LIST OF ABBREVIATIONS

AFF	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
ADJ	ADJUSTABLE	LP	LOW POINT
ALT	ALTERNATE	MFR	MANUFACTURER
ALUM	ALUMINUM	MO	MASONRY OPENING
AB	ANCHOR BOLTS	MAX	MAXIMUM
L	ANGLE	MEP	MECH / ELECT / PLUMB
ARCH	ARCHITECTURAL	MECH	MECHANICAL
@	AT	MTL	METAL
BD	BOARD	MIN	MINIMUM
BLDG	BUILDING	NIC	NOT IN CONTRACT
CAB	CABINET	NTS	NOT TO SCALE
CLG	CEILING	OC	ON CENTER
CL	CENTER LINE	OPNG	OPENING
CER	CERAMIC	OD	OUTSIDE DIAMETER
CT	CERAMIC TILE	OH	OPPOSITE HAND
COL	COLUMN	PLAS LAM	PLASTIC LAMINATE
CONC	CONCREATE	PLUMB	PLUMBING
CMU	CONCRETE MASONRY UNIT	PLYWD	PLYWOOD
CONST	CONSTRUCTION	PL	PLATE
CONT	CONTINUOUS	POL	POLISHED
CJ	CONTROL JOINT	RAD / R	RADIUS
DET	DETAIL	RECEPT	RECEPTACLE
DIA	DIAMETER	REINF	REINFORCING
DIM	DIMENSION	REQ'D	REQUIRED
DR	DOOR	R	RISER/RADIUS
DBL	DOUBLE	RD	ROOF DRAIN
DS	DOWNSPOUT	RM	ROOM
EA	EACH	RO	ROUGH OPENING
EW	EACH WAY	SECT	SECTION
ELEC	ELECTRIC	SHT	SHEET
EWC	ELECTRIC WATER COOLER	SIM	SIMILAR
EL	ELEVATOR	SPEC	SPECIFICATION
ELEV	ELEVATION		SQUARE
EQU	EQUAL	SS	STAINLESS STEEL
EXP	EXPANSION	STD	STANDARD
EJ	EXPANSION JOINT	STL	STEEL
EXT	EXTERIOR	STRUCT	STRUCTURAL
FIN	FINISH	SOB	TOP OF BEAM
FF	FINISH FLOOR	TOC	TOP OF CURB
FEC	FIRE EXTINGUISHER CABINET	TOJ	TOP OF JOIST
FHC	FIRE HOSE CABINET	TOS	TOP OF STEEL
FH	FIRE HYDRANT	TOP	TOP OF PLATE
FLR	FLOOR	TOW	TOP OF WALL
FD	FLOOR DRAIN	T	TREAD
GALV	GALVANIZED	TYP	TYPICAL
GA	GAUGE	UC	UNDER COUNTER / CABINET
GWB	GYPSUM WALL BOARD	UNO	UNLESS NOTED OTHERWISE
HR	HOUR	VERT	VERTICAL
HT	HEIGHT	VEST	VESTIBULE
HM	HOLLOW METAL	VWC	VERTICAL WALL COVERING
HOR / HORIZ	HORIZONTAL	WC	WATER CLOSET
ID	INTERIOR DIAMETER	WP	WATER PROOF
INSUL	INSULATION	WF	WIDE FLANGE
INT	INTERIOR	W/	WITH / WITHOUT
LAM	LAMINATE/LAMINATED	WD	WOOD
LAV	LAVATORY	WWF	WELDED WIRE FABRIC
LLH	LONG LEG HORIZONTAL		

LIST OF DRAWINGS

SHEET NUMBER	TITLE
	COVER
C1.1	SITE PLAN - EXISTING
C1.2	SITE PLAN - DEMOLITION
C1.3	SITE PLAN
S-1	DETAILS AND NOTES
S-2	FOOTING AND FOUNDATION PLAN
S-3	FRAMING PLAN
S-4	FRAMING PLAN
S-5	DETAILS
S-6	DETAILS
AE1.1	EXISTING FLOOR PLANS
AE1.2	EXISTING FLOOR PLANS
LS1.1	LIFE SAFETY PLAN
LS1.2	LIFE SAFETY PLAN
LS1.3	LIFE SAFETY DETAILS
ADA.1	ADA DETAILS
ADA.2	ADA DETAILS
ADA.3	ADA DETAILS
A1.0	RENOVATION SCOPE OF WORK
A1.1	FIRST FLOOR PLAN
A1.2	SECOND FLOOR PLAN
A1.3	LARGE SCALE ADDITION FIRST FLOOR PLAN
A1.4	LARGE SCALE ADDITION SECOND FLOOR PLAN
A1.5	FIRST FLOOR DIMENSION PLAN
A1.6	SECOND FLOOR DIMENSION PLAN
A1.7	LARGE SCALE AREA A
A1.8	LARGE SCALE AREA B
A1.9	LARGE SCALE AREA C
A1.10	LARGE SCALE UNIT PLANS
A1.11	LARGE SCALE UNIT PLANS
A1.12	LARGE SCALE UNIT PLANS
A1.13	LARGE SCALE UNIT PLANS
A1.14	FIRST FLOOR REFLECTED CEILING PLAN
A1.15	SECOND FLOOR REFLECTED CEILING PLAN
A1.16	AREA A REFLECTED CEILING PLAN
A1.17	AREA B REFLECTED CEILING PLAN
A1.18	AREA C REFLECTED CEILING PLAN
A1.19	ROOF PLAN
A2.1	EXTERIOR ELEVATIONS
A2.2	EXTERIOR ELEVATIONS
A2.3	EXTERIOR ELEVATIONS
A3.1	BUILDING SECTIONS
A3.2	BUILDING SECTIONS
A3.3	BUILDING SECTIONS
A3.4	WALL SECTIONS
A4.1	INTERIOR ELEVATIONS AND CASEWORK DETAILS
A4.2	SECTIONS AND DETAILS
A5.1	DOOR SCHEDULE
A5.2	FINISH SCHEDULE
M0.1	LEGENDS AND NOTES
M0.2	HVAC SCHEDULES
M1.1	MECHANICAL FLOOR PLAN
M1.2	HVAC DETAILS
P0.1	PLUMBING LEGEND AND SCHEDULES
P1.1	DRAINAGE, WASTE AND VENT DIAGRAM
P1.2	DRAINAGE, WASTE AND VENT DIAGRAM
P1.3	DOMESTIC WATER DISTRIBUTION DIAGRAM
P1.4	DOMESTIC WATER DISTRIBUTION DIAGRAM
E1.1	ADDITION LIGHTING PLAN
E1.2	ADDITION LIGHTING PLAN
E1.3	AREA A LIGHTING PLAN
E1.4	AREA B LIGHTING PLAN
E1.5	AREA C LIGHTING PLAN
E1.6	AREA A POWER PLAN
E1.7	AREA B POWER PLAN
E1.8	AREA C POWER PLAN
E1.9	EQUIPMENT AND FIRE ALARM PLAN
E1.10	EQUIPMENT AND FIRE ALARM PLAN
E4.1	ELECTRICAL NOTES
E5.1	ELECTRIC LEGENDS AND SCHEDULES

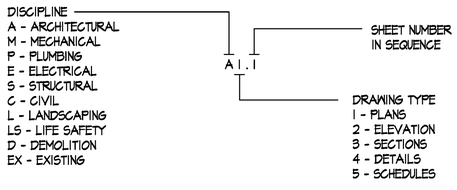
PROJECT INFORMATION:

USE - SKILLED NURSING FACILITY
USE GROUP - I2
CONSTRUCTION TYPE - 2A
COMPLETE SPRINKLER COVERAGE
TOTAL FIRE ALARM SYSTEM
ALL MEANS OF EGRESS TO REMAIN

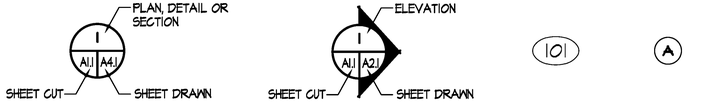
APPLICABLE CODES:

VIRGINIA UNIFORM STATEWIDE BUILDING CODE - 2012 EDITION
GUIDELINES FOR DESIGN AND CONSTRUCTION OF HEALTH CARE FACILITIES - 2010 EDITION
INTERNATIONAL BUILDING CODE - 2012 EDITION
INTERNATIONAL PLUMBING CODE - 2012 EDITION
INTERNATIONAL MECHANICAL CODE - 2012 EDITION
NATIONAL ELECTRICAL CODE - 2012 EDITION
NFPA 101 - LIFE SAFETY CODE - 2012 EDITION
INTERNATIONAL ENERGY CONSERVATION CODE - 2012 EDITION
NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLERS - 2010 EDITION
NFPA 72 - NATIONAL FIRE ALARM CODE - 2010 EDITION
ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES ICC A117.1 - 2009 EDITION

SHEET DESIGNATIONS



SYMBOLS



THE DRAWINGS, THE PROJECT MANUAL, ANY ADDENDA, CHANGE ORDERS AND APPROVED SHOP DRAWINGS ARE PART OF THESE DOCUMENTS. ALL ATTACHED DOCUMENTS MUST BEAR THE SIGNED IDENTIFICATION OF THE ARCHITECT. NO OTHER ATTACHMENTS SHALL BE CONSIDERED PART OF THESE DOCUMENTS. THESE DOCUMENTS ARE THE PROPERTY JONES AND JONES ASSOCIATES ARCHITECTS PC AND THEY OR THE DESIGNS THEY INDICATE MAY NOT BE COPIED WITHOUT WRITTEN CONSENT OF THE ARCHITECT.

COMMONWEALTH OF VIRGINIA
RICHARD L. JONES, JR.
Lic. No. 5957
ARCHITECT
15 OCT 2018

DATE
15 OCT 2018

COMMISSION NUMBER
2751

REVISION DATE
11 MAR 2019

MERU SENIOR HEALTH AND WELLNESS CAMPUS

ALLEGHANY COUNTY, VIRGINIA

JONES & JONES ASSOCIATES / ARCHITECTS PC

6120 PETERS CREEK ROAD · ROANOKE, VIRGINIA, 24019
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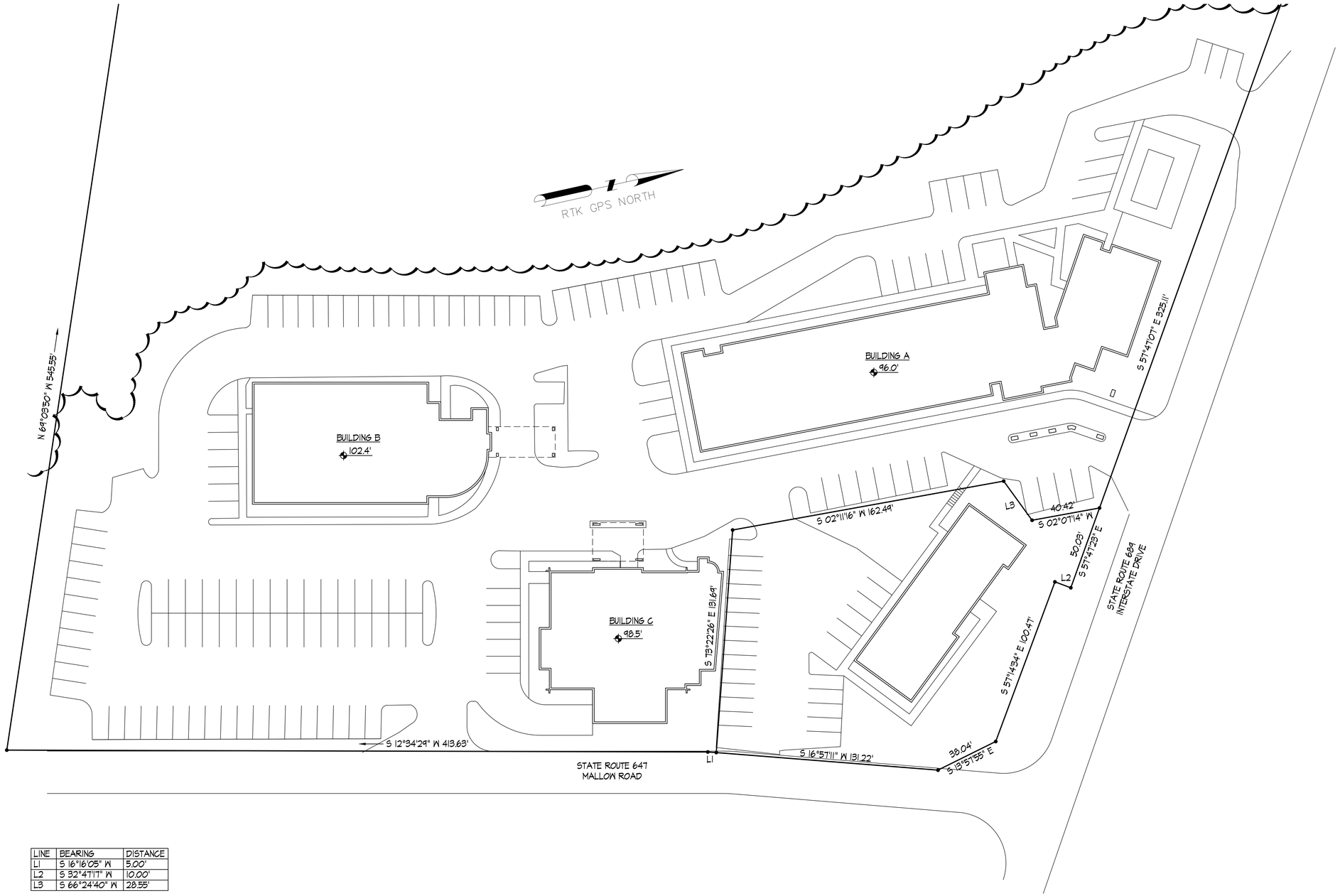

LINE	BEARING	DISTANCE
L1	S 16°16'05" W	5.00'
L2	S 32°47'17" W	10.00'
L3	S 66°24'40" W	28.55'

SITE PLAN - EXISTING

SCALE 1" = 30'-0"

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REVISION DATE
1 - 6 NOV 2018
2 - 21 DEC 2018
3 - 16 JAN 2019
4 - 4 FEB 2019
5 - 12 FEB 2019
6 - 15 FEB 2019
7 - 11 MAR 2019

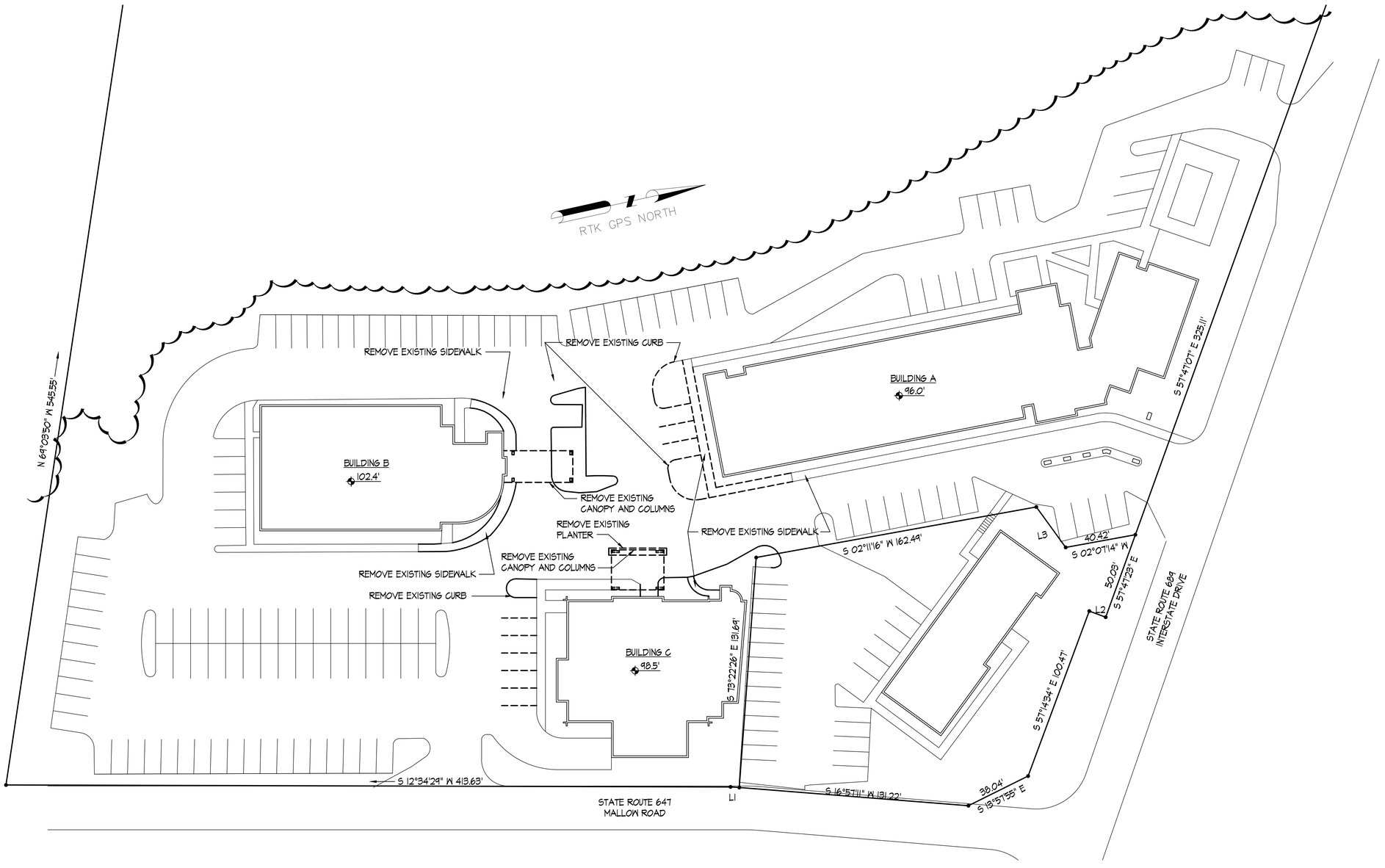
MERU SENIOR HEALTH AND WELLNESS CAMPUS

ALLEGHANY COUNTY, VIRGINIA

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2751
DATE
15 OCT 2018

C1.1

JONES & JONES ASSOCIATES / ARCHITECTS PC



LINE	BEARING	DISTANCE
L1	S 16°16'05" W	5.00'
L2	S 32°47'17" W	10.00'
L3	S 66°24'40" W	28.55'

SITE PLAN - DEMOLITION

SCALE 1" = 30'-0"

REVISION DATE
1 - 6 NOV 2018
2 - 21 DEC 2018
3 - 16 JAN 2019
4 - 4 FEB 2019
5 - 12 FEB 2019
6 - 15 FEB 2019
7 - 11 MAR 2019

MERU SENIOR HEALTH AND WELLNESS CAMPUS

ALLEGHANY COUNTY, VIRGINIA

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2151
DATE
15 OCT 2018

C1.2

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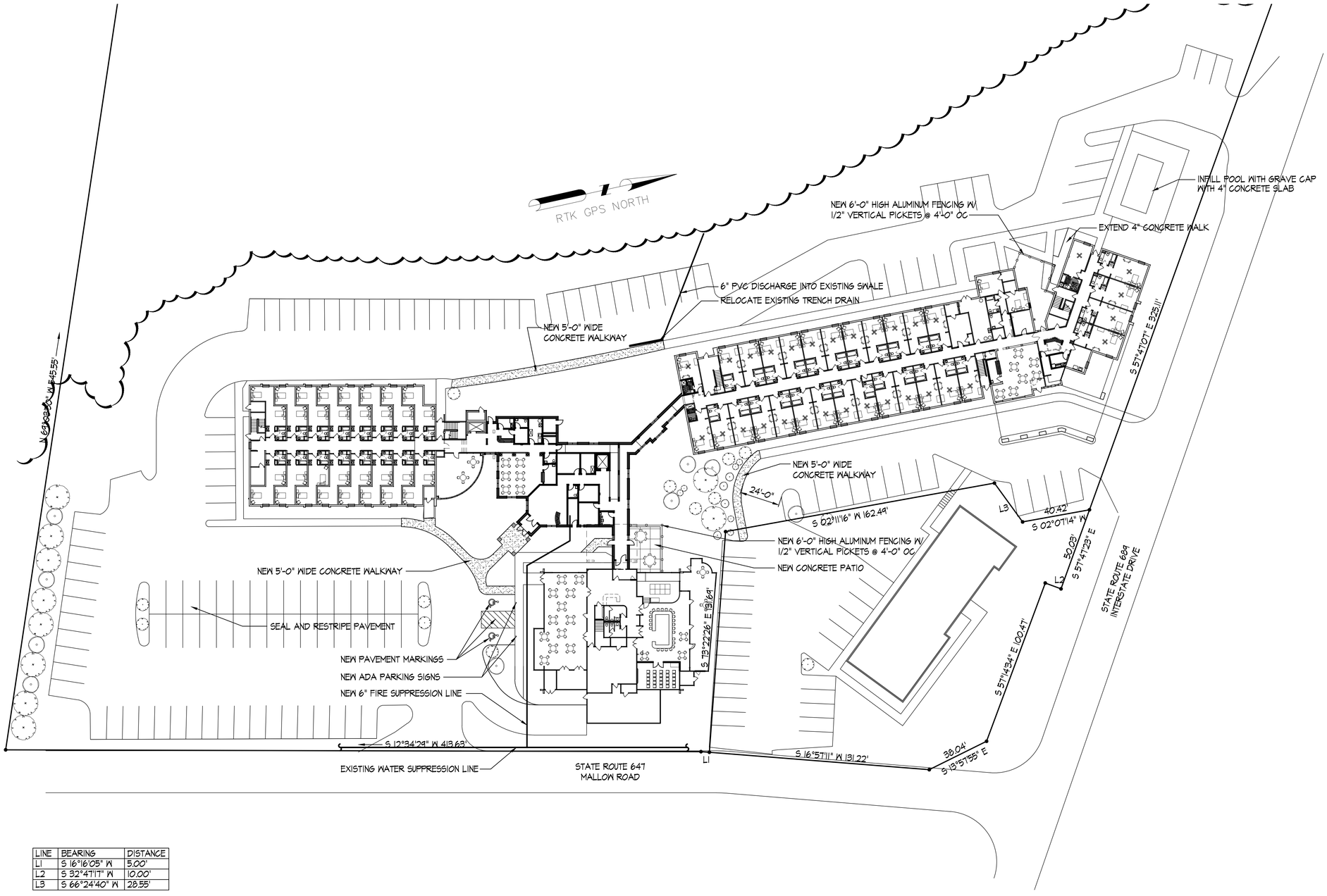


LINE	BEARING	DISTANCE
L1	S 16°16'05" W	5.00'
L2	S 32°47'17" W	10.00'
L3	S 66°24'40" W	28.55'

SITE PLAN - NEW

SCALE 1" = 30'-0"

REVISION DATE
1 - 6 NOV 2018
2 - 21 DEC 2018
3 - 16 JAN 2019
4 - 4 FEB 2019
5 - 12 FEB 2019
6 - 15 FEB 2019
7 - 11 MAR 2019

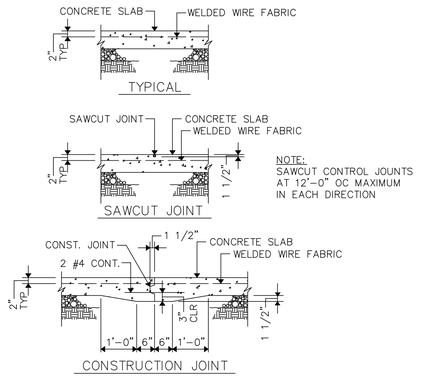
MERU SENIOR HEALTH AND WELLNESS CAMPUS

ALLEGHANY COUNTY, VIRGINIA

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2751
DATE
15 OCT 2018

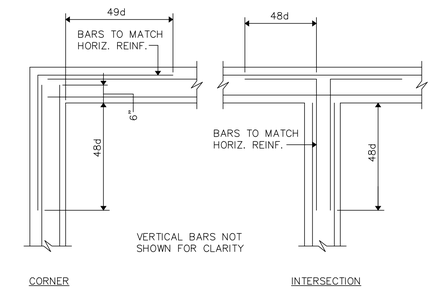
C1.3

JONES & JONES ASSOCIATES / ARCHITECTS PC



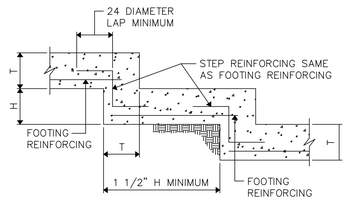
1 S-1 TYPICAL SLAB CONSTRUCTION

SCALE: N.T.S.



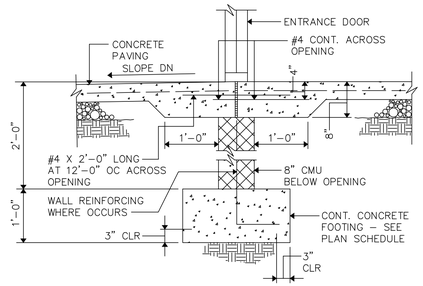
2 S-1 CORNER REINFORCING IN CONCRETE FOUNDATIONS

SCALE: N.T.S.



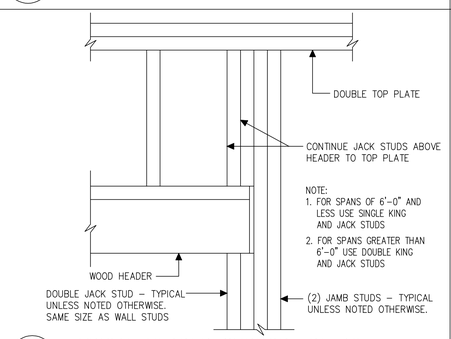
3 S-1 TYPICAL FOOTING STEP

SCALE: N.T.S.



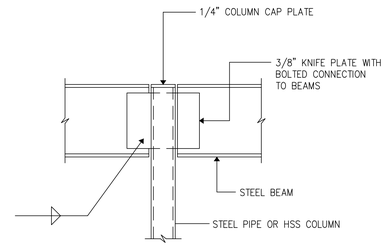
4 S-1 TYPICAL ENTRANCE SLAB DETAIL

SCALE: N.T.S.



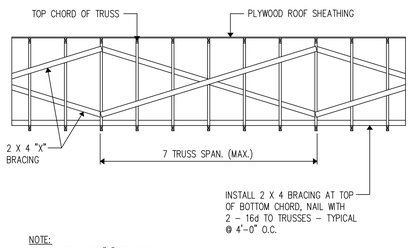
5 S-1 TYPICAL HEADER SUPPORT DETAIL

SCALE: N.T.S.



6 S-1 TYPICAL BEAM TO COLUMN CONNECTION

SCALE: N.T.S.



7 S-1 TYPICAL WOOD ROOF TRUSS BRACING

SCALE: N.T.S.

THE DESIGN AND FABRICATION SHALL MEET THE LATEST OF THE FOLLOWING SPECIFICATIONS:

1. THE NATIONAL DESIGN SPECIFICATIONS FOR STRESS GRADE LUMBER AND ITS FASTENINGS BY NFPA
2. TIMBER CONSTRUCTION MANUAL, AITC
3. DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES. TRUSS PLATE INSTITUTE

ALL MEMBERS SHALL BE CERTIFIED IN WRIGHTING BY THE FABRICATOR AS MEETING THE ABOVE REQUIREMENTS

ALL PREFABRICATED TRUSSES WHICH CANNOT BE SHIPPED AS A WHOLE AND THEREFORE MUST REQUIRE

A FIELD CONNECTION SHALL BE DESIGNED AS SUCH AND SHALL BE COMPLETLEY DETAILED ON SHOP DRAWINGS BY THE MANUFACTURER AND THE DESIGN SHALL BE CERTIFIED BY MANUFACTURERS REGISTERED ENGINEER

SHOP DRAWINGS SHALL BE PREPARED FOR EACH TRUSS AND PRESENTED TO THE CONTRACTOR FOR HIS APPROVAL PRIOR TO FABRICATION. EACH SHEET SHALL IDENTIFY THE PROJECT BY THE PROPER NAME AND ADDRESS, SIZE AND GRADE OF LUMBER, STRESS INCREASE ALLOWED, THE LOADS USED AS A "BASIS OF DESIGN", AND THE CONNECTION VALUE. ERECTION PLANS IDENTIFING THE TRUSSES SHALL BE SUBMITTED WITH THE SHOP DRAWINGS

ALL DIMENSIONS SHOWN ON THIS DRAWING SHALL BE VERIFIED THE CONTRACTOR AT THE PROJECT SITE PRIOR TO COMMENCING CONSTRUCTION OR FABRICATION OF BUILDING ELEMENTS

SCHEDULES

FOOTING SCHEDULE

MARK	SIZE	REINFORCING	REMARKS
F1	1'–0" x 2'–0" x CONT.	2 #5'S CONT	–––
F2	1'–0" x 4'–0" x 4'–0"	2 #5'S E.W.	–––

COLUMN SCHEDULE

MARK	SIZE	BASEPLATE	ANCHOR BOLTS	REMARKS
C1	HSS 4" x 4" x 5/16"	3/4" x 10" x 10"	4–3/4"ø	–––

COLUMN NOTES:
1. ANCHOR BOLTS SHALL HAVE 9" EMBEDMENT WITH STANDARD 3" HOOK
2. ALL ANCHOR BOLTS SHALL BE F1554 GRADE 36 KSI
3. ALL WOOD STUD COLUMNS SHALL BE NAILED TOGETHER WITH 12d NAILS AT 6" OC
4. FILL CMU SOLID WITH GROUT FULL HEIGHT
5. FILL CMU SOLID WITH GROUT BELOW COLUMN

HEADER SCHEDULE

MARK	TYPE	SIZE	REMARKS
H1		(2) 2 x 8'S – SYP NO. 1	–––
H2		(2) 2 x 10'S – SYP NO. 1	–––
H3		(2) 1 3/4" x 14" LVL	–––

HEADER NOTES:
1. TYPICAL BUILT–UP HEADER CONSTRUCTION SHALL BE MULTIPLE WOOD MEMBERS AS NOTED WITH PLYWOOD SPACERS AS REQUIRED TO MATCH STUD WALL WIDTH
2. PROVIDE 2 – 2x WOOD JACK STUDS AND (2) KING STUDS TO SUPPORT THE HEADER AT EACH END UNLESS OTHERWISE NOTED
3. ALL HEADERS SHALL CONFORM TO ARCHITECTURAL HEAD HEIGHT
4. LVL = 2800 PSI, E = 2,000.000 PSI

PIER SCHEDULE

MARK	SIZE	REINFORCING	REMARKS
P1	16" x 16" CONC.	(4) #5'S VERTICAL #3 TIES AT 6" O.C.	

PIER NOTES:
1. DOWEL ALL PIER REINFORCING TO FOUNDATION – TYPICAL

GENERAL STRUCTURAL NOTES

CODE: 2012 VIRGINIA UNIFORM STATEWIDE BUILDING CODE

DESIGN LOADS:

RISK CATEGORY II

ROOF LIVE LOAD = 25 PSF

GROUND SNOW LOAD = 25 PSF
IMPORTANCE FACTOR = 1.0
EXPOSURE FACTOR = 1.0
THERMAL FACTOR = 1.0
Pf = 17.5 PSI

WIND LOADS:
BASIC WIND SPEED = 115 MPH (3 SECOND GUST)
WIND EXPOSURE = B
COMPONENTS AND CLADDING PRESSURE = 35 PSF
Kd = 0.85
Kzt = 1.0
Gcpi = +0.18 (ENCLOSED)
qz = 33 PSF

SEISMIC LOADS:
SEISMIC IMPORTANCE FACTOR = 1.0
Ss = 0.192g
Si = 0.064g
SITE CLASSIFICATION "D"
Sds = 0.205g
Sdi = 0.102g
SEISMIC DESIGN CATEGORY "B"
LIGHT FRAMED SHEAR WALLS WITH WOOD SHEAR WALL PANELS
EQUIVALANT LATERAL FORCE PROCEDURE
R = 2.0
Cs = 0.087

SHEETS S–1 THRU S–4 ARE STRUCTURAL DESIGN DRAWINGS ONLY (REQUIRED FOR THE FOUNDATION PLAN, ROOF FRAMING PLAN, SECTIONS, DETAILS AND SCHEDULES). ANY REFERENCE TO ARCHITECTURAL MATERIALS, SYSTEMS OR CONCEPTS IS FOR CLARITY ONLY.

ALL FILL AND UNSUITABLE FOUNDATION MATERIAL SHALL BE REMOVED AND FOOTINGS SHALL REST ON UNDISTURBED SOIL OR ENGINEERED FILL AS DIRECTED BY THE GEOTECHNICAL ENGINEER

FOOTINGS ARE DESIGNED FOR A MINIMUM ASSUMED SOIL BEARING CAPACITY OF 1500 PSF

ALL EXTERIOR CONCRETE EXPOSED TO WEATHER SHALL BE 4000 PSI, AIR–ENTRAINE. ALL OTHER CONCRETE SHALL BE 3000 PSI. ALL MATERIALS AND PROCESS TO THIS END SHALL CONFORM IN GENERAL TO ACI RECOMMENDED PRACTICE FOR THE DESIGN OF CONCRETE MIXES. (ACI–613 LAST REVISED) (ACI–613 LAST REVISED)

PROVIDE 3/4" CHAMPER ON EXPOSED CONCRETE EDGES

UNLESS NOTED OTHERWISE ALL FLOOR SLABS ON GRADE SHALL BE 4" THICK AND SHALL BE REINFORCED WITH ONE LAYER OF 6 X 6 – W1.4 X W1.4 WWF OVER 4" COMPACTED STONE FILL OVER VAPOR BARRIER

UNLESS OTHERWISE NOTED DEPRESS ALL FLOOR SLABS AS REQUIRED FOR FLOOR FINISHES. SEE ARCHITECTURAL DRAWINGS

CONTRACTOR SHALL PLACE 1/2" ASPHALT IMPREGNATED FIBER BOARD IN JOINTS OF CONCRETE SLAB ON GRADE AGAINST VERTICAL SURFACES

STEEL REINFORCING SHALL BE BILLETT STEEL ASTM A–615, GRADE 60

MESH SHALL BE WELDED WIRE FABRIC ASTM– A–185

ROUND STEEL PIPE SHALL CONFORM TO THE REQUIREMENTS OF ASTM A–501. SQUARE AND RECTANGULAR STEEL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A–505. ALL WIDE FLANGE BEAMS AND COLUMNS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A–36. ALL STEEL SHALL RECEIVE ONE COAT OF SHOP PAINT UNLESS NOTED OTHERWISE

CUT HOLES, COPINGS, ETC. IN STRUCTURAL STEEL MEMBERS REQUIRED BY WORK OF OTHER TRADES SHALL BE MADE IN THE SHOP AND SHALL BE SHOWN ON THE SHOP DRAWINGS. BURNING OF HOLES OR CUTS IN THE FIELD WILL NOT BE PERMITTED WITHOUT SPECIFIC APPROVAL OF THE ENGINEER

FOR OPENINGS IN THE ROOF, SEE ARCHITECTURAL AND MECHANICAL DRAWINGS

UNLESS NOTED OTHERWISE ALL BEAM SHEAR CONNECTIONS SHALL BE DESIGNED FOR ONE HALF THE ALLOWABLE UNIFORMLY DISTRIBUTED LOADING IN ACCORDANCE WITH THE UNIFORM LOAD CONSTRAINTS AS TABULATED IN THE AISC MANUAL (FOURTEENTH EDITION) FOR THE FOR THE INDICATED SPAN PLUS 2 KIPS

ALL BOLTS SHALL BE 3/4" DIAMETER ASTM A–325 TYPE N UNLESS OTHERWISE SHOWN OR NOTED

TRUSS BRACING SHALL CONFORM TO THE REQUIRENENTS OF STANDARDS FOR DESIGN OF STRUCTURAL TIMBER AND TRUSS PLATE INSTITUTE

WOOD ROOF TRUSS NOTES:
TOP CHORD DL = 10 PSF
BOTTOM CHORD DL = 10 PSF
TOP CHORD LL = 30 PSF
BOTTOM CHORD LL 0 PSF

LIMIT LIVE LOAD DEFLECTION L/360 FOR ROOF TRUSS

ALL EXTERIOR WALLS SHALL BE 2x6 SYP. NO. 1 SPACED AT 1'–4" OC

PROVIDE HORIZONTAL BRIDGING / BLOCKING IN ALL STRUCTURAL STUDS AT 4'–0" OC

ALL WOOD STUDS COLUMNS SHALL BE NAILED TOGETHER WITH 12d NAILS AT 6" OC

GROUT FILL FOR CMU BLOCK = 2500 PSI

F'm FOR CMU = 2100 PSI (MINIMUN)

REVISION DATE
1 - 12 FEB 2019
2 - 11 MAR 2019
3

MERU SENIOR HEALTH AND WELLNESS CAMPUS

ALLEGHANY COUNTY, VIRGINIA

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2751
DATE
21 AUG 2018

S-1

JONES & JONES ASSOCIATES / ARCHITECTS PC

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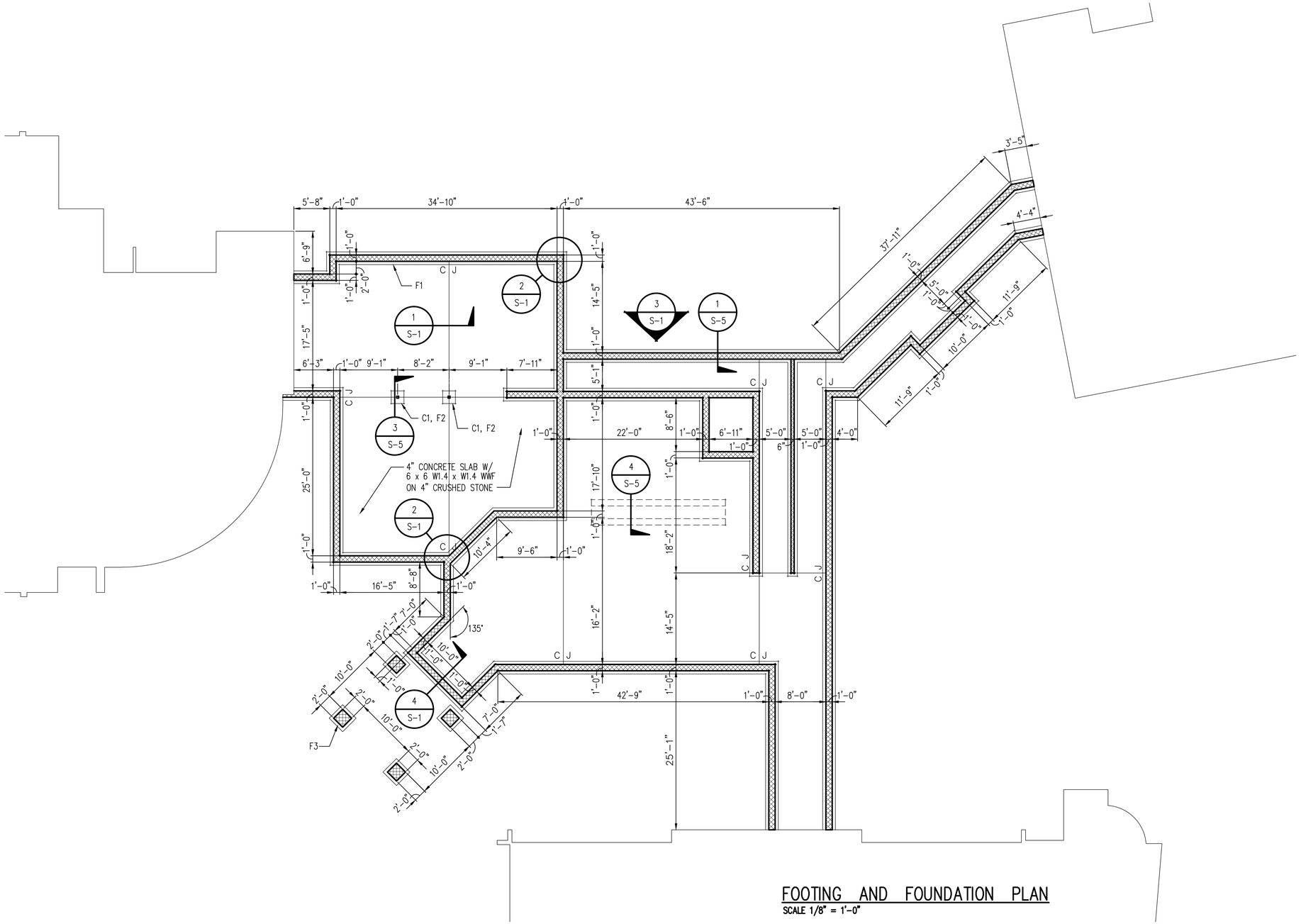

FOOTING AND FOUNDATION PLAN

SCALE 1/8" = 1'-0"

1. SEE SHEET S-1 FOR GENERAL STRUCTURAL NOTES. SCHEDULES AND TYPICAL DETAILS
2. PROVIDE 4" CONCRETE SLAB ON GRADE REINFORCED WITH ONE LAYER OF 6 X 6 – W1.4 X W1.4 W.W.F. OVER VAPOR BARRIER OVER 4" GRANULAR FILL. TYPICAL OVER ENTIRE FLOOR UNLESS NOTED OTHERWISE
3. ALL EXTERIOR AND INTERIOR LOAD BEARING WOOD STUDS SHALL BE 2 X 4 SYP NO. 1 SPACED AT 1'-4" OC MAXIMUM
4. FINISH FLOOR ELEVATION SHALL BE 0.00 FEET UNLESS NOTED OTHERWISE
5. FOOTING STEP – SEE TYPICAL DETAIL 3/S-1. GENERAL CONTRACTOR TO COORDINATE TOP OF FOOTING ELEVATION AND FINISH GRADES
6. GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN WITH ARCHITECTURAL DRAWINGS. ARCHITECTURAL PLANS SHALL GOVERN IF THERE ARE DISCREPANCIES
7. PROVIDE 4" WIDE X 12 GAUGE STRAP CROSS BRACING FULL HEIGHT OF WALL. USE (2) 8d NAILS AT EACH STUD. PROVIDE (3) 2 X 4 STUD COLUMN AND SIMPSON HD3B AT EACH END OF BRACED WALL
8. THICKENED SLAB – SEE SECTION 2/S-8
9. TOP OF ALL EXTERIOR FOOTINGS SHALL BE (–2'-0") BELOW FINISH FLOOR ELEVATION 0'-0"
10. SHEAR WALL SHALL SHEATH EXTERIOR FACE OF 2 X 4 STUD WITH 1/2" PLYWOOD FULL HEIGHT AND FULL LEINGTH OF WALL. USE 8d NAILS AT 3" OC AND 4" OC IN THE FIELD. BLOCK ALL UNSUPPORTED PLYWOOD EDGES. PROVIDE (3) 2 X 4 STUDS AND SIMPSON HD3B AT EACH END OF SHEAR WALL

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MERU SENIOR HEALTH AND WELLNESS CAMPUS

ALLEGHANY COUNTY, VIRGINIA

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
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DATE
21 AUG 2018

S-2

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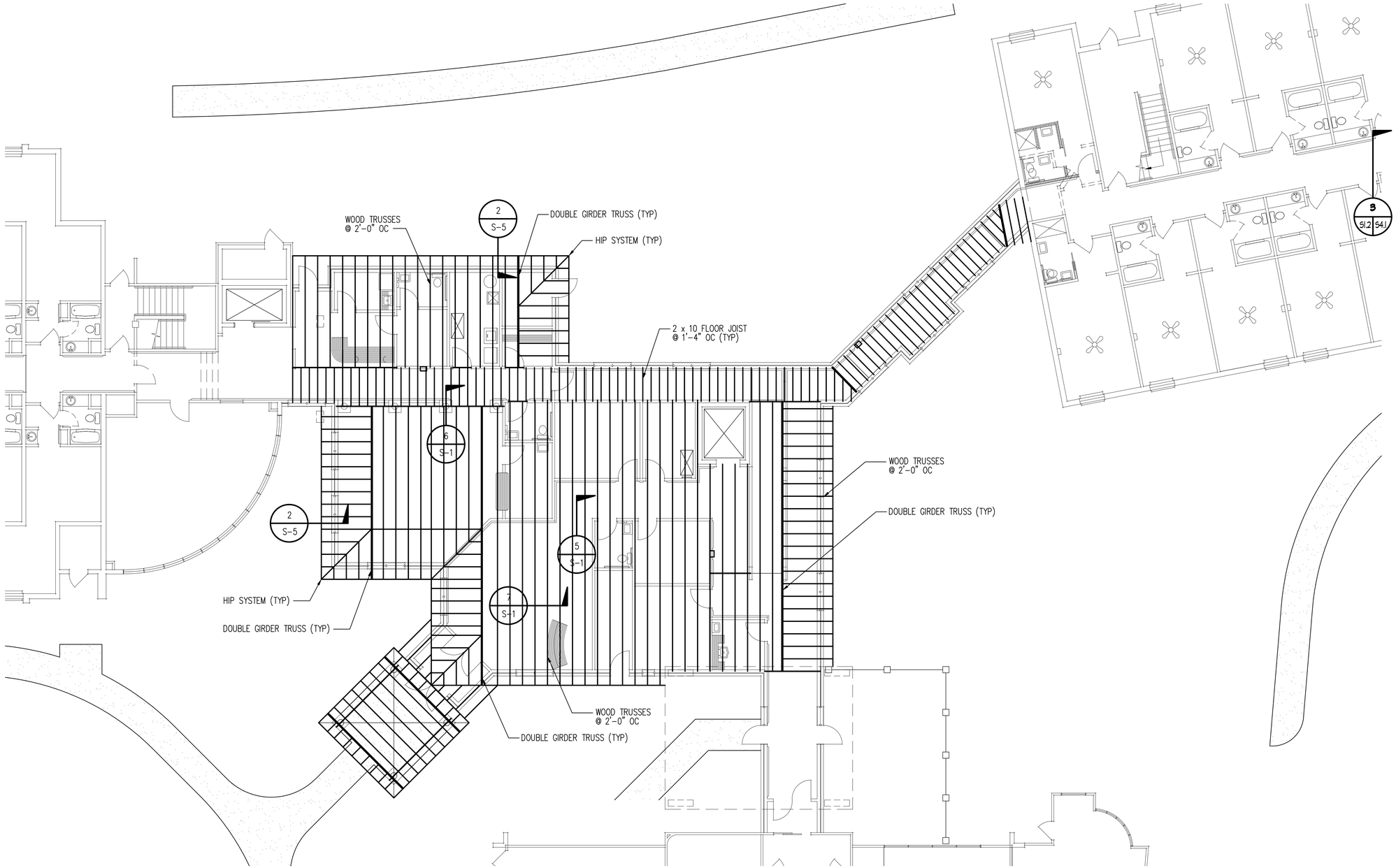

FIRST FLOOR ROOF FRAMING PLAN
SECOND FLOOR FRAMING PLAN

SCALE 1/8" = 1'-0"

1. SEE SHEET S-1 FOR GENERAL STRUCTURAL NOTES, SCHEDULES AND TYPICAL DETAILS
2. TYPICAL ROOF FRAMING SHALL BE 5/8" PLYWOOD SHEATHING SUPPORTED BY PRE-ENGINEERED WOOD ROOF TRUSSES SPACED AT 2'-0" O.C. MAXIMUN. PROVIDE PLYWOOD CLIPS AT ALL UNSUPPORTED PLYWOOD EDGES
3. ROOF OVERBUILD - CONTINUE PLYWOOD SHEATHING BENEATH ROOF OVERBUILD
4. ROOF TRUSS BEARING --- FEET ABOVE RERERENCED ELEVATION OF 0'-0"
5. GENERAL CONTRACTOR SHALL COORDINATE SIZE, WEIGHT AND LOCATION OF ALL MECHANICAL UNITS WITH TRUSS MANUFACTURER FOR PROPER TRUSS DESIGN

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S-3

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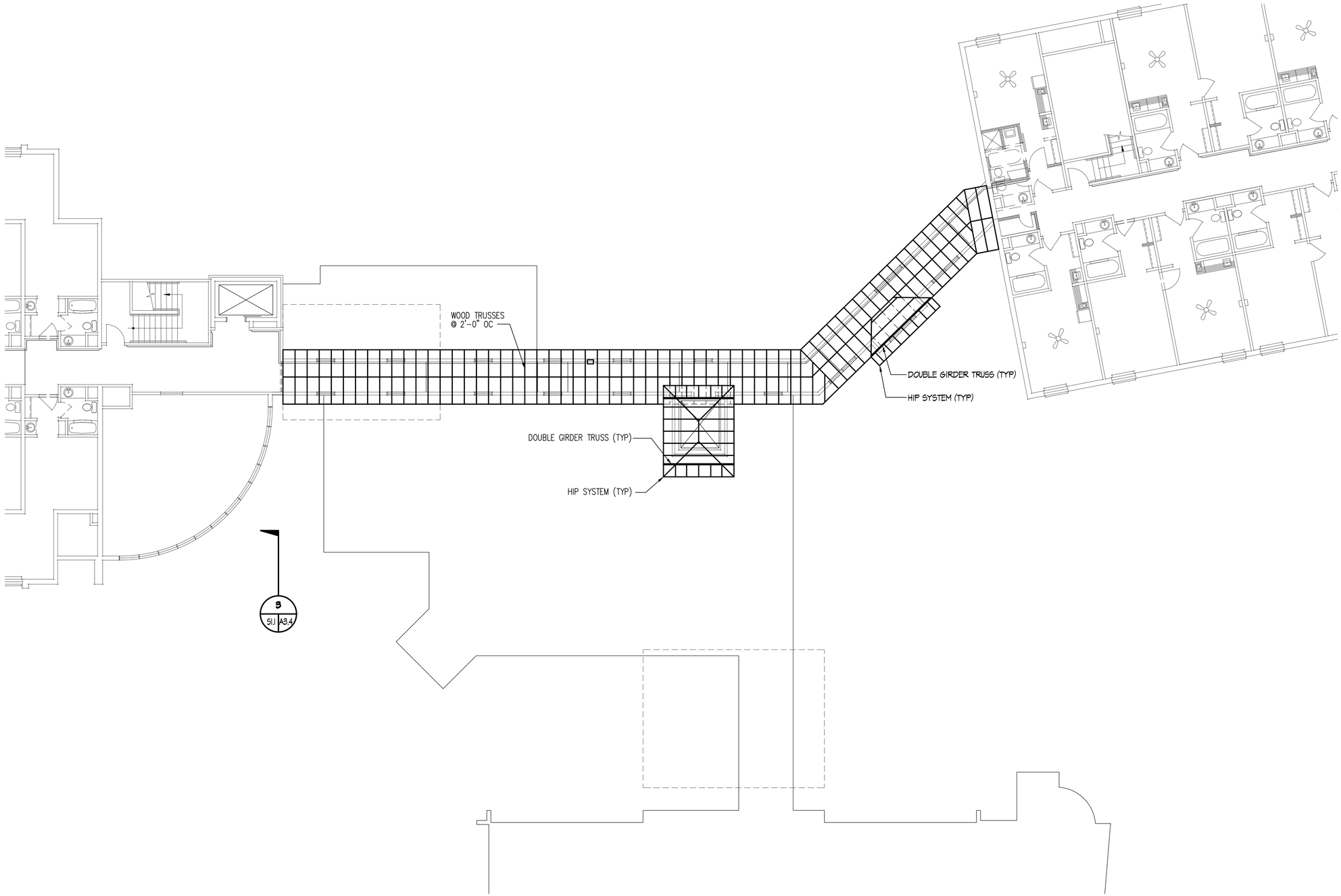

SECOND FLOOR ROOF FRAMING PLAN

SCALE 1/8" = 1'-0"

1. SEE SHEET S-1 FOR GENERAL STRUCTURAL NOTES, SCHEDULES AND TYPICAL DETAILS
2. TYPICAL ROOF FRAMING SHALL BE 5/8" PLYWOOD SHEATHING SUPPORTED BY PRE-ENGINEERED WOOD ROOF TRUSSES SPACED AT 2'-0" O.C. MAXIMUN. PROVIDE PLYWOOD CLIPS AT ALL UNSUPPORTED PLYWOOD EDGES
3. ROOF OVERBUILD - CONTINUE PLYWOOD SHEATHING BENEATH ROOF OVERBUILD
4. ROOF TRUSS BEARING --- FEET ABOVE RERERENCED ELEVATION OF 0'-0"
5. GENERAL CONTRACTOR SHALL COORDINATE SIZE, WEIGHT AND LOCATION OF ALL MECHANICAL UNITS WITH TRUSS MANUFACTURER FOR PROPER TRUSS DESIGN

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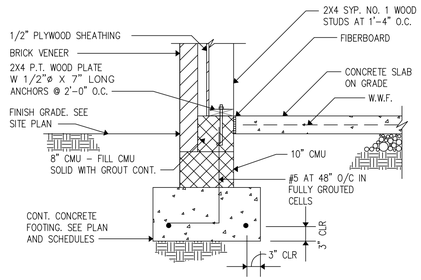
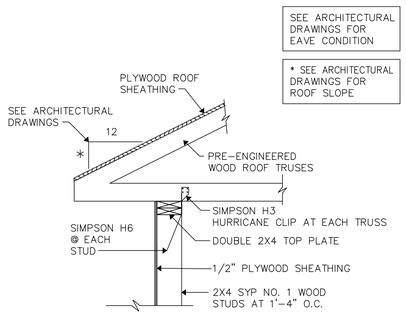


1 S-5 SECTION

SCALE: N.T.S.



