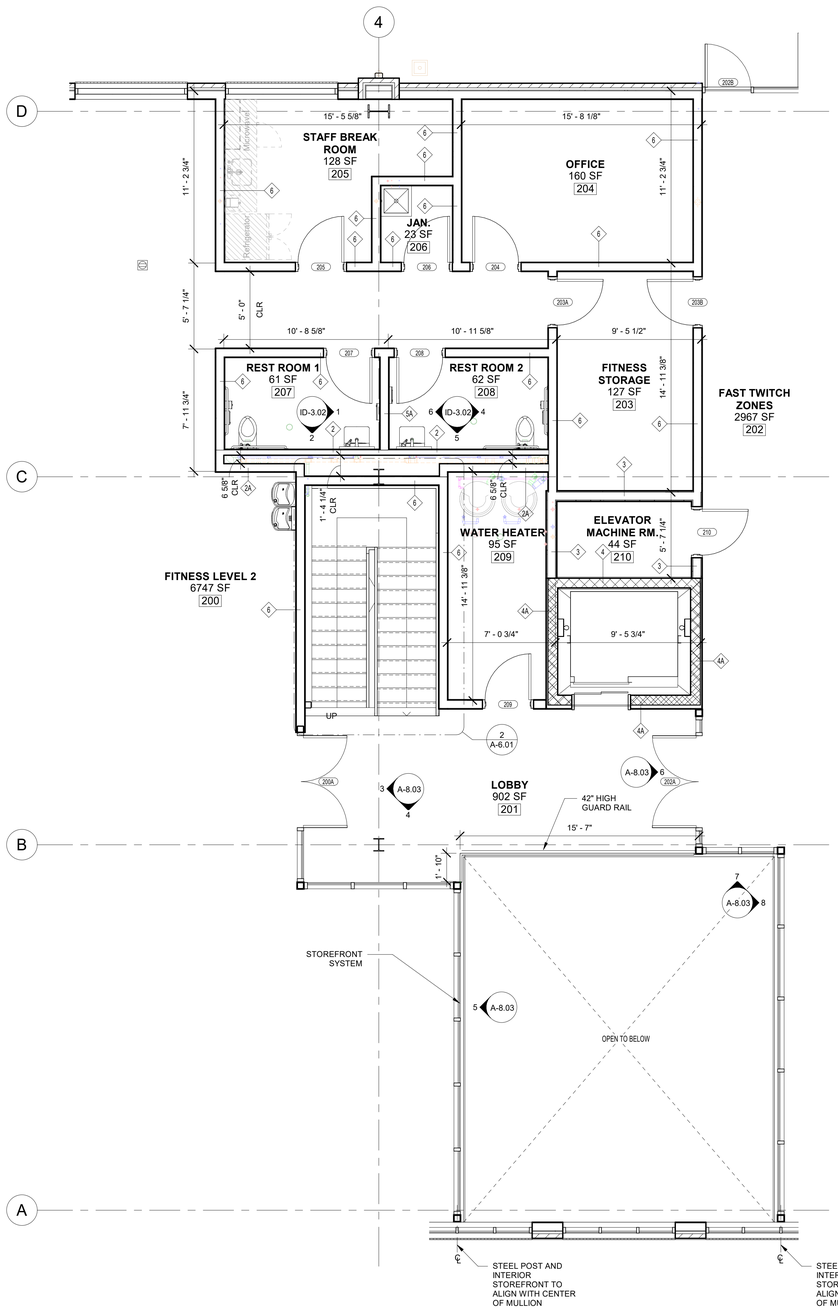
STATE OF GEORGIA
ROBERT J. ZAPPELLA
CERTIFICATE NO. 040703
REGISTERED ARCHITECT

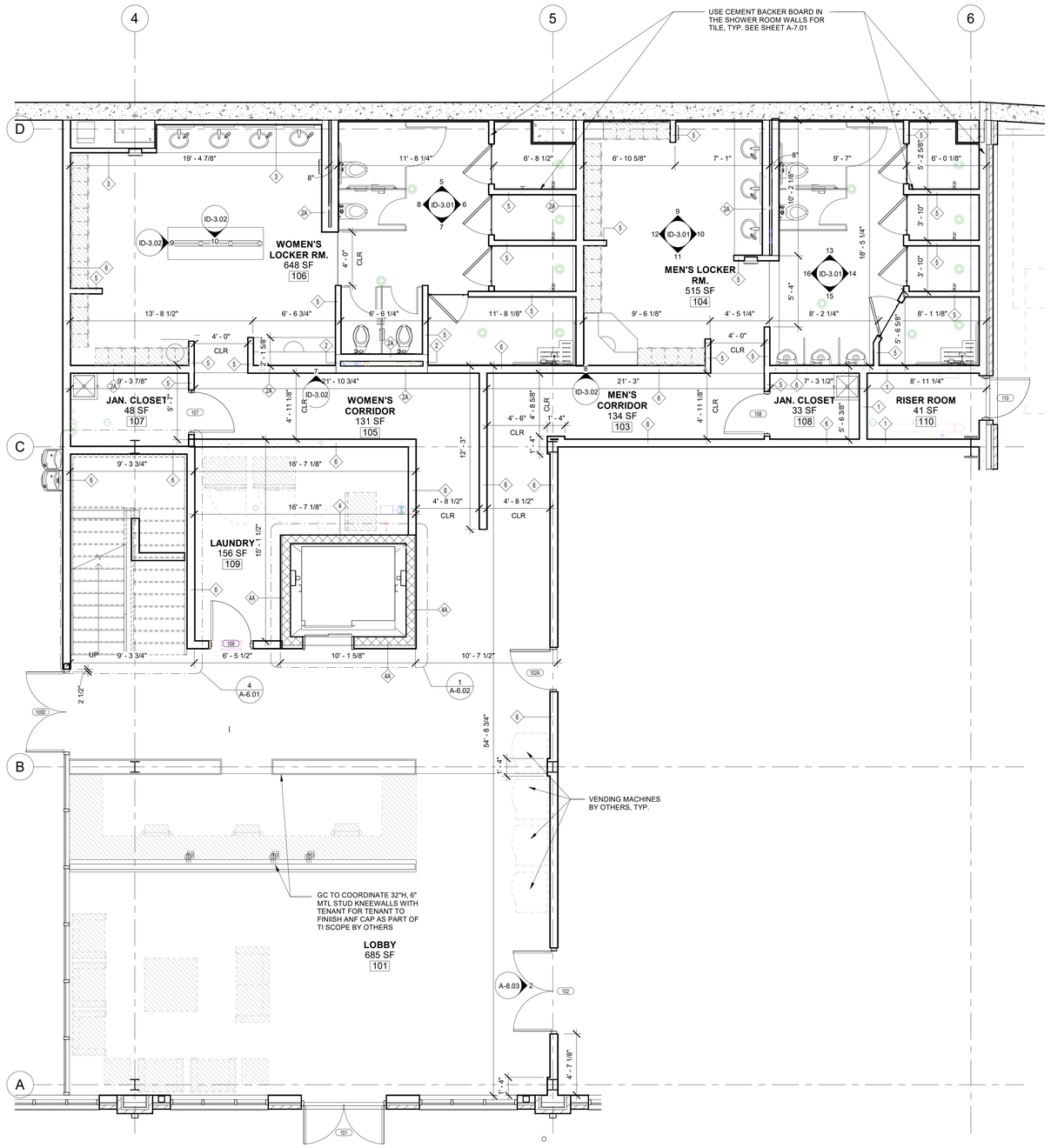
PROJECT # O-2002

WALL SECTIONS

A-3.03



2 ENLARGED PLANS - LEVEL 2
SCALE 1/4" = 1'-0"



1 ENLARGED PLANS - LEVEL 1
SCALE 1/4" = 1'-0"

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
DRAWN BY: 1 ARCH

DRAWINGS FOR:
Roca Point Partners
309 East Paces Ferry Road
Suite 825
Atlanta, GA 30305

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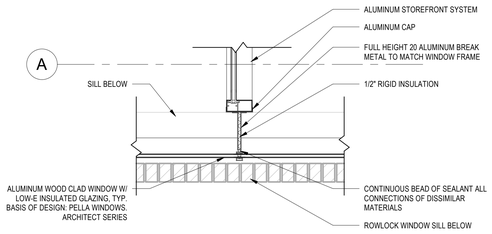
STATE OF GEORGIA
ROBERT A. ZAPPELLA
CERTIFICATE NO. RA012181
REGISTERED ARCHITECT

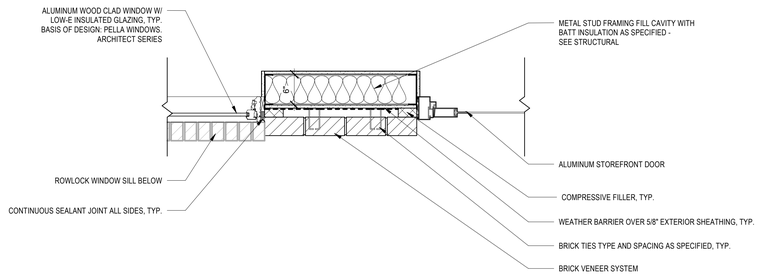
PROJECT #: O-2002

ENLARGED FLOOR PLANS

A-4.01



8 PLAN DETAIL
SCALE 1" = 1'-0"



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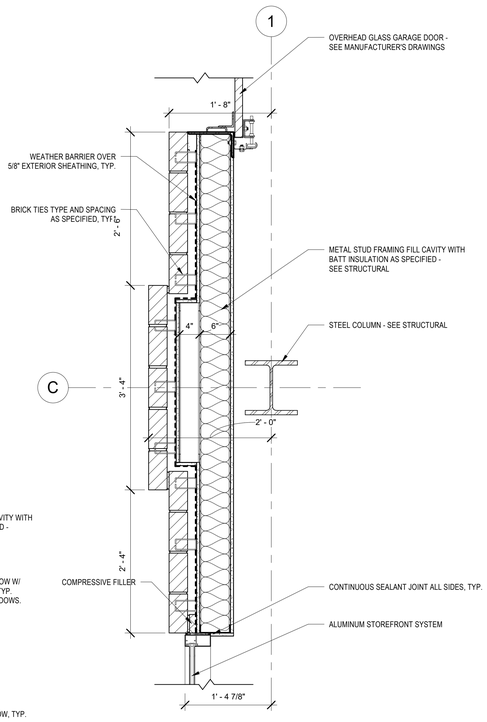
SCALE 1" = 1'-0"



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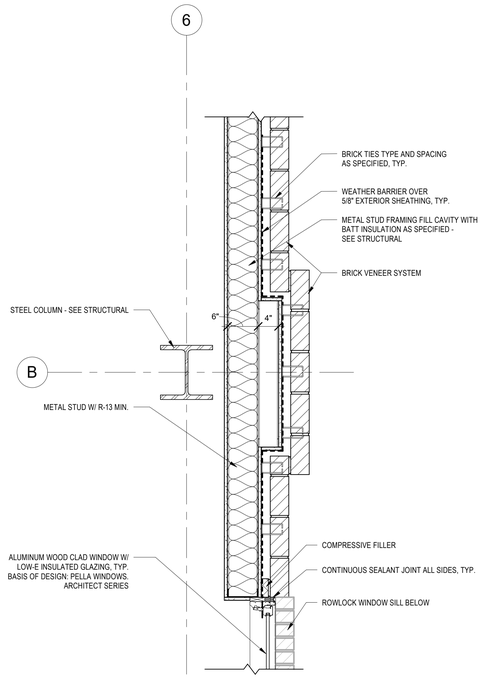
SCALE 1" = 1'-0"



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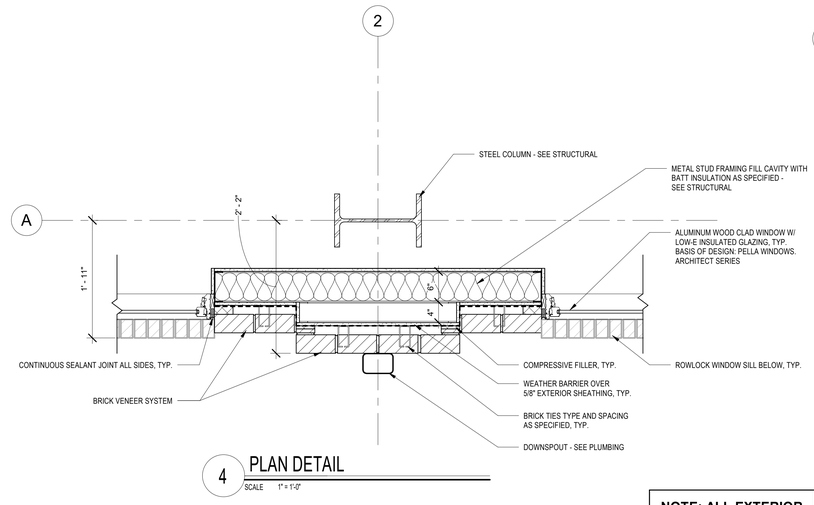
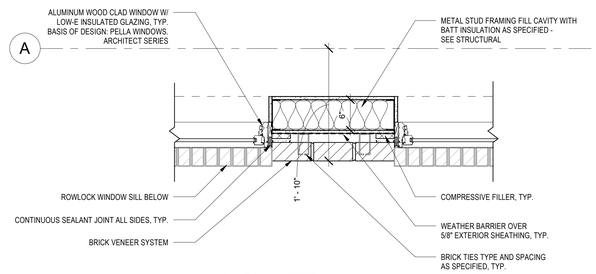
SCALE 1" = 1'-0"



4 PLAN DETAIL
SCALE 1" = 1'-0"

NOTE: ALL EXTERIOR WALL METAL STUD FRAMING TO BE 18GA MIN. U.N.O. BY STUD FRAMING MANUF.



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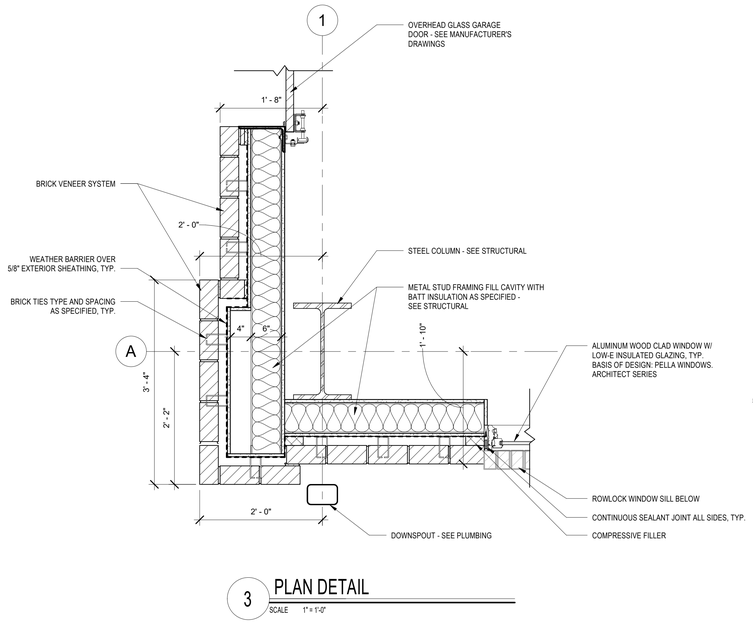
SCALE 1" = 1'-0"



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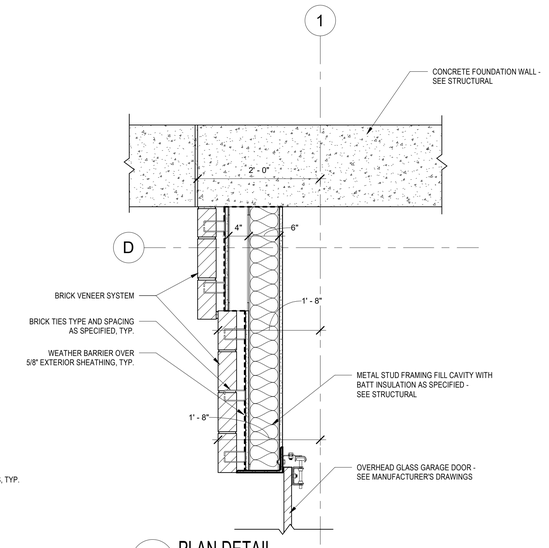
SCALE 1" = 1'-0"



1 PLAN DETAIL
SCALE 1" = 1'-0"

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01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
DRAWN BY: 1 ARCH

DRAWINGS FOR:
Roca Point Partners
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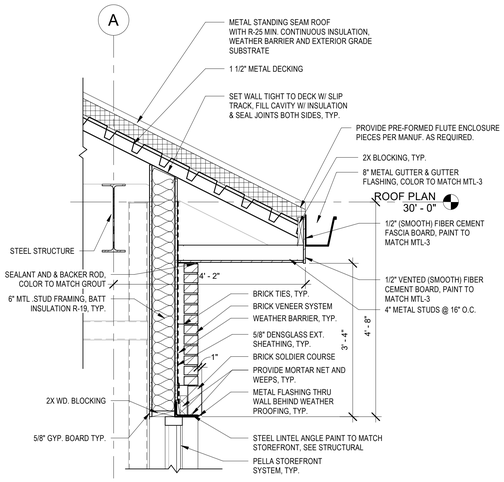
STATE OF GEORGIA
ROBERT C. ZAPPELLA
CERTIFICATE NO. 040777
REGISTERED ARCHITECT

PROJECT # C-2002

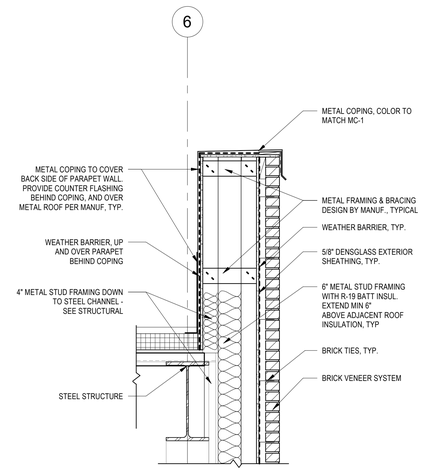
PLAN DETAILS

A-5.01

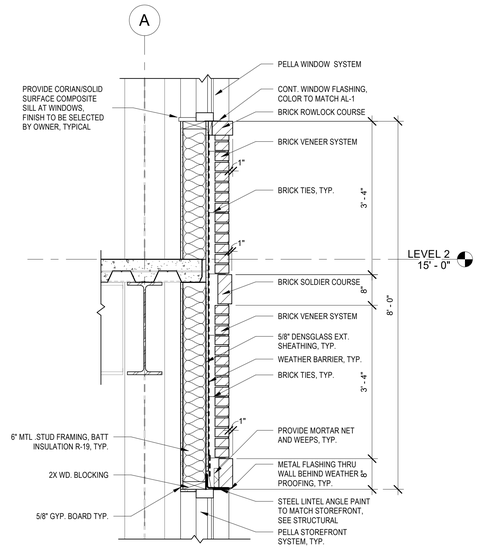
TYPICAL WEATHER BARRIER
COATING AT ABOVE GRADE WALLS:
PROVIDE FLUID APPLIED FLEXIBLE WATER PROOF AIR BARRIER PER MANUFACTURER APPLIED TO ALL SUBSRTRATES TO INHIBIT ITHE INFLTRATION OF MOISTURE INTO THE STRUCTURE. ALL PENETRATIONS TO BE SEALED WATER AND AIR TIGHT. PRODUCT TO BE INSTALLED FOLLOWING ALL MANUFACTURER'S INSTRUCTIONS, PREPARATIONS, AND TO INCLUDE ALL OTHER REQUIRED ACCESSORIES AND MATERIALS TO OBTAIN A FULLY WATER PROOF AND AIR BARRIER SYSTEM



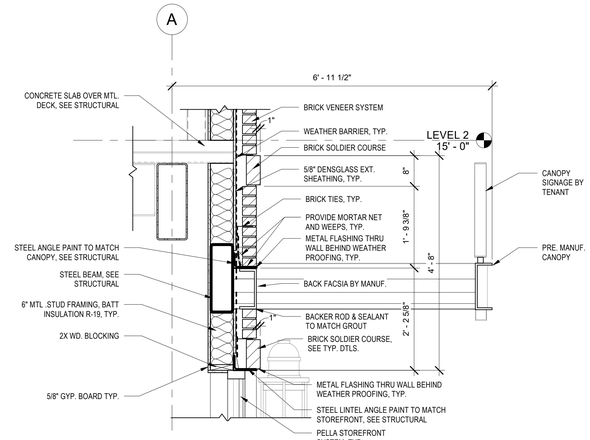
6 SECTION DETAIL - ROOF EVE
SCALE 3/4" = 1'-0"



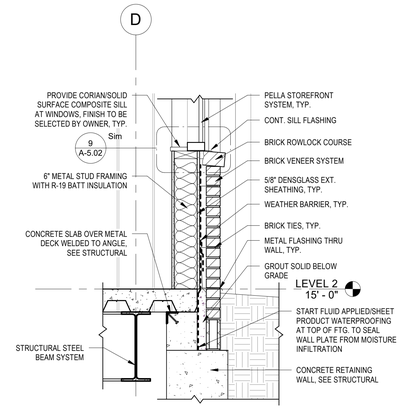
3 SECTION DETAIL - METAL COPING
SCALE 3/4" = 1'-0"



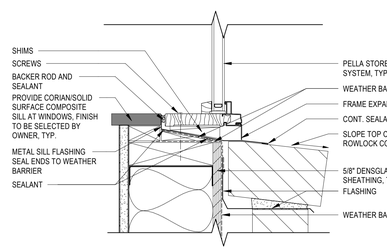
8 SECTION DETAIL - WINDOWS
SCALE 3/4" = 1'-0"



5 SECTION DETAIL - CANOPY
SCALE 3/4" = 1'-0"

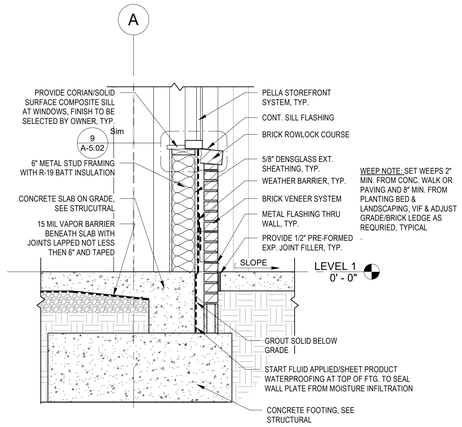


2 SECTION DETAIL - BRICK BASE RETAINING WALL
SCALE 3/4" = 1'-0"

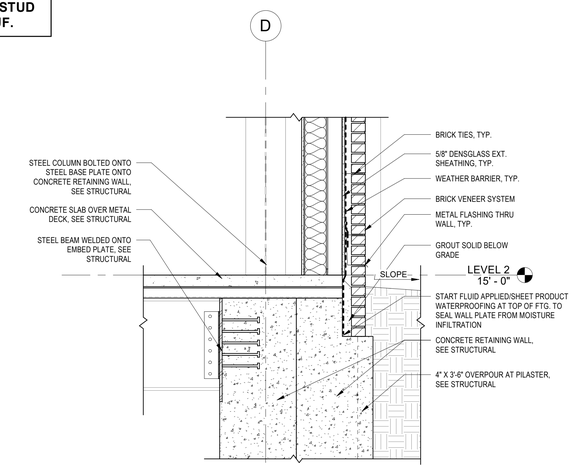


10 SECTION DETAIL - PARAPET SIDE
SCALE 3/4" = 1'-0"

NOTE: ALL EXTERIOR WALL METAL STUD FRAMING TO BE 18GA MIN. U.N.O. BY STUD FRAMING MANUF.

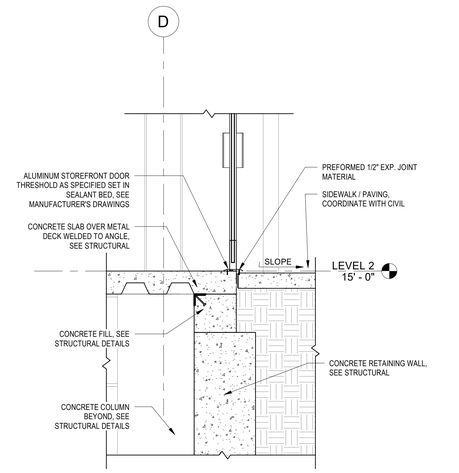


7 SECTION DETAIL - BRICK BASE
SCALE 3/4" = 1'-0"



4 SECTION DETAIL - PILASTER FOUNDATION
SCALE 3/4" = 1'-0"

9 SECTION DETAIL - WINDOW SILL
SCALE 3" = 1'-0"



1 SECTION DETAIL - RETAINING WALL STOREFRONT
SCALE 3/4" = 1'-0"

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01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
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DRAWN BY: 1 ARCH

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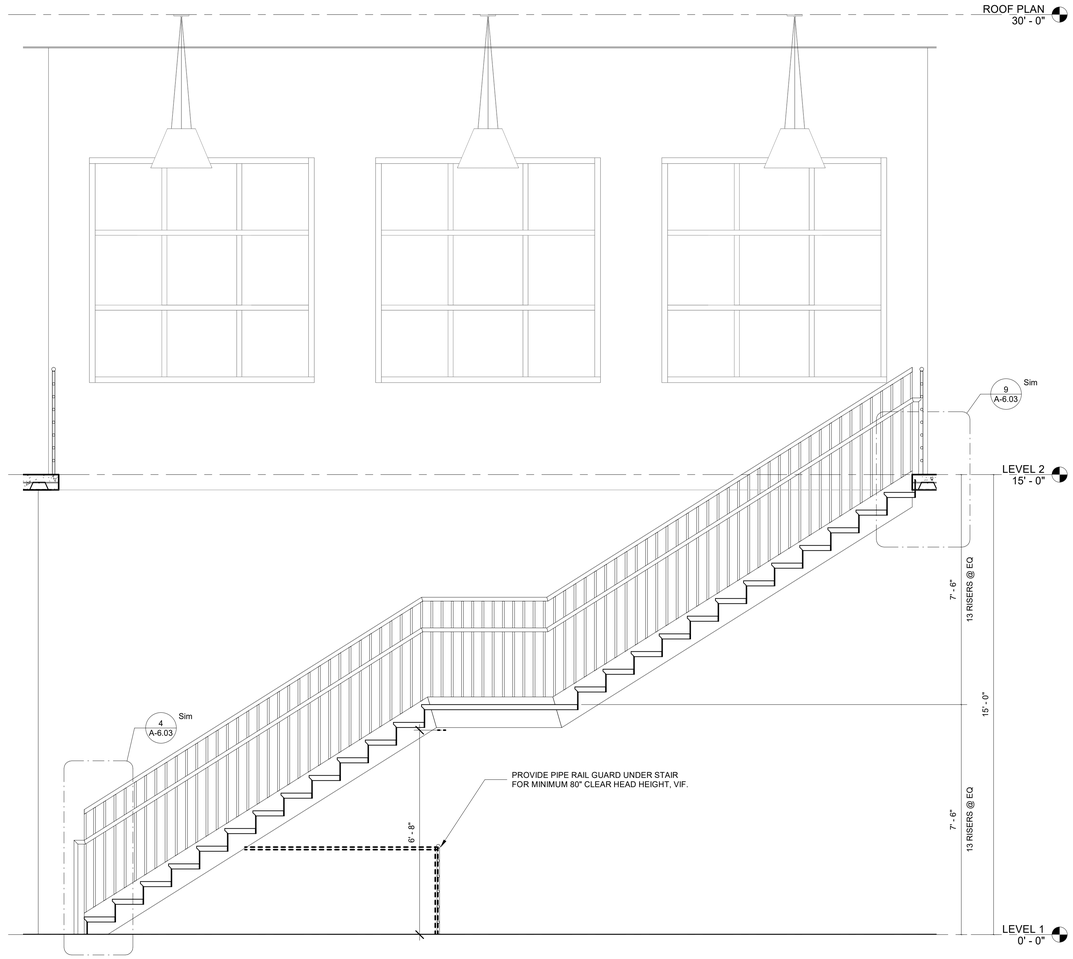
STATE OF GEORGIA
ROBERT ZAPPELLA
CERTIFICATE NO. 040705
REGISTERED ARCHITECT

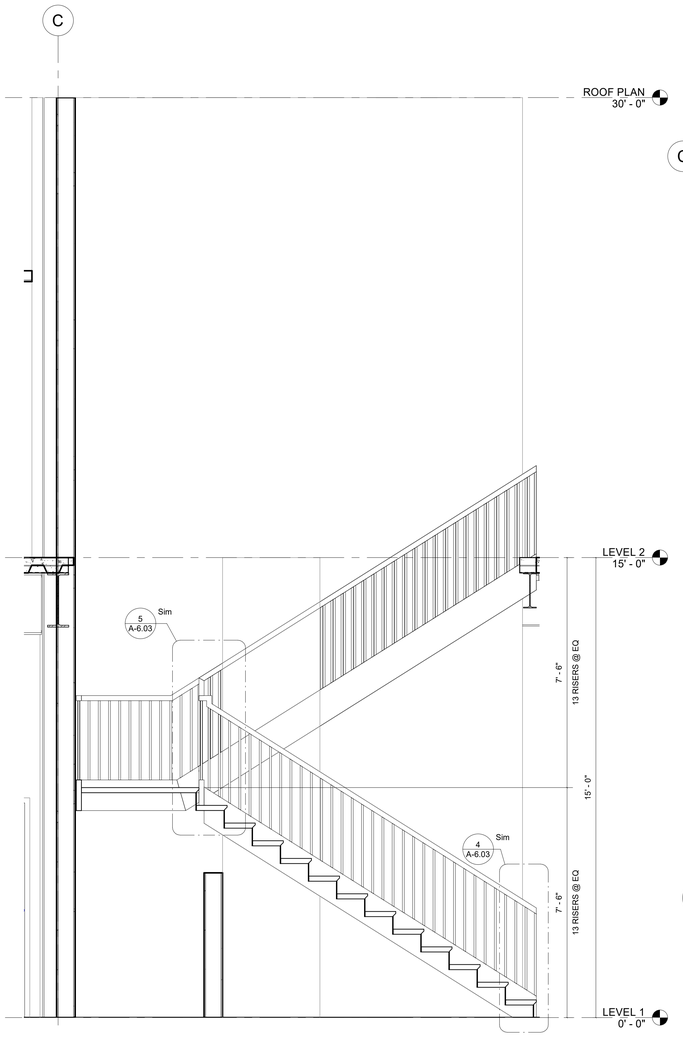
PROJECT # O-2002

SECTION DETAILS

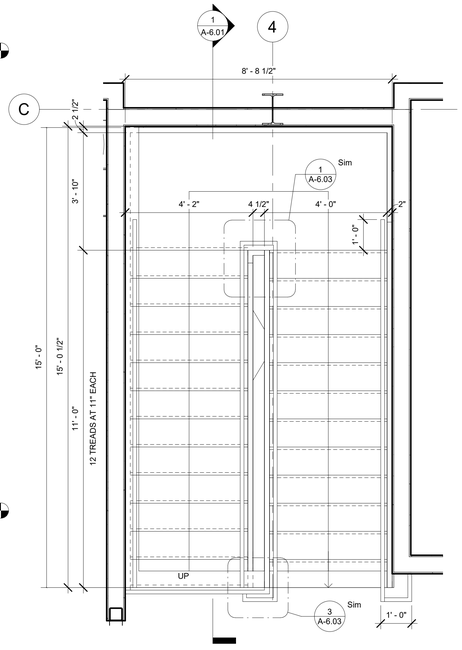
A-5.02



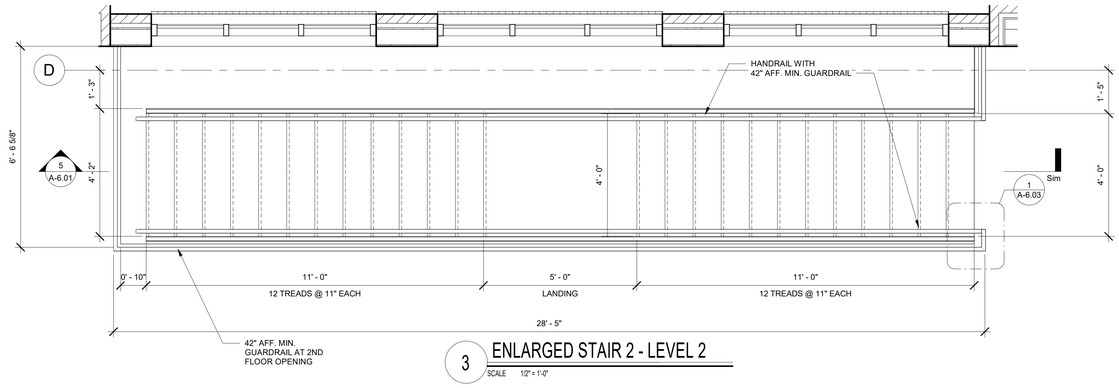
5 SECTION - STAIR 2
SCALE 1/2" = 1'-0"



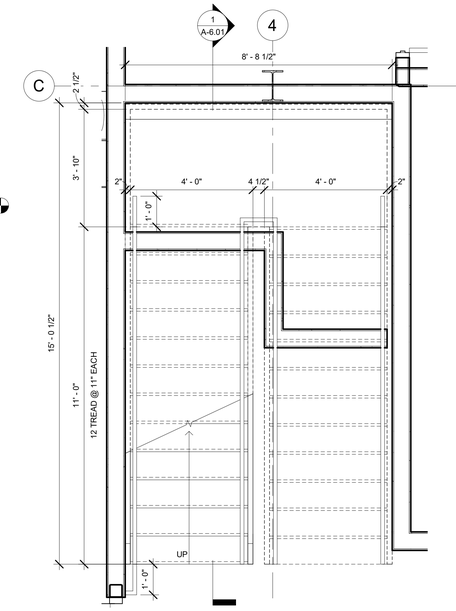
1 SECTION - STAIR 1
SCALE 1/2" = 1'-0"



2 ENLARGED PLAN - STAIR 1 (LVL 2)
SCALE 1/2" = 1'-0"



3 ENLARGED STAIR 2 - LEVEL 2
SCALE 1/2" = 1'-0"



4 ENLARGED PLAN - STAIR 1 (LVL 1)
SCALE 1/2" = 1'-0"

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
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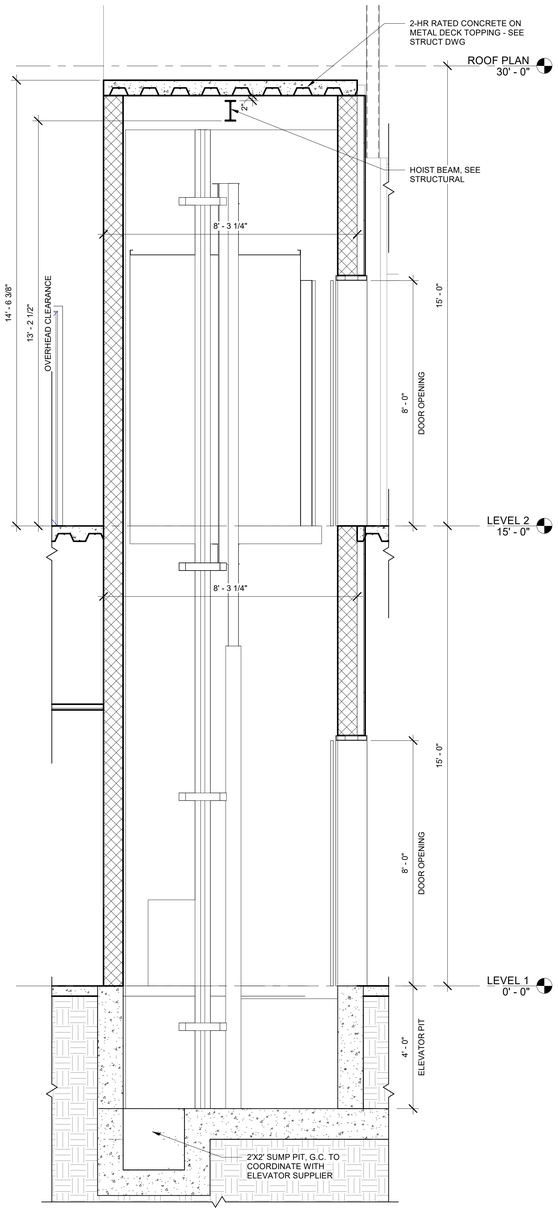
STATE OF GEORGIA
ROBERT J. ZAPPOLLA
CERTIFICATE NO. 040705
REGISTERED ARCHITECT

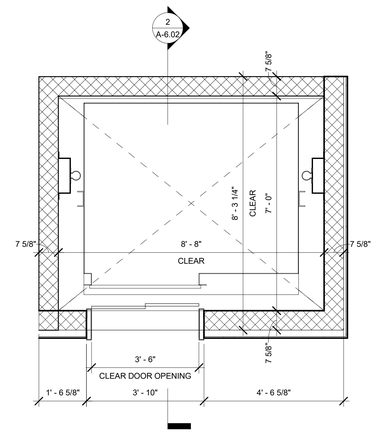
PROJECT # O-2002

VERTICAL
CIRCULATIONS

A-6.01



2 SECTION - ELEVATOR
SCALE 1/2" = 1'-0"



1 ENLAGED PLAN - ELEVATOR
SCALE 1/2" = 1'-0"

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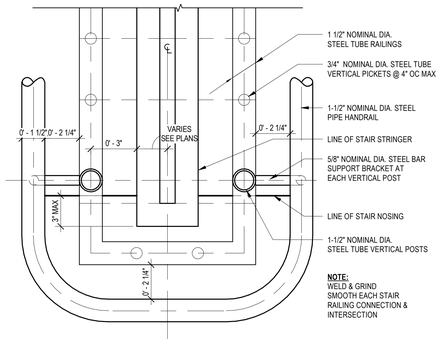
STATE OF GEORGIA
ROBERT A. ZAPPELLA
CERTIFICATE NO. 040703
REGISTERED ARCHITECT

PROJECT #: O-2002

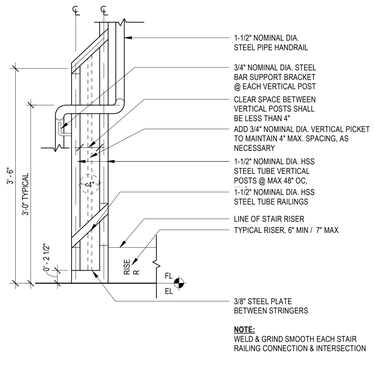
VERTICAL CIRCULATIONS

A-6.02



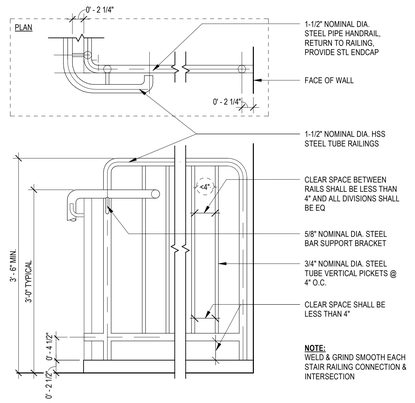
1 STAIR RAILING TRANSITION - PLAN

SCALE 3" = 1'-0"



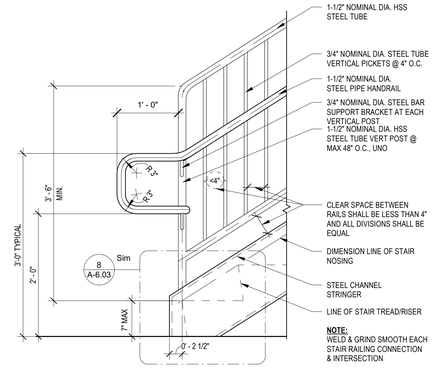
2 STAIR RAILING TRANSITION - ELEVATION

SCALE 1" = 1'-0"



3 STAIR RAIL TERMINATION @ TOP LANDING

SCALE 1" = 1'-0"



4 STAIR RAIL TRANSITON @ BOTTOM OF LANDING

SCALE 1" = 1'-0"

5 STAIR GUARDRAIL TRANSITION @ LANDING

SCALE 1" = 1'-0"

6 GUARDRAIL SECTION

SCALE 1" = 1'-0"

7 STAIR RAIL @ CONCRETE STEPS-SLAB ANCHORED

SCALE 1" = 1'-0"

8 TYPICAL STAIR @ FLOOR SLAB

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

9 TYPICAL STAIR @ LANDING - TREAD/RISER DETAIL

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

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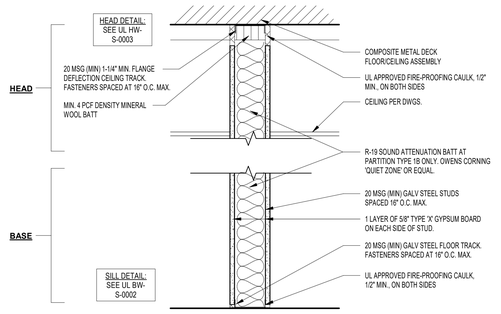
STATE OF GEORGIA
ROBERT A. ZAPPOLLA
CERTIFICATE NO. 39497/RA
REGISTERED ARCHITECT

PROJECT #: O-2002

STAIR DETAILS

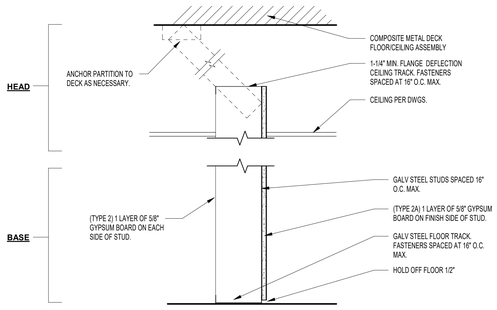
A-6.03



TYPE	GYPSUM BOARD	STEEL CHANNEL STUD			PARTITION THICKNESS	FIRE RATING	SOUND ATT. BATTS	COMMENTS
		SIZE	GAGE (MIN.)	SPACING (MAX.)				
1	5/8"	6"	20 MSG	16" O.C.	7 1/4"	1 HR.	YES	UL DESIGN: U494

1 PARTITION TYPE 1
1-HR FIRE RATED WALL

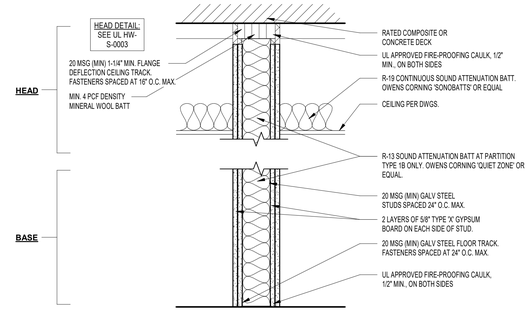
SCALE 1 1/2" = 1'-0"



TYPE	GYPSUM BOARD	STEEL STUD			PARTITION THICKNESS	FIRE RATING	SOUND ATT. BATTS	COMMENTS
		SIZE	GAGE (MIN.)	SPACING (MAX.)				
2	5/8"	3 5/8"	NOTE 1	NOTE 1	7 1/4"	-	-	PROVIDE CEMENT BACKER BOARD AT TILE WALLS. TYP PER ID-1.01 AND ID-1.02. SEE WT-1 AND WT-2
2A	5/8"	6"	NOTE 1	NOTE 1	6 5/8"	-	-	PROVIDE CEMENT BACKER BOARD AT TILE WALLS. TYP PER ID-1.01 AND ID-1.02. SEE WT-1 AND WT-2

2 PARTITION TYPE 2 & 2A
RESTROOM SANITARY / RISER WALL

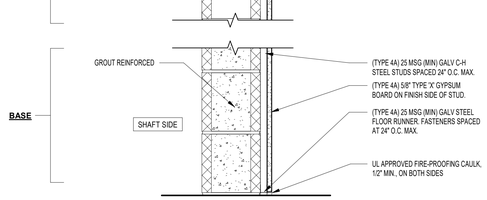
SCALE 1 1/2" = 1'-0"



TYPE	GYPSUM BOARD	STEEL CHANNEL STUD			PARTITION THICKNESS	FIRE RATING	SOUND ATT. BATTS	COMMENTS
		SIZE	GAGE (MIN.)	SPACING (MAX.)				
3	5/8"	6"	20 MSG	16" O.C.	8-1/2"	2 HR.	YES	UL DESIGN: U411

3 PARTITION TYPE 3
2-HR FIRE RATED WALL

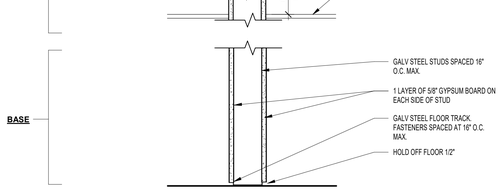
SCALE 1 1/2" = 1'-0"



TYPE	GYPSUM BOARD	STEEL C-H STUD			CMU	FIRE RATING	SOUND ATT. BATTS	COMMENTS
		SIZE	GAGE (MIN.)	SPACING (MAX.)				
4	-	-	-	-	7 5/8"	3 HR.	-	UL DESIGN: U914
4A	5/8"	7/8", 2 1/2"	25 MSG	24" O.C.	7 5/8"	3 HR.	-	UL DESIGN: U914

4 PARTITION TYPE 4
3-HR FIRE-RATED CMU SHAFT-WALL

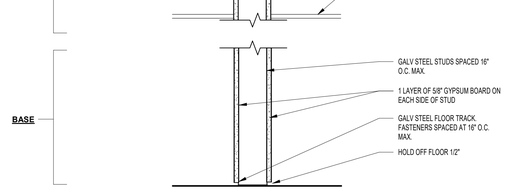
SCALE 1 1/2" = 1'-0"



TYPE	GYPSUM BOARD	STEEL STUD			PARTITION THICKNESS	FIRE RATING	SOUND ATT. BATTS	COMMENTS
		SIZE	GAGE (MIN.)	SPACING (MAX.)				
5	5/8"	4"	NOTE 1	NOTE 1	5 1/4"	-	-	PROVIDE CEMENT BACKER BOARD AT TILE WALLS. TYP PER ID-1.01 AND ID-1.02. SEE WT-1 AND WT-2
5A	5/8"	6"	NOTE 1	NOTE 1	7 1/4"	-	-	PROVIDE CEMENT BACKER BOARD AT TILE WALLS. TYP PER ID-1.01 AND ID-1.02. SEE WT-1 AND WT-2

5 PARTITION TYPE 5 & 5A
RESTROOM WALLS

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



TYPE	GYPSUM BOARD	STEEL STUD			PARTITION THICKNESS	FIRE RATING	SOUND ATT. BATTS	COMMENTS
		SIZE	GAGE (MIN.)	SPACING (MAX.)				
6	5/8"	4"	NOTE 1	NOTE 1	5 1/4"	-	-	PROVIDE CEMENT BACKER BOARD AT TILE WALLS. TYP PER ID-1.01 AND ID-1.02. SEE WT-1 AND WT-2

6 PARTITION TYPE 6
NON RATED WALLS

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

NOTE:
COLD -FORMED METAL AND NON-STRUCTURAL METAL DELEGATED DESIGN BY FRAMING SUB. REFER TO SPECIFICATIONS FOR ADDITIONAL DESIGN CRITERIA.

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
DRAWN BY: 1 ARCH

DRAWINGS FOR:
Roca Point Partners
309 East Paces Ferry Road
Suite 825
Atlanta, GA 30305

THE FORUM ATHLETIC CLUB

AKA STUDIO, PC
Architects & Interiors
74 WOODSTOCK ROAD,
ROSWELL, GA. 30075
(770) 642-9030 info@akastudiopc.com

STATE OF GEORGIA
ROBERT A. ZAPPOLLA
CERTIFICATE NO. RA017172
REGISTERED ARCHITECT

PROJECT #: O-2002

PARTITION TYPES

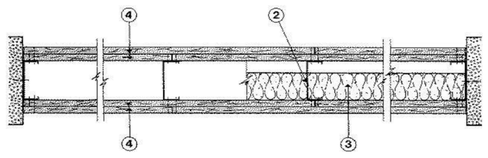
A-7.01

Design No. U411

July 12, 2018

Nonbearing Wall Rating — 2 Hr.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



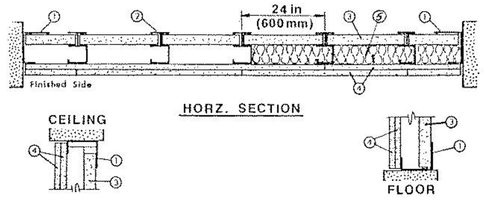
1. Floor and Ceiling Runner — (Not Shown) — Min. 25 MSG (min 20 MSG when Item 4B is used) galv steel 1 in. high, return legs 2-1/2 in. wide (min), attached to floor and ceiling with fasteners 24 in. OC.
2. Steel Studs — Min 2-1/2 in. wide, 1-1/4 in. legs, 3/8 in. return, formed of min 25 MSG (min 20 MSG when Item 4B is used) galv steel max stud spacing 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
3. Batts and Blankets* — (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Fasten each batt to wallboard base layer with a min 9/16 in. long staple. Use five staples for each 4 ft piece. Drive one staple in the center of each piece and a staple at each corner, approx 3 in. from edges.
See Batts and Blankets (BZJZ) category for names of manufacturers.
3A. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose insulation material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry den-sity of 3.0 lb/ft3 U S GREENFIBER L L C — Cocoon stabilized cellulose insula-tion.3B. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 3) and/tem 3A - Spray applied cellulose insulation material. The fiber isapplied with water to interior surfaces in accordance with the applica-tion instructions supplied with the product. Applied to completely fillthe enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.NU-WOOL CO INC — Cellulose InsulationI. Gypsum Board* — 5/8 in. thick, outer layer paper or vinyl surfaced.(Laminated System) Wallboard applied vertically in two layers. Innerlayer attached to studs with 1 in. long Type S steel screws spaced 8 in.OC along vertical edges, and 12 in. OC in the field and outer layerlaminated to inner layer with joint compound, applied with a notchedspreader producing continuous beads of compound about 3/8 in. indiameter, spaced not greater than 2 in. OC. Joints of laminated outerlayer offset 12 in. from inner layer joints Outer layer wallboardattached to floor and ceiling runner track with 1-5/8 in. long Type Ssteel screws spaced 12 in. OC.Optional, (Direct Attached System), Inner layer attached to studs with 1in. long Type S steel screws spaced 16 in. OC in the field and alongthevertical edges. Outer layer attached to the studs over the inner layer with 1-5/8 in. long Type S steel screws spaced 16 in. OC in the field and along the vertical edges and 12 in. OC to the floor and ceiling runners. Joints of screw-attached outer layer offset from inner layer joints. Joints of outer layer may be taped or untaped.
Nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced.
AMERICAN GYPSUM CO — Types AG-C, AGX-11, AGX-C.
BEIJING NEW BUILDING MATERIALS CO LTD — Type DBX-1
BPB AMERICA INC
—Types 1, FRPC, EGRG, ProRoc Type X or Pro-Roc Type C.CANADIAN GYPSUM COMPANY —Type AR, C, FCV, IP-AR,IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.G-P GYPSUM CORP, SUB OFGEORGIA-PACIFIC CORP —Types 5, 9, C, DAP, DD, DA, DGG,DS, GPF56.LAFARGE NORTH AMERICA INC —Types LGFC2, LGFC2A,LGFC3, LGFC6, LGFC6A, LGFC-C, LGFC-C/A.NATIONAL GYPSUM CO —Types FSW, FSW-3, FSW-C, FSW-G.NORGIPS A/S —NORFIRE X, NORFIRE XA.PABCO GYPSUM, DIV OFPACIFIC COAST BUILDING PRODUCTS INC —Type C, PG-3,PG-5, PG-9 or PG-C.SIAM GYPSUM INDUSTRY CO LTD —Type EX-1STANDARD GYPSUM L L C —Type SGC, SG-C or SGC-G.TEMPLE-INLAND FOREST PRODUCTS CORP —Types T,TG-C, VP8-Type T.UNITED STATES GYPSUM CO —Type AR, C, FCV, FRX-G,IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.WESTROC INC —Type Westroc Fi-Rok or Abuse-Resistant.USG MEXICO S A DE C V —Type AR, C, FCV, IP-AR, IP-X1,IP-X2, IPC-AR, SCX, SHX, WRC or WRX.4A. Gypsum Board* — (As an alternate to Item 4) — Nom 3/4 in. thick,installed as described in Item 4 with 1-1/4 in. long Type S screws forinner layer and 2-1/4 in. long Type S screws for outer layer.CANADIAN GYPSUM COMPANY —Types AR, IP-AR.UNITED STATES GYPSUM CO —Types AR, IP-AR USG MEXICO S A DE C V —Types AR, IP-AR.4B. Gypsum Board* — (As an alternate to Item 4 and 4A) — Nom 5/8 in.thick gypsum panels, installed as described in Item 4 with Type S-12steel screws. The length and spacing of the screws as specified underItem 4.CANADIAN GYPSUM COMPANY —Type FRX.UNITED STATES GYPSUM CO —Type FRX.4C. Gypsum Board* — (As an alternate to Item 4, 4A and 4B)—5/8 in.thick, 2 ft wide, tongue and groove edge, applied horizontally as theouter layer to one side of the assembly. Secured as described in Item 4for the direct attached system .CANADIAN GYPSUM COMPANY —Type SHX.UNITED STATES GYPSUM CO —Type SHX.USG MEXICO S A DE C V —Type SHX.*Bearing the UL Classification Mark

Design No. U428

October 13, 2015

Nonbearing Wall Rating — 2 Hr

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



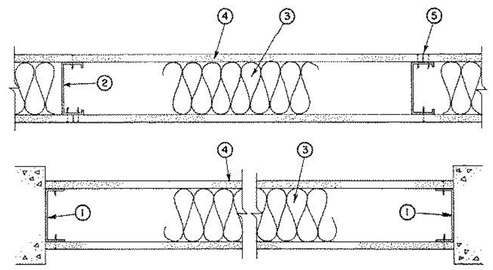
1. **Floor and Ceiling Runners —** "J"-shaped runners, min. 2-1/2 in. wide with unequal legs of 1 in. and 2-1/4 in., fabricated from min. 25 MSG galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not more than 2 in. from ends and not more than 24 in. OC.
1A. **Framing Members* — Floor and Ceiling —** Not shown — As an alternate to Item 1 — For use with Item 2A, proprietary "J"-shaped runners, galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not more than 2 in. from ends and not more than 24 in. OC.
RONDO BUILDING SERVICES PTY LTD — Type J Runner Track
1B. **Steel Framing Members (Floor, Side and Ceiling Runners)* —** As an alternate to Item 1. "J"-shaped runner, min 2-1/2 in. deep, with unequal legs of 1 in. and min 2-1/4 in. fabricated from min 25 MSG galv steel (0.0179 in. bare steel thickness). Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. Runners may be supplied with securement tabs for gypsum liner panels (refer to Item 3).
SCAFCO STEEL STUD MANUFACTURING CO — I-Stud Shaftwall Steel Framing System
2. **Steel Studs —** "C-7" or "C-H" shaped studs 1-5/8 in. wide by min. 2-1/2 in. deep, fabricated from min. 25 MSG galv steel. Cut to lengths 3/4 in. less than floor to ceiling height and spaced 24 in. or 600 mm OC.
2A. **Framing Members* — Steel Studs —** As an alternate to Item 2 — Proprietary "C-H" shaped studs, galv steel. Cut to lengths 3/4 in. less than floor to ceiling height and spaced 24 in. or 600 mm OC.
RONDO BUILDING SERVICES PTY LTD — Type CH Stud
2B. **Steel Framing Members (Steel Studs)* —** As an alternate to Item 2. For use with Item 1B - "I"-shaped studs fabricated from min 25 MSG galv steel, min 2-1/2 in. deep, 1-1/2 in. wide. Studs contain 3/4 in. wide by 2-1/4 in. high holding tabs spaced 2-3/4 in. OC. Cut to lengths 5/8 in. less than floor-to-ceiling height and spaced 24 in.
SCAFCO STEEL STUD MANUFACTURING CO — I-Stud Shaftwall Steel Framing System
3. **Gypsum Board* —** 1 in. thick gypsum wallboard liner panels, supplied in nom. 24 in. or 600 mm (for metric spacing) widths. Panels cut 1 in. less in length than the floor to ceiling height. Vertical edges of the panels inserted into "I"-shaped section of C-T studs or the "H" section of the C-H studs. Free edge of end panels secured to long leg of J runner with tabs in runner or 1-5/8 in. long Type S self-tapping bugle head steel screws spaced not more than 12 in. OC. When J-shaped runners (Item 1B) are supplied with securement tabs, free edge of end panels may be secured by bending the securement tabs, max 12 in. OC, to a 90 degree angle to securely friction-fit panels into J-shaped runners.
AMERICAN GYPSUM CO — Types AG-S, M-Glass
CERTAINTEED GYPSUM INC — Types Shaftliner, EGRG Shaftliner, GlasRoc Shaftliner.
CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFCSL
GEORGIA-PACIFIC GYPSUM L L C — Types TF-6, DGUSL, and TRSL
NATIONAL GYPSUM CO — Types FSW, FSW-8, FSW-7, FSW-C
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-10 and PG-10G
THAI GYPSUM PRODUCTS PCL — Type Shaftliner
4. **Gypsum Board* —** 1/2 inch or 5/8 in. thick, 4 ft wide, applied in two layers. Base layer attached horizontally to studs and side "J" runners with 1 in. long Type S self-tapping steel screws starting at 2 in. from the floor and ceiling runners and spaced a maximum 24 in. OC along the vertical edges and in the field of the boards.
Face layer installed vertically to studs and side "J" runners and attached with 1-5/8 in. long Type S self-tapping steel screws, starting at 3 in. from the floor and ceiling runners and spaced a maximum 12 in. OC along the vertical edges and in the field of the boards. Face layer joints covered with paper tape and two coats of joint compound. Exposed screw heads covered with two coats of joint compound.
ACADIA DRYWALL SUPPLIES LTD — Type C
AMERICAN GYPSUM CO — Types AG-C
CERTAINTEED GYPSUM INC — Type C
CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Types LGFC-C/A, LGFC6A
GEORGIA-PACIFIC GYPSUM L L C — Types DAPC, TG-C.
NATIONAL GYPSUM CO — Types eXP-C, FSK, FSL, FSMR-C, FSW-3, FSW-8, FSW-C, FSW-G.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-C, 5/8 in. Type C.
THAI GYPSUM PRODUCTS PCL — Type C
4A. **Gypsum Board* —** (As an alternate to Item 4) - Installed vertically only as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced.
NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board
5. **Batts and Blankets* —** (optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt material bearing the UL Classification Marking as to Fire Resistance.
5A. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft3, in accordance with the application instructions supplied with the product.
U S GREENFIBER L L C — INS735& INS745 for use with wet or dry application. INS765LD and INS770LD are to be used for dry application only.
5B. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) and Item 5A - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
NU-WOOL CO INC — Cellulose Insulation
5C. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft3.
INTERNATIONAL CELLULOSE CORP — Celbar-RL
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Design No. U494

March 31, 2016

Nonbearing Wall Rating — 1 HR.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Floor and Ceiling Runners** — Channel-shaped runners, min 2-1/2 in. wide by 1 in. deep, fabricated from 25 MSG galv steel. Attached to floor and ceiling with fasteners.
1A. **Framing Members* — Floor and Ceiling Runner** — Not Shown — In lieu of Item 1 — For use with Item 2A, proprietary channel shaped runners, 1-1/4 in. deep by min 2-1/2 in. wide fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track
1B. **Framing Members* — Floor and Ceiling Runners** — Not Shown — In lieu of Item 1 — For use with Item 2B, channel shaped runners, 1-1/4 in. deep by min 2-1/2 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK
DMFCWBS L L C — ProTRAK
MBA METAL FRAMING — ProTRAK
RAM SALES L L C — Ram ProTRAK
STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK
1C. **Framing Members* — Floor and Ceiling Runner** — Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. deep by min 2-1/2 in. wide fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
TELLING INDUSTRIES L L C — Viper20™ Track
1D. **Framing Members* — Floor and Ceiling Runners** — Not Shown — In lieu of Item 1 — For use with Item 2D, channel shaped runners, 1-1/4 in. deep by min 2-1/2 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
TELLING INDUSTRIES L L C — TRUE-TRACK™
2. **Studs** — Channel-shaped, min 2-1/2 in. wide by 1-1/4 in. deep with 5/16 in. folded back return. Fabricated from 25 MSG galv steel. Spaced 16 or 24 in. OC. Length of studs to be 1 in. less than assembly height.
2A. **Framing Members* — Steel Studs** — Not Shown — In lieu of Item 2 — For use with Item 1A, proprietary channel shaped steel studs, 1-1/4 in. deep by min 2-1/2 in. wide fabricated from min 0.020 in. thick galv steel. Spaced max 24 in. OC. Studs cut 1 in. less in length than assembly height.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™
2B. **Framing Members* — Steel Studs** — Not Shown — In lieu of Item 2 — For use with Item 1B, channel shaped steel studs, 1-1/4 in. deep by min 2-1/2 in. wide fabricated from min 0.018 in. thick galv steel, spaced max 24 in. OC. Studs cut 1 in. less in length than assembly height.
CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD
DMFCWBS L L C — ProSTUD
MBA METAL FRAMING — ProSTUD
RAM SALES L L C — Ram ProSTUD
STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD
2C. **Framing Members* — Steel Studs** — Not Shown — In lieu of Item 2 — For use with Item 1C, proprietary channel shaped steel studs, 1-1/4 in. deep by min 2-1/2 in. wide fabricated from min 0.0200 in. thick galv steel. Spaced max 24 in. OC. Studs cut 1 in. less in length than assembly height.
TELLING INDUSTRIES L L C — Viper20™
2D. **Framing Members* — Steel Studs** — Not Shown — In lieu of Item 2 — For use with Item 1D, channel shaped steel studs, 1-1/4 in. deep by min 2-1/2 in. wide fabricated from min 0.018 in. thick galv steel, spaced max 24 in. OC. Studs cut 1 in. less in length than assembly height.
TELLING INDUSTRIES L L C — TRUE-STUD™
2E. **Framing Members* — Steel Studs** — As an alternate to Item 2 — For use with Item 1A (3-5/8 in. wide track), channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 1-1/4 in. wide by 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™
3. **Batts and Blankets*** — Nom 2-1/2 in. thick glass fiber or mineral wool batts supplied in 16 or 24 in. widths, installed to fill interior of stud cavities and friction held.
JOHNS MANVILLE
OWENS CORNING
ROXUL INC — Type AFB
4. **Gypsum Board* — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305**. Nom 5/8 in. thick, 4 ft wide, applied vertically, attached to steel studs on both sides and floor and ceiling runners with 0.127 in. diam self-drilling, self-tapping steel screws, 1 in. long, spaced 8 in. O.C. along edges of boards and 12 in. O.C. in the field of the boards. Joints centered over studs and staggered on opposite sides of the assembly.
ACADIA DRYWALL SUPPLIES LTD (View Classification) — CKNX.R25370
AMERICAN GYPSUM CO (View Classification) — CKNX.R14196
BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX.R19374
CERTAINTEED GYPSUM INC (View Classification) — CKNX.R3660
CGC INC (View Classification) — CKNX.R19751
CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C (View Classification) — CKNX.R18482
GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717
LOADMASTER SYSTEMS INC (View Classification) — CKNX.R11809
NATIONAL GYPSUM CO (View Classification) — CKNX.R3501
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094
PANEL REY S A (View Classification) — CKNX.R21796
SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262
THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517
UNITED STATES GYPSUM CO (View Classification) — CKNX.R1319
USG MEXICO S A DE C V (View Classification) — CKNX.R16089
4A. **Wall and Partition Facings and Accessories* —** (As an alternate to Items 4 through 4A) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES.
4B. **Wall and Partition Facings and Accessories* —** (As an alternate to Items 4 through 4A) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527.
4C. **Gypsum Board* —** (As an alternate to 5/8 in. Type FSW in Item 4) - 2 layers nom. 5/16 in. thick gypsum panels applied vertically. Horizontal joints on the same side need not be staggered. Inner layer attached with fasteners, as described in item 4, spaced 24 in. OC. Outer layer attached per Item 4.
NATIONAL GYPSUM CO — Type FSW
5. **Joint Tape and Compound** — Vinyl-based powder or premixed joint compound, applied in two coats to joints and screw heads; paper tape 2 in. wide, embedded in first layer of compound over all joints.
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

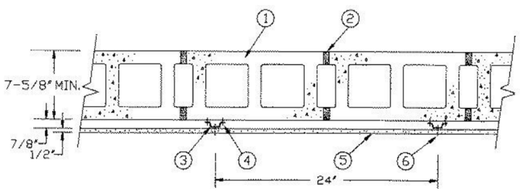
Design No. U914

April 24, 2019

Bearing Wall Rating — 3 HR.

