CONSTRUCTION DOCUMENTS FOR
HABITAT FOR HUMANITY
LEE COUNTY
ADDRESS
FORT MYERS, FLORIDA

PROJECT BUILDING CODE INFORMATION

GENERAL INFORMATION

OCCUPANCY CLASSIFICATION:	FBC:	RESIDENTIAL, GROUP R-3
	NFPA:	ONE- AND TWO-FAMILY DWELLINGS
CONSTRUCTION TYPE:	FBC:	TYPE V-B
	NFPA:	TYPE V (000)
CHANGE OF OCCUPANCY:	N/A	
CLASSIFICATION OF WORK:	N/A	
MONITORED SPRINKLER SYSTEM:	NO	
ACCESSIBLE TO THE PHYSICALLY HANDICAP:	NO	
THRESHOLD BUILDING:	NO	
FIRE ALARM SYSTEM:	NO	

FBC TABLE 504.3 (ALLOWABLE HEIGHT ABOVE GRADE PLANE):

ALLOWABLE HEIGHT	40'-0"
ACTUAL HEIGHT	23'-5"
(AVG. HEIGHT OF HIGHEST ROOF, PER FBC DEFINITION)	

FBC TABLE 504.4 (ALLOWABLE STORIES ABOVE GRADE PLANE):

ALLOWABLE STORIES:	3
ACTUAL STORIES (Sa):	2

FBC TABLE 506.2 (ALLOWABLE AREA):

ALLOWABLE AREA FACTOR (At):	UNLIMITED
ALLOWABLE BUILDING AREA (Aa):	UNLIMITED
(Aa=At x Sa)	
ACTUAL BUILDING AREA (PER FBC DEFINITION):	6,748 S.F.
(SEE FLOOR PLANS FOR FLOOR AREAS)	

FBC-R 302.2 - TOWNHOUSE FIRE SEPARATION (PARTY WALL MIN. FIRE RESISTANCE RATING, HRS):
MIN. FIRE RESISTANCE RATING: 2 PROVIDED RATING: 2

TABLE 601 (FIRE-RESISTANCE RATING REQUIREMENTS FOR BLDG. ELEMENTS, HRS.):

BLDG. ELEMENT:	REQUIRED RATING:	PROVIDED RATING:
PRIMARY STRUCTURAL FRAME:	0	0
EXTERIOR BEARING WALLS:	0	0
INTERIOR BEARING WALLS:	0	0
NON-BEARING INTERIOR WALLS:	0	0
FLOOR CONSTRUCTION:	0	0
ROOF CONSTRUCTION:	0	0

TABLE 602 (FIRE-RESISTANCE RATING FOR EXT. WALLS BASED ON FIRE SEPARATION DISTANCE, FT.):

FIRE SEPARATION:	REQUIRED RATING:	PROVIDED RATING:
0 FT TO LESS 5 FT	-	N/A
5 FT TO LESS 10 FT	-	N/A
10 FT TO LESS 30 FT	-	N/A
30 FT AND OVER	0	0

NOTE:
G.C. SHALL COMPLY W/ FFPC 1: CHAPTER 16 SAFEGUARDS DURING BUILDING CONSTRUCTION.

SEPARATE PERMITS (NOT INCLUDED IN THIS SET OF DRAWINGS):
FLOOR TRUSSES, ROOF TRUSSES

APPLICABLE CODES:
2023 FLORIDA BUILDING CODE (FBC)
2023 FLORIDA BUILDING CODE, ACCESSIBILITY (FBC-A)
2023 FLORIDA BUILDING CODE, PLUMBING (FBC-P)
2023 FLORIDA BUILDING CODE, MECHANICAL (FBC-M)
2023 FLORIDA BUILDING CODE, ENERGY CONSERVATION (FBC-EC)
2017 NATIONAL ELECTRICAL CODE (NEC), NFPA 70
FLORIDA FIRE PREVENTION CODE, 8TH EDITION (FFPC)
2021 NFPA 1, FIRE CODE, 8TH EDITION
2021 NFPA 101, LIFE SAFETY, 8TH EDITION
LEE COUNTY LAND DEVELOPMENT CODE (LDC)
FLORIDA ADMINISTRATIVE CODE (FAC)
FLORIDA STATUTES (FS)

DESIGN WIND LOAD:

ULTIMATE DESIGN WIND SPEED V(ult):	160 MPH
NOMINAL DESIGN WIND SPEED V(asd):	124 MPH
RISK CATEGORY:	II
EXPOSURE CATEGORY:	C
INTERNAL PRESSURE COEFFICIENT:	+/- 0.18 (ENCLOSED BLDG.)

ABBREVIATIONS:

NL:	NO LIMIT
SF:	SQUARE FEET
N/A:	NOT APPLICABLE
NC:	NON-COMBUSTIBLE
NS:	NONSPRINKLERED
A:	PROTECTED
B:	UNPROTECTED
UA:	UNLIMTED AREA
NS:	NON-SPRINKLERED BUILDING
S:	SPRINKLERED BUILDING
S13R:	SPRINKLERED BUILDING (LOW-RISE RESIDENTIAL)
S1:	SPRINKLERED BUILDING (MAXIMUM ONE STORY)
SM:	SPRINKLERED BUILDING (TWO OR MORE STORIES)

ARCHITECT OF RECORD

- STRUCTURAL
- PLUMBING

MK ARCHITECTURE

ELECTRICAL, MECHANICAL

NPS | Consulting

MECHANICAL | ELECTRICAL | PLUMBING | ENGINEERING
2534 SE SANTA BARBARA PLACE
CAPE CORAL, FLORIDA 33904
239.770.0513 | NPSCONSULTINGLLC@OUTLOOK.COM
NICHOLAS P. STEWART | PRESIDENT
CA# 32236
WWW.NPSConsultingLLC.COM
© COPYWRIGHTED 2018

COMPLIANCE STATEMENT

THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY A FLORIDA REGISTERED ARCHITECT. TO THE BEST OF OUR KNOWLEDGE THESE PLANS AND SPECIFICATIONS ARE DESIGNED IN COMPLIANCE WITH THE 2023 FLORIDA BUILDING CODE, INCLUDING SECTION 1609 FOR DESIGN WIND PRESSURES GENERATED BY AN ULTIMATE DESIGN WIND VELOCITY OF 160 MPH. THE FOLLOWING CODES ALSO APPLY TO THE PROJECT: THE 8TH EDITION OF THE FLORIDA FIRE PREVENTION CODE, CODE OF ORDINANCES OF LEE COUNTY AND FLORIDA STATUTES (F.S.) AS WELL AS OTHER CODES AND ORDINANCES AS ADOPTED BY LEE COUNTY OR THE CITY OF FORT MYERS.

INDEX OF DRAWINGS

ARCHITECTURAL

A0.1	COVER SHEET
A0.2	SYMBOLS, NOTES AND LEGENDS
A0.3	ARCHITECTURAL OUTLINE SPECIFICATIONS
A0.4	ARCHITECTURAL SITE PLAN
A0.5	LIFE SAFETY PLAN
A1.1	FIRST FLOOR OVERAL PLAN
A1.2	SECOND FLOOR OVERALL PLAN
A1.3	FIRST FLOOR "UNIT A" PLANS
A1.4	SECOND FLOOR "UNIT A" PLANS
A1.5	FIRST FLOOR "UNIT B" PLANS
A1.6	SECOND FLOOR "UNIT B" PLANS
A2.1	ROOF PLAN
A3.1	INTERIOR ELEVATIONS AND DETAILS
A4.1	DOOR, ROOM FINISH, AND WINDOW SCHEDULES
A4.2	DETAILS
A5.1	EXTERIOR ELEVATIONS
A6.1	BUILDING SECTION AND WALL TYPES
A6.2	WALL SECTIONS
A6.3	STAIR PLAN, SECTION, AND DETAILS
A7.1	UL DETAILS
A7.2	UL DETAILS
A7.3	UL DETAILS

STRUCTURAL

S1	STRUCTURAL SPECIFICATIONS
S2	STRUCTURAL SPECIFICATIONS, CONT.
S3	FOUNDATION PLAN
S4	SECOND FLOOR FRAMING PLAN
S5	ROOF FRAMING PLAN
S6	STRUCTURAL DETAILS

PLUMBING

P1	PLUMBING SPECIFICATIONS AND SYMBOLS
P2	FIRST FLOOR DOMESTIC WATER PLAN
P3	SECOND FLOOR DOMESTIC WATER PLAN
P4	FIRST FLOOR SANITARY PLUMBING PLAN
P5	SECOND FLOOR SANITARY PLUMBING PLAN
P6	SANITARY ISOMETRIC

MECHANICAL

M1	MECHANICAL SPECIFICATIONS
M2	MECHANICAL PLANS

ELECTRICAL

E1	ELECTRICAL OVERALL FOOR PLANS AND SYMBOLS
E2	ELECTRICAL UNIT PLANS AND PANEL SCHEDULES
E3	PANEL SCHEDULES AND RISER DIAGRAMS
E4	PANEL SCHEDULES

PROGRESS SET - NOT FOR CONSTRUCTION

No:	REVISIONS
1	-
2	-
3	-
4	-
5	-

CONSTRUCTION DOCUMENTS FOR
HABITAT FOR HUMANITY
4-UNIT TOWNHOUSE
FORT MYERS, FLORIDA
(SEE COVER SHEET FOR FULL BUILDING ADDRESS)

MK Architecture LLC
8200 College Parkway, Suite 101
Fort Myers, Florida 33919
239.482.2121
AR10564 ID6790
www.MK-ARCH.com

MICHAEL K. SHEELEY
REG. # 0010564
STATE OF FLORIDA
MICHAEL K. SHEELEY
AR0010564
REGISTERED ARCHITECT

JOB:	MK24020
DATE:	2-7-25
DRWN. BY:	SLVB
CAD REF:	COV

SHEET
A0.1

MK Architecture, LLC hereby reserves its common law copyright and other property rights in these plans, designs, arrangements and ideas. These ideas, plans and designs are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party without first obtaining the express written permission from MK Architecture, LLC. Contractors shall verify and be responsible for all dimensions and conditions of the job. MK Architecture, LLC shall be notified in writing of any variations or discrepancies from the dimensions, conditions and specifications shown by these drawings. All construction shall be in accordance with the current Florida Building Code.

C:\USERS\USER\MK ARCHITECTURE DROPBOX\MK DESIGN FILES\ACAD\DWGS\MK ARCH\MK24020-HABITAT TOWNHOUSES-LEE COUNTY\~4-UNIT\CONSTRUCTION DOCUMENTS\MK24020-4-A0.1-COV.DWG \ February 11, 2025

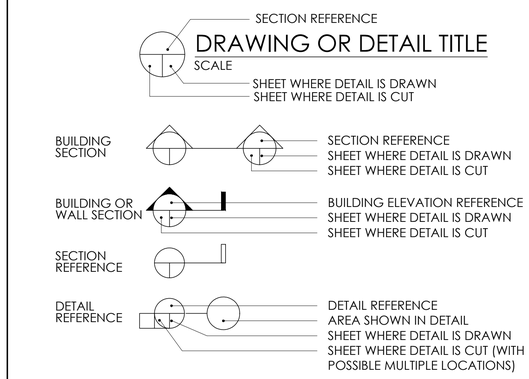
ABBREVIATIONS

A.B.	ANCHOR BOLT	HORIZ.	HORIZONTAL
A/C	AIR CONDITIONING	INSUL.	INSULATION
ACOUS.	ACOUSTICAL	L.V.P.	LUXURY VINYL PLANK
A.F.F.	ABOVE FINISHED FLOOR	MAX.	MAXIMUM
A.H.U.	AIR HANDLER UNIT	M.D.F.	MEDIUM-DENSITY FIBERBOARD
ALUM.	ALUMINUM	MEZZ.	MEZZANINE
APPROX.	APPROXIMATELY	MFGR.	MANUFACTURER
B.E.J.	BUILDING EXPANSION JOINT.	MIL.	MILLIMETER
BLDG.	BUILDING	MIN.	MINIMUM
B.O.	BOTTOM OF	M.O.	MASONRY OPENING
B.O.F.	BOTTOM OF FOOTING	M.R.	MOISTURE RESISTANT
B.R.G.	BEARING	N.I.C.	NOT IN CONTRACT
BURN.	BURNISHED	N.O.A.	NOTICE OF ACCEPTANCE
C/C	CENTER TO CENTER	N.T.S.	NOT TO SCALE
C.I.	CAST IRON	O.A.	OVERALL
C.I.P.	CAST IN PLACE	O.C.	ON CENTER
C.L.	CLEAR	O.H.	OPPOSITE HAND
C.M.U.	CONCRETE MASONRY UNIT	P.C.F.	POLISHED CONCRETE FLOOR
COL.	COLUMN	P. LAM.	PLASTIC LAMINATE
CONC.	CONCRETE	PL.	PLATE
C.O.	CLEAN OUT	P.T.	PRESSURE TREATED
CONST.	CONSTRUCTION	PTD.	PAINTED
CONT.	CONTINUOUS	REINF.	REINFORCED OR REINFORCING
C.J.	CONTROL JOINT	REQ.	REQUIRED
C.T.	CERAMIC TILE	R.O.	ROUGH OPENING
C.U.	CONDENSING UNIT	S.A.T.	SUSPENDED ACOUSTICAL TILE
℄	CENTERLINE	S.B.	SPLASHBLOCK
DIA.	DIAMETER	S.C.	SOLID CORE
DIM.	DIMENSION	SCH.	SCHEDULE
DWG.	DRAWING	S.F.	SQUARE FEET
D.S.	DOWNSPOUT	SHT.	SHEET
DTL	DETAIL	S.I.	SQUARE INCHES
EA.	EACH	SIM.	SIMILAR
ELEC.	ELECTRICAL	SQ.	SQUARE
ELEV.	ELEVATION OR ELEVATOR	S.S.	STAINLESS STEEL
E.J.	EXPANSION JOINT	S.S.M.	SOLID SURFACE MATERIAL
E.P.S.	EXPANDED POLYSTYRENE FOAM	STRUC.	STRUCTURAL
E.Q.	EQUAL	STL.	STEEL
ETC.	ETCETERA	S.V.F.	SHEET VINYL FLOORING
E.W.C.	ELECTRIC WATER COOLER	T.B.B.	TILE BACKER BOARD
EXH.	EXHAUST	T.G.	TEMPERED GLASS
EXIST.	EXISTING	T.O.	TOP OF
EXP.	EXPANSION	T.O.B.	TOP OF BEAM
F.D.	FLOOR DRAIN	T.O.M.	TOP OF MASONRY
F.E.	FIRE EXTINGUISHER	T.O.P.	TOP OF PRE-CAST
F.E.C.	FIRE EXTINGUISHER CABINET	T.O.S.	TOP OF SLAB
F.F.E.	FINISH FLOOR ELEVATION	T.O.W.	TOP OF WALL
FG.	FIBERGLASS	TYP.	TYPICAL
FIN.	FINISHED	U.L.	UNDERWRITERS LABORATORIES
FLR.	FLOOR	U.N.O.	UNLESS NOTED OTHERWISE
F.P.A.	FLORIDA PRODUCT APPROVAL	V.E.J.	VENEER EXPANSION JOINT
F.R.P.	FIBERGLASS REINFORCED PLASTIC	V.PL.	VENEER PLASTER
F.R.T.	FIRE RETARDANT TREATED	VERT.	VERTICAL
F.S.	FLOOR SINK	V.C.T.	VINYL COMPOSITION TILE
GA.	GAUGE	V.I.F.	VERIFY IN FIELD
GALV.	GALVANIZED	V.O.C.	VOLATILE ORGANIC COMPOUNT
G.C.	GENERAL CONTRACTOR	W/	WITH
G.W.B.	GYPSUM WALL BOARD	W.H.	WATER HEATER
HT.	HEIGHT	W.P.M.	WATERPROOF MEMBRANE
H.C.	HOLLOW CORE	W.R.	WATER RESISTANT
H.M.	HOLLOW METAL	WSCT.	WAINSCOT
HDWD.	HARDWOOD	W.W.F.	WELDED WIRE FABRIC
HDWR.	HARDWARE		

GENERAL NOTES

1. THE CONSTRUCTION DOCUMENT PACKAGE REPRESENTS THE BASIC PROJECT SCOPE AND CONSTRUCTION REQUIREMENTS AND ALL WORK ASSOCIATED W/ THIS PROJECT SHALL CONFORM TO ALL APPLICABLE CODES, LAWS AND LOCAL ENACTMENT ORDINANCES. THE CONTRACTOR, SUBCONTRACTOR AND/OR SUPPLIERS FOR THIS PROJECT SHALL EXAMINE AND BECOME FAMILIAR WITH ALL CONTRACT DOCUMENTS IN THEIR ENTIRETY. SUB-CONTRACTORS SHALL PREPARE BIDS FROM THE ENTIRE SET OF DOCUMENTS AND SHALL NOT BE ALLOWED TO BID BASED ON ONLY A PARTIAL REVIEW. ALL COSTS SUBMITTED SHALL BE BASED ON A THOROUGH KNOWLEDGE OF THE WORK AND THE MATERIALS REQUIRED. ANY DISCREPANCY AND/OR UNCERTAINTY AS TO WHAT MATERIAL OR PRODUCT IS TO BE USED SHOULD BE VERIFIED W/ THE OWNER AND/OR ARCHITECT PRIOR TO BID.
2. UNLESS OTHERWISE INDICATED, EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF BLOCK AND CENTERLINE OF STRUCTURAL COLUMNS. INTERIOR DIMENSIONS ARE TO FACE OF STUD OR C.M.U. DIMENSIONS ARE NOMINAL AND MAY NOT REFLECT THE ACTUAL THICKNESS.
3. SEE CIVIL DRAWINGS FOR FINISH FLOOR AND GRADE ELEVATIONS, SIDEWALK, CURBS, ETC.
   A. THE GENERAL CONTRACTOR SHALL FILE A NOTICE OF COMMENCEMENT BEFORE START OF WORK IN ACCORDANCE W/ F.B.C. SECTION 105.8.
   B. ALL FINISH FLOOR ELEVATION MARKS REFER TO THE NORTH AMERICAN VERTICAL DATUM UNLESS OTHERWISE NOTED. SEE PROPERTY LEGAL SURVEY.
   C. CONTRACTOR PERFORMING THE WORK IS TO REFER TO STRUCTURAL PLANS FOR CONSTRUCTION ELEVATIONS. THE CONTRACTOR PERFORMING THE WORK TO COORDINATE UTILITY AND M.E.P. TRADES TO INSURE FINAL ELEVATIONS ARE MAINTAINED.
4. FILL ALL VOIDS BETWEEN TOP OF MASONRY, STRUCTURE AND DECK WITH SEMI-REFRACTORY SAFING INSULATION.
5. ALL METAL STUDS ARE TO BE 20 GAUGE UNLESS NOTED OTHERWISE.
6. ALL INTERIOR WALL AND CEILING FINISHES SHALL BE EITHER CLASS A OR B. ALL INTERIOR FLOOR FINISHES SHALL BE NOT LESS THAN CLASS II.
7. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS REQUIRED TO COMPLETE THE WORK WITH GOOD WORKMANSHIP AND ASSURE PROPER WORKING ORDER.
8. MODIFICATIONS TO EXISTING WHERE APPLICABLE, AND/OR INSTALLATION OF NEW FIRE SPRINKLER AND FIRE ALARM SYSTEMS REQUIRE SEPARATE PERMIT(S), AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
9. THESE PLANS ARE THE PROPERTY OF MK ARCHITECTURE, INC. AND SHALL NOT BE REPRODUCED, CHANGED OR USED IN ANY WAY WITHOUT THE EXPRESSED WRITTEN CONSENT OF MK ARCHITECTURE, INC.

REFERENCE INDICATORS



LEGEND OF SYMBOLS

ROOM NAME 101	- ROOM NAME AND NUMBER	A	- WALL TYPE
202	- DOOR NUMBER	B	- WINDOW FRAME
2	- KEY NOTES	TA-2	- TOILET ACCESSORY
4	- BORROW LIGHT		

WOOD FURRING CHART

BLDG TYPE	FIRE TREATED		PRESERVATIVE TREATED		NO TREATMENT
	CONTACTING CMU / CONC.	OTHER	CONTACTING CMU / CONC.	OTHER	
I	X	X	X		
II	X	X	X		
III	X (A)		X		
IV	X (A)		X		
V			X		X

NOTES:
(A) IN EXTERIOR WALLS

MATERIALS LEGEND

EARTH	ROUGH WOOD
GRAVEL	PLYWOOD
CONCRETE (SHOWN IN PLAN)	FINISHED WOOD
CONCRETE (SHOWN IN SECTION)	GYPSUM BOARD OR SHEATHING
CONCRETE MASONRY UNIT	GLASS
BRICK	RIGID INSULATION
STEEL	BATT INSULATION
STUCCO	

SCOPE OF WORK

THE PROPOSED PROJECT IS A TOWNHOUSE WITH MULTIPLE UNITS TO BE BUILT ADJACENT TO OTHER SIMILAR TOWNHOUSES IN FORT MYERS, FLORIDA. EACH INDIVIDUAL DWELLING UNIT IS SEPARATED BY A 2-HOUR FIRE RESISTANCE-RATED PARTY WALL AND IS CONSIDERED A ONE- AND TWO- FAMILY DWELLING.

FLORIDA PRODUCT APPROVAL

SECTION A:	DOORS				
#	COMPONENT	MANUFACTURER / MODEL	IMPACT	FL PA	EXP. DATE
1	SWINGING	THURMA-TRU CORPORATION / BENCHMARK DOORS	YES	FL# 13459.1	12/31/2026
2	SLIDING	PGT INDUSTRIES / SGD - 770	YES	FL# 251.4	2/17/2025
3	GARAGE	CLOPAY BUILDING PRODUCTS COMPANY / W7-09 PAN-2F153	YES	FL# 5684.2	12/31/2026

SECTION B:	WINDOWS				
#	COMPONENT	MANUFACTURER / MODEL	IMPACT	FL PA	EXP. DATE
2	FIXED	PGT INDUSTRIES / PW-7720A	YES	FL# 243.8	2/19/2029
4	HORIZ. SLIDER	PGT INDUSTRIES / HR-7710A	YES	FL# 242.4	8/23/2028

SECTION C:	ROOFING PRODUCTS			
#	COMPONENT	MANUFACTURER / MODEL	FL PA	EXP. DATE
1	ASPHALT SHINGLES	OWEN'S CORNING / DURATION SHINGLES	FL# 10674.1	12/31/2099
2	UNDERLAYMENT	SOPREMA , INC. / SOPREMA ROOF UNDERLAYMENTS	FL# 2569.1	5/9/2026

SECTION D:	STORM SHUTTERS			
#	COMPONENT	MANUFACTURER / MODEL	FL PA	EXP. DATE

SECTION E:	PANEL WALLS			
#	COMPONENT	MANUFACTURER / MODEL	FL PA	EXP. DATE
1	SOFFITS	AMERIMAX HOME PRODUCTS / STANDARD "V" PANEL	FL# 5896.1	12/31/2024
2	SIDING	PLY GEM SIDING GROUP / GEORGIA PACIFIC VINYL SIDING	FL# 35331.1	12/31/2026

MASONRY FIRE RESISTANCE RATING

F.B.C. 2023: BASED ON SECTION 722 CALCULATED FIRE RESISTANCE

CALCULATED FIRE RESISTANCE

722.3.1.1 **Concrete masonry. Equivalent thickness. Concrete masonry unit plus finishes.** The equivalent thickness of concrete masonry assemblies is the sum of the equivalent thickness of the cmu plus the equivalent thickness of finishes:

$T_{eq} = T_e + T_{ef}$ (Equation 7-6) where: T_e = Equivalent thickness of cmu* ; T_{ef} = Equivalent thickness of finishes

722.3.1.2 *For partially grouted construction, T_e is the cmu value as determined by ASTM C140.

722.3.1.3 *For solid grouted construction, T_e is the actual thickness of the unit.

722.3.1.4 *For airspaces and cells filled with loose-fill materials below, the equivalent thickness is the actual thickness of the hollow cmu:

- Sand, pea gravel, crushed stone, or slag meeting ASTM C33
- Pumice, scoria, expanded shale, expanded clay, expanded slate, expanded slag, expanded fly ash, or cinders meeting ASTM C331
- Perlite meeting ASTM C549
- Vermiculite meeting ASTM C516

722.3.2.1 **Concrete masonry walls. Finish on nonfire-exposed side.** Concrete masonry walls and partitions with plaster or gypsum wallboard applied to the NON-fire-exposed side:
Equivalent thickness of plaster or gypsum wallboard corrected by factor from Table 722.2.1.4(1) and added to the equivalent thickness of the masonry.
That sum is used to determine the rating from Table 722.3.2.

722.3.2.2 **Finish on fire-exposed side.** Concrete masonry walls and partitions with plaster or gypsum wallboard applied to the fire-exposed side:
The time assigned to the finish per Table 722.2.1.4(2) is added to the rating for the concrete masonry alone, or to the sum of the concrete masonry and finish on the nonfire-exposed side per 722.3.2.1.

722.3.2.3 **Nonsymmetrical assemblies.** Where a wall may have no finish on one side, or different types of finishes on each side, perform calculations for each as a fire-exposed side and use the lower value. **Exception:** Exterior walls with more than 5 feet of horizontal separation, only the interior side will be assumed to be the fire-exposed side.