2 S-5 SECTION

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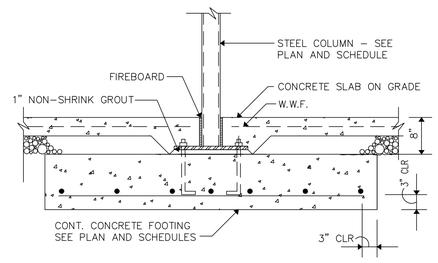

3 S-5 SECTION

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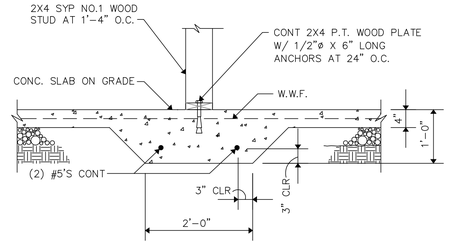

4 S-5 SECTION

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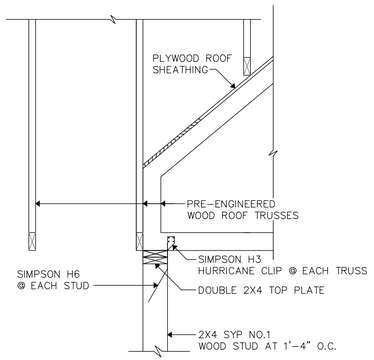

5 S-5 SECTION

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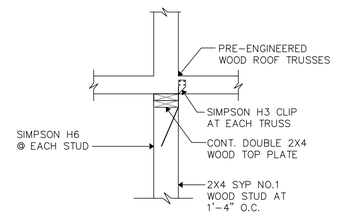

6 S-5 SECTION

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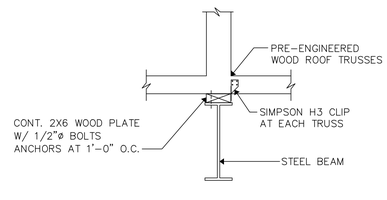

7 S-5 SECTION

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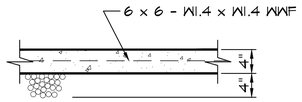
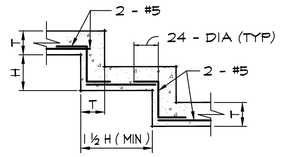
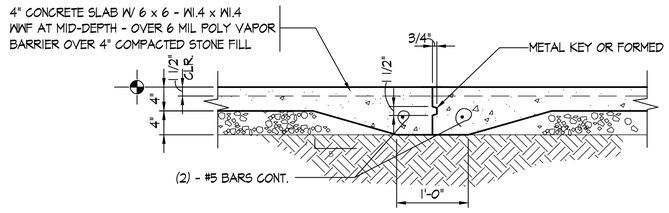


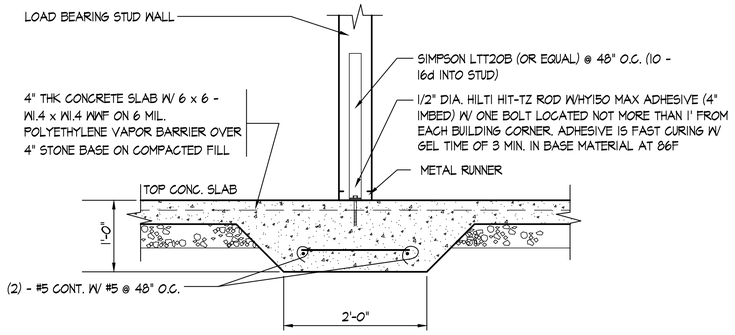
TYPICAL SLAB
SCALE 1" = 1'-0"



TYPICAL FOOTING STEP DOWN
SCALE 1" = 1'-0"

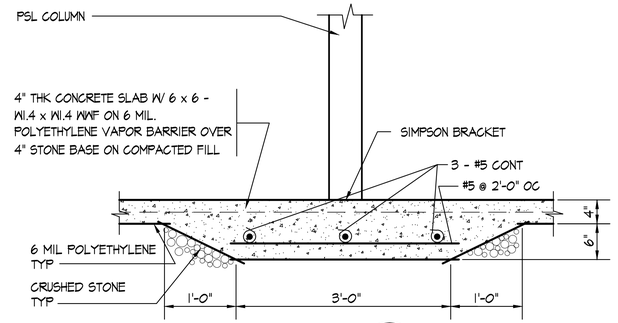


TYPICAL CONSTRUCTION JOINT
SCALE 1" = 1'-0"



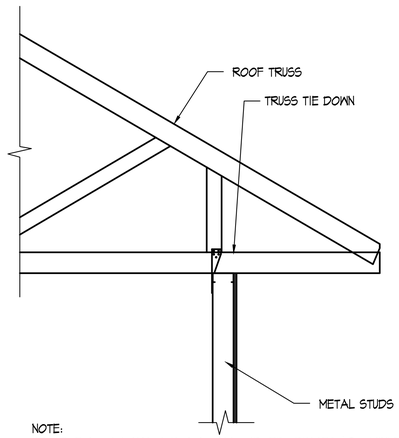
THICKENED SLAB
SCALE 1" = 1'-0"

1 | S1.1 | S4.1



THICKENED SLAB
SCALE 1" = 1'-0"

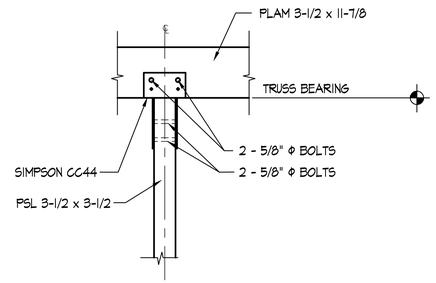
2 | S1.1 | S4.1



NOTE:
PROVIDE ADDITIONAL STUDS AT ALL GIRDER TRUSSES (3 - MINIMUM). TRUSS TIES SUBJECT TO CHANGE AFTER REVIEW OF TRUSS SHOP DRAWINGS

TRUSS BEARING @ EXT WALL
SCALE 1" = 1'-0"

3 | S1.2 | S4.1



BEAM DETAIL
SCALE 1" = 1'-0"

4 | S1.2 | S4.1

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ALLEGHANY COUNTY, VIRGINIA

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JMB
COMMISSION NUMBER
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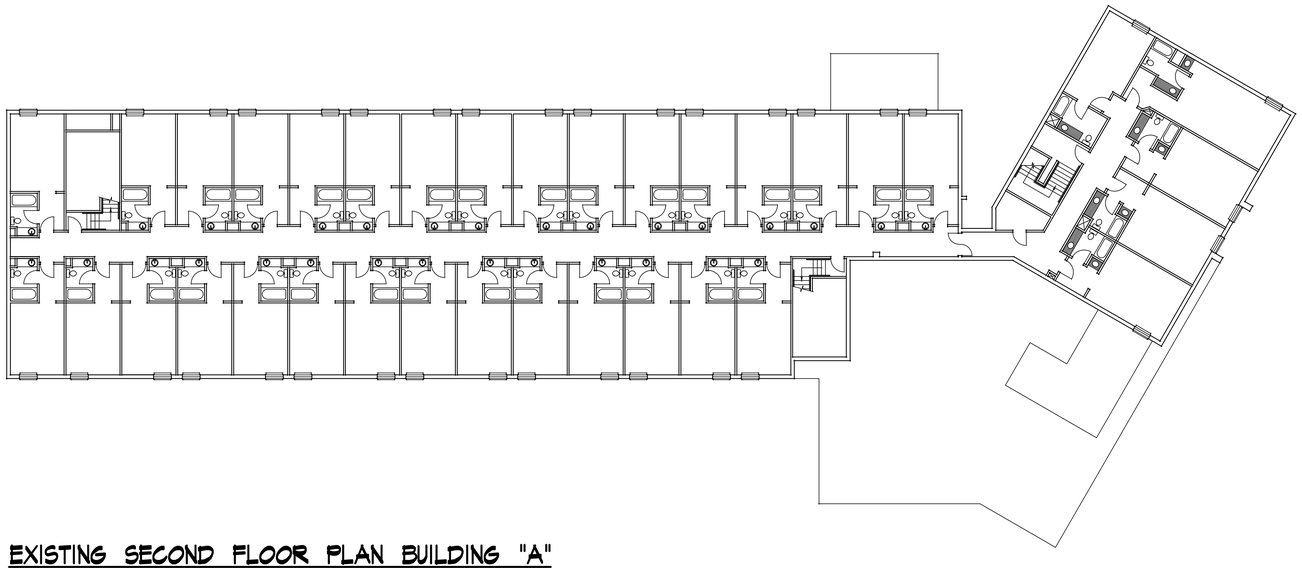
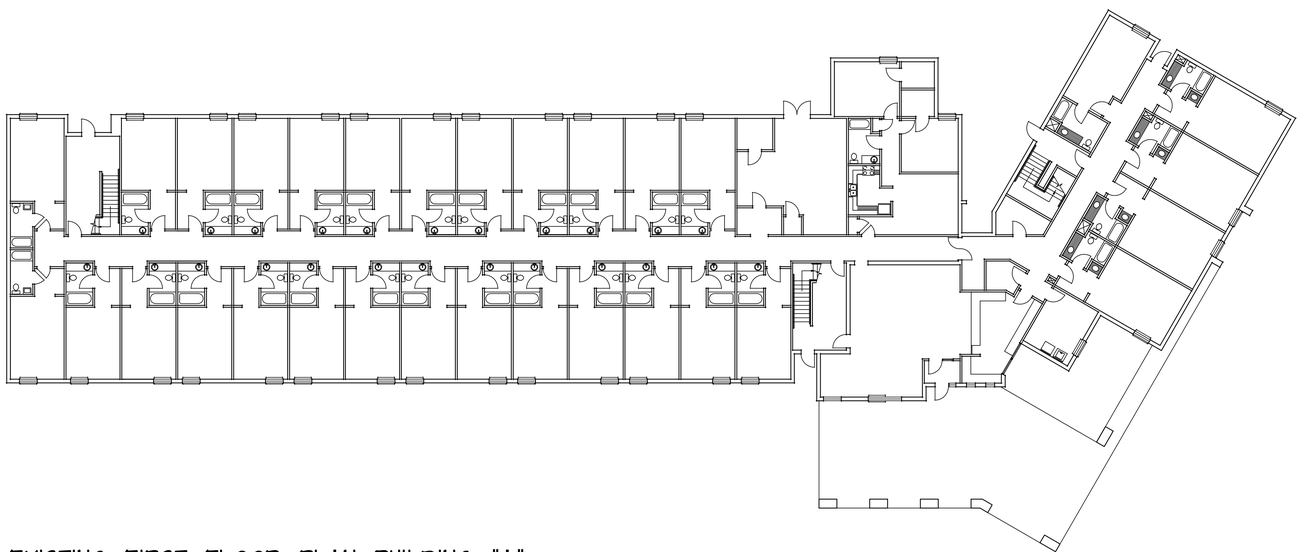


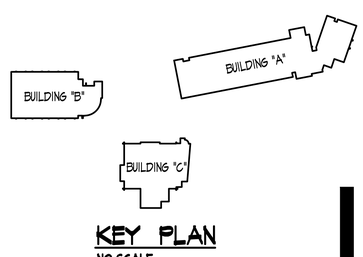
EXISTING SECOND FLOOR PLAN BUILDING "A"

SCALE 1/16" = 1'-0"



EXISTING FIRST FLOOR PLAN BUILDING "A"

SCALE 1/16" = 1'-0"



KEY PLAN

NO SCALE

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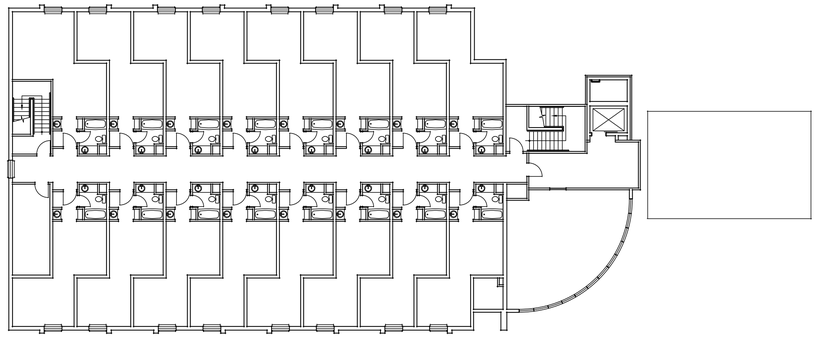
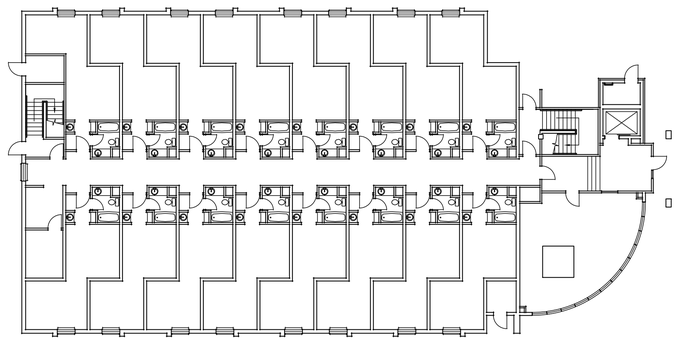
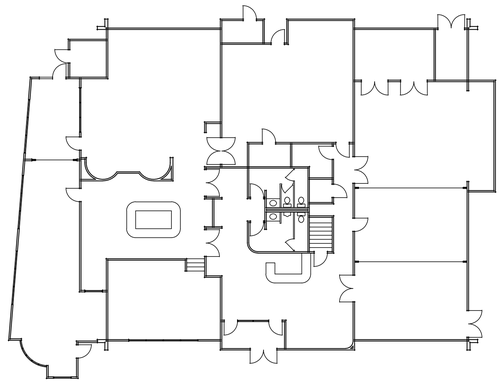


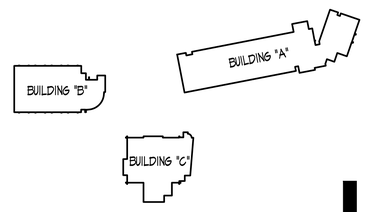
EXISTING SECOND FLOOR PLAN BUILDING "B"
SCALE 1/16" = 1'-0"



EXISTING FIRST FLOOR PLAN BUILDING "B"
SCALE 1/16" = 1'-0"



EXISTING FLOOR PLAN BUILDING "C"
SCALE 1/16" = 1'-0"



KEY PLAN
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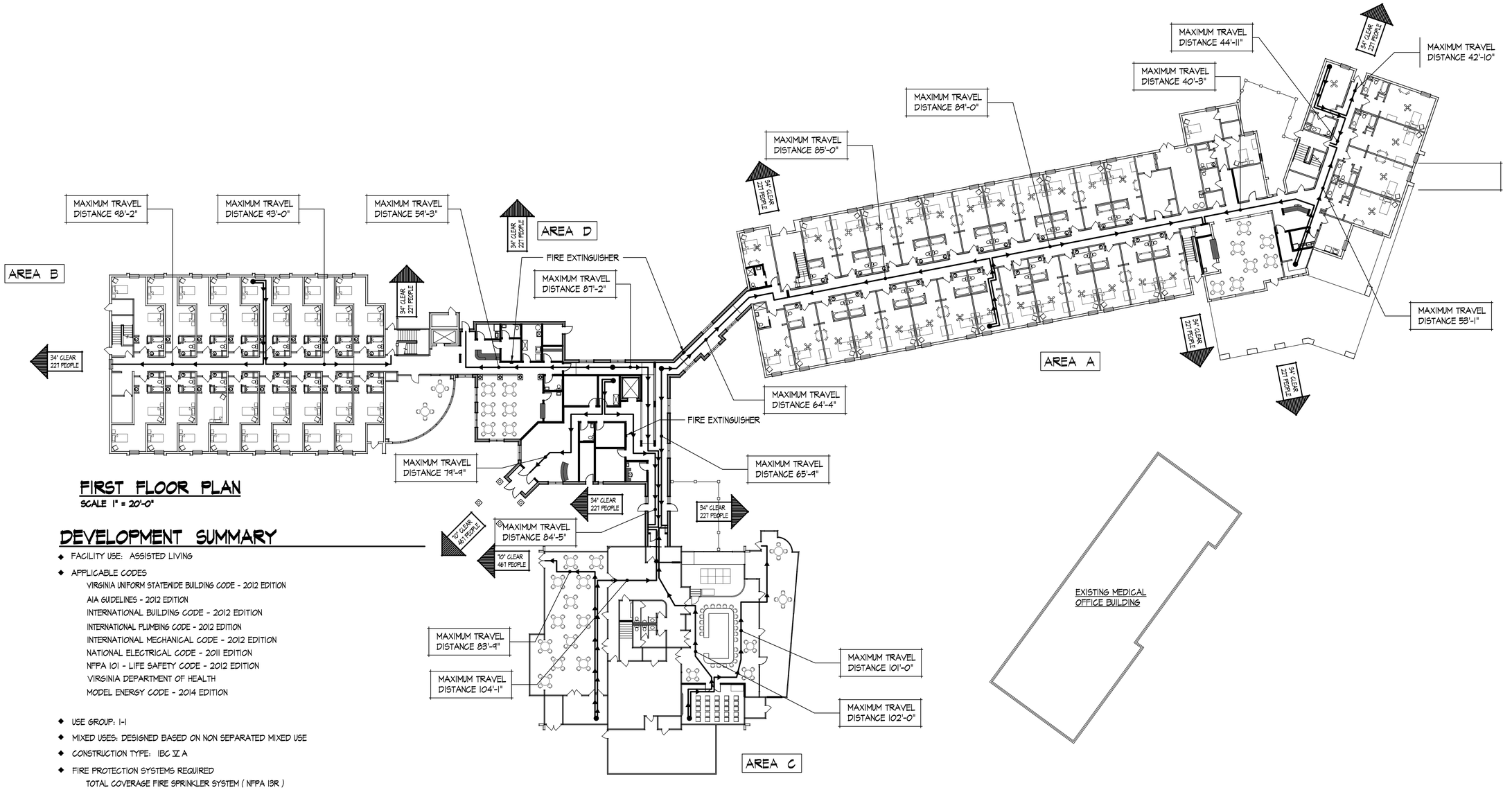


FIRST FLOOR PLAN

SCALE 1" = 20'-0"

DEVELOPMENT SUMMARY

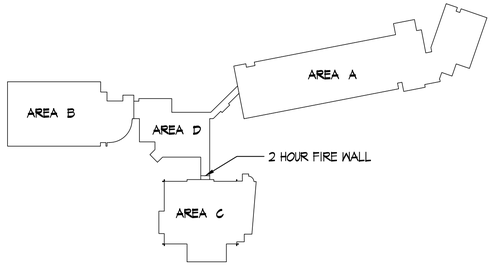
- FACILITY USE: ASSISTED LIVING
- APPLICABLE CODES
  - VIRGINIA UNIFORM STATEWIDE BUILDING CODE - 2012 EDITION
  - AIA GUIDELINES - 2012 EDITION
  - INTERNATIONAL BUILDING CODE - 2012 EDITION
  - INTERNATIONAL PLUMBING CODE - 2012 EDITION
  - INTERNATIONAL MECHANICAL CODE - 2012 EDITION
  - NATIONAL ELECTRICAL CODE - 2011 EDITION
  - NFPA 101 - LIFE SAFETY CODE - 2012 EDITION
  - VIRGINIA DEPARTMENT OF HEALTH
  - MODEL ENERGY CODE - 2014 EDITION
- USE GROUP: I-1
- MIXED USES: DESIGNED BASED ON NON SEPARATED MIXED USE
- CONSTRUCTION TYPE: IBC V A
- FIRE PROTECTION SYSTEMS REQUIRED
  - TOTAL COVERAGE FIRE SPRINKLER SYSTEM (NFPA 13R)
    - ATTIC AND CANOPY AREA - DRY SYSTEM
    - HABITABLE AND SUPPORT AREAS - WET SYSTEM
    - ALL CONTROL VALVES SHALL BE ELECTRICALLY SUPERVISED
  - TYPE V (III) (NFPA 220)
  - FIRE ALARM SYSTEM (NFPA 72)
- AREA TABULATION

  AREA ALLOWED

- BASE AREA (TABLE 503)	10,500	SQ FT
- SPRINKLER INCREASE (506.3) 200% x 10,500	21,000	SQ FT
- FRONTAGE INCREASE (506.2) 67% x 10,500	7,035	SQ FT
- TOTAL AREA (ALLOWED)	38,553	SQ FT
AREA ACTUAL (503.1) AREA A + B + D	33,831	SQ FT
AREA ACTUAL (503.1) AREA C	8,563	SQ FT

- BUILDING HEIGHT

ALLOWABLE HEIGHT (TABLE 503)	3 STORIES	50'-0"
ACTUAL HEIGHT	2 STORIES	31'-10"



- FIRE RESISTANCE RATINGS

	REQUIRED	PROVIDED
NON BEARING WALLS	0 HOUR	0 HOUR
TENANT SEPERATION WALLS	1 HOUR	1 HOUR UL TEST U305
EXTERIOR WALLS	1 HOUR	1 HOUR UL TEST U356
CORRIDOR WALL	1 HOUR	1 HOUR UL TEST U305
ROOF/CEILING	1 HOUR	1 HOUR UL TEST P523
FLOOR CONSTRUCTION	1 HOUR	1 HOUR UL TEST L522
CORRIDOR FLOOR	1 HOUR	1 HOUR IBC TABLE 720.1(3) ITEM 15-1, 1
COLUMNS	1 HOUR	1 HOUR IBC TABLE 720.1 (2) ITEM 1-1, 2
ELEVATOR SHAFT	1 HOUR	3 HOUR UL TEST U904
STAIR WALL	1 HOUR	1 HOUR UL TEST U305

ALL FIRE RESISTANT ASSEMBLIES IN CONCEALED SPACES SHALL BE LABELED TO INDICATE THEIR RATING WITH LETTERS 2" IN HEIGHT

- OCCUPANT LOAD

AREA A + B + D			
SLEEPING AREA	33,438 SQ FT / 120	= 279	PEOPLE
ASSEMBLY AREA	2,046 SQ FT / 15	= 137	PEOPLE
SUPPORT AREA	1,480 SQ FT/ 240	= 7	PEOPLE
TOTAL		423	PEOPLE
AREA C			
ASSEMBLY AREA	4,426 SQ FT / 15	= 295	PEOPLE
SUPPORT AREA	1,624 SQ FT/ 240	= 7	PEOPLE
TOTAL		302	PEOPLE

- EXIT CAPACITY

REQUIRED	3 DOORS - 725 PEOPLE
ACTUAL	11 DOORS - 2,977 PEOPLE

- TRAVEL DISTANCE

MAXIMUM ALLOWABLE	250'
MAXIMUM ACTUAL	137'

- DRAFT STOPPING

  NOT REQUIRED - BUILDING FULLY SPRINKLED

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELEMENTS OF PERFORMANCE BASED SPECIFICATIONS.
THE FIRE ALARM, FIRE SUPPRESSION SYSTEM, NURSE CALL SYSTEM AND ALL OTHER BUILDING ELEMENTS REFERENCED IN THE DEVELOPMENT SUMMARY ARE TO BE INSTALLED IN CONFORMANCE WITH THE REFERENCED STANDARDS. ALL SYSTEMS SHALL BE COMPLETELY OPERATIONAL WITH ALL REQUIRED ELEMENTS. THE CONTRACTOR SHALL SUBMIT PLANS FOR ALL LIFE SAFETY SYSTEMS TO THE ARCHITECT, THE BUILDING OFFICIAL AND THE STATE FIRE MARSHALL FOR APPROVAL PRIOR TO ANY FABRICATION OR INSTALLATION.

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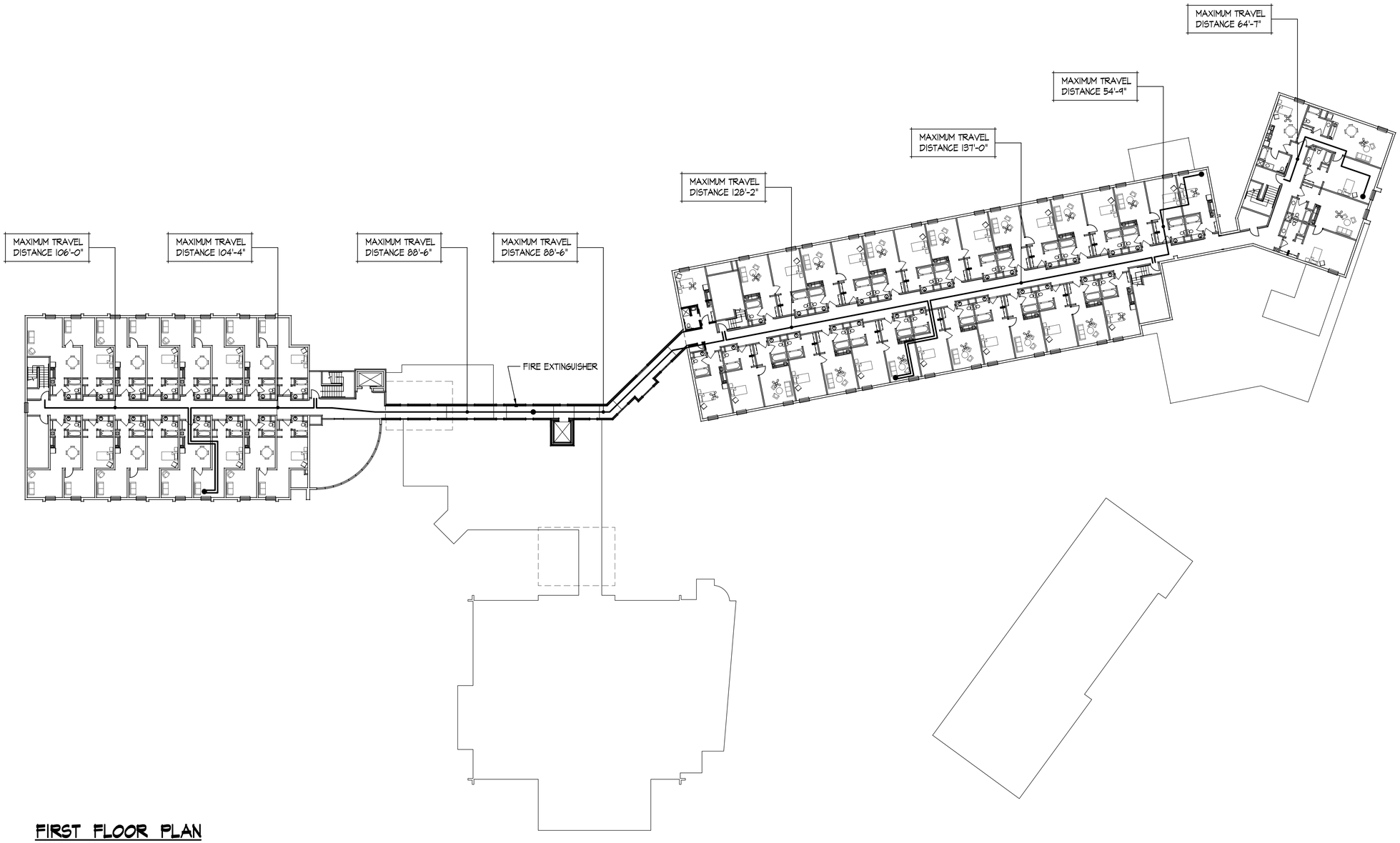

FIRST FLOOR PLAN

SCALE 1" = 20'-0"

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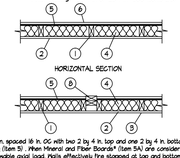
15 OCT 2018

LS1.2

JONES & JONES ASSOCIATES / ARCHITECTS PC

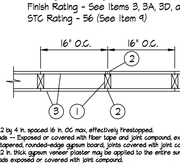
Design No. U356
Bearing Wall Rating - 1 HR.
Finish Rating - 29 Min or 25 Min (See Items 2C)



1. Wood Studs -- Nom 2 by 4 in. spaced 16 in. OC with two 2 by 4 in. top and one 2 by 4 in. bottom plates. Studs laterally braced by wood structural panel sheathing (Item 5). When Mineral and Fiber Boards* (Item 5A) are considered as bracing for the studs, the load is restricted to 76% of allowable axial load. Walls effectively fire stopped at top and bottom of wall.
2. Gypsum Board* -- Any 5/8 in. thick UL Classified gypsum board that is eligible for use in Design Nos. U301, U312 or U305. Nom 5/8 in. thick, 4 ft wide, applied vertically and nailed to studs and bearing plates 7 in. OC with 6d cement-coated nails, 1-7/8 in. long with 1/4 in. diam head.
   When Item 7, Steel Framing Members*, is used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.
   When Item 7A, "B", or "C Steel Framing Members*, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite side of wood stud without furring channels as described in Item 3.
   When Item 7, resilient channels are used, Item 2 is Nom 4 ft wide gypsum panels applied vertically. Screws attached furring channels with 1 in. long, self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway between studs.
   AMERICAN GYPSUM CO -- Type AGX-1 (Item rating 25 min), Type AGX-II (finish rating 26 min) or Type AG-C
   BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO -- Type GN-1 (finish rating 24 min)
   BPB AMERICA INC -- Type 1 Type SFS (finish rating 20 min) or FRPG, ProRoc Type C or ProRoc Type X (finish rating 26 min), Type DGRG (finish rating 23 min)
   BPB CANADA INC -- ProRoc Type C, ProRoc Type X or ProRoc Type Abuse-Resistant (finish rating 26 min)
   CANADIAN GYPSUM COMPANY -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FCV (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IP-C (finish rating 24 min), Type IP-CAR (finish rating 24 min), Type IP-X (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type VCX (finish rating 24 min)
   G-P GYPSUM CORP. SUB OF GEORGIA-PACIFIC CORP -- Type S (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DG6 (finish rating 20 min), Type GPTG (finish rating 20 min), Type GPTG2 (finish rating 20 min), Type GPTS6 (finish rating 26 min), Type DAP, Type S-12 (finish rating 20 min), DA
   LAFARGE NORTH AMERICA INC -- Type LGFC2 (finish rating 20 min), Type LGFC5 (finish rating 20 min), Type LGFC6 (finish rating 26 min), Type LGFC-G (finish rating 20 min), Type LGFC-GA (finish rating 20 min), Type LGFC2A, Type LGFC-GA
   NATIONAL GYPSUM CO -- Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSM (finish rating 20 min), Type FSM-2 (finish rating 20 min), Type FSM-2P, Type FSM-5 (finish rating 22 min), Type FSM-G (finish rating 22 min), Type FSM-S (finish rating 20 min), Type FSMR-C
   PABCO BUILDING PRODUCTS, L L C, DBA
   PABCO GYPSUM -- Types PG-5M, PG-5M (finish rating 20 min), Types PG-5M, PG-5M (finish rating 20 min), Types PG-6M, PG-6M (finish rating 20 min), Types PG-6, PG-6 (finish rating 23 min), Types PG-5MG, PG-5MG (finish rating 20 min), Types PG-5, PG-5 (finish rating 20 min)
   THERMAFIBER INC -- Type SAFB
3A. Gypsum Board* -- (As an alternate to Item 3) -- 5/8 in. thick gypsum panels, with beveled square, or tapered edges, applied either horizontally or vertically to studs as described in Item 2. Joints staggered on opposite sides of studs. Screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in Hours of other than 45 in. gypsum boards are to be installed horizontally.
   AMERICAN GYPSUM CO -- Types AGX-1 (finish rating 25 min), Type AG-C (finish rating 25 min),
   CANADIAN GYPSUM COMPANY -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FCV (finish rating 24 min) , Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type VCX (finish rating 24 min), Type WRX (finish rating 24 min)
   UNITED STATES GYPSUM CO -- Type AR (finish rating 24 min), Type SCX (finish rating 24 min), Type C (finish rating 24 min), Type PRX (finish rating 24 min), Type PRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type FCV (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)
   USG MEXICO S A DE C V -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FCV (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IP-C (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type VCX (finish rating 24 min), Type WRX (finish rating 24 min)
3B. Gypsum Board* -- (As an alternate to Item 3) -- 5/8 in. thick gypsum panels, with beveled square, or tapered edges, applied either horizontally or vertically to studs as described in Item 2. Joints staggered on opposite sides of studs. Screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in Hours of other than 45 in. gypsum boards are to be installed horizontally.
   CANADIAN GYPSUM COMPANY -- Type AR, IP-AR.
   USG MEXICO S A DE C V -- Types AR, IP-AR
3C. Gypsum Board* -- (As an alternate to Items 3, 3A and 3B) - 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally to one side of the assembly. Installed with 1-1/8 in. long Type S drywall screws spaced 8 in. OC. Additional nails or screws to Item 4 or 1-1/4 in. long Type N coarse thread gypsum panel steel screws as described in Item 3A. Joint covering (Item 2) not required.
   CANADIAN GYPSUM COMPANY -- Type SHX.
   UNITED STATES GYPSUM CO -- Type SHX,
   USG MEXICO S A DE C V -- Type SHX
3D. Wall and Partition Facings and Accessories* -- (As an alternate to Items 3, 3A, 3B, and 3C, when used) - Nominal 5/8 in. thick, 4 ft wide panels, applied vertically to studs and bearing plates with one side of the assembly. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type N coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead lined gypsum wallboard and optional at remaining stud locations. Lead batten strips, 2 in. wide, max 10 lb /sq ft with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201, Grade "C". Lead disca compression fitted or adhered over steel screw heads as an option at other locations. Max 3/4 in. diam by max 0.125 in. thick lead disca compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201, Grade "C".
   RAY-BAR ENGINEERING CORP -- Type RSH-LBH (finish rating 24 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 gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement-coated nail per fastener. Corners of drywall and 2 studs must be nailed to top and bottom plate using No. 6d cement coated nails.
5. Batts and Blankets* -- (Optional) -- Required when Item 6A is used.) Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be placed to completely fill the stud cavities and shall be secured to the studs 24 in. OC with staples, nails or screws.
   CERTAINTEED CORP
   GUARDIAN FIBERGLASS INC
   JOHNS MANVILLE INTERNATIONAL INC
   KNAUF INSULATION GMBH
   OWENS CORNING HT INC, DIV OF OWENS CORNING -- Corning Fiberglas Corp.
   ROCK, WOOL MANUFACTURING CO -- Delta Board.
   ROXUL INC
   THERMAFIBER INC -- Type SAFB.
5A. Fiber, Sprayed* -- (Not shown - Not for use with Item 6A.) As an alternate to Batts and Blankets (Item 5) -- 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. Nominal dry density of 3.0 lb/ft3. Alternate application method. The fiber is applied with U.S. GreenFiber LLC Type AD000 hot melt adhesive at a nominal ratio of one part adhesive to 8.8 parts fiber by compressing fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 2.5 lb/ft3.
   U S GREENFIBER L L C -- Cocoon2 Stabilized or Cocoon+FRM (Fire Rated Material)
5B. Fiber, Sprayed* -- (Not shown - Not for use with Item 6A.) 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.
   NI-ROCK CO INC -- Cellulose Insulation
5C. Batts and Blankets* -- Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 4 in. face of the studs with staples placed 24 in. OC.
   THERMAFIBER INC -- Type SAFB
5D. Glass Fiber Insulation -- (As an alternate to Item 5C) -- 3 in. thick glass fiber batts as the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall, attached to the 4 in. face of the studs with staples placed 24 in. OC. See Batts and Blankets (BKNY or BLJZ) Categories for names of Classified companies.
5E. Batts and Blankets* -- (As an alternate for use with Wall and Partition Facings and Accessories, Item 3D) -- Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.250 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNX) for names of manufacturers.
6. Steel Framing Members (Optional, Not Shown)* -- Furring channels and Steel Framing Members as described below.
   a. Furring Channels -- Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 5. 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 8 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoints of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.
   b. Steel Framing Members* -- Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC. Gerrie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
   FLITTED INC -- Type Gerrie Clip
7C. 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. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 5. Ends of adjoining channels overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side) in, and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 2. Side joint furring channels shall be attached to studs with RESILIMOUNT Sound Isolation Clips - Type A237R located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge.
   b. Steel Framing Members* - Resilient sound isolation clip used to attach furring channels (Item 7Ca) to studs. Clips spaced 16 in. OC, and secured to studs with No. 10 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
   STUDCO BUILDING SYSTEMS -- RESILMOUNT Sound Isolation Clips - Type A237R
8. Non-Bearing Wall Partition Intersection -- (Optional) Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 16n. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max 16 in. OC. vertically. Intersection between partition noad studs to be flush with the 2 by 4 in. studs. The nail partition nood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

*Bearing the UL Classification Mark

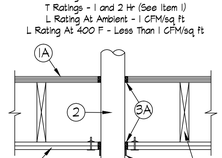
Design No. U305
Bearing Wall Rating - 1 HR.
Finish Rating - See Items 9, 9A, 9D, and 9E.
STC Rating - 56 (See Item 9)



1. Wood Studs -- Nom 2 by 4 in. spaced 16 in. OC max, effectively fire-stopped.
2. Joints and Nail-Heads -- Exposed or covered with fiber tape and joint compound, except where required for specific edge configuration. For tapered, rounded-edge gypsum board, 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, nailheads exposed or covered with joint compound.
3. Gypsum Board* -- 5/8 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically, Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam head. When used in widths other than 48 in., gypsum panels are to be installed horizontally. For an alternate method of attachment of gypsum panels, refer to Item 6 or 6A, Steel Framing Members*.
   When Item 6, Steel Framing Members*, is used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.
   When Item 6A, Steel Framing Members*, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite side of wood stud without furring channels as described in Item 3.
   When Item 7, resilient channels are used, Item 2 is Nom 4 ft wide gypsum panels applied vertically. Screws attached furring channels with 1 in. long, self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway between studs.
   AMERICAN GYPSUM CO -- Types AGX-1 (Item rating 25 min), Type AGX-II (finish rating 26 min) or Type AG-C
   BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO -- Type GN-1 (finish rating 24 min)
   BPB AMERICA INC -- Type 1 Type SFS (finish rating 20 min) or FRPG, ProRoc Type C or ProRoc Type X (finish rating 26 min), Type DGRG (finish rating 23 min)
   BPB CANADA INC -- ProRoc Type C, ProRoc Type X or ProRoc Type Abuse-Resistant (finish rating 26 min)
   CANADIAN GYPSUM COMPANY -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FCV (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IP-C (finish rating 24 min), Type IP-CAR (finish rating 24 min), Type IP-X (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type VCX (finish rating 24 min)
   G-P GYPSUM CORP. SUB OF GEORGIA-PACIFIC CORP -- Type S (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DG6 (finish rating 20 min), Type GPTG (finish rating 20 min), Type GPTG2 (finish rating 20 min), Type GPTS6 (finish rating 26 min), Type DAP, Type S-12 (finish rating 20 min), DA
   LAFARGE NORTH AMERICA INC -- Type LGFC2 (finish rating 20 min), Type LGFC5 (finish rating 20 min), Type LGFC6 (finish rating 26 min), Type LGFC-G (finish rating 20 min), Type LGFC-GA (finish rating 20 min), Type LGFC2A, Type LGFC-GA
   NATIONAL GYPSUM CO -- Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSM (finish rating 20 min), Type FSM-2 (finish rating 20 min), Type FSM-2P, Type FSM-5 (finish rating 22 min), Type FSM-G (finish rating 22 min), Type FSM-S (finish rating 20 min), Type FSMR-C
   PABCO BUILDING PRODUCTS, L L C, DBA
   PABCO GYPSUM -- Types PG-5M, PG-5M (finish rating 20 min), Types PG-5M, PG-5M (finish rating 20 min), Types PG-6M, PG-6M (finish rating 20 min), Types PG-6, PG-6 (finish rating 23 min), Types PG-5MG, PG-5MG (finish rating 20 min), Types PG-5, PG-5 (finish rating 20 min)
   THERMAFIBER INC -- Type SAFB
3A. Gypsum Board* -- (As an alternate to Item 3) -- 5/8 in. thick gypsum panels, with beveled square, or tapered edges, applied either horizontally or vertically to studs as described in Item 2. Joints staggered on opposite sides of studs. Screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in Hours of other than 45 in. gypsum boards are to be installed horizontally.
   AMERICAN GYPSUM CO -- Types AGX-1 (finish rating 25 min), Type AG-C (finish rating 25 min),
   CANADIAN GYPSUM COMPANY -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FCV (finish rating 24 min) , Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type VCX (finish rating 24 min), Type WRX (finish rating 24 min)
   UNITED STATES GYPSUM CO -- Type AR (finish rating 24 min), Type SCX (finish rating 24 min), Type C (finish rating 24 min), Type PRX (finish rating 24 min), Type PRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type FCV (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)
   USG MEXICO S A DE C V -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FCV (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IP-C (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type VCX (finish rating 24 min), Type WRX (finish rating 24 min)
3B. Gypsum Board* -- (As an alternate to Item 3) -- 5/8 in. thick gypsum panels, with beveled square, or tapered edges, applied either horizontally or vertically to studs as described in Item 2. Joints staggered on opposite sides of studs. Screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in Hours of other than 45 in. gypsum boards are to be installed horizontally.
   CANADIAN GYPSUM COMPANY -- Type AR, IP-AR.
   USG MEXICO S A DE C V -- Types AR, IP-AR
3C. Gypsum Board* -- (As an alternate to Items 3, 3A and 3B) - 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally to one side of the assembly. Installed with 1-1/8 in. long Type S drywall screws spaced 8 in. OC. Additional nails or screws to Item 4 or 1-1/4 in. long Type N coarse thread gypsum panel steel screws as described in Item 3A. Joint covering (Item 2) not required.
   CANADIAN GYPSUM COMPANY -- Type SHX.
   UNITED STATES GYPSUM CO -- Type SHX,
   USG MEXICO S A DE C V -- Type SHX
3D. Wall and Partition Facings and Accessories* -- (As an alternate to Items 3, 3A, 3B, and 3C, when used) - Nominal 5/8 in. thick, 4 ft wide panels, applied vertically to studs and bearing plates with one side of the assembly. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type N coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead lined gypsum wallboard and optional at remaining stud locations. Lead batten strips, 2 in. wide, max 10 lb /sq ft with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201, Grade "C". Lead disca compression fitted or adhered over steel screw heads as an option at other locations. Max 3/4 in. diam by max 0.125 in. thick lead disca compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201, Grade "C".
   RAY-BAR ENGINEERING CORP -- Type RSH-LBH (finish rating 24 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 gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement-coated nail per fastener. Corners of drywall and 2 studs must be nailed to top and bottom plate using No. 6d cement coated nails.
5. Batts and Blankets* -- (Optional -- Required when Item 6A is used.) Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be placed to completely fill the stud cavities and shall be secured to the studs 24 in. OC with staples, nails or screws.
   CERTAINTEED CORP
   GUARDIAN FIBERGLASS INC
   JOHNS MANVILLE INTERNATIONAL INC
   KNAUF INSULATION GMBH
   OWENS CORNING HT INC, DIV OF OWENS CORNING -- Corning Fiberglas Corp.
   ROCK, WOOL MANUFACTURING CO -- Delta Board.
   ROXUL INC
   THERMAFIBER INC -- Type SAFB.
5A. Fiber, Sprayed* -- (Not shown - Not for use with Item 6A.) As an alternate to Batts and Blankets (Item 5) -- 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. Nominal dry density of 3.0 lb/ft3. Alternate application method. The fiber is applied with U.S. GreenFiber LLC Type AD000 hot melt adhesive at a nominal ratio of one part adhesive to 8.8 parts fiber by compressing fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 2.5 lb/ft3.
   U S GREENFIBER L L C -- Cocoon2 Stabilized or Cocoon+FRM (Fire Rated Material)
5B. Fiber, Sprayed* -- (Not shown - Not for use with Item 6A.) 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.
   NI-ROCK CO INC -- Cellulose Insulation
5C. Batts and Blankets* -- Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 4 in. face of the studs with staples placed 24 in. OC.
   THERMAFIBER INC -- Type SAFB
5D. Glass Fiber Insulation -- (As an alternate to Item 5C) -- 3 in. thick glass fiber batts as the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall, attached to the 4 in. face of the studs with staples placed 24 in. OC. See Batts and Blankets (BKNY or BLJZ) Categories for names of Classified companies.
5E. Batts and Blankets* -- (As an alternate for use with Wall and Partition Facings and Accessories, Item 3D) -- Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.250 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNX) for names of manufacturers.
6. Steel Framing Members (Optional, Not Shown)* -- Furring channels and Steel Framing Members as described below.
   a. Furring Channels -- Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 5. 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 8 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoints of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.
   b. Steel Framing Members* -- Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC. Gerrie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
   FLITTED INC -- Type Gerrie Clip
6A. Steel Framing Members* --(Optional, Not Shown)* - Furring channels and Steel Framing Members on one side of studs as described below.
   a. Furring Channels -- Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 5. 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. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 3.
   b. Steel Framing Members* -- Used to attach furring channels (Item 6Aa) to one side of studs only. Clips spaced 48 in. OC., and secured to studs with No. 8 x 1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
7. Furring Channel -- Optional - Not Shown - For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, Insulation, Items 5C or 5D is required.
8. Caulking and Sealants -- (not shown, optional) A bead of acoustical sealant applied around the partition perimeter for sound control.
9. STC Rating -- The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 8, except:
   A. Item 1, above - Nailheads Shall be covered with joint compound.
   B. Item 2, above - Joints As described, shall be covered with fiber tape and joint compound.
   C. Item 5, above - Batts and Blankets* the cavities formed by the studs shall be friction fit with R-14 unfaced fiberglass insulation batts measuring 6-1/4 in. thick and 15-1/4 in. wide.
   D. Item 6, above - Steel Framing Members* Shall be used to attach gypsum board to studs on either the acoustical source or receiving side of the wall assembly.
   E. Item 7, above - Caulking and Sealants (not shown) A bead of acoustical sealant shall be applied around the partition perimeter for sound control.
   F. Steel Corner Fasteners (Item 4), Fiber, Sprayed (Items 5A and 5B) and Steel Framing Members (Item 6A), not evaluated as alternatives for obtaining STC rating.

*Bearing the UL Classification Mark

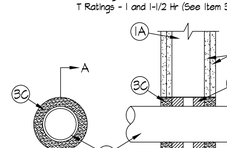
System No. F-C-2021
F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 1 and 2 Hr (See Item 1)
L Rating At Ambient - 1 CFM/sq ft.
L Rating At 400 F - Less Than 1 CFM/sq ft



1. Floor-Ceiling Assembly -- The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The 2 hr fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in Design Nos. L505, L511 or L536 in the UL Fire Resistance Directory. The F and T Ratings of the firestop system are equal to the hourly fire rating of the floor-ceiling assembly. The general construction features 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 floor opening is 9 in. (127 mm).
   B. Wood Joists* -- For 1 hr fire-rated floor-ceiling assemblies, nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped. For 2 hr fire-rated floor-ceiling assemblies, nom 2 by 10 in. (51 by 254 mm) lumber joists spaced 16 in. (406 mm) OC with nom 1 by 3 in. (25 by 76 mm) lumber bridging and with ends firestopped.
   C. Furring Channels -- (Not Shown) -- In 2 hr fire-rated assemblies, resilient galv steel furring installed perpendicular to wood joists between first and second layers of nailboard (Item 1D). Furring channels spaced max 24 in. (610 mm) OC. In 1 hr fire-rated assemblies, resilient galv steel furring installed perpendicular to wood joists between nailboard and wood joists as specified in the individual Floor-Ceiling Design. Furring channels spaced max 24 in. (610 mm) OC.
   D. Gypsum Board* -- Nom 4 ft (1.2 m) wide by 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design. First layer of gypsum board secured to wood joists or furring channels as specified in the individual Floor-Ceiling Design. Second layer of gypsum board (2 hr fire-rated assembly) screw-attached to furring channels as specified in the individual Floor-Ceiling Design. The secondary firestop device (Item 3B) must be installed in the joist cavity prior to installation of gypsum board ceiling. Max diam of ceiling opening is 9 in. (127 mm).
2. Through Penetrants -- One nonmetallic pipe or conduit to be installed approximately midway between wood joists and centered within the firestop system. Diam of openings hole-sawed through flooring system and through gypsum board ceiling to be nom 1/4 in. (6 mm) to 1/2 in. (13 mm) larger than the outside diam of through-penetrant. Pipe or conduit to be rigidly supported on both sides of the floor-ceiling assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
   A. Polyvinyl Chloride (PVC) Pipe -- Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
   B. Rigid Nonmetallic Conduit* -- Nom 4 in. (102 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).
   C. Chlorinated Polyvinyl Chloride (CPVC) Pipe -- Nom 4 in. (102 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
3. Firestop System -- The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material* -- Sealant -- Fill material forced into annulus to fill space to max extent possible, flush with top surface of floor and bottom surface of ceiling.
      SPECIFIED TECHNOLOGIES INC -- SpecSeal 100, 101, 120, 129 or 135 Sealant, SpecSeal LCI Sealant
   B. Firestop Device -- Galv steel collar lined with an intumescent material sized to fit the specific diam of the through-penetrant. Device shall be wrapped around through-penetrant on underside of floor (Item 1A) and underside of gypsum board ceiling (Item 1D) in accordance with the accompanying installation instructions. Firestop device secured to subfloor with min 1/4 in. (6 mm) by 1-1/4 in. (32 mm) screws in conjunction with 1/4 in. (6 mm) by 1-1/4 in. (32 mm) diam steel fender washers. Firestop device secured to finished gypsum board ceiling with 3/16 in. (4.8 mm) diam by 3-1/2 in. (89 mm) long steel toggle bolts in conjunction with 1/4 in. (6 mm) by 1-1/4 in. (32 mm) diam steel fender washers. Firestop device secured to wallboard with min 1/4 in. (6 mm) by 3/4 in. (19 mm) long wood screws in conjunction with 1/4 in. (6 mm) by 1-1/4 in. (32 mm) diam steel fender washers. Firestop device secured to steel floor or steel deck with 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips required behind vertical joints of lead lined gypsum wallboard and optional at remaining stud locations. Lead batten strips, 2 in. wide, max 10 lb /sq ft with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201, Grade "C". Lead disca compression fitted or adhered over steel screw heads as an option at other locations. Max 3/4 in. diam by max 0.125 in. thick lead disca compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201, Grade "C".
      SPECIFIED TECHNOLOGIES INC -- SpecSeal 100, 101, 120, 129 or 135 Sealant, SpecSeal LCI Collar. When SpecSeal LCC Collar is used, the max annular space shall be 1/8 in. (3 mm) for max 2-1/2 in. (64 mm) diam pipe or conduit and shall be max 1/4 in. (6 mm) for pipe or conduit larger than 2-1/2 in. (64 mm) diam.

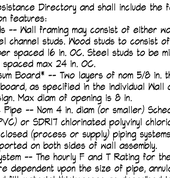
*Bearing the UL Listing Mark
*Bearing the UL Classification Marking

System No. W-L-2014
Formerly System No. 257
F Ratings - 1 and 2 Hr (See Item 3)
T Ratings - 1 and 1-1/2 Hr (See Item 3)



SECTION A-A

Design No. X526
Ratings - 1, 2, 3 and 4 HR.



1. Steel Column - Min sizes of W shape and tubular steel columns in the AISC Steel Construction Manual as shown under Item 2.
2. Gypsum Board - Any 5/8 in. thick or 1/2 in. thick nailboard bearing the Underwriters Laboratories Inc. Fire Resistance Classification Marking. Min total thicknesses of layers in inches for the various ratings and min column sizes are as follows:

| Square Columns | Min Column Size | |

CHAPTER 3: BUILDING BLOCKS

302 Floor or Ground Surfaces

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed exposed edge. Carpet edge trim shall comply with 303.

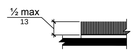


Figure 302.2 Carpet Pile Height

302.3 Openings. Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

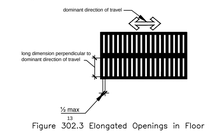


Figure 302.3 Elongated Openings in Floor or Ground Surfaces

303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.

Figure 303.2 Vertical Change in Level

303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

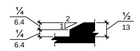


Figure 303.3 Beveled Change in Level

304 Turning Space

304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

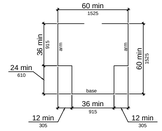


Figure 304.3.2 T-Shaped Turning Space

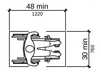


Figure 305.3 Clear Floor or Ground Space

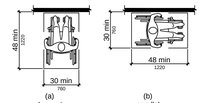


Figure 305.5 Position of Clear Floor or Ground Space

305.7.1 Forward Approach. Alcoves shall be 36 inches (915 mm)wide minimum where the depth exceeds 24 inches (610 mm).

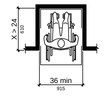


Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach

305.7.2 Parallel Approach. Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).

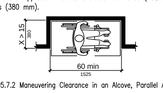


Figure 305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach

306 Knee and Toe Clearance

306.2 Toe Clearance.

306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.

306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.

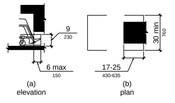


Figure 306.2 Toe Clearance

306.3 Knee Clearance.

306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.

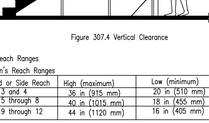


Figure 306.3 Knee Clearance

307 Protruding Objects

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

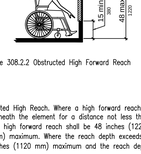


Figure 307.2 Limits of Protruding Objects

307.3 Post-Mounted Objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (685 mm) minimum and 80 inches (2030 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (685 mm) maximum or 80 inches (2030 mm) minimum above the finish floor or ground.

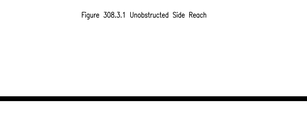


Figure 307.3 Post-Mounted Protruding Objects

307.4 Vertical Clearance. Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground.

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

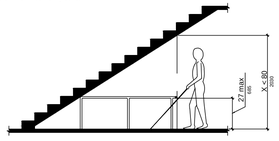


Figure 307.4 Vertical Clearance

308 Reach Ranges

Children's Reach Ranges

Forward or Side Reach	High (maximum)	Low (minimum)
Ages 3 and 4	36 in (915 mm)	20 in (510 mm)
Ages 5 through 8	40 in (1015 mm)	18 in (455 mm)
Ages 9 through 12	44 in (1120 mm)	16 in (405 mm)

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

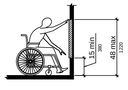


Figure 308.2.2 Obstructed High Forward Reach

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

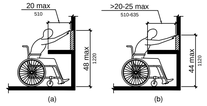
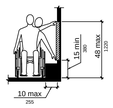


Figure 308.3.1 Unobstructed Side Reach

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.



308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

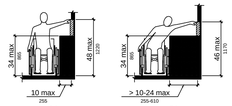


Figure 308.3.2 Obstructed High Side Reach

309 Operable Parts

309.2 Clear Floor Space. A clear floor or ground space complying with 305 shall be provided.

309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in 308.

309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.

CHAPTER 4: ACCESSIBLE ROUTES

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

Advisory 402.2 Components. Walking surfaces must have running slopes not steeper than 1:20; see 403.3. Other components of accessible routes, such as ramps (405) and curb ramps (406), are permitted to be more steeply sloped.

403 Walking Surfaces

403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403.

403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

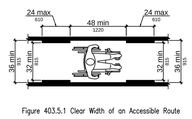


Figure 403.5.1 Clear Width of an Accessible Route

403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

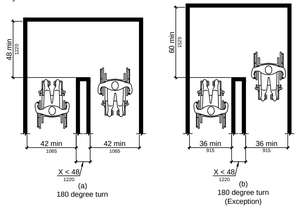


Figure 403.5.2 Clear Width at Turn

403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum.

404 Doors, Doorways, and Gates

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

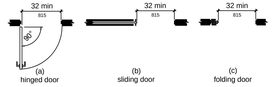


Figure 404.2.3 Clear Width of Doorways

404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

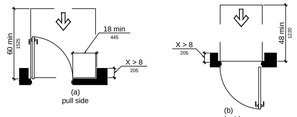


Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

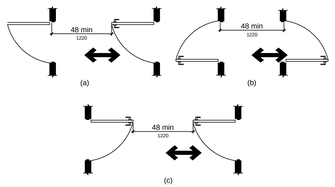


Figure 404.2.6 Doors in Series and Gates in Series

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

404.2.8.1 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

404.2.8.2 Spring Hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.

404.2.9 Door and Gate Opening Force. Fire doors shall have a minimum opening force allowable by the appropriate administrative authority. The force for pushing or pulling open a door or gate other than fire doors shall be as follows:

1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum.
2. Sliding or folding doors: 5 pounds (22.2 N) maximum.

These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.

404.2.10 Door and Gate Surfaces. Swinging door and gate surfaces within 10 inches (255 mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates shall be capped.

404.2.11 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

404.3 Automatic and Power-Assisted Doors and Gates. Automatic doors and automatic gates shall comply with 404.3. Full-powered automatic doors shall comply with ANSI/BHMA A156.10 (incorporated by reference, see "Referenced Standards" in Chapter 1). Low-energy and power-assisted doors shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).

404.3.2 Maneuvering Clearance. Clearances at power-assisted doors and gates shall comply with 404.2.4. Clearances at automatic doors and gates without standby power and serving an accessible means of egress shall comply with 404.2.4.

404.3.7 Revolving Doors, Revolving Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

405 Ramps

405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12.

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.

405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear width between handrails shall be 36 inches (915 mm) minimum.

405.6 Rise. The rise for any ramp run shall be 30 inches (760 mm) maximum.

405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run. Landings shall comply with 405.7.

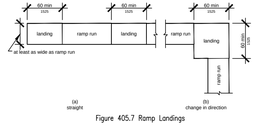


Figure 405.7 Ramp Landings

405.7.1 Slope. Landings shall have slope no steeper than 1:48. Changes in level are not permitted.

405.7.2 Width. The landing clear width shall be at least as wide as the widest ramp run leading to the landing.

405.7.3 Length. The landing clear length shall be 60 inches (1525 mm) long minimum.

405.7.4 Change in Direction. Ramps that change direction between runs at landings shall have a clear landing 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum.

405.7.5 Doorways. Where doorways are located adjacent to a ramp landing, maneuvering clearances required by 404.2.4 and 404.3.2 shall be permitted to overlap the required landing

405.8 Handrails. Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505.

405.9 Edge Protection. Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.

405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 505.

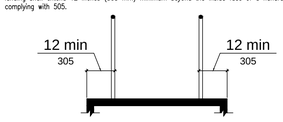


Figure 405.9.1 Extended Floor or Ground Surface Edge Protection

405.9.2 Curb or Barrier. A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish floor or ground surface.

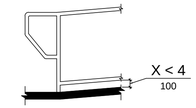


Figure 405.9.2 Curb or Barrier Edge Protection

406 Curb Ramps

406.1 General. Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.

406.2 Counter Slope. Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.

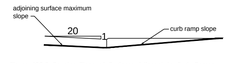


Figure 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps

406.3 Sides of Curb Ramps. Where provided, curb ramp flares shall not be steeper than 1:10.

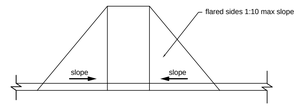


Figure 406.3 Sides of Curb Ramps

406.4 Landings. Landings shall be provided at the tops of curb ramps. The landing clear length shall be 36 inches (915 mm) minimum. The landing clear width shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing.

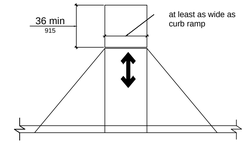


Figure 406.4 Landings at the Top of Curb Ramps

406.5 Location. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.

406.6 Diagonal Curb Ramps. Diagonal or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have a clear space 48 inches (1220 mm) minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1220 mm) minimum clear space within the markings. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches (610 mm) long minimum located on each side of the curb ramp and within the marked crossing.

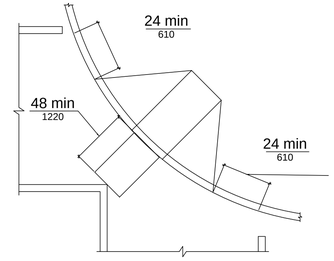


Figure 406.6 Diagonal or Corner Type Curb Ramps

406.7 Islands. Raised islands in crossings shall be cut through level with the street or have curb ramps at both sides. Each curb ramp shall have a level area 48 inches (1220 mm) long minimum by 36 inches (915 mm) wide minimum at the top of the curb ramp in the part of the island intersected by the crossings. Each 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum area shall be oriented so that the 48 inch (1220 mm) minimum length is in the direction of the running slope of the curb ramp it serves. The 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum areas and the accessible route shall be permitted to overlap.

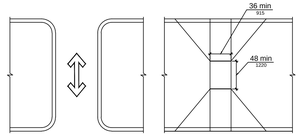


Figure 406.7 Islands in Crossings

GENERAL NOTE --
THIS DATA IS PROVIDED AS AN ADDITIONAL RESOURCE TO THE TEAM OF OWNER, CLIENT, ARCHITECT, ENGINEER AND SPECIFICALLY CONTRACTOR. THIS IS A REFERENCE TOOL PROVIDED TO INFORM ALL PARTIES OF TYPICAL ACCESSIBILITY CONDITIONS AS PUBLISHED PER ADAAG (AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES) EFFECTIVE SEPTEMBER 15, 2010. THE DIAGRAMS PROVIDED ARE DUPLICATIONS OF THE ADAAG STANDARDS AND ARE NOT INDICATIVE OF ALL CONDITIONS AND DO NOT REPRESENT THE ENTIRETY OF THE WRITTEN GUIDELINES AS CONTAINED IN THE PUBLISHED STANDARDS. THE DATA IS IN SUPPORT OF GENERAL ARCHITECTURAL AND ENGINEERING DOCUMENTATION. WHILE THE INFORMATION HERE IS TO ENDEAVOR TO REPRESENT TYPICAL CONDITIONS, IN THE EVENT OF CONFLICT, THE PUBLISHED STANDARDS AND TECHNICAL MEMORANDA SHALL GOVERN.

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COMMISSION NUMBER
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ADA.1

407 Elevators

407.1 General. Elevators shall comply with 407 and with ASME A17.1 (incorporated by reference, see "Referenced Standards" in Chapter 1). They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

EXCEPTION: Existing conditions don't have to comply

407.2.1.2 Size. Call buttons shall be 3/4 inch (19 mm) minimum in the smallest dimension.

407.2.2.1 Visible and Audible Signals. A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call and the car's direction of travel. Where in-car signals are provided, they shall be visible from the floor area adjacent to the hall call buttons.

407.2.2.2 Visible Signals. Visible signal fixtures shall be centered at 72 inches (1830 mm) minimum above the finish floor or ground. The visible signal elements shall be 2 1/2 inches (64 mm) minimum measured along the vertical centerline of the element. Signals shall be visible from the floor area adjacent to the hall call button.

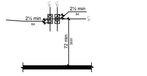

Figure 407.2.2.2 Visible Hall Signals

407.2.3.1 Floor Designation. Floor designations complying with 703.2 and 703.4.1 shall be provided on both jambs of elevator hoistway entrances. Floor designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high minimum. A tactile star shall be provided on both jambs at the main entry level.

Figure 407.2.3.1 Floor Designations on Jambs of Elevator Hoistway Entrances

407.2.3.2 Car Designations. Destination-oriented elevators shall provide tactile car identification complying with 703.2 on both jambs of the hoistway immediately below the floor designation. Car designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high minimum.

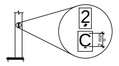

Figure 407.2.3.2 Car Designations on Jambs of Destination-Oriented Elevator Hoistway Entrances

407.3.3.1 Height. The device shall be activated by sensing an obstruction passing through the opening at 5 inches (125 mm) nominal and 29 inches (735 mm) nominal above the finish floor.

407.3.3.3 Duration. Door reopening devices shall remain effective for 20 seconds minimum.

407.3.4 Door and Signal Timing. The minimum acceptable time from notification that a car is answering a call or notification of the car assigned at the means for the entry of destination information until the doors of that car start to close shall be calculated from the following equation:

T = D/(1.5 ft/s) or T = D/(455 mm/s) + 5 seconds minimum where T equals the total time in seconds and D equals the distance (in feet or millimeters) from the point in the lobby or corridor 60 inches (1525 mm) directly in front of the farthest call button controlling that car to the centerline of its hoistway door.

407.3.5 Door Delay. Elevator doors shall remain fully open in response to a car call for 3 seconds

407.3.6 Width. The width of elevator doors shall comply with Table 407.4.1.

407.4 Elevator Car Requirements. Elevator cars shall comply with 407.4.

407.4.1 Car Dimensions. Inside dimensions of elevator cars and clear width of elevator doors shall comply with Table 407.4.1.