Nonbearing Wall Rating — 3 HR.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. Concrete Blocks* — Various designs. Classification D-2 (2 hr). See Concrete Blocks category for list of eligible manufacturers.
2. Mortar — Blocks laid in full bed of mortar, nom 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
3. Furring Channels — Min 0.019 in. thick (25 gauge) galv steel, 1-3/8 in. wide on top and 2-3/4 in. wide at bottom by 7/8 in. deep. Spaced 24 in. OC perpendicular to floor with a channel parallel to and approxi-mately 3 in. above floor and 3 in. below ceiling. Clearance between ver-tical and horizontal channels 1/2 in.4. Channel Fasteners — 1-1/4 in. long masonry screws with 3/16 in.body and 5/16 in. diameter head. Fasteners spaced 24 in. O.C. with thefasteners staggered on each long leg of the furring channel.4A. Steel Framing Members* — (Not Shown) — Alternate method usedto attach furring channels (Item 3) to concrete blocks (Item 1). Clipsspaced 48 in. OC., and secured to blocks with 1/4 in. dia. By 3 in. longconcrete expansion anchor (Item 4B) through the center grommet. Fur-ring channels are friction fitted into clips.PAC INTERNATIONAL INC —Type RSIC-1.4B. Concrete Expansion Anchor — (Not Shown) — 1/4 in. dia. by 3 in.long carbon steel, pre-assembled, nail drive expansion anchor withmushroom head driven into the web of the concrete block. Min.embedment in concrete block of 1-3/8 in. and evaluated in accordancewith ASTM E 488 to have ultimate load capacities of 980 lbs (tension)and 1400 lbs (shear) when used in 2000 psi concrete.5. Gypsum Board* — 1/2 in. thick, 4 ft wide, secured to furring channelswith wallboard fasteners (Item 6). Gypsum plaster not more than 1/16in. thick may be applied to wallboard in addition to joint treatment.AMERICAN GYPSUM CO —Types AG-C, AGX-C.BPB AMERICA INC—ProRoc Type C.CANADIAN GYPSUM COMPANY —Types C, IP-X2, IPC-AR.G-P GYPSUM CORP, SUB OFGEORGIA-PACIFIC CORP —Type 5.LAFARGE NORTH AMERICA INC —Types LGFC-C, LGFC-C/A.NATIONAL GYPSUM CO —Type FSW-C.PABCO GYPSUM, DIV OFPACIFIC COAST BUILDING PRODUCTS INC —Type PG-C —STANDARD GYPSUM L L C —Type SG-C.TEMPLE-INLAND FOREST PRODUCTS CORP —Type TG-C.UNITED STATES GYPSUM CO —Types C, IP-X2, IPC-AR.USG MEXICO S A DE C V —Types C, IP-X2, IPC-AR.6. Wallboard Fasteners — 1 in. long, self-drilling, self-tapping steelscrews with bugle heads. Fasteners attached to each furring channeland spaced 8 in. OC at butt joints and 12 in. OC in the field of theboard parallel with furring channels. Clearance between fasteners andedges of wallboard 3/4 in.7. Joint System — (Not shown) — Paper tape embedded in cementitiouscompound over joints. Paper tape and exposed screw heads coveredwith two layers of compound. Edges of compound feathered out.*Bearing the UL Classification Mark

DRAWINGS FOR:
Roca Point Partners
309 East Paces Ferry Road
Suite 825
Atlanta, GA 30305

THE FORUM
ATHLETIC
CLUB

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
DRAWN BY: 1 ARCH

AKA STUDIO, PC
Architects & Interiors
74 WOODSTOCK ROAD,
ROSWELL, GA. 30075
(770) 642-9030 info@akastudiopc.com

STATE OF GEORGIA
ROBERT A. ZAPPOLLA
CERTIFICATE NO. 034117
REGISTERED ARCHITECT

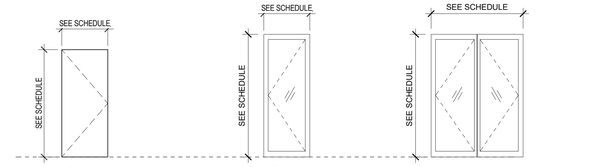
PROJECT #: O-2002

UL ASSEMBLIES - WALLS

A-7.02

DOOR SCHEDULE

Door Number	Location	DOOR						FRAME			Comments
		Type Mark	Width	Height	Thickness	Material	Finish	Fire Rating	Frame Type	Frame Material	Frame Finish	
100A	ENTRY FITNESS LEVEL 1	GARAGE DR.	16' - 0"	10' - 0"	0' - 2"	AL	KY		SEE MANUFACTURER	AL	KY	EXTERIOR - INSULATED
100B	ENTRY FITNESS LEVEL 1	A1-4A	7' - 0"	8' - 0"	0' - 2"	AL	KY		F4	AL	KY	EXTERIOR - INSULATED; CARD READER
100C	ENTRY FITNESS LEVEL 1	GARAGE DR.	16' - 0"	10' - 0"	0' - 2"	AL	KY		SEE MANUFACTURER	AL	KY	EXTERIOR - INSULATED
100D	FITNESS LOBBY LEVEL 1	A1-4A	6' - 0"	8' - 0"	0' - 2"	AL	KY		F4	AL	KY	EXTERIOR - INSULATED
101	FITNESS LOBBY LEVEL 1	A1-4A	6' - 0"	8' - 0"	0' - 2"	AL	KY		F4	AL	KY	EXTERIOR - INSULATED; CARD READER
102	TENANT LEVEL 1	A1-4A	6' - 0"	8' - 0"	0' - 2"	AL	KY		F4	AL	KY	
102A	TENANT LEVEL 1	A1-3	3' - 0"	8' - 0"	0' - 1 3/4"	AL	KY		F4	AL	KY	
107	JANITORS CLOSET LEVEL 1	A1-2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST		F1	HM	PT	
108	JANITORS CLOSET LEVEL 1	A1-2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST		F1	HM	PT	
109	LAUNDRY ROOM LEVEL 1	A1-2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST		F1	HM	PT	
110	RISER ROOM LEVEL 1	A1-7	3' - 0"	7' - 0"	0' - 1 3/4"	HM	ST		F1-1	HM	PT	EXTERIOR - INSULATED; CARD READER
200A	FITNESS LEVEL 2	A1-4A	6' - 0"	8' - 0"	0' - 2"	AL	KY		F4	AL	KY	
200B	FITNESS LEVEL 2	A1-4A	6' - 0"	8' - 0"	0' - 2"	AL	KY		F4	AL	KY	EXTERIOR - INSULATED; CARD READER
202A	LOBBY FAST TWITCH LEVEL 2	A1-4A	6' - 0"	8' - 0"	0' - 2"	AL	KY		F4	AL	KY	
202B	LOBBY FAST TWITCH LEVEL 2	A1-3	3' - 0"	8' - 0"	0' - 2"	AL	KY		F3	AL	KY	EXTERIOR - INSULATED; CARD READER
203A	FITNESS STORAGE CL. LEVEL 2	A1-2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST		F1	HM	PT	
203B	FITNESS STORAGE CL. LEVEL 2	A1-2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST		F1	HM	PT	
204	OFFICE LEVEL 2	A1-2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST		F1	HM	PT	
205	STAFF BREAK RM. LEVEL 2	A1-2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST		F1	HM	PT	
206	JANITORS CLOSET LEVEL 2	A1-2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST		F1	HM	PT	
207	RESTROOM LEVEL 2	A1-2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST		F1	HM	PT	
208	RESTROOM LEVEL 2	A1-2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST		F1	HM	PT	
209	LOBBY STORAGE LEVEL 2	A1-2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST		F1	HM	PT	
210	ELEVATOR MACHINE ROOM	A1-5	3' - 0"	7' - 0"	0' - 1 3/4"	WD	ST	90 MIN.	F1	HM	PT	



A1-1 SINGLE DOOR HINGED - HM
A1-1A SINGLE DOOR HINGED - HM 4" HEAD
A1-2 SINGLE DOOR HINGED - WD
A1-3 ALUM STOREFRONT DOOR - SINGLE
A1-4 ALUM STOREFRONT DOOR - DBL.
A1-4A ALUM STOREFRONT CURTAIN WALL DOOR

DOOR SCHEDULE NOTES:

1) WOOD DOORS TO BE FACTORY PREFINISHED.
2) COORDINATE FINAL LOCATIONS OF MAGNETIC DOOR HOLD-OPEN DEVICES WITH TENANT DRAWINGS, BEFORE INSTALLATION.
3) NO VISIBLE THROUGH-BOLTS TO BE USED FOR CLOSER INSTALLATION.

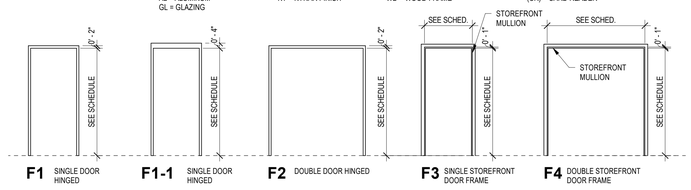
ABBREVIATIONS:

1) DOOR CONSTRUCTION:
SC = SOLID CORE
HM = HOLLOW METAL
AL = ALUMINUM
GL = GLAZING

2) FACING AND FINISH:
ST = STAIN
PT = PAINT
KY = KYNAR FINISH

3) DOOR FRAME CONSTRUCTION:
HM = HOLLOW METAL
AL = EXTRUDED ALUMINUM
WD = WOOD FRAME

4) OTHER:
(X) = EXTERIOR
(T) = TEMPERED GLASS PER SPECS.
(CR) = CARD READER



F1 SINGLE DOOR HINGED
F1-1 SINGLE DOOR HINGED
F2 DOUBLE DOOR HINGED
F3 SINGLE STOREFRONT DOOR FRAME
F4 DOUBLE STOREFRONT DOOR FRAME

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
DRAWN BY: 1 ARCH

DRAWINGS FOR:
Roca Point Partners
309 East Paces Ferry Road
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Atlanta, GA 30305

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CLUB

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STATE OF GEORGIA
ROBERT A. ZAPPOLLA
CERTIFICATE NO. RA031772
REGISTERED ARCHITECT

PROJECT #: O-2002

DOOR SCHEDULES

A-8.01

STOREFRONTS AND WINDOWS				
Elevation Type	Count	Width	Height	Comments
W-1	54	7' - 4"	7' - 4"	
W-2	1	7' - 6 7/8"	10' - 4"	
W-3	1	6' - 4 1/2"	10' - 4"	
W-4	1	6' - 4 1/2"	10' - 0"	
W-5	1	16' - 0"	10' - 0"	

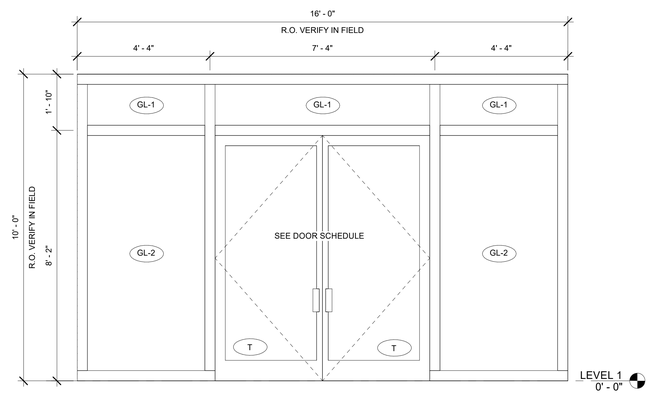
GLASS SCHEDULE

GL-1 CLEAR ONE INCH (1") INSULATED (LOW E) GLAZING SOLAR BAN 90 (2) GLAZING (CLEAR+CLEAR)
HEAT STRENGTHENED
SHGC: .23
U-VALUE: .29

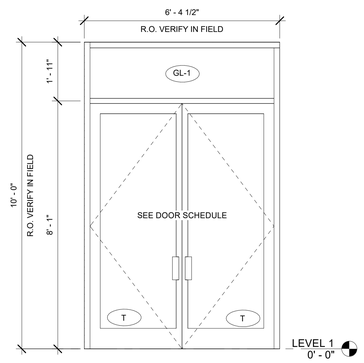
GL-2 CLEAR ONE INCH (1") INSULATED (LOW E) GLAZING SOLAR BAN 90 (2) GLAZING (CLEAR+CLEAR)
TEMPERED SAFETY GLAZING
SHGC: .23
U-VALUE: .29

GL-3 CLEAR 1/4" INTERIOR GLAZING

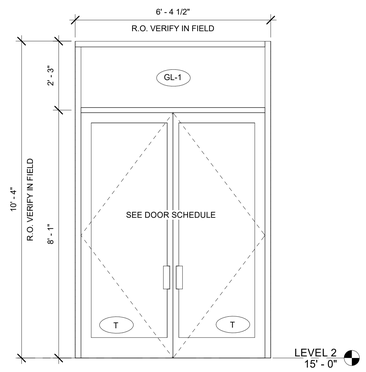
T TEMPERED



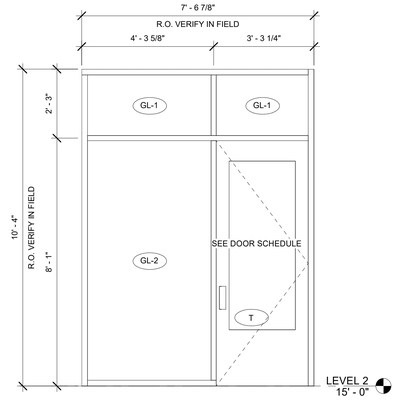
5 WINDOW SCHEDULE - W-5
SCALE 1/2" = 1'-0"



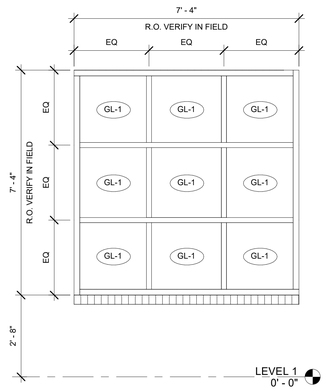
4 WINDOW SCHEDULE - W-4
SCALE 1/2" = 1'-0"



3 WINDOW SCHEDULE - W-3
SCALE 1/2" = 1'-0"



2 WINDOW SCHEDULE - W-2
SCALE 1/2" = 1'-0"



1 WINDOW SCHEDULE - W-1
SCALE 1/2" = 1'-0"

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
DRAWN BY: 1 ARCH

DRAWINGS FOR:
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STATE OF GEORGIA
ROBERT A. ZAPPOLLA
CERTIFICATE NO. 026172
REGISTERED ARCHITECT

PROJECT #: O-2002

WINDOW SCHEDULE

A-8.02

INTERIOR STOREFRONT GENERAL NOTES

1. ALL INTERIOR STOREFRONT MULLIONS TO RECEIVE DARK BRONZE FINISH.

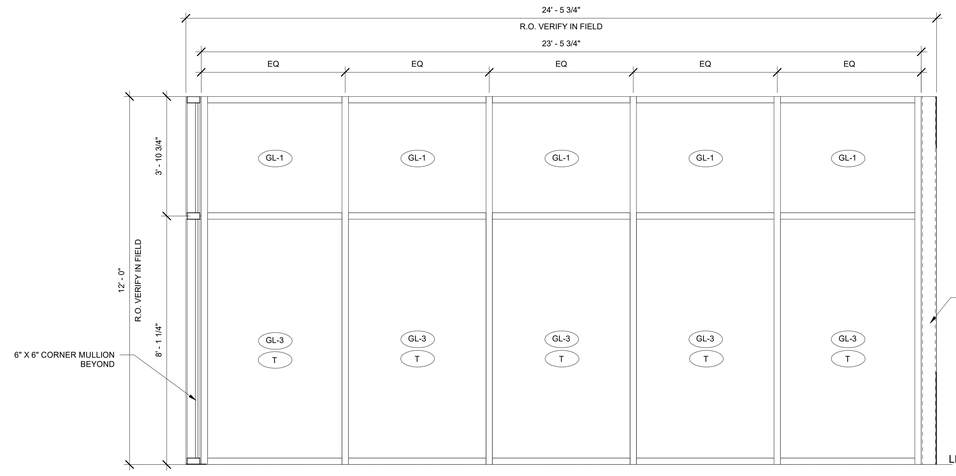
GLASS SCHEDULE

GL-1 CLEAR ONE INCH (1") INSULATED (LOW E) GLAZING SOLAR BAN 90 (2) GLAZING (CLEAR+CLEAR)
HEAT STRENGTHENED
SHGC: .23
U-VALUE: .29

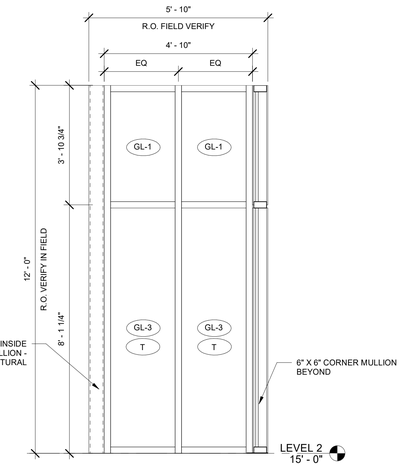
GL-2 CLEAR ONE INCH (1") INSULATED (LOW E) GLAZING SOLAR BAN 90 (2) GLAZING (CLEAR+CLEAR)
TEMPERED SAFETY GLAZING
SHGC: .23
U-VALUE: .29

GL-3 CLEAR 1/4" INTERIOR GLAZING

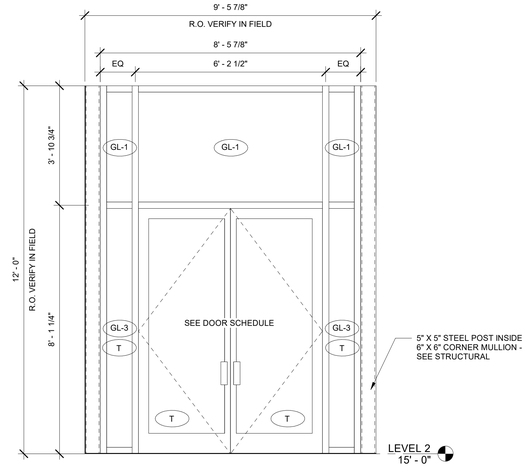
T TEMPERED



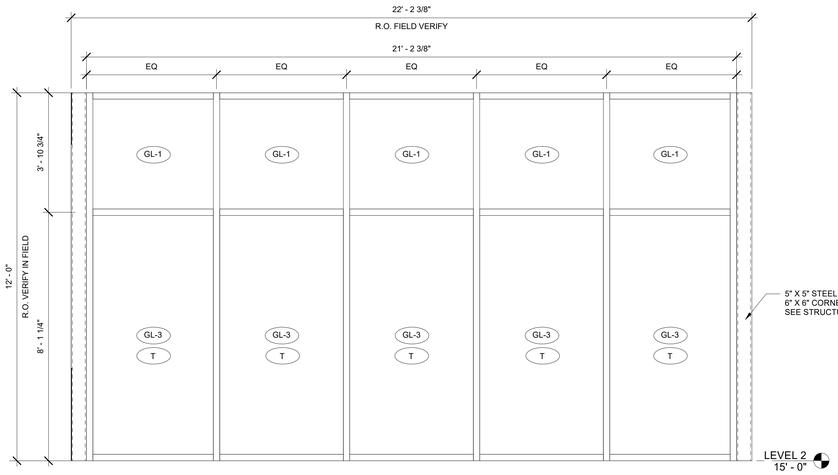
8 INTERIOR STOREFRONT SCHEDULE
SCALE 1/2" = 1'-0"



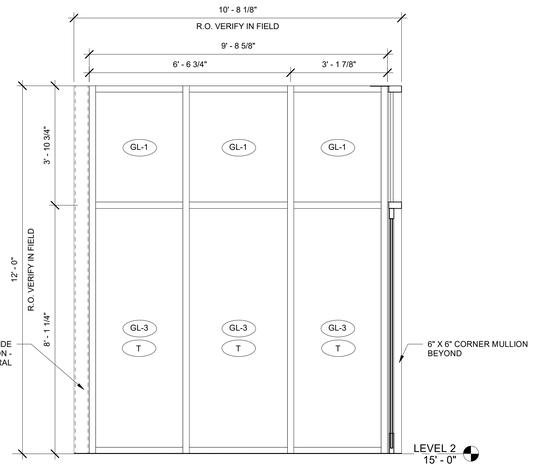
7 INTERIOR STOREFRONT SCHEDULE
SCALE 1/2" = 1'-0"



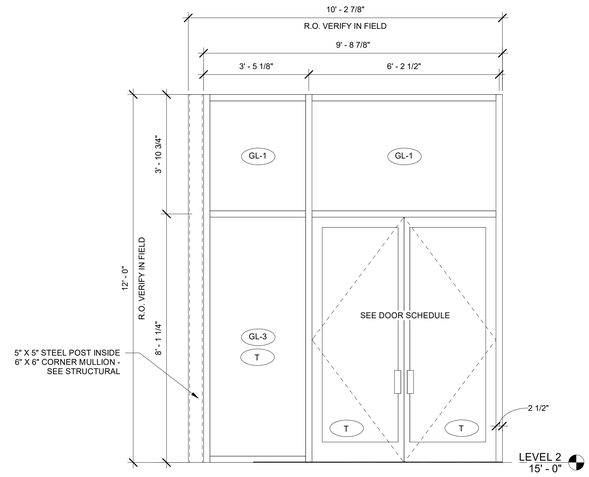
6 INTERIOR STOREFRONT SCHEDULE
SCALE 1/2" = 1'-0"



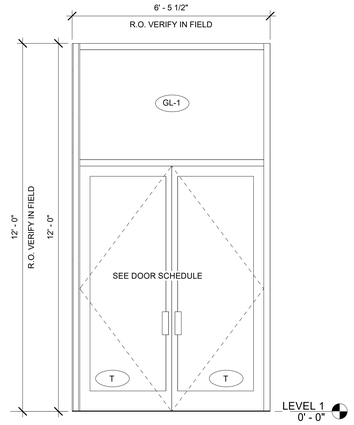
5 INTERIOR STOREFRONT SCHEDULE
SCALE 1/2" = 1'-0"



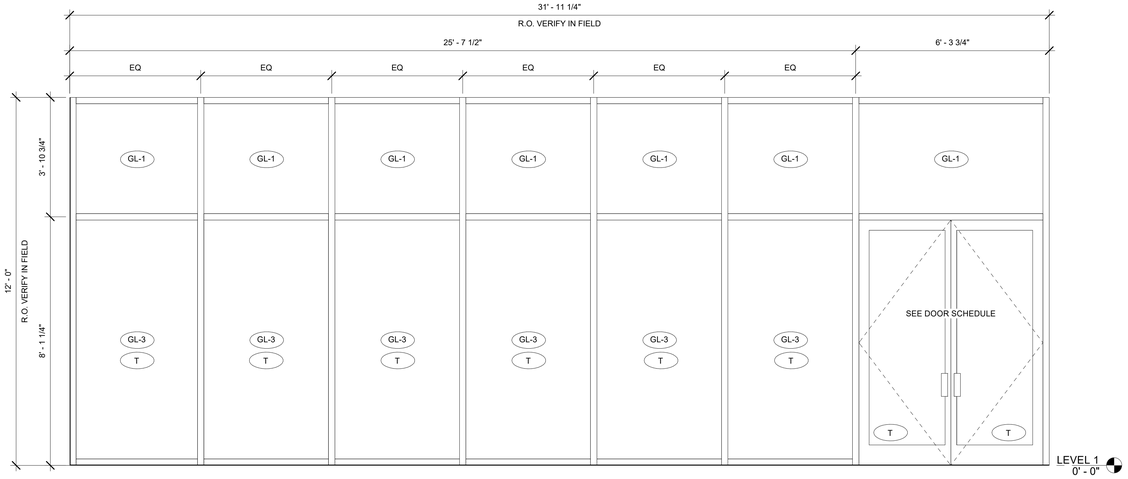
4 INTERIOR STOREFRONT SCHEDULE
SCALE 1/2" = 1'-0"



3 INTERIOR STOREFRONT SCHEDULE
SCALE 1/2" = 1'-0"



2 INTERIOR STOREFRONT SCHEDULE
SCALE 1/2" = 1'-0"



1 INTERIOR STOREFRONT SCHEDULE
SCALE 1/2" = 1'-0"

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
DRAWN BY: 1 ARCH

DRAWINGS FOR:
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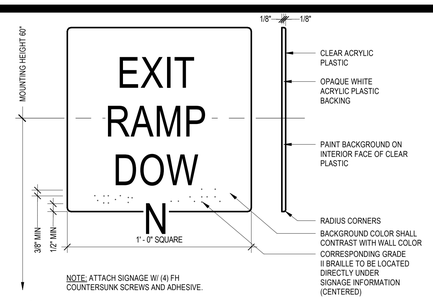
STATE OF GEORGIA
ROBERT A. ZAPPOLLA
CERTIFICATE NO. RA017172
REGISTERED ARCHITECT

PROJECT #: O-2002

INTERIOR STOREFRONT SCHEDULE

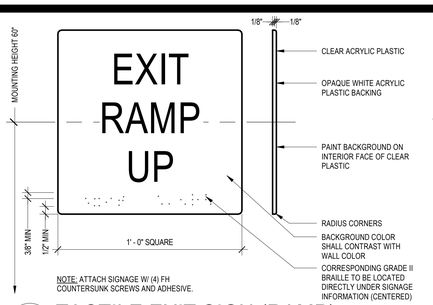
A-8.03



NOTE: ATTACH SIGNAGE W/ (4) FH COUNTERSUNK SCREWS AND ADHESIVE.

1 TACTILE EXIT SIGN (RAMP)

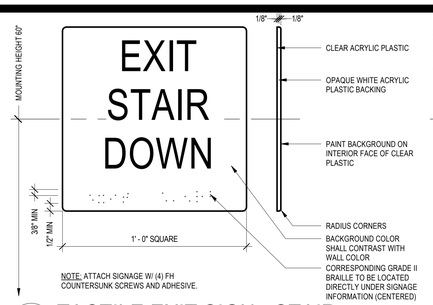
SCALE: 3" = 1'-0"



NOTE: ATTACH SIGNAGE W/ (4) FH COUNTERSUNK SCREWS AND ADHESIVE.

2 TACTILE EXIT SIGN (RAMP)

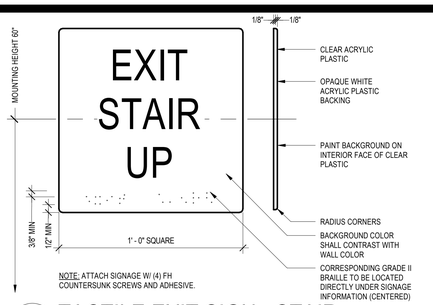
SCALE: 3" = 1'-0"



NOTE: ATTACH SIGNAGE W/ (4) FH COUNTERSUNK SCREWS AND ADHESIVE.

3 TACTILE EXIT SIGN - STAIR

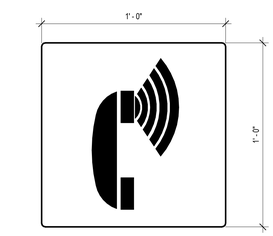
SCALE: 3" = 1'-0"



NOTE: ATTACH SIGNAGE W/ (4) FH COUNTERSUNK SCREWS AND ADHESIVE.

4 TACTILE EXIT SIGN - STAIR

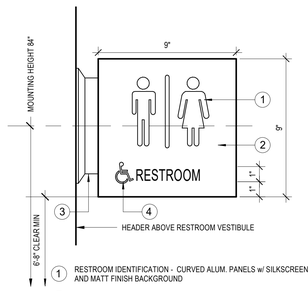
SCALE: 3" = 1'-0"



NOTE: ASSISTIVE LISTENING DEVICE IDENTIFICATION -1/4" ETCHED MAGNESIUM ALLOY WITH RAISED SYMBOL, PAINTED WITH MATTE PAINT

5 VOLUME CONTROL TELEPHONE

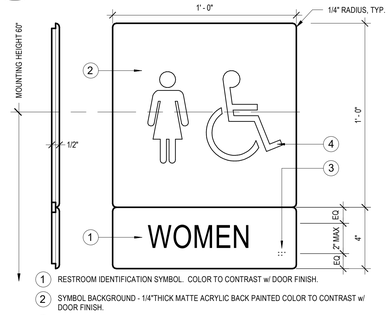
SCALE: 3" = 1'-0"



1. RESTROOM IDENTIFICATION - CURVED ALUM. PANELS w/ SILKSCREENED SYMBOLS AND MATT FINISH BACKGROUND
2. SYMBOL BACKGROUND - 1/4" THICK MATTE ACRYLIC BACK PAINTED COLOR TO CONTRAST w/ DOOR FINISH.
3. EXTRUDED ALUM. WALL ATTACHMENT
4. SYMBOL OF ACCESSIBILITY.

6 DOUBLE SIDED R.R. SIGNAGE

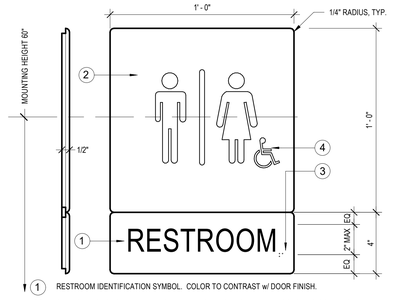
SCALE: 3" = 1'-0"



1. RESTROOM IDENTIFICATION SYMBOL. COLOR TO CONTRAST w/ DOOR FINISH.
2. SYMBOL BACKGROUND - 1/4"THICK MATTE ACRYLIC BACK PAINTED COLOR TO CONTRAST w/ DOOR FINISH.
3. CORRESPONDING GRADE II BRAILLE
4. SYMBOL OF ACCESSIBILITY.

7 WOMEN'S RESTROOM WALL MOUNTED SIGNAGE

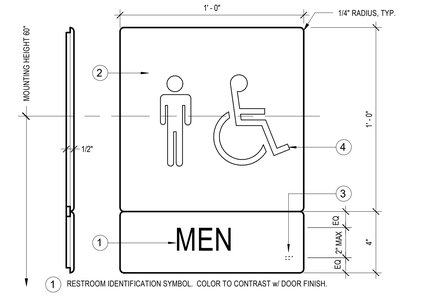
SCALE: 3" = 1'-0"



1. RESTROOM IDENTIFICATION SYMBOL. COLOR TO CONTRAST w/ DOOR FINISH.
2. SYMBOL BACKGROUND - 1/4"THICK MATTE ACRYLIC BACK PAINTED COLOR TO CONTRAST w/ DOOR FINISH.
3. CORRESPONDING GRADE II BRAILLE
4. SYMBOL OF ACCESSIBILITY.

8 MEN'S/WOMEN'S RESTROOM WALL MOUNTED SIGNAGE

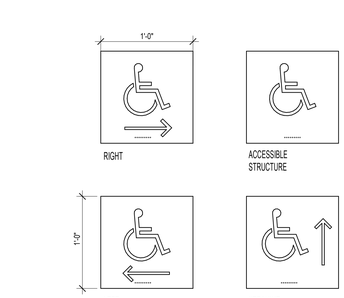
SCALE: 3" = 1'-0"



1. RESTROOM IDENTIFICATION SYMBOL. COLOR TO CONTRAST w/ DOOR FINISH.
2. SYMBOL BACKGROUND - 1/4" THICK MATTE ACRYLIC BACK PAINTED COLOR TO CONTRAST w/ DOOR FINISH.
3. CORRESPONDING GRADE II BRAILLE
4. SYMBOL OF ACCESSIBILITY.

9 MEN'S RESTROOM WALL MOUNTED SIGNAGE

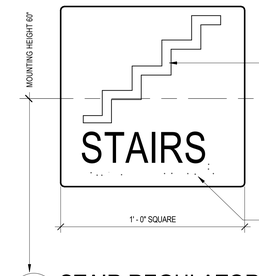
SCALE: 3" = 1'-0"



NOTE:
5/8"-2" UPPER CASE TEXT RAISED 1/32" IN SANS SERIF OR SIMPLE SERIF TYPEFACE WITH GRADE II BRAILLE

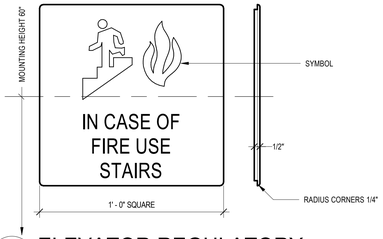
10 DIRECTIONAL WALL SYMBOLS

SCALE: 1 : 1



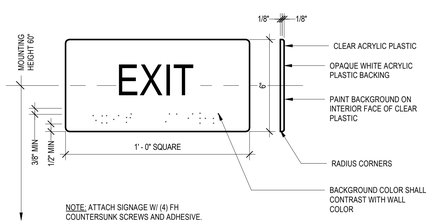
11 STAIR REGULATORY

SCALE: 3" = 1'-0"



12 ELEVATOR REGULATORY

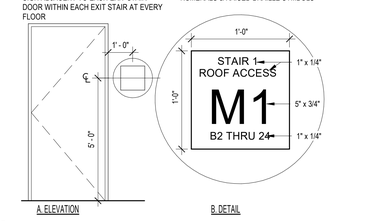
SCALE: 3" = 1'-0"



NOTE: ATTACH SIGNAGE W/ (4) FH COUNTERSUNK SCREWS AND ADHESIVE.

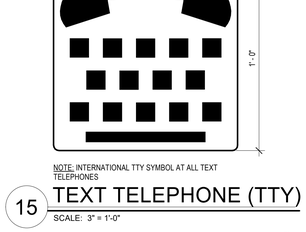
13 TACTILE EXIT SIGN

SCALE: 3" = 1'-0"



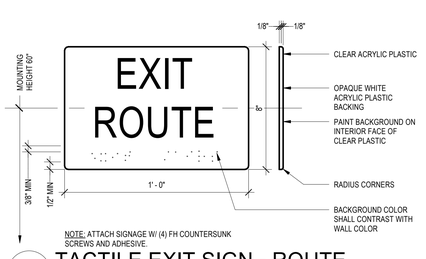
14 EXIT STAIR IDENTIFICATION SIGN

SCALE: 1 : 30



15 TEXT TELEPHONE (TTY)

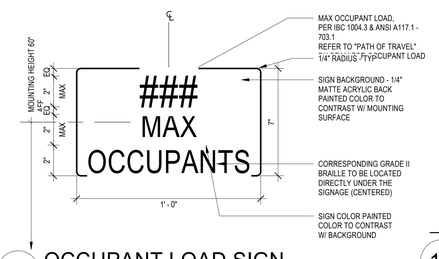
SCALE: 3" = 1'-0"



NOTE: ATTACH SIGNAGE W/ (4) FH COUNTERSUNK SCREWS AND ADHESIVE.

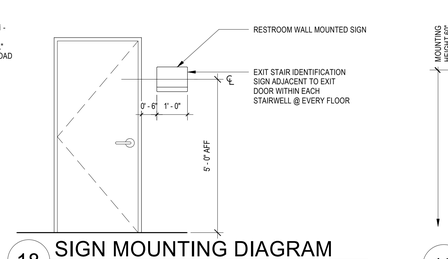
16 TACTILE EXIT SIGN - ROUTE

SCALE: 3" = 1'-0"



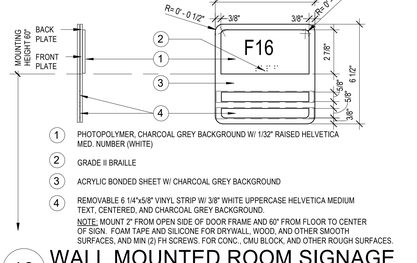
17 OCCUPANT LOAD SIGN

SCALE: 3" = 1'-0"



18 SIGN MOUNTING DIAGRAM

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

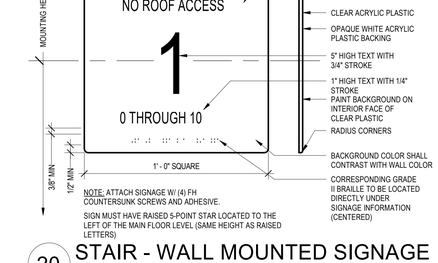


1. PHOTOPOLYMER, CHARCOAL GREY BACKGROUND W/ 1/32" RAISED HELVETICA MED. NUMBER (WHITE)
2. GRADE II BRAILLE
3. ACRYLIC BONDED SHEET W/ CHARCOAL GREY BACKGROUND
4. REMOVABLE 6 1/4"x5/8" VINYL STRIP W/ 3/8" WHITE UPPERCASE HELVETICA MEDIUM TEXT, CENTERED, AND CHARCOAL GREY BACKGROUND.

NOTE: MOUNT 2" FROM OPEN SIDE OF DOOR FRAME AND 60" FROM FLOOR TO CENTER OF SIGN. FOAM TAPE AND SILICONE FOR DRYWALL, WOOD, AND OTHER SMOOTH SURFACES, AND MIN (2) FH SCREWS. FOR CONC., CMU BLOCK, AND OTHER ROUGH SURFACES.

19 WALL MOUNTED ROOM SIGNAGE

SCALE: 3" = 1'-0"



NOTE: ATTACH SIGNAGE W/ (4) FH COUNTERSUNK SCREWS AND ADHESIVE.
SIGN MUST HAVE RAISED 5-POINT STAR LOCATED TO THE LEFT OF THE MAIN FLOOR LEVEL (SAME HEIGHT AS RAISED LETTERS)

20 STAIR - WALL MOUNTED SIGNAGE

SCALE: 3" = 1'-0"

1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32"MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE II BRAILLE..

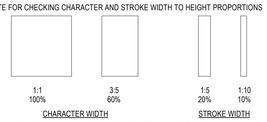
2. CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8"(15.9mm) AND A MAXIMUM OF 2" (51mm) HIGH.

3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH.

4. PROPORTIONS: CHARACTERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 1:5 AND 1:10.

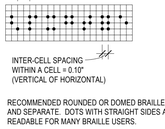
ALL LETTERS MEASURED MUST BE UPPERCASE. AFTER CHOOSING A TYPESTYLE TO TEST, BEGIN BY PRINTING THE LETTERS I, X AND O AT 1 INCH HIGH. PLACE THE TEMPLATE'S 1:1 SQUARE OVER THE X OR O, WHICHEVER IS NARROWER. IF THE CHARACTER IS NOT SMALLER THAN 1 INCH, NOR NARROWER THAN THE 3:5 RECTANGLE TO DETERMINE IF THE STROKE OF THE I IS TOO BROAD, AND THE 1:10 RECTANGLE TO SEE IF IT IS TOO NARROW. IF ALL THE TESTS ARE PASSED, THE TYPESTYLE IS COMPLIANT WITH PROPORTION CODE.

TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS

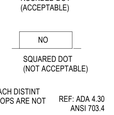


5. BRAILLE: GRADE II BRAILLE SHALL BE USED WHENEVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10"(2.54mm) ON CENTERS IN EACH CELL WITH .241"(6.08mm) SPACE BETWEEN CELLS, MEASURED M CELL. DOTS SHALL BE RAISED A MINIMUM OF
1/4" (0.635mm) ABOVE THE BACKGROUND.

BRAILLE CELL



BRAILLE DOT

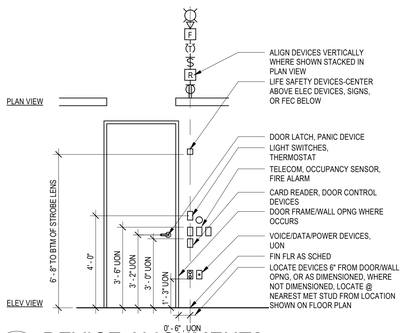


RECOMMENDED ROUNDED OR DOMED BRAILLED DOTS, EACH DISTINT AND SEPARATE. DOTS WITH STRAIGHT SIDES AND FLAT TOPS ARE NOT READABLE FOR MANY BRAILLE USERS.

REF: ADA 4.30 ANSI 703.4

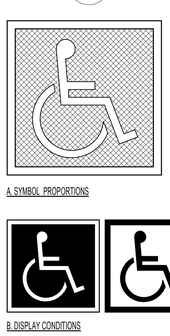
21 BRAILLE REQUIREMENTS

SCALE: 1 : 1



22 DEVICE ALIGNMENT2

SCALE: 3/8" = 1'-0"



NOTE:

SYMBOL SIZE SHALL BE AS SCHEDULED IN SIGN LAYOUT DIAGRAMS. STROKE WIDTH TO HEIGHT RATIO SHALL BE BETWEEN 1:5 & 1:10.

SIGN LETTERS/ NUMBERS WIDTH TO HEIGHT RATIO SHALL BE BETWEEN 1:5 & 1:10.

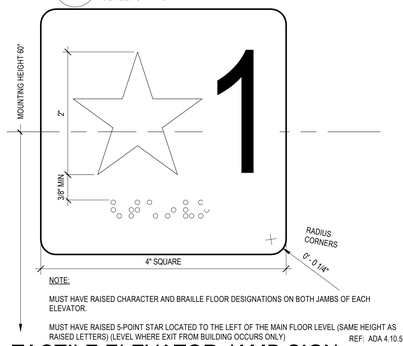
A. SYMBOL PROPORTIONS

B. DISPLAY CONDITIONS

REF: ADA 4.30, FIG. 30, ANSI 703.6

23 INTERNATIONAL ACCESSIBILITY SYMBOL

SCALE: 1 : 1



NOTE:

MUST HAVE RAISED CHARACTER AND BRAILLE FLOOR DESIGNATIONS ON BOTH JAMBS OF EACH ELEVATOR.

MUST HAVE RAISED 5-POINT STAR LOCATED TO THE LEFT OF THE MAIN FLOOR LEVEL (SAME HEIGHT AS RAISED LETTERS) (LEVEL WHERE EXIT FROM BUILDING OCCURS ONLY)

REF: ADA 4.10.5

24 TACTILE ELEVATOR JAMB SIGN

SCALE: 1 : 1

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
DRAWN BY: Author

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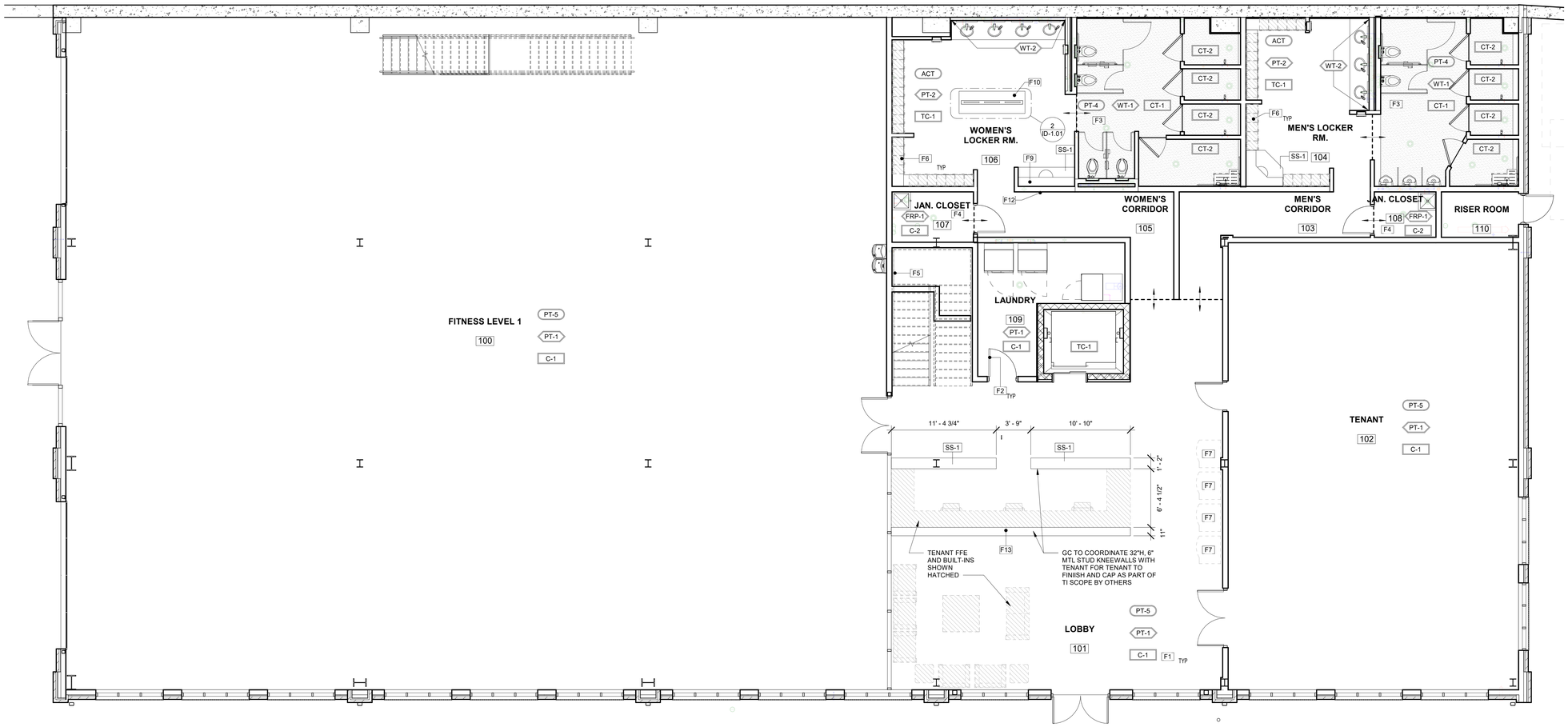
STATE OF GEORGIA
ROBERT A. ZAPPELLA
CERTIFICATE NO. 040105
REGISTERED ARCHITECT

PROJECT #: O-2002

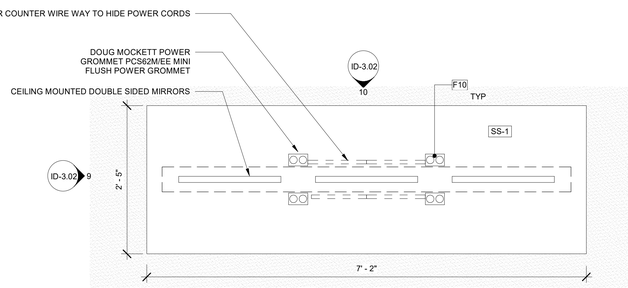
ADAAG SIGNAGE AND CLEARANCES

A-8.04



1 LEVEL 1 INTERIOR FINISH PLAN

SCALE 3/16" = 1'-0"



2 ENLARGED WOMEN'S MAKEUP COUNTER

SCALE 1" = 1'-0"

SYMBOL LEGEND

1 Ref / Ref A101 Ref / 1 Ref	ELEVATION MARKER
?	KEYNOTE
XXX-#	WALL FINISH
XXX-#	CEILING FINSH
XXX-#	FLOOR FINISH
	FLOOR TRANSITION

INTERIOR FINISH SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	STYLE	COLOR	SIZE	NOTES	MANUFACTURER REP
C-1	POLISHED CONCRETE	GC TO SOURCE	A-2	NATURAL	N/A		
C-2	SEALED CONCRETE	GC TO SOURCE		NATURAL	N/A		
TC-1	TEXTILE COMPOSITE	J+J FLOORING	KINETEX - BROOKSTONE		18"X36"		HEATHER CALLENDAR
CT-1	CERAMIC FLOOR TILE	FLORIDA TILE	NY2LA	CHELSEA BLACK	24"X24"		ELIZABETH ROPER
CT-2	CERAMIC FLOOR TILE	FLORIDA TILE	NY2LA	CHELSEA BLACK	2"X2"		ELIZABETH ROPER
LVT-1	LUXURY VINYL TILE	J+J FLOORING	TATAMI	KYOTO	18X36	5MM GLUE DOWN OR LOOSE LAY WITH PERIMETER GLUE	HEATHER CALLENDAR
B-1	RUBBER WALL BASE	ROPPE	PINNACL PLUS	TBD	4"		MICHELE MUSGROVE
B-2	CERAMIC TILE BASE	FLORIDA TILE	NY2LA	GRAMMERCY GRAY			ELIZABETH ROPER
PT-1	WALL PAINT	KOROSEAL - ZOLATONE	FLEX PURE	TBD	N/A		
PT-2	WALL PAINT	KOROSEAL - ZOLATONE	FLEX PURE	TBD	N/A		
PT-3	DOORS & FRAMES PAINT	SHERWIN WILLIAMS	SEMIGLOSS	TBD	N/A		
PT-4	GYP. CEILING PAINT	SHERWIN WILLIAMS	FLAT	TBD	N/A		
PT-5	EXPOSED CEILING PAINT	SHERWIN WILLIAMS	DRY FALL	TBD	N/A		
PL-1	PLASTIC LAMINATE	WILSONART	PREMIUM FINISH	TBD	N/A		
SS-1	SOLID SURFACE	WILSONART	QUARTZ	DINANT Q4030	3CM		
WT-1	WALL TILE	FLORIDA TILE	NY2LA	GRAMMERCY GRAY	12"X24"	1/8" GROUT TBD; PROVIDE 1/2" CEMENT BACKERBOARD	ELIZABETH ROPER
WT-2	WALL TILE	FLORIDA TILE	SOHO ALCHIMIA	PEARL	3"X12"	1/8" GROUT TBD; PROVIDE 1/2" CEMENT BACKERBOARD	ELIZABETH ROPER

INTERIOR FINISH KEYNOTES

KEY VALUE	KEYNOTE TEXT
F1	TYPICAL CONCRETE FLOORING. CONCRETE FLOORING THROUGHOUT TO BE POLISHED UNLESS NOTED OTHERWISE. CONTRACTOR TO PROVIDE A POLISHED CONCRETE FLOOR BY UTILIZING A MULTI-STEP GRINDING METHOD (25 GRIT METAL – 40 GRIT METAL – 80 GRIT METAL - 150 GRIT METAL – 200/400 COMBO RESIN AND BRING THE FLOORS UP TO A 400 RESIN). DENSIFIER TO BE ADDED BEFORE FINAL RESIN CUT – THEN APPLY GUARD AND BURNISH.
F2	DOOR PAINT THROUGHOUT. PROVIDE AND PAINT ALL DOORS AND FRAMES PT-3 UNLESS NOTED OTHERWISE.
F3	SCHLUTER TILE TRIM. PROVIDE AND INSTALL INSIDE/OUTSIDE CORNER, EDGE, AND COVE TRIMS WHERE INSTANCES OCCUR IN ALL RESTROOMS AND LOCKER ROOMS. SPECIFICATION: SCHLUTER - JOLLY SATIN ANODIZED ALUMINUM AND DILEX-AHK SATIN ANODIZED ALUMINUM.
F4	FLOOR TRANSITION - CERAMIC TILE TO CONCRETE. PROVIDE AND INSTALL FLOOR TRANSITION WHERE FLOOR TILE, CT-1, AND CONCRETE FLOORING TRANSITION. SPECIFICATION: SCHLUTER XXXXXX.
F5	STAIR FINISHES. PROVIDE AND PAINT ALL STAIR RAILINGS AND STRINGERS PT-3.
F6	LOCKERS. LOCKERS ARE PROVIDED BY TENANT.
F7	APPLIANCES. REFRIGERATOR, MICROWAVE, AND COFFEE MAKER ARE PROVIDED BY TENANT.
F9	TOWEL SHELVES. CONTRACTOR TO PROVIDE AND INSTALL ¾" THICK BY 12" DEEP WHITE MELAMINE SHELVES ON L BRACKETS WHERE INDICATED.
F10	POWER GROMMETS. CONTRACTOR TO PROVIDE AND INSTALL (4) DOUG MOCKETT MINI FLUSH POWER GROMMETS AND WIRE MANAGEMENT ON WOMEN'S MAKE UP COUNTER IN WOMEN'S LOCKER ROOM. SEE ENLARGED DETAIL PLAN 2/ID-1.01 FOR MORE INFORMATION. SPECIFICATION: DOUG MOCKETT MINI FLUSH POWER GROMMET PCS62M/EE COLOR: TBD
F11	BREAKROOM SINK AND FAUCET. CONTRACTOR TO PROVIDE AND INSTALL BREAKROOM UNDERCOUNTER SINK AND FAUCET WHERE INDICATED IN BREAKROOM. SINK SPECIFICATION: ELKAY ELUHAD211555. FAUCET SPECIFICATION: KOHLER LILYFIELD PRO K-R27459-SD.
F12	TOWEL ACCESS DOOR. CONTRACTOR TO PROVIDE AND INSTALL ¾" THICK PLYWOOD CLAD IN PLASTIC LAMINATE, PL-1; CABINET DOORS FLUSH IN WALL WHERE INDICATED FOR TOWEL ACCESS FROM CORRIDORS. SEE ELEVATIONS 1 & 2 ON ID-1.08 FOR MORE INFORMATION.
F13	MILLWORK. BREAKROOM AND RECEPTION DESK MILLWORK TO BE PROVIDED BY TENANT.

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
DRAWN BY: 2 ID

DRAWINGS FOR:
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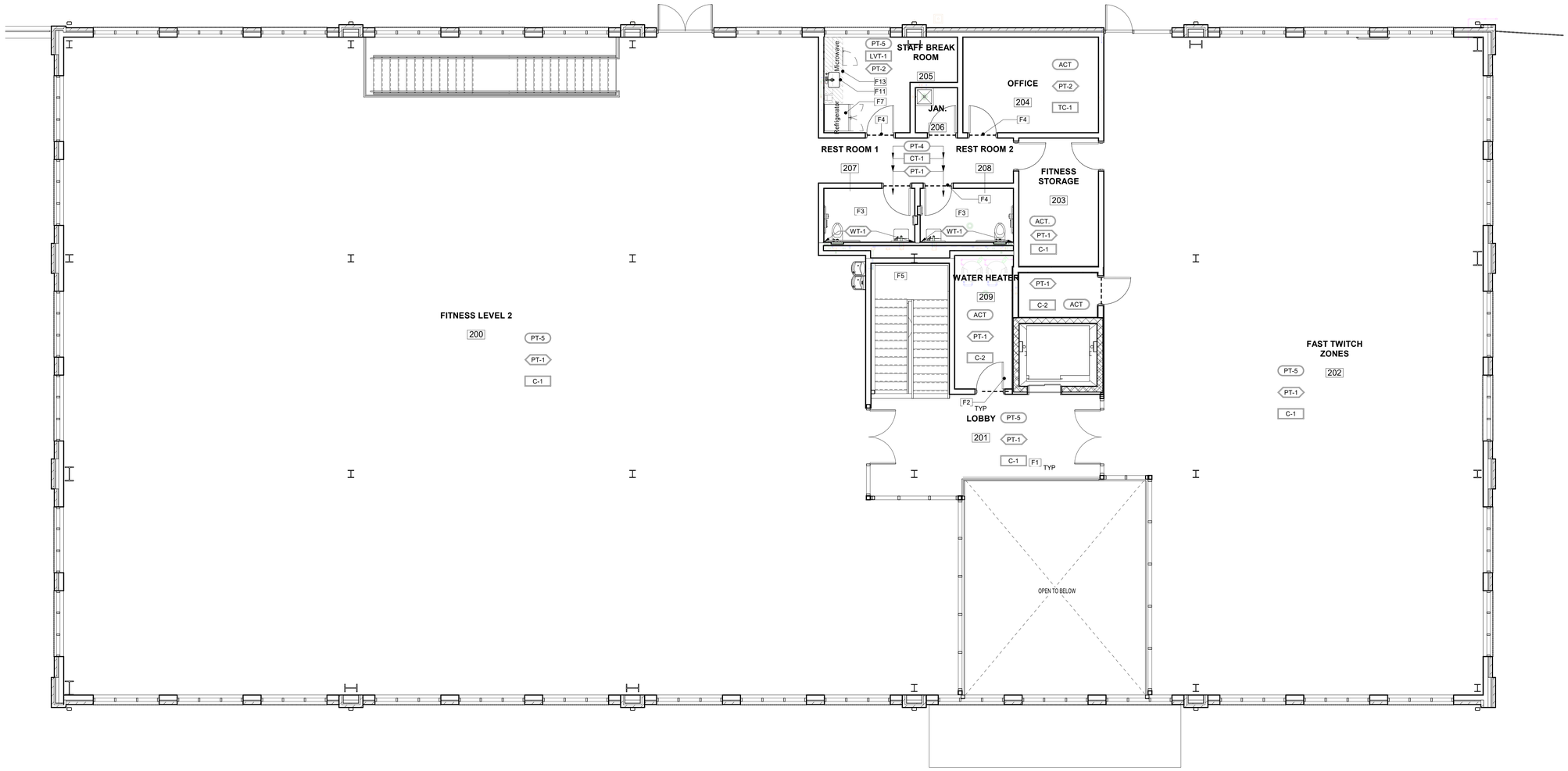
STATE OF GEORGIA
ROBERT E. ZAPPELLA
CERTIFICATE NO. 040777
REGISTERED ARCHITECT

PROJECT # O-2002

LEVEL 1 INTERIOR FINISH PLAN

ID-1.01



1 LEVEL 2 INTERIOR FINISH PLAN

SCALE 3/16" = 1'-0"

SYMBOL LEGEND

1 Ref / A101 / 1 Ref / 1 Ref	ELEVATION MARKER
?	KEYNOTE
XXX-#	WALL FINISH
XXX-#	CEILING FINISH
XXX-#	FLOOR FINISH
	FLOOR TRANSITION

INTERIOR FINISH SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	STYLE	COLOR	SIZE	NOTES	MANUFACTURER REP
C-1	POLISHED CONCRETE	GC TO SOURCE	A-2	NATURAL	N/A		
C-2	SEALED CONCRETE	GC TO SOURCE		NATURAL	N/A		
TC-1	TEXTILE COMPOSITE	J+J FLOORING	KINETEX - BROOKSTONE		18"X36"		HEATHER CALLENDAR
CT-1	CERAMIC FLOOR TILE	FLORIDA TILE	NY2LA	CHELSEA BLACK	24"X24"		ELIZABETH ROPER
CT-2	CERAMIC FLOOR TILE	FLORIDA TILE	NY2LA	CHELSEA BLACK	2"X2"		ELIZABETH ROPER
LVT-1	LUXURY VINYL TILE	J+J FLOORING	TATAMI	KYOTO	18X36	5MM GLUE DOWN OR LOOSE LAY WITH PERIMETER GLUE	HEATHER CALLENDAR
B-1	RUBBER WALL BASE	ROPPE	PINNACL PLUS	TBD	4"		MICHELE MUSGROVE
B-2	CERAMIC TILE BASE	FLORIDA TILE	NY2LA	GRAMMERCY GRAY			ELIZABETH ROPER
PT-1	WALL PAINT	KOROSEAL - ZOLATONE	FLEX PURE	TBD	N/A		
PT-2	WALL PAINT	KOROSEAL - ZOLATONE	FLEX PURE	TBD	N/A		
PT-3	DOORS & FRAMES PAINT	SHERWIN WILLIAMS	SEMIGLOSS	TBD	N/A		
PT-4	GYP. CEILING PAINT	SHERWIN WILLIAMS	FLAT	TBD	N/A		
PT-5	EXPOSED CEILING PAINT	SHERWIN WILLIAMS	DRY FALL	TBD	N/A		
PL-1	PLASTIC LAMINATE	WILSONART	PREMIUM FINISH	TBD	N/A		
SS-1	SOLID SURFACE	WILSONART	QUARTZ	DINANT Q4030	3CM		
WT-1	WALL TILE	FLORIDA TILE	NY2LA	GRAMMERCY GRAY	12"X24"	1/8" GROUT TBD; PROVIDE 1/2" CEMENT BACKERBOARD	ELIZABETH ROPER
WT-2	WALL TILE	FLORIDA TILE	SOHO ALCHIMIA	PEARL	3"X12"	1/8" GROUT TBD; PROVIDE 1/2" CEMENT BACKERBOARD	ELIZABETH ROPER

INTERIOR FINISH KEYNOTES

KEY VALUE	KEYNOTE TEXT
F1	TYPICAL CONCRETE FLOORING. CONCRETE FLOORING THROUGHOUT TO BE POLISHED UNLESS NOTED OTHERWISE. CONTRACTOR TO PROVIDE A POLISHED CONCRETE FLOOR BY UTILIZING A MULTI-STEP GRINDING METHOD (25 GRIT METAL – 40 GRIT METAL – 80 GRIT METAL- 150 GRIT METAL – 200/400 COMBO RESIN AND BRING THE FLOORS UP TO A 400 RESIN). DENSIFIER TO BE ADDED BEFORE FINAL RESIN CUT – THEN APPLY GUARD AND BURNISH.
F2	DOOR PAINT THROUGHOUT. PROVIDE AND PAINT ALL DOORS AND FRAMES PT-3 UNLESS NOTED OTHERWISE.
F3	SCHLUTER TILE TRIM. PROVIDE AND INSTALL INSIDE/OUTSIDE CORNER, EDGE, AND COVE TRIMS WHERE INSTANCES OCCUR IN ALL RESTROOMS AND LOCKER ROOMS. SPECIFICATION: SCHLUTER - JOLLY SATIN ANODIZED ALUMINUM AND DILEX-AHK SATIN ANODIZED ALUMINUM.
F4	FLOOR TRANSITION - CERAMIC TILE TO CONCRETE. PROVIDE AND INSTALL FLOOR TRANSITION WHERE FLOOR TILE, CT-1, AND CONCRETE FLOORING TRANSITION. SPECIFICATION: SCHLUTER XXXXXX.
F5	STAIR FINISHES. PROVIDE AND PAINT ALL STAIR RAILINGS AND STRINGERS PT-3.
F6	LOCKERS. LOCKERS ARE PROVIDED BY TENANT.
F7	APPLIANCES. REFRIGERATOR, MICROWAVE, AND COFFEE MAKER ARE PROVIDED BY TENANT.
F9	TOWEL SHELVES. CONTRACTOR TO PROVIDE AND INSTALL ¾" THICK BY 12" DEEP WHITE MELAMINE SHELVES ON L BRACKETS WHERE INDICATED.
F10	POWER GROMMETS. CONTRACTOR TO PROVIDE AND INSTALL (4) DOUG MOCKETT MINI FLUSH POWER GROMMETS AND WIRE MANAGEMENT ON WOMEN'S MAKE UP COUNTER IN WOMEN'S LOCKER ROOM. SEE ENLARGED DETAIL PLAN 2/ID-1.01 FOR MORE INFORMATION. SPECIFICATION: DOUG MOCKETT MINI FLUSH POWER GROMMET PCS62M/EE COLOR: TBD
F11	BREAKROOM SINK AND FAUCET. CONTRACTOR TO PROVIDE AND INSTALL BREAKROOM UNDERCOUNTER SINK AND FAUCET WHERE INDICATED IN BREAKROOM. SINK SPECIFICATION: ELKAY ELUHAD211555. FAUCET SPECIFICATION: KOHLER LILYFIELD PRO K-R27459-SD.
F12	TOWEL ACCESS DOOR. CONTRACTOR TO PROVIDE AND INSTALL ¾" THICK PLYWOOD CLAD IN PLASTIC LAMINATE, PL-1, CABINET DOORS FLUSH IN WALL WHERE INDICATED FOR TOWEL ACCESS FROM CORRIDORS. SEE ELEVATIONS 1 & 2 ON ID-1.08 FOR MORE INFORMATION.
F13	MILLWORK. BREAKROOM AND RECEPTION DESK MILLWORK TO BE PROVIDED BY TENANT.