722.3.2.4 **Minimum concrete masonry fire-resistance.** Where the finish applied to a concrete masonry wall contributes to the fire-resistance rating, the masonry must provide at least half the total rating.

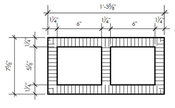
705.5 **Fire-Resistance Ratings** Exterior walls shall be fire-resistance rated in accordance with Tables 601 and 602. The required fire-resistance rating of exterior wall with a fire separation of greater than 10 feet shall be rated for exposure to fire from the inside. The required fire-resistance rating of exterior wall with a fire separation distance of less than or equal to 10 fett shall be rated for exposure to fire from both sides.

722.3.2 Concrete masonry walls.
The *fire-resistance rating* of walls and partitions constructed of concrete masonry units shall be determined from Table 722.3.2. The rating shall be based on the equivalent thickness of the masonry and type of aggregate used.

TABLE 722.3.2 MINIMUM EQUIVALENT THICKNESS (inches) OF BEARING OR NONBEARING CONCRETE MASONRY WALLS[a,b,c,d]

TYPE OF AGGREGATE	FIRE-RESISTANCE RATING (hours)																							
	1/4	1/2	3/4	1	1 1/2	2	3	4	1/4	1/2	3/4	1	1 1/2	2	3	4	1/4	1/2	3/4	1	1 1/2	2	3	4
Pumice or expanded slag	2.5	2.5	2.5	2.5	2.5	3.1	3.8	4.6	2.5	2.5	2.5	2.5	2.5	2.5	3.5	4.3	2.5	2.5	2.5	2.5	2.5	2.5	3.2	4.0
Expanded shale, clay or slate	2.5	2.5	2.5	2.5	2.5	2.9	3.6	4.3	2.5	2.5	2.5	2.5	2.5	2.9	3.6	4.3	2.5	2.5	2.5	2.5	2.5	2.9	3.6	4.3
Limestone, cinders or unexpanded slag	2.5	2.5	2.5	2.5	2.5	2.9	3.6	4.3	2.5	2.5	2.5	2.5	2.5	2.9	3.6	4.3	2.5	2.5	2.5	2.5	2.5	2.9	3.6	4.3
Calcareous or siliceous gravel	2.5	2.5	2.5	2.5	2.5	2.9	3.6	4.3	2.5	2.5	2.5	2.5	2.5	2.9	3.6	4.3	2.5	2.5	2.5	2.5	2.5	2.9	3.6	4.3

For SI: 1 inch = 25.4 mm.
a. Values between those shown in the table can be determined by direct interpolation.
b. Where combustible members are framed into the wall, the thickness of solid material between the end of each member and the opposite face of the wall, or between members set in from opposite sides, shall not be less than 0.5 percent of the thickness shown in the table.
c. Requirements of ASTM C 55, ASTM C 73, ASTM C 90 or ASTM C 744 shall apply.
d. Minimum required equivalent thickness corresponding to the hourly fire-resistance rating for units with a combination of aggregate shall be determined by linear interpolation based on the percent by volume of each aggregate used in manufacture.



Equivalent Thickness
Table 722.3.2
Limestone Concrete:
3.6 in. = 100 min. fire rating

CONC. MASONRY UNIT (TYP.)
SCALE: N.T.S.

2 hr. Fire Rated Exterior Wall Assembly *(Table 722.2.1.4(2))*

Tef (required) = 4" equiv. thickness = 120 min.

Te (8" CMU)	=	*3.6 "*
Te (5/8" Plaster)*	=	*.675 "*
Tef	=	***4.22 " > 4 " (Equals ~ 125 min.)***
Te (5/8" Gyp Bd.)	=	*20 min.*
		145 min. > 120 min. required

**(Portland cement-sand plaster applied directly to the concrete or concrete masonry)*

PROGRESS SET - NOT FOR CONSTRUCTION

No:	REVISIONS
1	-
2	-
3	-
4	-
5	-

CONSTRUCTION DOCUMENTS FOR
HABITAT FOR HUMANITY
4-UNIT TOWNHOUSE
FORT MYERS, FLORIDA
(SEE COVER SHEET FOR FULL BUILDING ADDRESS)

MK Architecture LLC
8200 College Parkway, Suite 101
Fort Myers, Florida 33919
239.482.2121
AR10564 ID6790
www.MK-ARCH.com

MICHAEL K. SHEELEY
REG. # 0010564
STATE OF FLORIDA
MICHAEL K. SHEELEY
AR0010564
REGISTERED ARCHITECT

JOB:	MK24020
DATE:	2-7-25
DRWN. BY:	SLVB
CAD REF:	SYMB

SHEET
A0.2

MK Architecture, LLC hereby reserves its common law copyright and other property rights in these plans, designs, arrangements and ideas. These ideas, plans and designs are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party without first obtaining the express written permission from MK Architecture, LLC. Contractors shall verify and be responsible for all dimensions and conditions of the job. MK Architecture, LLC shall be notified in writing of any variations or discrepancies from the dimensions, conditions and specifications shown by these drawings. All construction shall be in accordance with the current Florida Building Code.

C:\USERS\USER\MK ARCHITECTURE DROPBOX\MK DESIGN FILES\ACAD\DWGS\MK ARCH\MK24020-HABITAT TOWNHOUSES-LEE COUNTY\~COMMON\MK24020-A0.2-SYMB.DWG \ February 11, 2025

ARCHITECTURAL OUTLINE SPECIFICATIONS

NOTE:
SEE CONSULTANT SHEETS FOR ALL CIVIL, STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL ITEMS SPECIFIC TO THIS PROJECT.

DIVISION 1: GENERAL REQUIREMENTS

A. NOTICES
1. THE GENERAL CONTRACTOR SHALL FILE A NOTICE OF COMMENCEMENT BEFORE START OF WORK IN ACCORDANCE W/ F.B.C. 2023, SECTION 105.8.

B. SHOP DRAWINGS/SUBMITTALS
1. ALL SHOP DRAWINGS REQUIRE ARCHITECT'S REVIEW.
2. PROVIDE ORIGINAL AND/OR SUBMIT ELECTRONICALLY UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ARCHITECT.
3. SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE W/ THE CONTRACT DOCUMENTS, ELEVATIONS, SIZES, ETC. THE CONTRACT DOCUMENTS WILL GOVERN OVER THE SHOP DRAWINGS.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE W. THE DESIGN INTENT OF THE CONTRACTOR DOCUMENTS ONLY.

C. RECORDS
1. MAINTAIN ONE (1) SET OF CONSTRUCTION DOCUMENTS IN FIELD OFFICE, NOT TO BE USED IN FIELD CONSTRUCTION, FOR USE AS 'AS-BUILT' RECORD. RECORDS SHALL BE KEPT DAILY USING COLORED PENCIL. AT COMPLETION OF CONSTRUCTION, REQUEST AND PAY FOR SET OF REPRODUCIBLES OF CONSTRUCTION DRAWINGS FROM ORIGINAL TRACINGS. PROVIDE SET TO ARCHITECT FOR HIS USE IN DOCUMENTING AS-BUILT CONDITIONS.

D. GUARANTY/WARRANTY
1. THE GENERAL CONTRACTOR SHALL, IN THE CASE OF WORK PERFORMED BY HIS SUB-CONTRACTORS AND WHERE GUARANTEES ARE REQUIRED, SECURE WARRANTIES FROM SAID SUB-CONTRACTORS AND DELIVER COPIES OF SAME TO ARCHITECT UPON COMPLETION OF WORK.
2. THE GENERAL CONTRACTOR SHALL AND HEREBY WARRANT ALL WORK PERFORMED BY HIM DIRECTLY AND FOR WHICH GUARANTEES ARE APPLICABLE FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE OF THE WORK.

E. SPECIALTY ENGINEERED PRODUCTS
1. THE FOLLOWING SYSTEMS AND COMPONENTS REQUIRE FABRICATION AND ERECTION DRAWINGS PREPARED BY DELEGATED ENGINEER, SECURED BY THE GENERAL CONTRACTOR:
   a. TRUSS FRAMING SYSTEMS
   b. LOUVERS
   c. CANOPIES
   d. AWNINGS
   e. STRUCTURAL PRE-CAST SYSTEMS
   f. PRE-FABRICATED STAIRS AND RAILINGS
2. SUBMITTALS SHALL IDENTIFY THE PROJECT, APPLICABLE CODES AND LIST THE DESIGN CRITERIA. SUBMITTALSSHALL ALSO SHOW ALL DETAILS AND PLANS NECESSARY FOR PROPER FABRICATION AND INSTALLATION.CALCULATIONS AND SHOP DRAWINGS SHALL IDENTIFY SPECIFIC PRODUCT UTILIZED. GENERIC PRODUCTSWILL NOT BE ACCEPTED.
3. SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED UNDER DIRECT SUPERVISION AND CONTROL OF THE DELEGATED ENGINEER.
4. SHOP DRAWINGS AND CALCULATIONS REQUIRE THE SEAL, DATE AND SIGNATURE OF THE DELEGATEDENGINEER.

DIVISION 2: SITE WORK

A. TERMITE PROTECTION ALL SOILS TO BE CHEMICALLY TREATED FOR TERMITE PROTECTION ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND IN ACCORDANCE WITH F.B.C. 2023, SECTION 1816. A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY THE LICENSED PEST CONTROL COMPANY THAT CONTAINS THE FOLLOWING STATEMENT: 'THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. TREATMENT IS IN ACCORDANCE W/ THE RULES AND LAWS ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.

DIVISION 3: NON STRUCTURAL CONCRETE

A. ALL NON-STRUCTURAL CONCRETE IS TO BE BATCH MIXED BY A CONCRETE MANUFACTURER AND DELIVERED TO SITE. ALL CONCRETE MUST HAVE AT LEAST 3000 PSI COMPRESSIVE STRENGTH. REINFORCING WILL BE AS SHOWN ON THE DRAWINGS.

DIVISION 4: MASONRY

A. MORTAR
1. COLORED MORTAR IS TO COMPLY WITH THE LATEST REQUIREMENTS OF ASTM C91. PROPERLY MIXED WITH 2-1/4 TO 3 PARTS SAND, CONFORMING TO ASTM C 144, THE MORTAR SHOULD EXCEED REQUIREMENTS OF ASTM C 270 FOR TYPE N, TYPE S OR TYPE M AS SPECIFIED BY THE ARCHITECT. FIELD MIXING WITH BAGS OF COLOR ON SITE WILL NOT BE ALLOWED.
2. GRAY MORTAR IS TO BE MANUFACTURERS STANDARD GRAY MORTAR MIXED AS DIRECTED BY MANUFACTURER TO PROVIDE A TYPE N, S OR M FORMULATION AS REQUIRED.

B. CONCRETE MASONRY UNITS
1. ALL CONCRETE MASONRY UNITS MUST FULLY COMPLY WITH ASTM C-90 SPECIFICATION FOR HOLLOW LOAD BEARING UNITS, TYPE II, NON-MOISTURE CONTROLLED. REFER TO DRAWING FOR SIZES. MATERIAL MAKEUP IS TO BE AS REQUIRED BY THE 2023 FLORIDA BUILDING CODE FOR RATED AND NON-RATED APPLICATIONS.

C. MASONRY REINFORCING
1. WALL REINFORCING SHALL BE BY DUR-O-WAL, INC., HECKMAN BUILDING PRODUCTS, INC. OR HOHMANN AND BARNARD, INC. OF THE TYPE SPECIFIED OR AS REQUIRED TO MEET APPLICABLE CODES AND STRUCTURAL REQUIREMENTS.

DIVISION 5: METALS

A. MISCELLANEOUS METALS
1. ALL STEEL STAIRS, LADDERS AND STEEL RAILINGS ARE TO BE ASSEMBLED USING THE CRITERIA OF THE AISC.
2. ALL ALUMINUM STAIRS AND LADDERS ARE TO BE 6061-T6 ALLOY.
3. ALL ALUMINUM RAILINGS, ETC. ARE TO BE 6063-T52 ALLOY WITH AN ANODIZED OR POWDER COAT FINISH.

DIVISION 6: WOOD

A. LUMBER AND PLYWOOD
1. FRAMING LUMBER SHALL BE S4S, NO. 2 OR BETTER, HEM-FIR, LIGHT FRAMING STUD GRADE, HAVING A MOISTURE CONTENT NOT EXCEEDING NINETEEN (19) PERCENT WHEN DELIVERED TO THE JOBSITE. WOOD NAILERS ON STEEL FRAMING AND CONCRETE BEAMS SHALL BE NO. 2 KD SOUTHERN PINE PRESSURE-TREATED, SUPPLIED AT FIFTEEN (15) PERCENT MOISTURE CONTENT, OR LESS.
2. FURRING STRIPS, WOOD LATH AND PLASTER GROUNDS SHALL BE PRESSURE TREATED, #2 COMMON SOUTHERN YELLOW PINE, 1" BY 2". METAL FURRING MAY BE SUBSTITUTED IN LIEU OF WOOD FRAMING. WOOD FURRING SHALL BE FIRE-RESISTANT TREATED IN TYPE I, II AND IV CONSTRUCTION (NON-COMBUSTIBLE).
3. NAILS SHALL BE OF SIZE AND TYPE COMMONLY USED FOR FRAMING AND FINISH WORK. ALL NAILS ON THE EXTERIOR SHALL BE HOT-DIPPED GALVANIZED. FASTENERS FOR SECURING MISCELLANEOUS FIXTURES, EQUIPMENT, GROUNDS, BLOCKING, STRUCTURAL SUPPORTS, ETC. SHALL BE EQUAL TO THOSE OF MOLLY CONSTRUCTION PRODUCTS, OF TYPE SUITABLE FOR THE SPECIFIC APPLICATION, ACCORDING STANDARD CONSTRUCTION PRACTICE.
4. INTERIOR WOOD TRIM, INCLUDING WOOD BASES AND MISCELLANEOUS TRIM, SHALL BE OF STOCK DESIGN, OF PAINT GRADE WHITE PINE OR FIR.
5. TREATED FRAMING: ALL FRAMING LUMBER WITH A WOOD PRESERVATIVE SHALL BE PRESSURE TREATED BY THE WOLMAN OR CELCURE PROCESS OF #2 COMMON YELLOW PINE.
6. ALL PLYWOOD SHALL BE OF THE THICKNESS SHOWN ON THE DRAWINGS. PLYWOOD SHALL CONFORM TO COMMERCIAL STANDARDS ISSUED BY THE U.S. DEPARTMENT OF COMMERCE. PLYWOOD SHALL BE A-B GRADE, ROTARY CUT, WHERE BOTH SIDES ARE EXPOSED. A-C GRADE SHALL BE USED WHERE ONE SIDE IS EXPOSED AND B-C AS SPECIFIED FOR LAMINATE WORK. ALL OTHER PLYWOOD SHALL BE C-C EXTERIOR OR APA-EXPOSURE 1. ALL PLYWOOD USED SHALL NOT HAVE ADDED UREA-FORMALDEHYDE.

B. SHELVING AND CABINETWORK
1. SHELVING
   a. SHELVING IN CABINETS SHALL BE MINIMUM ¾" THICK PLYWOOD WITH MELAMINE FINISH, UNLESS NOTED OTHERWISE ON DRAWINGS.
   b. SHELVES SPECIFIED IN AREAS OTHER THAN CABINETS SHALL BE MINIMUM [" THICK PLYWOOD W/ SOLID 1x2 WOOD EDGE, UNLESS NOTED OTHERWISE ON DRAWINGS.
   c. ALL SHELVING SHALL BE ADJUSTABLE, COMPLETE WITH ALL REQUIRED ACCESSORIES, AND HARDWARE.
2. CABINET WORK
   a. CABINET SIDE PANELS, EXTERIOR FRAMES, SOFFITS AND DOORS SHALL BE 5/8" THICK MINIMUM PLYWOOD WITH PLASTIC LAMINATE ON ALL EXTERIOR / INTERIOR SIDES AND FACES.
   b. TOPS SHALL BE B-C EXT. [" PLYWOOD, WITH PLASTIC LAMINATE ON EXPOSED SURFACES AND BACK SPLASHES.
   c. PLYWOOD SHALL NOT HAVE ADDED UREA-FORMALDEHYDE.
3. ALL CABINET WORK JOINTS SHALL BE GLUED AND NAILED UTILIZING A CASEIN GLUE THAT DRIES CLEAR.
4. PLASTIC LAMINATE FINISHING FOR EXTERIOR EXPOSED SURFACES SHALL BE $\frac{1}{32}$" THICK AND $\frac{1}{16}$" THICKNESS FOR COUNTERTOPS.
5. ALL EXPOSED PLYWOOD NOT RECEIVING PLASTIC LAMINATE TO BE PAINTED SEMI-GLOSS ENAMEL, OR MULTICOLOR SPRAY LACQUER FINISH. ALL FINISHES SHALL BE SHOP APPLIED BY CABINETMAKER. FILL AND SAND EDGES BEFORE PAINTING.
6. FLAKE BOARD SHALL BE EQUAL TO U.S. NOVOPLY.
7. VOLATILE ORGANIC COMPOUND (V.O.C.) LEVELS IN THE ADHESIVES AND GLUES USED SHALL NOT EXCEED THE V.O.C. LIMITS SET FORTH IN THE CURRENT EDITION OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) RULE 1168.

DIVISION 7: THERMAL AND MOISTURE PROTECTION

A. VAPOR BARRIERS
THE MATERIALS AND INSTALLATION OF THE VAPOR BARRIER SHALL PROVIDE FOR A COMPLETE AND CONTINUOUS LOW PERMEANCE MEMBRANE SYSTEM FOR USE UNDER CONCRETE SLABS.
1. MATERIAL SHALL BE EQUAL TO STEGO WRAP VAPOR BARRIER (15 MIL) BY STEGO INDUSTRIES, LLC. OR AN APPROVED EQUAL.
2. PREPARATION:
   a. LEVEL AND COMPACT BASE MATERIAL
3. PERFORMANCE:
   a. PERMEANCE: EQUAL TO OR LESS THAN 0.01 PERMS (GRAINS/(FT2 · HR · INHG)) AS TESTED IN ACCORDANCE WITH ASTM E 1745 SECTION 7.1.
   b. THICKNESS: 15 MILS MINIMUM
   c. STRENGTH: ASTM E 1745 CLASS A.
4. INSTALLATION:
   a. INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM E1643 AND THE MANUFACTURER'S RECOMMENDATIONS.
   b. PROVIDE CONTINUOUS UNBROKEN AND PUNCTURE FREE MEMBRANE FROM EDGE OF SLAB TO EDGE OF SLAB.
   c. EXTEND MEMBRANE TO THE SLAB PERIMETER AND PROVIDE A CONTINUOUS SEAL TO THE FOUNDATION WALL, GRADE BEAM, OR SLAB ITSELF.
   d. OVERLAP SEAMS 6" AND TAPE ALL JOINTS AND SEAMS WITH MANUFACTURER'S TAPE.
   e. SEAL ALL PENETRATIONS AND PIPES PER MANUFACTURER'S INSTRUCTIONS.
5. VAPOR BARRIER ON OUTER FACE OF CMU IN BRICK OR STONE VENEERS IS TO BE FIBERED EMULSION DAMP PROOFING, BRUSH APPLIED.

B. FLASHING/WATERPROOFING
1. THROUGH WALL FLASHING IS TO BE PERM-A-BARRIER TOTAL 40 MIL. THICK BY W.R.GRACE CO. OR APPROVED EQUAL.
2. FLUID APPLIED MEMBRANE FLASHING TO BE FASTFLASH LIQUID FLASHING MEMBRANE BY PROSOCO OR APPROVED EQUAL.
3. PROVIDE CAULKING AND SEALING AT ALL EXT. DOOR AND WINDOWS. PROVIDE THRESHOLDS AND WEATHER STRIPPING AT ALL EXT. DOORS. ALL OTHER WATERPROOFING IS BY THE G.C.

C. INSULATION
1. THERMAL WALL INSULATION
   a. CERTAIN STUD WALLS SHALL HAVE 3½" THICK FIBERGLASS BATT INSULATION WHERE SHOWN ON THE FLOOR PLAN.
   b. EXTERIOR FURRED MASONRY WALLS SHALL HAVE ¾" THICK RIGID INSULATION BETWEEN PRESSURE-TREATED ONE (1) BY TWO (2) FURRING STRIPS @ 16" O.C. OR AS SHOWN ON DRAWINGS.
2. SOUNDPROOF ACOUSTICAL INSULATION:
   a. MINERAL WOOL INSULATION 80 BY ROCKWOOL OR APPROVED EQUAL.

D. ROOFING
1. SELF-ADHERED UNDERLAYMENT (A.K.A. MODIFIED PEEL AND STICK BASE SHEET) SHALL BE "POLYGLASS TU PLUS" OR APPROVED EQUAL. APPLICATION AND INSTALLATION IS TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. SHINGLE ROOF: SHINGLES ARE TO BE 'GAF TIMBERLINE ULTRA' OR APPROVED EQUAL. INSTALLATIONS IS TO BE IN ACCORDANCE W/ THE MANUFACTURER'S RECOMMENDATION, OVER MODIFIED PEEL AND STICK BASE SHEET.

DIVISION 8: DOORS, WINDOWS AND HARDWARE
SEE DRAWINGS FOR DOORS, WINDOWS AND HARDWARE

DIVISION 9: FINISHES

A. GYPSUM WALLBOARD, PLASTER AND STUCCO
1. GYPSUM WALLBOARD IS TO BE "SHEETROCK BRAND BOARD" BY UNITED STATES GYPSUM CO. OR APPROVED EQUAL. THICKNESS OF BOARD AND AREAS THAT ARE TO BE FIRE RATED WILL BE AS SHOWN ON DRAWINGS. ALL SCREWS, SPACKLE, TAPE, ETC. WILL BE AS RECOMMENDED BY THE WALLBOARD MFGR.
2. PLASTER LATH IS TO BE EXPANDED METAL (DIAMOND) LATH WIRED TO ¾" AND 1½" FURRING CHANNELS. SUSPENDED METAL LATH SHALL BE ⅜" RIB LATH. ALL SUSPENSION AND ASSEMBLY IS TO BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. ALL PLASTER (GYPSUM OR CEMENT) IS TO BE BY UNITED STATES GYPSUM COMPANY OR APPROVED EQUAL. MATERIALS AND MIXTURE ARE TO BE AS DIRECTED BY THE MANUFACTURER.
4. STUCCO IS TO BE MIXED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. IT IS TO BE APPLIED IN MULTIPLE COATINGS. FINISHED INSTALLATIONS ARE TO BE ½" OR ¾" THICK. FINISHED SURFACE DESIGN IS TO BE SELECTED BY ARCHITECT/OWNER. SUBSTRATE IS TO BE CONCRETE, CONCRETE MASONRY UNITS OR EXPANDED METAL LATH OVER 30# BUILDING FELT OVER PLYWOOD SHEATHING. FOR SUSPENDED APPLICATIONS, USE SYSTEM OUTLINED IN ITEM 3 ABOVE. ALL CORNER MOLDS, J-MOLDS, EXPANSION JOINTS, ETC. ARE TO BE BY "PLASTIC COMPONENTS" OR APPROVED EQUAL.
5. ORNAMENTATION ON STUCCO IS TO BE E.P.S. 1.5 # C.F. FOAM WITH A 80 MIL. URETHANE HARD COAT. ATTACHMENT ADHESIVE MUST BE COMPATIBLE WITH E.P.S. FOAM. ALWAYS CAULK TOP AND ENDS BUT DO NOT CAULK BOTTOM OF ALL APPLICATIONS.

B. CERAMIC TILE
1. CERAMIC TILE IS TO BE A FACTORY GLAZED CERAMIC UNIT OF STANDARD GRADE BY DALTILE CORPORATION OR APPROVED EQUAL. SIZES, FINISHES AND COLORS ARE TO BE SELECTED BY THE ARCHITECT. TILE IS TO BE THINSET OR CONVENTIONAL MORTAR METHOD. SEE DRAWINGS FOR METHOD OF INSTALLATION.
2. ALL SELECTIONS OF GROUT AND METHOD OF INSTALLATION WILL BE IN ACCORDANCE WITH THE TILE MANUFACTURER'S RECOMMENDATIONS. MATCHING GRID. (24"X48") WHERE SHOWN ON PLANS.
3. SCHLUTER FINISHING AND EDGE PROTECTION TRIMS ARE TO BE USED ON ALL CORNERS AND EXPOSED TILE EDGES AND INSTALLED AS PER MFGR'S RECOMMENDATIONS. NO BARE OR EXPOSED TILE EDGE IS ACCEPTABLE UNLESS NOTED OTHERWISE OR APPROVED BY OWNER/ARCHITECT.

C. FLOOR FINISHES
1. LUXURY VINYL TILE (LVT) SHALL BE 12"X12" TILES, COLOR AND STYLE AS SELECTED BY ARCHITECT/OWNER AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
2. CARPETING TO BE GLUE DOWN 26 OUNCE LOOP PILE, COLOR AND STYLE AS SELECTED BY ARCHITECT/OWNER, WITH TEN (10) YEAR COLOR WARRANTY AND TEN (10) YEAR WEAR WARRANTY, INSTALLATION TO BE PER MANUFACTURERS RECOMMENDATIONS.
3. VOLATILE ORGANIC COMPOUND (V.O.C.) LEVELS IN ADHESIVES SHALL NOT EXCEED THE V.O.C. LIMITS SET FORTH IN THE CURRENT EDITION OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) RULE 1168.
4. NON-SKID TREATMENT ON EXT. WALKWAYS, BALCONIES AND PRE-CAST STAIRS.