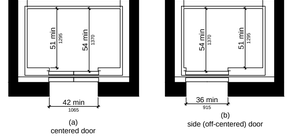

Figure 407.4.1 Elevator Car Dimensions

407.4.3 Platform to Hoistway Clearance. The clearance between the car platform sill and the edge of any hoistway landing shall be 1 1/4 inch (32 mm) maximum.

407.4.4 Leveling. Each car shall be equipped with a self-leveling feature that will automatically bring and maintain the car at floor landings within a tolerance of 1/2 inch (13 mm) under rated loading to zero loading conditions.

407.4.5 Illumination. The level of illumination at the car controls, platform, car threshold and car landing sill shall be 5 foot candles (54 lux) minimum.

407.4.6 Elevator Car Controls. Where provided, elevator car controls shall comply with 407.4.6 and 309.4.

407.4.6.1 Location. Controls shall be located within one of the reach ranges specified in 308.

407.4.6.2 Buttons. Car control buttons with floor designations shall comply with 407.4.6.2 and shall be raised or flush.

407.4.6.2.1 Size. Buttons shall be 3/4 inch (19 mm) minimum in their smallest dimension.

407.4.6.4.1 Height. Emergency control buttons shall have their centerlines 35 inches (890 mm) minimum above the finish floor.

407.4.7.1.1 Type. Control buttons shall be identified by tactile characters complying with 703.2.

407.4.7.1.3 Symbols. The control button for the emergency stop, alarm, door open, door close, main entry floor, and phone, shall be identified with tactile symbols as shown in Table 407.4.7.1.3.

407.4.8.1.1 Size. Characters shall be 1/2 inch (13 mm) high minimum.

407.4.8.2.2 Signal Level. The verbal annunciator shall be 10 dB minimum above ambient, but shall not exceed 80 dB, measured at the annunciator.

407.4.8.2.3 Frequency. The verbal annunciator shall have a frequency of 300 Hz minimum to 3000 Hz maximum.

408 Limited-Use/Limited-Application Elevators

408.1 General. Limited-use/limited-application elevators shall comply with 408 and with ASME A17.1 (incorporated by reference, see "Referenced Standards" in Chapter 1). They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

408.2 Elevator Landings. Landings serving limited-use/limited-application elevators shall comply with

408.2.1 Call Buttons. Elevator call buttons and keypads shall comply with 407.2.1.

408.2.2 Hall Signals. Hall signals shall comply with 407.2.2.

408.2.3 Hoistway Signs. Signs at elevator hoistways shall comply with 407.2.3.1.

408.3 Elevator Doors. Elevator hoistway doors shall comply with 408.3.

408.3.1 Sliding Doors. Sliding hoistway and car doors shall comply with 407.3.1 through 407.3.3 and 408.4.1.

408.3.2 Swinging Doors. Swinging hoistway doors shall open and close automatically and shall comply with 404, 407.3.2 and 408.3.2.

408.3.2.1 Power Operation. Swinging doors shall be power-operated and shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).

408.3.2.2 Duration. Power-operated swinging doors shall remain open for 20 seconds minimum when activated.

408.4 Elevator Cars. Elevator cars shall comply with 408.4.

408.4.1 Car Dimensions and Doors. Elevator cars shall provide a clear width 42 inches (1065 mm) minimum and a clear depth 54 inches (1370 mm) minimum. Car doors shall be positioned at the narrow ends of cars and shall provide 32 inches (815 mm) minimum clear width.

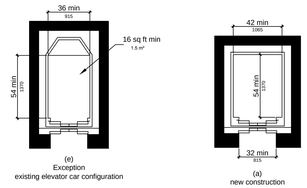

Figure 408.4.1 Limited-Use/Limited-Application (LULA) Elevator Car Dimensions 15 sq ft min

408.4.2 Floor Surfaces. Floor surfaces in elevator cars shall comply with 302 and 303.

408.4.3 Platform to Hoistway Clearance. The platform to hoistway clearance shall comply with 407.4.3.

408.4.4 Leveling. Elevator car leveling shall comply with 407.4.4.

408.4.5 Illumination. Elevator car illumination shall comply with 407.4.5.

408.4.6 Car Controls. Elevator car controls shall comply with 407.4.6. Control panels shall be centered on a side wall.

408.4.7 Designations and Indicators of Car Controls. Designations and indicators of car controls shall comply with 407.4.7.

408.4.8 Emergency Communications. Car emergency signaling devices complying with 407.4.9 shall be provided.

409 Private Residence Elevators

409.1 General. Private residence elevators that are provided within a residential dwelling unit required to provide mobility features complying with 809.2 through 809.4 shall comply with 409 and with ASME A17.1 (incorporated by reference, see "Referenced Standards" in Chapter 1). They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

409.2 Call Buttons. Call buttons shall be 3/4 inch (19 mm) minimum in the smallest dimension and shall comply with 309.

409.3 Elevator Doors. Hoistway doors, car doors, and car gates shall comply with 409.3 and 404.

409.3.1 Power Operation. Elevator car and hoistway doors and gates shall be power operated and shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1). Power operated doors and gates shall remain open for 20 seconds minimum when activated.

409.3.2 Location. Elevator car doors or gates shall be positioned at the narrow end of the clear floor spaces required by 409.4.1.

409.4 Elevator Cars. Private residence elevator cars shall comply with 409.4.

409.4.1 Inside Dimensions of Elevator Cars. Elevator cars shall provide a clear floor space of 36 inches (915 mm) minimum by 48 inches (1220 mm) minimum and shall comply with 305.

409.4.2 Floor Surfaces. Floor surfaces in elevator cars shall comply with 302 and 303.

409.4.3 Platform to Hoistway Clearance. The clearance between the car platform and the edge of any landing sill shall be 1 1/2 inch (38 mm) maximum.

409.4.4 Leveling. Each car shall automatically stop at a floor landing within a tolerance of 1/2 inch (13 mm) under rated loading to zero loading conditions.

409.4.5 Illumination Levels. Elevator car illumination shall comply with 407.4.5.

409.4.6 Car Controls. Elevator car control buttons shall comply with 409.4.6, 309.3, 309.4, and shall be raised or flush.

409.4.6.1 Size. Control buttons shall be 3/4 inch (19 mm) minimum in their smallest dimension.

409.4.6.2 Location. Control panels shall be on a side wall, 12 inches (305 mm) minimum from any adjacent wall.

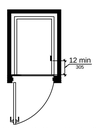

Figure 409.4.6.2 Location of Private Residence Elevator Control Panel

409.4.7 Emergency Communications. Emergency two-way communication systems shall comply with

409.4.7.1 Type. A telephone and emergency signal device shall be provided in the car.

409.4.7.2 Operable Parts. The telephone and emergency signaling device shall comply with 309.3 and 309.4.

409.4.7.3 Compartment. If the telephone or device is in a closed compartment, the compartment door hardware shall comply with 309.

409.4.7.4 Cord. The telephone cord shall be 29 inches (735 mm) long minimum.

410 Platform Lifts

410.1 General. Platform lifts shall comply with ASME A18.1 (1999 edition or 2003 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1). Platform lifts shall not be attendant-operated and shall provide unassisted entry and exit from the lift.

Advisory 410.1 General. Inclined stairway chairlifts and inclined and vertical platform lifts are available for short-distance vertical transportation. Because an accessible route requires an 80 inch (2030 mm) vertical clearance, care should be taken in selecting lifts as they may not be equally suitable for use by people using wheelchairs and people standing. If a lift does not provide 80 inch (2030 mm) vertical clearance, it cannot be considered part of an accessible route in new construction.

The ADA and other Federal civil rights laws require that accessible features be maintained in working order so that they are accessible to and usable by those people they are intended to benefit. Building owners are reminded that the ASME A18 Safety Standard for Platform Lifts and Stairway Chairlifts requires routine maintenance and inspections. Isolated or temporary interruptions in service due to maintenance or repairs may be unavoidable; however, failure to take prompt action to effect repairs could constitute a violation of Federal laws and these requirements.

410.2 Floor Surfaces. Floor surfaces in platform lifts shall comply with 302 and 303.

410.3 Clear Floor Space. Clear floor space in platform lifts shall comply with 305.

410.4 Platform to Runway Clearance. The clearance between the platform sill and the edge of any runway landing shall be 1 inch (32 mm) maximum.

410.5 Operable Parts. Controls for platform lifts shall comply with 309.

410.6 Doors and Gates. Platform lifts shall have low-energy power-operated doors or gates complying with 404.3. Doors shall remain open for 20 seconds minimum. End doors and gates shall provide a clear width 32 inches (815 mm) minimum. Side doors and gates shall provide a clear width 42 inches (1065 mm) minimum.

EXCEPTION: Platform lifts serving two landings maximum and having doors or gates on opposite sides shall be permitted to have self-closing manual doors or gates.

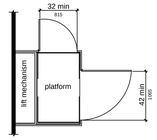

Figure 410.6 Platform Lift Doors and Gates

501 General

501.1 Scope. The provisions of Chapter 5 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

502 Parking Spaces

502.1 General. Car and van parking spaces shall comply with 502. Where parking spaces are marked with lines, width measurements of parking spaces and access aisles shall be made from the centerline of the markings.

EXCEPTION: Where parking spaces or access aisles are not adjacent to another parking space or access aisle, measurements shall be permitted to include the full width of the line defining the parking space or access aisle.

502.2 Vehicle Spaces. Car parking spaces shall be 96 inches (2440 mm) wide minimum and van parking spaces shall be 132 inches (3350 mm) wide minimum, shall be marked to define the width, and shall have an adjacent access aisle complying with 502.3.

EXCEPTION: Van parking spaces shall be permitted to be 96 inches (2440 mm) wide minimum where the access aisle is 96 inches (2440 mm) wide minimum.

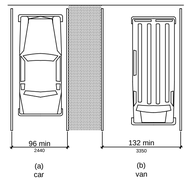

Figure 502.2 Vehicle Parking Spaces

502.3 Access Aisle. Access aisles serving parking spaces shall comply with 502.3. Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.

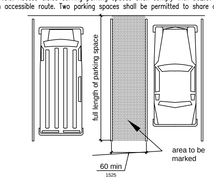

Figure 502.3 Parking Space Access Aisle

502.3.1 Width. Access aisles serving car and van parking spaces shall be 60 inches (1525 mm) wide minimum.

502.3.2 Length. Access aisles shall extend the full length of the parking spaces they serve.

502.3.3 Marking. Access aisles shall be marked so as to discourage parking in them.

502.3.4 Location. Access aisles shall not overlap the vehicular way. Access aisles shall be permitted to be placed on either side of the parking space except for angled van parking spaces which shall have access aisles located on the passenger side of the parking spaces.

502.4 Floor or Ground Surfaces. Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

502.5 Vertical Clearance. Parking spaces for vans and access aisles and vehicular routes serving them shall provide a vertical clearance of 98 inches (2490 mm) minimum.

502.6 Identification. Parking space identification signs shall include the International Symbol of Accessibility complying with 703.7.2.1. Signs identifying van parking spaces shall contain the designation "van accessible." Signs shall be 60 inches (1525 mm) minimum above the finish floor or ground surface measured to the bottom of the sign.

502.7 Relationship to Accessible Routes. Parking spaces and access aisles shall be designed so that cars and vans, when parked, cannot obstruct the required clear width of adjacent accessible routes.

503 Passenger Loading Zones

503.2 Vehicle Pull-Up Space. Passenger loading zones shall provide a vehicular pull-up space 96 inches (2440 mm) wide minimum and 20 feet (6100 mm) long minimum.

503.3 Access Aisle. Passenger loading zones shall provide access aisles complying with 503 adjacent to the vehicle pull-up space. Access aisles shall adjoin an accessible route and shall not overlap the vehicular way.

503.3.1 Width. Access aisles serving vehicle pull-up spaces shall be 60 inches (1525 mm) wide minimum.

503.3.2 Length. Access aisles shall extend the full length of the vehicle pull-up spaces they serve.

503.3.3 Marking. Access aisles shall be marked so as to discourage parking in them.

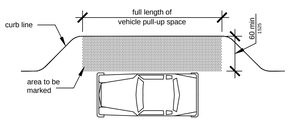

Figure 503.3 Passenger Loading Zone Access Aisle

503.4 Floor and Ground Surfaces. Vehicle pull-up spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the vehicle pull-up space they serve. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

503.5 Vertical Clearance. Vehicle pull-up spaces, access aisles serving them, and a vehicular route from an entrance to the passenger loading zone, and from the passenger loading zone to a vehicular exit shall provide a vertical clearance of 114 inches (2895 mm) minimum.

504 Stairways

504.1 General. Stairs that are part of the means of egress is required to comply with 504

504.2 Treads and Risers. All steps on a flight of stairs shall have uniform riser heights and uniform tread depths. Risers shall be 4 inches (100 mm) high minimum and 7 inches (180 mm) high maximum. Treads shall be 11 inches (280 mm) deep minimum.

504.3 Open Risers. Open risers are not permitted.

504.4 Tread Surface. Stair treads shall comply with 302. Changes in level are not permitted.

504.5 Nosings. The radius of curvature at the leading edge of the tread shall be 1/2 inch (13 mm) maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall extend 1 1/2 inches (38 mm) maximum over the tread below.

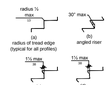

Figure 504.5 Stair Nosings

504.6 Handrails. Stairs shall have handrails complying with 505.

504.7 Wet Conditions. Stair treads and landings subject to wet conditions shall be designed to prevent the accumulation of water.

505 Handrails

505.1 General. Handrails provided along walking surfaces complying with 403, required at ramps complying with 405, and required at stairs complying with 504 shall comply with 505.

Advisory 505.1 General. Handrails are required on ramp runs with a rise greater than 6 inches (150 mm) (see 405.8) and on certain stairways (see 504). Handrails are not required on walking surfaces with running slopes less than 1:20. However, handrails are required to comply with 505 when they are provided on walking surfaces with running slopes less than 1:20 (see 403.6). Sections 505.2, 505.3, and 505.10 do not apply to handrails provided on walking surfaces with running slopes less than 1:20 as these sections only reference requirements for ramps and stairs.

505.2 Where Required. Handrails shall be provided on both sides of stairs and ramps.

505.3 Continuity. Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs and ramps shall be continuous between flights or runs.

505.4 Height. Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.

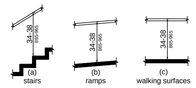

Figure 505.4 Handrail Height

505.5 Clearance. Clearance between handrail gripping surfaces and adjacent surfaces shall be 1 1/2 inches (38 mm) minimum.

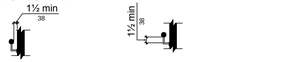

Figure 505.5 Handrail Clearance

Figure 505.6 Horizontal Projections Below Gripping Surface

505.6 Gripping Surface. Handrail gripping surfaces shall be continuous along their length and shall not be obstructed along their tops or sides. The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length. Where provided, horizontal projections shall occur 1 1/2 inches (38 mm) minimum below the bottom of the handrail gripping surface.

505.7.1 Circular Cross Section. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

505.7.2 Non-Circular Cross Sections. Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum.

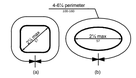

Figure 505.7.2 Handrail Non-Circular Cross Section

505.8 Surfaces. Handrail gripping surfaces and any surfaces adjacent to them shall be free of sharp or abrasive elements and shall have rounded edges.

505.9 Fittings. Handrails shall not rotate within their fittings.

505.10 Handrail Extensions. Handrail gripping surfaces shall extend beyond and in the same direction of stair flights and ramp runs in accordance with 505.10.

505.10.1 Top and Bottom Extension at Ramps. Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.

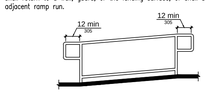

Figure 505.10.1 Top and Bottom Handrail Extension at Ramps

505.10.2 Top Extension at Stairs. At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the first riser nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

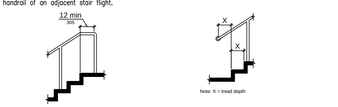

Figure 505.10.2 Top Handrail Extension at Stairs

Figure 505.10.3 Bottom Handrail Extension at Stairs

505.10.3 Bottom Extension at Stairs. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES

602 Drinking Fountains

602.2 Clear Floor Space. Units shall have a clear floor or ground space complying with 305 positioned for a forward approach and centered on the unit. Knee and toe clearance complying with 306 shall be provided.

EXCEPTION: A parallel approach complying with 305 shall be permitted at units for children's use where the spout is 30 inches (760 mm) maximum above the finish floor or ground and is 3 1/2 inches (90 mm) maximum from the front edge of the unit, including bumpers.

602.3 Operable Parts. Operable parts shall comply with 309.

602.4 Spout Height. Spout outlets shall be 36 inches (915 mm) maximum above the finish floor or ground.

602.5 Spout Location. The spout shall be located 15 inches (380 mm) minimum from the vertical support and 5 inches (125 mm) maximum from the front edge of the unit, including bumpers.

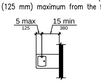

Figure 602.5 Drinking Fountain Spout Location

602.6 Water Flow. The spout shall provide a flow of water 4 inches (100 mm) high minimum and shall be located 5 inches (125 mm) maximum from the front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit. Where spouts are located less than 3 inches (75 mm) of the front of the unit, the angle of the water stream shall be 30 degrees maximum. Where spouts are located between 3 inches (75 mm) and 5 inches (125 mm) maximum from the front of the unit, the angle of the water stream shall be 15 degrees maximum.

602.7 Drinking Fountains for Standing Persons. Spout outlets of drinking fountains for standing persons shall be 38 inches (965 mm) minimum and 43 inches (1090 mm) maximum above the finish floor or ground.

603 Toilet and Bathing Rooms

603.2 Clearances. Clearances shall comply with 603.2.

603.2.1 Turning Space. Turning space complying with 304 shall be provided within the room.

603.2.2 Overlap. Required clear floor spaces, clearance at fixtures, and turning space shall be permitted to overlap.

603.2.3 Door Swing. Doors shall not swing into the clear floor space or clearance required for any fixture. Doors shall be permitted to swing into the required turning space.

603.3 Mirrors. Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the finish floor or ground.

603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604 Water Closets and Toilet Compartments

604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.

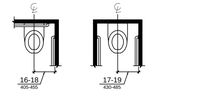

Figure 604.2 Water Closet Location

604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.

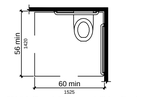

Figure 604.3.1 Size of Clearance at Water Closets

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.

604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall.

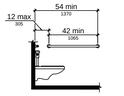

Figure 604.5.1 Side Wall Grab Bar at Water Closets

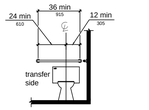

Figure 604.5.2 Rear Wall Grab Bar at Water Closets

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

604.6 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.7 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15 inches (380 mm) minimum and 48 inches (1220 mm) maximum above the finish floor and shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

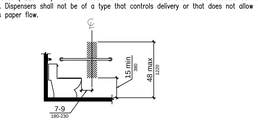

Figure 604.7 Dispenser Outlet Location

604.8 Toilet Compartments. Wheelchair accessible toilet compartments shall meet the requirements of 604.8.1 and 604.8.3. Compartments containing more than one plumbing fixture shall comply with 603. Ambulatory accessible compartments shall comply with 604.8.2 and 604.8.3.

604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply with 604.8.1.

604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 56 inches (1420 mm) deep minimum for wall hung water closets and 59 inches (1500 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 59 inches (1500 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

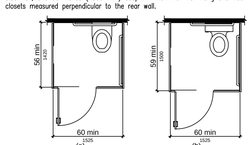

Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment

GENERAL NOTE –
THIS DATA IS PROVIDED AS AN ADDITIONAL RESOURCE TO THE TEAM OF OWNER, CLIENT, ARCHITECT, ENGINEER AND SPECIFICALLY CONTRACTOR. THIS IS A REFERENCE TOOL PROVIDED TO INFORM ALL PARTIES OF TYPICAL ACCESSIBILITY CONDITIONS AS PUBLISHED PER ADAAG (AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES) EFFECTIVE SEPTEMBER 15, 2010. THE DIAGRAMS PROVIDED ARE DUPLICATIONS OF THE ADAAG STANDARDS AND ARE NOT INDICATIVE OF ALL CONDITIONS AND DO NOT REPRESENT THE ENTIRETY OF THE WRITTEN GUIDELINES AS CONTAINED IN THE PUBLISHED STANDARDS. THE DATA IS IN SUPPORT OF GENERAL ARCHITECTURAL AND ENGINEERING DOCUMENTATION. WHILE THE INFORMATION HERE IS TO ENDEAVOR TO REPRESENT TYPICAL CONDITIONS, IN THE EVENT OF CONFLICT, THE PUBLISHED STANDARDS AND TECHNICAL MEMORANDA SHALL GOVERN.

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604.8.1.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 inches (100 mm) maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches (100 mm) maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

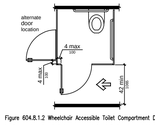


Figure 604.8.1.2 Wheelchair Accessible Toilet Compartment Doors

604.8.1.3 Approach. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.8.1.4 Toe Clearance. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.

EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floor-mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm)deep.

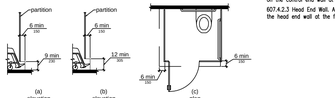


Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance

604.8.1.5 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided and shall be located on the wall closest to the water closet. In addition, a rear wall grab bar complying with 604.5.2 shall be provided.

604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply with 604.8.2.

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) maximum.

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.2.3 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided on both sides of the compartment.

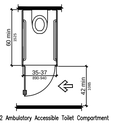


Figure 604.8.2 Ambulatory Accessible Toilet Compartment

604.8.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604.9 Water Closets and Toilet Compartments for Children's Use. Water closets and toilet compartments for children's use shall comply with 604.9.

604.9.1 Location. The water closet shall be located with a wall or partition to the rear and to one side. The centerline of the water closet shall be 12 inches (305 mm) minimum and 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.9.2 Clearance. Clearance around a water closet shall comply with 604.3.

604.9.3 Height. The height of water closets shall be 11 inches (280 mm) minimum and 17 inches (430 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

604.9.4 Grab Bars. Grab bars for water closets shall comply with 604.5.

604.9.5 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.2 and 309.4 and shall be installed 36 inches (915 mm) maximum above the finish floor. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.9.6 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 14 inches (355 mm) minimum and 19 inches (485 mm) maximum above the finish floor. There shall be a clearance of 1 1/2 inches (38 mm) minimum below the grab bar. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

604.9.7 Toilet Compartments. Toilet compartments shall comply with 604.8.

605 Urinals

605.2 Height and Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.

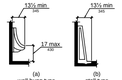


Figure 605.2 Height and Depth of Urinals

605.3 Clear Floor Space. A clear floor or ground space complying with 305 positioned for forward approach shall be provided.

605.4 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.

606 Lavatories and Sinks

606.2 Clear Floor Space. A clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided.

606.3 Height. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground.

606.4 Faucets. Controls for faucets shall comply with 309. Hand-operated metering faucets shall remain open for 10 seconds minimum.

606.5 Exposed Pipes and Surfaces. Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

607 Bathtubs

607.2 Clearance. Clearance in front of bathtubs shall extend the length of the bathtub and shall be 30 inches (760 mm) wide minimum. A lavatory complying with 606 shall be permitted at the control end of the clearance. Where a permanent seat is provided at the head end of the bathtub, the clearance shall extend 12 inches (305 mm) minimum beyond the wall at the head end of the bathtub.

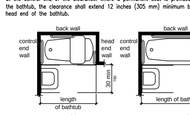


Figure 607.2 Clearance for Bathtubs

607.3 Seat. A permanent seat at the head end of the bathtub or a removable in-tub seat shall be provided. Seats shall comply with 610.

607.4 Grab Bars. Grab bars for bathtubs shall comply with 609 and shall be provided in accordance with 607.4.1 or 607.4.2.

607.4.1 Bathtubs With Permanent Seats. For bathtubs with permanent seats, grab bars shall be provided in accordance with 607.4.1.

607.4.1.1 Back Wall. Two grab bars shall be installed on the back wall, one located in accordance with 609.4 and the other located 8 inches (205 mm) minimum and 10 inches (255 mm) maximum above the rim of the bathtub. Each grab bar shall be installed 15 inches (380 mm) maximum from the head end wall and 12 inches (305 mm) maximum from the control end wall.

607.4.1.2 Control End Wall. A grab bar 24 inches (610 mm) long minimum shall be installed on the control end wall at the front edge of the bathtub.

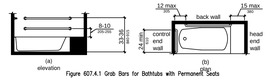


Figure 607.4.1 Grab Bars for Bathtubs with Permanent Seats

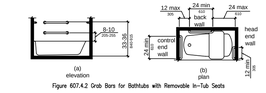


Figure 607.4.2 Grab Bars for Bathtubs with Removable In-Tub Seats

607.4.2 Bathtubs Without Permanent Seats. For bathtubs without permanent seats, grab bars shall comply with 607.4.2.

607.4.2.1 Back Wall. Two grab bars shall be installed on the back wall, one located in accordance with 609.4 and other located 8 inches (205 mm) minimum and 10 inches (255 mm) maximum above the rim of the bathtub. Each grab bar shall be 24 inches (610 mm) long minimum and shall be installed 24 inches (610 mm) maximum from the head end wall and 12 inches (305 mm) maximum from the control end wall.

607.4.2.2 Control End Wall. A grab bar 24 inches (610 mm) long minimum shall be installed on the control end wall at the front edge of the bathtub.

607.4.2.3 Head End Wall. A grab bar 12 inches (305 mm) long minimum shall be installed on the head end wall at the front edge of the bathtub.

Figure 607.5 Bathtub Control Location

607.5 Controls. Controls, other than drain stoppers, shall be located on an end wall. Controls shall be between the bathtub rim and grab bar, and between the open side of the bathtub and the centerline of the width of the bathtub. Controls shall comply with 309.4.

607.6 Shower Spray Unit and Water. A shower spray unit with a hose 59 inches (1500 mm) long minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Bathtub shower spray units shall deliver water that is 120°F (49°C) maximum.

607.7 Bathtub Enclosures. Enclosures for bathtubs shall not obstruct controls, faucets, shower and spray units or obstruct transfer from wheelchairs onto bathtub seats or tubs bathtubs. Enclosures on bathtubs shall not have tracks installed on the rim of the open face of the bathtub.

608 Shower Compartments

608.2 Size and Clearances for Shower Compartments. Shower compartments shall have sizes and clearances complying with 608.2.

608.2.1 Transfer Type Shower Compartments. Transfer type shower compartments shall be 36 inches (915 mm) by 36 inches (915 mm) clear inside dimensions measured at the center points of opposing sides and shall have a 36 inch (915 mm) wide minimum entry on the face of the shower compartment. Clearance of 36 inches (915 mm) wide minimum by 48 inches (1220 mm) long minimum measured from the control wall shall be provided.

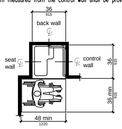


Figure 608.2.1 Transfer Type Shower Compartment Size and Clearance

608.2.2 Standard Roll-in Type Shower Compartments. Standard roll-in type shower compartments shall be 30 inches (760 mm) wide minimum by 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides and shall have a 60 inches (1525 mm) wide minimum entry on the face of the shower compartment.

608.2.2.1 Clearance. A 30 inch (760 mm) wide minimum by 60 inch (1525 mm) long minimum clearance shall be provided adjacent to the open face of the shower compartment.

Figure 608.2.2 Standard Roll-in Type Shower Compartment Size and Clearance

608.2.3 Alternate Roll-in Type Shower Compartments. Alternate roll-in type shower compartments shall be 36 inches (915 mm) wide and 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides. A 36 inch (915 mm) wide minimum entry shall be provided at one end of the long side of the compartment.

Figure 608.2.3 Alternate Roll-in Type Shower Compartment Size and Clearance

608.3 Grab Bars. Grab bars shall comply with 609 and shall be provided in accordance with 608.3. Where multiple grab bars are used, required horizontal grab bars shall be installed at the same height above the finish floor.

608.3.1 Transfer Type Shower Compartments. In transfer type compartments, grab bars shall be provided across the control wall and back wall to a point 18 inches (455 mm) from the control wall.

Figure 608.3.1 Grab Bars for Transfer Type Showers

608.3.2 Standard Roll-in Type Shower Compartments. Where a seat is provided in standard roll-in type shower compartments, grab bars shall be provided on the back wall and the side wall opposite the seat. Grab bars shall not be provided above the seat. Where a seat is not provided in standard roll-in type shower compartments, grab bars shall be provided on three walls. Grab bars shall be installed 6 inches (150 mm) maximum from adjacent walls.

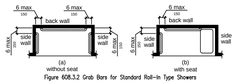


Figure 608.3.2 Grab Bars for Standard Roll-in Type Showers

608.3.3 Alternate Roll-in Type Shower Compartments. In alternate roll-in type shower compartments, grab bars shall be provided on the back wall and the side wall farthest from the compartment entry. Grab bars shall not be provided above the seat. Grab bars shall be installed 6 inches (150 mm) maximum from adjacent walls.

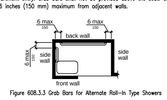


Figure 608.3.3 Grab Bars for Alternate Roll-in Type Showers

608.4 Seats. A folding or non-folding seat shall be provided in transfer type shower compartments. A folding seat shall be provided in roll-in type showers required in transient lodging guest rooms with mobility features complying with 806.2. Seats shall comply with 610.

608.5 Controls. Controls, faucets, and shower spray units shall comply with 309.4.

608.5.1 Transfer Type Shower Compartments. In transfer type shower compartments, the controls, faucets, and shower spray unit shall be installed on the side wall opposite the seat 38 inches (965 mm) minimum and 48 inches (1220 mm) maximum above the shower floor and shall be located on the control wall 15 inches (380 mm) maximum from the centerline of the seat toward the shower opening.

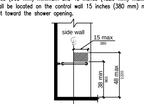


Figure 608.5.1 Transfer Type Shower Compartment Control Location

608.5.2 Standard Roll-in Type Shower Compartments. In standard roll-in type shower compartments, the controls, faucets, and shower spray unit shall be located above the grab bar, but no higher than 48 inches (1220 mm) above the shower floor. Where a seat is provided, the controls, faucets, and shower spray unit shall be located on the back wall adjacent to the seat wall and shall be located 27 inches (685 mm) maximum from the seat wall.

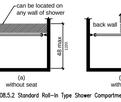


Figure 608.5.2 Standard Roll-in Type Shower Compartment Control Location

608.5.3 Alternate Roll-in Type Shower Compartments. In alternate roll-in type shower bar, but no higher than 48 inches (1220 mm) above the shower floor. Where a seat is provided, the controls, faucets, and shower spray unit shall be located on the side wall

shower spray unit shall be installed on the side wall farthest from the compartment entry.

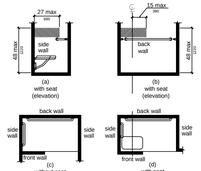


Figure 608.5.3 Alternate Roll-in Type Shower Compartment Control Location

608.6 Shower Spray Unit and Water. A shower spray unit with a hose 59 inches (1500 mm) long minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Shower spray units shall deliver water that is 120°F (49°C) maximum.

608.7 Thresholds. Thresholds in roll-in type shower compartments shall be 1/2 inch (13 mm) high maximum in accordance with 303. In transfer type shower compartments, thresholds 1/2 inch (13 mm) high maximum shall be beveled, rounded, or vertical.

608.8 Shower Enclosures. Enclosures for shower compartments shall not obstruct controls, faucets, and shower spray units or obstruct transfer from wheelchairs onto shower seats.

609 Grab Bars

609.1 General. Grab bars in toilet facilities and bathing facilities shall comply with 609.

609.2 Cross Section. Grab bars shall have a cross section complying with 609.2.1 or 609.2.2.

609.2.1 Circular Cross Section. Grab bars with circular cross sections shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

609.2.2 Non-Circular Cross Section. Grab bars with non-circular cross sections shall have a cross-section dimension of 2 inches (51 mm) maximum and a perimeter dimension of 4 inches (100 mm) minimum and 4.8 inches (120 mm) maximum.

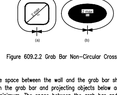


Figure 609.2.2 Grab Bar Non-Circular Cross Section

609.3 Spacing. The space between the wall and the grab bar shall be 1 1/2 inches (38 mm). The space between the grab bar and projecting objects below and at the ends shall be 1 1/2 inches (38 mm) minimum. The space between the grab bar and projecting objects above shall be 12 inches (305 mm) minimum.

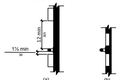


Figure 609.3 Spacing of Grab Bars

609.4 Position of Grab Bars. Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that at water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lower grab bar on the back wall of a bathtub shall comply with 607.4.1.1 or 607.4.2.1.

609.5 Surface Hazards. Grab bars and any wall or other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.

609.6 Fittings. Grab bars shall not rotate within their fittings.

609.7 Installation. Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor space.

609.8 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the grab bar, fastener, mounting device, or supporting structure.

610 Seats

610.2 Bathtub Seats. The top of bathtub seats shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. The depth of a removable in-tub seat shall be 15 inches (380 mm) minimum and 16 inches (405 mm) maximum. The seat shall be capable of secure placement. Permanent seats at the head end of the bathtub shall be 15 inches (380 mm) deep minimum and shall extend from the back wall to or beyond the outer edge of the bathtub.

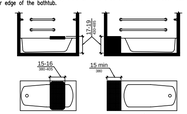


Figure 610.2 Bathtub Seats

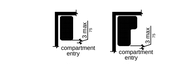


Figure 610.3 Extent of Seat

610.3 Shower Compartment Seats. Where a seat is provided in a standard roll-in shower compartment, it shall be a folding type, shall be installed on the side wall adjacent to the controls, and shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. Where a seat is provided in an alternate roll-in type shower compartment, it shall be a folding type, shall be installed on the front wall opposite the back wall, and shall extend from the adjacent side wall to a point within 3 inches (75 mm) of the compartment entry. In transfer-type showers, the seat shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. The top of the seat shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. Seats shall comply with 610.1 or 610.3.2.

Figure 610.3.1 Rectangular Shower Seat

610.3.1 Rectangular Seats. The rear edge of a rectangular seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the seat wall. The side edge of the seat shall be 1 1/2 inches (38 mm) maximum from the adjacent wall.

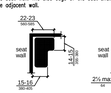


Figure 610.3.2 L-Shaped Shower Seat

610.3.2 L-Shaped Seats. The rear edge of an L-shaped seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the seat wall. The rear edge of the "L" portion of the seat shall be 1 1/2 inches (38 mm) maximum from the wall and the front edge shall be 14 inches (355 mm) minimum and 15 inches (380 mm) maximum from the wall. The end of the "L" shall be 22 inches (560 mm) minimum and 23 inches maximum (585 mm) from the main seat wall.

610.4 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the seat, fastener, mounting device, or supporting structure.

611 Washing Machines and Clothes Dryers

611.2 Clear Floor Space. A clear floor or ground space complying with 305 positioned for parallel approach shall be provided. The clear floor or ground space shall be centered on the appliance.

611.3 Operable Parts. Operable parts, including doors, lint screens, and detergent and bleach compartments shall comply with 309.

611.4 Height. Top loading machines shall have the door to the laundry compartment located 36 inches (915 mm) maximum above the finish floor. Front loading machines shall have the bottom of the opening to the laundry compartment located 15 inches (380 mm) minimum and 36 inches (915 mm) maximum above the finish floor.

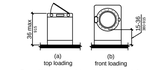


Figure 611.4 Height of Laundry Compartment Opening

612 Saunas and Steam Rooms

612.2 Bench. Where seating is provided in saunas and steam rooms, at least one bench shall comply with 803. Doors shall not swing into the clear floor space required by 803.2.

612.3 Turning Space. A turning space complying with 304 shall be provided within saunas and steam rooms

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

702 Fire Alarm Systems

702.1 General. Fire alarm systems shall have permanently installed audible and visible alarms complying with NFPA 72 (1999 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1), except that the maximum allowable sound level of audible notification appliances complying with section 4-3.2.1 of NFPA 72 (1999 edition) shall have a sound level no more than 110 dB at the minimum hearing distance from the audible appliance. In addition, alarms in guest rooms required to provide communication features shall comply with sections 4-3 and 4-4 of NFPA 72 (1999 edition) or sections 7.4 and 7.5 of NFPA 72 (2002 edition).

703 Signs

703.1 General. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

703.2 Raised Characters. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4.

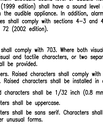
703.2.1 Depth. Raised characters shall be 1/32 inch (0.8 mm) minimum above their background.

703.2.2 Case. Characters shall be uppercase.

703.2.3 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.2.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.2.5 Character Height. Minimum character height shall comply with Table 703.2.5. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. Character height shall be based on the uppercase letter "I".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RENOVATION SCOPE OF WORK

MARK	SPACE	REMOVE EXISTING CARPET	INSTALL NEW LVT	INSTALL NEW CARPET	REMOVE EXISTING DOOR, LOCKSET, INSTALL NEW DOOR, LOCKSET	MODIFY BATHTUB	REMOVE EXISTING TOILET, INSTALL NEW TOILET	REMOVE EXISTING HAND HELD SHOWER HEAD, INSTALL NEW HAND HELD SHOWER HEAD	INSTALL NEW SHOWER CURTAIN ROD AND CURTAINS	REMOVE EXISTING FAUCET, INSTALL NEW FAUCET	REMOVE EXISTING BATHROOM DOOR AND HARDWARE	INSTALL NEW SLIDING DOOR AND HARDWARE AT BATHROOM	INSTALL NEW CEILING FAN	REMOVE EXISTING LIGHT FIXTURE, INSTALL NEW LIGHT FIXTURE	INSTALL NEW BEDROOM DOOR AND HARDWARE	REMOVE EXISTING PTAC UNIT, INSTALL NEW PTAC UNIT	INSTALL NEW GRAB BARS	INSTALL NEW BATHROOM MIRROR	REMOVE EXISTING BATHTUB, INSTALL NEW SHOWER UNIT	MODIFY EXISTING WALL FRAMING AS REQUIRED FOR NEW PLAN	INTERIOR WALL PAINTING, REPAINT AND PAINT TO MATCH	INSTALL NEW ENTRANCE THRESHOLD AS NECESSARY	INSTALL NEW BATHROOM THRESHOLD AS NECESSARY	REMARKS
101	STUDIO UNIT	●	●		●	●	●	●		●			●	●	●								●	●		
102	STUDIO UNIT	●	●		●	●	●	●		●			●	●	●								●	●		
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104	STUDIO UNIT				●	●	●	●		●			●	●	●								●	●		
106	STUDIO UNIT				●	●	●	●		●			●	●	●								●	●		
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108	STUDIO UNIT				●	●	●	●		●			●	●	●		●						●	●		
109	STUDIO UNIT				●	●	●	●		●			●	●	●								●	●		
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401	ONE BEDROOM	●			●	●	●	●	●			●	●	●									●	●		
402	ONE BEDROOM	●			●	●	●	●	●			●	●	●									●	●		
403	ONE BEDROOM	●			●	●	●	●	●			●	●	●									●	●		
404	ONE BEDROOM				●	●	●	●	●			●	●	●									●	●		
405	ONE BEDROOM				●	●	●	●	●			●	●	●									●	●		
406	ONE BEDROOM				●	●	●	●	●			●	●	●									●	●		
407	ONE BEDROOM				●	●	●	●	●			●	●	●									●	●		
408	ONE BEDROOM	●	●		●	●	●	●	●			●	●	●									●	●		
409	ONE BEDROOM				●	●	●	●	●			●	●	●									●	●		
410	ONE BEDROOM				●	●	●	●	●			●	●	●									●	●		
411	ONE BEDROOM				●	●	●	●	●			●	●	●									●	●		
412	ONE BEDROOM				●	●	●	●	●			●	●	●									●	●		
413	ONE BEDROOM	●	●		●	●	●	●	●			●	●	●									●	●		
415	ONE BEDROOM																									

NOTE

1. CONTRACTOR SHALL VERIFY ALL QUANTITIES AND ELEMENTS WITH ARCHITECTURAL PLANS

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ALLEGHANY COUNTY, VIRGINIA

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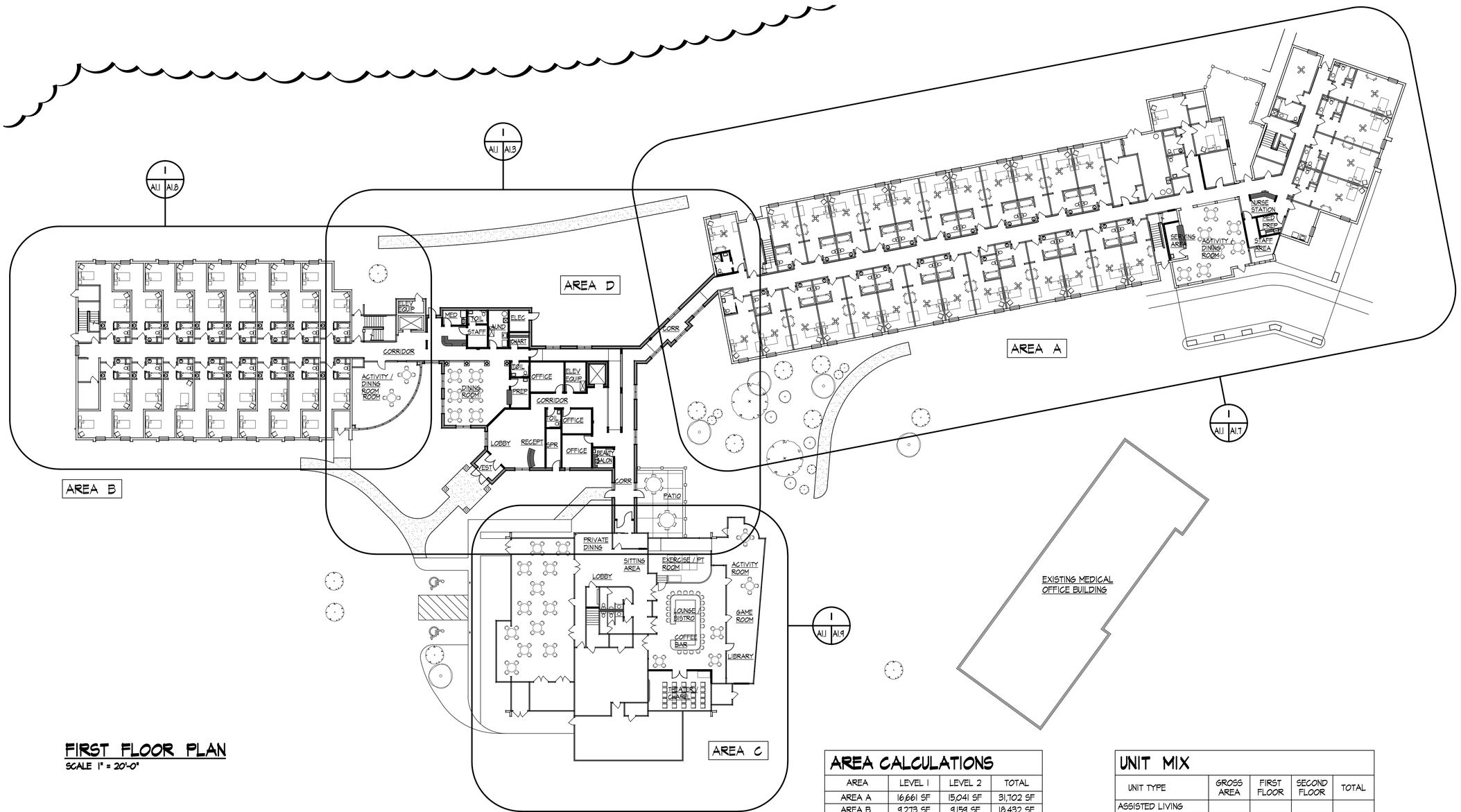

FIRST FLOOR PLAN

SCALE 1" = 20'-0"

AREA CALCULATIONS

AREA	LEVEL 1	LEVEL 2	TOTAL
AREA A	16,661 SF	15,041 SF	31,702 SF
AREA B	9,273 SF	9,159 SF	18,432 SF
AREA C	8,563 SF	0 SF	8,563 SF
AREA D	4,969 SF	914 SF	5,883 SF
TOTAL	39,466 SF	25,114 SF	64,580 SF

UNIT MIX

UNIT TYPE	GROSS AREA	FIRST FLOOR	SECOND FLOOR	TOTAL
ASSISTED LIVING				
STUDIO	307 SF	0	5	5
ONE BEDROOM	624 SF	0	23	23
ASSISTED LIVING (MC)				
STUDIO	307 SF	31	0	31
SEMI- PRIVATE	362 SF	16 (32 BEDS)	0	16 (32 BEDS)
TWO BEDROOM	563 SF	1 (2 BEDS)	0	1 (2 BEDS)
TOTAL		48	28	76

ACCESSIBLE UNITS REQUIRED: 4

ACCESSIBLE UNITS PROVIDED: 5 (UNITS 124, 127, 136, 145, 228)

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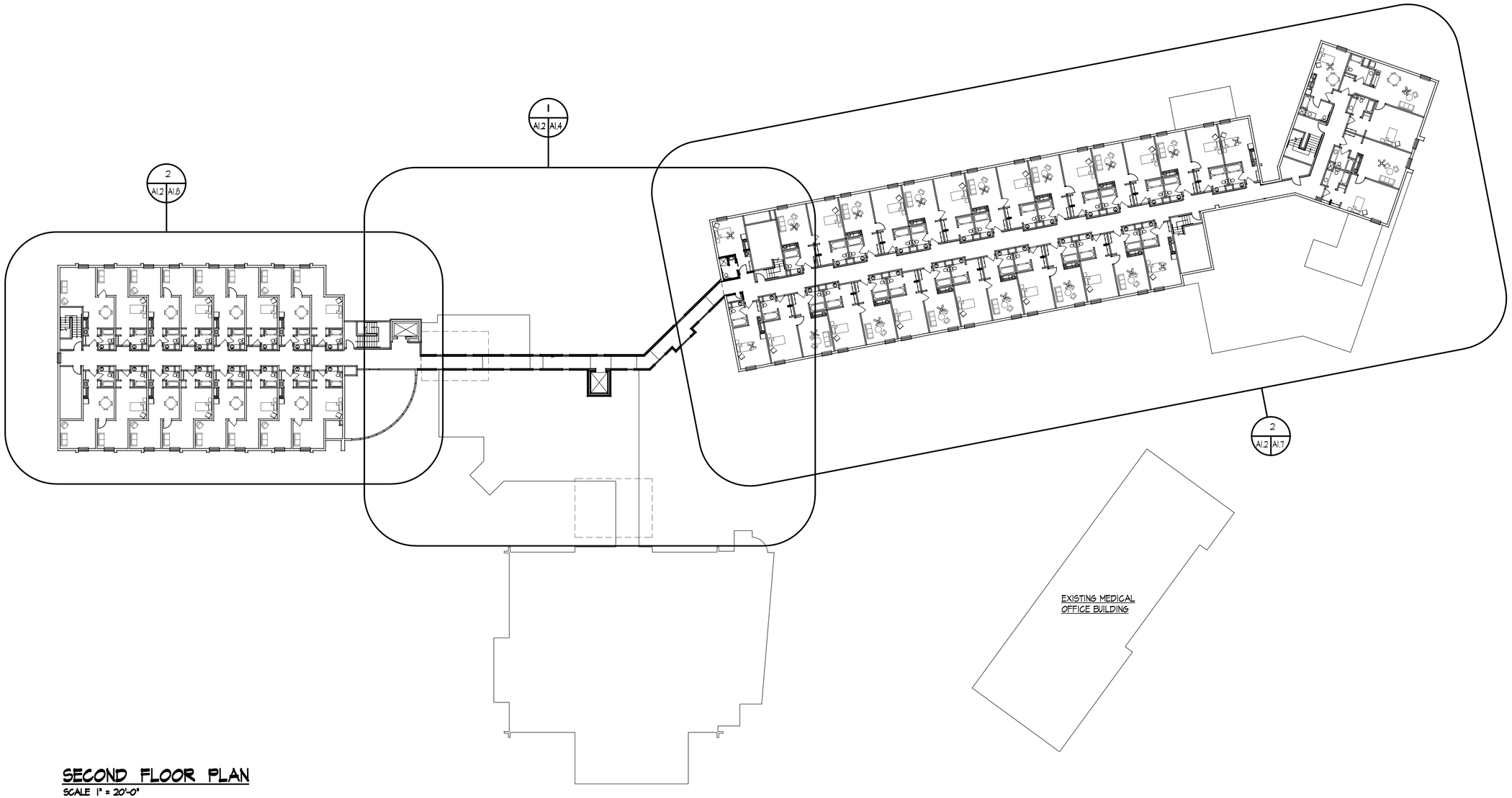

SECOND FLOOR PLAN

SCALE 1" = 20'-0"

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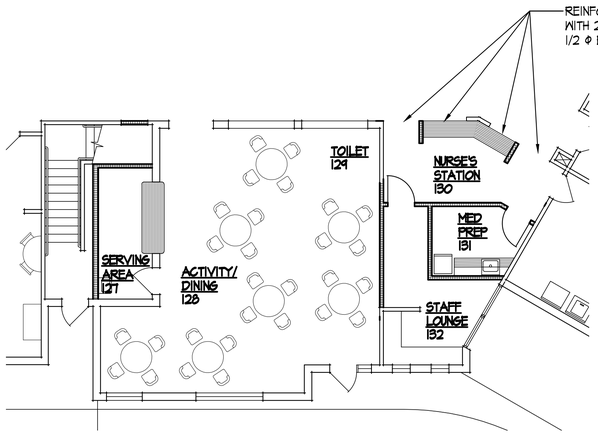
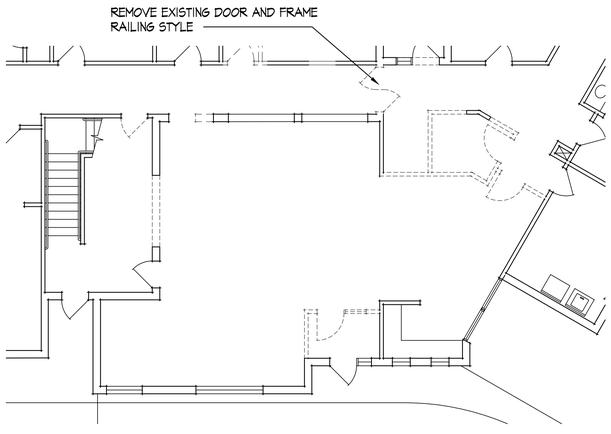


AREA A - NURSE'S STATION

SCALE 1/8" = 1'-0"

2 A1.1 | A1.3



AREA A - NURSE'S STATION DEMOLITION PLAN

SCALE 1/8" = 1'-0"

2 A1.3 | A1.9

LEGEND

ELEMENTS TO BE REMOVED (REPAIR SURROUNDING SURFACES AS NECESSARY) - - - - - - - -

ELEMENTS TO REMAIN ————————

NEW ELEMENTS ▮▮▮▮▮▮▮▮▮▮▮▮

REINFORCE STRUCTURE AT CEILING JOIST WITH 2x10 EACH SIDE THROUGH BOLTED 1/2 ø BOLTS AT 1'-0" OC.

EXISTING STRUCTURE | NEW CONSTRUCTION

RAISE LOWER FLOOR LEVEL (100.0') TO MATCH CORRIDOR FLOOR LEVEL (102.4')

OTIS HOLELESS HYDRAULIC 3500LB CAPACITY ELEVATOR OR EQUAL STRETCHER ACCESS REQUIRED.

