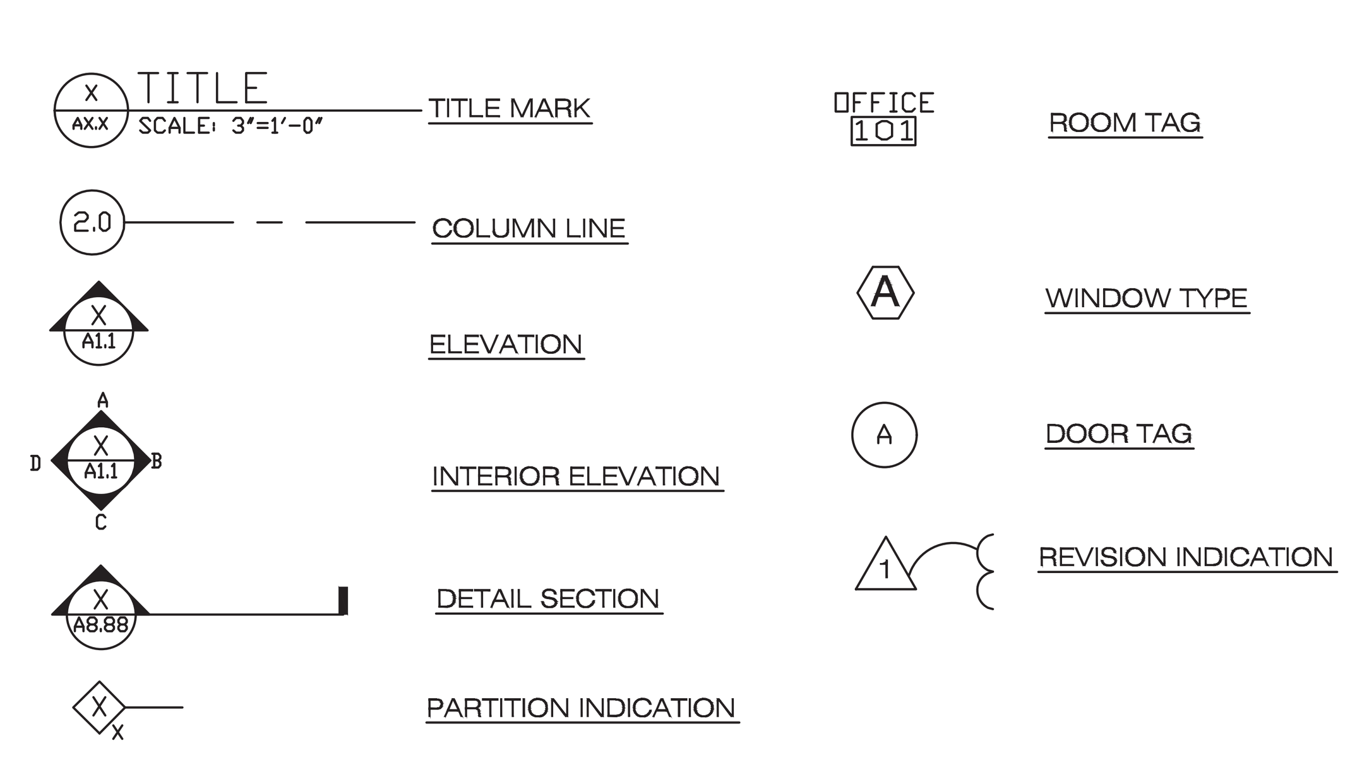
DRAWING ABBREVIATIONS

AC	ACOUSTIC	FE	FIRE EXTINGUISHER
ADJ	ADJUSTABLE	FEC	FIRE EXTINGUISHER CABINET
AFF	ABOVE FINISH FLOOR	GWB	GYPSUM WALL BOARD
AL	ALUMINUM	GYP	GYPSUM
ALT	ALTERNATE	HDR	HEADER
APPROX.	APPROXIMATE	HDWD	HARDWOOD
ARCH	ARCHITECTURAL	HDWR	HARDWARE
BLDG	BUILDING	HM	HOLLOW METAL
BLKG	BLOCKING	HORIZ	HORIZONTAL
CEM	CEMENT	HVAC	HEATING, VENTILATING & AIR CONDITIONING
CER	CERAMIC	INSUL	INSULATION
CL	CENTERLINE	INT	INTERIOR
CMU	CONCRETE MASONRY UNIT	KIT	KITCHEN
CONT	CONTINUOUS	LAM	LAMINATED
DIA	DIAMETER	LAV	LAVATORY
DIM	DIMENSION	P LAM	PLASTIC LAMINATE
EXT	EXTERIOR	SPEC	SPECIFICATION
EXST	EXISTING	TYP.	TYPICAL
FD	FLOOR DRAIN	V.I.F.	VERIFY IN FIELD

DRAWING SYMBOLS



CONSTRUCTION NOTES:

1. ALL DIMENSIONS ARE FROM SUBSTRATE.
2. DO NOT SCALE DRAWINGS.
3. NOTIFY ARCHRTECT OF ANY DISCREPANCIES WITHIN THE DRAWINGS PRIOR TO PROCEEDING WRTH CONSTRUCTION.
4. ALL WORK SHALL COMPLY WUH APPLICABLE STATE, FEDERAL AND LOCAL CODES AND ALL NECESSARY UCENSESAND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR UNLESS PREVIOUSLY OBTAINED BY THE OWNER.
5. UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL BE OF NOMINAL WEIGHT AND HAVE A MIN. 20 DAY STRENGTH OF 3000 PSI.
6. REINFORCING STEEL SHALL CONFORM TO ASTMB15, GRADE 60.
7. ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT.
8. ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.
9. HVAC COMPRESSOR SHALL HAVE EXTENDED 5-YEAR MANUFACTURERS WARRANTY,
10. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL CONDITIONS.
11 MOUNT THERMOSTAT AND SENSORS 4'-0" A.F.F.
12. SANFARY AND DRAINAGE PIPING SHALL BE SLOPED AT 1/4' PER FOOT.
13. ALL BATHROOM FIXTURES AND VALVES SHALL BE PROVIDED W/ADDMONAL BLOCKING AS REQUIRED TO RIGIDLY SECURE TO ADJACENT STRUCTURE.
14. **ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A MINIMUM OF ONE YEAR AFTER FINAL ACCEPTANCE.**
15. **ALL WORK SHALL BE PERFORMED IN A FINISHED WORKMANLIKE MANNER TO THE ENTIRE SATISFACTION OF THE OWNER, AND IN ACCORDANCE WFTH THE CONTRACT DOCUMENTS AND THE BEST RECOGNIZED TRADE PRACTICES.**
16. **ALL WORK SHALL BE COORDINATED WTTH ALL TRADE DISCIPUNES TO ENSURE PROPER EXECUTION OF THE WORK.**
17. **UNLESS NOTED OTHERWISE, DOORS ARE LOCATED4" FROM FINISHED FACE OF THE WALL ADJACENT TO THE HINGE JAMB,**
18. **CONTRACTOR TO PROVIDE ONE SET OF AS-BUILT DRAWINGS TO THE OWNER.**
19. **INSTALL CONTINUOUS BLOCKING BETWEEN STUDS FOR ALL HANDRAILS, GRAB BARS, ACCESSORIES, FIXTURES, BRACKETS, HUNG CABINETWORK AND MISC. SPECIALTIES UNLESS OTHERWISE NOTED.**
20. **ALL PIPE, DUCT, ETC., IN FINISH AREAS SHALL BE CONTAINED WITHIN WALLS OR FURRING UNLESS OTHERWISE NOTED.**
21 **ANY WOOD IN CONTACT WITH CONCRETE, MASONRY OR SOIL, SHALL BE PRESSURE TREATED.**
22. **WHERE CONNECTIONS ARE NOT SHOWN ON THE DRAWING, COMPLY WITH NAILING SCHEDULE IN THE BUILDING CODE.**
23. **ALL NAILS AT NON-AIRCONDMQNED/HEATED AREAS SHALL BE GALVANIZED.**
24. **ALL INTERIOR FINISHES, SMOKE DEVELOPMENT, FLAME SPREAD RATINGS, ETC. SHALL COMPLY WTTH 2MB INTERNATIONAL BUILDING CODE CHAPTER 8.**
25. **TENANT IS RESPONSIBLE FOR ADA LIFE SAFETY COMPLIANCE.**

BEFORE YOU DIG CALL
UTILITY PROTECTION CENTER
1-800-282-7411

Note:
Location of all Underground Utilities is approximate, Therefore it is the responsibility of the contractor working on the site to contact the utility companies for field location of their utility prior to beginning any construction.

ADDITION ELEVATION

BUILDING CODE REFERENCE

GEORGIA STATE MINIMUM STANDARD CODES:
INTERNATIONAL BUILDING CODE, 2018 EDITION WITH GEORGIA STATE AMENDMENTS-
INTERNATIONAL MECHANICAL CODE, 2018 EDITION WITH GEORGIA STATE AMENDMENTS
INTERNATIONAL PLUMBING CODE, 2018 EDITION WITH GEORGIA STATE AMENDMENTS
INTERNATIONAL FUEL GAS CODE, 2018 EDITION WITH GEORGIA STATE AMENDMENTS
NFPA NATIONAL ELECTRICAL CODE, 2017 EDITION
INTERNATIONAL ENERGY CONSERVATION CODE, LATEST EDITION WITH GEORGIA STATE AMENDMENTS
INTERNATIONAL RESIDENTIAL CODE FOR ONE & TWO FAMILY DWELLINGS GEORGIA STATE AMENDMENTS
AND IBC APPENDIX "F"

BUILDING TYPE
CONSTRUCTION TYPE "V-A"
TOTAL SF = 12000sf
EXISTING MATERIALS OF CONSTRUCTION

ROOF - WOOD TRUSSES W/TYPE "A" ROOF
INTERIOR WALLS - WOOD STUDS & GYPBD
EXTERIOR WALLS - WOOD STUDS , STONE, STOREFRONT & STUCCO
FLOOR - SLAB ON GRADE
NON SPRINKLED
FIRE ALARM SYSTEM - NO

OCCUPANCY DATA

FUNCTION	AREA* SF	PERSON SF	PERSONS	FACTOR	MIN EXIT REQ'D INCHES	EXIT AVAILABLE INCHES
FIRST FLOOR						
MERCANTILE	6000	30	200.00	0.2	40.00	72
SECOND FLOOR						
OFFICE	6000	150	40.00	0.2	8.00	36

* LARGEST SINGLE FOOR AREA

NOTE: ANY POTENTIAL RESTAURANT LEASE OVER 600sf SHALL HAVE A FLOOR FIRE RATING OF 2hrs.

RETAIL/OFFICE ADDTION

SHELL STATION

6405B PEACHTREE IND.

PEACHTREE CORNERS, GA 30092

SMOKING:

"A SIGN CLEARLY STATING THAT SMOKING IS PROHIBITED SHALL BE CONSPICUOUSLY POSTED BY THE BUILDING OWNER, OPERATOR, MANAGER, OR OTHER PERSON IN CONTROL IN EVERY PUBLIC PLACE AND PLACE OF EMPLOYMENT. NO SMOKING SIGNS OR THE INTERNATIONAL 'NO SMOKING' SYMBOL CONSISTING OF A PICTORAL REPRESENTATION OF A BURNING CIGARETTE ENCLOSED IN A RED CIRCLE WITH A RED BAR ACROSS IT SHALL BE POSTED."

(THE GWINNETT COUNTY CLEAN INDOOR AIR ORDINANCE, SECTION 42-129)

SIGNAGE:

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

(CONTACT DEVELOPMENT REVIEW AT 678-518-6000 FOR ADDITIONAL INFORMATION)

FIRE DEPARTMENT NOTES:

THE FOLLOWING CODE SHALL BE FOLLOWED: 2012 GWINNETT COUNTY ORDINANCE FOR FIRE PROTECTION AND LIFE SAFETY, THE CURRENT EDITION OF THE NFPA CODES AND STANDARDS AS ADOPTED AND MODIFIED BY THE STATE FIRE MARSHAL, NFPA 101 LIFE SAFETY CODE 2012 EDITION, INTERNATIONAL FIRE CODE 2012 EDITION, OCGA TITLES 25 AND 30 GEORGIA ACCESSIBILITY CODE, 2010 ADA STANDARDS.

CONTACT THE GWINNETT COUNTY FIRE MARSHAL'S (INSPECTION REQUEST LINE) AT (678) 518-6277 FOR INSPECTIONS AT (80%) AND (100%) COMPLETION.--NOTE: (80%) -INSPECTION-OF-ANY-FIRE RATED-BARRIERS,--FLOOR-OR CEILING: (100%) = FINAL INSPECTION: ALL SYSTEMS, EQUIPMENT INSTALLED AND OPERATING, READY FOR OCCUPANCY. THE INSPECTION REQUEST MUST BE PHONED IN BEFORE 2:00PM THE DAY PRIOR TO THE DATE THE INSPECTION IS NEEDED.(EMERGENCY LIGHTING) COMPLYING WITH NFPA 101 LIFE SAFETY CODE, CHAPTER 7, SEC. 7.9, 2000 EDITION, SHALL BE INSTALLED. ADDITIONAL EMERGENCY LIGHTING MAY BE REQUIRED UPON FIELD INSPECTION.(SHALL PROVIDE ON PLANS)FLUSH EXISTING FIRE HYDRANTS (2) NEAR SITE BEFORE STARTING CONSTRUCTION.

2012 GWINNETT COUNTY ORDINANCE FOR FIRE PREVENTION AND PROTECTION ORDINANCE(INCLUDE CODE YEAR)
2020 OCGA 120-3-3 GEORGIA MINIMUM FIRE SAFETY STANDARDS
2018 INTERNATIONAL FIRE CODE(AMENDED BY 120-3-3)
NFPA 101 LIFE SAFETY CODE 2018 EDITION.(AMENDED BY 120-3-3)
2010 ADA STANDARD FOR ACCESSIBLE DESIGN.
NOTE: GWINNETT COUNTY FIRE MARSHAL INSPECTION ARE TO BE SCHEDULED ONLINE AT:
HTTPS://EDDSPERMITS.GWINNETTCOUNTY.COM/CITIZENACCESS/
-50%=INSPECTIONS OF VERTICAL PENETRATIONS
-80%=INSPECTIONS OF ANY FIRE RATED PARTITIONS,FLOOR OR CEILING,CEILING COVER UP.
-100%=FINAL INSPECTIONS,ALL SYSTEM AND EQUIPMENT ARE INSTALLED AND OPERATIONAL,
ANY INSPECTION REQUESTS MADE AFTER 2:00PM WILL BE SCHEDULED FOR THE NEXT BUSINESS DAY.

SEPARATE SUBMITTALS AND REVIEWS BY FIRE PLAN REVIEW FOR:
-FIRE SPRINKLER
-FIRE ALARM SYSTEMS
-KITCHEN HOODS
-FIRE SUPPRESSION SYSTEMS
-RACK STORAGE(PRODUCT HEIGHT OVER 12 FEET)
-STORAGE AND/OR USE OF HAZARDOUS MATERIALS

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Sep 02, 2020
AUTHORIZED

LOCATION MAP

DRAWING LIST

A-000A PROJECT COVER SHEET
A-000 GWINNETT FIRE APPROVAL
A-006 FIRST FLR LIFE SAFETY PLAN
A-007 2nd FLR LIFE SAFETY PLAN
[redacted]
C-3SITE PLAN
[redacted]

A-101 FIRST FLOOR PLAN
A-102 SECOND FLOOR PLAN
A-121 REF'D GLG PLAN
A-122 2ND FLR REF'D GLG PLAN
A-130 ROOF PLAN
A-300 ELEVATIONS
A-301 ELEVATIONS
A-320 BUILDING SECTIONS
A-330 WALL SECTIONS
A-331 WALL SECT. & COL. DET.

A-340 DETAIL BUILDING
A-360 RATED ASSEMBLIES
A-361 RATED ASSEMBLIES
A-380 STAIR DETAILS
A-381 ELEVATOR DETAILS
A-570 MISC DETAILS
[redacted]

S-0 NOTES
S-1 FOUNDATION PLAN
S-2 SECOND FLOOR PLAN
S-3 ROOF FRAMING PLAN
S-4 DETAILS

M-101 1 & 2 FLR HVAC PLAN

P-101 1 & 2 FLR PUMBING PLAN

E-100 ELECTRICAL NOTES
E-101 1 & 2 FLR POWER PLAN
E-102 1 & 2 LIGHTING PLAN

TENANT TO PROVIDE DRINKING FTNS AS PART OF "FIT-UP".PLUMBER TO PROVIDE TAP FOR VENT AND DRAIN.

SEE DRAWING A-006 FOR ADDITIONAL CODE INFORMATION.FIRE PROOF FOR COLUMNS

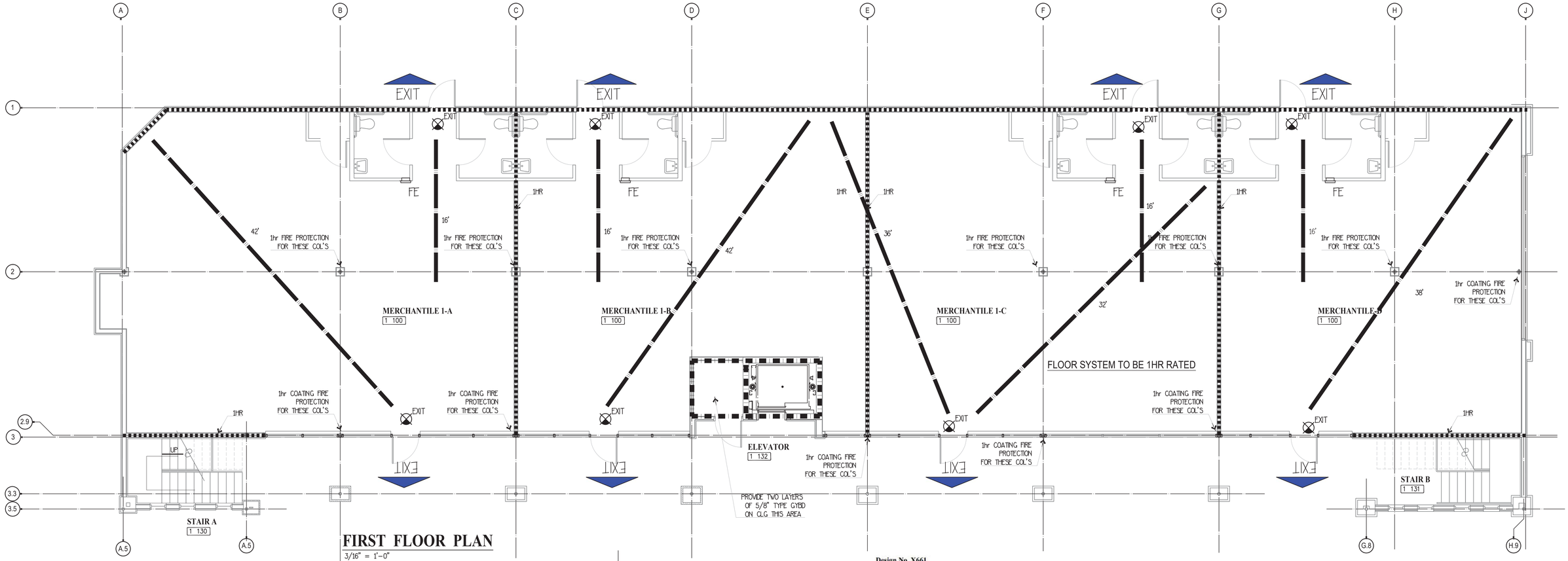
STATE OF GEORGIA
MICHAEL A. THOMAS
2482
REGISTERED ARCHITECT

BLD2020-04937

JIMMY CARTER CONV. STORE
JIMMY CARTER BLVD.
COVER SHEET

TA Design Group, Inc.
pob 81226 Chamblee, GA 30366
tadgi.com
864-553-2474

08/27/20
NTS
A-001
1525



FIRST FLOOR PLAN

3/16" = 1'-0"

LIFE SAFETY LEGEND

- TRAVEL PATH
- EXIT SIGN
- FIRE EXTINGUISHER CABINET
- FIRE EXTINGUISHER
- ## EXIT CAPACITY

LIFE SAFETY LEGEND

- 2 HR RATING
- 1 HR RATING

FIRE EXTINGUISHERS:
SHALL BE LOCATED PER THE REQUIREMENTS OF NFPA 10. THE SIZE SHALL BE A MINIMUM OF __2__ A __10__ BC, ___ IS/ARE REQUIRED AND SHALL BE INSTALLED AT A MAXIMUM OF 48" ABOVE THE FINISHED FLOOR TO THE TOP OF THE HANDLE. (ONE EXTINGUISHER IN EACH SPACE)

TENANT SEPARATION WALLS:
ARE TO BE ONE HOUR FIRE RATED CONSTRUCTION THAT EXTENDS FROM THE FLOOR TO THE UNDERSIDE OF THE ROOF OR FIRE RATED FLOOR DECK WITH ALL OPENINGS SEALED TIGHT PER THE 2012 GWINNETT COUNTY ORDINANCE FOR FIRE PREVENTION AND PROTECTION ORDINANCE SECTION 46-41

IDENTIFICATION OF FIRE BARRIERS:
SHALL BE BY SIGNS OR STENCILING PERMANENTLY INSTALLED ON ALL RATED BARRIERS OR WALLS, ABOVE ANY DECORATIVE CEILING AND/OR IN CONCEALED SPACES. THE LETTERING SHALL BE 2" IN HEIGHT AND SPACED EVERY 12 FT. THE FOLLOWING WORDING IS RECOMMENDED " _1-2___ HOUR FIRE AND SMOKE BARRIER PROTECT ALL OPENINGS",

DOOR HARDWARE:

HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. GEORGIA ACCESSIBILITY CODE.

DOOR LOCKS:

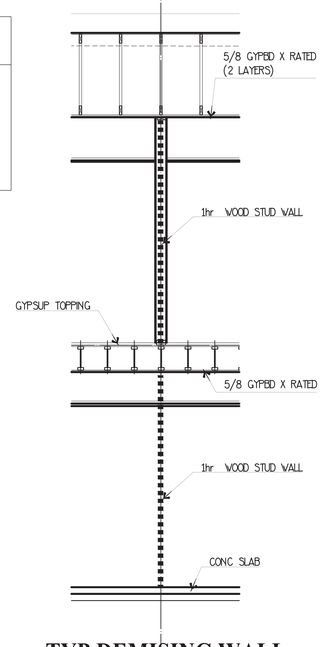
IF PROVIDED, SHALL NOT REQUIRE THE USE OF A KEY, A TOOL, OR SPECIAL KNOWLEDGE OR EFFORT FOR OPERATION FROM THE EGRESS SIDE., NFPA 101 LIFE SAFETY CODE, SECTION 7.2.1.5.3, 2012 EDITION.

STAIRS:

SHALL BE SOLID WITH NO PERFORATIONS, NOSINGS OR OPEN RISERS WIDE WITH TREADS A MINIMUM OF 11" DEEP AND RISERS A MAXIMUM OF 7" HIGH WITH A MAXIMUM HEIGHT BETWEEN LANDINGS NOT TO EXCEED 12 FEET. NFPA LIFE SAFETY CODE SECTION 7.2.2 AND TABLE 7.2.2.2.1.1(A)

HANDRAIL DETAILS:

NEW HANDRAILS ON STAIRS AND RAMPS SHALL BE PROVIDED ON BOTH SIDES AND SHALL NOT BE LESS THAN 34 INCHES AND NOT MORE THAN 38INCHES, ABOVE THE SURFACE OF THE TREAD, MEASURED VERTICALLY TO THE TOP OF THE RAIL FROM THE LEADING EDGE OF THE TREAD. NFPA LIFE SAFETY CODE 2012 EDITION SECTION 7.2.2.4 AND THE 2010 ADA ACCESSIBLE DESIGN.

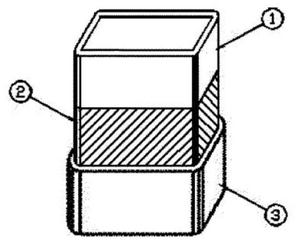


TYP DEMISING WALL

NTS

Design No. X661
January 07, 2004

Ratings - 1, 1-1/2, and 3 Hr. (See Item 3 and 4)



1. **Steel T**ube Column — Hollow structural steel columns with the minimum sizes shown in the tables below. Columns shall be free of dirt, loose scale and oil.
2. Primer Coating — Two Component Epoxy or Phenolic Modified Alkyd applied at 0.002 in. dry film thickness.
3. Mastic & Intumescent Coating* — Coating spray or brush applied in accordance with the manufacturer\'s instructions at the minimum average dry thickness shown in the table below. The thickness shown does not include primer thickness.

Size	A/P	1 Hr.	1-1/2 Hr.	2 Hr.	3 Hr.
TS4x4x 1/4	0.24	0.073	0.226	0.367	NR
TS4.5x4.5x 1/4	0.24	0.073	0.226	0.367	NR

NU-CHEM INC — TYPE THERMO-SORB. Investigated for Interior Conditioned Space and Interior General Purpose.

4. **Carbon Fiber Mesh —** (Optional, Not Shown) For three hour rating. Nom. 3/16 in. by 3/16 in. 3.50 oz/sq yd carbon fiber mesh to cover the entire surface. The depth at which the reinforcing mesh is placed shall be approximately 0.120 inches from the steel substrate.
5. **Top Coat —** (Not Shown) - No topcoat required for Interior Conditioned Space. Finishing topcoat for Interior General Purpose, Type Sherwin Williams Epolon II or Nu-Chem Type SB2P applied at 0.003 in. dry film thickness.

COLUMN FIRE PROFF'G @ STOREFRONT

NTS

Gypsum Wallboard Column Fireproofing (CAD FILE NAME GOLDN.DWG OR GOLDN.DXF)

No.	Fire Rating	Ref.	Design No.	Description
LIGHT COLUMN				
1	1 hr.	UL GA	X528 CM 1452	Two layers of 1/2" (12.7 mm) Fire-Shield C Wallboard furred from TS 4x4x0.188 tube steel column by 1 5/8" (43.3 mm) steel stud each corner.

COLUMN FIRE PROFF'G @ "2" LINE

ADDITIONAL CODE INFORMATION:

CONSTRUCTION SYSTEM CONCRETE FLOOR SLAB, WOOD STUD WALLS, ALUMINUM STOREFRONT, STUCCO & STONE FINISH ON "DENSE-GLASS" SHEATHING,TGI FLOOR JTS, 8" SUB-FLOOR W/ 1" GYPCRETE TOPPING, WOOD TRUSS ROOF FRAMING W/ CLASS "A" ROOFING AND INSULATION.

OCCUPANCIES: ASSEMBLY "A2", & BUSINESS "B"

SQUARE FOOTAGE 6,000 /FL OR 12,000 TOTAL (MAX PER FL 11,500,FL

CONSTRUCTION TYPE "V-A" PER TABLE 504.4
FIRE RATINGS 1hr PER TABLE 601

GWINNETT COUNTY
Department of Planning and Development

These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.

Sep 02, 2020

AUTHORIZED

BLD2020-04937

1 ADDED NOTES, WALL SECTOND,& FIRE RATINGS

STATE OF GEORGIA
MICHAEL A. THOMAS
2482
REGISTERED ARCHITECT

JIMMY CARTER CONV. STORE
FIRST FLR LIFE SAFETY PLAN

TA Design Group, Inc.
A-006

SECOND FLOOR PLAN

3/16" = 1'-0"

LIFE SAFETY LEGEND

- TRAVEL PATH
- EXIT SIGN
- FE — FIRE EXTINGUISHER CABINET
- FIRE EXTINGUISHER
- EXIT CAPACITY

LIFE SAFETY LEGEND

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- 1 HR RATING

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STAIRS:

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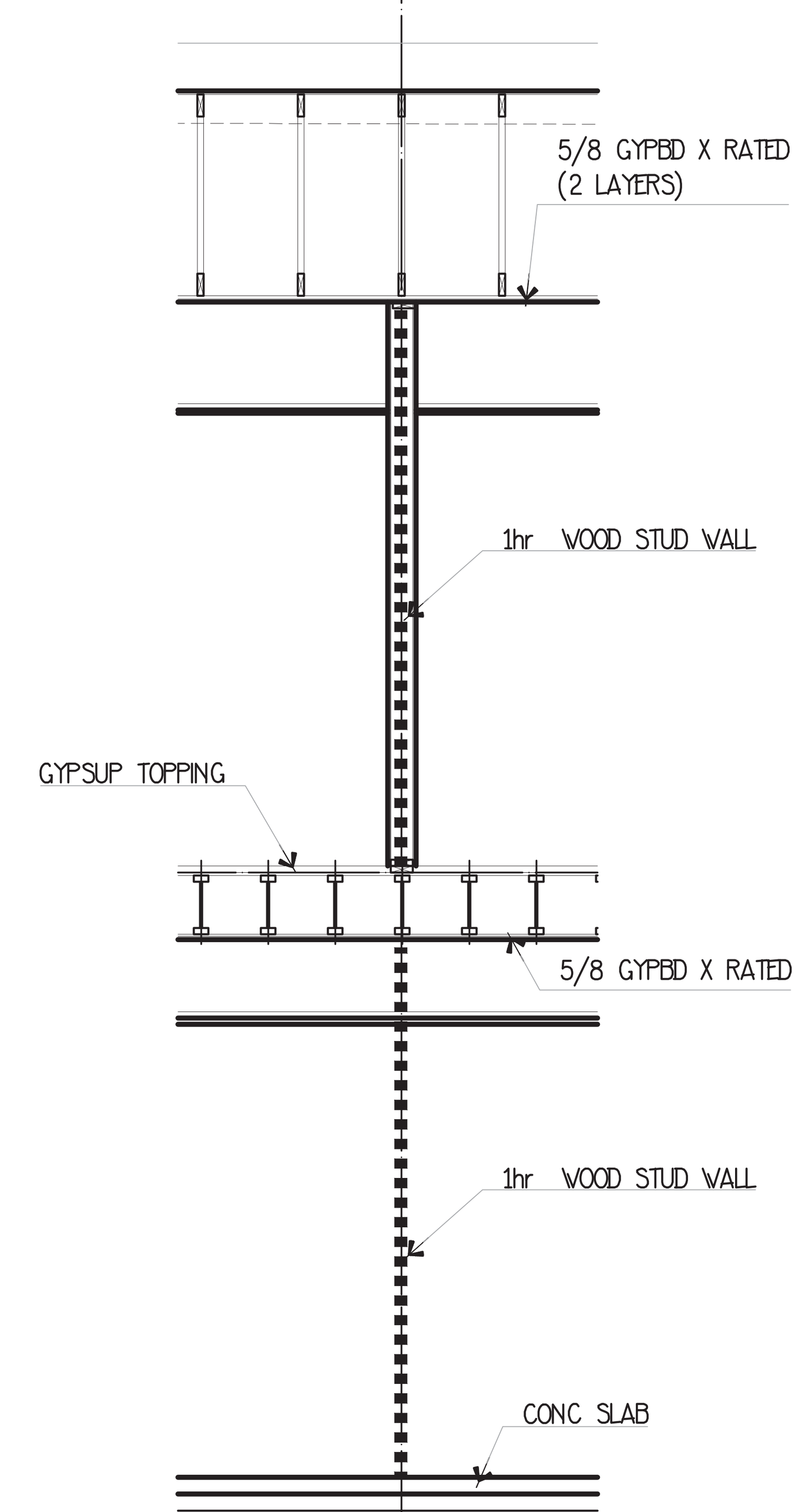

TYP DEMISING WALL

NTS

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Sep 02, 2020
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1 ADDED NOTES, WALL SECTOND,& FIRE RATINGS

STATE OF GEORGIA
MICHAEL A. THOMAS
2482
REGISTERED ARCHITECT

JIMMY CARTER CONV. STORE
JIMMY CARTER BLVD.
2nd FLR LIFE SAETY PLAN

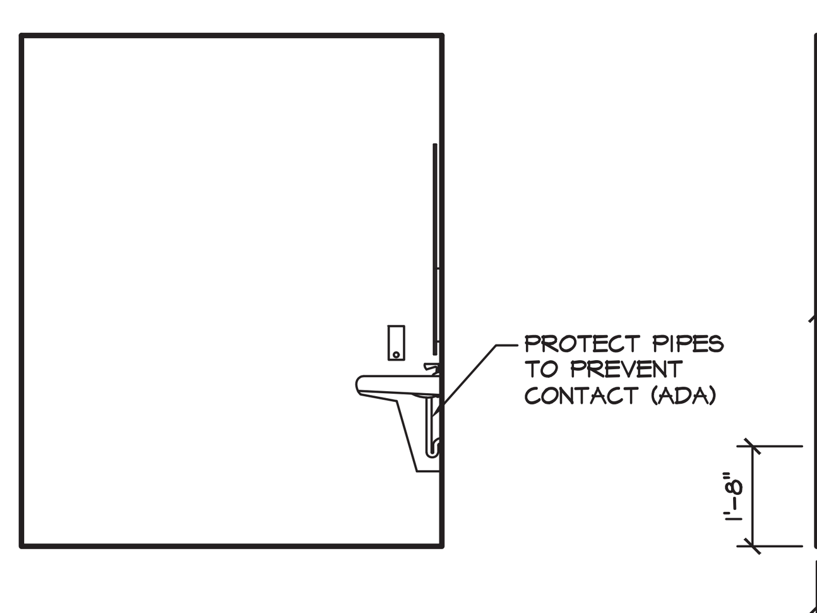
TA Design Group, Inc.
pob 81226
Chamblee, GA 30366
tadgi.com
864-553-2474

3/16" = 1'-0"
08/24/20
A-007
1525

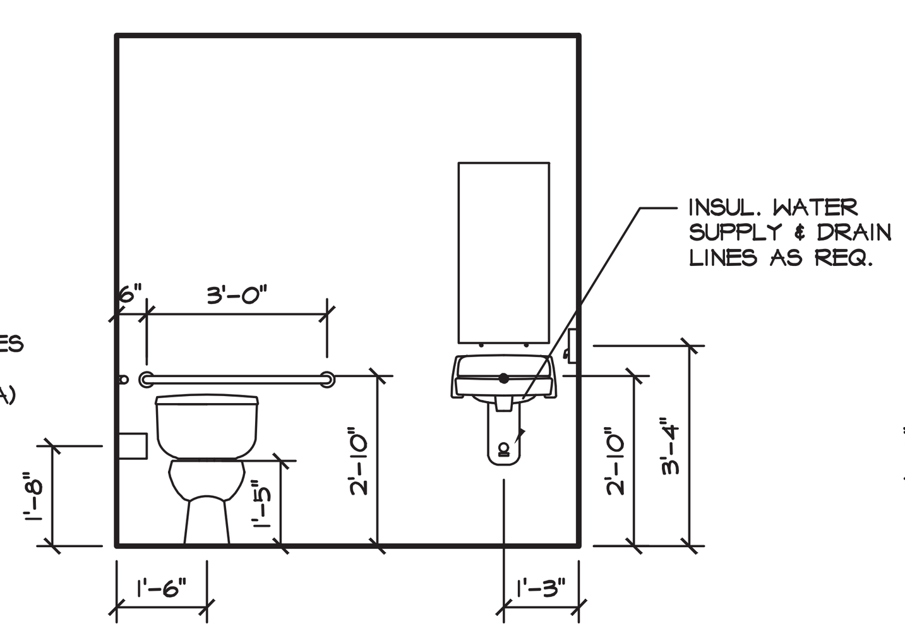
FIRST FLOOR PLAN

3/16" = 1'-0"

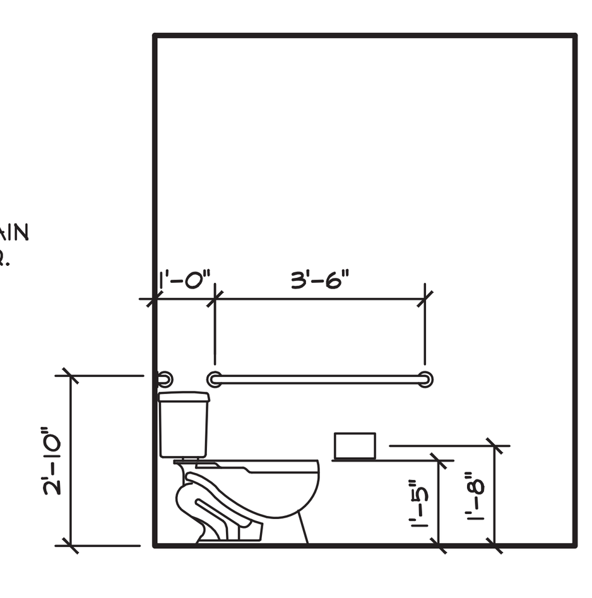
SEE A-006 FOR RATED WALL REQ'TS



INTERIOR ELEVATION

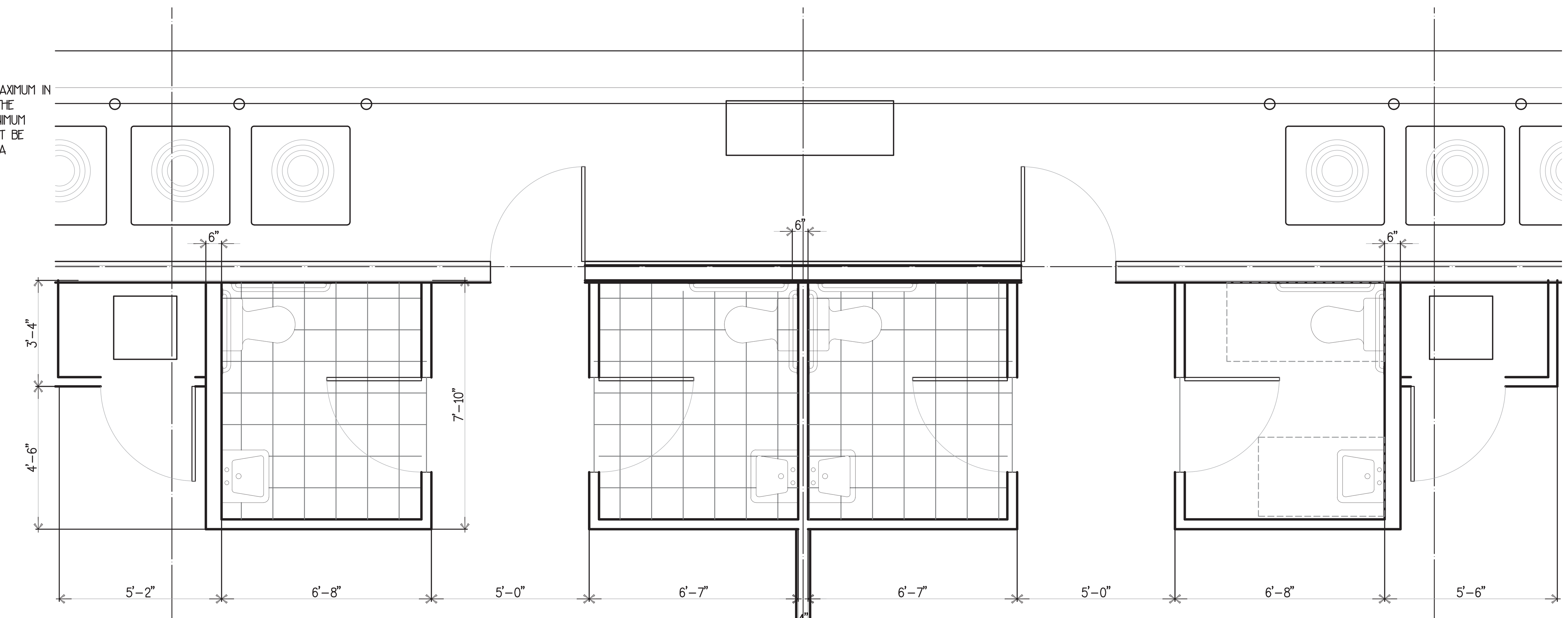


INTERIOR ELEVATION



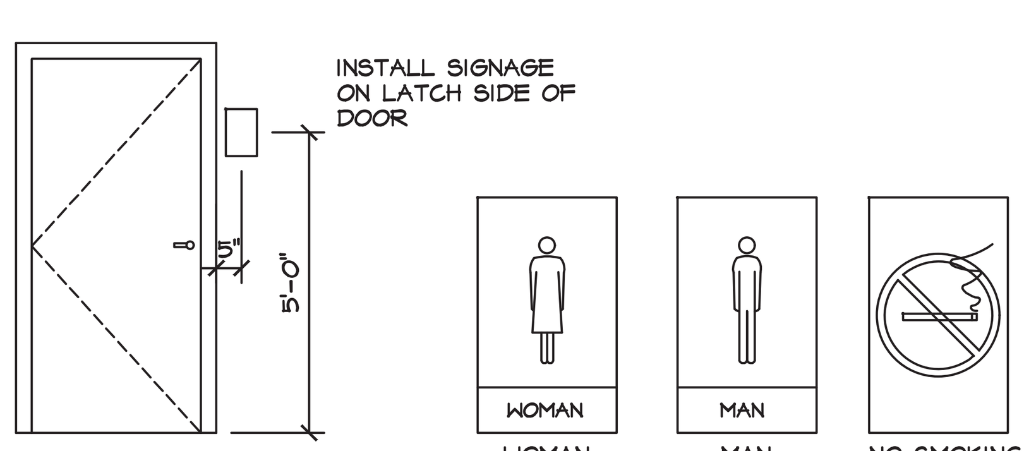
INTERIOR ELEVATION

(PAPER DISPENSERS)SHALL BE 7 INCHES MINIMUM AND 9 INCHES MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER.THE OUTLET OF THE DISPENSER SHALL BE 15 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISH FLOOR AND SHALL NOT BE LOCATED BEHIND GRAB BARS PER SECTION 604.7 OF THE 2010 ADA STANDARD FOR ACCESSIBLE DESIGN



TYP TOILET BANK PLAN

3/8" = 1'-0"



WOMAN MAN NO SMOKING

RESTROOM SIGNAGE NOTE

SIGNAGE FOR RESTROOMS SHALL BE RAISED AND BRAILLE CHARACTERS AND PICTORIAL SYMBOL SIGNS. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60 INCHES ABOVE THE FINISI-FLOOR TO THE CENTERLINE OF THE SIGN. 120-3-20-.41(4),(5),(6) OF THE GEORGIA ACCESSIBILITY CODE.

TOILET ROOM SINAGE

TOILET ACCESSORY SCHEDULE

KEY	DESCRIPTION	MANUFACTURER/MODEL	REMARK
A	MIRROR	BRADLEY - MODEL 781 SERIES	STAINLESS STEEL FRAME
B	LIQUID SOAP DISPENSER	BRADLEY - SURFACE MOUNTED, TANK TYPE - VERTICAL - MODEL 6562	
C	TOWEL DISPENSER/WASTE RECEPTACLE	BRADLEY - RECESSED BRADEX - MODEL 235 OR EQUAL	
D	GRAB BAR	BRADLEY - SERIES #812, STAINLESS STEEL, 1½" DIA.	36" L. AND 42" L. BARS (WATER CLOSET)
E	TOILET TISSUE DISPENSER	BRADLEY - SURFACE MOUNTED MODEL 5061	SURFACE MOUNT ROLL DISPENSER

NOTES:
1. ALL INSTALLATIONS TO BE IN COMPLIANCE WITH ALL ACCESSIBILITY CODES & REGULATIONS.
2. ALL EXPOSE HOT WATER & DRAIN PIPES TO BE INSULATED WITH "HANDI LAV-GUARD" INSULATION KIT BY TRUEBRO, INC.
3. PROVIDE BLOCKING IN WALLS AS REQ'D TO ANCHOR FIXTURES.
4. MAINTAIN INTEGRITY OF FIRE RATED WALLS BETWEEN TENANTS.
5. APPLY ⅝" INT. GYP. BD. ON WOOD OR METAL FURRING @ 24" O.C. TO CMU WALLS THAT OCCUR AT TOILET ROOMS. PREPARE AND/OR FINISH SAME AS OTHER WALLS.
6. PROVIDE STAINLESS STEEL ESCUTCHEON PLATES WHERE WATER & DRAIN LINES PENETRATE WALLS.
7. CONTRACTOR TO FURNISH ALL TOILET ACCESSORIES AS SPECIFIED.
8. CONTRACTOR SHALL PROVIDE PROPER BLOCKING FOR TOILET ACCESSORIES AND CABINETRY.

INSTALL SOAP DISPENSER AT ALL SINKS PER INTERIOR ELEVATIONS

TOILET ROOM NOTES:

TOILET COMPARTMENTS – SHALL COMPLY WITH ALL OF THE MOUNTING REQUIREMENTS AND THE SHALL BE 60 INCHES WIDE MINIMUM MEASURED PERPENDICULAR TO THE SIDE WALL AND 56 INCHES DEEP MINIMUM FOR WALL HUNG WATER CLOSETS AND 59 INCHES DEEP MINIMUM FOR FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE WALL. SECTION 604.8.1.1 OF THE 2010 ADA STANDARD FOR ACCESSIBLE DESIGN. (AT NEW SINGLE USE RESTROOMS)

WATER CLOSET SEAT – THE SEAT HEIGHT OF A WATER CLOSET ABOVE THE FINISHED FLOOR SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM MEASURED TO THE TOP OF THE SEAT. IN RESIDENTIAL DWELLING UNITS THE HEIGHT OF THE WATER CLOSET SEAT SHALL BE 15 INCHES TO 19 INCHES IN HEIGHT ABOVE THE FINISHED FLOOR. 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

GRAB BARS – THE REAR WALL GRAB BAR SHALL BE 36 INCHES LONG MINIMUM AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12 INCHES MINIMUM ON ONE SIDE AND 24 INCHES MINIMUM ON THE OTHER SIDE. THE SIDE WALL GRAB BAR SHALL BE 42" INCHES LONG MINIMUM, LOCATED 12 INCHES MAXIMUM FROM THE REAR WALL AND EXTENDING 57 INCHES MINIMUM FROM THE REAR WAIL. SECTION 604.5 OF THE 2010 ADA STANDARD FOR ACCESSIBLE DESIGN.

PAPER DISPENSERS – SHALL BE 7 INCHES MINIMUM AND 9 INCHES MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE 15 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISH FLOOR AND SHALL NOT BE LOCATED BEHIND GRAB BARS PER SECTION 604.7 OF THE 2010 ADA STANDARD FOR ACCESSIBLE DESIGN.

FLUSH CONTROLS – SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET PER SECTION 604.6 OF THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

MIRRORS – WNEN MIRRORS ARE PROVIDED, TNEY SNAIL BE LOCATED AOOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40 INCHES MAXIMUM ABOVE THE FINISHED FLOOR. MIRRORS NOT LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES MAXIMUM
ABOVE THE FINISHED FLOOR PER SECTION 603.3 OF THE 2010 ADA STANDARD FOR ACCESSIBLE DESIGN.