D. WALL FINISHES
1. VINYL WALL COVERINGS ARE TO BE SELECTED BY OWNER.
2. NO VINYL WALL COVERING SHALL BE APPLIED TO INTERIOR FACE OF EXTERIOR WALLS.
3. DRYWALL FINISH AND TEXTURE SHALL BE SMOOTH U.N.O.

F. PAINTING
1. COLORS ARE TO BE SELECTED BY ARCHITECT AND/OR OWNER.
2. PREPARATION OF SUBSTRATE AND METHODS OF INSTALLATION ARE TO BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. BY STARTING WORK, THE PAINTER ACCEPTS THE SURFACES AS READY FOR PAINTING.
4. ALL SURFACES ARE TO BE CLEANED AND PREPARED PRIOR TO THE START OF ANY PAINTING.
5. PRIMING WILL CONSIST OF ONE COAT OF APPROVED PRIMER. ANY SURFACES NOT COMPLETELY COVERED WILL REQUIRE A SECOND COAT OF PRIMER PRIOR TO STARTING ANY FINISH WORK. LIGHTLY SAND BETWEEN COATS.
6. SAND PRIMED SURFACES PRIOR TO INSTALLATION OF FINISH MATERIALS.
7. ITEMS FACTORY/SHOP PRIMED ONLY NEED TOUCH UP WHERE REQUIRED PRIOR TO FINISHING.
8. FINISH COATING WILL CONSIST OF TWO COATS OF SPECIFIED MATERIAL. LIGHTLY SAND BETWEEN COATS.
9. WHERE NATURAL FINISHES ARE SPECIFIED FOR INTERIOR USE, APPLY STAIN WITH A BRUSH OR RAG TO OBTAIN THE CORRECT COLOR AND UNIFORMITY.
10. AFTER STAIN HAS DRIED, APPLY TWO COATS OF SEALER (VARNISH OR POLYURETHANE). SAND BETWEEN COATS WITH FINE STEEL WOOL. TOUCH UP ANY AREAS WHICH ARE NOT COMPLETELY COATED.

DIVISION 10: SPECIALTIES

A. TOILET ACCESSORIES
SEE TOILET ACCESSORY SCHEDULE ON DRAWINGS.

DIVISION 11: EQUIPMENT (NOT APPLICABLE)

DIVISION 12: FURNISHINGS (NOT APPLICABLE)

DIVISION 13: SPECIAL CONSTRUCTION (NOT APPLICABLE)

PROGRESS SET - NOT FOR CONSTRUCTION

MK Architecture, LLC hereby reserves its common law copyright and other property rights in these plans, designs, arrangements and ideas. These ideas, plans and designs are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party without first obtaining the express written permission from MK Architecture, LLC.
Contractors shall verify and be responsible for all dimensions and conditions of the job. MK Architecture, LLC shall be notified in writing of any variations or discrepancies from the dimensions, conditions and specifications shown by these drawings. All construction shall be in accordance with the current Florida Building Code.

No:	REVISIONS
1	-
2	-
3	-
4	-
5	-

CONSTRUCTION DOCUMENTS FOR
HABITAT FOR HUMANITY
4-UNIT TOWNHOUSE
FORT MYERS, FLORIDA
(SEE COVER SHEET FOR FULL BUILDING ADDRESS)

MK Architecture LLC
8200 College Parkway, Suite 101
Fort Myers, Florida 33919
239.482.2121
AR10564 ID6790
www.MK-ARCH.com

ARCHITECTURE

MICHAEL K. SHEELEY
REG. # 0010564
STATE OF FLORIDA
MICHAEL K. SHEELEY
AR0010564
REGISTERED ARCHITECT

JOB:	MK24020
DATE:	2-7-25
DRWN. BY:	SLVB
CAD REF:	SPEC

SHEET
A0.3

C:\USERS\USER\MK ARCHITECTURE DROPBOX\MK DESIGN FILES\ACAD\DWGS\MK ARCH\MK24020-HABITAT TOWNHOUSES-LEE COUNTY\~COMMON\MK24020-A0.3-SPEC.DWG \ February 11, 2025

C:\USERS\USER\MK ARCHITECTURE DROPBOX\MK DESIGN FILES\ACAD\DWGS\MK ARCH\MK24020-HABITAT TOWNHOUSES-LEE COUNTY\~4-UNIT\CONSTRUCTION DOCUMENTS\MK24020-4-A0.4-SITE.DWG \ February 11, 2025

VICINITY PLAN

SCALE: 1/128" = 1'-0"

ARCHITECTURAL SITE PLAN

SCALE: 1/16" = 1'-0"

0 16' 32' 48'

GENERAL NOTES:
THIS SITE PLAN IS FOR ILLUSTRATIVE PURPOSES ONLY. REFER TO CIVIL ENGINEERING DRAWINGS FOR COMPLETE SITE DEVELOPMENT INFORMATION.

PROGRESS SET - NOT FOR CONSTRUCTION

MK Architecture, LLC hereby reserves its common law copyright and other property rights in these plans, designs, arrangements and ideas. These ideas, plans and designs are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party without first obtaining the express written permission from MK Architecture, LLC.
Contractors shall verify and be responsible for all dimensions and conditions of the job. MK Architecture, LLC shall be notified in writing of any variations or discrepancies from the dimensions, conditions and specifications shown by these drawings. All construction shall be in accordance with the current Florida Building Code.

No:	REVISIONS
1	-
2	-
3	-
4	-
5	-

CONSTRUCTION DOCUMENTS FOR
HABITAT FOR HUMANITY
4-UNIT TOWNHOUSE
FORT MYERS, FLORIDA
(SEE COVER SHEET FOR FULL BUILDING ADDRESS)

MK Architecture LLC
8200 College Parkway, Suite 101
Fort Myers, Florida 33919
239.482.2121
AR10564 ID6790
www.MK-ARCH.com

ARCHITECTURE

MICHAEL K. SHEELEY
REG. # 00010564
STATE OF FLORIDA
MICHAEL K. SHEELEY
AR00010564
REGISTERED ARCHITECT

JOB:	MK24020
DATE:	2-7-25
DRWN. BY:	SLVB
CAD REF:	SITE

SHEET
A0.4

OCCUPANT LOAD CHART

				FBC 2020 (TABLE 1004.5)		FFPC (TABLE 7.3.1.2)	
MARK	FUNCTION / SPACE	USE OCCUPANCY	AREA (SF)	OCCUPANT LOAD FACTOR	OCCUPANT LOAD	OCCUPANT LOAD FACTOR	OCCUPANT LOAD
101	UNIT A	RESIDENTIAL	1,586	1 / 200	8	1 / 200	8
102	UNIT A	RESIDENTIAL	1,586	1 / 200	8	1 / 200	8
103	UNIT A	RESIDENTIAL	1,586	1 / 200	8	1 / 200	8
104	UNIT B	RESIDENTIAL	1,586	1 / 200	8	1 / 200	8
TOTAL OCCUPANT LOAD				32		32	
MINIMUM EGRESS WIDTH (OCCUPANT LOAD * 0.2) (IN.)				6.4000		6.4000	

LIGHT-FRAME TRUSS IDENTIFYING SIGN

1. G.C. SHALL PROVIDE A LIGHT-FRAME TRUSS IDENTIFYING SIGN 'MY-SAFETY-SIGN S-8707' OR APPROVED EQUAL, ATTACHED PER MFGR'S SPECIFICATIONS.
2. THE SIGN PROVIDED SHALL MEET THE FOLLOWING CRITERIA:
   A. THE SIGN MUST CONTAIN AN APPROVED BRIGHT RED REFLECTIVE MALTESE CROSS SYMBOL, MEASURING 8X8, W/ THE DESIGNATION LETTER 'R' WITHIN THE CENTER CIRCLE.
   B. THE SIGN MUST BE PERMANENTLY ATTACHED TO THE FACE OF THE STRUCTURE ON A CONTRASTING BACKGROUND.
3. SEE PARTIAL EXT. ELEVATION 'B' ON THIS SHEET FOR MOUNTING LOCATION.

MARKING AND IDENTIFICATION

N.F.P.A. 101 8.3.2.4 - EACH NEW FIRE WALL, FIRE PARTITION, SMOKE BARRIER, SMOKE PARTITION, OR ANY OTHER NEW WALL REQUIRED TO HAVE PROTECTED OPENINGS SHALL BE PERMANENTLY IDENTIFIED W/ SIGNS OR STENCILING ABOVE ANY DECORATIVE CEILING AND IN CONCEALED SPACES W/ THE WORDING 'FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS' OR SIMILAR LANGUAGE. SUCH SIGNS OR STENCILING SHALL BE IN 4" HIGH LETTER, ½" STROKE, AND NOT MORE THAN 15'-0" O.C.

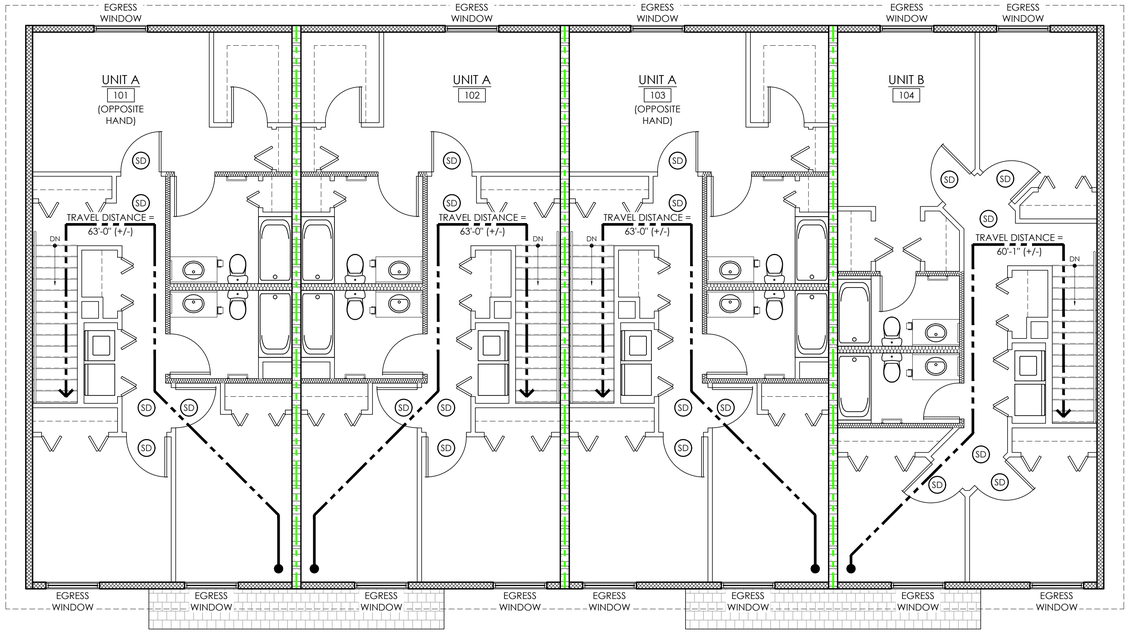
GENERAL NOTES

1. OCCUPANCY REFERS TO THE PURPOSE FOR WHICH A BUILDING OR OTHER STRUCTURE, OR PART THEREOF, IS USED OR INTENDED TO BE USED.
2. THE TYPE OF OCCUPANCY THAT THIS PARTICULAR BUILDING REPRESENTS IS RESIDENTIAL: REGARDLESS OF OCCUPANT LOAD. (NFPA1, FIRE CODE, DEFINITIONS)
3. THE OCCUPANT LOAD OF A BUILDING PERTAINS TO THE TOTAL NUMBER OF PERSONS THAT MIGHT OCCUPY A BUILDING OR PORTION THEREOF AT ANY ONE TIME.
4. THE OVERCROWDING OF A BUILDING MEANS A SITUATION WHERE THE OCCUPANT LOAD EXCEEDS THE EXIT CAPACITY OR THE POSTED OCCUPANT LOAD.
5. THIS BUILDING IS TO MEET THE GENERAL REQUIREMENTS OF CHAPTER 4, "GOALS AND OBJECTIVE", OF (NFPA 1, FIRE CODE)
6. THE MEANS OF EGRESS FACILITIES, CONSTRUCTION TYPE, PROTECTION, AND OTHER SAFEGUARDS IN THE BUILDING SHALL COMPLY WITH THE MOST RESTRICTIVE FIRE AND LIFE SAFETY REQUIREMENTS OF THE OCCUPANCIES INVOLVED.
7. BUILDINGS OR PORTIONS OF BUILDINGS, EXCEPT FOR ROUTINE MAINTENANCE OR REPAIR, SHALL NOT BE OCCUPIED DURING CONSTRUCTION, REPAIR, OR ALTERATION WITHOUT THE APPROVAL OF THE "AUTHORITY HAVING JURISDICTION" IF REQUIRED MEANS OF EGRESS ARE IMPAIRED OR REQUIRED FIRE PROTECTION SYSTEMS ARE OUT OF SERVICE.
8. PER CHAPTER 10, "GENERAL SAFETY REQUIREMENTS", (NFPA 1, FIRE CODE) - EMERGENCY PLANS SHALL BE PROVIDED FOR ASSEMBLY TYPE OCCUPANCIES. PLANS SHALL BE INCLUDE THE PROCEDURES FOR REPORTING OF EMERGENCIES, OCCUPANT AND STAFF RESPONSE TO EMERGENCIES, THE TYPE AND COVERAGE OF BUILDING FIRE PROTECTION SYSTEMS, AND OTHER ITEMS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. THE OWNER OR OPERATOR OF THE BUILDING IS TO ASSURE THAT EMERGENCY PLANS BE REVIEWED AND UPDATED ANNUALLY.
9. AS PART OF A RESIDENTIAL OCCUPANCY FOR ALL CORRIDORS' AND LOBBIES' INTERIOR WALL AND CEILING FINISH MATERIALS COMPLYING WITH SECTION 12.5 OF NFPA 1, FIRE CODE, SHALL BE CLASS "A" OR CLASS "B". ALL OTHER OCCUPIED AREAS SHALL BE CLASS "A" OR "B".
10. AS PART OF A RESIDENTIAL AREA, ALL INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE CLASS "A", CLASS "B", OR CLASS "C" FOR AN OCCUPANT OF 300 PERSONS OR FEWER.
11. NEW INTERIOR FLOOR FINISH IN EXIT ACCESS CORRIDORS AND IN SPACES NOT SEPARATED FROM THEM BY WALLS COMPLYING WITH 38.3.3.3 OF NFPA101, SHALL NOT BE LESS THAN CLASS II.
12. ALL WALKING SURFACES SHALL BE SLIP RESISTANT UNDER FORESEEABLE CONDITIONS. THE WALKING SURFACE OF EACH ELEMENT IN THE MEANS OF EGRESS SHALL BE UNIFORMLY SLIP RESISTANT ALONG THE NATURAL PATH OF TRAVEL. CHAPTER 7, SECTION 7.1.6.4, LIFE SAFETY 101.
13. ALL CONTENTS AND FURNISHINGS SHALL COMPLY WITH CHAPTER 10, SECTION 10.3 "CONTENTS AND FURNISHINGS" OF LIFE SAFETY 101.
14. ALL DEVICES IN CONNECTION WITH THE PREPARATION OF FOOD SHALL BE INSTALLED AND OPERATED TO AVOID HAZARD TO THE SAFETY OF OCCUPANTS. ALL DEVICES IN CONNECTION WITH THE PREPARATION OF FOOD SHALL BE OF AN APPROVED TYPE AND SHALL BE INSTALLED IN AN APPROVED MANNER.
15. THE ELEVATION OF FLOOR SURFACES ON BOTH SIDES OF A DOOR OPENING SHALL NOT VARY BY MORE THAN (½") UNLESS THE BUILDING IS EXISTING.
16. PER FBC 718.4.2 DRAFTSTOPPING IS NOT REQUIRED IN BUILDINGS EQUIPPED THROUGHOUT W/ AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE W/ 903.3.1.2 PROVIDED THAT AUTOMATIC SPRINKLERS ARE INSTALLED IN THE COMBUSTIBLE CONCEALED SPACE WHERE THE DRAFTSTOPPING IS BEING OMITTED.

LIFE SAFETY CODE

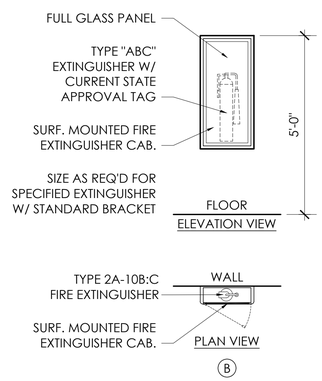
NFPA 101, CHAPTER 24 ONE- AND TWO- FAMILY DWELLINGS

1. IN DWELLINGS OF TWO ROOMS OR MORE, EVERY ROOF SHALL HAVE NOTE LESS THAN ONE PRIMARY MEANS OF ESCAPE AND ONE SECONDARY MEANS OF ESCAPE, PER SEC. 24.2.2.1.1.
   a. THE PRIMARY MEANS OF ESCAPE SHALL BE A DOOR, STAIRWAY, OR RAMP PROVIDING A MEANS OF UNOBSTRUCTED TRAVEL TO THE OUTSIDE OF THE DWELLING UNIT AT STREET OR THE FINISHED GROUND LEVEL, PER SEC. 24.2.2.2.
   b. THE SECONDARY MEANS OF ESCAPE SHALL BE AN OUTSIDE WINDOW THAT PROVIDES AN OPENING OF NOT LESS THAN 5.7 SQUARE FEET. THE WIDTH SHALL NOT BE LESS THAN 20 INCHES, AND THE HEIGHT SHALL NOT BE LESS THAN 24 INCHES. THE BOTTOM OF THE OPENING SHALL BE NOT MORE THAN 44 INCHES ABOVE THE FLOOR. SUCH MEANS OF ESCAPE IS ACCEPTABLE PER SEC. 24.2.2.3.3.
2. DOORS IN THE PATH OF TRAVEL OF A MEANS OF ESCAPE, OTHER THAN BATHROOM DOORS IN ACCORDANCE WITH SEC. 24.2.4.2 AND DOORS SERVICE A ROOM NOT EXCEEDING 70 SQUARE FEET, SHALL BE NOT LESS THAN 28 INCHES WIDE, PER SEC. 24.2.4.1.
3. DOORS SHALL BE NOT LESS THAN 6'-6" IN NOMINAL HEIGHT, PER SEC. 24.2.4.3.
4. FOR INTERIOR STAIRWAYS, MANUAL LIGHTING CONTROLS SHALL BE REACHABLE WITHOUT TRAVERSING ANY STEP OF THE STAIR, PER SEC. 24.2.5.3.
5. THE CLEAR WIDTH OF STAIRS, LANDINGS, AND PORCHES SHALL NOT BE LESS THAN 36 INCHES, PER SEC. 24.2.5.4.
6. THE CLEAR WIDTH OF HALLWAYS SHALL NOT BE LESS THAN 36 INCHES, PER SEC. 24.2.6.1.
7. SMOKE ALARMS OR A SMOKE DETECTION SYSTEM SHALL BE PROVIDED, PER SEC. 24.3.4.
   a. SMOKE ALARMS SHALL BE INSTALLED IN EVERY SLEEPING AREA, OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE SLEEPING ROOMS, AND ON EACH LEVEL OF THE DWELLING UNIT, PER SEC. 24.3.4.1.1.
   b. IN EXISTING ONE- AND TWO- FAMILY DWELLINGS, APPROVED SMOKE ALARMS POWERED BY BATTERIES SHALL BE PERMITTED, PER SEC. 24.3.4.1.3.
7. CARBON MONOXIDE ALARMS OR CARBON MONOXIDE DETECTORS SHALL BE PROVIDED WHERE DWELLING UNITS WITH COMMUNICATING ATTACHED GARAGES EXIST, PER SEC. 24.3.4.2.



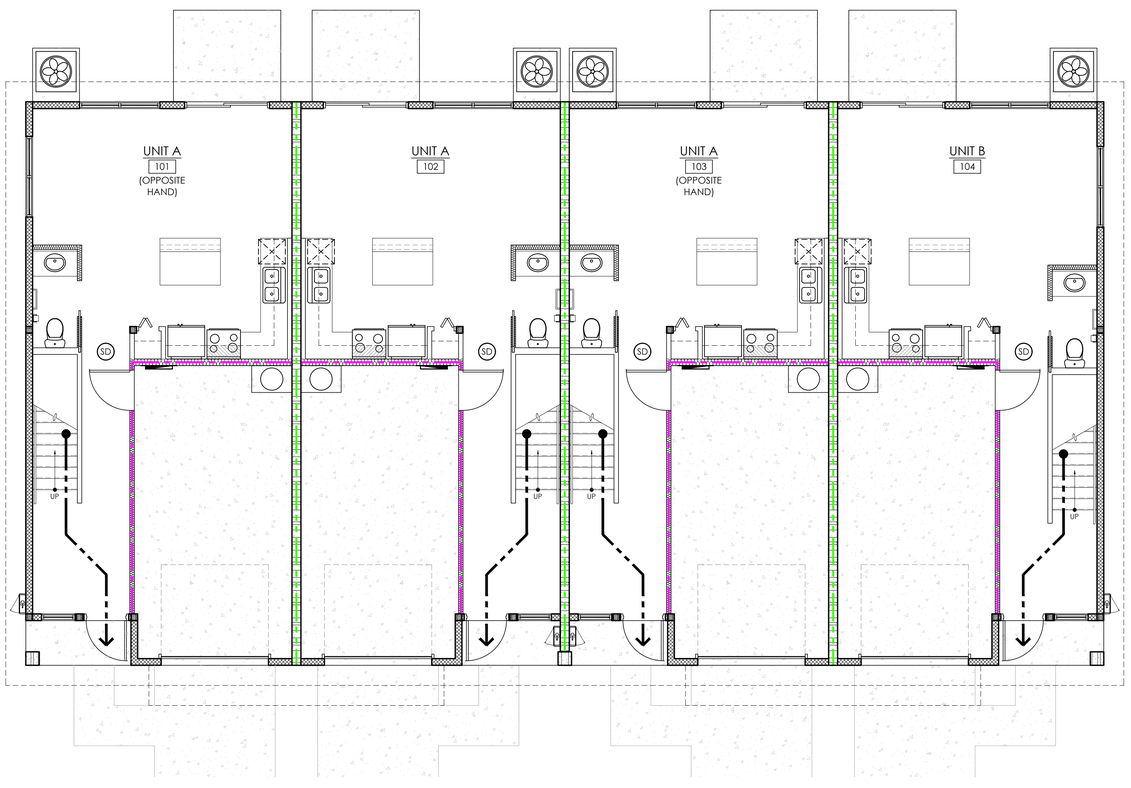
SECOND FLOOR LIFE SAFETY PLAN

SCALE: 3/16" = 1'-0"



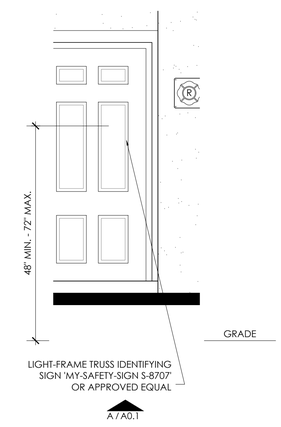
FIRE EXTINGUISHER DETAILS

SCALE: N.T.S.