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
DRAWN BY: Author

DRAWINGS FOR:
Roca Point Partners
309 East Paces Ferry Road
Suite 825
Atlanta, GA 30305

THE FORUM ATHLETIC CLUB

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ROSWELL, GA. 30075
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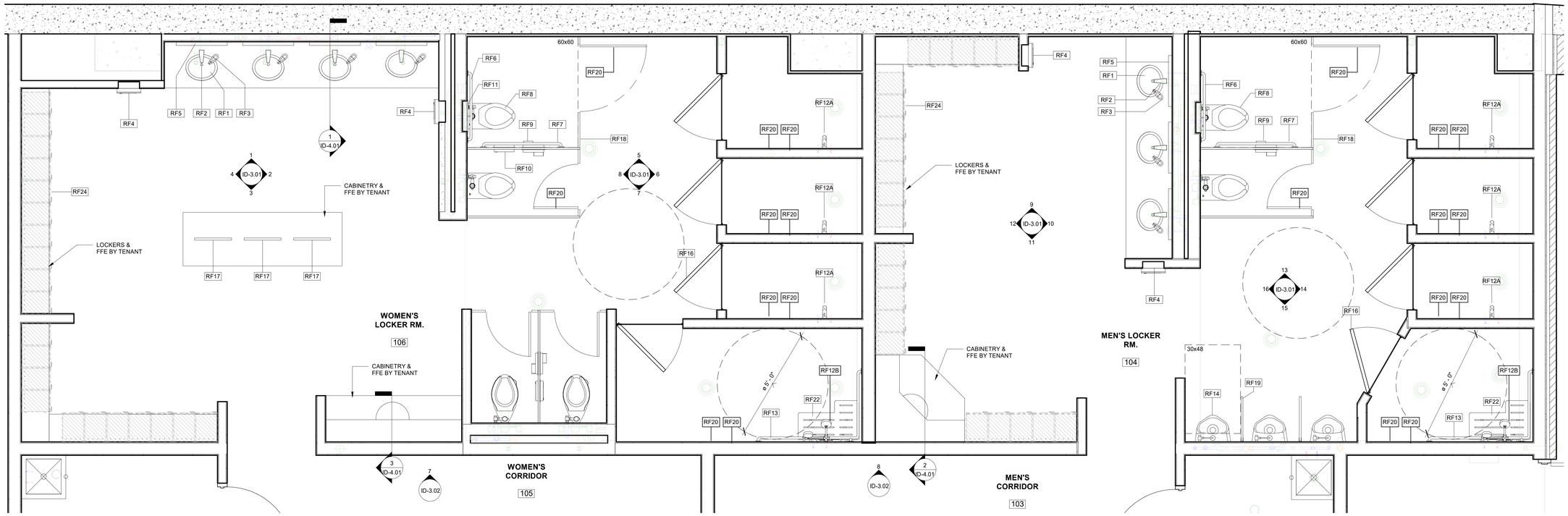
STATE OF GEORGIA
ROBERT A. ZAPPELLA
CERTIFICATE NO. 026777
REGISTERED ARCHITECT

PROJECT #: O-2002

LEVEL 2 INTERIOR FINISH PLAN

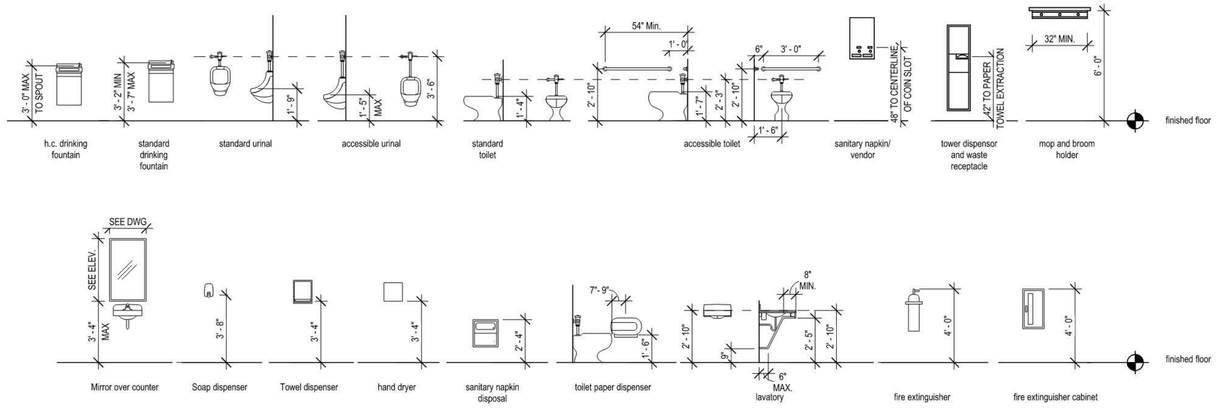
ID-1.02



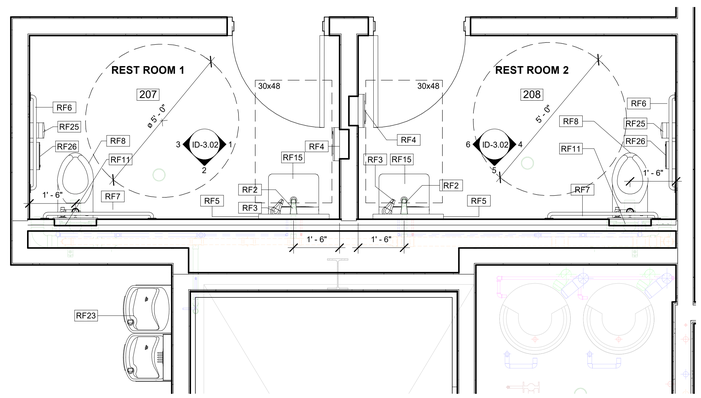
1 ENLARGED PLAN - RESTROOM AND LOCKER PLAN LEVEL 1

SCALE 1/2" = 1'-0"

TYPICAL MOUNTING HEIGHT



Note: Toilet accessories are shown for ada mounting height only and do not represent actual fixtures sepecified. See plumbing drawings and toilet accessory schedule for details.



2 ID ENLARGED PLAN - LEVEL 2 RESTROOMS

SCALE 1/2" = 1'-0"

RESTROOM FIXTURE SCHEDULE

TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL	FINISH	COMMENTS
RF1	OVAL UNDERCOUNTER SINK	AMERICAN STANDARD	OVALYN 0496.221	WHITE	
RF2	AUTOMATIC FAUCET	KOHLER	K-13461	BRUSHED NICKEL	
RF3	COUNTER MOUNTED AUTOMATIC SOAP DISPENSER	BOBRICK	B-2013	BRUSHED NICKEL	
RF4	SEMI-RECESSED COMBINATION TOWEL AND WASTE RECEPTACLE	BOBRICK	B-38032	STAINLESS STEEL	
RF5	OUTER ETCHED BACK LIT MIRROR	ELIO	69455.ELS.2436.30K-3P120		
RF6	36" GRAB BAR	BOBRICK	B-5806x36	STAINLESS STEEL	
RF7	42" GRAB BAR	BOBRICK	B-5806x42	STAINLESS STEEL	
RF8	AUTOMATIC FLUSH WALL HUNG TOILET	AMERICAN STANDARD	3351.576	WHITE	
RF9	TWO COMPARTMENT MULTI-ROLL TOILET TISSUE DISPENSER	BOBRICK	B-386	STAINLESS STEEL	
RF10	TWO COMPARTMENT SANITARY NAPKIN DISPOSAL	BOBRICK	B-354	STAINLESS STEEL	
RF11	RECESSED SEAT COVER DISPENSER	BOBRICK	B-3013	STAINLESS STEEL	
RF12A	SHOWER FAUCET	AMERICAN STANDARD	RELIANT 385.501.002	BRUSHED NICKEL	
RF12B	SHOWER FAUCET ADA	AMERICAN STANDARD	FLOWISE 1662.213.002	BRUSHED NICKEL	
RF13	TWO-WALL GRAB BAR	BOBRICK	B-5837	STAINLESS STEEL	
RF14	AUTOMATIC FLUSH URINAL	AMERICAN STANDARD	6042.633	WHITE	
RF15	WALL HUNG SINK	KOHLER	SOHO K-2084-R-0	WHITE	
RF16	SHOWER DOOR	GC TO SOURCE	FRAMELESS FROSTED 3/8" THICK TEMPERED GLASS	FROSTED	
RF17	CEILING HUNG DOUBLE SIDED MIRROR	GC TO SOURCE	CUSTOM MADE. SEE SECTIONS AND ELEVATIONS FOR MORE INFORMATION		
RF18	TOILET PARTITION	BOBRICK	B1041 DESIGNER SERIES FLOOR-ANCHORED	TBD	
RF19	URINAL SCREEN	BOBRICK	1040 SERIES	TBD	
RF20	DOUBLE MOUNTED ROBE HOOK	BOBRICK	B-6727	BRUSHED NICKEL	
RF21	SANITARY NAPKIN DISPENSER	BOBRICK	B-6727	BRUSHED NICKEL	
RF22	FOLDING SHOWER SEAT	BOBRICK	B-5181		
RF23	WATER FOUNTAIN WITH BOTTLE FILLER	ELKAY	LZSTL8WSLP - LHHS		
RF24	LOCKERS	PROVIDED BY TENANT	PROVIDED BY TENANT		

RESTROOM GENERAL NOTES

A. DO NOT SCALE OFF DRAWINGS.
B. ALL WET WALLS TO RECEIVE CERAMIC OR GLASS TILES TO HAVE CEMENT BACKER BOARD.
C. INSTALL CERAMIC, PORCELAIN, AND STONE TILES WITH MANUFACTURER'S MINIMUM RECOMMENDED GROUT WIDTH, U.N.O.
D. RESTROOMS:
   A. PUBLIC RESTROOMS SHALL BE ADA ACCESSIBLE ACCORDING TO LOCAL, STATE, AND FEDERAL STANDARDS AND CODES AS THEY APPLY.
   B. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS.
   C. INSTALL RIGID INSULATION PROTECTIVE COVERING AROUND ANY EXPOSED PLUMBING.
   D. MOUNTING HEIGHTS FOR ACCESSIBLE RESTROOMS:
      - WATER CLOSET: 17"-19" AFF MEASURED FROM TOP OF THE TOILET SEAT TO THE FLOOR
      - URINAL, WALL HUNG, WITH ELONGATED RIM: 17" AFF MAXIMUM
      - GRAB BARS: 33"-36" AFF TO TOP OF BAR
      - LAVATORY: 27" MINIMUM CLEARANCE FROM FLOOR TO BOTTOM OF APRON
      - MIRROR: BOTTOM EDGE OF VIEWING SURFACE AT 40" AFF MAXIMUM, U.N.O.
   E. ACCESSORIES:
      - ONE 42" AND ONE 36" GRAB BAR AT EACH HANDICAP STALL AS SHOWN
      - ONE FRAMED MIRROR MOUNTED OVER EACH LAVATORY
      - ONE COAT HOOK ON EACH STALL DOOR AND/OR EACH HANDICAP RESTROOM DOOR
      - AT LEAST ONE STAINLESS STEEL PAPER TOWEL DISPENSER PER RESTROOM
      - ONE STAINLESS STEEL TOILET TISSUE DISPENSER PER STALL AND/OR RESTROOM
      - ONE SURFACE MOUNTED SANITARY NAPKIN DISPOSAL UNIT PER WOMEN'S STALL AND/OR WOMEN'S RESTROOM

DATE	RELEASE
01.24.20	50% PROGRESS SET
02.07.20	75% PROGRESS SET
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: Checker
DRAWN BY: 2 ID

DRAWINGS FOR:
Roca Point Partners
309 East Paces Ferry Road
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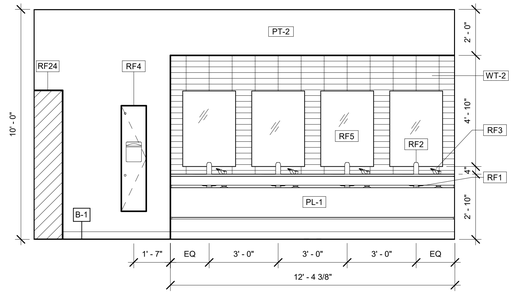
STATE OF GEORGIA
ROBERT A. ZAPPOLLA
CERTIFICATE NO. 39417-ID
REGISTERED ARCHITECT

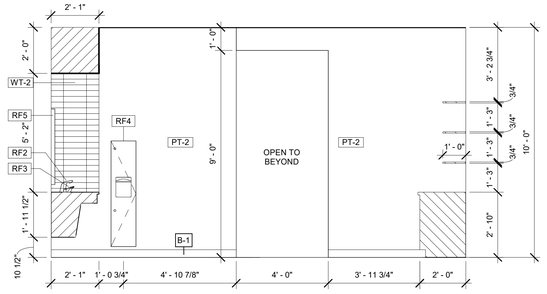
PROJECT #: O-2002

LOCKERS AND RESTROOMS

ID-2.01



1 WOMEN'S LOCKER ROOM - PLAN NORTH
SCALE 3/8" = 1'-0"



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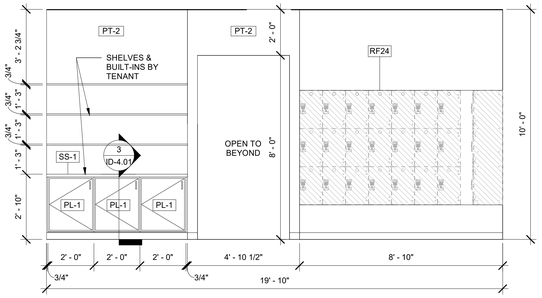

3 WOMEN'S LOCKER ROOM - PLAN SOUTH
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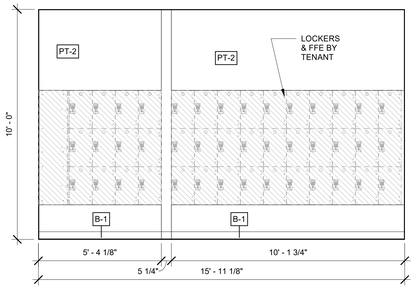

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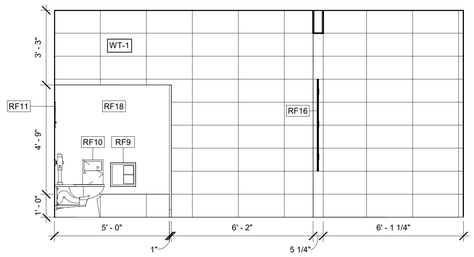
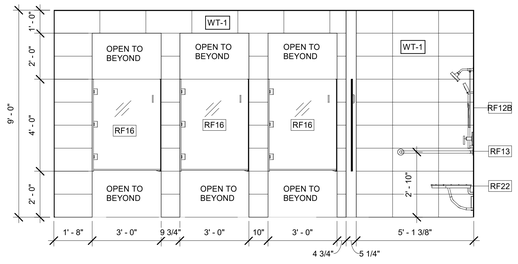


5 WOMEN'S SHOWERS - PLAN NORTH
SCALE 3/8" = 1'-0"



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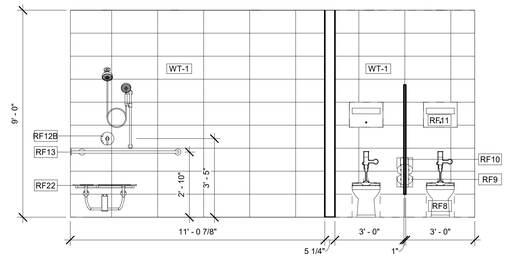

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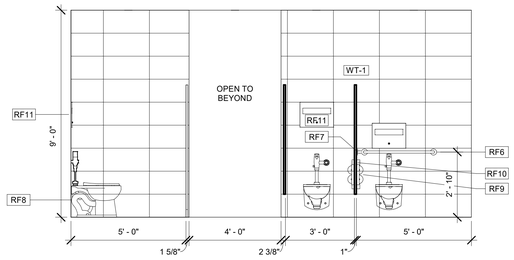
SCALE 3/8" = 1'-0"



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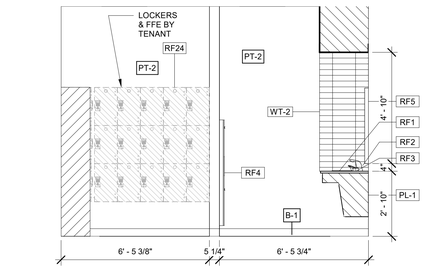
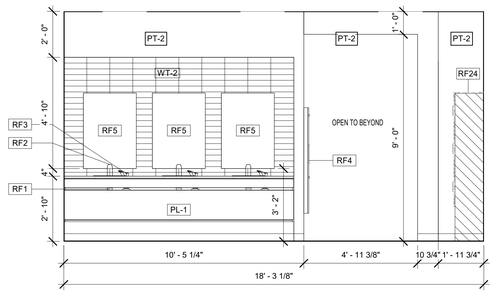
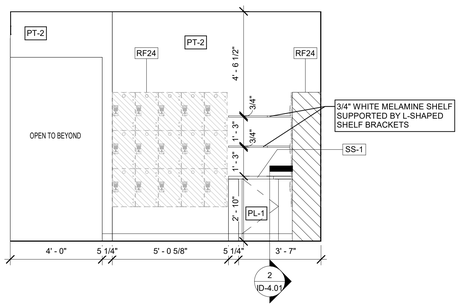
SCALE 3/8" = 1'-0"



9 MEN'S LOCKER ROOM - PLAN NORTH
SCALE 3/8" = 1'-0"



10 MEN'S LOCKER ROOM - PLAN EAST
SCALE 3/8" = 1'-0"



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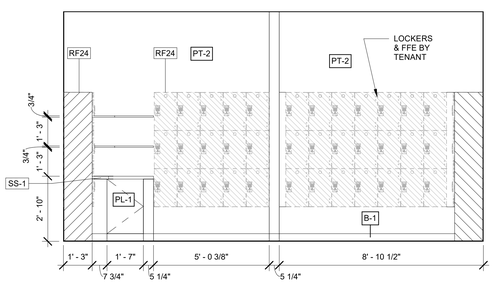

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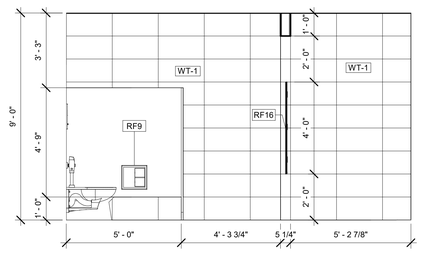

13 MEN'S SHOWERS - PLAN NORTH
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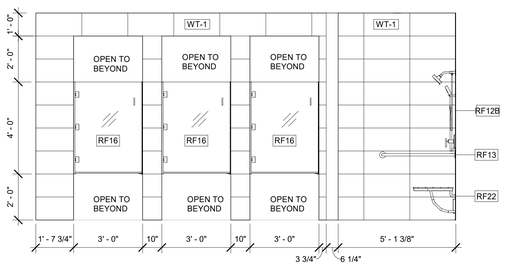

14 MENS' SHOWERS - PLAN EAST
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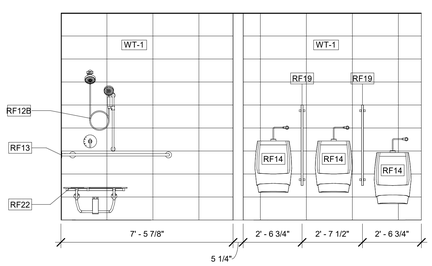

15 MEN'S SHOWERS - PLAN SOUTH
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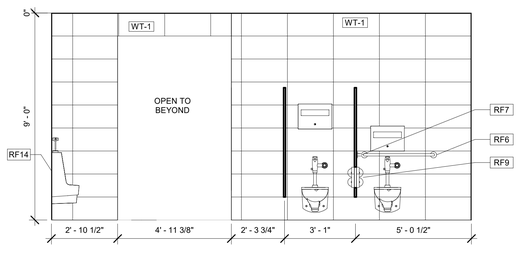

16 MEN'S SHOWERS - PLAN WEST
SCALE 3/8" = 1'-0"

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01.24.20	50% PROGRESS SET
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05.06.20	FOR PRICING

CHECKED BY: Checker
DRAWN BY: Author

DRAWINGS FOR:
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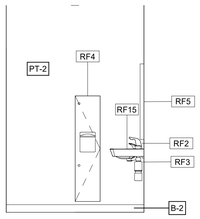
STATE OF GEORGIA
ROBERT A. ZAPPOLLA
CERTIFICATE NO. RA017172
REGISTERED ARCHITECT

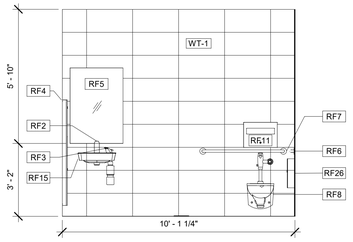
PROJECT #: D-2002

INTERIOR ELEVATIONS

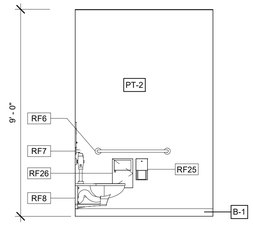
ID-3.01



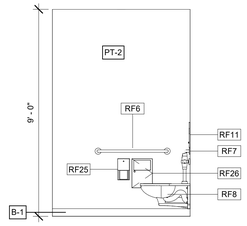
1 RESTROOM 1 - PLAN EAST
SCALE 3/8" = 1'-0"



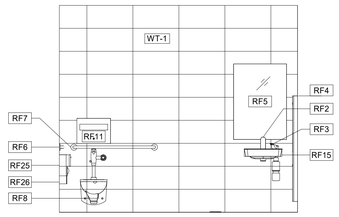
2 RESTROOM 1 - PLAN SOUTH
SCALE 3/8" = 1'-0"



3 RESTROOM 1 - PLAN WEST
SCALE 3/8" = 1'-0"



4 RESTROOM 2 - PLAN EAST
SCALE 3/8" = 1'-0"



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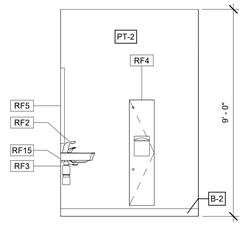
SCALE 3/8" = 1'-0"



6 RESTROOM 2 - PLAN WEST
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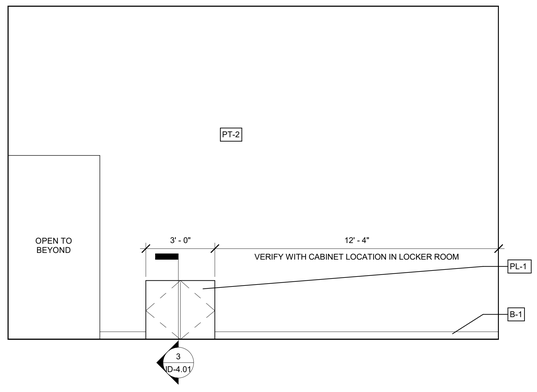
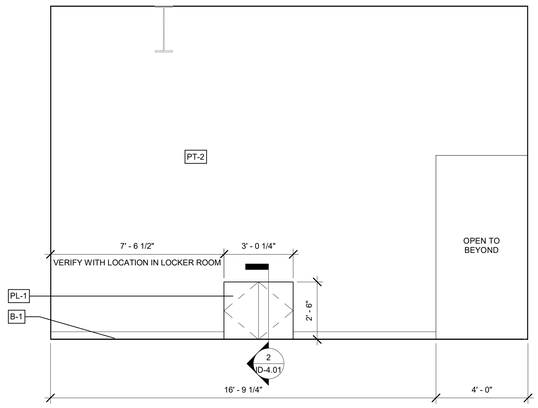
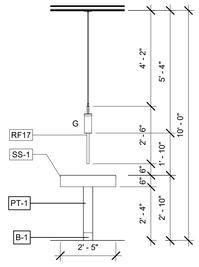


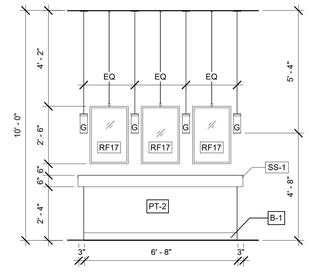
7 WOMEN'S CORRIDOR
SCALE 3/8" = 1'-0"



8 MEN'S CORRIDOR
SCALE 3/8" = 1'-0"



9 WOMEN'S MAKEUP COUNTER PLAN EAST
SCALE 3/8" = 1'-0"



10 WOMEN'S MAKEUP COUNTER PLAN SOUTH
SCALE 3/8" = 1'-0"

DATE	RELEASE
01.24.20	50% PROGRESS SET
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04.30.20	FOR CONSTRUCTION
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CHECKED BY: Checker
DRAWN BY: 2 ID

DRAWINGS FOR:
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Atlanta, GA 30305

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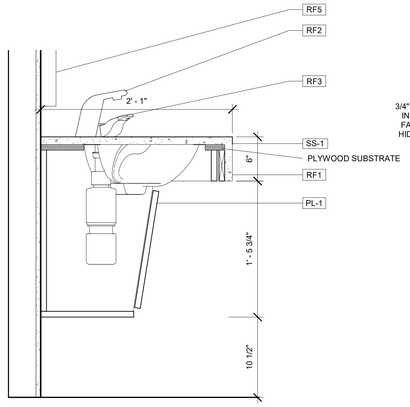
STATE OF GEORGIA
ROBERT A. ZAPPALLA
CERTIFICATE NO. 026777
REGISTERED ARCHITECT

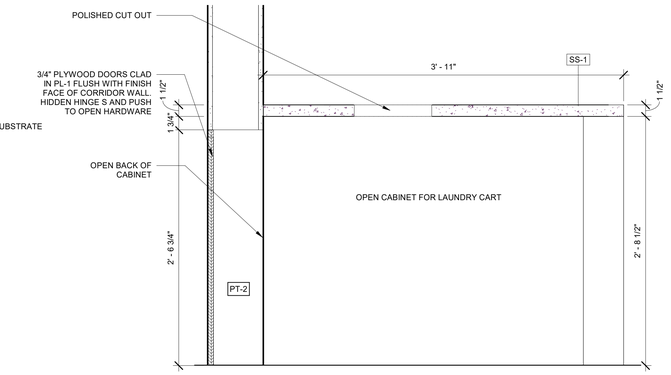
PROJECT #: O-2002

INTERIOR ELEVATIONS

ID-3.02



1 INTERIOR SECTION - LAVATORY
SCALE 1 1/2" = 1'-0"



2 SECTION - MEN'S TOWEL BASE CABINET
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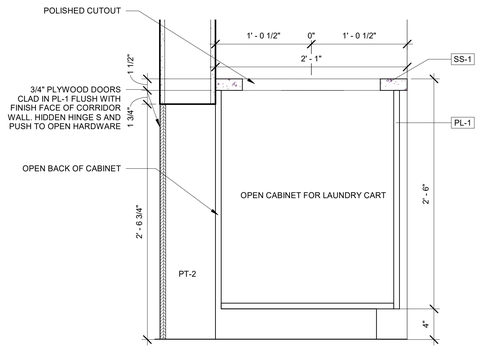

3 SECTION - WOMEN'S TOWEL CABINET
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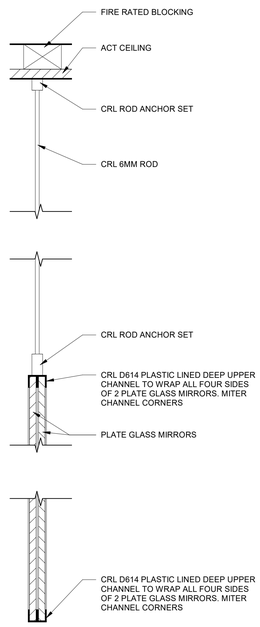

4 SECTION - CEILING HUNG MIRROR
SCALE 3" = 1'-0"

DATE	RELEASE
01.24.20	50% PROGRESS SET
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STATE OF GEORGIA
ROBERT A. ZAPPOLLA
CERTIFICATE NO. RA031772
REGISTERED ARCHITECT

PROJECT #: O-2002

INTERIOR SECTIONS
AND DETAILS

ID-4.01

ABBREVIATIONS

A	ADD'L	ADDITIONAL
	ADJ.	ADJACENT
	A/E	ARCHITECT/ENGINEER
	ALT.	ALTERNATE
	ARCH.	ARCHITECTURAL
	AFF	ABOVE FINISHED FLOOR
B	BM	BEAM
	BRG	BEARING
	BOT.	BOTTOM
	B/, BO	BOTTOM OF
	BLDG	BUILDING
C	CFMF	COLD FORMED METAL FRAMING
	CGS	CENTER OF GRAVITY OF STRAND
	CJ	CONTRACTION JOINT
	CL	CENTERLINE
	CLR	CLEAR
	CMU	CONCRETE MASONRY UNIT
	COL.	COLUMN
	COORD.	COORDINATE
	CONC.	CONCRETE
	CONN.	CONNECTION
	CONT.	CONTINUOUS
D	DBA	DEFORMED BAR ANCHOR
	DIM.	DIMENSION
	DWL	DOWEL
E	EA.	EACH
	EE	EACH END
	EF	EACH FACE
	ES	EACH SIDE
	EW	EACH WAY
	ELEV.	ELEVATION, ELEVATOR
	EMBED.	EMBEDMENT
	EQ.	EQUAL
	EXIST.	EXISTING
	EXP. JT.	EXPANSION JOINT
F	FTG	FOOTING
	FND	FOUNDATION
G	GALV.	GALVANIZED
	GC	GENERAL CONTRACTOR
	GR.	GRADE (MATERIAL)
H	HK	HOOK
	HORIZ.	HORIZONTAL
I	IF	INSIDE FACE
	INFO.	INFORMATION
J	JT	JOINT
K	K	KIPS
	KSF	KIPS PER SQUARE FOOT
L	LLH	LONG LEG HORIZONTAL
	LLV	LONG LEG VERTICAL
	LSH	LONG SIDE HORIZONTAL
	LSV	LONG SIDE VERTICAL
M	MANUF.	MANUFACTURER
	MAX.	MAXIMUM
	MECH.	MECHANICAL
	MEP	MECH, ELECTRICAL, PLUMBING
	MIN.	MINIMUM
	MISC.	MISCELLANEOUS
O	OC	ON CENTER
	OPNG	OPENING
	OPP.	OPPOSITE
	OH	OPPOSITE HAND
	OF	OUTSIDE FACE
	OSB	ORIENTED STRAND BOARD
P	PL.	PLATE
	PT	POST-TENSIONED
	PCF	POUNDS PER CUBIC FOOT
	PCY	POUNDS PER CUBIC YARD
	PSF	POUNDS PER SQUARE FOOT
	PSI	POUNDS PER SQUARE INCH
R	REINF.	REINFORCEMENT, REINFORCING
	REQ'D	REQUIRED
S	SCHED.	SCHEDULE
	SIM.	SIMILAR
	SOG	SLAB ON GROUND
	STIFF.	STIFFENER
	SYM.	SYMMETRIC
T	TEMP.	TEMPERATURE
	T&B	TOP AND BOTTOM
	T/, TO	TOP OF
	TYP.	TYPICAL
U	UNO	UNLESS NOTED OTHERWISE
V	VERT.	VERTICAL
W	WF	WIDE FLANGE
	WP	WORK POINT
	WWR	WELDED WIRE REINFORCEMENT
	W/	WITH

1.00 GENERAL

1.01 ALL CONSTRUCTION SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE WITH THE CURRENT GEORGIA STATE AMENDMENTS. REFERENCE TO OTHER STANDARD SPECIFICATIONS OR CODES SHALL MEAN THE BUILDING CODE ADOPTED EDITION OR THE NOTED EDITION, IF NOT BUILDING CODE ADOPTED.

1.02 VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AFFECTING NEW CONSTRUCTION BEFORE STARTING WORK. NOTIFY THE ARCHITECT OF ANY DISCREPANCY.

1.03 NOTIFY THE ARCHITECT IN WRITING OF CONDITIONS ENCOUNTERED IN THE FIELD CONTRADICTORY TO THOSE SHOWN IN THE CONTRACT DOCUMENTS.

1.04 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. THE STRUCTURAL SYSTEM AND ITS ELEMENTS SHALL NOT BE CONSIDERED STABLE UNTIL THE STRUCTURE IS COMPLETE.

1.05 COORDINATE STRUCTURAL CONTRACT DOCUMENTS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICT AND/OR OMISSION.

1.06 COORDINATE AND VERIFY FLOOR AND ROOF OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. FOR ADDITIONAL OPENINGS, INSERTS, SLEEVES, CURBS, PADS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.

1.07 THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF DIMENSIONS SHOWN ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS. NOTIFY THE ARCHITECT OF ANY DISCREPANCY BEFORE STARTING SHOP DRAWINGS OR ANY WORK. FOR DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.

1.08 REVIEW OF SHOP DRAWINGS AND OTHER SUBMITTALS BY THE ARCHITECT DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR IS ALSO RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.

1.09 CONSTRUCTION SHALL BE TESTED AND INSPECTED BY A QUALIFIED AGENCY IN ACCORDANCE WITH CHAPTER 17 OF THE BUILDING CODE. SEE SPECIFICATIONS FOR THE SCHEDULE OF SPECIAL INSPECTIONS AND ADDITIONAL REQUIREMENTS.

2.00 STRUCTURAL LOAD CRITERIA

2.01 RISK CATEGORY ______________________________ II

2.02 SUPERIMPOSED DEAD LOADS:

- ROOFING ______________________________ 10 PSF
- MISCELLANEOUS ROOF LOAD ________________ 10 PSF
- MISCELLANEOUS FLOOR LOAD _______________ 10 PSF

2.03 LIVE LOADS*:

- ELEVATED FLOORS ________________ 100 PSF/2000 LBS
- MECHANICAL ROOMS______________________ 150 PSF**
- ELEVATOR MACHINE ROOMS ________________ 150 PSF**
- ROOF ________________________________20 PSF*

* LIVE LOAD REDUCTION IS TAKEN IN ACCORDANCE WITH THE CODE.
** OR ACTUAL WEIGHT OF EQUIPMENT, WHICHEVER IS GREATER.

2.04 SNOW LOAD CRITERIA:

- GROUND SNOW LOAD _____________________ P_g = 5 PSF

2.05 RAIN LOAD CRITERIA:

- PRIMARY DRAINAGE SYSTEM RAIN INTENSITY (100-YEAR, 1-HOUR DURATION) ____________ I = 3.17 IN/HR
- SECONDARY DRAINAGE SYSTEM RAIN INTENSITY (100-YEAR, 15-MINUTE DURATION)___________ I = 7.08 IN/HR

2.06 WIND LOAD CRITERIA:

- BASIC DESIGN WIND SPEED ________________V = 105 MPH
- ALLOWABLE STRESS DESIGN WIND SPEED _______ V_{asd} = 63 MPH
- WIND EXPOSURE ______________________________ B
- INTERNAL PRESSURE COEFFICIENT ___________ G_{cpi} = ± 0.18
- COMPONENTS AND CLADDING BASIC DESIGN WIND PRESSURES (PSF):

	ZONE	EFFECTIVE WIND AREA (FT^2)		
		A < 10	A = 50	A > 100
WALLS	OTHER	±23	±21	±20
	CORNER	±28	±24	±22
ROOF	OTHER	±30	±26	±22
	EDGE	±47	±34	±28
	CORNER	±56	±35	±25
OVERHANGS	OTHER	±53	±44	±41
	CORNER	±70	±46	±42
PARAPETS	OTHER	±61	±45	±39
	CORNER	±69	±47	±46

NOTES:

1. WALL AND PARAPET ZONE CORNERS SHALL EXTEND 8'-0" FROM BUILDING AND PARAPET EDGES.
2. ROOF EDGE ZONES SHALL EXTEND 8'-0" FROM THE ROOF EDGES AND RIDGE.
3. ROOF CORNER ZONES SHALL EXTEND 8'-0" FROM THE TWO ADJACENT ROOF EDGES OR A ROOF EDGE AND THE ROOF RIDGE.
4. "+" INDICATES POSITIVE AND "-" INDICATES NEGATIVE PRESSURE (SUCTION).
5. FOR ALLOWABLE STRESS DESIGN, MULTIPLY TABULATED PRESSURES BY 0.6.
6. EFFECTIVE AREAS BETWEEN THOSE PROVIDED IN THE TABLE ABOVE MAY BE INTERPOLATED.

2.07 SEISMIC LOAD CRITERIA:

- SEISMIC IMPORTANCE FACTOR ________________ I_e = 1.0
- 0.2 SECOND SPECTRAL RESPONSE ACCELERATION __ S_S = 0.213g
- 1.0 SECOND SPECTRAL RESPONSE ACCELERATION ___ S_1 = 0.09g
- SITE CLASS _________________________________ D
- SITE COEFFICIENT ____________________________ F_a = 1.6
- SITE COEFFICIENT ____________________________ F_v = 2.4
- 0.2 SECOND SPECTRAL DESIGN RESPONSE ACCELERATION ____________ S_{DS} = 0.227g
- 1.0 SECOND SPECTRAL DESIGN RESPONSE ACCELERATION ____________ S_{D1} = 0.144g
- SEISMIC DESIGN CATEGORY _______________________ C
- BASIC SEISMIC FORCE RESISTING SYSTEM:

  STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
  RESPONSE MODIFICATION COEFFICIENT ___________ R = 3
  SYSTEM OVERSTRENGTH FACTOR ______________ Ω_o = 3
  DEFLECTION AMPLIFICATION FACTOR____________ C_d = 3
  NORTH/SOUTH:
  DESIGN BASE SHEAR ______________________155 KIPS
  SEISMIC RESPONSE COEFFICIENT____________ C_s = 0.068
  EAST/WEST:
  DESIGN BASE SHEAR ______________________175 KIPS
  SEISMIC RESPONSE COEFFICIENT____________ C_s = 0.076
- ANALYSIS PER EQUIVALENT LATERAL FORCE PROCEDURE

3.00 FOUNDATIONS AND SLAB-ON-GROUND

3.01 THE DESIGN OF FOUNDATIONS, RETAINING WALLS AND SLABS-ON-GROUND IS BASED ON THE CRITERIA ESTABLISHED IN THE GEOTECHNICAL REPORT BY CONTOUR ENGINEERING DATED FEBRUARY 28, 2020. FOUNDATION SIZES ARE BASED ON AN ALLOWABLE BEARING PRESSURE OF 2500 PSF.

3.02 RETAINING WALLS ARE BASED ON THE FOLLOWING CRITERIA:

- EQUIVALENT LATERAL FLUID PRESSURE, ACTIVE_______ 43.3 PCF
- EQUIVALENT LATERAL FLUID PRESSURE, AT REST______63.6 PCF
- EQUIVALENT LATERAL FLUID PRESSURE, PASSIVE _____ 166 PCF
- COEFFICIENT OF FRICTION__________________________ 0.53

3.03 THE SPECIAL INSPECTOR SHALL INSPECT THE CONDITION AND ASSURE THE ADEQUACY OF ALL SUBGRADES, FILLS AND BACKFILLS BEFORE PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, AND WALLS AND SHALL SUBMIT REPORTS TO THE ARCHITECT DESCRIBING THE FINDINGS INCLUDING ANY NON-CONFORMING WORK.

3.04 SIDES OF FOUNDATIONS SHALL BE FORMED UNLESS CONDITIONS PERMIT EARTH FORMING. FOUNDATIONS POURED AGAINST THE EARTH REQUIRE THE FOLLOWING PRECAUTIONS: SLOPE SIDES OF EXCAVATIONS AS APPROVED BY THE ARCHITECT AND CLEAN UP SLOUGHING BEFORE AND DURING CONCRETE PLACEMENT.

3.05 WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN ONE VERTICAL TO TWO HORIZONTAL.

3.06 BASEMENT WALLS (WALLS SUPPORTED AT THE TOP AND BOTTOM BY SLABS) REQUIRE THE FOLLOWING PRECAUTION: DO NOT BACKFILL AGAINST THE WALL BEFORE THE SLABS AT TOP AND BOTTOM ARE CAST AND HAVE REACHED 75% OF DESIGN STRENGTH.

3.07 UNLESS NOTED OTHERWISE, SLABS-ON-GROUND SHALL BE MINIMUM 5" THICK, UNREINFORCED, PLACED ON COMPACTED SUBGRADE. PROVIDE 2-LAYERS OF 15 MIL MINIMUM POLYETHYLENE VAPOR BARRIER BENEATH THE FLOOR SLAB WITH JOINTS LAPPED NOT LESS THAN 6 INCHES AND TAPED. PLACE CONTRACTION JOINTS WHERE SHOWN ON PLANS, AT COLUMN LINES AND AT INTERMEDIATE LINES SUCH THAT SPACING BETWEEN JOINTS DOES NOT EXCEED 12'-6", AND ASPECT RATIO OF PANELS DOES NOT EXCEED 1.5. LOCATE CONSTRUCTION JOINTS AT CONTRACTION JOINTS. PROVIDE A 6" SUBBASE LAYER OF COMPACTED GRADED AGGREGATE BENEATH THE VAPOR RETARDER.

4.00 REINFORCED CONCRETE

4.01 ALL CONCRETE WORK SHALL CONFORM TO ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". DESIGN IS BASED ON ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".

4.02 CONCRETE MIX DESIGNS SHALL COMPLY WITH THE FOLLOWING:

USE	MINIMUM 28-DAY STRENGTH	UNIT WEIGHT	NOMINAL MAX. AGGREGATE	MAX. w/c	EXPOSURE CLASS	AIR CONTENT
FOUNDATIONS	3000 PSI	NORMAL	1"	0.50	F0	-
RETAINING WALLS	3500 PSI	NORMAL	3/4"	0.50	F1	5±1.5
5" SLAB-ON-GROUND	3500 PSI	NORMAL	1-1/2"	0.50	F0	-
SLABS ON STEEL DECK	3000 PSI	NORMAL	3/4"	0.45	F0	-
ALL OTHER CONCRETE	3000 PSI	NORMAL	3/4"	0.50	F0	-

4.03 CONCRETE MIX DESIGNS, IN ACCORDANCE WITH ACI 301 SECTION 4.2.3, SHALL BE SUBMITTED TO THE TESTING AGENCY AND THE ARCHITECT.

4.04 THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE SPECIAL INSPECTOR. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S.

4.05 USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS NOT PERMITTED.

4.06 THE AIR CONTENT IN ALL CONCRETE EXPOSED TO WEATHER AT POINT OF PLACEMENT SHALL BE PROPORTIONED ACCORDING TO ACI 301 TABLE 4.2.2.7(b)1 FOR EXPOSURE CLASS F1. PROVIDE AIR CONTENT THAT COMPLIES WITH FLOOR SYSTEM FIRE RATING REQUIREMENTS.

4.07 UNLESS NOTED OTHERWISE, SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN BY THE TESTING AGENCY NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 100 CUBIC YARDS OF CONCRETE, NOR LESS THAN ONCE FOR EACH 5000 SQUARE FEET OF SURFACE AREA FOR SLABS AND WALLS. WHEN FREQUENCY OF TESTING WILL PROVIDE FEWER THAN FIVE TESTS FOR EACH CONCRETE MIX, TEST SAMPLES SHALL BE MADE FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE BATCHES ARE USED. SAMPLE CONCRETE IN ACCORDANCE WITH ASTM C172. PERFORM THE FOLLOWING TESTS IN ACCORDANCE WITH THE INDICATED STANDARD:

- SLUMP _______________________________ ASTM C143
- AIR CONTENT:
  NORMAL WEIGHT CONCRETE _______________ ASTM C231
  FOR LIGHTWEIGHT CONCRETE______________ ASTM C173
- COMPRESSIVE STRENGTH:
  ASTM C39, WITH (1) CYLINDER AT 7 DAYS, (2) 6"X12" CYLINDERS OR (3) 4"X8" CYLINDERS AT 28 DAYS, AND (1) SPECIMEN HELD IN RESERVE
- UNIT WEIGHT:
  LIGHTWEIGHT CONCRETE __________________ ASTM C567

4.08 BEGIN CURING SLABS IMMEDIATELY AFTER FINISHING CONCRETE PER PROJECT SPECIFICATIONS. CURING METHOD SHALL BE COMPATIBLE WITH ADHERED FINISHES. A MOIST CURE OR DISSIPATING CURING COMPOUND SHALL BE USED AT CEMENTITIOUS FINISHES. SUBMIT PRODUCT DATA TO THE ARCHITECT FOR REVIEW.

4.09 HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED ONLY WHERE INDICATED. THE ARCHITECT SHALL APPROVE THE LOCATION OF VERTICAL CONSTRUCTION JOINTS. CONSTRUCTION JOINTS SHALL BE THOROUGHLY ROUGHENED BY MECHANICAL MEANS AND CLEANED.

4.10 UNLESS NOTED OTHERWISE, PLACE VERTICAL CONTRACTION JOINTS IN CONCRETE WALLS AT 20'-0" (MAXIMUM), NOT TO EXCEED THREE TIMES THE HEIGHT OF THE WALL, 3/4" DEEP, V-CHAMFERED ON BOTH FACES. CONSTRUCTION JOINTS SHALL FALL ON CONTRACTION JOINTS AND SHALL BE KEYED. STOP 50 PERCENT OF THE SPECIFIED LONGITUDINAL REINFORCING AT THE CONTRACTION/CONSTRUCTION JOINT.

4.11 CHAMFER OR ROUND ALL EXPOSED CORNERS MINIMUM 3/4".

4.12 DETAIL CONCRETE REINFORCING AND ACCESSORIES IN ACCORDANCE WITH ACI "DETAILING MANUAL", SP-66(04). SUBMIT SHOP DRAWINGS FOR APPROVAL, SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL AND ACCESSORIES. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED.

4.13 DETAIL ALL CONCRETE WALLS AND BEAMS IN ELEVATION UNLESS SPECIFICALLY APPROVED OTHERWISE. CUT SECTIONS SHOWING BAR LOCATIONS AND CONCRETE COVER.

4.14 REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE.

4.15 WELDED WIRE REINFORCEMENT (MESH) SHALL CONFORM TO ASTM A1064 AND SHALL BE PROVIDED IN FLAT SHEETS (ROLLS NOT PERMITTED). LAP TWO SQUARES AT SPLICES.

4.16 TIE ALL REINFORCING STEEL AND EMBEDMENTS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF REINFORCING WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES. "STICKING" DOWELS INTO WET CONCRETE IS NOT PERMITTED.

4.17 PROVIDE CONTINUOUS REINFORCING WHEREVER POSSIBLE; SPLICE ONLY AS SHOWN OR APPROVED; STAGGER SPLICES WHERE POSSIBLE; USE CLASS "B" TENSION SPLICE UNLESS NOTED OTHERWISE. DOWELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED REINFORCING AND SHALL BE LAPPED WITH CLASS "B" TENSION SPLICES. UNLESS NOTED OTHERWISE LAP LENGTHS EXPRESSED IN NUMBER OF BAR DIAMETERS SHALL BE AS FOLLOWS:

BAR SIZE	CLASS	NORMAL WEIGHT CONCRETE, f´c (PSI)			
		3000	4000	5000	6000
#6 OR SMALLER	A	44 DIA	38 DIA	34 DIA	31 DIA
	B	57 DIA	49 DIA	44 DIA	40 DIA
#7 TO #11	A	55 DIA	47 DIA	42 DIA	39 DIA
	B	71 DIA	62 DIA	55 DIA	50 DIA

NOTES:

1. MULTIPLY VALUES BY 1.3 FOR TOP BARS AND HORIZONTAL WALL BARS (WHERE MORE THAN 12" OF FRESH CONCRETE IS CAST BELOW THE SPLICE.)
2. IN THE CASE OF SPLICES BETWEEN TWO DIFFERENT BAR SIZES, PROVIDE SPECIFIED LAP BASED ON THE SMALLER BAR SIZE, OR CLASS 'A' OF THE LARGER BAR, WHICHEVER IS GREATER.
3. ANY OTHER SPECIFIC LAPS SHOWN IN DETAILS OR SCHEDULES FOR MEMBER TYPES (E.G. COLUMNS) SHALL BE PERMITTED TO BE USED IN LIEU OF LAP LENGTHS SHOWN HERE.

4.18 REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER UNLESS NOTED OTHERWISE:

- CONCRETE CAST AGAINST EARTH (NOT FORMED) __________3"
- FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:
  #6 THROUGH #18 BARS ____________________________2"
  #5 BARS AND SMALLER __________________________1 ½"
- CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
  SLABS AND WALLS ________________________________1"
  BEAM STIRRUPS AND COLUMN TIES _______________1 ½"

4.19 DO NOT PLACE PIPES OR DUCTS EXCEEDING ONE-THIRD THE SLAB OR WALL THICKNESS WITHIN THE SLAB OR WALL UNLESS SPECIFICALLY SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.

4.20 DO NOT WELD OR TACK WELD REINFORCING STEEL UNLESS APPROVED OR DIRECTED BY THE ARCHITECT.

4.21 FLOOR FINISH TOLERANCES FOR INTERIOR SLABS SHALL BE MEASURED IN ACCORDANCE WITH ASTM E1155. MINIMUM FLATNESS VALUES SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 033000. EXTERIOR SLABS SHALL DRAIN FREELY WITH A MAXIMUM VARIATION FROM THE INDICATED PLANE OF 1/4" IN 10'-0".

4.22 RESHORES SHALL BE PLACED AS SOON AS PRACTICABLE AFTER STRIPPING OPERATIONS ARE COMPLETE. NEWLY PLACED CONCRETE FLOORS SHALL NOT BE SUBJECTED TO ANY CONSTRUCTION LOADS UNLESS THEY ARE SHORED OR PROPERLY RESHORED.

4.23 CONCRETE SLABS ON STEEL DECK SHALL BE PLACED LEVEL, WITH A THICKNESS TOLERANCE OF +1/2", -1/4", AND WITHIN +/- ¾" OF THE ELEVATION SHOWN ON THE DRAWINGS. MINIMUM FLOOR FLATNESS VALUES SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 033000.

4.24 UNLESS NOTED OTHERWISE IN THE STRUCTURAL DRAWINGS, STRUCTURED CONCRETE SLABS AND BEAMS SHALL BE CONSTANT THICKNESS WITH TOP OF SLAB OR BEAM PARALLEL TO BOTTOM OF SLAB OR BEAM.

5.00 CONCRETE MASONRY

5.01 CONCRETE MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO THE FOLLOWING:

- TMS 402, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"
- TMS 602, "SPECIFICATION FOR MASONRY STRUCTURES"

5.02 UNLESS NOTED OTHERWISE, PROVIDE HOLLOW, LOAD-BEARING CONCRETE MASONRY UNITS (CMU) CONFORMING TO ASTM C90, WITH A DENSITY OF LESS THAN 105 PCF.

5.03 PROVIDE CONCRETE MASONRY WITH MINIMUM COMPRESSIVE STRENGTH, f'm = 2,000 PSI, CORRESPONDING TO UNIT STRENGTH OF 2,000 PSI ON NET CROSS-SECTIONAL AREA OF CMU DETERMINED IN ACCORDANCE WITH ASTM C140.

5.04 PROVIDE TYPE "S" MORTAR IN ACCORDANCE WITH THE PROPORTION SPECIFICATION OF ASTM C270, UNLESS NOTED OTHERWISE. MORTAR BED JOINTS SHALL NOT EXCEED 5/8 INCHES IN THICKNESS. VOLUMES SHALL BE MEASURED BY MEANS OF THE USE OF A BOX OR OTHER CONTAINER OF PREDETERMINED CAPACITY.

5.05 PROVIDE GROUT FOR REINFORCED MASONRY IN ACCORDANCE WITH ASTM C476 WITH MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI UNLESS NOTED OTHERWISE. GROUT ONLY REINFORCED CELLS AND WHERE OTHERWISE NOTED.

5.06 LAP REINFORCING BARS AS FOLLOWS, UNLESS NOTED OTHERWISE:

BAR SIZE	CENTERED	OTHER
#4	24"	26"
#5	30"	40"

5.07 PROVIDE TRUSS OR LADDER TYPE HORIZONTAL JOINT REINFORCING COMPLYING WITH ASTM A951, WITH MINIMUM TWO 9 GAUGE LONGITUDINAL LINES, ZINC COATED, PLACED 16 INCHES ON CENTER UNLESS NOTED OTHERWISE. PROVIDE PREFABRICATED "L'S" AT WALL CORNERS AND "T'S" AT WALL INTERSECTIONS.

5.08 PROVIDE MINIMUM 1#5 VERTICAL, GROUTED FULL HEIGHT, IN THE FIRST FULL CELL AT EACH SIDE OF OPENINGS, AT WALL ENDS, AT EACH SIDE OF CONTROL JOINTS AND AT CORNERS.

5.09 LAY MASONRY UNITS IN RUNNING BOND UNLESS NOTED OTHERWISE.

5.10 MASONRY WALLS SHALL BE ANCHORED TO STRUCTURE AT TOP OF WALL AND AT EACH FLOOR AND ROOF LEVEL. SEE TYPICAL DETAILS. PROVIDE BOND BEAMS REINFORCED WITH 2#5 AT EACH FLOOR AND ROOF ANCHORAGE LEVEL AND AT TOP OF WALL.

5.11 SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL AND ACCESSORIES. SHOW WALL STEEL IN ELEVATION. INDICATE CONTROL JOINT LOCATIONS. NO FABRICATION SHALL BEGIN UNTIL SHOP DRAWINGS ARE COMPLETED AND APPROVED.

5.12 UNLESS NOTED OTHERWISE, PROVIDE VERTICAL CONTROL JOINTS ACCORDING TO THE FOLLOWING CRITERIA:

- AT 25'-0" ON CENTER MAXIMUM
- AT 12'-0" MAXIMUM FROM BUILDING CORNERS
- NO CLOSER THAN 1'-4" TO OPENING EDGES
- NO CLOSER THAN 1'-4" TO MAJOR BEAM OR JOIST BEARINGS
- DISCONTINUE HORIZONTAL JOINT REINFORCING AT CONTROL JOINTS IN THE FIELD OF THE WALL, BUT NOT AT CORNERS OR INTERSECTIONS. BOND BEAMS, CMU LINTELS, MASONRY BENEATH STEEL BEAM AND JOIST BEARINGS, AND OTHER STRUCTURAL ELEMENTS SHALL EXTEND UNINTERRUPTED ACROSS CONTROL JOINTS. PROVIDE RAKED JOINTS IN THESE ELEMENTS TO MATCH THE CONTROL JOINT

5.13 UNLESS NOTED OTHERWISE, REINFORCE ALL WALLS WITH #4@48" VERTICAL.

5.14 SAMPLE AND TEST GROUT IN ACCORDANCE WITH ASTM C1019. CAST AND LABORATORY CURE ONE SET OF FIVE CUBES FOR EACH 5000 SQUARE FEET OF MASONRY WALL SURFACE. TEST ONE CUBE AT SEVEN DAYS FOR INFORMATION, THREE CUBES AT 28 DAYS FOR A STRENGTH TEST AND HOLD ONE CUBE IN RESERVE

6.00 STRUCTURAL STEEL

6.01 ALL STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO THE AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".

6.02 SHOP DRAWINGS PREPARED IN ACCORDANCE WITH AISC'S DETAILING MANUAL "DETAILING FOR STEEL CONSTRUCTION, 3RD EDITION" SHALL BE SUBMITTED FOR APPROVAL. NO FABRICATION SHALL BEGIN UNTIL SHOP DRAWINGS ARE COMPLETED AND APPROVED.

6.03 UNLESS NOTED OTHERWISE, STRUCTURAL STEEL WIDE FLANGES AND TEES SHALL CONFORM TO ASTM A992, GRADE 50; ROUND, SQUARE AND RECTANGULAR HSS SECTIONS SHALL CONFORM TO ASTM A500, GRADE C; ROUND PIPES SHALL CONFORM TO ASTM A53, GRADE B; AND ALL OTHER SHAPES AND PLATES SHALL CONFORM TO ASTM A36 OR A572, GRADE 50.

6.04 STEEL FRAMING CONNECTIONS SHALL BE BOLTED OR WELDED:

- BOLTED JOINTS SHALL CONFORM TO RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". BOLTS SHALL CONFORM TO ASTM A325, AND SHALL BE MINIMUM 3/4" DIAMETER, UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE CONSIDERED BEARING TYPE WITH BOLTS PRE-TENSIONED, UNLESS OTHERWISE NOTED. PROVIDE DIRECT TENSION INDICATORS (LOAD INDICATING WASHERS) IN ACCORDANCE WITH ASTM F959 OR TENSION CONTROL BOLTS (TWIST OFF BOLTS) IN ACCORDANCE WITH ASTM F1852 FOR ALL HIGH STRENGTH BOLTS
- WELDS SHALL CONFORM TO THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY, AWS D1.1. USE E70XX ELECTRODES. WELDING PROCESSES AND OPERATORS SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATIONS PROCEDURES". WELDERS SHALL CARRY PROOF OF QUALIFICATIONS ON THEIR PERSONS

6.05 ANCHOR RODS SHALL CONFORM TO ASTM F1554, GR 55, S1 (WELDABLE) UNLESS OTHERWISE NOTED. FOR ANCHOR RODS TO BE GALVANIZED, THE END OF THE ANCHOR ROD INTENDED TO PROJECT FROM THE CONCRETE SHALL BE STEEL DIE STAMPED WITH THE GRADE IDENTIFICATION AS REQUIRED BY SUPPLEMENT S3.DO NOT USE GAS CUTTING TORCHES FOR CORRECTING FABRICATION ERRORS IN THE STRUCTURAL FRAMING.

6.06 IN ACCORDANCE WITH AISC 303 "THE CODE OF STANDARD PRACTICE," ALL STRUCTURAL STEEL CONNECTIONS ARE A DEFERRED SUBMITTAL PER OPTION 3B, EXCEPT AS FOLLOWS:

- CONNECTIONS NOTED AS OPTION 1.
- WHERE COLUMN SPLICE FORCES ARE NOT SHOWN, COLUMN SPLICES ARE TO BE OPTION 2 CONNECTIONS, SELECTED AND COMPLETED FROM CASES I-X OF TABLE 14-3 OF THE AISC "STEEL CONSTRUCTION MANUAL".

LOAD DATA IS GIVEN AT THE FACTORED LOAD LEVEL, AND LRFD SHALL BE USED FOR CONNECTION DESIGN. SEE DEFERRED SUBMITTAL SECTION OF THE GENERAL NOTES. BEAM END CONNECTIONS SHALL BE DESIGNED AS FOLLOWS:

- MINIMUM 5/16" THICK DOUBLE ANGLE, OR 3/8" THICK SINGLE-PLATE SHEAR CONNECTIONS, FULL DEPTH OF THE BEAM, WELDED OR BOLTED WITH VERTICAL BOLT SPACING = 3", AND
- WHERE BEAM REACTIONS ARE NOT SHOWN, CONNECTIONS SHALL BE PROPORTIONED TO SUPPORT 60% OF THE TOTAL UNIFORM LOAD CAPACITY (ULC) SHOWN IN THE UNIFORM LOAD TABLES OF THE AISC MANUAL, FOR THE SPECIFIED BEAM SIZE, SPAN, AND GRADE OF STEEL. FOR COMPOSITE BEAMS, PROPORTION CONNECTIONS FOR 90% OF THE ULC.

6.07 PROVIDE A SHOP COAT OF STANDARD PRIMER PAINT. PRIMER SHALL BE COMPATIBLE WITH FINISH COAT. TOUCH UP AREAS DAMAGED IN HANDLING AND ERECTION WITH THE SAME PAINT USED FOR SHOP COAT. STEEL SURFACES TO BE WELDED OR ENCASED IN CONCRETE OR FIREPROOFING, CONNECTIONS DESIGNATED AS SLIP CRITICAL TYPE, OR SURFACES RECEIVING WELDED SHEAR CONNECTORS IN THE FIELD SHALL NOT BE PAINTED.

6.08 PLACE NON-SHRINK, HIGH STRENGTH GROUT (MINIMUM 6,000 PSI) UNDER BASE PLATES AFTER SETTING AND LEVELING, AND PRIOR TO PLACING ELEVATED SLAB CONCRETE.

6.09 STEEL CONSTRUCTION SHALL BE INSPECTED BY A QUALIFIED SPECIAL INSPECTOR. SEE SCHEDULE OF SPECIAL INSPECTIONS FOR ADDITIONAL INFORMATION.

- BOLTED CONNECTIONS SHALL BE INSPECTED IN ACCORDANCE WITH RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS"
- ALL FILLET WELDS SHALL BE VISUALLY INSPECTED
- ALL COMPLETE PENETRATION WELDS IN MATERIALS 5/16" INCH THICK OR GREATER SHALL BE ULTRASONIC TESTED IN ACCORDANCE WITH AWS D1.1 AND ASTM E164
- WELDING OF HEADED STUD CONCRETE ANCHORS AND DBA'S SHALL BE INSPECTED IN ACCORDANCE WITH AWS D1.1. TEST 15% OF ALL STUDS. RETEST ALL STUDS AND DBA'S ON ANY MEMBER WHOSE STUDS FAILED INITIAL TESTING.
- WRITTEN REPORTS SHALL BE SUBMITTED DESCRIBING ALL INSPECTIONS AND INDICATING ANY NON-CONFORMING WORK
- RE-INSPECT NON-CONFORMING WORK AFTER IT IS CORRECTED

6.10 PROVIDE TEMPORARY BRACING OF STRUCTURAL FRAMING UNTIL ALL PERMANENT BRACING, MOMENT CONNECTIONS AND FLOOR AND ROOF DECKS (DIAPHRAGMS) ARE COMPLETELY INSTALLED. THE STRUCTURAL ELEMENTS ARE UNSTABLE UNTIL THE STRUCTURE IS COMPLETED IN ACCORDANCE WITH THE PLANS.

6.11 SHEAR CONNECTORS: PROVIDE AWS D1.1, TYPE B, 3/4" DIAMETER, SOLID FLUXED HEADED SHEAR CONNECTOR STUDS AUTOMATICALLY END WELDED THROUGH THE STEEL DECK AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.

6.12 DEFORMED BAR ANCHORS (DBA'S): FLUX FILLED BARS AUTOMATICALLY END WELDED TO STRUCTURAL STEEL IN ACCORDANCE WITH THE RECOMMENDATION OF THE MANUFACTURER. PROVIDE MATERIAL WITH MINIMUM YIELD STRENGTH OF 60 KSI.

6.13 PROVIDE CAP PLATES AT ALL COLUMNS. AT BEARING CONDITIONS, PROVIDE 3/4" MINIMUM THICKNESS. AT NON-BEARING CONDITIONS, PROVIDE 1/4" THICKNESS. WELD CAP PLATES ALL AROUND TO COLUMNS.

6.14 UNLESS NOTED OTHERWISE, ALL EXPOSED STRUCTURAL AND MISCELLANEOUS STEEL, PLATES, BOLTS, AND ANCHORS SHALL BE GALVANIZED OR PAINTED WITH AN APPROVED HIGH-PERFORMANCE CORROSION RESISTANT COATING SYSTEM. CLEAN AREAS WHERE GALVANIZING IS DAMAGED OR MISSING AND REPAIR GALVANIZING TO COMPLY WITH ASTM A780.

6.15 THE STRUCTURAL DESIGN OF STEEL STAIRS, LANDINGS AND GUARDRAILS (INCLUDING EMBEDS, POSTS AND HANGERS) SHALL BE PERFORMED BY A STRUCTURAL ENGINEER REGISTERED IN THE PROJECT STATE. CALCULATIONS AND SHOP DRAWINGS WITH THE ENGINEER'S SEAL SHALL BE SUBMITTED FOR APPROVAL. NO FABRICATION SHALL BEGIN UNTIL THE SUBMITTAL IS APPROVED. DESIGN LOADS SHALL BE AS SPECIFIED BY THE CONTRACT DOCUMENTS AND/OR THE APPLICABLE CODES WHICHEVER IS MORE STRINGENT. THE CONTRACTOR SHALL MAKE APPROVED SHOP DRAWINGS AVAILABLE TO THE INSPECTOR AT THE JOB SITE PRIOR TO INSPECTION.

7.00 STEEL DECKING:

7.01 UNLESS NOTED OTHERWISE, STEEL DECK SHALL BE GALVANIZED (MINIMUM G60), CONFORMING TO STEEL DECK INSTITUTE (SDI) STANDARDS. ALL STEEL DECKING SHALL BE GRADE 50 MINIMUM.

7.02 SEE DRAWINGS FOR STEEL DECK TYPE AND GAUGE.

7.03 STEEL FLOOR DECK SHALL BE FASTENED TO STEEL FRAMING WITH 5/8" DIAMETER PUDDLE WELDS AT THE FOLLOWING SPACINGS:

- AT FRAMING PERPENDICULAR TO DECK FLUTES: 12" ON CENTER MAXIMUM AND AT EACH EDGE FLUTE OF EACH DECK UNIT.
- AT FRAMING PARALLEL TO DECK FLUTES: 24" ON CENTER MAXIMUM.
- SIDE LAPS SHALL BE FASTENED WITH #10 SELF-TAPPING SCREWS AT A MAXIMUM SPACING OF 2 FEET CENTER TO CENTER BETWEEN SUPPORTS.