NEW CONSTRUCTION | EXISTING STRUCTURE

NEW CONSTRUCTION | EXISTING STRUCTURE

ACTIVITY / DINING ROOM 126

MED PREP 124 58 SF

TOILET 123

NURSE'S STATION 125 70 SF

STAFF 122 57 SF

LAUNDRY SERVICES 121 120 SF

MECH/ELEC ROOM 120 69 SF

CHARTING 119 48 SF

CORRIDOR 121

CORRIDOR 118

RAMP 1/12 SLOPE

CORRIDOR 112

TOILET 116

OFFICE 115 165 SF

ELEVATOR EQUIPMENT 114 97 SF

ACTIVITY / DINING ROOM 118 748 SF

SERVING AREA 117 81 SF

TOILET 105

OFFICE 107 119 SF

SPRINK. ROOM 104 95 SF

OFFICE 108 154 SF

BEAUTY SALON 109 67 SF

CORRIDOR 106

CORRIDOR 111

CORRIDOR 110

LOBBY 102

RECEPT 103

VESTIBULE 101

PATIO

96.0'

102.4'

100.2'

98.5'

FLOOR PLAN LEVEL ONE - AREA D

SCALE 1/8" = 1'-0"

1 A1.1 | A1.3

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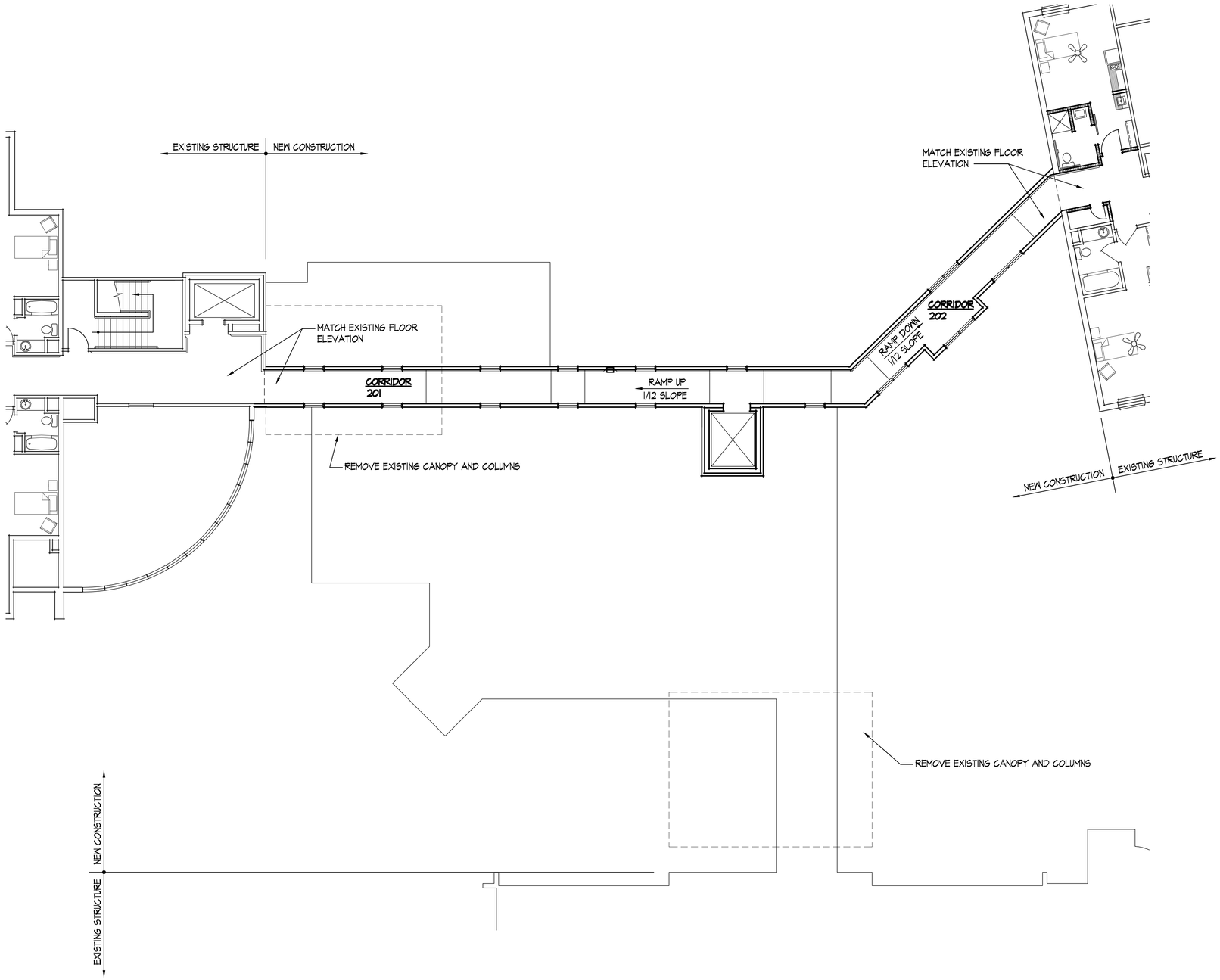

FLOOR PLAN LEVEL TWO - AREA D

SCALE 1/8" = 1'-0"

1 / A1.2 | A1.4

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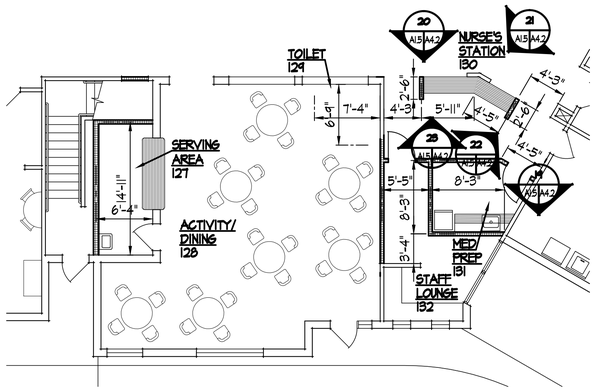
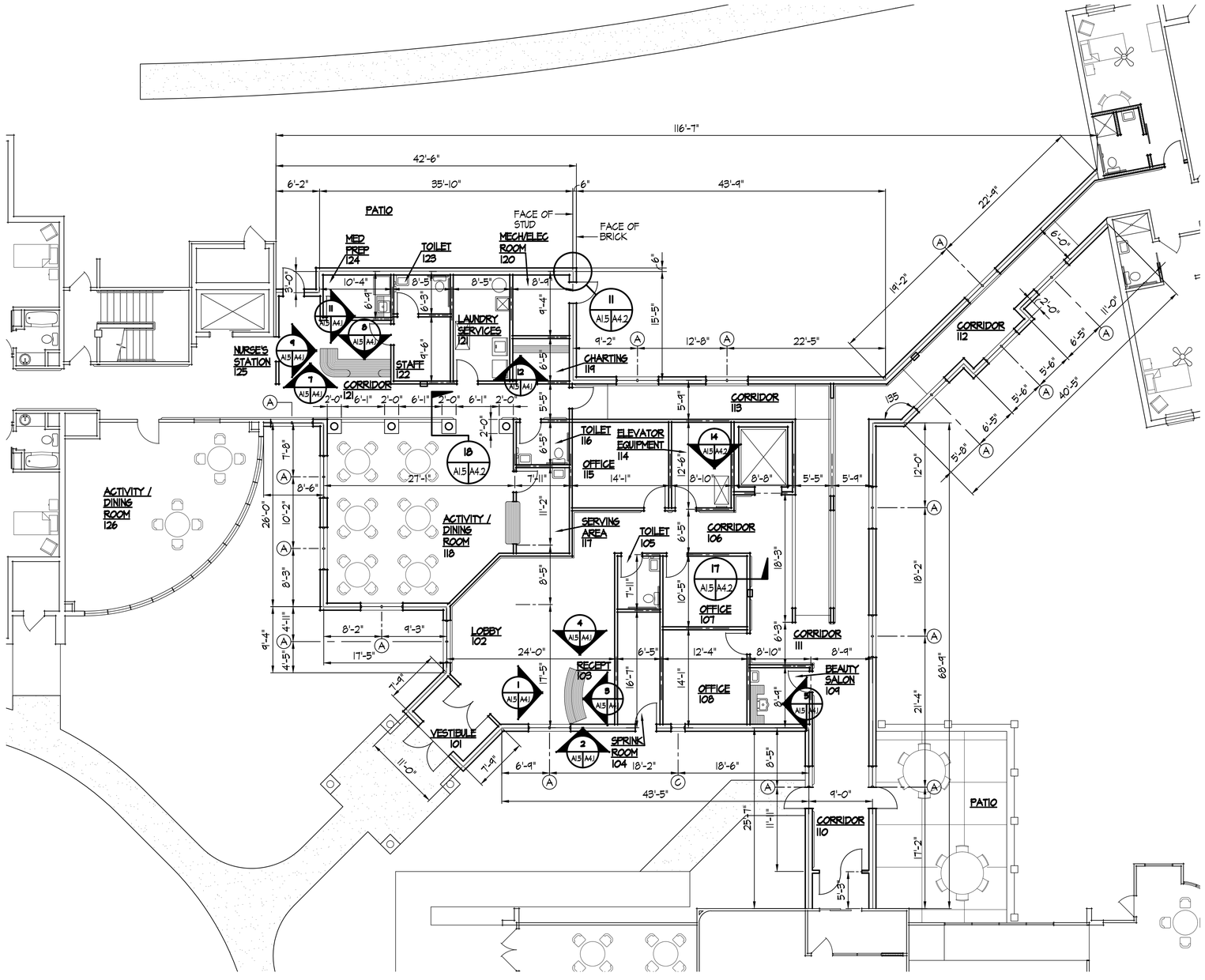


AREA A - NURSE'S STATION (2 / A1.7 | A1.5)

SCALE 1/8" = 1'-0"



DIMENSION PLAN LEVEL ONE - AREA D (1 / A1.1 | A1.5)

SCALE 1/8" = 1'-0"

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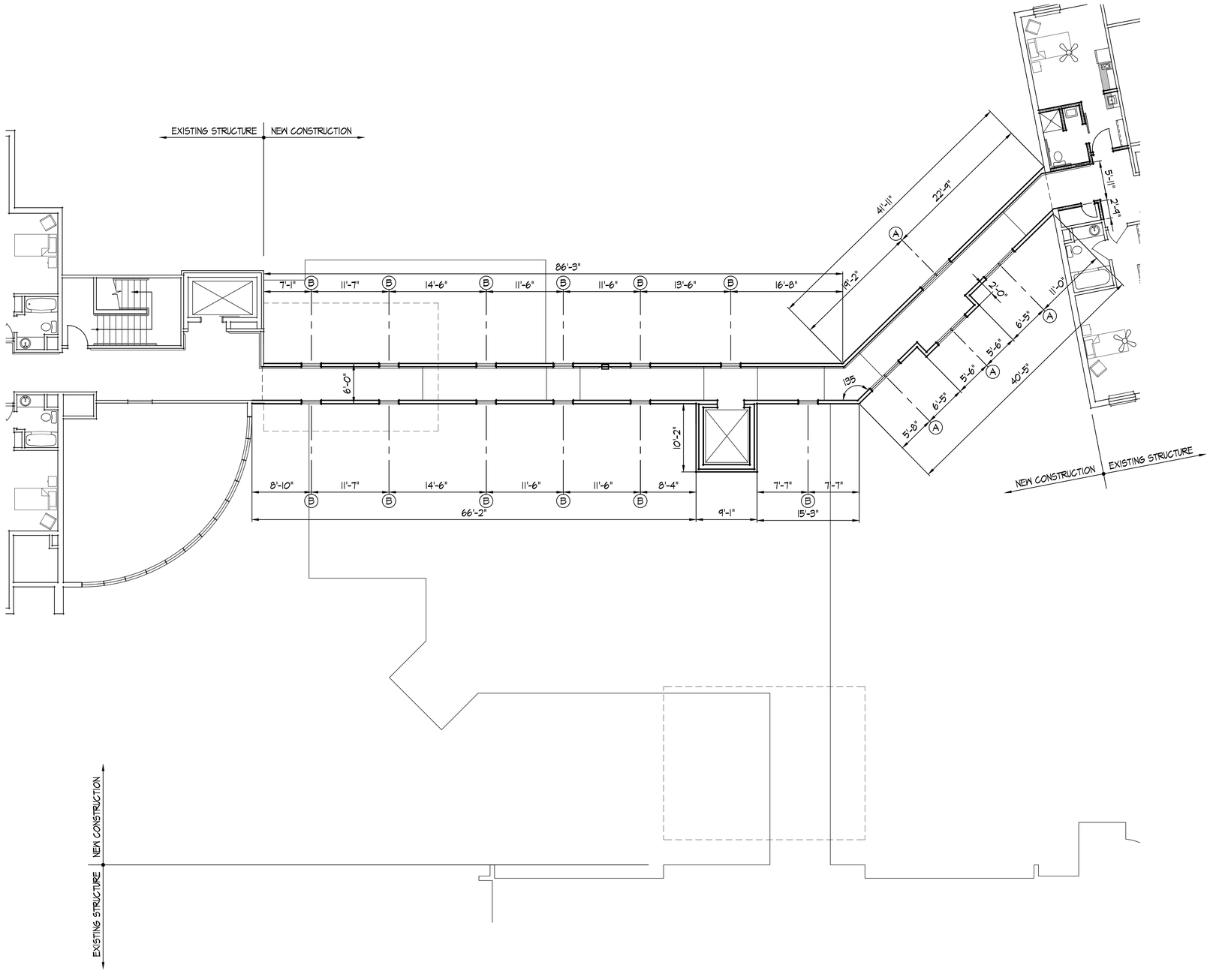

DIMENSION PLAN LEVEL TWO - AREA D

SCALE 1/8" = 1'-0"

1 / A1.2 | A1.6

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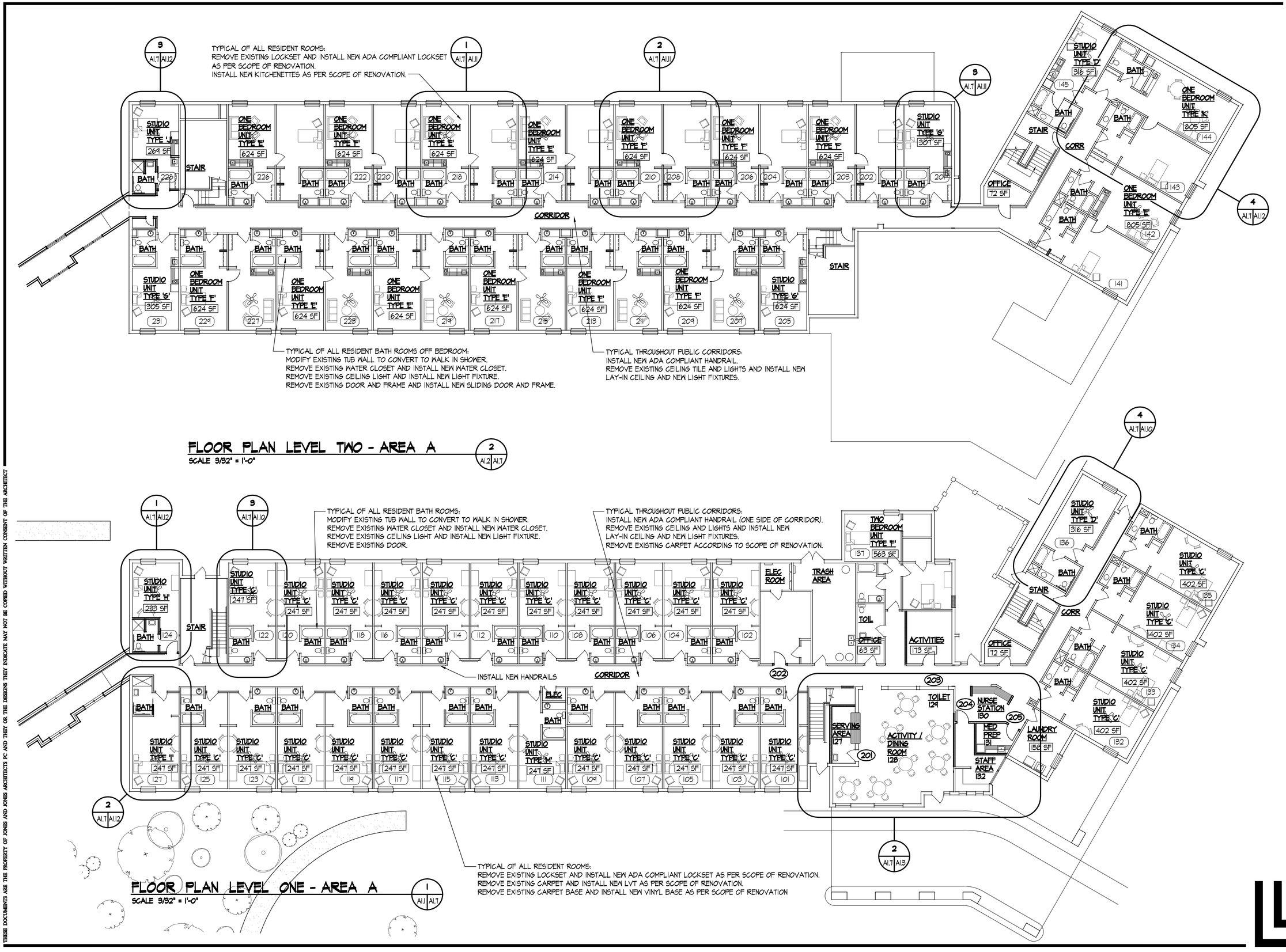

FLOOR PLAN LEVEL TWO - AREA A

SCALE 3/32" = 1'-0"

FLOOR PLAN LEVEL ONE - AREA A

SCALE 3/32" = 1'-0"

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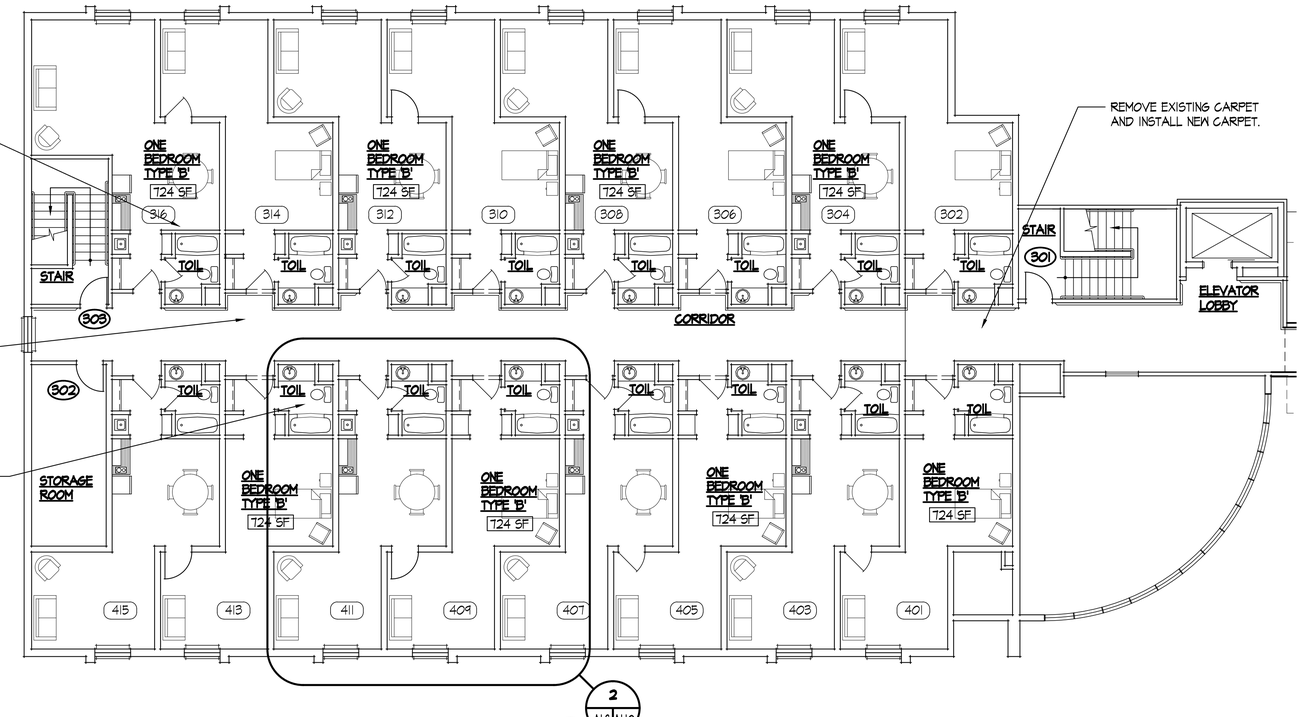
TYPICAL OF ALL RESIDENT ROOMS:
REMOVE EXISTING LOCKSET AND INSTALL NEW ADA COMPLIANT LOCKSET AS PER SCOPE OF RENOVATION.
INSTALL NEW KITCHENETTES AS PER SCOPE OF RENOVATION.

TYPICAL THROUGHOUT PUBLIC CORRIDORS:
INSTALL NEW ADA COMPLIANT HANDRAILS (ONE SIDE OF CORRIDOR).
REMOVE EXISTING LIGHTS. INSTALL NEW LAY-IN CEILING TILE AND NEW LIGHTS.

TYPICAL OF ALL RESIDENT BATH ROOMS OFF BEDROOMS:
MODIFY EXISTING TUB WALL TO CONVERT TO WALK IN SHOWER.
REMOVE EXISTING WATER CLOSET AND INSTALL NEW WATER CLOSET.
REMOVE EXISTING CEILING LIGHT AND INSTALL NEW LIGHT FIXTURE.
REMOVE EXISTING DOOR.



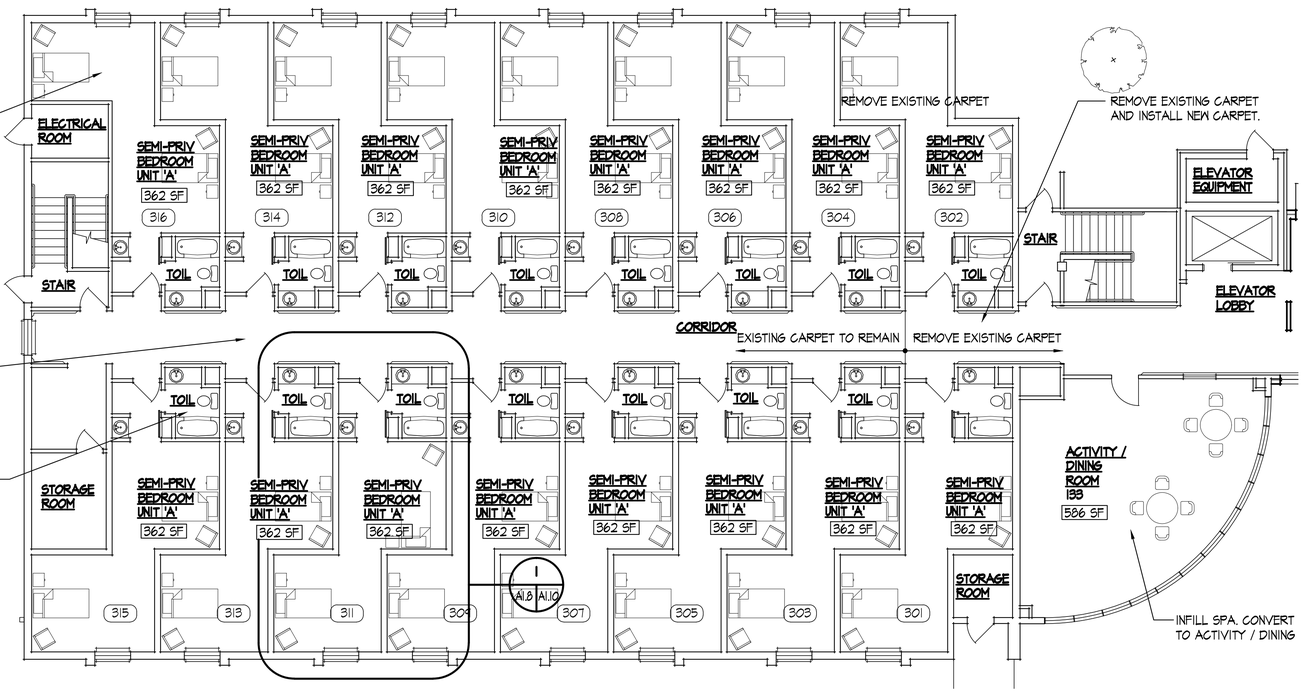
FLOOR PLAN LEVEL TWO - AREA B

SCALE 1/8" = 1'-0"

TYPICAL OF ALL RESIDENT ROOMS:
REMOVE EXISTING LOCKSET AND INSTALL NEW ADA COMPLIANT LOCKSET AS PER SCOPE OF RENOVATION
REMOVE EXISTING CARPET AND INSTALL NEW LVT. AS PER SCOPE OF RENOVATION
REMOVE EXISTING CARPET BASE AND INSTALL NEW VINYL BASE AS PER SCOPE OF RENOVATION

TYPICAL THROUGHOUT PUBLIC CORRIDORS:
INSTALL NEW ADA COMPLIANT HANDRAILS (ONE SIDE OF CORRIDOR).
REMOVE EXISTING CEILING TILE AND LIGHTS. INSTALL NEW LAY-IN CEILING AND LIGHT FIXTURES.

TYPICAL OF ALL RESIDENT BATH ROOMS:
MODIFY EXISTING TUB WALL TO CONVERT TO WALK IN SHOWER.
REMOVE EXISTING WATER CLOSET AND INSTALL NEW WATER CLOSET.
REMOVE EXISTING CEILING LIGHT AND INSTALL NEW LIGHT FIXTURE.
REMOVE EXISTING DOOR.



FLOOR PLAN LEVEL ONE - AREA B

SCALE 1/8" = 1'-0"

1
A1.1 A1.8

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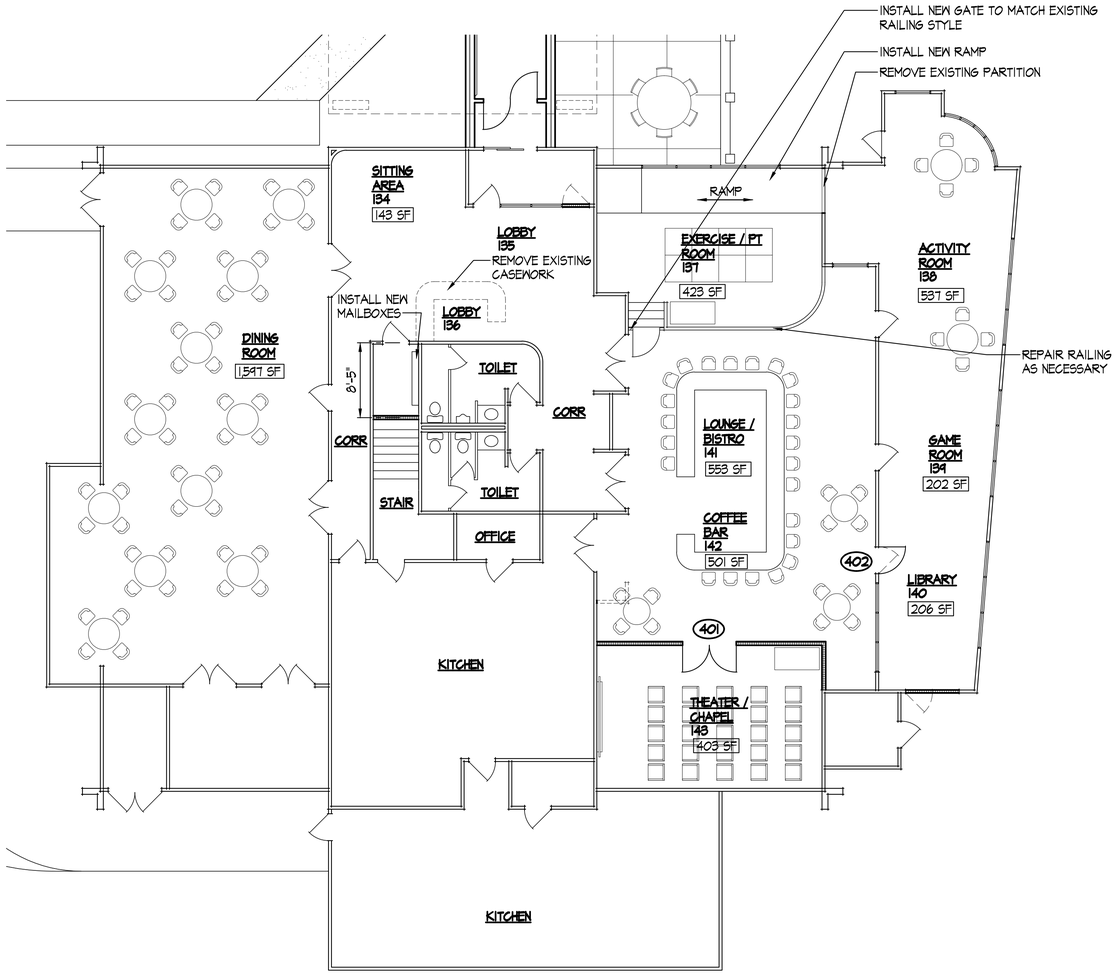

FLOOR PLAN LEVEL ONE - AREA C

SCALE 1/8" = 1'-0"

1 A1.1 | A1.9

LEGEND

ELEMENTS TO BE REMOVED (REPAIR SURROUNDING SURFACES AS NECESSARY) - - - - - -

ELEMENTS TO REMAIN ———

NEW ELEMENTS ▒▒▒▒▒▒

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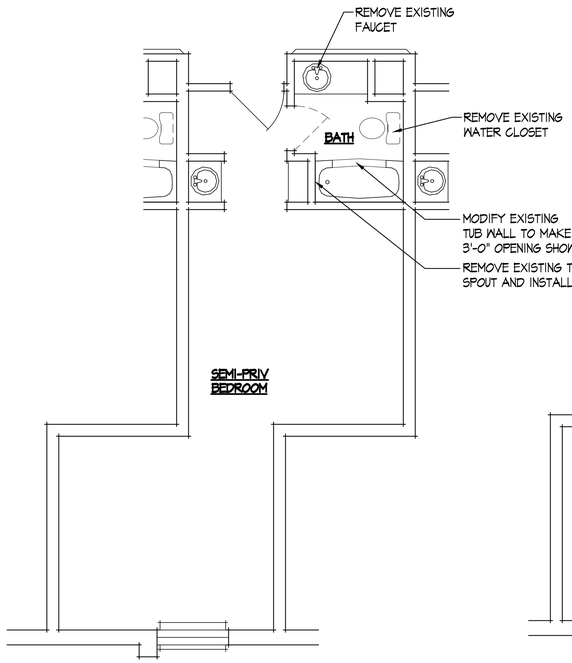
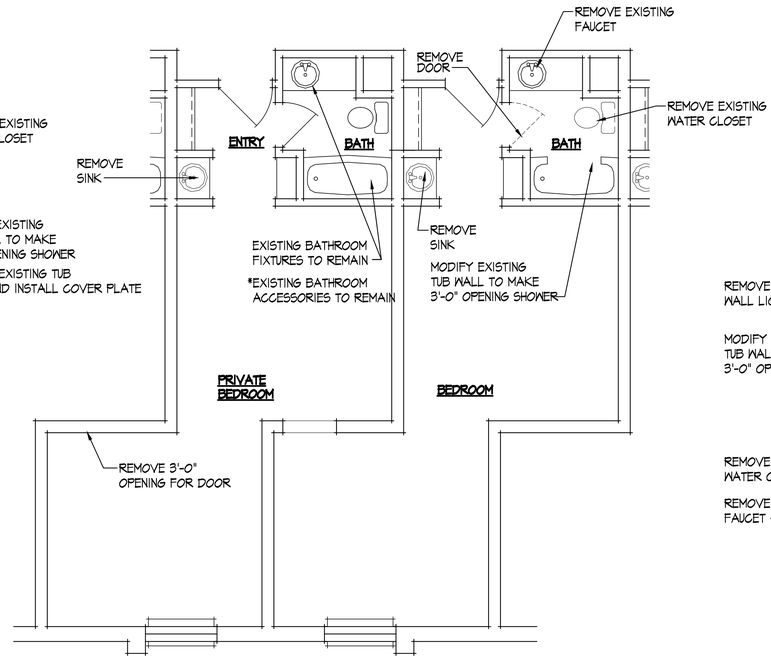


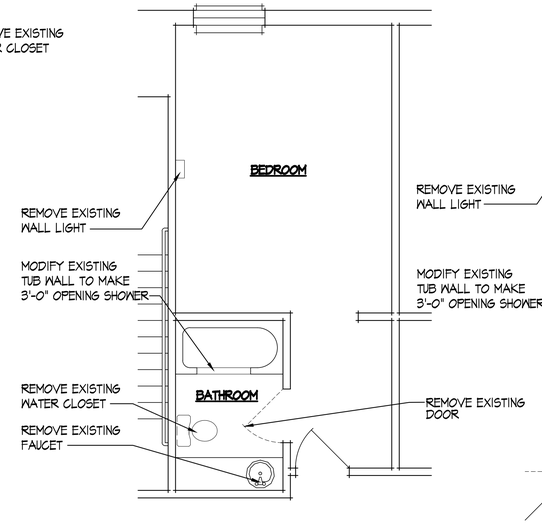
UNIT TYPE A - TWO BED UNIT DEMOLITION PLAN (1 / A1.8 | A1.10)

SCALE 1/4" = 1'-0"



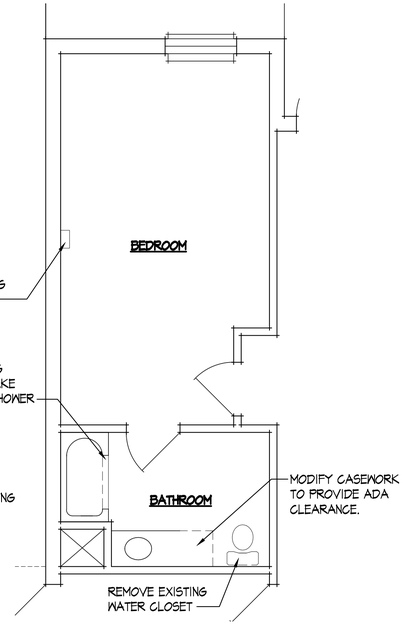
UNIT TYPE B - ONE BEDROOM DEMOLITION PLAN (2 / A1.8 | A1.10)

SCALE 1/4" = 1'-0"



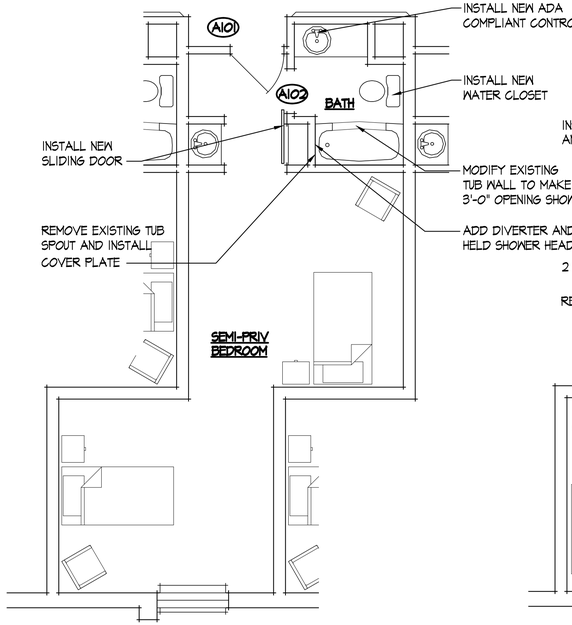
UNIT TYPE C - STUDIO DEMOLITION PLAN (3 / A1.7 | A1.10)

SCALE 1/4" = 1'-0"



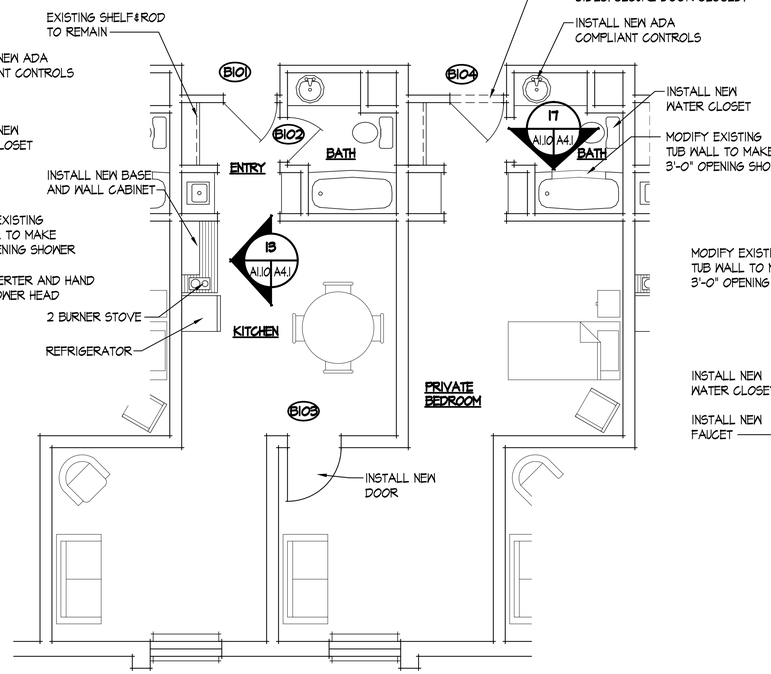
UNIT TYPE D - STUDIO DEMOLITION PLAN (4 / A1.7 | A1.10)

SCALE 1/4" = 1'-0"



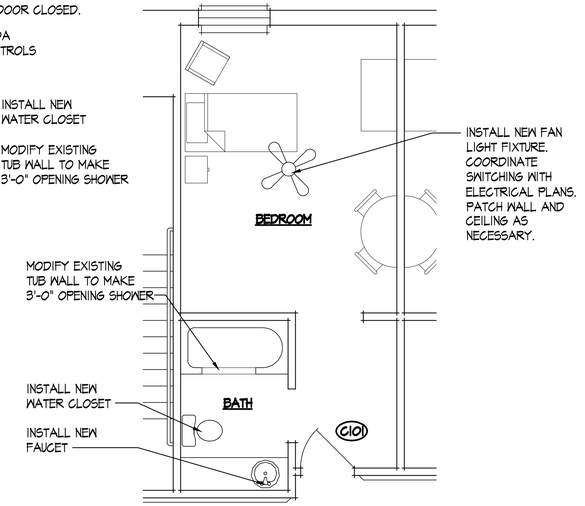
UNIT TYPE A - TWO BED UNIT RENOVATION PLAN (1 / A1.8 | A1.10)

SCALE 1/4" = 1'-0"



UNIT TYPE B - ONE BEDROOM RENOVATION PLAN (2 / A1.8 | A1.10)

SCALE 1/4" = 1'-0"

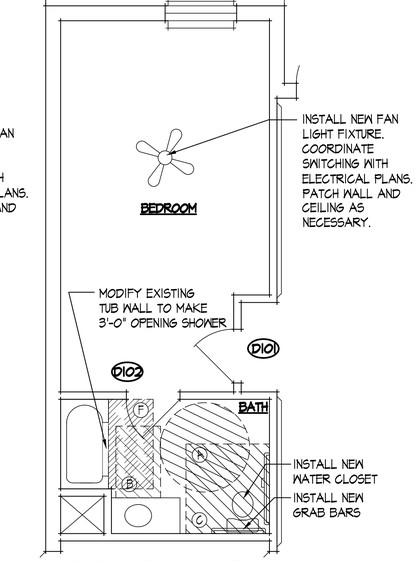


UNIT TYPE C - STUDIO RENOVATION PLAN (3 / A1.7 | A1.10)

SCALE 1/4" = 1'-0"

APPROACH LEGEND

- (A) - 60" TURNING RADIUS
- (B) - 30" x 48" CLEARANCE AT FIXTURE
- (C) - 60" x 56" CLEARANCE AT TOILET
- (D) - 60" x 54" CLEARANCE AT 3'-0" WIDE DOOR (FRONT APPROACH, PULL SIDE)
- (E) - 60" x 48" CLEARANCE AT 3'-0" WIDE DOOR (FRONT APPROACH, PUSH SIDE)
- (F) - 60" x 30" CLEARANCE AT TUB AND ROLL-IN SHOWER
- (G) - 36" x 48" CLEARANCE AT TRANSFER SHOWER



UNIT TYPE D - STUDIO RENOVATION PLAN (4 / A1.7 | A1.10)

SCALE 1/4" = 1'-0"

ACCESSIBLE UNIT

LEGEND

ELEMENTS TO BE REMOVED (REPAIR SURROUNDING SURFACES AS NECESSARY) - - - - - - -

ELEMENTS TO REMAIN ———

NEW ELEMENTS

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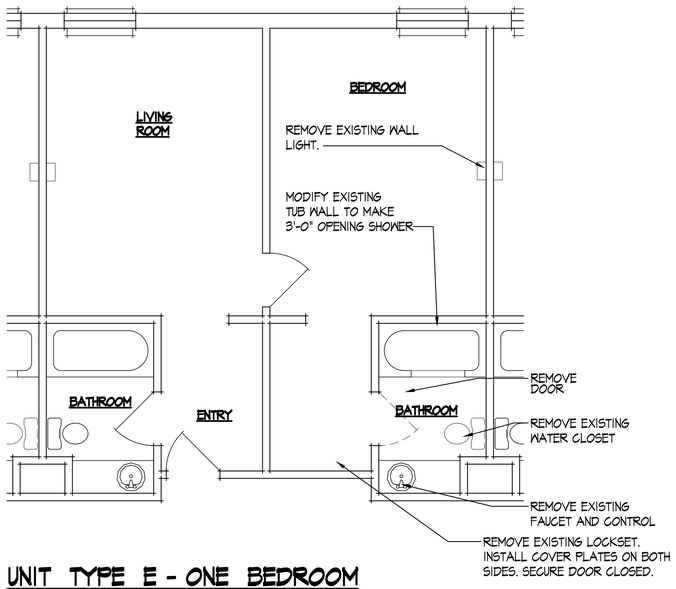
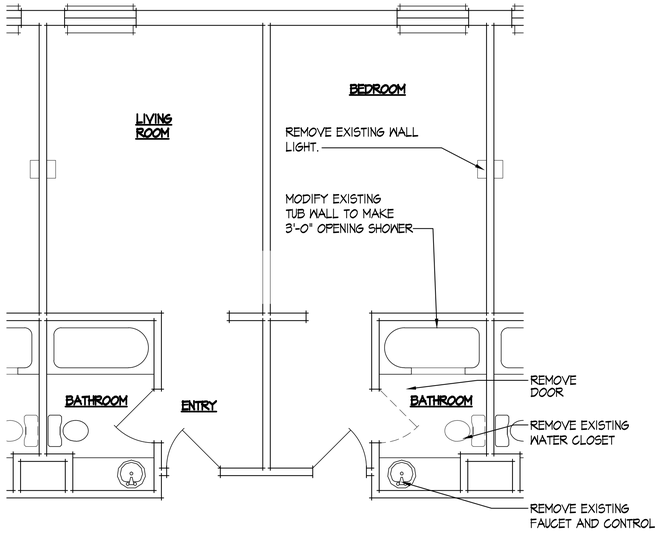


UNIT TYPE E - ONE BEDROOM DEMOLITION PLAN

1 — A1.1 | A1.11

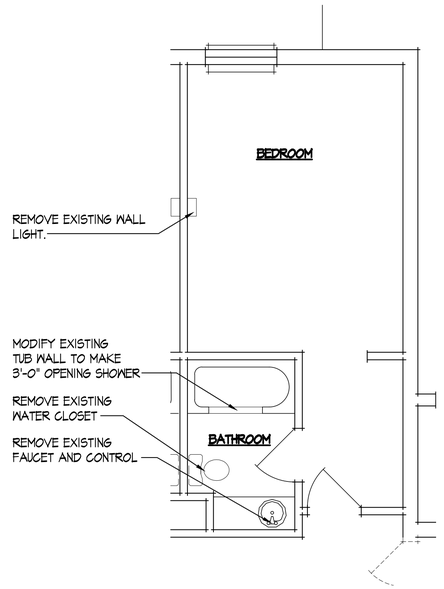
SCALE 1/4" = 1'-0"



UNIT TYPE F - ONE BEDROOM DEMOLITION PLAN

2 — A1.1 | A1.11

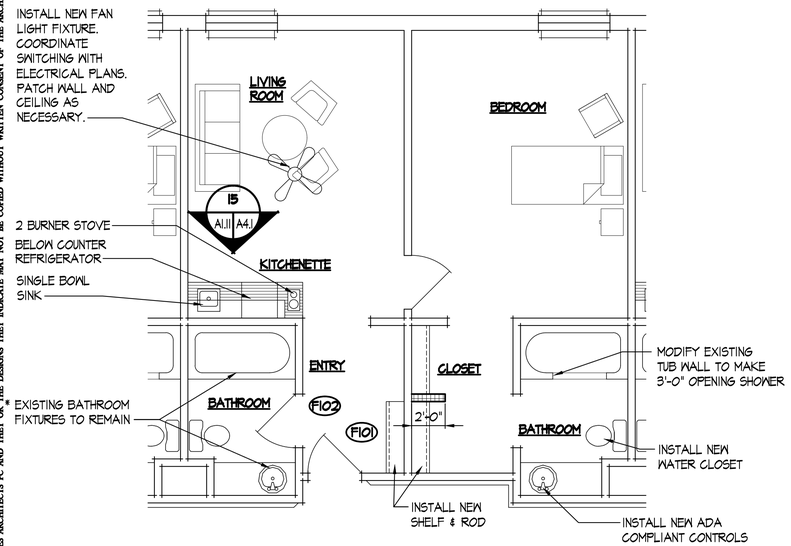
SCALE 1/4" = 1'-0"



UNIT TYPE G - STUDIO DEMOLITION PLAN

3 — A1.1 | A1.11

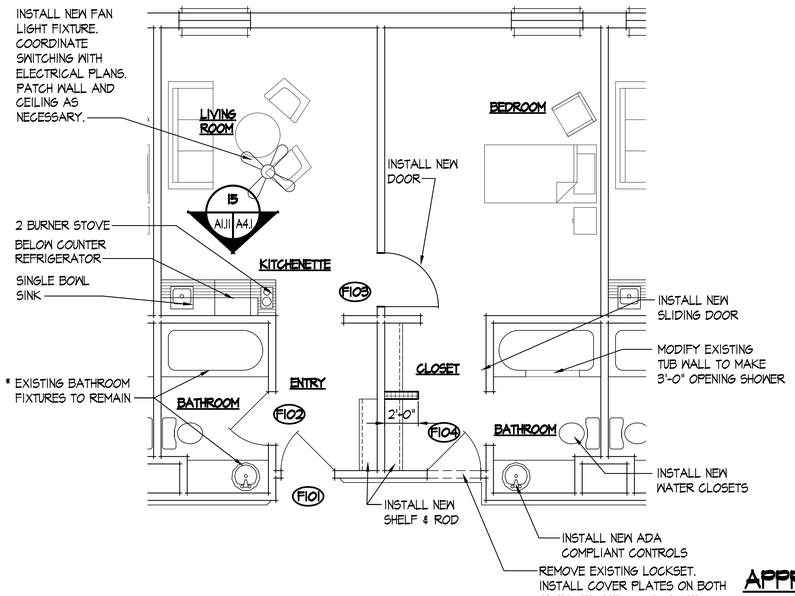
SCALE 1/4" = 1'-0"



UNIT TYPE E - ONE BEDROOM RENOVATION PLAN

1 — A1.1 | A1.11

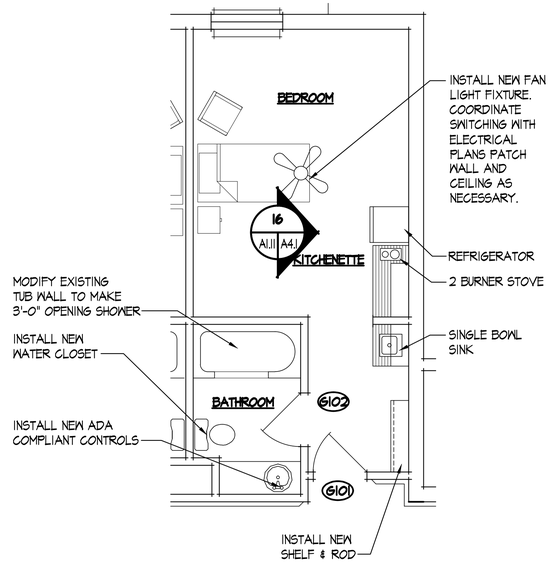
SCALE 1/4" = 1'-0"



UNIT TYPE F - ONE BEDROOM RENOVATION PLAN

2 — A1.1 | A1.11

SCALE 1/4" = 1'-0"



UNIT TYPE G - STUDIO RENOVATION PLAN

3 — A1.1 | A1.11

SCALE 1/4" = 1'-0"

APPROACH LEGEND

- (A) - 60" TURNING RADIUS
- (B) - 30" x 48" CLEARANCE AT FIXTURE
- (C) - 60" x 56" CLEARANCE AT TOILET
- (D) - 60" x 54" CLEARANCE AT 3'-0" WIDE DOOR (FRONT APPROACH, PULL SIDE)
- (E) - 60" x 48" CLEARANCE AT 3'-0" WIDE DOOR (FRONT APPROACH, PUSH SIDE)
- (F) - 60" x 30" CLEARANCE AT TUB AND ROLL-IN SHOWER
- (G) - 36" x 48" CLEARANCE AT TRANSFER SHOWER

LEGEND

ELEMENTS TO BE REMOVED (REPAIR SURROUNDING SURFACES AS NECESSARY)

ELEMENTS TO REMAIN

NEW ELEMENTS

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MERU SENIOR HEALTH AND WELLNESS CAMPUS

ALLEGHANY COUNTY, VIRGINIA

PROJECT ARCHITECT
RLJ JR.
TECHNICIANS
JMB
COMMISSION NUMBER
2751
DATE
15 OCT 2018

A1.11

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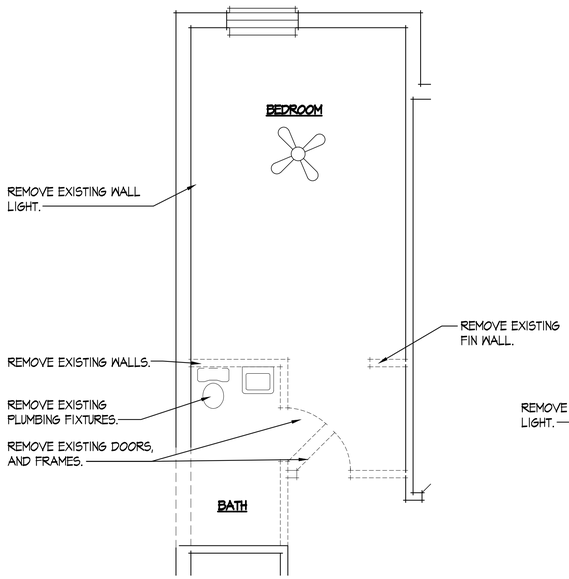
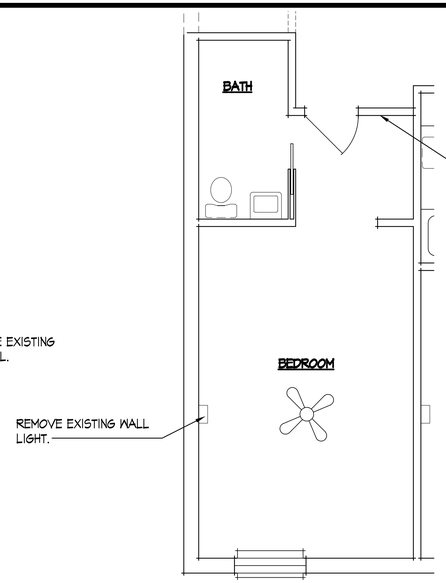


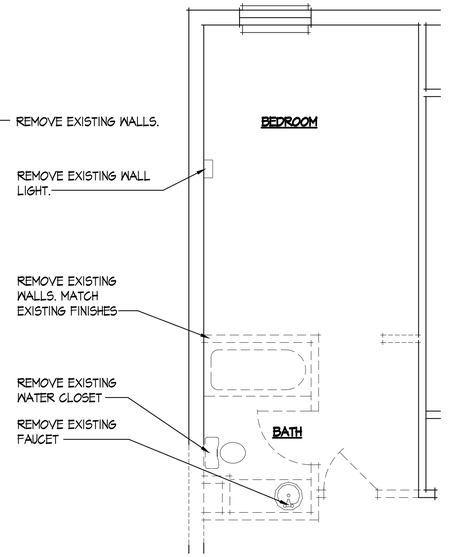
UNIT TYPE H - STUDIO
DEMOLITION PLAN
SCALE 1/4" = 1'-0"

1 | A1.1 | A1.12



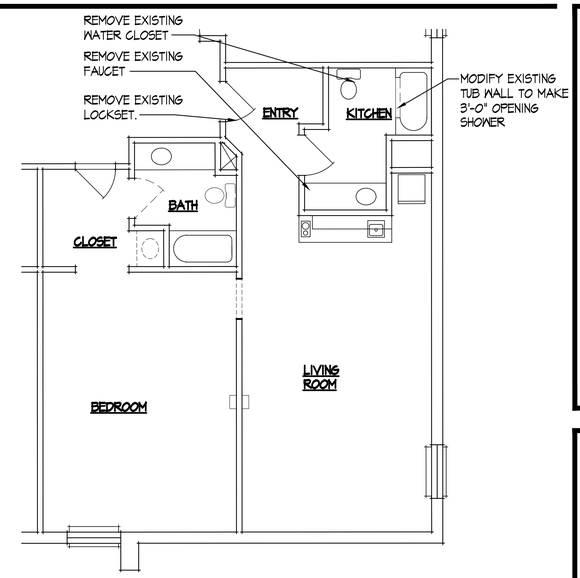
UNIT TYPE I - STUDIO
DEMOLITION PLAN
SCALE 1/4" = 1'-0"

2 | A1.1 | A1.12



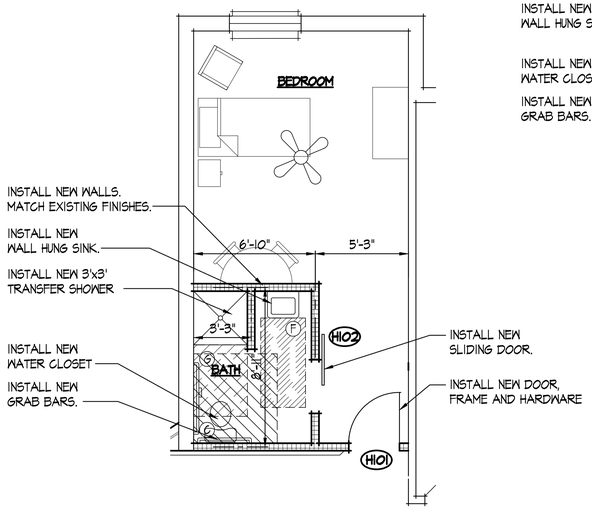
UNIT TYPE J - STUDIO
DEMOLITION PLAN
SCALE 1/4" = 1'-0"

3 | A1.1 | A1.12



UNIT TYPE K - ONE BEDROOM
DEMOLITION PLAN
SCALE 3/16" = 1'-0"

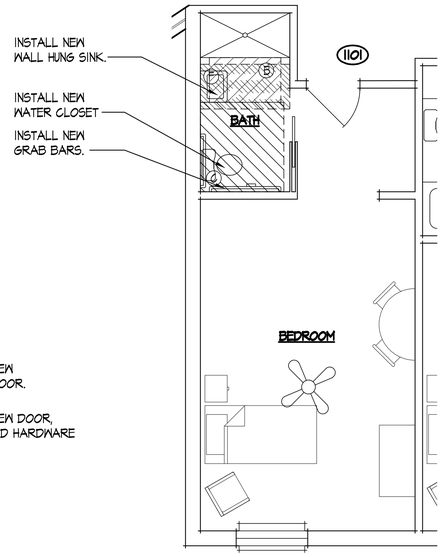
4 | A1.1 | A1.12



UNIT TYPE H - STUDIO
RENOVATION PLAN
SCALE 1/4" = 1'-0"

1 | A1.1 | A1.12

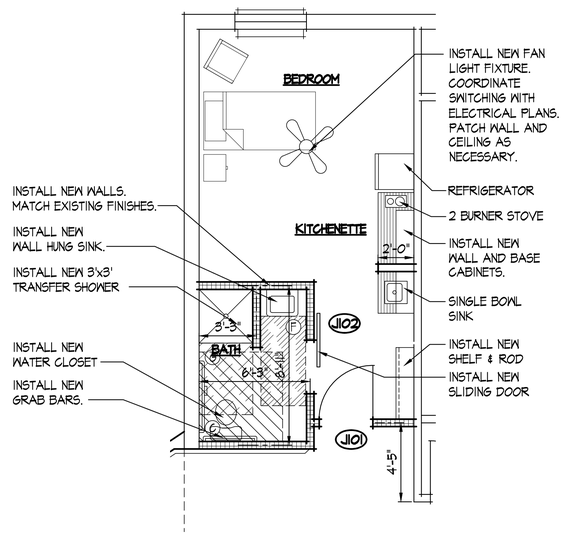
ACCESSIBLE UNIT



UNIT TYPE I - STUDIO
RENOVATION PLAN
SCALE 1/4" = 1'-0"

2 | A1.1 | A1.12

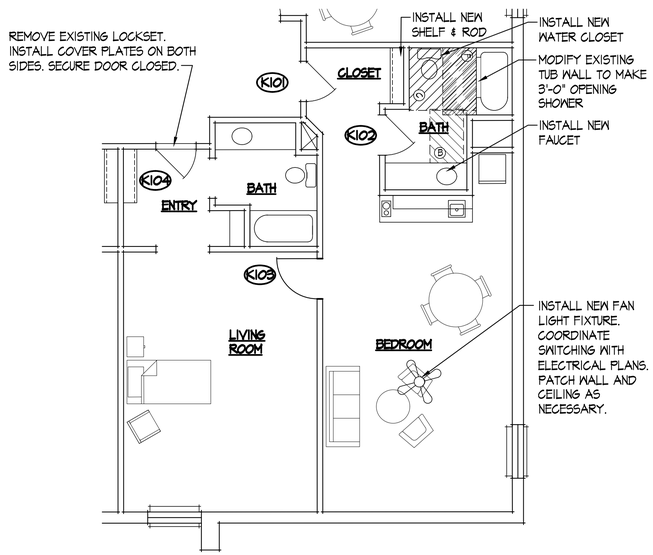
ACCESSIBLE UNIT



UNIT TYPE J - STUDIO
RENOVATION PLAN
SCALE 1/4" = 1'-0"

3 | A1.1 | A1.12

ACCESSIBLE UNIT



UNIT TYPE K - ONE BEDROOM
RENOVATION PLAN
SCALE 3/16" = 1'-0"

4 | A1.1 | A1.12

ACCESSIBLE UNIT

APPROACH LEGEND

- (A) - 60" TURNING RADIUS
- (B) - 30" x 48" CLEARANCE AT FIXTURE
- (C) - 60" x 56" CLEARANCE AT TOILET
- (D) - 60" x 54" CLEARANCE AT 3'-0" WIDE DOOR (FRONT APPROACH, PULL SIDE)
- (E) - 60" x 48" CLEARANCE AT 3'-0" WIDE DOOR (FRONT APPROACH, PUSH SIDE)
- (F) - 60" x 30" CLEARANCE AT TUB AND ROLL-IN SHOWER
- (G) - 36" x 48" CLEARANCE AT TRANSFER SHOWER

LEGEND

ELEMENTS TO BE REMOVED (REPAIR SURROUNDING SURFACES AS NECESSARY)

ELEMENTS TO REMAIN

NEW ELEMENTS

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ALLEGHANY COUNTY, VIRGINIA

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RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
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DATE
15 OCT 2018

A1.12

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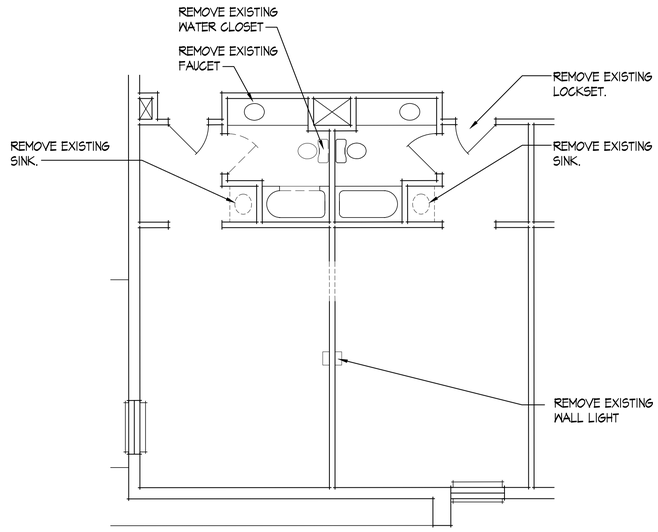
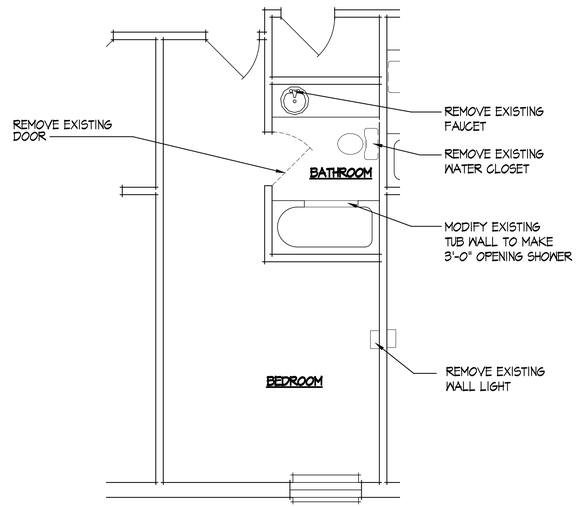


UNIT TYPE L - ONE BEDROOM DEMOLITION PLAN

4 | A1.7 | A1.12

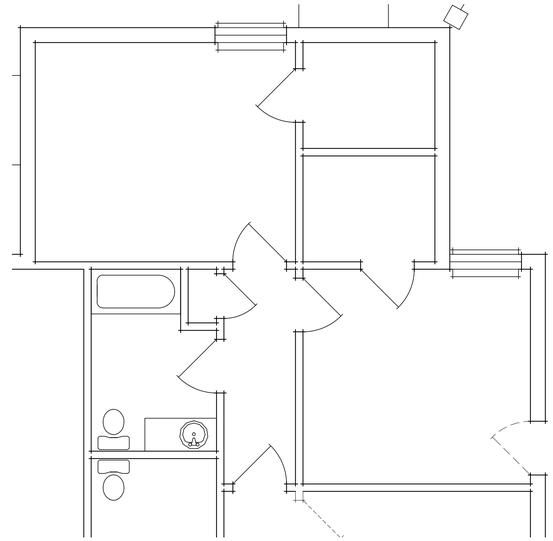
SCALE 3/16" = 1'-0"



UNIT TYPE M - STUDIO DEMOLITION PLAN

3 | A1.7 | A1.10

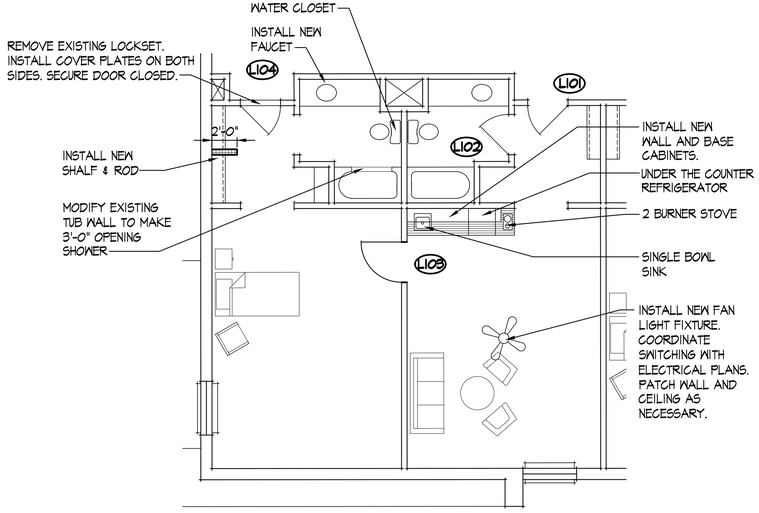
SCALE 1/4" = 1'-0"



UNIT TYPE N - TWO BEDROOM DEMOLITION PLAN

3 | A1.7 | A1.10

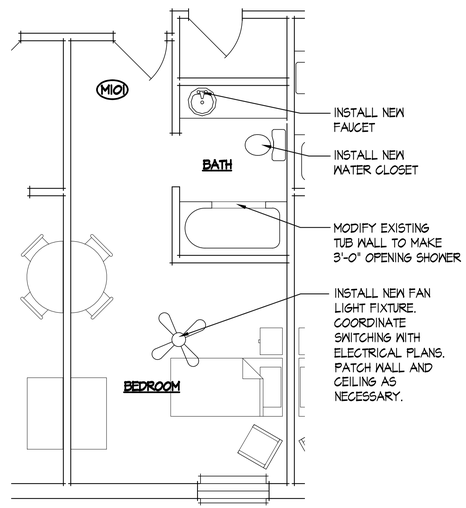
SCALE 1/4" = 1'-0"



UNIT TYPE L - ONE BEDROOM RENOVATION PLAN

4 | A1.7 | A1.12

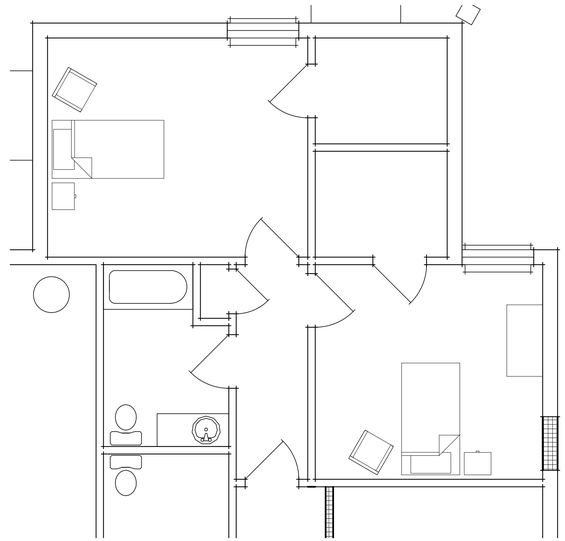
SCALE 3/16" = 1'-0"