FIRST FLOOR LIFE SAFETY PLAN

SCALE: 3/16" = 1'-0"



EXTERIOR ELEVATION (PARTIAL)

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

LIFE SAFETY PLAN LEGEND

- SD — COMINATION SMOKE AND CARBON MONOXIDE DETECTOR
- TRAVEL DISTANCE

WALL TYPE LEGEND

- 2 HR. RATED 8" CONCRETE MASONRY WALL
- 6" EXT. WD. STUD WALL W/ INSULATION AND VINYL SIDING OVER ⅝" EXT. GRADE PLYWD. ON EXT. SIDE
- 1-HR. RATED 4" OR 6" WD. STUD WALL
- 4" OR 6" WD. STUD WALL W/ BATT INSULATION
- 4" OR 6" WD. STUD WALL

PROGRESS SET - NOT FOR CONSTRUCTION

No:	REVISIONS
1	-
2	-
3	-
4	-
5	-

CONSTRUCTION DOCUMENTS FOR
HABITAT FOR HUMANITY
4-UNIT TOWNHOUSE
FORT MYERS, FLORIDA
(SEE COVER SHEET FOR FULL BUILDING ADDRESS)

MK Architecture LLC
8200 College Parkway, Suite 101
Fort Myers, Florida 33919
239.482.2121
AR10564 ID6790
www.MK-ARCH.com

ARCHITECTURE

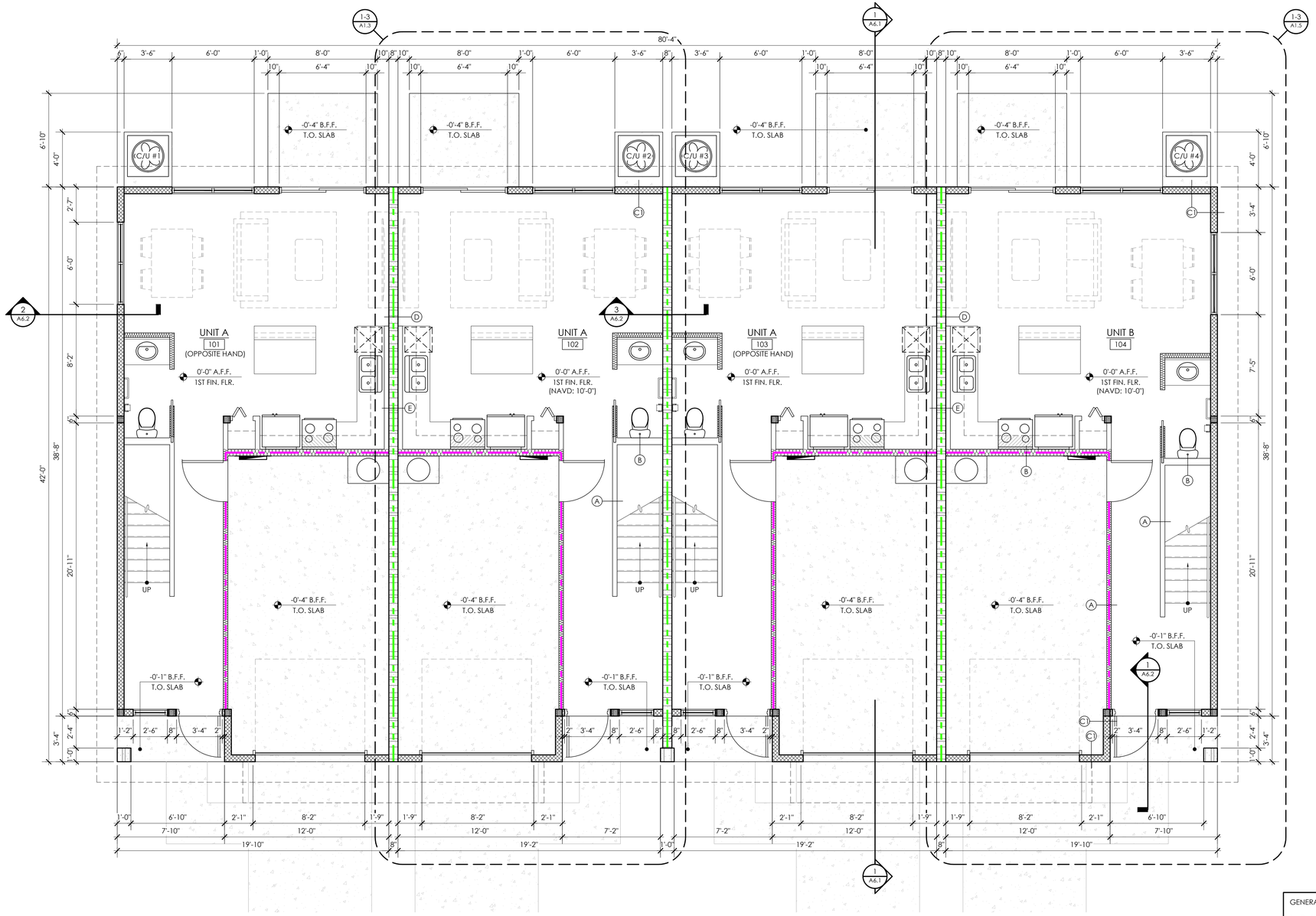
MICHAEL K. SHEELEY
REG. # 0010564
STATE OF FLORIDA
MICHAEL K. SHEELEY
AR0010564
REGISTERED ARCHITECT

JOB:	MK24020
DATE:	2-7-25
DRWN. BY:	SLVB
CAD REF:	LIFE

SHEET
A0.5

MK Architecture, LLC hereby reserves its common law copyright and other property rights in these plans, designs, arrangements and ideas; these ideas, plans and designs are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party without first obtaining the express written permission from MK Architecture, LLC. Contractors shall verify and be responsible for all dimensions and conditions of the job. MK Architecture, LLC shall be notified in writing of any variations or discrepancies from the dimensions, conditions and specifications shown by these drawings. All construction shall be in accordance with the current Florida Building Code.

C:\USERS\USER\MK ARCHITECTURE DROPBOX\MK DESIGN FILES\ACAD\DWGS\MK ARCH\MK24020-HABITAT TOWNHOUSES-LEE COUNTY\~4-UNIT\CONSTRUCTION DOCUMENTS\MK24020-4-A0.5-LS.DWG \ February 11, 2025



FIRST FLOOR OVERALL PLAN

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

0 4' 8' 12'

GENERAL NOTES:

1. DASHED FURNITURE/FIXTURES NOT IN CONTRACT.
2. SEE WALL TYPE DETAILS ON SHEET 'A6.1'

AREA TABULATION

SINGLE TOWNHOUSE	
FIRST FLOOR AREA UNDER A/C	2,140 S.F.
SECOND FLOOR AREA UNDER A/C	3,374 S.F.
GARAGE	1,133 S.F.
COVERED ENTRY	101 S.F.
TOTAL AREA:	6,748 S.F.

WALL TYPE LEGEND

- 2 HR. RATED 8" CONCRETE MASONRY WALL
- 6" EXT. WD. STUD WALL W/ INSULATION AND VINYL SIDING OVER ⅝" EXT. GRADE PLYWD. ON EXT. SIDE
- 1-HR. RATED 4" OR 6" WD. STUD WALL
- 4" OR 6" WD. STUD WALL W/ BATT INSULATION
- 4" OR 6" WD. STUD WALL

PROGRESS SET - NOT FOR CONSTRUCTION

No:	REVISIONS
1	-
2	-
3	-
4	-
5	-

CONSTRUCTION DOCUMENTS FOR
HABITAT FOR HUMANITY
4-UNIT TOWNHOUSE
FORT MYERS, FLORIDA
(SEE COVER SHEET FOR FULL BUILDING ADDRESS)

MK Architecture LLC
8200 College Parkway, Suite 101
Fort Myers, Florida 33919
239.482.2121
AR10564 ID6790
www.MK-ARCH.com

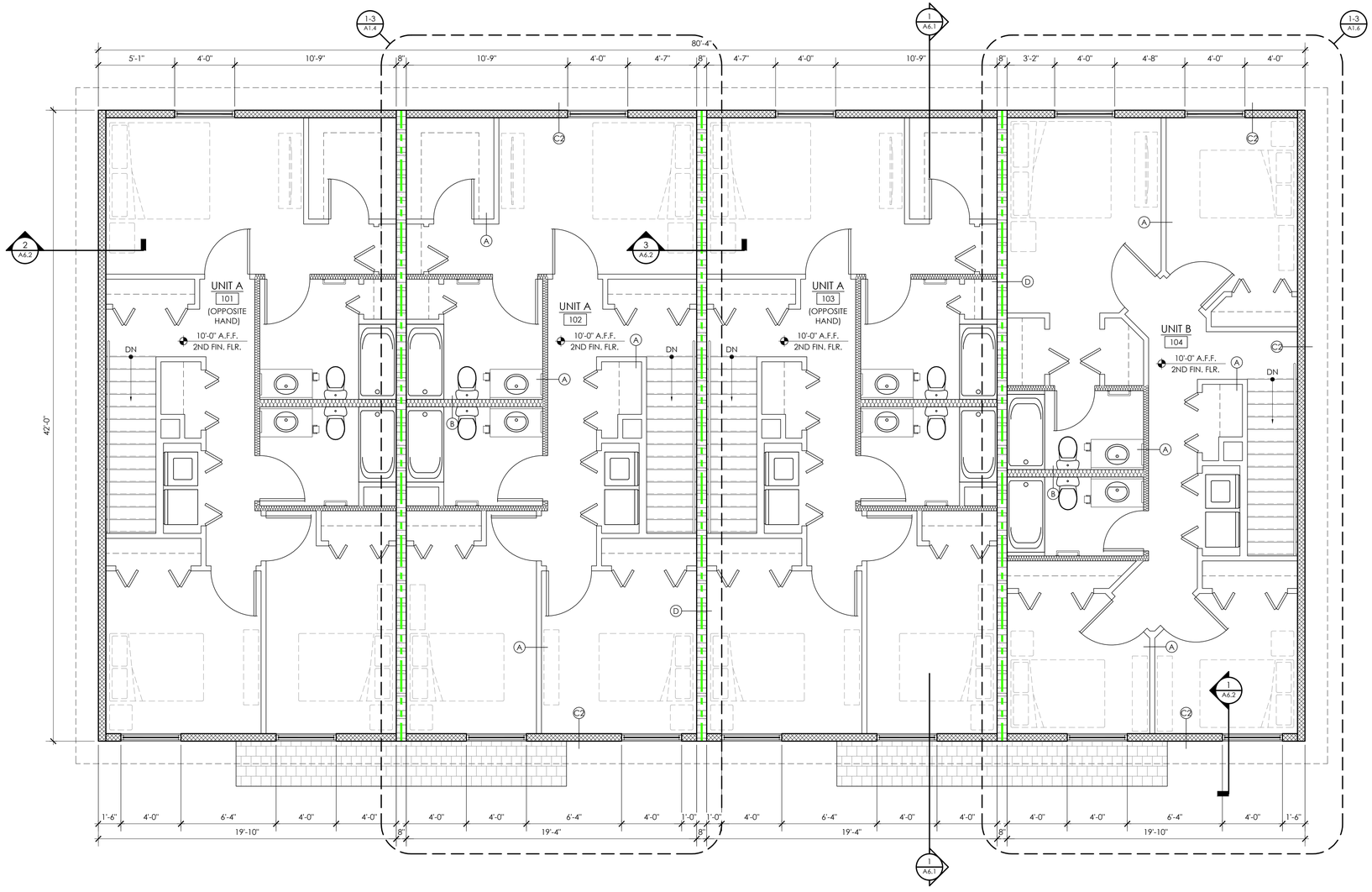
MICHAEL K. SHEELEY
REG. # 0010564
STATE OF FLORIDA
MICHAEL K. SHEELEY
AR0010564
REGISTERED ARCHITECT

JOB:	MK24020
DATE:	2-7-25
DRWN. BY:	SLVB
CAD REF:	FLR

SHEET
A1.1

MK Architecture, LLC hereby reserves its common law copyright and other property rights in these plans, designs, arrangements and ideas. These ideas, plans and designs are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party without first obtaining the express written permission from MK Architecture, LLC. Contractors shall verify and be responsible for all dimensions and conditions of the job. MK Architecture, LLC shall be notified in writing of any variations or discrepancies from the dimensions, conditions and specifications shown by these drawings. All construction shall be in accordance with the current Florida Building Code.

C:\USERS\USER\MK ARCHITECTURE DROPBOX\MK DESIGN FILES\ACAD\DWGS\MK ARCH\MK24020-HABITAT TOWNHOUSES-LEE COUNTY\-4-UNIT\CONSTRUCTION DOCUMENTS\MK24020-4-A1-FLR.DWG \ February 11, 2025



SECOND FLOOR OVERALL PLAN

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

0 4' 8' 12'

GENERAL NOTES:

1. DASHED FURNITURE/FIXTURES NOT IN CONTRACT.
2. SEE WALL TYPE DETAILS ON SHEET 'A6.1'

AREA TABULATION

SINGLE TOWNHOUSE	
FIRST FLOOR AREA UNDER A/C	2,140 S.F.
SECOND FLOOR AREA UNDER A/C	3,374 S.F.
GARAGE	1,133 S.F.
COVERED ENTRY	101 S.F.
TOTAL AREA:	6,748 S.F.

WALL TYPE LEGEND

- 2 HR. RATED 8" CONCRETE MASONRY WALL
- 6" EXT. WD. STUD WALL W/ INSULATION AND VINYL SIDING OVER ⅝" EXT. GRADE PLYWD. ON EXT. SIDE
- 1-HR. RATED 4" OR 6" WD. STUD WALL
- 4" OR 6" WD. STUD WALL W/ BATT INSULATION
- 4" OR 6" WD. STUD WALL

PROGRESS SET - NOT FOR CONSTRUCTION

No:	REVISIONS
1	-
2	-
3	-
4	-
5	-

CONSTRUCTION DOCUMENTS FOR
HABITAT FOR HUMANITY
4-UNIT TOWNHOUSE
FORT MYERS, FLORIDA
(SEE COVER SHEET FOR FULL BUILDING ADDRESS)

MK Architecture LLC
8200 College Parkway, Suite 101
Fort Myers, Florida 33919
239.482.2121
AR10564 ID6790
www.MK-ARCH.com

ARCHITECTURE

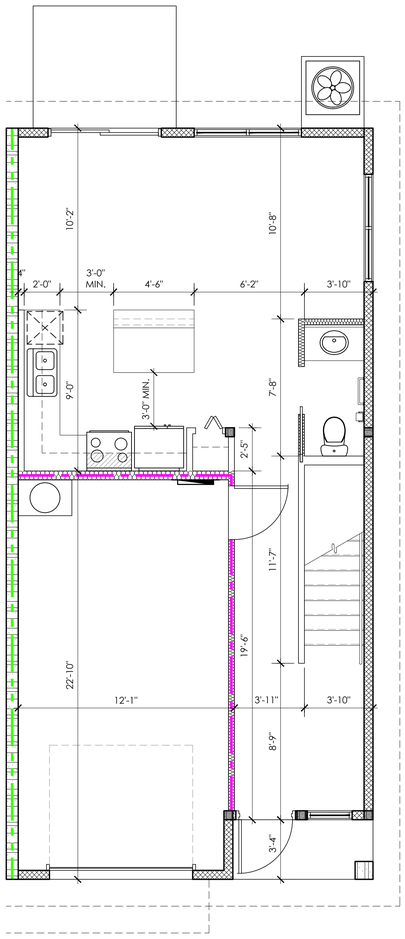
MICHAEL K. SHEELEY
REG. # 0010564
STATE OF FLORIDA
MICHAEL K. SHEELEY
AR0010564
REGISTERED ARCHITECT

JOB:	MK24020
DATE:	2-7-25
DRWN. BY:	SLVB
CAD REF:	FLR

SHEET
A1.2

MK Architecture, LLC hereby reserves its common law copyright and other property rights in these plans, designs, arrangements and ideas. These ideas, plans and designs are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party without first obtaining the express written permission from MK Architecture, LLC.
Contractors shall verify and be responsible for all dimensions and conditions of the job. MK Architecture, LLC shall be notified in writing of any variations or discrepancies from the dimensions, conditions and specifications shown by these drawings. All construction shall be in accordance with the current Florida Building Code.

C:\USERS\USER\MK ARCHITECTURE DROPBOX\MK DESIGN FILES\ACAD\DWGS\MK ARCH\MK24020-HABITAT TOWNHOUSES-LEE COUNTY\~4-UNIT\CONSTRUCTION DOCUMENTS\MK24020-4-A1-FLR.DWG \ February 11, 2025

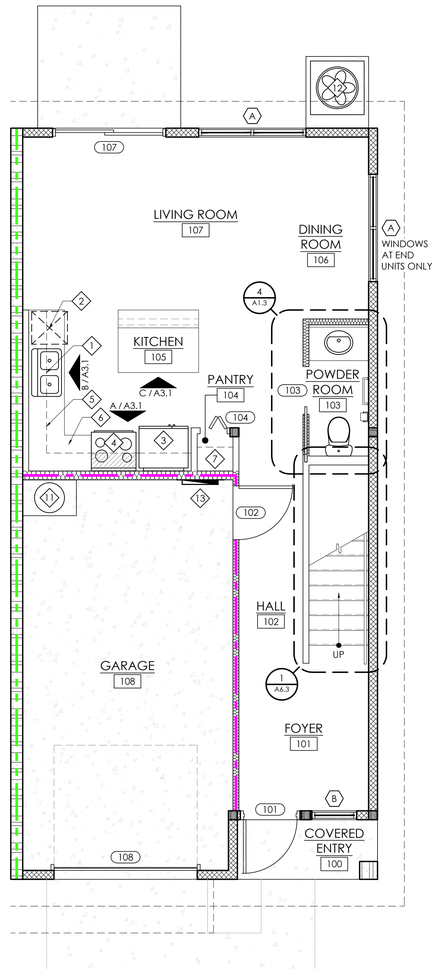


1 A1.3

FIRST FLOOR: "UNIT A" DIMENSIONED PLAN

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

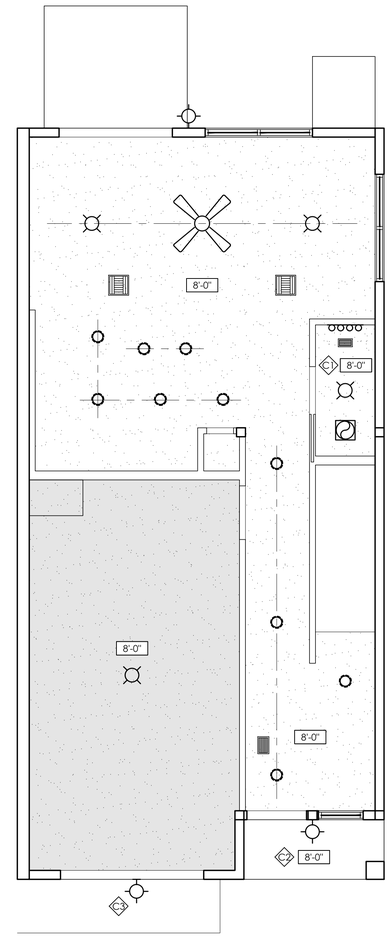
0 4' 8' 12'



2 A1.3

FIRST FLOOR: "UNIT A" NOTED PLAN

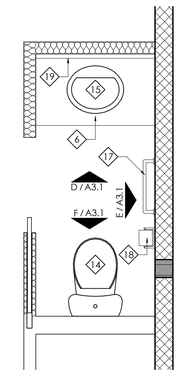
SCALE: 1/4" = 1'-0"



3 A1.3

FIRST FLOOR: "UNIT A" REFLECTED CEILING PLAN

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



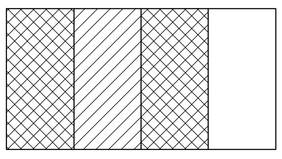
4 A1.3

ENLARGED BATHROOM PLAN

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

"UNIT A" LOCATION

"UNIT A (O.H.)" LOCATION



FIRST FLOOR: "4-UNIT TOWNHOUSE" KEY PLAN

SCALE: N.T.S.

CEILING PLAN KEYNOTES

- C1 MOISTURE RESISTANT (MR) GYPSUM BOARD
- C2 EXTERIOR GYPSUM SOFFIT
- C3 SOLID ALUM. SOFFIT

CEILING PLAN GENERAL NOTES

1. REFER TO ELECTRICAL AND MECHANICAL PLANS FOR CEILING MOUNTED FIXTURES.
2. CEILING HEIGHTS NOTED ON PLAN ARE REFERENCED TO INTERIOR FLOOR STRUCTURE DIRECTLY BELOW THE CEILING AND DO NOT REFLECT THE THICKNESS OF FINISH FLOOR MATERIALS.
3. CEILING IN CONDITIONED SPACE SHALL BE ONE LAYER OF SAG RESISTANT GYPSUM BOARD (PAINTED) ON METAL FURRING @ 16" O.C. OR MECHANICALLY FASTED TO UNDERSIDE OF FLOOR OR ROOF FRAMING.

FLOOR PLAN KEYNOTES

1 STAINLESS STEEL SINK	11 WATER HEATER
2 DISHWASHER	12 CONDENSING UNIT
3 REFRIGERATOR	13 RECESSED ELEC. PANEL
4 FULL-SIZED RANGE	14 WATER CLOSET
5 WALL-MOUNTED CABINETS	15 LAVATORY
6 BASE CABINETS AND COUNTERTOP	16 BATHTUB
7 18" VENITLATED SHELVES	17 TOWEL BAR
8 12" VENTILATED SHELVES	18 TOILET TISSUE DISPENSER
9 WASHER	19 WALL-MOUNTED GLASS MIRROR
10 DRYER	20 RECESSED MEDICINE CABINET

CEILING PLAN LEGEND

X'-X" CEILING HEIGHT A.F.F.	CEILING FAN
GYPSUM BOARD CEILING	RECESSED LIGHT
TYPE "X" GYPSUM BOARD CEILING	VANITY LIGHT
GYPSUM BOARD CEILING	WALL SCONCE
RETURN AIR DIIFFUSER	SURFACE MOUNTED LIGHT
SUPPLY AIR DIFFUSER	EXHAUST FAN

WALL TYPE LEGEND

- 2 HR. RATED 8" CONCRETE MASONRY WALL
- 6" EXT. WD. STUD WALL W/ INSULATION AND VINYL SIDING OVER ⅝" EXT. GRADE PLYWD. ON EXT. SIDE
- 1-HR. RATED 4" OR 6" WD. STUD WALL
- 4" OR 6" WD. STUD WALL W/ BATT INSULATION
- 4" OR 6" WD. STUD WALL

PROGRESS SET - NOT FOR CONSTRUCTION

No:	REVISIONS
1	-
2	-
3	-
4	-
5	-

CONSTRUCTION DOCUMENTS FOR
HABITAT FOR HUMANITY
4-UNIT TOWNHOUSE
FORT MYERS, FLORIDA
(SEE COVER SHEET FOR FULL BUILDING ADDRESS)

MK Architecture LLC
8200 College Parkway, Suite 101
Fort Myers, Florida 33919
239.482.2121
AR10564 ID6790
www.MK-ARCH.com

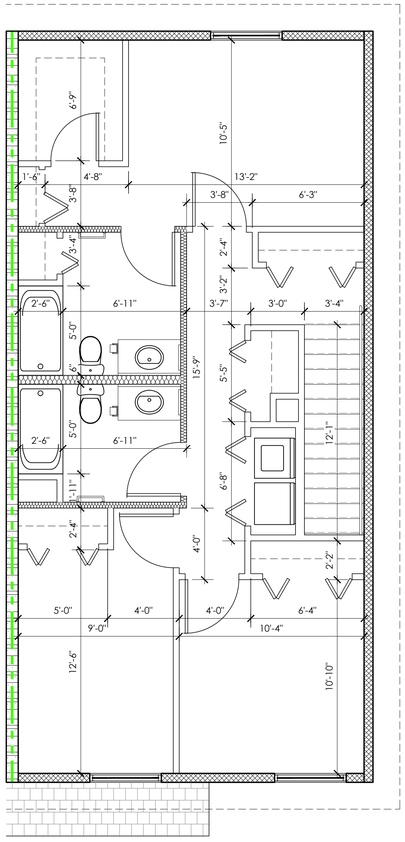
MICHAEL K. SHEELEY
REG. # 0010564
STATE OF FLORIDA
MICHAEL K. SHEELEY
AR0010564
REGISTERED ARCHITECT

JOB:	MK24020
DATE:	2-7-25
DRWN. BY:	SLVB
CAD REF:	FLR

SHEET
A1.3

MK Architecture, LLC hereby reserves its common law copyright and other property rights in these plans, designs, arrangements and ideas. These ideas, plans and designs are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party without first obtaining the express written permission from MK Architecture, LLC. Contractors shall verify and be responsible for all dimensions and conditions of the job. MK Architecture, LLC shall be notified in writing of any variations or discrepancies from the dimensions, conditions and specifications shown by these drawings. All construction shall be in accordance with the current Florida Building Code.