URINALS – WHERE MORE THAN ONE URINAL IS PROVIDED AT LEAST ONE SHALL COMPLY WITH SECTION 605 AND SHALL BE THE STALL TYPE OR THE ALL HUNG TYPE WITH THE RIM 17 INCHES MAXIMUM ABOVE THE FINISHED FLOOR. URINALS SHALL BE 13.5 INCHES DEEP MINIMUM MEASURED FROM THE OUTER FACE OF THE URINAL RIM TO THE BACK OF THE FIXTURE. SECTIONS 213.3.3 AND 605 OF THE 2010
ADA CODE FOR ACCESSIBLE DESIGN

LAVATORIES AND SINKS – SHALL BE INSTALLED WITH THE FRONT OF THE HIGHER OF THE RIM OR COUNTER SURFACE 34 INCHES MAXIMUM ABOVE THE FINISHED FLOOR AND SHALL BE PROVIDED WITH A CLEAR FLOOR SPACE POSITIONED FOR A FORWARD APPROACH, AND KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 306 SHALL BE PROVIDED. 2010 ADA STANDARD FOR ACCESSIBLE DESIGN SECTION 606

EXPOSED PIPES AND SURFACES – HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES PER 2010 ADA STANDARD FOR ACCESSIBLE DESIGN.

GWINNETT COUNTY

Department of Planning and Development

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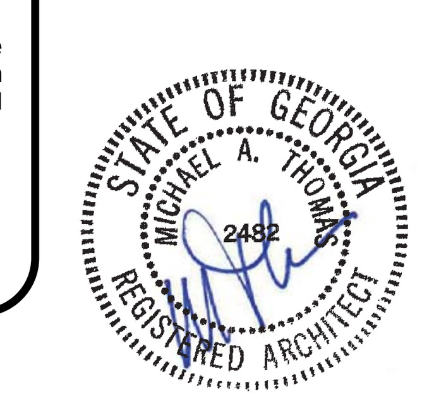
Sep 02, 2020

AUTHORIZED

BLD2020-04937



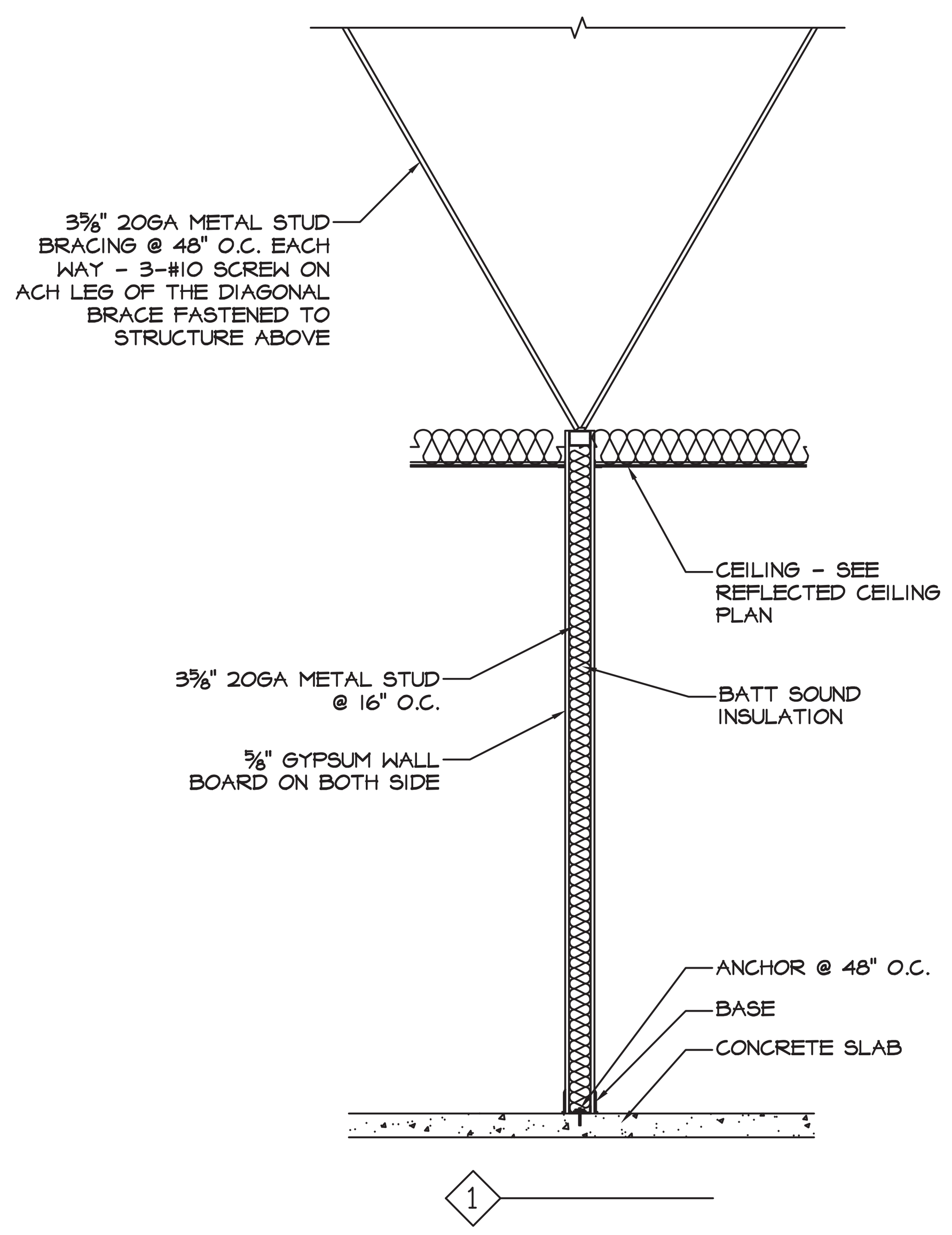
JIMMY CARTER CONV. STORE
JIMMY CARTER BLVD.
FIRST FLOOR PLAN

TA Design Group, Inc.
pob 81226 Chamblee, GA 30366
tadgi.com
864-553-2474

08/25/20
3/16" = 1'-0"
A-101
1525

SECOND FLOOR PLAN

3/16" = 1'-0"
SEE A-007 FOR RATED WALL REQ'TS



FINISH SCHEDULE

ROOM	FUNCTION	FLOOR	BASE	NORTH	EAST	SOUTH	WEST	CEILING	REMARKS
1&2	UNIT	CONC	-	GB	GB	AL	GB	ACT	.
1	TOILET	CONC	-	GB	GB	GB	GB	GB	.
1&2	EL EQ	CONC	-	GB	GB	GB	GB	GB	2hr
2233	REFUGE	VT		GB	GB	GB	GB	GB	

LEGEND

FLOOR MATERIALS:
CONC. = CONCRETE
WOOD = WOOD
CARP1 = CARPET TYPE 1
CARP2 = CARPET TYPE 2
CARP3 = CARPET TYPE 3
C.T. = CERAMIC TILE
Q.T = QUARRY TILE
STONE = STONE
V.T. = VINYL TILE OR SHEET
STL = STEEL PLATE

BASE:
WOOD = WOOD
C.T. = CERAMIC TILE
Q.T. = QUARRY TILE
V-S = VINYL STRAIGHT
V-C = VINYL COVED

WALL:
GB-P = GYPBOARD PAINTED
GB-PA = GYPBOARD PAINTED
GB-E = GYPBOARD PAINTED EPOXY
GB-V1 = GYPBOARD VINYL TYPE 1
GB-V2 = GYPBOARD VINYL TYPE 2
GB-CT = GYPBOARD CERAMIC TILE
CB-P = CONCRETE BLK PAINTED
CB-PA = CONCRETE BLK PAINTED
CB-E = CONCRETE BLK PAINTED EPOXY
PC-P = PRE CAST CONCRETE PAINTED
PC = PRE CAST CONCRETE

CEILING:
GB = GYPBOARD
WOOD = WOOD
ACT1 = ACOUSTICAL TYPE 1
ACT2 = ACOUSTIAL TYPE 2
ACT3 = ACOUSTICAL TYPE 3
EXP = EXPOSED
S-P = STEEL PAINTED

DOOR SCHEDULE

MARK	WDITH	HIEGHT	THICK	TYPE	MAT	FR	FIRE	GLASS	LOUVER	REMARKS
1 HVA	3-0	6-8	1 3/4	FL	WD	WD			24X24	
1 BATH	3-0	6-8	1 3/8	B	WD	WD				
1 EL E	3-0	6-8	1 3/8	B	HM	HM				ELEV MANU'R
1 EL D	3-8	7-0	1 3/8	B	HM	HM			12x12	SCREENED
1 ENT	3-0	7-0	1 3/8	A	AL	AL				
1 EX	3-0	7-0	1 3/8	B	HM	HM				
2233	3-0	7-0	1 3/8	B	HM	HM				
2 HVA	3-0	6-8	1 3/4	FL	WD	WD			24X24	
2 BATH	3-0	6-8	1 3/8	B	WD	WD				
2 R	3-0	6-8	1 3/8	B	HM	HM				
2 STF	3-0	7-0	1 3/8	B	HM	HM			12x12	

DOOR LEGEND

WD = WOOD
GL = GLASS
INS = INSULTATED
HM = HOLLOW METAL
HC = HOLLOW METAL
M = METAL CLAD WOOD

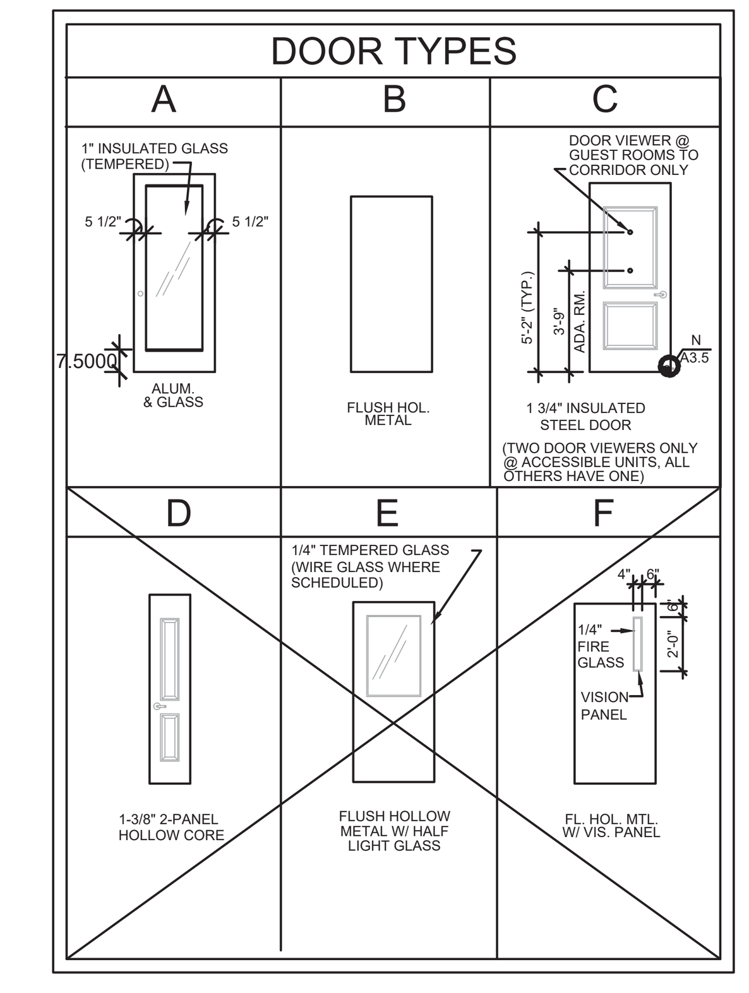
F = FLUSH
FG = FLUSH W/GLASS
FHG = FLUSH W/HALF GLASS
ALUM = ALUMINUM STOREFRONT
RP = RAISED PANEL

OH = OVERHEAD
VL = VERTICAL LIFT
SL = SLIDING
RU = ROLL-UP
WG = WIRE GATE

(DOOR HARDWARE) HANDLES,PULLS,LATCHES,LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING,TIGHT PINCHING,OR TWISTING OF THE WRIST TO OPERATE.LEVER OPERATED MECHANISMS,PUSH TYPE MECHANISMS,AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS.GEORGIA ACCESSIBILITY CODE.

(DOOR LOCKS)IF PROVIDED,SHALL NOT REQUIRE THE USE OF A KEY,A TOOL, OR SPECIAL KNOWLEDGE OR EFFORT FOR OPERATION FROM THE EGRESS SIDE,NFPA 101 LIFE SAFETY CODE,SECTION 7.2.1.5.3,2018 EDITION.

DOOR TYPES



1 ADDED DOOR & FINISH SCH.

GWINNETT COUNTY
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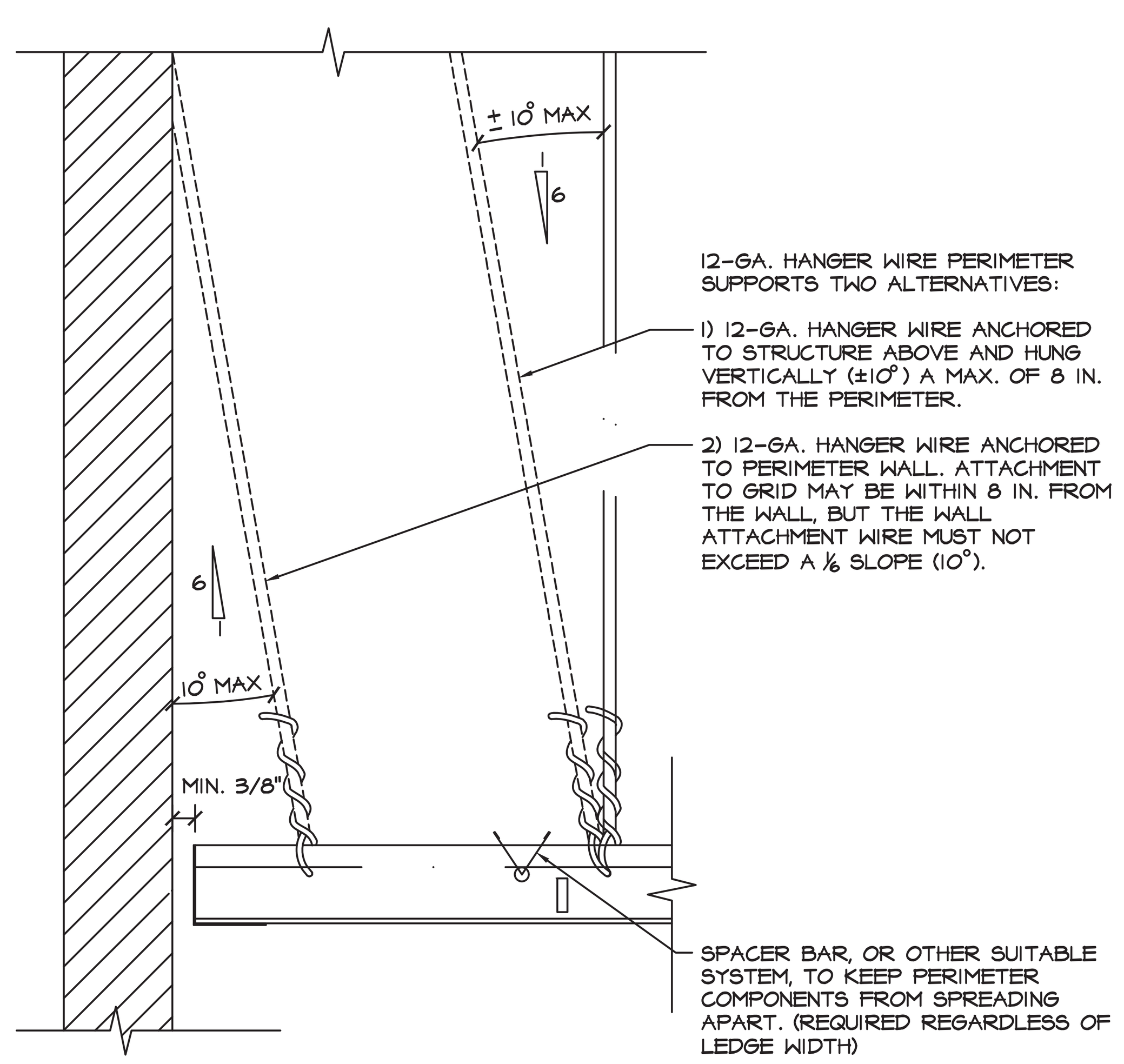
STATE OF GEORGIA
MICHAEL A. THOMAS
2482
REGISTERED ARCHITECT

JIMMY CARTER CONV. STORE
SECOND FLOOR PLAN
TA Design Group, Inc.
A-102

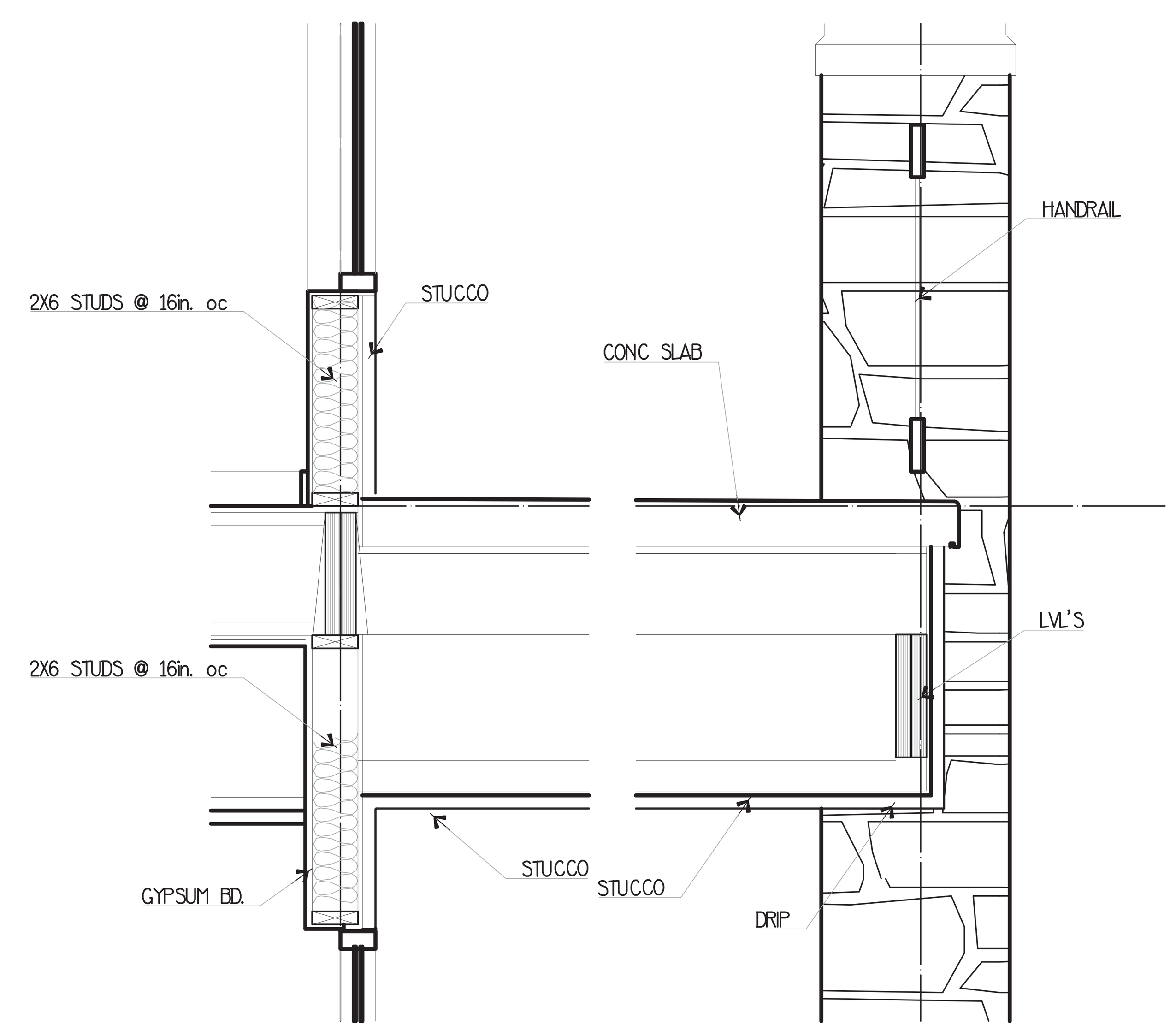


CISCA DETAIL (TYP.)

SCALE: N.T.S.

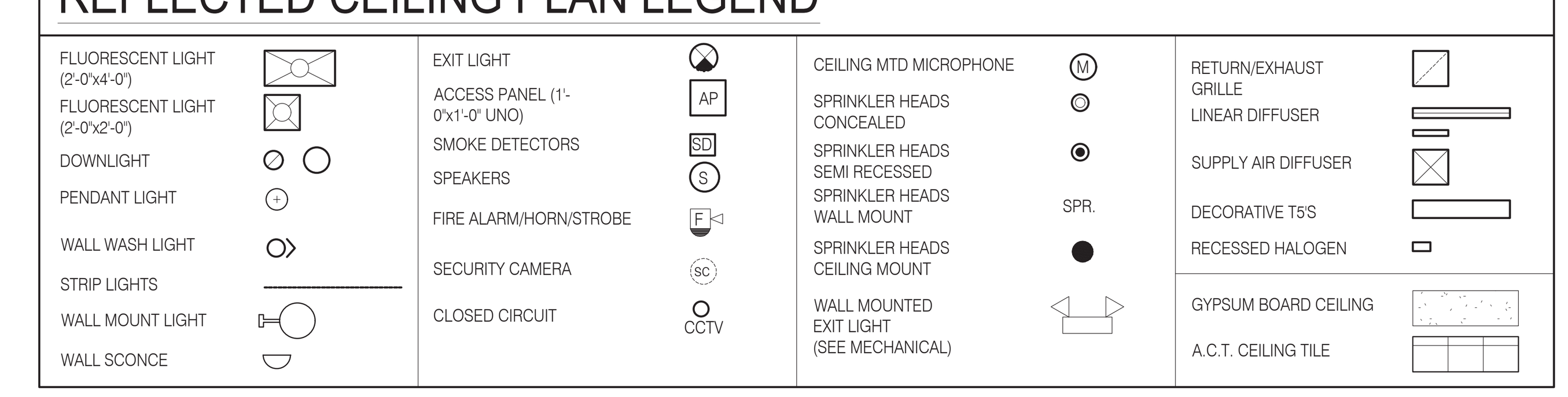
TO BE INSTALLED TO CISCA RECOMMENDATIONS FOR AREAS SUBJECT TO LIGHT TO MODERATE SEISMIC ACTIVITY.

MINIMUM 7/8" WALL MOLDING
GRID MUST NOT BE ATTACHED TO THE WALL MOLDING
MINIMUM 3/8" CLEARANCE ON ALL SIDES
MINIMUM 3/8" OVERLAP OF GRID ON THE WALL MOLDING
ENDS OF MAIN BEAMS AND CROSS TEES MUST BE TIED TOGETHER TO PREVENT SPREADING
SAFETY WIRES REQUIRED ON LIGHT FIXTURES



A / A-120 WALKWAT DETAIL

REFLECTED CEILING PLAN LEGEND



GWINNETT COUNTY

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BLD2020-04937

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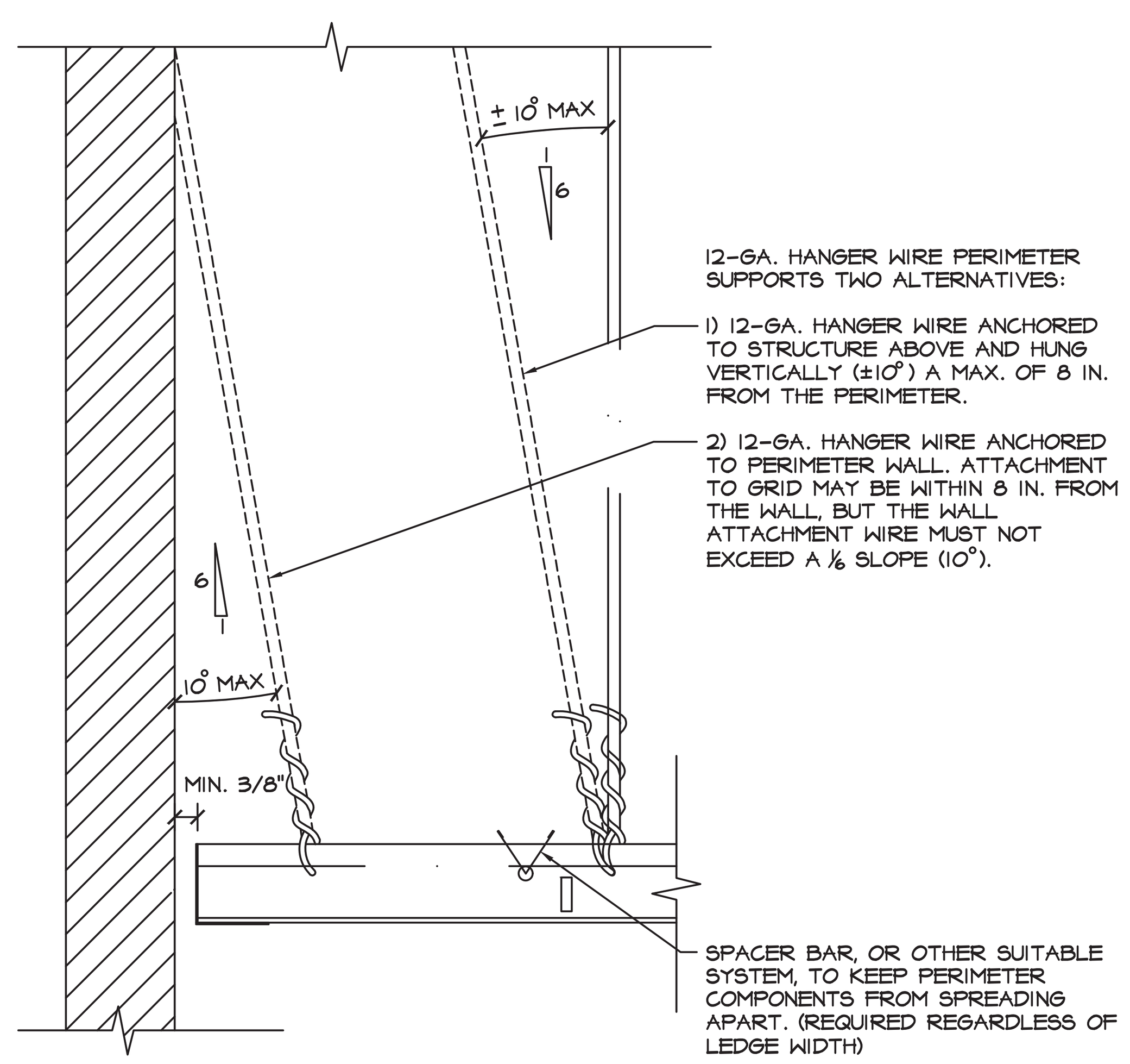
MICHAEL A. THOMAS
2482
REGISTERED ARCHITECT

JIMMY CARTER CONV. STORE
JIMMY CARTER BLVD.
1st FLR REF'D CLG PLAN

TA Design Group, Inc.
pob 81226 Chamblee, GA 30366
tadgi.com
864-553-2474

3/16" = 1'-0"
08/25/20
A-121
1525



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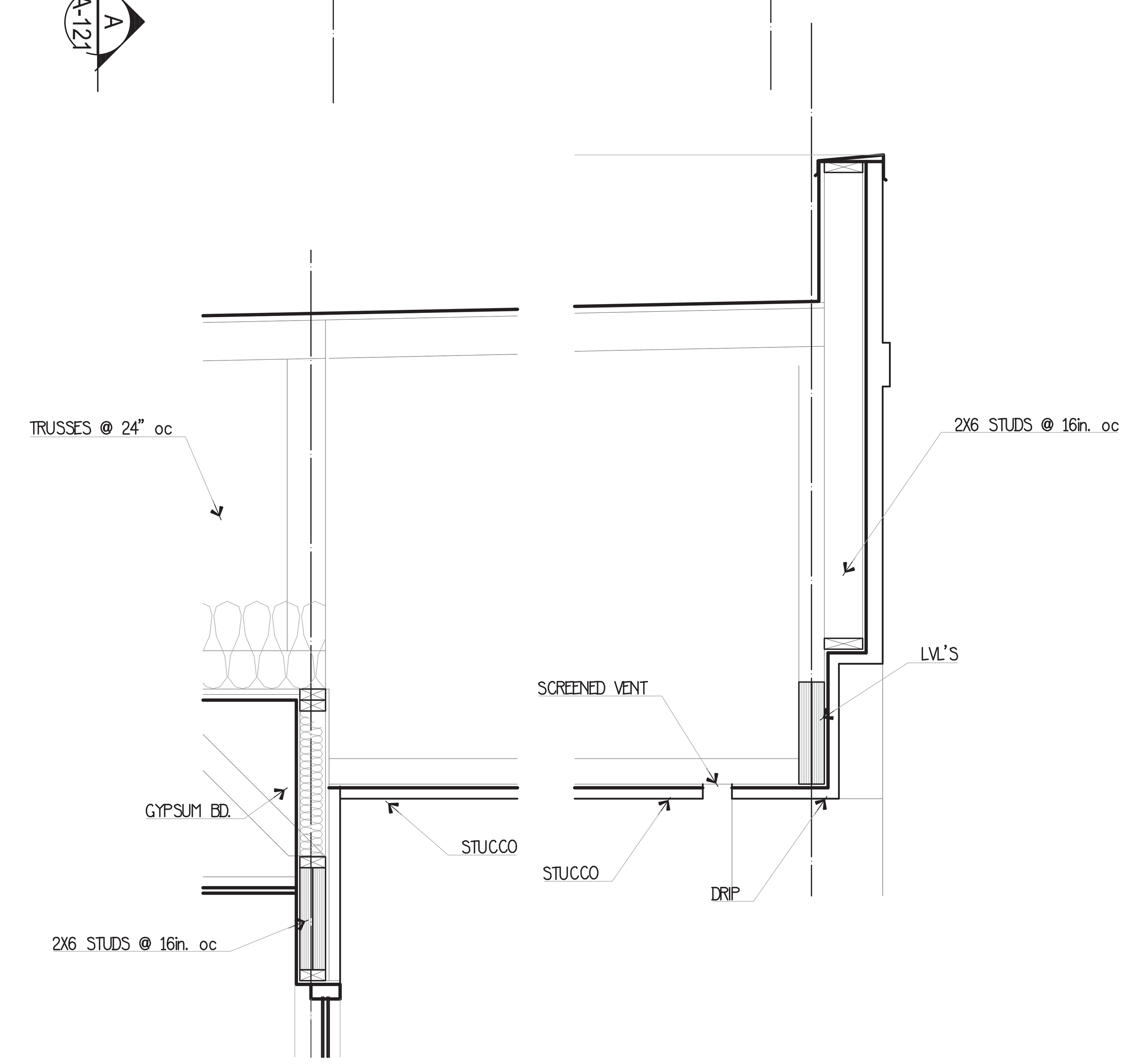

A
A-121
WALKWAT DETAIL

REFLECTED CEILING PLAN LEGEND

FLUORESCENT LIGHT (2'-0"x4'-0")	EXIT LIGHT	CEILING MTD MICROPHONE	RETURN/EXHAUST GRILLE
FLUORESCENT LIGHT (2'-0"x2'-0")	ACCESS PANEL (1'-0"x1'-0" UNO) (AP)	SPRINKLER HEADS CONCEALED	LINEAR DIFFUSER
DOWNLIGHT	SMOKE DETECTORS (SD)	SPRINKLER HEADS SEMI RECESSED	SUPPLY AIR DIFFUSER
PENDANT LIGHT	SPEAKERS (S)	SPRINKLER HEADS WALL MOUNT (SPR.)	DECORATIVE T5'S
WALL WASH LIGHT	FIRE ALARM/HORN/STROBE (F)	SPRINKLER HEADS CEILING MOUNT	RECESSED HALOGEN
STRIP LIGHTS	SECURITY CAMERA (SC)	WALL MOUNTED EXIT LIGHT (SEE MECHANICAL)	GYPSUM BOARD CEILING
WALL MOUNT LIGHT	CLOSED CIRCUIT (CCTV)		A.C.T. CEILING TILE
WALL SCONCE			

REFLECTED CEILING PLAN NOTES

1) LEVEL 1 GYB-RC CEILING AT 11'-0" IS CONTINUOUS, WITH THE EXCEPTION OF ENCLOSING STEEL BEAMS AND LOAD BEARING WALLS, ABOVE ALL ACT AND GYB-CLG CEILINGS.
2) LEVELS 2, 3 AND 4 GYB CLG CEILING AT 8'-0" IS CONTINUOUS ABOVE ACT CEILINGS WITH THE EXCEPTION OF LOAD BEARING WALLS.
3) REFER TO MEP DWGS FOR ADDITIONAL LIGHT, HVAC AND PLUMBING FIXTURE TYPES AND SPECIFICATIONS.
4) SEE ENLARGED GUESTROOM PLANS FOR MORE INFORMATION.
5) AP, PROVIDE JL INDUSTRIES 12" X 12" FDWB - FIRE-RATED & INSULATED CONCEALED FRAME ACCESS PANEL WITH WALLBOARD BEAD. THOSE SHOWN ON THE PLANS ARE EXPOSED, IN ADDITION TO THESE SHOWN PROVIDE ACCESS PANELS IN THE RATED HORIZONTAL FLOOR ASSEMBLY ABOVE ACT CEILINGS AND WALLS WHERE REQUIRED BY MECH AND ELEC. PAINT TO MATCH WALL OR CEILING.
6) RECESSED LIGHT AND OTHER FIXTURES PENETRATING RATED HORIZONTAL FLOOR/CEILING ASSEMBLY REQUIRES GYB HOUSING, SEE A760/15.

GWINNETT COUNTY

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MICHAEL A. THOMAS
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JIMMY CARTER CONV. STORE
JIMMY CARTER BLVD.
2nd REF'D CLG PLAN

TA Design Group, Inc.
pob 81226 Chamblee, GA 30366
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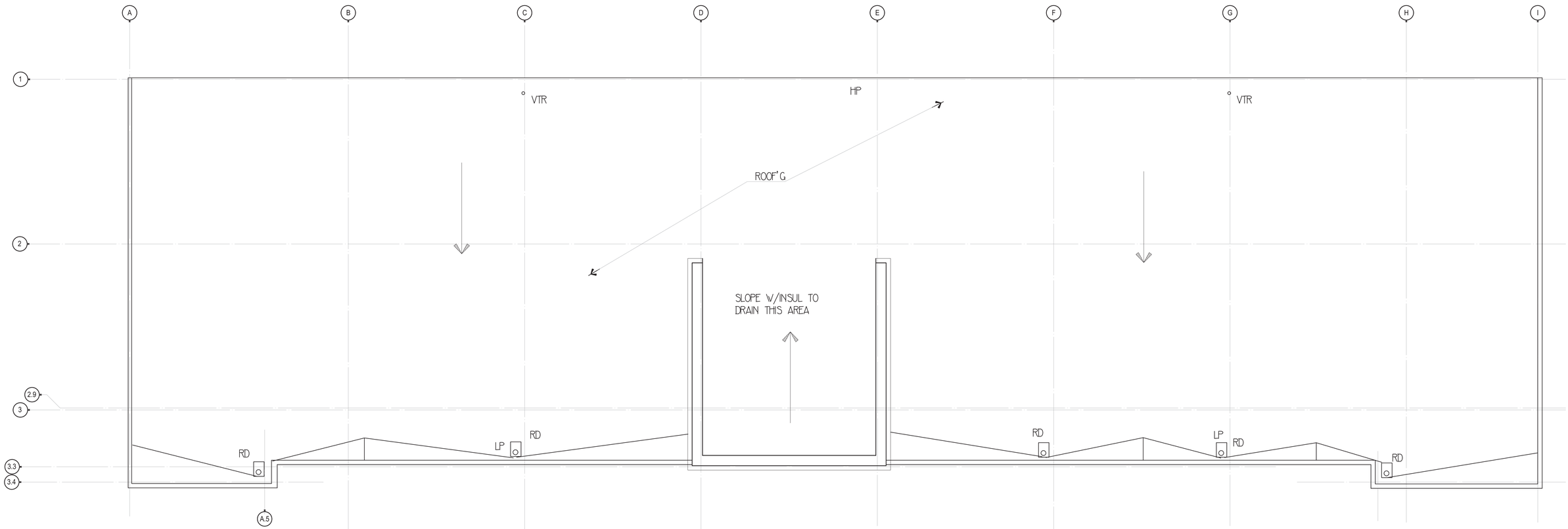
864-553-2474

3/16" = 1'-0"
08/25/20
A-122
1525



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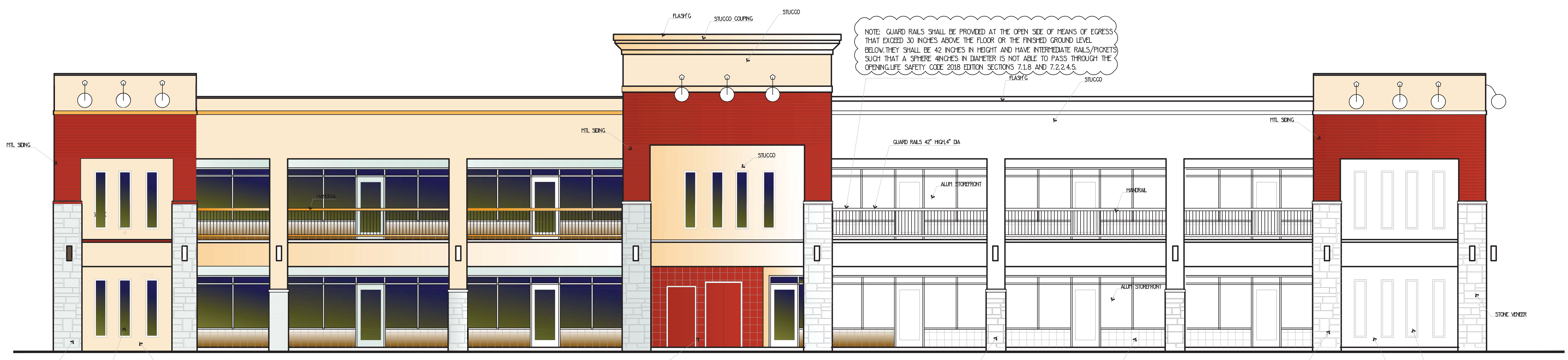
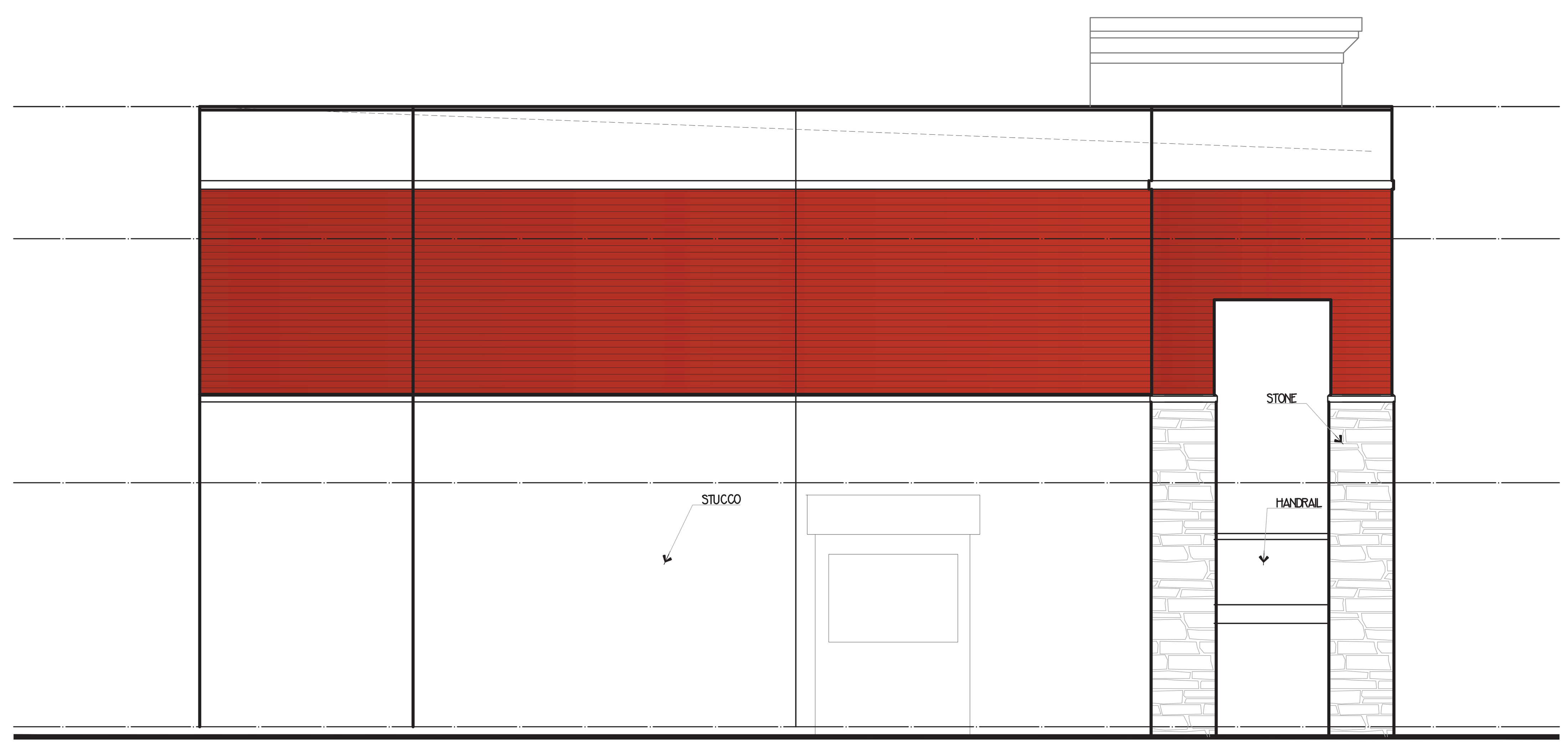
JIMMY CARTER CONV. STORE
ROOF PLAN

TA Design Group, Inc.

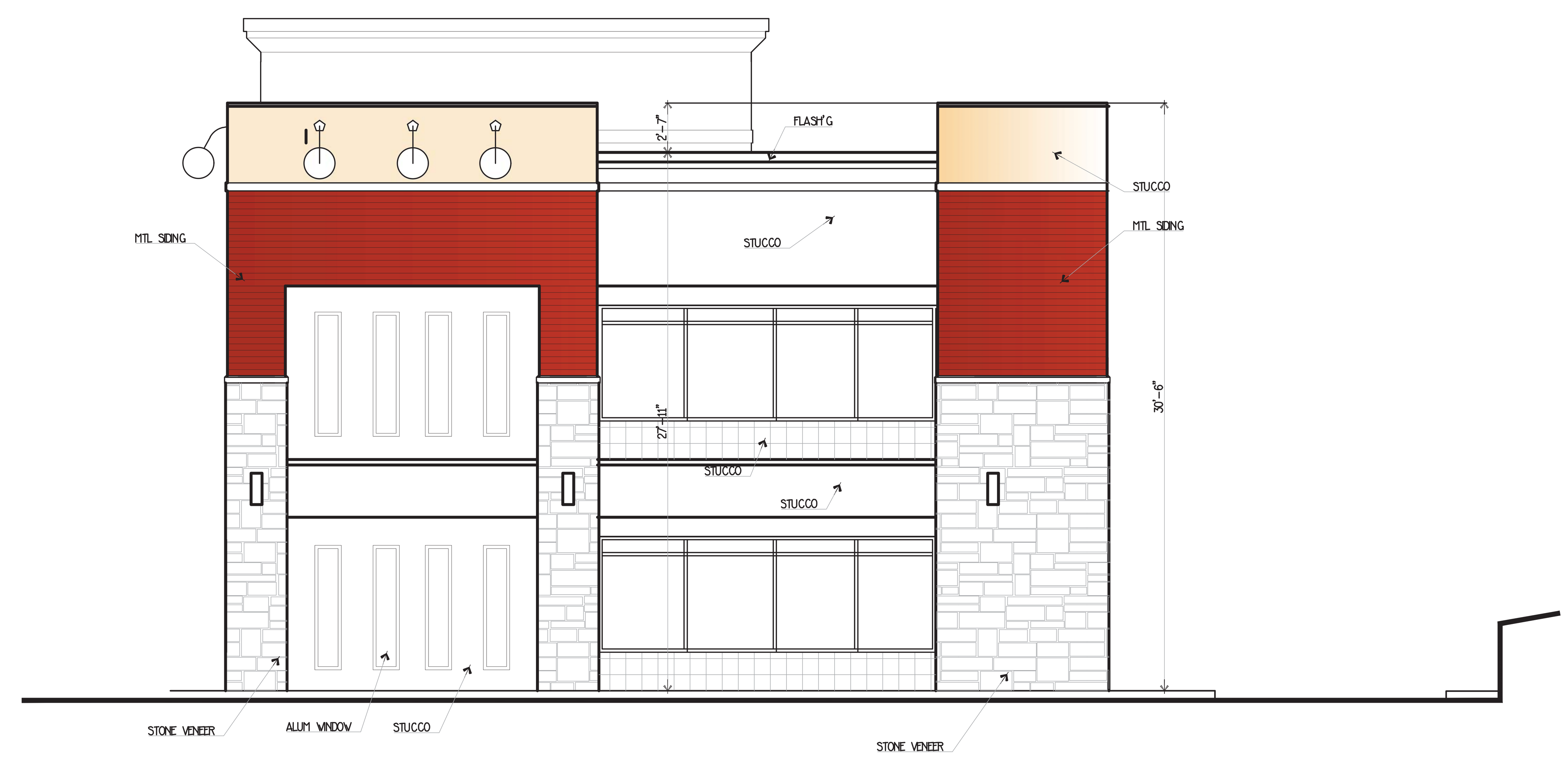
A-130



SOUTH ELEVATION



WEST ELEVATION



EAST ELEVATION

GWINNETT COUNTY

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JIMMY CARTER CONV. STORE
JIMMY CARTER BLVD.
ELEVATIONS

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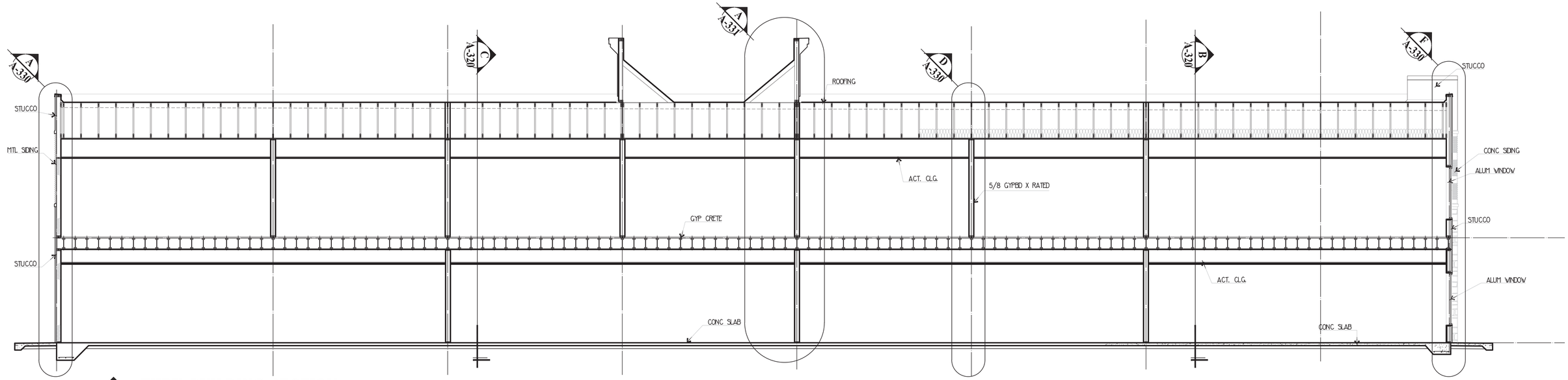
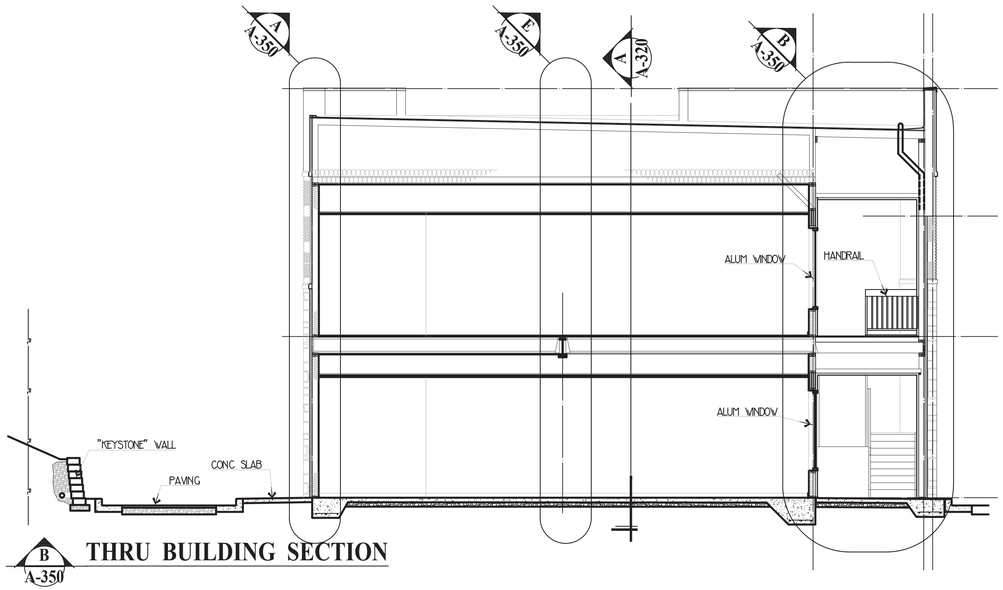
tadgi.com
864-553-2474

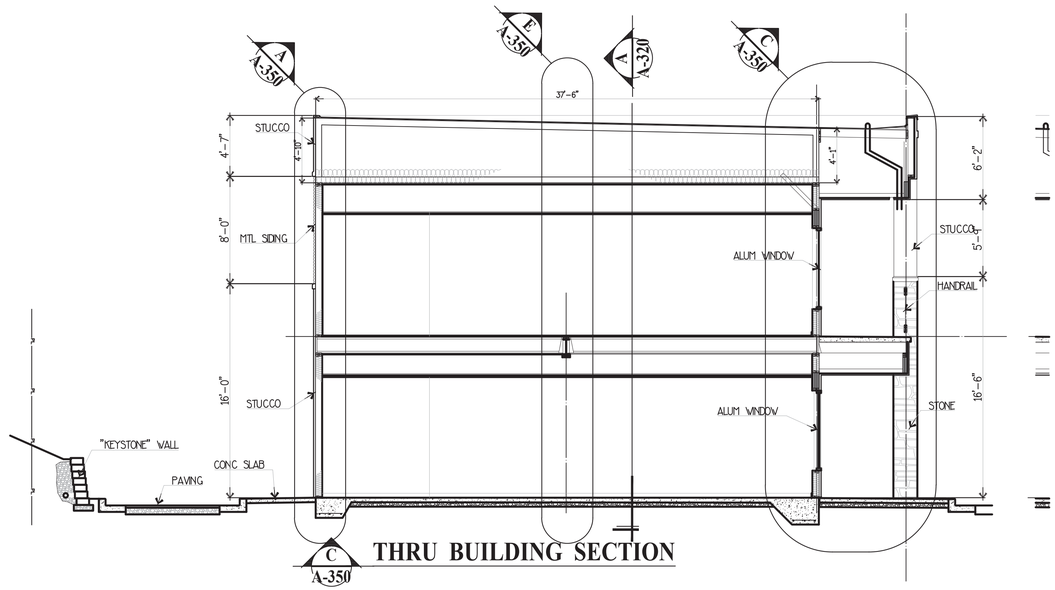
3/16" = 1'-0"
08/27/20
A-300
1525



A A-350 **THRU BUILDING SECTION**



B A-350 **THRU BUILDING SECTION**



C A-350 **THRU BUILDING SECTION**

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STATE OF GEORGIA
MICHAEL A. THOMAS
2482
REGISTERED ARCHITECT

JIMMY CARTER CONV. STORE
BUILDING SECTIONS

TK Design Group, Inc.