7.04 STEEL ROOF DECK SHALL BE FASTENED TO STEEL FRAMING WITH 5/8" DIAMETER PUDDLE WELDS AT THE FOLLOWING SPACINGS UNLESS NOTED OTHERWISE:

- AT FRAMING PERPENDICULAR TO DECK FLUTES (AT 1-1/2" DECK): 12" ON CENTER MAXIMUM AND AT EACH EDGE FLUTE OF EACH DECK UNIT.
- AT FRAMING PERPENDICULAR TO DECK FLUTES (AT 3" DECK): 8" ON CENTER MAXIMUM AND AT EACH EDGE FLUTE OF EACH DECK UNIT.
- AT FRAMING PARALLEL TO DECK FLUTES: 12" ON CENTER MAXIMUM.
- SIDE LAPS SHALL BE FASTENED WITH #10 SELF-TAPPING SCREWS AT A MAXIMUM SPACING OF 12" CENTER TO CENTER BETWEEN SUPPORTS.

7.05 DECKING SHALL BE CONTINUOUS OVER 3 SPANS MINIMUM WHERE SUPPORTING STRUCTURE PERMITS.

7.06 DECKING SHALL BE ERECTED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

7.07 MANUFACTURER SHALL BE A MEMBER OF THE STEEL DECK INSTITUTE. SUBMIT PRODUCT DATA, INCLUDING SPAN TABLES, FOR REVIEW.

7.08 TOUCH UP AREAS DAMAGED IN HANDLING AND ERECTION WITH GALVANIZING REPAIR PAINT.

8.00 POST-INSTALLED ANCHORS AND ADHESIVE ANCHORED REBAR

8.01 UNLESS NOTED OTHERWISE, POST-INSTALLED CONCRETE ANCHORS SHALL COMPLY WITH ICC-ES ACCEPTANCE CRITERIA FOR ANCHORS IN CRACKED CONCRETE AND SEISMIC APPLICATIONS.

8.02 POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS UNLESS APPROVED OTHERWISE BY THE ARCHITECT.

8.03 UNLESS NOTED OTHERWISE, ALL ANCHORS SHALL HAVE A COATING THAT PROVIDES CORROSION RESISTANCE EQUIVALENT TO MECHANICALLY GALVANIZED PER ASTM GALVANIZED B695 CLASS 55.

8.04 PLACE POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR AND EMBEDMENTS.

8.05 DRILL AND PREPARE HOLES AND INSTALL ANCHORS IN ACCORDANCE WITH EVALUATION REPORTS AND MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.

8.06 POST-INSTALLED ANCHORS SHALL BE INSPECTED BY A QUALIFIED SPECIAL INSPECTOR IN ACCORDANCE WITH THE PROJECT STATEMENT OF SPECIAL INSPECTIONS AND THE EVALUATION REPORT. UNLESS OTHERWISE NOTED IN THE EVALUATION REPORT, THE SPECIAL INSPECTOR SHALL INSPECT THE INITIAL INSTALLATION OF EACH TYPE OF ANCHOR AND PERIODICALLY INSPECT INSTALLATIONS THEREAFTER.

8.07 MECHANICAL EXPANSION ANCHORS FOR USE IN CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE MECHANICAL ANCHORS FOR USE IN CONCRETE INCLUDE THE FOLLOWING:

- HILTI KWIK BOLT TZ (ICC-ES ESR 1917)
- SIMPSON STRONG-TIE STRONG-BOLT 2 (ICC-ES ESR 3037)
- DEWALT POWER STUD+ SD2 (ICC-ES ESR 2502)

8.08 MECHANICAL SCREW ANCHORS FOR USE IN CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. ACCEPTABLE MECHANICAL SCREW ANCHORS FOR USE IN CONCRETE INCLUDE THE FOLLOWING:

- HILTI KWIK HUS-EZ (ICC-ES ESR 3027)
- DEWALT SCREW-BOLT+ (ICC-ES ESR-3889)
- SIMPSON STRONG-TIE TITEN HD (ICC-ES ESR 2713)

8.09 ADHESIVE ANCHORS, INCLUDING REBAR, FOR USE IN CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308. ADHESIVE ANCHORS SHALL BE INSTALLED INTO DRY HOLES DRILLED USING A CARBIDE DRILL BIT THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION TO SUPPORT SUSTAINED TENSION LOADS SHALL BE DONE BY A CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI/CRSI. PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION. ACCEPTABLE ADHESIVE ANCHORS FOR USE IN CONCRETE INCLUDE THE FOLLOWING:

- HILTI HIT-HY 200 (ICC-ES ESR 3187)
- DEWALT AC200+ (ICC-ES ESR 4027)
- SIMPSON STRONG-TIE AT-XP (IAPMO UES ER 263)

8.10 MECHANICAL EXPANSION ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC01. ACCEPTABLE MECHANICAL ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY INCLUDE THE FOLLOWING:

- HILTI KWIK BOLT 3 (ICC-ES ESR 1385)
- DEWALT POWER STUD+ SD1 (ICC-ES ESR 2966)
- SIMPSON STRONG-TIE WEDGE-ALL (ICC-ES ESR 1396)

8.11 ADHESIVE ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC58. ACCEPTABLE ADHESIVE ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY INCLUDE THE FOLLOWING:

- HILTI HIT-HY 270 (ICC-ES ESR 4143)
- DEWALT AC100+ GOLD ADHESIVE (ICC-ES ESR 3200)
- SIMPSON STRONG-TIE AT-XP (IAPMO UES ER 281)

9.00 DEFERRED SUBMITTALS

9.01 DEFERRED SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING BUILDING COMPONENTS:

- GLAZED SYSTEMS (INCLUDING BUT NOT LIMITED TO WINDOW UNITS, CURTAIN WALLS AND STOREFRONTS THAT EXCEED TEN (10) FEET IN HEIGHT)
- ALUMINUM STRUCTURES
- WINDOW WASHING ANCHORS AND EQUIPMENT
- STRUCTURAL STEEL CONNECTIONS
- STAIRS AND ASSOCIATED LANDINGS AND GUARDRAILS
- COLD FORMED METAL FRAMING
- TIE-BACK, SOIL NAIL, MSE, SOLDIER PILE OR OTHER SPECIALTY RETAINING/SHORING WALLS
- CANOPIES AS NOTED ON PLAN

9.02 SHOP DRAWINGS AND CALCULATIONS FOR THESE COMPONENTS SHALL BE SUBMITTED TO THE ARCHITECT UNLESS NOTED OTHERWISE. DEFERRED SUBMITTALS SHALL BE SEALED, SIGNED AND DATED BY THE DELEGATED COMPONENT STRUCTURAL ENGINEER REGISTERED IN THE PROJECT STATED. REFER TO OTHER SECTIONS OF THESE GENERAL NOTES FOR SPECIFIC REQUIREMENTS OF DEFERRED SUBMITTALS. REVIEW OF DEFERRED SUBMITTALS SHALL BE FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS AND SHALL NOT RELIEVE THE CONTRACTOR AND ITS ENGINEER OF THE FULL RESPONSIBILITY FOR DESIGN. DO NOT BEGIN FABRICATION UNTIL DEFERRED SUBMITTALS ARE APPROVED.

9.03 DEFERRED SUBMITTAL BUILDING COMPONENTS SHALL ACCOMMODATE ALLOWABLE BUILDING DEFLECTIONS AND DRIFT AS SET FORTH BY THE BUILDING CODE AND CONSTRUCTION TOLERANCES AS DEFINED BY THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND ACI "SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS". SEE SPECIFICATIONS FOR DESIGN CRITERIA.

10.00 TEMPORARY EXCAVATION BRACING

10.01 THE SPECIALTY FOUNDATION CONTRACTOR SHALL DESIGN AND INSTALL EXCAVATION BRACING REQUIRED TO RETAIN TEMPORARY EXCAVATIONS AND RETAIN AND SUPPORT EXISTING FOUNDATIONS FOR THIS PROJECT.

10.02 THE SPECIALITY FOUNDATION CONTRACTOR IS SOLELY RESPONSIBLE FOR DESIGN AND CONSTRUCTION OF EXCAVATION BRACING. REVIEW OF SUBMITTALS INCLUDING CALCULATIONS, DESIGNS AND SHOP DRAWINGS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY.

10.03 DESIGN AND CONSTRUCTION OF EXCAVATION BRACING SHALL BE BASED ON THE FOLLOWING CRITERIA:

- GEOTECHNICAL INFORMATION PER THE REPORT REFERENCED IN NOTE 3.01
- EXISTING BUILDING DRAWINGS
- A TOTAL MAXIMUM LATERAL DEFLECTION LIMITATION OF 3/4"
- FOUNDATION AND FRAMING PLANS
- COORDINATION WITH ADJACENT STRUCTURE AND SITE UTILITIES
- TEMPORARY CONSTRUCTION LOADS IN ACCORDANCE WITH ASCE 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION"
- SOIL ANCHOR INSTALLATION TECHNIQUES MUST BE NON-DRIVEN AND NON-VIBRATORY

10.04 TEMPORARY EXCAVATION BRACING IS A DEFERRED SUBMITTAL. SEE DEFERRED SUBMITTAL SECTION OF GENERAL NOTES. DEFERRED SUBMITTAL TO INCLUDE THE FOLLOWING:

- CALCULATIONS
- DETAILS, DIMENSIONS AND SCHEDULES OF ALL STRUCTURAL COMPONENTS
- INSTALLATION AND TESTING PROCEDURES
- PRODUCT DATA AND SUPPORTING REPORTS FOR COMPONENTS AND CONSTRUCTION METHODS NOT SPECIFICALLY COVERED BY THE BUILDING CODE
- DETAILED PLANS OF PROOF AND PERFORMANCE TESTING OF SOIL ANCHORS SHOWING LOADING AND MEASURING DEVICES TO BE USED AND PROCEDURES TO BE FOLLOWED
- MILL TEST REPORTS FOR PRESTRESSING MATERIAL
- CONCRETE/GROUT MIX DESIGNS

10.05 SUBMIT EVIDENCE OF SUCCESSFUL COMPLETION OF AT LEAST FIVE PROJECTS SIMILAR IN CONCEPT AND SCOPE TO THE PROPOSED FOUNDATION SYSTEMS.

10.06 SPECIALTY FOUNDATION ENGINEER SHALL PERFORM PERIODIC INSPECTIONS OF THE WORK AND SUBMIT CONFIRMING REPORTS.

DATE	RELEASE
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

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U+C Project No. | 20.066
Georgia COA No. | PEF002101
Expiration | June 30, 2020

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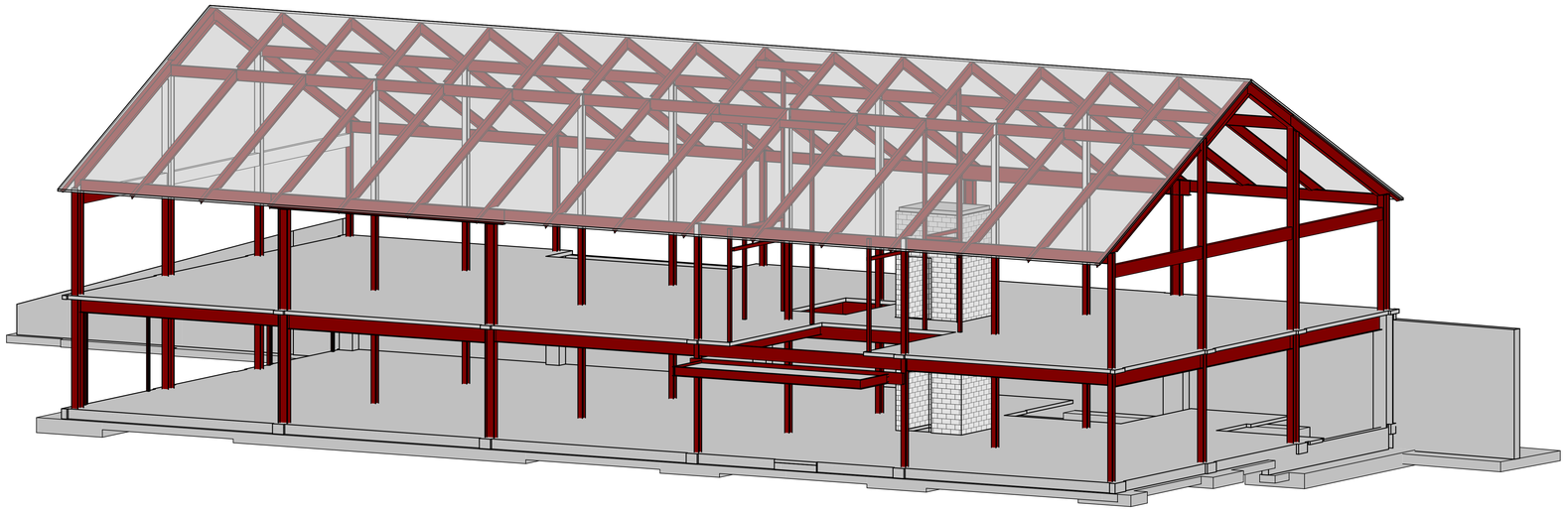
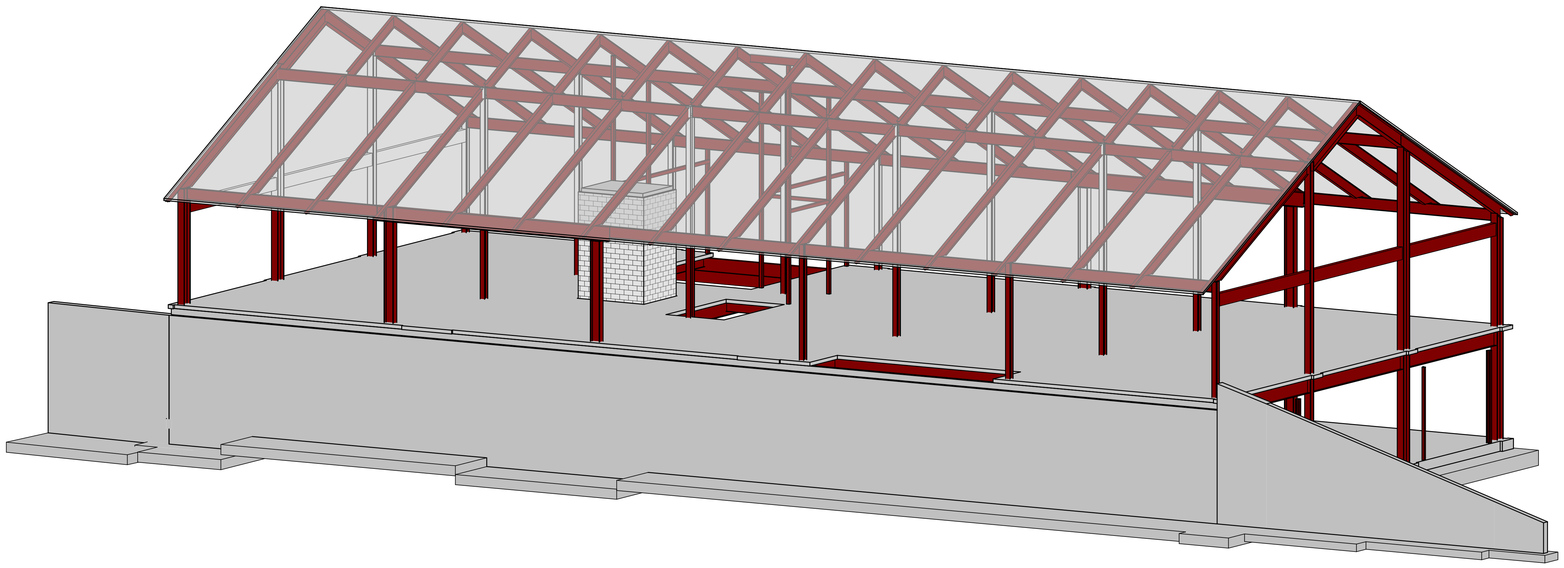
No. 026700
JAMES ASHTON JONES

GENERAL NOTES

S-0.01



1
S-0.02
AXONOMETRIC VIEW



2
S-0.02
AXONOMETRIC VIEW
SCALE:

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05.06.20	FOR PRICING

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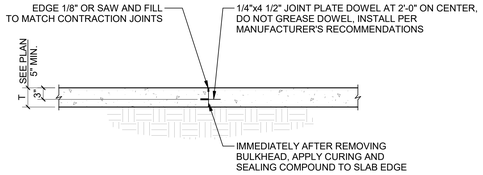
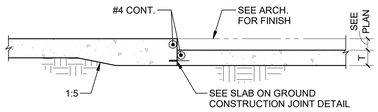
AXONOMETRIC VIEWS

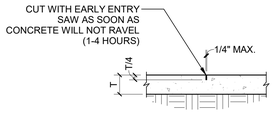
S-0.02



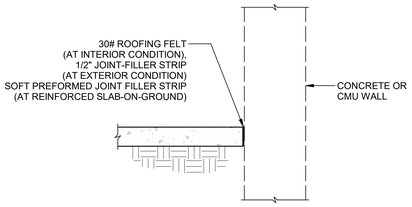
1 S-0.03 TYPICAL SLAB ON GROUND CONSTRUCTION JOINT



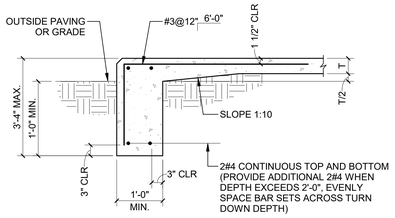
2 S-0.03 TYPICAL SLAB DEPRESSION



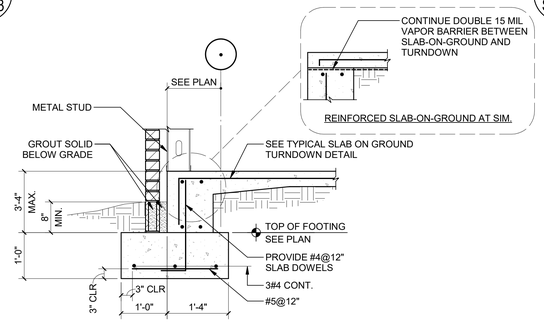
3 S-0.03 TYPICAL SLAB ON GROUND CONTRACTION JOINT



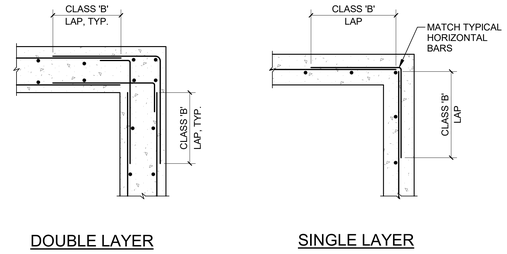
4 S-0.03 TYPICAL SLAB ON GROUND BUTT JOINT



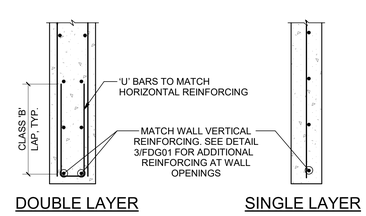
5 S-0.03 TYPICAL SLAB ON GROUND TURNDOWN



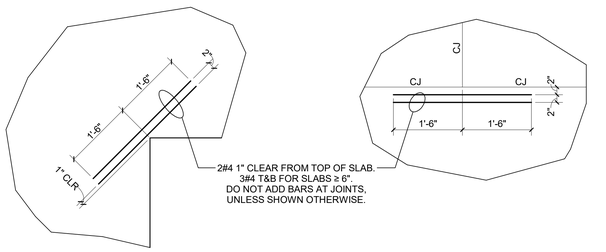
6 S-0.03 TYPICAL EXTERIOR STUD WALL WITH BRICK VENEER



7 S-0.03 TYPICAL DETAIL AT WALL CORNER

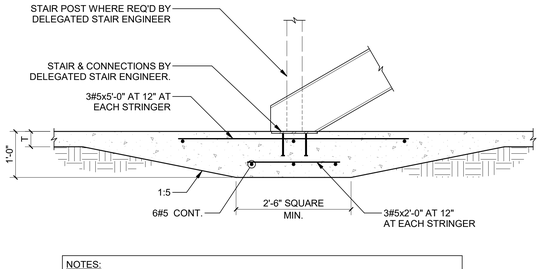


8 S-0.03 TYPICAL DETAIL AT WALL END



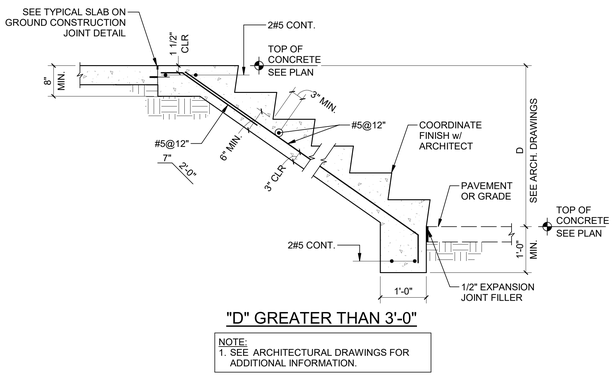
AT RE-ENTRANT CORNERS AT DISCONTINUOUS JOINTS

9 S-0.03 TYPICAL SLAB-ON-GROUND ADDITIONAL REINFORCING



NOTES:
1. STRINGER CONDITION SHOWN. PROVIDE SIM. REINF. UNDER STEEL STAIR POSTS.
2. COORD. POST AND STRINGER LOCATIONS WITH ARCH. & STEEL STAIR DESIGNER.

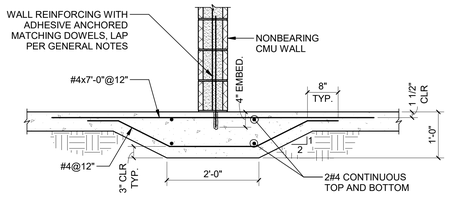
10 S-0.03 TYPICAL DETAIL AT STAIR STRINGER & POST



"D" GREATER THAN 3'-0"

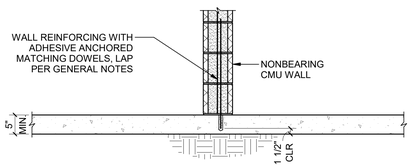
NOTE:
1. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

11 S-0.03 TYPICAL SECTION AT STAIRS-ON-GROUND



CMU ON THICKENED SLAB ON GROUND

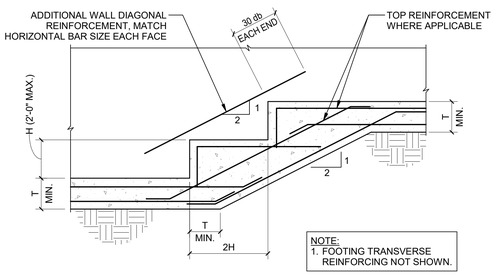
APPLIES WHERE 6" CMU WALL HEIGHT > 16'-0" OR 8" CMU WALL HEIGHT > 14'-0" OR AT ANY WALL THAT IS FULLY GROUTED



CMU ON SLAB ON GROUND

APPLIES WHERE 6" CMU WALL HEIGHT ≤ 16'-0" OR 8" CMU WALL HEIGHT ≤ 14'-0"

12 S-0.03 TYPICAL SECTION AT INTERIOR NONBEARING CMU WALL



NOTE:
1. FOOTING TRANSVERSE REINFORCING NOT SHOWN.

13 S-0.03 TYPICAL STEPPED FOOTING

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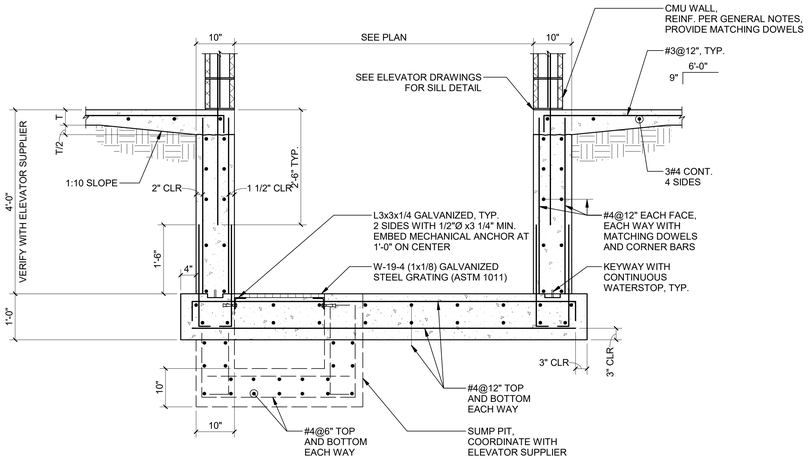
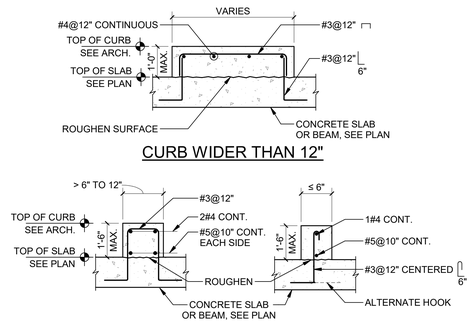
TYPICAL CONCRETE SECTIONS & DETAILS

S-0.03

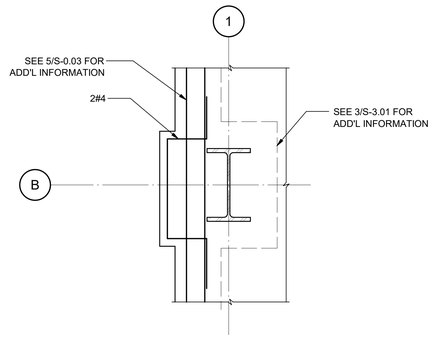


1 S-0.04 TYPICAL ELEVATOR PIT SECTION

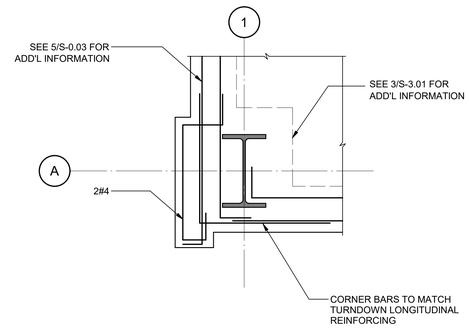


NOTE:
1. CONTRACTOR SHALL COORDINATE ALL REQUIRED CURB LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.

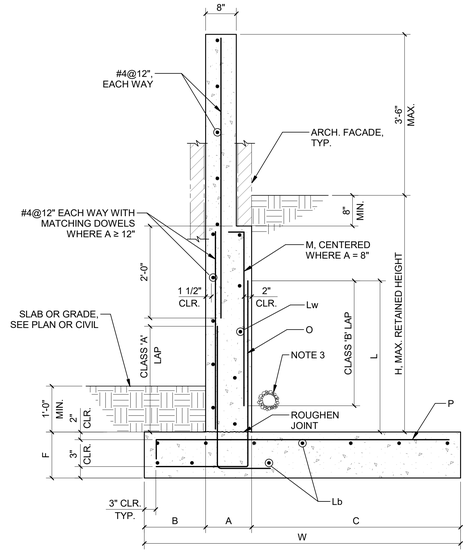
2 S-0.04 TYPICAL SECTION THROUGH CONCRETE CURB



3 S-0.04 TYPICAL OVERPOUR AT COLUMN
SCALE: 3/4" = 1'-0"



4 S-0.04 TYPICAL OVERPOUR AT CORNER
SCALE: 3/4" = 1'-0"



CANTILEVER RETAINING WALL SCHEDULE

CONCRETE DIMENSIONS						BASE REINF.			STEM REINF.		
H, MAX.	A	B	C	W	F	O	Lb	P	M	Lw	L
4'-0"	8"	1'-0"	1'-8"	3'-4"	12"	#5@12"	6#4	#5@12"	-	#4@12"	-
8'-0"	12"	1'-6"	3'-7"	5'-8"	12"	#5@12	8#4	#5@12"	#5@12"	#4@12"	2'-4"
12'-0"	12"	2'-5"	5'-6"	9'-0"	12"	#6@6"	12#4	#6@12"	#5@12"	#4@12"	4'-3"
16'-0"	16"	3'-3"	9'-8"	14'-3"	16"	#8@8"	14#6	#8@16"	#8@16"	#4@12"	4'-10"

NOTES:
1. WALL CONTRACTION JOINTS @ 20'-0" MAXIMUM.
2. KEYED EXPANSION JOINT @ 100'-0" MAXIMUM.
3. PROVIDE POSITIVE DRAINAGE BEHIND WALL.
4. LOCATE 3 Lb BARS IN BOTTOM, REMAINDER EQUALLY SPACED IN TOP.
5. LAP Lb AND Lw BARS CLASS "A".

5 S-0.04 TYPICAL SITE RETAINING WALL SECTION AND SCHEDULE

NOTES:
1. AT EXTERIOR COLUMNS, COAT BELOW GRADE PORTION OF COLUMN AND BASE PLATE WITH BITUMINOUS MASTIC AND PROVIDE 1/2" PREFORMED JOINT FILLER AROUND COLUMNS. AT INTERIOR COLUMNS, PROVIDE 30# ROOFING FELT.

6 S-0.04 TYPICAL CONCRETE PIER DETAIL

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05.06.20	FOR PRICING

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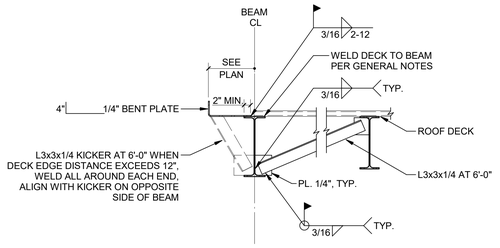
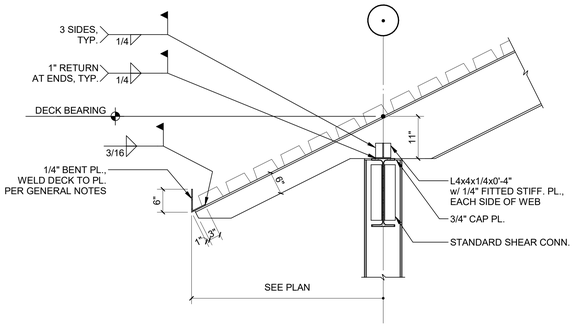
TYPICAL CONCRETE SECTIONS & DETAILS

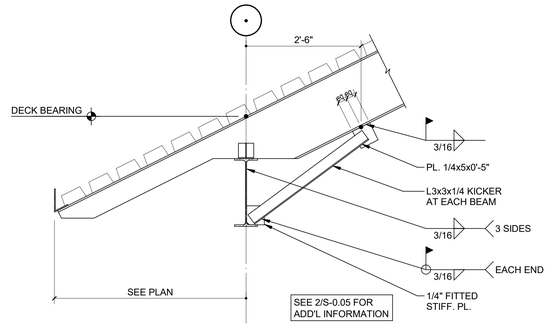
S-0.04



1 S-0.05 TYPICAL SECTION AT DECK PERP. TO EDGE BEAM



2 S-0.05 TYPICAL SECTION AT SLOPING ROOF EAVE



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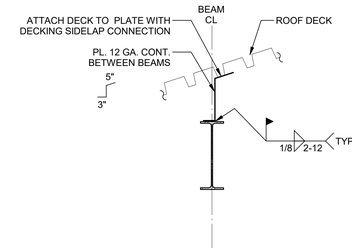
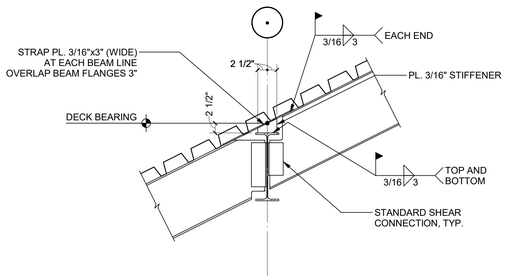
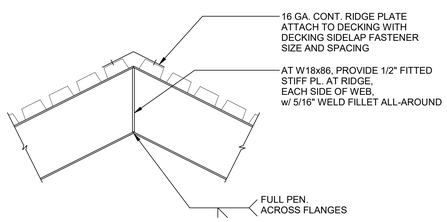


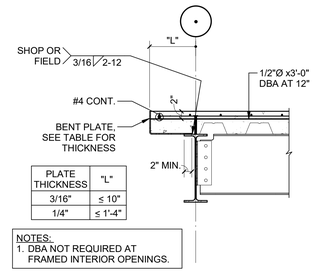
4 S-0.05 TYPICAL SECTION AT 'Z' PLATES AT SLOPING ROOF



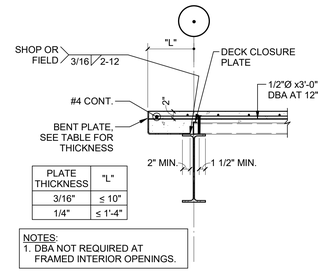
5 S-0.05 TYPICAL SECTION AT SLOPING ROOF



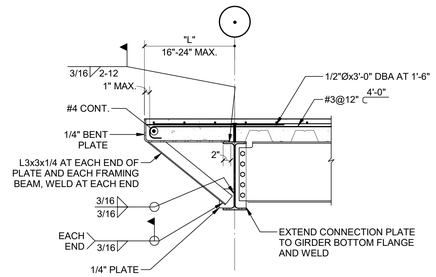
6 S-0.05 TYPICAL SECTION AT SLOPING ROOF RIDGE



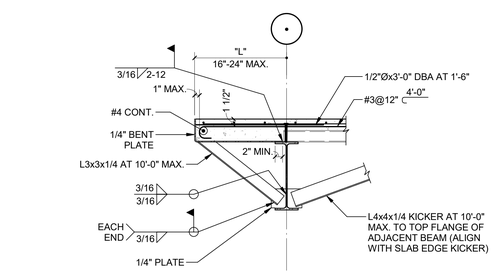
7 S-0.05 TYPICAL FLOOR EDGE BEAM PARALLEL TO DECK



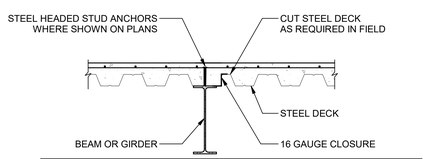
8 S-0.05 TYPICAL FLOOR EDGE BEAM PERPENDICULAR TO DECK



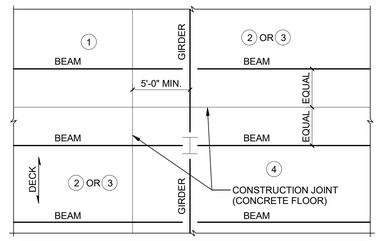
9 S-0.05 TYP. FLOOR EDGE AT LONG CANT. PARALLEL TO DECK



10 S-0.05 TYP. FLOOR EDGE AT LONG CANT. PERP. TO DECK



11 S-0.05 TYPICAL DECK PARALLEL TO STEEL BEAM



12 S-0.05 TYPICAL DETAIL AT COMPOSITE FLOOR CONSTRUCTION JOINT

DECK PERPENDICULAR TO BEAM

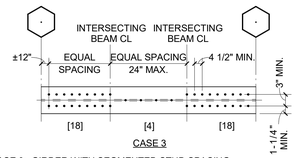
CASE 1: FEWER STUDS THAN FLUTES

PLACE ONE STUD IN EVERY OTHER FLUTE STARTING AT BEAM ENDS. IF STUDS REMAIN, PLACE IN FLUTES NOT ALREADY HAVING A STUD, STARTING AT BEAM ENDS AND CONTINUING TOWARD BEAM CENTER. MAXIMUM SPACING ALLOWED IS 24" o.c.

CASE 2: MORE STUDS THAN FLUTES

PLACE ONE STUD IN EACH FLUTE FOR ENTIRE LENGTH OF BEAM. IF STUDS REMAIN, PLACE A SECOND STUD IN FLUTES, STARTING AT BEAM ENDS AND CONTINUING TOWARD CENTER. SPACING BETWEEN PAIRS OF STUDS SHALL NOT BE LESS THAN 3".

DECK PARALLEL TO BEAM



CASE 3

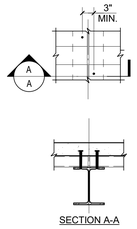
CASE 3: GIRDER WITH SEGMENTED STUD SPACING

PLACE SPECIFIED NUMBER OF STUDS IN EACH SEGMENT OF GIRDER AT EQUAL SPACES. IF SPACING IS LESS THAN 4 1/2", USE DOUBLE ROW AS REQUIRED.

CASE 4: ALL CASES OF DECK PARALLEL WITH UNIFORM STUD SPACING OR FLAT SLABS

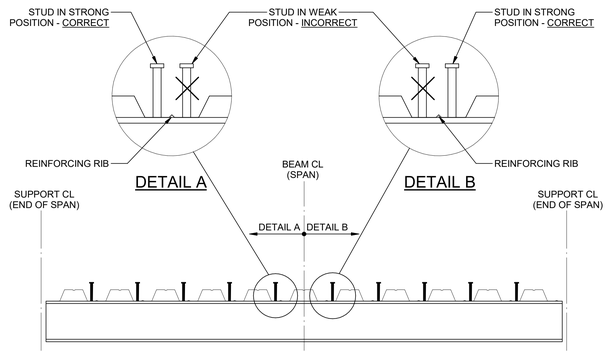
PLACE A SINGLE ROW OF STUDS ALONG GIRDER AT EQUAL SPACING. IF SPACING IS LESS THAN 4 1/2", USE DOUBLE ROW AS REQUIRED, STARTING AT BEAM ENDS.

AT BUTT JOINTS:
1. DECK JOINT SHALL BE LOCATED ON BEAM CENTERLINE.
2. STUDS SHALL BE PLACED ON ALTERNATE SIDES OF JOINT.



BUTT JOINTS

NOTES:
1. ALL STUDS LOCATED IN DECK FLUTES SHALL BE PLACED IN STRONG POSITION. A STUD PLACED ON THE SIDE OF THE REINFORCING RIB NEAREST THE END OF THE SPAN IS IN THE STRONG POSITION.
2. LAY OUT ALL STUDS FOR A BEAM PRIOR TO WELDING.



STUD PLACEMENT DETAIL

13 S-0.05 TYPICAL STUD PLACEMENT DETAIL

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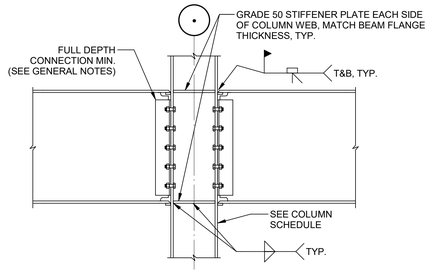
TYPICAL STEEL SECTIONS & DETAILS

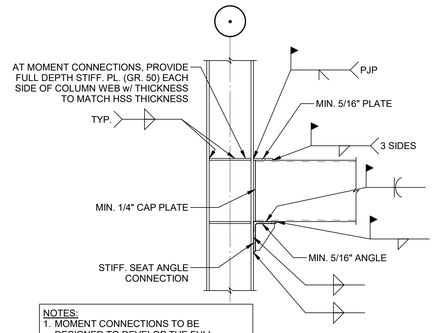
S-0.05



TYPICAL CONDITION

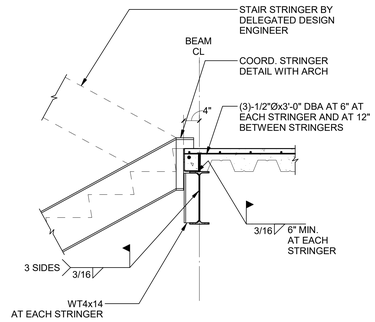
NOTES:
1. MOMENT CONNECTION TO BE DESIGNED TO DEVELOP THE FULL AXIAL CAPACITY OF THE FLANGES.

1 S-0.06 TYPICAL BEAM TO WIDE FLANGE COLUMN FLANGE MOMENT CONNECTION

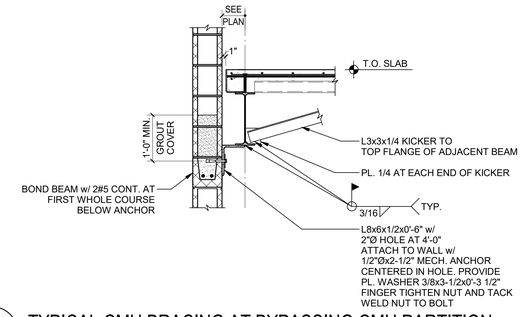


NOTES:
1. MOMENT CONNECTIONS TO BE DESIGNED TO DEVELOP THE FULL AXIAL CAPACITY OF THE BEAM FLANGES.

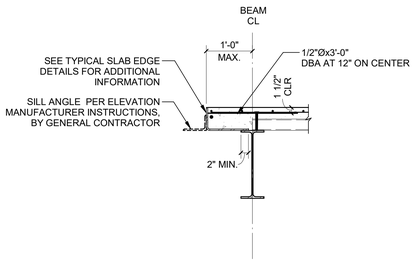
2 S-0.06 TYPICAL HSS BEAM TO COLUMN CONNECTION

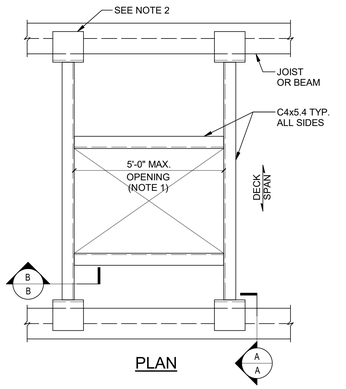


3 S-0.06 TYPICAL DETAIL AT STAIR



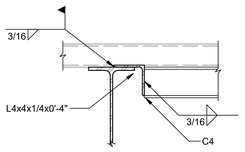
4 S-0.06 TYPICAL CMU BRACING AT BYPASSING CMU PARTITION



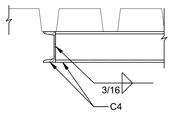


PLAN

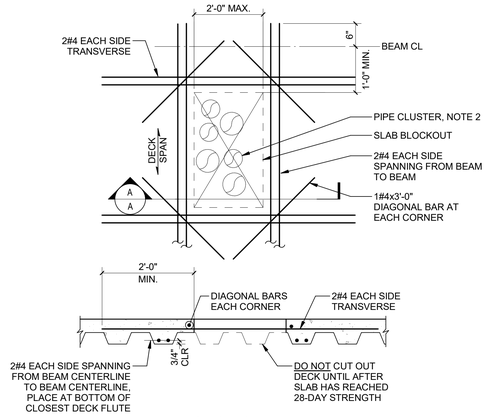
NOTES:
1. SEE STRUCTURAL, ARCHITECTURAL, OR MECHANICAL DRAWINGS FOR LOCATIONS.



TYPICAL SECTION A-A

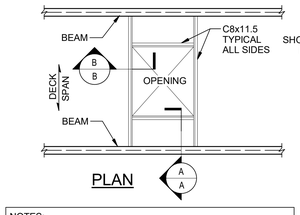


TYPICAL SECTION B-B



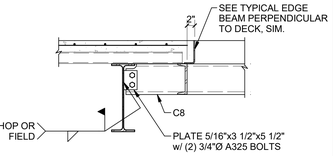
SECTION A-A

NOTES:
1. INDIVIDUAL CORES OR BLOCKOUTS OF 8" OR LESS DO NOT REQUIRE REINFORCING.
2. PIPE CLUSTER: TWO OR MORE PIPES WITH LESS THAN 1'-0" CLEAR BETWEEN PIPES.

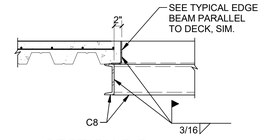


PLAN

NOTES:
1. MAXIMUM OPENING DIMENSION = 5'-0".
2. SEE STRUCTURAL, ARCHITECTURAL, OR MECHANICAL DRAWINGS FOR LOCATION.

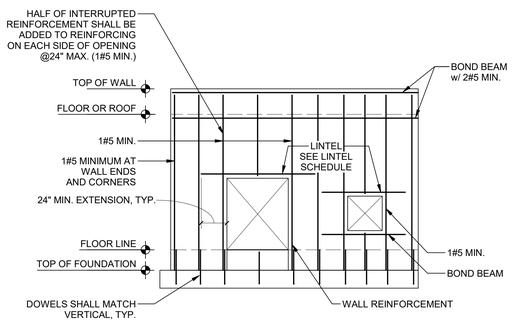


SECTION A-A



SECTION B-B

5 S-0.06 TYPICAL DETAIL AT ELEVATOR



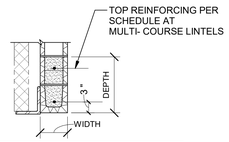
SEE PLAN AND GENERAL NOTES FOR TYPICAL VERTICAL AND HORIZONTAL REINFORCEMENT REQUIRED.

6 S-0.06 TYPICAL FRAMED ROOF OPENING

BRICK AND 4" CMU LINTEL SCHEDULE	
CLEAR SPAN	LINTEL
< 4'-0"	L6x4x3/8 (LLH)
4'-1" - 12'-0"	L6x6x3/8

NOTE: BEAR LINTEL 6" ON EITHER SIDE OF OPENING.

CMU LINTEL SCHEDULE			
CLEAR SPAN	WIDTH	DEPTH	REINF.
≤ 6'-8"	6"	8"	1#4
> 6'-8" - 12'-0"	6"	16"	1#5 T&B
≤ 6'-8"	8"	8"	1#5
> 6'-8" - 12'-0"	8"	16"	1#6 T&B
> 12'-0" - 14'-0"	8"	24"	1#6 T&B
≤ 6'-8"	12"	8"	2#5
> 6'-8" - 12'-0"	12"	16"	2#5 T&B
> 12'-0" - 14'-0"	12"	24"	2#5 T&B



NOTES:
1. LINTELS SUPPORT WEIGHT OF WALL ONLY. NO SUPERIMPOSED LOADS.
2. LINTEL TO BEAR 8" ON EITHER SIDE OF OPENING, MINIMUM.
3. GROUT BEARING CELLS SOLID FROM FOUNDATION TO FRAMING ABOVE, AND PROVIDE 1#5 MINIMUM FULL HEIGHT CONTINUOUS BAR. SEE 9/S-0.06.
4. 6" CMU WALLS AND LINTELS ARE PERMITTED FOR INTERIOR CONDITIONS ONLY.
5. REINFORCING BARS SHALL HAVE 1/2" MINIMUM CLEAR COVER TO INSIDE FACE OF MASONRY AND 1" CLEAR TO OTHER REINFORCING BARS. SINGLE REINFORCING BARS SHALL BE CENTERED IN LINTEL.

7 S-0.06 TYPICAL DECK PENETRATION ≤ 2'-0"

8 S-0.06 TYPICAL DETAIL AT COMPOSITE FLOOR OPENING

9 S-0.06 TYPICAL NONBEARING CMU WALL REINFORCING

10 S-0.06 BRICK AND CMU LINTEL SCHEDULES

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05.06.20	FOR PRICING

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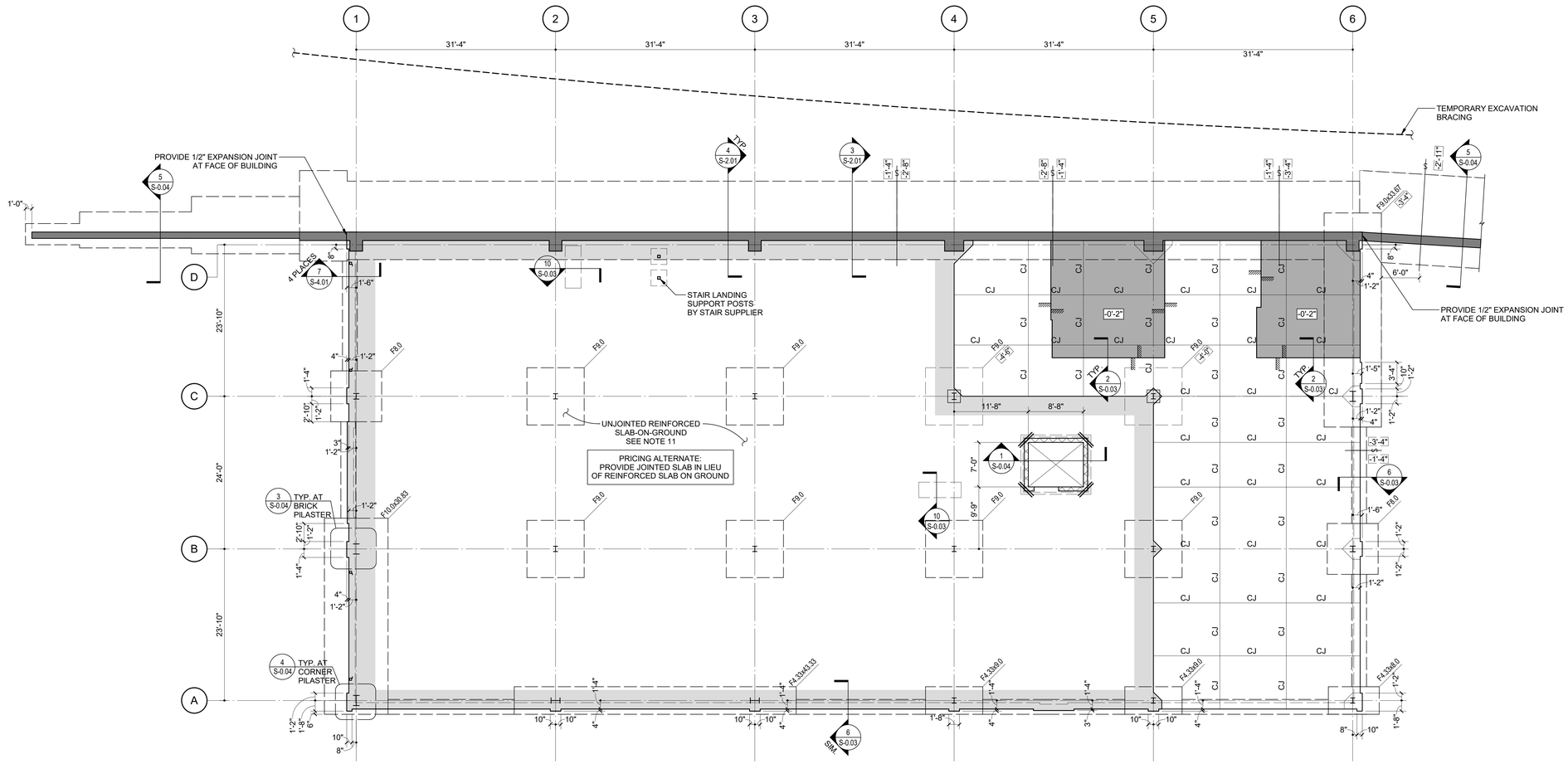
TYPICAL STEEL SECTIONS & DETAILS

S-0.06



1ST FLOOR FOUNDATION PLAN

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

REFERENCE ELEVATION = 1053.50'

FOUNDATION AND SOG NOTES:

1. X'-X" INDICATES TOP OF SLAB ELEVATION WITH RESPECT TO 1ST FLOOR REFERENCE ELEVATION. TYPICAL TOP OF SLAB = +0'-0"
2. SLAB-ON-GROUND THICKNESS IS 5", U.N.O. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
3. INDICATES STEP IN FOOTING, SEE 13/S-0.03
4. 'CJ' INDICATES CONTRACTION JOINT, SEE 3/S-0.03. CONTRACTION JOINTS ONLY IN SLAB-ON-GROUND AND TOPPING SLABS. DO NOT CUT IN STRUCTURED SLABS. SEE 1/S-0.03 FOR CONSTRUCTION JOINT DETAIL.
5. INDICATES REINFORCING AT CONTRACTION JOINT ENDS, SEE DETAIL 9/S-0.03 FOR ADDITIONAL INFORMATION.
6. ALL FOOTINGS ARE CENTERED ABOUT COLUMN CENTERLINES, U.N.O.
7. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF DRAINS, SLOPES, AND CONTOURS OF AREAS SLOPED TO DRAIN NOT SHOWN. COORDINATE BEFORE POURING.
8. SEE S-3.01 FOR COLUMN SCHEDULE.
9. SEE 10/S-0.03 FOR THICKENED SLAB AT BASE OF STEEL STAIR, TYPICAL.
10. INDICATES EXTENTS OF DEPRESSED SLAB. SEE ARCH. DRAWINGS.
11. INDICATES EXTENTS OF REINFORCED SLAB-ON-GROUND WITHOUT CONSTRUTION OR EXPANSION JOINTS. REINFORCE w/ #4@8" EACH WAY 1-1/2" CLEAR FROM TOP OF SLAB. WHERE EMBEDDED ITEMS PENETRATE BOTTOM OF SLAB, WRAP IN SOFT, PREFORMED JOINT FILLER STRIPS PER 3/S-3.01. WHERE EMBEDDED ITEMS INTERRUPT REINFORCING, PROVIDE ADDITIONAL REINFORCING PER 3/S-3.01.

LEGEND:

FX.X — INDICATES SPREAD FOOTING TYPE. SEE 12/S-3.01.

X'-X" — INDICATES TOP OF FOOTING ELEVATION, TOP OF FOOTING ELEVATION = -1'-4" BELOW TOP OF SLAB ELEVATION

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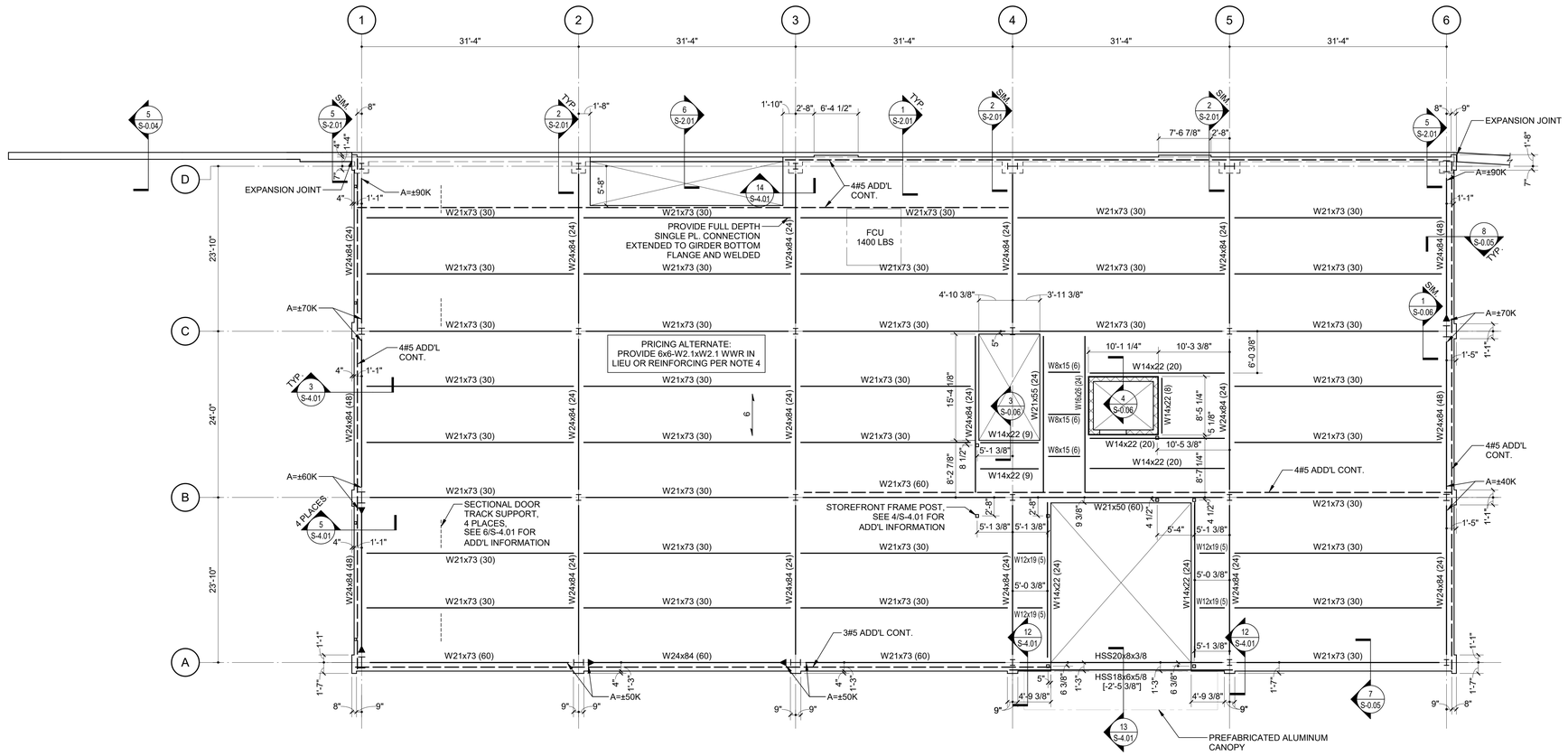
FOUNDATION AND SLAB-ON-GROUND PLAN

S-1.01

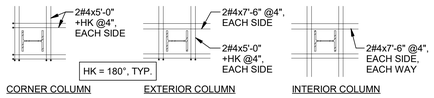


1 S-1.02 2ND FLOOR FRAMING PLAN

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

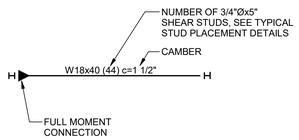
FRAMING NOTES:

1. IN ADDITION TO SECTIONS AND DETAILS REFERENCED IN THIS PLAN, SEE ALL TYPICAL DETAILS.
2. +X'-X" INDICATES TOP OF SLAB RELATIVE TO 1ST FLOOR REFERENCE ELEVATION.
   TYPICAL TOP OF SLAB ELEVATION = +15'-0"
3. [-X'-X"] INDICATES TOP OF STEEL WITH RESPECT TO TYPICAL TOP OF SLAB ELEVATION.
4. 6 INDICATES SPAN DIRECTION OF SLAB CONSTRUCTION: 3" 20 GAUGE (MIN) COMPOSITE FLOOR DECK TOPPED WITH 3" NORMAL WEIGHT (145 PCF) CONCRETE, REINFORCED WITH #4@8", 1-1/4" CLR. FROM TOP OF SLAB (6" TOTAL).
5. SPACE STEEL BEAMS EQUALLY BETWEEN COLUMNS, U.N.O.
6. CANTILEVER BEAMS HAVE THE SAME SIZES AS THE BEAMS IN THE BACKSPANS, U.N.O.
7. 'A=±xxK' INDICATES FACTORED AXIAL FORCE. PROPORTION CONNECTIONS FOR 'A' IN COMBINATION WITH SHEAR FORCE. INDICATED AXIAL FORCE MUST BE TRANSFERRED THROUGH COLUMN TO ADJACENT MEMBER.
8. EDGE OF SLAB AT OPENINGS IS LOCATED 6" FROM THE BEAM CENTERLINE, U.N.O.
9. SEE SHEET S-3.01 FOR COLUMN SCHEDULE.
10. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF DRAINS AND FLOOR SLOPE INFORMATION.
11. COORDINATE ELEVATOR OPENING DIMENSIONS WITH PURCHASED EQUIPMENT.
12. TYPICAL REBAR LAYOUT IN SLAB AT COLUMNS IS AS SHOWN BELOW.



CORNER COLUMN EXTERIOR COLUMN INTERIOR COLUMN

FRAMING LEGEND:



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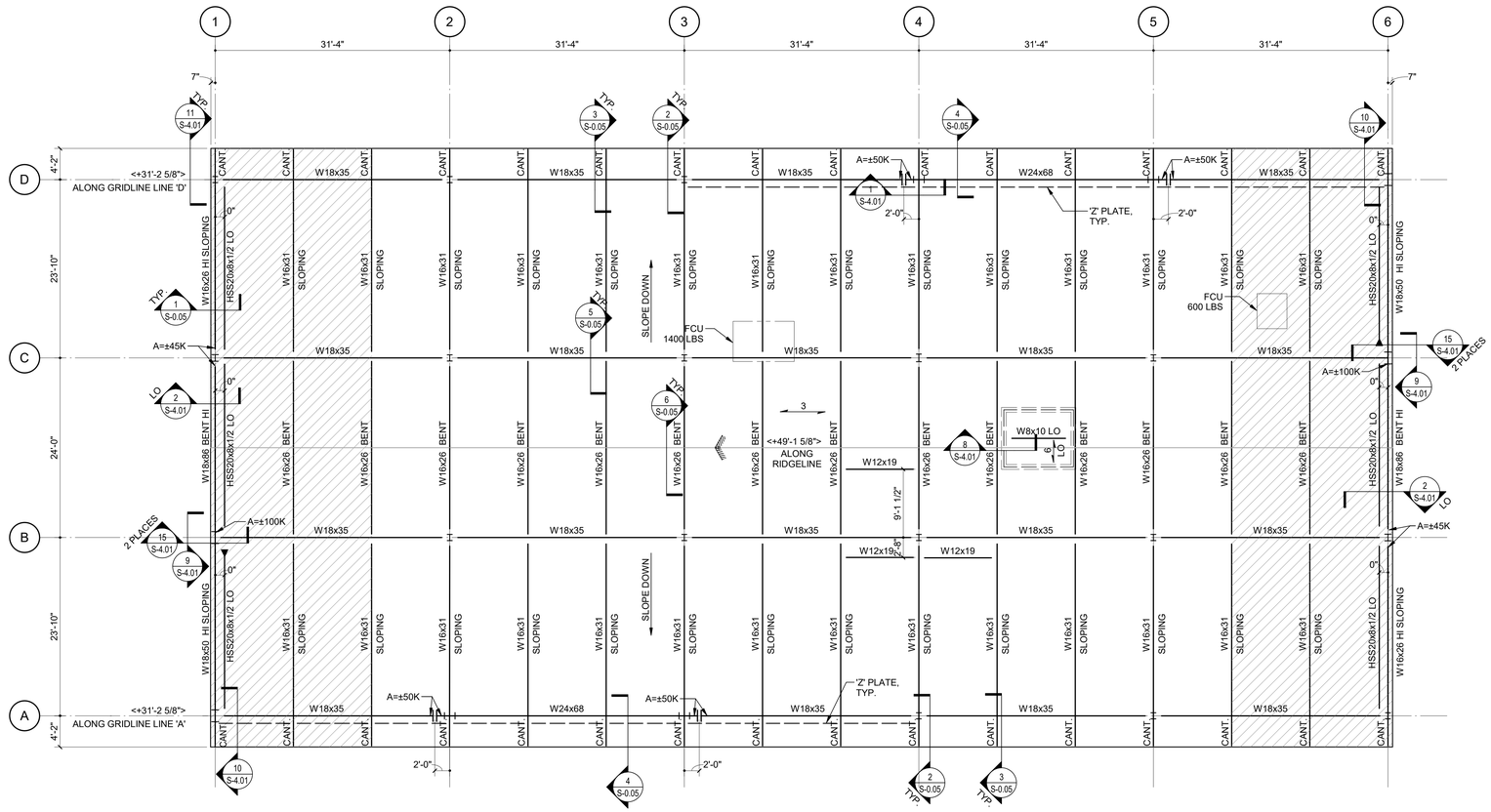
2ND FLOOR FRAMING PLAN

S-1.02



1 S-1.03 ROOF FRAMING PLAN

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

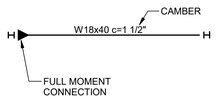
REFERENCE ELEVATION = +30'-0"
ABOVE 1ST FLOOR REFERENCE ELEVATION

N

FRAMING NOTES:

1. IN ADDITION TO SECTIONS AND DETAILS REFERENCED IN THIS PLAN, SEE ALL TYPICAL DETAILS.
2. <X'-X"> INDICATES DECK BEARING ELEVATION WITH RESPECT TO 1ST FLOOR REFERENCE ELEVATION.
3. 3 — INDICATES SPAN DIRECTION OF STEEL ROOF DECK: 3" 20 GAUGE (MIN.) GALVANIZED STEEL ROOF DECK. SUBMIT PRODUCT DATA FOR REVIEW INCLUDING SPAN TABLES.
   6 — INDICATES SPAN DIRECTION OF SLAB CONSTRUCTION: 3" 20 GAUGE (MIN) COMPOSITE FLOOR DECK TOPPED WITH 3" NORMAL WEIGHT (145 PCF) CONCRETE, REINFORCED WITH 6x6-W2.9xW2.9 WWR (6" TOTAL).
4. INDICATES METAL ROOF DECK TO BE ATTACHED TO SUPPORTS w/ 5/8"Ø PUDDLE WELDS w/ 24/4 PATTERN AND SCREWED SIDELAPS w/#10 TEK SCREWS AT 8"
5. SPACE STEEL BEAMS EQUALLY BETWEEN COLUMN LINES, U.N.O.
6. CANTILEVER BEAMS HAVE THE SAME SIZES AS THE BEAMS IN THE BACKSPAN, U.N.O.
7. 'A=±xxK' INDICATES FACTORED AXIAL FORCE. PROPORTION CONNECTIONS FOR 'A' IN COMBINATION WITH SHEAR FORCE. INDICATED AXIAL FORCE MUST BE TRANSFERRED THROUGH COLUMN TO ADJACENT MEMBER.
8. EDGE OF DECK AT OPENINGS IS LOCATION 6" FROM THE BEAM CENTERLINE, U.N.O.
9. SEE SHEET S-3.01 FOR COLUMN SCHEDULE.