C:\USERS\USER\MK ARCHITECTURE DROPBOX\MK DESIGN FILES\ACAD\DWGS\MK ARCH\MK24020-HABITAT TOWNHOUSES-LEE COUNTY~COMMON\MK24020-A1.3-A1.6-FLR.DWG \ February 11, 2025

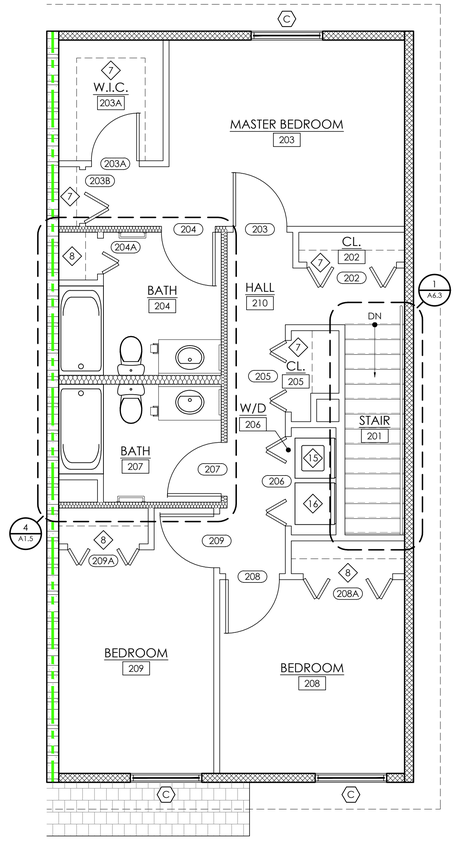


SECOND FLOOR: "UNIT A" DIMENSIONED PLAN

1 / A1.4

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

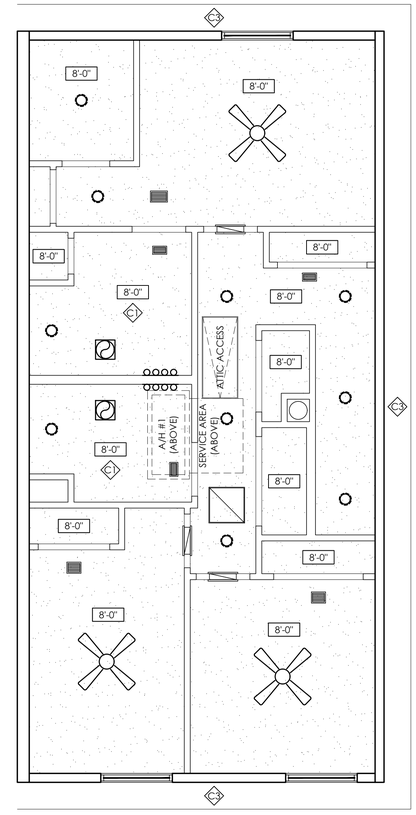
0 4' 8' 12'



SECOND FLOOR: "UNIT A" NOTED PLAN

2 / A1.4

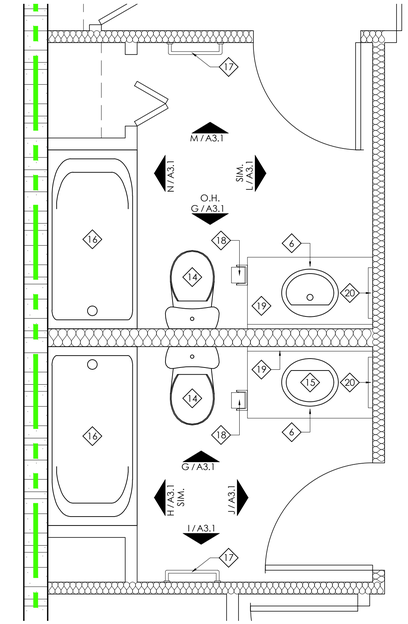
SCALE: 1/4" = 1'-0"



SECOND FLOOR: "UNIT A" REFLECTED CEILING PLAN

3 / A1.4

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



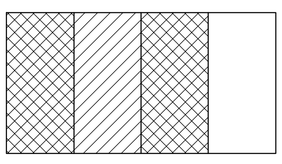
ENLARGED BATHROOM PLAN

4 / A1.4

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

"UNIT A" LOCATION

"UNIT A (O.H.)" LOCATION



SECOND FLOOR: "4-UNIT TOWNHOUSE" KEY PLAN

SCALE: N.T.S.

CEILING PLAN LEGEND

- X'-X" — CEILING HEIGHT A.F.F.
- GYPSUM BOARD CEILING
- TYPE "X" GYPSUM BOARD CEILING
- GYPSUM BOARD CEILING
- RETURN AIR DIFFUSER
- SUPPLY AIR DIFFUSER
- CEILING FAN
- RECESSED LIGHT
- VANITY LIGHT
- WALL SCONCE
- SURFACE MOUNTED LIGHT
- EXHAUST FAN

CEILING PLAN KEYNOTES

- C1 MOISTURE RESISTANT (MR) GYPSUM BOARD
- C2 EXTERIOR GYPSUM SOFFIT
- C3 SOLID ALUM. SOFFIT

CEILING PLAN GENERAL NOTES

1. REFER TO ELECTRICAL AND MECHANICAL PLANS FOR CEILING MOUNTED FIXTURES.
2. CEILING HEIGHTS NOTED ON PLAN ARE REFERENCED TO INTERIOR FLOOR STRUCTURE DIRECTLY BELOW THE CEILING AND DO NOT REFLECT THE THICKNESS OF FINISH FLOOR MATERIALS.
3. CEILING IN CONDITIONED SPACE SHALL BE ONE LAYER OF SAG RESISTANT GYPSUM BOARD (PAINTED) ON METAL FURRING @ 16" O.C. OR MECHANICALLY FASTED TO UNDERSIDE OF FLOOR OR ROOF FRAMING.

FLOOR PLAN KEYNOTES

1 STAINLESS STEEL SINK	11 WATER HEATER
2 DISHWASHER	12 CONDENSING UNIT
3 REFRIGERATOR	13 RECESSED ELEC. PANEL
4 FULL-SIZED RANGE	14 WATER CLOSET
5 WALL-MOUNTED CABINETS	15 LAVATORY
6 BASE CABINETS AND COUNTERTOP	16 BATHTUB
7 18" VENTILATED SHELVES	17 TOWEL BAR
8 12" VENTILATED SHELVES	18 TOILET TISSUE DISPENSER
9 WASHER	19 WALL-MOUNTED GLASS MIRROR
10 DRYER	20 RECESSED MEDICINE CABINET

WALL TYPE LEGEND

- 2 HR. RATED 8" CONCRETE MASONRY WALL
- 6" EXT. WD. STUD WALL W/ INSULATION AND VINYL SIDING OVER ⅝" EXT. GRADE PLYWD. ON EXT. SIDE
- 1-HR. RATED 4" OR 6" WD. STUD WALL
- 4" OR 6" WD. STUD WALL W/ BATT INSULATION
- 4" OR 6" WD. STUD WALL

PROGRESS SET - NOT FOR CONSTRUCTION

No:	REVISIONS
1	-
2	-
3	-
4	-
5	-

CONSTRUCTION DOCUMENTS FOR
HABITAT FOR HUMANITY
4-UNIT TOWNHOUSE
FORT MYERS, FLORIDA
(SEE COVER SHEET FOR FULL BUILDING ADDRESS)

MK Architecture LLC
8200 College Parkway, Suite 101
Fort Myers, Florida 33919
239.482.2121
AR10564 ID6790
www.MK-ARCH.com

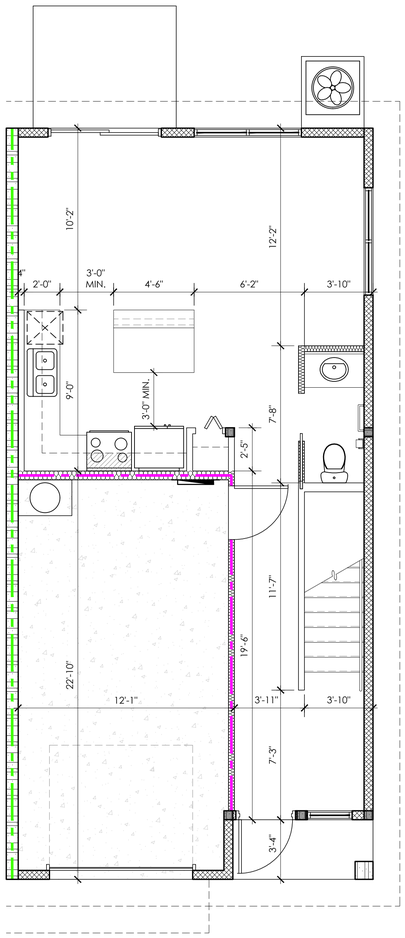
MICHAEL K. SHEELEY
REG. # 0010564
STATE OF FLORIDA
MICHAEL K. SHEELEY
AR0010564
REGISTERED ARCHITECT

JOB:	MK24020
DATE:	2-7-25
DRWN. BY:	SLVB
CAD REF:	FLR

SHEET
A1.4

MK Architecture, LLC hereby reserves its common law copyright and other property rights in these plans, designs, arrangements and ideas. These ideas, plans and designs are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party without first obtaining the express written permission from MK Architecture, LLC. Contractors shall verify and be responsible for all dimensions and conditions of the job. MK Architecture, LLC shall be notified in writing of any variations or discrepancies from the dimensions, conditions and specifications shown by these drawings. All construction shall be in accordance with the current Florida Building Code.

C:\USERS\USER\MK ARCHITECTURE DROPBOX\MK DESIGN FILES\ACAD\DWGS\MK ARCH\MK24020-HABITAT TOWNHOUSES-LEE COUNTY---COMMON\MK24020-A1.3-A1.6-FLR.DWG \ February 11, 2025

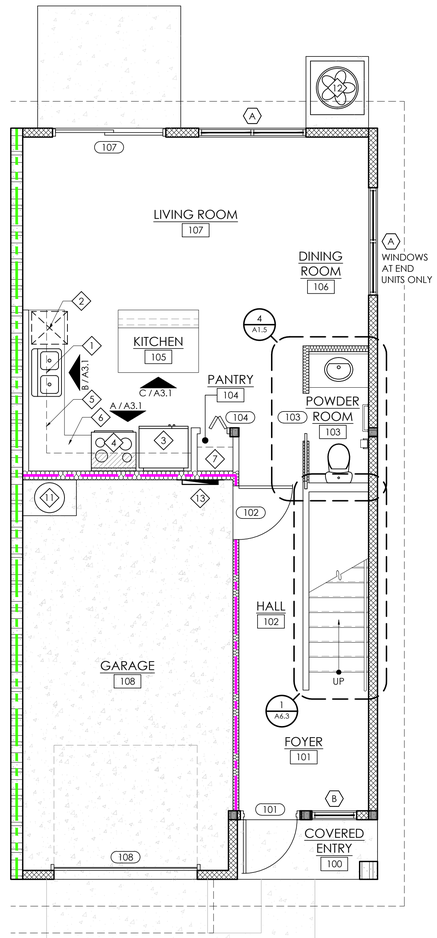


FIRST FLOOR: "UNIT B" DIMENSIONED PLAN

1 / A1.5

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

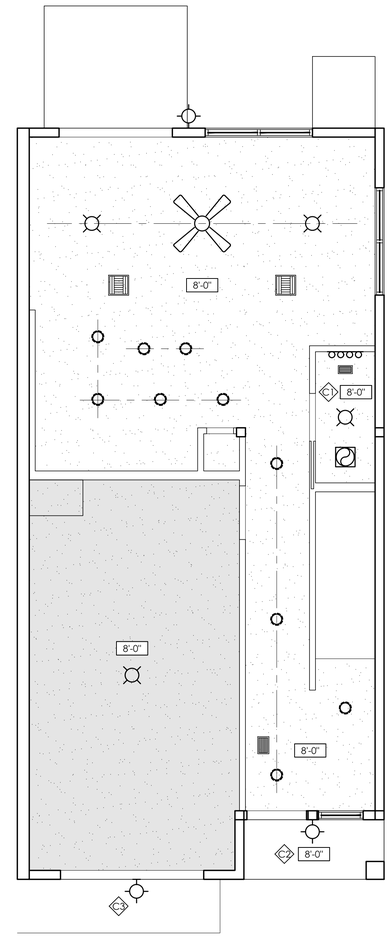
0 4' 8' 12'



FIRST FLOOR: "UNIT B" NOTED PLAN

2 / A1.5

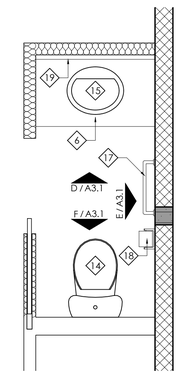
SCALE: 1/4" = 1'-0"



FIRST FLOOR: "UNIT B" REFLECTED CEILING PLAN

3 / A1.5

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

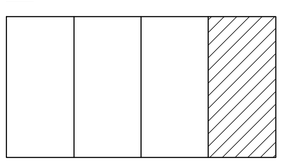


ENLARGED BATHROOM PLAN

4 / A1.5

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

"UNIT B" LOCATION



FIRST FLOOR: "4-UNIT TOWNHOUSE" KEY PLAN

SCALE: N.T.S.

CEILING PLAN LEGEND

X'-X"	CEILING HEIGHT A.F.F.
	GYPSUM BOARD CEILING
	TYPE "X" GYPSUM BOARD CEILING
	GYPSUM BOARD CEILING
	RETURN AIR DIIFFUSER
	SUPPLY AIR DIFFUSER
	CEILING FAN
	RECESSED LIGHT
	VANITY LIGHT
	WALL SCONCE
	SURFACE MOUNTED LIGHT
	EXHAUST FAN

CEILING PLAN KEYNOTES

1. MOISTURE RESISTANT (MR) GYPSUM BOARD
2. EXTERIOR GYPSUM SOFFIT
3. SOLID ALUM. SOFFIT

CEILING PLAN GENERAL NOTES

1. REFER TO ELECTRICAL AND MECHANICAL PLANS FOR CEILING MOUNTED FIXTURES.
2. CEILING HEIGHTS NOTED ON PLAN ARE REFERENCED TO INTERIOR FLOOR STRUCTURE DIRECTLY BELOW THE CEILING AND DO NOT REFLECT THE THICKNESS OF FINISH FLOOR MATERIALS.
3. CEILING IN CONDITIONED SPACE SHALL BE ONE LAYER OF SAG RESISTANT GYPSUM BOARD (PAINTED) ON METAL FURRING @ 16" O.C. OR MECHANICALLY FASTED TO UNDERSIDE OF FLOOR OR ROOF FRAMING.

FLOOR PLAN KEYNOTES

1 STAINLESS STEEL SINK	11 WATER HEATER
2 DISHWASHER	12 CONDENSING UNIT
3 REFRIGERATOR	13 RECESSED ELEC. PANEL
4 FULL-SIZED RANGE	14 WATER CLOSET
5 WALL-MOUNTED CABINETS	15 LAVATORY
6 BASE CABINETS AND COUNTERTOP	16 BATHTUB
7 18" VENITLATED SHELVES	17 TOWEL BAR
8 12" VENTILATED SHELVES	18 TOILET TISSUE DISPENSER
9 WASHER	19 WALL-MOUNTED GLASS MIRROR
10 DRYER	20 RECESSED MEDICINE CABINET

WALL TYPE LEGEND

- 2 HR. RATED 8" CONCRETE MASONRY WALL
- 6" EXT. WD. STUD WALL W/ INSULATION AND VINYL SIDING OVER ⅝" EXT. GRADE PLYWD. ON EXT. SIDE
- 1-HR. RATED 4" OR 6" WD. STUD WALL
- 4" OR 6" WD. STUD WALL W/ BATT INSULATION
- 4" OR 6" WD. STUD WALL

PROGRESS SET - NOT FOR CONSTRUCTION

No:	REVISIONS
1	-
2	-
3	-
4	-
5	-

CONSTRUCTION DOCUMENTS FOR
HABITAT FOR HUMANITY
4-UNIT TOWNHOUSE
FORT MYERS, FLORIDA
(SEE COVER SHEET FOR FULL BUILDING ADDRESS)

MK Architecture LLC
8200 College Parkway, Suite 101
Fort Myers, Florida 33919
239.482.2121
AR10564 ID6790
www.MK-ARCH.com

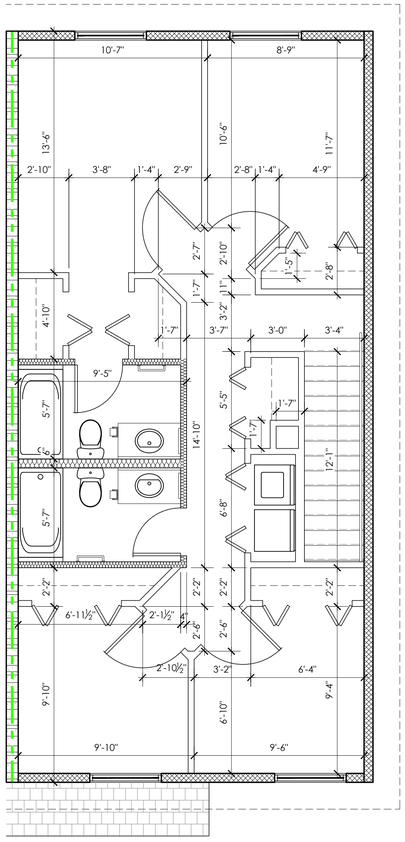
MICHAEL K. SHEELEY
REG. # 0010564
STATE OF FLORIDA
MICHAEL K. SHEELEY
AR0010564
REGISTERED ARCHITECT

JOB:	MK24020
DATE:	2-7-25
DRWN. BY:	SLVB
CAD REF:	FLR

SHEET
A1.5

MK Architecture LLC hereby reserves its common law copyright and other property rights in these plans, designs, arrangements and ideas. These ideas, plans and designs are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party without first obtaining the express written permission from MK Architecture, LLC. Contractors shall verify and be responsible for all dimensions and conditions of the job. MK Architecture, LLC shall be notified in writing of any variations or discrepancies from the dimensions, conditions and specifications shown by these drawings. All construction shall be in accordance with the current Florida Building Code.

C:\USERS\USER\MK ARCHITECTURE DROPBOX\MK DESIGN FILES\ACAD\DWGS\MK ARCH\MK24020-HABITAT TOWNHOUSES-LEE COUNTY~COMMON\MK24020-A1.3-A1.6-FLR.DWG \ February 11, 2025

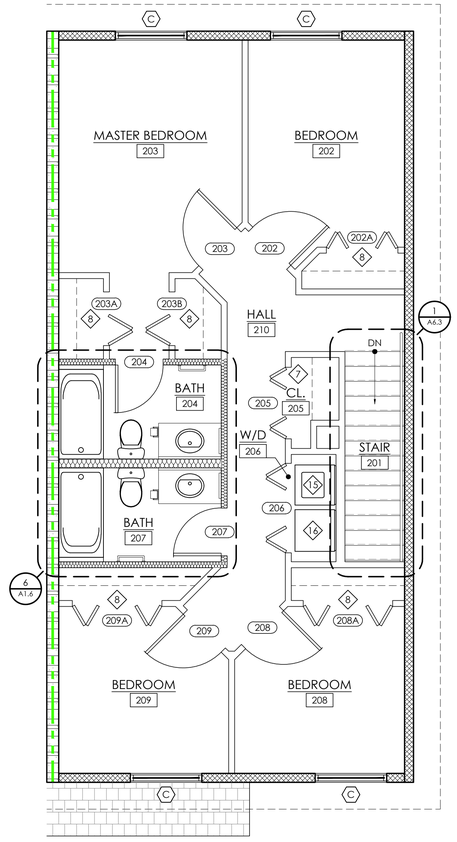


SECOND FLOOR: "UNIT B" DIMENSIONED PLAN

1 / A1.6

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

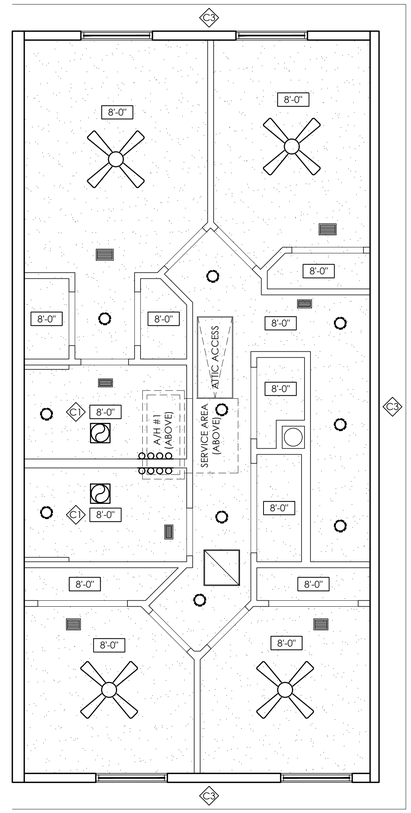
0 4' 8' 12'



SECOND FLOOR: "UNIT B" NOTED PLAN

2 / A1.6

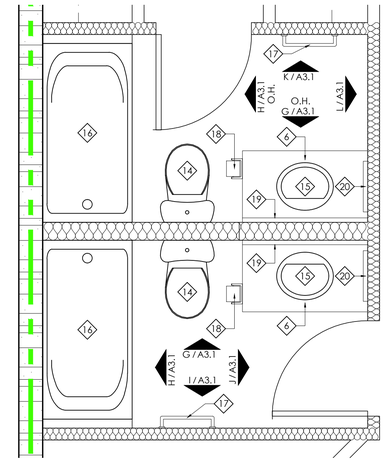
SCALE: 1/4" = 1'-0"



SECOND FLOOR: "UNIT B" REFLECTED CEILING PLAN

3 / A1.6

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

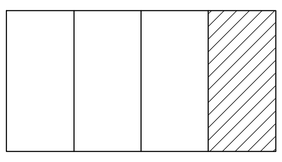


ENLARGED BATHROOM PLAN

4 / A1.6

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

"UNIT B" LOCATION



SECOND FLOOR: "4-UNIT TOWNHOUSE" KEY PLAN

SCALE: N.T.S.

CEILING PLAN LEGEND

- X'-X" — CEILING HEIGHT A.F.F.
- GYPSUM BOARD CEILING
- TYPE "X" GYPSUM BOARD CEILING
- GYPSUM BOARD CEILING
- RETURN AIR DIIFFUSER
- SUPPLY AIR DIFFUSER
- CEILING FAN
- RECESSED LIGHT
- VANITY LIGHT
- WALL SCONCE
- SURFACE MOUNTED LIGHT
- EXHAUST FAN

CEILING PLAN KEYNOTES

- C1 MOISTURE RESISTANT (MR) GYPSUM BOARD
- C2 EXTERIOR GYPSUM SOFFIT
- C3 SOLID ALUM. SOFFIT

CEILING PLAN GENERAL NOTES

1. REFER TO ELECTRICAL AND MECHANICAL PLANS FOR CEILING MOUNTED FIXTURES.
2. CEILING HEIGHTS NOTED ON PLAN ARE REFERENCED TO INTERIOR FLOOR STRUCTURE DIRECTLY BELOW THE CEILING AND DO NOT REFLECT THE THICKNESS OF FINISH FLOOR MATERIALS.
3. CEILING IN CONDITIONED SPACE SHALL BE ONE LAYER OF SAG RESISTANT GYPSUM BOARD (PAINTED) ON METAL FURRING @ 16" O.C. OR MECHANICALLY FASTED TO UNDERSIDE OF FLOOR OR ROOF FRAMING.

FLOOR PLAN KEYNOTES

1. STAINLESS STEEL SINK
2. DISHWASHER
3. REFRIGERATOR
4. FULL-SIZED RANGE
5. WALL-MOUNTED CABINETS
6. BASE CABINETS AND COUNTERTOP
7. 18" VENITLATED SHELVES
8. 12" VENTILATED SHELVES
9. WASHER
10. DRYER
11. WATER HEATER
12. CONDENSING UNIT
13. RECESSED ELEC. PANEL
14. WATER CLOSET
15. LAVATORY
16. BATHTUB
17. TOWEL BAR
18. TOILET TISSUE DISPENSER
19. WALL-MOUNTED GLASS MIRROR
20. RECESSED MEDICINE CABINET

WALL TYPE LEGEND

- 2 HR. RATED 8" CONCRETE MASONRY WALL
- 6" EXT. WD. STUD WALL W/ INSULATION AND VINYL SIDING OVER ⅝" EXT. GRADE PLYWD. ON EXT. SIDE
- 1-HR. RATED 4" OR 6" WD. STUD WALL
- 4" OR 6" WD. STUD WALL W/ BATT INSULATION
- 4" OR 6" WD. STUD WALL

PROGRESS SET - NOT FOR CONSTRUCTION

No:	REVISIONS
1	-
2	-
3	-
4	-
5	-

CONSTRUCTION DOCUMENTS FOR
HABITAT FOR HUMANITY
4-UNIT TOWNHOUSE
FORT MYERS, FLORIDA
(SEE COVER SHEET FOR FULL BUILDING ADDRESS)

MK Architecture LLC
8200 College Parkway, Suite 101
Fort Myers, Florida 33919
239.482.2121
AR10564 ID6790
www.MK-ARCH.com

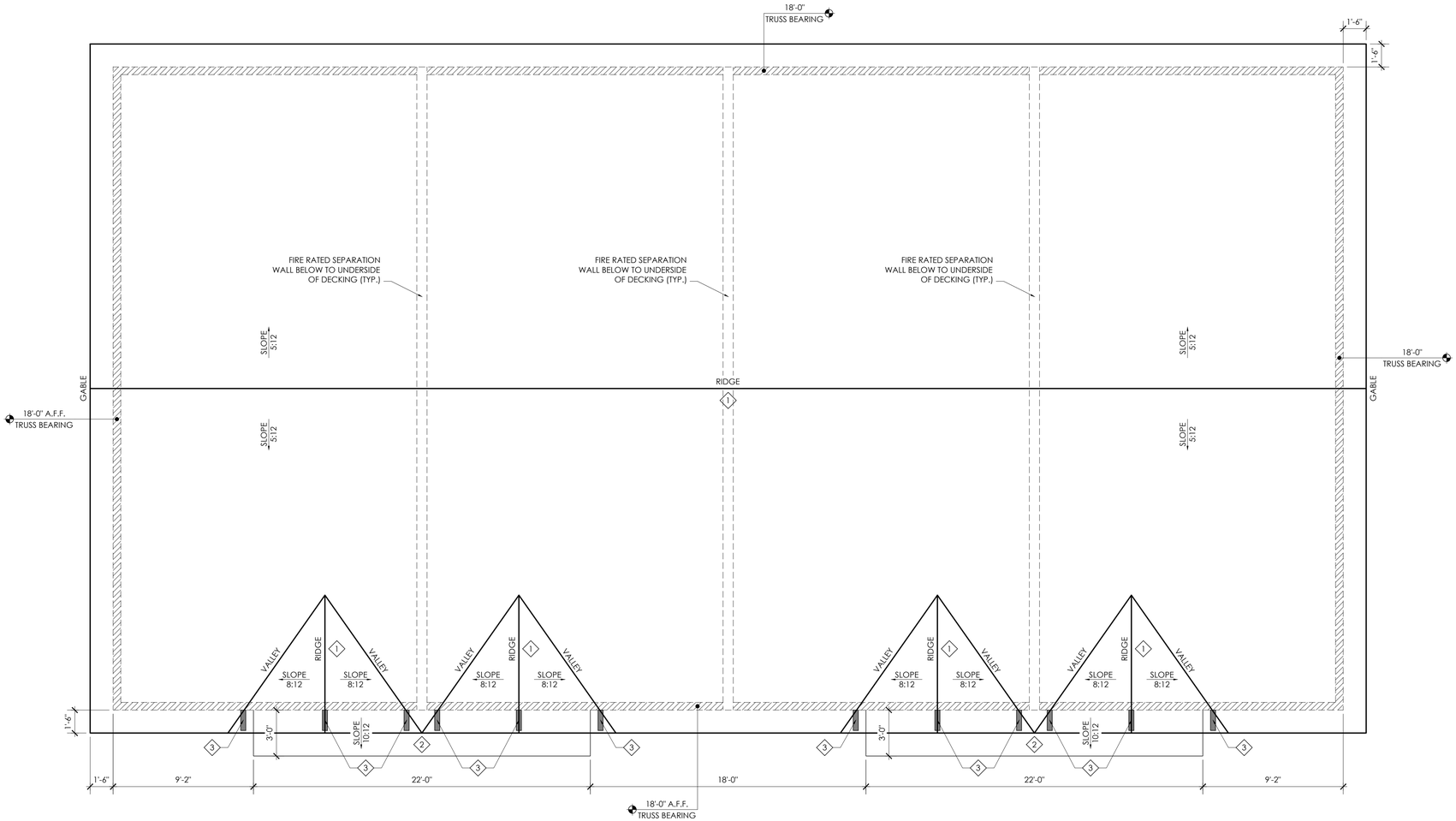
MICHAEL K. SHEELEY
REG. # 0010564
STATE OF FLORIDA
MICHAEL K. SHEELEY
AR0010564
REGISTERED ARCHITECT

JOB:	MK24020
DATE:	2-7-25
DRWN. BY:	SLVB
CAD REF:	FLR

SHEET
A1.6

MK Architecture, LLC hereby reserves its common law copyright and other property rights in these plans, designs, arrangements and ideas. These ideas, plans and designs are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party without first obtaining the express written permission from MK Architecture, LLC. Contractors shall verify and be responsible for all dimensions and conditions of the job. MK Architecture, LLC shall be notified in writing of any variations or discrepancies from the dimensions, conditions and specifications shown by these drawings. All construction shall be in accordance with the current Florida Building Code.