UNIT TYPE M - STUDIO RENOVATION PLAN

3 | A1.7 | A1.10

SCALE 1/4" = 1'-0"



UNIT TYPE N - TWO BEDROOM RENOVATION PLAN

3 | A1.7 | A1.10

SCALE 1/4" = 1'-0"

APPROACH LEGEND

- Ⓐ - 60" TURNING RADIUS
- Ⓑ - 30" x 48" CLEARANCE AT FIXTURE
- Ⓒ - 60" x 56" CLEARANCE AT TOILET
- Ⓓ - 60" x 54" CLEARANCE AT 3'-0" WIDE DOOR (FRONT APPROACH, PULL SIDE)
- Ⓔ - 60" x 48" CLEARANCE AT 3'-0" WIDE DOOR (FRONT APPROACH, PUSH SIDE)
- Ⓕ - 60" x 30" CLEARANCE AT TUB AND ROLL-IN SHOWER
- Ⓖ - 36" x 48" CLEARANCE AT TRANSFER SHOWER

LEGEND

ELEMENTS TO BE REMOVED (REPAIR SURROUNDING SURFACES AS NECESSARY)

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TECHNICIANS
JMB
COMMISSION NUMBER
2751
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15 OCT 2018

A1.13

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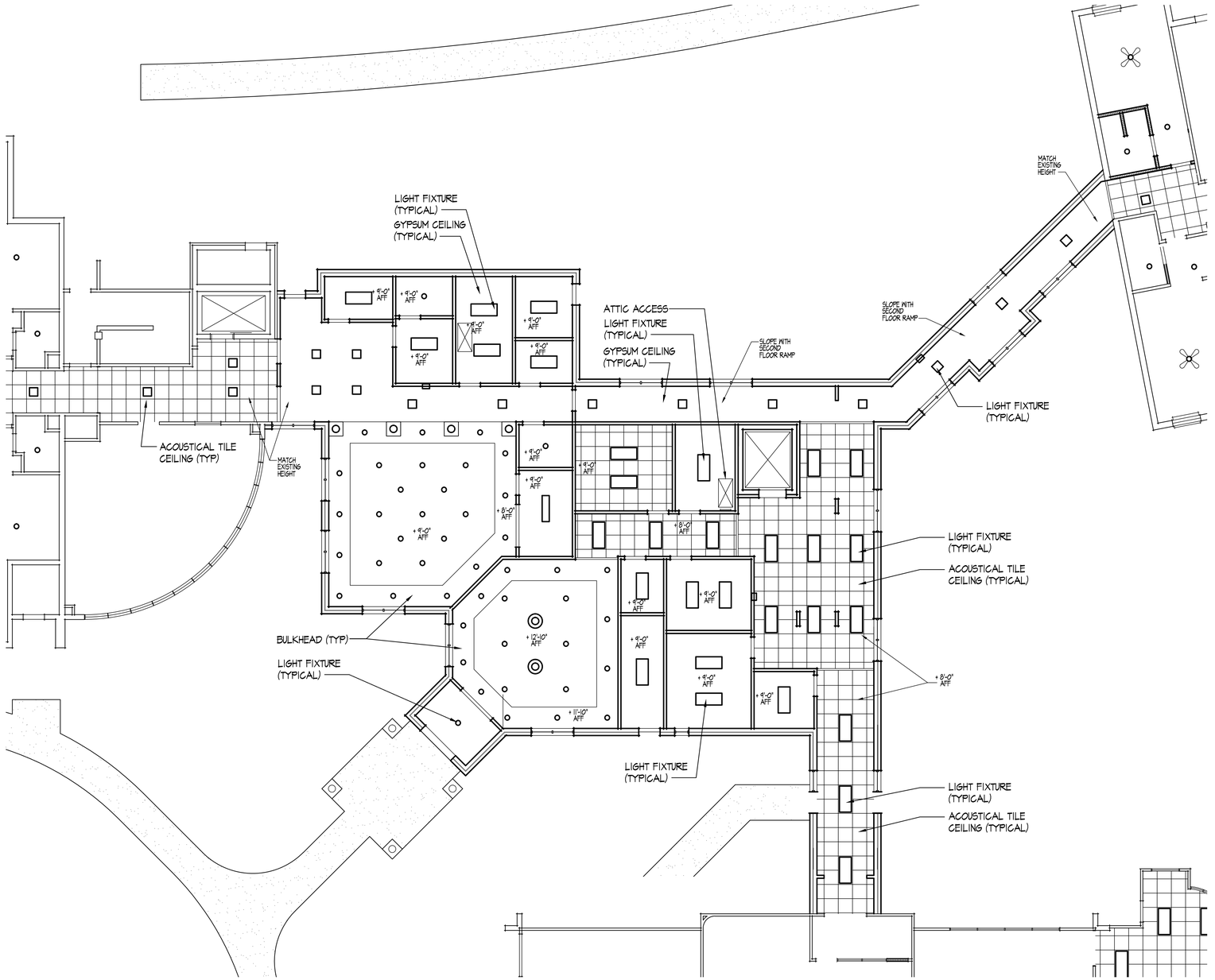

REFLECTED CEILING PLAN LEVEL ONE - AREA D

SCALE 1/8" = 1'-0"

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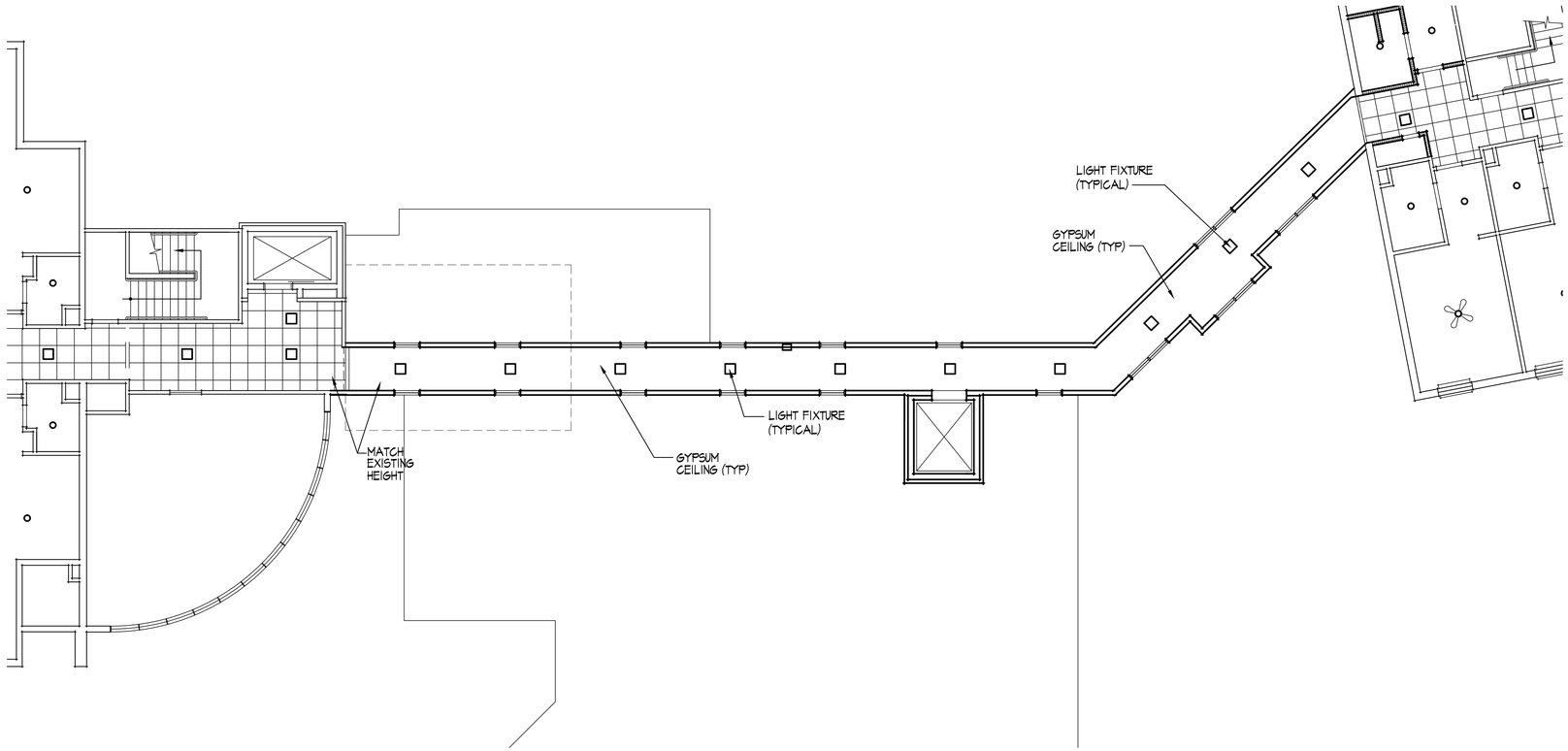
A1.14

JONES & JONES ASSOCIATES / ARCHITECTS PC



REFLECTED CEILING PLAN LEVEL TWO - AREA D

SCALE 1/8" = 1'-0"

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A1.15

JONES & JONES ASSOCIATES / ARCHITECTS PC

REFLECTED CEILING PLAN LEVEL TWO - AREA A

SCALE 3/32" = 1'-0"

REFLECTED CEILING PLAN LEVEL ONE - AREA A

SCALE 3/32" = 1'-0"

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A1.16

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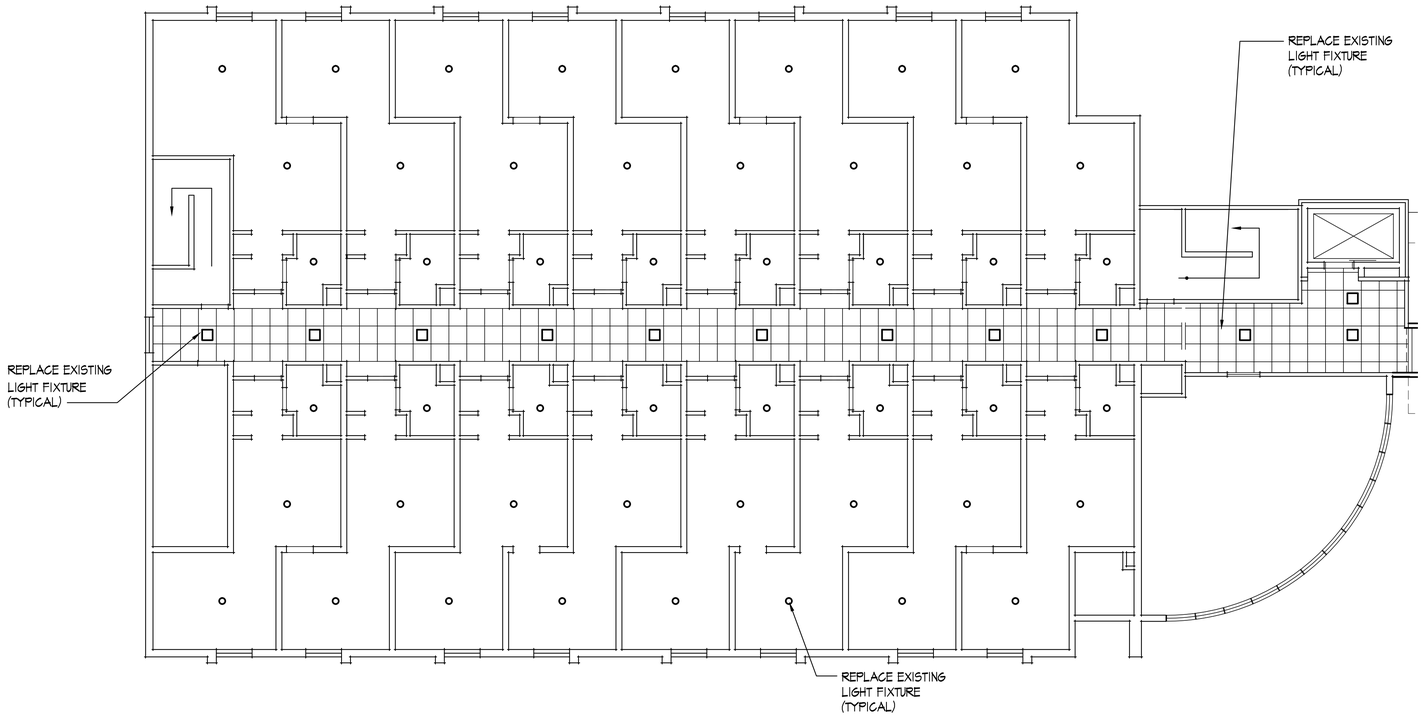
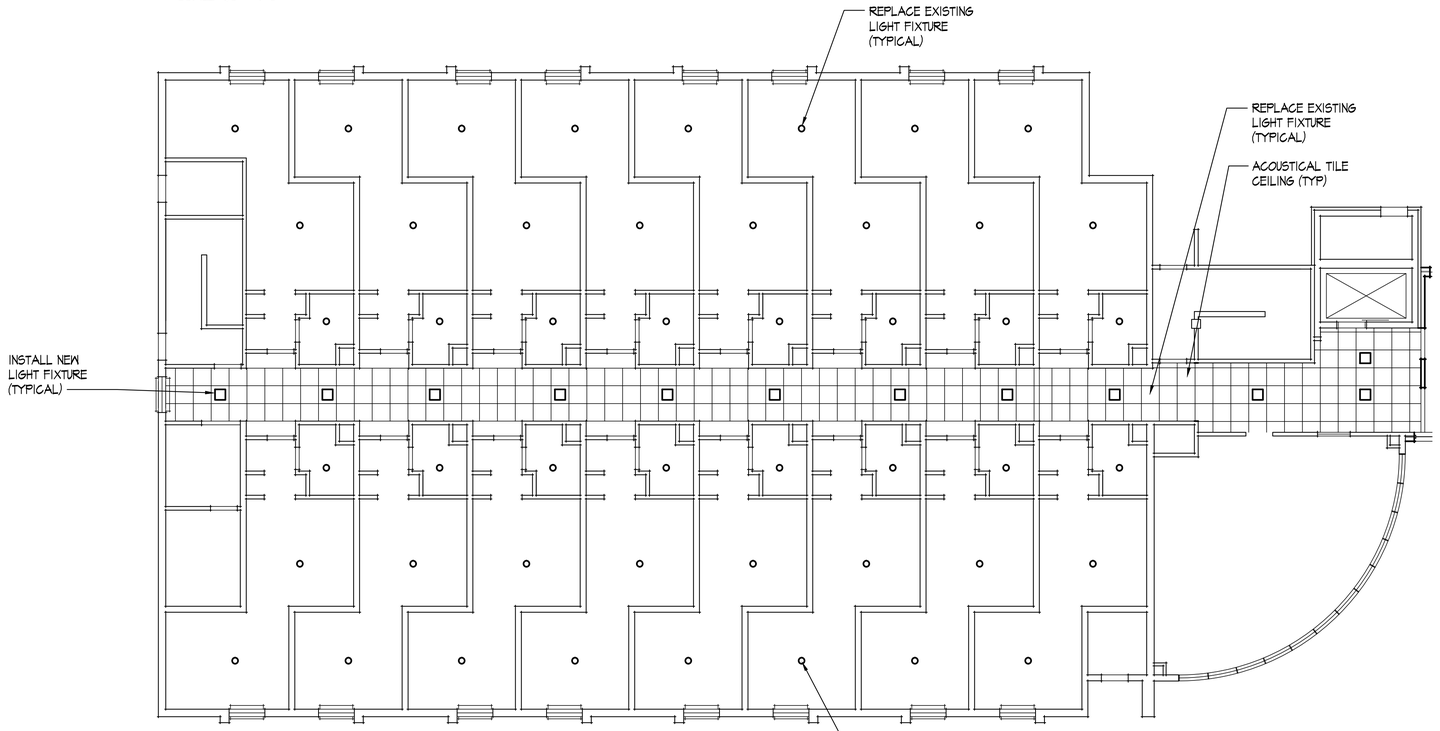


REFLECTED CEILING PLAN LEVEL TWO - AREA B

SCALE 1/8" = 1'-0"



REFLECTED CEILING PLAN LEVEL ONE - AREA B

SCALE 1/8" = 1'-0"

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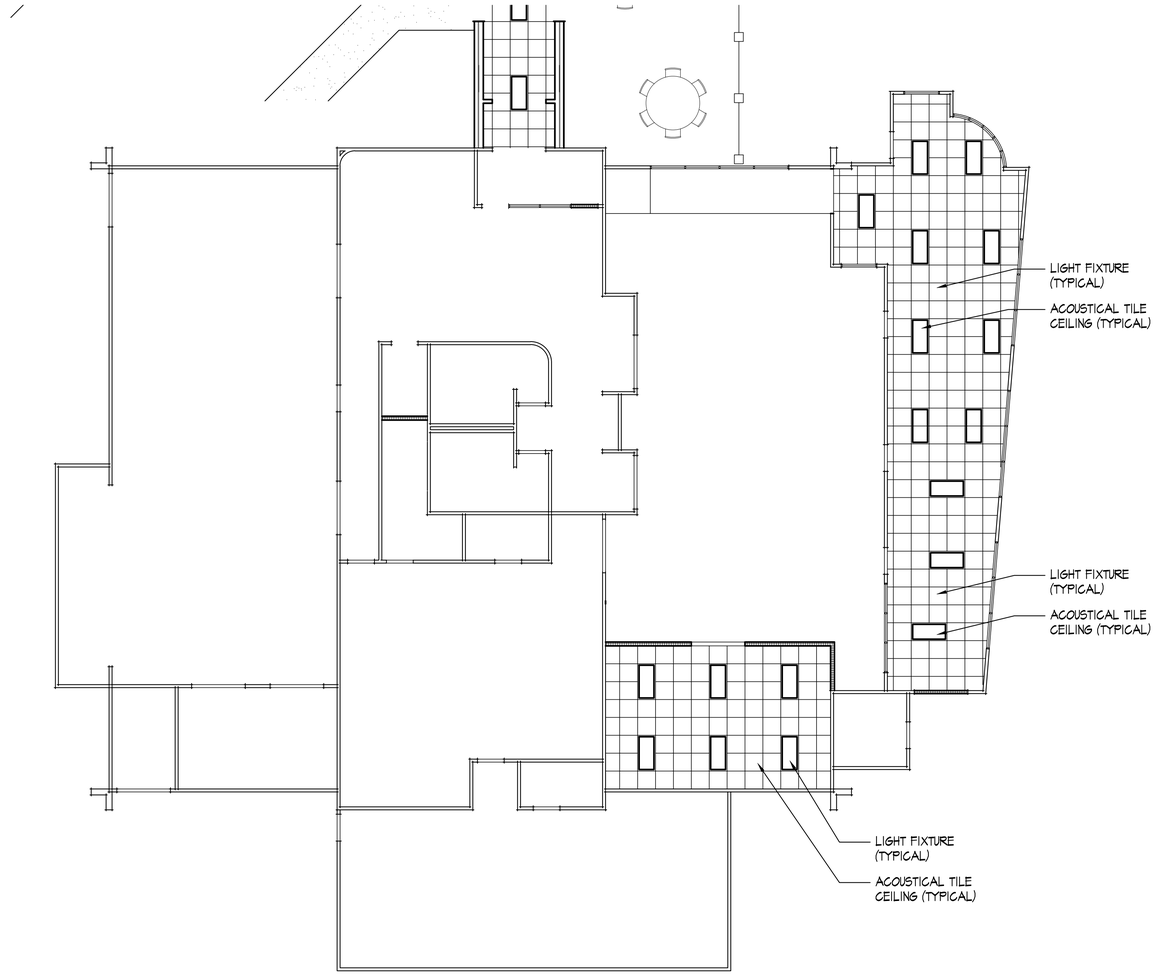
A1.17

JONES & JONES ASSOCIATES / ARCHITECTS PC



REFLECTED CEILING PLAN LEVEL ONE - AREA C

SCALE 1/8" = 1'-0"

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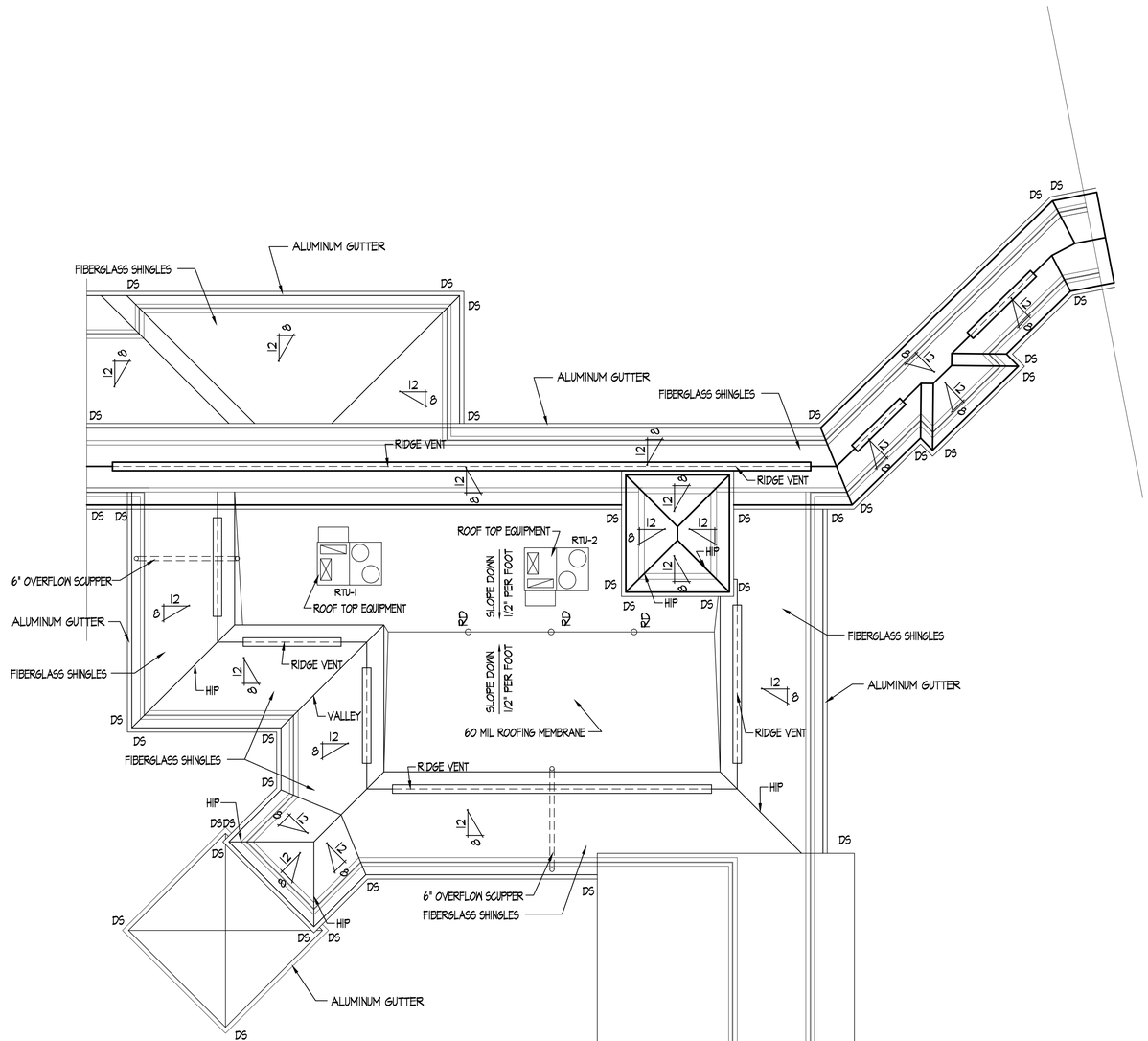
A1.18

JONES & JONES ASSOCIATES / ARCHITECTS PC



ROOF PLAN

SCALE 1/8" = 1'-0"

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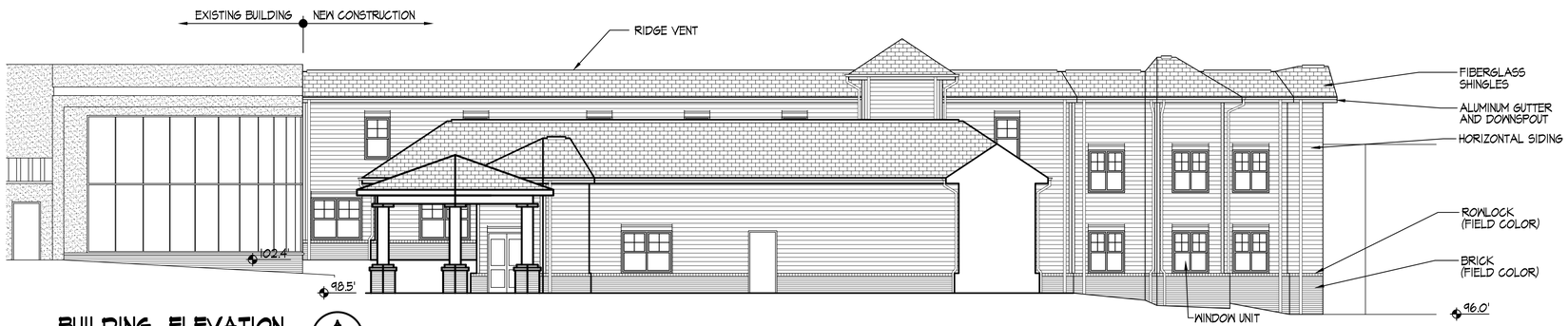
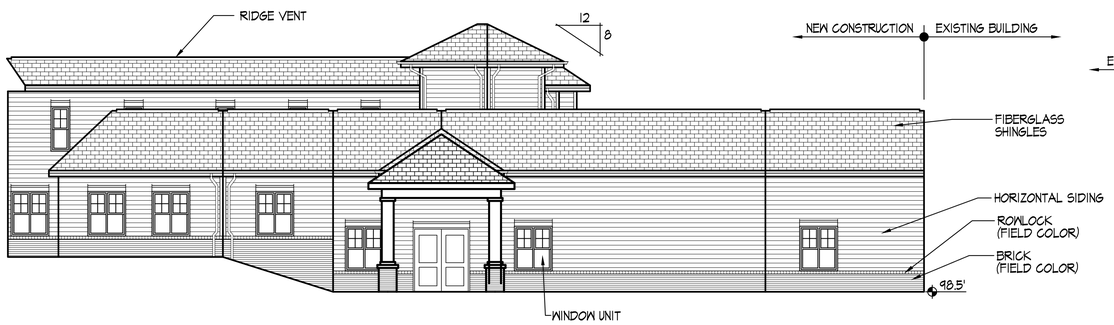
A1.19

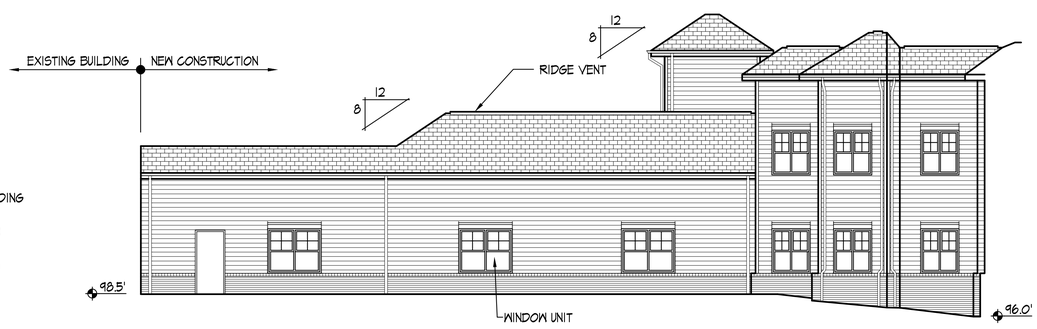
JONES & JONES ASSOCIATES / ARCHITECTS PC



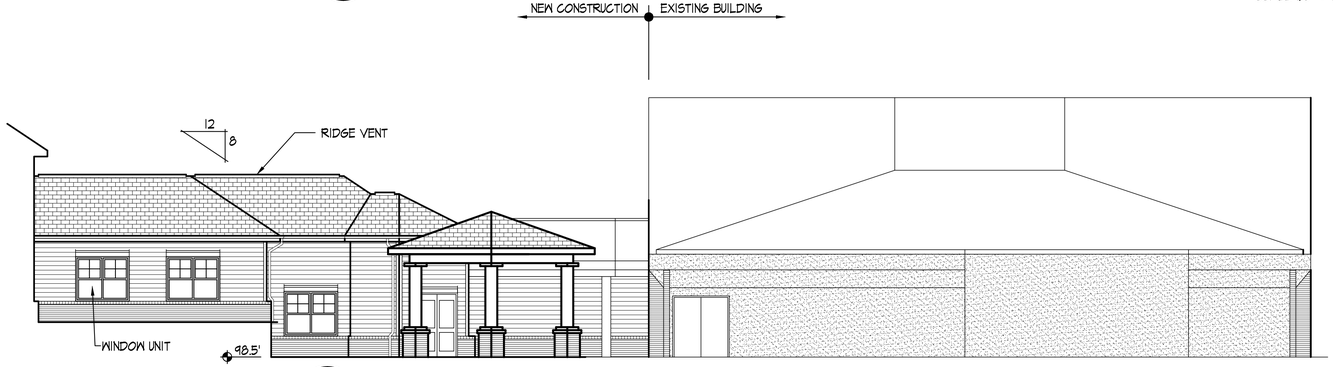
BUILDING ELEVATION A
SCALE 1/8" = 1'-0"



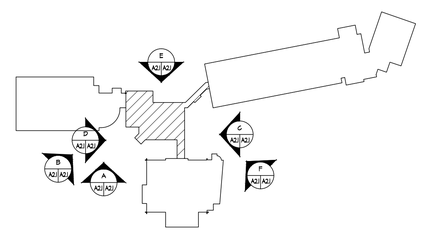
BUILDING ELEVATION B
SCALE 1/8" = 1'-0"



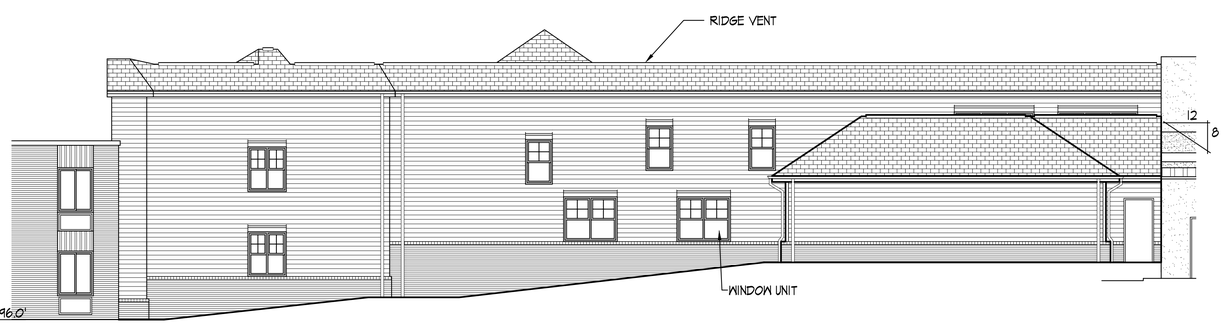
BUILDING ELEVATION C
SCALE 1/8" = 1'-0"



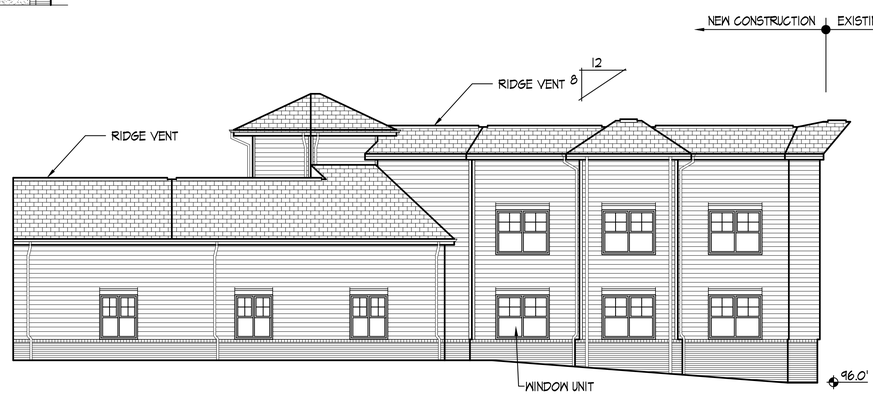
BUILDING ELEVATION D
SCALE 1/8" = 1'-0"



*EVALUATE AND REPAIR ALL BRICK AND FLASHING.



BUILDING ELEVATION E
SCALE 1/8" = 1'-0"



BUILDING ELEVATION F
SCALE 1/8" = 1'-0"

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MERU SENIOR HEALTH AND WELLNESS CAMPUS
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RLJ JR
TECHNICIANS
JMB
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2751
DATE
15 OCT 2018

A2.1

JONES & JONES ASSOCIATES / ARCHITECTS PC

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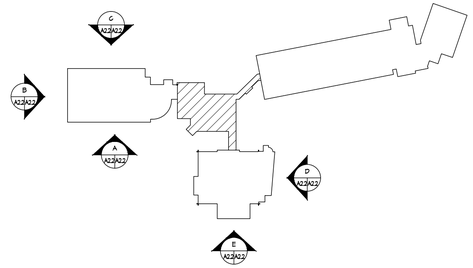
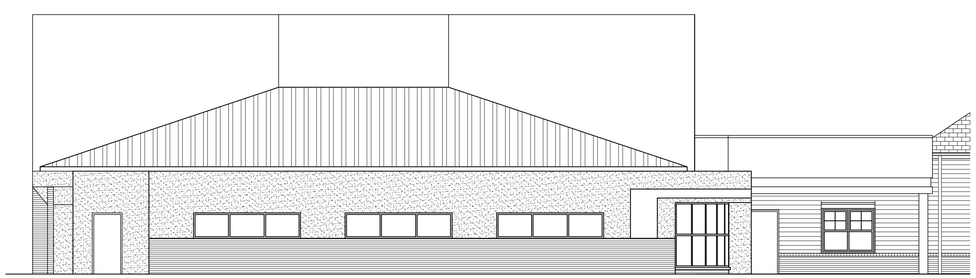
BUILDING ELEVATION A
SCALE 1/8" = 1'-0" A2.2/A2.2

BUILDING ELEVATION B
SCALE 1/8" = 1'-0" A2.2/A2.2

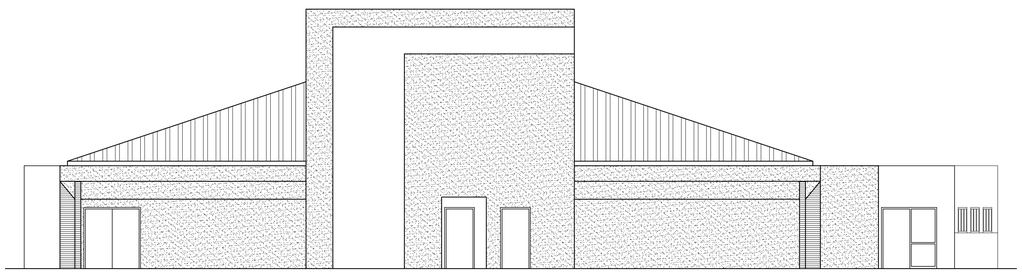
BUILDING ELEVATION C
SCALE 1/8" = 1'-0" A2.2/A2.2



*EVALUATE AND REPAIR ALL BRICK AND FLASHING.



BUILDING ELEVATION D
SCALE 1/8" = 1'-0" A2.2/A2.2



BUILDING ELEVATION E
SCALE 1/8" = 1'-0" A2.2/A2.2

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A2.2

JONES & JONES ASSOCIATES / ARCHITECTS PC

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MATCH LINE 'A'

BUILDING ELEVATION
SCALE 1/8" = 1'-0"

A
A2.3|A2.3

MATCH LINE 'A'

BUILDING ELEVATION
SCALE 1/8" = 1'-0"

A
A2.3|A2.3

MATCH LINE 'A'

BUILDING ELEVATION
SCALE 1/8" = 1'-0"

B
A2.3|A2.3

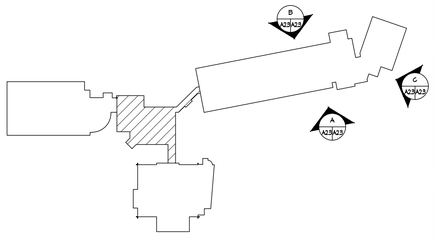
MATCH LINE 'A'

BUILDING ELEVATION
SCALE 1/8" = 1'-0"

B
A2.3|A2.3

BUILDING ELEVATION
SCALE 1/8" = 1'-0"

C
A2.3|A2.3



*EVALUATE AND REPAIR ALL BRICK AND FLASHING.

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A2.3

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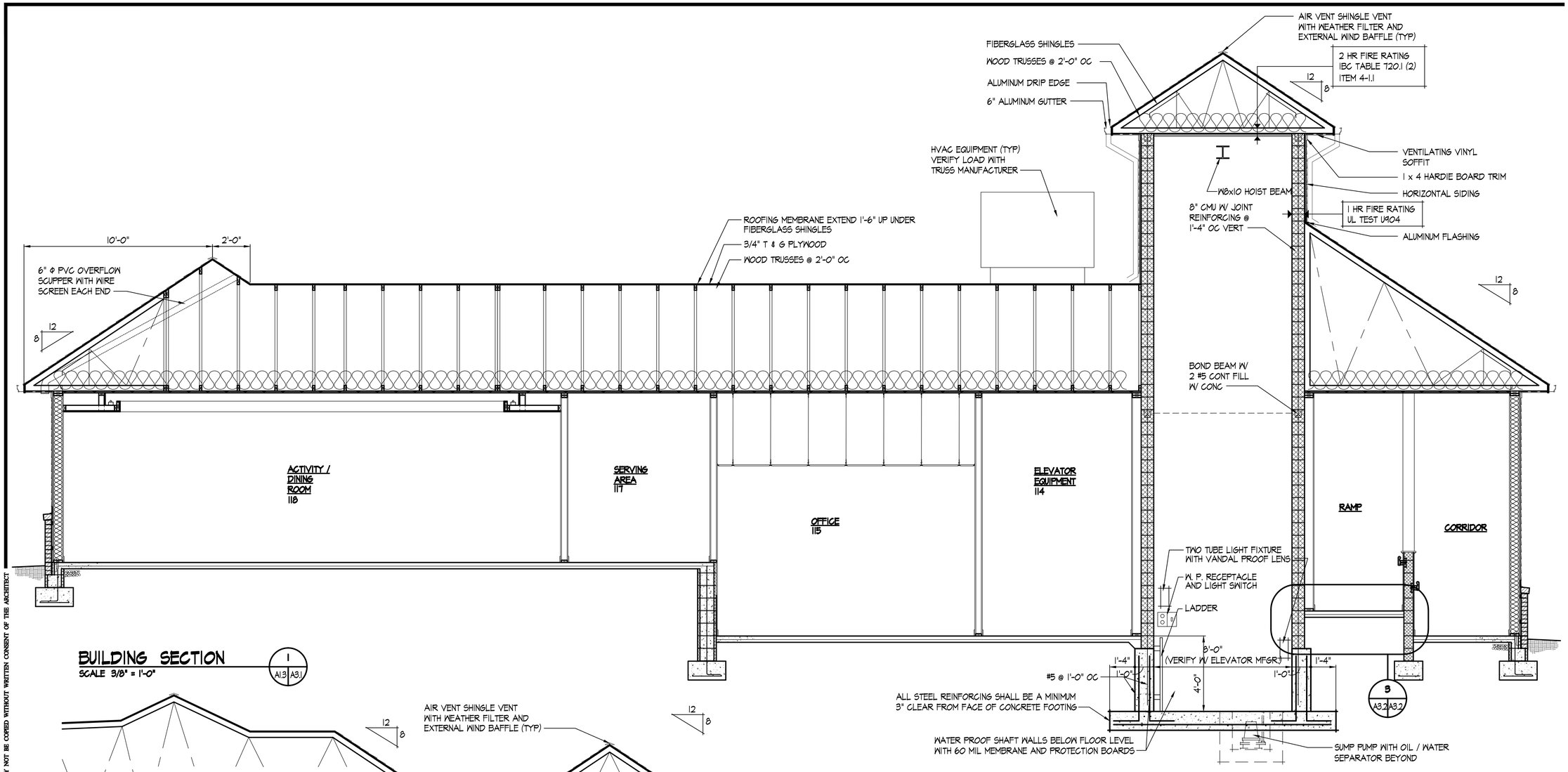
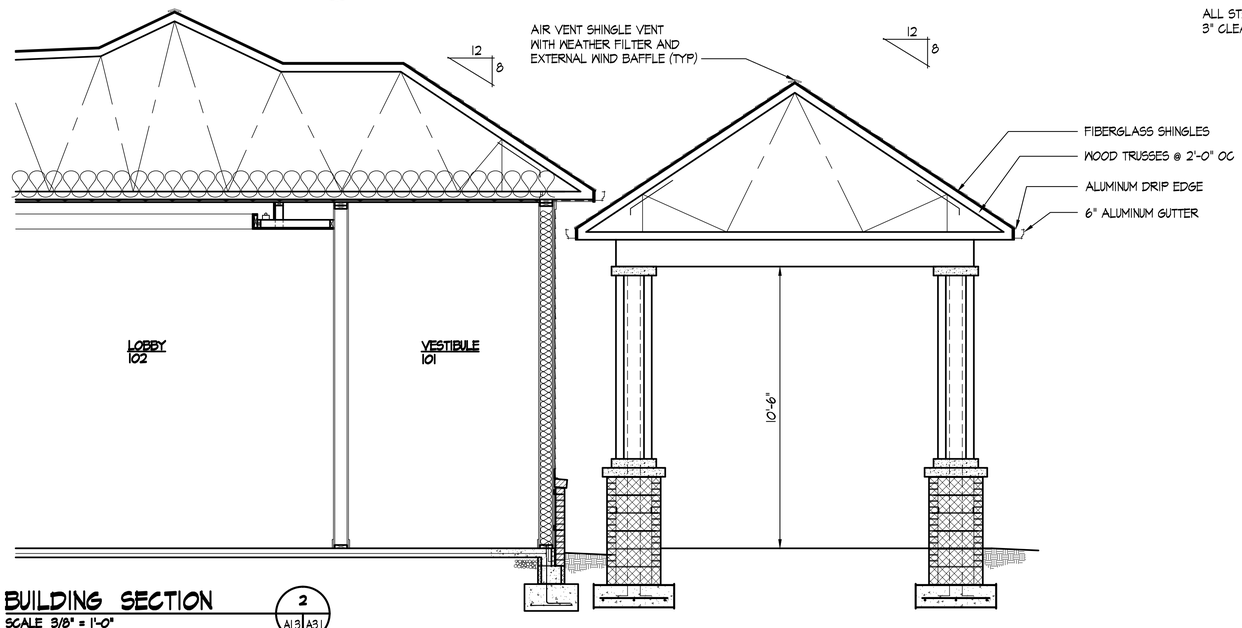


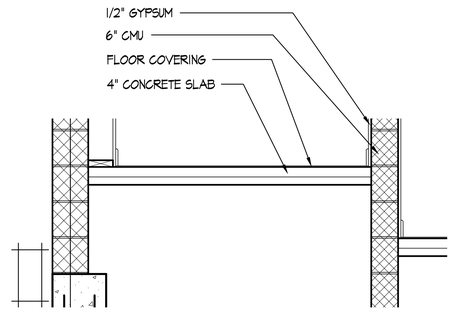
BUILDING SECTION
SCALE 3/8" = 1'-0"

1 | A1.3 | A3.1



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

2 | A1.3 | A3.1



RAMP DETAIL
SCALE 3/8" = 1'-0"

3 | A3.2 | A3.2

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A3.1

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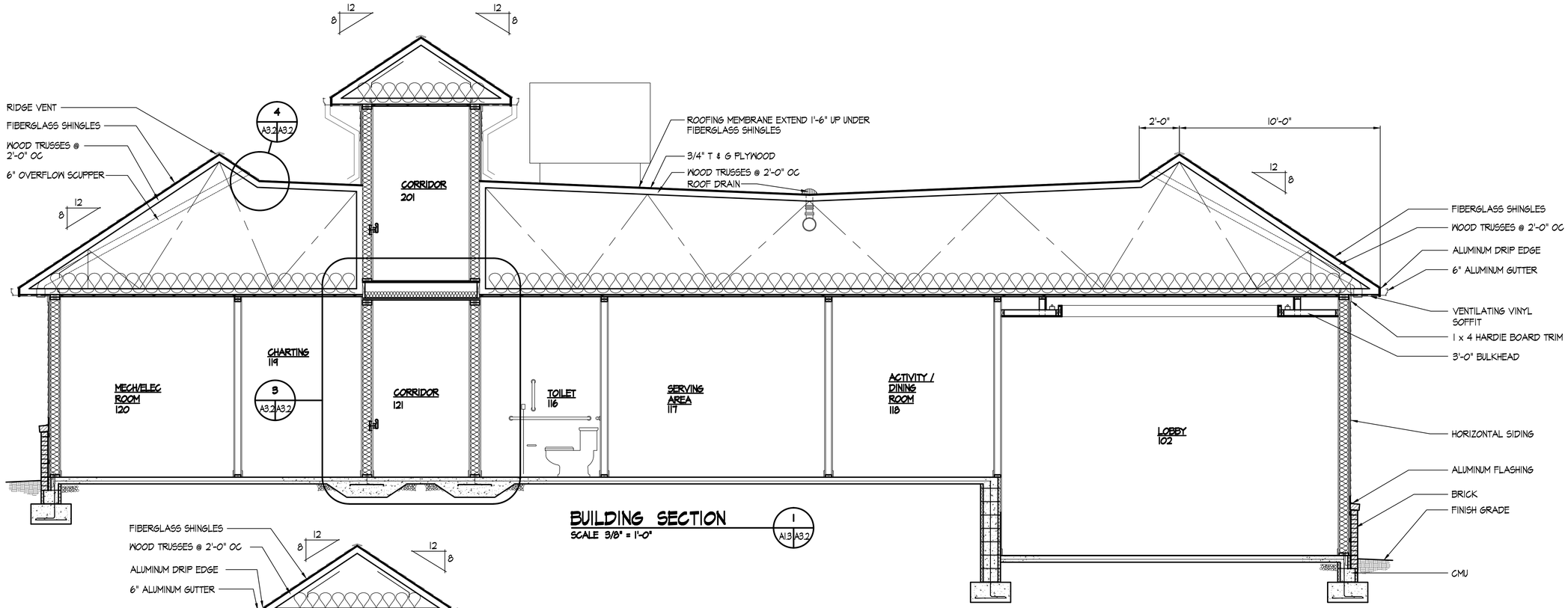
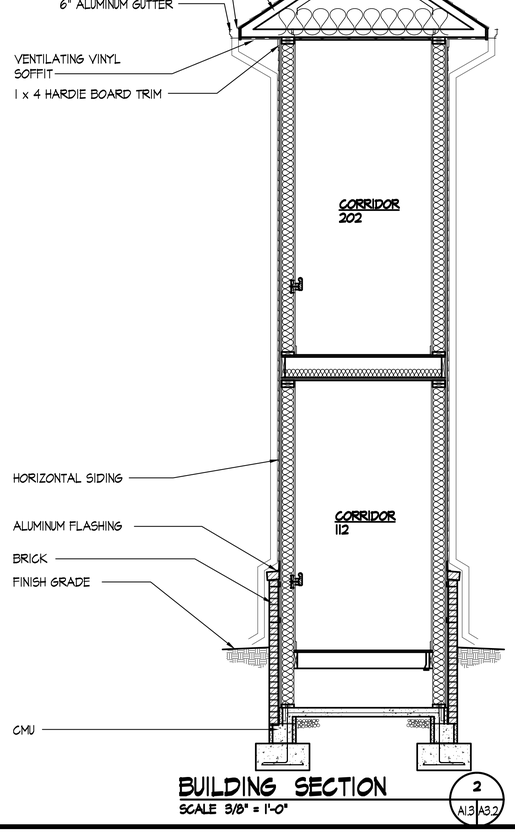


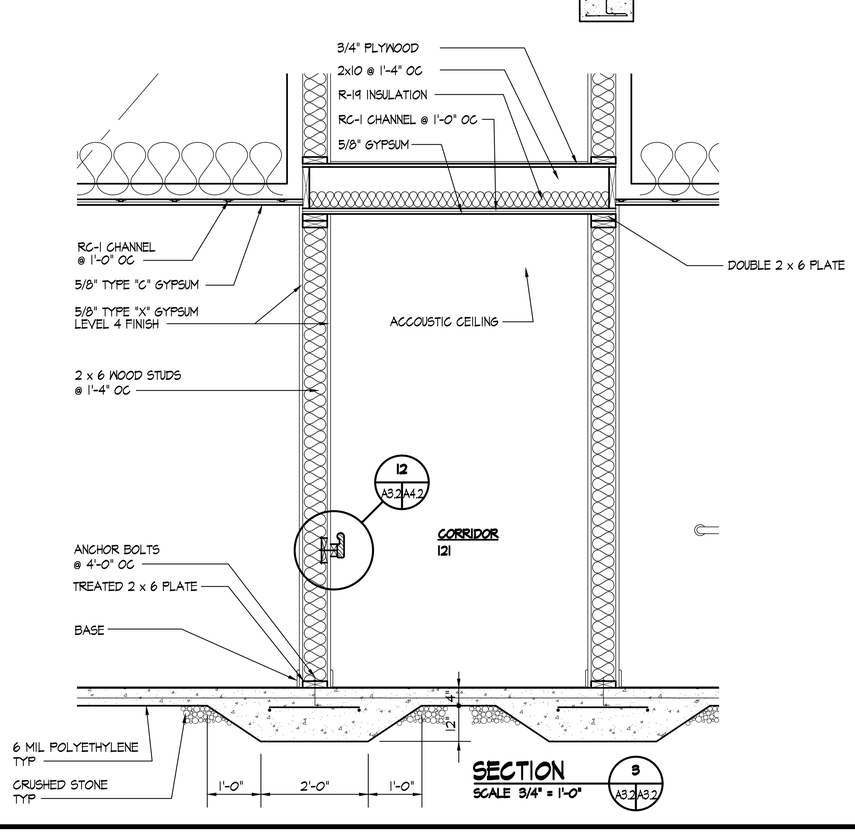
BUILDING SECTION
SCALE 3/8" = 1'-0"

1 A1.3|A3.2



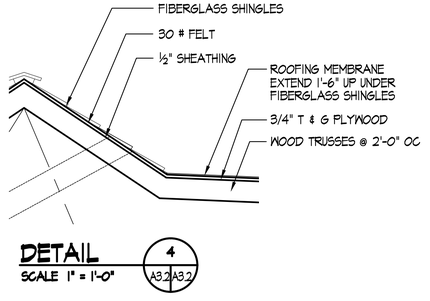
BUILDING SECTION
SCALE 3/8" = 1'-0"

2 A1.3|A3.2



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

3 A3.2|A3.2



DETAIL
SCALE 1" = 1'-0"

4 A3.2|A3.2

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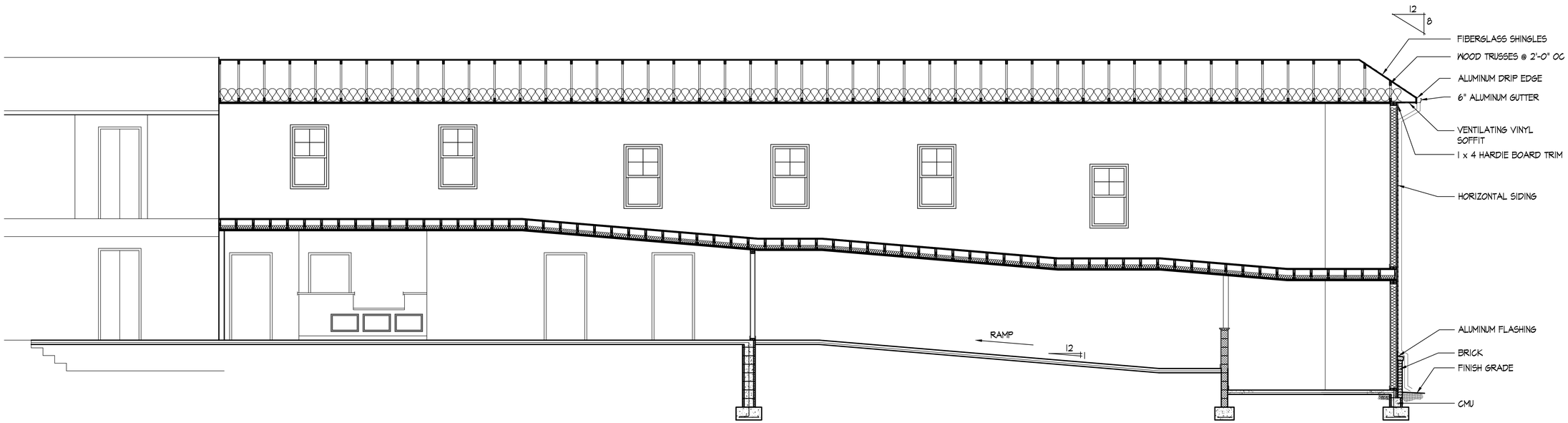
A3.2

JONES & JONES ASSOCIATES / ARCHITECTS PC



BUILDING SECTION

SCALE 1/4" = 1'-0"

1 / A1.3 | A3.3

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A3.3

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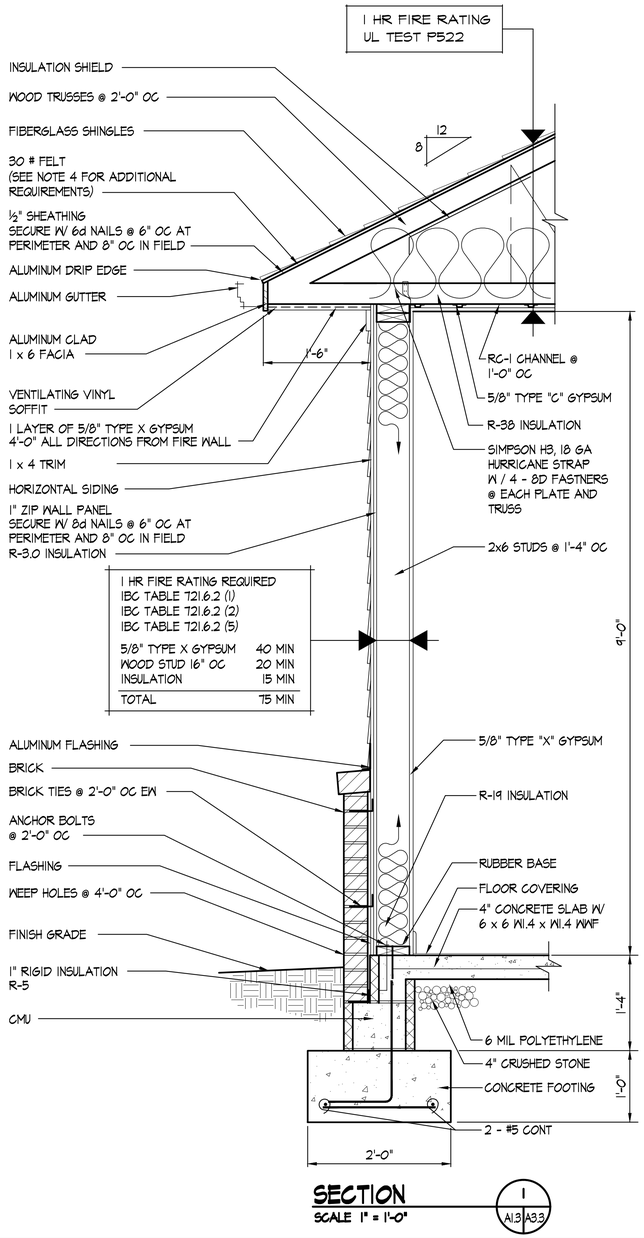
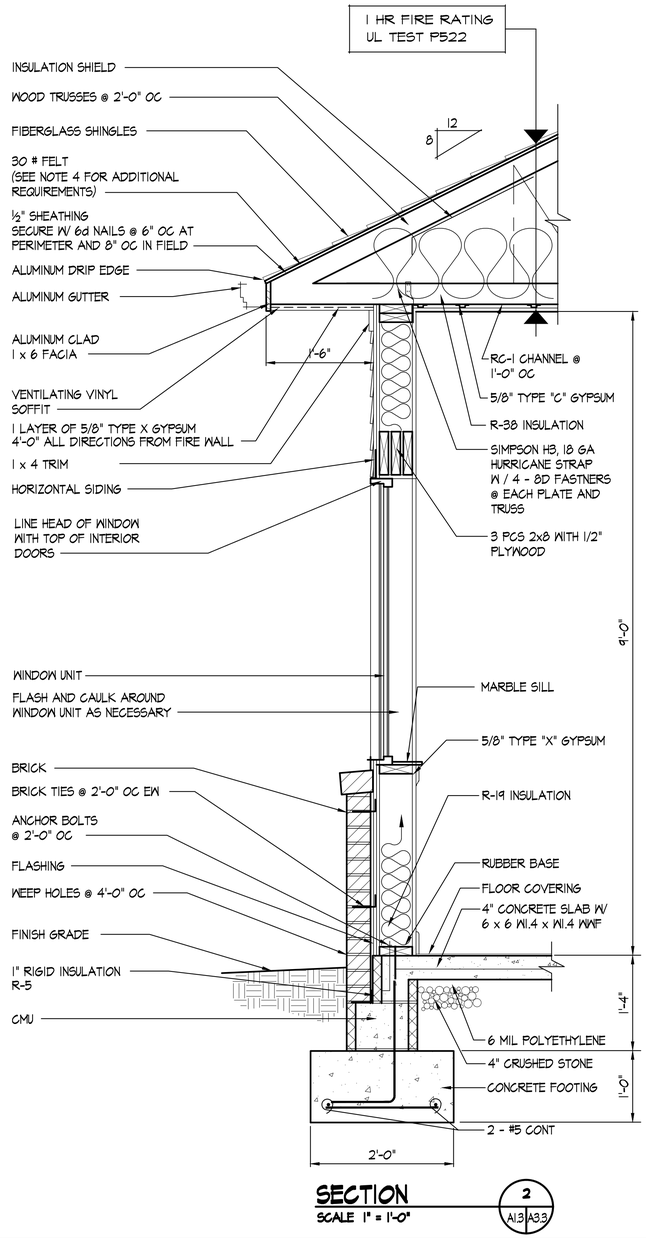
NOTES