FRAMING LEGEND:



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04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

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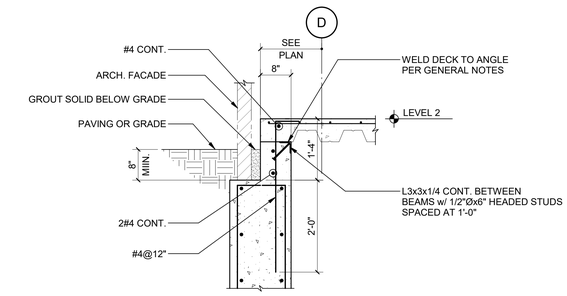
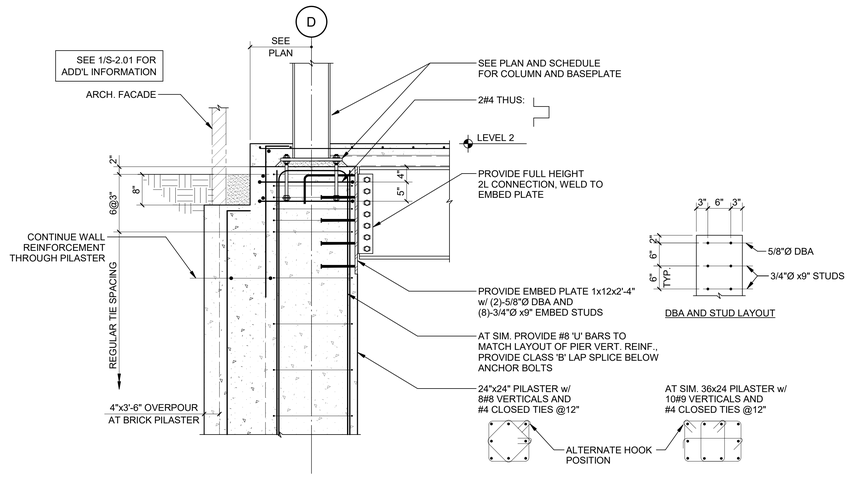
ROOF FRAMING PLAN

S-1.03



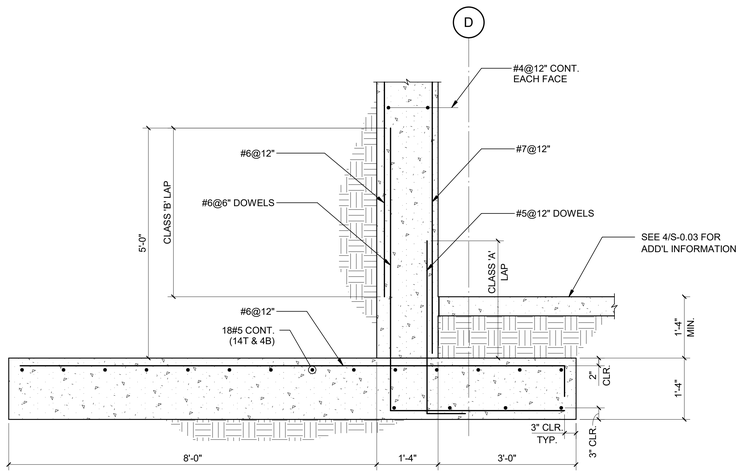
1 S-2.01 SECTION AT HEAD OF RETAINING WALL

SCALE: 3/4" = 1'-0"



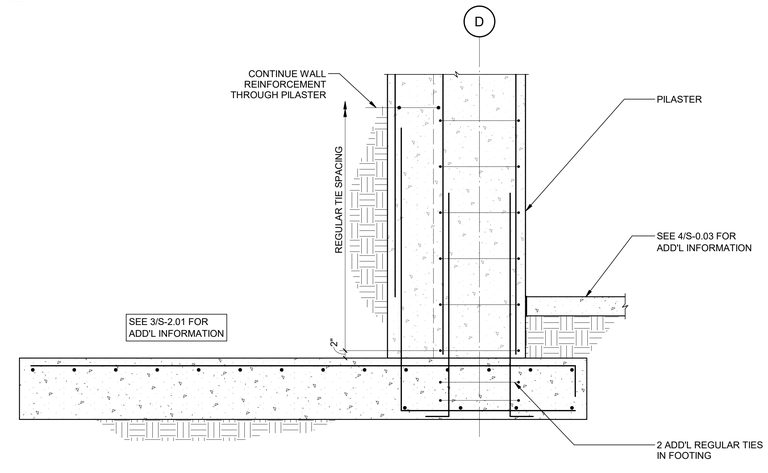
2 S-2.01 SECTION AT HEAD OF PILASTER

SCALE: 3/4" = 1'-0"



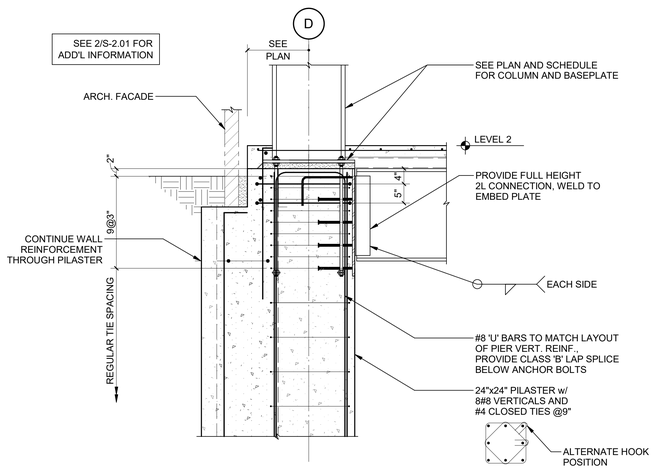
3 S-2.01 SECTION AT RETAINING WALL (16'-4" MAX. RETAINED HEIGHT)

SCALE: 3/4" = 1'-0"



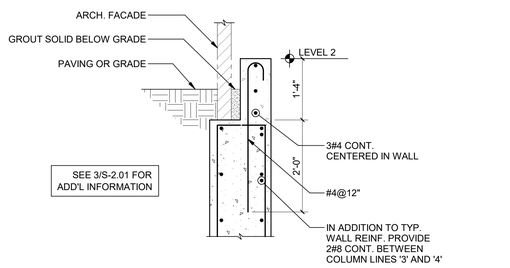
4 S-2.01 SECTION AT BASE OF PILASTER

SCALE: 3/4" = 1'-0"



5 S-2.01 SECTION AT CORNER PILASTER

SCALE: 3/4" = 1'-0"



6 S-2.01 SECTION AT HEAD OF WALL AT STAIR

SCALE: 3/4" = 1'-0"

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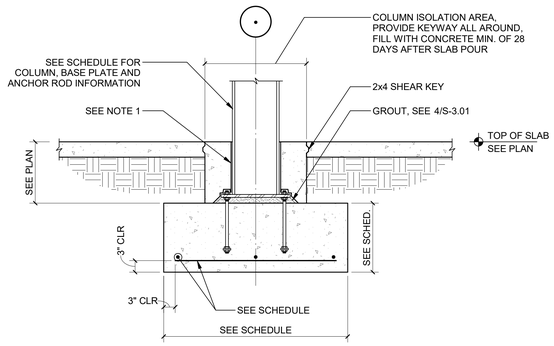
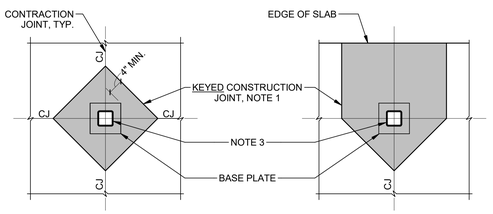
CONCRETE SECTIONS AND DETAILS

S-2.01

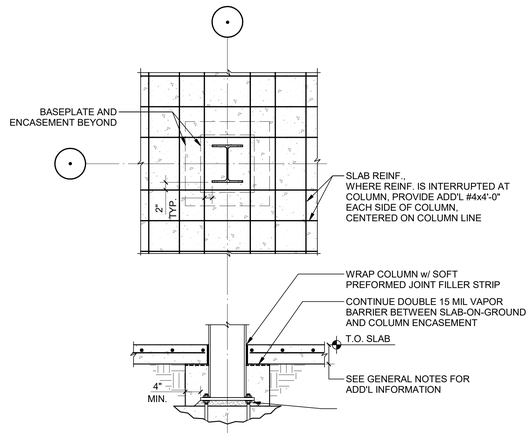


1 S-3.01 TYPICAL COLUMN AND FOOTING DETAIL

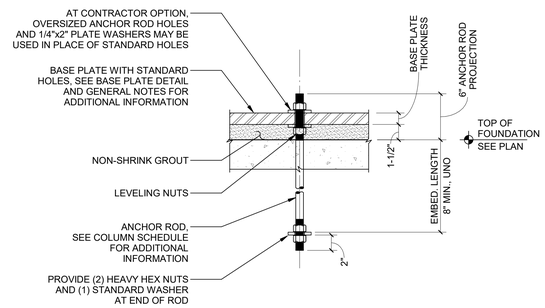


NOTES:
1. SEE TYPICAL COLUMN AND FOOTING DETAIL FOR ADDITIONAL INFORMATION.
2. INDICATES AREA TO INFILL A MINIMUM OF 28 DAYS AFTER PLACING SLAB ON GROUND.
3. AT WIDE FLANGE COLUMNS, INDENT ISOLATION JOINT MATERIAL TO FOLLOW SECTION PROFILE. JOINT FILLER STRIP PER SPECIFICATIONS.

2 S-3.01 TYPICAL SLAB ISOLATION JOINT AT COLUMN

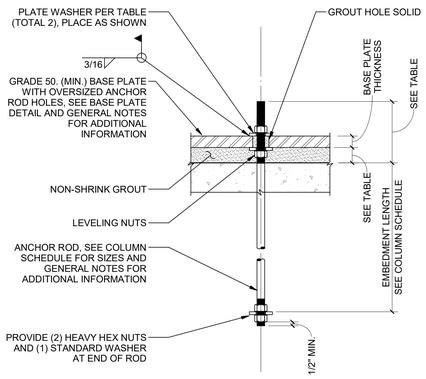


3 S-3.01 SLAB DETAIL AT COLUMN w/ NO ISOLATION JOINT



NOTES:
1. CIRCULAR OR SQUARE WASHERS ARE ACCEPTABLE.

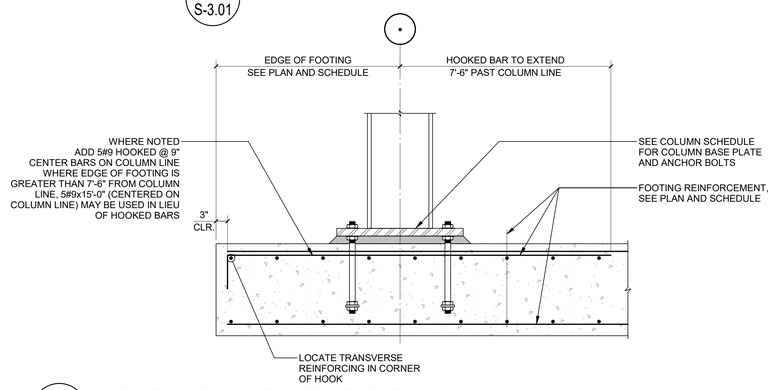
4 S-3.01 TYPE A ANCHOR ROD DETAIL



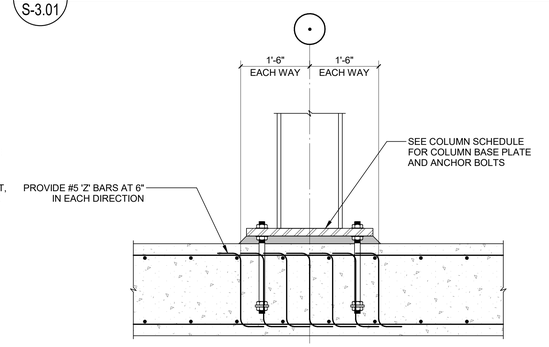
5 S-3.01 TYPE B ANCHOR ROD DETAIL

ANCHOR BOLT AND PLATE WASHER TABLE			
ANCHOR ROD	ANCHOR ROD PROJECTION	PLATE WASHER	GROUT THICKNESS
3/4" Ø	8"	1/4"x2"	2"
1" Ø	8"	3/8"x3"	2"
1 1/4" Ø	10"	1/2"x3-1/2"	3"
1 1/2" Ø	10"	1/2"x4"	3"
1 3/4" Ø	10"	5/8"x4-1/2"	3"
2" Ø	12"	3/4"x5"	4"
2 1/2" Ø	12"	7/8"x5-1/2"	4"

NOTES:
1. CIRCULAR OR SQUARE WASHERS ARE ACCEPTABLE.



6 S-3.01 SUPPLEMENTAL SHEAR REINFORCEMENT
SCALE: 3/4" = 1'-0"

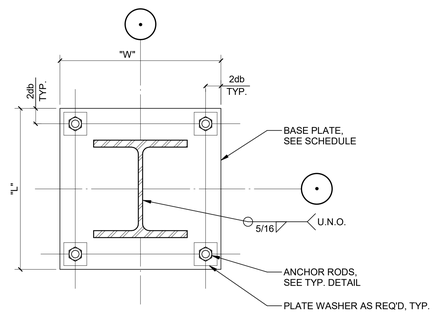


7 S-3.01 SUPPLEMENTAL TENSION REINFORCEMENT
SCALE: 3/4" = 1'-0"

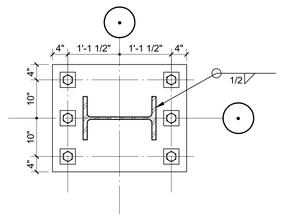
STEEL COLUMN SCHEDULE

ROOF											ROOF
30'-0"											30'-0"
LEVEL 2											LEVEL 2
15'-0"	W10x33	W10x39	W10x77	W12X45	W16x100	W18x119	W18x119	PILASTER	PILASTER	PILASTER	15'-0"
LEVEL 1											LEVEL 1
0'-0"											0'-0"
BASE PLATE SIZE "T'x'W'x'L"	1"x16"x1'-4"	1-1/4"x16"x1'-4"	1"x17"x1'-5"	1-1/2"x18"x1'-6"	1-3/4"x24"x2'-6"	2-1/4"x35"x2'-4"	3-3/4"x24"x4'-4"	3/4"x16"x1'-4"	1-1/2"x20"x2'-8"	2"x24"x2'-0"	
ANCHORS	(4)-3/4"Ø	(4)-3/4"Ø	(4)-3/4"Ø	(4)-3/4"Ø	(4)-1-1/2"Ø	(6)-2"Ø	(12)-1-1/2"Ø	(4)-3/4"Ø	(4)-2"Ø	(4)-1-3/4"Ø	
ANCHOR TYPE	TYPE A	TYPE A	TYPE A	TYPE A	TYPE B	TYPE B	TYPE B	TYPE A	TYPE B	TYPE B	
COLUMN LOCATIONS	A-4, A-5, A-6	B-2, B-3, B-4, B-5, B-6, C-1, C-2, C-3, C-5	B-6, C-1	C-4	A-2, A-3	A-1, B-1	C-6	D-1, D-2, D-3	D-4, D-5	D-6	
NOTES					15" EMBED. NOTE 1	18" EMBED. NOTE 1 NOTE 2	18" EMBED. NOTE 1 NOTE 3		20" EMBED. NOTE 4	27" EMBED.	

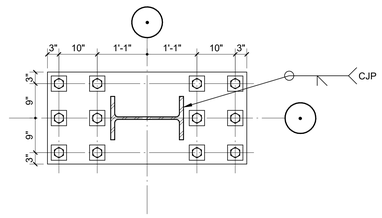
NOTES:
1. PROVIDE SUPPLEMENTARY FOUNDATION REINFORCEMENT PER 6/S-3.01 AND 7/S-3.01.
2. SEE 9/S-3.01 FOR BASE PLATE DETAIL.
3. SEE 10/S-3.01 FOR BASE PLATE DETAIL.
4. SEE 11/S-3.01 FOR BASE PLATE DETAIL.



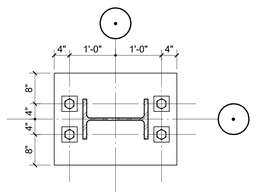
8 S-3.01 TYPICAL BASE PLATE DETAIL



9 S-3.01 DETAIL AT BASE PLATE
SCALE: 3/4" = 1'-0"



10 S-3.01 DETAIL AT BASE PLATE
SCALE: 3/4" = 1'-0"



11 S-3.01 DETAIL AT BASE PLATE
SCALE: 3/4" = 1'-0"

FOOTING SCHEDULE (2500 PSF)

MARK	FOOTING SIZE	BOTTOM REINF., TYP. UNO (EACH WAY UNO)
F8.0	8'-0"x8'-0"x1'-6"	8#6
F9.0	9'-0"x9'-0"x1'-8"	9#6
F4.33x8.0	4'-4"x8'-0"x1'-6"	4#6 LONG ;11#5 HOOKED SHORT
F4.33x9.0	4'-4"x9'-0"x1'-6"	4#6 LONG; 12#5 HOOKED SHORT
F4.33x43.33	4'-4"x43'-4"x1'-6"	8#4T LONG, 8#8B LONG; #4@12" T&B SHORT
F9.0x33.67	9'-0"x33'-8"x2'-0"	9#8T LONG, 15#8B LONG; #5@6"T&B SHORT
F10.0x30.83	10'-0"x30'-10"x2'-0"	13#7T&B LONG; #5@10"T&B SHORT

NOTES:
1. UNLESS NOTED OTHERWISE, FOUNDATIONS SUPPORTING MULTIPLE COLUMNS TO BE CENTERED BETWEEN COLUMNS.

12 S-3.01 FOOTING SCHEDULE

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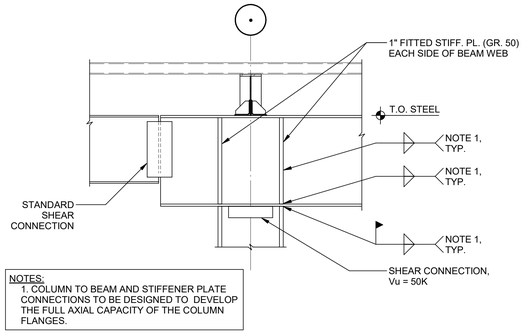
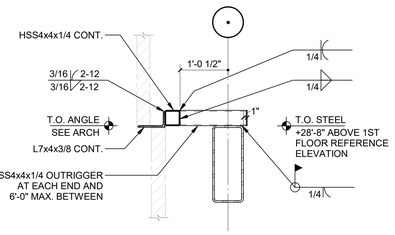
STEEL COLUMN SCHEDULE AND DETAILS

S-3.01



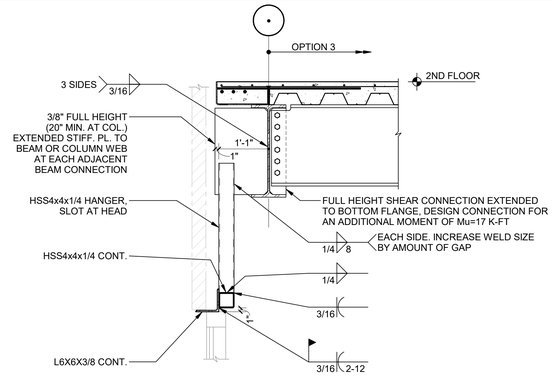
1 S-4.01 SECTION AT BEAM-COLUMN CONNECTION

SCALE: 3/4" = 1'-0"



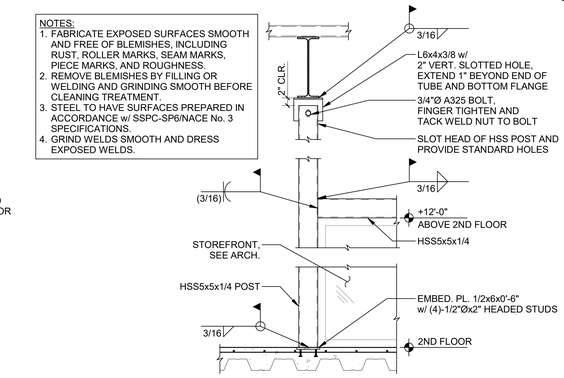
2 S-4.01 SECTION AT BRICK SUPPORT

SCALE: 3/4" = 1'-0" OPTION 1



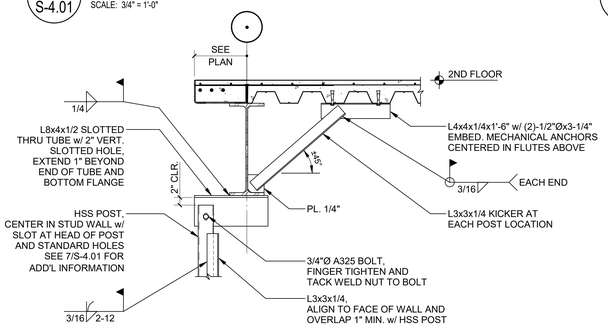
3 S-4.01 SECTION AT BRICK SUPPORT

SCALE: 3/4" = 1'-0" OPTION 1



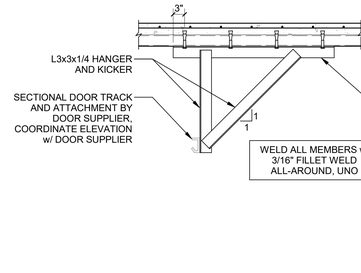
4 S-4.01 DETAIL AT STOREFRONT FRAME

OPTION 1

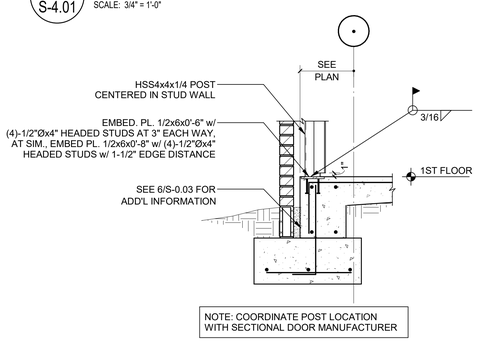


5 S-4.01 SECTION AT HEAD OF SECTIONAL DOOR JAMB POST

SCALE: 3/4" = 1'-0"

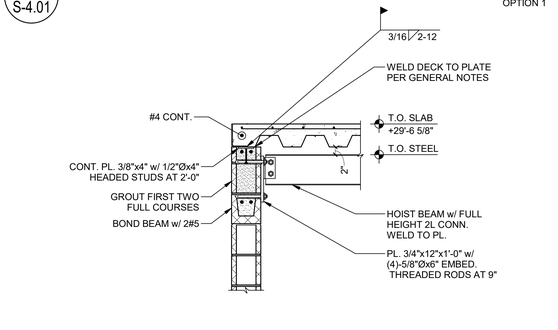


6 S-4.01 SECTION AT SECTIONAL DOOR TRACK SUPPORT



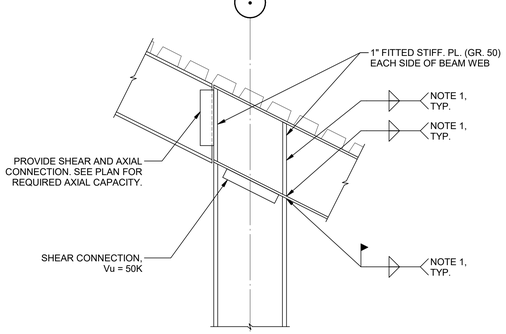
7 S-4.01 SECTION AT POST BASE

SCALE: 3/4" = 1'-0"



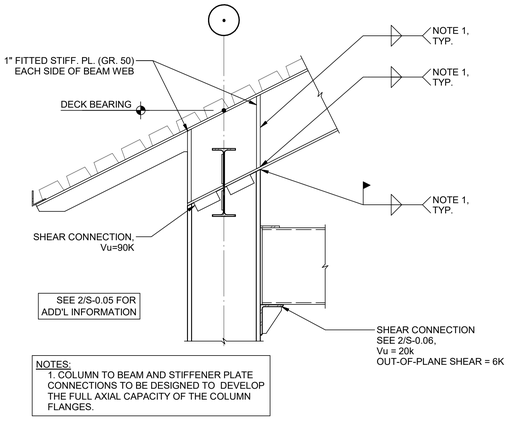
8 S-4.01 SECTION AT HOIST BEAM

SCALE: 3/4" = 1'-0"



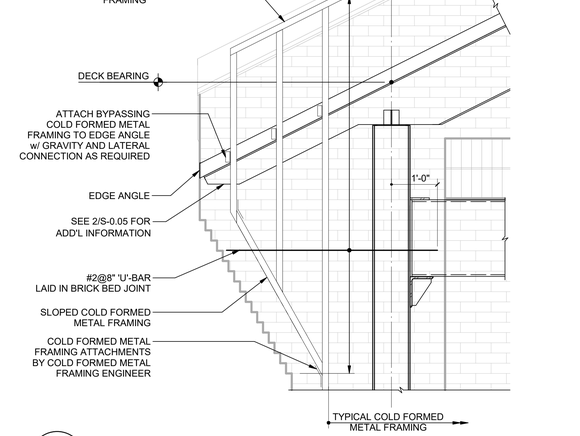
9 S-4.01 SECTION AT BEAM-COLUMN CONNECTION

SCALE: 3/4" = 1'-0"



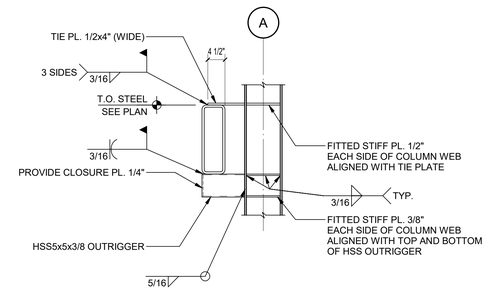
10 S-4.01 SECTION AT COPED-BEAM MOMENT CONNECTION

SCALE: 3/4" = 1'-0"



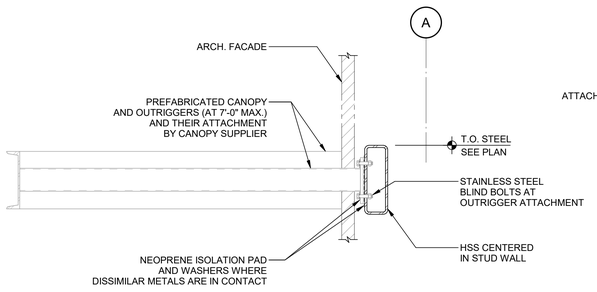
11 S-4.01 SECTION AT BRICK SUPPORT

SCALE: 3/4" = 1'-0"



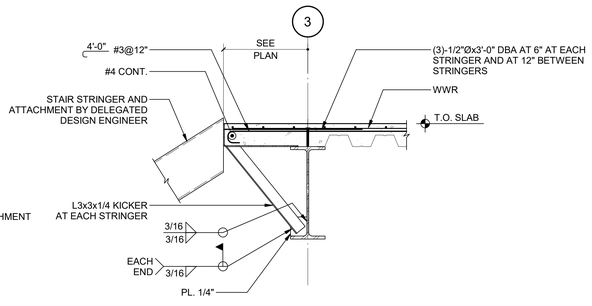
12 S-4.01 SECTION AT CANOPY SUPPORT BEAM CONNECTION

SCALE: 3/4" = 1'-0" OPTION 1



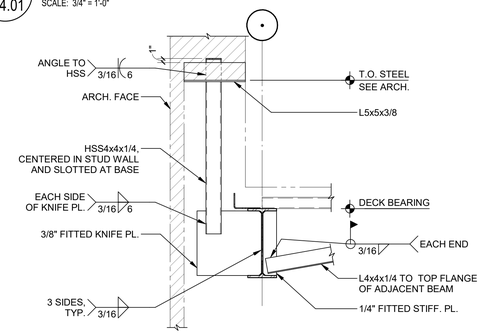
13 S-4.01 SECTION AT PREFABRICATED CANOPY

SCALE: 3/4" = 1'-0"



14 S-4.01 SECTION AT STAIR TO SLAB EDGE CONNECTION

SCALE: 3/4" = 1'-0"



15 S-4.01 SECTION AT BRICK SUPPORT

SCALE: 3/4" = 1'-0"

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STEEL SECTIONS AND DETAILS

S-4.01

SPECIFICATIONS

GENERAL:

- COOLING DESIGN CONDITIONS ARE 75ºF, 60% RH INDOOR AT 93ºF DB/75ºF WB OUTDOOR.
- HEATING DESIGN CONDITIONS ARE 68ºF INDOOR AT 23ºF OUTDOOR.
- ALL HVAC WORK SHALL BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES.
- THE MECHANICAL CONTRACTOR SHALL VISIT THE SITE TO DETERMINE ALL PRE-EXISTING CONDITIONS AND WORK NECESSARY PRIOR TO SUBMISSION OF BID PRICE.
- THE MECHANICAL CONTRACTOR SHALL BE FAMILIAR WITH ALL CONTRACT DOCUMENTS FOR ALL TRADES AND COORDINATE WITH OTHER CONTRACTORS.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, PIPING, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS. COORDINATION SHALL OCCUR PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY MECHANICAL COMPONENTS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.
- DRAWINGS ARE DIAGRAMMATIC ONLY; FINAL ROUTING OF DUCTWORK, PIPING AND EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC., SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO THE OWNER.
- EXTERNAL STATIC PRESSURE DOES NOT INCLUDE COIL, CASING OR FILTER PRESSURE DROP.
- SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE DESIGN TEAM PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY MECHANICAL EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE: ALL EQUIPMENT SCHEDULED OR SPECIFIED IN THESE DOCUMENTS; DUCTWORK & PIPING DRAWN TO 1/4" SCALE OR THE SCALE SHOWN IN THESE DOCUMENTS; REFRIGERANT PIPING AND CONTROL WIRING SCHEMATICS CERTIFIED BY THE AIR CONDITIONING EQUIPMENT MANUFACTURER. FAILURE TO SUBMIT REFRIGERANT PIPING DRAWINGS SHALL BE CAUSE FOR REJECTION OF THE ENTIRE SUBMITTAL. LONG LINE REFRIGERANT PIPING APPLICATIONS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT SPLIT SYSTEM LONG-LINE APPLICATION GUIDELINES. DUCTWORK SHOP DRAWINGS SHALL SHOW, AT A MINIMUM: COORDINATED TOP & BOTTOM DUCT ELEVATIONS, ALL OFFSETS, GRAPHIC INDICATION OF ALL DUCT JOINTS AND A DUCT FABRICATION SCHEDULE.
- THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE HVAC WORK COMPLETE AND READY FOR OPERATION.
- ALL HVAC EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.
- ALL HVAC COMPRESSORS SHALL HAVE EXTENDED 5-YEAR MANUFACTURER'S WARRANTY.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE PHASING REQUIREMENTS OF THE PROJECT WITH THE GENERAL CONTRACTOR.
- THE MECHANICAL CONTRACTOR SHALL FURNISH TO THE GENERAL CONTRACTOR ALL INFORMATION REQUIRED FOR SETTING OF WALL, ROOF AND PARTITION OPENINGS FOR HVAC WORK. THIS INFORMATION SHALL BE FURNISHED IN A TIMELY MANNER SUCH THAT CONSTRUCTION SCHEDULE IS NOT JEOPARDIZED.
- THE MECHANICAL CONTRACTOR SHALL FIELD MEASURE EXACT SIZES AND VERIFY ALL OPENINGS FOR SHAFTS AND LOUVERS PRIOR TO SUBMISSION OF SHOP DRAWINGS AND INSTALLATION.
- ANY EXISTING WALL, FLOOR, OR CEILING SURFACE THAT IS DISTURBED DURING THE COURSE OF THE HVAC WORK SHALL BE REPAIRED TO MATCH NEW AND/OR EXISTING CONDITIONS.
- PROVIDE ACCESS PANELS IN NON-ACCESSIBLE CEILINGS AND IN WALL STRUCTURE OF ADEQUATE SIZE TO ALLOW FOR MAINTENANCE, BALANCING AND COMPLETE REPLACEMENT OF EQUIPMENT WITHOUT DISTURBING PERMANENT CONSTRUCTION. ACCESS PANELS IN CEILINGS AND WALLS SHALL BE PROVIDED WHERE SHOWN ON THE PLANS OR NECESSARY TO ACCESS DAMPERS, VALVES, ETC. COORDINATE EXACT LOCATION & SIZES OF ALL ACCESS PANELS WITH THE ARCHITECT DURING THE SHOP DRAWING PROCESS.
- REFER TO ARCHITECTURAL FOR EXACT LOCATION OF OUTDOOR AIR CONDITIONING EQUIPMENT.
- THE CONTROLS CONTRACTOR SHALL COORDINATE THERMOSTAT AND/OR TEMPERATURE SENSOR LOCATIONS WITH THE ARCHITECTURAL PLANS. THERMOSTATS AND TEMPERATURE SENSORS SHALL BE INSTALLED 48" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- PORTIONS OF DUCTWORK AND PIPE INSULATION VISIBLE THROUGH AIR DISTRIBUTION DEVICES IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
- ALL PIPE AND DUCT PENETRATIONS OF FIRE AND/OR SMOKE-RATED ASSEMBLIES SHALL BE FIRE-STOPPED AS REQUIRED TO RESTORE THE ASSEMBLY TO ITS ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY TREMCO, HILTI, 3M OR APPROVED EQUAL.
- ALL ROOF PENETRATIONS TO BE 12" APART AND AT LEAST 12" AWAY FROM CURBS, WALLS, AND DRAIN SUMPS TO PROVIDE ROOFING CONTRACTOR WITH SUFFICIENT ACCESS FOR FLASHING EACH ROOF PENETRATION.
- WHERE ABOVE CEILING VOLUMES ARE UTILIZED AS A RETURN AIR PLENUM, ALL MATERIALS EXPOSED WITHIN THE PLENUMS SHALL BE NON-COMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E84.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL AND PLUMBING REQUIREMENTS WITH THE ELECTRICAL AND PLUMBING CONTRACTORS.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL DRAWINGS PRIOR TO SUBMITTING SHOP DRAWINGS OR ORDERING EQUIPMENT. EQUIPMENT SHALL BE FURNISHED WIRED FOR THE VOLTAGE(S)/PHASE(S) SHOWN ON THE ELECTRICAL PLANS.
- ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH A DISCONNECT SWITCH AT EACH PIECE OF EQUIPMENT. THE MECHANICAL CONTRACTOR SHALL COORDINATE SWITCH TYPE WITH EQUIPMENT CHARACTERISTICS, MANUFACTURER'S RECOMMENDATIONS AND THE ELECTRICAL DRAWINGS.
- ALL REQUIRED CONTROL WIRING (INCLUDING POWER WIRING REQUIRED FOR CONTROL PANELS, DEVICES, ETC.) NOT SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF THE MECHANICAL WORK.
- UNLESS NOTED OTHERWISE, TRANSFORMERS, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED WITH THE EQUIPMENT IT SERVES AND INSTALLED BY THE MECHANICAL CONTRACTOR. MOTOR STARTERS FOR HVAC EQUIPMENT SHALL BE FURNISHED WITH THE MOTOR OR APPARATUS WHICH IT OPERATES. MOTOR STARTER INSTALLATION SHALL BE BY THE ELECTRICAL CONTRACTOR.
- ALL MECHANICAL EQUIPMENT SHALL BE CLEARLY LABELED AND SHOW THE EQUIPMENT TAG USED IN THESE DOCUMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ALL EVAPORATORS AND COOLING COILS LOCATED ABOVE THE LOWEST LEVEL FINISHED FLOOR SHALL BE INSTALLED WITH AN AUXILIARY CONDENSATE DRAIN PAN UNDER THE UNIT. PROVIDE AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUTDOWN THE UNIT UPON DETECTION OF WATER IN THE AUXILIARY DRAIN PAN.
- AS AN ALTERNATE TO THE AUXILIARY CONDENSATE DRAIN PAN, AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUTDOWN THE UNIT UPON DETECTION OF WATER MAY BE INSTALLED IN THE PRIMARY DRAIN LINE, THE OVERFLOW DRAIN LINE OR THE EQUIPMENT-SUPPLIED DRAIN PAN. THE WATER LEVEL DETECTOR SHALL BE LOCATED AT A POINT HIGHER THAN THE PRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM OF SUCH PAN.
- AT THE COMPLETION OF CONSTRUCTION, THE MECHANICAL CONTRACTOR SHALL CLEAN DUCTWORK AND REPLACE ALL FILTERS.
- AFTER CONSTRUCTION, THE ENTIRE HVAC SYSTEM SHALL BE TESTED, ADJUSTED AND BALANCED TO DELIVER THE AIR FLOW QUANTITIES SHOWN IN THESE DOCUMENTS. SUBMIT THE NAME AND REGISTRATION NUMBER OF THE CERTIFIED TEST AND BALANCE AGENCY WITH BID.
- TEST AND BALANCE AGENCY SHALL BE A CERTIFIED MEMBER OF THE AABC OR THE NEBB.

SPECIFICATIONS

AIRSIDE:

- ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA STANDARDS.
- DUCTWORK, UNLESS NOTED OTHERWISE, SHALL BE GALVANIZED STEEL, ASTM A525, CLASS G60 OR G90. FABRICATE AND SUPPORT DUCT IN CONFORMANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE", LATEST EDITION. DUCTWORK SHALL NOT REST ON CEILING TILES, OR CEILING STRUCTURE.
- LOW PRESSURE SUPPLY DUCT PRESSURE CLASS = +1" W.G. CLASS B SEALS, MEDIUM PRESSURE SUPPLY DUCT PRESSURE CLASS = +2" W.G. CLASS B SEALS, RETURN AND EXHAUST DUCTS = -1" W.G. CLASS B SEALS.
- SUPPLY AND RETURN DUCT MAINS FROM AIR HANDLING EQUIPMENT SHALL BE INTERNALLY LINED WITH 1" ACOUSTICAL LINING A MINIMUM OF 10' FROM THE UNIT UNLESS OTHERWISE NOTED. ALL DUCTWORK DIMENSIONS INDICATED ARE INSIDE CLEAR DIMENSIONS. THE SURFACE OF ALL INTERNAL ACOUSTICAL DUCT LINING SHALL BE COATED WITH AN ACRYLIC COATING FORMULATED WITH IMMOBILIZED EPA REGISTERED ANTI-MICROBIAL AGENT PROVEN TO RESIST MICROBIAL GROWTH AS DETERMINED BY ASTM G21 AND G22.
- VOLUME DAMPERS SHALL BE INSTALLED AT ALL LOW PRESSURE SUPPLY, RETURN AND EXHAUST DUCTWORK BRANCH TAKE-OFFS.
- EACH SUPPLY AIR DEVICE BRANCH TAKE-OFF SHALL BE PROVIDED WITH A VOLUME DAMPER. REFER TO DIFFUSER TAKE-OFF DETAIL FOR ADDITIONAL INFORMATION.
- ALL VOLUME DAMPERS LOCATED ABOVE HARD NON-ACCESSIBLE CEILINGS SHALL BE PROVIDED WITH A YOUNG REGULATOR VOLUME DAMPER FOR REMOTE BALANCING OR A DUCT MOUNTED VOLUME DAMPER WITH ACCESS PANEL.
- ALL FANS SUPPLYING MORE THAN 2,000 CFM OF AIR TO ANY SPACE SHALL BE INSTALLED WITH A SMOKE DETECTOR IN THE SUPPLY DUCTWORK. DUCT SMOKE DETECTORS SHALL BE INSTALLED IN THE SUPPLY AIR PATH OF AIR DISTRIBUTION SYSTEMS UTILIZING A COMMON SUPPLY AND/OR RETURN AIR PLENUM WITH A COMBINED DESIGN CAPACITY GREATER THAN 2,000 CFM. THE SMOKE DETECTOR SHALL BE WIRED TO STOP THE FAN UPON DETECTION OF SMOKE. WHERE THE BUILDING IS EQUIPPED WITH A FIRE ALARM SYSTEM, SMOKE DETECTORS SHALL SIGNAL THE FIRE ALARM CONTROL SYSTEM UPON DETECTION OF SMOKE. WHERE THE BUILDING IS NOT EQUIPPED WITH A FIRE ALARM SYSTEM, SMOKE DETECTORS SHALL BE EQUIPPED WITH REMOTE AUDIBLE/VISUAL ALARMS. REMOTE AUDIBLE/VISUAL ALARMS SHALL BE LOCATED AT A CONSISTENTLY OCCUPIED AREA. SMOKE DETECTORS SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR, MOUNTED IN THE DUCT BY MECHANICAL CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR.
- LOCATIONS OF LOUVERS SHOWN ON THE PLANS ARE APPROXIMATE. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION.
- UNLESS NOTED OTHERWISE, INSULATE INTERIOR SUPPLY, RETURN AND OUTDOOR AIR DUCTWORK WITH FIBERGLASS BATT WITH FSK JACKET. DUCTWORK SHALL MEET THE MINIMUM THERMAL RESISTANCE REQUIREMENTS OF THE LOCAL ENERGY CODE. PUNCTURES AND TEARS IN THE FOIL JACKET SHALL BE PATCHED WITH FOIL TAPE TO MAINTAIN THE INTEGRITY OF THE VAPOR BARRIER.
- FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 8'-0" IN LENGTH. FLEXIBLE DUCTWORK SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE AND SHALL BE ROUTED AND SUPPORTED WITHOUT FORMING CRIMPS OR OTHER AIR FLOW RESTRICTIONS. PROVIDE ROUND TO ROUND TRANSITIONS, SQUARE TO ROUND ADAPTERS OR BOOTS TO CONNECT TO AIR DEVICE NECKS WHERE REQUIRED.
- FIRE DAMPERS AND ACCESS PANELS SHALL BE INSTALLED AT ALL DUCT PENETRATIONS, TRANSFER DUCTS OR OPENINGS OF FIRE RATED ASSEMBLIES AND FLOOR PENETRATIONS. FIRE DAMPERS SHALL BE TYPE 'B', BLADES OUT OF AIR STREAM. REFER TO ARCHITECTURAL DRAWINGS FOR ASSEMBLY LOCATIONS. WHERE DUCTS PENETRATE WALLS THAT CARRY BOTH FIRE AND SMOKE RATINGS, THE DAMPERS SHALL BE COMBINATION FIRE SMOKE DAMPERS. COMBINATION FIRE SMOKE DAMPERS SHALL BE PROVIDED WITH POWER IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS. THE MECHANICAL CONTRACTOR SHALL COORDINATE COMBINATION FIRE SMOKE DAMPER POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.

PIPING:

- MINIMUM PIPE SIZE SHALL BE 3/4" UNLESS OTHERWISE NOTED.
- PIPING AT EQUIPMENT SHALL BE SUPPORTED SO THAT NO PIPING OR ACCESSORY LOAD IS CARRIED BY THE EQUIPMENT.
- ALL PIPING ABOVE GRADE SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. PIPING HUNG FROM JOISTS SHALL BE HUNG FROM THE TOP CHORDS OF THE JOISTS.
- CONDENSATE FROM ALL EVAPORATOR COILS SHALL BE TRAPPED AND ROUTED TO THE NEAREST HUB/FLOOR DRAIN, SINK, STORM OR EXTERIOR DRY WELLS. CONDENSATE PIPING SHALL BE INSULATED COPPER IN HVAC PLENUMS, SCHEDULE 40 PVC IS ACCEPTABLE ELSEWHERE. CONDENSATE SHALL BE PUMPED AS REQUIRED.
- REFRIGERANT PIPING SHALL BE TYPE L OR REFRIGERATION SERVICE COPPER TUBING WITH BRAZED JOINTS. SUCTION PIPING SHALL BE INSULATED WITH 3/4" MANVILLE AEROTUBE II PIPE INSULATION OVER TUBING WITHOUT CUTTING. ALL JOINTS AND SEAMS SHALL BE SEALED WITH ADHESIVE.
- REFRIGERANT PIPING CARRYING OTHER THAN GROUP A1 OR B1 REFRIGERANTS AND INTERCONNECTING SEPARATE PIECES OF EQUIPMENT AND PASSING VERTICALLY THROUGH FLOORS FROM ONE STORY TO ANOTHER SHALL BE ENCLOSED IN A CODE APPROVED RIGID AND TIGHT CONTINUOUS FIRE RESISTING PIPE DUCT OR SHAFT HAVING NO OPENINGS INTO FLOORS NOT SERVED BY THE REFRIGERATING SYSTEM, AS REQUIRED BY LOCAL CODE AUTHORITIES. THE PIPE DUCT OR SHAFT SHALL BE VENTED TO OUTDOORS.

APPLICABLE CODES:

INTERNATIONAL FIRE CODE (IFC), 2018 EDITION
    2020 IFC GA AMENDMENTS
INTERNATIONAL PLUMBING CODE (IPC), 2018 EDITION
    2020 IPC GA AMENDMENTS
INTERNATIONAL MECHANICAL CODE (IMC), 2018 EDITION
    2020 IMC GA AMENDMENTS
INTERNATIONAL FUEL GAS CODE (IFGC), 2018 EDITION
    2020 IFGC GA AMENDMENTS
INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2015 EDITION
    2020 SUPPLEMENTS AND AMENDMENTS

SHOP DRAWINGS:

SUBMIT SHOP DRAWINGS FOR REVIEW. PDF FILES PREFERRED. SHOP DRAWINGS SHALL BE BOUND INTO VOLUMES (FILES), WITH EACH VOLUME (FILE) CONTAINING ONE COPY OF ALL SHOP DRAWINGS. ALL SHOP DRAWINGS SHALL BE SUBMITTED SIMULTANEOUSLY; NO SHOP DRAWINGS WILL BE CHECKED UNTIL ALL HAVE BEEN SUBMITTED.

SUBMITTALS SHALL BE SUPPORTED BY DESCRIPTIVE MATERIAL, SUCH AS CATALOG CUTS, DIAGRAMS, PERFORMANCE CURVES AND CHARTS PUBLISHED BY THE MANUFACTURER, TO SHOW CONFORMANCE TO SPECIFICATION AND DRAWING REQUIREMENTS; MODEL NUMBERS ALONE WILL NOT BE ACCEPTABLE. ALL LITERATURE SHALL CLEARLY INDICATE THE SPECIFIED MODEL NUMBER, DIMENSIONS, ARRANGEMENT, RATING AND CHARACTERISTICS OF THE PROPOSED EQUIPMENT. CAPACITIES AND RATINGS SHALL BE BASED ON CONDITIONS INDICATED OR SPECIFIED HEREIN. ANY DEVIATIONS FROM SPECIFIED EQUIPMENT (PARTICULARLY THOSE WHICH REQUIRE COORDINATION WITH OTHER TRADES) SHALL BE CLEARLY NOTED IN A CONCISE LIST ON A SEPARATE SHEET.

GUARANTEE:

GUARANTEE THAT EACH PIECE OF APPARATUS SHALL BE OF THE CUSTOMARY STANDARD AND QUALITY FURNISHED BY THE DESIGNED MANUFACTURER FOR THAT CATALOG NUMBER.

GUARANTEE THAT THE AIR SYSTEMS SHALL OPERATE WITHOUT AERODYNAMIC NOISE GENERATED FROM THE FAULTY INSTALLATION OF DUCT WORK OR ANY COMPONENT OF THE AIR DISTRIBUTION SYSTEM.

GUARANTEE THAT ALL SYSTEMS AND COMPONENTS SHALL BE PROVIDED WITH A ONE YEAR WARRANTY FROM THE TIME OF DATE OF SUBSTANTIAL COMPLETION. THE WARRANTY SHALL COVER ALL MATERIALS AND WORKMANSHIP. DURING THIS WARRANTY PERIOD, ALL DEFECTS IN MATERIALS AND WORKMANSHIP SHALL BE CORRECTED BY REPAIR OR REPLACEMENT WITHOUT INCURRING ADDITIONS TO THE CONTRACT.

WALL LOUVERS:

THE WALL LOUVER SHALL BE AMCA CERTIFIED. THE WALL LOUVER SHALL BE A STATIONARY, DRAINABLE BLADE TYPE. THE LOUVER SHALL INCORPORATE DRAIN GUTTERS IN THE HEAD MEMBER AND HORIZONTAL BLADES TO CHANNEL WATER TO THE JAMBS WHERE WATER IS FURTHER CHANNELED THROUGH VERTICAL DOWNSPOUTS AND OUT A SLOPED SILL.

THE FRAME AND BLADES SHALL BE CONSTRUCTED FROM HEAVY GAUGE, EXTRUDED, ALUMINUM. THE LOUVER SHALL BE OF MECHANICALLY FASTENED CONSTRUCTION.

REFER TO THE EQUIPMENT SCHEDULE FOR A FULL LISTING OF REQUIRED LOUVER ACCESSORIES.

SPECIFICATIONS

GENERAL NOTES:

REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED EQUIPMENT.

ALL DUCT DIMENSIONS INDICATED IN THESE DOCUMENTS ARE INSIDE-CLEAR DIMENSIONS.

PORTIONS OF DUCTWORK OR PIPING VISIBLE THROUGH GRILLES AND REGISTERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK. PAINT BLACK BEHIND ALL GRILLES.

ALL WIRING IN THE CEILING PLENUM SHALL BE PLENUM RATED CABLE.

MOUNTING FRAME OF CEILING MOUNTED AIR DISTRIBUTION DEVICES SHALL BE COMPATIBLE WITH CEILING TYPE. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE.

ALL FIRE SEPARATIONS MUST BE PROTECTED WHEN APPLICABLE.

PROVIDE NEW FILTERS (MERV 7 OR BETTER PER OWNER) FOR ALL APPLICABLE HVAC EQUIPMENT AT THE END OF CONSTRUCTION.

ALL MATERIAL IN PLENUM MUST MEET FIRE AND SMOKE SPREAD AS REQUIRED BY NFPA 90A.

ALL ROOF PENETRATIONS TO BE 12" APART AND AT LEAST 12" AWAY FROM CURBS, WALLS, AND DRAIN SUMPS TO PROVIDE ROOFING CONTRACTOR WITH SUFFICIENT ACCESS FOR FLASHING EACH ROOF PENETRATION.

SUBSTITUTIONS MUST BE APPROVED IN WRITING BY ARCHITECT PRIOR TO BID SUBMISSION.

CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND SHALL BE FAMILIAR WITH THE SCOPE AND REQUIREMENTS OF THIS PROJECT. ANY DISCREPANCIES OR LACK OF CLARITY IN THE DOCUMENTS SHALL BE IDENTIFIED TO THE ARCHITECT OR ENGINEER PRIOR TO THE SUBMISSION OF PRICING BIDS. WITH A SUBMITTED BID, CONTRACTOR IS ACCEPTING THESE DOCUMENTS AS SUFFICIENT DEFINITION OF THE SCOPE OF WORK, AND ANY ADDITIONAL COSTS BASED ON UNCLARITY OF CONTRACT DOCUMENTS WILL NOT BE CONSIDERED.

THE CONTRACTOR SHALL REFERENCE THE FULL SET OF CONSTRUCTION DOCUMENTS DURING PRICING AND CONSTRUCTION FOR COORDINATION BETWEEN DISCIPLINES RELATIVE TO THE MECHANICAL SCOPE.

DUCTWORK AND ACCESSORIES:

INDUSTRY STANDARDS: COMPLY WITH SMACNA (SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION) HVAC DUCT CONSTRUCTION STANDARDS, RECOMMENDATIONS FOR FABRICATION, GAUGES, CONSTRUCTION AND DETAILS, AND INSTALLATION PROCEDURES, EXCEPT AS OTHERWISE INDICATED.

COMPLY WITH ASHRAE (AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS) FUNDAMENTALS HANDBOOK RECOMMENDATIONS, EXCEPT AS OTHERWISE INDICATED.

DUCTWORK METAL AND GAUGES: EXCEPT AS OTHERWISE INDICATED, FABRICATE DUCTWORK FROM GALVANIZED SHEET STEEL COMPLYING WITH ASTM A527, LOCKFORMING QUALITY, WITH ASTM A525 G90 ZINC COATING, MILL PHOSPHATIZED. GAUGES TO COMPLY WITH SMACNA STANDARDS.

DUCT SEALANT: NON-HARDENING, NON-MIGRATING MASTIC OR LIQUID ELASTIC SEALANT (TYPE APPLICABLE FOR THE FABRICATION/INSTALLATION DETAIL) AS COMPOUNDED AND RECOMMENDED BY THE MANUFACTURER SPECIFICALLY FOR SEALING JOINTS AND SEAMS IN DUCTWORK.

DUCTWORK SUPPORT MATERIALS: EXCEPT AS OTHERWISE INDICATED, PROVIDE UPPER ATTACHMENT, HANGERS OF GALVANIZED STEEL STRAPS, OR STEEL RODS AND LOWER ATTACHMENT FOR SUPPORT OF DUCTWORK. HANGING/SUPPORT SYSTEMS SHALL BE IN ACCORDANCE WITH SMACNA REQUIREMENTS.

EXPOSED DUCTWORK SHALL BE DOUBLE-WALL SPIRAL PIPE WITH PAINT GRIP UNLESS OTHERWISE NOTED OR SUBSTITUTION APPROVED BY OWNER.

VOLUNTARY ALTERNATE EXPOSED DUCTWORK SHALL BE SINGLE-WALL SPIRAL PIPE UNLESS OTHERWISE NOTED OR SUBSTITUTION APPROVED BY OWNER. ALL EXPOSED DUCTWORK SHALL BE LINED IN LIEU OF WRAPPED. DUCT LINER THERMAL RESISTANCE SHALL MEET THE MINIMUM VALUES SPECIFIED IN PARAGRAPH 'DUCT INSULATION' BELOW.

DUCT INSULATION:

R-6 SUPPLY, OUTSIDE AND RETURN AIR DUCT INSULATION IN UNCONDITIONED SPACES
R-8 SUPPLY AND RETURN AIR DUCT INSULATION OUTSIDE THE BUILDING
R-8 INSULATION BETWEEN DUCTS AND THE BUILDING EXTERIOR WHEN DUCTS ARE PART OF A BUILDING ASSEMBLY

DIFFUSERS, GRILLES, & REGISTERS:

EGGCRATE GRILLE:

RETURN GRILLES SHALL BE TITUS MODEL 50F FOR THE SIZES AND MOUNTING TYPES AS SHOWN ON THE PLANS AND OUTLET SCHEDULE. RETURN GRILLES MUST PROVIDE A FREE AREA OF AT LEAST 90%. OUTER BORDERS SHALL BE CONSTRUCTED OF HEAVY EXTRUDED ALUMINUM WITH A THICKNESS OF 0.040-0.050 INCH AND SHALL HAVE COUNTERSUNK SCREW HOLES FOR A NEAT APPEARANCE. BORDER WIDTH SHALL BE 1¼ INCHES ON ALL SIDES AND SHALL BE INTERLOCKED AT THE FOUR CORNERS AND MECHANICALLY STAKED TO FORM A RIGID FRAME. CHOICE OF THREE SIZES OF ALUMINUM GRID: ½ X ½ X ½ INCH, ½ X ½ X 1 INCH, OR 1 X 1 X 1 INCH SHALL BE AVAILABLE.

OPTIONAL OPPOSED-BLADE VOLUME DAMPER SHALL BE CONSTRUCTED OF HEAVY GAUGE STEEL OR ALUMINUM. DAMPER MUST BE OPERABLE FROM THE FACE OF THE GRILLE.

DOUBLE DEFLECTION REGISTERS:

ALUMINUM SUPPLY GRILLES SHALL BE OF THE SIZES AND MOUNTING TYPES SHOWN ON THE PLANS AND OUTLET SCHEDULE. THE DEFLECTION BLADES SHALL BE AVAILABLE PARALLEL TO THE LONG OR SHORT DIMENSION OF THE GRILLE OR REGISTER. CONSTRUCTION SHALL BE OF ALUMINUM WITH A 1¼-INCH WIDE BORDER ON ALL SIDES. SIZES 24 X 24 INCHES AND BELOW SHALL HAVE ROLL-FORMED BORDERS WITH A MINIMUM THICKNESS OF 0.032 INCH. LARGER SIZES SHALL BE CONSTRUCTED USING CONTINUOUS ALUMINUM EXTRUSIONS WITH A NOMINAL THICKNESS OF 0.040 THROUGH 0.050 INCH AND SHALL BE INTERLOCKED AT THE FOUR CORNERS AND MECHANICALLY STAKED TO FORM A RIGID FRAME. SCREW HOLES SHALL BE COUNTERSUNK FOR A NEAT APPEARANCE.

DEFLECTION BLADES SHALL BE CONTOURED TO A SPECIFICALLY DESIGNED AND TESTED CROSS-SECTION TO MEET PUBLISHED TEST PERFORMANCE DATA. BLADES SHALL BE SPACED ON ¾-INCH CENTERS. BLADES SHALL HAVE FRICTION PIVOTS ON BOTH SIDES TO ALLOW INDIVIDUAL BLADE ADJUSTMENT WITHOUT LOOSENING OR RATTLING OR BE INSERTED THROUGH THE FRAME AND HELD TIGHT WITH STEEL FRICTION WIRE INTERLOCKED TO THE FRAME ON BOTH ENDS OF EACH SIDE. PLASTIC BLADE PIVOTS ARE NOT ACCEPTABLE.

OPTIONAL OPPOSED BLADE VOLUME DAMPER SHALL BE CONSTRUCTED OF HEAVY GAUGE STEEL OR ALUMINUM. DAMPER MUST BE OPERABLE FROM THE FACE OF THE GRILLE.

THE GRILLE FINISH SHALL BE #26 WHITE. THE FINISH SHALL BE AN ANODIC ACRYLIC PAINT, BAKED AT 315° F FOR 30 MINUTES. THE PENCIL HARDNESS MUST BE HB TO H. THE PAINT MUST PASS A 100-HOUR ASTM B117 CORROSIVE ENVIRONMENTS SALT SPRAY TEST WITHOUT CREEPAGE, BLISTERING OR DETERIORATION OF FILM. THE PAINT MUST PASS A 250-HOUR ASTM D870 WATER IMMERSION TEST. THE PAINT MUST ALSO PASS THE ASTM D2794 REVERSE IMPACT CRACKING TEST WITH A 50-INCH POUND FORCE APPLIED.

THE MANUFACTURER SHALL PROVIDE PUBLISHED PERFORMANCE DATA FOR THE GRILLE. THE GRILLE SHALL BE TESTED IN ACCORDANCE WITH ANSI/ASHRAE STANDARD 70-2006.

PLAQUE DIFFUSERS:

ARCHITECTURAL SQUARE PANEL CEILING DIFFUSERS SHALL BE OF THE SIZES AND MOUNTING TYPES SHOWN ON THE PLANS AND OUTLET SCHEDULE. THE FACE PANEL IS REMOVABLE BY MEANS OF FOUR HANGER BRACKETS. THE EXPOSED SURFACE OF THE FACE PANEL SHALL BE SMOOTH, FLAT, AND FREE OF VISIBLE FASTENERS.
THE BACK OF THE FACE PANEL SHALL HAVE AN AERODYNAMICALLY SHAPED, ROLLED EDGE TO ENSURE A TIGHT HORIZONTAL DISCHARGE PATTERN. CEILING DIFFUSERS WITH A 24 X 24-INCH FULL FACE SHALL HAVE NO LESS THAN AN 18 X 18-INCH FACE PANEL SIZE. CEILING DIFFUSERS WITH A 12 X 12-INCH FULL FACE SHALL HAVE NO LESS THAN A 9 X 9-INCH FACE PANEL SIZE.

THE BACKPAN SHALL BE ONE PIECE PRECISION DIE-STAMPED AND SHALL INCLUDE AN INTEGRALLY DRAWN INLET. THE DIFFUSER NECK SHALL HAVE A MINIMUM OF 1¼-INCH DEPTH AVAILABLE FOR DUCT CONNECTION.

THE FINISH SHALL BE #26 WHITE. THE FINISH SHALL BE AN ANODIC ACRYLIC PAINT, BAKED AT 315ºF FOR 30 MINUTES. THE PENCIL HARDNESS MUST BE HB TO H.

THE PAINT MUST PASS A 100-HOUR ASTM B117 CORROSIVE ENVIRONMENTS SALT SPRAY TEST WITHOUT CREEPAGE, BLISTERING OR DETERIORATION OF FILM. THE PAINT MUST PASS A 250-HOUR ASTM D870 WATER IMMERSION TEST. THE PAINT MUST ALSO PASS THE ASTM D2794 REVERSE IMPACT CRACKING TEST WITH A 50-INCH POUND FORCE APPLIED.

OPTIONAL ROUND DAMPER SHALL BE CONSTRUCTED OF HEAVY GAUGE STEEL. DAMPER MUST BE OPERABLE FROM THE FACE OF THE DIFFUSER. OPTIONAL DIRECTIONAL BLOW CLIPS SHALL BE AVAILABLE TO RESTRICT THE DISCHARGE AIR IN CERTAIN DIRECTIONS.

OPTIONAL MOLDED INSULATION BLANKET SHALL BE AVAILABLE. THE INSULATION WILL BE R-6, FOIL-BACKED, AND PROVIDE AN ADDITIONAL 1-INCH GAP AROUND THE NECK TO INSTALL INSULATED FLEX DUCT.

THE MANUFACTURER SHALL PROVIDE PUBLISHED PERFORMANCE DATA FOR THE SQUARE PANEL DIFFUSER. THE DIFFUSER SHALL BE TESTED IN ACCORDANCE WITH ANSI/ASHRAE STANDARD 70-1991.

SPECIFICATIONS

CEILING FAN:

CEILING MOUNTED EXHAUST FANS SHALL BE OF THE CENTRIFUGAL DIRECT DRIVE TYPE. THE FAN HOUSING SHALL BE CONSTRUCTED OF STEEL. THE PLASTIC DUCT COLLAR SHALL BE A TAPERED SLEEVE FOR EASE OF CONNECTION TO 3 IN AND 4 IN ROUND DUCTWORK AND SHALL INCLUDE A BACKDRAFT DAMPER. THE GRILLE SHALL BE CONSTRUCTED OF NON-YELLOWING HIGH STRENGTH POLYMER AND ATTACHED TO THE HOUSING WITH TORSION SPRINGS. THE WHEELS SHALL BE CONSTRUCTED OF HIGH STRENGTH POLYMER. THE ACCESS FOR WIRING SHALL BE EXTERNAL. THE MOTOR DISCONNECT SHALL BE INTERNAL AND OF THE PLUG IN TYPE.

ALL FANS SHALL BEAR THE AMCA CERTIFIED RATINGS SEALS FOR SOUND AND AIR PERFORMANCE AND SHALL BE U.L. LISTED.

TEST AND BALANCE:

THE CONTRACTOR SHALL RETAIN THE SERVICES OF AN INDEPENDENT TEST AND BALANCE AGENCY THAT IS INDEPENDENT OF ANY CONTRACTOR, SUB-CONTRACTOR, OR MANUFACTURER TO PERFORM THE TESTING AND BALANCING AND PREPARE REPORTS TO THE GENERAL CONTRACTOR. THE INDEPENDENT TEST AND BALANCE AGENCY SHALL HAVE A CERTIFIED MEMBER OF THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB).

TEST AND BALANCE SHALL ALSO PROVIDE QUOTE TO PERFORM BALANCING FOR COMFORT SIX MONTHS AFTER THE SPACE IS OCCUPIED.

P-TAB.COM OR EQUIVALENT.

CENTRIFUGAL INLINE FAN:

DESCRIPTION: FAN SHALL BE DUCT MOUNTED, DIRECT DRIVEN CENTRIFUGAL SQUARE INLINE.

CERTIFICATIONS: FAN SHALL BE MANUFACTURED AT AN ISO 9001 CERTIFIED FACILITY. FAN SHALL BE LISTED BY UNDERWRITERS LABORATORIES (UL 705) AND UL LISTED FOR CANADA (CUL 705). FAN
SHALL BEAR THE AMCA CERTIFIED RATINGS SEAL FOR SOUND AND AIR PERFORMANCE.