C:\USERS\USER\MK ARCHITECTURE DROPBOX\MK DESIGN FILES\ACAD\DWGS\MK ARCH\MK24020-HABITAT TOWNHOUSES-LEE COUNTY\--COMMON\MK24020-A1.3-A1.6-FLR.DWG \ February 11, 2025



ROOF PLAN

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

0 4' 8' 12'

ROOF PLAN GENERAL NOTES

1. PRE-ENG. ROOF TRUSSES @ 24" O.C.
2. COORDINATION OF CONSTRUCTION INCLUDING VERIFICATION OF DIMENSIONS AND FIELD CONDITIONS, IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN FIRM PRIOR TO CONSTRUCTION.
3. ROOF PLAN FOR DESIGN PURPOSES ONLY. TRUSS MFGR. TO SUBMIT ENGINEERED TRUSS DRAWINGS FOR APPROVAL.
4. ALL BEARINGS TAKEN FROM FIN. FLR. ELEV. 0'-0".

ROOF PLAN KEYNOTES

1. PITCHED ROOF W/ FIBERGLASS SHINGLES
2. PITCHED SHED ROOF W/ FIBERGLASS SHINGLES
3. PRE-FAB. COMPOSITE TRIM BRACKET ATTACHED PER MFGR'S SPECIFICATIONS

LEGEND

8" CONCRETE MASONRY WALL BELOW

2x6 WOOD FRAMING BELOW

PROGRESS SET - NOT FOR CONSTRUCTION

No:	REVISIONS
1	-
2	-
3	-
4	-
5	-

CONSTRUCTION DOCUMENTS FOR
HABITAT FOR HUMANITY
4-UNIT TOWNHOUSE
FORT MYERS, FLORIDA
(SEE COVER SHEET FOR FULL BUILDING ADDRESS)

MK Architecture LLC
8200 College Parkway, Suite 101
Fort Myers, Florida 33919
239.482.2121
AR10564 ID6790
www.MK-ARCH.com

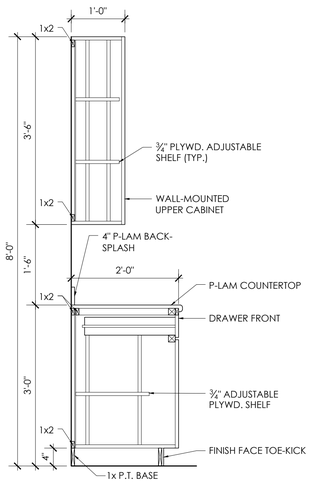
MICHAEL K. SHEELEY
REG. # 0010564
STATE OF FLORIDA
MICHAEL K. SHEELEY
AR0010564
REGISTERED ARCHITECT

JOB:	MK24020
DATE:	2-7-25
DRWN. BY:	SLVB
CAD REF:	ROOF

SHEET
A2.1

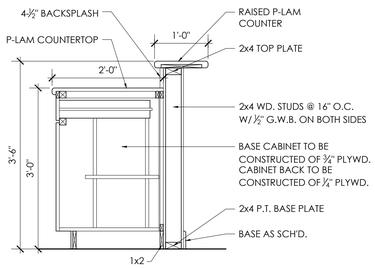
MK Architecture, LLC hereby reserves its common law copyright and other property rights in these plans, designs, arrangements and ideas. These ideas, plans and designs are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party without first obtaining the express written permission from MK Architecture, LLC.
Contractors shall verify and be responsible for all dimensions and conditions of the job. MK Architecture, LLC shall be notified in writing of any variations or discrepancies from the dimensions, conditions and specifications shown by these drawings. All construction shall be in accordance with the current Florida Building Code.

C:\USERS\USER\MK ARCHITECTURE DROPBOX\MK DESIGN FILES\ACAD\DWGS\MK ARCH\MK24020-HABITAT TOWNHOUSES-LEE COUNTY\~4-UNIT\CONSTRUCTION DOCUMENTS\MK24020-4-A2-ROOF.DWG \ February 11, 2025



1 A3.1 CASEWORK SECTION

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

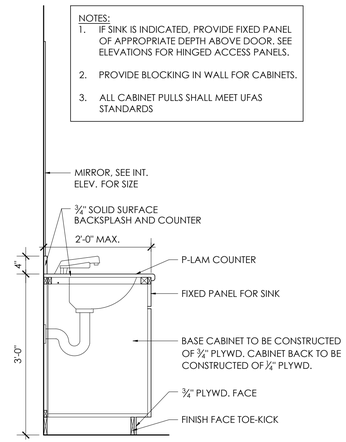


2 A3.1 COUNTER SECTION

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

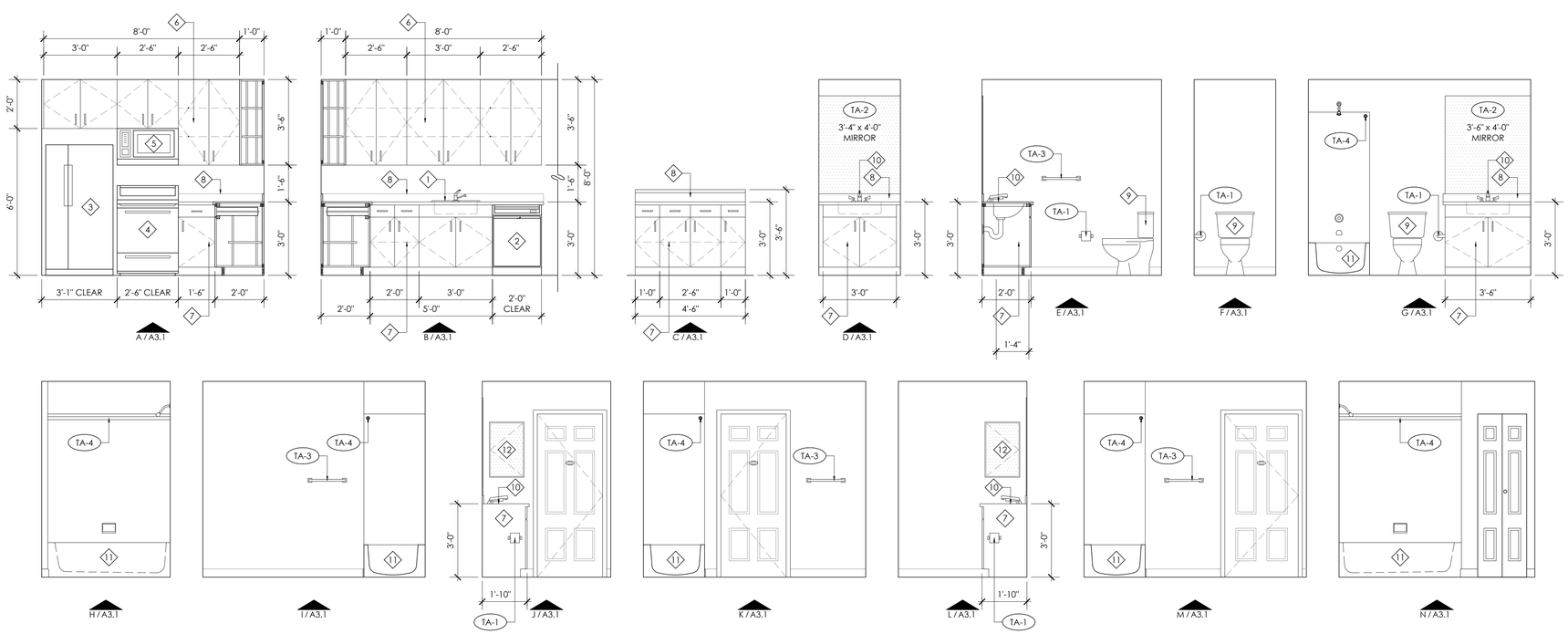
NOTES:

1. IF SINK IS INDICATED, PROVIDE FIXED PANEL OF APPROPRIATE DEPTH ABOVE DOOR. SEE ELEVATIONS FOR HINGED ACCESS PANELS.
2. PROVIDE BLOCKING IN WALL FOR CABINETS.
3. ALL CABINET PULLS SHALL MEET UFAS STANDARDS



3 A3.1 LAVATORY SECTION

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



INTERIOR ELEVATIONS

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

INTERIOR ELEVATION KEYNOTES

1 STAINLESS STEEL SINK	7 BASE CABINETS AND COUNTERTOP
2 DISHWASHER	8 4" BACKSPLASH
3 REFRIGERATOR	9 WATER CLOSET
4 FULL-SIZED RANGE	10 LAVATORY
5 MICROWAVE	11 BATHTUB
6 WALL-MOUNTED CABINETS	12 RECESSED MEDICINE CABINET

TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION	MANUFACTURER / MODEL	MOUNTING LOCATION	MOUNTING HEIGHT
TA-1	TOILET TISSUE DISPENSER	BOBRICK - MODEL #B-6851	TOP	20"
TA-2	MIRROR	BOBRICK - MODEL #B-165	BOTTOM	
TA-3	TOWEL BAR	BOBRICK - MODEL #B-6737	TOP	48"
TA-4	SHOWER CURTAIN ROD	BOBRICK - MODEL #B-6107 W/ 204-1 HOOKS AND 204-2 SHOWER CURTAIN	C/L	78"

TOILET ACCESSORY NOTES

1. G.C. SHALL PROVIDE ALL WALL REINFORCEMENTS NECESSARY FOR COMPLETE INSTALLATION OF TOILET ACCESSORIES AS RECOMMENDED BY MANUFACTURERS.
2. G.C. SHALL VERIFY WITH OWNER, PRIOR TO COMMENCEMENT, RESPONSIBILITY OF SUPPLYING TOILET ACCESSORIES. G.C. SHALL BE RESPONSIBLE FOR FINAL INSTALLATION.
3. SEE INTERIOR ELEVATIONS FOR SIZE AND MOUNTING HEIGHTS OF MIRRORS.

PROGRESS SET - NOT FOR CONSTRUCTION

MK Architecture, LLC hereby reserves its common law copyright and other property rights in these plans, designs, arrangements and ideas. These ideas, plans and designs are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party without first obtaining the express written permission from MK Architecture, LLC. Contractors shall verify and be responsible for all dimensions and conditions of the job. MK Architecture, LLC shall be notified in writing of any variations or discrepancies from the dimensions, conditions and specifications shown by these drawings. All construction shall be in accordance with the current Florida Building Code.

No:	REVISIONS
1	-
2	-
3	-
4	-
5	-

CONSTRUCTION DOCUMENTS FOR
HABITAT FOR HUMANITY
4-UNIT TOWNHOUSE
FORT MYERS, FLORIDA
(SEE COVER SHEET FOR FULL BUILDING ADDRESS)

MK Architecture LLC
8200 College Parkway, Suite 101
Fort Myers, Florida 33919
239.482.2121
AR10564 ID6790
www.MK-ARCH.com

MICHAEL K. SHEELEY
REG. # 0010564
STATE OF FLORIDA
MICHAEL K. SHEELEY
AR0010564
REGISTERED ARCHITECT

JOB:	MK24020
DATE:	2-7-25
DRWN. BY:	SLVB
CAD REF:	ENL

SHEET
A3.1

C:\USERS\USER\MK ARCHITECTURE DROPBOX\MK DESIGN FILES\ACAD\DWGS\MK ARCH\MK24020-HABITAT TOWNHOUSES-LEE COUNTY\--COMMON\MK24020-A3-ENL.DWG \ February 11, 2025

DOOR SCHEDULE

LOCATION MARK	LOCATION ROOM NAME	DOOR MATERIAL	DOOR TYPE	DOOR WTH.	DOOR HT.	DOOR THK.	DOOR GLAZING	DOOR FINISH	FRAME MATERIAL	FRAME TYPE	FRAME HD.	FRAME JM.	FRAME SL.	FRAME FINISH	SPECIFIC INFORMATION RATING	SPECIFIC INFORMATION HDWE.	SPECIFIC INFORMATION NOTES	FL PRODUCT APPROVAL #
UNIT A																		
101	FOYER	FIBERGLASS	1	3'-0"	6'-8"	1 3/4"		PAINT	H.M.	A	15 / A4.2	16 / A4.2	17 / A4.2	PAINT		1	1	FL# 13459.1
102	HALL	STEEL	1	3'-0"	6'-8"	1 3/4"		PAINT	H.M.	A	8 / A4.2	9 / A4.2	18 / A4.2	PAINT	45 MIN.	1	1, 2	
103	POWDER ROOM	WOOD	2	2'-8"	6'-8"	1 3/4"		PAINT	WOOD	A	1 / A4.2	2 / A4.2		PAINT		3		
104	PANTRY	WOOD	4	1'-6"	6'-8"	1 3/4"		PAINT	WOOD	A	6 / A4.2	7 / A4.2		PAINT		3		
107	PATIO	ALUM. / GLS.	5	6'-4"	6'-8"		LOW-E	POWDER	ALUM.		10 / A4.2	11 / A4.2	12 / A4.2	POWDER		3	1, 3	FL# 251.4
108	GARAGE	STEEL	6	8'-0"	7'-0"			FACTORY						FACTORY		3		FL# 5684.2
202	CL.	WOOD	3	(2) 2'-6"	6'-8"	1 3/4"		PAINT	WOOD	B	6 / A4.2	7 / A4.2		PAINT		3		
203	MASTER BEDROOM	WOOD	1	3'-0"	6'-8"	1 3/4"		PAINT	WOOD	A	13 / A4.2	14 / A4.2		PAINT		2		
203A	W.I.C.	WOOD	1	2'-8"	6'-8"	1 3/4"		PAINT	WOOD	A	13 / A4.2	14 / A4.2		PAINT		2		
203B	CL.	WOOD	3	3'-0"	6'-8"	1 3/4"		PAINT	WOOD	A	6 / A4.2	7 / A4.2		PAINT		3		
204	BATH	WOOD	1	3'-0"	6'-8"	1 3/4"		PAINT	WOOD	A	13 / A4.2	14 / A4.2		PAINT		2		
204A	CL.	WOOD	3	2'-0"	6'-8"	1 3/4"		PAINT	WOOD	A	6 / A4.2	7 / A4.2		PAINT		3		
205	CL.	WOOD	3	(2) 2'-0"	6'-8"	1 3/4"		PAINT	WOOD	B	6 / A4.2	7 / A4.2		PAINT		3		
206	W/D	WOOD	3	(2) 2'-6"	6'-8"	1 3/4"		PAINT	WOOD	B	6 / A4.2	7 / A4.2		PAINT		3		
207	BATH	WOOD	1	3'-0"	6'-8"	1 3/4"		PAINT	WOOD	A	13 / A4.2	14 / A4.2		PAINT		2		
208	BEDROOM	WOOD	1	3'-0"	6'-8"	1 3/4"		PAINT	WOOD	A	13 / A4.2	14 / A4.2		PAINT		2		
208A	CL.	WOOD	3	(2) 2'-0"	6'-8"	1 3/4"		PAINT	WOOD	B	6 / A4.2	7 / A4.2		PAINT		3		
209	BEDROOM	WOOD	1	3'-0"	6'-8"	1 3/4"		PAINT	WOOD	A	13 / A4.2	14 / A4.2		PAINT		2		
209A	CL.	WOOD	3	(2) 2'-6"	6'-8"	1 3/4"		PAINT	WOOD	B	6 / A4.2	7 / A4.2		PAINT		3		
UNIT B																		
101	FOYER	FIBERGLASS	1	3'-0"	6'-8"	1 3/4"		PAINT	H.M.	A	15 / A4.2	16 / A4.2	17 / A4.2	PAINT		1	1	FL# 13459.1
102	HALL	STEEL	1	3'-0"	6'-8"	1 3/4"		PAINT	H.M.	A	8 / A4.2	9 / A4.2	18 / A4.2	PAINT	45 MIN.	1	1, 2	
103	POWDER ROOM	WOOD	2	2'-8"	6'-8"	1 3/4"		PAINT	WOOD	A	1 / A4.2	2 / A4.2		PAINT		3		
104	PANTRY	WOOD	4	1'-6"	6'-8"	1 3/4"		PAINT	WOOD	A	6 / A4.2	7 / A4.2		PAINT		3		
107	PATIO	ALUM. / GLS.	5	6'-4"	6'-8"		LOW-E	POWDER	ALUM.		10 / A4.2	11 / A4.2	12 / A4.2	POWDER		3	1, 3	FL# 251.4
108	GARAGE	STEEL	6	8'-0"	7'-0"			FACTORY						FACTORY		3		FL# 5684.2
202	BEDROOM	WOOD	1	3'-0"	6'-8"	1 3/4"		PAINT	WOOD	A	13 / A4.2	14 / A4.2		PAINT		2		
202A	CL.	WOOD	3	(2) 2'-0"	6'-8"	1 3/4"		PAINT	WOOD	B	6 / A4.2	7 / A4.2		PAINT		3		
203	MASTER BEDROOM	WOOD	1	3'-0"	6'-8"	1 3/4"		PAINT	WOOD	A	13 / A4.2	14 / A4.2		PAINT		2		
203A	CL.	WOOD	4	3'-0"	6'-8"	1 3/4"		PAINT	WOOD	A	6 / A4.2	7 / A4.2		PAINT		3		
203B	CL.	WOOD	4	3'-0"	6'-8"	1 3/4"		PAINT	WOOD	A	6 / A4.2	7 / A4.2		PAINT		3		
204	BATH	WOOD	1	2'-8"	6'-8"	1 3/4"		PAINT	WOOD	A	13 / A4.2	14 / A4.2		PAINT		2		
205	CL.	WOOD	3	(2) 2'-0"	6'-8"	1 3/4"		PAINT	WOOD	B	6 / A4.2	7 / A4.2		PAINT		3		
206	W/D	WOOD	3	(2) 2'-6"	6'-8"	1 3/4"		PAINT	WOOD	B	6 / A4.2	7 / A4.2		PAINT		3		
207	BATH	WOOD	1	2'-8"	6'-8"	1 3/4"		PAINT	WOOD	A	13 / A4.2	14 / A4.2		PAINT		2		
208	BEDROOM	WOOD	1	3'-0"	6'-8"	1 3/4"		PAINT	WOOD	A	13 / A4.2	14 / A4.2		PAINT		2		
208A	CL.	WOOD	3	(2) 2'-6"	6'-8"	1 3/4"		PAINT	WOOD	B	6 / A4.2	7 / A4.2		PAINT		3		
209	BEDROOM	WOOD	1	3'-0"	6'-8"	1 3/4"		PAINT	WOOD	A	13 / A4.2	14 / A4.2		PAINT		2		
209A	CL.	WOOD	3	(2) 2'-6"	6'-8"	1 3/4"		PAINT	WOOD	B	6 / A4.2	7 / A4.2		PAINT		3		

DOOR SCHEDULE NOTES

GENERAL

G1. PROVIDE A COMPLETE SET OF RUBBER SILENCERS FOR ALL DOORS.
G2. ALL DOOR FINISHES AND TRIM SHALL BE SELECTED / APPORVED BY THE INTERIOR DESIGNER.

SPECIFIC

1. PROVIDE WEATHER STRIPPING.
2. PROVIDE RATED DOOR, FAME, CLOSER, AND HARDWARE
3. IMPACT RESISTANT, LOW-E GLAZING.

RESIDENTIAL HARDWARE SCHEDULE

NOTE: PROVIDED RATED & LABELED HARDWARE DOORS & FRAMES IN ALL RATED LOCATIONS

BASED ON:
- HINGES - HAGER
- LOCKS - SCHLAGE "F" SERIES
- CLOSERS (IF REQUIRED) - LCN
- STOPS - IVES, ROCKWOOD
- THRESHOLDS, DOOR BOTTOMS, SEALS - PEMKO

HARDWARE SET #1 - ENTRANCE

• 1 1/2" PR. EACH HAG HINGES	1191 4.5 x 4.5 US32D
• 1 EACH SCH ENTRANCE	A53PD JAZZ US26D
• 1 EACH SCH DEADBOLT	B36N US26D
• 1 EACH ROC STOP	409 US32D
• 1 EACH PEM THRESHOLD	2005AT
• 1 EACH PEM SEAL	PK55D

HARDWARE SET #2 - PRIVACY

• 1 1/2" PR. EACH HAG HINGES	1191 4.5 X 4.5 US32D
• 1 EACH SCH PRIVACY	A40S JAZZ US26D
• 1 EACH ROC STOP	409 US32D

HARDWARE SET #3 - MISC.