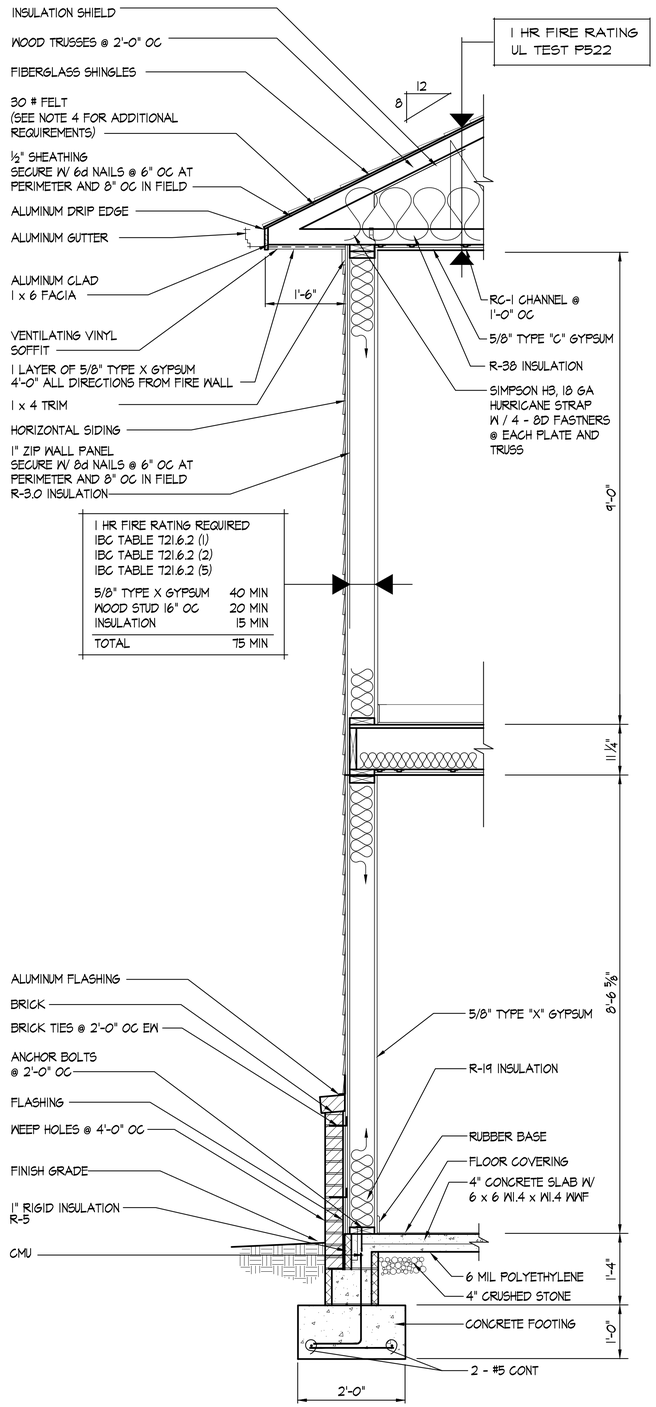
1. THE TOP OF FOOTING ELEVATION SHALL BE A MINIMUM OF 1'-4" BELOW THE INDICATED FINISH GRADE AND SHALL COURSE OUT IN 8" INCREMENTS
2. ALL FIRE RATED ASSEMBLY INTERSECTIONS SHALL BE SEALED IN ACCORDANCE WITH GYPSUM MANUFACTURERS INSTRUCTIONS
3. ALL INSULATING MATERIAL SHALL MEET OR EXCEED THE FOLLOWING RATINGS: FLAME SPREAD INDEX OF NOT MORE THAN 25, SMOKE DEVELOPMENT 0-450
4. PROVIDE WEATHER SHIELD UNDER SHINGLES AT ALL VALLEYS AND 4'-0" UP FROM ALL ROOF EDGES
5. PROVIDE 2 x 6 STUDS AT ALL PLUMBING WALLS AND WALLS CONTAINING ELECTRICAL PANELS
6. BASE MATERIAL AND POLYETHYLENE SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF ASTM E 1465-08a



SECTION 1
SCALE 1" = 1'-0"
A1.3 | A3.3



SECTION 2
SCALE 1" = 1'-0"
A1.3 | A3.3



SECTION 3
SCALE 3/4" = 1'-0"
A1.3 | A3.3

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A3.4

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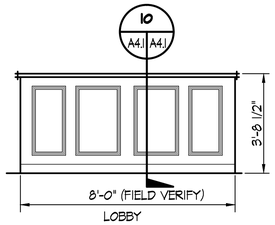
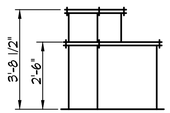
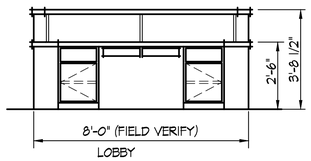


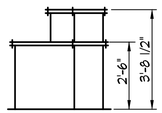
ELEVATION 1 (A1.5 | A4.1)
SCALE 3/8" = 1'-0"



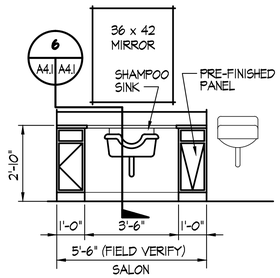
ELEVATION 2 (A1.5 | A4.1)
SCALE 3/8" = 1'-0"



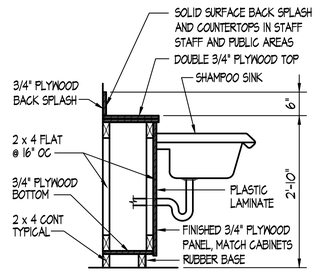
ELEVATION 3 (A1.5 | A4.1)
SCALE 3/8" = 1'-0"



ELEVATION 4 (A1.5 | A4.1)
SCALE 3/8" = 1'-0"



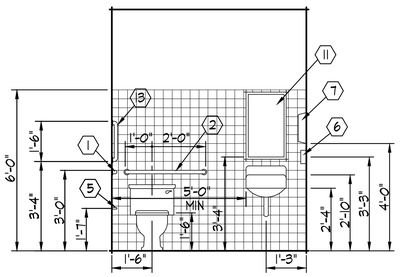
ELEVATION 5 (A1.5 | A4.1)
SCALE 3/8" = 1'-0"



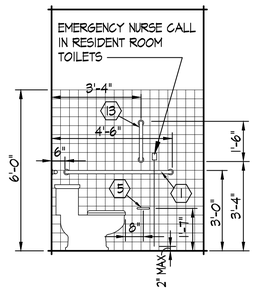
SECTION 6 (A4.1 | A4.1)
SCALE 3/4" = 1'-0"

TOILET ACCESSORIES

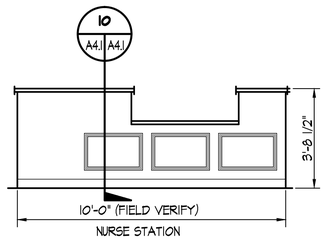
	DESCRIPTION	MODEL
1	GRAB BAR - 1 1/2" x 48" LONG	BOBRICK B6806x42"
2	GRAB BAR - 1 1/2" x 36" LONG	BOBRICK B-6806x36"
3	GRAB BAR - 1 1/2" x 24" LONG	BOBRICK B6866
4	TOWEL BAR - 18" LONG	BOBRICK B-674x18"
5	TOILET PAPER DISPENSER	BOBRICK B-685
6	SOAP DISPENSER	BY OWNER
7	PAPER TOWEL DISPENSER	BY OWNER
8	DOUBLE ROBE HOOK	BOBRICK B-672
9	SHOWER CURTAIN ROD	BOBRICK B-6107
10	PRIVACY CURTAIN TRACK	BY OWNER
11	MIRROR 18" x 30"	BOBRICK B-290-1830
12	MIRROR 36" x 42"	BOBRICK B-290-3642
13	GRAB BAR - 1 1/2" x 18" LONG	BOBRICK B-6806x18"
15	GRAB BAR	W/ SHOWER UNIT



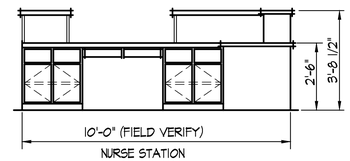
TYPICAL ELEVATION @ PUBLIC TOILETS
SCALE 3/8" = 1'-0"



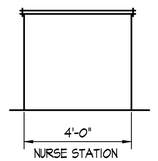
TYPICAL ELEVATION @ PUBLIC TOILETS
SCALE 3/8" = 1'-0"



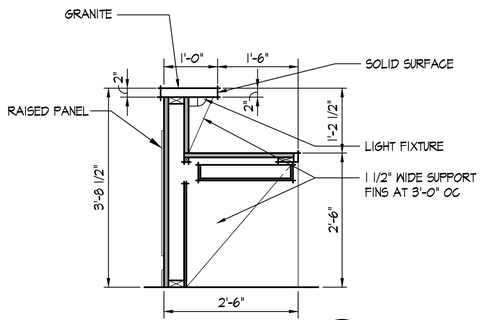
ELEVATION 7 (A1.5 | A4.1)
SCALE 3/8" = 1'-0"



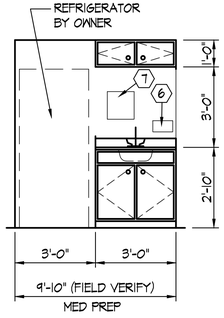
ELEVATION 8 (A1.5 | A4.1)
SCALE 3/8" = 1'-0"



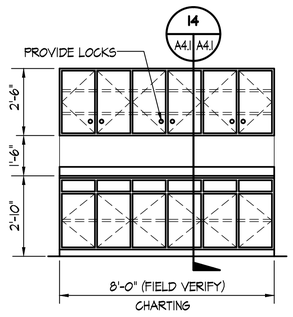
ELEVATION 9 (A1.5 | A4.1)
SCALE 3/8" = 1'-0"



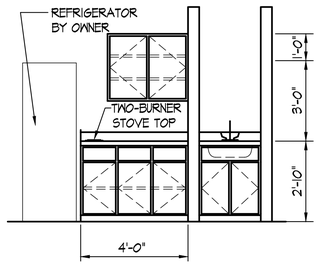
SECTION 10 (A4.1 | A4.1)
SCALE 3/4" = 1'-0"



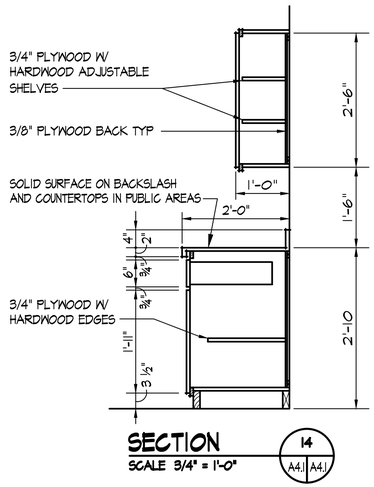
ELEVATION 11 (A1.5 | A4.1)
SCALE 3/8" = 1'-0"



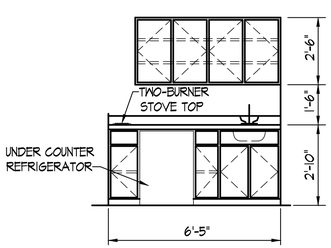
ELEVATION 12 (A1.5 | A4.1)
SCALE 3/8" = 1'-0"



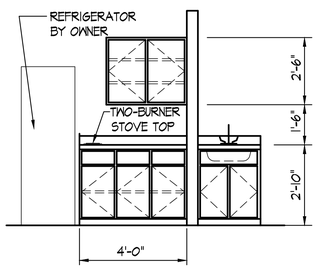
ELEVATION 13 (A1.10 | A4.1)
SCALE 3/8" = 1'-0"



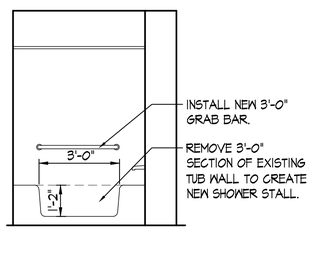
SECTION 14 (A4.1 | A4.1)
SCALE 3/4" = 1'-0"



ELEVATION 15 (A1.11 | A4.1)
SCALE 3/8" = 1'-0"



ELEVATION 16 (A1.11 | A4.1)
SCALE 3/8" = 1'-0"



ELEVATION 17 (A1.10 | A4.1)
SCALE 3/8" = 1'-0"

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MERU SENIOR HEALTH AND WELLNESS CAMPUS

ALLEGHANY COUNTY, VIRGINIA

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JWB
COMMISSION NUMBER
2751
DATE
15 OCT 2018

A4.1

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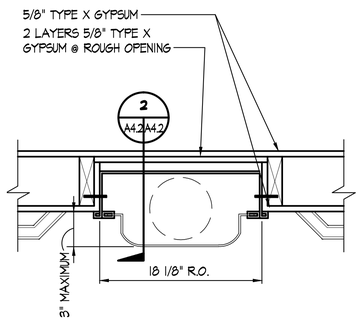
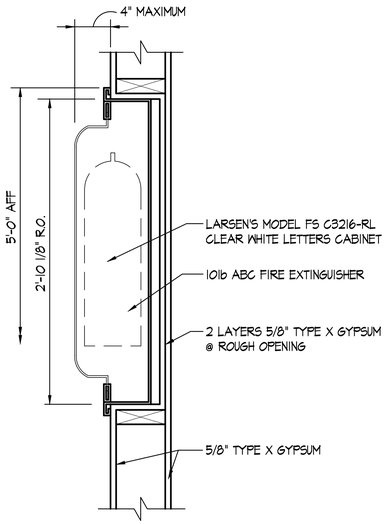
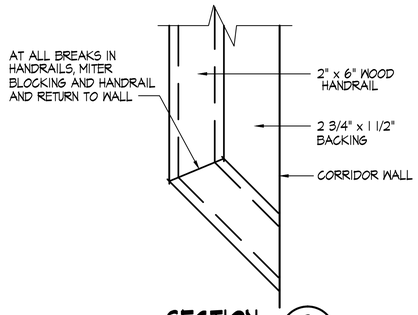


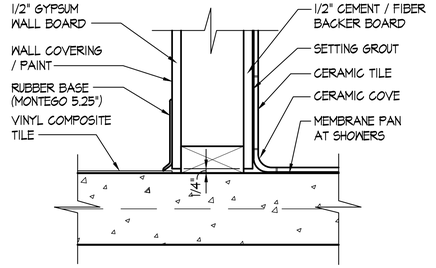
SECTION
SCALE 1-1/2" = 1'-0"
1 | A1.3|A4.2



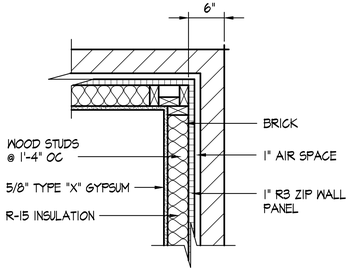
SECTION
SCALE 1-1/2" = 1'-0"
2 | A4.2|A4.2



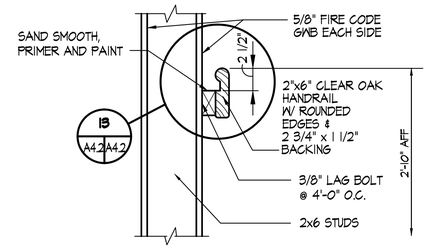
SECTION
SCALE 6" = 1'-0"
3 | A1.3|A4.2



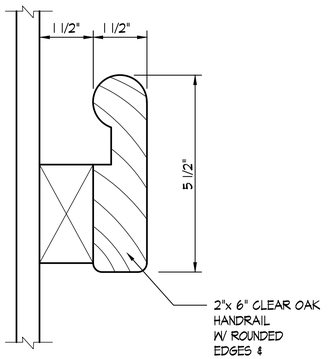
TYPICAL BASE DETAIL
SCALE 3" = 1'-0"



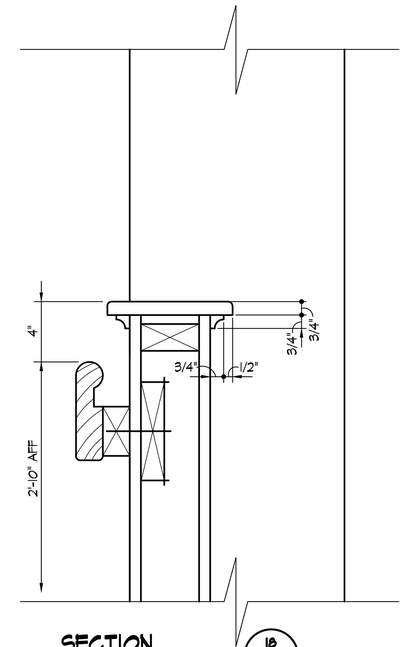
SECTION
SCALE 1" = 1'-0"
11 | A1.5|A4.2



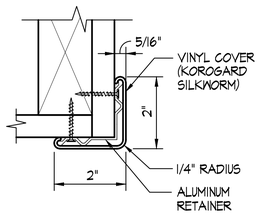
SECTION
SCALE 1-1/2" = 1'-0"
12 | A3.2|A4.2



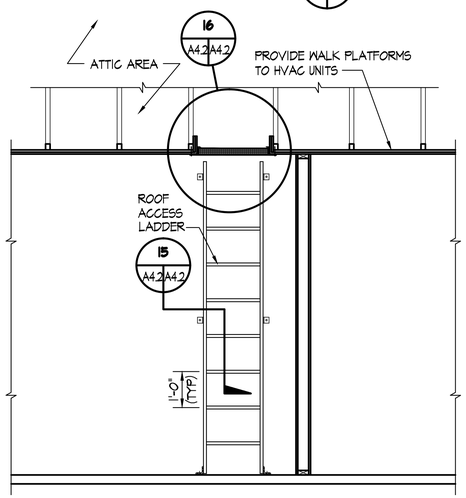
SECTION
SCALE 6" = 1'-0"
13 | A4.2|A4.2



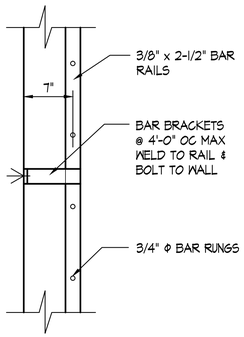
SECTION
SCALE 3" = 1'-0"
18 | A1.5|A4.2



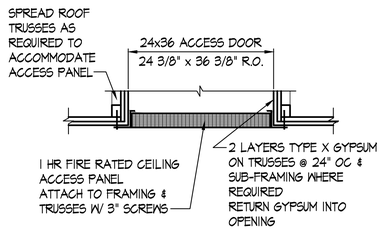
TYPICAL CORNER GUARD
SCALE 6" = 1'-0"



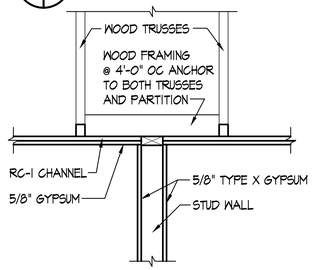
SECTION
SCALE 1/2" = 1'-0"
14 | A1.5|A4.2



SECTION
SCALE 1" = 1'-0"
15 | A4.2|A4.2

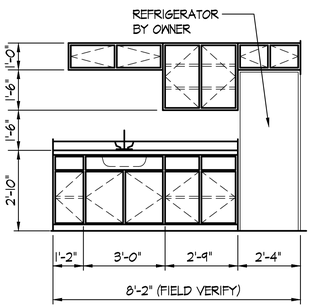


SECTION
SCALE 1" = 1'-0"
16 | A4.2|A4.2

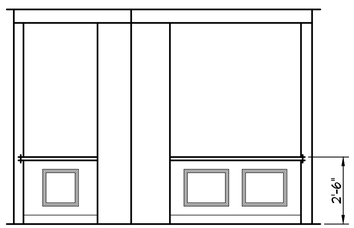


(TYPICAL AT WALLS PARALLEL TO TRUSSES)

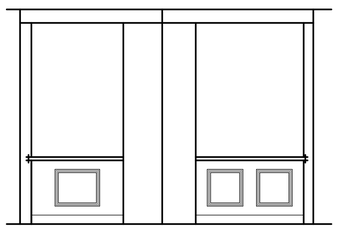
SECTION
SCALE 1" = 1'-0"
17 | A1.5|A4.2



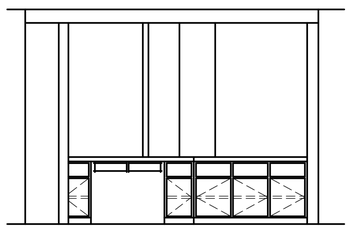
ELEVATION
SCALE 3/8" = 1'-0"
19 | A1.5|A4.2



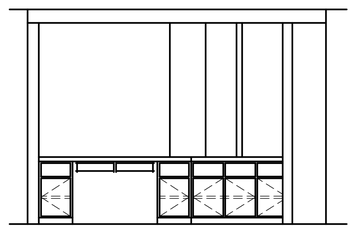
ELEVATION
SCALE 3/8" = 1'-0"
20 | A1.5|A4.2



ELEVATION
SCALE 3/8" = 1'-0"
21 | A1.5|A4.2



ELEVATION
SCALE 3/8" = 1'-0"
22 | A1.5|A4.2



ELEVATION
SCALE 3/8" = 1'-0"
23 | A1.5|A4.2

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RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2751
DATE
15 OCT 2018

A4.2

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DOOR SCHEDULE

DOOR MARK	DOOR SIZE	DOOR TYPE	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	HDW SET NO	REMARKS
101	PAIR 3-0 x 7-0 x 1 3/4	A	1	2		1	
102	PAIR 3-0 x 7-0 x 1 3/4	A	3	4		1	
103	3-0 x 7-0 x 1 3/4	F	1	2		2	
104	3-0 x 7-0 x 1 3/4	C	3	4		5	
105	3-0 x 7-0 x 1 3/4	C	3	4		4	
106	3-0 x 7-0 x 1 3/4	C	3	4		3	
107	3-0 x 7-0 x 1 3/4	C	3	4		4	
108	3-0 x 7-0 x 1 3/4	C	3	4		4	
109	3-0 x 7-0 x 1 3/4	D	3	4		3	
110	3-0 x 7-0 x 1 3/4	G	1	2		2	
111	3-0 x 7-0 x 1 3/4	G	1	2		2	
112	3-0 x 7-0 x 1 3/4	E	5	6		9	
113	3-0 x 7-0 x 1 3/4	C	3	4		5	
114	3-0 x 7-0 x 1 3/4	D	3	4		3	
115	3-0 x 7-0 x 1 3/4	C	3	4		4	
116	3-0 x 7-0 x 1 3/4	F	1	2		2	
117	3-0 x 7-0 x 1 3/4	D	3	4		3	
118	3-0 x 7-0 x 1 3/4	C	3	4		4	
119	3-0 x 7-0 x 1 3/4	C	3	4		5	
120	3-0 x 7-0 x 1 3/4	D	3	4		3	
121	3-0 x 7-0 x 1 3/4	G	1	2		2	
122	PAIR 3-0 x 7-0 x 1 3/4	1	9	10		6	
201	3-0 x 7-0 x 1 3/4	D	3	4		3	
202	3-0 x 7-0 x 1 3/4	C	3	4		3	
203	3-0 x 7-0 x 1 3/4	C	3	4		5	
204	3-0 x 7-0 x 1 3/4	C	3	4		4	
205	3-0 x 7-0 x 1 3/4	D	3	4		3	
301	3-0 x 7-0 x 1 3/4	E	5	6		9	
302	3-0 x 7-0 x 1 3/4	C	3	4		3	
303	3-0 x 7-0 x 1 3/4	E	5	6		9	
401	PAIR 3-0 x 7-0 x 1 3/4	H	3	4		11	
402	3-0 x 7-0 x 1 3/4	C	3	4		10	
A101	3-0 x 7-0 x 1 3/4					4	EXISTING DOOR TO REMAIN, INSTALL NEW LOCKSET
A102	3-0 x 7-0 x 1 3/4					4	EXISTING DOOR TO REMAIN, INSTALL NEW LOCKSET
B101	3-0 x 7-0 x 1 3/4					4	EXISTING DOOR TO REMAIN, INSTALL NEW LOCKSET
B102	2-6 x 7-0 x 1 3/4					4	EXISTING DOOR TO REMAIN, INSTALL NEW LOCKSET
B103	3-0 x 7-0 x 1 3/4	C	3	4		4	
B104	3-0 x 7-0 x 1 3/4						INSTALL NEW PUSH PLATE AND LOCK DOOR SHUT TO ENSURE NO USE
C101	3-0 x 7-0 x 1 3/4					4	EXISTING DOOR TO REMAIN, INSTALL NEW LOCKSET
D101	3-0 x 7-0 x 1 3/4					4	EXISTING DOOR TO REMAIN, INSTALL NEW LOCKSET
D102	3-0 x 7-0 x 1 3/4					4	EXISTING DOOR TO REMAIN, INSTALL NEW LOCKSET
E101	3-0 x 7-0 x 1 3/4					4	EXISTING DOOR TO REMAIN, INSTALL NEW LOCKSET
E102	3-0 x 7-0 x 1 3/4					4	EXISTING DOOR TO REMAIN, INSTALL NEW LOCKSET
F101	3-0 x 7-0 x 1 3/4					4	EXISTING DOOR TO REMAIN, INSTALL NEW LOCKSET
F102	3-0 x 7-0 x 1 3/4					4	EXISTING DOOR TO REMAIN, INSTALL NEW LOCKSET
F103	3-0 x 7-0 x 1 3/4	C	3	4		4	
F104	3-0 x 7-0 x 1 3/4						INSTALL NEW PUSH PLATE AND LOCK DOOR SHUT TO ENSURE NO USE
G101	3-0 x 7-0 x 1 3/4					4	EXISTING DOOR TO REMAIN, INSTALL NEW LOCKSET
G102	3-0 x 7-0 x 1 3/4					4	EXISTING DOOR TO REMAIN, INSTALL NEW LOCKSET
H101	3-0 x 7-0 x 1 3/4	C	3	4		4	
H102	3-0 x 7-0 x 1 3/4	C	7			8	SLIDING DOOR
I101	3-0 x 7-0 x 1 3/4					4	EXISTING DOOR TO REMAIN, INSTALL NEW LOCKSET
J101	3-0 x 7-0 x 1 3/4	C	3	4		4	
J102	3-0 x 7-0 x 1 3/4	C	7			8	SLIDING DOOR
K101	3-0 x 7-0 x 1 3/4					4	EXISTING DOOR TO REMAIN, INSTALL NEW LOCKSET
K102	3-0 x 7-0 x 1 3/4					4	EXISTING DOOR TO REMAIN, INSTALL NEW LOCKSET
K103	3-0 x 7-0 x 1 3/4	C	3	4		4	
K104	3-0 x 7-0 x 1 3/4						INSTALL NEW PUSH PLATE AND LOCK DOOR SHUT TO ENSURE NO USE
L101	3-0 x 7-0 x 1 3/4					4	EXISTING DOOR TO REMAIN, INSTALL NEW LOCKSET
L102	3-0 x 7-0 x 1 3/4					4	EXISTING DOOR TO REMAIN, INSTALL NEW LOCKSET
L103	3-0 x 7-0 x 1 3/4	C	3	4		4	
L104	3-0 x 7-0 x 1 3/4						INSTALL NEW PUSH PLATE AND LOCK DOOR SHUT TO ENSURE NO USE
M101	3-0 x 7-0 x 1 3/4					4	EXISTING DOOR TO REMAIN, INSTALL NEW LOCKSET

FINISHING HARDWARE

Set Number 1
2 Exit Device - Sargent - 8700 - KL - 26D
6 Hinges - Hager - BB850 US26D 112 x 4 1/2
1 Threshold - National Guard - 427 DKB
2 Closer - Sargent - 1430 Parallel Arm - 26D
2 Bumper - Ives - 408 1/2 - US26D
1 Weather Stripping - National Guard - 1370 KB
2 Door Sweep - National Guard - 200DKB
8 Silencer

Set Number 2
1 Exit Device - Sargent - 8500 - KL - 26D
3 Hinges - Hager - BB850 US26D 4 1/2 x 4 1/2
1 Threshold - National Guard - 427 DKB
1 Closer - Sargent - 1430 Parallel Arm - 26D
1 Bumper - Ives - 408 1/2 - US26D
4 Silencer
1 Weather Stripping - National Guard - 1370 KB
1 Door Sweep - National Guard - 200DKB

Set Number 3
1 Lockset - Sargent - 65697 - KL - 26D
3 Hinges - Hager - BB850 US26D 4 1/2 x 4 1/2
1 Bumper - Ives - 408 1/2 - US26D
1 Kick Plate - 2'-10" x 8"
1 Closer - Sargent - 1430 Parallel Arm - 26D
4 Silencer

Set Number 4
1 Lockset - Sargent - 65605 - KL - 26D
3 Hinges - Hager - BB850 US26D 4 1/2 x 4 1/2
1 Bumper - Ives - 408 1/2 - US26D
4 Silencer

Set Number 5
1 Lockset - Sargent - 65115 - KL - 26D
3 Hinges - Hager - BB850 US26D 4 1/2 X 4 1/2
1 Bumper - Ives - 408 1/2 - US26D
1 Closer - Sargent - 1430 Parallel Arm - 26D
4 Silencer

Set Number 6
2 Exit Device - Sargent - 8700 - KL - 26D
6 Hinges - Hager - BB850 US26D 4 1/2 x 4 1/2
2 Closer - Sargent - 1430 Parallel Arm - 26D
2 Bumper - Ives - 408 1/2 - US26D
2 Electronic Hold Open Device Connected to the Fire Alarm System
8 Silencer

Set Number 7
1 Exit Device - Sargent - 8700 - KL - 26D
3 Hinges - Hager - BB850 US26D 4 1/2 x 4 1/2
1 Closer - Sargent - 1430 Parallel Arm - 26D
1 Bumper - Ives - 408 1/2 - US26D
1 Electronic Hold Open Device Connected to the Fire Alarm System
4 Silencer

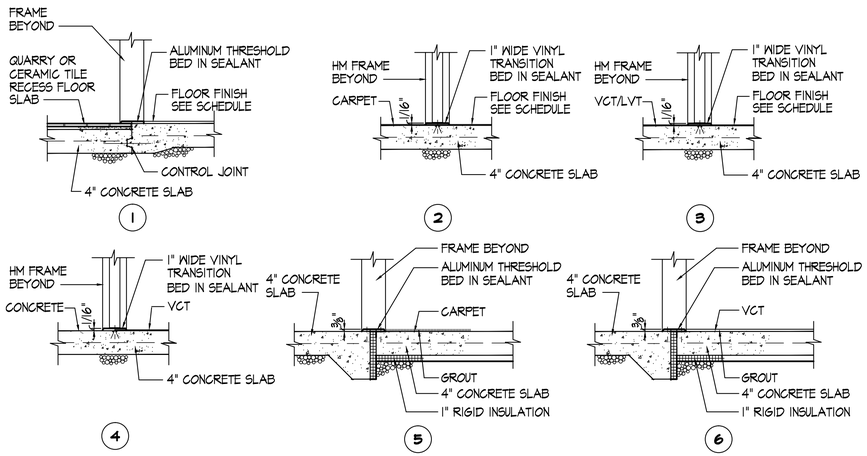
Set Number 8
1 Lockset - Sargent - 65493 - KL - 26D
1 Door Pull - Ives - 227 B26D
1 Box Trolley Track - Stanley - 411540
5 Side Mount Brackets - Stanley - 411900
2 End Caps - Stanley - 413561
2 Box Track Hangers - Stanley - 411003
1 Stay Roller - Stanley - 411008
1 Bumper - Ives - 406 1/2 - US26D

Set Number 9
1 Exit Device - Sargent - 8700 - KL - 26D
3 Hinges - Hager - BB850 US26D 4 1/2 x 4 1/2
1 Bumper - Ives - 408 1/2 - US26D
1 Closer - Sargent - 1430 Parallel Arm - 26D
4 Silencer

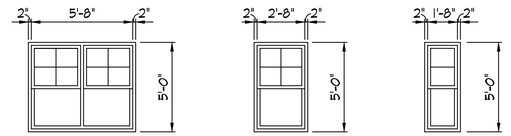
Set Number 10
1 Lockset - Sargent - 65637 - KL - 26D
3 Hinges - Hager - BB850 US26D 4 1/2 x 4 1/2
1 Bumper - Ives - 408 1/2 - US26D
1 Closer - Sargent - 1430 Parallel Arm - 26D
4 Silencer

Set Number 11
1 Lockset - Sargent - 65U14-2 - KL - 26D
2 Flush Bolts - Ives - 457 - US26D
6 Hinges - Hager - BB850 US26D 4 1/2 x 4 1/2
2 Bumper - Ives - 408 1/2 - US26D
2 Closer - Sargent - 1430 Parallel Arm - 26D
8 Silencer

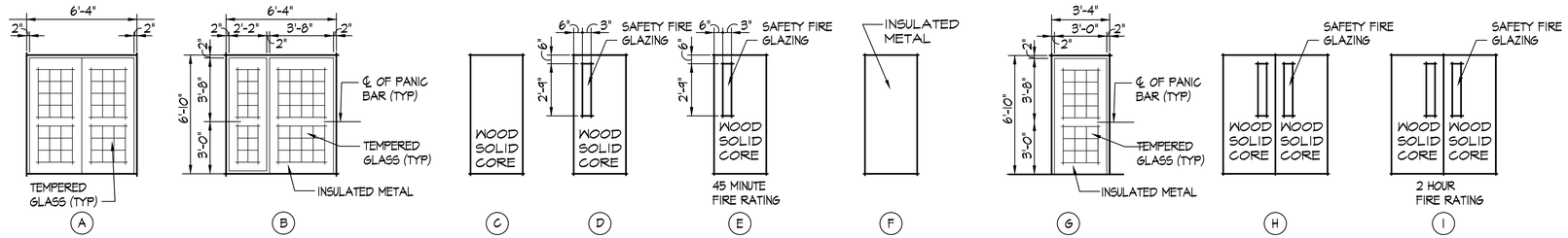
NOTE
ALL DOORS OVER 44" IN WIDTH SHALL HAVE 4 HINGES.



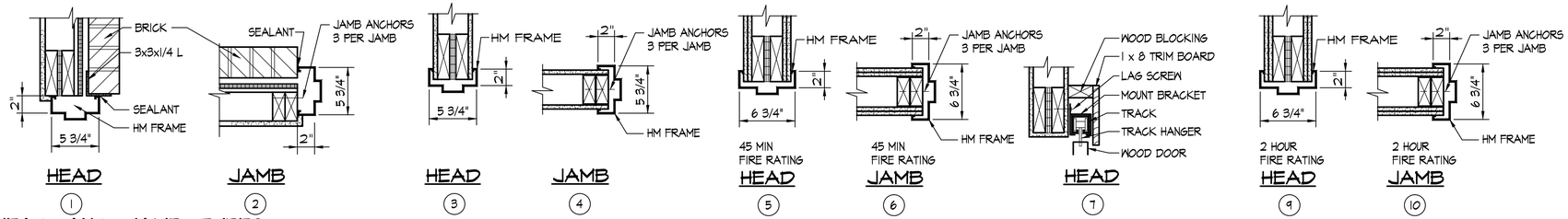
SILL TYPES
SCALE 1 1/2" = 1'-0"



WINDOW TYPES
SCALE 1/4" = 1'-0"



DOOR TYPES
SCALE 1/4" = 1'-0"



HEAD AND JAMB TYPES
SCALE 1 1/2" = 1'-0"

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FINISH LEGEND

CPT 1 - FIELD CARPET BROADLOOM
MFR: MANNINGTON COMMERCIAL
COLLECTION: OUTLOOK
STYLE: BENCHMARK III
COLOR: MARINE 3207

VCT - VINYL COMPOSITION TILE
MFR: MANNINGTON
COLOR: TO BE DETERMINED

SV 1 - WOOD PLANK FLOORING
MFR: AMTICO
COLOR: TO BE DETERMINED

SV 2 - SHEET VINYL FLOOR UNIT RESTROOMS
MFR: POLYFLOR POLYSAFE WOOD FX
COLOR: TO BE DETERMINED

QT - KITCHEN QUARRY TILE
MFR: DALTILE
COLOR: TO BE DETRMINED

CT 1 - FLOOR TILE
MFR: DALTILE
SERIES: SPARK
COLOR:SK51 EMBER FLARE
SIZE: 8" X 8"
INSTALLATION: BRICK
GROUT: MATCH CERAMIC TILE
WITH SEALANT

CT 2 - FLOOR TILE
MFR: DALTILE
SERIES: STRATFORD PLACE
COLOR: SD45 STRAFORD BLEND
SIZE: 2" X 2"
INSTALLATION: MOSAIC
GROUT: MATCH CERAMIC TILE
WITH SEALANT

CT 3 - WALL TILE
MFR: DALTILE
SERIES: RITTENHOUSE SQUARE
COLOR: 0739 MATTE CRISP LINEN (FIELD)
COLOR: 0766 MATTE ELEMENTAL TAN (ACCENT)
SIZE: 4" X 4"
INSTALLATION: FIELD
GROUT: MATCH CERAMIC TILE
WITH SEALANT

RB 1 - RUBBER BASE
MFR: MONTEGO
COLOR: COLOR TO BE DETERMINED
SIZE: 5.25

RB 2 - RUBBER BASE
MFR: MONTEGO
COLOR: COLOR TO BE DETERMINED
SIZE: 3.5

FRP - FIBERGLASS REINFORCED PANEL
MFR: KEMLITE
COLOR: TO BE DETERMINED

ACT - ACOUSTICAL CEILING TILE
MFR: ARMSTRONG CEILING TILE
TYPE: FINE FISSURED

FINISH SCHEDULE

MARK	SPACE	FLOOR FINISH								WALL MATERIAL			WALL FINISH					BASE MATERIAL						CEILING MATERIAL		CEILING HEIGHT	REMARKS
		CPT 1	VCT	SV 1	SV 2	QT	CT 1	CT 2	CONCRETE	GYPSUM	CMU	CONCRETE	PAINT	VINYL WALL COVERING	CT 3	FRP	RB 1	RB 2	QT	CT 1	CT 2	GYPSUM	ACT		
101	VESTIBULE						●			●			●							●		●			9'-0"	
102	LOBBY						●			●			●								●	●			VARIES	
103	RECEPTION						●			●			●								●	●			VARIES	
104	SPRINKLER ROOM		●							●			●					●				●			9'-0"	
105	TOILET				●					●			●					●				●			9'-0"	EPOXY PAINT ON CEILING
106	CORRIDOR	●								●			●				●							●	8'-0"	
107	OFFICE	●								●			●					●				●			9'-0"	
108	OFFICE	●								●			●					●				●			9'-0"	
109	BEAUTY SALON		●							●			●					●				●			9'-0"	
110	CORRIDOR	●								●			●				●							●	8'-0"	
111	CORRIDOR	●								●			●				●							●	8'-0"	
112	CORRIDOR	●								●			●				●							●	8'-0"	
113	CORRIDOR	●								●			●				●							●	8'-0"	
114	ELEVATOR EQUIPMENT		●							●			●					●				●			9'-0"	
115	OFFICE	●								●			●					●				●			9'-0"	
116	TOILET				●					●			●					●				●			9'-0"	EPOXY PAINT ON CEILING
117	SERVING AREA				●					●						●			●			●			9'-0"	
118	ACTIVITY/DINING			●						●			●				●					●			VARIES	
119	CHARTING	●								●			●					●				●			9'-0"	
120	MECH/ELEC		●							●			●					●				●			9'-0"	
121	LAUNDRY SERVICES		●							●						●		●				●			9'-0"	
122	STAFF	●								●			●					●				●			9'-0"	
123	TOILET				●					●			●					●				●			9'-0"	EPOXY PAINT ON CEILING
124	MED PREP		●							●			●					●				●			9'-0"	
125	NURSE'S STATION		●							●			●				●							●	8'-0"	
126	ACTIVITY/DINING			●						●			●				●					●			9'-0"	
127	SERVING AREA				●					●						●			●			●			9'-0"	
128	ACTIVITY/DINING			●						●			●				●					●			9'-0"	
129	TOILET				●					●			●					●				●			9'-0"	EPOXY PAINT ON CEILING
130	NURSE'S STATION		●							●			●				●							●	8'-0"	
131	MED PREP		●							●			●					●				●			9'-0"	
132	STAFF	●								●			●					●				●			9'-0"	
133	ACTIVITY/DINING			●						●			●				●					●			9'-0"	
134	PRIVATE DINING									●			●				●									EXISTING FLOOR AND CEILING TO REMAIN
135	SITTING AREA									●			●				●									EXISTING FLOOR AND CEILING TO REMAIN
136	LOBBY									●			●				●									EXISTING FLOOR AND CEILING TO REMAIN
137	EXERCISE / PT ROOM		●							●			●				●					●			9'-0"	
138	ACTIVITY ROOM									●			●				●									EXISTING FLOOR AND CEILING TO REMAIN
139	GAME ROOM									●			●				●									EXISTING FLOOR AND CEILING TO REMAIN
140	LIBRARY									●			●				●									EXISTING FLOOR AND CEILING TO REMAIN
141	LOUNGE / BISTRO									●			●				●									EXISTING FLOOR AND CEILING TO REMAIN
142	COFFEE BAR									●			●				●									EXISTING FLOOR AND CEILING TO REMAIN
143	THEATER / CHAPEL									●			●				●									EXISTING FLOOR AND CEILING TO REMAIN
201	CORRIDOR	●								●			●				●							●	VARIES	
202	CORRIDOR	●								●			●				●							●	VARIES	

NOTES
1. PROVIDE 1/2" CEMENTITOUS BACKER BOARD ON ALL WALLS RECEIVING CERAMIC TILE OR FIBERGLASS REINFORCED PANELS
2. PROVIDE FIBERGLASS REINFORCED PANELS ON ALL WALLS AT SERVICE SINKS AND CLINICAL SINKS
3. ALL FINISH MATERIALS SHALL MEET OR EXCEED THE REQUIREMENTS FOR CLASS B FINISHES (FLAME SPREAD 26-75, SMOKE DEVELOPMENR 0-450)
4. ALL GNB IN TOILET ROOMS, KITCHEN, BATHS, AND BEAUTY SALON SHALL BE MOISTURE RESISTANT.
5. ALL CERAMIC TILE SHALL BE THIN SET.
6. ALL CERAMIC TILE SHOWERS SHALL HAVE COMPOSITE PANS.
7. ALL BASE SHALL HAVE FACTORY MADE CORNERS.
8. RECESS SLABS FOR QUARRY TILE.
9. APPLY CLEAR SEALER TO ALL QUARRY TILE AS PER MANUFACTURERS RECOMMENDATIONS.
10. ALL RESIDENT ROOMS SHALL HAVE ONE ACCENT WALL OF CONTRASTING COLOR.

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ABBREVIATIONS & SYMBOLS

A
AHU - AIR HANDLING UNIT
ACOUSTICALLY LINED DUCT
AFF - ABOVE FINISH FLOOR
AMB - AMBIENT

B
BG - BOTTOM GRILLE
BR - BOTTOM REGISTER
BTU - BRITISH THERMAL UNIT

C
CD - CEILING DIFFUSER — AxB CD XXX CFM
CFM - CUBIC FEET PER MINUTE
CUH - CABINET UNIT HEATER
CU - CONDENSING UNIT
CRD - CEILING RADIATION DAMPER
CR - CEILING REGISTER
CG - CEILING GRILLE
CO - CARBON MONOXIDE SENSOR — CO

D
DIA - DIAMETER — ?? ∅
DB - DRY BULB

E
ER - EXHAUST REGISTER — AxB ER XXX CFM
ESP - EXTERNAL STATIC PRESSURE
EF - EXHAUST FAN

F
FD - FIRE DAMPER
FSD - FIRE/SMOKE DAMPER
FLEXIBLE DUCT
FLEXIBLE DUCT CONNECTOR

H
HP - HORSEPOWER
HP - HEAT PUMP

I
IV - INTAKE VENT

K
KW - KILOWATT
KH - KITCHEN HOOD

L
LVR - LOUVER

M
MVD - MANUAL VOLUMN DAMPER
MOD - MOTOR OPERATED DAMPER
MCA - MAXIMUM CIRCUIT AMPS
MOCP - MAXIMUM OVER CURRENT PROTECTION
MUA - MAKE UP AIR

N
NTS - NOT TO SCALE

O
OA - OUTSIDE AIR

P
PH - PENTHOUSE

R
RA - RETURN AIR
RR - RETURN REGISTER — AxB RR XXX CFM
RTU - ROOFTOP UNIT
RP - RADIANT PANEL
RV - RELIEF VENT
RPM - REVOLUTIONS PER MINUTE

S
SA - SUPPLY AIR
SWG - SIDEWALL GRILLE
SWR - SIDEWALL REGISTER
SWSR - SIDEWALL SUPPLY REGISTER
SP - STATIC PRESSURE
SD - SMOKE DAMPER — SD
SD - SMOKE DETECTOR — SD
SENS - SENSIBLE

T
T'STAT - THERMOSTAT — T
TG - TOP GRILLE — AxB TG XXX CFM
TR - TOP REGISTER — AxB TR XXX CFM
TW - THRU WALL

U
UH - UNIT HEATER
UNDER CUT — 3/4"

W
WATERTIGHT DUCT WITH WATER STOP - WS — WS
WB - WET BULB

MECHANICAL GENERAL NOTES

1. SEE SHEET ARCHITECTURAL DRAWINGS FOR FIRE RATED ASSEMBLIES, THEIR DEFINITIONS AND LOCATIONS.
2. DO NOT SCALE DRAWINGS, SEE ARCHITECTURAL DRAWINGS & REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DOORS, WINDOWS, CEILING DIFFUSERS, ETC..
3. ALL SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED WITH A INSTALLED "R" VALUE OF R-6 OR GREATER WHEN LOCATED IN UNCONDITIONED SPACES AND AT 25% COMPRESSION. DUCT WRAP SHALL BE A MINIMUM OF 2" THICK x 1.01 PCF.
4. SEE PLANS AND DETAILS FOR DUCT LINER LOCATIONS. DUCT LINER SHALL BE A MINIMUM OF 1" THICK x 1.5 PCF.
5. ALL DUCTWORK DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.
6. LOCATE THERMOSTATS 5'-0" ABOVE FINISH FLOOR.
7. HVAC CONTRACTOR SHALL PROVIDE AND INSTALL FIRE AND / OR SMOKE DAMPERS WHERE INDICATED ON PLANS AND IN SUCH LOCATIONS AS REQUIRED BY APPLICABLE CODES. INSTALLATION OF FIRE AND / OR SMOKE DAMPERS SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
8. DUCTWORK SHALL BE G-90 GALVANIZED CONSTRUCTION IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS. FIBERGLASS DUCTWORK IS UNACCEPTABLE.
9. HVAC CONTRACTOR SHALL VERIFY ALL JOBSITE CONDITIONS BEFORE STARTING DUCT FABRICATION.
10. CONTRACTOR SHALL PROVIDE A MANUAL VOLUME DAMPER AT EACH BRANCH DUCT.
11. FOR AIR DEVICES - SEE GRILLES, REGISTERS, AND DIFFUSER SCHEDULE.
12. DUCT SMOKE DETECTORS TO BE WIRED TO SHUT DOWN THE AIR HANDLING UNIT WHEN ACTIVATED. THE DUCT DETECTORS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM. WHEN ACTIVATED THE DUCT SMOKE DETECTORS SHALL ACTIVATE A VISIBLE AND AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION.
13. THE HVAC CONTRACTOR SHALL INSTALL OWNER FURNISHED KITCHEN EQUIPMENT, INCLUDING HOODS AND ASSOCIATED FANS. THE HVAC CONTRACTOR SHALL ALSO FURNISH AND INSTALL SPECIFIED EXHAUST AND SUPPLY DUCTWORK.
14. DUCT MOUNTED FIRE / SMOKE DAMPERS TO BE WIRED TO CLOSE DAMPER IN DUCTWORK UPON RECEIVING A SIGNAL FROM DUCT MOUNTED DETECTORS. DUCT DETECTORS AND SMOKE DAMPERS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM AND SHALL ACTIVATE A VISIBLE AND AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION.
15. INTERLOCK WALL MOUNTED MOTOR OPERATED DAMPERS WITH WATER HEATER AND DRYER TO PROVIDE REQUIRED COMBUSTION AND MAKEUP AIR FOR LAUNDRY EQUIPMENT.
16. FIRE DAMPERS SHALL BE EQUAL TO RUSKIN MODEL IBD-20 WITH INTERGRAL SLEEVES. ACCESS DOORS SHALL BE PROVIDED.
17. FIRE / SMOKE DAMPERS SHALL BE EQUAL TO RUSKIN MODEL FSD35 COMPLETE W/SLEEVES, ADs, & OPERATORS.
18. CEILING RADIATION DAMPERS SHALL BE EQUAL TO RUSKIN MODEL CFD2 FOR SQUARE OR RECTANGULAR AND CFDR2 FOR ROUND.
19. FIRE DAMPERS BEHIND GRILLES SHALL BE EQUAL TO RUSKIN MODEL IBDTG.
20. UNLESS OTHERWISE INDICATED ALL DUCTWORK, PIPE AND FITTINGS SHALL BE INSTALLED IN THE ATTIC SPACE OF THIS BUILDING.
21. CONNECT ALL EXHAUST FANS TO FIRE ALARM SYSTEM SUPPLIED UNDER DIVISION 16.
22. SMOKE DAMPERS SHALL BE EQUAL TO RUSKIN SD35 AND BE COMPLETE W/SLEEVES, ACCESS DOORS, SMOKE DETECTOR, SWITCH PACKAGE, & ACTUATOR.
23. UNLESS OTHERWISE INDICATED ALL DUCTWORK, PIPE AND FITTINGS SHALL BE INSTALLED IN THE ATTIC SPACE OF THIS BUILDING.
24. LOUVERS SHALL BE EQUAL TO RUSKIN MODEL ELF6375DX WITH BIRD SCREEN AND KYNAR FINISH. COLOR BY ARCHITECT.
25. LINEN CHUTE VENT (LCV-1) SHALL BE EQUAL TO GREENHECK MODEL GRSR-10 COMPLETE WITH FLASHING FLANGE & INSECT SCREEN.
26. ALL KITCHEN HVAC EQIUPMENT SHALL BE SERVICED AND REPAIRED AS NECESSARY UNDER SEPERATE CONTRACT.

(A) ◂◂◂◂◂◂◂◂◂◂ FIRE BARRIER (1 HOUR ASSEMBLY - UL TEST U 305)
THE ASSEMBLY SHALL BE CONSTRUCTED AS INDICATED BY THE ASSEMBLY TYPE AND THE REFERENCED TESTING STANDARD. FIRE BARRIERS SHALL EXTEND FROM THE TOP OF THE FOUNDATION OR FLOOR/CEILING ASSEMBLY BELOW TO THE UNDERSIDE OF THE FLOOR OR ROOF SLAB OR DECK ABOVE AND SHALL BE SECURELY ATTACHED THERETO. OPENINGS IN THE FIRE BARRIERS SHALL BE PROTECTED WITH ¾ HOUR RATED ELEMENTS. THE DOORS AND FRAMES SHALL HAVE A LABEL AS INDICATED ON THE DOOR SCHEDULE AND DETAILS.

(C) – – – – SMOKE PARTITION
THIS ASSEMBLY SHALL BE CONSTRUCTED TO EXTEND FROM THE TOP OF THE FOUNDATION OR FLOOR BELOW TO THE UNDERSIDE OF THE CEILING MEMBRANE AND BE CONSTRUCTED TO LIMIT THE TRANSFER OF SMOKE

(D) XXXX FIRE BARRIER (2 HOUR ASSEMBLY - UL TEST U 415)
THIS ASSEMBLY SHALL BE CONSTRUCTED AS A SHAFT WALL LINER (SYSTEM 'C')

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ROOFTOP SCHEDULE ===== TRANE

MARK	CFM	OA CFM	ESP	EER (MIN)	VOLTAGE	ROOFTOP MODEL#	COOLING		HEATING		ELECTRICAL		ACCESSORIES
							TC	SC	INPUT	OUTPUT	MCA	MOCP	
RTU-1	1600	710	1.0	13	208/3 PH	YSD048G3	49.0	41.5	130	105	26	35	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
RTU-2	3000	300	0.9	13	208/3 PH	YSD072G3	75.0	55.0	150	120	35	50	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13

EQUIPMENT ACCESSORIES:

1. CIRCUIT BREAKERS
2. UL LISTED
3. SINGLE POINT POWER CONNECTION
4. FROSTAT
5. PROGRAMMABLE TOUCHSCREEN T'STAT W/ LOCKING COVER.
6. R-410a REFRIGERANT
7. HINGED ACCESS PANELS
8. NON-POWERED CONVENIENCE OUTLET
9. 14" HIGH ROOF CURB
10. ECONOMIZER W/ENTHALPY CONTROL
11. LOW AMBIENT KIT
12. 2" MERV 8 PLEATED FILTERS
13. RETURN SMOKE DETECTOR

NOTES:

1. UNIT CONTROLS SHALL BE COMPLETELY FACTORY WIRED TO ALLOW FOR STAGING OF COMPRESSORS, FANS AND HEATERS.
2. ALL UNITS TO BE BELT DRIVE.
3. ALL UNITS TO BE SUPPLIED WITH MOTORIZED OUTSIDE AIR DAMPER.

GRILLE, REGISTER, AND DIFFUSER SCHDULE -- PRICE

MARK	SERVICE	MAX CFM	NECK SIZE	MAX PD	DEVICE TYPE	MODEL NUMBER	FRAME TYPE	COLOR
CD-1	SA	125	6x6	.10	LOUVERED FACE	SMDA-FR	SEE FIN. SCHD.	BI2
CD-2	SA	340	9x9	.10	LOUVERED FACE	SMDA-FR	SEE FIN. SCHD.	BI2
CD-3	SA	600	12x12	.10	LOUVERED FACE	SMDA-FR	SEE FIN. SCHD.	BI2
CR-1	EA/RA	125	6x6	.05	SINGLE DEFLECTION	535D	SEE FIN. SCHD.	BI2
CR-2	EA/RA	245	8x8	.05	SINGLE DEFLECTION	535D	SEE FIN. SCHD.	BI2
CR-3	EA/RA	355	10x10	.05	SINGLE DEFLECTION	535D	SEE FIN. SCHD.	BI2
CR-4	EA/RA	545	12x12	.05	SINGLE DEFLECTION	535D	SEE FIN. SCHD.	BI2
CR-5	EA/RA	735	14x14	.05	SINGLE DEFLECTION	535D	SEE FIN. SCHD.	BI2
CR-6	EA/RA	935	16x16	.05	SINGLE DEFLECTION	535D	SEE FIN. SCHD.	BI2
CR-7	EA/RA	1,450	18x18	.05	SINGLE DEFLECTION	535D	SEE FIN. SCHD.	BI2
CR-8	EA/RA	2,000	22x22	.05	SINGLE DEFLECTION	535D	SEE FIN. SCHD.	BI2
CR-9	EA/RA	2,400	20x28	.05	SINGLE DEFLECTION	535D	SEE FIN. SCHD.	BI2

NOTES:

1. ALL DAMPERS TO OPPOSED BLADE TYPE
2. AIR DEVICES TO BE STEEL CONSTRUCTION.
3. ALL AIR DEVICES 1" LARGER, IN ANY DIRECTION, THAN THE RADIATION DAMPER. SHALL REQUIRE A THERMAL BLANKET.
4. CG, TR, TG, & ER SIMILAR TO 635D. "G" INDICATES GRILLE ONLY - NO DAMPER.
5. FINISH BI2 TO BE WHITE POWDER COAT.