CONSTRUCTION: THE FAN SHALL BE OF BOLTED AND WELDED CONSTRUCTION UTILIZING CORROSION RESISTANT FASTENERS. HOUSING SHALL BE MINIMUM 18 GAUGE STEEL WITH AIRFLOW STRAIGHTENING
VANES AND INTEGRAL DUCT FLANGES. HINGED ACCESS DOOR SHALL BE LOCATED IN THE SPECIFIED POSITION. UNIT SHALL BEAR AN ENGRAVED ALUMINUM NAMEPLATE. NAMEPLATE SHALL INDICATE DESIGN CFM AND STATIC PRESSURE. UNIT SHALL BE SHIPPED IN ISTA CERTIFIED TRANSIT TESTED PACKAGING.

COATING: ALL STEEL FAN COMPONENTS SHALL BE LORENIZEDTM WITH AN ELECTROSTATICALLY APPLIED,
BAKED POLYESTER POWDER COATING. EACH COMPONENT SHALL BE SUBJECT TO A FIVE STAGE ENVIRONMENTALLY FRIENDLY WASH SYSTEM, FOLLOWED BY A MINIMUM 2 MIL THICK BAKED POWDER FINISH. PAINT MUST EXCEED 1,000 HOUR SALT SPRAY UNDER ASTM B117 TEST METHOD.

WHEEL: WHEEL SHALL BE CENTRIFUGAL BACKWARD INCLINED, CONSTRUCTED OF 100% ALUMINUM,
INCLUDING A PRECISION MACHINED CAST ALUMINUM HUB. WHEEL INLET SHALL OVERLAP AN AERODYNAMIC ALUMINUM INLET CONE TO PROVIDE MAXIMUM PERFORMANCE AND EFFICIENCY. WHEEL SHALL BE BALANCED IN ACCORDANCE WITH AMCA STANDARD 204-96, BALANCE QUALITY AND VIBRATION LEVELS FOR FANS.

MOTOR: MOTOR SHALL BE HEAVY DUTY TYPE WITH PERMANENTLY LUBRICATED SEALED BEARINGS AND
FURNISHED AT THE SPECIFIED VOLTAGE, PHASE AND ENCLOSURE.

SEE SCHEDULE FOR LIST OF ACCEPTABLE MANUFACTURERS.

HEAT PUMP:

FACTORY ASSEMBLED, SINGLE PIECE, AIR-COOLED HEAT PUMP UNIT. CONTAINED WITHIN THE UNIT ENCLOSURE IS ALL FACTORY WIRING, PIPING, CONTROLS, COMPRESSOR, REFRIGERANT CHARGE OF R-410A, AND SPECIAL FEATURES REQUIRED PRIOR TO FIELD START--UP.

UNIT CABINET WILL BE CONSTRUCTED OF GALVANIZED STEEL, BONDERIZED, AND COATED WITH A POWDER COAT PAINT.

CONDENSER FAN WILL BE DIRECT--DRIVE PROPELLER TYPE, DISCHARGING AIR UPWARD. CONDENSER FAN MOTORS WILL BE TOTALLY ENCLOSED, 1-PHASE TYPE WITH CLASS B INSULATION AND PERMANENTLY LUBRICATED BEARINGS.SHAFTS WILL BE CORROSION RESISTANT.FAN BLADES WILL BE STATICALLY AND DYNAMICALLY BALANCED.
CONDENSER FAN OPENINGS WILL BE EQUIPPED WITH STEEL WIRE SAFETY GUARDS.

COMPRESSOR WILL BE HERMETICALLY SEALED.COMPRESSOR WILL BE MOUNTED ON RUBBER VIBRATION ISOLATORS.

CONDENSER COIL WILL BE AIR COOLED. COIL WILL BE CONSTRUCTED OF ALUMINUM FINS MECHANICALLY BONDED TO COPPER TUBES WHICH ARE THEN CLEANED, DEHYDRATED, AND SEALED.

REFRIGERATION CIRCUIT COMPONENTS WILL INCLUDE LIQUID-LINE SHUTOFF VALVE WITH SWEAT CONNECTIONS, VAPOR--LINE SHUTOFF VALVE WITH SWEAT CONNECTIONS, SYSTEM CHARGE OF R-410A REFRIGERANT, POE COMPRESSOR OIL, ACCUMULATOR, AND REVERSING VALVE.

SEE SCHEDULE FOR LIST OF ACCEPTABLE MANUFACTURERS.

FAN COIL UNIT:

PROVIDE FAN COIL UNIT MANUFACTURER'S STANDARD MATERIALS AND COMPONENTS AS INDICATED BY PUBLISHED PRODUCT INFORMATION, DESIGNED AND CONSTRUCTED AS RECOMMENDED BY MANUFACTURER, AND AS REQUIRED FOR A COMPLETE INSTALLATION.

PROVIDE MANUFACTURER'S STANDARD COIL OF INDICATED TYPE AND RATED FOR INDICATED CAPACITY. COPPER TUBE COILS, MECHANICALLY EXPANDED INTO ALUMINUM PLATE FINS; RATED AT 250 PSIG AND LEAK TESTED AT 350 PSIG MIN. AIR PRESSURE. PROVIDE MANUAL AIR VENTS.

ELECTRIC HEATING COILS SHALL BE AN OPEN GRID TYPE WITH FACTORY INSTALLED HIGH LIMIT CONTROL. HEATER SHALL BE FULLY ACCEPTABLE THROUGH THE DISCHARGE GRILLE OPENINGS.

THE FAN SHALL BE A CENTRIFUGAL, FORWARD CURVED, DOUBLE WIDTH, DOUBLE INLET, DIRECT DRIVE TYPE. BALANCED STATICALLY AND DYNAMICALLY, AND OF INDICATED CAPACITY.

MOTORS SHALL BE OF INDICATED CAPACITY, 3 SPEED, PERMANENT SPLIT CAPACITOR, INSTALLED FOR EASY REMOVAL. PROVIDE MOTORS WITH AUTOMATIC-RESET AND INTEGRAL THERMAL OVERLOAD PROTECTION. MOTORS SHALL BE CAPABLE OF OPERATING AT TEMPERATURES INDICATED ON DRAWINGS WITHOUT OVERLOADING. MOTOR SHALL BE CAPABLE OF FIELD OILING AS REQUIRED.

CABINETS SHALL BE FABRICATED OF 18 GAUGE STEEL AND HAVE BAKED ENAMEL FINISH. ALL SURFACES IN CONTACT WITH AIR STREAM SHALL BE INSULATED WITH HALF INCH THICK, 1-1/2 POUND DENSITY, MATT FACED, GLASS FIBER INSULATION.

THE FILTER SHALL BE ONE INCH THICK, THROWAWAY GLASS FIBER TYPE.

THE DRAIN PAN SHALL BE REMOVABLE AND HAVE SELF EXTINGUISHER THREE (3) POUND DENSITY CELLULAR POLYSTYRENE PLASTIC LINER, THE DRAIN PAN SHALL EXTEND UNDER THE ENTIRE COIL SECTION.

THERMOSTAT SHALL BE 7-DAY PROGRAMMABLE TYPE.

SEE SCHEDULE FOR LIST OF ACCEPTABLE MANUFACTURERS.

SPECIFICATIONS

ELECTRIC WALL HEATER:

ELECTRIC WALL HEATERS SHALL BE QMARK MODEL AWH OR EQUAL.

THE HEATER ASSEMBLY WHICH FITS INTO THE BACK BOX SHALL CONSIST OF A FAN PANEL UPON WHICH IS MOUNTED ALL OF THE OPERATIONAL PARTS OF THE HEATER.

THE HEATING ELEMENT SHALL BE OF NON-GLOWING DESIGN CONSISTING OF AN 80/20 NICKEL-CHROMIUM RESISTANCE WIRE ENCLOSED IN A STEEL SHEATH TO WHICH PLATE FINS ARE COPPER BRAZED. IT SHALL BE WARRANTED FOR 5 YEARS.

THE FAN SHALL BE FIVE-BLADED ALUMINUM. THE FAN MOTOR SHALL BE TOTAL ENCLOSED.

FAN CONTROL SHALL BE OF BI-METALLIC, SNAP-ACTION TYPE AND SHALL ACTIVATE FAN AFTER HEATING ELEMENT REACHES OPERATING TEMPERATURE. THE FAN SHALL CONTINUE TO OPERATE AFTER THE THERMOSTAT IS SATISFIED AND UNTIL THE HEATING ELEMENT IS COOL.

THE TAMPER-PROOF THERMOSTAT SHALL BE OF BI-METALLIC, SNAP-ACTION TYPE WITH ENCLOSED CONTACTS. IT SHALL BE COMPLETELY CONCEALED BEHIND THE FRONT COVER TO BECOME TAMPER PROOF.

A THERMAL CUTOUT SHALL BE BUILT INTO THE SYSTEM TO SHUT OFF THE HEATER IN THE EVENT OF OVERHEATING.

A DOUBLE-POLE SINGLE THROW DISCONNECT SWITCH SHALL BE MOUNTED ON THE BACK BOX FOR POSITIVE DISCONNECT OF POWER SUPPLY. IT WILL BE COMPLETELY CONCEALED BEHIND THE FRONT GRID PANEL.

WHERE SCHEDULED, NORMALLY OPEN 24-VOLT AND 120-VOLT LOW VOLTAGE HOLDING COIL RELAYS SHALL BE AVAILABLE TO CONTROL HEATERS IN CONJUNCTION WITH CENTRAL ENERGY CONTROL SYSTEMS. THE BUILT-IN THERMOSTAT CAN THEN BE USED AS ONE OF THE THERMOSTATS IN AN AUTOMATIC NIGHT SET BACK OPERATION.

THE BACK BOX SHALL BE DESIGNED FOR DUTY AS RECESSED ROUGH-IN BOX IN EITHER MASONRY OR FRAME INSTALLATIONS AND IS ALSO USED WITH THE SURFACE MOUNTING FRAME IN SURFACE MOUNTING INSTALLATIONS. THE BACK BOX SHALL BE 20-GAUGE GALVANIZED STEEL AND SHALL CONTAIN KNOCKOUTS THROUGH WHICH POWER LEADS ARE BROUGHT.

THE FRONT PANEL SHALL BE OF THE BAR GRILLE TYPE AND SHALL BE CONSTRUCTED OF 16-GAUGE COLD-ROLLED STEEL, WELDED INTO A UNIFORM GRILLE AND FINISHED IN BAKED ENAMEL TO DIRECT THE WARMED AIR TOWARD THE FLOOR. THE FRONT GRILLE SHALL BE SURROUNDED BY A DECORATIVE SATIN-FINISH ALUMINUM FRAME.

THE HEATER SHALL BE MADE OF A BACK BOX, A HEATER ASSEMBLY, AND A FRONT PANEL.

REFER TO EQUIPMENT SCHEDULE FOR BASIS OF DESIGN AND ACCEPTABLE ALTERNATES.

CONDENSING UNIT:

EQUIPMENT
— FACTORY ASSEMBLED, SINGLE PIECE, AIR-COOLED CONDENSING UNIT. CONTAINED WITHIN THE UNIT ENCLOSURE IS ALL FACTORY WIRING, PIPING, CONTROLS, COMPRESSOR, REFRIGERANT CHARGE OF R--410A, AND SPECIAL FEATURES REQUIRED PRIOR TO FIELD START--UP.

UNIT CABINET
— UNIT CABINET WILL BE CONSTRUCTED OF GALVANIZED STEEL, BONDERIZED, AND COATED WITH A POWDER COAT PAINT.

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— SHAFTS WILL BE CORROSION RESISTANT.
— FAN BLADES WILL BE STATICALLY AND DYNAMICALLY BALANCED.
— CONDENSER FAN OPENINGS WILL BE EQUIPPED WITH STEEL WIRE SAFETY GUARDS.

COMPRESSOR
— COMPRESSOR WILL BE HERMETICALLY SEALED.
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CONDENSER COIL
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— REFRIGERATION CIRCUIT COMPONENTS WILL INCLUDE LIQUID-LINE SHUTOFF VALVE WITH SWEAT CONNECTIONS, VAPOR--LINE SHUTOFF VALVE WITH SWEAT CONNECTIONS, SYSTEM CHARGE OF R-410A REFRIGERANT, POE COMPRESSOR OIL, AND ACCUMULATOR.

SEE SCHEDULE FOR LIST OF ACCEPTABLE MANUFACTURERS.

FAN COIL UNIT:

GENERAL: EXCEPT AS OTHERWISE INDICATED, PROVIDE FAN COIL UNIT MANUFACTURER'S STANDARD MATERIALS AND COMPONENTS AS INDICATED BY PUBLISHED PRODUCT INFORMATION, DESIGNED AND CONSTRUCTED AS RECOMMENDED BY MANUFACTURER, AND AS REQUIRED FOR A COMPLETE INSTALLATION.

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THERMOSTAT SHALL BE 7-DAY PROGRAMMABLE TYPE.

SEE SCHEDULE FOR LIST OF ACCEPTABLE MANUFACTURERS.

DATE	RELEASE
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: AS
DRAWN BY: AS

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404.330.9798
PROJECT # 120115

DRAWINGS FOR:
Owner
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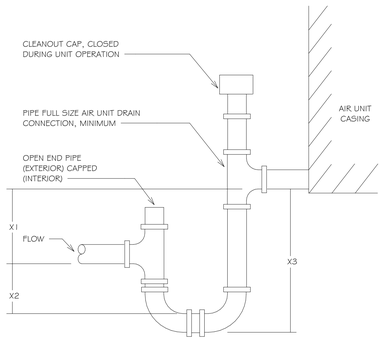
No. PE045247
ANDREW SMITH

PROJECT # O1914-A

GENERAL

M-0.01

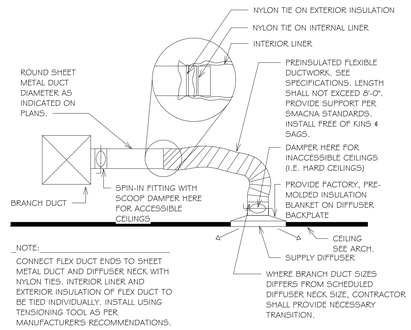


WHERE:

X1 = 1" PLUS MAXIMUM NEGATIVE STATIC PRESSURE
X2 = HALF OF X1
X3 = X1 + X2 + PIPE Ø + INSULATION

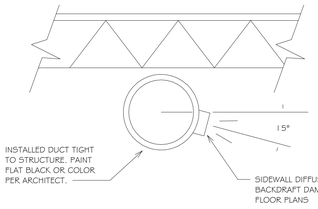
NOTES
1. LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.

1 M-0.02 CONDENSATE TRAP
N.T.S.



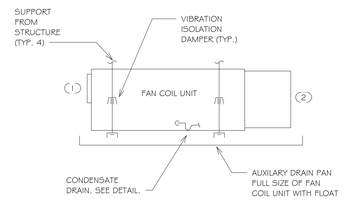
NOTE:
CONNECT FLEX DUCT ENDS TO SHEET METAL DUCT AND DIFFUSER NECK WITH NYLON TIES. INTERIOR LINER AND EXTERIOR INSULATION OF FLEX DUCT TO BE TIED INDIVIDUALLY. INSTALL USING TENSIONING TOOL AS PER MANUFACTURER'S RECOMMENDATIONS.

2 M-0.02 DIFFUSER TAKE-OFF
N.T.S.



NOTE:
CURVED DIFFUSERS MOUNTED TO SPIRAL ACCEPTABLE ALTERNATIVE.

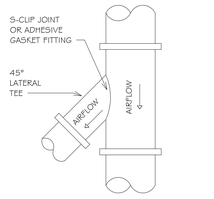
3 M-0.02 EXPOSED DIFFUSER
N.T.S.



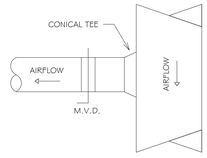
KEY NOTES:

1. SUPPLY AIR DISCHARGE. PROVIDE FLEXIBLE CONNECTION AND TRANSITION TO SUPPLY AIR DUCT SIZE SHOWN ON FLOOR PLANS.
2. RETURN AIR PLENUM FULL SIZE OF RETURN AIR OPENING. SEE FLOOR PLAN(S) FOR DUCT CONNECTIONS.

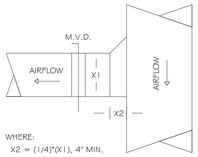
4 M-0.02 HORIZONTAL FAN COIL UNIT
N.T.S.



ROUND - ROUND



RECTANGULAR - ROUND



WHERE:
X2 = (1/4)*(X1), 4" MIN.

RECTANGULAR - RECTANGULAR

5 M-0.02 DUCTWORK
N.T.S.

LEGEND

SYMBOLS	DESCRIPTION
X1 / X2	DIFFUSER, GRILLE, REGISTER OR LOUVER TAG X1 = TYPE, X2 = CFM
	POSITIVE PRESSURE (AIR GOES OUT) DIFFUSER OR REGISTER, 4-WAY AIR PATTERN (UNLESS OTHERWISE NOTED)
	NEGATIVE PRESSURE (AIR GOES IN) GRILLE
—→	POSITIVE PRESSURE AIRFLOW (TYP. SUPPLY)
—←•	NEGATIVE PRESSURE AIRFLOW (TYP. RETURN/EXHAUST)
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER (MVD)
FD	VERTICAL (TYP. WALL) FIRE DAMPER
FSD	VERTICAL (TYP. WALL) COMBINATION FIRE/SMOKE DAMPER
FD	HORIZONTAL (TYP. FLOOR/CEILING) FIRE DAMPER
FSD	HORIZONTAL (TYP. FLOOR/CEILING) COMBINATION FIRE/SMOKE DAMPER
T	THERMOSTAT
H	HUMIDISTAT
	INTERNALLY LINED DUCT
	DUCT UP
	DUCT UP
	DUCT DN
	SUPPLY DUCT
UNIT #	EQUIPMENT TYPE EQUIPMENT NUMBER. WHERE A LETTER IS USED, THERE ARE MULTIPLE INSTANCES.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	MAU	MAKE-UP AIR UNIT
AHU	AIR HANDLING UNIT	MAV	MANUAL AIR VENT
CO2	CARBON DIOXIDE	MBH	1,000 BTU PER HOUR
D	CONDENSATE DRAIN	MFCU	MINI FAN COIL UNIT
DB	DRY BULB	MHP	MINI HEAT PUMP
EA	EXHAUST AIR	MVD	MANUAL VOLUME DAMPER
EDH	ELECTRIC DUCT HEATER	NC	NORMALLY CLOSED
EF	EXHAUST FAN	NO	NORMALLY OPEN
ESP	EXTERNAL STATIC PRESSURE	OA	OUTSIDE AIR
EWH	ELECTRIC WALL HEATER	OBD	OPPOSED BLADE DAMPER
F	DEGREES FAHRENHEIT	PDU	POOL DEHUMIDIFYING UNIT
FCU	FAN COIL UNIT	PIU	POWER INDUCTION UNIT
FD	FIRE DAMPER	RA	RETURN AIR
FSD	COMB. FIRE/SMOKE DAMPER	RH	RELIEF HOOD
H	HUMIDISTAT	RTU	ROOFTOP UNIT
IH	INTAKE HOOD	SA	SUPPLY AIR
LAT	LEAVING AIR TEMPERATURE	SP	STATIC PRESSURE
LWT	LEAVING WATER TEMPERATURE	UC	UNDER CUT DOOR
M	MOTOR	VAV	VARIABLE AIR VOLUME
MA	MAKE-UP AIR	WB	WET BULB

DATE	RELEASE
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: AS
DRAWN BY: AS

PROFICIENT
ENGINEERING
Peachtree Corners, Georgia 30092
404.330.9798
PROJECT # 120115

DRAWINGS FOR:
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GEORGIA
REGISTERED
No. PE045247
PROFESSIONAL
ENGINEER
ANDREW SMITH

PROJECT #: 01914-A

DETAILS

M-0.02

FAN SCHEDULE

MARK	DUTY	TYPE	CFM	E.S.P. (IN WG)	MOTOR (W / hp)	DRIVE	MAX. NOISE (SONES)	CONTROL BY	BASIS OF DESIGN MODEL	REMARKS 1	2	3	4	5	6
EF-A	EXHAUST	CEILING CABINET	70	0.5	100	DIRECT	2.0	SWITCHED WITH LIGHTS	GREENHECK SP	X	X	X			
EF-1	EXHAUST	IN-LINE CENTRIFUGAL	1200	0.75	3/4	DIRECT	21.0	SWITCHED WITH LIGHTS	GREENHECK SQ	X	X	X			
EF-2	EXHAUST	IN-LINE CENTRIFUGAL	700	---	1/2	DIRECT	---	PRESSURE SENSING SWITCH	TJERNLUND CDB8		X		X	X	X

NOTES (APPLY TO ALL):

A. SEE ELECTRICAL PLANS FOR POWER CHARACTERISTICS
B. DESIGN IS BASED ON PRODUCTS BY GREENHECK OR TJERNLUND. ACCEPTABLE ALTERNATES SHALL BE BY LOREN-COOK, TWIN-CITY, PENN BARRY.

REMARKS (APPLY AS SCHEDULED):

1. FAN SPEED CONTROLLER.
2. FACTORY DISCONNECT SWITCH/PLUG.
3. GRAVITY BACKDRAFT DAMPER.
4. HORIZONTAL MOUNTING AND INLINE KIT.
5. PRESSURE SENSING SWITCH KIT TO ENERGIZE FAN ON DETECTION OF LAUNDRY DRYER OPERATION.
6. CONSTANT OPERATING PRESSURE CONTROLLER TO VARY FAN SPEED TO MAINTAIN PRESSURE SETPOINT.

ELECTRIC DUCT HEATER

MARK	SERVES	CFM	BASIS OF DESIGN STAGES	KW (@ 208V / 3PH)	HEAT (MBH)	MODEL	NOTES 1	2	3	4	5	6
EDH-1	FCU-1	10,000	3	90.0	307.0	INDEECO MODEL 'QU'	X	X	X	X	X	X
EDH-2	FCU-8	10,000	3	90.0	307.0	INDEECO MODEL 'QU'	X	X	X	X	X	X

NOTES:

1. HEATER SHALL BE CONTROLLED BY FCU CONTROLLER AND PROGRAMMABLE THERMOSTAT.
2. COORDINATE ELECTRICAL CHARACTERISTICS WITH ELECTRICAL CONTRACTOR.
3. DIFFERENTIAL PRESSURE AIRFLOW SWITCH.
4. FACTORY DISCONNECT SWITCH WITH DOOR INTERLOCK.
5. AUTOMATIC AND MANUAL RESET THERMAL CUTOUTS.
6. CONTROL CIRCUIT TRANSFORMER.

ELECTRIC WALL HEATER

MARK	CFM	WATTS	HEAT (BTU/H)	BASIS OF DESIGN	REMARKS 1	2	3	4	5	6
EWH-1	100	1500	5120	QMARK AWH	X	X	X	X	X	X

REMARKS:

1. PROVIDE WITH INTEGRAL THERMOSTAT AT UNIT TO MAINTAIN MINIMUM 45 F (ADJUSTABLE).
2. COORDINATE ELECTRICAL CHARACTERISTICS WITH ELECTRICAL CONTRACTOR.
3. FAN DELAY SWITCH.
4. THERMAL CUTOUT.
5. FACTORY DISCONNECT SWITCH.
6. SURFACE MOUNTING KIT.

SPLIT DIRECT EXPANSION (DX) ELECTRIC HEAT EQUIPMENT

MARK	SERVES	INDOOR UNIT TOTAL S.A (CFM)	O.A (CFM)	E.S.P. (IN WG)	MOTOR (hp)	WEIGHT (LBS)	BASIS OF DESIGN	OUTDOOR UNIT MIN. EER	WEIGHT (LBS)	BASIS OF DESIGN	COMBINED COOLING CAPACITIES NOMINAL TONNAGE (TONS)	COOLING TOTAL (MBH)	SENS (MBH)	LAT (MBH)	Ent. Tdb (°F)	Ent. Twb (°F)	Lvg. Tdb (°F)	Lvg. Twb (°F)	REMARKS 1	2	3	4	5	6	7	8	9	10	11
FCU-1 / CU-1	LVL 1 FITNESS	10,000	2,400	1.00	7.5	1,390.0	40RUA028T	11.0	1,095.0	38APD025	25.0	298.7	223.4	75.3	79.5	66.6	58.0	56.6	X	X	X	X	X	X	X	X	X	X	X
FCU-8 / CU-8	LVL 2 GYM	10,000	2,400	1.00	7.5	1,390.0	40RUA028T	11.0	1,095.0	38APD025	25.0	298.7	223.4	75.3	79.5	66.6	58.0	56.6	X	X	X	X	X	X	X	X	X	X	X

NOTES (APPLY TO ALL):

A. SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
B. SUBMITTED UNIT CAPACITIES SHOULD BE WITHIN +/-10% OF SCHEDULED CAPACITIES.
C. BASIS OF DESIGN: CARRIER. REFER TO SPECIFICATIONS. ACCEPTABLE ALTERNATES: JCI/YORK, TRANE, DAIKIN/MCQUAY, LENNOX
D. ALL EVAPORATORS AND COOLING COILS LOCATED ABOVE THE LOWEST LEVEL FINISHED FLOOR SHALL BE INSTALLED WITH AN AUXILIARY CONDENSATE DRAIN PAN UNDER THE UNIT. PROVIDE AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUTDOWN THE UNIT OPON DETECTION OF WATER IN THE AUXILIARY DRAIN PAN.
E. AS AN ALTERNATIVE TO THE AUXILIARY CONDENSATE DRAIN PAN, AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUTDOWN THE UNIT UPON DETECTION OF WATER MAY BE INSTALLED IN THE PRIMARY DRAIN LINE, THE OVERFLOW DRAIN LINE OR THE EQUIPMENT SUPPLIED DRAIN PAN. THE WATER LEVEL DETECTOR SHALL BE LOCATED AT A POINT HIGHER THAN THE PRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM OF SUCH PAN.
F. PROVIDE LONG LINESET ACCESSORIES AS REQUIRED.

REMARKS (APPLY AS SCHEDULED):

1. PROGRAMMABLE UNIT CONTROLLER WITH THERMOSTAT.
2. LOW AMBIENT PACKAGE.
3. DISPOSABLE FILTER.
4. ANTI-SHORT CYCLE TIMER.
5. INDOOR FAN DELAY KIT.
6. DISCONNECT SWITCH PROVIDED BY THE ELECTRICAL SUBCONTRACTOR AT BOTH THE INDOOR AND OUTDOOR UNIT. REFER TO THE ELECTRICAL DOCUMENTS.
7. MOUNT OUTDOOR CONDENSING UNIT ON CONCRETE HOUSEKEEPING PAD. PAD SHALL BE A MINIMUM 4" THICK AND SHALL EXTEND 6" BEYOND UNIT ON ALL SIDES.
8. STAGED AIR VOLUME VFD, TWO SPEED FAN.
9. MULTI-STAGE COOLING.
10. FIELD PROVIDED AND FIELD INSTALLED SMOKE DETECTOR. SMOKE DETECTOR SHALL BE MOUNTED IN THE SUPPLY DUCT.
11. FACTORY ECONOMIZER ACCESSORY WITH ENTHALPY ECONOMIZER CONTROLS. SWAP RETURN AIR AND OUTSIDE AIR DAMPERS IN ECONOMIZER ACCESSORY SO THAT IN A HORIZONTAL INSTALLATION THE RETURN AIR OPENING IS FACING UP TO THE LEVEL ABOVE AND THE OUTSIDE AIR OPENING IS AT THE END OF THE UNIT.

SPLIT DIRECT EXPANSION (DX) HEAT PUMP EQUIPMENT

MARK	SERVES	INDOOR UNIT TOTAL S.A. (CFM)	O.A. (CFM)	E.S.P. (IN WG)	MOTOR (hp)	AUXILIARY HEATER (kW)	WEIGHT (LBS)	BASIS OF DESIGN	OUTDOOR UNIT MIN. SEER (*EER)	MIN. HSPF	WEIGHT (LBS)	BASIS OF DESIGN	COMBINED COOLING CAPACITIES NOMINAL TONNAGE (TONS)	COOLING TOTAL (MBH)	SENS (MBH)	LAT (MBH)	Ent. Tdb (°F)	Ent. Twb (°F)	Lvg. Tdb (°F)	Lvg. Twb (°F)	REMARKS 1	2	3	4	5	6	7	8	9	10	11	12
FCU-2 / HP-2	LVL 1 FUTURE TENANT	1,200	300	0.50	1/2 ECM	7.5	122.0	FB4CNP036	14.0	8.2	189.0	25HCE436	3.0	38.2	28.3	9.9	79.7	66.7	57.0	56.0	X	X	X	X	X	X	X					
FCU-3 / HP-3	LVL 1 FITNESS	1,200	295	0.50	1/2 ECM	7.5	122.0	FB4CNP036	14.0	8.2	189.0	25HCE436	3.0	38.0	28.2	9.8	79.6	66.7	57.0	56.0	X	X	X	X	X	X	X					
FCU-4 / HP-4	LVL 1 LOBBY	1,600	190	0.50	3/4 ECM	7.5	157.0	FB4CNP048	14.0	8.2	240.0	25HCE448	4.0	47.9	35.4	12.5	77.2	65.3	56.0	55.0	X	X	X	X	X	X	X					
FCU-5 / HP-5	LVL 1 LOCKERS	1,000	215	0.50	1/3 ECM	7.5	122.0	FB4CNP030	14.0	8.2	186.0	25HCE430	2.5	30.6	22.9	7.7	79.1	66.3	57.0	56.0	X	X	X	X	X	X	X					
FCU-6 / HP-6	LVL 2 CORE	800	100	0.50	1/3 ECM	3.8	112.0	FB4CNP030	14.0	8.2	160.0	25HCE424	2.0	26.2	18.7	7.6	77.4	65.4	55.0	54.0	X	X	X	X	X	X	X					

NOTES (APPLY TO ALL):

A. SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
B. SUBMITTED UNIT CAPACITIES SHOULD BE WITHIN +/-10% OF SCHEDULED CAPACITIES.
C. BASIS OF DESIGN: CARRIER. REFER TO SPECIFICATIONS. ACCEPTABLE ALTERNATES: JCI/YORK, TRANE, DAIKIN/MCQUAY, LENNOX
D. ALL EVAPORATORS AND COOLING COILS LOCATED ABOVE THE LOWEST LEVEL FINISHED FLOOR SHALL BE INSTALLED WITH AN AUXILIARY CONDENSATE DRAIN PAN UNDER THE UNIT. PROVIDE AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUTDOWN THE UNIT UPON DETECTION OF WATER IN THE AUXILIARY DRAIN PAN.
E. AS AN ALTERNATIVE TO THE AUXILIARY CONDENSATE DRAIN PAN, AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUTDOWN THE UNIT UPON DETECTION OF WATER MAY BE INSTALLED IN THE PRIMARY DRAIN LINE, THE OVERFLOW DRAIN LINE OR THE EQUIPMENT SUPPLIED DRAIN PAN. THE WATER LEVEL DETECTOR SHALL BE LOCATED AT A POINT HIGHER THAN THE PRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM OF SUCH PAN.
F. PROVIDE LONG LINESET ACCESSORIES AS REQUIRED.

REMARKS (APPLY AS SCHEDULED):

1. PROGRAMMABLE THERMOSTAT.
2. LOW AMBIENT PACKAGE
3. DISPOSABLE FILTER.
4. ANTI-SHORT CYCLE TIMER.
5. INDOOR FAN DELAY KIT.
6. DISCONNECT SWITCH PROVIDED BY ELECTRICAL SUBCONTRACTOR AT BOTH THE INDOOR AND OUTDOOR UNIT. REFER TO THE ELECTRICAL DOCUMENTS.
7. MOUNT OUTDOOR HEAT PUMP ON CONCRETE HOUSEKEEPING PAD. PAD SHALL BE A MINIMUM 4" THICK AND SHALL EXTEND 6" BEYOND UNIT ON ALL SIDES.

DUCTLESS SPLIT DIRECT EXPANSION (DX) EQUIPMENT

INDOOR UNIT MARK	SERVES	TYPE	MODEL/SERIES	NOMINAL TONS / MIN. SEER	CFM	OUTDOOR UNIT MARK	MIN. SEER	MIN. HSPF	MODEL/SERIES	MAX. PIPING LENGTH (FT)	MAX. PIPING HEIGHT (FT)	COMBINED CAPACITIES COOLING TOTAL (MBH)	HEATING @ 47°F (MBH)
MFCU-1	ELEV MACHINE ROOM	WALL-MOUNTED, HEAT PUMP	FAQ24TAVJU	2	635 / 470	MHP-1	17.6	8.4	RZQ24TAVJU	164.0	98.0	24.0	18.0

NOTES (APPLY TO ALL):

A. BASIS OF DESIGN: DAIKIN. EQUAL PRODUCTS: MITSUBISHI, LENNOX, SAMSUNG, LG, SANYO, CARRIER, JCI/YORK.
B. SINGLE POWER CONNECTION AT OUTDOOR UNIT. DISCONNECT SWITCHES PROVIDED AT THE INDOOR AND OUTDOOR UNITS BY ELECTRICAL SUBCONTRACTOR. REFER TO THE ELECTRICAL DOCUMENTS.
C. R-410A REFRIGERANT.
D. FACTORY CONDENSATE PUMP OR CONDENSATE LIFT MECHANISM.
E. WALL MOUNTED WIRED REMOTE CONTROLLER.
F. INVERTER DRIVEN COMPRESSOR.
G. MOUNT MHP ON CONCRETE HOUSEKEEPING PAD. PHALL BE A MINIUM 4" THICK AND SHALL EXTEND 6" BEYOND UNIT ON ALL SIDES.
H. REFRIGERANT LINE SET TOTAL EQUIVALENT LENGTH SHALL NOT EXCEED LENGTH SHOWN ON SCHEDULE. SHOULD AN ALTERNATE MANUFACTURER BE USED, CONTRACTOR SHALL COMPLY WITH ALTERNATE MANUFACTURER LINE SET LIMITATIONS.
I. WIND BAFFLE ACCESSORY.

LOUVERS

SYMBOL	MODEL/ SERIES	SERVES	SIZE WxH (IN)	MIN FREE AREA (SQ FT)	CFM	MAX PRESS. DROP (IN WC)	OPERATOR	INTERLOCK	FRAME	REMARKS 1	2	3	4	5
WL-A	ESD-635	FCU-1 RELIEF	192x20	11.7	5,000	0.05	N/A	N/A	ALUMINUM	X	X	X		
WL-B	ESD-635	FCU-8 RELIEF	88x20	5.4	3,000	0.05	N/A	N/A	ALUMINUM	X	X	X		
WL-C	ESD-635	FCU-7 RELIEF	88x20	5.4	2,000	0.05	N/A	N/A	ALUMINUM	X	X	X		
WL-4	ESD-635	FCU-1 OA	88x20	5.4	5,000	0.15	N/A	N/A	ALUMINUM	X	X	X		
WL-5	ESD-635	FCU-1 OA	88x20	5.4	5,000	0.15	N/A	N/A	ALUMINUM	X	X	X		
WL-6	ESD-635	FCU-2, 3, 4, 5 OA	88x20	5.4	1,005	0.05	N/A	N/A	ALUMINUM	X	X	X		
WL-7	ESD-635	FCU-8 OA	88x20	5.4	5,000	0.15	N/A	N/A	ALUMINUM	X	X	X		
WL-8	ESD-635	FCU-8 OA	88x20	5.4	5,000	0.15	N/A	N/A	ALUMINUM	X	X	X		
WL-9	ESD-635	FCU-7 OA	88x20	5.4	4,000	0.1	N/A	N/A	ALUMINUM	X	X	X		
WL-10	ESD-635	EF-1 EXH	28x20	1.6	1,200	0.1	N/A	N/A	ALUMINUM	X	X	X		
WL-11	ESD-635	UNUSED	88x20	---	---	---	N/A	N/A	ALUMINUM	X	X		X	

NOTES (APPLY TO ALL):

A. FINAL COLOR SELECTION SHALL BE MADE BY ARCHITECT AT TIME OF SHOP DRAWING APPROVAL. PROVIDE COLOR/FINISH CHARTS AS PART OF SUBMITTAL.
B. DESIGN IS BASED ON PRODUCTS BY GREENHECK. ACCEPTABLE ALTERNATES SHALL BE BY UNITED ENERTECH, ARROW, RUSKIN.
C. WALL LOUVER, WL-A, COMES IN TWO SECTIONS.

REMARKS (APPLY AS SCHEDULED):

1. BIRD SCREEN
2. BAKED ON ENAMEL FINISH.
3. GRAVITY BACKDRAFT DAMPER WITH COUNTER BALANCE.
4. LOUVER UNUSED AND FOR APPEARANCE. BLANK OFF AND INSULATE LOUVER.

DATE	RELEASE
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: AS
DRAWN BY: AS

PROFICIENT ENGINEERING
Peachtree Corners, Georgia 30092
404.330.9798
PROJECT # 120115

DRAWINGS FOR:
Owner
309 East Paces Ferry Road
Suite 825
Atlanta, GA 30305

THE FORUM ATHLETIC CLUB

AKA STUDIO, PC
Architects & Interiors
74 WOODSTOCK ROAD,
ROSWELL, GA. 30075
(770) 642-9030 info@akastudiopc.com

GEORGIA REGISTERED Andrew Smith No. PE045247 PROFESSIONAL ENGINEER ANDREW SMITH

PROJECT #: 01914-A

SCHEDULES

M-0.03

VENTILATION SCHEDULE (PER ASHRAE 62.1)

Zone FCU/CU-1 - LVL 1 - FITNESS Ventilation

System Primary Airflow:	10,000 CFM	Average Outdoor Air Fraction:	0.237	Occupant Diversity:	1	Zone Air Distribution Effectiveness:	0.8	Primary Air Fraction to Zone:	1	Secondary Air Fraction to Zone:	1
Vps		Xs		D		Ez		Ep		Er	
Uncorrected Air Intake:	2,370 CFM	System Ventilation Efficiency:	1	Min. Outside Air Required:	2,370 CFM	Fraction of Supply Air to Zone from Outside Zone:	1	Fraction of Supply Air to Zone from Fully Mixed Primary Air:	1	Fraction of Outdoor Air to Zone from Outside Zone:	1
Vou		Ev		Vot	0.237	Fa		Fb		Fc	

Room Information

Room	Room Type	People Outdoor Air			Area Outdoor Air			Breathing Zone Outside Airflow	Zone Outdoor Airflow	Zone Discharge Airflow	Discharge Outdoor Air Fraction	Zone Ventilation Efficiency
		Rate (CFM/person) Rp	People Pz	Total (CFM) Rp*Pz	Rate (CFM/ft2) Ra	Area (ft2) Az	Total (CFM) Ra*Az	(CFM) Vbz	(CFM) Voz	(CFM) Vdz	Zd	Evz
LEVEL 1 GYM	Gym-Weights	20	75	1500	0.06	6570	395	1900	2370	10000	0.237	1

VENTILATION SCHEDULE (PER ASHRAE 62.1)

Zone FCU/HP-2, 3 - LVL 1 - FUTURE TENANT Ventilation

System Primary Airflow:	2,400 CFM	Average Outdoor Air Fraction:	0.235	Occupant Diversity:	1	Zone Air Distribution Effectiveness:	0.8	Primary Air Fraction to Zone:	1	Secondary Air Fraction to Zone:	1
Vps		Xs		D		Ez		Ep		Er	
Uncorrected Air Intake:	565 CFM	System Ventilation Efficiency:	0.972	Min. Outside Air Required:	581 CFM	Fraction of Supply Air to Zone from Outside Zone:	1	Fraction of Supply Air to Zone from Fully Mixed Primary Air:	1	Fraction of Outdoor Air to Zone from Outside Zone:	1
Vou		Ev		Vot	0.242	Fa		Fb		Fc	

Room Information

Room	Room Type	People Outdoor Air			Area Outdoor Air			Breathing Zone Outside Airflow	Zone Outdoor Airflow	Zone Discharge Airflow	Discharge Outdoor Air Fraction	Zone Ventilation Efficiency
		Rate (CFM/person) Rp	People Pz	Total (CFM) Rp*Pz	Rate (CFM/ft2) Ra	Area (ft2) Az	Total (CFM) Ra*Az	(CFM) Vbz	(CFM) Voz	(CFM) Vdz	Zd	Evz
6 SPIN	Gym-Weights	20	9	180	0.06	754	46	226	283	855	0.331	0.972
7 CHAOS	Gym-Weights	20	9	180	0.06	761	46	226	283	1,550	0.183	1.06

VENTILATION SCHEDULE (PER ASHRAE 62.1)

Zone FCU/HP-4 - LVL 1 - LOBBY Ventilation

System Primary Airflow:	1,600 CFM	Average Outdoor Air Fraction:	0.107	Occupant Diversity:	1	Zone Air Distribution Effectiveness:	0.8	Primary Air Fraction to Zone:	1	Secondary Air Fraction to Zone:	1
Vps		Xs		D		Ez		Ep		Er	
Uncorrected Air Intake:	171 CFM	System Ventilation Efficiency:	0.939	Min. Outside Air Required:	182 CFM	Fraction of Supply Air to Zone from Outside Zone:	1	Fraction of Supply Air to Zone from Fully Mixed Primary Air:	1	Fraction of Outdoor Air to Zone from Outside Zone:	1
Vou		Ev		Vot	0.114	Fa		Fb		Fc	

Room Information

Room	Room Type	People Outdoor Air			Area Outdoor Air			Breathing Zone Outside Airflow	Zone Outdoor Airflow	Zone Discharge Airflow	Discharge Outdoor Air Fraction	Zone Ventilation Efficiency
		Rate (CFM/person) Rp	People Pz	Total (CFM) Rp*Pz	Rate (CFM/ft2) Ra	Area (ft2) Az	Total (CFM) Ra*Az	(CFM) Vbz	(CFM) Voz	(CFM) Vdz	Zd	Evz
DOUBLE HEIGHT LOBBY	Office-Main Entry Lobbies	5	5	25	0.06	471	29	54	68	967	0.0703	1.04
LOBBY	Office-Main Entry Lobbies	5	8	40	0.06	717	43	83	104	633	0.164	0.939

VENTILATION SCHEDULE (PER ASHRAE 62.1)

Zone FCU/HP-5 - LVL 1 - LOCKERS Ventilation

System Primary Airflow:	1,000 CFM	Average Outdoor Air Fraction:	0.208	Occupant Diversity:	1	Zone Air Distribution Effectiveness:	0.8	Primary Air Fraction to Zone:	1	Secondary Air Fraction to Zone:	1
Vps		Xs		D		Ez		Ep		Er	
Uncorrected Air Intake:	208 CFM	System Ventilation Efficiency:	0.971	Min. Outside Air Required:	214 CFM	Fraction of Supply Air to Zone from Outside Zone:	1	Fraction of Supply Air to Zone from Fully Mixed Primary Air:	1	Fraction of Outdoor Air to Zone from Outside Zone:	1
Vou		Ev		Vot	0.214	Fa		Fb		Fc	

Room Information

Room	Room Type	People Outdoor Air			Area Outdoor Air			Breathing Zone Outside Airflow	Zone Outdoor Airflow	Zone Discharge Airflow	Discharge Outdoor Air Fraction	Zone Ventilation Efficiency
		Rate (CFM/person) Rp	People Pz	Total (CFM) Rp*Pz	Rate (CFM/ft2) Ra	Area (ft2) Az	Total (CFM) Ra*Az	(CFM) Vbz	(CFM) Voz	(CFM) Vdz	Zd	Evz
2 WOMENS LOCKER RM	Gym-Locker Room	5	7	35	0.06	691	42	77	96	440	0.218	0.996
3 MENS LOCKER RM	Gym-Locker Room	5	6	30	0.06	550	34	64	80	400	0.2	1.01
LAUNDRY	Laundry	25	1	25	0	153	0	25	31	115	0.27	0.971
MENS CORRIDOR	General-Corridors	0	0	0	0	176	0	0	0	22	0	1.21
WOMENS CORRIDOR	General-Corridors	0	0	0	0	177	0	0	0	23	0	1.21

VENTILATION SCHEDULE (PER ASHRAE 62.1)

Zone FCU/HP-6 - LVL 2 - CORE Ventilation

System Primary Airflow:	800 CFM	Average Outdoor Air Fraction:	0.0859	Occupant Diversity:	1	Zone Air Distribution Effectiveness:	0.8	Primary Air Fraction to Zone:	1	Secondary Air Fraction to Zone:	1
Vps		Xs		D		Ez		Ep		Er	
Uncorrected Air Intake:	69 CFM	System Ventilation Efficiency:	0.779	Min. Outside Air Required:	88 CFM	Fraction of Supply Air to Zone from Outside Zone:	1	Fraction of Supply Air to Zone from Fully Mixed Primary Air:	1	Fraction of Outdoor Air to Zone from Outside Zone:	1
Vou		Ev		Vot	0.11	Fa		Fb		Fc	

Room Information

Room	Room Type	People Outdoor Air			Area Outdoor Air			Breathing Zone Outside Airflow	Zone Outdoor Airflow	Zone Discharge Airflow	Discharge Outdoor Air Fraction	Zone Ventilation Efficiency
		Rate (CFM/person) Rp	People Pz	Total (CFM) Rp*Pz	Rate (CFM/ft2) Ra	Area (ft2) Az	Total (CFM) Ra*Az	(CFM) Vbz	(CFM) Voz	(CFM) Vdz	Zd	Evz
16 REST ROOM	General-Restroom	0	0	0	0	69.5	0	0	0	42	0	1.11
BREAK ROOM	General-BreakRoom	5	1	5	0.06	128	8	13	16	244	0.0656	1.04
OFFICE	Office-Office	5	2	10	0.06	161	10	20	25	294	0.085	1.02
RESTROOM 2	General-Restroom	0	0	0	0	69.5	0	0	0	42	0	1.11
STORAGE 1	General-Storage-Unoccupied	0	0	0	0	94.7	0	0	0	42	0	1.11
STORAGE 2	General-Storage-Unoccupied	0	0	0	0	180	0	0	0	42	0	1.11
UPPER CORRIDOR	General-Corridors	0	0	0	0.06	358	22	22	28	96	0.292	0.779

VENTILATION SCHEDULE (PER ASHRAE 62.1)

Zone FCU/HP-7 - LVL 2 - FAST TWITCH Ventilation

System Primary Airflow:	4,000 CFM	Average Outdoor Air Fraction:	0.243	Occupant Diversity:	1	Zone Air Distribution Effectiveness:	0.8	Primary Air Fraction to Zone:	1	Secondary Air Fraction to Zone:	1
Vps		Xs		D		Ez		Ep		Er	
Uncorrected Air Intake:	973 CFM	System Ventilation Efficiency:	1	Min. Outside Air Required:	972 CFM	Fraction of Supply Air to Zone from Outside Zone:	1	Fraction of Supply Air to Zone from Fully Mixed Primary Air:	1	Fraction of Outdoor Air to Zone from Outside Zone:	1
Vou		Ev		Vot	0.243	Fa		Fb		Fc	

Room Information

Room	Room Type	People Outdoor Air			Area Outdoor Air			Breathing Zone Outside Airflow	Zone Outdoor Airflow	Zone Discharge Airflow	Discharge Outdoor Air Fraction	Zone Ventilation Efficiency
		Rate (CFM/person) Rp	People Pz	Total (CFM) Rp*Pz	Rate (CFM/ft2) Ra	Area (ft2) Az	Total (CFM) Ra*Az	(CFM) Vbz	(CFM) Voz	(CFM) Vdz	Zd	Evz
FAST TWITCH	Gym-Circuit Training	20	30	600	0.06	2960	178	778	973	4000	0.243	1

VENTILATION SCHEDULE (PER ASHRAE 62.1)

Zone FCU/CU-8 - LVL 2 - GYM Ventilation

System Primary Airflow:	10,000 CFM	Average Outdoor Air Fraction:	0.238	Occupant Diversity:	1	Zone Air Distribution Effectiveness:	0.8	Primary Air Fraction to Zone:	1	Secondary Air Fraction to Zone:	1
Vps		Xs		D		Ez		Ep		Er	
Uncorrected Air Intake:	2,380 CFM	System Ventilation Efficiency:	1	Min. Outside Air Required:	2,380 CFM	Fraction of Supply Air to Zone from Outside Zone:	1	Fraction of Supply Air to Zone from Fully Mixed Primary Air:	1	Fraction of Outdoor Air to Zone from Outside Zone:	1
Vou		Ev		Vot	0.238	Fa		Fb		Fc	

Room Information

Room	Room Type	People Outdoor Air			Area Outdoor Air			Breathing Zone Outside Airflow	Zone Outdoor Airflow	Zone Discharge Airflow	Discharge Outdoor Air Fraction	Zone Ventilation Efficiency
		Rate (CFM/person) Rp	People Pz	Total (CFM) Rp*Pz	Rate (CFM/ft2) Ra	Area (ft2) Az	Total (CFM) Ra*Az	(CFM) Vbz	(CFM) Voz	(CFM) Vdz	Zd	Evz
HALL	General-Corridors	0	0	0	0.06	108	7	7	9	40	0.225	1.01
LEVEL 2 GYM	Gym-Weights	20	75	1500	0.06	6660	400	1900	2380	9,960	0.238	1

DIFFUSER, GRILLE AND REGISTER SCHEDULE

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	NOISE CRITERIA AT MAX CFM	MODEL
EC0606	EGGCRATE GRILLE	6x6	6x6	25	TITUS 50F
EC1206	EGGCRATE GRILLE	12x6	12x6	25	TITUS 50F
RC2424	EGGCRATE GRILLE	24x24	24x24	25	TITUS 50F
RS1206	EGGCRATE GRILLE	12x6	12x6	25	TITUS 50F
RS1212	EGGCRATE GRILLE	12x12	12x12	25	TITUS 50F
RS1818	EGGCRATE GRILLE	18x18	18x18	25	TITUS 50F
SC0804	DOUBLE DEFLECTION SUPPLY	10x6	8x4	25	TITUS 300FS
SC1206	DOUBLE DEFLECTION SUPPLY	14x8	12x6	25	TITUS 300FS
SC1806	DOUBLE DEFLECTION SUPPLY	20x8	18x6	25	TITUS 300FS
SCP06	PLAQUE SUPPLY	24x24	6Ø	25	TITUS OMNI
SCP08	PLAQUE SUPPLY	24x24	8Ø	25	TITUS OMNI
SR08	SUPPLY ROUND CEILING	15Ø	8Ø	25	TITUS TMR-AA
SR10	SUPPLY ROUND CEILING	18Ø	10Ø	25	TITUS TMR-AA
SR12	SUPPLY ROUND CEILING	22Ø	12Ø	25	TITUS TMR-AA
SS0804	DOUBLE DEFLECTION SUPPLY	10x6	8x4	25	TITUS 300FS
SS1806	DOUBLE DEFLECTION SUPPLY	20x8	18x6	25	TITUS 300FS

A. AIR DEVICE (I.E. DIFFUSERS, REGISTERS AND GRILLES) COLOR SELECTION SHALL BE MADE BY ARCHITECT. CONTRACTOR SHALL SUBMIT COLOR/FINISH CHARTS FOR ARCHITECTURAL REVIEW AND SELECTION.
B. THE CONTRACTOR SHALL COORDINATE AIR DEVICE FRAME AND/OR SUSPENSION TYPE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.

DATE	RELEASE
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: AS
DRAWN BY: AS

PROFICIENT ENGINEERING
Peachtree Corners, Georgia 30092
404.330.9798
PROJECT # 120115

DRAWINGS FOR:
Owner
309 East Paces Ferry Road
Suite 825
Atlanta, GA 30305

THE FORUM ATHLETIC CLUB

AKA STUDIO, PC
Architects & Interiors
74 WOODSTOCK ROAD,
ROSWELL, GA. 30075
(770) 642-9030 info@akastudiopc.com

GEORGIA REGISTERED No. PE045247 PROFESSIONAL ENGINEER ANDREW SMITH

PROJECT # 01914-A

SCHEDULES

M-0.04

GENERAL NOTES

A. EACH SUPPLY, RETURN AND OUTSIDE AIR REGISTER RUNOUT SHALL BE PROVIDED WITH A MANUAL VOLUME DAMPER. REFER TO THE DIFFUSER TAKE-OFF DETAIL FOR ADDITIONAL INFORMATION.

B. DRAWINGS ARE DIAGRAMMATIC ONLY; FINAL ROUTING OF DUCTWORK AND EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC. SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO THE OWNER.

C. REFRIGERANT LINES EXPOSED TO THE ELEMENTS SHALL BE PROTECTED WITH A PVC JACKET. REFRIGERANT LINES WILL BE KEPT OFF GRADE WITH STANDS.

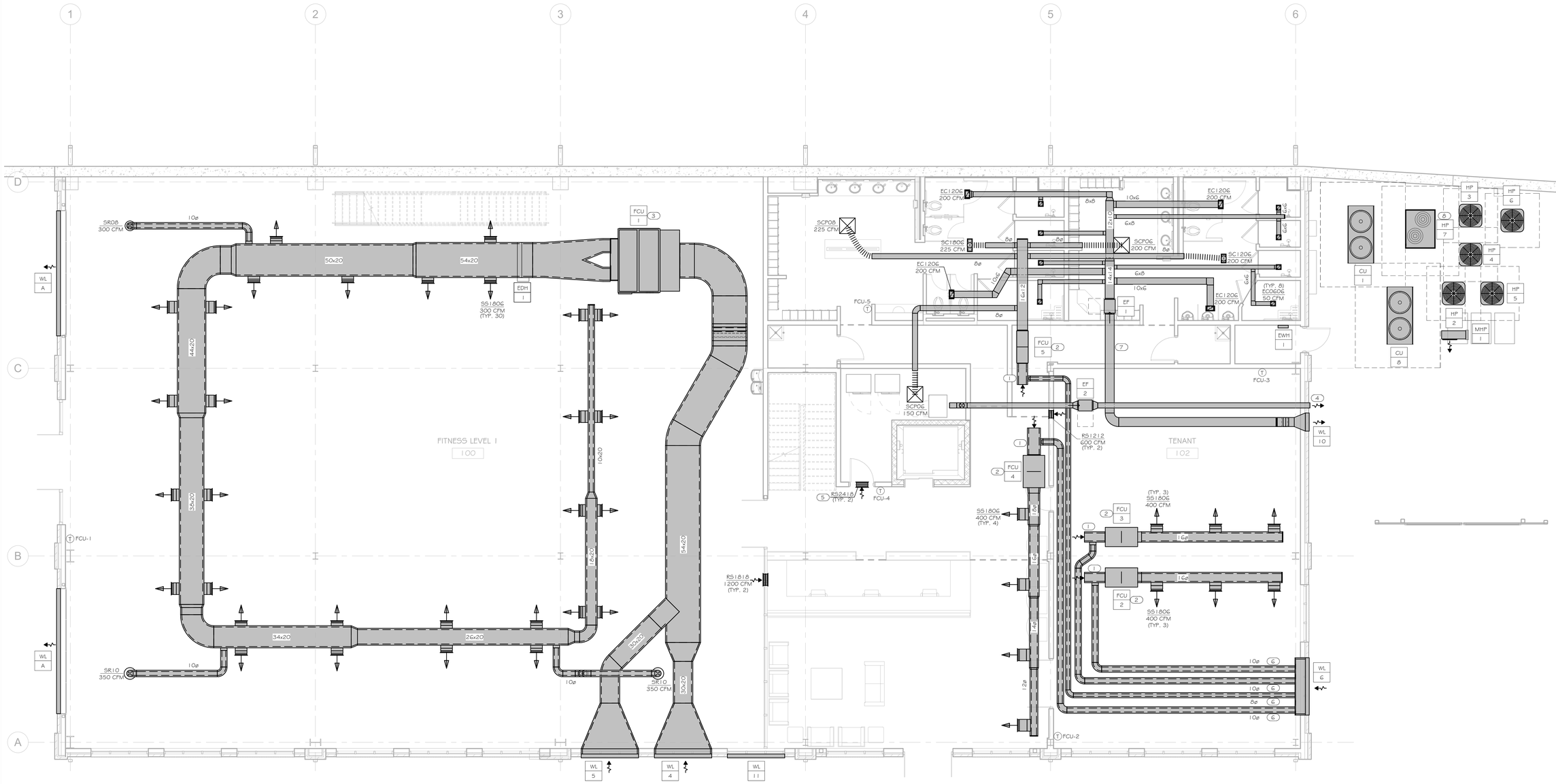
D. LAUNDRY DRYER EXHAUST DUCT VENT PIPE SHALL BE SHEET METAL AND HAVE A SMOOTH INTERIOR FINISH AND SHALL BE SUPPORTED AND SECURED IN PLACE WITH NO PENETRATIONS OF THE DUCTWORK. THE MALE END OF THE DUCT AT OVERLAPPED DUCT JOINTS SHALL EXTEND IN THE DIRECTION OF AIRFLOW. CLEAN-OUT OF THE DRYER VENT EXHAUST SYSTEM CAN BE ACCOMPLISHED BY REMOVING THE FLEXIBLE CONNECTOR AND REMOVING ANY EXCESS DRYER LINT. THE ENTIRE DRYER EXHAUST SYSTEM SHALL BE IN ACCORDANCE WITH THE LATEST LOCAL MECHANICAL CODES, AMMENDMENTS AND MANUFACTURERS REQUIREMENTS.

E. THERMOSTATS LOCATED ON EXTERIOR WALLS SHALL BE MOUNTED ON INSULATED BACKPLATES.

F. PROVIDE SUPPORTS FOR DUCTS GREATER THAN 4 ASPECT RATIO.

KEYNOTES

1. LINED RETURN AIR PLENUM WITH WIRE MESH SCREEN AT END.
2. FAN COIL UNIT SHALL BE PROVIDED WITH FRACTIONAL HORSEPOWER CONDENSATE PUMP. TRAP AND PUMP 1" DIA. CONDENSATE DRAIN LINE TO ONE OF TWO AREA DRAINS NEAR BUILDING, PROVIDED BY CIVIL, IN THE UTILITY YARD.
3. FAN COIL UNIT SHALL BE PROVIDED WITH FRACTIONAL HORSEPOWER CONDENSATE PUMP. TRAP AND PUMP 1-1/4" DIA. CONDENSATE DRAIN LINE TO ONE OF TWO AREA DRAINS NEAR BUILDING, PROVIDED BY CIVIL, IN THE UTILITY YARD.
4. 8" DIA. LAUNDRY DRYER EXHAUST DUCT ROUTED TO WALL CAP WITH INTEGRAL BACKDRAFT DAMPER. WALL CAP COLOR AND FINISH SHALL BE SELECTED BY ARCHITECT.
5. SIDEWALL RETURN AIR GRILLES LOCATED ABOVE DOOR AND BELOW CEILING.
6. ROUTE OUTSIDE AIR BRANCH DUCT FROM LOUVER AND TIE INTO RETURN OF FAN COIL UNIT. BALANCE TO OUTSIDE AIR CFM IN SPLIT SYSTEM SCHEDULE.
7. LOCKER ROOM EXHAUST DUCT SHALL BE ALUMINUM CONSTRUCTION.
8. OWNER SHALL PROVIDE INDOOR AND OUTDOOR UNIT, FCU/HP-7, TO THE CONTRACTOR TO INSTALL. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF THE SYSTEM AS SHOWN IN THE DESIGN DOCUMENTS. CONTRACTOR SHALL ALSO PURCHASE LOW AMBIENT PACKAGE, UNIT CONTROLLER, PROGRAMMABLE THERMOSTAT AND ECONOMIZER ATTACHMENT ACCESSORIES AND INSTALL IN THE FIELD. ECONOMIZER ACCESSORY SHALL BE MODIFIED IN THE SAME MANNER AS NOTED IN REMARK 11 OF THE SCHEDULE FOR FCU/CU-1 & 8. CONTRACTOR SHALL ALSO PURCHASE AND INSTALL RAWAL DEVICE, MODEL NUMBER APR-2.5, FOR PART LOAD CONTROL. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL DUCT SMOKE DETECTOR IN SUPPLY.



1 1ST FLOOR PLAN - MECHANICAL
M-1.0 3/16" = 1'-0"

DATE	RELEASE
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: AS
DRAWN BY: AS

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GEORGIA
REGISTERED
No. PE045247
PROFESSIONAL
ENGINEER
ANDREW SMITH

PROJECT #: 01814-A

1ST FLOOR PLAN

M-1.01

GENERAL NOTES

A. EACH SUPPLY, RETURN AND OUTSIDE AIR REGISTER RUNOUT SHALL BE PROVIDED WITH A MANUAL VOLUME DAMPER. REFER TO THE DIFFUSER TAKE-OFF DETAIL FOR ADDITIONAL INFORMATION.

B. DRAWINGS ARE DIAGRAMMATIC ONLY; FINAL ROUTING OF DUCTWORK AND EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC. SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO THE OWNER.

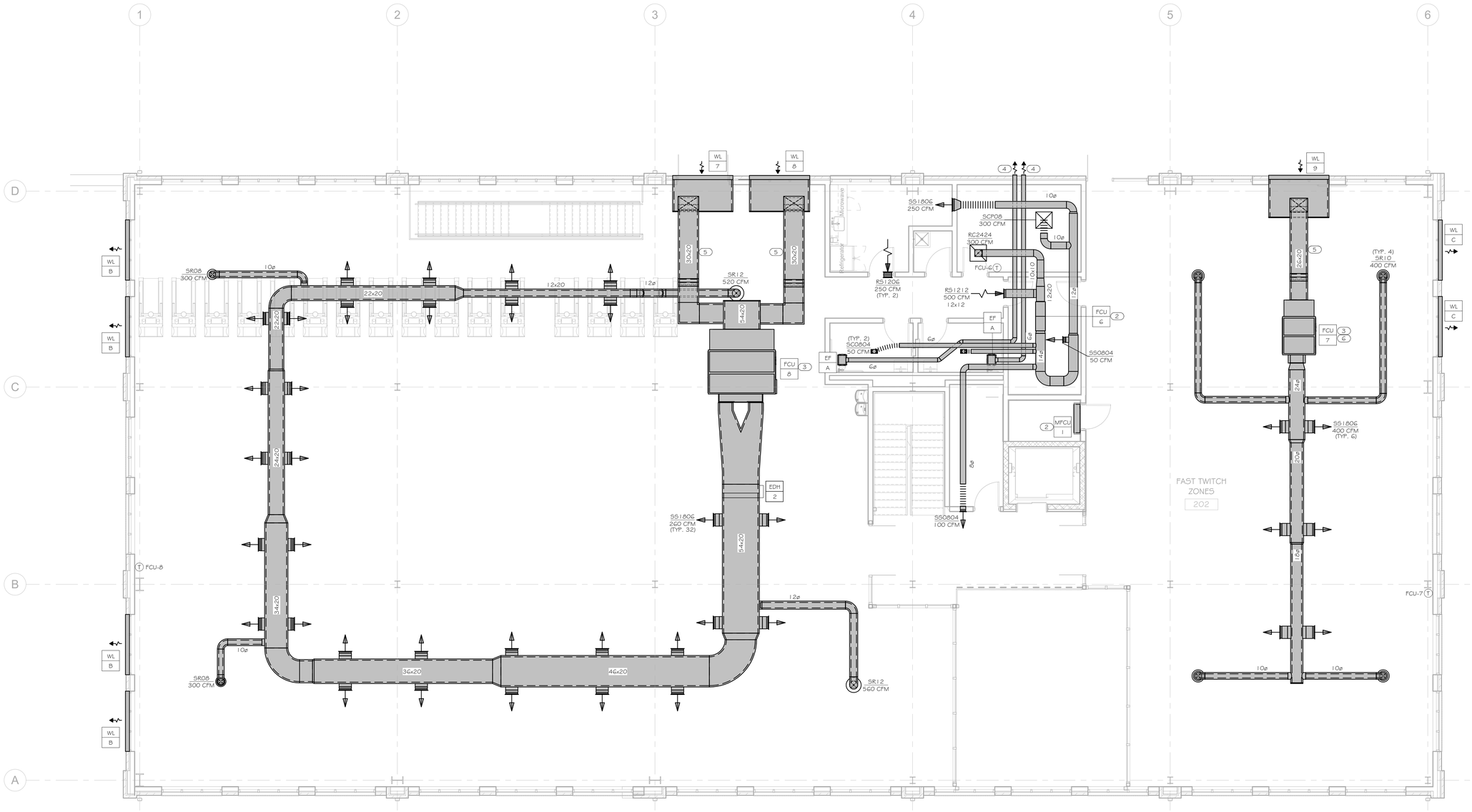
C. FAN COIL UNITS AND DUCTWORK ON LEVEL 2 IN EXPOSED CEILING GYM AREAS SHALL BE KEPT A MINIMUM OF 18FT AFF EXCEPT WHERE CONNECTING TO WALL LOUVERS.