ALL HARDWARE PROVIDED BY DOOR SUPPLIER

HARDWARE SCHEDULE NOTES

1. ALL HARDWARE SETS BASED ONALL HARDWARE SETS BASED ON SINGLE LEAF DOOR. PROVIDE TWO SETS AS REQUIRED AND ALL ADDITIONAL HARDWARE AS NEEDED FOR ALL DOUBLE LEAF DOOR LOCATIONS.
2. FINAL FINISH ON ALL ITEMS IS TO MATCH FOR COLOR RANGE AND FINISH.
3. THIS HARDWARE SCHEDULE IS FOR REFERENCE ONLY. CONTRACTOR IS TO PROVIDE HARDWARE CONSULTANT TO WORK WITH ARCHITECT FOR COMPLETE HARDWARE PACKAGE UPON AWARD OF CONTRACT & PRIOR TO ORDERING DOORS, FRAMES OR HARDWARE.
4. USE NRP ON ALL EXTERIOR HINGES

ROOM FINISH SCHEDULE

MARK	ROOM NAME	FLOOR	BASE	WSCT.	WSCT. HT.	WALLS	CEILING	HEIGHT	NOTES
UNIT A									
100	COVERED ENTRY	CONC.				VINYL SIDING	STUCCO	8'-0"	
101	FOYER	CARPET	WOOD			G.W.B.	G.W.B.	8'-0"	
102	HALL	CARPET	WOOD			G.W.B.	G.W.B.	8'-0"	2
103	POWDER ROOM	V.C.T.	WOOD			M.R. G.W.B.	M.R. G.W.B.	8'-0"	1
104	PANTRY	V.C.T.	WOOD			G.W.B.	G.W.B.	8'-0"	
105	KITCHEN	V.C.T.	WOOD			G.W.B.	G.W.B.	8'-0"	
106	DINING ROOM	V.C.T.	WOOD			G.W.B.	G.W.B.	8'-0"	
107	LIVING ROOM	V.C.T.	WOOD			G.W.B.	G.W.B.	8'-0"	2
108	GARAGE	CONC.				G.W.B.	G.W.B.	8'-0"	
201	STAIR	CARPET	WOOD			G.W.B.	G.W.B.	8'-0"	
202	CL.	V.C.T.	WOOD			G.W.B.	G.W.B.	8'-0"	
203	MASTER BEDROOM	CARPET	WOOD			G.W.B.	G.W.B.	8'-0"	2
203A	W.I.C.	CARPET	WOOD			G.W.B.	G.W.B.	8'-0"	2
204	BATH	V.C.T.	WOOD			M.R. G.W.B.	M.R. G.W.B.	8'-0"	1
205	CL.	V.C.T.	WOOD			G.W.B.	G.W.B.	8'-0"	
206	LAUNDRY	V.C.T.	WOOD			M.R. G.W.B.	M.R. G.W.B.	8'-0"	1
207	BATH	V.C.T.	WOOD			M.R. G.W.B.	M.R. G.W.B.	8'-0"	1
208	BEDROOM	CARPET	WOOD			G.W.B.	G.W.B.	8'-0"	2
209	BEDROOM	CARPET	WOOD			G.W.B.	G.W.B.	8'-0"	2
210	HALL	CARPET	WOOD			G.W.B.	G.W.B.	8'-0"	2
UNIT B									
100	COVERED ENTRY	CONC.				VINYL SIDING	STUCCO	8'-0"	
101	FOYER	CARPET	WOOD			G.W.B.	G.W.B.	8'-0"	
102	HALL	CARPET	WOOD			G.W.B.	G.W.B.	8'-0"	2
103	POWDER ROOM	V.C.T.	WOOD			M.R. G.W.B.	M.R. G.W.B.	8'-0"	1
104	PANTRY	V.C.T.	WOOD			G.W.B.	G.W.B.	8'-0"	
105	KITCHEN	V.C.T.	WOOD			G.W.B.	G.W.B.	8'-0"	
106	DINING ROOM	V.C.T.	WOOD			G.W.B.	G.W.B.	8'-0"	
107	LIVING ROOM	V.C.T.	WOOD			G.W.B.	G.W.B.	8'-0"	2
108	GARAGE	CONC.				G.W.B.	G.W.B.	8'-0"	
201	STAIR	CARPET	WOOD			G.W.B.	G.W.B.	8'-0"	
202	BEDROOM	CARPET	WOOD			G.W.B.	G.W.B.	8'-0"	2
203	MASTER BEDROOM	CARPET	WOOD			G.W.B.	G.W.B.	8'-0"	2
204	BATH	V.C.T.	WOOD			M.R. G.W.B.	M.R. G.W.B.	8'-0"	1
205	CL.	V.C.T.	WOOD			G.W.B.	G.W.B.	8'-0"	
206	LAUNDRY	V.C.T.	WOOD			M.R. G.W.B.	M.R. G.W.B.	8'-0"	1
207	BATH	V.C.T.	WOOD			M.R. G.W.B.	M.R. G.W.B.	8'-0"	1
208	BEDROOM	CARPET	WOOD			G.W.B.	G.W.B.	8'-0"	2
209	BEDROOM	CARPET	WOOD			G.W.B.	G.W.B.	8'-0"	2
210	HALL	CARPET	WOOD			G.W.B.	G.W.B.	8'-0"	2

FINISH SCHEDULE NOTES

GENERAL

G1. PROVIDE METAL REDUCER STRIP AT ALL EDGE AREAS OF CARPET.
G2. PROVIDE MARBLE THLD. AT EDGE OF ALL CERAMIC OR QUARRY TILE. SLOPE IF REQUIRED DUE TO FLOOR HEIGHT DIFFERENTIAL. MAXIMUM FINISHED HEIGHT DIFFERENTIAL TO BE 1/2".
G3. DRYWALL/G.W.B. FINISH TO BE LIGHT SKIP TROWEL UNLESS NOTED OTHERWISE.

SPECIFIC

1. PROVIDE MOISTURE RESISTANT G.W.B. IN ALL "WET AREAS" ADJACENT TO PLUMBING AND PLUMBING FIXTURES.
2. PROVIDE OPTION FOR V.C.T. OR CARPET IN THIS AREA.

WINDOW SCHEDULE

MARK	TYPE	WIDTH	HEIGHT	MAT'L.	FINISH	GLAZING	HD.	JM.	SL.	RATING	NOTES	F.P.A.#
A	HORIZ. SLIDER	6'-0"	4'-4"	ALUM.	POWDER	LOW-E	3 / A4.2	4 / A4.2	5 / A4.2		1, 2	FL# 242.4
B	FIXED	2'-6"	4'-4"	ALUM.	POWDER	LOW-E	3 / A4.2	4 / A4.2	5 / A4.2		1	FL# 243.8
C	HORIZ. SLIDER	4'-0"	4'-4"	ALUM.	POWDER	LOW-E	3 / A4.2	4 / A4.2	5 / A4.2		1, 2	FL# 242.4

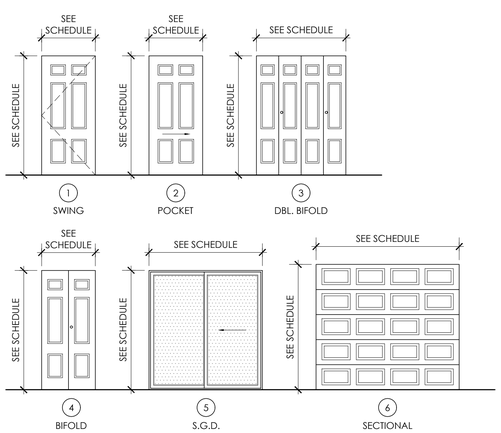
WINDOW SCHEDULE NOTES

GENERAL

G1. VERIFY WINDOW ROUGHT OPENINGS W/ WINDOW MFGR.
G2. WINDOWS SPECIFIED PER PRODUCT APPROVAL # OR APPROVED EQUAL.
G3. INSTALL ALL WINDOWS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
G4. ALL EXTERIOR WINDOWS AND GLAZING SYSTEMS ARE TO BE IMPACT-RATED.
G5. TEMPERED OR IMPACT RESISTANT GLASS IS REQUIRED WHEREVER GLASS IS 9 SQ. FT. OR LARGER AND WHEREVER GLASS IS 18" OR LESS A.F.F.

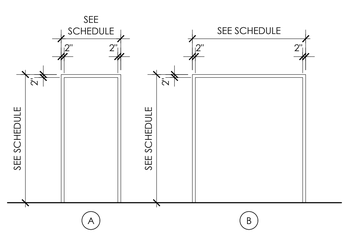
SPECIFIC

1. IMPACT RESISTANT WINDOW UNIT
2. EGRESS WINDOW



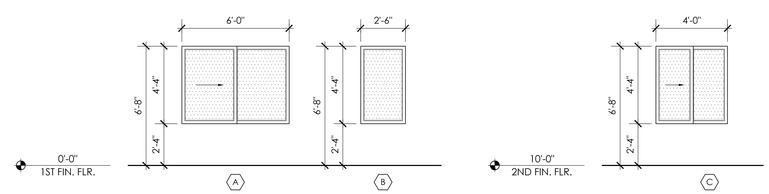
DOOR ELEVATIONS

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



DOOR FRAME ELEVATIONS

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



WINDOW ELEVATIONS

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

PROGRESS SET - NOT FOR CONSTRUCTION

No:	REVISIONS
1	-
2	-
3	-
4	-
5	-

CONSTRUCTION DOCUMENTS FOR
HABITAT FOR HUMANITY
4-UNIT TOWNHOUSE
FORT MYERS, FLORIDA
(SEE COVER SHEET FOR FULL BUILDING ADDRESS)

MK Architecture LLC
8200 College Parkway, Suite 101
Fort Myers, Florida 33919
239.482.2121
AR10564 ID6790
www.MK-ARCH.com

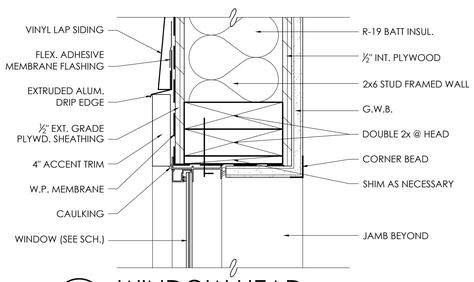
MICHAEL K. SHEELEY
REG. # 0010564
STATE OF FLORIDA
MICHAEL K. SHEELEY
AR0010564
REGISTERED ARCHITECT

JOB:	MK24020
DATE:	2-7-25
DRWN. BY:	SLVB
CAD REF:	SCH

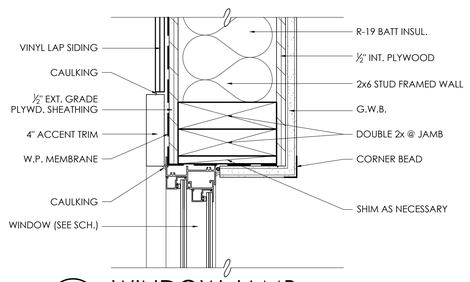
SHEET
A4.1

MK Architecture, LLC hereby reserves its common law copyright and other property rights in these plans, designs, arrangements and ideas. These ideas, plans and designs are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party without first obtaining the express written permission from MK Architecture, LLC. Contractors shall verify and be responsible for all dimensions and conditions of the job. MK Architecture, LLC shall be notified in writing of any variations or discrepancies from the dimensions, conditions and specifications shown by these drawings. All construction shall be in accordance with the current Florida Building Code.

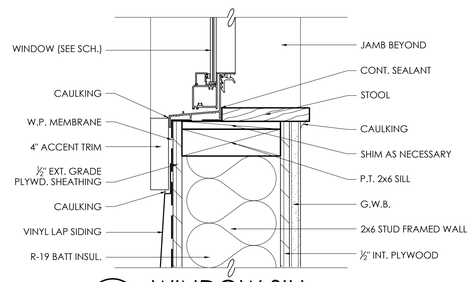
C:\USERS\USER\MK ARCHITECTURE DROPBOX\MK DESIGN FILES\ACAD\DWGS\MK ARCH\MK24020-HABITAT TOWNHOUSES-LEE COUNTY--COMMON\MK24020-A4-SCH.DWG \ February 11, 2025



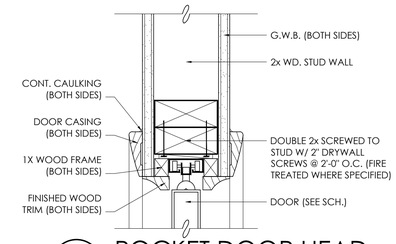
3 A4.2 WINDOW HEAD
SCALE: 3" = 1'-0"



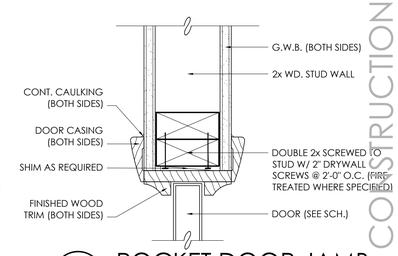
4 A4.2 WINDOW JAMB
SCALE: 3" = 1'-0"



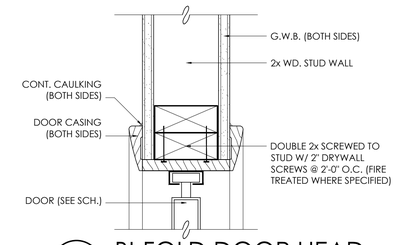
5 A4.2 WINDOW SILL
SCALE: 3" = 1'-0"



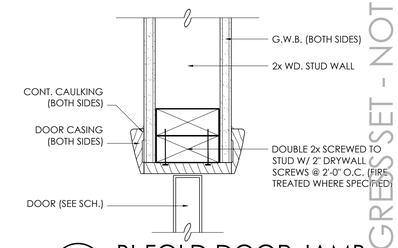
1 A4.2 POCKET DOOR HEAD
SCALE: 3" = 1'-0"



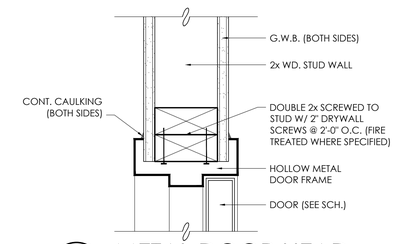
2 A4.2 POCKET DOOR JAMB
SCALE: 3" = 1'-0"



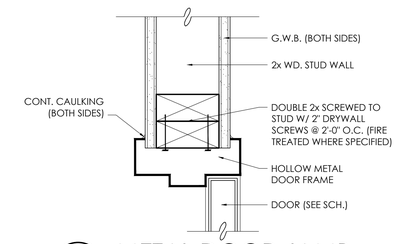
6 A4.2 BI-FOLD DOOR HEAD
SCALE: 3" = 1'-0"



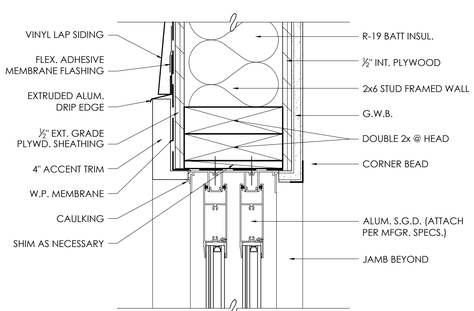
7 A4.2 BI-FOLD DOOR JAMB
SCALE: 3" = 1'-0"



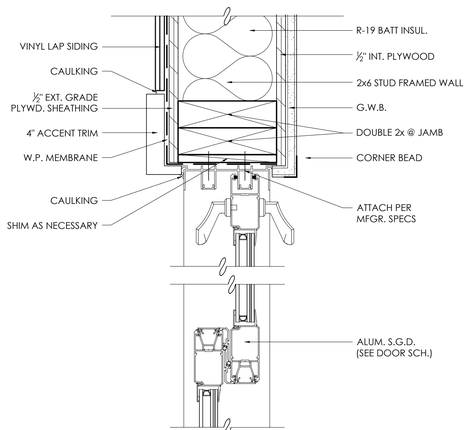
8 A4.2 METAL DOOR HEAD
SCALE: 3" = 1'-0"



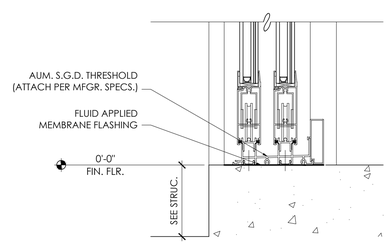
9 A4.2 METAL DOOR JAMB
SCALE: 3" = 1'-0"



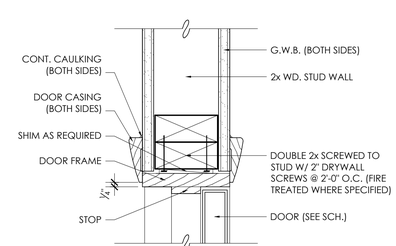
10 A4.2 SLIDING GLASS DOOR HEAD
SCALE: 3" = 1'-0"



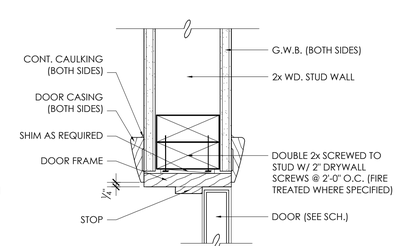
11 A4.2 SLIDING GLASS DOOR JAMB
SCALE: 3" = 1'-0"



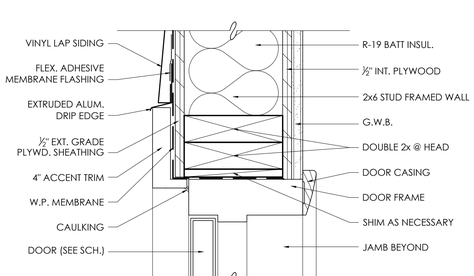
12 A4.2 SLIDING GLASS DOOR THRESHOLD
SCALE: 3" = 1'-0"



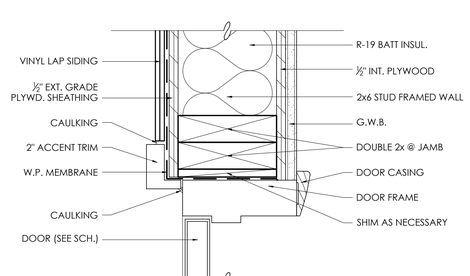
13 A4.2 INTERIOR DOOR HEAD
SCALE: 3" = 1'-0"



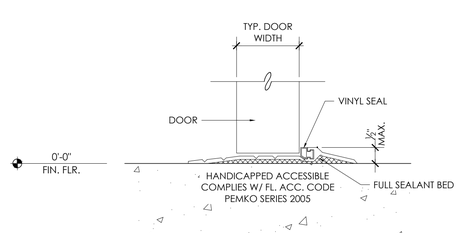
14 A4.2 INTERIOR DOOR JAMB
SCALE: 3" = 1'-0"



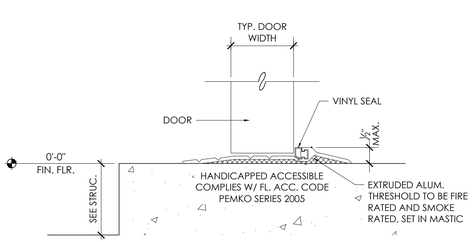
15 A4.2 EXTERIOR DOOR HEAD
SCALE: 3" = 1'-0"



16 A4.2 EXTERIOR DOOR JAMB
SCALE: 3" = 1'-0"



17 A4.2 THRESHOLD DTL.
SCALE: 6" = 1'-0"



18 A4.2 THRESHOLD DTL. @ SMOKE BARRIER
SCALE: 6" = 1'-0"

PROGRESS SET - NOT FOR CONSTRUCTION

No:	REVISIONS
1	-
2	-
3	-
4	-
5	-

CONSTRUCTION DOCUMENTS FOR
HABITAT FOR HUMANITY
4-UNIT TOWNHOUSE
FORT MYERS, FLORIDA
(SEE COVER SHEET FOR FULL BUILDING ADDRESS)

MK Architecture LLC
8200 College Parkway, Suite 101
Fort Myers, Florida 33919
239.482.2121
AR10564 ID6790
www.MK-ARCH.com

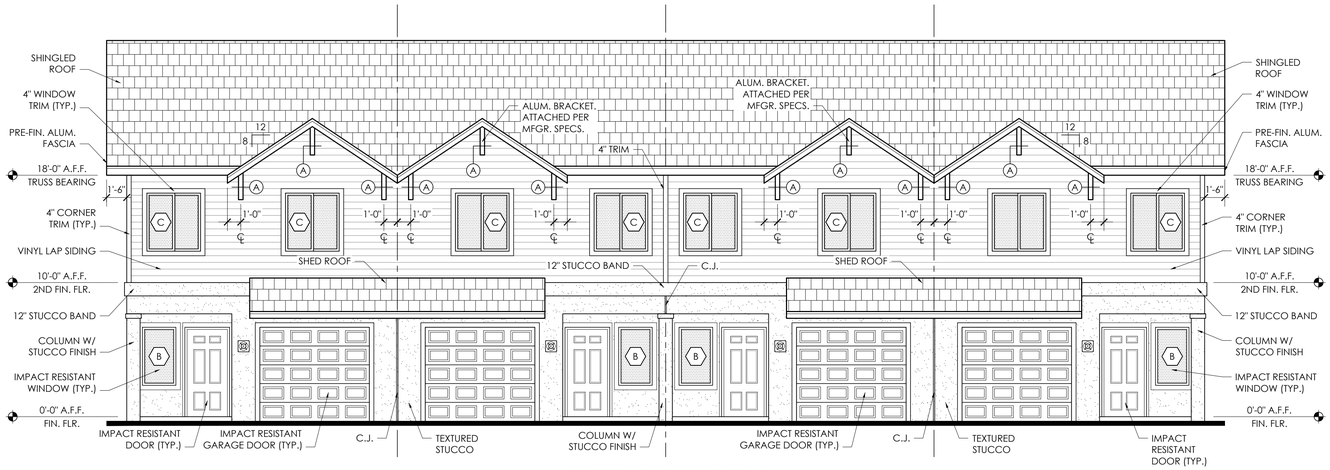
MICHAEL K. SHEELEY
REG. # 0010564
STATE OF FLORIDA
MICHAEL K. SHEELEY
AR0010564
REGISTERED ARCHITECT

JOB:	MK24020
DATE:	2-7-25
DRWN. BY:	SLVB
CAD REF:	SCH

SHEET
A4.2

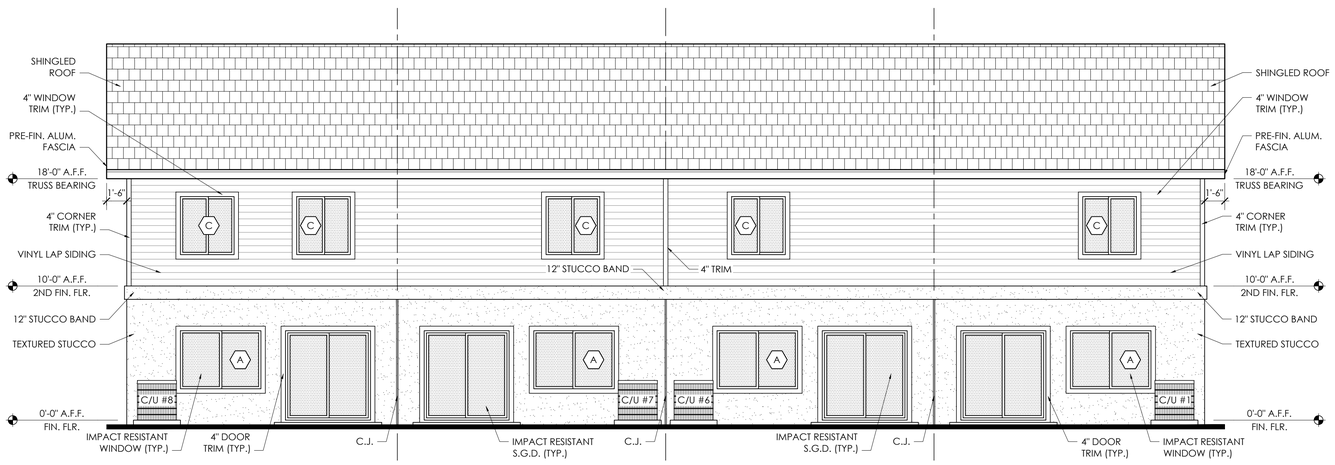
MK Architecture, LLC hereby reserves its common law copyright and other property rights in these plans, designs, arrangements and ideas. These ideas, plans and designs are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party without first obtaining the express written permission from MK Architecture, LLC. Contractors shall verify and be responsible for all dimensions and conditions of the job. MK Architecture, LLC shall be notified in writing of any variations or discrepancies from the dimensions, conditions and specifications shown by these drawings. All construction shall be in accordance with the current Florida Building Code.

C:\USERS\USER\MK ARCHITECTURE DROPBOX\MK DESIGN FILES\ACAD\DWGS\MK ARCH\MK24020-HABITAT TOWNHOUSES-LEE COUNTY\~COMMON\MK24020-A4-SCH.DWG \ February 11, 2025



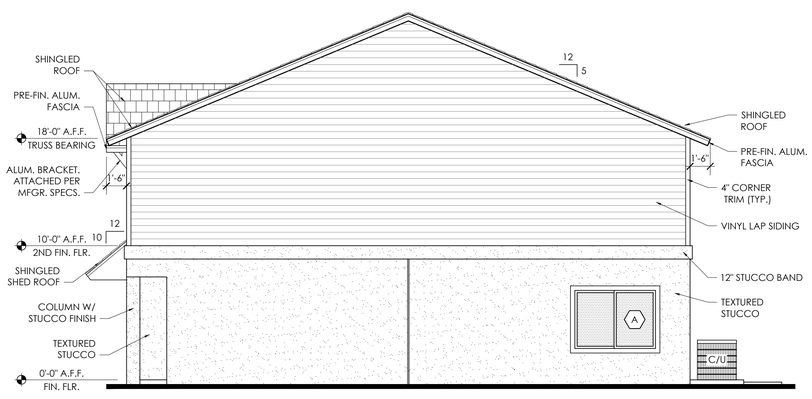
WEST ELEVATION

SCALE: 3/16" = 1'-0"



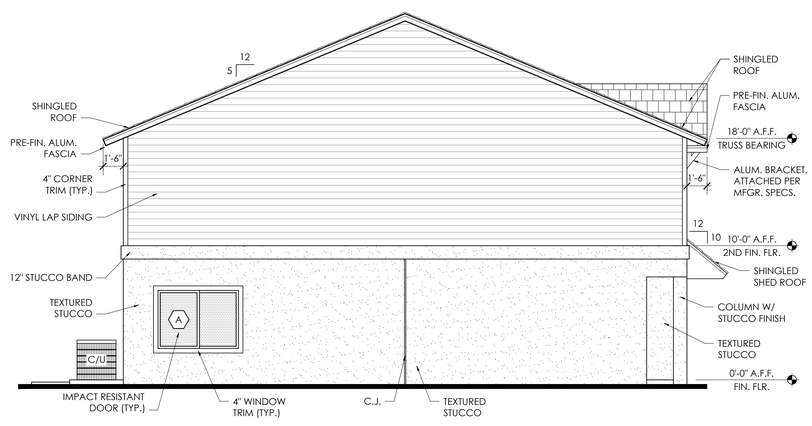
EAST ELEVATION

SCALE: 3/16" = 1'-0"



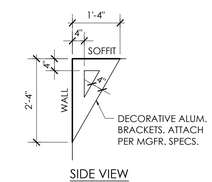
SOUTH ELEVATION

SCALE: 3/16" = 1'-0"



NORTH ELEVATION

SCALE: 3/16" = 1'-0"



SIDE VIEW

A

BRACKET DETAILS

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

PROGRESS SET - NOT FOR CONSTRUCTION

No:	REVISIONS
1	-
2	-
3	-
4	-
5	-

CONSTRUCTION DOCUMENTS FOR
HABITAT FOR HUMANITY
4-UNIT TOWNHOUSE
FORT MYERS, FLORIDA
(SEE COVER SHEET FOR FULL BUILDING ADDRESS)

MK Architecture LLC
8200 College Parkway, Suite 101
Fort Myers, Florida 33919
239.482.2121
AR10564 ID6790
www.MK-ARCH.com

MICHAEL K. SHEELEY
REG. # 0010564
STATE OF FLORIDA
MICHAEL K. SHEELEY
AR0010564
REGISTERED ARCHITECT

JOB:	MK24020
DATE:	2-7-25
DRWN. BY:	SLVB
CAD REF:	ELEV

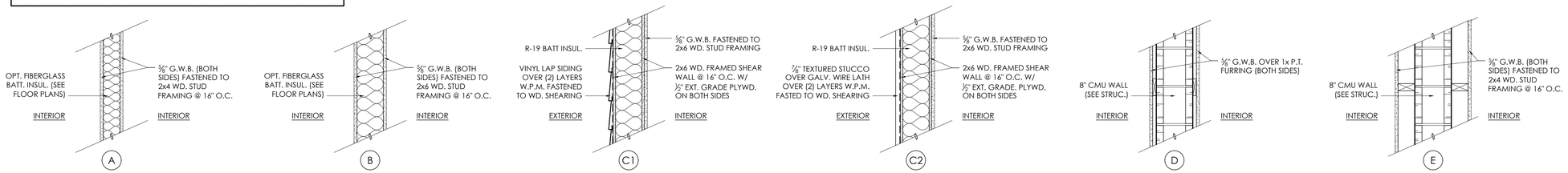
SHEET
A5.1

MK Architecture, LLC hereby reserves its common law copyright and other property rights in these plans, designs, arrangements and ideas. These ideas, plans and designs are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party without first obtaining the express written permission from MK Architecture, LLC.
Contractors shall verify and be responsible for all dimensions and conditions of the job. MK Architecture, LLC shall be notified in writing of any variations or discrepancies from the dimensions, conditions and specifications shown by these drawings. All construction shall be in accordance with the current Florida Building Code.