DUCTLESS HEAT PUMP SPLIT SYSTEMS --- MITSUBISHI

MARK	COOLING CAPACITY			ELECTRICAL					MODEL NUMBER	AREA SERVED	ACCESSORIES
	TOTAL MBH	ENT. AIR Fdb/Fwb	O. D. AIR Max / °F	VOLTAGE	INDOOR UNIT MCA	INDOOR UNIT MOCP	OUTDOOR UNIT MCA	OUTDOOR UNIT MOCP			
DSSHP-1	12.0	80/67	115	208/1P	1.0	15	12.0	15	MUZ-FE12NA MSZ-FE12NA	ELEVATOR EQUIP.	SEE BELOW

NOTES & ACCESSORIES:

1. PROVIDE LOW AMBIENT CONTROLS
2. WIRELESS CONTROLLER FOR INDOOR UNIT.
3. POWER DISCONNECT SWITCH AT OUTDOOR UNIT.
4. EQUIPMENT PAD AND PLATFORM STAND FOR HEAT PUMP UNIT.
5. PRECHARGED LINE SETS
6. PROVIDE R-410A REFRIGERANT
7. PROVIDE AUTO RESTART CAPABILITY
8. PROVIDE 1 SET OF SPARE FILTERS.
9. PROVIDE 5 YEAR PARTS WARRANTY
10. PROVIDE 7 YEAR COMPRESSOR WARRANTY

MECHANICAL INTAKE OR EXHAUST LOUVERS --- RUSKIN

MARK	CFM	SIZE		MOD	MODEL	ACCESSORIES
		W	H			
LVR-1	300	18	12	YES	ELF6375DX	SEE BELOW

ACCESSORIES:

1. INSECT SCREEN
2. MOTORIZED DAMPER
3. 120V OPERATOR
4. FRONT FLANGE
5. BAKED ENAMEL FINISH
6. COLOR BY ARCHITECT

FAN SCHEDULE ----- GREENHECK

MARK	CFM	SP	HP	VOLTAGE	SONES	MODEL #	SERVICE AREA	ACCESSORIES
EF-1	300	.25	135W	115/1	4.5	SP-A390	SPRINKLER 104	SEE BELOW
EF-2	225	.25	102W	115/1	2.0	CSP-A290	TOILETS	SEE BELOW
EF-3	300	.25	135W	115/1	4.5	SP-A390	MECH/ELEC 120	SEE BELOW

ACCESSORIES

1. DISCONNECT SWITCH
2. UL RATED
3. EF-1, EF-3 - CEILING RADIATION DMPR.
4. EF-1, EF-3 - WHITE ALUMINUM GRILLE
5. SPEED CONTROL
6. LINE VOLTAGE T'STAT.
7. WALL CAP DISCHARGE
8. ALUMINUM FAN WHEEL
9. VIBRATION ISOLATION
10. RUNS CONTINUOUSLY

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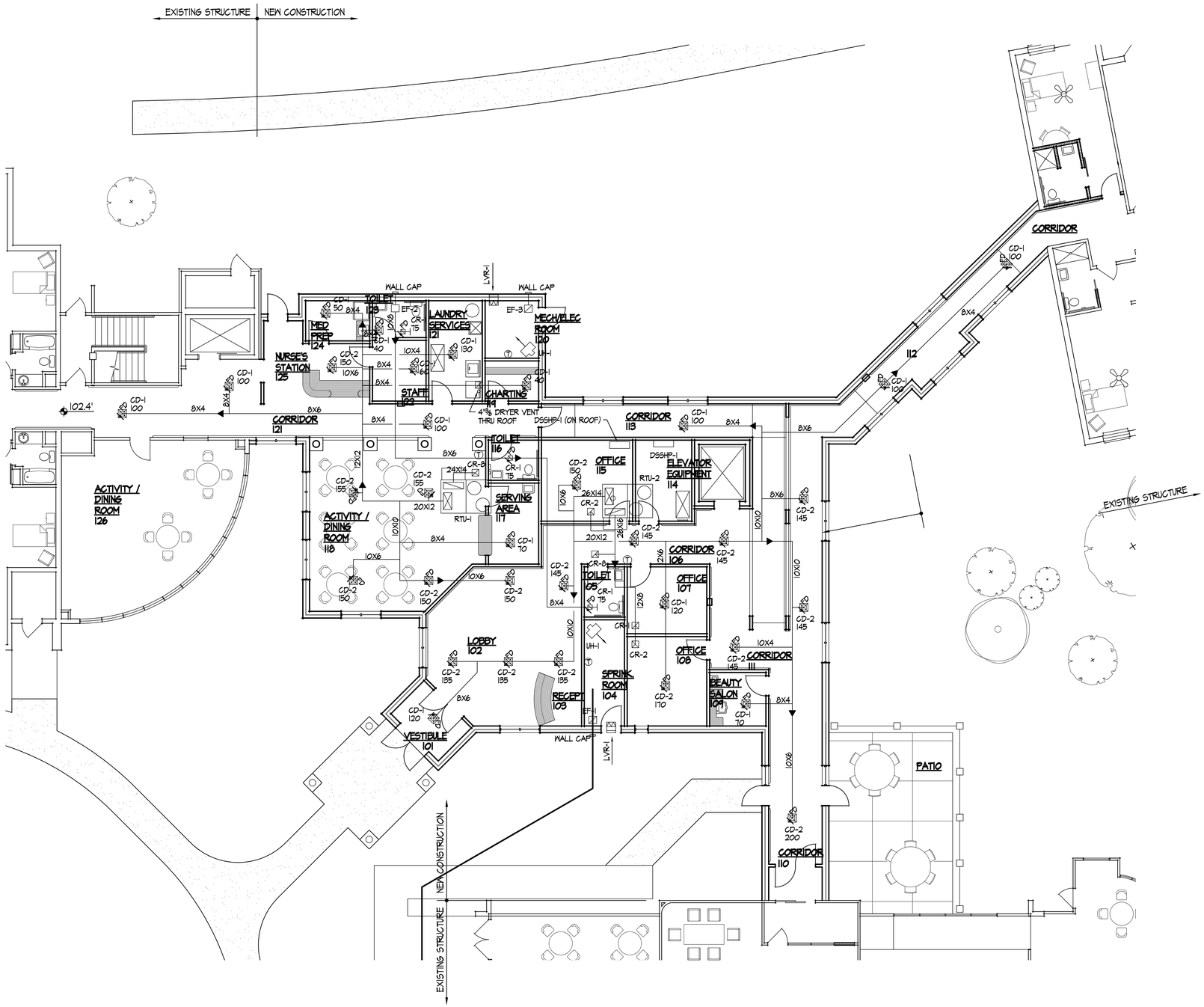

MECHANICAL FLOOR PLAN LEVEL ONE - AREA D

SCALE 1/8" = 1'-0"

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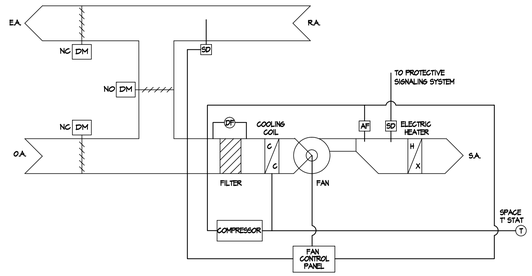


TYPICAL ROOF TOP UNIT W/ECONOMIZER CONTROL SCHEMATIC

SEQUENCE OF OPERATION

ROOFTOP HEAT PUMP EQUIPMENT

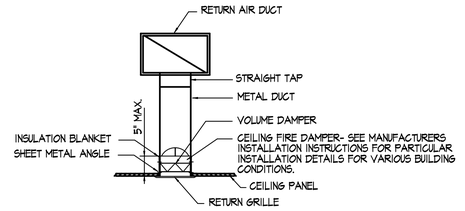
RTU-1, TYP

1. ROOF TOP UNIT:
   A. FAN SHALL OPERATE CONTINUOUSLY.
   B. THE FAN SHALL BE AUTOMATICLY SHUT DOWN UPON DETECTION OF SMOKE BY ITS ASSOCIATED DUCT SMOKE DETECTOR OR UPON A SIGNAL FROM THE FIRE ALARM SYSTEM.
2. COOLING MODE:
   A. UPON A CALL FOR COOLING IS SENSED BY THE SPACE THERMOSTAT, THE HEAT PUMP SHALL BE ENERGIZED. WHEN SPACE TEMPERATURE IS SATISFIED, THE HEAT PUMP SHALL DE-ENERGIZE.
3. HEATING MODE:
   A. UPON A CALL FOR HEATING IS SENSED BY THE SPACE THERMOSTAT, THE HEAT PUMP SHALL BE ENERGIZED, IF THE SPACE TEMPERATURE HAS NOT SATISFIED, THE ELECTRIC HEATER SHALL BE ENERGIZED TO SATISFY THE THERMOSTAT. WHEN THE THERMOSTAT IS SATISFIED, THE HEAT PUMP AND ELECTRIC HEATER SHALL DE-ENERGIZED.
4. SMOKE DETECTOR:
   A. IF SMOKE IS DETECTED BY THE DUCT MOUNTED SMOKE DETECTOR, ONE SET OF SMOKE DETECTOR CONTACTS DE-ENERGIZES ITS ASSOCIATED AHU FAN. ANOTHER SET OF CONTACTS IN THE SMOKE DETECTOR IS INTERFACED WITH THE BUILDING PROTECTIVE SIGNALING SYSTEM. UPON ACTIVATION OF THE BUILDING PROTECTIVE SIGNALING SYSTEM BY SMOKE OR FIRE, ALL AIR HANDLING UNITS AND EXHAUST FANS ARE TO BE DE-ENERGIZED.

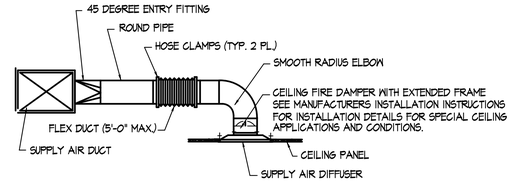
NOTES

1. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH MECHANICAL CONTRACTOR IN ORDER TO ASSURE SHUT DOWN OF ALL AIR HANDLING UNITS AND/OR APPLICABLE VENTILATION DAMPERS WHEN ALARM IS ACTIVATED.
2. FIRE ALARM CONTRACTOR SHALL WIRE ALL INTERLOCKED UNITS ABOVE TO FIRE ALARM PANEL.
3. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, WIRING AND TESTING OF ALL HAVOC ALARM CONTROL AND MONITORING DEVICES.

CONTROLS



RETURN AIR CONNECTION DETAIL
NOT TO SCALE



SUPPLY AIR DIFFUSER CONNECTION DETAIL
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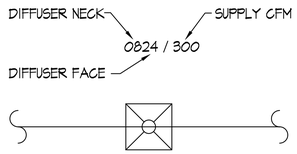
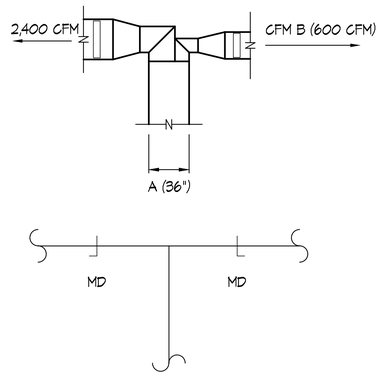


DIFFUSER SIZING DETAIL
NOT TO SCALE



TEE - BRANCH DUCT DETAIL
NOT TO SCALE

A - WIDTH OF DUCT MAIN BEFORE TEE
B - WIDTH OF GIVEN BRANCH
CFM A - TOTAL AIR QUANTITY PASSING THRU DUCT @ A
CFM B - AIR QUANTITY REMOVED @ BRANCH B

$$B = \frac{CFM - B}{CFM - A} \times A$$

EXAMPLE -
CFM A = 3,000 CFM
CFM B = 600 CFM
A = 36"

$$7.2 = \frac{600}{3,000} \times 36"$$

SAY B = 7" (7.2" ROUNDED OF TO THE NEAREST .5")

STANDARD DETAILS
SCALE: NTS

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JONES & JONES ASSOCIATES / ARCHITECTS PC

ABBREVIATIONS & SYMBOLS

A
AHU - AIR HANDLING UNIT
AFF - ABOVE FINISH FLOOR
ASTM - AMERICAN SOCIETY FOR TESTING AND MATERIALS
AQUASTAT-

B
BFF - BELOW FINISHED FLOOR
BTU - BRITISH THERMAL UNIT
BALL VALVE
BFP - BACKFLOW PREVENTER
BALL VALVE - ANGLE
BUTTERFLY VALVE

C
CU - CONDENSING UNIT
CHECK VALVE (FULL FLOW)
CHECK VALVE

D
DIA - DIAMETER ?? Ø

F
FD - FLOOR DRAIN
FLEX - FLEXIBLE PIPING

G
GATE VALVE -
GLOBE VALVE -

H
HP - HORSEPOWER
HP - HEAT PUMP

I
IP - INLINE PUMP

M
MCA - MAXIMUM CIRCUIT AMPS
MOCP - MAXIMUM OVER CURRENT PROTECTION

N
NTS - NOT TO SCALE
NTP - NO TRAP PRIMER
NEDDLE VALVE

P
PRESSURE RELIEF VALVE
POU - POINT OF USE
PLUMBING FIXTURE NUMBER (P22)
PRESSURE REDUCING VALVE

R
RV - RELIEF VENT
RL - RAIN LEADER
RD - ROOF DRAIN

T
T'STAT - THERMOSTAT (T)
THERMOMETER
TMV - THERMOSTATIC MIXING VALVE

U
UNION

V
VTR - VENT THROUGH ROOF
VERT - VERTICAL

PLUMBING SCHEDULE

MARK	FIXTURE	WATER HW	WATER CW	WATER WASTE	STOPS / VALVES	MANUF.	MODEL	REMARKS
P 1	WATER CLOSET HANDICAPPED	----	1/2"	3"	1/2"X3/8" ANGLE	AMERICAN STANDARD	2002.014	CHAMPION 4, ADA COMPLIANT, ELONGATED BOWL, INSTALL PER HANDICAP REQUIREMENTS. ELONGATED CHURCH SEAT #1357T.
P 2	LAVATORY WALL HUNG	—	—	—	N O T U S E D	—	—	
P 3	SINK, COUNTER TOP SELF-RIMMING	—	—	—	N O T U S E D	—	—	
P 4	SINK, SINGLE COMP. KITCHEN	1/2"	1/2"	1 1/2"	1/2"X3/8" ANGLE	ELKAY	CR2521	MOEN #8780 CHROME FAUCET W/O SIDE SPRAY, CHROME P-TRAP, RISER, ANGLE STOP, AND ESCUTCHEON
P 5	BEAUTY SINK							
P 6	MOP SINK	1/2"	1/2"	2"	————	FIAT	MSB2424	889CC MOP HANGER, 832 AA HOSE AND HOSE BRACKET, 830 AA FAUCET AND VACUUM BREAKER, 1453 BB STRAINER.
P 7	SHOWER VALVE	—	—	—	N O T U S E D	—	—	
P 8	SOLIDS INTERCEPTOR	—	—	—	N O T U S E D	—	—	
P 9	LAUNDRY SINK FLR. MTD.	—	—	—	N O T U S E D	—	—	
P 10	CLINICAL SINK W/ BEDPAN WASHER	—	—	—	N O T U S E D	—	—	
P 11	FLOOR DRAIN	—	—	4"	————	J. R. SMITH	2005-A-NB	REINFORCED SQUARE ADJ. STRAINER WITH SURE SEAL TRAP PROTECTION
P 12	OUTSIDE HOSE BIBB	—	3/4"	—	————	WOODFORD	25CP	AUTO DRAINING, FREEZELESS, VACUUM BREAKER, ANTI-SIPHON.
P 13	SINK, DOUBLE COMP. KITCHEN	—	—	—	N O T U S E D	—	—	
P 14	FLOOR SINK	—	—	—	N O T U S E D	—	—	
P 15	FINISH FLOOR CLEANOUT	—	—	4"	————	J. R. SMITH	4113	ROUND NICKEL BRONZE TOP, EXTRA HEAVY DUTY, TWIS-TO-FLOOR ADJUSTMENT
P 16	EXTERIOR CLEANOUT	—	—	4"	————	J. R. SMITH	4240	ROUND CAST IRON TOP, TRACTOR COVER, TWIS-TO-FLOOR ADJUSTMENT
P 17		—	—	—	N O T U S E D	—	—	
P 18	CIRCULATING PUMP	—	1"	—	————	TACO	0014-BF1-1 1FC	3 GPM @ 20 FT HD @ 115V / 1 PH
P 19	EXPANSION TANK	—	3/4"	—	BALL	WATTS	DETA 12	CARBON STEEL, ASME SECTION VIII CONSTRUCTION, PRECHARGED TO 40 PSI, FDA APPROVED BUTYL RUBBER BLADDER, PRIME PAINTED EXTERIOR.
P 20		—	—	—	N O T U S E D	—	—	
P 21	WATER HEATER	1 1/2"	1 1/2"	—	BALL	STATE	SHE50-76	76 MBH GAS BURNER, INTAKE & EXHAUST VENTING, UL, LOW NOX, 96% EFFIENCY, 150 PSI MAX PRESSURE, 3" PVC INTAKE & EXHAUST W/CONCENTRIC VENT KIT
P 22	HOT WATER STORAGE TANK	—	—	—	N O T U S E D	—	—	
P 23	FLOOR DRAIN	—	—	—	N O T U S E D	—	—	
P 24	EMERGENCY FACE SHOWER	—	—	—	N O T U S E D	—	—	
P 25	EMERGENCY FACE SHOWER	—	—	—	N O T U S E D	—	—	
P 26	INDIRECT WASTE RECEPTOR	—	—	—	N O T U S E D	—	—	
P 27	HAND SINK WALL HUNG	1/2"	1/2"	1 1/2"	1/2"X3/8" ANGLE	ADVANCE	7-PS-66-2X	COMPLETE WITH FAUCET & DRAIN ASSEMBLY-BY KITCHEN EQUIPMENT SUPPLIER
P 28	TRAP PRIMER VALVE	—	—	—	N O T U S E D	—	—	
P 29	ICEMAKER BOX	—	—	—	N O T U S E D	—	—	
P 30	60" SHOWER	—	—	—	N O T U S E D	—	—	
P 31	MOP SINK	—	—	—	N O T U S E D	—	—	
P 32	ROOF DRAIN	—	—	4"	————	J. R. SMITH	1320Y	ALUMINUM DOME STRAINER
P 33	TUB / SHOWER	—	—	—	N O T U S E D	—	—	
P 34	WATER HEATER	—	—	—	N O T U S E D	—	—	
P 35	LAVATORY WALL HUNG	1/2"	1/2"	1 1/4"	1/2"X3/8" ANGLE	AMERICAN STANDARD	0356.015	MOEN FAUCET #8886 W/ADJUST. CYCLE TIME, 4" CENTER, ADA, MOLDED DRAIN & SUPPLY COVERS, ANGLE STOPS, AND ESCUTCHEONS. PROVIDE "TMV" AT FIXTURE.
P 36	WALL CLEANOUT	—	—	MATCH	————	J. R. SMITH	4710	STAINLESS STEEL, SHALLOW COVER.
P 37	TEMPERATURE MIXING VALVE	1 1/2"	1 1/2"	—	BALL	WATTS	LFN170-M3 -CSUT	LEAD FREE BRASS BODY, ASSE 170 & IAPMO LISTED, PARAFFIN-BASED T'STAT., VANDAL RESISTANT, 125psig MAX PRESS., 200° MAX TEMP., FACTORY TESTED.
P 38		—	—	—	N O T U S E D	—	—	
P 39		—	—	—	N O T U S E D	—	—	
P 40	LARGE CAPACITY FLOOR SINK	—	—	—	N O T U S E D	—	—	
P 41	SUMP PUMP W/ELEV SUMP PUMP KIT	—	—	2"	————	RED JACKET PUMPS	2EP0511	2" DISCHARGE, 50 GPM @ 24' HEAD, CAST IRON CASING, CAST IRON IMPELLER, OIL SMART SWITCH & ALARM, OIL SMART PANEL, & 115V, 14.5 AMP, 54% EFF.
P 42	WASHER BOX	1/2"	1/2"	2"	1/2"X1/2" ANGLE	GUY GREY	B200C	20GA G90 GALV. STEEL BOX W/2" THREADED DRAIN, ASME 112.18.1 VALVES
P 43	DRYER BOX	—	—	3"	————	GUY GRAY	DB350	22 GA ALUMINIZED STEEL FOR 2x4 WALL/ROOF CAP
P 44	CAN WASH DRAIN	—	—	—	N O T U S E D	—	—	

PLUMBING SCHEDULE NOTES

A. PROVIDE DIAPHRAGM THERMAL EXPANSION TANK PIB WITH EACH WATER HEATER INSTALLATION

B. PROVIDE LEFT HAND OR RIGHT HAND TANK SUCH THAT FLUSH LEVER IS ON THE ACCESSIBLE SIDE OF THE WATER CLOSET.

C. PROVIDE FULL GRATE, THREE QUARTER OR HALF GRATE FOR FLOOR SINK AS REQUIRED BY KITCHEN EQUIPMENT VENDOR.

D. PROVIDE IN-LINE LEAD FREE BACKFLOW PREVENTER FOR KITCHEN EQUIPMENT SUCH AS DISHWASHER & ICE MAKER EQUAL TO WILKINS MODEL 700XL.

E. PROVIDE PLASTIC WALL BOX WITH SHUT-OFF FOR COLD WATER SUPPLY TO ICE MACHINES, COFFEE & TEA BREWERS, AND REFRIGERATORS. PROVIDE BACK FLOW PREVENTORS AND IN-LINE FILTER IN ACCESSIBLE LOCATION.

F. PROVIDE SHOCK ARRESTORS ON WATER LINES WITH FAST CLOSING VALVES. INSTALL IN ACCESSIBLE LOCATION.

G. ALL EXPOSED PIPING SHALL BE INCASED WITH FORMED SNAP LOCK INSULATION.

H. SEE PLANS FOR FLOOR DRAIN P11 TRAP PRIMER LOCATIONS.

J. ALL SHOWER CONTROL VALVES SHALL BE FRONT ACCESS. SEE ARCHITECTURAL PLANS FOR CONTROL LOCATIONS.

K. SEE SHEET P2.2 FOR FIRESTOPPING INFORMATION AND DETAILS.

L. PROVIDE THERMOSTATIC MIXING VALVES THAT MEET ASSE 1070 & ASSE 1017 STANDARD.

PLUMBING PIPE MATERIALS

WATER: UNDERGROUND - COPPER, TYPE K; ABOVE GROUND - COPPER, TYPE L OR CPVC, SCHEDULE 40.

SANITARY WASTE: PVC SCHEDULE 40 DWV, EXCEPT USE CAST IRON WHERE INDICATED FOR HIGH TEMPERATURE.

SANITARY VENT: PVC SCHEDULE 40 DWV.

NATURAL GAS or PROPANE: BLACK STEEL, SCHEDULE 40. SEE GAS RISER SCHMATIC FOR ADDITIONAL INFORMATION.

PIPE INSULATION: SHALL MEET OR EXCEED ALL LOCAL CODES INCULDING BUT NOT LIMITED TO THE 2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) & 2009 INTERNATIONAL PLUMBING CODE (IPC). RECIRCULATING HOT WATER RETURN SHALL HAVE A MINIMUM OF 1" OF INSULATION.

PIPE INSULATION CHART BELOW IS BASED "AP ARMAFLEX & NH ARMAFLEX INSULATION

PLUMBING PIPE:	UP TO 2"	OVER 2" TO 4"	OVER 4" TO 6"	OVER 6"
COLD WATER	0.5"	0.5"	0.5"	0.75"
HOT WATER (120° OR LESS)	0.5"	0.5"	0.75"	0.75"
HOT WATER (ABOVE 120°)	0.75"	0.75"	1.00"	1.00"
ROOF DRAINS	0.5"	0.5"	0.5"	0.75"
STORM DRAINS	0.5"	0.5"	0.75"	0.75"
CONDENSATE DRAINS	0.5"	0.75"	-----	-----
REFRIGERATION				
ABOVE 25°	0.75"	0.75"	1.00"	1.00"
11° TO 25°	1.00"	1.00"	1.00"	1.25"
-10° TO 10°	1.00"	1.25"	1.25"	1.50"
BELOW -10°	1.25"	1.25"	1.50"	1.50"

INSULATION MUST HAVE A MINIMUM R VALUE OF 2.0 OR MORE AND COMPLY WITH THE INTERNATIONAL ENERGY CODE.

PLUMBING GENERAL NOTES

1. DO NOT SCALE DRAWINGS, SEE ARCHITECTURAL DRAWINGS & REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DOORS, WINDOWS, CEILING DIFFUSERS, ETC..
2. PLUMBING CONTRACTOR SHALL VERIFY ALL JOB SITE CONDITIONS PRIOR TO COMMENCING WORK.
3. SEE SHEET A1.1 FOR FIRE RATED ASSEMBLIES AND THEIR DEFINITIONS AND LOCATIONS.
4. PLUMBING CONTRACTOR SHALL INSTALL OWNER FURNISHED EQUIPMENT.
5. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL FLEXIBLE EXPANSION JOINTS IN STORM WATER PIPING AS SHOWN ON PLANS. EXPANSION JOINTS SHALL BE EQUAL TO: 4" AND DN FERNCO MODEL X-1, ABOVE 4" GENERAL RUBBER SERIES 1082 OR MERCER RUBBER CO. SERIES 302.

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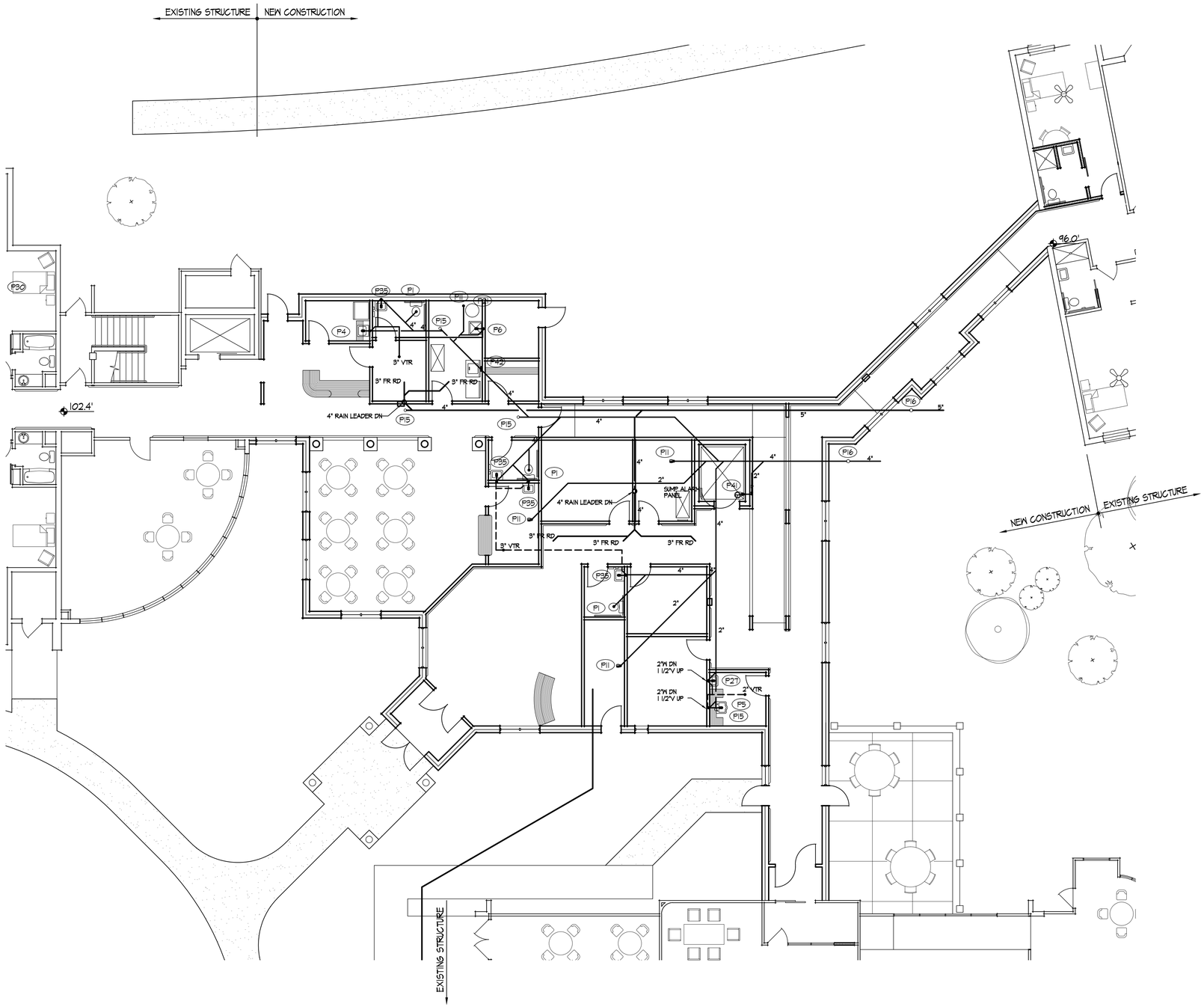

PLUMBING FLOOR PLAN LEVEL ONE - AREA D - DRAINAGE WASTE AND VENT

SCALE 1/8" = 1'-0"

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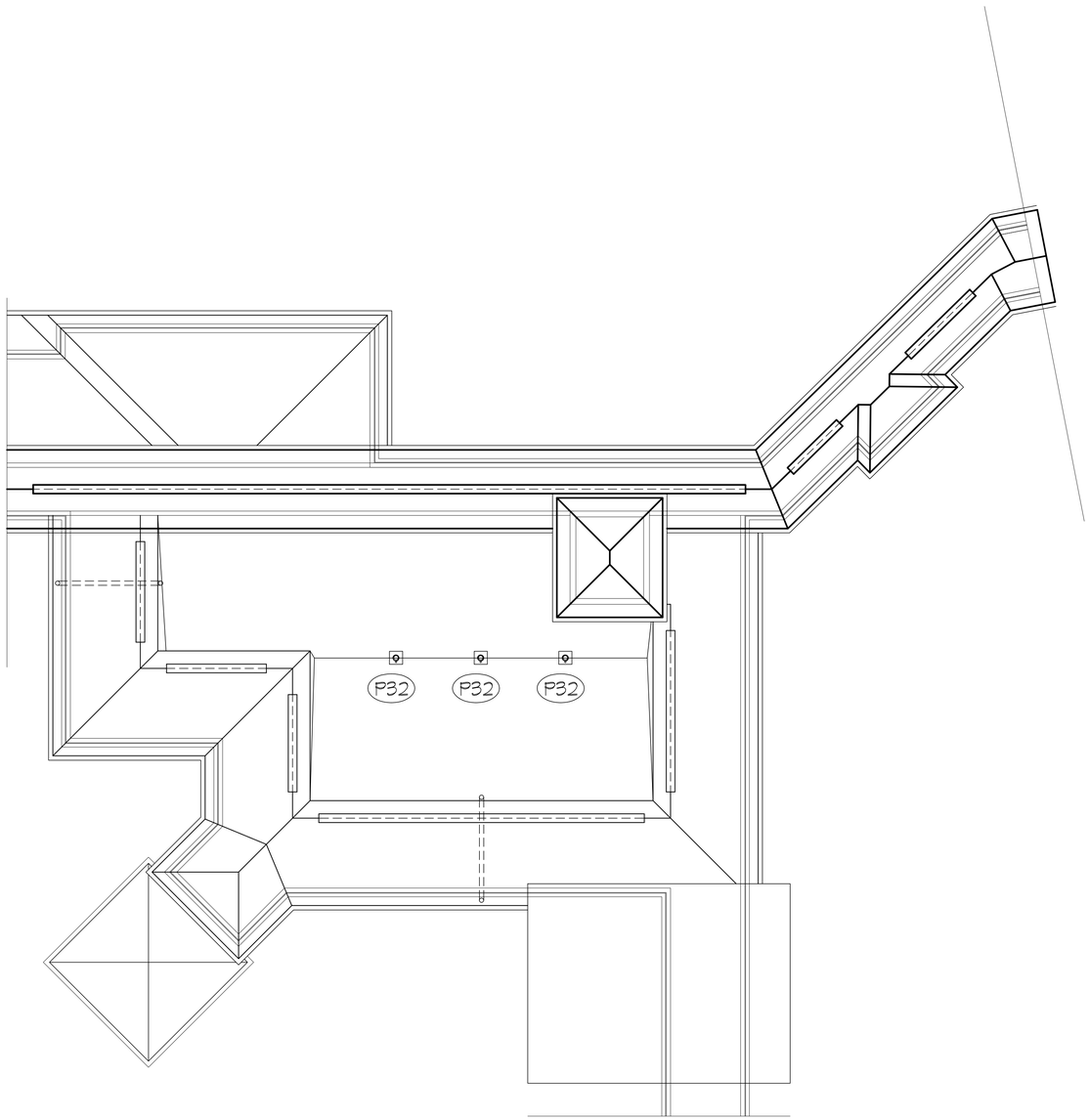

PLUMBING ROOF PLAN - AREA D - DRAINAGE WASTE AND VENT

SCALE 1/8" = 1'-0"

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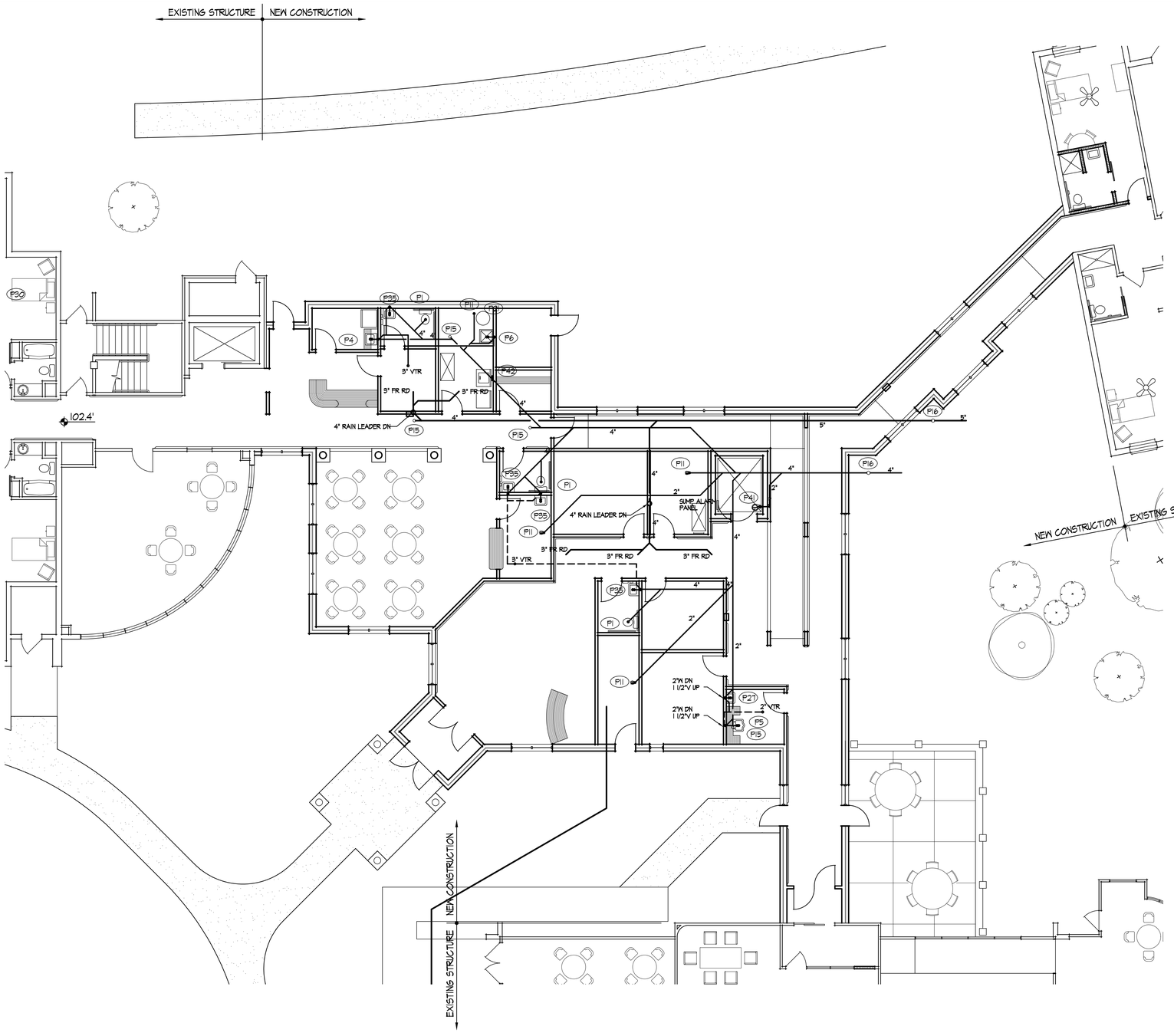
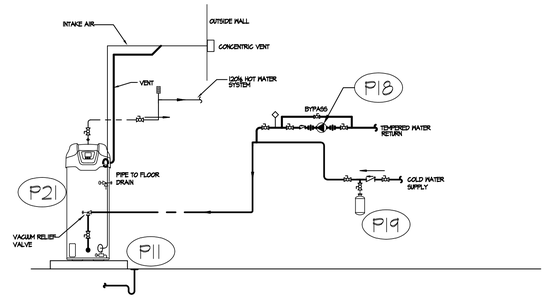


PLUMBING FLOOR PLAN LEVEL ONE - AREA D - DOMESTIC WATER AND GAS

SCALE 1/8" = 1'-0"



WATER HEATER SCHEMATIC

SCALE: = NONE

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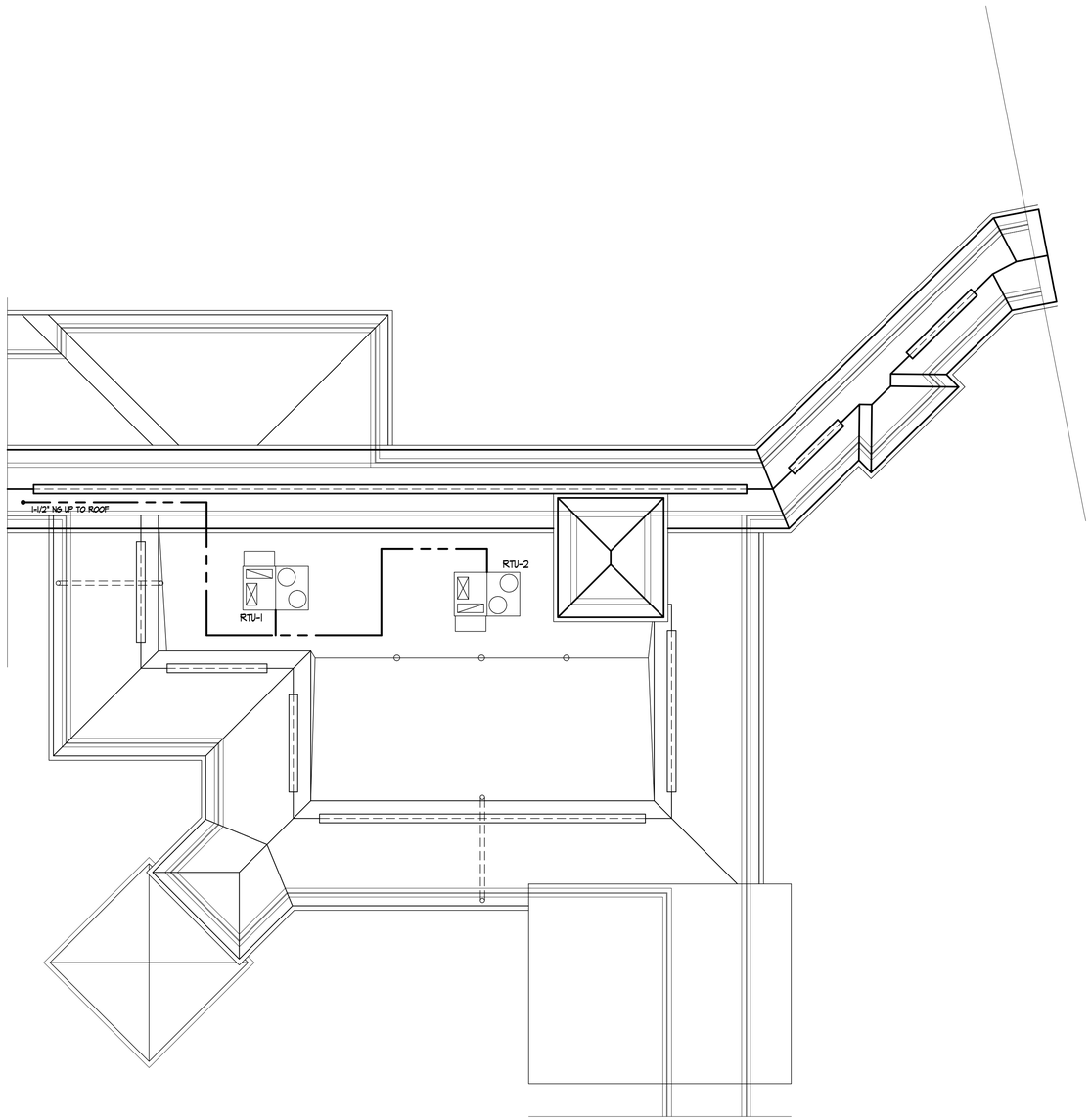

PLUMBING ROOF PLAN - AREA D - GAS

SCALE 1/8" = 1'-0"

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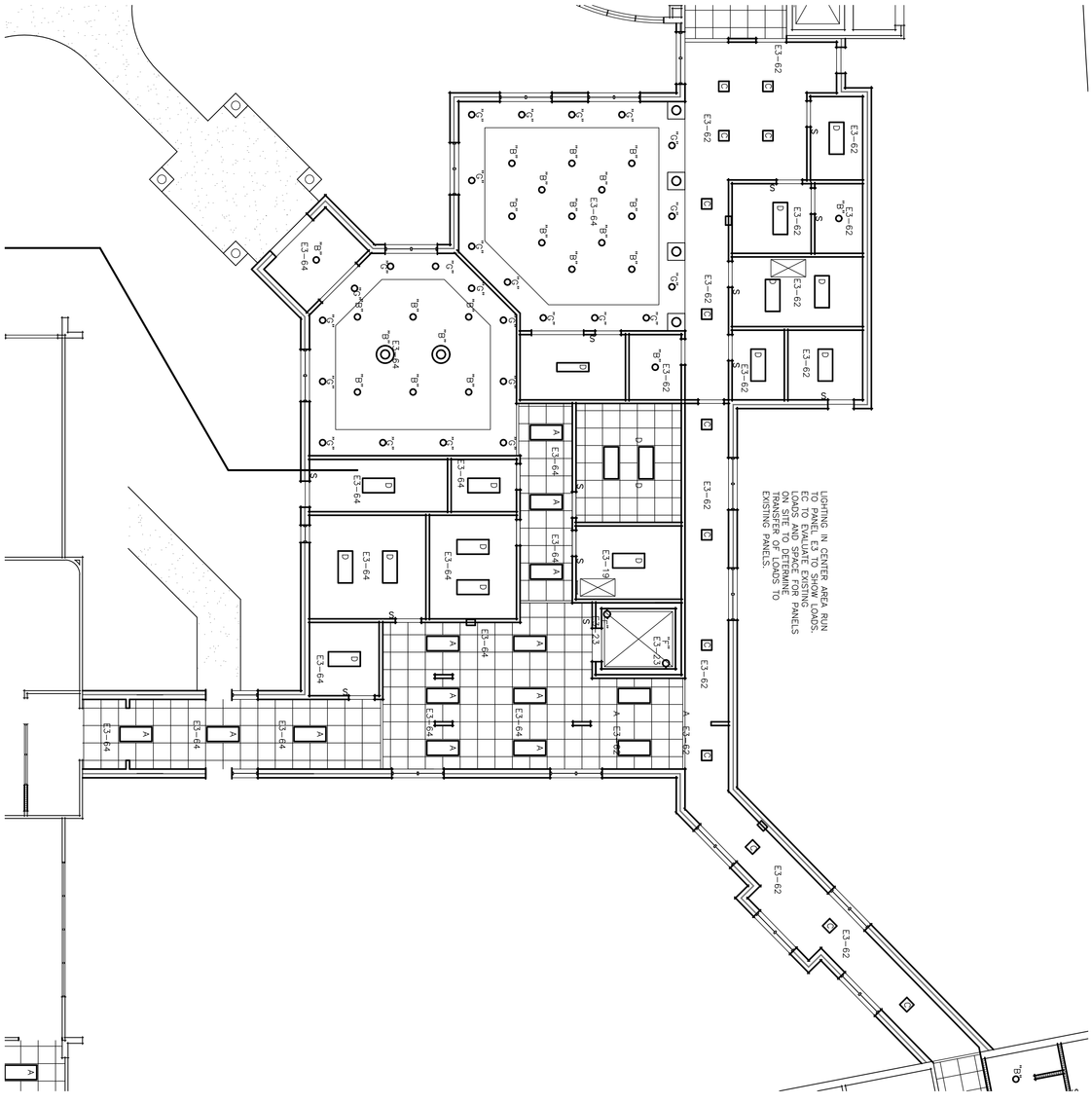
REFLECTED CEILING PLAN LEVEL ONE - AREA D

SCALE 1/8" = 1'-0"



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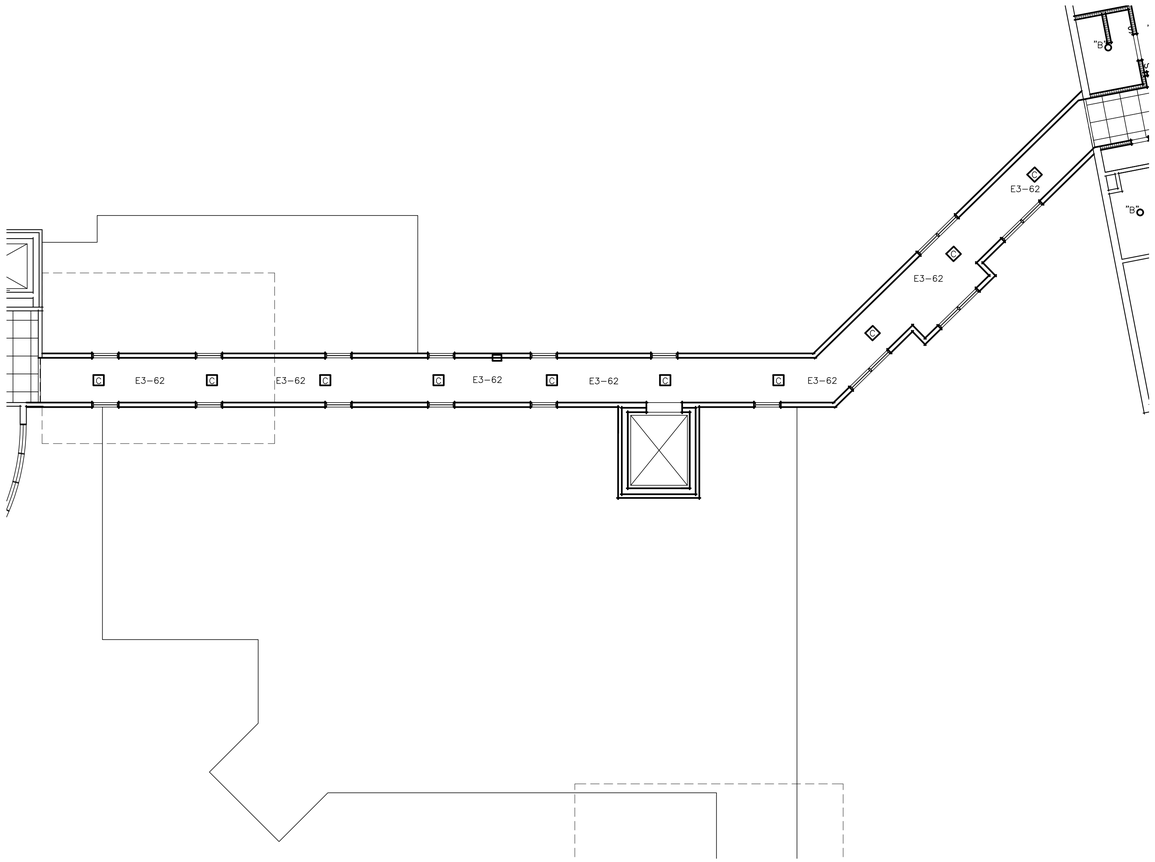

REFLECTED CEILING PLAN LEVEL TWO - AREA D

SCALE 1/8" = 1'-0"

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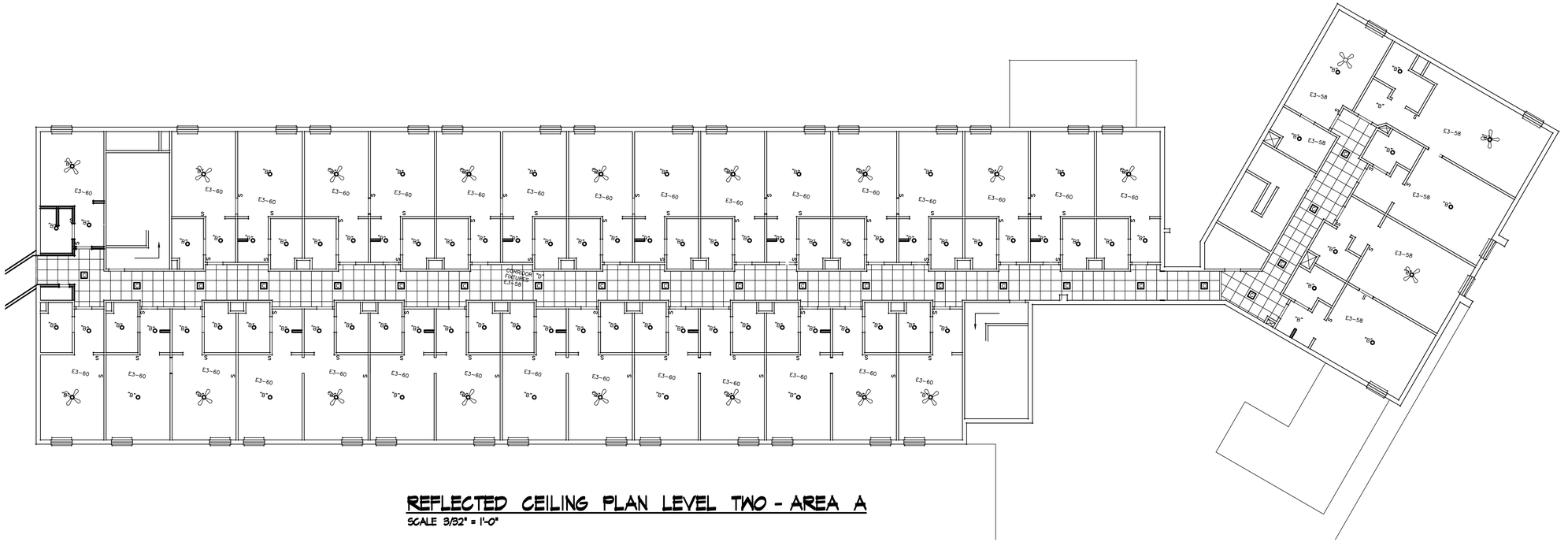
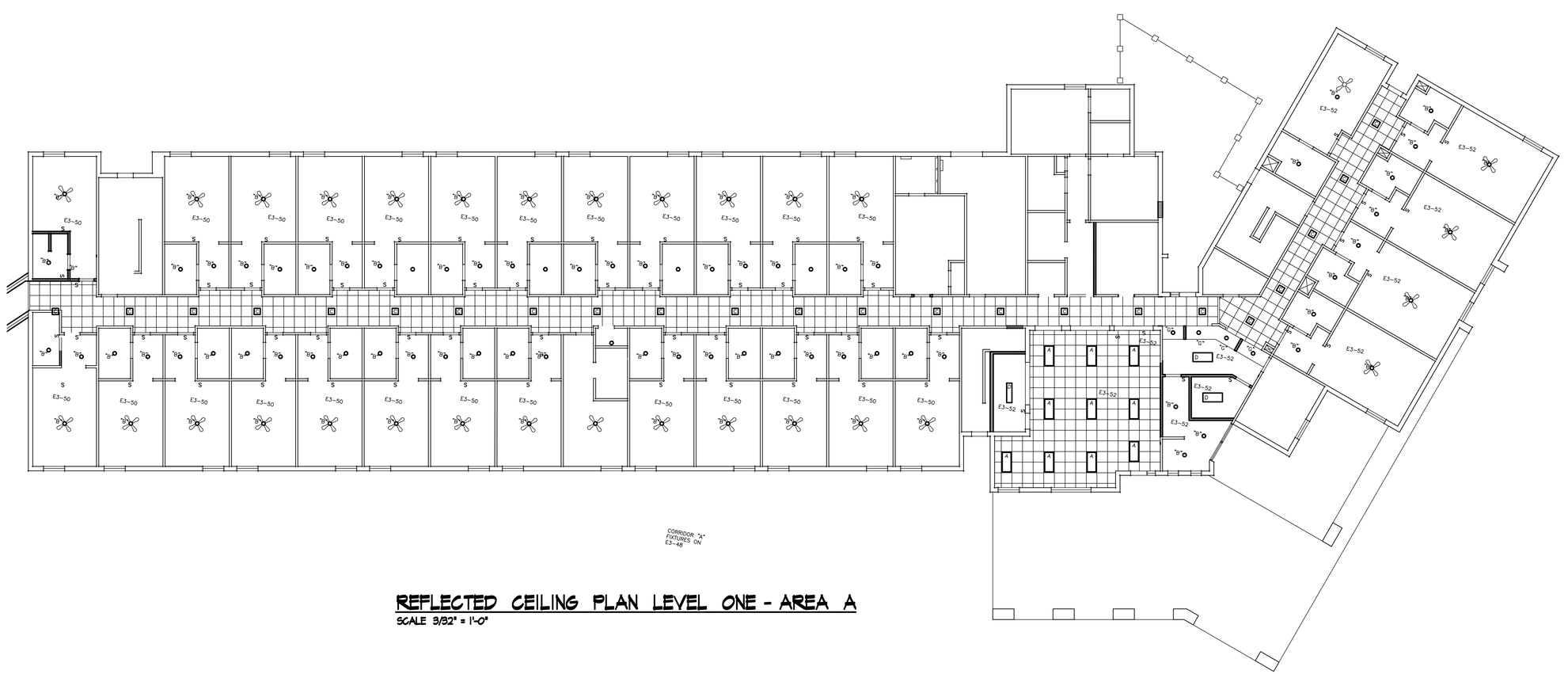


REFLECTED CEILING PLAN LEVEL TWO - AREA A

SCALE 3/32" = 1'-0"



REFLECTED CEILING PLAN LEVEL ONE - AREA A

SCALE 3/32" = 1'-0"

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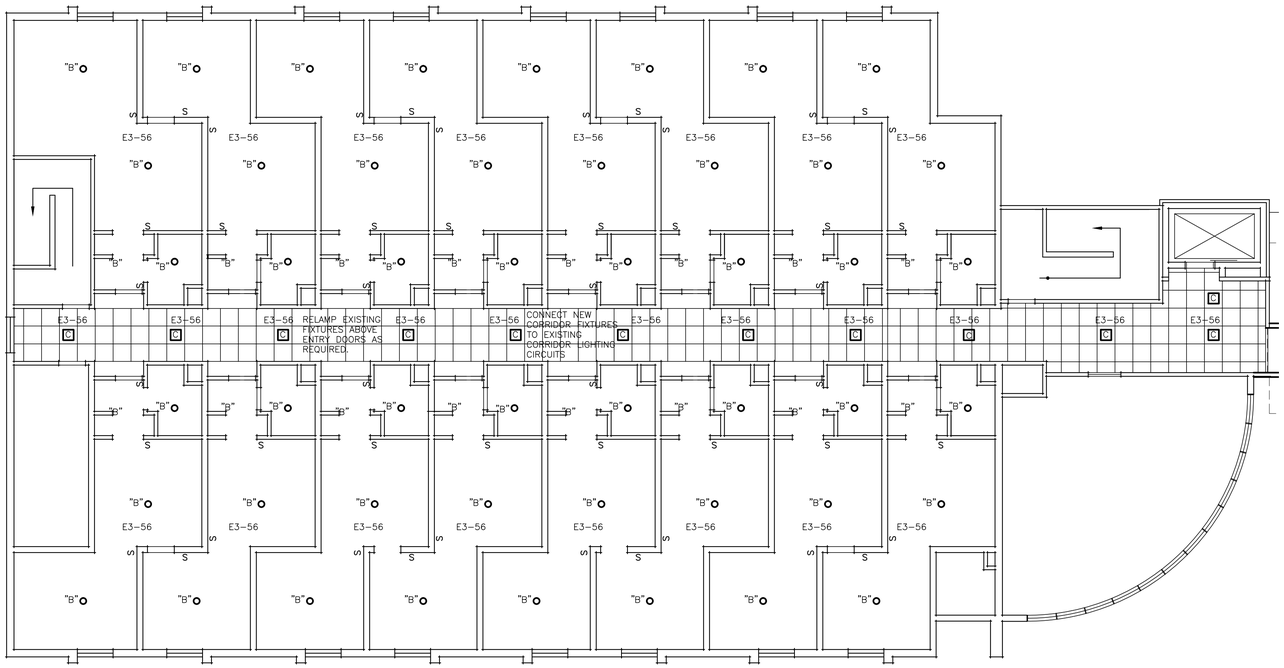
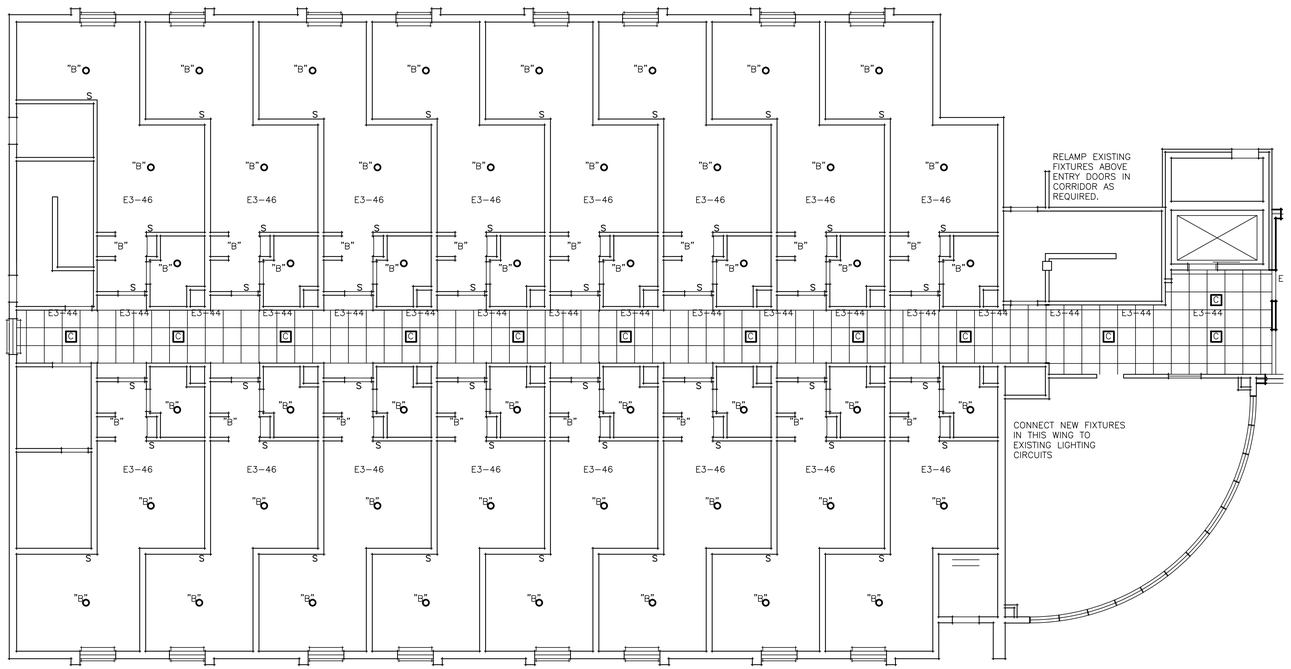


REFLECTED CEILING PLAN LEVEL TWO - AREA B

SCALE 1/8" = 1'-0"



REFLECTED CEILING PLAN LEVEL ONE - AREA B

SCALE 1/8" = 1'-0"

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REVISION DATE
1 - 11 FEB 2019
2 - 15 FEB 2019
3 - 11 MAR 2019

MERU SENIOR HEALTH AND WELLNESS CAMPUS

ALLEGHANY COUNTY, VIRGINIA

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JWB
COMMISSION NUMBER
2751
DATE
15 OCT 2018

E1.4

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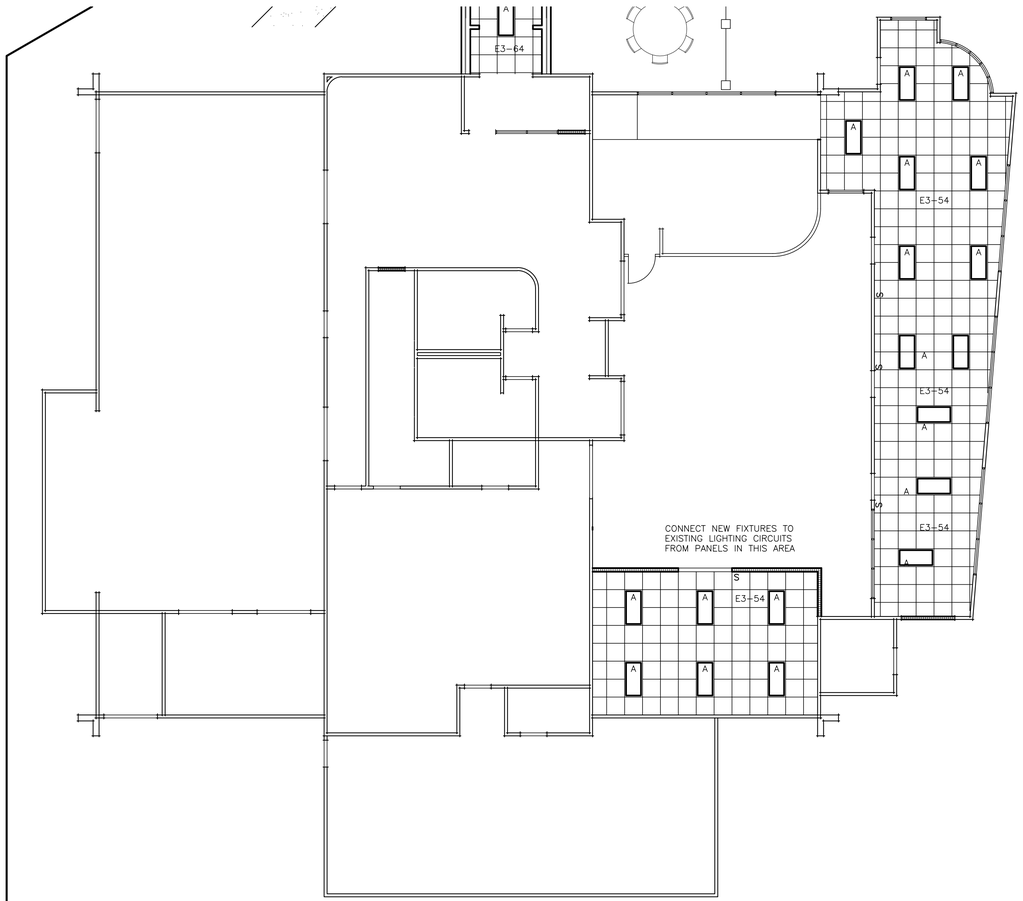