D. THERMOSTATS LOCATED ON EXTERIOR WALLS SHALL BE MOUNTED ON INSULATED BACKPLATES.

E. PROVIDE SUPPORTS FOR DUCTS GREATER THAN 4 ASPECT RATIO.

KEYNOTES

1. LINED RETURN AIR PLENUM WITH WIRE MESH SCREEN AT END.
2. FAN COIL UNIT SHALL BE PROVIDED WITH FRACTIONAL HORSEPOWER CONDENSATE PUMP. TRAP AND PUMP 1" DIA. CONDENSATE DRAIN LINE TO AREA DRAIN LOCATED ON PLAN NORTH SIDE OF BUILDING, REFER TO PLUMBING.
3. FAN COIL UNIT SHALL BE PROVIDED WITH FRACTIONAL HORSEPOWER CONDENSATE PUMP. TRAP AND PUMP 1-1/4" DIA. CONDENSATE DRAIN LINE TO AREA DRAIN LOCATED ON PLAN NORTH SIDE OF BUILDING, REFER TO PLUMBING.
4. BATHROOM EXHAUST DUCTWORK ROUTED TO WALL CAP. WALL CAP COLOR AND FINISH SHALL BE SELECTED BY ARCHITECT.
5. DUCT ROUTES UP ALONG UNDERSIDE OF ROOF UP TO REACH FAN COIL UNIT MOUNTED AT MINIMUM 18FT AFF.
6. OWNER SHALL PROVIDE INDOOR AND OUTDOOR UNIT, FCU/HP-7, TO THE CONTRACTOR TO INSTALL. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF THE SYSTEM AS SHOWN IN THE DESIGN DOCUMENTS. CONTRACTOR SHALL ALSO PURCHASE LOW AMBIENT PACKAGE, UNIT CONTROLLER, PROGRAMMABLE THERMOSTAT AND ECONOMIZER ATTACHMENT ACCESSORIES AND INSTALL IN THE FIELD. ECONOMIZER ACCESSORY SHALL BE MODIFIED IN THE SAME MANNER AS NOTED IN REMARK 11 OF THE SCHEDULE FOR FCU/CU-1 & 8. CONTRACTOR SHALL ALSO PURCHASE AND INSTALL RAWAL DEVICE, MODEL NUMBER APR-2.5, FOR PART LOAD CONTROL. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL DUCT SMOKE DETECTOR IN SUPPLY.



1 M-1.02 2ND FLOOR PLAN - MECHANICAL
3/16" = 1'-0"

DATE	RELEASE
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

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2ND FLOOR PLAN

M-1.02

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE	IE	INVERT ELEVATION
A/C	ABOVE CEILING	L, LAV	LAVATORY
A/F	ABOVE FLOOR	MBH	1000 BTU/HR
AFF, A/FG	ABOVE FINISHED FLOOR/GRADE	MS	MOP SINK
B/F	BELOW FLOOR	MV	MIXING VALVE
BFP	BACKFLOW PREVENTER	O/H	OVERHEAD
B/G	BELOW GRADE	G	NATURAL GAS
CONT	CONTINUATION	PRV	PRESSURE REDUCING VALVE
CW	COLD WATER	RP	RECIRCULATION PUMP
DN	DOWN	S, SAN	SANITARY
ET	EXPANSION TANK	SH	SHOWER
EWC	ELECTRIC WATER COOLER	SK	SINK
FCO	FLOOR CLEANOUT	TP	TRAP PRIMER
FD	FLOOR DRAIN	TYP	TYPICAL
FHB	FREEZEPROOF HOSE BIBB	UR	URINAL
FS	FLOOR SINK	V	VENT
FWH	FREEZEPROOF WALL HYDRANT	VTR	VENT THROUGH ROOF
GCO	GRADE CLEANOUT	WC	WATER CLOSET
HB	HOSE BIBB	W.C.	WATER COLUMN
HW	HOT WATER	WCO	WALL CLEANOUT
HWR	HOT WATER RETURN	WHA	WATER HAMMER ARRESTER
IMB	ICE MACHINE BOX	WMB	WASHING MACHINE BOX

LEGEND

CW	COLD WATER PIPE
HW	HOT WATER PIPE
HWR	HOT WATER RETURN PIPE
F	FIRE SPRINKLER PIPE
G	NATURAL GAS PIPE
S	SANITARY PIPE
ST	STORM PIPE
V	VENT PIPE
	PIPING B/F
	PIPE UP / PIPE DOWN
	PIPE TEE FROM TOP / TEE FROM BOTTOM
	PIPE CAP / PIPE CONTINUATION
	DIRECTIONAL FLOW ARROW
	BALL VALVE / CHECK VALVE
	MIXING VALVE / PRESSURE REDUCING VALVE
	BACKFLOW PREVENTER ASSEMBLY
	WALL HYDRANT / HOSE BIBB
	FLOOR DRAIN / FLOOR SINK
	WATER HAMMER ARRESTOR
	GAS COCK / GAS SOLENOID VALVE
	P-TRAP
	HUB DRAIN
	TRAP PRIMER
	FLOOR CLEANOUT / GRADE CLEANOUT
	VENT THROUGH ROOF
	PIPE CLEANOUT / WALL CLEANOUT

RETURN AIR PLENUMS

ALL EXPOSED MATERIALS WITHIN RETURN AIR PLENUMS SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50, AS DETERMINED IN ACCORDANCE WITH ASTM E84 AND U.L. LISTINGS. PROVIDE COPPER AND CAST IRON PIPING. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL RETURN AIR PLENUM LOCATIONS WITH THE MECHANICAL CONTRACTOR.

WASTE AND VENT PIPING SYSTEMS AND ACCESSORIES
SANITARY AND VENT PIPING AND FITTINGS LOCATED IN RETURN AIR PLENUM SHALL BE CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE CAST IRON SOIL PIPE INSTITUTE (CISPI) STANDARD 301, ASTM A888 OR ASTM A74 (LATEST EDITIONS). PIPE SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF CISPI OR RECEIVE PRIOR APPROVAL OF THE ENGINEER.

JOINTS FOR HUBLESS CAST IRON SOIL PIPES AND FITTINGS SHALL CONFORM TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, THE CISPI STANDARD 310 (LATEST EDITION) AND BE CERTIFIED BY NSF FOR COMPLIANCE TO CISPI 310 OR RECEIVE PRIOR APPROVAL OF THE ENGINEER. HUBLESS COUPLING GASKETS SHALL CONFORM TO ASTM STANDARD C564. NO-HUB COUPLINGS SHALL BE HEAVY DUTY TYPE BY MISSION, HUSKY, OR APPROVED EQUAL.

SANITARY PIPING NOT LOCATED IN RETURN AIR PLENUMS SHALL BE PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM.

PLUMBING GENERAL NOTES

GENERAL
ALL WORK SHALL COMPLY WITH ALL STATE, CITY AND LOCAL CODES, RULES AND REGULATIONS. CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS AND INSPECTIONS ASSOCIATED WITH THIS WORK, AND SHALL PAY ALL COSTS AND FEES INVOLVED.

ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE BEST RECOGNIZED PRACTICE IN THE FIELD CONCERNED. MANUFACTURED ITEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED DIRECTIONS, SPECIFICATIONS AND RECOMMENDATIONS.

CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND SHALL BE FAMILIAR WITH THE SCOPE AND REQUIREMENTS OF THIS PROJECT. ANY DISCREPANCIES OR LACK OF CLARITY IN THE DOCUMENTS SHALL BE IDENTIFIED TO THE ARCHITECT OR ENGINEER PRIOR TO THE SUBMISSION OF PRICING BIDS. WITH A SUBMITTED BID, CONTRACTOR IS ACCEPTING THESE DOCUMENTS AS SUFFICIENT DEFINITION OF THE SCOPE OF WORK, AND ANY ADDITIONAL COSTS BASED ON UNCLARITY OF CONTRACT DOCUMENTS WILL NOT BE CONSIDERED.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS FOR EQUIPMENT INSTALLATION PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS. ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED SUCH THAT THEY ARE EASILY ACCESSIBLE AND SERVICABLE. THIS EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO: PLUMBING FIXTURES, WATER HEATERS, EXPANSION TANKS, PUMPS, BACKFLOW PREVENTERS, VALVES, MIXING VALVES, THERMOMETERS, GAUGES, TRAP PRIMERS AND CLEANOUTS.

THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE FULL SET OF CONSTRUCTION DOCUMENTS, INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL & ELECTRICAL DRAWINGS (AS APPLICABLE) TO ENSURE ALL PLUMBING WORK IS COORDINATED WITH PHYSICAL CONDITIONS AND ALL OTHER TRADES.

THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE ARCHITECTURAL DRAWINGS TO ENSURE THERE IS ADEQUATE WALL THICKNESS SUCH THAT ALL PIPING, FIXTURE CARRIERS, WALL CLEANOUTS, WALL BOXES, WALL HYDRANTS AND ACCESS PANELS WILL FIT IN THE WALL SPACE. CONTRACTOR SHALL NOTIFY THE ARCHITECT IF WALL SPACE IS INADEQUATE PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL OBTAIN EXACT WALL, FIXTURE, AND LAYOUT DIMENSIONS FROM THE ARCHITECTURAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ROUGH-IN AND INSTALLATION DRAWINGS FOR ALL PLUMBING FIXTURES, KITCHEN EQUIPMENT AND OWNER FURNISHED EQUIPMENT (AS APPLICABLE), AND SHALL COORDINATE THE PLUMBING INSTALLATION PRIOR TO COMMENCING THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL NECESSARY VALVES, CONNECTIONS, TRAPS, ACCESS PANELS, UNIONS, ESCUTCHEONS, WATER HAMMER ARRESTORS, VACUUM BREAKERS, RELIEF VALVES, PIPE INSULATION, AND EQUIPMENT SPECIALTY DEVICES AS REQUIRED TO FACILITATE COMPLETE AND OPERATIONAL CONDITIONS WHICH ARE IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

THESE DRAWINGS ARE DIAGRAMMATIC AND DO NOT REFLECT ALL POSSIBLE PHYSICAL CONDITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND EXACT LOCATIONS OF EQUIPMENT AND FIXTURES. PROVIDE NECESSARY PIPING OFFSETS TO COORDINATE WITH THE BUILDING STRUCTURE, WORK OF OTHER TRADES, AND CONNECTION TO SITE UTILITIES (AS APPLICABLE).

COORDINATE THE ELECTRICAL REQUIREMENTS AND CHARACTERISTICS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ISSUING SUBMITTALS OR PURCHASING EQUIPMENT.

UNLESS NOTED OTHERWISE, ALL DRAINAGE PIPING SHALL BE SLOPED AT A MINIMUM OF 1/8" PER FOOT. 2" SANITARY PIPING AND ALL GREASE WASTE PIPING SHALL BE SLOPED AT 1/4" PER FOOT.

DOMESTIC WATER PIPING SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. PIPING TO BE FLUSHED AND STERILIZED IN ACCORDANCE WITH IPC 610.1 AND ALL APPLICABLE LOCAL AND STATE HEALTH DEPARTMENT STANDARDS.

ALL DOMESTIC WATER PIPING SUBJECT TO FREEZING SHALL BE INSULATED AND PROVIDED WITH HEAT TRACE. CONDENSATE PIPING SUBJECT TO FREEZING WITHIN WALK-IN FREEZERS SHALL BE INSULATED AND PROVIDED WITH HEAT TRACE. PIPING INSTALLED IN EXTERIOR WALLS SHALL BE WRAPPED IN PIPE INSULATION AND BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING INSULATION.

IN CONCEALED LOCATIONS WHERE PIPING, OTHER THAN CAST-IRON OR GALVANIZED STEEL, IS INSTALLED THROUGH HOLES OR NOTCHES IN STUDS, JOISTS, OR SIMILAR MEMBERS LESS THAN 1 1/2" FROM THE NEAREST EDGE OF MEMBER, PIPE SHALL BE PROTECTED BY STEEL SHIELD PLATES IN ACCORDANCE WITH IPC 305.6.

PIPE PENETRATIONS THROUGH FIRE RATED WALLS OR FLOORS SHALL HAVE EQUIVALENTLY RATED SLEEVES AND SHALL BE SEALED AND FIRE CAULKED WITH A U.L. LISTED FIRE STOPPING SYSTEM INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTED DETAILS AND SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE REQUIREMENTS OF THE COUNTY HEALTH DEPARTMENT AND OTHER LOCAL AUTHORITIES HAVING JURISDICTION REGARDING CROSS CONNECTION CONTROL OR OBTAINING A FOOD SERVICE PERMIT (AS APPLICABLE). REPORT ANY OBSERVED DISCREPANCIES TO THE ARCHITECT OR ENGINEER PRIOR TO COMMENCING WITH THE WORK.

CONTRACTOR SHALL CONFIRM PLUMBING FIXTURE FINISHES WITH THE ARCHITECTURAL SCHEDULES & DETAILS (AS APPLICABLE).

FIRE PROTECTION GENERAL NOTES

FURNISH AND INSTALL A COMPLETE AUTOMATIC SPRINKLER SYSTEM WITH ALL REQUIRED PIPING, SPRINKLER HEADS AND ACCESSORIES FOR THE ENTIRE NEW BUILDING. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, CONNECTIONS AND ANY OTHER FEES ASSOCIATED WITH THE INSTALLATION OF THE FIRE PROTECTION SYSTEM.

CONTRACTOR SHALL COORDINATE THE PERFORMANCE OF A NEW WATER FLOW TEST FOR THE FLOW AND PRESSURE DATA TO BE USED IN HYDRAULIC CALCULATIONS.

ALL ELEMENTS OF THE FIRE PROTECTION SYSTEM SHALL BE U.L. LISTED. ALL ELEMENTS OF THE FIRE PROTECTION SYSTEM SHALL CONFORM TO ALL REQUIREMENTS OF THE FOLLOWING:
NFPA 13, 14, 20 AND 24
ALL LOCAL, COUNTY AND STATE REGULATIONS
LOCAL FIRE MARSHAL
OWNER'S INSURANCE UNDERWRITER

LISTED WET TYPE PENDENT SPRINKLER SHALL BE INSTALLED IN ALL AREAS, UNLESS OTHERWISE NOTED. INSTALL UPRIGHT SPRINKLERS IN AREAS WITH UNFINISHED CEILINGS. PENDENT-TYPE SEMI-RECESSED OR CONCEALED SPRINKLERS SHALL BE INSTALLED IN FINISHED CEILINGS. INSTALL SIDEWALL SPRINKLERS AS NEEDED FOR FULL COVERAGE.

PROVIDE AN ALARM TEST CONNECTION FOR EACH SYSTEM NOT LESS THAN 1" DIA. IN ACCORDANCE WITH NFPA 13, 8.17.4.1

THE CONTRACTOR SHALL FULLY COORDINATE ALL PHASES OF WORK WITH THE ARCHITECT AND ALL OTHER TRADES PRIOR TO AND DURING THE COURSE OF THE INSTALLATION IN ITS ENTIRETY. PIPING INSTALLATION AND THE PLACEMENT OF SPRINKLER HEADS AND SYSTEM DEVICES MUST BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLAN, MECHANICAL DUCTWORK AND EQUIPMENT, ELECTRICAL CONDUIT AND DEVICES, PLUMBING PIPING, AND THE STRUCTURAL CONSTRAINTS OF THE BUILDING.

ANY DISCREPANCIES ENCOUNTERED BY THE CONTRACTOR IN THE REPRESENTATION OF THESE DRAWINGS AND OR SPECIFICATIONS SHALL IMMEDIATELY BE COORDINATED WITH THE ARCHITECT.

AS APPLICABLE, COORDINATE WITH ELECTRICAL CONTRACTOR FOR WIRING OF DEVICES REQUIRING INTERLOCK TO THE FIRE ALARM SYSTEM, SUCH AS TAMPER SWITCHES AND FLOW SWITCHES.

REMOTE SYSTEM DRAIN TO BE INSTALLED & COORDINATED WITH ARCHITECT FOR EXACT LOCATION.

A CABINET SHALL BE PROVIDED CONTAINING A SUPPLY OF AT LEAST SIX SPARE SPRINKLERS (OF EACH INSTALLED TYPE) IN AN AREA THAT WILL AT NO TIME EXCEED 100°F. A LIST OF INSTALLED SPRINKLERS SHALL BE POSTED IN THE CABINET.

FIRE PROTECTION CONTRACTOR TO PROVIDE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS WITH ALL PIPE SIZES, SPRINKLER LOCATIONS, FLOW AND TAMPER SWITCHES, INSPECTOR TESTS, ETC. THE SHOP DRAWINGS SHALL BE SUBMITTED TO ALL AUTHORITIES HAVING JURISDICTION AND TO OWNERS INSURANCE UNDERWRITER FOR APPROVAL. AFTER APPROVAL HAS BEEN OBTAINED FROM THE ABOVE AGENCIES THE SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR FINAL REVIEW.

WHERE A DRY PIPE SPRINKLER SYSTEM IS PROVIDED, THE AIR COMPRESSOR SHALL BE BY VIKING CORPORATION OR GENERAL AIR PRODUCTS (OR EQUAL) AND LISTED FOR FIRE PROTECTION USE.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	WASTE RUNOUT	WASTE CONN.	VENT	WATER RUNOUT CW	WATER RUNOUT HW	WATER CONN. CW	WATER CONN. HW	SPECIFICATION
L-1	LAVATORY - UNDERMOUNT, SENSOR FAUCET	2"	1 1/2"	2"	1/2"	1/2"	3/8"	3/8"	UNDERMOUNT LAVATORY (AMERICAN STANDARD "OVALYN," 0496.221) AND DC BATTERY-POWERED, SENSOR-OPERATED FAUCET WITH POLISHED CHROME FINISH, 0.5 GPM (KOHLER K-13461). HANDICAP DRAIN OFFSET W/GRID DRAIN (ZURN 8746-PC) AND CHROME PLATED P-TRAP (ZURN Z8701-PC). CHROME PLATED BRASS ANGLE SUPPLY STOPS WITH 12" LONG X 3/8" FLEX SUPPLIES (MCGUIRE H165). WHERE NOT CONCEALED BY COUNTER SHROUD, INSULATE OFFSET, TRAP AND SUPPLY LINES (TRUEBRO "LAVGUARD," #103 E-Z). PROVIDE WITH MIXING VALVE MV-1.
L-2	LAVATORY (ADA) - WALL HUNG	2"	1 1/2"	2"	1/2"	1/2"	3/8"	3/8"	WALL HUNG LAVATORY (KOHLER K-2084-R) WITH CONCEALED ARM CARRIER MOUNTING (ZURN Z1231). PROVIDEND DC BATTERY-POWERED, SENSOR-OPERATED FAUCET WITH POLISHED CHROME FINISH, 0.5 GPM (KOHLER K-13461). HANDICAP DRAIN OFFSET W/GRID DRAIN (ZURN Z8746-PC) AND CHROME PLATED P-TRAP (ZURN Z8701-PC). CHROME PLATED BRASS ANGLE SUPPLY STOPS WITH FLEX SUPPLIES (MCGUIRE H165). INSULATE OFFSET, TRAP AND SUPPLY LINES (TRUEBRO "LAVGUARD," #103 E-Z). PROVIDE WITH MIXING VALVE MV-1.
SK-1	STAINLESS STEEL SINK, UNDERMOUNT, SINGLE BOWL (ADA)	2"	1 1/2"	2"	1/2"	1/2"	3/8"	3/8"	STAINLESS STEEL SINGLE BOWL UNDERMOUNT SINK (ELKAY ELUHAD211555PD). BOWL DIMENSIONS: 23.5"L, 18.25"W, 5.5"D. ADA COMPLIANT 1.5 GPM FAUCET WITH PULL-DOWN SPRAY (KOHLER K-R27459-SD), SINGLE HOLE MOUNTING. MCGUIRE CHROME PLATED P-TRAP W/C.O., CHROME PLATED BRASS ANGLE SUPPLY STOPS, 12" LONG X 3/8" FLEX SUPPLIES.
WC-1	WATER CLOSET - WALL MOUNT W/AUTO FLUSH VALVE	4"	3"	2"	1"	---	1"	---	WALL MOUNTED, FLUSH VALVE WATER CLOSET, WHITE VITREOUS CHINA. TOP OF RIM AT 15" AFF. PROVIDE EXPOSED DUAL FLUSH (1.6/1.1 GPF), SENSOR OPERATED, SELECTRONIC PWRX, CHROME PLATED FLUSH VALVE (AMERICAN STANDARD 3351.576). PROVIDE HEAVY DUTY OPEN FRONT SEAT, LESS COVER, (AMERICAN STANDARD 5905.100).
WC-2	WATER CLOSET (ADA) - WALL MOUNT W/AUTO FLUSH VALVE	4"	3"	2"	1"	---	1"	---	WALL MOUNTED, FLUSH VALVE WATER CLOSET, WHITE VITREOUS CHINA. TOP OF RIM AT 16.5" AFF. PROVIDE EXPOSED DUAL FLUSH (1.6/1.1 GPF), SENSOR OPERATED, SELECTRONIC PWRX, CHROME PLATED FLUSH VALVE (AMERICAN STANDARD 3351.576). PROVIDE HEAVY DUTY OPEN FRONT SEAT, LESS COVER, (AMERICAN STANDARD 5905.100).
UR-1	URINAL - HIGH EFFICIENCY, WALL MOUNTED W/SENSOR FLUSH VALVE	2"	2"	2"	3/4"	---	3/4"	---	WALL MOUNTED, FLUSH VALVE URINAL, WHITE VITREOUS CHINA. HIGH EFFICIENCY WATERSENSE LISTED. PROVIDE EXPOSED, SENSOR OPERATED, SELECTRONIC PWRX, CHROME PLATED, 0.125 GPF FLUSH VALVE (AMERICAN STANDARD 6042.633). PROVIDE ZURN 1222 SUPPORT SYSTEM. COORDINATE MOUNTING HEIGHT(S) AND ADA DESIGNATIONS WITH ARCHITECTURAL DRAWINGS.
SH-1	SHOWER	3"	3"	2"	1/2"	1/2"	1/2"	1/2"	AMERICAN STANDARD "RELIANT 3" SHOWER TRIM (T385.501.002), WITH PRESSURE BALANCING VALVE (R12055). PROVIDE SHOWER DRAIN WITH FLASHING COLLAR AND ROUND TOP ADJUSTABLE STRAINER HEAD (J.R. SMITH #2010). SHOWER ENCLOSURE AS SPECIFIED BY ARCHITECT.
SH-2	SHOWER (ADA)	3"	3"	2"	1/2"	1/2"	1/2"	1/2"	AMERICAN STANDARD "FLOWISE" SHOWER SYSTEM (1662.213), CONTAINING PRESSURE BALANCING VALVE, TRIM KIT, 3-FUNCTION HAND SHOWER, 59" (MIN) METAL HOSE, VACUUM BREAKER, 2-WAY DIVERTER VALVE, SHOWERHEAD, WALL SUPPLY AND 36" SLIDE BAR. HANDHELD SHOWER SPRAY SHALL BE 48" (MAX) WHEN ADJUSTED TO LOWEST POSITION ON BAR. PROVIDE SHOWER DRAIN WITH FLASHING COLLAR AND ROUND TOP ADJUSTABLE STRAINER HEAD (J.R. SMITH #2010). SHOWER ENCLOSURE AS SPECIFIED BY ARCHITECT.
EWC-1	WATER COOLER (ADA) - BI-LEVEL, WITH BOTTLE FILLER	2"	1 1/2"	2"	1/2"	---	1/2"	---	BI-LEVEL ADA WATER COOLER WITH BOTTLE FILLING STATION, INTEGRAL WATER FILTER & VISUAL DISPLAY TO INDICATE FILTER STATUS (ELKAY "EZH2O" LZSTLWMSLP). ORIFICES AT 38 3/8" AND 32 7/8" AFF. & GPH OF 50DEG WATER @ 80DEG ROOM TEMPERATURE. PROVIDE ACCESSORY APRON (LKAPREZL) IF INSTALLED ON AN EXPOSED WALL FOR CANE DETECTION. MOUNT WITH WALL CARRIER (ZURN 1225-BL).
MS-1	MOP SINK	3"	3"	2"	1/2"	1/2"	1/2"	1/2"	24"X24" FLOOR BASIN (FIAT MSB-2424) AND SERVICE FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT (830-AA). PROVIDE HOSE AND BRACKET (832-AA). MOP HANGER (889-CC). STAINLESS STEEL BUMPERGUARD (E-86-AA) AND STAINLESS STEEL WALL GUARD (MSG2424).
FD-1	FLOOR DRAIN - GENERAL PURPOSE	3"	3"	2"	---	---	---	---	GENERAL PURPOSE FLOOR DRAIN (J.R. SMITH #2005) WITH FLASHING COLLAR, ADJUSTABLE STRAINER HEAD & 5" ROUND NICKEL BRONZE STRAINER. PROVIDE SQUARE STRAINER FOR TILE APPLICATIONS. WHERE TRAP PRIMER IS SHOWN ON PLAN, PROVIDE TRAP PRIMER CONNECTION (-P2050)
FD-2	FLOOR DRAIN - MEDIUM DUTY	3"	3"	2"	---	---	---	---	MEDIUM DUTY FLOOR DRAIN WITH 12" DIAMETER TOP DRAIN WITH CAST IRON BODY AND SEDIMENT BUCKET (J.R. SMITH 2230). WHERE TRAP PRIMER IS SHOWN ON PLAN, PROVIDE TRAP PRIMER CONNECTION (-P).
FCO	FLOOR CLEANOUT	see plan	see plan	---	---	---	---	---	FLOOR CLEANOUT WITH CAST IRON BODY AND ADJUSTABLE NICKEL BRONZE TOP (J.R. SMITH 4033). CLEANOUT SIZE SHALL MATCH LINE SIZE.
WCO	WALL CLEANOUT	4"	4"	---	---	---	---	---	CLEANOUT PLUG AND COVER TO BE INSTALLED ON SANITARY TEE (J.R. SMITH 4472). CAST BRONZE TAPERED THREAD PLUG WITH STAINLESS STEEL ROUND COVER.
GCO	EXTERIOR GRADE CLEANOUT	see plan	see plan	---	---	---	---	---	HEAVY DUTY CLEANOUT FOR EXTERIOR APPLICATION (J.R. SMITH 4261). CAST IRON BODY WITH DOUBLE FLANGED HOUSING AND CAST IRON TOP.
TS-1	INLINE TRAP SEALER	---	see plan	---	---	---	---	---	INLINE FLOOR DRAIN TRAP SEALER (SURE SEAL 553000). ASSE 1072.
TP-L	LAVATORY TYPE TRAP PRIMER	1/2"	1/2"	---	---	---	---	---	LAVATORY TRAP PRIMER SYSTEM WITH P-TRAP, 1/2" PRIME TUBE AND WALL ESCUTCHEON (J.R. SMITH "PRIME-EZE", 2698 OR 2698-ADA, AS APPLICABLE). ASSE STANDARD 1044.
WHA-X	WATER HAMMER ARRESTOR	---	---	---	see plan	---	see plan	---	WATER HAMMER ARRESTOR, ASSE 1010 (J.R. SMITH SERIES 5005-5050), 'X' IN 'WHA-X' REFERS TO PDI SIZE INDICATED ON DRAWINGS.
ET-1	POTABLE WATER EXPANSION TANK	---	---	---	3/4"	---	3/4"	---	LEAD-FREE POTABLE WATER EXPANSION TANK (WATTS PLT-12). 4.5 GALLONS TOTAL VOLUME, 1.8 GALLONS MAXIMUM ACCEPTANCE VOLUME. TANK SHALL BE PRE-CHARGED TO THE SYSTEM PRESSURE PRIOR TO INSTALLATION (CONTRACTOR TO FIELD-VERIFY).
FWH-1	FREEZEPROOF WALL HYDRANT IN BOX	---	---	---	3/4"	---	3/4"	---	CONCEALED 3/4" HOSE CONNECTION IN WALL BOX, WITH INTEGRAL AUTOMATIC DRAINING, ANTI-SIPHON VACUUM BREAKER (J.R. SMITH 5509QT). LENGTH TO SUIT WALL THICKNESS. PROVIDED WITH QUARTER TURN, SQUARE FITTING, T-HANDLE KEY.
HB-1	HOSE BIBB	---	---	---	3/4"	---	3/4"	---	WOODFORD MODEL 24C HOSE BIBB WITH KNOB HANDLE AND 3/4" HOSE CONNECTION WITH ANTI-SIPHON VACUUM BREAKER (ASSE 1011).
DSB-1	DOWNSPOUT BOOT	---	---	---	---	---	---	---	ANGULAR OFFSET CAST IRON DOWNSPOUT BOOT WITH SIDE CLEANOUT (J.R. HOE AND SONS A-SERIES) OR APPROVED EQUAL. PROVIDE STAINLESS STEEL FERRULES WHEN ATTACHING TO A NON-MASONRY WALL SURFACE. REFER TO PLANS FOR SIZE.
WMB-1	WASHING MACHINE BOX	2"	2"	2"	1/2"	1/2"	1/2"	1/2"	WASHING MACHINE CONNECTION BOX (OATEY 3874x SERIES), 1/4 TURN BRASS BALL VALVES WITH INTEGRAL FACTORY INSTALLED WATER HAMMER ARRESTORS. WHERE BOX IS TO BE INSTALLED IN FIRE RATED WALL, PROVIDE OATEY 3847X SERIES. INTERCEPT DRAINAGE HOSE FROM WASHING MACHINE AND INSTALL INLINE WALL MOUNTED CANISTER STYLE LINT TRAP WITH REMOVABLE FILTER (FILTROL 160, OR EQUAL). LINT TRAP DRAINS TO WALL BOX.
IMB-1	ICE MAKER/REFRIGERATOR BOX	---	---	---	1/2"	---	1/2"	---	ICE MAKER CONNECTION BOX (OATEY #385xx/386xx SERIES), 6"X6". LOW LEAD, 1/4 TURN BRASS VALVE WITH INTEGRAL FACTORY INSTALLED WATER HAMMER ARRESTOR. WHERE BOX IS TO BE INSTALLED IN FIRE RATED WALL, PROVIDE OATEY 391xx SERIES. PROVIDE BACKFLOW PREVENTER IN SUPPLY LINE (WATTS 503, ASSE 1022).
CB-1	CATCH BASIN	4"	4"	---	---	---	---	---	12"x12"x12" DEEP NDS CATCH BASIN WITH 4" OUTLET
MV-1	MIXING VALVE (POINT OF USE)	---	---	---	1/2"	1/2"	3/8"	3/8"	POINT-OF-USE THERMOSTATIC MIXING VALVE (LEONARD #170-LF) WITH INTEGRAL INLET CHECK VALVES, TEMPERATURE ADJUSTMENT KNOB WITH LOCK SCREW, LEAD FREE. ASSE STANDARD 1070. MINIMUM FLOW 0.25 GPM, 5 PSI DROP @ 1.7 GPM.
MV-2	HIGH-LOW MIXING VALVE	---	---	---	1.5"	1.25", 1.5"	1.5"	1.25", 1.5"	HIGH-LOW THERMOSTATIC MIXING VALVE (LEONARD TM-1520B-LF-DT) WITH INTEGRAL INLET CHECK VALVES, TEMPERATURE ADJUSTMENT KNOB WITH LOCK SCREW, LEAD FREE. ASSE STANDARD 1017. MINIMUM FLOW 1.0 GPM, 40 GPM @ 5PSI PRESSURE DROP. PROVIDE WALL MOUNTING BRACKET.

GAS WATER HEATER SCHEDULE

MARK	TANK CAPACITY	RECOVERY	SETPOINT	GAS INPUT	BASIS
WH-1	100	261 GPH @ 90° RISE	140°	199,900 BTU	A.O. SMITH BTH-199
WH-2	100	261 GPH @ 90° RISE	140°	199,900 BTU	A.O. SMITH BTH-199
PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VERIFY THE APPROPRIATE ELECTRICAL CHARACTERISTICS OF THE SELECTED WATER HEATER. COORDINATE DIRECTLY WITH THE ELECTRICAL CONTRACTOR AND THE POWER PANEL SCHEDULES ON THE ELECTRICAL DRAWINGS.					

RECIRCULATION PUMP SCHEDULE

MARK	ELECTRICAL	CAPACITY	NOTES	BASIS
RP-1	120v	4.0 GPM @ 3 HEAD	PROVIDE 24-HOUR TIMER. PROVIDE ADJUSTABLE AQUASTAT (HONEYWELL L6006 OR EQUAL).	ARMSTRONG ASTRO SERIES
PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VERIFY THE APPROPRIATE ELECTRICAL CHARACTERISTICS OF THE SELECTED PUMP. COORDINATE DIRECTLY WITH THE ELECTRICAL CONTRACTOR AND THE POWER PANEL SCHEDULES ON THE ELECTRICAL DRAWINGS.				
CONTRACTOR SHALL INSTALL BALANCING VALVE AND SHALL ADJUST AS NEEDED TO ENSURE PUMP FLOW DOES NOT EXCEED 5 GPM				

ELEVATOR SUMP PUMP SCHEDULE

MARK	CAPACITY	ELECTRICAL	BASIS	NOTES
ESP-1	50 GPM @ 20' HEAD	3/4 HP	LIBERTY ELV-290 WITH OIL-TECTOR SYSTEM	UNIT SHALL PUMP EFFLUENT WITHOUT EJECTING HYDRAULIC FLUID TO SEWER. OIL SENSOR SHALL PAUSE PUMPING AS NEEDED TO SEPARATE OIL FROM WATER PRIOR TO DISCHARGE.
PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VERIFY THE APPROPRIATE ELECTRICAL CHARACTERISTICS OF THE SELECTED PUMP. COORDINATE DIRECTLY WITH THE ELECTRICAL CONTRACTOR AND THE POWER PANEL SCHEDULES ON THE ELECTRICAL DRAWINGS.				

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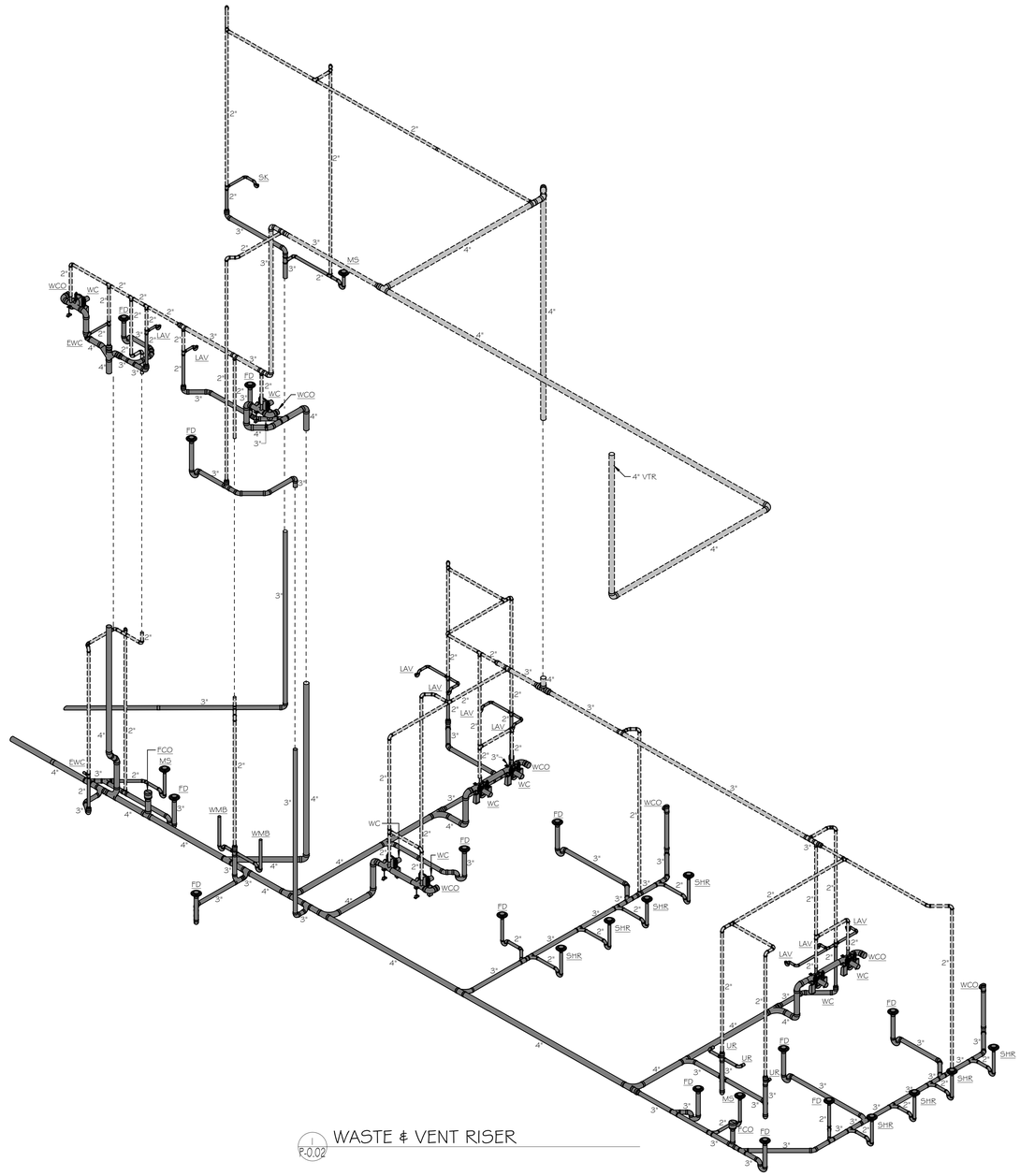
GEORGIA REGISTERED PROFESSIONAL ENGINEER

PROJECT # 0191-A

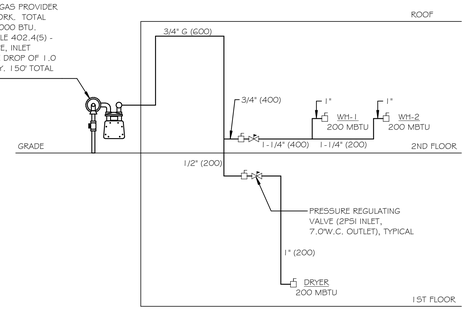
GENERAL

P-0.01



1 P-0.02 WASTE & VENT RISER

NATURAL GAS PRESSURE REGULATOR & METER INSTALLATION (FIELD COORDINATE INSTALLATION OF NEW METER ASSEMBLY WITH NATURAL GAS PROVIDER). DELIVERY PRESSURE = 2PSI. CONTRACTOR SHALL CONFIRM THE AVAILABILITY OF 2PSI PRESSURE FROM NATURAL GAS PROVIDER PRIOR TO COMMENCING WORK. TOTAL CONNECTED LOAD = 600,000 BTU. SIZING BASED ON IFGC TABLE 402.4(5) - SCHEDULE 40 METALLIC PIPE, INLET PRESSURE 2PSI, PRESSURE DROP OF 1.0 PSI, 0.60 SPECIFIC GRAVITY, 150' TOTAL DEVELOPED LENGTH.



2 P-0.02 GAS PIPING RISER
N.T.S.

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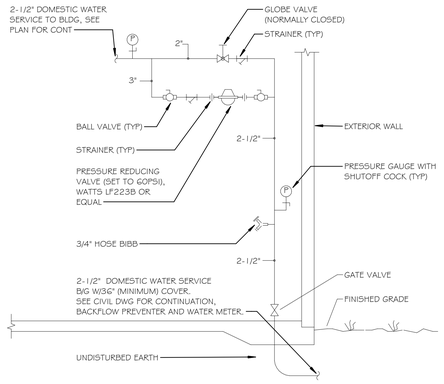
GEORGIA REGISTERED PROFESSIONAL ENGINEER MIKE ROESCH

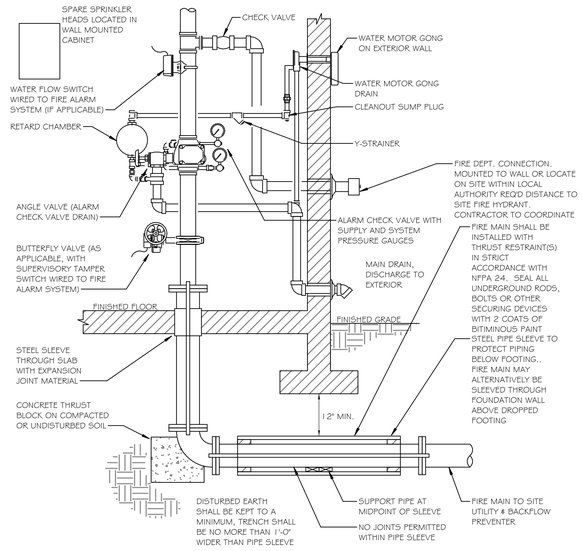
PROJECT #: 01914-A

RISERS

P-0.02

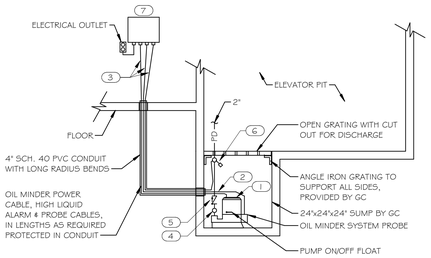


1 P-0.03 DOMESTIC WATER SERVICE ENTRANCE
1 2" = 1'-0"



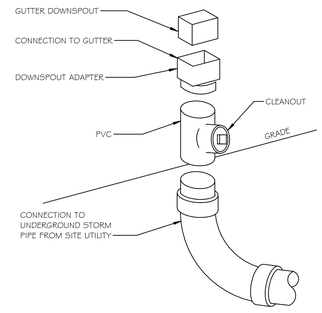
CONTRACTOR SHALL COORDINATE THE INSTALLATION SHOWN ABOVE WITH LOCAL FIRE MARSHAL REQUIREMENTS.

2 P-0.03 FIRE WATER SERVICE ENTRANCE W/ FDC
1 2" = 1'-0"



1. SUBMERSIBLE EFFLUENT PUMP, SEE SCHEDULE.
2. PROVIDE A MINIMUM OF 5 FEET EXTRA OF EACH CABLE ROLLED AND CLAMPED TO THE DISCHARGE PIPE TO ALLOW FOR THE REMOVAL OF THE SUMP PUMP FROM THE PIT.
3. PUMP POWER CABLE, PROBE CABLE AND HIGH LIQUID ALARM CABLE.
4. 3/16" BLEED HOLE
5. CHECK VALVE
6. HIGH LIQUID ALARM FLOAT WITH CLAMP DEVICE TO MOUNT TO PUMP DISCHARGE PIPING.
7. PUMP CONTROL PANEL WITH BUILT IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM. PANEL SHALL HAVE ADDITIONAL CONTACT FOR REMOTE ALARM.

3 P-0.03 ELEVATOR SUMP PUMP
1 2" = 1'-0"



NOTES:
1. SEE ARCHITECTURAL FOR ROUTING FROM GUTTER DOWNSPOUTS TO THE DOWNSPOUT ADAPTERS.
2. CIVIL SHALL CONNECT FROM DOWNSPOUTS TO CIVIL LATERALS.
3. WALL CLEANOUTS SHALL CONNECT AS CLOSE TO GRADE AS POSSIBLE.

4 P-0.03 DOWNSPOUT BOOT
1 2" = 1'-0"

5 P-0.03 HOT WATER RECIRCULATION PUMP
1 2" = 1'-0"

6 P-0.03 GAS FIRED WATER HEATERS W/RECIRCULATION
1 2" = 1'-0"

7 P-0.03 LAVATORY TRAP PRIMER
1 2" = 1'-0"

8 P-0.03 WASHING MACHINE BOX
N.T.S.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO USE PROPER INSTALLATION METHODS TO ENSURE WALL PENETRATION IS WATERTIGHT. LOCATION OF WALL PENETRATION SHALL IN BE STRICT ACCORDANCE WITH WATER HEATER MANUFACTURER'S INSTALLATION REQUIREMENTS.OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS.

9 P-0.03 CONCENTRIC VENT TERMINATION
N.T.S.

10 P-0.03 WALL CLEANOUT
1 2" = 1'-0"

11 P-0.03 FLOOR DRAIN
1 2" = 1'-0"

12 P-0.03 THERMOSTATIC MIXING VALVE
N.T.S.

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GEORGIA REGISTERED PROFESSIONAL ENGINEER MIKE ROEDER

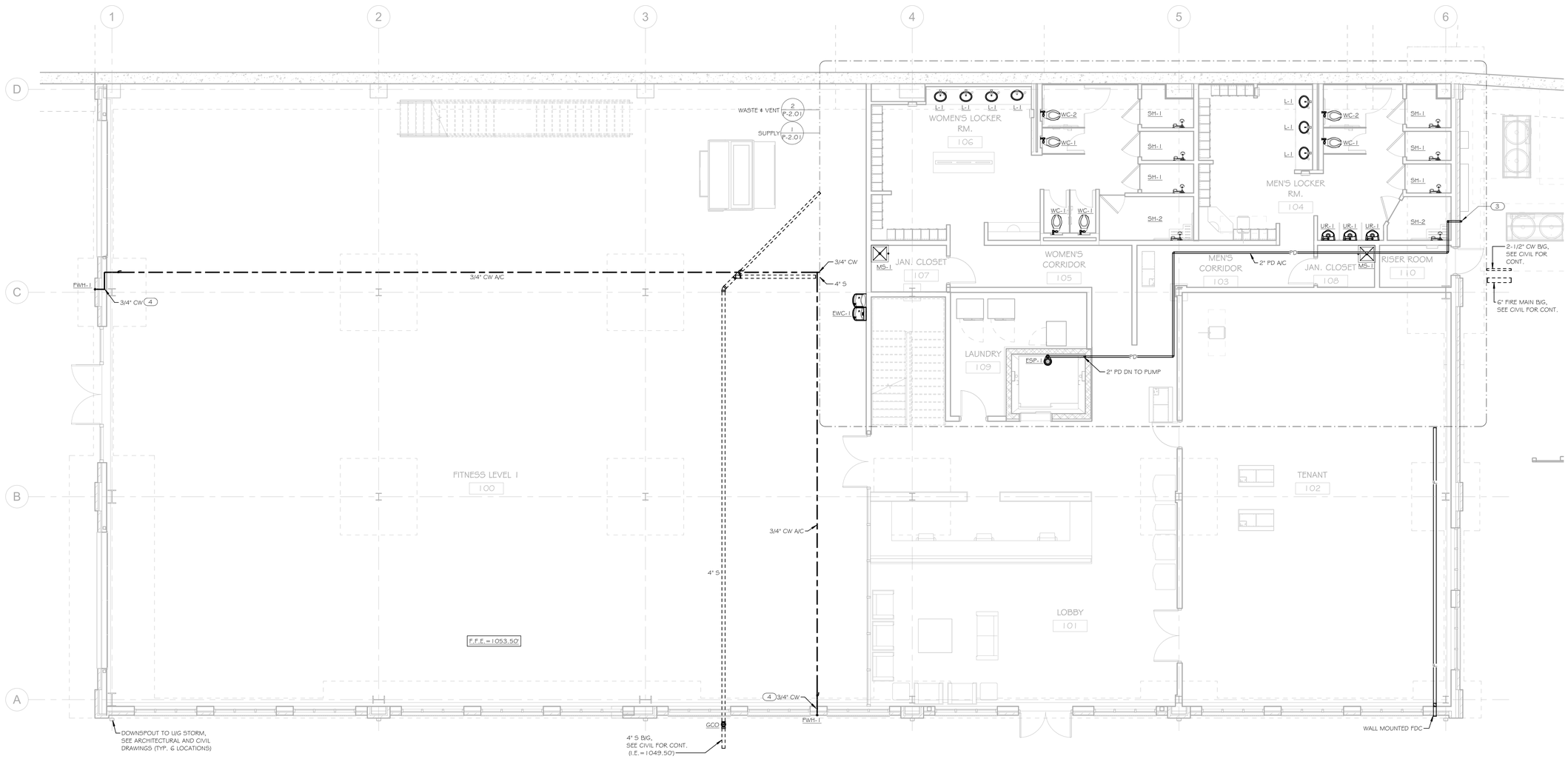
PROJECT # 01914-A

DETAILS

P-0.03

KEYNOTES

1. 6" SPRINKLER MAIN BIGSEE CIVIL FOR CONTINUATION AND LOCATION OF BACKFLOW PREVENTER ASSEMBLY. SPRINKLER DESIGN BY SPRINKLER CONTRACTOR.
2. 2-1/2" CW BIG, SEE CIVIL FOR CONTINUATION AND LOCATION OF METER AND BACKFLOW PREVENTER ASSEMBLY.
3. PUMP DISCHARGE PIPING DN IN WALL TO EXTERIOR AND TURNED DN OVER SPLASH BLOCK.
4. PIPING DN IN WALL OR CHASE WITH SHUT-OFF VALVE TO FIXTURE, SIZE AS NOTED.



P-1.01 1ST FLOOR PLAN - PLUMBING
3/16" = 1'-0"

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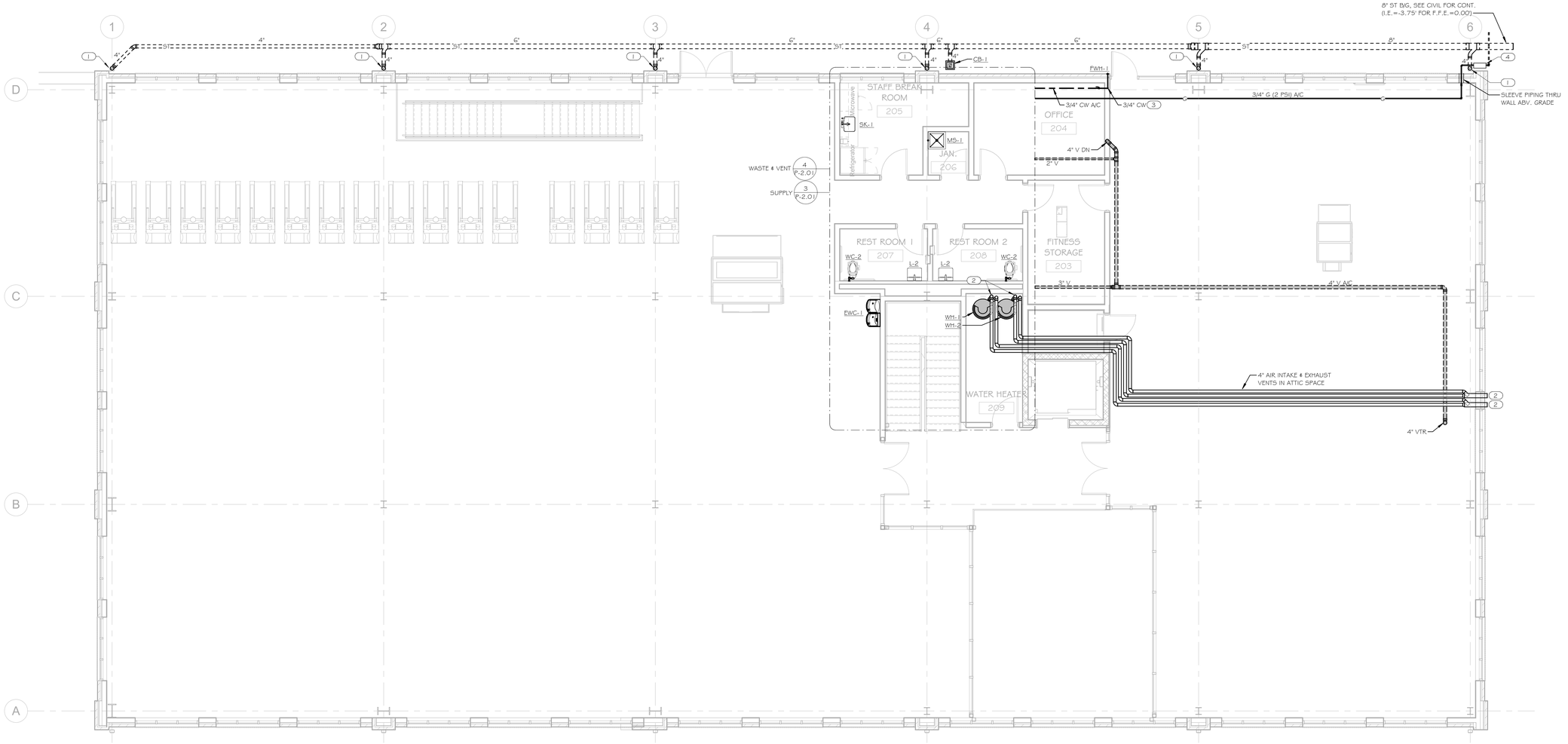
1ST FLOOR PLAN

P-1.01

KEYNOTES

1. STORM WATER UP TO DOWNSPOUT BOOT, SEE DETAIL.
2. ROUTE PVC COMBUSTION AIR INTAKE & PVC EXHAUST VENTS FROM WATER HEATER UP TO ATTIC AND TO WATER HEATER MANUFACTURER'S SIDEWALL CONCENTRIC VENT KIT (SEE DETAIL) AT 18'-0" A.F.F.. SIZE & INSTALL VENT PIPING IN STRICT ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
3. PIPING DN IN WALL OR CHASE WITH SHUT-OFF VALVE TO FIXTURE, SIZE AS NOTED.
4. NATURAL GAS PIPING BY LOCAL UTILITY PROVIDER SET TO DELIVERY 600,000 BTUH AT 2 PSI. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION. COORDINATE LOCATION WITH OWNERS REP. PAINT GAS PIPING SAFETY YELLOW.



2ND FLOOR PLAN - PLUMBING

P-1.02 3/16" = 1'-0"

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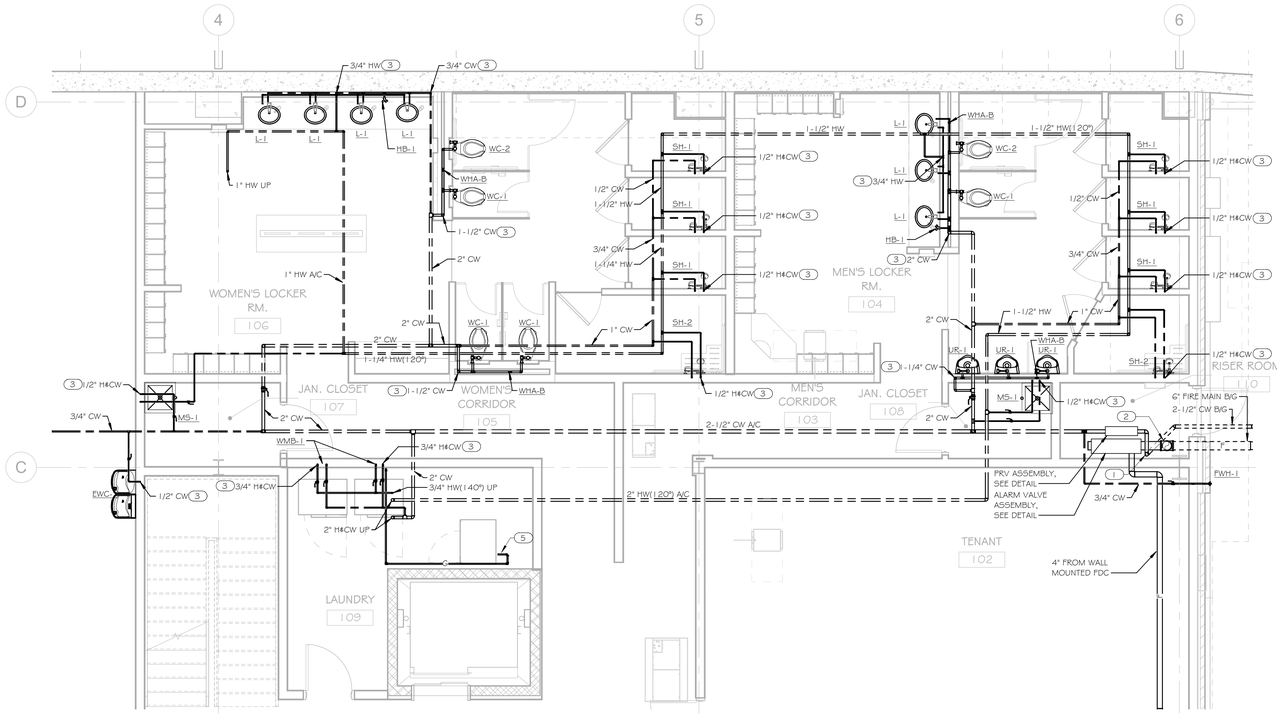
2ND FLOOR PLAN

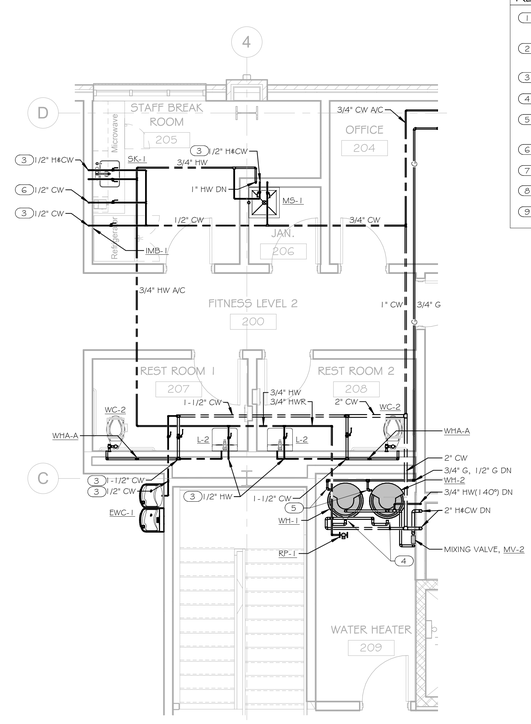
P-1.02

KEYNOTES

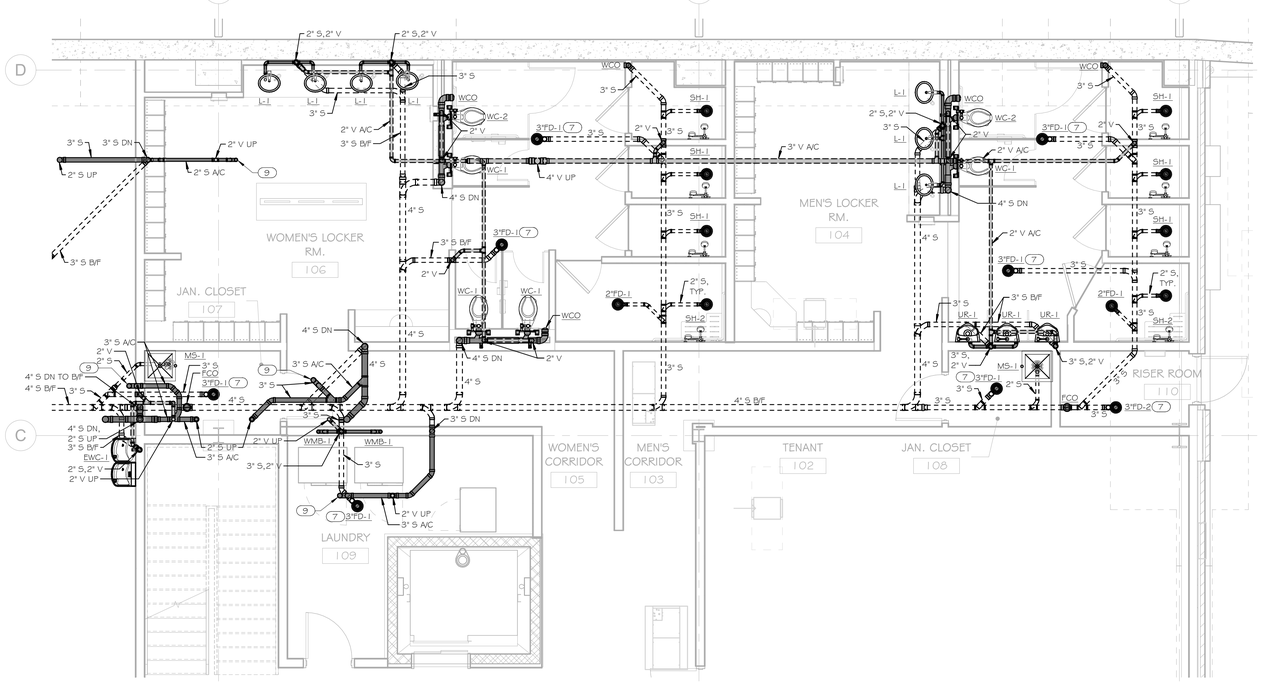
1. 2-1/2" CW UP FROM B/F WITH SHUT-OFF VALVE TO PRV ASSEMBLY, SEE DETAIL.
2. 6" SPRINKLER MAIN B/F AND UP TO ALARM VALVE ASSEMBLY, SEE DETAIL. SRINKLER DESIGN BY SPRINKLER CONTRACTOR.
3. PIPING DN IN WALL OR CHASE TO FIXTURE, SIZE AS NOTED.
4. 2" CW & 2"HW (140°F) TO WATER HEATER INSTALLATION, SEE DETAIL.
5. NATURAL GAS CONNECTION TO EQUIPMENT W/ SHUT-OFF VALVE, DIRT LEG, PRESSURE REDUCING VALVE & UNION, SEE DETAIL.
6. 1/2" CW DN IN WALL TO COFFEE MAKER WITH SHUT-OFF VALVE.
7. PROVIDE TRAP SEAL TS-1 IN DRAIN BODY, SEE SCHEDULE.
8. TRAP PRIMER TP-1 WITH 1/2" TP LINE B/F TO FD.
9. P-TRAP HIGH WITH PIPING UP TO DRAIN ABOVE, SIZE AS NOTED.



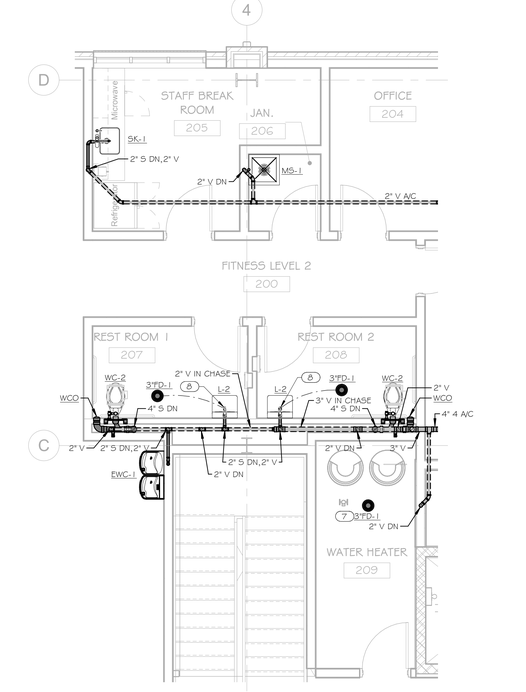
1 P-2.0 ENLARGED 1ST FLOOR PLAN - SUPPLY
1/4" = 1'-0"



3 P-2.0 ENLARGED 2ND FLOOR PLAN - SUPPLY
1/4" = 1'-0"



2 P-2.0 ENLARGED 1ST FLOOR PLAN - WASTE & VENT
1/4" = 1'-0"



4 P-2.0 ENLARGED 2ND FLOOR PLAN - WASTE & VENT
1/4" = 1'-0"

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GEORGIA REGISTERED PROFESSIONAL ENGINEER MIKE ROECKER

PROJECT #: 01914-A

ENLARGED PLANS

P-2.01

ELECTRICAL GENERAL NOTES

THE DESIGN OF THIS SET OF DOCUMENT IS BASED ON NEC 2017.

ELECTRICAL CONTRACTOR SHALL REFER TO ALL OTHER DESIGN DRAWINGS PRIOR TO BID AND RETAIN FULL UNDERSTANDING OF THE SCOPE OF WORK.

FIXTURE TYPE INDICATED BY UPPER CASE CHARACTERS, SWITCHING AND GROUPING DESIGNATED BY LOWER CASE LETTER AND CIRCUIT BY NUMBER (WHERE APPLICABLE).

REFER TO THE ARCHITECTURAL/INTERIORS REFLECTED CEILING PLANS FOR EXACT FIXTURE PLACEMENT AND DIMENSIONS.