A-320

WALL SECT (A / A-330) @ NORTH EXT WALL

WALL SECT (B / A-330) @ EAST STAIR

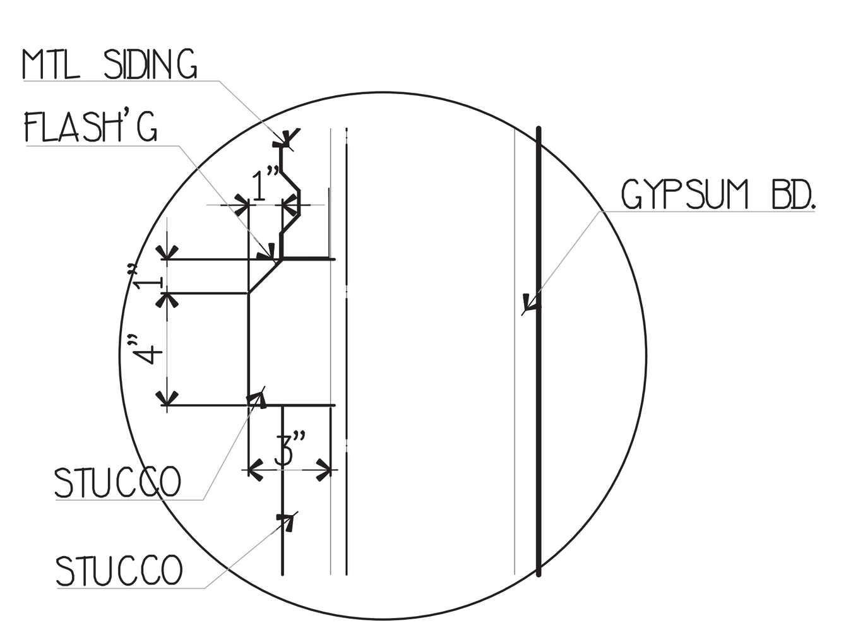
WALL SECT (C / A-330) @ WALKWAY

WALL SECT (D / A-330) @ WEST EXT WALL

WALL SECT (E / A-330) @ MID OF BUILDING

WALL SECT (F / A-330) @ INT WALL

WALL SECT (D / A-330) @ EAST EXT WALL



TYP STUCCO TRIM

GWINNETT COUNTY

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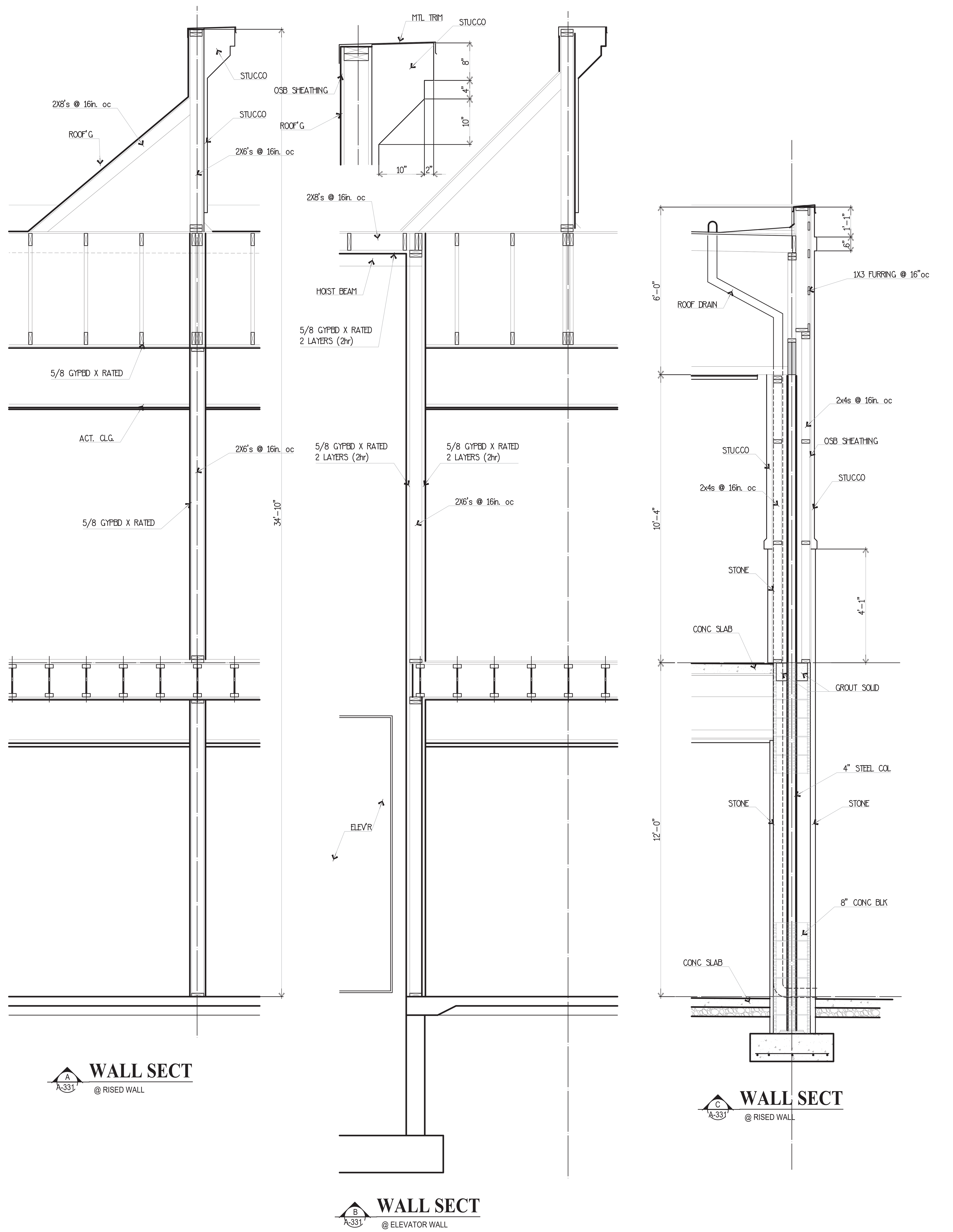
STATE OF GEORGIA
MICHAEL A. THOMAS
2482
REGISTERED ARCHITECT

JIMMY CARTER CONV. STORE

WALL SECTIONS

TA Design Group, Inc.

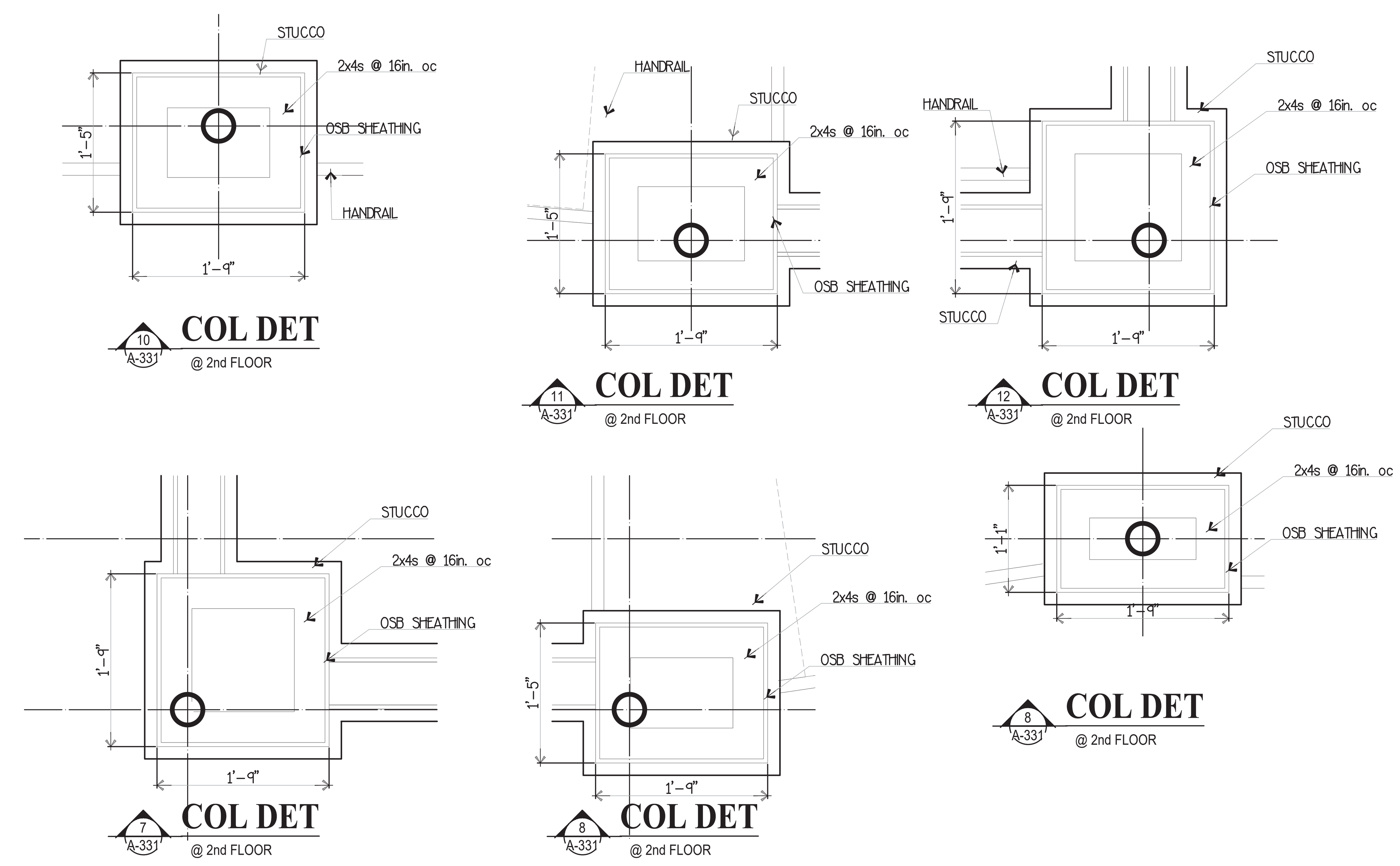
A-330



A-331 WALL SECT @ RISED WALL

B A-331 WALL SECT @ ELEVATOR WALL

C A-331 WALL SECT @ RISED WALL



10 A-331 COL DET @ 2nd FLOOR

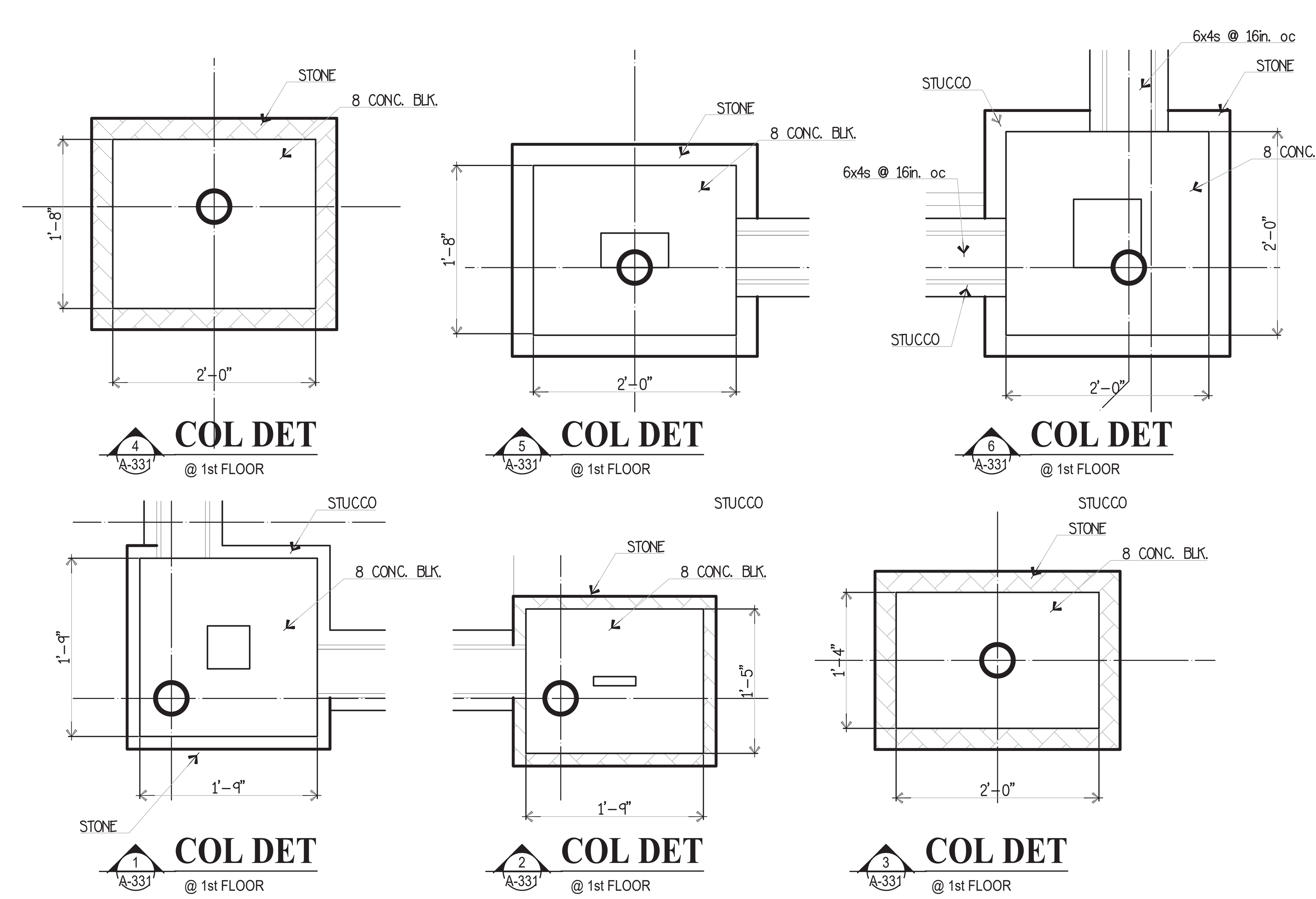
11 A-331 COL DET @ 2nd FLOOR

12 A-331 COL DET @ 2nd FLOOR

7 A-331 COL DET @ 2nd FLOOR

8 A-331 COL DET @ 2nd FLOOR

8 A-331 COL DET @ 2nd FLOOR



4 A-331 COL DET @ 1st FLOOR

5 A-331 COL DET @ 1st FLOOR

6 A-331 COL DET @ 1st FLOOR

1 A-331 COL DET @ 1st FLOOR

2 A-331 COL DET @ 1st FLOOR

3 A-331 COL DET @ 1st FLOOR

GWINNETT COUNTY

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STATE OF GEORGIA MICHAEL A. THOMAS 2482 REGISTERED ARCHITECT

JIMMY CARTER CONV. STORE

WALL SECT'S & COL DET'S

TA Design Group, Inc.

A-331

GWINNETT COUNTY
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STATE OF GEORGIA
MICHAEL A. THOMAS
REGISTERED ARCHITECT

JIMMY CARTER CONV. STORE
DETAILS
Design Group, Inc.
A-340

A

CEILING/ROOF ASSEMBLY

DESIGN NO. GA-RC2601

APPROXIMATE CEILING WEIGHT: 5 psf
FIRE TEST: FM FC 172, 2-25-72

GYPSUM ASSOCIATION

Construction Type: Wood Joists, Gypsum Wallboard - Base layer 5/8 in. type X gypsum wallboard applied at right angles to wood joists 24 in. O.C. with 1-1/4 in. type S drywall screws 24 in. O.C. Face layer 5/8 in. type X gypsum wallboard or veneer base applied at right angles to joists through base layer with 1-7/8 in. type S drywall screws 12 in. O.C. at joints and intermediate joists. Face layer joints offset 24 in. from base layer joints, 1-1/2 in. type G drywall screws placed 2 in. back on either side of face layer end joints, 12 in. O.C. 1/2 in. plywood with exterior glue applied at right angles to top of joists with 8d nails. Ceiling provides one hour fire resistance protection for wood framing.

ICBO EVALUATION SERVICE, INC.

Evaluation Report Report No. 1632
December, 1988

Gypsum Wall and Ceiling Assemblies
Gypsum Association
1800 North Highland Avenue, Suite 210
Hollywood, California 90028

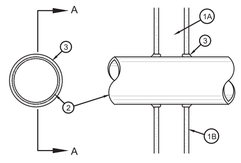
D. One-hour Wallboard Floor-Ceiling or Roof-Ceiling Assembly and Wood Framing - The ceiling construction is identical to assembly FC5406 in the Gypsum Association Fire Resistance Design Manual. Alternate framing may consist of lower chords of trussed rafters, or pitched or flat trusses spaced a maximum of 24 in. on center. Alternate fasteners having the same spacing as the screws may be 1-7/8 in. 6-penney cooler, box or wallboard nails for the base ply and 2-3/8 in. 8-penney cooler, box or wallboard nails for the face ply. Type G drywall screws, 1-1/2 in. long are still required at the end joints of the gypsum wallboard face layer.

*Bearing the UL Classification Marking

B

PIPE PEN. at WALL

System No. WL1001
(Formerly System No. 147)
F Ratings-1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings-0, 1, 2, 3, and 4 Hr. (See Item 3)



SECTION A-A

1. Wall Asembly-The 1, 2, 3 or 4 hr. fire-rated gypsum wallboard/ stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs-Wall framing may consist of either wood studs (max. 2 hr. fire rated assemblies) or steel channel studs. Wood studs to consist of nom. 2 by 4 lumber spaced 16 in. O.C. with nom. 2 by 4 in. lumber end plates and cross braces. Steel studs to be min. 3-5/8 in. wide by 1-3/8 in. deep channels spaced max. 24 in. O.C.
   B. Wallboard, Gypsum*-Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 13-1/2 in.
2. Pipe or Conduit-Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe, nom 6 in. diam (or smaller) steel conduit, nom 4 in. diam (or smaller) steel electrical metallic tubing or Type L or (or heavier) copper tubing or nom 1 in. diam (or smaller) flexible steel conduit. When copper pipe or flexible steel conduit is used, max F Rating of firestop system (Item 3) is 2 h. Steel pipes or conduits larger than nom 4 in. diam may only be used in walls constructed using steel channel studs. A max of one pipe or conduit is permitted in the firestop system. Pipe or conduit to be installed near center of stud cavity width and to be rigidly supported on both sides of wall assembly.
3. Fill, Void or Cavity Material*-Caulk-Caulk fill material installed to completely fill annular space between pipe or conduit and gypsum wallboard and with a min 1/4 in. diam bead of caulk applied to perimeter of pipe or conduit at its egress from the wall. Caulk installed symmetrically on both sides of wall assembly. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

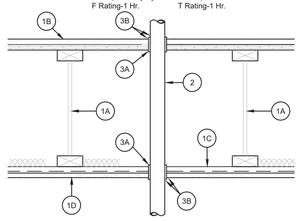
Max Pipe or Conduit Diam, In	Annular Space In	F Rating Hr	T Rating Hr.
1	0 to 3/16	1 or 2	0+, 1 or 2
1	1/4 to 1/2	3 or 4	3 or 4
4	0 to 1/4	1 or 2	0
6	1/4 to 1/2	3 or 4	0
12	3/16 to 3/8	1 or 2	0

+When copper pipe is used, T Rating is 0 h.
Minnesota Mining & Mfg. Co.-Types CP-25 S/L, CP-25 N/S, CP-25 WB, CP-25 WB+
*Bearing the UL Classification Marking

C

PIPE PEN. at CEILING/FLOOR

System No. FC2008
(Formerly System No. 451)
F Rating-1 Hr. T Rating-1 Hr.



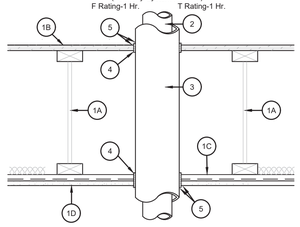
1. Floor Assembly-The fire rated wood truss or combination wood and steel truss Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual L500 Series Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Trusses-Min 12 in. deep parallel chord trusses fabricated from 2 by 4 in. lumber in conjunction with galv steel truss plates or Structural Wood Members* with bridging as required.
   B. Flooring-Nom 3/4 in. thick plywood flooring with or without Floor Topping Mixture*. Diam of hole-sawed opening in flooring to be 1/2 in. to 3/4 in. larger than diam of pipe. Max diam of opening in flooring is 3 in.
   C. Furring Channels-Rigid or resilient galv steel furring channels installed perpendicular to bottom chord of trusses.
   D. Wallboard, Gypsum*-Nom 4 ft. wide by 5/8 in. thick, screw-attached to furring channels. Diam of hole-sawed opening in gypsum wallboard ceiling to be 1/2 in. to 3/4 in. larger than diam of pipe. Max diam of opening in ceiling is 3 in.
2. Nonmetallic Pipe-Nom 2 in. diam (or smaller) Schedule 40 polyvinyl choride (PVC), SDR 17 chorinated polyvinyl chloride (CPVC) or solid-core Schedule 40 acrylonitrile-butadiene-styrene (ABS) pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. One pipe to be installed approx midway between trusses and centered in circular openings in flooring and in ceiling. A nom 1/4 in. to 3/8 in. annular space is required in the firestop system. Pipe to be rigidly supported on both sides of Floor-Ceiling assembly.
3. Firestop System -The details of the firestop system shall be as follows:
   A. Fill, Void or Cavity Materials*-Wrap Strip-Nom 1/4 in. thick intumescent elastomeric material faced on one side with aluminum foil, supplied to 2 in. wide strips. Nom 2 in. wide strip tightly-wrapped around nonmetallic pipe (foil side exposed), secured with two steel tie wires and slid into hole-sawed opening in flooring (Item 1B) and in gypsum wallboard ceiling (Item 1D). Bottom edge of wrap strip to project 9/16 to 11/16 in. below bottom surface of flooring and below bottom (ceiling) surface of gypsum wallboard.
      Minnesota Mining & Mfg. Co.-Type FS-195
   B. Fill, Void or Cavity Materials*-Caulk or Putty-Nom 1/4 in. thickness of caulk or putty to be applied to the exposed edges of the wrap strip layer (top of flooring and bottom of gypsum wallboard ceiling). Generous application of caulk or putty to be applied to fill all gaps at the wrap strip/flooring and wrap strip/gypsum wallboard ceiling interfaces.
      Minnesota Mining & Mfg. Co.-Type CP-25 WB, CP-25 WB+ Caulk, Type MP Putty

*Bearing the UL Classification Marking

D

PIPE PEN. at CEILING/FLOOR

System No. FC5002
(Formerly System No. 454)
F Rating-1 Hr. T Rating-1 Hr.



1. Floor Assembly-The fire rated wood truss or combination wood and steel truss Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual L500 Series Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Trusses-Min 12 in. deep parallel chord trusses fabricated from nom 2 by 4 in. lumber in conjunction with galv steel truss plates or Structural Wood Members* with bridging as required.
   B. Flooring-Nom 3/4 in. thick plywood flooring with or without Floor Topping Mixture*.
      Max Diam of hole-sawed opening in flooring is 7 in.
   C. Furring Channels-Rigid or resilient galv steel furring channels installed perpendicular to bottom chord of trusses.
   D. Wallboard, Gypsum*-Nom 4 ft. wide by 5/8 in. thick, screw-attached to furring channels. Diam of hole-sawed opening in gypsum wallboard ceiling is 7 in.
2. Pipe-Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel pipe or nom 3 in. diam (or smaller) Type L (or heavier) copper pipe. Pipe to be installed approximately midway between trusses and centered in circular cutouts in flooring (Item 1B) and gypsum wallboard ceiling (Item 1D). Diam of circular cutouts in flooring and gypsum wallboard ceiling to be 1/2 to 3/4 in. larger than outside diam of pipe covering (Item 3) or tube insulation (Item 3A) on pipe. Pipe to be rigidly supported on both sides of Floor-Ceiling assembly.
3. Pipe Covering*-Nom 1 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt strip tape supplied with the product.
   See Pipe and Equipment Covering-Materials* (BRGU) category in Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
3A. Tube Insulation-Plastics+-As an alternate to the glass fiber pipe covering (Item 3), nom 1/ 2 of 5/8 in. thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing with skin may be used.
   See Plastics (QMFZ2) category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5Va may be used.
4. Fill, Void or Cavity Materials*-Wrap Strip-Nom 1/4 in. thick intumescent elastomeric material faced on one side with aluminum foil, supplied in 2 in. wide strips. Nom 2 in. wide strip tightly wrapped around pipe covering or tube insulation (foil side exposed), secured with two steel tie wires and slid into hole-sawed opening in flooring (Item 1B) and in gypsum wallboard ceiling (Item 1D). Bottom edge of wrap strip to project 9/16 to 11/16 in. below bottom surface of flooring and below (ceiling) surface of gypsum wallboard.
      Minnesota Mining & Mfg. Co.-Type FS-195
5. Fill, Void or Cavity Materials*-Caulk-Nom 1/4 in. thickness of caulk to be applied to the exposed edge of the wrap strip layer (top of flooring and bottom of gypsum wallboard ceiling). Generous application of caulk to be applied to fill all gaps at the wrap strip/flooring and wrap strip/gypsum wallboard ceiling interfaces.
      Minnesota Mining & Mfg. Co.-Types CP-25 WB, CP-25 WB+

*Bearing the UL Classification Marking

TABLE NO. 7-B-RATED FIRE-RESISTIVE PERIODS FOR VARIOUS WALLS AND PARTITIONS [a] (Continued)

MATERIAL	ITEM NUMBER	CONSTRUCTION	MINIMUM FINISHED THICKNESS FACE-TO-FACE [2] (In Inches)			
			4 Hr	3 Hr	2 Hr	1 Hr
17. Wood studs-Interior partition with gypsum wall-board ea. side	17-1.3 [14,19]	2" x 4" wood studs 24" on center with 5/8" Type X gypsum wallboard applied vertically or horizontally nailed with 6d cooler or wallboard nails at 7" on center with end joints on nailing members. Stagger joints each side.				4 3/4

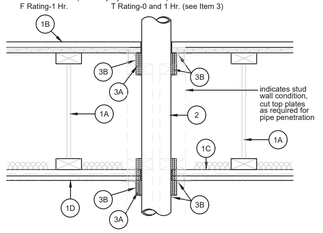
[14] Wood structural panels may be installed between the fire protection and the wood studs on either the interior or exterior side of the wood-frame assemblies in this table, provided the length of the fastener used to attach the fire protection are increased by an amount at least equal to the thickness of the wood structural panel.

E

PIPE PEN. at CEILING/FLOOR

(STUD WALLS SIMILAR)

System No. FC2009
(Formerly System No. 451)
F Rating-1 Hr. T Rating-0 and 1 Hr. (see Item 3)



1. Floor Assembly-The fire rated wood truss or combination wood and steel truss Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual L500 Series Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Trusses-Min 12 in. deep parallel chord trusses fabricated from nom 2 by 4 in. lumber in conjunction with galv steel truss plates or Structural Wood Members* with bridging as required.
   B. Flooring-Nom 3/4 in. thick plywood flooring with or without Floor Topping Mixture*. Diam of hole-sawed opening in flooring to be max 1/2 in. larger than diam of pipe. Max diam of opening in flooring 5 in.
   C. Furring Channels-Rigid or resilient galv steel furring channels installed perpendicular to bottom chord of trusses.
   D. Wallboard, Gypsum*-Nom 4 ft. wide by 5/8 in. thick, screw-attached to furring channels. Diam of hole-sawed opening in gypsum wallboard ceiling to be max 1/2 in. larger than diam of pipe. Max diam of opening in ceiling is 5 in. Secondary firestop system (Item 3) must be installed at underside of flooring prior to installation of the gypsum wallboard ceiling.
2. Nonmetallic Pipe-Nom 4 in. diam (or smaller) Schedule 40 polyvinyl choride (PVC), SDR 17 chorinated polyvinyl chloride (CPVC) or solid-core Schedule 40 acrylonitrile-butadiene-styrene (ABS) pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. One pipe to be installed approx midway between trusses and centered in circular openings in flooring and ceiling. Pipe to be rigidly supported on both sides of Floor-Ceiling assembly.
3. Firestop System -The hourly T Rating for the firestop system is dependent upon the type and size of nonmetallic pipe, as tabulated below:

Pipe Type	Nom Pipe Diam, In	Annular Space, In	T Rating Hr
ABS, PVC or CPVC	1/2 to 2	0 to 1/8	1
ABS	2 1/2 to 4	0 to 1/4	0
PVC or CPVC	2 1/2 to 4	0 to 1/4	1

   The details of the firestop system shall be as follows:
   A. Fill, Void or Cavity Materials*-Wrap Strip-Nom 1/4 in. thick intumescent elastomeric material faced on one side with aluminum foil, supplied in 2 in. wide strips. Nom 2 in. wide strip tightly-wrapped around nonmetallic pipe (foil side exposed) with the edges butted against the underside of the plywood flooring and against the bottom surface of the gypsum wallboard ceiling around the entire perimeter of the hole-sawed openings. Sufficient layers of wrap strip shall be installed to lap a min. of 3/16 in. on the plywood flooring and on the gypsum wallboard ceiling around the entire perimeter of the hole-sawed opening. For nom 1/2 in. to nom 2 in. diam pipes, a min of one layer of wrap strip is required. For nom 2-1/2 in. and nom 3 in. diam pipes, a min. of two layers of wrap strip. is required. For nom 3-1/2 in. and nom 4 in. diam pipes, a min of three layers of wrap strip is required. Each layer of wrap strip to be installed with butted seams, with butted seams in successive layers staggered. Wrap strip layer(s) temporarily held in position using aluminum foil tape, steel wire tie, or equivalent.
      Minnesota Mining & Mfg. Co.-Type FS-195
   B. Steel Collar-Nom 2 in. deep collar with 1-1/4 in. wide by 2 in. long anchor tabs and min 3/4 in. long tabs to retain wrap strips layers. Coils of precut 0.016 in. thick (30 gauge) galv sheet steel are available from wrap strip manufacturer. As an alternate, collar may be field fabricated from min. 0.016 in. thick (30 gauge) sheet steel in accordance with instruction sheet applied by wrap strip manufacturer. Steel collar, with anchor tabs bend outward 90 deg, wrapped tightly around wrap strip layers with min 1 in. overlap at the seam. With steel anchor tabs pressed tightly against underside of plywood flooring or underside of gypsum wallboard ceiling, compress collar around wrap strip layers using a min 1/2 in. wide by 0.028 in. thick stainless steel band clamp with worm drive tightening mechanism at the collar midheight. Secure collar to plywood flooring using min. 3/4 in. long steel screws on conjunction with 1-1/4 in. diam. steel fender washers. Secure collar to gypsum wallboard ceiling using 3/16 in. diam steel toggle bolts (5/8 in. grip) in conjunction with 1-1/4 in. diam steel fender washers. min of three fasteners, symmetrically located, required for nom 1/2 in. to nom 3 in. diam pipes. Min of four symmetrically located fasteners required for nom 3-1/2 in. and 4 in. diam pipes. As a final step, bend wrap strip retainer tabs 90 deg toward pipe to lock wrap strip layers in position.
   C. Fill, Void or Cavity Materials*-Caulk or Putty-Generous application of caulk or putty to be applied around the perimeter of the steel collar at its interface with the plywood flooring and gypsum wallboard ceiling. A generaous application of caulk or putty shall be applied around the perimeter of the pipe at its interface with the wrap strip layers.
      Minnesota Mining & Mfg. Co.-Type CP-25 W/B, CP-25 WB+ Caulk, Type MP Putty.
   D. Firestop Device*-(Not Shown)-As an alternate to items A, B and C for nom 1-1/2, 2, 3 or 4 in. diam nonmetallic pipes, a firestop device consisting of a sheet-steel split collar lined with intumescent material and provided with steel clips for attachment may be used. Firestop device to be installed on underside of plywood flooring or underside of gypsum wallboard ceiling around in accordance with the accompanying installation instructions.
      Minnesota Mining & Mfg. Co.-Type PPD 150, PPD 200, PPD 300, PPD 400.

*Bearing the UL Classification Marking

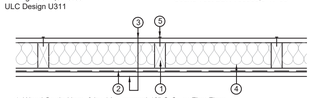
F

WALL ASSEMBLY

DESIGN NO U311

Design No. U311
Bearing Wall Rating-1 Hr.
Finish Rating-23 Min.
Fire Test-UL R1319-93,94,129
ULC Design U311,8-10-66

Sound Rating STC-50 to 54
GA File No.-WP 3230 (t)
Thickness-5 3/8"
Approx. Weight-7psf
Sound Test-BBN 760903,9-17-66



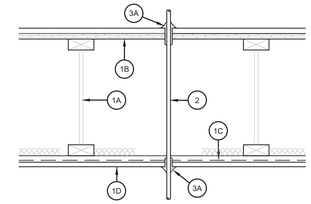
1. Wood Studs-Nom. 2 by 4 in., spaced 16" O.C., at First Floor. Effectively crossbraced.
2. Furring Channel-Resilient, 25 MSG galv. steel. Furring channels spaced vertically 24 in, O.C. flange portion screw attached to one side of studs with 1-1/4 in. long diamond-shaped point, double lead Phillips head steel screws.
3. Wallboard, Gypsum*-5/8 in. thick, 4 ft. wide. Screw attached one side to furring channels with 1 in. long, self-drilling, self-tapping steel screws spaced 12 in. O.C., vertical joints located midway between studs and back-blocked with furring channels, attached with 1 in. long self-drilling, self-tapping screws, spaced 12 in. O.C., along each edge. Wallboard attached other side to studs with 1-1/4 in. long diamond-shaped point, double lead Phillips head steel screws spaced 12 in. O.C., vertical joints located over studs.
      Canadian Gypsum Co., Ltd.-Type C
      Celotex Corp.-Type FRP
      Domtar Gypsum-Type 5
      Georgia-Pacific Corp., Gypsum Div.-Type GPFS-C
      Pabco Gypsum Co.-Type C or PG-C
      United States Gypsum Co.-Type C or IP-X2
4. Mineral Wool Batts*-3 in. thick sheets, supplied in 15 in. widths, placed to fill interior of wall, attached to the 4 in. face of the studs with staples placed 24 in. O.C.
      USG Interiors Inc.
      United States Gypsum Co.
5. Joints and Screwheads-Wallboard joints covered with paper tape and joint compound. Screwheads covered with joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced.

*Bearing the UL Classification Marking
*GA FILE NO.- WP3230 (+) allows fiberglass insulation.

G

CABLE PEN. at CLG./FLOOR

System No. FC3007
(Formerly System No. 452-A)
F Rating-1 Hr. T Rating-1 Hr.



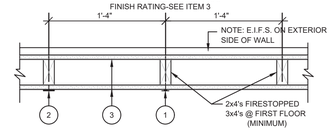
1. Floor Assembly-The fire rated wood truss or combination wood and steel truss Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual L500 Series Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Trusses-Min 12 in. deep parallel chord trusses fabricated from nom. 2 by 4 in. lumber in conjunction with galv steel truss plates or Structural Wood Members* with bridging as required.
   B. Flooring-Nom 3/4 in. thick plywood flooring with or without Float Topping Mixture*. Diam of opening hole-sawed in flooring to be 1 in.
   C. Furring Channels-Rigid or resilient galv steel furring channels installed perpendicular to bottom chord of trusses.
   D. Wallboard, Gypsum*-Nom 4 ft. wide by 5/8 in. thick, screw attached to furring channels. Diam of hole-sawed opening in gypsum wallboard ceiling to be 1 in.
2. Cables-Max seven conductor No. 12 AWG (or smaller) power/control cables or max. 100 pair No. 22 AWG (or smaller) telecommunication cables with polyvinyl chloride insulation and jacket materials. Individual cables to be centered in nom. 1 in. diam. circular cutouts. Cables to be rigidly supported on both sides of Floor-Ceiling assembly.
3. Fill, void or Cavity Materials*-Caulk or Putty-Caulk or putty fill material forced into annular space throughout thickness of flooring and gypsum wallboard ceiling and with a min. 1/4 in. bead applied to perimeter of cable at its egress from the top of the flooring and the underside of the the gypsum wallboard ceiling.
      Minnesota Mining & Mfg. Co.-Type CP-25 WB Caulk, Type MP Putty

*Bearing the UL Classification Marking

H

WALL ASSEMBLY

(EXTERIOR & INTERIOR WALLS)
DESIGN NO. U305
BEARING WALL RATING-1 HR.
FINISH RATING-SEE ITEM 3



1. Nailheads - Exposed or covered with joint compound.
2. Joints - Exposed or covered with fiber tape and joint compound, except where required for specific edge configuration. For tapered, rounded-edge wallboard, joints covered with joint compound or fiber tape and joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced.
3. Wallboard, Gypsum* - 5/8 in. thick wallboard paper or vinyl surfaced, with beveled, square, or tapered edges. Wallboard nailed 7 in. O.C. with 6d cement-coated nails 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam heads. When used in widths of other than 48 in. wallboard is to be installed horizontally.
      Canadian Gypsum Co., Ltd. - Types SCX, SHX, WRX (finish rating 26 min), Type C (finish rating 26 min).
      Celotex Corp. - Type 1, Type SF3 (finish rating 20 min), Type A (finish rating 21 min), Type B (finish rating 20 min), Type C (finish rating 21 min) or FRP.
      Domtar Gypsum - Type C (finish rating 26 min), Type 4 (finish rating 26 min), Type 5 (finish rating 26 min), Type 6, Type 8 (finish rating 23 min) or Type 9 (finish rating 26 min).
      Georgia-Pacific Corp., Gypsum Div. - Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 20 min), Type GPFS3 (finish rating 20 min), Type GPFS4 (finish rating 20 min), Type GPFS6 (finish rating 26 min) or Type GPFS-C (finish rating 20 min).
      Gold Bond Building Products - Type FSW (finish rating 20 min), Type FSW-G (finish rating 20 min), Type FSW2 (finish rating 24 min), Type FSW3 (finish rating 20 min), Type FSW4 (finish rating 20 min), Type FSK (finish rating 20 min) or FSK-G (finish rating 20 min).
      Pabco Gypsum - Type PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), PG-3W (finish rating 20 min), PG-4 (finish rating 20 min), PG-6 (finish rating 23 min), PG-3WS (finish rating 20 min).
      Republic Gypsum Co. - Type RG-1 (finish rating 20 min), Type RG-2 (finish rating 20 min), Type RG-3 (finish rating 20 min) or Type RG-4 (finish rating 26 min), Type RG-6 (finish rating 20 min).
      Standard Gypsum Corp. - Type SGC (finish rating 20 min), Type SGC-3 (finish rating 20 min) or SGC-G (finish rating 20 min).
      United States Gypsum Co. - Type SCX (finish rating 26 min), Type C (finish rating 26 min), Type WRX (finish rating 26 min), Type WR-C (finish rating 26 min), Type D (finish rating 23 min). Type IP-X1 (finish rating 26 min), Type FCV (finish rating 26 min). Type IP-X2 (finish rating 26 min), Type SHX (finish rating 26 min) or Type SHC (finish rating 26 min).
      Weyerhaeuser Co., Gypsum Div. - Type DDN1 (finish rating 20 min), Type DDG2 (finish rating 20 min), Type DDW3 (finish rating 20 min) or Type DDDG3 (finish rating 20 min).
4. Steel Corner Fasteners - (Optional) - For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the wallboard, no greater than 2 in. from corner of wallboard, max spacing 16 in. O.C. Nailed to adjacent stud through tab using one No. 6d cement-coated nail per fastener. Corners of wall board shall be nailed to top and bottom plate using No. 6d cement-coated nails.
5. Batts and Blankets* (Not shown) - optional glass fiber or mineral wool insulation.
      Owens-Corning Fiberglas Corp.
      USG Interiors Inc.
      United States Gypsum Co.

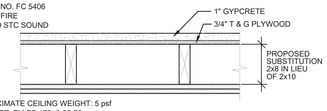
*Bearing the U.L. Classification Marking.

I

FLOOR/CEILING ASSEMBLY

AT CORRIDOR

GA FILE NO. FC 5406
1 HOUR FIRE
35 TO 39 STC SOUND



APPROXIMATE CEILING WEIGHT: 5 psf
FIRE TEST: FM FC 172, 2-25-72
SOUND TEST: ESTIMATED

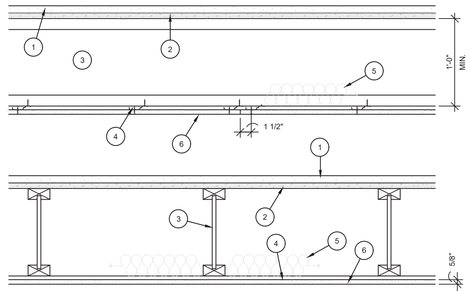
WOOD JOISTS, GYPSUM WALLBOARD,

Base layer 5/8" type X gypsum wallboard applied at right angles to 2x10 wood joists 24" o.c. with 1 1/4" Type W or S drywall screws 24" o.c. Face layer 5/8" type X gypsum wallboard or gypsum veneer base applied at right angles to joists with 1 7/8" Type S drywall screws 12" o.c. at joints and intermediate joists and 1 1/2" Type G drywall screws 12" o.c. placed 2" back on either side of end joints. Joints offset 24" from base layer joints. Wood joists supporting 1/2" plywood with exterior glue applied at right angles to joists with 8d nails. Ceiling provides one hour fire resistance protection for wood framing, including trusses.

NOTE:
THIS ASSEMBLY MUST BE APPROVED BY LOCAL BUILDING DEPARTMENT. IF 2x8 NOT APPROVED, THEN 2x10's MUST BE USED.

CEILING/FLOOR ASSEMBLY (ALL AREAS EXCEPT CORRIDORS)

DESIGN NO. NER-200



ASSEMBLY E-7 (ALL AREAS EXCEPT CORRIDORS)

1. Finish Flooring - Lightweight concrete or Gypcrete.
2. Single-layer floor of 3/4-inch Tongue-and-Groove plywood.
3. TJI joist.
4. USG RC-1 channel at 16 inch on center.
5. USG Thermafiber mineral wool batts. (1")
6. 5/8-inch USG Type C Firecode Gypsum wallboard.

One-Hour, Fire-Resistive Floor-Ceiling Rating

Alternate Floor Systems - A minimum 5/8" plywood floor over joists spaced at amximum of 24" on center with either 1-1/2" of lightweight concrete or 1" of gypsum concrete may be considered as an alternate deck for the systems described previously. When the joists or trusses are limited to a maximum spacing of 20" on center, a 3/4" topping of gypsum concrete may be used. The gypsum concrete must be covered in a current evaluation report issued by the National Evaluation Service or the Building Officials and Code Administrators Internationals, Inc., the International Conference of Building Officials, and the Southern Building Code Congress International, Inc. The evaluation must include an evaluation for fire resistance involving the replacement of the above floor systems with the plywood and gypsum concrete system.