REFLECTED CEILING PLAN LEVEL ONE - AREA C

SCALE 1/8" = 1'-0"

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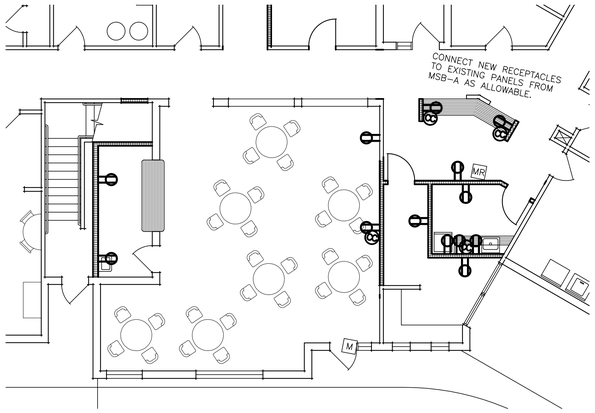
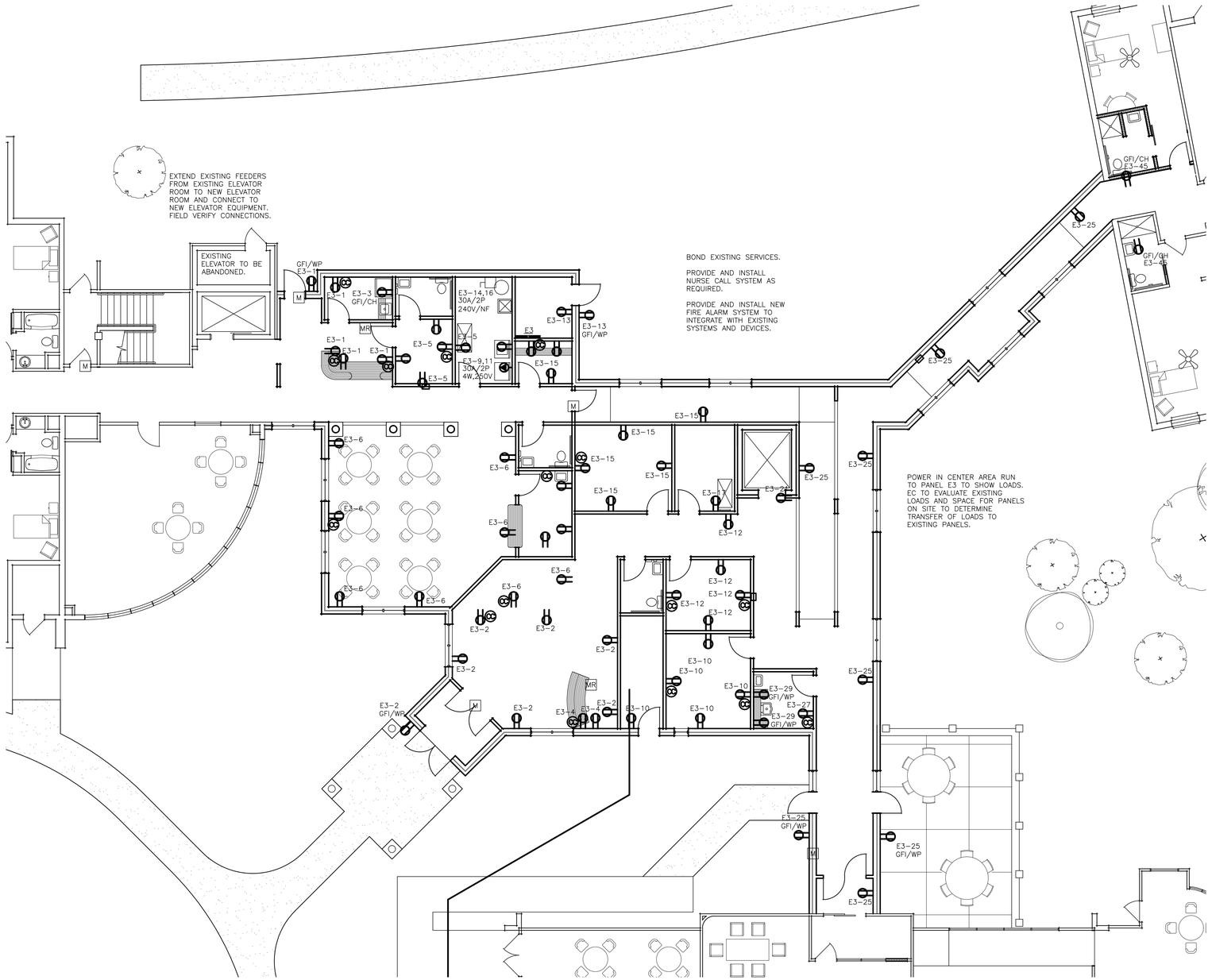


AREA A - NURSE'S STATION

SCALE 1/8" = 1'-0"



FLOOR PLAN LEVEL ONE - AREA D

SCALE 1/8" = 1'-0"

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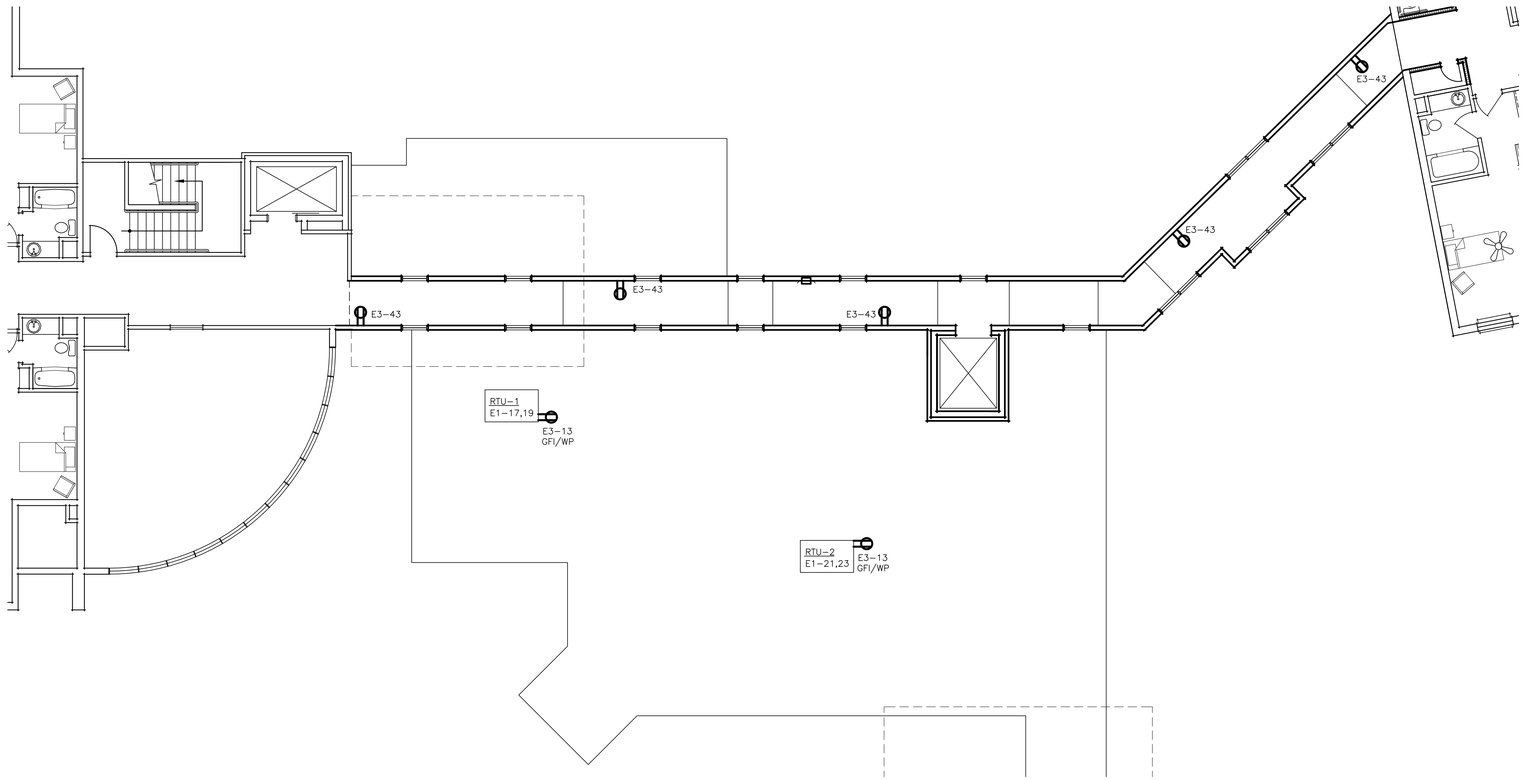

FLOOR PLAN LEVEL TWO - AREA D

SCALE 1/8" = 1'-0"

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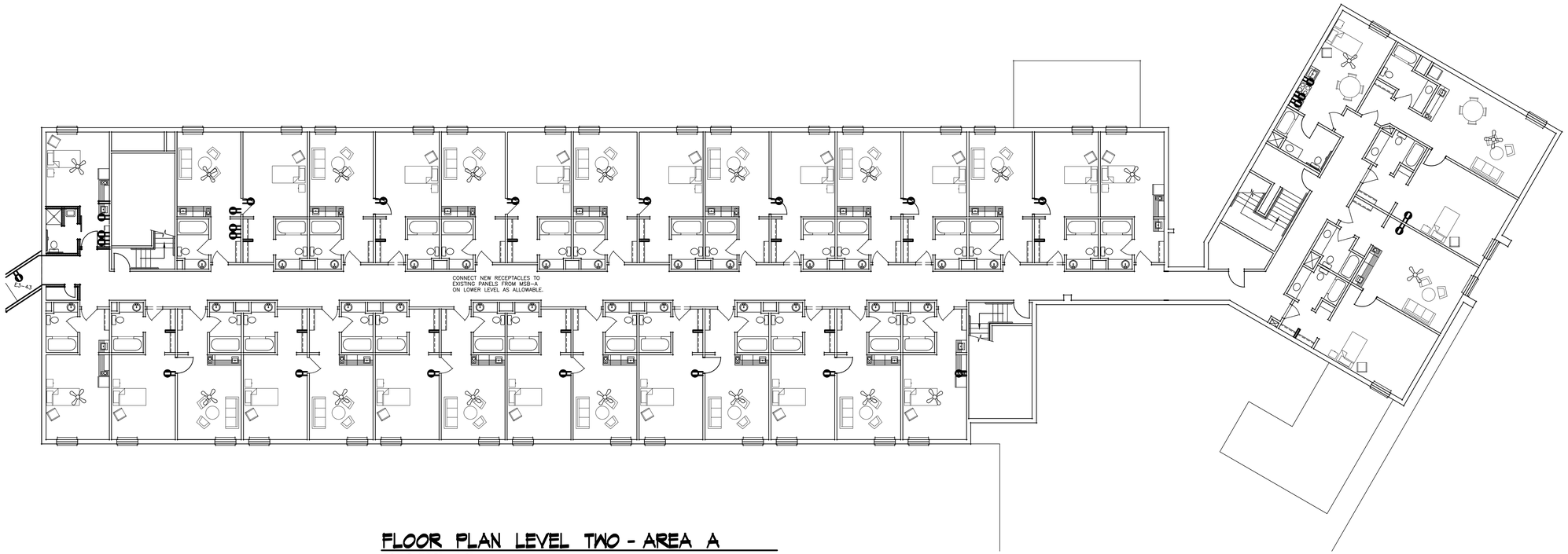
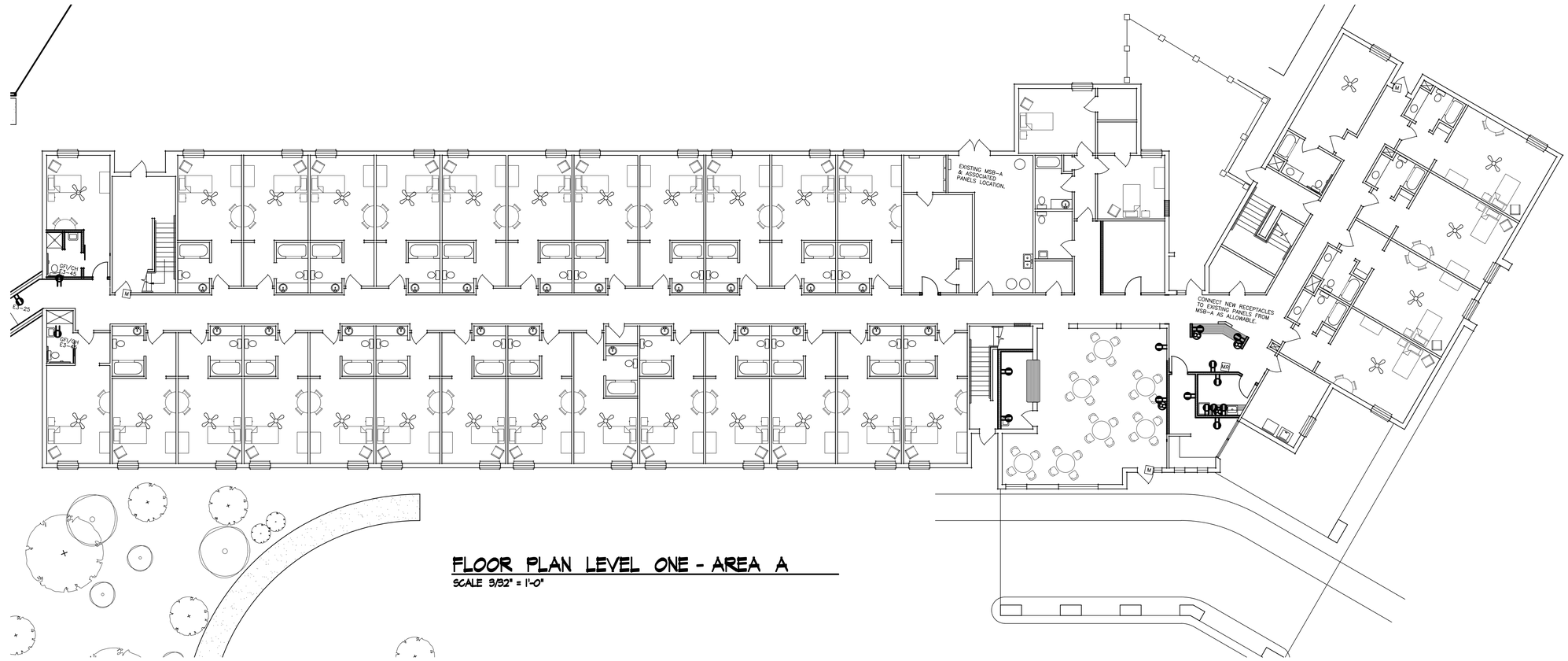


FLOOR PLAN LEVEL TWO - AREA A

SCALE 3/32" = 1'-0"



FLOOR PLAN LEVEL ONE - AREA A

SCALE 3/32" = 1'-0"

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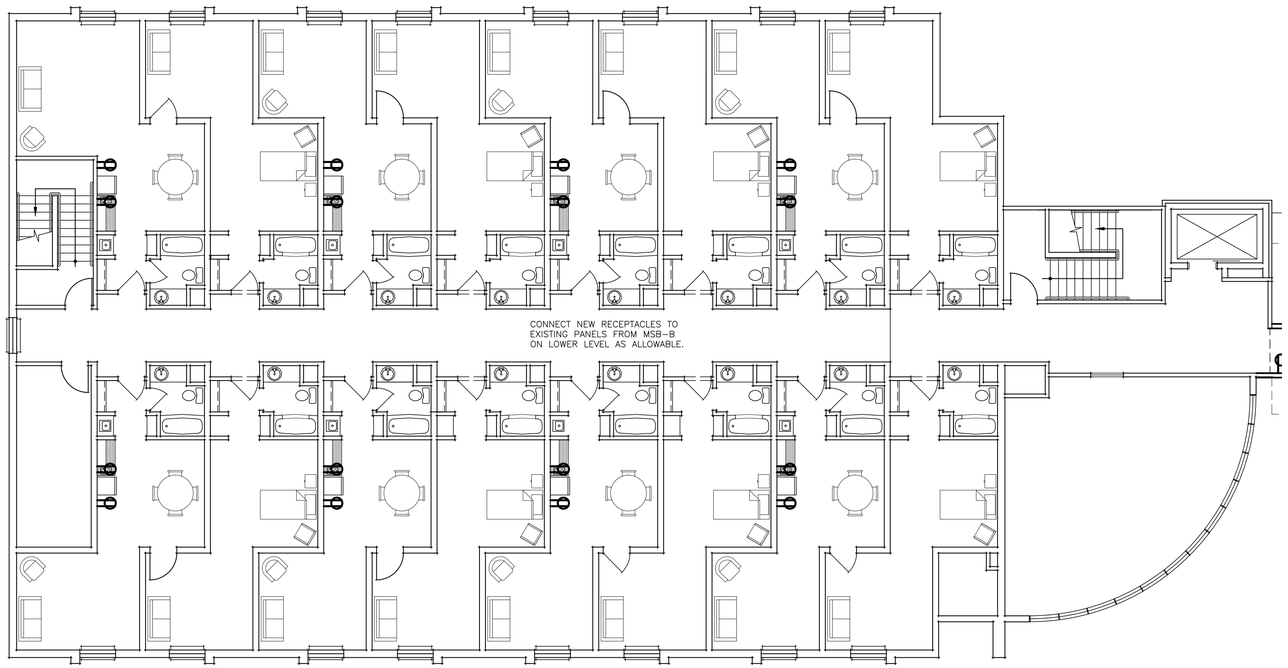
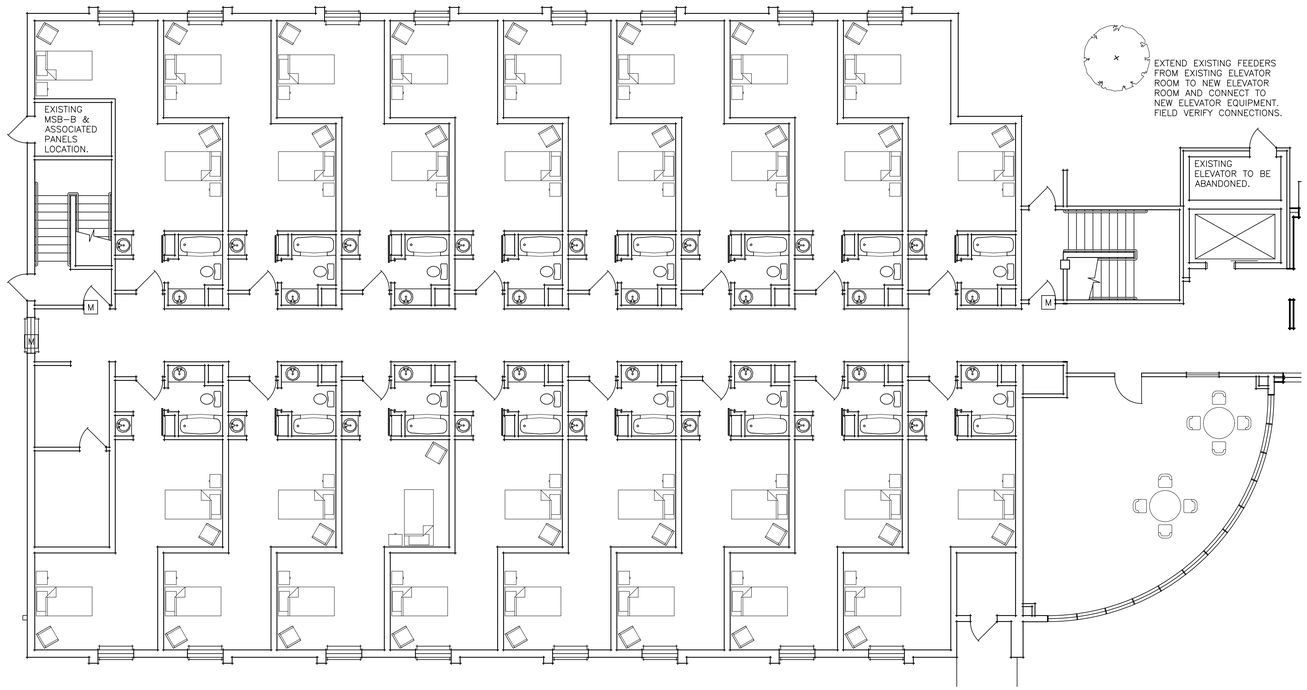


FLOOR PLAN LEVEL TWO - AREA B

SCALE 1/8" = 1'-0"



FLOOR PLAN LEVEL ONE - AREA B

SCALE 1/8" = 1'-0"

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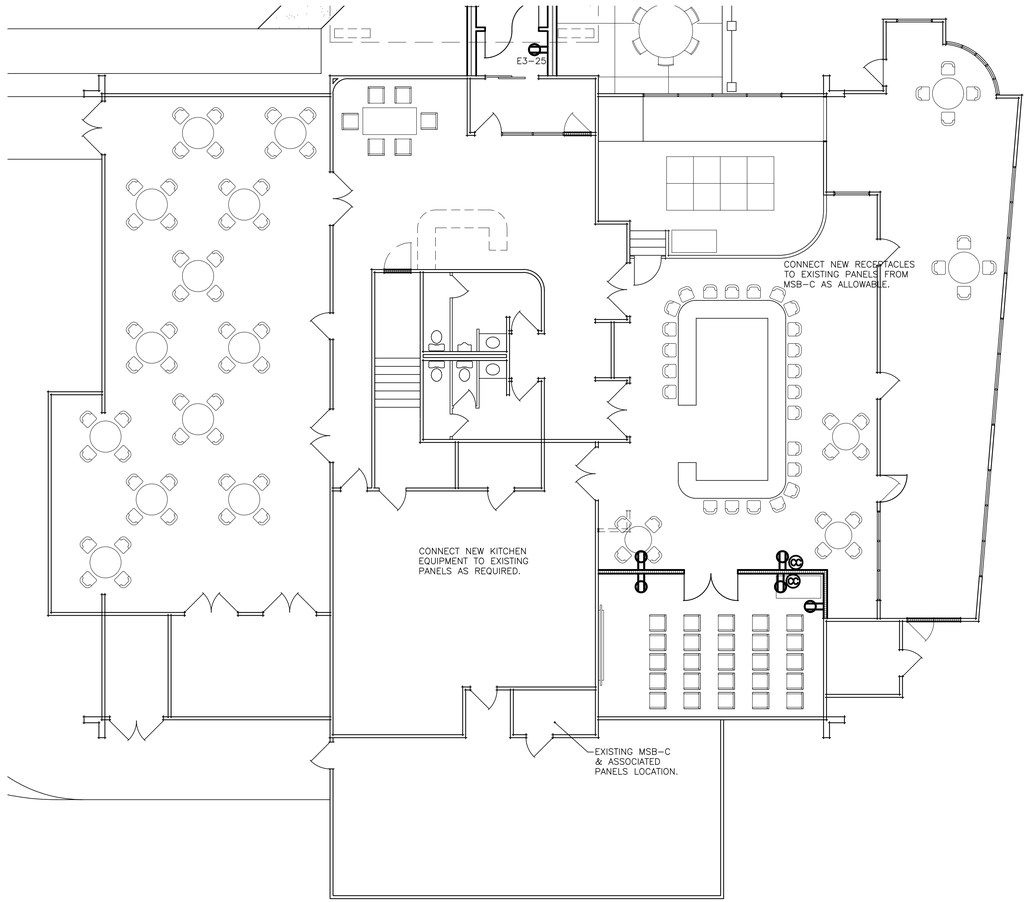

FLOOR PLAN LEVEL ONE - AREA C

SCALE 1/8" = 1'-0"

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ELECTRICAL LEGEND

SYMBOL	LIGHTING
A	FLUORESCENT LIGHTING FIXTURE, LETTER DENOTES TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION. DIAGONAL LINE INDICATES EMERGENCY.
"B"	LIGHTING FIXTURE, LETTER DENOTES TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION. DIAGONAL LINE INDICATES EMERGENCY.
	EXIT LIGHT FIXTURE, SHADING INDICATES NUMBER AND LOCATION OF FACES. MAY BE WALL MOUNTED.
	BATTERY POWERED EMERGENCY LIGHT. SEE FIXTURE SCHEDULE.
S	SINGLE POLE SWITCH
S_P	SINGLE POLE SWITCH WITH PULL CHAIN. COORDINATE WITH ARCHITECTURAL ELEVATION DRAWINGS.
S_W	SENSORSWITCH INFRARED WALL SWITCH SENSOR (WSD)
S_{W2}	SENSORSWITCH INFRARED WALL SWITCH SENSOR, 2-POLE (WSD 2P)
S_{WD}	SENSORSWITCH DUAL TECHNOLOGY WALL SWITCH SENSOR (WSD PDT)
S_{WD2}	SENSORSWITCH DUAL TECHNOLOGY WALL SWITCH SENSOR, 2-POLE (WSD PDT 2P)
S_{WS}	SENSORSWITCH INFRARED WALL SWITCH MANUAL ON (WSD-SA)
S_{HW}	SENSORSWITCH INFRARED HALLWAY SWITCH SENSOR (HWR-13)
	SENSORSWITCH 360 DEG. CEILING MOUNT SENSOR (CM 9) PROVIDE POWER PACKS
D	SENSORSWITCH 360 DEG. CEILING MOUNT DUAL TECHNOLOGY SENSOR (CM PDT 9) PROVIDE POWER PACKS
180	SENSORSWITCH 360 DEG. CEILING MOUNT SENSOR, EXTENDED RANGE (CM 10) PROVIDE POWER PACKS
180 D	SENSORSWITCH 360 DEG. CEILING MOUNT DUAL TECHNOLOGY SENSOR, EXTENDED RANGE (CM PDT 10) PROVIDE POWER PACKS
180 2	SENSORSWITCH 360 DEG. CEILING MOUNT SENSOR, 2-POLE, EXTENDED RANGE (CM PDT 10) PROVIDE POWER PACKS

	POWER DEVICES
	FLOOR RECEPTACLE
	DUPLEX CONVENIENCE OUTLET MOUNTED AT 24"AFF U.N.O.
	WEATHERPROOF OUTLET
CC	KIOSK DROP RJ45 + AC POWER
GFI	GROUND FAULT OUTLET
	QUADRUPLEX OUTLET MOUNTED AT 24"AFF U.N.O.
	SINGLE SPECIAL OUTLET. TYPE AS NOTED.
	SAFETY SWITCH. SIZE AND FUSING AS NOTED.
	PANEL 208 OR 240 VOLT
	MANUAL MOTOR STARTER
P	POWER POLE
J	JUNCTION BOX
M	MAGLOCK (SEE GENERAL NOTES)
MR	MAGLOCK RELEASE
DH	DOOR HOLD
	MOTOR

	TELECOM DEVICE OUTLETS (FVL)
	TELEPHONE OUTLET AT 18"AFF U.N.O. CAT5e W/RJ11 – 2 IN RESIDENT ROOMS
	FLOOR TELEPHONE OUTLET CAT5e W/RJ45
	POINT OF CARE – CAT5e W/RJ45 TERMINATION AND RECEPTACLE MOUNTED 60"AFF
TV	CABLE TV OUTLET RG-6 18" BFC. REC FOR TV SAME HEIGHT
C	COMPUTER OUTLET MOUNTED AT 18"AFF U.N.O. CAT5e W/RJ45
CC	DUPLEX COMPUTER OUTLET AT 18"AFF U.N.O. (2)CAT5e W/RJ45
	WIFI ACCESS POINT LOCATION CAT5e W/RJ45 (FVL)
SP	PA SPEAKER

	NURSE CALL DEVICES
E	SINGLE NURSE CALL PULL STATION
B	DOUBLE NURSE CALL PLUNGER STATION
N	NURSE CALL LIGHT / ALERT

	FIRE ALARM DEVICES
	A/V 75 UNLESS NOTED OTHERWISE
V	VISUAL ONLY (75 UNLESS NOTED OTHERWISE)
F	PULL STATIONS
S	SMOKE DETECTOR
CO	CARBON MONOXIDE DETECTOR
H	HEAT DETECTOR
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL (REMOTE)
S	120 VAC SINGLE STATION SMOKE ALARM
CO	SINGLE STATION CARBON MONOXIDE DETECTOR
SD	DUCT MTD. SMOKE DETECTOR
FS	SPRINKLER SYS. FLOW SWITCH
TS	TAMPER SYS. FLOW SWITCH

	ABBREVIATIONS
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BG	BELOW GRADE
BLDG	BUILDING
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CH	COUNTER HEIGHT
CLG	CEILING
ECB	ENCLOSED CIRCUIT BREAKER
ELEV	ELEVATOR
EMER	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FV(L)	FIELD VERIFY (LOCATION/LOAD)
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
KAIC	THOUSAND AMP SYMMETRICAL INTERRUPTING CAPACITY RMS
MCB	MAIN CIRCUIT BREAKER
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
NEC	NATIONAL ELECTRIC CODE
NL	NIGHT LIGHT
REC	RECEPTACLE
REQ'D	REQUIRED
SW	SWITCH
TC	TIMECLOCK
TEL	TELEPHONE
TVSS	TRANSIENT VOLTAGE SURGE SUPRESSOR
U.N.O.	UNLESS NOTED OTHERWISE
XFMR	TRANSFORMER

GENERAL NOTES

The applicable provisions of the General Conditions and the Special or Supplemental Conditions shall govern the work of this section the same as though written herein in full.

Scope of Work

A. The Contractor agrees that his submitted price for the work hereunder includes sufficient money allowance to make his work complete and operable. He agrees that inadvertent discrepancies or omissions, failure to show details, or repeat notes or figures on each drawing will not be the cause for additional charges or claims.
B. The electrical drawings shall be considered part of these specifications, and any work or material shown on the drawings and not mentioned in the specifications, or vice versa, shall be executed as if specifically mentioned in both.
C. Minor changes to accommodate the installation of the work of the Contract, shall be made by the Contractor when ordered by the Architect without additional cost to the Contract.
D. The work under this section of the specifications shall include the furnishing of all equipment, apparatus, tools, labor, and material to complete the electrical installation for all that is indicated or specified herein.
E. Regulations, Codes, Permits. All work and materials included in this section shall be in accordance with the latest rules and regulations of local and state authorities, State Fire Marshal, OSHA and any other legally constituted Public Authority having jurisdiction. Nothing in the plan or specifications shall be construed as permitting work that is not in conformance with applicable code. The contractor shall apply and pay for all required permits, arrange and pay for inspections, and deliver certificates of all such inspection to the Architect.
F. This specification and the drawings cover the complete electrical system and all related work including but not limited to, the following:
   1. The furnishing and installation of the electrical service to the building (excluding conductors), panelboards, lighting fixtures and lamps, conduits, outlets, wiring and wiring devices as required for a complete and operational installation.
   2. The supplying, installation, and complete connection of all disconnect switches and all magnetic starters that are shown on the drawings, and the complete connection of all motor starters where shown on the drawings.
   3. The complete connection of all motors.
   4. Certain conduits and wiring for mechanical system controls, where such are shown on the electrical drawings. All other mechanical controls wiring shall be furnished and installed under the Mechanical Sections of these specifications.
   5. Complete provisions for the Telephone, Cable and/or Data utilities, including the service conduits for each.
   6. The supplying and installation of nameplates for al panels, disconnect switches, motor starters, special outlets and terminal cabinets.
G. Substitution of Materials. Not withstanding any reference in the specifications to any article, device, product, material, fixture, form, or type of construction by name, make, or catalog number, such reference shall be interpreted as establishing a standard of quality and shall not be construed as limiting competition; and the Contractor in such cases, may at his option use any article, device, product, material, fixture, form, or type of construction which in the judgment of the Architect expressed in writing, is equal to that specified.
H. Examination of Jobsite. Before proceeding with the work, the Contractor shall inspect the site. By the act of submitting a bid price for the work, the Contractor shall be deemed to have verified the existing conditions and that he is familiar with and accepts all conditions at the jobsite. Scaled and computed dimensions are approximate and are given for estimating purposes only. Before proceeding with the work, the Contractor shall carefully check and verify all dimensions and sizes of equipment and shall assume all responsibility for the fitting of his materials and equipment to other parts of the equipment and to the structure. He shall verify that the equipment submitted will fit the allotted spaces. If spaces are not adequate for equipment or materials, the Contractor shall immediately notify the Architect for any changes to be undertaken and be fully monetarily responsible for any and all alterations required to facilitate installation. Where work requires connection to NIC equipment and other equipment that is furnished and set by others, the Contractor shall obtain connection to NIC equipment and other equipment that is furnished and set by others, the Contractor shall obtain exact rough-in dimensions from those who are furnishing the equipment and shall install connections in a neat and workmanlike manner.
I. Locations. The locations of conduits, outlets, apparatus, and equipment indicated on the drawings are approximate only and shall be changed, as approved by the architect, to meet the architectural and structural conditions as required. Locations indicated on the drawings, however, shall be adhered to as close as possible. All conduit and equipment shall be installed such as to avoid obstructions, preserving headroom and keeping openings and passageways clear. Lighting fixtures, switches, convenience outlets, etc., shall be located in finished rooms, as indicated on the architectural drawings. Where these drawings do not indicate exact locations, such locations shall be obtained from the architect. Where equipment is installed without instruction and must be relocated or moved, it shall be done without additional cost to the contract.
J. Drawings and specifications are intended to complement each other. All miscellaneous items of work and materials necessary for the completion of the installation of the systems shall be provided for whether or not mentioned in the specifications or shown on the drawings. Where a conflict exists between the requirements of the specification and the drawings, the architect shall determine the intended requirements. The architect shall interpret the drawings and clarify the specifications, and his decision as to the true intent and meaning thereof and the quality, quantity, and sufficiency of the materials and workmanship furnished there under shall be accepted as final and conclusive.
K. Excavation. All excavating, trench work and backfilling that is required for the installation of the electrical system shall be performed under this section and in accordance with the applicable portions of the section of these specifications and plans on the subject of excavation, trenching, and backfill.
L. Concrete Work. All concrete required for the installation of the electrical system shall be performed under this section and in accordance with the applicable portions of the section of these specifications and drawings on the subject of concrete work.
M. Material and Approvals. All materials furnished under this specification shall be new, in accordance with the specifications of the Institute of Electrical and Electronic Engineers,, National Fire Protection Association and The National Electrical Code, and shall bear the Underwriter's Laboratories label where such service is regularly available. All equipment used for the same purpose shall be of the same make. Wherever on the drawings, or in the specifications, materials are identified by the name of one manufacturer, it is intended that manufacturer item be used. However where three or more manufactures are mentioned, then the equipment furnished must be the product of one of the manufactures listed. Within 35 days after award of the contract or in a time frame as directed by the architect, the contractor shall submit a complete list of all materials, equipment, apparatus and lighting fixtures that he proposes to use. The list shall include size, type, name of manufacturer, catalog number and such other information required to identify the item. No material, equipment, apparatus or lighting fixtures shall be purchased or installed by the contractor without such materials, etc. Any and all materials installed in violation of this provision shall, when so directed by the architect, be removed and replaced with materials acceptable to the architect at the contractor's expense.
N. Protection of Finish. The contractor shall provide adequate means for and shall fully protect all finished parts of materials and equipment against damage from any cause during the progress of the work and until acceptance by the architect. Material and equipment, both in storage and during construction shall be covered so that finished surfaces will not be damaged, progress of the work and until acceptance by the architect. Material and equipment, both in storage and during construction shall be covered so that finished surfaces will not be damaged, marred or splattered with plaster or paint, and moving parts shall be kept clean and dry. Damaged materials or equipment including faceplates or panels and switchboard sections shall be replaced or refinished by the manufacturer at no additional cost to the contract.
O. Cleaning Equipment and Premises. All parts of the materials and equipment shall be thoroughly cleaned. Exposed parts shall be cleaned, all grease and oil spots shall be removed. Exposed unfinished surfaces that are to be painted at the jobsite shall be cleaned and all rust, dust, oil, grease and other marks shall be removed prior to painting. During the progress of the work the contractor shall clean up daily after any work is performed and shall leave the premises and all portions of the building in which the contractor is working free from debris.
P. Verbal Agreements. No verbal agreement shall affect or modify any of the terms, clauses, instructions, notes or details that are contained in the documents comprising the contract. All such agreements shall be in writing before becoming a part of the contract.
Q. Cooperation with Other Trades. The contractor shall cooperate with other trades on the project for the proper execution of the work. Refer to the architectural, structural and mechanical sections and drawings, and/or any other pertinent information media approved by the architect for construction details, hookups and connections.
R. Guarantee. In addition to the guarantees required in the general provisions, all materials and equipment provided and installed under this section shall be guaranteed by the contractor for a period of one (1) year from the date of acceptance of the work by the architect. Should any trouble develop during the period, due to defective materials, faulty equipment or poor workmanship, the contractor shall furnish all necessary labor, materials or equipment to correct the trouble in a timely manner, without additional cost to the contract.
S. Tests. All systems shall test free from short circuits, open circuits, wrong connections and grounds, free from mechanical and electrical defects and shall show an insulation resistance between phase conductors and ground not less than that required by the National Electrical Code. All circuits shall be tested for proper neutral connections. Furnish all necessary instruments and equipment required for making tests, and immediately correct any defective work. Upon completion of this work and adjustment of all equipment, all systems shall be tested in the presence of the architect to demonstrate that all equipment furnished and installed or connected under the provisions of this contract function electrically in the manner specified.
T. Record and As-built Drawings. The contractor shall provide and maintain in good order in his field office a complete set of plans that form a part of the contract. In event any work is not installed as indicated from the drawings, such work shall be carefully and correctly drawn on these as-built prints. As-built drawings shall be provided in accordance with the general provisions of the contract.
U. Submittals. The following information shall be furnished as submittal data to the architect for approval before installation.
   1. Catalog sheets
      a. Lighting fixture, (each type)
      b. Disconnect switches, (each type)
      c. Motor control equipment, (each type)
   2. Shop Drawings
      a. Main switchboard
      b. Panelboards, (each type)
   3. Material Listing
      a. All material specified in this section.
      b. All material specified in the contract drawings.

Maglocking System Specifications

1. Shall comply with all applicable codes and standards
2. Shall comply with any and all codes including those required for Special Locking Arrangements of the State.
3. Shall be installed by a licensed alarm contractor.
4. There shall be a master maglock kill switch located at each nurse station, covered with a STI-6600 Safety Technologies, inc stopper cover with horn. This kill switch will de-energize all maglocks simultaneously if turned to the off position.
5. There shall be a local maglock kill switch located within 3' of each maglock controlled door, covered with a STI-6600 Safety Technologies, Inc stopper cover with horn. This switch shall be a double pole, single throw switch. This switch will serve the functions of:
   a. Break power going to the maglock(s)
   b. Provide notification alarm at the switch location and to the nurse call system and pagers.
   c. When the kill switch is turned on, the maglock system will return to normal.
6. The maglock system shall de-energize upon activation of the fire alarm system.
7. Maglock system shall be capable of a 15 second delayed egress operation.

Maglocks shall be by Securitron (VM1200).
Keypads shall be by IEI (2000E) and located on both sides of doors.
Power Supplies shall be by Securitron (BPS24 series)
Stopper Covers shall be by Safety Technologies, Inc (STI-6600)

Nurse Call System – Tektone (See separate specification)

1. Shall be a hard-wired system with remote pagers for staff.
2. Shall be installed complete with all necessary elements for a complete operational system.
3. Shall comply with all applicable codes and standards and to the satisfaction of the AHJ.

Intercom System (Full specification by others)

1. Shall have speakers in all the common areas and be accessible via phones or other announcing means at nurses stations and other central location.
2. Shall be installed complete with all necessary elements for a complete operational system.
3. Shall comply with all applicable codes and standards and to the satisfaction of the AHJ.

GENERAL ELECTRICAL NOTES

1. PROVIDE AND INSTALL DISCONNECTS AS REQUIRED FOR ALL HVAC AND PLUMBING EQUIPMENT IF NOT SPECIFIED ON MECHANICAL PLANS.
2. THE CIRCUIT ROUTINGS SHOWN ARE FOR CIRCUITS ONLY. THE MOUNTING AND SWITCH LOCATIONS SHALL BE AS INDICATED BY ROOM ELEVATION.
3. CONTRACTOR SHALL INSTALL A GREEN EQUIPMENT GROUNDING WIRE IN ALL POWER WIRING CIRCUITS AND SHALL BOND THE GROUNDING WIRE TO ALL DEVICES AND EQUIPMENT. BOND ACCORDING TO NEC.
4. FOR CIRCUITS SPECIFIED TO USE #12 AWG CU, INCREASE WIRE SIZE TO #10 AWG CU FOR ONE-WAY CIRCUIT RUNS GREATER THAN 80'. INCREASE WIRE SIZE TO #8 AWG CU FOR ONE-WAY CIRCUIT RUNS GREATER THAN 140'.
5. OUTLET BOXES OR JUNCTION BOXES THAT ARE SHOWN MOUNTED BACK-TO-BACK MUST MAINTAIN FIRE RATING BY BOXING WITH APPROVED MATERIAL OR BY STAGGERING 24" ON CENTER.
6. MAINTAIN ALL CEILING AND FIRE RATINGS AS SHOWN ON THE ARCHITECTURAL PLANS PER U.L. ASSEMBLY.
7. PROVIDE FOR AND INSTALL TELEPHONE SERVICE, DATA AND TELEVISION CABLE WIRING AS REQUIRED WITH CORRECT AND COMPLETE TERMINATIONS IN ALL AREAS SHOWN. CONNECT WIRING TO TELEPHONE, DATA, AND CABLE SYSTEMS BACKBOARDS RESPECTIVELY AND VERIFY CORRECT OPERATION AT ALL LOCATIONS. SEE TELEPHONE AND CABLE GENERAL NOTES BELOW.
8. VERIFY ALL EQUIPMENT SIZES AND EQUIPMENT LOCATIONS BEFORE ORDERING AND INSTALLING EQUIPMENT. IMMEDIATELY INFORM ARCHITECT OF ANY DESCREPANCIES.
9. VERIFY LOCATION OF HVAC UNITS AND WIRE ACCORDING TO NEC.
10. VERIFY ALL SPECIAL RECEPTACLES WITH EQUIPMENT MANUFACTURER BEFORE INSTALLATION.
11. VERIFY ALL KITCHEN EQUIPMENT LOADS, CONNECTIONS, AND DEVICE LOCATIONS & DIMENSIONS WITH KITCHEN EQUIPMENT DRAWINGS BEFORE ORDERING GEAR. PROVIDE AND INSTALL ALL DEVICES REQUIRED FOR KITCHEN EQUIPMENT PER KITCHEN EQUIPMENT DRAWINGS.
12. ALL RECEPTACLES IN KITCHEN SHALL BE GFI/WP.
13. KITCHEN EQUIPMENT UNDER HOOD SHALL BE CONNECTED TO SHUNT TRIP DEVICES.
14. ALL EXTERIOR LIGHTING TO BE CONTROLLED AND CONNECTED TO EXTERIOR LIGHTING CONTROL CIRCUITRY. ALL NON-EMERGENCY EXTERIOR LIGHTING TO BE CONTROLLED PHOTOCELL ON, ASTRONOMICAL TIMER OFF. ALL EMERGENCY EXTERIOR LIGHTING TO BE CONTROLLED DUSK-TO-DAWN PHOTOCELL ONLY.
15. ALL SMOKE DETECTORS, MAGLOCKS, AND EXIT DOORS TO TIE INTO NURSE CALL SYSTEM.
16. PROVIDE AND INSTALL LOW VOLTAGE POWER PACKS FOR LIGHTING OCCUPANCY SENSORS AS REQUIRED.
17. PROVIDE AND INSTALL (2) FIXTURES FOR EXTERIOR MONUMENT SIGNAGE AS REQUIRED BY SIZE OF SIGN AND CONNECT TO TIME CLOCK FOR DUSK-TO-DAWN OPERATION. FIELD VERIFY SIGNAGE LOCATION.

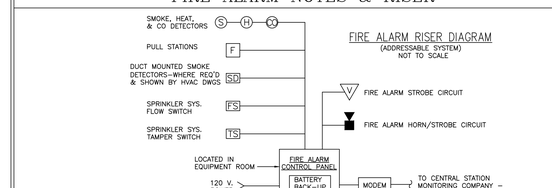
DATA, TELEPHONE & CABLE GENERAL NOTES:

1. FIELD VERIFY DATA, TELEPHONE, AND CABLE TV SYSTEMS WITH OWNER AND PROVIDE AS REQUIRED DROPS OF CAT5e FOR DATA AND TELEPHONE, AND RG-6 FOR CABLE TV (FVL). TERMINATE BOTH ENDS OF RUNS AND PROVIDE CABLING SCHEDULE AND TESTING MAP OF ALL RUNS. THERE SHALL BE NO DATA RUNS OVER 300 FEET.
2. PROVIDE ONE 2" PVC FOR INCOMING CABLE TV SERVICE TO COMPANY'S POINT OF DELIVERY. VERIFY LOCATION WITH LOCAL CABLE TV COMPANY. TERMINATE CONDUIT WITHIN BUILDING AT THE TELEVISION TERMINAL BOARD. PROVIDE INSULATED BUSHING OR FLANGED COUPLING AT TERMINATION POINT WITHIN 6'-0" OF TVTB. COORDINATE INSTALLATION WITH LOCAL CABLE TV COMPANY.
3. PROVIDE TWO 4" PVC CONDUITS FOR INCOMING TELEPHONE SERVICE TO BUILDING. CAP CONDUIT AT PROPERTY LINE AND MARK WITH A STAKE. VERIFY LOCATION WITH LOCAL TELEPHONE COMPANY. TERMINATE CONDUITS IN BUILDING AT TELEPHONE TERMINAL BOARDS. PROVIDE INSULATED BUSHING OR FLANGED COUPLING AT TERMINATION POINT WITHIN 6'-0" OF TTB. ALL TURNS IN CONDUIT FOR TELEPHONE USE SHALL BE MADE WITH SWEEP ELBOWS. COORDINATE INSTALLATION WITH LOCAL TELEPHONE COMPANY.
4. PROVIDE AND INSTALL 4'X8'X3/4" FIRE RETARDANT PLYWOOD BACKBOARD FOR USE BY TELEPHONE CONTRACTOR. PROVIDE ONE (1) #6 COPPER GROUND WIRE BONDED TO THE NEAREST COLD WATER COPPER PIPE AND TO 5/8"X12'-0" COPPERCLAD GROUND ROD FOR USE BY THE TELEPHONE COMPANY.
5. PROVIDE AND INSTALL 4'X8'X3/4" FIRE RETARDANT PLYWOOD BACKBOARD FOR USE BY CABLE TELEVISION CONTRACTOR. PROVIDE ONE (1) #6 COPPER GROUND WIRE BONDED TO THE NEAREST COLD WATER COPPER PIPE AND TO 5/8"X12'-0" COPPERCLAD GROUND ROD FOR USE BY THE CABLE TELEVISION CONTRACTOR.

PLUMBING NOTES:

1. PROVIDE AND INSTALL AS NECESSARY ANY DEVICES, DISCONNECTS, WIRING OR CONTROL CIRCUITS FOR WATER HEATERS, PUMPS OR EQUIPMENT AS SHOWN ON CURRENT PLUMBING PLANS.

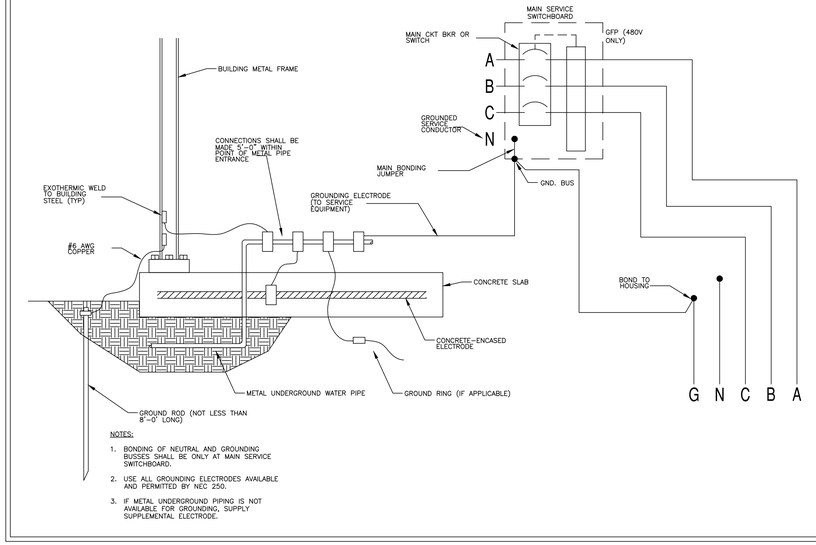
FIRE ALARM NOTES & RISER



FIRE ALARM RISER DIAGRAM
(ADDRESSABLE SYSTEM)
NOT TO SCALE

1. 24 HOUR OFF-SITE MONITORING.
2. PROVIDE ADDRESSABLE U.L. LISTED CENTRAL STATION.
3. POWER FED FROM LOCKED CIRCUIT BREAKER PER NEC.
4. BUILDING FULLY SPRINKLERED.
5. PROVIDE AND INSTALL F/A ANNUNCIATOR PANELS AT EACH NURSE STATION.
6. PROVIDE AND INSTALL CO DETECTORS AS REQUIRED PER ALL APPLICABLE CODES.
7. UPON ACTIVATION OF ANY INITIATING DEVICE, ALL NOTIFICATION DEVICES SHALL OPERATE AND MONITORING CENTER SHALL BE AUTOMATICALLY DIALED.
8. FACP BACKUP POWER TO BE SUPPLIED BY SEALED AMG RECHARGABLE BATTERIES.
9. FIRE ALARM CONTRACTOR SHALL INSTALL SYSTEM COMPLETE AND PER ALL APPLICABLE CODES. IF THERE ARE ANY DISCREPENCIES BETWEEN CODE AND THESE DRAWINGS OR SPECIFICATIONS, INSTALL PER CODE. FIRE ALARM CONTRACTOR TO PROVIDE SPECIFIC DRAWINGS OF INSTALLATION AND ALL OTHER DOCUMENTATION PER NFPA 72.
10. THIS IS A PERFORMANCE SPECIFICATION ONLY. FIRE ALARM CONTRACTOR SHALL SUPPLY AND INSTALL ALL MATERIALS AND DEVICES, AND ADDITIONAL DRAWINGS TO SATISFY THE AHJ'S REQUESTS FOR ANY ADDITIONS AT NO COST TO THE CONTRACT OR OWNER.
11. PROVIDE COMPLETE SCHEMATIC FIRE ALARM WIRING DIAGRAM AS PART OF SHOP DRAWING SUBMITTALS.
10. FIRE ALARM CONTRACTOR TO PROVIDE AND INSTALL SMOKE DUCT DETECTOR FOR ALL HVAC UNITS AS REQUIRED BY CODE OR REQUESTED BY AHJ. SEE NOTE 8.

GROUNDING DIAGRAM



NOTES:

1. BONDING OF NEUTRAL AND GROUNDING BUSSES SHALL BE ONLY AT MAIN SERVICE SWITCHBOARD.
2. USE ALL GROUNDING ELECTRODES AVAILABLE AND PERMITTED BY NEC 250.
3. IF METAL UNDERGROUND PIPING IS NOT AVAILABLE FOR GROUNDING, SUPPLY SUPPLEMENTAL ELECTRODE.

LIGHTING SCHEDULE

IN FOCUS ENGINEERING
MECHANICAL, ELECTRICAL & PLUMBING
ENGINEERING

MERU SR. HEALTH & WELLNESS - COVINGTON, VA

LIGHTING FIXTURE SCHEDULE

TYPE	MANUF.	MODEL	LAMP	DESCRIPTION
A	LITHONIA	2ALL4 CTRF 48L MVOLT EZ1 LP835 N80	LED INCLUDED	2X4 RECESSED LAYIN LED, 4824 LUMENS, DIM TO 1% (0-10%)
B	SEAGULL	75520EN-962	LED INCLUDED	13" DOMED SURFACE MOUNT 2-LED BRUSHED NICKEL
C	JUNO	JSFSQ 12IN 13LM 35K 120FRPC WH EL	LED INCLUDED	12" SQUARE LED SURFACE WITH BATTERY BACKUP
D	LITHONIA	STL4 48L EZ1 LP835 N80	LED INCLUDED	1X4 SURFACE VOLUMETRIC LED, 4850 LUMENS, DIM TO 1% (0-10%)
F	PHOENIX	VP-W-32CFL-120-GCL-G	PHILIPS 32W GX24q	ELEVATOR PIT LIGHT, 32W CF, WITH GLOBE AND GUARD
G	JUNO	K22LED WD G4 09LM 30K 90CRI 120 FRPC - 22 WH	LED INCLUDED	6" DOWNLIGHT, 900 LUMEN 30K, PROVIDE TENMAT COVER, FRESNEL, WHITE TRIM

REVISION DATE
1 - 11 FEB 2019
2 - 15 FEB 2019
3 - 11 MAR 2019

MERU SENIOR HEALTH AND WELLNESS CAMPUS
ALLEGHANY COUNTY, VIRGINIA

PROJECT ARCHITECT
RLJ JR
TECHNICIANS
JMB
COMMISSION NUMBER
2751
DATE
15 OCT 2018

E4.1

JONES & JONES ASSOCIATES / ARCHITECTS PC

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IN FOCUS ENGINEERING — **PANEL: E3**

MECHANICAL, ELECTRICAL & PLUMBING

ENGINEERING 888-689-6874

MERU SR. HEALTH & WELLNESS - COVINGTON, VA

208/120V - 3 PHASE, 4W, SN, ?? KAIC - 225A MLO

CIRCUIT	LOAD	AMPS A	AMPS B	AMPS C	BREAKER POLES	BREAKER SIZE	CIRCUIT CONDUCTORS PHASE	CIRCUIT CONDUCTORS NEUTRAL	CIRCUIT CONDUCTORS GROUND	MIN. CONDUIT SIZE
1	REC 124-25,EXT	7.5	--	--	1	20	#12	#12	#12	3/4"
3	REC REF 124	--	4.5	--	1	20	#12	#12	#12	3/4"
5	REC 121,122	--	--	7.5	1	20	#12	#12	#12	3/4"
7	REC WASHER 121	7.5	--	--	1	20	#12	#12	#12	3/4"
9	DRYER	--	19.0	--	2	30	#10	---	#10	3/4"
11	---	--	--	19.0	--	--	#10	---	---	---
13	REC 120,EXT,ROOF	6.0	--	--	1	20	#12	#12	#12	3/4"
15	REC 113,115,119	--	12.0	--	1	20	#12	#12	#12	3/4"
17	REC ELEV EQ 114	--	--	1.5	1	20	#12	#12	#12	3/4"
19	LGT ELEV EQ 114	0.5	--	--	1	20	#12	#12	#12	3/4"
21	REC ELEV PIT	--	1.5	--	1	20	#12	#12	#12	3/4"
23	LGT ELEV PIT	--	--	0.5	1	20	#12	#12	#12	3/4"
25	REC 110,111,112	12.0	--	--	1	20	#12	#12	#12	3/4"
27	REC 109	--	1.5	--	1	20	#12	#12	#12	3/4"
29	REC 109	--	--	3.0	1	20	#12	#12	#12	3/4"
31			--	--						
33		--		--						
35		--	--							
37	SPACE & BUS		--	--	3	100				
39	---	--		--	--	--				
41	---	--	--		--	--				
2	REC 101-103	10.5	--	--	1	20	#12	#12	#12	3/4"
4	REC 103	--	3.0	--	1	20	#12	#12	#12	3/4"
6	REC 118	--	--	12.0	1	20	#12	#12	#12	3/4"
8			--	--	1	20				
10	REC 104,108	--	7.5	--	1	20	#12	#12	#12	3/4"
12	REC 106,107	--	--	7.5	1	20	#12	#12	#12	3/4"
14	WH 121	21.6	--	--	2	30	#10	---	#10	3/4"
16	---	--	21.6	--	--	--	#10	---	---	---
18	RTU-1 ROOF	--	--	25.0	2	35				
20	---	25.0	--	--	--	--				
22	RTU-2 ROOF	--	38.0	--	2	60				
24	---	--	--	38.0	--	--				
26			--	--						
28		--		--						
30		--	--							
32			--	--						
34		--		--						
36		--	--							
38	SPACE & BUS		--	--	3	100				
40	---	--		--	--	--				
42	---	--	--		--	--				
	TOTAL AMPS/PHASE	141	159	144						

CIRCUIT	LOAD	AMPS A	AMPS B	AMPS C	BREAKER POLES	BREAKER SIZE	CIRCUIT CONDUCTORS PHASE	CIRCUIT CONDUCTORS NEUTRAL	CIRCUIT CONDUCTORS GROUND	MIN. CONDUIT SIZE
43	REC 2ND FL CORR	7.5	--	--	1	20	#12	#12	#12	3/4"
45	REC 1ST FL TOIL A	--	3.0	--	1	20	#12	#12	#12	3/4"
47		--	--							
49			--	--						
51		--		--						
53		--	--							
55			--	--						
57		--		--						
59		--	--							
61			--	--						
63		--		--						
65		--	--							
67			--	--						
69		--		--						
71		--	--							
73			--	--						
75		--		--						
77		--	--							
79	SPACE & BUS		--	--	3	100				
81	---	--		--	--	--				
83	---	--	--		--	--				
44	LGTS CORR AREA B	5.7	--	--	1	20				
46	LGTS EXIST RMS	--	10.7	--	1	20				
48	LGTS CORR AREA A	--	--	9.0	1	20				
50	LGTS EXIST RMS A	12.5	--	--	1	20				
52	LGTS EXIST RMS A	--	8.1	--	1	20				
54	LGTS EXIST AREA C	--	--	5.7	1	20				
56	LGTS AREA B LVL2	12.6	--	--	1	20				
58	LGTS CORR AREA A	--	12.9	--	1	20				
60	LGTS EXIST RMS A	--	--	15.0	1	20				
62	LGTS ANNEX	11.8	--	--	1	20				
64	LGTS ANNEX	--	15.4	--	1	20				
66		--	--							
68			--	--						
70		--		--						
72		--	--							
74			--	--						
76		--		--						
78		--	--							
80	SPACE & BUS		--	--	3	100				
82	---	--		--	--	--				
84	---	--	--		--	--				

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