REFER TO THE ARCHITECTURAL/INTERIORS DOCUMENTS FOR ACTUAL DEVICE LOCATIONS AND DIMENSIONS.

COORDINATE THE INSTALLATION OF ALL CEILING MOUNTED DEVICES (FIRE ALARM SYSTEM DEVICES AND SPEAKERS, SOUND SYSTEM SPEAKER, ETC.) TO BE SYMMETRICAL ABOUT LIGHT FIXTURES AND SPRINKLER HEADS. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN. TYPICAL.

ALL MOUNTING OF EQUIPMENT IS AS SHOWN UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECT THE COLOR/FINISHES OF ALL ELECTRICAL DEVICES, OUTLETS, COVERPLATES AND TRIM.

EMERGENCY BATTERY PACKS AND EXIT SIGNS SHALL BE CONNECTED AHEAD OF ANY SWITCHING DEVICES.

REFER TO MECHANICAL DRAWINGS FOR DUCT SMOKE DETECTOR LOCATIONS AND QUANTITIES OPERATION SHALL INCLUDE DUAL CONTACT BASE WITH LOCAL EQUIPMENT SHUTDOWN AND FIRE ALARM SIGNAL INITIATION.

WHEN CONDUCTOR OR CONDUIT SIZE IS INDICATED FOR BRANCH CIRCUIT HOME RUN, THE CONDUCTOR AND CONDUIT SIZE INDICATED SHALL BE USED FOR THE COMPLETE CIRCUIT.

REFER TO THE APPROPRIATE DRAWINGS FOR THE EXACT LOCATION AND REQUIREMENTS OF EQUIPMENT INSTALLED UNDER OTHER DIVISIONS OF THE DOCUMENTS, WHICH REQUIRE ELECTRICAL SERVICE.

EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL RACEWAYS.

WALL SWITCHES CONTROLLING CIRCUITS OF OPPOSITE PHASES SHALL NOT BE INSTALLED IN COMMON BOX UNLESS PERMANENT BARRIER IS PROVIDED.

ALL HOME RUNS SHALL RUN PARALLEL TO STRUCTURE AS MUCH AS POSSIBLE WHERE CEILING IS EXPOSED.

ALL RACEWAY AND EQUIPMENT SUPPORTS AND HANGERS SHALL BE FULLY COORDINATED WITH STRUCTURAL DRAWINGS TO INSURE LOCATION OF SAME OCCURS WITHIN FOUR (4) INCHES OF PANEL POINT ON BAR JOISTS.

COORDINATE LOCATION OF ALL FLOOR MOUNTED MECHANICAL AND PLUMBING EQUIPMENT IN ORDER TO VERIFY POWER & CONTROL RACEWAY CONCEALED IN SLABS TERMINATED AT PROPER LOCATION.

DISCONNECT SWITCHES, MOTOR STARTERS AND OTHER ELECTRICAL EQUIPMENT INSTALLED ABOVE ACCESSIBLE CEILINGS, AND REQUIRING ACCESS FOR MAINTENANCE, SHALL BE INSTALLED WITH BOTTOM OF DEVICE ONE (1) FOOT ABOVE CEILING TO PROVIDE READY ACCESSIBILITY.

MECHANICAL, PLUMBING, FIRE PROTECTION AND OTHER EQUIPMENT ARE SHOWN ON FLOOR PLAN IN APPROXIMATE LOCATION. COORDINATE WITH M, P, FP AND CONTRACT DRAWINGS/SUBMITTALS FOR EXACT LOCATION OF EQUIPMENT.

GENERAL DIAGRAMATIC RACEWAY INTERCONNECTIONS OF EQUIPMENT, FIXTURES AND DEVICES ARE INDICATED ON FLOOR AND REFLECTED CEILING PLANS, REFER TO STRUCTURAL AND ARCHITECTURAL PLANS FOR ELEVATION CHANGES AND RACEWAY ROUTES.

RACEWAY FOR EXTERIOR LIGHTING MAY BE INDICATED OUTSIDE OF BUILDING FOOTPRINT FOR CLARITY. ROUTE ALL EXTERIOR LIGHTING RACEWAY WITHIN BUILDING STRUCTURE.

POWER AND COMMUNICATIONS/DATA CONDUITS CAN CROSS AT 90°, BUT WHERE PARALLEL, SHALL BE A MINIMUM OF 8" APART.

TELEVISION AND RADIO ANTENNAS CABLES SHALL HAVE SURGE PROTECTION. GROUND ALL MASTS.

PROVIDE TVSS FOR FIRE ALARM CONTROL PANEL.

FIELD COORDINATE MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL CHARACTERISTICS WITH DIV.15 CONTRACTOR PRIOR TO ROUGH-IN. ADJUST ELECTRICAL CONNECTIONS IF NECESSARY TO MATCH ACTUAL EQUIPMENT IN FIELD. FOR EXAMPLE, COORDINATE THE NAMEPLATE OVERCURRENT PROTECTION DEVICE RATING OF MECHANICAL EQUIPMENT AMONG MECHANICAL AND ELECTRICAL SUBCONTRACTORS. ADJUST CIRCUIT BREAKER TO MATCH NAMEPLATE RATING OF EQUIPMENT AT NO ADDITIONAL COST.

FIELD COORDINATE MECHANICAL AND PLUMBING EQUIPMENT REQUIREMENTS FOR ANY SUPPLEMENTAL POWER REQUIREMENTS, INCLUDING BUT NOT LIMITED TO CONTROL CIRCUITS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BRING ALL EQUIPMENT TO ITS INTENDED OPERATIONAL STATUS.

REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS OF FLOW AND TAMPER SWITCHES.

EACH PENETRATION OF A FIRE RESISTANT RATED ASSYMBLY BY A PIPE, TUBE WIRE OR CONDUIT SHALL BE PROTECTED BY A THROUGH PENETRATION FIRE STOP SYSTEM THAT HAS BEEN TESTED ACCORDING TO ASTME 814 OR E199.

ELECTRIC RECEPTACLES, SWITCHES, OUTLETS, ETC. SHALL NOT BE INSTALLED BACK TO BACK ON FIRE RESISTANCE RATED WALLS. THEY SHALL BE AT LEAST 24-INCHES APART.

LIGHT SWITCHES AND ELECTRICAL OUTLETS, LOCATED IN ROOMS ACCESSIBLE TO THE DISABLED SHALL BE LOCATED NO HIGHER THAN 48 INCHES AND NO LOWER THAN 15 INCHES ABOVE THE FINISHED FLOOR SURFACE. IF THE REACH OR THE CONTROL IS OVER AN OBSTRUCTION, THE MINIMUM HEIGHT SHALL BE REACHED TO 44 INCHES FOR A FORWARD APPROACH OR 46 INCHES FOR A SIDE APPROACH.

REFER TO LOW VOLTAGE CONSULTANT'S DRAWINGS FOR VOICE, DATA AND CATV OUTLET LOCATIONS. REFER TO LV CONSULTANT'S DRAWINGS FOR ANY ADDITIONAL INFORMATION.

CONNECT ALL EXIT SIGNS TO NEAREST UNSWITCHED PORTION OF THE LIGHTING CIRCUIT IN THE AREA.

ELECTRICAL BOXES INSTALLED IN FIRE RATED WALLS SHALL MAINTAIN THE INTEGRITY OF THE RATED WALL.

SUPPORT ALL VERTICAL RACEWAY PER NEC TABLE 300.19(A).

MAKE ELECTRICAL CONNECTIONS TO ELECTRIC WATER COOLERS FROM GFCI PROTECTED OUTLET IN WALL BEHIND COOLER HOUSING. THE OUTLET AND CORD SHALL NOT BE VISIBLE FROM PUBLIC VIEW.

COORDINATE WITH CUTSHEETS OF ALL EQUIPMENT TO BE INSTALLED AND PROVIDE ADDITIONAL CIRCUITS FOR CONTROLS IF REQUIRED BY MANUFACTURER.

FINAL COLOR, FINISH AND OTHER AESTHETIC PORTIONS OF ALL DEVICES SHALL BE COORDINATED WITH ARCHITECT OR OWNER'S REPRESENTATIVE. THIS SET OF DRAWINGS DOES NOT SUPERCEDE ARCHITECTURAL OR INTERIOR DOCUMENTS.

ALL EXPOSED HORIZONTAL RUNS OF CONDUITS SHALL BE EITHER PARALLEL OR PERPENDICULAR TO EXTERIOR WALLS.

PROVIDE PLENUM RATED CABLES IF THE CABLES ARE EXPOSED AND ROUTED THROUGH PLENUM.

FOR ALL FUSES 1200A OR HIGHER, PROVIDE ARC ENERGY REDUCTION PER NEC 240.67.

LEGEND

SYMBOLS	DESCRIPTION	MOUNTING
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	42" AFF OR 6" ABOVE COUNTER TOP
	QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	18" AFF
AC	QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	42" AFF OR 6" ABOVE COUNTER TOP
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	FLUSH WITH FINISHED FLOOR
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	IN CEILING
	SPECIAL RECEPTACLE, CONFIGURATION AND ELECTRICAL CHARACTERISTIC AS NOTED ON DWG	18" AFF
J	JUNCTION BOX FLUSH IN WALL WITH COVER. SIZE PER NEC.	18" AFF
J	JUNCTION BOX FLUSH IN CEILING WITH COVER. SIZE PER NEC.	IN CEILING
J	JUNCTION BOX FLUSH IN FINISHED FLOOR WITH COVER. SIZE PER NEC.	FLUSH WITH FINISHED FLOOR
$	SWITCH	42" AFF
$3	SWITCH - 3 WAY	42" AFF
$OS	SWITCH - WALL MTD, INTEGRAL OCCUPANCY SENSOR	42" AFF
$LV	SWITCH - WALL MTD, LOW VOLTAGE, PILOT LIGHT	42" AFF
$D	SWITCH - WALL MTD, DIMMING	42" AFF
OS	SWITCH - CEILING MOUNTED OCCUPANCY SENSOR	IN CEILING
TV	TV OUTLET	18" AFF
	TELEPHONE OUTLET	18" AFF
	TELEPHONE OUTLET. SUBSCRIPT: F - FIREMAN'S PHONE, H - HOUSE PHONE, P - PAY PHONE	42" AFF OR 6" ABOVE COUNTER TOP
	TELEPHONE / DATA COMBINATION OUTLET	18" AFF
	TELEPHONE / DATA COMBINATION OUTLET	FLUSH WITH FINISHED FLOOR
	TELEPHONE / DATA COMBINATION OUTLET	42" AFF OR 6" ABOVE COUNTER TOP
	DATA OUTLET	18" AFF
	DATA OUTLET	42" AFF OR 6" ABOVE COUNTER TOP
	DISCONNECT SWITCH. SUBSCRIPT: AMP / # OF POLES / ENCLOSURE	AS INDICATED ON DWG
	FUSED DISCONNECT SWITCH. SUBSCRIPT: AMP / # OF POLES / ENCLOSURE / FUSE	AS INDICATED ON DWG
	ELECTRICAL PANELBOARD. REFER TO PANELBOARD SCHEDULE.	SURFACE MOUNTED ON WALL
	EQUIPMENT AS NOTED ON DRAWING.	SURFACE MOUNTED ON WALL
M	MOTOR	
XX-#	HOME RUN WITH WIRE TICKS. XX - PANEL DESIGNATION, # - CIRCUIT DESIGNATION. WIRE TICKS - (1) NEUTRAL, (3) HOT & (1) GROUND.	
D / D	SMOKE DETECTOR. CEILING / WALL MOUNTED	
H / H	HEAT DETECTOR. CEILING/WALL MOUNTED	
	FIRE ALARM NOTIFICATION DEVICE. AUDIO AND VISUAL.	80" AFF
	FIRE ALARM NOTIFICATION DEVICE. AUDIO.	80" AFF
	FIRE ALARM NOTIFICATION DEVICE. VISUAL.	80" AFF
	FIRE ALARM INITIATION DEVICE. PULL STATION.	42" AFF

ABBREVIATIONS

AC	6" ABOVE COUNTER SPACE OR 42" AFF	IG	ISOLATED GROUND
AF	AMP FUSE	ISC	SHORT CIRCUIT CURRENT
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
AL	ALUMINUM	MTD	MOUNTED
BFC	BELOW FINISHED CEILING	N	NEUTRAL
BKR	BREAKER	NL	NIGHT LIGHT
CND	CONDUIT	NEC	NATIONAL ELECTRICAL CODE
CONN	CONNECTED OR CONNECTION	PNL	PANEL
CTB	CABLE TV TERMINAL BACKBOARD	RECPT	RECEPTACLE
CU	COPPER	TEL	TELEPHONE
DN	DOWN	TTB	TELEPHONE TERMINAL BOARD
EC	EMPTY CONDUIT	TV	TELEVISION
ELEC	ELECTRICAL	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
FAA	FIRE ALARM ANNUNCIATOR PANEL	XFMR	TRANSFORMER
G OR GRND	GROUND	UG	UNDERGROUND
GFCI OR GF	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHERPROOF

DATE	RELEASE
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: RK
DRAWN BY: YS

PROFICIENT ENGINEERING
6991 Peachtree Industrial Blvd Building 700
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PROJECT # 120115

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GEORGIA REGISTERED No. PE032227 PROFESSIONAL ENGINEER RON KIGHT

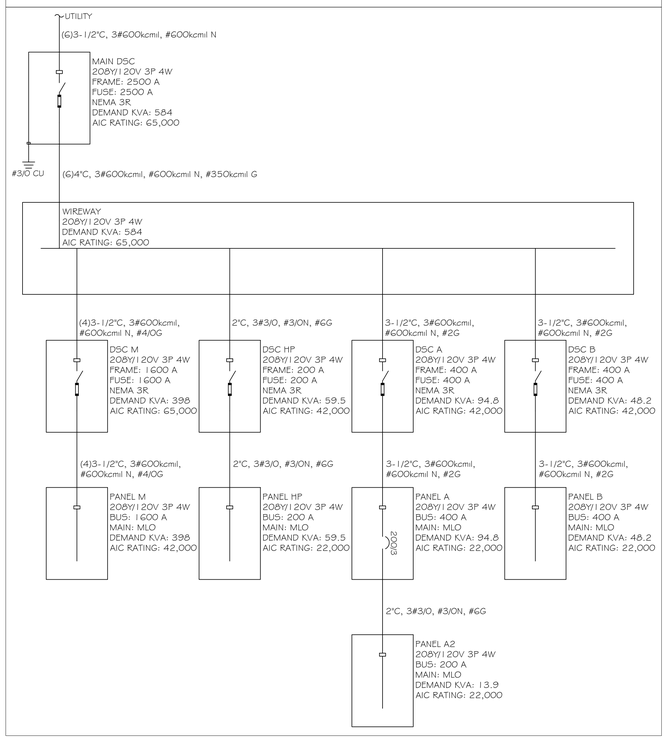
GENERAL

E-0.01

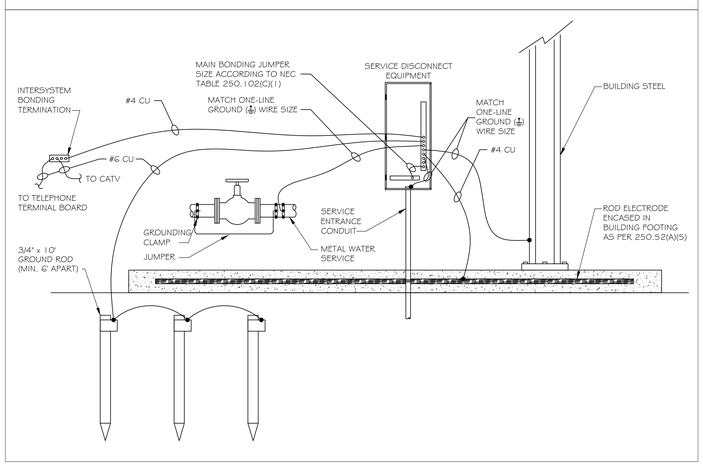
GENERAL SCHEDULE

CALLOUT	SYMBOL	VOLTS	KVA	CIRCUIT	WIRE CALLOUT	DISCONNECT DESCRIPTION
CU-1		208V 3P 4W	43.74	M-7,9,11	1-1/2"C,3#1/0,#1/0N,#6G	200A/3P/NEMA 3R
CU-8		208V 3P 4W	43.74	M-19,21,23	1-1/2"C,3#1/0,#1/0N,#6G	200A/3P/NEMA 3R
E1		208V 3P 4W	43.23	M-2,4,6	1-1/2"C,3#1/0,#1/0N,#6G	200A/3P/NEMA 1/200AF
E-CAB		120V 1P 2W	0.96	M-16	1/2"C,1#12,#12N,#12G	30A/2P/NEMA 1
EDH-1		208V 3P 4W	90	M-25,27,29	3-1/2"C,3#500kcmil,#500kcmil N,#2G	400A/3P/NEMA 1
EDH-2		208V 3P 4W	90	M-31,33,35	3-1/2"C,3#500kcmil,#500kcmil N,#2G	400A/3P/NEMA 1
EF-1		120V 1P 2W	1.66	A-12	1/2"C,1#10,#10N,#10G	SWITCHED WITH LIGHTS
EF-2		120V 1P 2W	1.18	HP-21	1/2"C,1#12,#12N,#12G	PRESSURE SENSING SWITCH
EF-A		120V 1P 2W	0.1	B-2	1/2"C,1#12,#12N,#12G	SWITCHED WITH LIGHTS
EF-A		120V 1P 2W	0.1	B-2	1/2"C,1#12,#12N,#12G	SWITCHED WITH LIGHTS
ESP-1		120V 1P 2W	1.66	M-10	1/2"C,1#12,#12N,#12G	30A/1P/NEMA 1
EWH-1		120V 1P 2W	1.5	HP-17	1/2"C,1#12,#12N,#12G	30A/1P/NEMA 1
FCU-1		208V 3P 4W	29.36	M-1,3,5	1-1/4"C,3#2,#2N,#8G	100A/3P/NEMA 1
FCU-2		208/120V 2P 3W	10.48	A-1,3	3/4"C,2#6,#6N,#10G	60A/2P/NEMA 1
FCU-3		208/120V 2P 3W	10.48	A-9,11	3/4"C,2#6,#6N,#10G	60A/2P/NEMA 1
FCU-4		208/120V 2P 3W	10.98	A-17,19	3/4"C,2#6,#6N,#10G	60A/2P/NEMA 1
FCU-5		208/120V 2P 3W	10.15	A-25,27	3/4"C,2#6,#6N,#10G	60A/2P/NEMA 1
FCU-6		208/120V 2P 3W	5.41	B-1,3	1/2"C,2#10,#10N,#10G	30A/2P/NEMA 1
FCU-7		208V 3P 4W	26.66	HP-2,4,6	1-1/4"C,3#2,#2N,#8G	100A/3P/NEMA 1
FCU-8		208V 3P 4W	29.36	M-13,15,17	1-1/4"C,3#2,#2N,#8G	100A/3P/NEMA 1
HP-2		208/120V 2P 3W	4.06	A-5,7	1/2"C,2#10,#10N,#10G	30A/2P/NEMA 3R
HP-3		208/120V 2P 3W	4.06	A-13,15	1/2"C,2#10,#10N,#10G	30A/2P/NEMA 3R
HP-4		208/120V 2P 3W	5.24	A-21,23	3/4"C,2#8,#8N,#10G	60A/2P/NEMA 3R
HP-5		208/120V 2P 3W	3.52	A-29,31	1/2"C,2#10,#10N,#10G	30A/2P/NEMA 3R
HP-6		208/120V 2P 3W	2.95	B-5,7	1/2"C,2#10,#10N,#10G	30A/2P/NEMA 3R
HP-7		208V 3P 4W	14.05	HP-8,10,12	1"C,3#6,#6N,#10G	60A/3P/NEMA 3R
MFCU-1		208/120V 2P 3W	0.12	HP-9,11	1/2"C,2#12,#12N,#12G	30A/2P/NEMA 1
MHP-1		208/120V 2P 3W	3.43	HP-13,15	1/2"C,2#10,#10N,#10G	30A/2P/NEMA 3R
RP-1		120V 1P 2W	0.4	HP-7	1/2"C,1#12,#12N,#12G	SINGLE POLE SWITCH
WH-1		120V 1P 2W	0.6	HP-1	1/2"C,1#12,#12N,#12G	GAS IGNITER
WH-2		120V 1P 2W	0.6	HP-3	1/2"C,1#12,#12N,#12G	GAS IGNITER

ONE-LINE DIAGRAM



GROUNDING AND BONDING DETAIL



LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	MODEL	VOLTS
A1		(1) 40W LED	MULTIPURPOSE LINEAR	COLUMBIA LIGHTING MPS-8-40-XW- C-W-ED-U	120V 1P 2W
A2		(1) 20W LED	MULTIPURPOSE LINEAR	COLUMBIA LIGHTING MPS-4-40-XW- C-W-ED-U	120V 1P 2W
A3		(1) 13.8W LED	MULTIPURPOSE LINEAR	COLUMBIA LIGHTING MPS-2-40-XW- C-W-ED-U	120V 1P 2W
B		(1) 25.7W LED	MODO TORO LARGE PENDANT	ALW MLPT-D-V-D-30-83-40-51-N-CG-GW- BK-MP	120V 1P 2W
C1		(1) 15W LED	4" ROUND DOWNLIGHT	ALPHABET NU4-RD-5W-13LM-40K-80-NL-120-DIM10-NC-WH-WH	120V 1P 2W
C2		(1) 15W LED	4" ROUND DOWNLIGHT - WET LOCATION	ALPHABET NU4-RD-5W-13LM-40K-80-NL-120-DIM10-NC-WH-WH	120V 1P 2W
D		(1) 19W LED	2x2 LED FLAT PANEL	ORACLE LIGHTING 22-FPL1-LED-2000-DIM10-MVOLT-40K-85	120V 1P 2W
F		(1) 52W LED	LENSED STRIPLIGHT	USE EXISTING. NEW TO MATCH EXISTING.	120V 1P 2W
G		(1) 14W LED	PENDANT LIGHT	AFX INC. ELEPO407L30D25N-12W-780-3000K-3-3/4"X12"	120V 1P 2W
H1		(1) 54W LED	DECORATIVE 3 RING PENDANT	LUMENWERX MP2491-RIMRP-36/48/60-ULO-LED-90-4500/6000/7500-40-UNV-D1-1-RDB-W-WAC-1C-GOIN-W	120V 1P 2W
H2		(1) 72.5W LED	DECORATIVE 3 RING PENDANT	LUMENWERX MP2491-RIMRP-36/48/60-ULO-LED-90-4500/6000/7500-40-UNV-D1-1-RDB-W-WAC-1C-GOIN-W	120V 1P 2W
H3		(1) 90.5W LED	DECORATIVE 3 RING PENDANT	LUMENWERX MP2491-RIMRP-36/48/60-ULO-LED-90-4500/6000/7500-40-UNV-D1-1-RDB-W-WAC-1C-GOIN-W	120V 1P 2W
J		(1) 20W LED	6" LED DOWNLIGHT - WET LOCATION	MAXILUME BY ELITE LIGHTING HH6-LED-1500L-DIM10-120-WD-40K-90-HH6-6501-CL-WH	120V 1P 2W
K		(1) 21W LED	WALL MOUNT GOOSENECK	USE EXISTING	120V 1P 2W
L		(1) 20W LED	WALL MOUNT VAPOR LIGHT	USE EXISTING	120V 1P 2W
M		(1) 25W LED	SIGN LIGHT	BASELITE K2	120V 1P 2W
N		(1) 30W LED	SLENDER WALLPACK	USE EXISTING	120V 1P 2W
P		(1) 87W LED	HIGHBAY	ALPHABET G80PB-CIT-120LM	120V 1P 2W
Q		(1) 60W LED	SIGNAGE LIGHT	LUMENPULSE LOGP-HO-XX-120-48-40K-WAQM18-DIM	120V 1P 2W
54W		(1) 33W LED	4' LED STRIP VAPOR TIGHT	LITHONIA XVML L48 3500LM MVOLT 40K 80CRI	MULTIPLE
T		(2) 1.5W LED	EMERGENCY LIGHTING UNIT	LITHONIA ELM2-LED	120V 1P 2W
XC		(2) 1.5W LED	COMBINATION EXIT/EMERGENCY LIGHTING UNIT	LITHONIA LHQM-LED-R-HO	120V 1P 2W
XR		(1) INCLUDED	REMOTE LAMP HEAD	LITHONIA ELA-QWP-LO309-SD	120V 1P 2W

DATE	RELEASE
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: RK
DRAWN BY: YS

PROFICIENT ENGINEERING
6991 Peachtree Industrial Blvd Building 700
Peachtree Corners, Georgia 30092
404.330.9798
PROJECT # 120115

DRAWINGS FOR:
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GEORGIA REGISTERED No. PE032227 PROFESSIONAL ENGINEER JON KIGHT

SCHEDULES

E-0.02

FAULT CURRENT SCHEDULE

DEVICE	FAULT	AIC RATING	L-N VOLTS	UTILITY			FED FROM				FEEDER					
				FAULT	X	R	DEVICE	FAULT	X	R	SIZE	X / 1000'	R / 1000'	LENGTH	X	R
T1	53,437	100,000	120V	48,299	0.002436	0.0004873										
MAIN DSC	47,240	65,000	120V	42,018	0.002772	0.0006854	T1	48,299	0.002436	0.0004873	(6)#600kcmil	0.0065	0.0038	52'	0.0003	0.0002
WIREWAY	45,905	65,000	120V	40,661	0.002858	0.0007358	MAIN DSC	42,018	0.002772	0.0006854	(6)#600kcmil	0.0065	0.0038	13'	0.0001	0.0001
DSC A	36,998	42,000	120V	33,321	0.003437	0.001077	WIREWAY	40,661	0.002858	0.0007358	#600kcmil	0.039	0.023	15'	0.0006	0.0003
A	17,356	22,000	120V	16,015	0.006831	0.003079	DSC A	33,321	0.003437	0.001077	#600kcmil	0.039	0.023	87'	0.0034	0.002
A2	15,350	22,000	120V	14,297	0.007356	0.004041	A	16,015	0.006831	0.003079	#3/0	0.042	0.077	13'	0.0005	0.001
DSC B	35,792	42,000	120V	32,492	0.003518	0.001125	WIREWAY	40,661	0.002858	0.0007358	#600kcmil	0.039	0.023	17'	0.0007	0.0004
B	16,411	22,000	120V	15,608	0.007	0.003179	DSC B	32,492	0.003518	0.001125	#600kcmil	0.039	0.023	89'	0.0035	0.0021
DSC HP	34,341	42,000	120V	31,204	0.003418	0.001762	WIREWAY	40,661	0.002858	0.0007358	#3/0	0.042	0.077	13'	0.0006	0.001
HP	11,684	22,000	120V	10,923	0.007052	0.008424	DSC HP	31,204	0.003418	0.001762	#3/0	0.042	0.077	87'	0.0036	0.0067
DSC M	44,357	65,000	120V	39,190	0.002957	0.0007942	WIREWAY	40,661	0.002858	0.0007358	(4)#600kcmil	0.0098	0.0058	10'	0.0001	0.0001
M	34,432	42,000	120V	29,648	0.00383	0.001309	DSC M	39,190	0.002957	0.0007942	(4)#600kcmil	0.0098	0.0058	90'	0.0009	0.0005

Panel A

ROOM
MOUNTING RECESSED
FED FROM DSC A
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 400
NEUTRAL 100%

AIC 22,000
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	60/2	10.5	FCU-2	a	2	20/1	0.7	LIGHTING
3	|			b	4	20/1	0.9	LIGHTING
5	30/2	4.1	HP-2	c	6	20/1	0.7	LIGHTING
7	|			a	8	20/1	0.7	LIGHTING
9	60/2	10.5	FCU-3	b	10	20/1	0.6	LIGHTING
11	|			c	12	30/1	2.6	EF-1, LIGHTING
13	30/2	4.1	HP-3	a	14	20/1	1.1	RECEPTACLE, SPEAKER
15	|			b	16	20/1	1.6	RECEPTACLE
17	60/2	11.0	FCU-4	c	18	20/1	1.1	RECEPTACLE, SPEAKER
19	|			a	20	20/1	0.6	CONDENSATE PUMP
21	40/2	5.2	HP-4	b	22	20/1	0.6	WATER COOLER
23	|			c	24	20/1	0.9	RECEPTACLE
25	50/2	10.2	FCU-5	a	26	20/1	1.2	PRINTER
27	|			b	28	20/1	1.2	SOUND CONTROL SYSTEM
29	30/2	3.5	HP-5	c	30	20/1	0.4	RECEPTACLE
31	|			a	32	20/1	1.2	HAIR DRYER
33	20/1	1.0	VENDING MACHINE	b	34	20/1	1.2	MIRROR
35	20/1	1.0	VENDING MACHINE	c	36	20/1	1.2	HAIR DRYER
37	20/1	1.0	VENDING MACHINE	a	38	200/3	13.8	PANEL A2
39	20/1	1.0	VENDING MACHINE	b	40	|		
41	20/1	1.4	RECEPTACLE, SPEAKER	c	42	|		

LUG LOAD: 0.0 KVA ,

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	4.6	5.8	(125%)	RECEPTACLES	22.3	16.2	(50%>10)
LARGEST MOTOR	11.0	2.7	(25%)	CONTINUOUS	1.7	2.1	(125%)
MOTORS	62.0	62.0	(100%)	NONCONTINUOUS	6.1	6.1	(100%)
				TOTAL LOAD		94.8	
				BALANCED 3-PHASE AMPS		263.2	
				PHASE A		104%	
				PHASE B		103%	
				PHASE C		93.5%	

Panel A2

ROOM
MOUNTING RECESSED
FED FROM A
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 200
NEUTRAL 100%

AIC 22,000
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	1.2	HAIR DRYER	a	2	20/1	1.0	WASHER
3	20/1	1.2	MIRROR	b	4	20/1	1.0	WASHER
5	20/1	1.2	HAIR DRYER	c	6	20/3	2.3	DRYER
7	20/1	0.7	RECEPTACLE	a	8	|		
9	20/1	0.6	CONDENSATE PUMP	b	10	|		
11	20/1	0.2	RECEPTACLE	c	12	20/1	0.4	RECEPTACLE
13	20/1	0.7	RECEPTACLE	a	14	20/1	0.4	RECEPTACLE
15	20/1	0.7	RECEPTACLE	b	16	20/1	0.0	SPACE
17	20/1	0.6	CONDENSATE PUMP	c	18	20/1	0.0	SPACE
19	20/1	0.6	CONDENSATE PUMP	a	20	20/1	0.0	SPACE
21	20/1	0.4	RECEPTACLE	b	22	20/1	0.0	SPACE
23	20/1	0.6	CONDENSATE PUMP	c	24	20/1	0.0	SPACE
25	20/1	0.0	SPACE	a	26	20/1	0.0	SPACE
27	20/1	0.0	SPACE	b	28	20/1	0.0	SPACE
29	20/1	0.0	SPACE	c	30	20/1	0.0	SPACE
31	20/1	0.0	SPACE	a	32	20/1	0.0	SPACE
33	20/1	0.0	SPACE	b	34	20/1	0.0	SPACE
35	20/1	0.0	SPACE	c	36	20/1	0.0	SPACE
37	20/1	0.0	SPACE	a	38	20/1	0.0	SPACE
39	20/1	0.0	SPACE	b	40	20/1	0.0	SPACE
41	20/1	0.0	SPACE	c	42	20/1	0.0	SPACE

LUG LOAD: 0.0 KVA ,

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LARGEST MOTOR	0.6	0.2	(25%)	RECEPTACLES	7.0	7.0	(50%>10)
MOTORS	2.4	2.4	(100%)	NONCONTINUOUS	4.3	4.3	(100%)
				TOTAL LOAD		13.9	
				BALANCED 3-PHASE AMPS		38.6	
				PHASE A		117%	
				PHASE B		102%	
				PHASE C		81.1%	

Panel B

ROOM
MOUNTING RECESSED
FED FROM DSC B
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 400
NEUTRAL 100%

AIC 22,000
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	30/2	5.4	FCU-6	a	2	20/1	1.3	EF-A, LIGHTING
3	|			b	4	20/1	1.3	LIGHTING
5	25/2	3.0	HP-6	c	6	20/1	1.2	LIGHTING
7	|			a	8	20/1	1.3	LIGHTING
9	20/1	1.1	RECEPTACLE, SPEAKER	b	10	20/1	0.7	RECEPTACLE
11	20/1	1.1	RECEPTACLE, SPEAKER	c	12	20/1	1.5	FITNESS EQUIPMENT
13	20/1	1.6	RECEPTACLE, SPEAKER	a	14	20/1	1.5	FITNESS EQUIPMENT
15	20/1	1.3	RECEPTACLE	b	16	20/1	1.5	FITNESS EQUIPMENT
17	20/1	0.5	RECEPTACLE	c	18	20/1	1.5	FITNESS EQUIPMENT
19	20/1	0.5	RECEPTACLE	a	20	20/1	1.5	FITNESS EQUIPMENT
21	20/1	1.2	MICROWAVE	b	22	20/1	1.5	FITNESS EQUIPMENT
23	20/1	1.2	COFFEE	c	24	20/1	1.5	FITNESS EQUIPMENT
25	20/1	1.2	REFRIGERATOR	a	26	20/1	1.5	FITNESS EQUIPMENT
27	20/1	0.6	CONDENSATE PUMP	b	28	20/1	1.3	RECEPTACLE
29	20/1	0.9	RECEPTACLE, SPEAKER	c	30	20/1	1.1	RECEPTACLE
31	20/1	1.1	RECEPTACLE, SPEAKER	a	32	20/1	0.7	RECEPTACLE
33	20/1	0.7	RECEPTACLE, SPEAKER	b	34	20/1	0.7	RECEPTACLE
35	20/1	1.5	FITNESS EQUIPMENT	c	36	20/1	0.6	CONDENSATE PUMP
37	20/1	1.5	FITNESS EQUIPMENT	a	38	20/1	0.0	SPACE
39	20/1	0.6	CONDENSATE PUMP	b	40	20/1	0.0	SPACE
41	20/1	0.6	WATER COOLER	c	42	20/1	0.0	SPACE

LUG LOAD: 0.0 KVA ,

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	4.9	6.2	(125%)	RECEPTACLES	14.5	12.3	(50%>10)
LARGEST MOTOR	5.4	1.4	(25%)	KITCHEN EQUIPMENT	1.2	1.2	(100%)
MOTORS	10.2	10.2	(100%)	CONTINUOUS	0.2	0.3	(125%)
				NONCONTINUOUS	16.8	16.8	(100%)
				TOTAL LOAD		48.2	
				BALANCED 3-PHASE AMPS		133.8	
				PHASE A		112%	
				PHASE B		95.6%	
				PHASE C		92.2%	

Panel M

ROOM
MOUNTING SURFACE
FED FROM DSC M
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 1600
NEUTRAL 100%

AIC 42,000
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	90/3	29.4	FCU-1	a	2	150/3	43.2	ELEVATOR 1
3	|			b	4	|		
5	|			c	6	|		
7	150/3	43.7	CU-1	a	8	-/1	0.0	SHUNT TRIP
9	|			b	10	20/1	1.7	ESP-1
11	|			c	12	20/1	1.2	ELEVATOR RECEPT
13	90/3	29.4	FCU-8	a	14	20/1	1.2	ELEVATOR LIGHTING
15	|			b	16	20/1	1.0	E-CAB
17	|			c	18	-/1	0.0	SHUNT TRIP
19	150/3	43.7	CU-8	a	20	20/1	0.0	SPACE
21	|			b	22	20/1	0.0	SPACE
23	|			c	24	20/1	0.0	SPACE
25	350/3	90.0	EDH-1	a	26	20/1	0.0	SPACE
27	|			b	28	20/1	0.0	SPACE
29	|			c	30	20/1	0.0	SPACE
31	350/3	90.0	EDH-2	a	32	20/1	0.0	SPACE
33	|			b	34	20/1	0.0	SPACE
35	|			c	36	20/1	0.0	SPACE
37	20/1	0.0	SPACE	a	38	20/1	0.0	SPACE
39	20/1	0.0	SPACE	b	40	20/1	0.0	SPACE
41	20/1	0.0	SPACE	c	42	20/1	0.0	SPACE

LUG LOAD: 0.0 KVA ,

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	1.2	1.5	(125%)	MOTORS	370.4	370.4	(100%)
LARGEST MOTOR	90.0	22.5	(25%)	RECEPTACLES	1.2	1.2	(50%>10)
				CONTINUOUS	1.7	2.1	(125%)
				TOTAL LOAD		397.7	
				BALANCED 3-PHASE AMPS		1,103.8	
				PHASE A		99.6%	
				PHASE B		101%	
				PHASE C		99.6%	

Panel HP

ROOM
MOUNTING SURFACE
FED FROM DSC HP
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 200
NEUTRAL 100%

AIC 22,000
MAIN BKR MLO
LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.6	WH-1	a	2	80/3	26.7	FCU-7
3	20/1	0.6	WH-2	b	4	|		
5	20/1	1.2	SIGNAGE	c	6	|		
7	20/1	0.4	RP-1	a	8	60/3	14.1	HP-7
9	15/2	0.1	MFCU-1	b	10	|		
11	|			c	12	|		
13	25/2	3.4	MHP-1	a	14	20/1	0.3	LIGHTING
15	|			b	16	20/1	0.4	LIGHTING
17	20/1	1.5	EWH-1	c	18	20/1	0.4	LIGHTING
19	20/1	0.4	RECEPTACLE	a	20	20/1	0.1	LIGHTING
21	20/1	1.2	EF-2	b	22	20/1	0.1	LIGHTING
23	20/1	0.0	SPACE	c	24	20/1	0.1	LIGHTING
25	20/1	0.0	SPACE	a	26	20/1	0.1	LIGHTING
27	20/1	0.0	SPACE	b	28	20/1	0.0	SPACE
29	20/1	0.0	SPACE	c	30	20/1	0.0	SPACE
31	20/1	0.0	SPACE	a	32	20/1	0.0	SPACE
33	20/1	0.0	SPACE	b	34	20/1	0.0	SPACE
35	20/1	0.0	SPACE	c	36	20/1	0.0	SPACE
37	20/1	0.0	SPACE	a	38	20/1	0.0	SPACE
39	20/1	0.0	SPACE	b	40	20/1	0.0	SPACE
41	20/1	0.0	SPACE	c	42	20/1	0.0	SPACE

LUG LOAD: 0.0 KVA ,

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	2.6	3.2	(125%)	MOTORS	45.8	45.8	(100%)
LARGEST MOTOR	26.7	6.7	(25%)	RECEPTACLES	0.4	0.4	(50%>10)
				CONTINUOUS	2.8	3.5	(125%)
				TOTAL LOAD		59.5	
				BALANCED 3-PHASE AMPS		165.1	
				PHASE A		99.6%	
				PHASE B		103%	
				PHASE C		97.7%	

DATE	RELEASE
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: RK
DRAWN BY: YS

PROFICIENT ENGINEERING
6991 Peachtree Industrial Blvd Building 700
Peachtree Corners, Georgia 30092
404.330.9798
PROJECT # 120115

DRAWINGS FOR:
OWNER
309 East Paces Ferry Road
Suite 825
Atlanta, GA 30305

THE FORUM
ATHLETIC
CLUB

AKA STUDIO, PC
Architects & Interiors
74 WOODSTOCK ROAD,
ROSWELL, GA. 30075
(770) 642-9030 info@akastudiopc.com

GEORGIA REGISTERED No. PE032227 PROFESSIONAL ENGINEER RON KIGHT

PANEL SCHEDULES

E-0.03

COMcheck Software Version 4.1.2.0

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: The Forum Athletic Club
Project Type: New Construction

Construction Site:
309 East Paces Ferry Road
Suite 825
Atlanta, GA 30305

Owner/Agent:

Designer/Contractor:
AKA Studio, PC Architects & Interiors
74 Woodstock Road
Roswell, GA 30075

Additional Efficiency Package(s)

High efficiency HVAC. Systems that do not meet the performance requirement will be identified in the mechanical requirements checklist report.

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Gymnasium/Fitness Center:Exercise Area	23000	0.72	16560
		Total Allowed Watts =	16560

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Gymnasium/Fitness Center:Exercise Area				
LED: A1: MULTIPURPOSE LINEAR: Other:	1	158	40	6320
LED: A2: MULTIPURPOSE LINEAR: Other:	1	19	20	380
LED: A3: MULTIPURPOSE LINEAR: Other:	1	9	14	124
LED: B: MODO TORO LARGE PENDANT: Other:	1	22	26	565
LED: C1: 4" ROUND DOWNLIGHT: Other:	1	29	15	435
LED: C2: 4" ROUND DOWNLIGHT - WET LOCATI: Other:	1	17	15	255
LED: D: 2x2 LED FLAT PANEL: Other:	1	21	19	399
LED: F: LENSED STRIPLIGHT: Other:	1	9	52	468
LED: G: PENDANT LIGHT: Other:	1	4	14	56
LED: H1: DECORATIVE 3 RING PENDANT: Other:	1	2	54	108
LED: H2: DECORATIVE 3 RING PENDANT: Other:	1	2	72	145
LED: H3: DECORATIVE 3 RING PENDANT: Other:	1	2	90	181
LED: P: HIGHBAY: Other:	1	44	87	3828
LED: S4W: 4' LED STRIP VAPOR TIGHT: Other:	1	1	33	33
			Total Proposed Watts =	13298

Interior Lighting PASSES: Design 20% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.2.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Ron Kight — Name - Title
Signature
05/01/2020 — Date

COMcheck Software Version 4.1.2.0

Inspection Checklist

Energy Code: 2015 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15][1]	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1 [EL18][1]	Occupancy sensors installed in required spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1, C405.2.2.3 [EL23][2]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.2.1 [EL22][2]	Automatic controls to shut off all building lighting installed in all buildings.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Lighting controlled by occupancy sensors.
C405.2.3 [EL16][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.3, C405.2.3.1, C405.2.3.2 [EL20][3]	Primary sidelighted areas are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.3, C405.2.3.1, C405.2.3.3 [EL21][3]	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.4 [EL4][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.4 [EL8][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][1]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.4.1 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
C408.2.5.1 [FI16][1]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

DATE	RELEASE
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: RK
DRAWN BY: YS

PROFICIENT ENGINEERING
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404.330.9798
PROJECT # 120115

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OWNER
309 East Paces Ferry Road
Suite 825
Atlanta, GA 30305

THE FORUM ATHLETIC CLUB

AKA STUDIO, PC
Architects & Interiors
74 WOODSTOCK ROAD,
ROSWELL, GA. 30075
(770) 642-9030 info@akastudiopc.com

GEORGIA REGISTERED No. PE032227 PROFESSIONAL ENGINEER RON KIGHT

COMPLIANCE REPORT

E-0.04

GENERAL NOTES

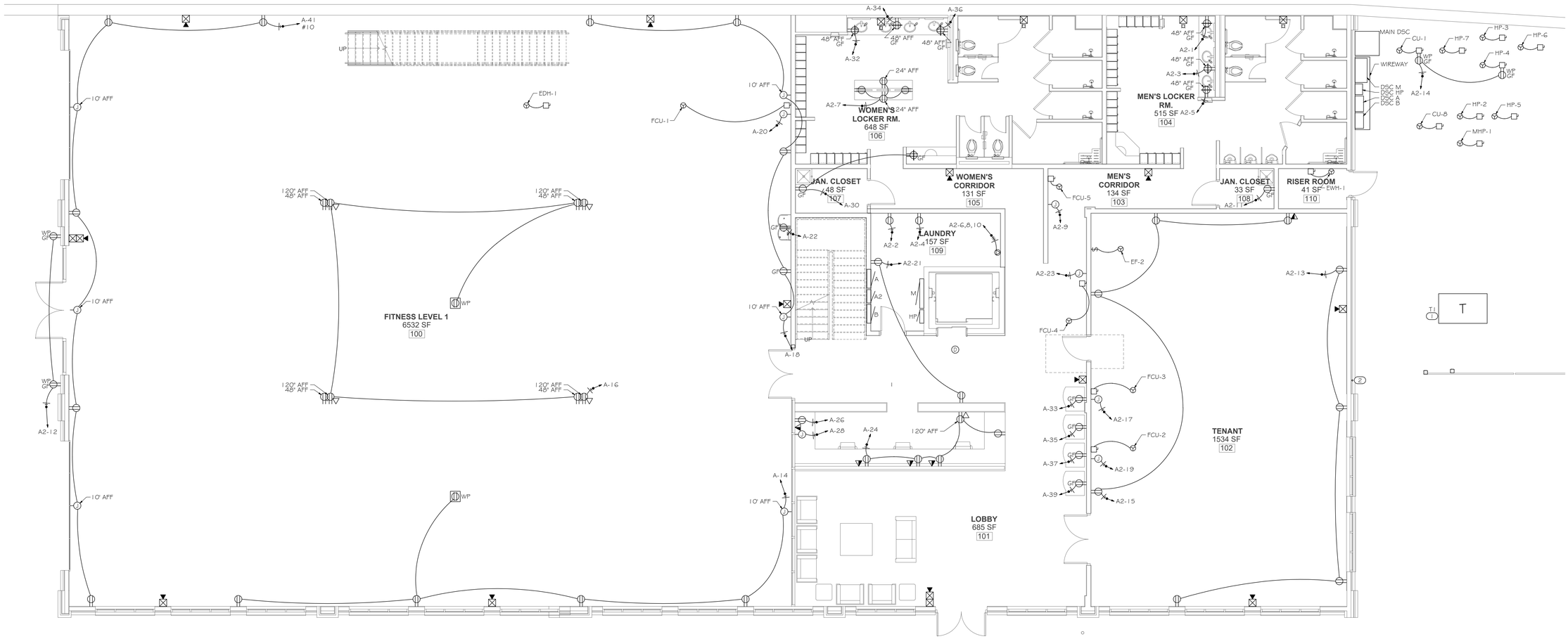
REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.

ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY ARTICLE 250-146.

KEYNOTES

(1) COORDINATE EXACT LOCATION OF UTILITY TRANSFORMERS ON UTILITY PAD.

(2) PROVIDE (2) 2"C FROM TELECOM/IT PULL BOX TO AREA ADJACENT TO ELECTRICAL PANELS IN LAUNDRY ROOM V/F & COORDINATE WITH CIVIL.



1 1ST FLOOR PLAN - POWER
E-1.01 3/16" = 1'-0"

DATE	RELEASE
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: RK
DRAWN BY: YS

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1ST FLOOR PLAN - POWER

E-1.01

GENERAL NOTES

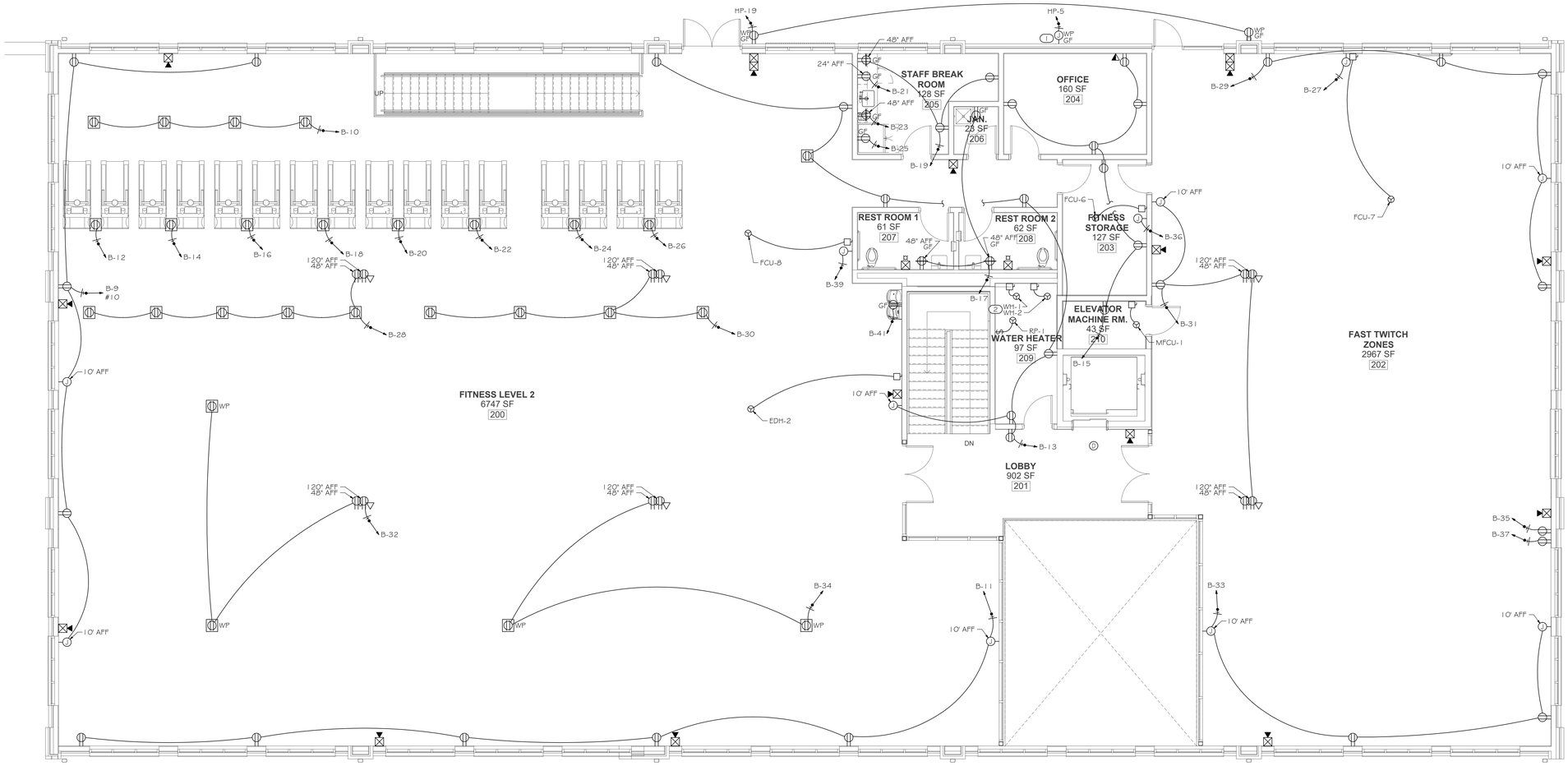
REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.

ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY ARTICLE 250-146.

KEYNOTES

(1) WEATHERPROOF J-BOX FOR EXTERIOR SIGN. COORDINATE IN FIELD WITH SIGN INSTALLER FOR LOCATION AND OTHER REQUIREMENTS. EXTERIOR SIGN TO BE CONTROLLED BY LIGHTING CONTACTOR WITH PHOTOCELL AND TIMER.

(2) WATER HEATER. SEE PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.



2ND FLOOR PLAN - POWER
E-1.02 3/16" = 1'-0"

DATE	RELEASE
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: RK
DRAWN BY: YS

PROFICIENT
ENGINEERING
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GEORGIA REGISTERED No. PE032227 PROFESSIONAL ENGINEER RON KIGHT

2ND FLOOR PLAN - POWER

E-1.02

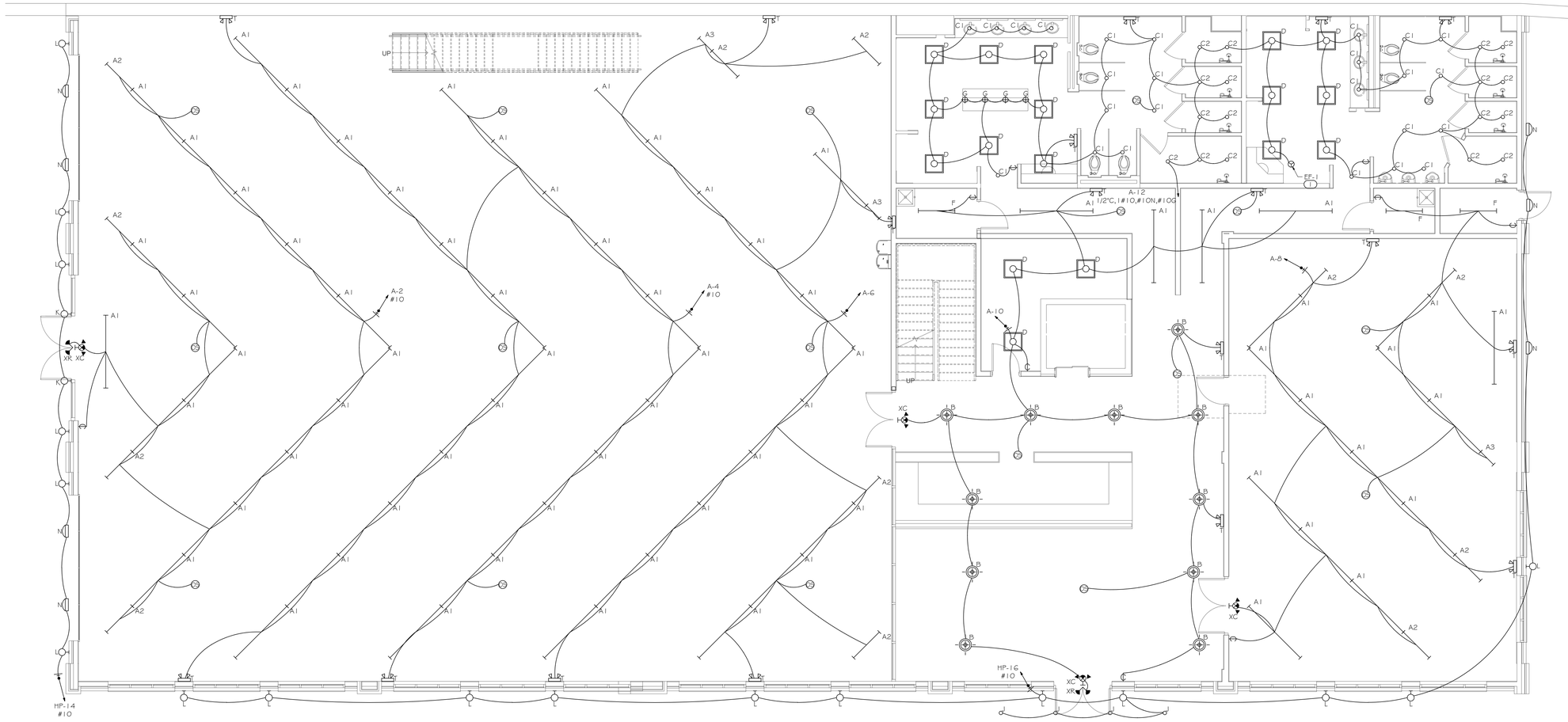
GENERAL NOTES

REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.

PROVIDE UNSWITCHED HOT LEG OF CIRCUIT TO EMERGENCY LIGHTING AND EXIT SIGNS.

KEYNOTES

(1) EXHAUST FAN TO BE CONTROLLED WITH LIGHT SWITCH.



1 1ST FLOOR PLAN - LIGHTING
E-2.01 3/16" = 1'-0"

DATE	RELEASE
04.30.20	FOR CONSTRUCTION
05.06.20	FOR PRICING

CHECKED BY: RK
DRAWN BY: YS

PROFICIENT
ENGINEERING
6991 Peachtree Industrial Blvd Building 700
Peachtree Corners, Georgia 30092
404.330.9798
PROJECT # 120115

DRAWINGS FOR:
OWNER
309 East Paces Ferry Road
Suite 825
Atlanta, GA 30305

THE FORUM
ATHLETIC
CLUB

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(770) 642-9030 info@akastudiopc.com

GEORGIA REGISTERED No. PE032227 PROFESSIONAL ENGINEER IRON KIGHT

1ST FLOOR PLAN - LIGHTING

E-2.01

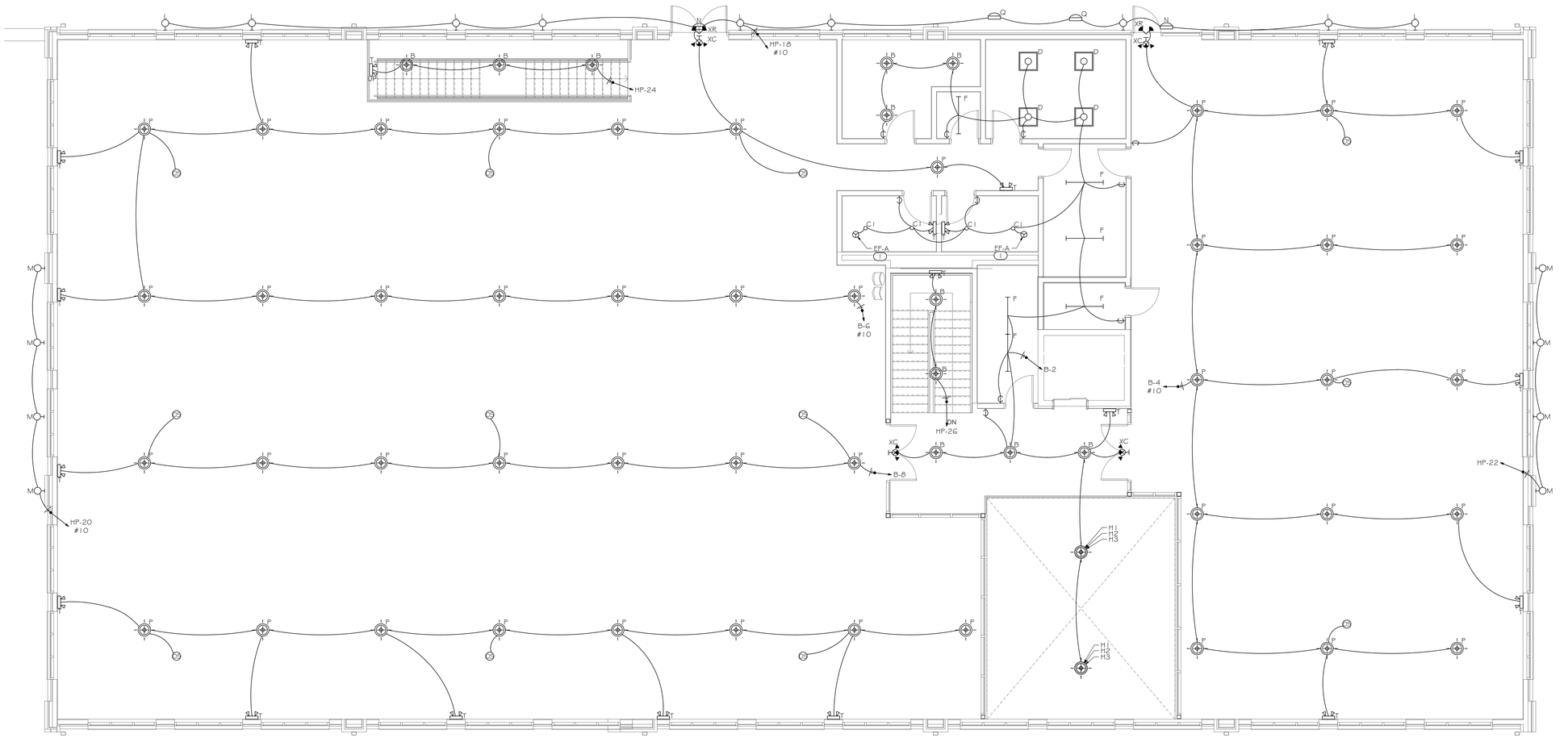
GENERAL NOTES

REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.

PROVIDE UNSWITCHED HOT LEG OF CIRCUIT TO EMERGENCY LIGHTING AND EXIT SIGNS.

KEYNOTES

(1) EXHAUST FAN TO BE CONTROLLED WITH LIGHT SWITCH.



2ND FLOOR PLAN - LIGHTING
E-2.02 3/16" = 1'-0"

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05.06.20	FOR PRICING

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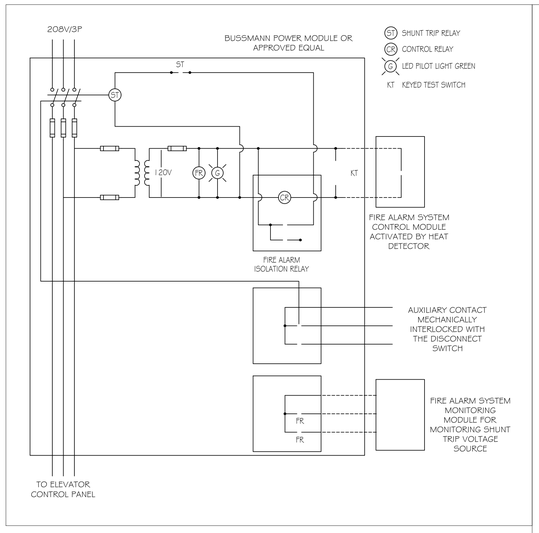
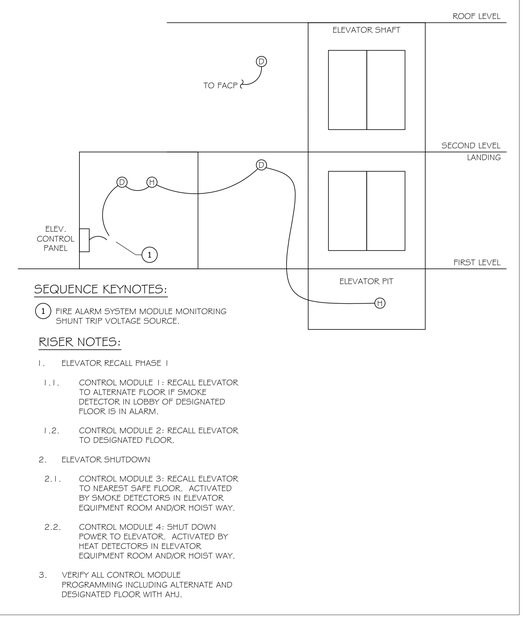
2ND FLOOR PLAN - LIGHTING

E-2.02





ELEVATOR GENERAL NOTES

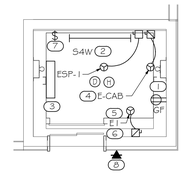
ALL ELECTRICAL DEVICES, FOR THEIR SIZES AND LOCATIONS, ASSOCIATED WITH ELEVATOR EQUIPMENT SHALL BE COORDINATED WITH ELEVATOR MANUFACTURER PRIOR TO INSTALLATION.

CONTRACTOR SHALL PROVIDE ALL LIGHTS, DISCONNECTS AND CONNECTIONS AS REQUIRED BY ELEVATOR MANUFACTURER FOR ELEVATOR EQUIPMENT INSTALLATION.

CONTRACTOR SHALL COORDINATE ALL FINAL VOLTAGE, AMPACITY AND PHASE REQUIREMENTS WITH THE ELEVATOR MANUFACTURER.

ELEVATOR KEYNOTES

1. GFCI DUPLEX RECEPTACLE. PROVIDE ONE AT THE PIT AND ANOTHER AT THE TOP OF THE SHAFT.
2. LIGHTING SHALL NOT BE CONNECTED TO LOAD SIDE OF GFCI RECEPTACLE. PROVIDE LIGHTING FIXTURES AT THE PIT AND AT THE TOP OF THE SHAFT. MINIMUM LIGHT LEVEL SHALL BE 20FC.
3. ELEVATOR CONTROL PANEL
4. 30A/1 P/NEMA 1 DISCONNECT SWITCH WITH 20 AMP FUSE FOR ELEVATOR CAB LIGHTING AND FAN.
5. 3P, 208VAC ELEVATOR MOTOR FOR THYSSENKRUPP ELEVATOR. COORDINATE WITH ELEVATOR MANUFACTURER FOR EXACT MODEL AND FINAL RECOMMENDED FUSE SIZE. COORDINATE EXACT LOCATION IN FIELD.
6. 200A/3P/NEMA 4X EQUIPMENT SHUNT TRIP DISCONNECT SWITCH AND 150 AMP FUSE FOR ELEVATOR MOTOR. BUSMANN POWER MODULE OR APPROVED EQUAL. COORDINATE WITH ELEVATOR MANUFACTURER FOR FINAL RECOMMENDED FUSE SIZE.
7. PROVIDE LIGHT SWITCHES AT PIT LEVEL AND AT TOP OF THE SHAFT. EACH SWITCH SHALL CONTROL EACH RESPECTIVE LIGHT FIXTURE.
8. TWO WAY COMMUNICATION AT EACH LANDING.



1/E-3.01 ENLARGED ELEVATOR PLAN
1/4" = 1'-0"

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05.06.20	FOR PRICING

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DRAWN BY: YS

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ENLARGED ELEVATOR PLAN

E-3.01