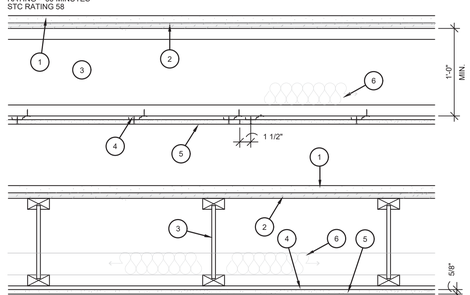
STC = 59 TEST # TL81-105 (ASTM E90 - 75) & E413-73

ALTERNATE:

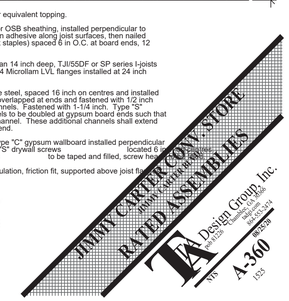
CEILING/FLOOR ASSEMBLY

(ALL AREAS EXCEPT CORRIDORS)

DESIGN NO. TJM/FCA 60-10
RATING - 60 MINUTES
STC RATING 58

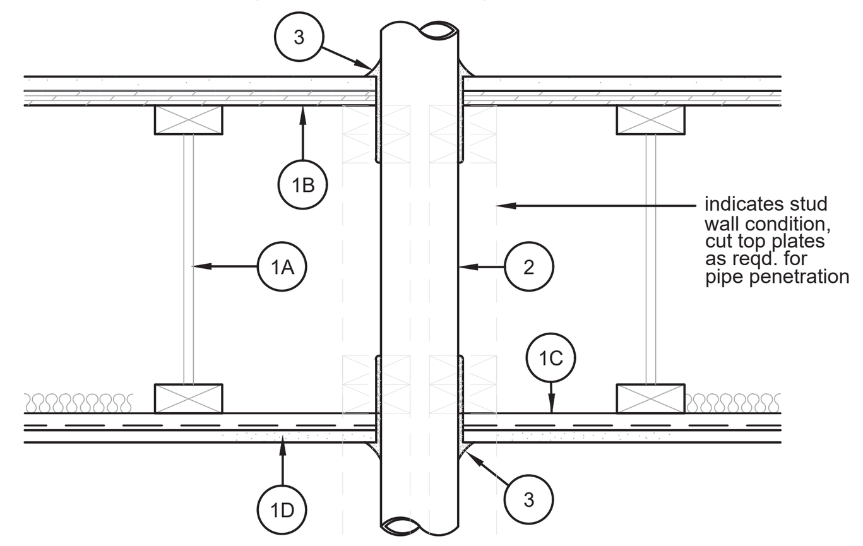


1. Topping - 1 inch thickness "Gypcrete" or equivalent topping.
2. Sub-Flooring - 3/4 inch T & G plywood or OSB sheathing, installed perpendicular to joists and fastened with exterior construction adhesive along joist surfaces, then nailed with 1-1/2 inch common nails (or equivalent staples) spaced 6 in O.C. at board ends, 12 inch O.C. along intermediate supports.
3. Structural Members - Trus Joist MacMillan 14 inch deep, TJI/55DF or SP series I-joists constructed with 7/16 in. OSB web and 2 x 4 Microllam LVL flanges installed at 24 inch on centres maximum.
4. Resilient Channels - Maximum 25 gauge steel, spaced 16 inch on centres and installed perpendicular to joists. Channels shall be overlapped at ends and fastened with 1/2 inch sheet metal screws to form continuous channels. Fastened with 1-1/4 inch. Type "S" screws at each joist intersection. Channels to be doubled at gypsum board ends such that each gypsum board end rests on its own channel. These additional channels shall extend to the next joist on either side of the board end.
5. Gypsum Board - One layer of 5/8 inch type "C" gypsum wallboard installed perpendicular to channels, fastened with 1-1/4 inch Type "S" drywall screws located 6 in Board ends to be staggered 48 inch. Joints to be taped and filled, screw he
6. Insulation - batt insulation, friction fit, supported above joist fl



J PIPE PEN. at CEILING/FLOOR
(STUD WALLS SIMILAR)

System No. FC1006
(Formerly System No. 453)
F Rating-1 Hr. T Rating-1 Hr.

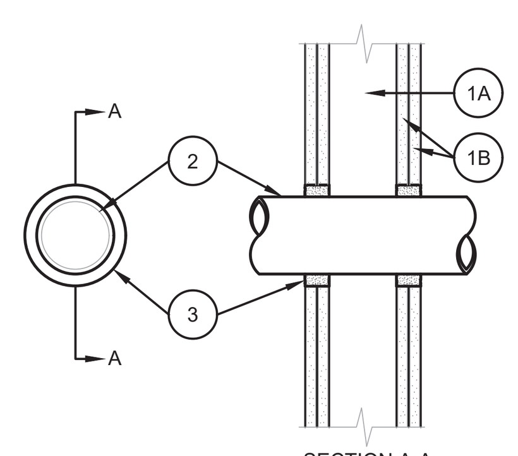


1. Floor Assembly-The fire rated wood truss or combination wood and steel truss Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual L500 Series Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Trusses-Min 12 in. deep parallel chord trusses fabricated from nom 2 by 4 in. lumber in conjunction with galv steel truss plates or Structural Wood Members* with bridging as required.
   B. Flooring-Nom 3/4 in. thick plywood flooring with or without Floot Topping Mixture*. Max diam of opening hole-sawed in flooring is 5 in.
   C. Furring Channels-Rigid or resilient galv steel furring channels installed perpendicular to bottom chord of trusses.
   D. Wallboard, Gypsum*-Nom 4 ft. wide by 5/8 in. thick, screw attached to furring channels. Max diam of hole-sawed opening in gypsum wallboard ceiling is 5 in.
2. Pipe or Conduit-Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel pipe, steel conduit or steel EMT, or cast iron pipe or nom 3 in. diam (or smaller) Type L (or heavier) copper tubing. Pipe to be installed approx midway between trusses and centered in circular cutouts in flooring (Item 1B) and gypsum wallboard ceiling (Item 1D). Diam of circular cutouts in flooring and gypsum wallboard ceiling to be 1/4 in. to 1/2 in. larger than diam of pipe. Pipe to be rigidly supported on both sides of Floor-Ceiling assembly.
3. Fill, Void or Cavity Materials*-Caulk-Caulk forced into annular space throughout the thickness of the flooring and gypsum allboard ceiling and with a min 1/4 diam bead of caulk applied to perimeter of pipe at its egres from the top of the flooring and the underside of the gypsum wallboard ceiling.
   Minnesota Mining & Mfg. Co.-Type CP-25 WB, CP-25 WB+

*Bearing the UL Classification Marking

P PIPE PEN. at FIRESTOP
(STUD WALLS SIMILAR)

System No. W-L-2067
F Rating-1 and 2 Hr. (See Item 1)
T Rating-1 and 2 Hr. (See Item 1)



1. Wall Assembly - The 1 or 2 hr. fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Stud - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom. 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min. 2-1/2 in. wide and spaced 24 in. OC.
   B. Wallboard, Gypsum* - 5/8 in. thick, 4 ft. wide square or tapered edges. The gypsum wallboard, type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max. diam. opening is 4-3/8 in.

The hourly F and T Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through-Penetrants - One nonmetallic pipe or conduit to be centered within the firestop system. The max. diam. of the through penetrant and annular space within the firestop system is dependent upon the type of fill material (Item 3). Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes or conduit may be used:
   A. Polyvinyl Chloride (PVC) Pipe - Nom. 2 in. diam. (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) piping systems.
   B. Chlorinated Polyvinyl Chloride (CPVC) Pipe - Nom. 2 in. diam. (or smaller) SDR 17 CPVC pipe for use in closed (process or supply) piping systems.
   C. Rigid Nonmetallic Conduit+ - Nom. 2 in. diam. (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).
3. Fill, Void or Cavity Material*-Sealant - In 2 hr. fire rated assemblies, min. 1-1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. In 1 hr. fire rated assemblies, min. 5/8 in. thickness of fill material applied within the annulus, on both surfaces of wall. Additional fill material to be installed such that a min. 5/8 in. thick crown is formed around the penetrating item and lapping a min. 1 in. beyond the periphery of the opening.
   The max. diam. of the through penetrant and annular space within the firestop system is dependent upon the type of fill material as tabulated below:

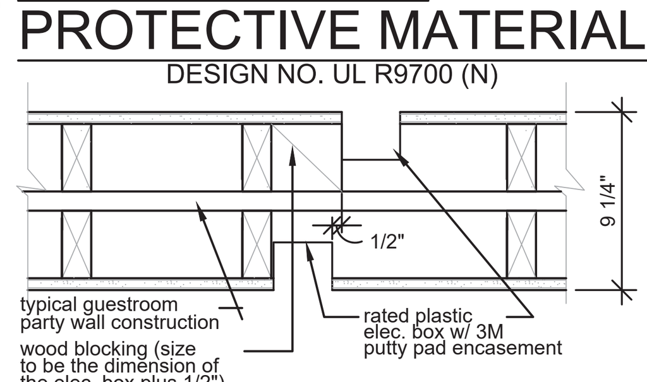
Max. Diam. of through Pennetrant In.	Nom. Annular Space In.	Fill Material Type
1	1/2	EP
2	1	I

Isolatek International - Types EP and I

+ Bearing the UL Listing Mark
* Bearing the UL Classification Marking

M WALL OPENING PROTECTIVE MATERIALS (CLIV)

DESIGN NO. UL R9700 (N)



This category covers proprietary compositions which are used to maintain the hourly ratings of fire resistive walls partitions containing flush mounted devices such as outlet boxes electrical cabinets and mechanical cabinets. The individual Classifications indicate the specific applications and the method of installation for which the materials have been evaluated.
The basic standard used to investigate products in this category is ANSI/UL 263, "Fire Test of Building Construction and Materials".

LOOK FOR CLASSIFICATION MARKING ON PRODUCT

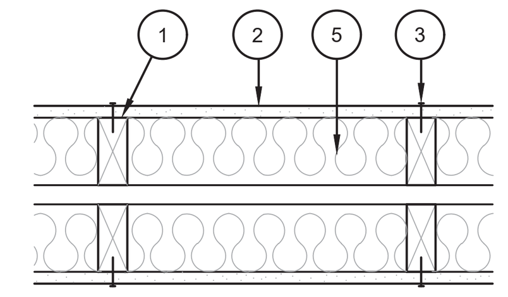
This Classification Marking of Underwriters Laboratories, Inc. (shown above) on the product or container is the only method provided by Underwriters Laboratories, Inc. to identify Wall Opening Protective Materials produced under its Classification and Follow-Up Service.

UNDERWRITERS LABORATORIES, INC.
CLASSIFIED
WALL OPENING PROTECTIVE MATERIAL
FIRE RESISTANCE CLASSIFICATION
SEE PRODUCT CATEGORY
IN UL FIRE RESISTANCE DIRECTORY

MINNESOTA MINING & MFG CO
3M CENTER, ST PAUL, MN 55144
Type MPP-4S+ moldable putty pads for use with max 4 11/16 by 4 11/16 in. flush device UL listed Metallic Outlet Boxes in fire rated gypsum wallboard wall assemblies framed with min 3 1/2 in. wide wood or steel studs and constructed as specified in the individual U300 or U400 Series Wall and Partition Designs in the Fire Resistance Directory. Moldable putty pads are to be installed to completely cover the exterior surface of the box within the stud cavity with a ball of putty material used to plug the end of each electrical metallic tube or conduit at its connection to the box. A min 1/8 in. thickness of putty material is required on the exterior surfaces of flush device boxes in 1 and 2 hr fire rated Wall and Partition Designs. When the moldable putty pad outlet box protective material is used as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the outlet boxes are not installed back to back.

K WALL ASSEMBLY

DESIGN NO. U341
BEARING WALL RATING-1 HR.
FINISH RATING-MINIMUM 20 MIN.



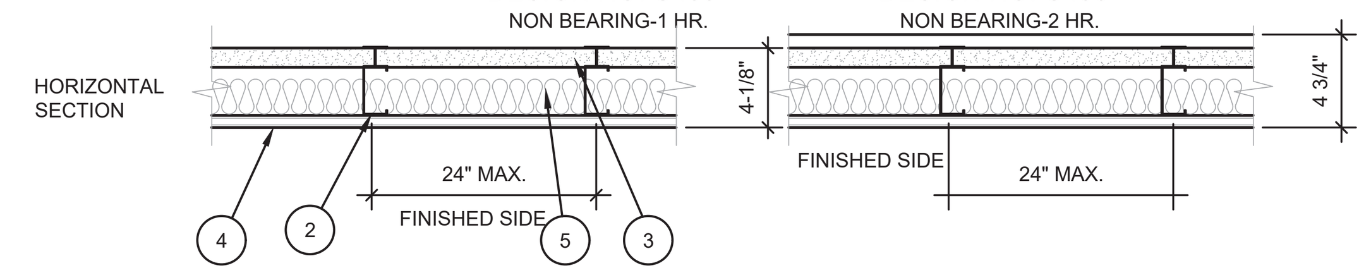
1. Wood Studs - Nom 2 by 4 in., spaced 24 in. O.C. max. Cross-braced at mid-height and effectively fire-stopped at top and bottom of wall.
2. Wallboard, Gypsum * - 5/8 in. thick 4 ft wide. Wallboard or lath applied horizontally or vertically and nailed to studs and bearing plates 7 in. O.C. with 6d cement-coated nails, 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam head. As an alternate, No. 6 bugle head drywall screws, 1-7/8 in. long, may be substituted for the 6d cement-coated nails.
3. Joints and Nailheads - Wallboard joints of outer layer covered with tape and joint compound. Nail heads of outer layer covered with joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard.
4. Sheathing - (Optional) - Septum may be sheathed with plywood or Mineral and Fiber Boards*. See Mineral and Fiber Boards (CERZ) category for names of Classified Companies.
5. Batts and Blankets* - 3-1/2 in. max thickness glass or mineral fiber batt insulation. Optional when sheathing (Item 4) is used on both halves of wall.
   See Batts and Blankets (BZJZ) category for list of Classified companies.

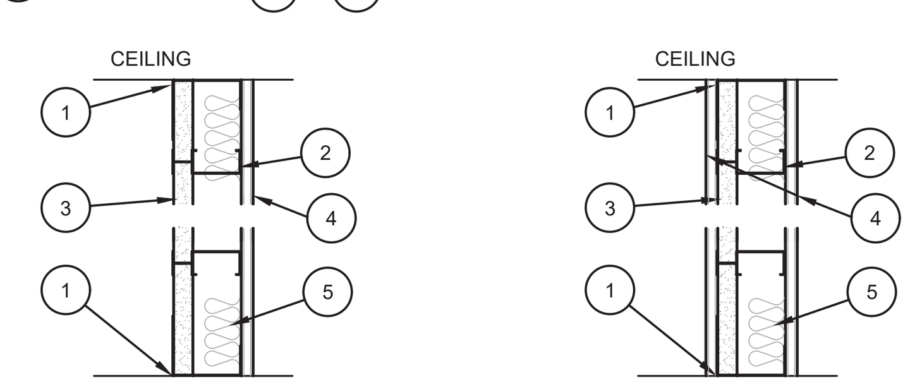
*Bearing the U.L. Classification Marking.

U WALL ASSEMBLY

DESIGN NO. U499
NON BEARING-1 HR.

DESIGN NO. U498
NON BEARING-2 HR.





1. **Channel Track** — "J" shaped channel, 2-1/2 in. wide with unequal legs of 1 in. and 2 in., fabricated from 25 MSG galv steel channel attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC.
2. **Steel Studs** — "I" shaped studs, min 2-1/2 in. deep by 1-1/2 in. wide, fabricated from min 25 MSG galv steel, spaced 24 in. OC. Vertically restrained walls require studs to be cut 1/2 in. less than floor to ceiling height.
2A. **Steel Studs** — (Not Shown) — "C-H" -shaped studs, min 2-1/2 in. deep by 1-1/2 in. wide, fabricated from min 25 MSG galv steel, spaced 24 in. OC. Vertically restrained walls require studs to be cut 1/2 in. less than floor to ceiling height.
2B. **Steel Studs** — (Not Shown) — "C-T" - shaped studs, min 2-1/2 in. deep by 1-1/2 in. wide, fabricated from min 25 MSG galv steel, spaced 24 in. OC. Vertically restrained walls require studs to be cut 1/2 in. less than floor to ceiling height.
2C. **Furring Channels** — (Optional, not shown) - Resilient furring channels fabricated from min. 25 MSG corrosion protected steel, installed horizontally, and spaced vertically a max. 24 in. OC. Flange portion of channel attached to each intersecting stud on side of stud opposite the
3. **Gypsum Board*** — 1 in. thick gypsum wallboard liner panels, supplied in nominal 24 in. widths. Vertical edges inserted in "I" studs. Free edge of end panels attached to long leg of channel track with 1-5/16 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 1 in. from both ends.

4. Gypsum Board* — 1/2 in. thick, 4 ft wide applied either horizontally or vertically and attached to studs and runners with 1 in. long Type S steel screws spaced 12 in. OC. When Furring Channels (Item 2C) are used, gypsum board attached vertically to furring channels with 1 in. long Type S steel screws spaced 12 in. OC. Outer layer joints covered with paper tape and joint compound. Exposed screw heads covered with joint compound.

When used in widths other than 48 in., gypsum board to be installed horizontally.

NATIONAL GYPSUM CO — Types FSK-C, FSW-G, FSW-C, FSMR-C.

4A. Gypsum Board* — (As an alternate to Item 4) — 5/8 in. thick. Installed as described in Item 4.
NATIONAL GYPSUM CO — Types FSMR-C, FSK, FSK-C, FSK-G, FSL, FSW-C, FSW-G, FSW, FSW-3, FSW-5 and FSW-6.

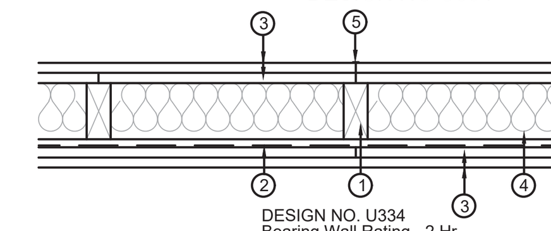
5. Batts and Blankets* — (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt bearing the UL Classification Marking as to Fire Resistance. See Batts and blankets (BZJZ)Category For Names of Classified Companies.
5A. Fiber, Sprayed* — 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

N WALL ASSEMBLY

DESIGN NO U334



DESIGN NO. U334
Bearing Wall Rating - 2 Hr.
STC Rating - 62 (See Item 7)

1. **Wood Studs** — Nom 2 by 4 in., spaced 16 in. OC. Studs cross braced at mid-height and effectively fire stopped at top and bottom of wall.
2. **Resilient Channel** — 25 MSG galv steel, nom 2-1/2 in. wide by 1/2 in. deep. Resilient channels placed perpendicular to studs, spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1 in. long Type S steel screws.
2A. **Steel Framing Members (Optional, Not Shown)*** — As an alternate to Item 2, furring channels and resilient sound isolation clip as described below:
   a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel.
   b. **Steel Framing Members*** — resilient sound isolation clip used to attach furring channels (Item a) to studs (Item 1). Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

   PAC INTERNATIONAL INC — Type RSIC-1.

3. **Gypsum Board*** — 5/8 in. thick, 4 ft wide. Attached to furring channels: base layer with 1 in. long Type S steel screws spaced max 24 in. OC, face layer with 1-5/8 in. long Type S steel screws spaced max 12 in. OC. Attached to wood studs: base layer with 1-7/8 in. long 6d coated nails spaced max 14 in. OC, face layer with 2-3/8 in. long 8d coated nails spaced max 7 in. OC. Base layers installed vertically. Face layers installed horizontally with butt joints offset 16 in. from base layers.

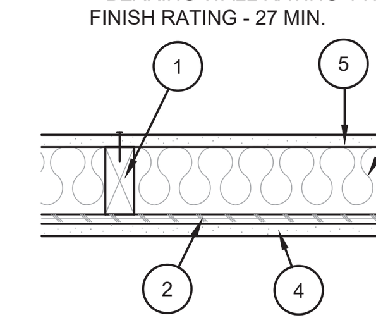
AMERICAN GYPSUM CO — Types AG-C
BPB AMERICA INC — ProRoc Type C.
BPB CANADA INC — ProRoc Type C.
CANADIAN GYPSUM COMPANY — Types C, IP-X2, IPC-AR.**G-P GYPSUM CORP, SUB OF GEORGIA-PACIFIC CORP** — Type 5.
LAFARGE NORTH AMERICA INC — Types LGFC-C, LGFC-
NATIONAL GYPSUM CO — Types FSK-C, FSW-C, FSW-G.

4. **Batts and Blankets*** — Nom 2 in. thick mineral wool insulation, 96 in. long, cut to 15 in. widths, friction fitted between studs in wall cavity.
THERMAFIBER INC — Type SAFB.
4A.. **Batts and Blankets*** — Glass fiber insulation. The cavities formed by the studs friction fit with R-19 unfaced fiberglass insulation batts measuring 6-1/4 in. thick and 15-1/4 in. wide. See Batts and Blankets* (BZJZ) category for names of Classified Companies.
5. **Joint Tape and Compound** — Vinyl, dry or premixed joint compound, applied to joints, screw heads, and nail heads (two applications); paper tape, 2 in. wide, embedded in first layer of compound over all joints.
6. **Caulking and Sealants** — (not shown, optional) A bead of acoustical sealant applied around the partition perimeter for sound control
7. **STC Rating** — The STC Rating of the wall assembly is 62 when it is constructed as described by Items 1 through 5, except:
   a. Item 2A, above - **Steel Framing Members*** Shall be used to attach wallboard to studs on either the acoustical source or receiving side of the wall assembly.
   b. Item 4a above - **Batts and Blankets*** As described above, fiberglass insulation shall be used.
   c. Item 6, above - **Caulking and Sealants** (not shown) A bead of acoustical sealant shall be applied around the partition perimeter for sound control.

*Bearing the UL Classification Mark

L WALL ASSEMBLY

DESIGN NO. U344
BEARING WALL RATING-1 HR.
FINISH RATING - 27 MIN.

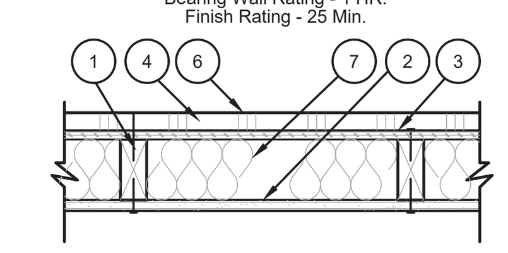


1. Wood Studs - Nom 2 by 4 in. spaced 24 in. OC, laterally braced, and effectively fire stopped at top and bottom.
2. Plywood Sheathing - Nom 15/32 in. thick, 4 ft. wide APA rated sheathing 32/16. Exposure 1, C-D grade plywood per PS 1-83 or PRP-108 specifications. Installed with long dimension of sheet (strength axis) or face grain of plywood, parallel with studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Horizontal joints backed with nom 2 by 4 in. wood backing. Attached to studs on exterior side of wall with 6d cement coated steel box nails spaced 12 in. OC along interior studs and 6 in. OC at perimeter of panels.
3. Batts and Blankets* - 3-1/2 in. thick foil-faced glass fiber batts. Supplied in rolls 23 in. wide. Density to be nom 0.70 pcf. Placed in stud cavity and secured to studs with 5/8 in. long steel staples spaced nom 12 in. OC.
   See Batts and Blankets* (BZJZ) category for names of classified Companies.
4. Wallboard Gypsum* - 5/8 in. thick, 4 ft. wide , applied horizontally or vertically. Attached to studs through plywood sheathing with 8d cement coated nails 2-3/8 in. long, 0.113 in. shank diam, 9/32 in. diam head nails spaced 7 in. OC along studs and at perimeter of panels. When used in widths other than 48 in., wallboard is to be installed horizontally. Joints exposed or covered with tape and compound.
   Canadian Gypsum Company - Type AR, C, IP-X2, SCX, SHX, WRC or WRX.
   National Gypsum Co., Riyadh, Saudi Arabia - Type FR or WR.
   United States Gypsum Company - Types AR, C, IP-X2, WRC, SCX,SHX, WRX.
   Yeso Panamericano SA de CV - Type AR, C IP-X2, SCX, SHX, WRC or WRX.
5. Wallboard, Gypsum * - 5/8 in. thick, 4 ft wide applied horizontally or vertically. Attached to studs or blocking at 7 in. OC with 6d cement coated nails, 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam. heads. When used in widths other than 48 in., wallboard to be installed horizontally. Joints exposed or covered with tape and compound.
   Canadian Gypsum Company - Type C or IP-X2.
   United States Gypsum Company - Type C or IP-X2.
   Yeso Panamericano SA de CV - Type C or IP-X2.

*Bearing the U.L. Classification Marking.

Q WALL ASSEMBLY

Design No. U335
(Exposed to Fire on Interior Face Only)
Bearing Wall Rating - 1 HR.
Finish Rating - 25 Min.



1. Wood Studs - Nom 2 by 4 in., spaced 16 in. O.C.
2. Wallboard, Gypsum* - 5/8 in. thick, 4 ft wide, applied vertically
   Attached to studs with 1-3/4 in. long steel drywall nails with 0.102 in. diam shank and 0.29 in. diam head, spaced 7 in. O.C. Vertical joints located over studs. Joints coverec with paper tape and joint compound. Nail heads covered with joint compound.
   See Wallboard, Gypsum (CKNX) category for names of manufacturers.
3. Plywood Sheathing - 1/2 in. thick, 4 ft wide, APA Rated Sheathing, interior with exterior glue conforming to PS 1-74. Applied vertically with vertical joints located over studs and staggered 16 in. min from wallboard joints. Horizontal joints are backed with nom 2 by 4 in. wood backing. Attached to the studs with 2 in. long galv roofing nails with a 0.122 in. diam shank and a 3/8 in. diam head, spaced 6 in. O.C. at the perimeter of the sheet and 12 in. O.C. in the field.

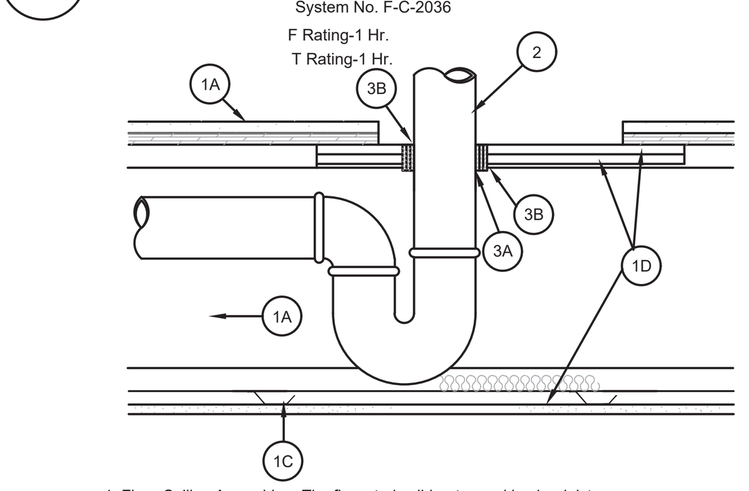
3A. Gypsum Sheathing and Exterior Facings - As an alternate to Plywood Sheathing (Item 3) - For exterior of wall, 5/8 in. thick (min) exterior regular gypsum sheathing applied vertically and attached to studs and runner tracks with 1 in. long Type S-12 bugle head screws spaced 12 in. O.C. along studs and tracks.

4. Foamed Plastic* - Min 1 in. thick, density of 1 pcf max, polystyrene foamed plastic insulation boards, supplied in 2 by 4 ft sheets. Positioned horizontally and staggered 16 in. O.C. vertically and attached to the Plywood Sheathing (Item 3) or as an alternate Gypsum Sheathing (Item 3A with Adhesive/Base Coat (Item 6) at a rate of 1-1/2 gal per 100 sq ft and (optional) four 2-1/4 in. long by 0.125 in. diam shank Phillip head screws with 1-3/4 in. diam plastic wafers with cap, located 2 in. from the corners of the foamed plastic.
   Associated Foam Manufacturers - Type WSG.
5. Non-Metallic Fabric Mesh - (Not Shown) - Glass fiber fabric mesh, weighing approx 2.5 oz per sq yd, positioned vertically over the foamed plastic (Item 4) and secured at the top with 16 guage 3/8 in. long staples randomly spaced.
6. Wall and Patition Facings and Accessories - Coating System - The base coat is trowel applied over glass fiber fabric mesh (Item 5) at a rate of 2 gal per 100 sq ft. The textured wall finish is then applied over the base coat at a rate of 2-1/2 gal per 100 sq ft.
   Gaco Western Inc. - Types A-5200, -5207, -5214, -5216, -5218, -5250.
7. Insulation - 3-1/2 in. thick kraft paper face glass fiber insulation. Supplied in rolls 15 in. wide. Density to be nom 0.75 lb per cu ft. Placed in stud cavities and secured to studs with steel staples spaced nom 12 in. O.C.

* Bearing the UL Classification Marking

R FLOOR PENETRATION AT TUB

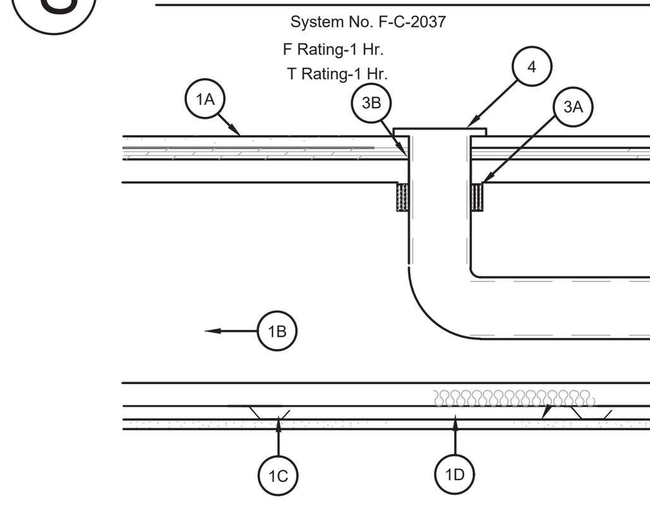
System No. F-C-2036
F Rating-1 Hr.
T Rating-1 Hr.



1. Floor-Ceiling Assembly -- The fire-rated solid or trussed lumber joist floor-ceiling assembly shall be construction of the materials and in the manner specified in individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction details of the floor-ceiling assembly are summarized below:
A. Floor System -- Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor Ceiling Design. Rectangular cutout in flooring to accommodate the bathtub drain piping (Item 2) to be max 8 by 12 in.
B. Wood Joists -- Nom 2 by 10 in. lumber joists spaced 16 in. OC with nom 1 by 3 in. lumber bridging and with ends firestopped. A an alternate to lumber joists, nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required with ends firestopped.
C. Furring Channels -- Resilient galv steel furring installed perpendicular to wood joist (Item 1B) between wallboard (Item 1D) and wood joists as required in the individual Floor-Ceiling Design.
D. Wallboard Gypsum* -- Nom 4 ft wide by 5/8 in. thick as specified in the individual Floor-Ceiling Design. Wallboard secured to wood joists as specified in the individual Floor-Ceiling Design. Two pieces of gypsum wallboard, each min 4 in. longer and wider than the cutout in the flooring, screw-attached to bottom of flooring concentric with cutout. Diam of opening hole-sawed through both layers of the gypsum wallboard patch to be 1/2 to 5/8 in. larger than outside diam of bathtub drain piping (Item 2).
2. Drain Piping -- Nom 1-1/2 in. diam. Schedule 40 polyvinyl chloride (PVC) or acrylonitrile butadiene styrene (ABS) pipes and drain fittings cemented together and provided with PVC or ABS bathtub waste/overflow fittings, respectively.
3. Firestop System -- The firestop system shall consist of the following:
A. Fill, Void or Cavity Materials* -- Wrap Strip -- Nom 1/4 in. thick intumescent material faced on both sides with a plastic film, supplied in 1-1/2 in. Nom 1-1/2 in. wide aluminum foil tape and slid into hole-sawed opening in gypsum wallboard path (Item 1D). Top edge of wrap strip to extend a nom 1/2 in. below above top surface of gypsum wallboard patch.
Specified Technologies Inc. -- SpecSeal RED Strip
B. Fill, Void or Cavity Materials* -- Sealant -- Nom 1/4 in. thickness of fill material to be applied to perimeter of wrap strip at it's egress from the underside of the gypsum wallboard patch. Nom 1/4 in. thickness of fill material to be applied to the exposed edge of the wrap strip layer and to fill all gaps between the wrap strip layer and the tee of the drain fitting on the top surface of the gypsum wallboard patch.
Specified Technologies Inc. -- Spec Seal 100, 101 or 105 Sealant *Bearing the UL Classification Marking

S FLOOR AT WATER CLOSET

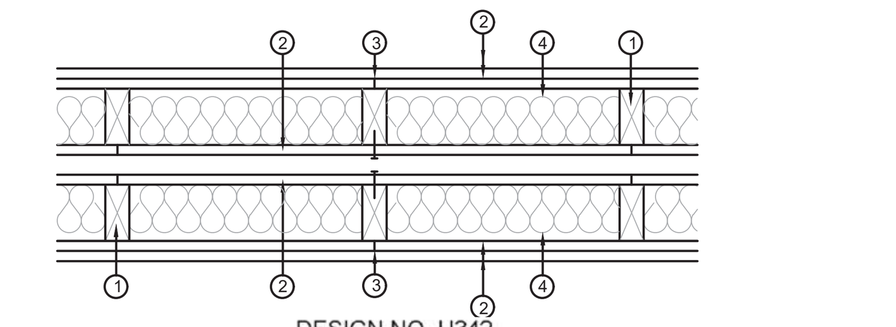
System No. F-C-2037
F Rating-1 Hr.
T Rating-1 Hr.



1. Floor-Ceiling Assembly -- The fire rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction details of the floor-ceiling assembly are summarized below:
   A. Flooring System -- Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Max diam of opening is 5 in.
   B. Wood Joists -- Nom 2 by 10 in. lumber joists spaced 16 in OC with nom 1 by 3 in. lumber bridging and with ends firestopped. As an alternate to lumber joists, nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required with end firestopped.
   C. Furring Channels -- Resilient galv steel furring installed perpendicular to wood joists (Item 1B) between wallboard (Item 1D) and wood joists as required in the individual Floor-Ceiling Design.
   D. Wallboard Gypsum* -- Nom 4 ft wide by 5/8 in. thick as specified in the individual Floor-Ceiling Design. Wallboard secured to wood joists as specified in the individual Floor-Ceiling Design.
2. Drain Piping -- Nom 4 in. diam (or smaller) Schedule 40 polyvinyl chloride (PVC) or acrylonitrile butadiene styrene (ABS) drain piping and fittings. Diam of circular opening hole through flooring (Item 1A) to be max 1/2 in. larger than outside diam of pipe. Short length of pipe with 90 degree elbow fitting cemented into bottom socket of closet flange (Item 5). Drain piping cemented to elbow.
3. Firestop System -- The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material * -- Wrap Strip -- Nom 1/4 in. thick intumescent material faced on both sides with plastic film, supplied in 1-1/2 in wide strips. Nom 1-1/2 in wide strips tightly-wrapped around nonmetallic pipe with the edges butted against the underside of flooring around the entire perimeter of the hole-sawed opening. Two layers of wrap strip ar required. Each layer of wrap strip to be installed with butted seam, butted seams in successive layers staggered or aligned. Wrap strip layer(s) temporarily held in position using aluminum foil tape.
   Specified Technologies Inc. -- SpecSeal RED Strip
   B. Steel Collar -- Collar fabricated from coils of precut 0.016 in. thick (30 MSG) galv sheet steel available from wrap strip manufacturer. Collar shall be nom 1-1/2 in. deep with min four 1 in. wide by 2 in. long anchor tabs for securement to top surface of flooring. Retainer tabs, 3/4 in. wide tapering down to 1/4 in. wide and located opposite the anchor tabs, are folded 90 degrees toward though-penetrate surface to maintain the annular space around the though-penetrate and to retain the wrap strips. Steel collar wrapped around wrap strips and through-penetrate with a 1 in. wide overlap along it's perimeter joint and secured together by means of min 1/2 in. wide by 0.028 in. thickness stainless steel hose clamp at mid-height of the steel collar. A an alternate to the steel hose clamp, the steel collar can be secured together by means of three No.8 by 3/8 in. long steel sheet metal screws. Anchor tabs of collar bent outwards and secured to top surface of flooring or underside of floor using min 3/4 in. long steel wood screws in conjunction with 1/4 in., by 1-1/4 in. diam steel fender washers.
4. Closet Flange -- PVC or ABS closet stub sized to accommodate drain pipe. Closet flange installed in hole-sawed opening in flooring system with flange secured to top of flooring with steel screws.
5. Water Closet -- (Not Shown) -- Floor mounted vitreous china

T WALL ASSEMBLY

DESIGN NO U342



DESIGN NO. U342
Bearing Wall Rating – 2 Hr.
Finish Rating – Min 59 min. HORIZONTAL SECTION

1. **Wood Studs** – Nom 2 by 4 in. Cross braced at mid-height and effectively firestopped at top and bottom of wall. Spaced a max of 16 or 24 in. OC depending on type of wallboard. See Item 2 below.
2. **Gypsum Board*** - 5/8 in. thick, 4 ft. wide. Applied either horizontally or vertically. Inner layers nailed to studs and bearing plates 6 in. O.C. with 6d cement coated nails, 1-7/8in. long, 0.0915 in. shank diam and ¼ in. diam head. Outer layer of double layered side nailed to studs and bearing plates 8 in. O.C. with 8d cement coated nails, 2-3/8 in. long, 0.113 in. shank diam and 9/32 in. diam head. Vertical joints located over studs. As an alternate, No. 6 bugle-head drywall screws, 1-7/8 or 2-3/8 in. long for the inner and outer layers, respectively, may be substituted for the cement coated nails. All joints in outer layer of double layer sides staggered with joints in inner layer.
   When Steel Framing Members* (Item 5) are used, base layer attached to furring channels, with 1 in. log Type S bugle-head steel screws spaced max 24 in. OC; face layer attached with 1-5/8 in. long Type S bugle-head steel screws spaced max 12 in. OC.
   NOTE: Only board types marked with + may be used in assemblies with 24 in. OC spaced of studs.
   AMERICAN GYPSUM CO – Type AG-C, AGX-11, AGX-C
   BEIJING NEW BUILDING MATERIALS CO LTD – Type DBX-1.
   BPB AMERICA INC
   BPB CELOTEX – Type 1 or FRP+.
   CANADIAN GYPSUM COMPANY – Types C+, IP-X1, IP-X2+, IPC-AR+, SCX, SHX, WRC+ FRX or WRX.
   CONTINENTAL GYPSUM COMPANY – Types CG-2, CG-3+, CG-3W, CG-3WS, CG-5W, CG-5WS, CG-6, CG-C, CG5-5+, CG6-6, CG9-9, CGTC-C.
   G-P GYPSUM CORP, SUB OF GEORGIA-PACIFIC CORP – Types 5+, 9 DGG, DS, C, GPFS6.
   JAMES HARDIE GYPSUM INC – Types Fire X, Max "C".
   LAFORGE NORTH AMERICA INC – Types LFC-C, LGFC2, LGFC2A, LGFC6, LGFC6A, LGFC-C/A.
   NATIONAL GYPSUM CO - Type FSK, FSK-1, FSW-C+ or FSW-G+.
   NORGIPS A/S – NORFIRE XA.
   PABCO GYPSUM, DIV OF PACIFIC COAST BUILDING PRODUCTS INC - Type C, PG-2, PG-3+, PG-3W, PG-3WS, PG-4, PG-5W, PG-5WS, PG-6 or PG-C.
   SIAM GYPSUM INDUSTRY CO LTD – Type EX-1.
   STANDARD GYPSUM LLC – Type SG-C, SGC or SCG-G+.
   TEMPLE-INLAND FOREST PRODUCTS CORP – Type TG-C.
   UNITED STATES GYPSUM CO – Type C+, FRX, FRX-G, X1, IP-X2+, IPC-AR+, SCX, SHX, WRC+ or WRX.
   WESTROC INC – Type Fi-Rok.
   USG MEXICO S A DE C V – Types C+, IP-X1, IP-X2+, IPC-AR+, SCX, SHX, WRC+, WRX.

2A. **Gypsum Board*** - ¾ in. thick, 4 ft. wide. Applied vertically to studs (spaced max 16 in. OC) and bearing plates 6 in. OC with 8d cement coated nails, 2-3/8 in. long, 0.113 in. shank diam and 9/32 in. diam heads or 2-3/8 in. long No. 6 bugle head drywall screws. When this single layer system is used Finished Rating is reduced to 26 min.
CANADIAN GYPSUM COMPANY – Type ULTRACODE, ULTRACODE SHC OR ULTRACODE WRC, SHC or ULTRACODE WRC.
   UNITED STATES GYPSUM CO – ULTRACODE, ULTRACODE SHC or ULTRACODE WRC, SHC or ULTRACODE WRC
   USG MEXICO S A DE C V – ULTRACODE, ULTRACODE SHc or ULTRACODE WRC.

3. **Joints and Nailheads** – Wallboard joints or outer layer covered with tape and joint compound. Nail heads of outer layer covered with joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard.
4. **Batts and Blankets*** - (Optional) – 3-1/2 in. max thickness glass or mineral fiber batt insulation. See **Batts and Blankets** (BZJZ) category of list of Classified companies.

4A. **Fiber, Sprayed*** - As an alternate to Batts and Blankets (Item 4) – 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 density of 3.0 lb/ft³.
   U S GREENFIBER LLC – Cocoon stabilized cellulose insulation

5. **Steel Framing Members (Optional, Not Shown)*** - Furring channels and resilient sound isolation clip as described below;
   a. **Furring Channels** – Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Wallboard attached to furring channels as described in Item 2.
   b. **Steel Framing Members*** - used to attach furring channels (Item a) to studs (Item 1). Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.
      PAC INTERNATIONAL – Type RSIC-1.

*Bearing the UL Classification Mark

GWINNETT COUNTY

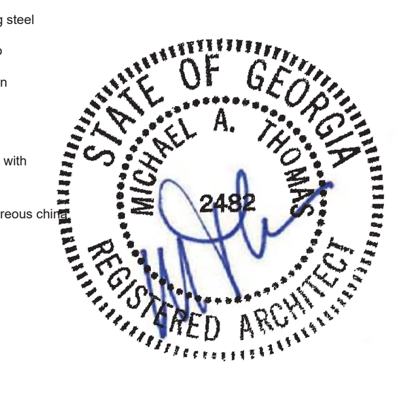
Department of Planning and Development

These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.

Sep 02, 2020

AUTHORIZED

BLD2020-04937

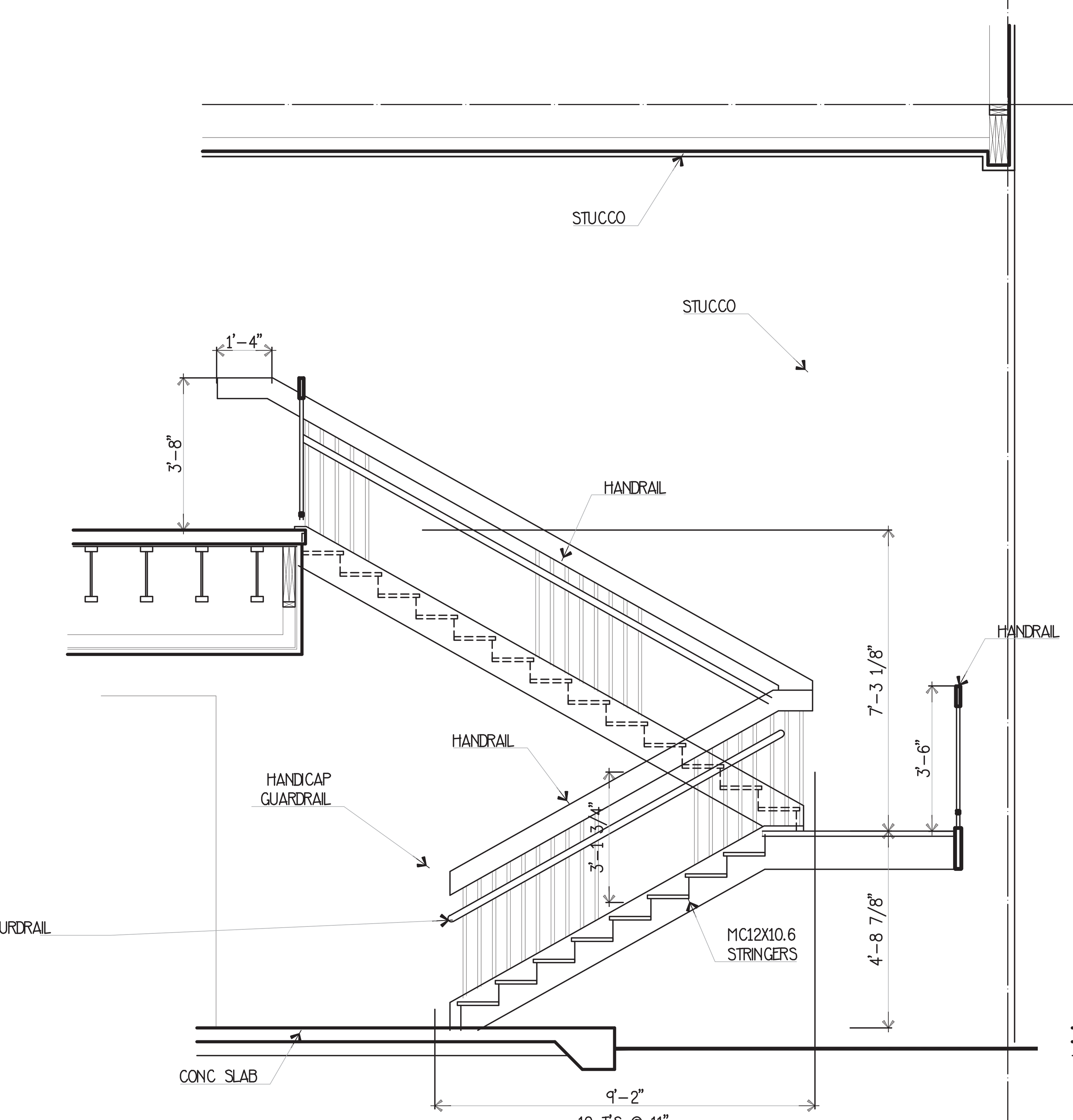


JIMMY CARTER CONV. STORE
JIMMY CARTER BLVD.
RATED ASSEMBLIES

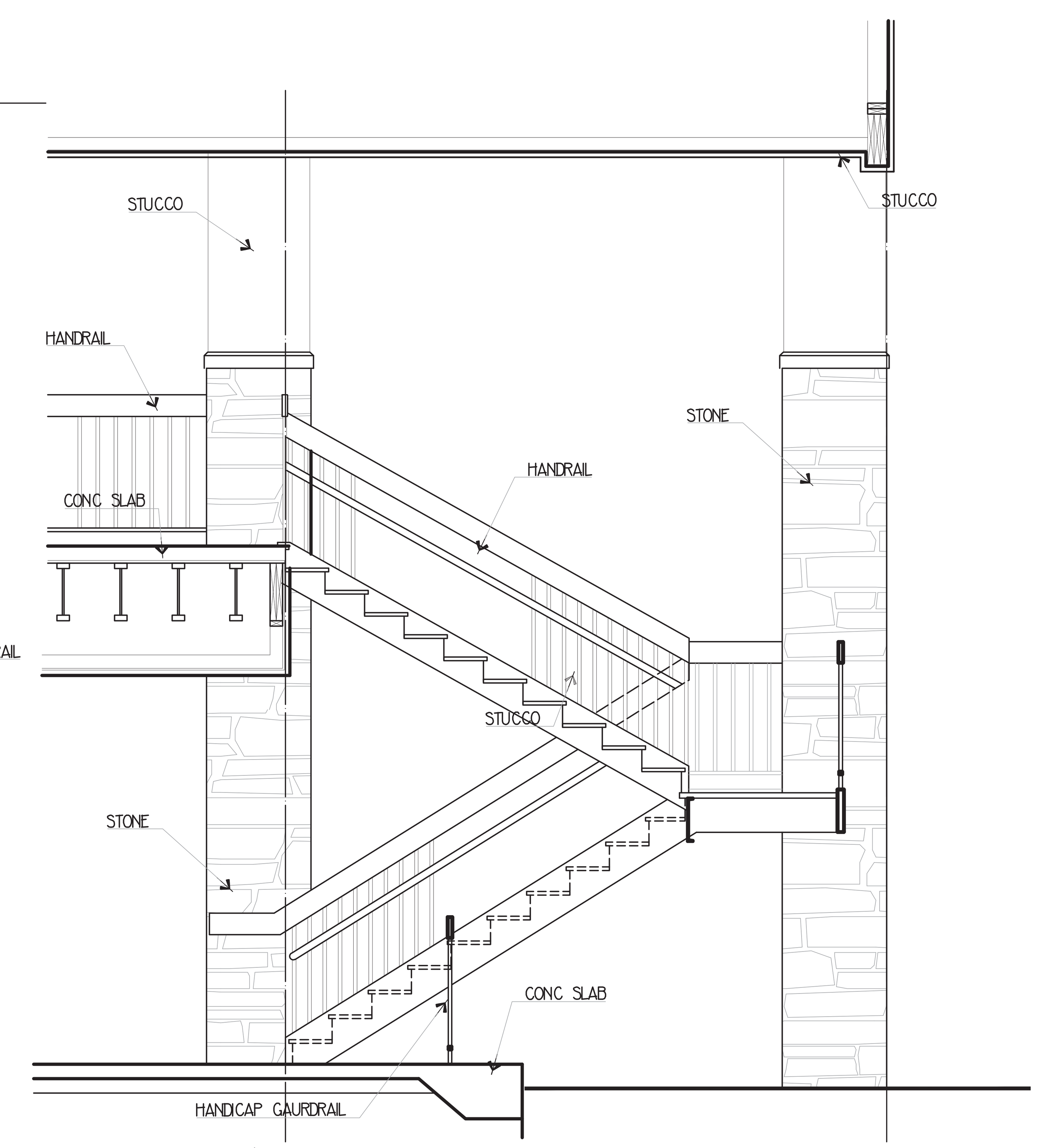
TA Design Group, Inc.
pob 81226 Chamblee, GA 30366
tadgi.com
864-553-2474
08/25/20
NTS
A-361
1525

NOTE: GUARD RAILS SHALL BE PROVIDED AT THE OPEN SIDE OF MEANS OF EGRESS THAT EXCEED 30 INCHES ABOVE THE FLOOR OR THE FINISHED GROUND LEVEL BELOW. THEY SHALL BE 42 INCHES IN HEIGHT AND HAVE INTERMEDIATE RAILS/PICKETS SUCH THAT A SPHERE 4INCHES IN DIAMETER IS NOT ABLE TO PASS THROUGH THE OPENING. LIFE SAFETY CODE 2018 EDITION SECTIONS 7.1.8 AND 7.2.2.4.5.

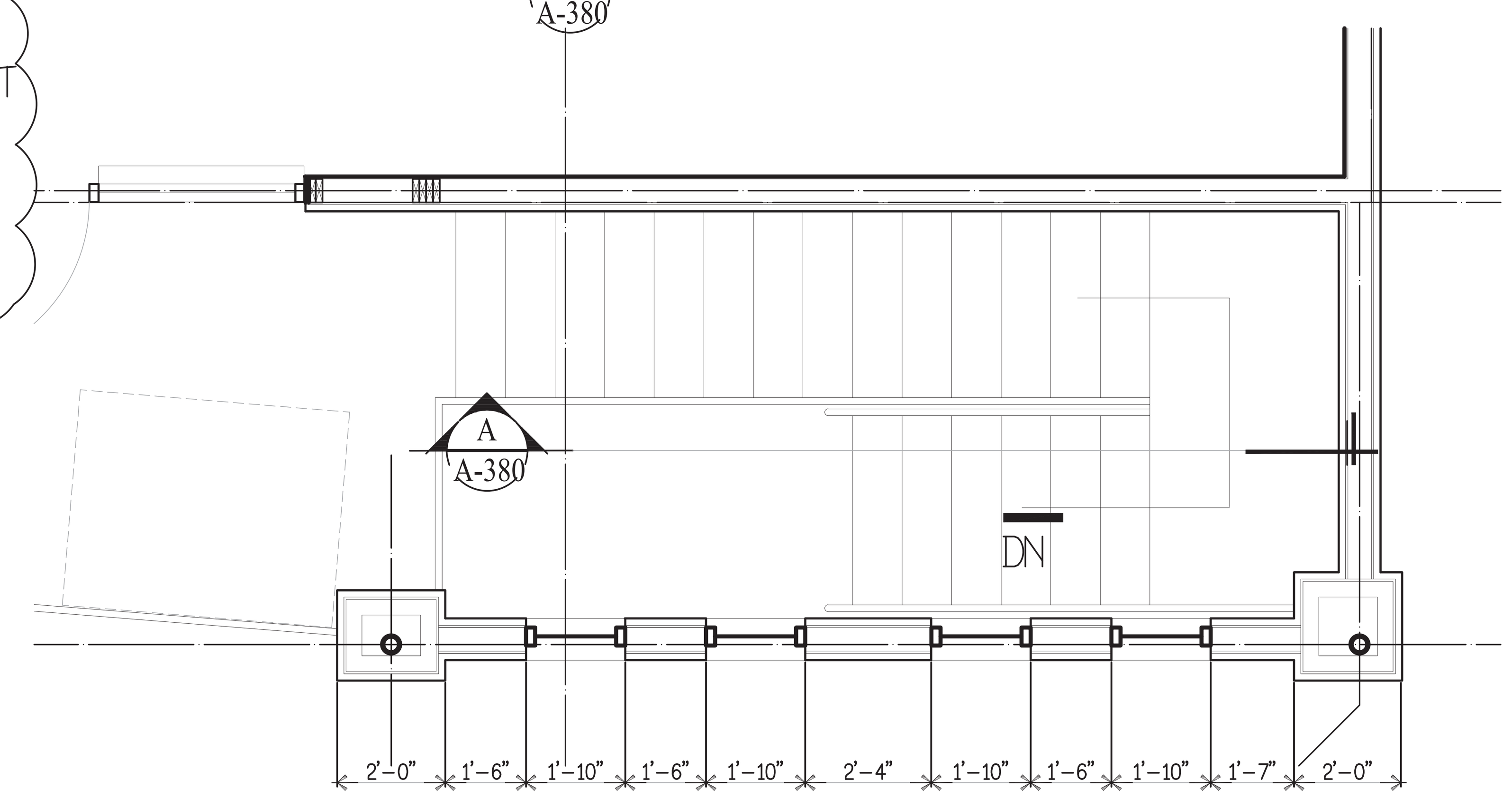
NOTE: (HANDRAIL DETAILS) NEW HANDRAILS ON STAIRS AND RAMPS SHALL BE PROVIDED ON BOTH THE SIDES AND SHALL NOT BE LESS THAN 34 INCHES AND NOT MORE THAN 38 INCHES, ABOVE THE SURFACE OF THE TREAD, MEASURED VERTICALLY TO THE TOP OF THE RAIL FROM THE LEADING EDGE OF THE TREAD . NFPA LIFE SAFETY CODE 2018 EDITION SECTION 7.2.2.4 AND THE 2010 ADA ACCESSIBLE DESIGN.

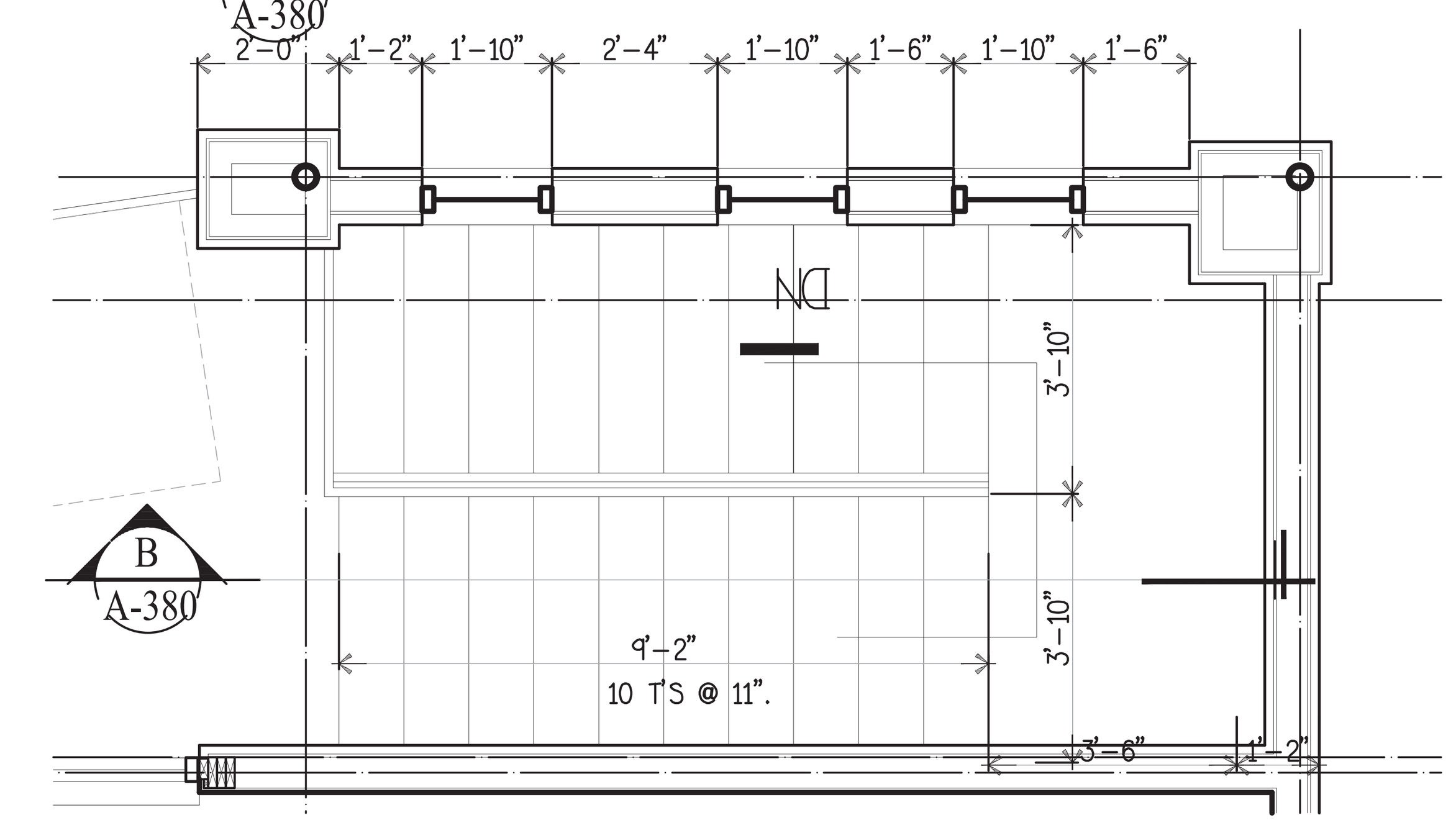


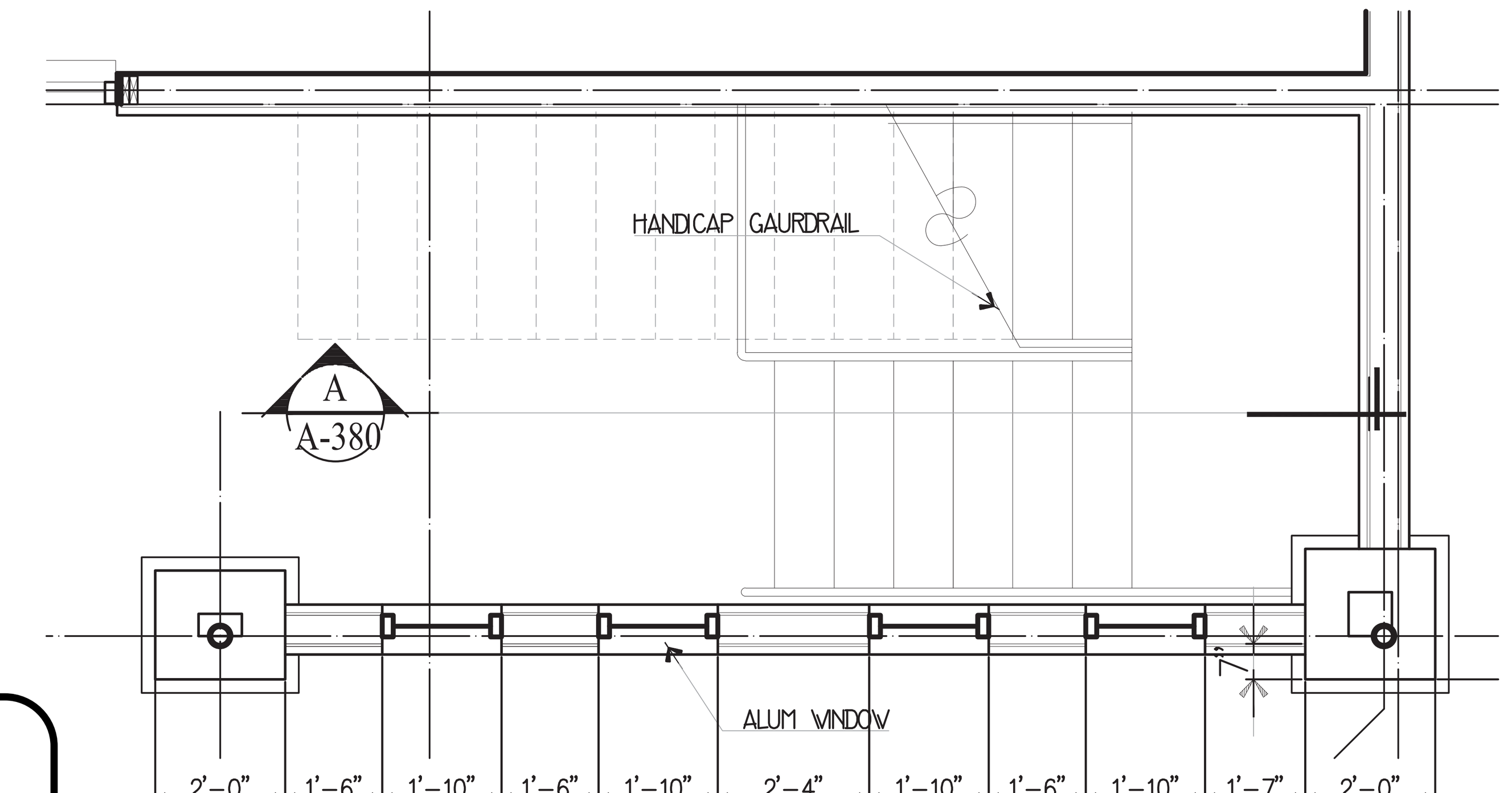
A A-380 **SECTION @ STAIR 2**

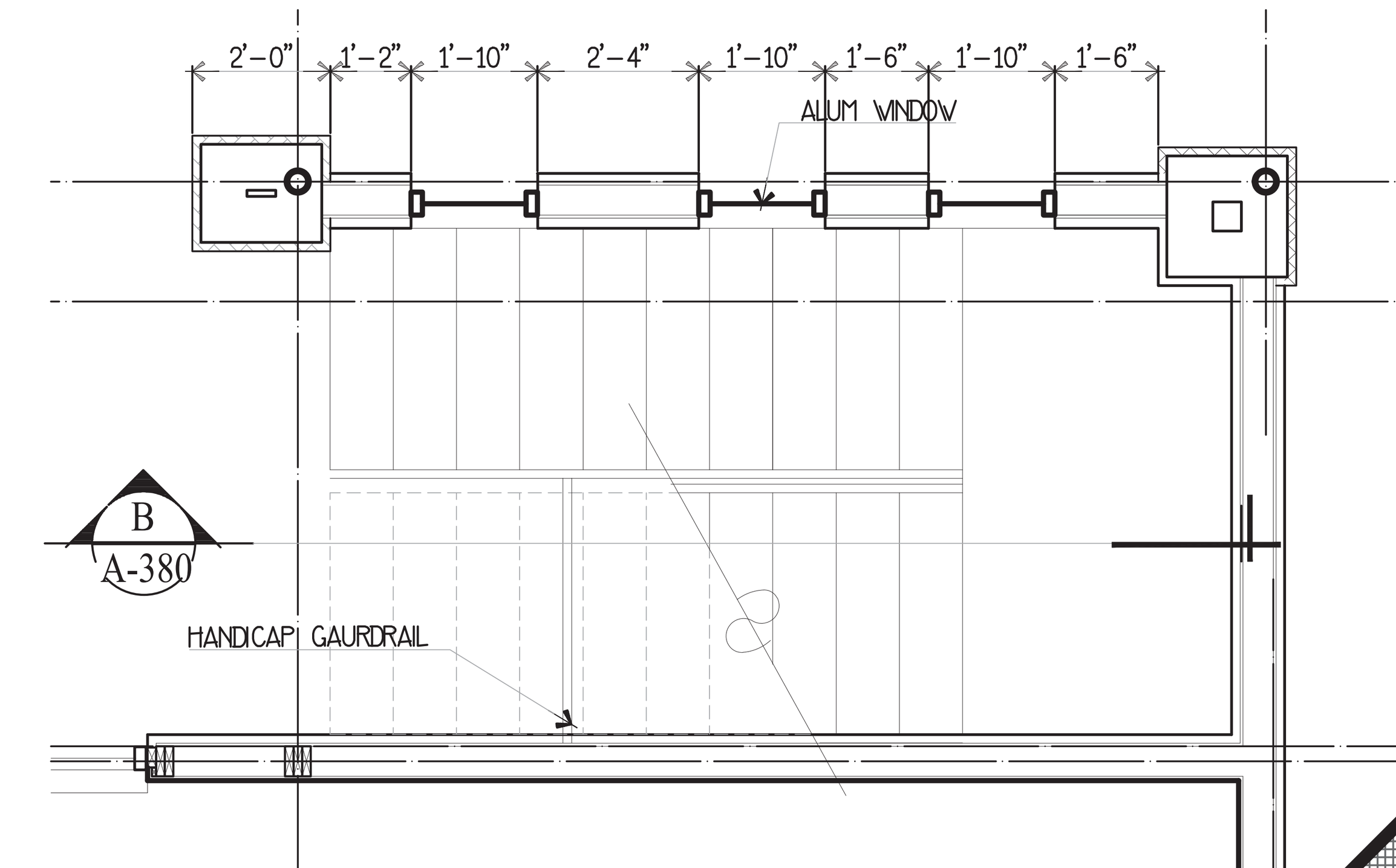


B A-380 **SECTION @ STAIR 1**









GWINNETT COUNTY

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Sep 02, 2020

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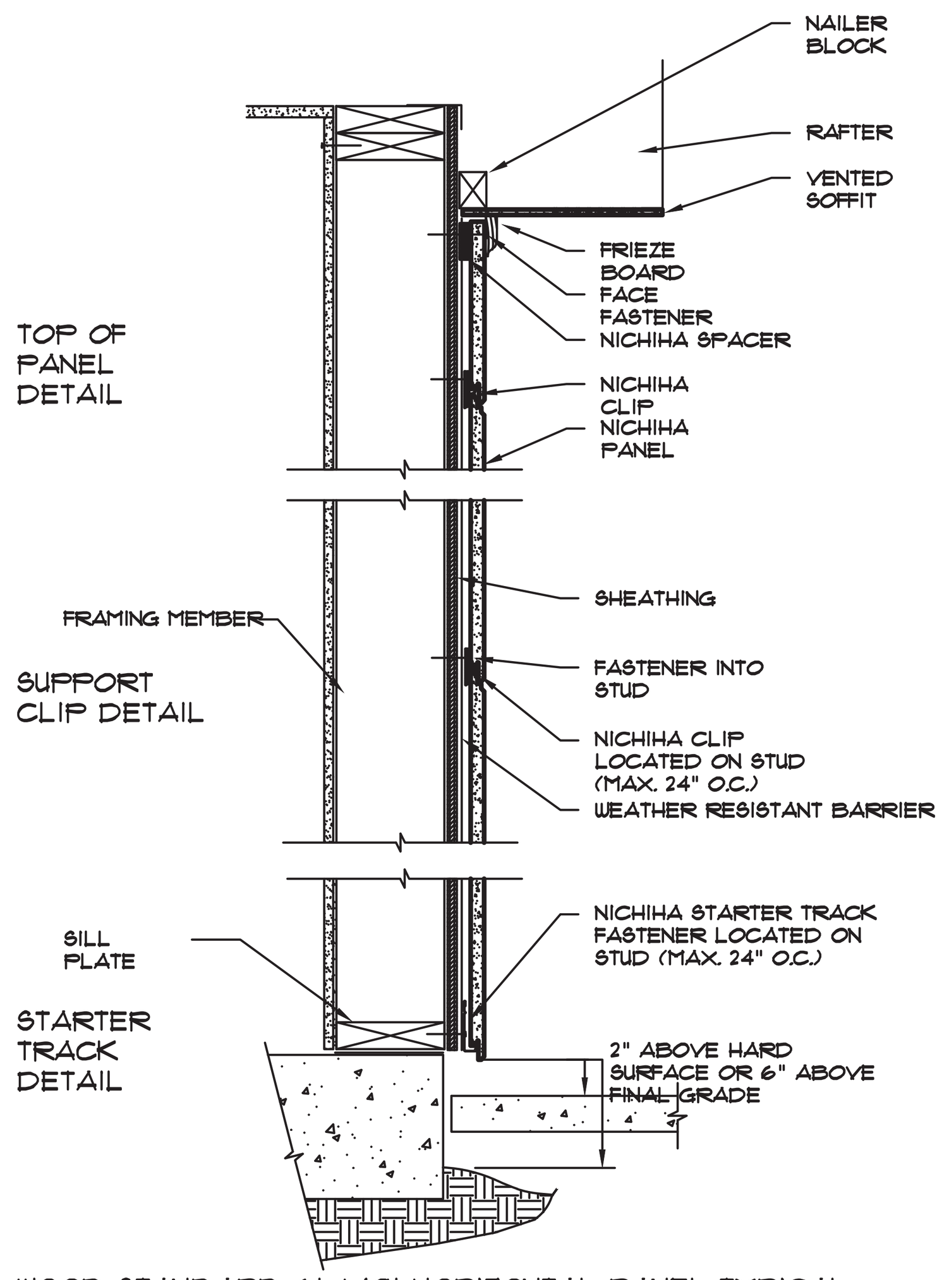
BLD2020-04937

JIMMY CARTER CONV. STORE

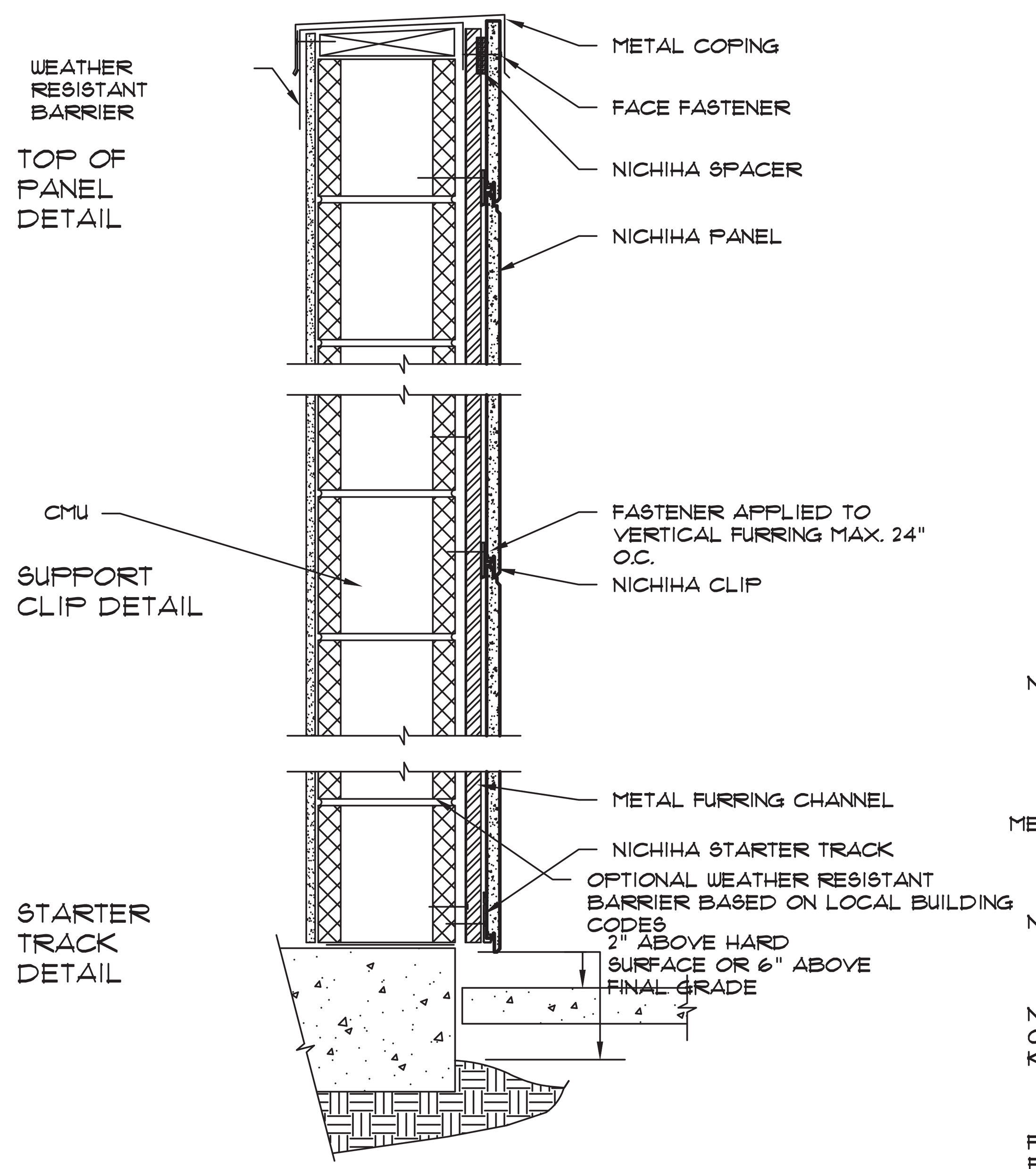
STAIR DETAILS

Design Group, Inc.

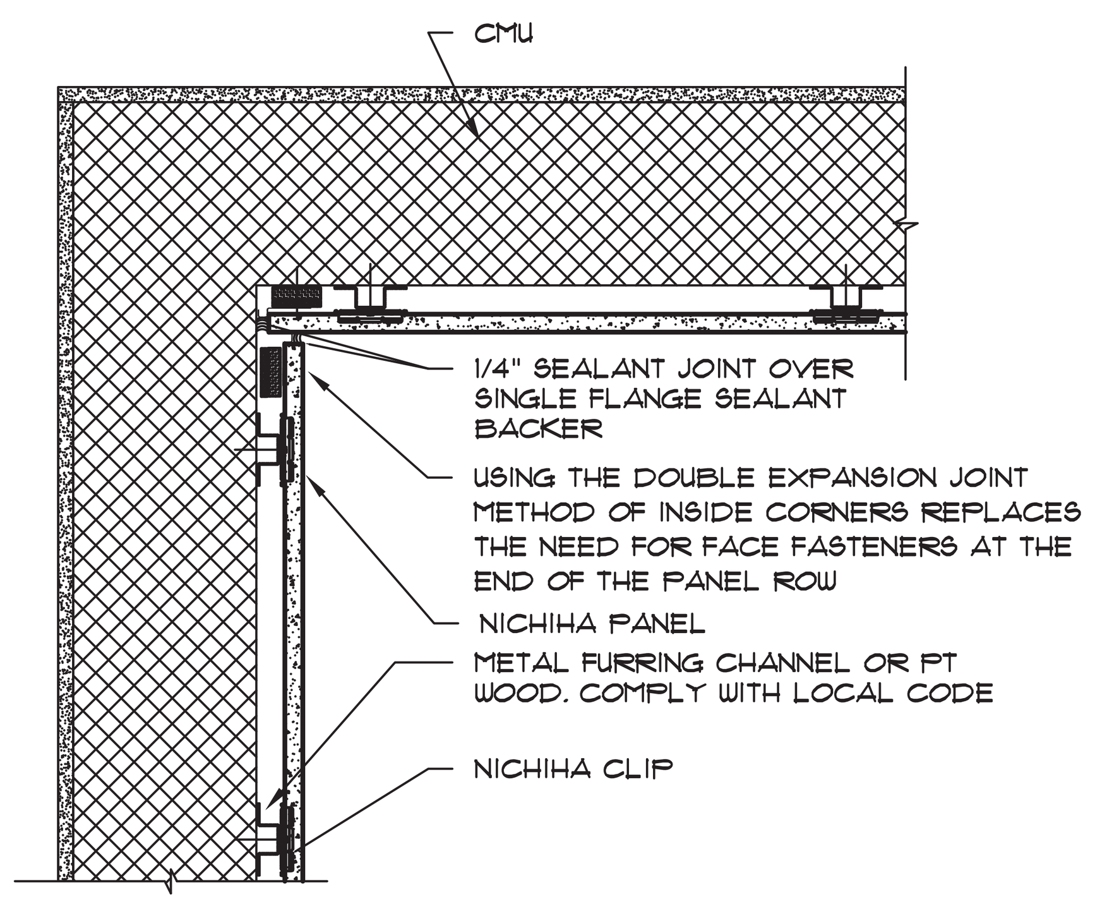
A-380



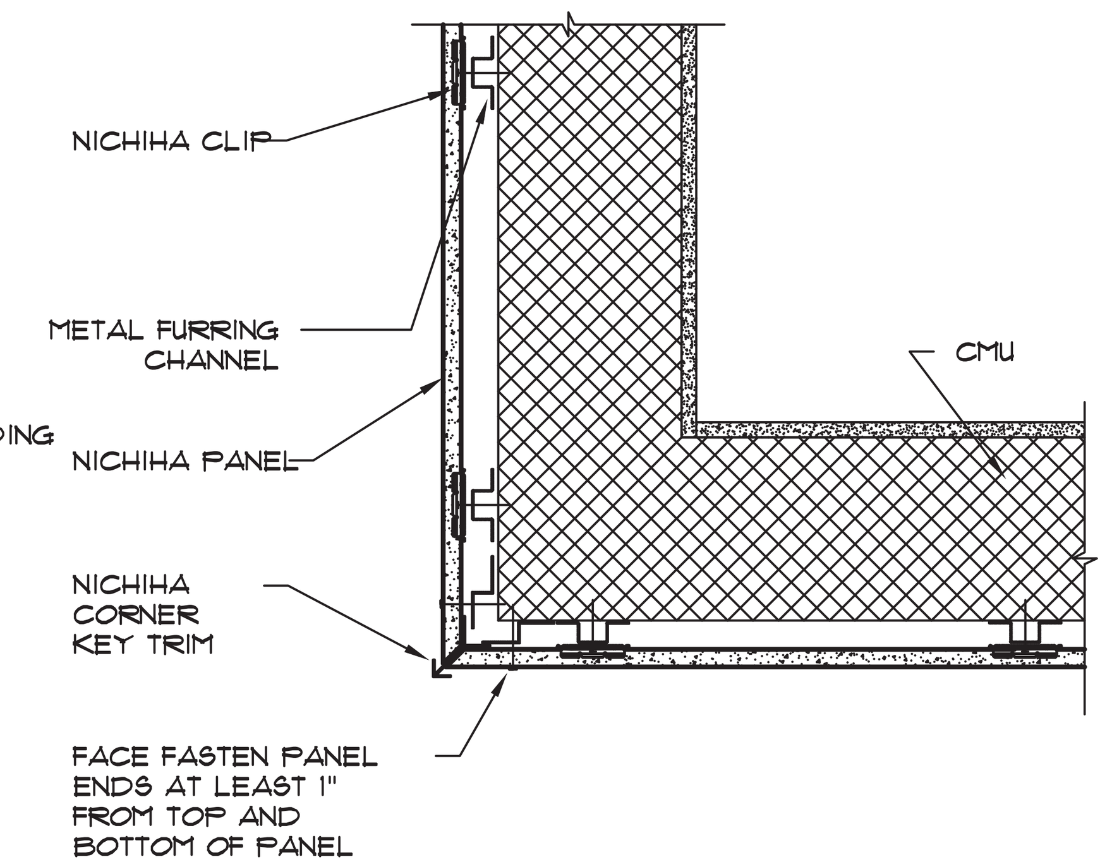
WOOD STANDARD 6' & 10' HORIZONTAL PANEL TYPICAL WALL DETAIL



CMU WITH FURRING 6' & 10' HORIZONTAL PANEL TYPICAL WALL DETAIL

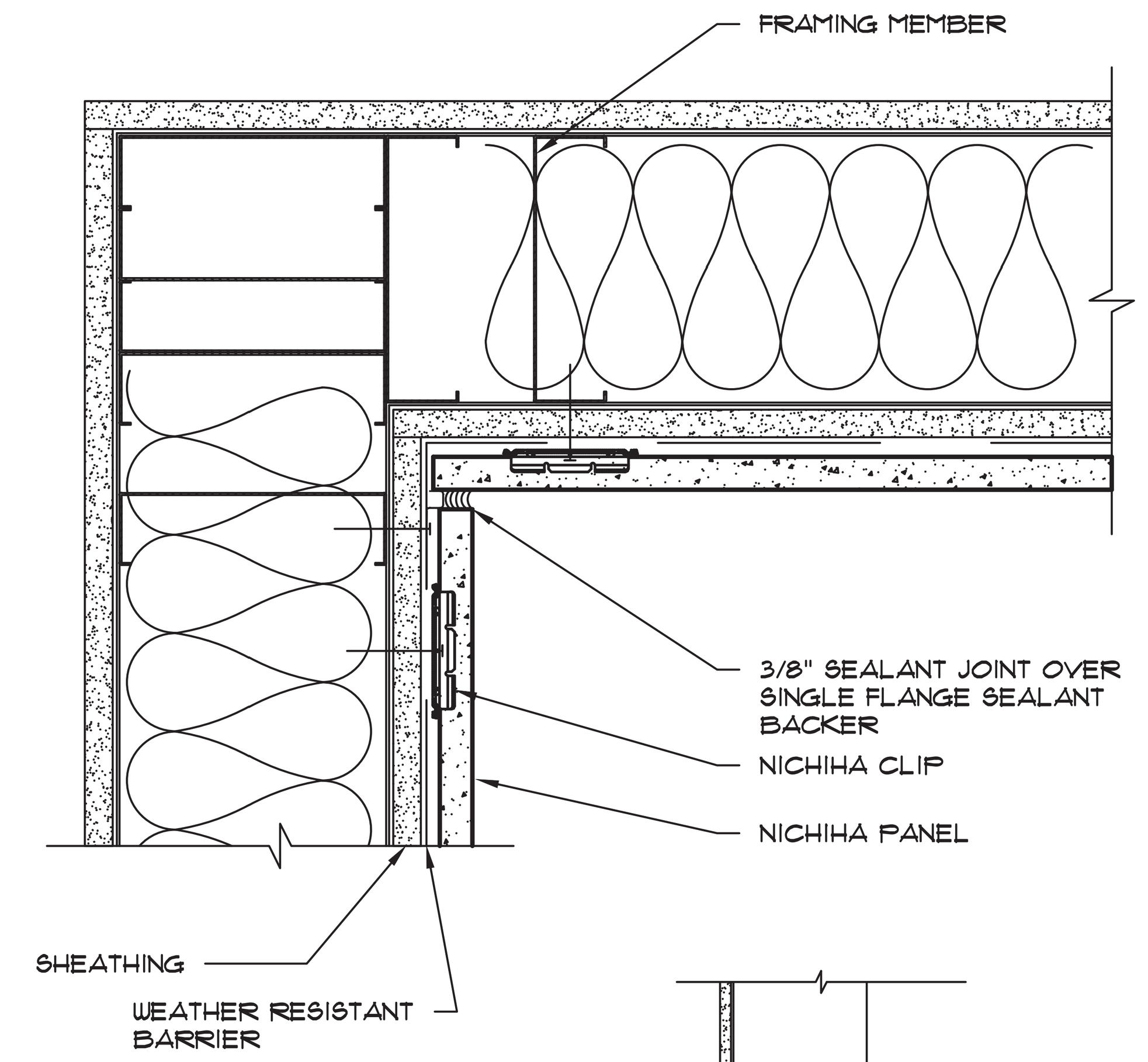


CMU WITH FURRING 6' & 10' HORIZONTAL PANEL INSIDE CORNER DETAIL - CMU USED AS STOP



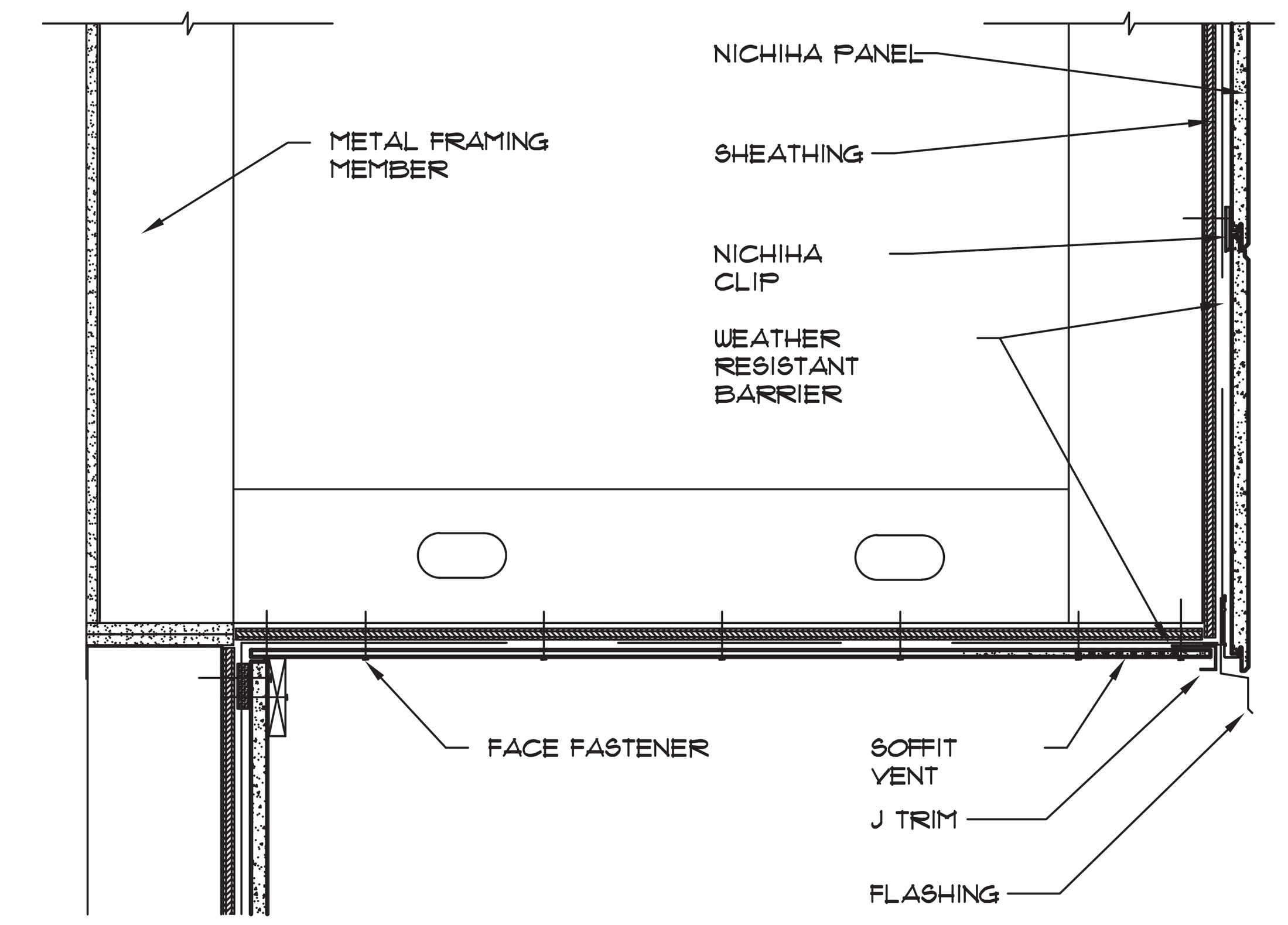
CMU WITH FURRING 6' & 10' HORIZONTAL PANEL OUTSIDE CORNER DETAIL - NICHIHA CORNER KEY TRIM

AT CONCRETE BLK OR EXIST'G WALLS

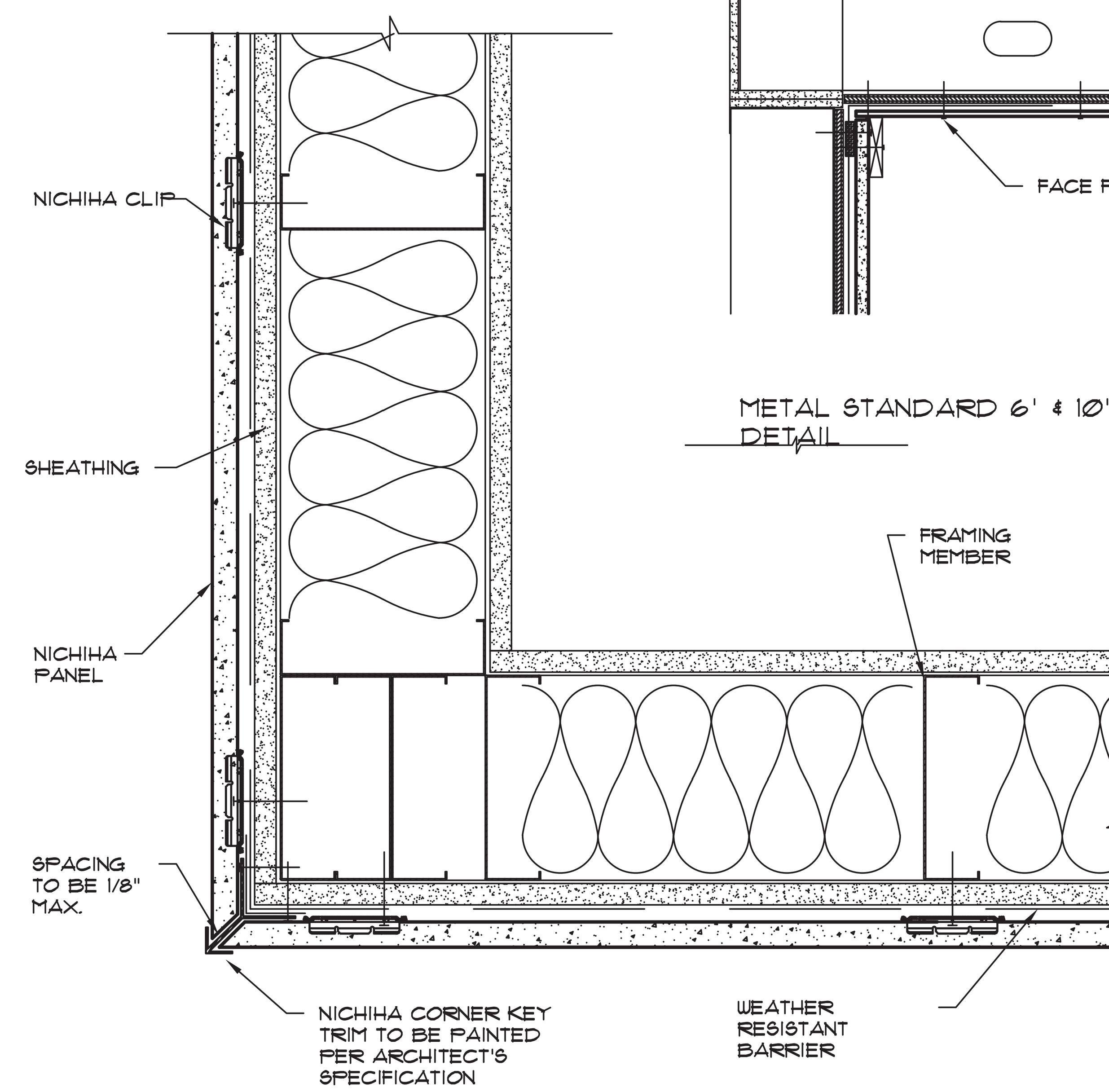


METAL STUD PANEL INSIDE CORNER DETAIL

SCALE: 3" = 1'-0"



METAL STANDARD 6' & 10' HORIZONTAL PANEL & NICHISOFFIT DETAIL



METAL STUD PANEL OUTSIDE CORNER DETAIL - NICHIHA CORNER KEY TRIM

AT METAL WALLS

NOTES:

1. THIS CONCEPTUAL DETAIL IS A GUIDE FOR INSTALLATION OF NICHIHA PRODUCTS. ARCHITECTS/ENGINEERS/CONTRACTORS ARE RESPONSIBLE FOR SUCCESSFUL APPLICATION WHICH DEPENDS UPON SUBSTRATE DESIGN AND CONSTRUCTION BUILT IN ACCORDANCE WITH BEST PRACTICES AND LOCAL BUILDING CODES.
2. NICHIHA PANEL (REPRESENTED HERE IS 5/8" NICHIHA PRODUCT, ADJUST ACCORDINGLY FOR OTHER NICHIHA PRODUCT THICKNESSES).
3. SHEATHING (REPRESENTED HERE IS 1/2" PLYWOOD OR 7/16" OSB (IF USING OTHER THICKNESSES ADJUST ACCORDINGLY).
4. METAL FRAMING MEMBERS MUST BE A MINIMUM OF 18 GA.
5. SOFFIT NOT TO BE DEEPER THAN THREE PANELS.
6. INSIDE SOFFIT RECOMMEND PROVIDING SLIGHT SLOPE DOWNWARDS TOWARDS FLASHING TO EVACUATE MOISTURE.
7. NICHISOFFIT FACE FASTENED INTO FRAMING AT 8" O.C.

THESE DETAILS ARE FOR REFERANCE & EXAMPLE ONLY FIELD REQUIREMENTS PREVAIL.

GWINNETT COUNTY

Department of Planning and Development

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Sep 02, 2020

AUTHORIZED

STATE OF GEORGIA MICHAEL A. THOMAS 2482 REGISTERED ARCHITECT

BLD2020-04937

TA Design Group, Inc.

A-522

I. GENERAL

1.
SEE PROJECT SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES. COORDINATE THESE DRAWINGS WITH EXISTING CONDITIONS, AND COORDINATE ALL DIMENSIONS AND WALL LOCATIONS WITH THE ARCHITECTURAL DRAWINGS. THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES WITHIN THE CONSTRUCTION DOCUMENTS.

2.
THE STRUCTURAL DRAWINGS SHOULD NOT BE USED TO SIZE OR LOCATE DOORS, WINDOWS, TOILET PARTITIONS, OR NON-LOAD BEARING WALLS.

3.
SEE ARCHITECTURAL FOR ALL EXPANSION JOINT COVERS.

4.
DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2012 INTERNATIONAL BUILDING CODE.

5.
DESIGN LOADS:

LIVE LOAD INFORMATION
- A. ROOF LIVE LOAD (REDUCED FOR TRIBUTARY AREA) = 20 PSF
- B. 2ND FLOOR LIVE LOAD = 75 PSF (TYPICAL FOR RETAIL SPACE)
- C. 1ST FLOOR LIVE LOAD = 100 PSF (SLAB ON GRADE)

ROOF DEAD LOADING INFORMATION
- A. 3.0 PSF SINGLE PLY MEMBRANE
- B. 2.0 PSF 5/8" PLYWOOD ROOF DECK
- C. 2.0 PSF INSULATION
- D. 5.0 PSF WOOD ROOF TRUSSES
- E. 2.5 PSF CEILING
- F. 4.0 PSF HVAC ALLOWANCE
- G. 2.0 PSF ELECTRICAL

FLOOR DEAD LOADING INFORMATION
- A. 10.0 PSF 1" GYPCRETE
- B. 2.5 PSF 3/4" PLYWOOD
- C. 4.0 PSF WOOD TRUSSES
- D. 2.5 PSF 5/8" GYPSUM BOARD
- E. 6.0 PSF COLLATERAL LOAD (LIGHTS, HVAC, SPRINKLER, ETC.)
- F. WEIGHT OF WALLS CONTRIBUTING TO DESIGN LOAD VARIES
- G. SEE FRAMING PLAN FOR OTHER CONCENTRADED LOADS

SNOW LOAD INFORMATION
- A. GROUND SNOW LOAD (PG) = 5 PSF
- B. SNOW EXPOSURE FACTOR (CE) = 1.0
- C. SNOW LOAD IMPORTANCE FACTOR (IS) = 1.0
- D. THERMAL FACTOR (CT) = 1.0

WIND LOAD INFORMATION
- A. ULT. WIND SPEED = 115 MPH
- B. ASD WIND SPEED = 89 MPH
- C. WIND IMPORTANCE FACTOR (IW) = 1.0
- D. OCCUPANCY CATEGORY = II
- E. WIND EXPOSURE = B
- F. INTERNAL PRESSURE COEFFICIENT = +/- 0.18
- G. COMPONENTS AND CLADDING = VARIES

SEISMIC DESIGN INFORMATION
- A. SEISMIC IMPORTANCE FACTOR (IE) = 1.0
- B. SEISMIC DESIGN CATEGORY = C
- C. 0.2 SECOND SPECTRAL RESPONSE ACCELERATION (SS) = 0.193
- D. 1 SECOND SPECTRAL RESPONSE ACCELERATION (S1) = 0.093
- E. 0.2 DESIGN SPECTRAL RESPONSE ACCELERATION (SDS) = 0.206
- F. 1 DESIGN SECOND SPECTRAL RESPONSE ACCELERATION (SD1) = 0.147
- G. SITE CLASS = D
- H. RESPONSE MODIFICATION COEFFICIENT (R) = 3
- I. SYSTEM OVERSTRENGTH FACTOR = 3
- J. DEFLECTION AMPLIFICATION FACTOR (CD) = 3
- K. SEISMIC RESPONSE COEFFICIENT (CS) = 0.069
- L. DESIGN BASE SHEAR (V) = VARIES
- M. BASIC SEISMIC FORCE RESISTING SYSTEM - LIGHT FRAMED WOOD WALLS SHEATHED WITH WOOD RATED FOR SHEAR RESISTANCE. AND STEEL NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
- N. ANALYSIS PROCEDURE - EQUIVALENT LATERAL FORCE PROCEDURE

6.
ALL THE SAFETY REGULATIONS, METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING, BRACING, AND FRAMEWORK, ETC. AS REQUIRED.

7.
DIMENSIONS ARE NOT TO BE DERIVED BY SCALING THESE DRAWINGS. IF THERE IS ANY QUESTION ABOUT DETAILS OR DIMENSIONS, CONTACT THE ARCHITECT AND STRUCTURAL ENGINEER FOR CLARIFICATION.

8.
WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL ALSO APPLY FOR ALL LIKE OR SIMILAR CONDITIONS, UNLESS NOTED OTHERWISE.
9.
ISOMETRIC VIEWS ARE FOR ILLUSTRATIVE PURPOSES ONLY. NO INFORMATION ABOUT THE STRUCTURE OR ITS COMPONENTS SHALL BE TAKEN OR ASSUMED FROM THEM.

II. FOUNDATIONS

1.
THE FOUNDATION IS DESIGNED USING AN ALLOWABLE SOIL BEARING CAPACITY OF 2000 PSF. IF THE BEARING CONDITIONS VARY FROM WHAT IS SHOWN, OR IF THE SOIL BEARING CAPACITY IS QUESTIONABLE, THE ARCHITECT AND STRUCTURAL ENGINEER ARE TO BE NOTIFIED IMMEDIATELY.

2.
ALL BUILDING AREAS SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED IN ACCORDANCE WITH ASTM D698, CURRENT EDITION.

3.
A REGISTERED GEOTECHNICAL ENGINEER REPRESENTING THE OWNER SHALL BE PRESENT TO MONITOR COMPACTION AND SETTLEMENT AND VERIFY THE BEARING CAPACITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE ON-SITE GEOTECHNICAL ENGINEER.

4.
REMOVE ALL TOPSOIL, ROOT SYSTEM OR OTHER DELETERIOUS MATERIAL UNDER BUILDING FOOTPRINT AND REPLACE WITH SUITABLE COMPACTED FILL OR CRUSHED STONE. STRUCTURAL ENGINEER'S DECISION ON QUESTIONABLE MATERIAL SHALL BE FINAL.

5.
BACKFILLING SHALL BE PERFORMED IN EQUAL LIFTS AROUND THE BUILDING PERIMETER TO BALANCE LATERAL EARTH PRESSURE ON THE BUILDING. WALK BEHIND COMPACTION EQUIPMENT IS REQUIRED WITHIN A DISTANCE OF TWO TIMES THE WALL HEIGHT.

6.
BACKFILL AGAINST STRUCTURAL WALLS SHALL NOT BE PERFORMED UNTIL WALL AND SLAB ON GRADE HAS OBTAINED SPECIFIED STRENGTH.
7.
IF REQUIRED BY THE ON-SITE GEOTECHNICAL ENGINEER, THE GROUND WATER TABLE SHALL BE LOWERED.

8.
ALL FOOTINGS TO BE CENTERED UNDER THE COLUMNS OR WALLS THEY SUPPORT, UNLESS NOTED OTHERWISE ON THE DRAWING.
9.
UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL IN WRITING. THE CONTRACTOR SHALL LOCATE ANY EXISTING UNDERGROUND UTILITIES PRIOR TO ANY CONSTRUCTION.
10.
INSPECTIONS BY GEOTECH FIRM ARE REQUIRED FOR EXISTING SOILS CONDITIONS, FILL PLACEMENT, AND LOAD BEARING REQUIREMENTS:

A.
SITE PREPARATION: PRIOR TO PLACEMENT OF PREPARED FILL, THE INSPECTOR SHALL DETERMINE THAT THE SITE HAS BEEN PREPARED IN ACCORDANCE WITH THE RECCOMENDATIONS OF A REGISTERED GEOTECHNICAL PROFESSIONAL ENGINEER FOR THE REQUIRED BEARING PRESSURE NOTED ABOVE.

B.
FILL PLACEMENT: DURING PLACEMENT AND COMPACTION OF FILL MATERIAL, THE INSPECTOR SHALL DETERMINE THAT THE PROPER FILL MATERIAL IS BEING USED AND THAT THE MAXIMUM LIFT THICKNESS IS FOLLOWED IN ACCORDANCE WITH THE RECCOMENDATIONS OF A REGISTERED GEOTECHNICAL PROFESSIONAL ENGINEER FOR THE REQUIREMENTS STATED ABOVE.

C.
EVALUATION OF IN-PLACE DENSITY: THE INSPECTOR SHALL DETERMINE, AT THE FREQUENCIES DETERMINED IN THE SOILS REPORT AND PROJECT SPECIFICATIONS, THAT THE IN-PLACE DRY DENSITY OF THE COMPACTED FILL COMPLIES WITH THE RECCOMENDATIONS OF A REGISTERED GEOTECHNICAL PROFESSIONAL ENGINEER FOR THE REQUIREMENTS STATED ABOVE.

III. STRUCTURAL STEEL

1.
DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE CODE-REFERENCED AISC MANUAL OF STEEL CONSTRUCTION, SPECIFICATION FOR STEEL BUILDINGS, AND CODE OF STANDARD PRACTICE.

2.
STEEL FABRICATOR SHALL BE CURRENTLY CERTIFIED BY THE AISC QUALITY CERTIFICATION PROGRAM FOR STRUCTURAL STEEL FABRICATIONS AND DESIGNATED AS "AISC CERTIFIED FABRICATOR, CONVENTIONAL BUILDING CATEGORY." CONTRACTOR SHALL SUBMIT IN WRITING TO THE STRUCTURAL ENGINEER, AT THE TIME OF BID. PROOF OF CERTIFICATION FOR THE STEEL FABRICATOR (S) SUPPLYING STRUCTURAL STEEL.

3.
MATERIALS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
- A. W-SHAPES = ASTM 992
- B. HOLLOW STRUCTURAL SHAPES = ASTM A500, GRADE B
- C. PLATES, BARS, ANGLES, C-SHAPES, MC-SHAPES = ASTM A36
- D. PIPES = ASTM A53, GRADE B
- E. WELDING ELECTRODES = E70XX

ALL ANCHOR BOLTS SHALL BE SIZE AND STRENGTH SPECIFIED ON THESE DRAWINGS.

4.
ALL BEAM END CONNECTIONS SHALL BE AISC DOUBLE ANGLE BOLTED-WELDED CONNECTIONS WITH 3/4" DIA. A325N BOLTS U.N.O. THE WELD SHALL BE 1/4" WELD FULL LENGTH OF ANGLE PLUS 1" TOP AND BOTTOM, DESIGN SHEAR SHALL BE THE GREATER OF:

A.
THE SHEAR REACTION SHOWN ON DRAWINGS (IF ANY) :

B.
50% OF THE VALUE FROM THE "MAXIMUM TOTAL UNIFORM LOAD IN KIPS" TABLES OF THE AISC 13TH EDITION (BLACK BOOK) OR,

C.
THE MINIMUM NUMBER OF BOLTS IN SINGLE SHEAR AS FOLLOWS:

BEAM SHAPE*	# OF 3/4" DIA. A325 BOLTS	LENGTH OF LL 3 1/2" X 3 1/2" X 5/16"
W8 , W10	4	5 1/2
W12 , W14	6	8 1/2
W16 , W18	8	11 1/2
W21	10	14 1/2
W24	12	17 1/2
W27	14	20 1/2
W30	16	23 1/2

WHERE CONNECTIONS ARE SKEWED OR THE DOUBLE ANGLE CONNECTIONS ABOVE WILL NOT FIT, THE FOLLOWING CONNECTIONS SHALL BE USED:

END OF BEAM CONNECTIONS*

BEAM SHAPE*	# OF 3/4" DIA. A325 BOLTS	1/2" SHEAR TAB LENGTH**
W8 , W10	2	5 1/2
W12 , W14	3	8 1/2
W16	4	11 1/2
W18, W21	5	14 1/2
W24	6	17 1/2
W27	7	20 1/2
W30	8	23 1/2

* WHEN THE SHEAR TAB CONNECTION ABOVE DOES NOT FIT IN THE BEAM WEB, USE THE ADJACENT SMALLER CONNECTION AND CLOUD ON SHOP DRAWINGS.

** WELD PLATE TO SUPPORTING MEMBER WITH 1/4" WELD ALL AROUND. SHEAR TAB TO BE 3/8" THICK X 4" WIDE.

5.
WELDS SHALL BE MADE ONLY BY OPERATORS CERTIFIED BY THE STANDARD QUALIFICATION PROCEDURE OF THE AMERICAN WELDING SOCIETY FOR THE TYPE OF WELD REQUIRED, WELDER CERTIFICATION SHALL BE SUBMITTED FOR REVIEW,

6.
WELD LENGTHS NOT NOTED SHALL BE FULL LENGTH. TERMINATE WELDS IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION AND AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE - STEEL (D1.1) .

7.
HOLES LARGER THAN 1" DIA. SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER. HOLES SHALL BE PUNCHED OR DRILLED, EXCEPT AS OTHERWISE PERMITTED THE STRUCTURAL ENGINEER.

8.
PROTECT COLUMNS, BASE PLACES, ANCHOR BOLTS, AND ANY STEEL BELOW GRADE WITH AN APPROVED INORGANIC OR EPOXY ANTI-CORROSION COATING, FIELD APPLIED PER MANUFACTURER'S INSTRUCTIONS.

9.
ALL EXPOSED STRUCTURAL STEEL INCLUDING LINTELS, AND AS NOTED ON DRAWINGS, SHALL BE GALVANIZED IN CONFORMANCE WITH ASTM A123. FASTENERS AND SMALL PARTS REQUIRING GALVANIZING SHALL BE IN CONFORMANCE WITH ASTM A153.

10.
THE CONTRACTORS SHALL DETERMINE, FURNISH AND INSTALL ALL TEMPORARY SUPPORTS SUFFICIENT TO SECURE THE STRUCTURAL STEEL FRAMING AGAINST LOADS PRESENT DURING ERECTION. TEMPORARY SUPPORTS SHALL REMAIN IN PLACE UNTIL ALL CONNECTIONS TO THE LATERAL LOAD RESISTING SYSTEM, INCLUDING HORIZONTAL DIAPHRAGMS, ARE COMPLETE.

11.
THE GENERAL CONTRACTOR SHALL VERIFY THAT THE CORRECT BEAM AND GIRDER CAMBER IS PRESENT AFTER ERECTION AND BEFORE FLOOR SLAB IS POURED.

12.
SPLICE CONTINUOUS STEEL ANGLES AND PLATES WITH PARTIAL-JOINT-PENETRATION SQUARE GROOVE WELDS (JOINT DESIGNATION B-P1A) U.N.O.

13.
STRUCTURAL STEEL FABRICATOR AND DETAILER SHALL SEE THE ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL STEEL NOT SHOWN OR CALLED OUT IN THESE DRAWINGS. IF SIZE IS NOT SHOWN IN ARCHITECTURAL DRAWINGS A REQUEST OR INFORMATION SHALL BE SENT TO THE STRUCTURAL ENGINEER THROUGH THE PROPER CHANNELS.

14.
GENERAL CONTRACTOR SHALL COORDINATE CONNECTIONS OF JOIST AND JOIST GIRDERS TO STRUCTURAL STEEL.

IV. SUBMITTALS

1.
THE CONTRACT DOCUMENTS ARE THE STRUCTURAL ENGINEER'S INSTRUMENTS OF SERVICE TO CONVEY DESIGN INTENT. THEY ARE NOT TO BE CONSIDERED FABRICATION OR LAYOUT DRAWINGS.

2.
THE FOLLOW ARE REQUIRED SUBMITTALS
- A. CONCRETE MIX DESIGN (S)
- B. REINFORCING BAR DRAWINGS
- C. WOOD TRUSSES
- D. STRUCTURAL STEEL
- E. OTHER SUBMITTALS AS NOTED ON THE DRAWINGS AND SPECIFICATIONS

3.
SUBMITTALS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMISSION TO THE STRUCTURAL ENGINEER AND SHALL BEAR THE CONTRACTOR'S STAMP ATTESTING TO THE SAME. DRAWINGS NOT STAMPED WILL NOT BE REVIEWED. SUBCONTRACTOR'S UNCHECKED SUBMITTAL DRAWINGS WILL NOT BE REVIEWED.

4.
SUBMITTALS TO BE REVIEWED BY THE STRUCTURAL ENGINEER SHALL BE SUBMITTED TO THE ARCHITECT. THE STRUCTURAL ENGINEER WILL NOT ACCEPT SUBMITTALS DIRECTLY FROM CONTRACTORS WITHOUT THE STRUCTURAL ENGINEER'S PRIOR APPROVAL.

5.
UPON COMPLETION OF THE STRUCTURAL ENGINEER S REVIEW, SUBMITTALS WILL BE RETURNED TO THE ARCHITECT FOR THEIR REVIEW.

6.
ANY DEVIATION IN DESIGN, DETAILS, DIMENSIONS, ETC. FROM THE CONSTRUCTION DOCUMENTS SHALL BE CLOUDED ON THE SUBMITTAL AND VERIFICATION OF THE CHANGE SHALL BE REQUESTED.

V. WOOD NOTES:

1.
WOOD CONNECTIONS SHALL FOLLOW THE MINIMUM REQUIREMENTS OF THE 2012 INTERNATIONAL BUILDING CODE TABLE 2304.9.1 UNLESS NOTED ON THE DRAWINGS TO REQUIRE ADDITIONAL FASTENERS.

2.
INSTALL ALL WOOD CONSTRUCTION CONNECTORS ACCORDING TO THE REQUIREMENTS SET BY THE MANUFACTURER.

3.
ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.

4.
STRUCTURAL LUMBER SHALL BE SOUTHERN PINE #2 OR EQUAL.

5.
PROVIDE DOUBLE JOISTS UNDER ALL NON-LOAD BEARING PARTITIONS PARALLEL TO THE SPAN OF THE FLOOR JOISTS.

6.
PROVIDE DIAGONAL OR SOLID BLOCKING @ 8'-0" O.C. MAXIMUM IN ALL FLOOR JOISTS AND SOLID BLOCKING BETWEEN FLOOR JOISTS UNDER WALLS THAT ARE PERPENDICULAR TO THE FLOOR JOISTS.

7.
ALL STRUCTURAL WOOD USED IN THE CONSTRUCTION OF STEPS, PORCHES, AND DECKS, OR EXPOSED TO WEATHER SHALL BE PRESSURE TREATED. (U.N.O)

8.
TJI FLOOR JOISTS ARE DESIGNED USING "TRUSS JOIST BY WEYERHAEUSER" THE USE OF ALTERNATE PRODUCTS SHALL BE SUBMITTED FOR APPROVAL. CONTRACTOR SHALL FOLLOW MANUFACTURERES WRITEN INSTRUCTION ON PROPER HADELING FOR JOISTS, STORING, ERECTING, AND ALLOWABLE HOLES IN JOIST WEB.

9.
ALL PRE-ENGINEERED LUMBER SPECIFIED AS LVL'S ON THESE DRAWINGS SHALL BE PRODUCED BY "TRUSS JOIST BY WEYERHAEUSER" OR APPROVED EQUAL WITH MANUFACTURERS DETAILED DESIGN PROPERTIES FOR THE SECTIONS USED IN THIS SET OF DRAWINGS. THE MINIMUM DESIGN PROPERTIES SHALL INCLUDE:
E: 2,000,000 PSI
Fb: 2,600 PSI
Fc PERPENDICULAR: 750 PSI

10.
WALL SHEATHING SHALL BE CONTINUOUS OVER RIM JOIST TO TOP PLATE. ALL WALL AND FLOOR SHEATHING SHALL BE BLOCKED AT PANEL JOINTS.

ROOF SHEATHING:
THE ROOF SHEATHING SHALL BE 5/8" THICK (MIN.) 24/16 APA-RATED T&G ADVANTECH PLYWOOD, (OR OSB) WITH 0.131" DIAMETER X 2.5" LONG (RING SHANK) NAILS AT 6" ON CENTER AT ALL PANEL EDGES AND BOUNDARIES, AND 12" ON CENTER IN THE FIELD.

FLOOR SHEATHING:
THE FLOOR SHEATHING SHALL BE 3/4" THICK (MIN.) 24/16 APA-RATED T&G ADVANTECH PLYWOOD, WITH 0.131" DIAMETER X 2.5" LONG (RING SHANK) NAILS AT 6" ON CENTER AT ALL PANEL EDGES AND BOUNDARIES, AND 12" ON CENTER IN THE FIELD,

SHEARWALL SHEATHING:
INTERIOR SHEAR WALLS SHALL BE SHEATHED WITH 15/32" (MIN.) 24/16 APA-RATED OSB OR PLYWOOD, WITH 0.131" DIAMETER X 2.5" LONG (8D COMMON) NAILS AT 4" ON CENTER AT ALL PANEL EDGES AND BOUNDARIES, AND 12" ON CENTER IN THE FIELD. BLOCK ALL EDGES OF PLYWOOD. EXTERIOR WALL SHEATHING SHALL MATCH SHEAR WALL SHEATHING WITH 8d NAILS AT 6" O.C. AT BOUNDARIES AND EDGES AND 12" O.C. IN THE FIELD.

VI. CONCRETE:

1.
ALL CONCRETE WORK TO BE DONE IN ACCORDANCE WITH THE CODE REFERENCED EDITION OF ACI-318; BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE

2.
CONCRETE MIX DESIGN REQUIREMENTS AND COMPRESSIVE STRENGTH AT 28 DAYS.

DESCRIPTION	28 DAY STRENGTH (PSI)	WEIGHT PER CUBIC FOOT (PCF)	SLUMP AT POINT OF PLACEMENT	AGGREGATE	FIBERMESH OR WWM
FOOTING AND FOUNDATION WALLS	3000	145	4" +/- 1"	ASTM C33	NONE
SLAB ON GRADE	3000	145	4" +/- 1"	ASTM C33	WWM 6X6 W2.1 X W2.1
SIDEWALKS & EXTERIOR ON GRADE	3000	145	4" +/- 1"	ASTM C33	WWM 6X6 W2.1 X W2.1

FLY ASH SHALL NOT BE USED. WATER REDUCING ADMIXTURES MAY BE USED TO ACHIEVE SLUMP REQUIREMENTS.

3.
SEE ARCHITECTURAL DOCUMENTS FOR JOINT SIZES AND FILLER MATERIALS.
4.
LOCATION OF ALL CONSTRUCTION JOINS, EXCLUDING SLABS ON GRADE, SHALL BE COORDINATED WITH STRUCTURAL ENGINEER.

5.
SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER SHOWING PROPOSED LOCATIONS OF ANY MATERIAL SUCH AS BUT NOT LIMITED TO CONDUITS, EMBEDMENTS, OR FIXTURES TO BE PLACED INSIDE ANY STRUCTURAL CONCRETE MEMBER SUCH AS BEAMS, WALLS, SLABS, COLUMNS OR FOOTINGS. THIS IS NOT REQUIRED FOR SLABS ON GRADE OF 4" OR LESS IN THICKNESS.

6.
CONCRETE SLAB FLATNESS AND LEVELNESS TOLERANCES SHALL BE IN CONFORMANCE WITH ACI 117, AND SHALL BE SPECIFIED BY THE OWNER. UNLESS SUPERSEDED BY THE OWNER'S CRITERIA, CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS:

A.
PROVIDE A FLOOR SURFACE WHICH IS TRUE AND LEVEL AND ACHIEVES F NUMBERS OF FF = 30 AND FL = 20 MINIMUM OVERALL COMPOSITE AND FF = 20 AND FL = 15 MINIMUM AT ANY INDIVIDUAL SECTION, WHEN TESTED IN ACCORDANCE WITH ASTM E1155. REMOVE SURFACE IRREGULARITIES TO PROVIDE A CONTINUOUS SMOOTH FINISH.

B.
ALL INTERIOR SLABS TO RECEIVE A SMOOTH TROWEL FINISH UNLESS NOTED.

7.
UNLESS SPECIFIED OTHERWISE IN THE SPECIFICATION, TESTING OF CONCRETE SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF ACI 318 SECTION 5.6 EVALUATION AND ACCEPTANCE OF CONCRETE.

8.
CONSTRUCTION JOINTS (CNJT.) ARE TO BE LOCATED ON THE THRESHOLD SIDE OF A WALL.

9.
SEE DETAIL "TYPICAL SLAB ON GRADE JOINT LAYOUT".

10.
THE FOLLOWING PROCEDURES SHALL MEET THE REQUIREMENTS OF THE REFERENCED CODE SECTIONS:

PROCEDURE	REFERENCE SECTION
PREPARATION	ACI 304 - "GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE"
CONVEYING	ACI 318 SECTION 5.9 - "CONVEYING"
DEPOSITING	ACI 318 SECTION 5.10 - "DEPOSITING"
CONSOLIDATION	ACI 309 - "GUIDE FOR CONSOLIDATION OF CONCRETE"
CURING	ACI 308 - "STANDARD PRACTICE FOR CURING CONCRETE"
HOT WEATHER CONCRETING	ACI 305 - "HOT WEATHER CONCRETING"
COLD WEATHER CONCRETING	ACI 306 "COLD WEATHER CONCRETING"

VII. STRUCTURAL LUMBER & TRUSSES

1.
PROVIDE SOUTHERN SPECIES PLYWOOD RATED FOR INDICATED SPANS AND LOADS BY AMERICAN PLYWOOD ASSOCIATION. INSTALL IN ACCORDANCE WITH ALL RECOMMENDATIONS BY THE AMERICAN PLYWOOD ASSOCIATION INCLUDING SIZE AND SPACING OF FASTENERS.
2.
ROOF TRUSS DESIGN LOADS SHALL BE AS FOLLOWS:

TOP CHORD LIVE LOAD. . . . . 20 PSF
TOP CHORD DEAD LOAD. . . . . 12 PSF
BOTTOM CHORD LIVE LOAD. . . . . 0 PSF
BOTTOM CHORD DEAD LOAD. . . . . 14 PSF
TOP CHORD WIND UPLIFT LOAD. . . . . IN ACCORDANCE W/ ASCE7-10
SEE GENERAL NOTES FOR OTHER DESIGN LOADS. SEE PLANS FOR ADDITIONAL POINT LOADS.

3.
TRUSSES SHALL BE DESIGNED AND FABRICATED BY THE TRUSS MANUFACTURER. DESIGN SHALL CARRY THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF PROJECT LOCATION. CONFIGURATION AND SIZE OF WEB MEMBERS SHALL BE DETERMINED BY THE TRUSS MANUFACTURER. SHOP DRAWINGS AND CALCULATIONS FOR TRUSSES SHALL BE SUBMITTED FOR APPROVAL BEFORE FABRICATION. TRUSS SHOP DRAWINGS SHALL BE AVAILABLE AT THE SITE.

4.
MAXIMUM LIVE LOADS DEFLECTION FOR ROOF TRUSSES = L/240

5.
LOADS ABOVE SHALL BE UTILIZED IN THE DESIGN OF GIRDER TRUSSES.

6.
BOTTOM AND TOP CHORDS OF ALL ROOF TRUSSES SHALL BE TEMPORARILY BRACED BY 1" X 4" X 8' AT 10 FEET ON CENTER. ALL ADDITIONAL PERMANENT BRACING AS REQUIRED BY STRUCTURAL DESIGN OF THE TRUSSES AND FOR STABILITY OF THE TRUSSES SHALL BE INDICATED ON THE SHOP DRAWINGS. BRACING SHALL BE X - TYPE WITH HORIZONTAL STRUTS TOP AND BOTTOM BETWEEN NO LESS THAN 4 TRUSSES. SPACES AT 20 FEET MAXIMUM. BRACING SHALL BE ATTACHED TO EACH TRUSS.

7.
THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING FOR THE TRUSSES DURING ERECTION.

8.
TRUSS DESIGN SHALL ACCOUNT FOR LOAD IMPOSED UPON TRUSSES BY WEIGHT OF MECHANICAL UNITS. SEE MECHANICAL PLANS FOR UNIT LOCATION. VERIFY WEIGHT OF UNIT W/ EQUIP. SELECTED.

VIII. REINFORCING STEEL

1.
REINFORCING STEEL SHALL BE NEW BILLET STEEL, DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60, AND SHALL BE FREE FROM ANY FORM RELEASE AGENTS.

2.
WELDED WIRE FABRIC SHALL BE SHEETS OF NEW BILLET STEEL COLD DRAWN, CONFORMING TO ASTM SPECIFICATION A1064, GRADE 60 MIN.

3.
BAR SUPPORTS, DESIGN, DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 318 AND "THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315.

4.
SPLICES FOR CONTINUOUS BARS SHALL BE CLASS B, UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL BE LAPPED 12" MINIMUM.

5.
PROVIDE BENT HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF ALL WALLS AND FOOTINGS. BENT BARS ARE TO MATCH THE SIZE AND SPACING OF HORIZONTAL BARS IN WALL OR FOOTING. USE CLASS B SPLICE EACH SIDE.

6.
PROVIDE DIAGONAL BARS AT CORNERS OF OPENINGS IN SLABS AND CONCRETE WALLS. SEE DETAILS "RECTANGULAR OPENING WALL SLAB" AND "CIRCLE OPENING WALL SLAB". PROVIDE 2" CLEAR COVER BETWEEN THE OPENING AND THE CORNER REINFORCING BARS.
7.
WALL FOOTING REINFORCEMENT SHALL BE CONTINUOUS THROUGH COLUMN FOOTING.
8.
EXTEND ALL FOOTING REINFORCEMENT TO FAR SIDE OF FOOTING. SEE NOTE BELOW FOR CONCRETE COVERAGE.

9.
PROVIDE DOWELS IN WALL FOOTING TO MATCH WALL VERTICALS UNLESS NOTED OTHERWISE ON DRAWINGS. PROVIDE CLASS B SPLICE. USE STANDARD ACI 90 DEGREE HOOK WITH 3" CLEAR TO BOTTOM OF FOOTING UNLESS NOTED OTHERWISE. SEE DETAIL "CORNER BAR & SPLICE LENGTH DETAIL (IN CONCRETE) "

CLASS B SPLICE OR CORNER BAR PER ACI 318

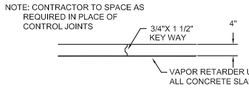
BAR #	3000 PSI CONCRETE		4000 PSI CONCRETE		5000 PSI CONCRETE	
	MIN. SPLICE (INCHES)	MIN. SPLICE (BAR DIAM.)	MIN. SPLICE (INCHES)	MIN. SPLICE (BAR DIAM.)	MIN. SPLICE (INCHES)	MIN. SPLICE (BAR DIAM.)
4	29		25		24	
5	36	57	31	50	28	45
6	43		37		34	
7	63		54		49	
8	72		62		56	
9	81	72	70	62	63	56
10	89		78		69	
11	98		85		76	

10.
MINIMUM CONCRETE COVERAGE SHALL BE AS FOLLOWS. IF CONSTRUCTION DOCUMENTS INDICATE A LARGER COVERAGE, IT SHALL BE USED. IF STIRRUPS, TIES, OR SPIRALS ARE USED, COVERAGE SHALL BE TO THE OUTERMOST FACE OF THESE ELEMENTS.

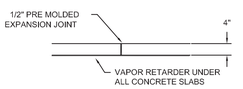
A.
FOOTINGS, CAISSONS, AND OTHER MEMBERS WHERE CONCRETE IS DEPOSITED AGAINST SOIL (EXCEPT SLABS ON GRADE) = 3"

B.
CONCRETE EXPOSED TO WEATHER OR SOIL BUT IS NOT DEPOSITED AGAINST SOIL:
#6 BAR AND LARGER = 2"
#5 BAR AND SMALLER = 1 1/2"
C.
CONCRETE NOT EXPOSED TO WEATHER OR SOIL:
SLABS, WALLS, JOISTS #14 BAR AND LARGER = 1 1/2"
SLABS, WALLS, JOISTS #11 BAR AND SMALLER = 3/4"
BEAMS AND COLUMNS = 1 1/2"

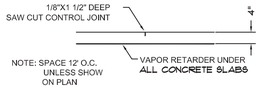
NOTE: CONTRACTOR TO SPACE AS REQUIRED IN PLACE OF CONTROL JOINTS



TYPICAL CONSTRUCTION JOINTS (CNJT.)
N.T.S.



TYPICAL ISOLATION JOINT (I. JT.)
N.T.S.



NOTE: SPACE 12' O.C. UNLESS SHOW ON PLAN

TYPICAL CONTROL JOINT (CJ.)
N.T.S.

SAW CUTTING CONTROL JOINTS IS AN ATTEMPT TO PARTIALLY CONTROL THE SHRINKAGE CRACKS THAT NATURALLY OCCURS IN CONCRETE DURING THE CURING PROCESS. SOMETIMES THE CONCRETE WILL CRACK BETWEEN CONTROL JOINTS.

GWINNETT COUNTY
Department of Planning and Development
These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.
Sep 02, 2020
AUTHORIZED

BLD2020-04937

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GEORGIA REGISTERED NO. PE040828 PROFESSIONAL ENGINEER DOUGLAS B. AYCOCK
6/21/2017

SHEET TITLE
GENERAL NOTES

REVISIONS

JOB TITLE
JIMMY CARTER CONVENIENCE STORE
TA DESIGN GROUP, INC.
JIMMY CARTER BLVD
PEACHTREE CORNERS, GEORGIA

Drawn	Proj no.
M. STEFANO	17-133
Checked	Date
D. AYCOCK	06/09/17

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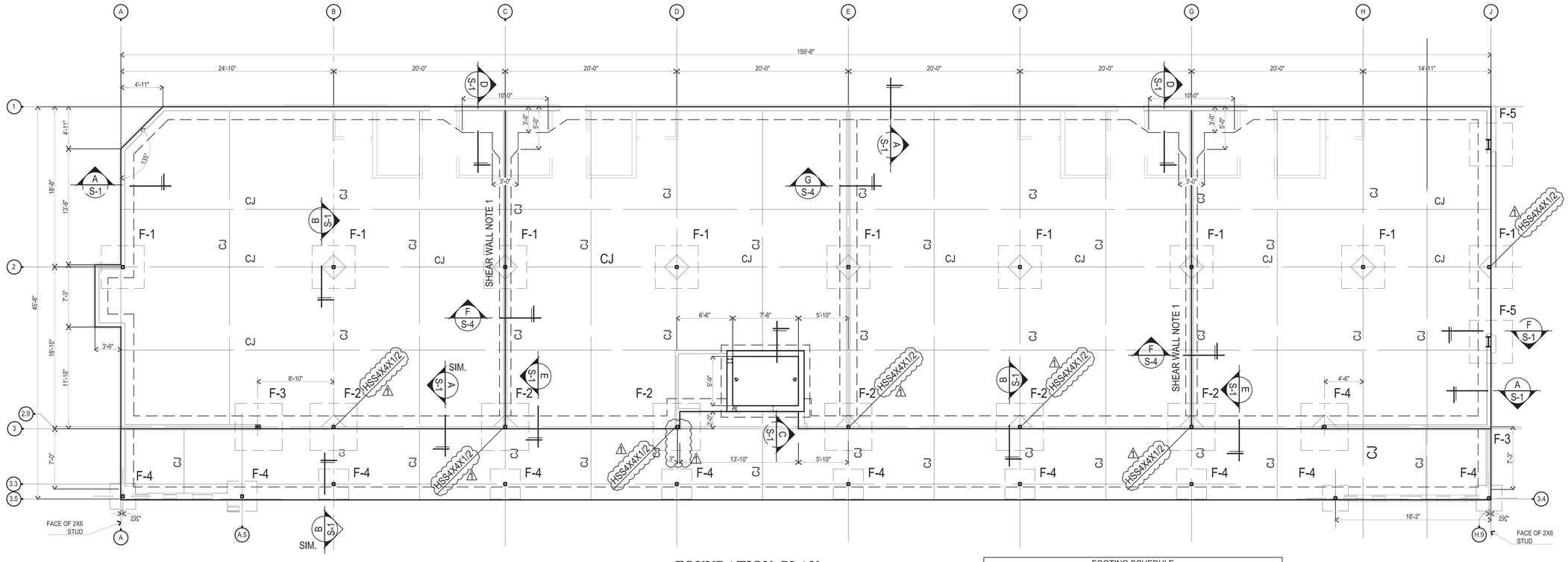
S-0

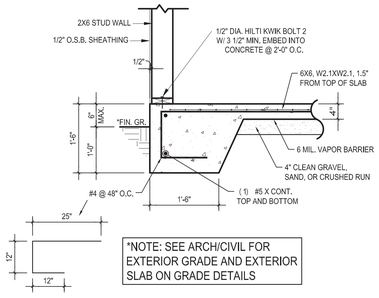


FOUNDATION PLAN

3/16" = 1'-0"

FOOTING SCHEDULE				
MARK	SIZE	THICKNESS	REBAR	REMARKS
F-1	5' X 5'	1'-0"	(5) #5 EACH WAY, BOTTOM	HSS4X4X1/4, EXCEPT WHERE NOTED AS HSS4X4X1/2
F-2	5'-6"X5'-6"	1'-0"	(6) #5 EACH WAY, BOTTOM	HSS4X4X1/4
F-3	3'-0"X3'-0"	1'-0"	(3) #5 EACH WAY, BOTTOM	THICKENED SLAB W/ (4) 2X6
F-4	3'-6"X3'-6"	1'-0"	(4) #5 EACH WAY, BOTTOM	HSS4X4X1/4
F-5	5'-0"X5'-0"	1'-0"	(5) #5 EACH WAY, BOTTOM	W14X22

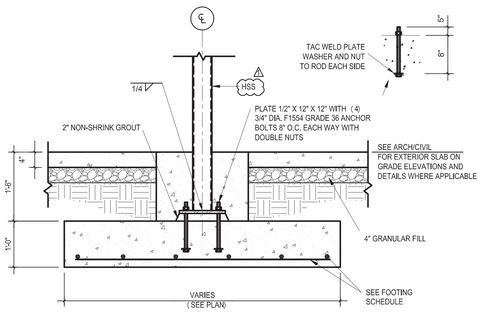
SHEAR WALL NOTE 1: INTERIOR WALLS ALONG COLUMN LINE C AND G SHALL BE SHEATHED WITH 1/2" OSD (OR EQUAL) SHEATHING RATED FOR SHEAR RESISTANCE FULL HEIGHT FROM SLAB ON GRADE TO ROOF DOUBLE TOP PLATE, THE SHEATHING SHALL BE FASTENED WITH 8D COMMON NAILS @ 4" O.C. ON PANEL EDGES AND 12" O.C. IN THE FIELD. INSTALL END POST, HOLDDOWN, AND END POST CONNECTOR AS SHOWN IN PLAN SECTION CUTS AT EACH END OF SHEAR WALL.



*NOTE: SEE ARCH/CIVIL FOR EXTERIOR GRADE AND EXTERIOR SLAB ON GRADE DETAILS

A S-1 TYP. TURNDOWN

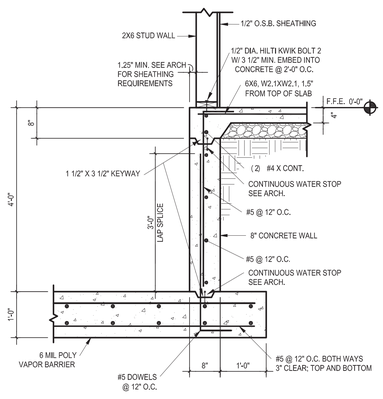
SCALE: 3/4" = 1'-0"



NOTE: PROVIDE A MINIMUM OF 3" COVER TO ALL BASE PLATES AND ANCHOR BOLTS

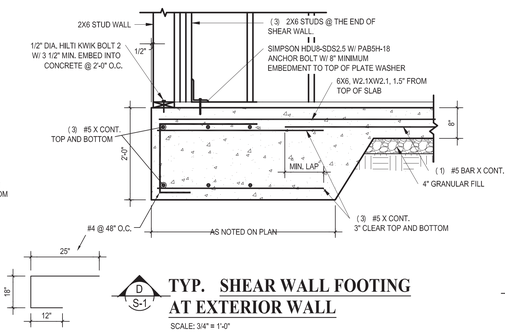
B S-1 TYP. SECTION AT STEEL COLUMN

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



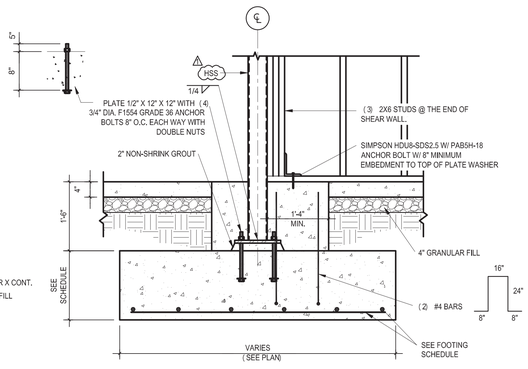
C S-1 SECTION AT ELEVATOR

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



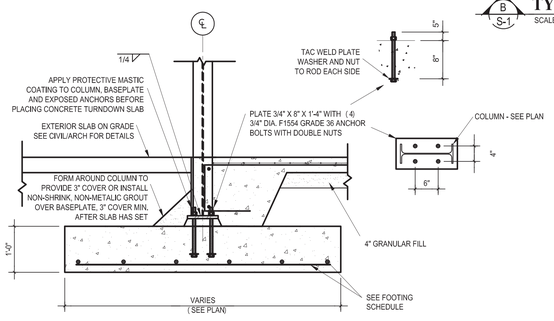
D S-1 TYP. SHEAR WALL FOOTING AT EXTERIOR WALL

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



E S-1 TYP. SECTION @ COLUMN AND SHEAR WALL

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



NOTE: PROVIDE A MINIMUM OF 3" COVER TO ALL BASE PLATES AND ANCHOR BOLTS

F S-1 TYP. SECTION AT EXTERIOR WALL COLUMN

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

GWINNETT COUNTY

Department of Planning and Development

These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.

Sep 02, 2020

AUTHORIZED

BLD2020-04937

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GEORGIA REGISTERED NO. PE040626 PROFESSIONAL ENGINEER DOUGLAS B. AYCOCK

02/28/2018

SHEET TITLE

FOUNDATION PLAN AND DETAILS

REVISIONS	
1	02-27-18 REVISED COLUMNS

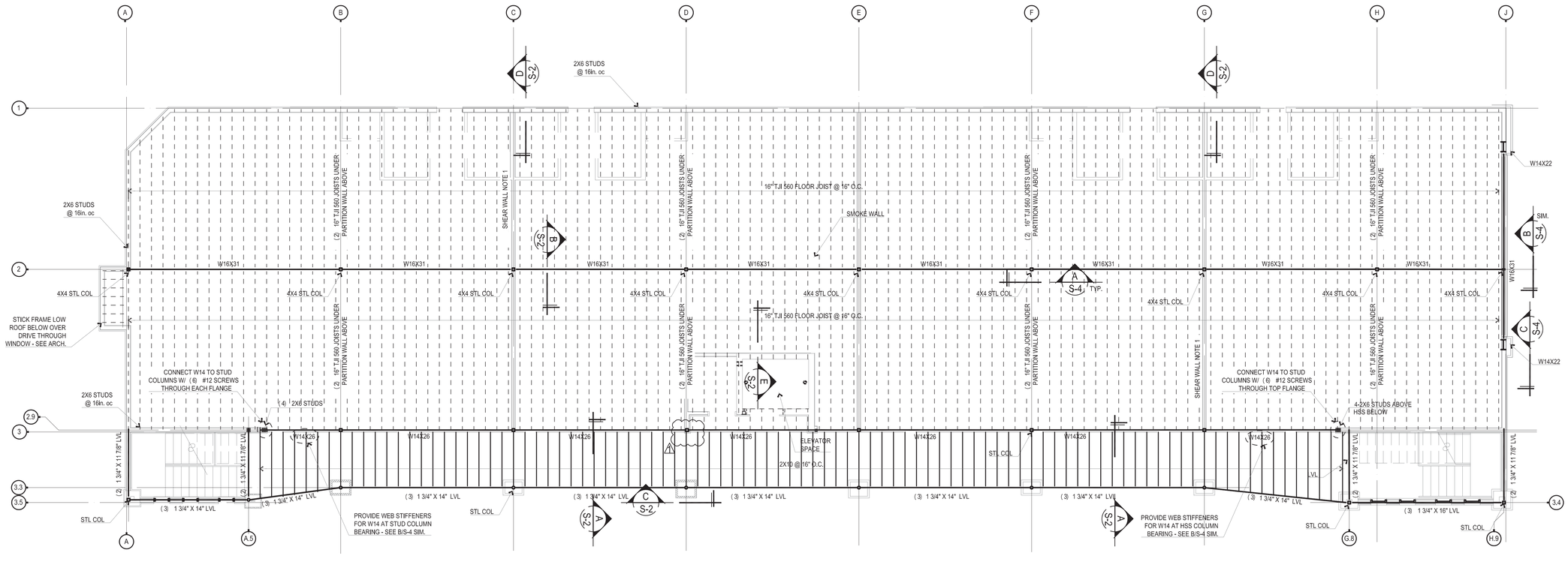
JOB TITLE

JIMMY CARTER CONVENIENCE STORE
TA DESIGN GROUP, INC.
JIMMY CARTER BLVD
PEACHTREE CORNERS, GEORGIA

Drawn	Proj. no.
M. STEFANO	17-133
Checked	Date
D. AYCOCK	06/09/17

Sheet Number

S-1

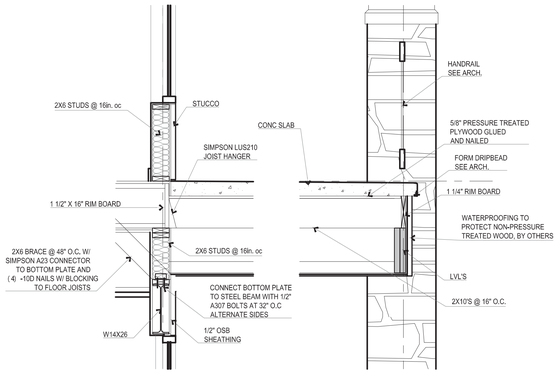


SECOND FLOOR PLAN

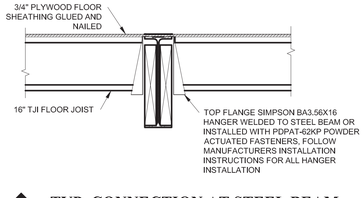
3/16" = 1'-0"

SHEAR WALL NOTE 1: INTERIOR WALLS ALONG COLUMN LINE C AND G SHALL BE SHEATHED WITH 1/2" OSD (OR EQUAL) SHEATHING RATED FOR SHEAR RESISTANCE FULL HEIGHT FROM SLAB ON GRADE TO ROOF DOUBLE TOP PLATE. THE SHEATHING SHALL BE FASTENED WITH 8D COMMON NAILS @ 4" O.C. ON PANEL EDGES AND 12" O.C. IN THE FIELD. INSTALL END POST, HOLDDOWN, AND END POST CONNECTOR AS SHOWN IN PLAN SECTION CUTS AT EACH END OF SHEAR WALL.

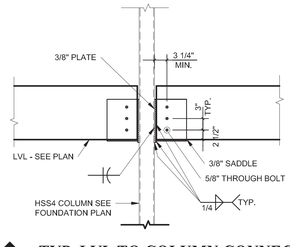
NOTE: HEADERS AT STOREFRONT ON COLUMN LINE J SHALL BE (3) T 3/4" X 11 7/8" LVL'S. HEADERS TO BE SUPPORTED BY HSS4 AND W14 COLUMNS SHOWN IN PLAN USING SADDLES. SEE DETAIL C/S-2.



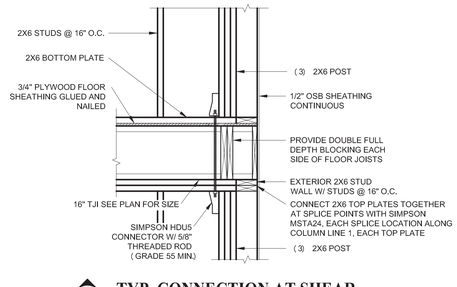
A S-2 **WALKWAY DETAIL**
SCALE: NOT TO SCALE



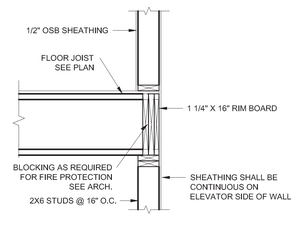
B S-2 **TYP. CONNECTION AT STEEL BEAM**
SCALE: 3/4" = 1'-0"



C S-2 **TYP. LVL TO COLUMN CONNECTION**
SCALE: 3/4" = 1'-0"



D S-2 **TYP. CONNECTION AT SHEAR WALL END POST - 2NDFLOOR**
SCALE: 3/4" = 1'-0"



E S-2 **TYP. SECTION AT ELEVATOR**
SCALE: 3/4" = 1'-0"

GWINNETT COUNTY
Department of Planning and Development
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Sep 02, 2020
AUTHORIZED

BLD2020-04937

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GEORGIA REGISTERED NO. PE040626 PROFESSIONAL ENGINEER DOUGLAS B. AYCOCK
02/28/2018

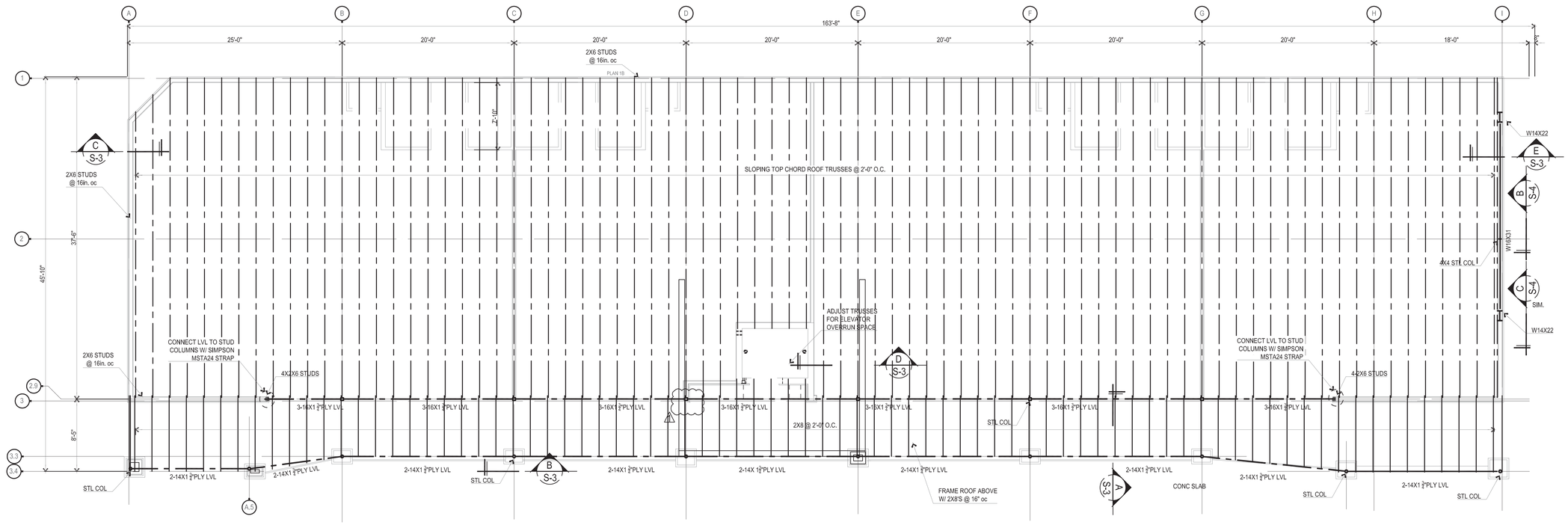
SHEET TITLE
SECOND FLOOR FRAMING PLAN AND DETAILS

REVISIONS
1	02-27-18 REVISED COLUMNS

JOB TITLE
JIMMY CARTER CONVENIENCE STORE
TA DESIGN GROUP, INC.
JIMMY CARTER BLVD
PEACHTREE CORNERS, GEORGIA

Drawn	Proj no.
M. STEFANO	17-133
Checked	Date
D. AYCOCK	06/09/17

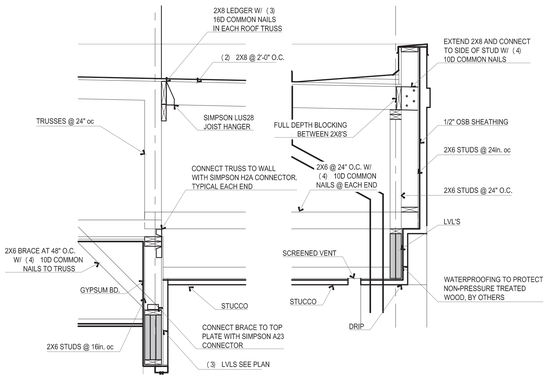
Sheet Number
S-2



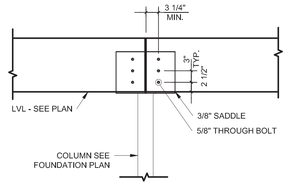
ROOF FRAMING PLAN

3/16" = 1'-0"

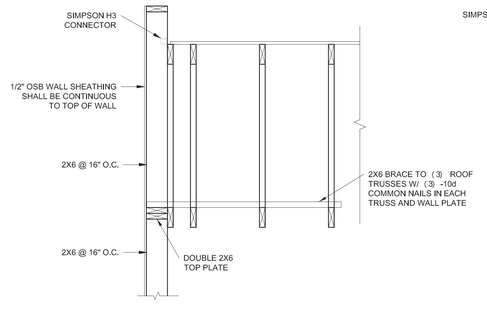
NOTE: HEADERS AT STOREFRONT ON COLUMN LINE J SHALL BE (3) 7 3/4" X 11 7/8" LVLS. HEADERS TO BE SUPPORTED BY HSS4 AND W14 COLUMNS SHOWN IN PLAN USING SADDLES. SEE DETAIL C/S-2.



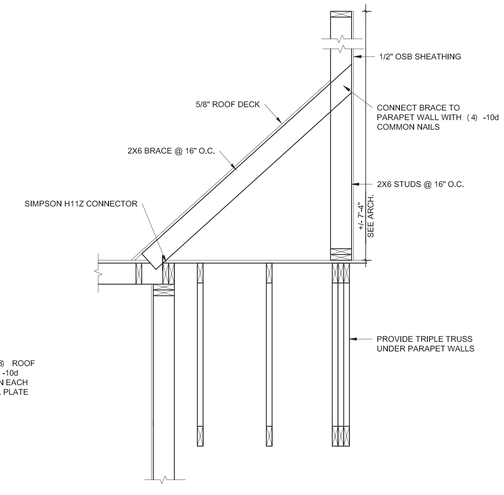
A S-3 **WALKWAY DETAIL**



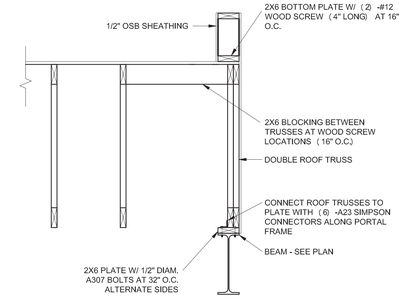
B S-3 **TYP. LVL TO LVL CONNECTION**
SCALE: 3/4" = 1'-0"



C S-3 **TYP. CONNECTION AT ROOF**
SCALE: 3/4" = 1'-0"



D S-3 **TYP. SECTION AT PARAPET WALL**
SCALE: 3/4" = 1'-0"



E S-3 **TYP. CONNECTION AT ROOF**
SCALE: 3/4" = 1'-0"

GWINNETT COUNTY
Department of Planning and Development
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Sep 02, 2020
AUTHORIZED

BLD2020-04937

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GEORGIA REGISTERED NO. PE040626 PROFESSIONAL ENGINEER DOUGLAS B. AYCOCK
02/28/2018

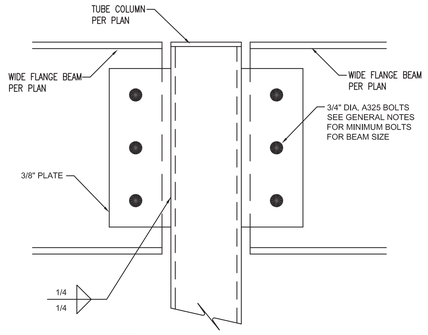
SHEET TITLE
ROOF FRAMING PLAN AND DETAILS

REVISIONS
1	02-27-18 REVISED COLUMNS

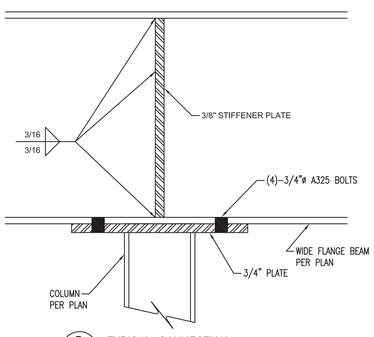
JOB TITLE
JIMMY CARTER CONVENIENCE STORE
TA DESIGN GROUP, INC.
JIMMY CARTER BLVD
PEACHTREE CORNERS, GEORGIA

Drawn	Proj no.
M. STEFANO	17-133
Checked	Date
D. AYCOCK	06/09/17

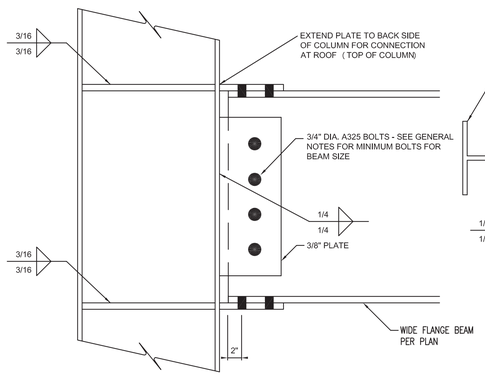
Sheet Number
S-3



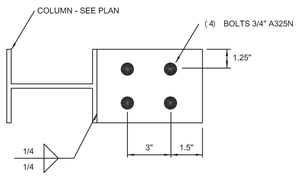
A S-4 TYPICAL CONNECTION
SCALE: NOT TO SCALE



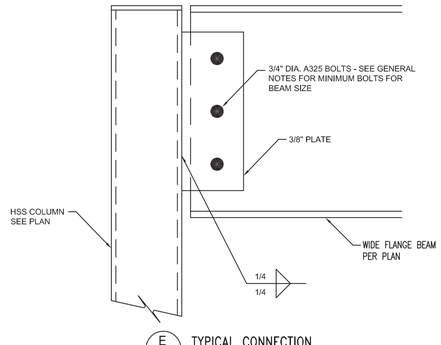
B S-4 TYPICAL CONNECTION
SCALE: NOT TO SCALE



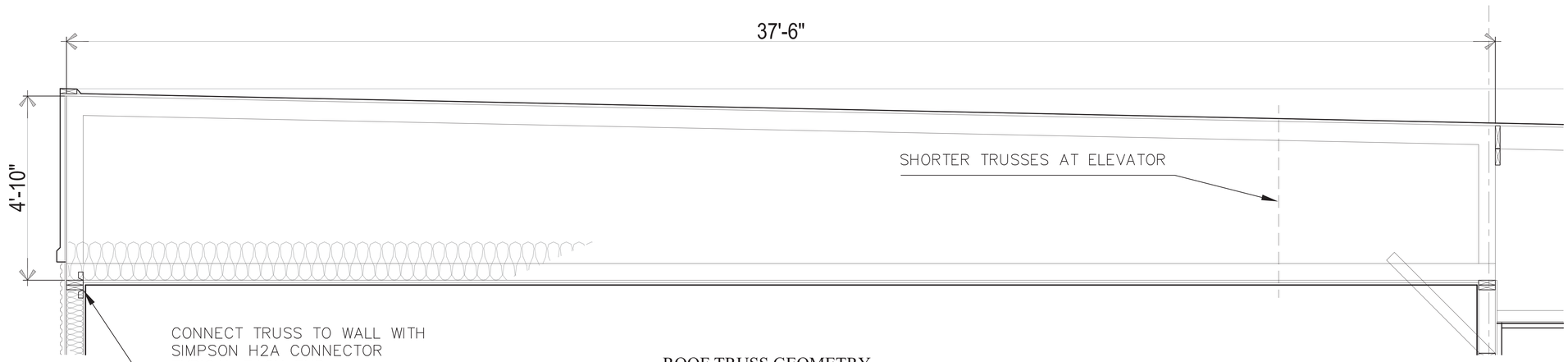
MOMENT CONNECTION AT PORTAL FRAME
C S-4 SCALE: NOT TO SCALE



D S-4 TYPICAL CONNECTION
SCALE: NOT TO SCALE

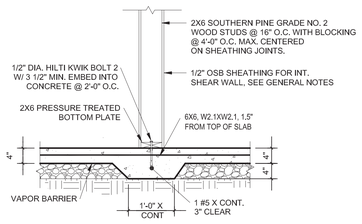


E S-4 TYPICAL CONNECTION
SCALE: NOT TO SCALE

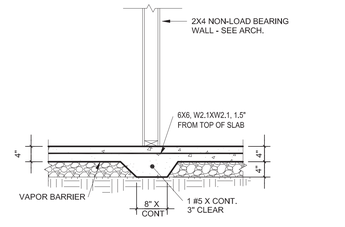


ROOF TRUSS GEOMETRY

VARIFY IN FIELD



F S-4 TYP. SECTION AT INTERIOR SHEAR WALL - COL. LINES "C" AND "G"
SCALE: 3/4" = 1'-0"



G S-4 TYP. SECTION AT INTERIOR NON-LOAD BEARING WALL - COL. LINE "E"
SCALE: 3/4" = 1'-0"

GWINNETT COUNTY
Department of Planning and Development
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Sep 02, 2020
AUTHORIZED

BLD2020-04937

Kornegay Engineering Inc.
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GEORGIA REGISTERED NO. PE040826 PROFESSIONAL ENGINEER D. S. B. AYCOCK
6/21/2017

SHEET TITLE
FRAMING DETAILS

REVISIONS

JOB TITLE
JIMMY CARTER CONVENIENCE STORE
TA DESIGN GROUP, INC.
JIMMY CARTER BLVD
PEACHTREE CORNERS, GEORGIA

Drawn	Proj no.
M. STEFANO	17-133
Checked	Date
D. AYCOCK	06/09/17

Sheet Number
S-4

MECHANICAL SPECIFICATIONS

1.0 GENERAL:

1.1 Provide all work, equipment, services, labor, and materials necessary for the installation of complete and functional mechanical systems, equipment, and piping as described or implied by the contract documents.

1.2 The drawings are diagrammatic and are not intended to include every detail of construction, materials, and equipment. Take actual field measurements at the job site in lieu of scaling the drawings.

1.3 Review the contract documents of all trades and coordinate all work with the other trades as necessary to avoid conflicts and interferences.

1.4 All work and materials shall comply with applicable state, local, and national codes (including OSHA).

1.5 Obtain and pay for any and all required permits, inspections, certificates of inspections and approval, and the like and shall deliver such certificates to the Owner.

1.6 Locations shown for supply and return devices, ductwork, equipment, piping, valves, devices, etc., are approximate. Coordinate each location with all trades and actual field conditions so that all code-required servicing clearances are maintained.

1.7 Provide all cutting and patching necessary to properly install all work and to repair any damage done.

1.8 Provide only new materials and equipment listed and labeled as Underwriter's Laboratories, Inc.

1.9 Testing shall comply with all local, state, and national codes.

1.10 Warrant all materials, equipment, and workmanship shown or implied by these documents to be free of defects for a period of one year from the time of acceptance by the Owner.

2.0 PIPING, PIPE FITTINGS, PIPE HANGERS/SUPPORTS, & INSULATION:

2.1 Condensate drain piping shall be Schedule 40 PVC and in accordance with Section 307.2.1 of the 2015 IMC.

3.0 DUCTWORK, DUCTWORK ACCESSORIES, & DUCT INSULATION:

3.1 Ductwork shall be fabricated from the best quality galvanized sheet steel.

3.2 Splitter dampers, balancing dampers, turning vanes, duct transitions, etc., shall be installed generally where shown on the drawings, and where required for the proper control of air flow.

3.3 Round and rectangular ductwork shall meet the gauges and construction methods indicated in the American National Standard (ANSI/SMACNA 006–2006) guide for low pressure ductwork. complying with 2" w.g.

3.4 Flexible ductwork shall be UL #181 Class 1.

3.5 Registers and grilles shall conform with the schedule on the Drawings.

3.6 Hangers and supports for ductwork shall be metal bands, angles, and/or rods per ASHRAE and SMACNA and Section 603.10 on the 2015 IMC.

3.7 Seal the spaces around all ductwork penetrations in an approved manner.

3.8 Joints between ductwork pieces shall comply with Section 603.9 of the 2015 IMC and shall be listed and labeled in accordance with UL 181A for metal ductwork and UL 181B for flexible ducts. All mastic used to seal joints shall also be UL 181 listed and labeled.

3.9 Round ducts shall have the same insulation as specified for rectangular ductwork listed in 3.10.

3.10 Rectangular supply and return air ducts above ceiling shall be insulated with fiberglass all-service duct wrap consisting of a blanket of 2" glass fibers factory-laminated to a reinforced foil (FRK) vapor retarder facing. A 2" stapling and taping flange shall be provided on one edge. Insulation shall meet current performance standards as published by NFPA 90. Insulation shall comply with 1.5 lb./cu.ft. density and shall meet Form B, Type 1, Class B-4 code requirements. Duct wrap will provide a minimum of a 6.0 "R" value.

3.11 In occupancies not required to be equipped with a fire alarm system, actuation of a smoke detector shall activate a visible and an audible signal in an approved location.

3.12 Refrigerant piping shall comply with ANSI B31.5 and shall be Type "K", hard drawn tempered copper; precleaned wrought-copper; solder-joint fittings; brazed joints. BCuP-4 brazing filler material. Install refrigerant piping with 1/4" per foot downward slope in direction of oil return to compressor. Provide traps and double risers where required to provide oil return. Insulation shall be a minimum of 1/2" closed cell neoprene rubber. Armaflex or Rubertex

4.0 EQUIPMENT

4.1 All equipment shall be that which is scheduled on the drawings or equivalent. Provide all appurtenances necessary for the complete and total installation of a system which shall perform satisfactorily under actual weather conditions and situations to be experienced.

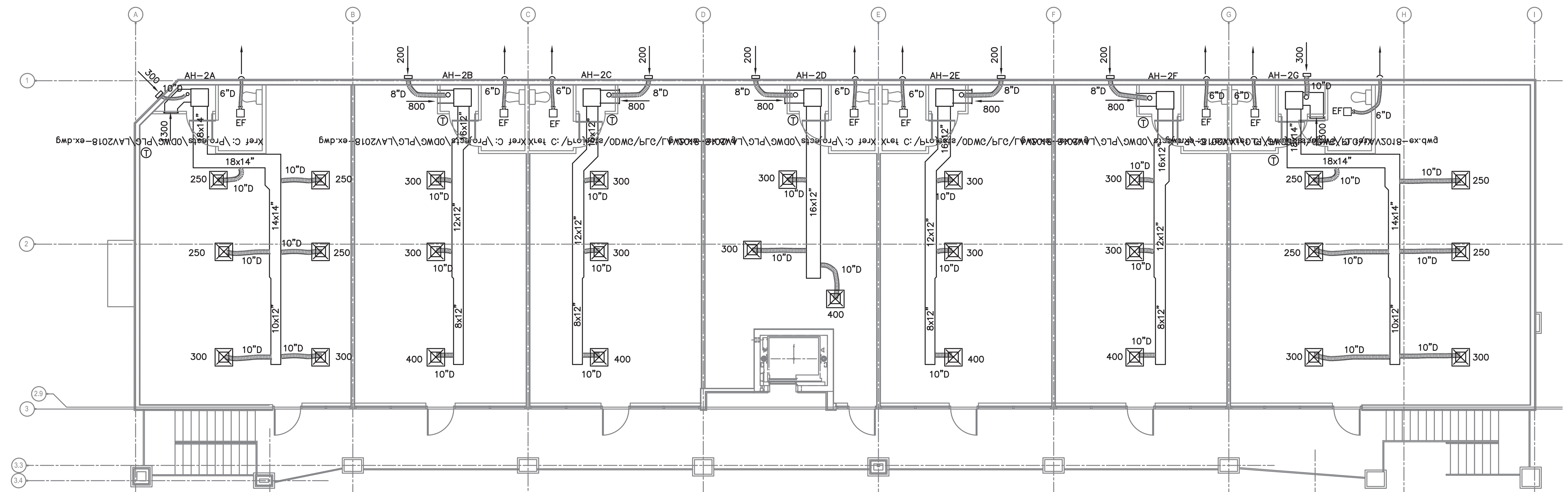
5.0 TEST AND BALANCE:

5.1 All air systems shall be tested and balanced by a company certified in "Testing & Balancing" per Section 403.3.4 of the 2015 IMC.

At the end of balancing, provide a report indicating design CFM and actual CFM for each air device as scheduled.

HEAT PUMP SCHEDULE

UNIT	MANU	MODEL	COOL-btu	HEAT-btu	SEER	VOLTAGE	AMPS
AH-1-A	RHEEM	RP1560A	60000	58000	14	240	50
AH-1-B	RHEEM	RP1548A	48000	46000	14	240	40
AH-1-C	RHEEM	RP1548A	48000	46000	14	240	40
AH-1-D	RHEEM	RP1548A	48000	46000	14	240	40
AH-2-A	RHEEM	RP1536A	30000	29200	14	240	35
AH-2-B	RHEEM	RP1536A	30000	29200	14	240	35
AH-2-C	RHEEM	RP1536A	30000	29200	14	240	35
AH-2-D	RHEEM	RP1536A	30000	29200	14	240	35
AH-2-E	RHEEM	RP1536A	30000	29200	14	240	35
AH-2-G	RHEEM	RP1548A	48000	46000	14	240	40



SECOND FLOOR PLAN-PLUMBING

SCALE: 1/8"= 1'–0"

FANS

TAG	MODEL #	TYPE	DUTY	CFM	ESP	MAX BHP	MAX RPM	MAX SONES	DRIVE	WEIGHT, LBS	NOTES	ACCESSORIES
EF	GEMINI GC–142	CEILING	TOILETS	75	0.375"	59W	1100	2.2	DIRECT	15	1	1,2

NOTE:
1. FAN TO BE INTERLOCKED WITH LIGHT SWITCH

ACCESSORIES:
1. BACKDRAFT DAMPER AT FAN DISCHARGE.
2. PROVIDE WITH WALL CAP WCA–6.

BASIS OF DESIGN: AS NOTED; EQUAL BY: COOK, ACME, PENN

NOTE:
CONTRACTOR SHALL SELECT EQUIPMENT TO MEET PERFORMANCE REQUIREMENTS IN SCHEDULES AND NOT BASED ON MODEL NUMBERS. MODEL NUMBERS ARE A GUIDE.

GWINNETT COUNTY

Department of Planning and Development

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Sep 02, 2020

AUTHORIZED

GRILLES & DIFFUSERS

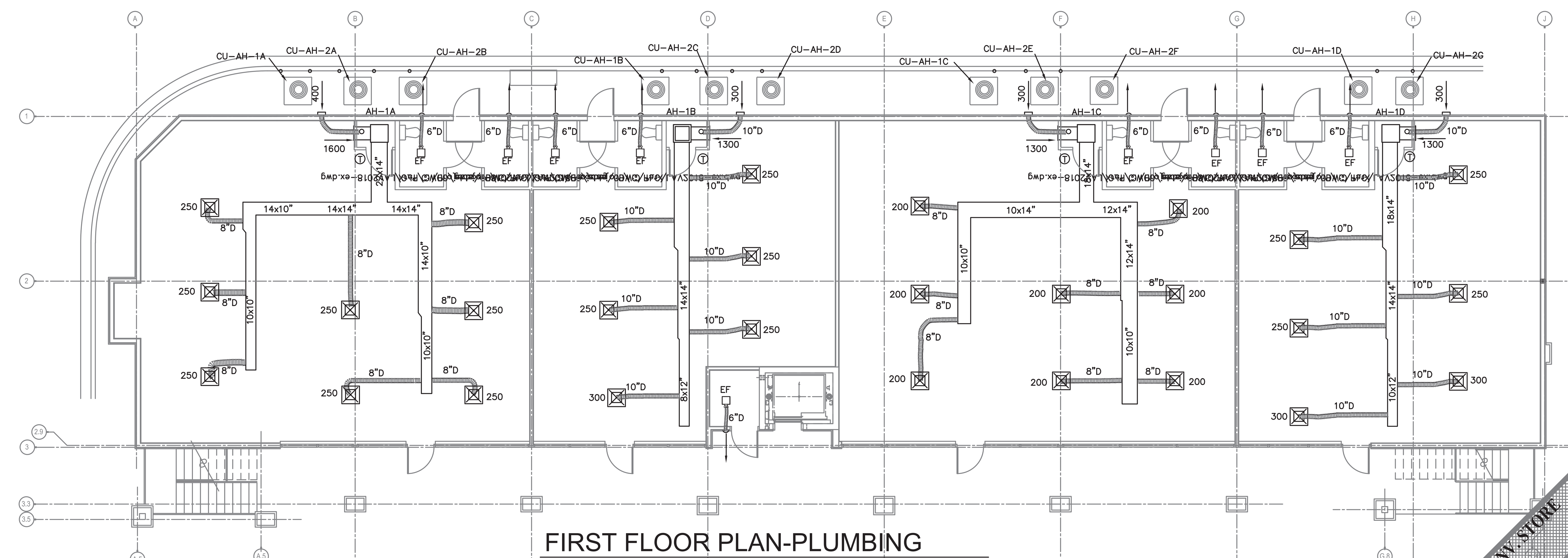
(ALL NOTES APPLY)

	SERIES	TYPE/NOTES	DUTY	INTEGRAL BALANCING DAMPER	SIZE	MATERIAL	ACCESSORIES
	TITUS TMSA	SQUARE LOUVERED DIFFUSER	SUPPLY	YES	24X24	STEEL	1
	TITUS 50F	1"X1"X1" ALLUMINUM GRID, STEEL FRAME	RETURN	NO	24X24	STEEL	2

NOTE:
1. REFER TO ARCHITECTURAL DRAWINGS FOR TYPE OF CEILING AND SUSPENSION SYSTEM.
2. DIFFUSERS SHALL HAVE A BAKED ENAMEL FINISH.
3. RUNOUTS TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK UNLESS NOTED OTHERWISE.
4. PROVIDE SQUARE/RECTANGULAR TO ROUND TRANSITION WHERE INDICATED ON DRAWINGS. SEE PLANS FOR COLLAR SIZE.

ACCESSORIES:
1. PROVIDE PATTERN CONTROLLERS FOR ADJUSTMENT TO VERTICAL & HORIZONTAL AIR DISCHARGE.
2. PROVIDE WITH 8" HIGH PLENUM WITH ROUND COLLAR (SIZE AS INDICATED) WHERE INDICATED ON DRAWINGS.

BASIS OF DESIGN: AS NOTED; EQUAL BY: KRUEGER, METAL–AIRE, PRICE



FIRST FLOOR PLAN-PLUMBING

SCALE: 1/8"= 1'–0"

BLD2020-04937

JIMMY CARTER CONV. STORE

MECHANICAL

TA Design Group, Inc.

M-101

PLUMBING SPECIFICATIONS

1.0 GENERAL:

1.1 Provide all work, equipment, services, labor, and materials necessary for the installation of complete and functional waste, vent domestic cold water, and domestic hot water piping systems, fixtures, and equipment as described or implied by the contract documents.

1.2 The drawings are diagrammatic and are not intended to include every detail of construction, materials, and equipment. Take actual field measurements at the job site in lieu of scaling the drawings.

1.3 Review the contract documents of all trades and coordinate all work with the other trades as necessary to avoid conflicts and interferences.

1.4 All work and materials shall comply with applicable state, local, and national codes (including OSHA).

1.5 Obtain and pay for any and all required permits, inspections, certificates of inspections and approval, and the like and shall deliver such certificates to the Owner.

1.6 Locations shown for fixtures, equipment, piping, cleanouts, valves, etc., are approximate. Coordinate each location with all trades and actual field conditions so that all code requirements are met.

1.7 Provide all cutting and patching necessary to properly install all work and to repair any damage done.

1.8 Perform all excavating and backfilling in a safe manner which shall not endanger the stability of any structure or any part thereof, or any work in place by other trades.

1.9 Provide only new materials and equipment listed and labeled as Underwriter's Laboratories, Inc.

1.10 Testing shall comply with all local, state, and national codes.

1.11 Warrant all materials, equipment, and workmanship shown or implied by these documents to be free of defects for a period of one year from the time of acceptance by the Owner.

2.0 PIPING, PIPE FITTINGS, PIPE HANGERS/SUPPORTS, & INSULATION:

2.1 Domestic water piping above ground shall be seamless copper tubing, ASTM B-88-61, Type L, hard drawn copper with wrought copper fittings.

2.1A Contractor shall have the option to provide and install "Flow Gaurd Gold" CPVC water piping tubing meeting ASTM D-2846 for continuous working pressure of 100 psi and at 180 degrees F. Contractor shall provide and install proper pressure regulators to maintain 100 psi or less. Contractor shall also have the option of using WaterPEX tubing manufactured in accordance with ASTM F-876 and F-877 and listed by National Sanitation Foundation NSF-61. Manufacture recommended fittings and joints shall be used.

2.2 Sanitary waste and vent lines shall be ABS, DWV, and/or PVC Schedule 40.

2.3 Copper pipe fittings shall be wrought metal soldered joint type conforming to ANSI B16.22.

2.4 Install piping and related items neatly with routes generally chosen to be parallel and perpendicular to building lines. Horizontal sanitary piping shall be installed with a uniform slope. Piping with a diameter of 2-1/2" or less shall be sloped 1/4" per linear foot. Piping with a diameter of 3" or greater shall be sloped 1/8" per linear foot.

2.5 Piping shall be arranged so that all valves, traps, and cleanouts are easily accessed. Ream piping to remove all burrs, fins, and foreign materials. Thoroughly clean all piping before soldering. Use only lead-free 95/5 solder. Seal the spaces around all piping penetrations in an approved manner. Water piping below grade shall be installed below the frost line, approximately 18" deep.

2.6 All domestic hot and cold water piping shall be continuously insulated with closed cell neoprene rubber insulation, or fiberglass materials covered by an ASJ jacket, except piping below grade.

2.6 Fixture traps shall be installed on every plumbing fixture except those having integral traps. Traps shall be water-seal, self cleaning "P" traps.

2.7 Provide chromium-plated escutcheons with set screws for all exposed water supplies, traps, and cleanouts.

2.8 Vent pipes shall be flashed and made watertight at the roof.

2.9 Pipe hangers shall be installed in accrodance with Table 308.5 "HANGER SPACING" of the 2015 IPC.

3.0 FIXTURES AND EQUIPMENT:

3.1 All plumbing fixtures shall be equivalent to those scheduled on the Drawings.
All ADA Water closets shall have trip levers on open side of closet opposite side wall.

3.2 Water hydrants shall be key-operated types with freeze-proof features.

3.3 Provide water pressure reducing valve to maintain a max. water pressure of 45 psi in building where inlet pressure utility service is greater than 45 psi.

4.0 STERILIZATION:

4.1 All new domestic water pipe shall be sterilized in accordance with the State Board of health and Section 610.1 of the 2015 IPC.

PLUMBING SYMBOL SCHEDULE

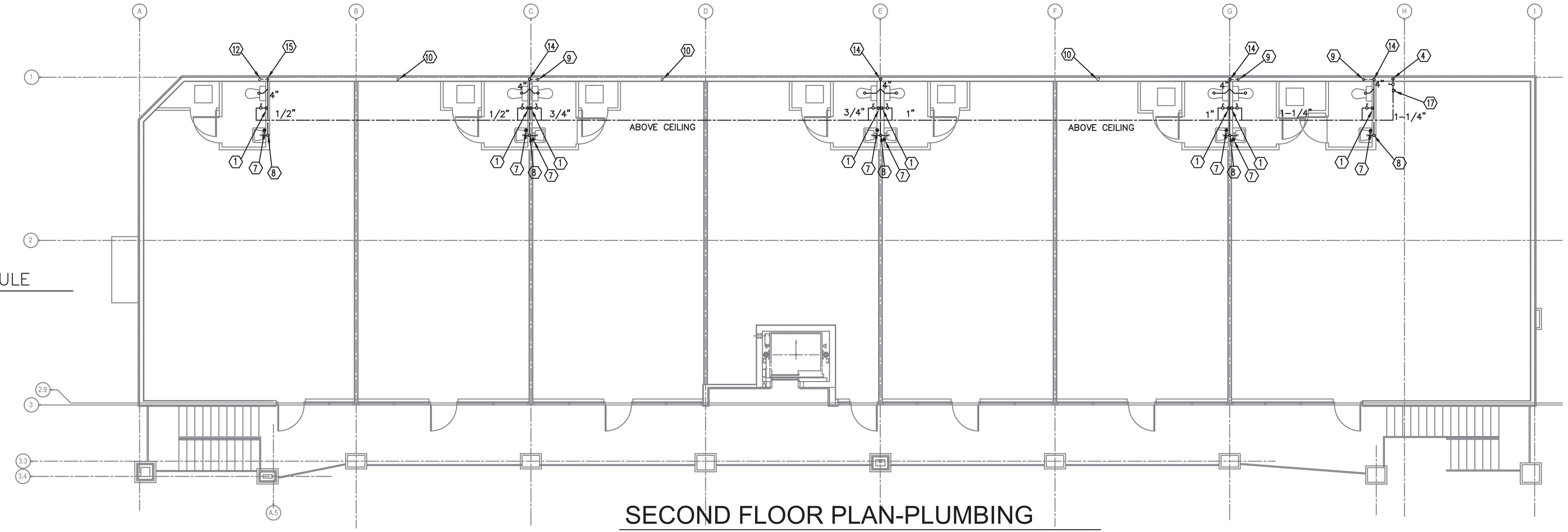
————	SOIL, WASTE OR DRAIN PIPING
- - - - - -	VENT OR EXISTING PIPING
—·—·—	COLD WATER PIPING
—δ—	BALL VALVE
CO. O—	CLEANOUT
	WATER DOWN

PLUMBING FIXTURE SCHEDULE

WC-1	EQUIVALENT TO AMERICAN STD. NO. 2002.012, CHAMPION ELONGATED COMBINATION. 1.6 gpf, 16-1/2" HIGH, TANK WITH FLOAT VALVE AND VACUUM BREAKER, TANK COVER AND CHROME PLATED TRIP HANDLE. PLASTIC SEAT WITH OPEN FRONT AND COVER. ANGLE SUPPLY WITH STOP. ADA. WHITE.
L-1	EQUIVALENT TO AMERICAN STANDARD MODEL NO. 0355.012, LUCERNE, VITREOUS CHIAN, WALL HUNG, 20x18" SIZE WITH BACK SPLASH, FAUCET HOLES 4" ON CENTER, PROVIDE WALL BRACKET INSTALL 34" HIGH FOR HANDICAP. PROVIDE 3/8"ANGLE STOPS AND SUPPLIES, 1-1/4" CAST BRASS "P" TRAP WITH C.O. PLUG. WHITE PROVIDE DELTA FAUCET MODEL NO. 520-WFHDF WASHERLESS SINGLE LEVER (6") WITH 1/2" I.P.S. POP-UP WASTE, CHROME FINISH. PROVIDE SKAL+ GARD INSULATION KIT MODEL NO. 200B BY "TCI PRODUCTS" ON WASTE AND WATER PIPING BELOW LAVATORY.
WH-1	EQUIVALENT TO ZURN MODEL NO. Z-1310, "ANTI SIPNON" AUTOMATIC DRAINING WALL HYDRANT WITH NON-FREEZE INTEGRAL BACKFLOW PREVENTOR AND LOOSE KEY.
ETWH	EQUIVALENT TO "EEMAX" FLOW CONTROLLED ELECTRIC TANKLESS WATER HEATER MOUNTED ON WALL BELOW LAVATORY. MODEL NO. EX-35-SL-240-3.5KW, 240V-1PH, 15 AMPS UL LISTED (SET AT 105 DEGREES)

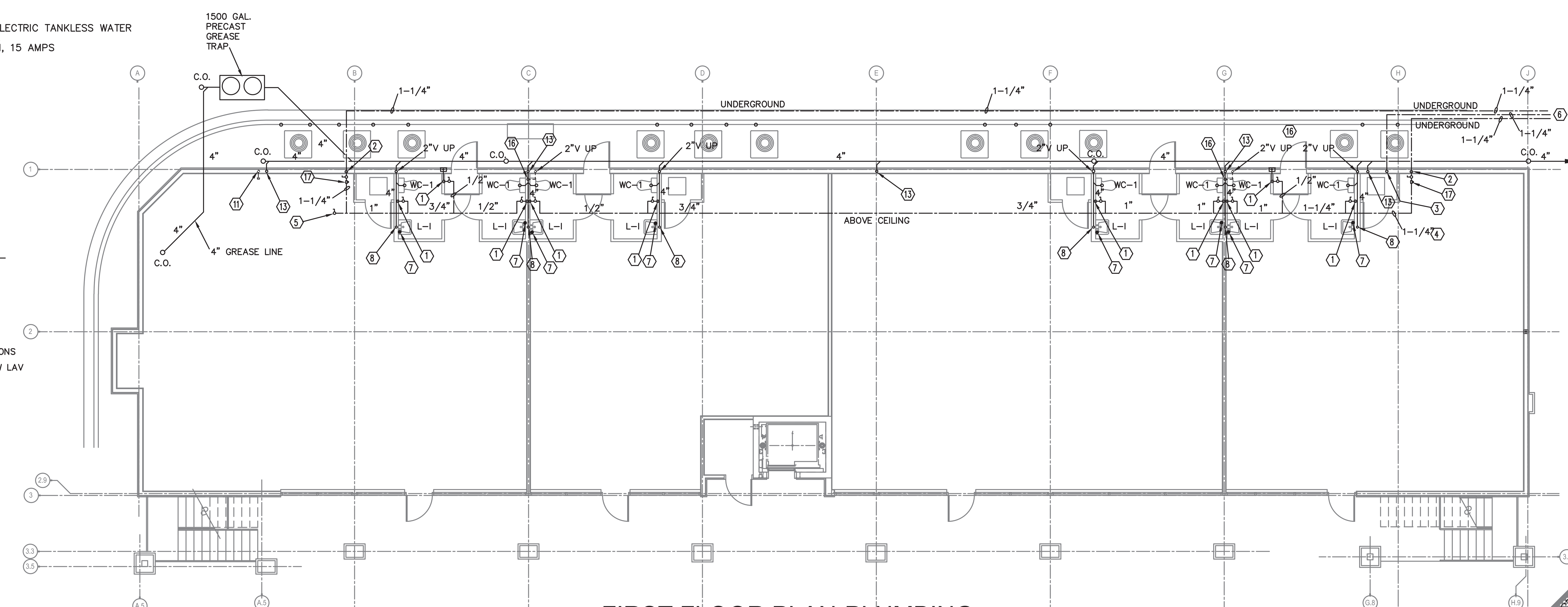
PLUMBING SPECIFIC NOTES

1. 1/2" COLD WATER DOWN TO FIXTURE(S)
2. 1-1/4" WATER SERVICE FROM METER TO ABV. CLG.
3. 1-1/4" WATER SERVICE FROM METER TO TO SECOND FLOOR CEILING
4. 1-1/4" WATER SERVICE FROM BELOW
5. PROVIDE VALVED 1-1/4" FOR FUTURE
6. (3) 1-1/4" WATER SERVICES FROM METER(S) LOCATIONS
7. LOCATION OF FUTURE INSTANT WATER HEATER BELOW LAV (SEE ETWH IN FIXTURE SCHEDULE)
8. 2"W & 1-1/2" VENT
9. 2" VENT FROM BELOW
10. 2" VENT FROM BELOW AND UP THROUGH ROOF
11. 3" VENT UP. CAP FOR FUTURE
12. 3" VENT FROM BELOW AND UP THROUGH ROOF
13. 4" WASTE FROM ABOVE
14. 4" WASTE DOWN AND 2" VENT UP THROUGH ROOF
15. 4" WASTE DOWN AND 2" VENT
16. 2" VENT
17. WATER PRESSURE REDUCING VALVE, SEE SPECS



SECOND FLOOR PLAN-PLUMBING

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



FIRST FLOOR PLAN-PLUMBING

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

GWINNETT COUNTY

Department of Planning and Development

These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.

Sep 02, 2020

AUTHORIZED

BLD2020-04937

STATE OF GEORGIA · CDC-INC CONSULTANTS · NO. PEF004580 · CERTIFICATE OF AUTHORIZATION

GEORGIA · REGISTERED · NO. PE 031530 · PROFESSIONAL ENGINEER · GARLAND KELLOGG HOXIT

JIMMY CARTER CONV. STORE
JIMMY CARTER BLVD.
PLUMBING

TA Design Group, Inc.
pob 81226 Chamblee, GA 30366
tadgi.com
864-553-2474

12-20-16

AS SHOWN

P-101

1525

GENERAL ELECTRICAL NOTES:

1. ALL WORK IS TO BE PERFORMED USING THE FOLLOWING CODES:

NFPA NATIONAL ELECTRIC -	2014 EDITION
INTERNATIONAL MECHANICAL -	2015 EDITION
INTERNATIONAL BUILDING -	2015 EDITION
INTERNATIONAL FUEL GAS -	2015 EDITION
INTERNATIONAL PLUMBING -	2015 EDITION
INTERNATIONAL ENERGY CONSERVATION -	2009 EDITION
INTERNATIONAL FIRE -	2015 EDITION
NFPA 101 LIFE SAFETY -	2015 EDITION
LOCAL FIRE AND LIFE SAFETY ORDINANCE	CURRENT
NFPA CODES AS ADOPTED BY STATE FIRE	CURRENT
DESIGN STANDARDS FOR ACCESSIBILITY -	2015 EDITION

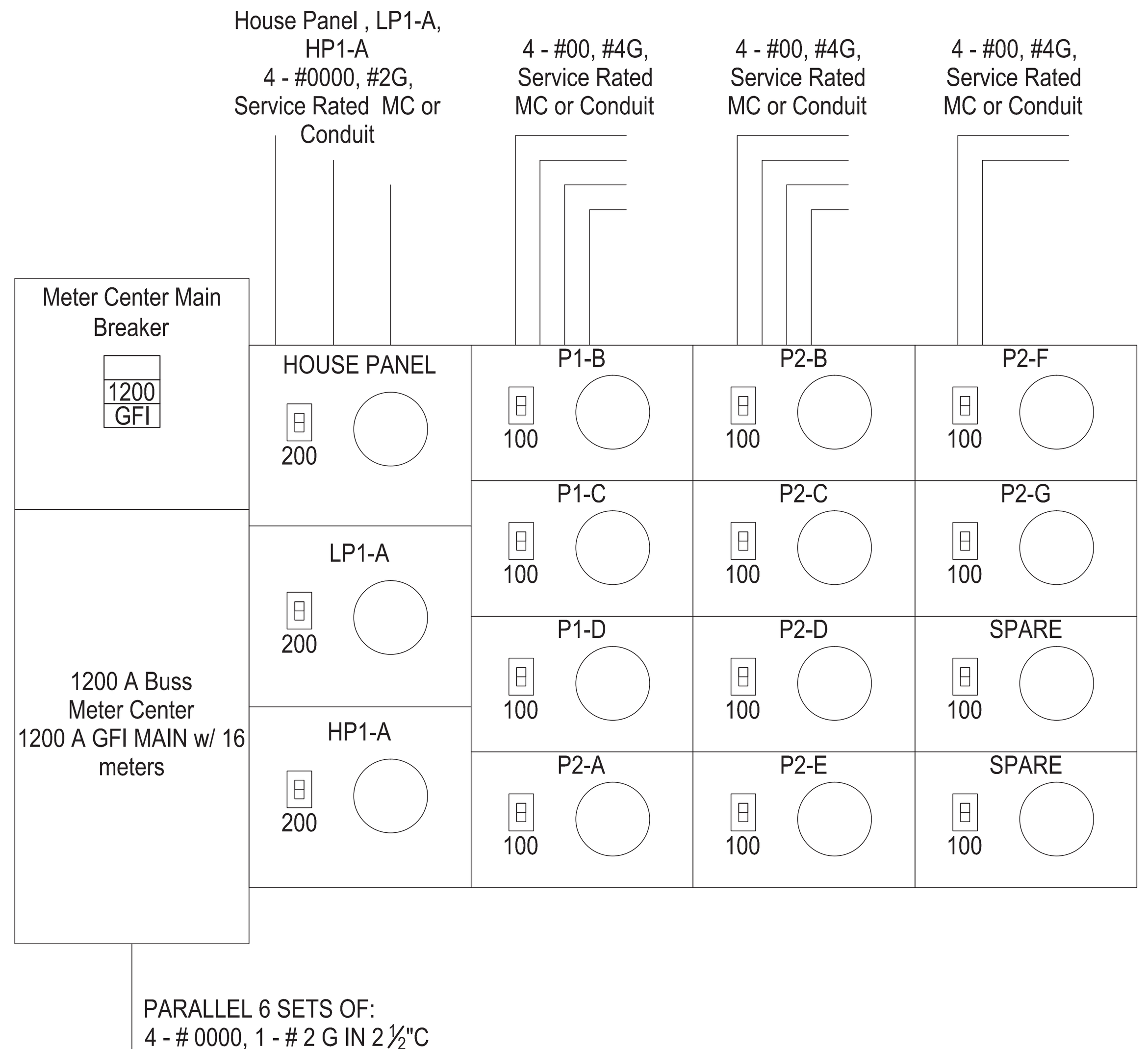
2. ELECTRICAL CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS OF ALL MECHANICAL AND PLUMBING EQUIPMENT PRIOR FURNISHING ELECTRICAL COMPONENTS SERVING SUCH EQUIPMENT.

3. ANY MATERIAL, EQUIPMENT, METHOD, OR PROCEDURE CALLED OUT ON THIS DRAWING DOES NOT RESTRICT THE CONTRACTORS FROM USING ALTERNATE MATERIAL, EQUIPMENT, METHODS, OR PROCEDURES WHICH MEET ALL APPLICABLE BUILDING CODES AND WILL PROVIDE A REASONABLE COMPARABLE LEVEL OF QUALITY AND FUNCTION. SUBMIT REQUEST AND EXPLANATION OF CHANGES TO ARCHITECT OR ENGINEER FOR APPROVAL BEFORE PROCEEDING WITH WORK.

4. EXIT & EMERGENCY LIGHTING SHALL BE SUPPLIED POWER BY UN-SWITCHED CONDUCTERS FROM A CIRCUIT SERVING THE NORMAL LIGHTING FOR EACH AREA COVERED TO THE FULLEST EXTENT POSSIBLE.
ALL WIRING TO BE #12 GA UNLESS NOTED OTHERWISE.
BOND SERVICE GROUNDING CONDUCTOR TO A 10 FOOT LENGTH OF BUILDING FOUNDATION REINFORCING WITH AN APPROVED EXOTHERMIC WELDING PROCEDURE.
BOND SERVICE GROUNDING CONDUCTOR TO STEELSTRUCTURE IN AN ACCESSIBLE LOCATION WITH A LISTED AND APPROVED CLAMPING DEVICE USING APPROVED ATTACHMENT PROCEDURES.

5. BOND SERVICE GROUNDING CONDUCTOR TO METAL WATER PIPES WITH A LISTED AND APPROVED CLAMPING DEVICE USING APPROVED ATTACHMENT PROCEDURES.(WHERE AVAIL.)

6. ALL ELECTRICAL SERVICE ENTRANCE EQUIPMENT SHALL HAVE A MINIMUM INTEGRATED EQUIPMENT RATING CAPACITY THAT EXCEEDS THE AVAILABLE FAULT CURRENT FROM THE LOCAL UTILITY BUT NOT LESS THAN A MINIMUM CAPACITY OF 10,000 AMPERES RMS SYMMETRICAL.



POWER RISER

NOT TO SCALE

Panel HOUSE PANEL

BUSS: 200 | MAIN: 200 | VOLTAGE / PHASE: 208 120 | MOUNTING: SURFACE | SERVICE ENTRY: BOTTOM

FEEDER SIZE, SEE RISER | SHORT CIRCUIT CAPACITY: SERVICE ENTRANCE RATED

CIRCUIT #	WIRE SIZE	GND SIZE	# WIRES	COND SIZE "	CIRCUIT DESCRIPTION	LOAD KVA / POLE # A	# B	# C	BREAKER TRIP	BREAKER POLE	BREAKER POLE	BREAKER TRIP	LOAD KVA / POLE #A	#B	#C	CIRCUIT DESCRIPTION	COND SIZE "	# WIRES	GND SIZE	WIRE SIZE	CIRCUIT #
1	12	12	3	0.50	EXTERIOR LIGHTS 1'ST FLOOR	1.5			20	1	1	20	1.0			RECEPTICAL WALK WAY 1'ST	0.5	3	12	12	2
3	12	12	3	0.50	EXTERIOR LIGHTS 2'ST FLOOR		1.5		20	1				1.0		RECEPTICAL WALK WAY 2'ST	0.5	3	12	12	4
5	12	12	3	0.50	EXTERIOR LIGHTS WALL TOP			1.5	20	1	1	20			0.3	PHOTO CELL POWER	0.5	3	12	12	6
7	12	12	3	0.50	EXTERIOR LIGHTS WALL TOP	1.5			20	1	1	20	1.5			EXTERIOR LIGHTS REAR 1'ST FLOOR	0.5	3	12	12	8
9	12	12	3	0.50	ELEVATOR PIT LIGHT		0.5		20	1	1	20		1.0		ELEVATOR ROOM SERVICE RECEPT	0.5	3	12	12	10
11	12	12	3	0.50	ELEVATOR ROOM LIGHT			0.5	20	1						SPARE					12
13	10	10	3	0.75	ELEVATOR ROOM HEATER	1.5			30	2						SPARE					14
15					"		1.5		"							SPARE					16
17	12	12	3	0.50	PIT SERVICE RECEPTICAL			0.5	20	1						SPARE					18
19	12	12	3	0.50	PIT SUMP PUMP	1.0			20	1						SPARE					20
21	12	12	3	0.50	ELEVATOR CAB LIGHT		0.8		20	1						SPARE					22
23					SPARE											SPARE					24
25					SPARE											SPARE					26
27					SPARE											SPARE					28
29					SPARE											SPARE					30
31					SPARE											SPARE					32
33					SPARE											SPARE					34
35					SPARE											SPARE					36
37					SPARE											SPARE					38
39					SPARE											SPARE					40
41					SPARE											SPARE					42
					PHASE SUB TOTALS:	5.5	4.3	2.5					2.5	2.0	0.3	PHASE SUB TOTALS:					

TOTAL PHASE A: 8.0 | TOTAL PHASE B: 6.3 | TOTAL PHASE C: 2.8

TOTAL CONNECTED KVA: 17.0 KVA

TOTAL PHASE A LINE CURRENT = 66.6 | TOTAL PHASE B LINE CURRENT = 52.0 | TOTAL PHASE C LINE CURRENT = 22.9

Panel PP1-A

BUSS: 200 | MAIN: 200 | VOLTAGE / PHASE: 208 120 | MOUNTING: SURFACE | SERVICE ENTRY: BOTTOM

FEEDER SIZE, SEE RISER | SHORT CIRCUIT CAPACITY: SERVICE ENTRANCE RATED

CIRCUIT #	WIRE SIZE	GND SIZE	# WIRES	COND SIZE "	CIRCUIT DESCRIPTION	LOAD KVA / POLE # A	# B	# C	BREAKER TRIP	BREAKER POLE	BREAKER POLE	BREAKER TRIP	LOAD KVA / POLE #A	#B	#C	CIRCUIT DESCRIPTION	COND SIZE "	# WIRES	GND SIZE	WIRE SIZE	CIRCUIT #
1	4	8	3	1.25	HVAC COMPRESSOR	5.4			50HRAC	3	1	20	0.5			RECEPTICALS	0.50	3	12	12	2
3					"		5.4		"	"	1	20		0.5		RECEPTICALS	0.50	3	12	12	4
5					"			5.4	"	"	2	60			5.0	AIR HANDLER	1.25	3	8	4	6
7	12	12	3	0.50	REST ROOM RECEPTICALS	0.3			20	1	"	"	5.0			"					8
9											2	30		2.5		WATER HEATER	0.75	3	10	10	10
11											"	"			2.5	"					12
13																					14
15																					16
17																					18
19																					20
21																					22
23																					24
25																					26
27																					28
29																					30
31																					32
33																					34
35																					36
37																					38
39																					40
41																					42
					PHASE SUB TOTALS:	5.7	5.4	5.4					5.5	3.0	7.5	PHASE SUB TOTALS:					

TOTAL PHASE A: 11.2 | TOTAL PHASE B: 8.4 | TOTAL PHASE C: 12.9

TOTAL CONNECTED KVA: 32.5 KVA

TOTAL PHASE A LINE CURRENT = 92.85 | TOTAL PHASE B LINE CURRENT = 69.95 | TOTAL PHASE C LINE CURRENT = 107.42

Panel LP1-A

BUSS: 200 | MAIN: 200 | VOLTAGE / PHASE: 208 120 | MOUNTING: SURFACE | SERVICE ENTRY: BOTTOM

FEEDER SIZE, SEE RISER | SHORT CIRCUIT CAPACITY: SERVICE ENTRANCE RATED

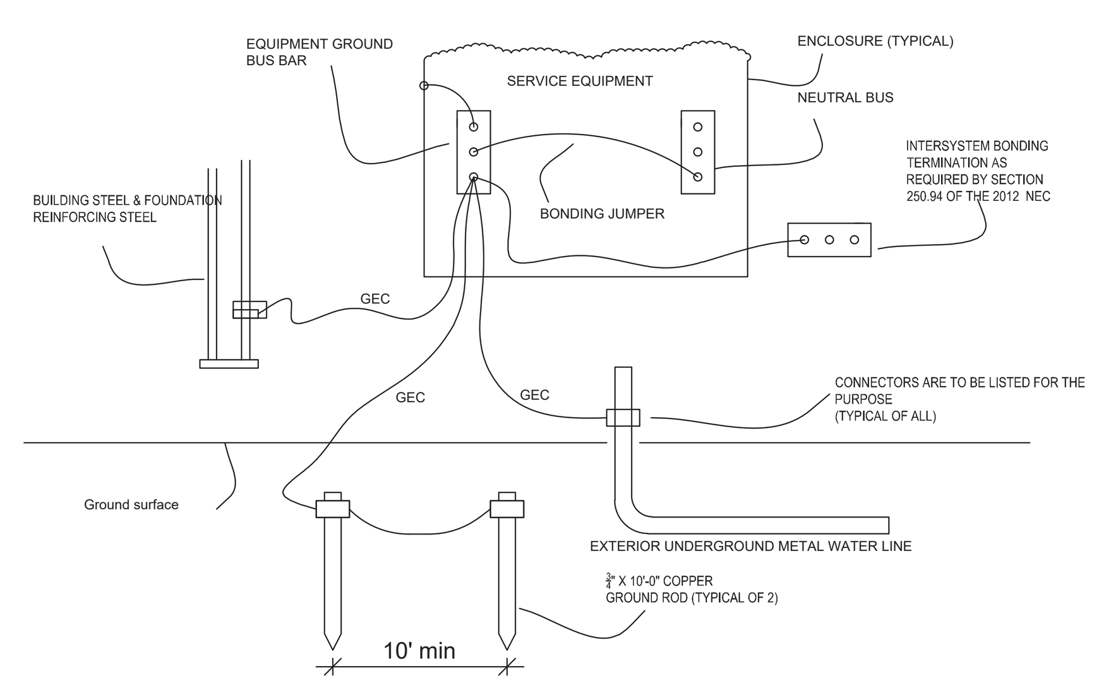
CIRCUIT #	WIRE SIZE	GND SIZE	# WIRES	COND SIZE "	CIRCUIT DESCRIPTION	LOAD KVA / POLE # A	# B	# C	BREAKER TRIP	BREAKER POLE	BREAKER POLE	BREAKER TRIP	LOAD KVA / POLE #A	#B	#C	CIRCUIT DESCRIPTION	COND SIZE "	# WIRES	GND SIZE	WIRE SIZE	CIRCUIT #
1	12	12	3	0.5	LIGHTING		1.5		20	1	1	20		1.2		LIGHTING	0.5	3	12	12	2
3					SPARE					1	1	20			1.0	EXTERIOR LIGHTING	0.5	3	12	12	4
5	12	12	3	0.5	SIGN CIRCUIT	1.6			20	1						SPARE					6
7					SPARE											SPARE					8
9					SPARE											SPARE					10
11					SPARE											SPARE					12
13																SPARE					14
15																SPARE					16
17																SPARE					18
19																					20
					PHASE SUB TOTALS:	1.6	1.5	0.0					0.0	1.2	1.0	PHASE SUB TOTALS:					

TOTAL PHASE A: 1.6 | TOTAL PHASE B: 2.7 | TOTAL PHASE C: 1.0

TOTAL CONNECTED KVA: 5.3 KVA

TOTAL PHASE A LINE CURRENT = 13.32 | TOTAL PHASE B LINE CURRENT = 22.48 | TOTAL PHASE C LINE CURRENT = 8.33

ALL GROUNDING ELECTRODE CONDUCTORS (GEC) SHOWN BELOW ARE FULL SIZE GROUNDING CONDUCTORS PER NEC 250.66 (SEE POWER RISER DIAGRAM)



Panel P1-B

BUSS: 100 | MAIN: 100 | VOLTAGE / PHASE: 208 120 | MOUNTING: SURFACE | SERVICE ENTRY: BOTTOM

FEEDER SIZE, SEE RISER | SHORT CIRCUIT CAPACITY: SERVICE ENTRANCE RATED

CIRCUIT #	WIRE SIZE	GND SIZE	# WIRES	COND SIZE "	CIRCUIT DESCRIPTION	LOAD KVA / POLE # A	# B	# C	BREAKER TRIP	BREAKER POLE	BREAKER POLE	BREAKER TRIP	LOAD KVA / POLE #A	#B	#C	CIRCUIT DESCRIPTION	COND SIZE "	# WIRES	GND SIZE	WIRE SIZE	CIRCUIT #
1	12	12	3	0.5	RECEPTICALS	0.8			20	1	1	20	0.8			RECEPTICALS	0.5	3	12	12	2
3	12	12	3	0.5	LIGHTING		1.5		20	1	1	20		1.2		LIGHTING	0.5	3	12	12	4
5	12	12	3	0.5	REST ROOM RECEPTICALS			0.5	20	1	1	20			1.0	EXTERIOR LIGHTING	0.5	3	12	12	6
7	12	12	3	0.5	SIGN CIRCUIT	1.6			20	1	2	30	2.5			WATER HEATER	0.8	3	10	10	8
9					SPARE									2.5		"					10
11					SPARE						2	60			6.6	AIR HANDLER	1.0	3	8	4	12
13					SPARE						"	"	6.6			"					14
15	6	10	4	1.0	HVAC COMPRESSOR		4.8		50HRAC	3						SPARE					16
17					"			4.8	"	"						SPARE					18
19					"	4.8			"	"						SPARE					20
					PHASE SUB TOTALS:	7.2	6.3	5.3					9.9	3.7	7.6	PHASE SUB TOTALS:					

TOTAL PHASE A: 17.0 | TOTAL PHASE B: 10.0 | TOTAL PHASE C: 12.9

TOTAL CONNECTED KVA: 39.9 KVA

TOTAL PHASE A LINE CURRENT = 141.56 | TOTAL PHASE B LINE CURRENT = 83.27 | TOTAL PHASE C LINE CURRENT = 107.42

Panel P1-C

BUSS: 100 | MAIN: 100 | VOLTAGE / PHASE: 208 120 | MOUNTING: SURFACE | SERVICE ENTRY: BOTTOM

FEEDER SIZE, SEE RISER | SHORT CIRCUIT CAPACITY: SERVICE ENTRANCE RATED

CIRCUIT #	WIRE SIZE	GND SIZE	# WIRES	COND SIZE "	CIRCUIT DESCRIPTION	LOAD KVA / POLE # A	# B	# C	BREAKER TRIP	BREAKER POLE	BREAKER POLE	BREAKER TRIP	LOAD KVA / POLE #A	#B	#C	CIRCUIT DESCRIPTION	COND SIZE "	# WIRES	GND SIZE	WIRE SIZE	CIRCUIT #
1	12	12	3	0.5	RECEPTICALS	0.8			20	1	1	20	0.8			RECEPTICALS	0.5	3	12	12	2
3	12	12	3	0.5	LIGHTING		1.5		20	1	1	20		1.2		LIGHTING	0.5	3	12	12	4
5	12	12	3	0.5	REST ROOM RECEPTICALS			0.5	20	1	1	20			1.0	EXTERIOR LIGHTING	0.5	3	12	12	6
7	12	12	3	0.5	SIGN CIRCUIT	1.6			20	1	2	30	2.5			WATER HEATER	0.8	3	10	10	8
9					SPARE									2.5		"					10
11					SPARE						2	60			6.6	AIR HANDLER	1.0	3	8	4	12
13					SPARE						"	"	6.6			"					14
15	6	10	4	1.0	HVAC COMPRESSOR		4.8		50HRAC	3						SPARE					16
17					"			4.8	"	"						SPARE					18
19					"	4.8			"	"						SPARE					20
					PHASE SUB TOTALS:	7.2	6.3	5.3					9.9	3.7	7.6	PHASE SUB TOTALS:					

TOTAL PHASE A: 17.0 | TOTAL PHASE B: 10.0 | TOTAL PHASE C: 12.9

TOTAL CONNECTED KVA: 39.9 KVA

TOTAL PHASE A LINE CURRENT = 141.56 | TOTAL PHASE B LINE CURRENT = 83.27 | TOTAL PHASE C LINE CURRENT = 107.42

Panel P1-D

BUSS: 100 | MAIN: 100 | VOLTAGE / PHASE: 208 120 | MOUNTING: SURFACE | SERVICE ENTRY: BOTTOM

FEEDER SIZE, SEE RISER | SHORT CIRCUIT CAPACITY: SERVICE ENTRANCE RATED

CIRCUIT #	WIRE SIZE	GND SIZE	# WIRES	COND SIZE "	CIRCUIT DESCRIPTION	LOAD KVA / POLE # A	# B	# C	BREAKER TRIP	BREAKER POLE	BREAKER POLE	BREAKER TRIP	LOAD KVA / POLE #A	#B	#C	CIRCUIT DESCRIPTION	COND SIZE "	# WIRES	GND SIZE	WIRE SIZE	CIRCUIT #
1	12	12	3	0.5	RECEPTICALS	0.8			20	1	1	20	0.8			RECEPTICALS	0.5	3	12	12	2
3	12	12	3	0.5	LIGHTING		1.5		20	1	1	20		1.2		LIGHTING	0.5	3	12	12	4
5	12	12	3	0.5	REST ROOM RECEPTICALS			0.5	20	1	1	20			1.0	EXTERIOR LIGHTING	0.5	3	12	12	6
7	12	12	3	0.5	SIGN CIRCUIT	1.6			20	1	2	30	2.5			WATER HEATER	0.8	3	10	10	8
9					SPARE									2.5		"					10
11					SPARE						2	60			6.6	AIR HANDLER	1.0	3	8	4	12
13					SPARE						"	"	6.6			"					14
15	6	10	4	1.0	HVAC COMPRESSOR		4.8		50HRAC	3						SPARE					16
17					"			4.8	"	"						SPARE					18
19					"	4.8			"	"						SPARE					20
					PHASE SUB TOTALS:	7.2	6.3	5.3					9.9	3.7	7.6	PHASE SUB TOTALS:					

TOTAL PHASE A: 17.0 | TOTAL PHASE B: 10.0 | TOTAL PHASE C: 12.9

TOTAL CONNECTED KVA: 39.9 KVA

TOTAL PHASE A LINE CURRENT = 141.56 | TOTAL PHASE B LINE CURRENT = 83.27 | TOTAL PHASE C LINE CURRENT = 107.42

Panel P2-A

BUSS: 100 | MAIN: 100 | VOLTAGE / PHASE: 208 120 | MOUNTING: SURFACE | SERVICE ENTRY: BOTTOM

FEEDER SIZE, SEE RISER | SHORT CIRCUIT CAPACITY: SERVICE ENTRANCE RATED

CIRCUIT #	WIRE SIZE	GND SIZE	# WIRES	COND SIZE "	CIRCUIT DESCRIPTION	LOAD KVA / POLE # A	# B	# C	BREAKER TRIP	BREAKER POLE	BREAKER POLE	BREAKER TRIP	LOAD KVA / POLE #A	#B	#C	CIRCUIT DESCRIPTION	COND SIZE "	# WIRES	GND SIZE	WIRE SIZE	CIRCUIT #
1	12	12	3	0.5	RECEPTICALS	0.8			20	1	1	20	0.8			RECEPTICALS	0.5	3	12	12	2
3	12	12	3	0.5	LIGHTING		1.5		20	1	1	20		1.2		LIGHTING	0.5	3	12	12	4
5	12	12	3	0.5	REST ROOM RECEPTICALS			0.5	20	1	1	20			1.0	EXTERIOR LIGHTING	0.5	3	12	12	6
7	12	12	3	0.5	SIGN CIRCUIT	1.6			20	1	2	30	2.5			WATER HEATER	0.8	3	10	10	8
9					SPARE									2.5		"					10
11					SPARE						2	60			6.6	AIR HANDLER	1.0	3	8	4	12
13					SPARE						"	"	6.6			"					14
15	6	10	4	1.0	HVAC COMPRESSOR		4.8		50HRAC	3						SPARE					16
17					"			4.8	"	"						SPARE					18
19					"	4.8			"	"						SPARE					20
					PHASE SUB TOTALS:	7.2	6.3	5.3					9.9	3.7	7.6	PHASE SUB TOTALS:					

TOTAL PHASE A: 17.0 | TOTAL PHASE B: 10.0 | TOTAL PHASE C: 12.9

TOTAL CONNECTED KVA: 39.9 KVA

TOTAL PHASE A LINE CURRENT = 141.56 | TOTAL PHASE B LINE CURRENT = 83.27 | TOTAL PHASE C LINE CURRENT = 107.42

Panel P2-B

BUSS: 100 | MAIN: 100 | VOLTAGE / PHASE: 208 120 | MOUNTING: SURFACE | SERVICE ENTRY: BOTTOM

FEEDER SIZE, SEE RISER | SHORT CIRCUIT CAPACITY: SERVICE ENTRANCE RATED

CIRCUIT #	WIRE SIZE	GND SIZE	# WIRES	COND SIZE "	CIRCUIT DESCRIPTION	LOAD KVA / POLE # A	# B	# C	BREAKER TRIP	BREAKER POLE	BREAKER POLE	BREAKER TRIP	LOAD KVA / POLE #A	#B	#C	CIRCUIT DESCRIPTION	COND SIZE "	# WIRES	GND SIZE	WIRE SIZE	CIRCUIT #
1	12	12	3	0.5	RECEPTICALS	0.8			20	1	1	20	0.8			RECEPTICALS	0.5	3	12	12	2
3	12	12	3	0.5	LIGHTING		1.5		20	1	1	20		1.2		LIGHTING	0.5	3	12	12	4
5	12	12	3	0.5	REST ROOM RECEPTICALS			0.5	20	1	1	20			1.0	EXTERIOR LIGHTING	0.5	3	12	12	6
7	12	12	3	0.5	SIGN CIRCUIT	1.6			20	1	2	30	2.5			WATER HEATER	0.8	3	10	10	8
9					SPARE									2.5		"					10
11					SPARE						2	60			6.6	AIR HANDLER	1.0	3	8	4	12
13					SPARE						"	"	6.6			"					14
15	6	10	4	1.0	HVAC COMPRESSOR		4.8		50HRAC	3						SPARE					16
17					"			4.8	"	"						SPARE					18
19					"	4.8			"	"						SPARE					20
					PHASE SUB TOTALS:	7.2	6.3	5.3					9.9	3.7	7.6	PHASE SUB TOTALS:					

TOTAL PHASE A: 17.0 | TOTAL PHASE B: 10.0 | TOTAL PHASE C: 12.9

TOTAL CONNECTED KVA: 39.9 KVA

TOTAL PHASE A LINE CURRENT = 141.56 | TOTAL PHASE B LINE CURRENT = 83.27 | TOTAL PHASE C LINE CURRENT = 107.42

Panel P2-C

BUSS: 100 | MAIN: 100 | VOLTAGE / PHASE: 208 120 | MOUNTING: SURFACE | SERVICE ENTRY: BOTTOM

FEEDER SIZE, SEE RISER | SHORT CIRCUIT CAPACITY: SERVICE ENTRANCE RATED

CIRCUIT #	WIRE SIZE	GND SIZE	# WIRES	COND SIZE "	CIRCUIT DESCRIPTION	LOAD KVA / POLE # A	# B	# C	BREAKER TRIP	BREAKER POLE	BREAKER POLE	BREAKER TRIP	LOAD KVA / POLE #A	#B	#C	CIRCUIT DESCRIPTION	COND SIZE "	# WIRES	GND SIZE	WIRE SIZE	CIRCUIT #
1	12	12	3	0.5	RECEPTICALS	0.8			20	1	1	20	0.8			RECEPTICALS	0.5	3	12	12	2
3	12	12	3	0.5	LIGHTING		1.5		20	1	1	20		1.2		LIGHTING	0.5	3	12	12	4
5	12	12	3	0.5	REST ROOM RECEPTICALS			0.5	20	1	1	20			1.0	EXTERIOR LIGHTING	0.5	3	12	12	6
7	12	12	3	0.5	SIGN CIRCUIT	1.6			20	1	2	30	2.5			WATER HEATER	0.8	3	10	10	8
9					SPARE									2.5		"					10
11					SPARE						2	60			6.6	AIR HANDLER	1.0	3	8	4	12
13					SPARE						"	"	6.6			"					14
15	6	10	4	1.0	HVAC COMPRESSOR		4.8		50HRAC	3						SPARE					16
17					"			4.8	"	"						SPARE					18
19					"	4.8			"	"						SPARE					20
					PHASE SUB TOTALS:	7.2	6.3	5.3					9.9	3.7	7.6	PHASE SUB TOTALS:					

TOTAL PHASE A: 17.0 | TOTAL PHASE B: 10.0 | TOTAL PHASE C: 12.9

TOTAL CONNECTED KVA: 39.9 KVA

TOTAL PHASE A LINE CURRENT = 141.56 | TOTAL PHASE B LINE CURRENT = 83.27 | TOTAL PHASE C LINE CURRENT = 107.42

Panel P2-D

BUSS: 100 | MAIN: 100 | VOLTAGE / PHASE: 208 120 | MOUNTING: SURFACE | SERVICE ENTRY: BOTTOM

FEEDER SIZE, SEE RISER | SHORT CIRCUIT CAPACITY: SERVICE ENTRANCE RATED

CIRCUIT #	WIRE SIZE	GND SIZE	# WIRES	COND SIZE "	CIRCUIT DESCRIPTION	LOAD KVA / POLE # A	# B	# C	BREAKER TRIP	BREAKER POLE	BREAKER POLE	BREAKER TRIP	LOAD KVA / POLE #A	#B	#C	CIRCUIT DESCRIPTION	COND SIZE "	# WIRES	GND SIZE	WIRE SIZE	CIRCUIT #
1	12	12	3	0.5	RECEPTICALS	0.8			20	1	1	20	0.8			RECEPTICALS	0.5	3	12	12	2
3	12	12	3	0.5	LIGHTING		1.5		20	1	1	20		1.2		LIGHTING	0.5	3	12	12	4
5	12	12	3	0.5	REST ROOM RECEPTICALS			0.5	20	1	1	20			1.0	EXTERIOR LIGHTING	0.5	3	12	12	6
7	12	12	3	0.5	SIGN CIRCUIT	1.6			20	1	2	30	2.5			WATER HEATER	0.8	3	10	10	8
9					SPARE									2.5		"					10
11					SPARE						2	60			6.6	AIR HANDLER	1.0	3	8	4	12
13					SPARE						"	"	6.6			"					14
15	6	10	4	1.0	HVAC COMPRESSOR		4.8		50HRAC	3						SPARE					16
17					"			4.8	"	"						SPARE					18
19					"	4.8			"	"						SPARE					20
					PHASE SUB TOTALS:	7.2	6.3	5.3					9.9	3.7	7.6	PHASE SUB TOTALS:					

TOTAL PHASE A: 17.0 | TOTAL PHASE B: 10.0 | TOTAL PHASE C: 12.9

TOTAL CONNECTED KVA: 39.9 KVA

TOTAL PHASE A LINE CURRENT = 141.56 | TOTAL PHASE B LINE CURRENT = 83.27 | TOTAL PHASE C LINE CURRENT = 107.42

Panel P2-E

BUSS: 100 | MAIN: 100 | VOLTAGE / PHASE: 208 120 | MOUNTING: SURFACE | SERVICE ENTRY: BOTTOM

FEEDER SIZE, SEE RISER | SHORT CIRCUIT CAPACITY: SERVICE ENTRANCE RATED

CIRCUIT #	WIRE SIZE	GND SIZE	# WIRES	COND SIZE "	CIRCUIT DESCRIPTION	LOAD KVA / POLE # A	# B	# C	BREAKER TRIP	BREAKER POLE	BREAKER POLE	BREAKER TRIP	LOAD KVA / POLE #A	#B	#C	CIRCUIT DESCRIPTION	COND SIZE "	# WIRES	GND SIZE	WIRE SIZE	CIRCUIT #
1	12	12	3	0.5	RECEPTICALS	0.8			20	1	1	20	0.8			RECEPTICALS	0.5	3	12	12	2
3	12	12	3	0.5	LIGHTING		1.5		20	1	1	20		1.2		LIGHTING	0.5	3	12	12	4
5	12	12	3	0.5	REST ROOM RECEPTICALS			0.5	20	1	1	20			1.0	EXTERIOR LIGHTING	0.5	3	12	12	6
7	12	12	3	0.5	SIGN CIRCUIT	1.6			20	1	2	30	2.5			WATER HEATER	0.8	3	10	10	8
9					SPARE									2.5		"					10
11					SPARE						2	60			6.6	AIR HANDLER	1.0	3	8	4	12
13					SPARE						"	"	6.6			"					14
15	6	10	4	1.0	HVAC COMPRESSOR		4.8		50HRAC	3						SPARE					16
17					"			4.8	"	"						SPARE					18
19					"	4.8			"	"						SPARE					20
					PHASE SUB TOTALS:	7.2	6.3	5.3					9.9	3.7	7.6	PHASE SUB TOTALS:					

TOTAL PHASE A: 17.0 | TOTAL PHASE B: 10.0 | TOTAL PHASE C: 12.9

TOTAL CONNECTED KVA: 39.9 KVA

TOTAL PHASE A LINE CURRENT = 141.56 | TOTAL PHASE B LINE CURRENT = 83.27 | TOTAL PHASE C LINE CURRENT = 107.42

Panel P2-F

BUSS: 100 | MAIN: 100 | VOLTAGE / PHASE: 208 120 | MOUNTING: SURFACE | SERVICE ENTRY: BOTTOM

FEEDER SIZE, SEE RISER | SHORT CIRCUIT CAPACITY: SERVICE ENTRANCE RATED

CIRCUIT #	WIRE SIZE	GND SIZE	# WIRES	COND SIZE "	CIRCUIT DESCRIPTION	LOAD KVA / POLE # A	# B	# C	BREAKER TRIP	BREAKER POLE	BREAKER POLE	BREAKER TRIP	LOAD KVA / POLE #A	#B	#C	CIRCUIT DESCRIPTION	COND SIZE "	# WIRES	GND SIZE	WIRE SIZE	CIRCUIT #
1	12	12	3	0.5	RECEPTICALS	0.8			20	1	1	20	0.8			RECEPTICALS	0.5	3	12	12	2
3	12	12	3	0.5	LIGHTING		1.5		20	1	1	20		1.2		LIGHTING	0.5	3	12	12	4
5	12	12	3	0.5	REST ROOM RECEPTICALS			0.5	20	1	1	20			1.0	EXTERIOR LIGHTING	0.5	3	12	12	6
7	12	12	3	0.5	SIGN CIRCUIT	1.6			20	1	2	30	2.5			WATER HEATER	0.8	3	10	10	8
9					SPARE									2.5		"					10
11					SPARE						2	60			6.6	AIR HANDLER	1.0	3	8	4	12
13					SPARE						"	"	6.6			"					14
15	6	10	4	1.0	HVAC COMPRESSOR		4.8		50HRAC	3						SPARE					16
17					"			4.8	"	"						SPARE					18
19					"	4.8			"	"						SPARE					20
					PHASE SUB TOTALS:	7.2	6.3	5.3					9.9	3.7	7.6	PHASE SUB TOTALS:					

TOTAL PHASE A: 17.0 | TOTAL PHASE B: 10.0 | TOTAL PHASE C: 12.9

TOTAL CONNECTED KVA: 39.9 KVA

TOTAL PHASE A LINE CURRENT = 141.56 | TOTAL PHASE B LINE CURRENT = 83.27 | TOTAL PHASE C LINE CURRENT = 107.42

Panel P2-G

BUSS: 100 | MAIN: 100 | VOLTAGE / PHASE: 208 120 | MOUNTING: SURFACE | SERVICE ENTRY: BOTTOM

FEEDER SIZE, SEE RISER | SHORT CIRCUIT CAPACITY: SERVICE ENTRANCE RATED

CIRCUIT #	WIRE SIZE	GND SIZE	# WIRES	COND SIZE "	CIRCUIT DESCRIPTION	LOAD KVA / POLE # A	# B	# C	BREAKER TRIP	BREAKER POLE	BREAKER POLE	BREAKER TRIP	LOAD KVA / POLE #A	#B	#C	CIRCUIT DESCRIPTION	COND SIZE "	# WIRES	GND SIZE	WIRE SIZE	CIRCUIT #
1	12	12	3	0.5	RECEPTICALS	0.8			20	1	1	20	0.8			RECEPTICALS	0.5	3	12	12	2
3	12	12	3	0.5	LIGHTING		1.5		20	1	1	20		1.2		LIGHTING	0.5	3	12	12	4
5	12	12	3	0.5	REST ROOM RECEPTICALS			0.5	20	1	1	20			1.0	EXTERIOR LIGHTING	0.5	3	12	12	6
7	12	12	3	0.5	SIGN CIRCUIT	1.6			20	1	2	30	2.5			WATER HEATER	0.8	3	10	10	8
9					SPARE									2.5		"					10
11					SPARE						2	60			6.6	AIR HANDLER	1.0	3	8	4	12
13					SPARE						"	"	6.6			"					14
15	6	10	4	1.0	HVAC COMPRESSOR		4.8		50HRAC	3						SPARE					16
17					"			4.8	"	"						SPARE					18
19					"	4.8			"	"						SPARE					20
					PHASE SUB TOTALS:	7.2	6.3	5.3					9.9	3.7	7.6	PHASE SUB TOTALS:					

TOTAL PHASE A: 17.0 | TOTAL PHASE B: 10.0 | TOTAL PHASE C: 12.9

TOTAL CONNECTED KVA: 39.9 KVA

TOTAL PHASE A LINE CURRENT = 141.56 | TOTAL PHASE B LINE CURRENT = 83.27 | TOTAL PHASE C LINE CURRENT = 107.42

ELECTRICAL SYMBOL TABLE

SYMBOL	DESCRIPTION	MISCELLANEOUS
	NEMA 3-R SERVICE DISCONNECT. SIZE AND CIRCUIT SHOWN. REFER TO PANEL SCHEDULES FOR WIRE AND CONDUIT SIZES. HVAC UNITS TO BE CONNECTED TO AN HACR RATED CIRCUIT BREAKER.	
	NEMA 1 SERVICE DISCONNECT. SIZE AND CIRCUIT SHOWN. REFER TO PANEL SCHEDULES FOR WIRE AND CONDUIT SIZES. HVAC UNITS TO BE CONNECTED TO AN HACR RATED CIRCUIT BREAKER.	
	20 AMP, 120V, DUPLEX OUTLET, FLUSH MOUNTED @ 18" (A.F.F.).	
	20 AMP, 120V, DUPLEX GFI OUTLET, FLUSH MOUNTED @ 18" ABOVE FINISHED FLOOR (A.F.F.) OR 6" ABOVE COUNTER TOP (A.C.T).	
MR	20 AMP, 120V, GFI DUPLEX OUTLET FLUSH MOUNTED WITH A MOISTURE RESISTANT MARKED (MR) COVER. MOUNTED @ 18" (A.F.F).	

GWINNETT COUNTY

Department of Planning and Development

These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.

Sep 02, 2020

AUTHORIZED

BLD2020-04937

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE 031530 GARLAND KELLOGG HOXIT

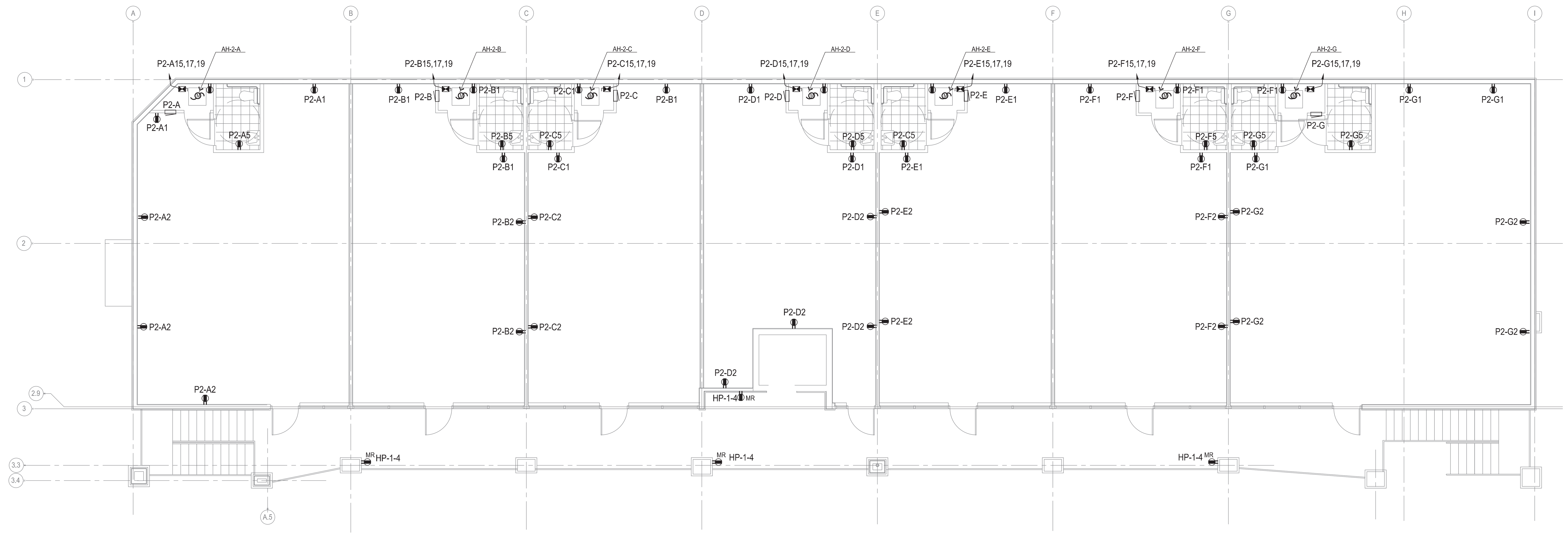
STATE OF GEORGIA CDC-INC CONSULTANTS NO. PEF004580 CERTIFICATE OF AUTHORIZATION

CONSULTING DESIGN CONSORTIUM, INC.
808 WOODSFORD DRIVE
GREENVILLE, SC 29615
(864) 968-9044
January 23, 2017

JIMMY CARTER CONV. STORE
JIMMY CARTER BLVD.
ELECTRICAL POWER

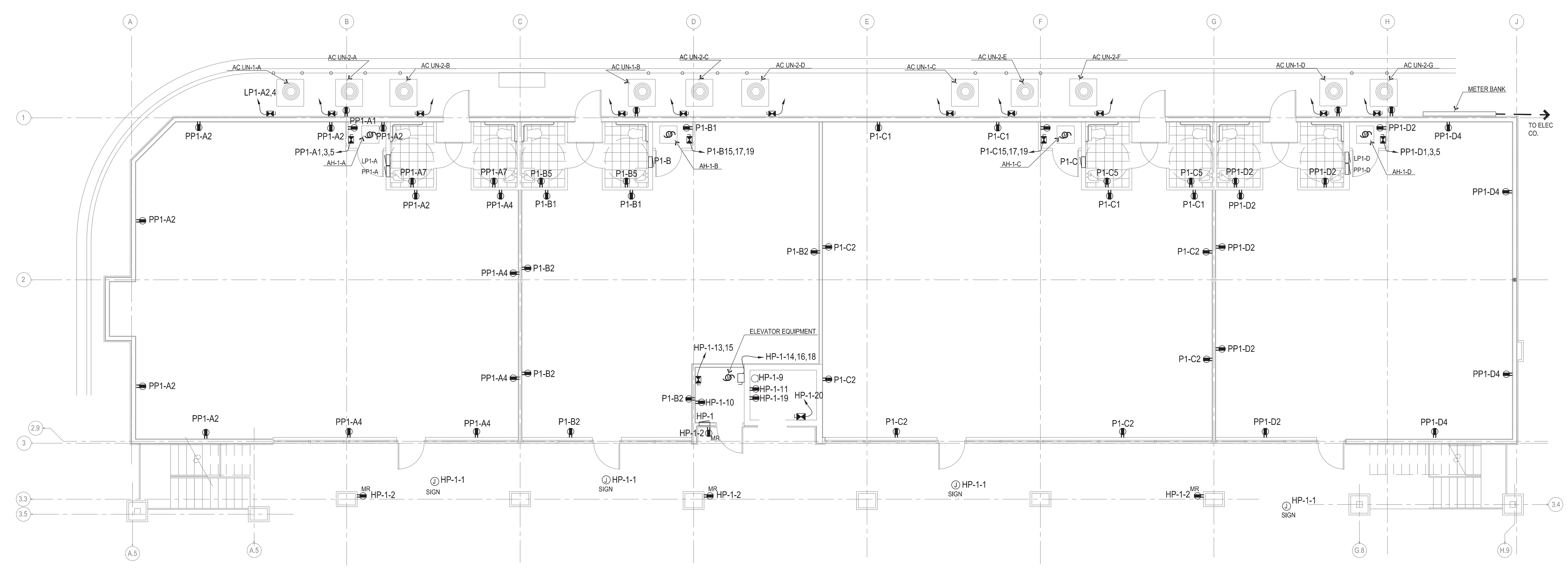
TA Design Group, Inc.
pob 81226 Chamblee, GA 30366
tadgi.com
864-553-2474

12-20-16
AS SHOWN
E-100
1525



SECOND FLOOR PLAN-ELECT. POWER

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



FIRST FLOOR PLAN-ELECT. POWER

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

GWINNETT COUNTY

Department of Planning and Development

These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.

Sep 02, 2020

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JIMMY CARTER BLVD.
ELECTRICAL POWER

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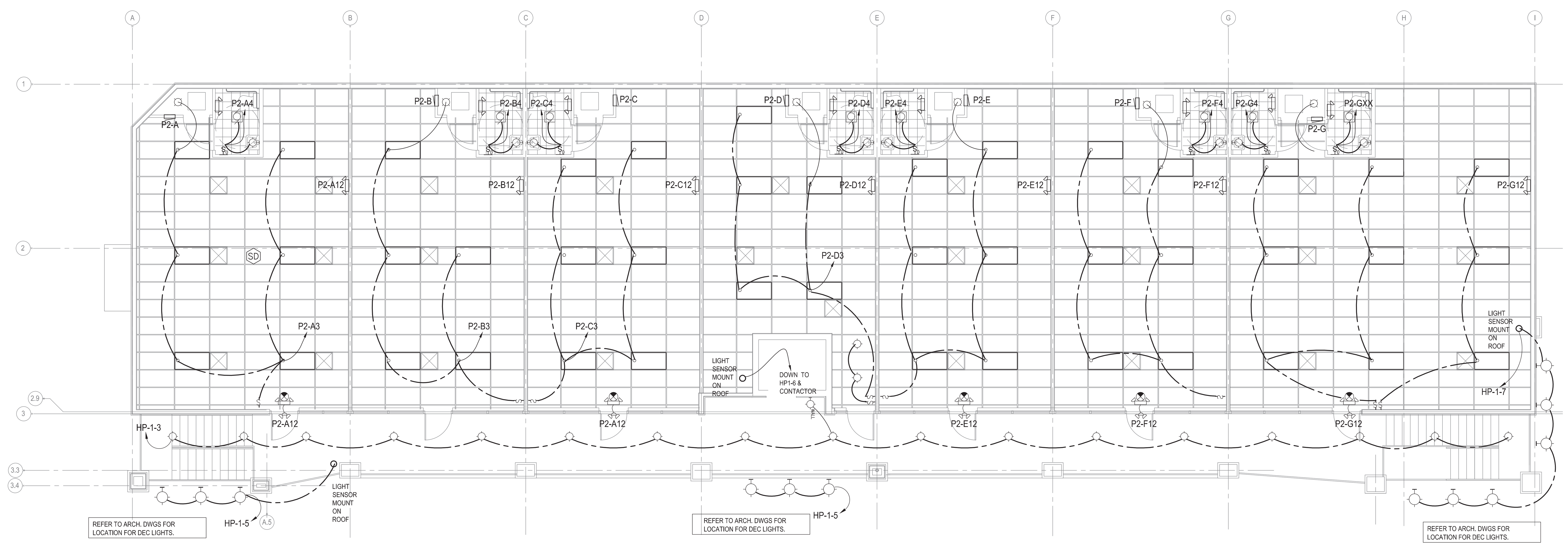
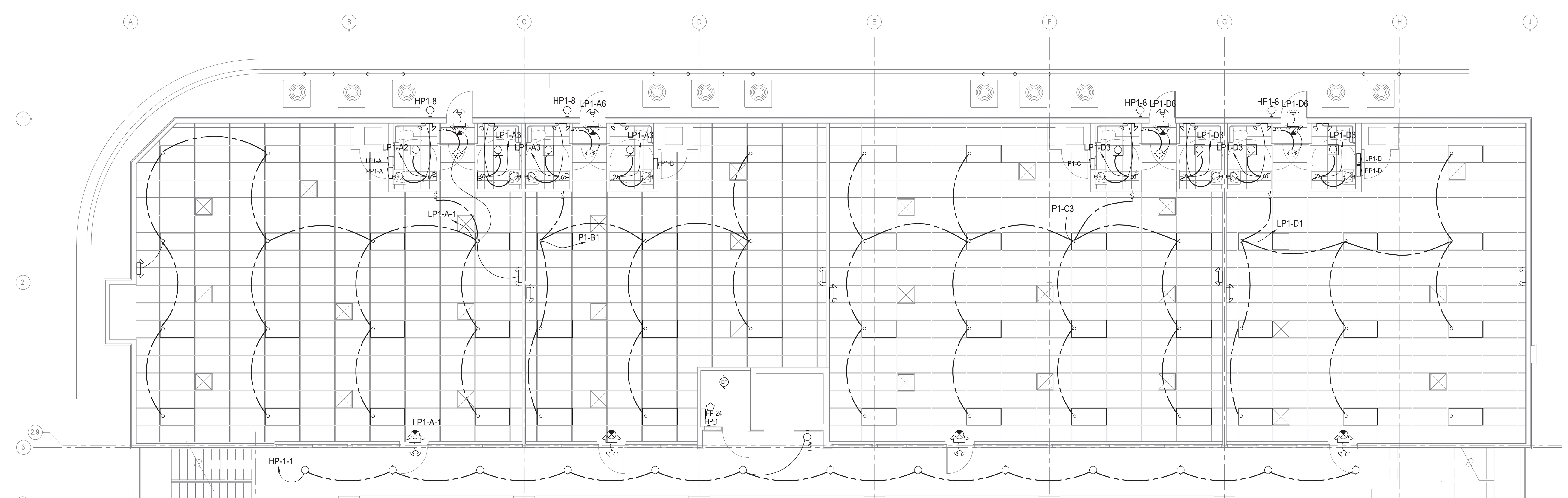
pob 81226 Chamblee, GA 30366
tadgi.com
864-553-2474

12-20-16
AS SHOWN
E-101
1525



SECOND FLOOR PLAN-ELECT. LIGHTING

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



KEYED NOTES:
1. 6 CIRCUIT LIGHTING CONTACTOR WITH 120 V COIL TO BE CONTROLLED BY A PHOTO CELL IN AN APPROPRIATE LOCATION.

FIRST FLOOR PLAN-ELECT. LIGHTING

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

GWINNETT COUNTY

Department of Planning and Development

These project documents have been reviewed by applicable County Departments and have been found to be in substantial compliance with the applicable codes and regulations.

Sep 02, 2020

AUTHORIZED

BLD2020-04937

GEORGIA REGISTERED PROFESSIONAL ENGINEER GARLAND KELLOGG

JIMMY CARTER CONV. STORE
JIMMY CARTER BLVD.
ELECTRICAL LIGHTING

TA Design Group, Inc.

January 23, 2017

E-102