C:\USERS\USER\MK ARCHITECTURE DROPBOX\MK DESIGN FILES\ACAD\DWGS\MK ARCH\MK24020-HABITAT TOWNHOUSES-LEE COUNTY\--4-UNIT\CONSTRUCTION DOCUMENTS\MK24020-4-A5-ELEV.DWG \ February 11, 2025

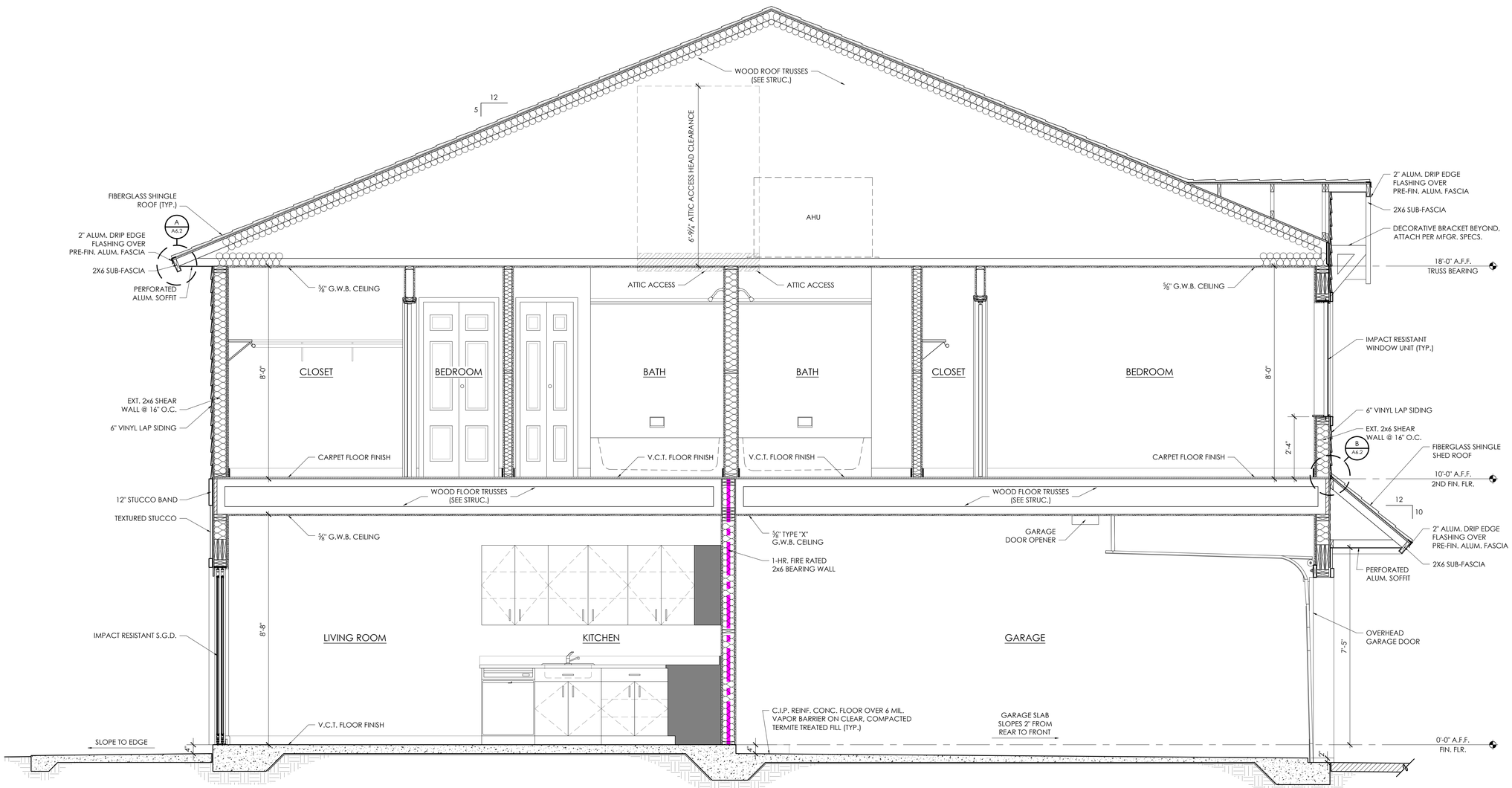
NOTES:

1. REFER TO STRUCTURAL DRAWINGS FOR C.M.U. WALL REINFORCING.
2. REFER TO EXTERIOR ELEVATION DRAWINGS FOR LOCATIONS OF CEMENT PLASTER SCORING, REVEALS, CONTROL JOINTS, AND OTHER SURFACE ORNAMENTATION.
3. SEE FLOOR PLAN DRAWINGS FOR LOCATIONS OF SOUND ATTENUATION INSULATION.
4. ALL EXPOSED CMU, STUCCO, AND GYPSUM BOARD SURFACES TO BE PAINTED.
5. SEE LIFE SAFTEY PLANS FOR WALL FIRE RATINGS REQUIREMENTS AND LOCATIONS.



WALL TYPE DETAILS

SCALE: 1" = 1'-0"



1 / A1.1 A1.2

BUILDING SECTION

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

C:\USERS\USER\MK ARCHITECTURE DROPBOX\MK DESIGN FILES\ACAD\DWGS\MK ARCH\MK24020-HABITAT TOWNHOUSES-LEE COUNTY\-COMMON\MK24020-A6-SEC.DWG \ February 11, 2025

PROGRESS SET - NOT FOR CONSTRUCTION

No:	REVISIONS
1	-
2	-
3	-
4	-
5	-

CONSTRUCTION DOCUMENTS FOR
HABITAT FOR HUMANITY
4-UNIT TOWNHOUSE
FORT MYERS, FLORIDA
(SEE COVER SHEET FOR FULL BUILDING ADDRESS)

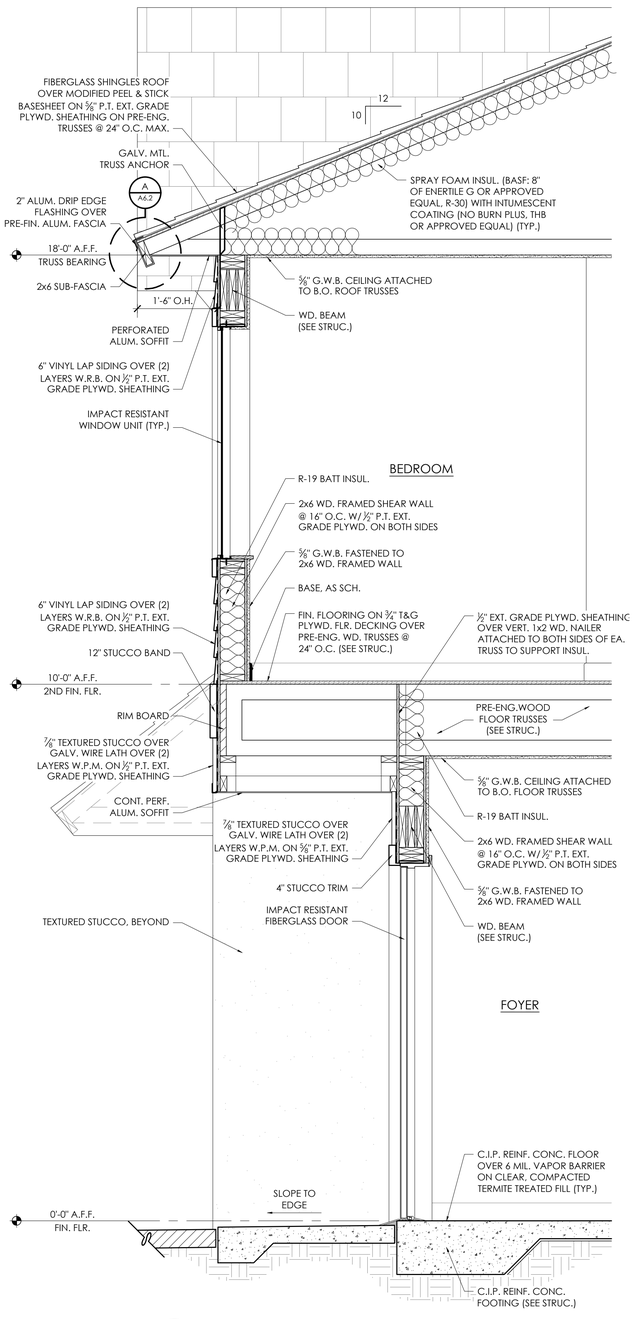
MK Architecture LLC
8200 College Parkway, Suite 101
Fort Myers, Florida 33919
239.482.2121
AR10564 ID6790
www.MK-ARCH.com

MICHAEL K. SHEELEY
REG. # 0010564
STATE OF FLORIDA
MICHAEL K. SHEELEY
AR0010564
REGISTERED ARCHITECT

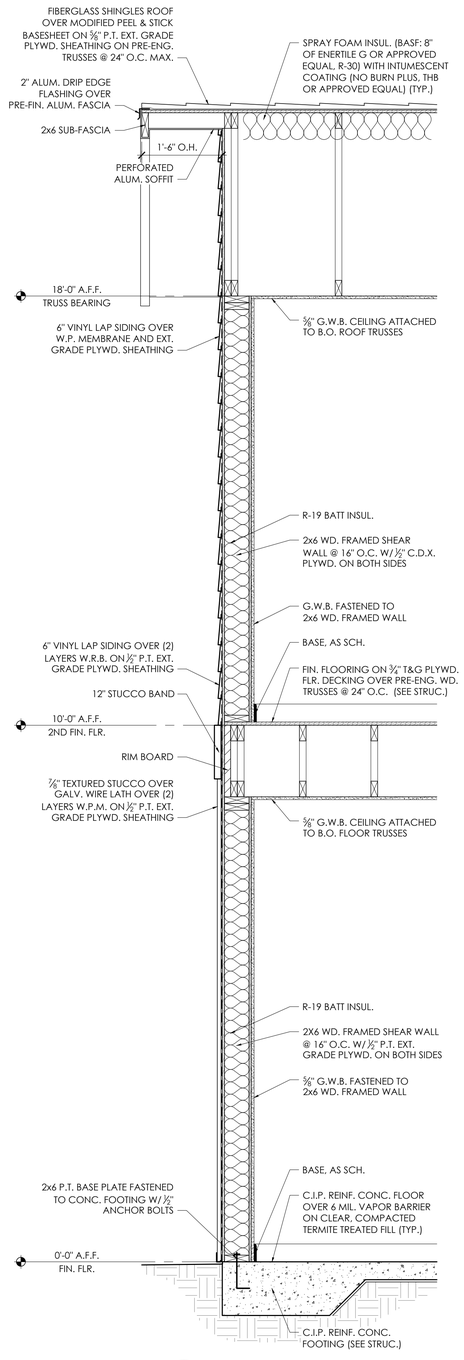
JOB:	MK24020
DATE:	2-7-25
DRWN. BY:	SLVB
CAD REF:	SEC

SHEET
A6.1

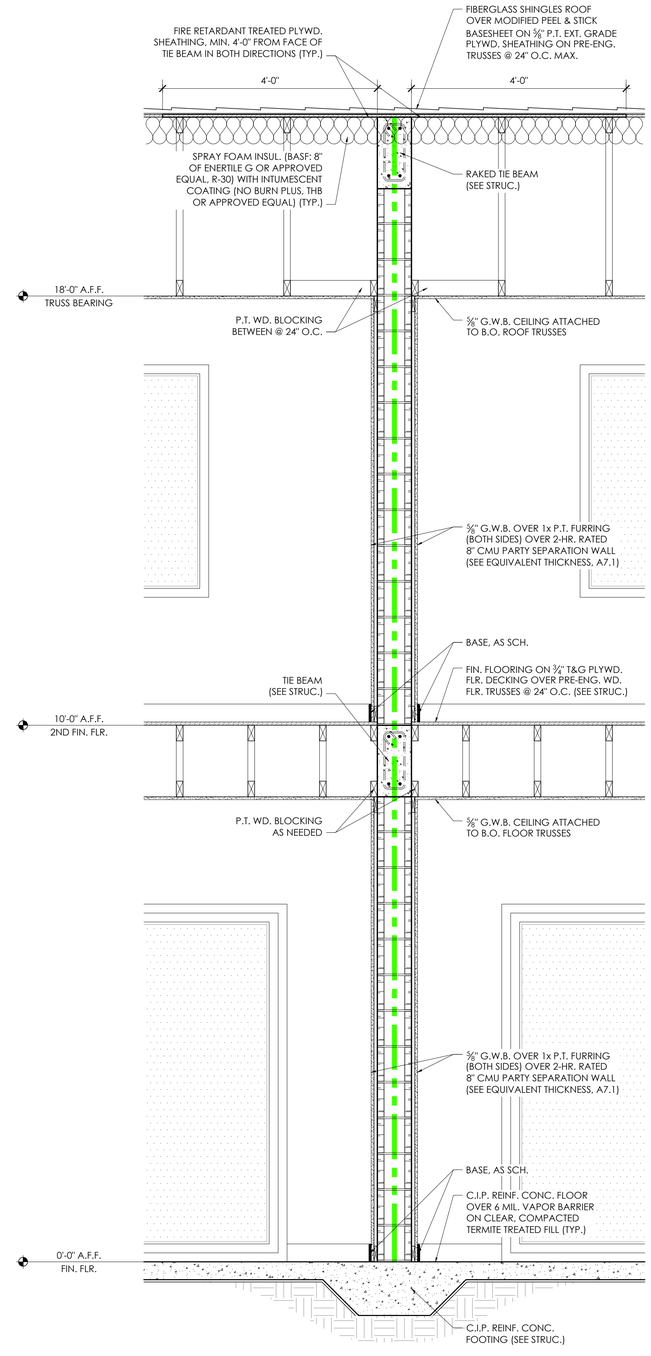
MK Architecture, LLC hereby reserves its common law copyright and other property rights in these plans, designs, arrangements and ideas. These ideas, plans and designs are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party without first obtaining the express written permission from MK Architecture, LLC. Contractors shall verify and be responsible for all dimensions and conditions of the job. MK Architecture, LLC shall be notified in writing of any variations or discrepancies from the dimensions, conditions and specifications shown by these drawings. All construction shall be in accordance with the current Florida Building Code.



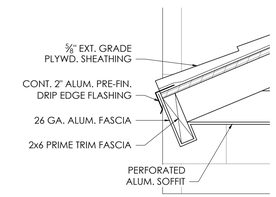
1 / A1.1 A1.2 EXT. WALL SECTION
SCALE: 3/4" = 1'-0"



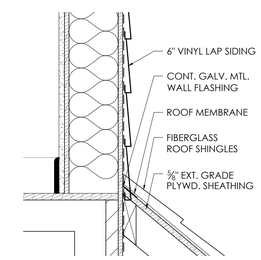
2 / A1.1 A1.2 EXT. WALL SECTION
SCALE: 3/4" = 1'-0"



3 / A1.1 A1.2 INT. CMU WALL SECTION
SCALE: 3/4" = 1'-0"



A / A6.1 A6.2 FASCIA DTL.
SCALE: 1-1/2" = 1'-0"



B / A6.1 FLASHING DTL.
SCALE: 1-1/2" = 1'-0"

PROGRESS SET - NOT FOR CONSTRUCTION

No:	REVISIONS
1	-
2	-
3	-
4	-
5	-

CONSTRUCTION DOCUMENTS FOR
HABITAT FOR HUMANITY
4-UNIT TOWNHOUSE
FORT MYERS, FLORIDA
(SEE COVER SHEET FOR FULL BUILDING ADDRESS)

MK Architecture LLC
8200 College Parkway, Suite 101
Fort Myers, Florida 33919
239.482.2121
AR10564 ID6790
www.MK-ARCH.com

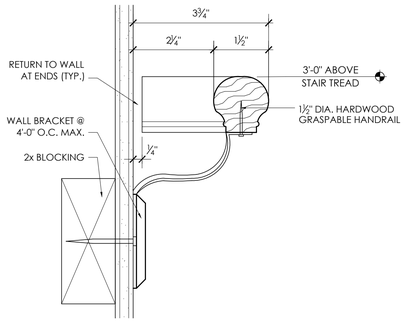
MICHAEL K. SHEELEY
REG. # 0010564
STATE OF FLORIDA
MICHAEL K. SHEELEY
AR0010564
REGISTERED ARCHITECT

JOB:	MK24020
DATE:	2-7-25
DRWN. BY:	SLVB
CAD REF:	SEC

SHEET
A6.2

MK Architecture, LLC hereby reserves its common law copyright and other property rights in these plans, designs, arrangements and ideas. These ideas, plans and designs are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party without first obtaining the express written permission from MK Architecture, LLC.
Contractors shall verify and be responsible for all dimensions and conditions of the job. MK Architecture, LLC shall be notified in writing of any variations or discrepancies from the dimensions, conditions and specifications shown by these drawings. All construction shall be in accordance with the current Florida Building Code.

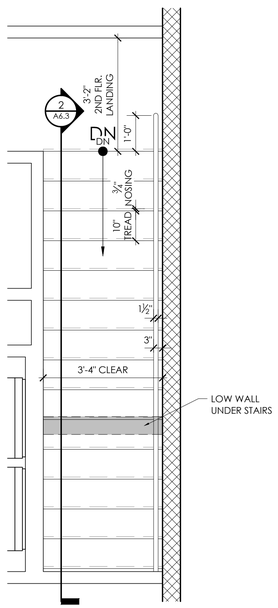
C:\USERS\USER\MK ARCHITECTURE DROPBOX\MK DESIGN FILES\ACAD\DWGS\MK ARCH\MK24020-HABITAT TOWNHOUSES-LEE COUNTY\~COMMON\MK24020-A6-SEC.DWG \ February 11, 2025



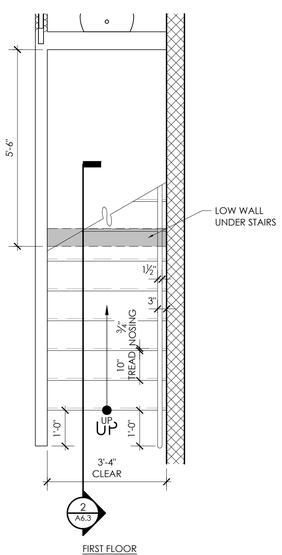
WALL MOUNTED WD. HANDRAIL DETAIL

A / A6.3

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



SECOND FLOOR



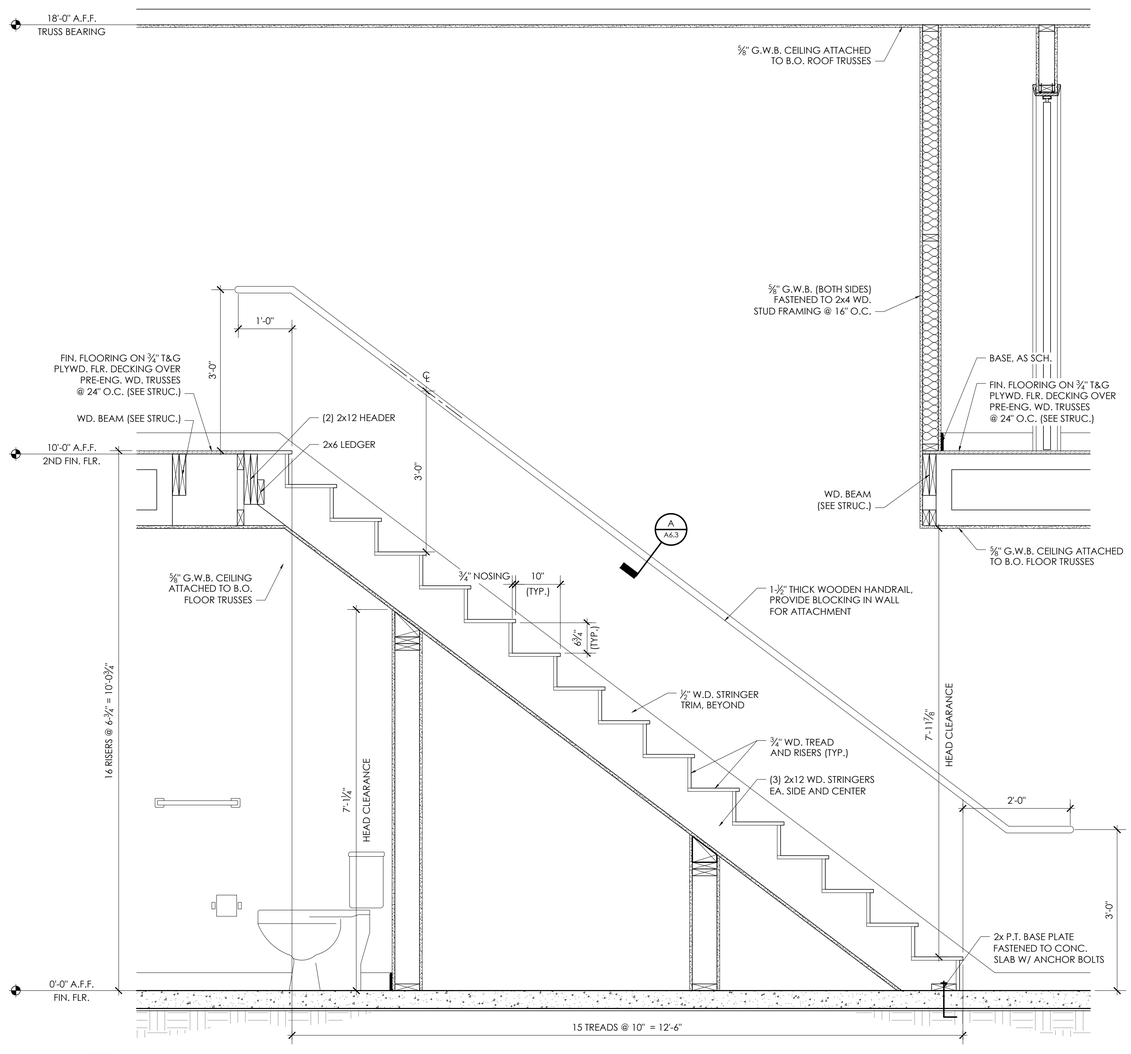
FIRST FLOOR

ENLARGED STAIR PLANS

1

A1.3	A1.4	A1.5	A1.6

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



STAIR SECTION

2 / A6.3

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

PROGRESS SET - NOT FOR CONSTRUCTION

No:	REVISIONS
1	-
2	-
3	-
4	-
5	-

CONSTRUCTION DOCUMENTS FOR
HABITAT FOR HUMANITY
4-UNIT TOWNHOUSE
FORT MYERS, FLORIDA
(SEE COVER SHEET FOR FULL BUILDING ADDRESS)

MK Architecture LLC
8200 College Parkway, Suite 101
Fort Myers, Florida 33919
239.482.2121
AR10564 ID6790
www.MK-ARCH.com

MICHAEL K. SHEELEY
REG. # 0010564
STATE OF FLORIDA
MICHAEL K. SHEELEY
AR0010564
REGISTERED ARCHITECT

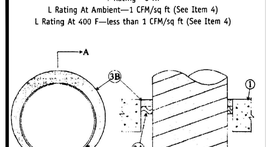
JOB:	MK24020
DATE:	2-7-25
DRWN. BY:	SLVB
CAD REF:	SEC

SHEET
A6.3

MK Architecture, LLC hereby reserves its common law copyright and other property rights in these plans, designs, arrangements and ideas. These ideas, plans and designs are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party without first obtaining the express written permission from MK Architecture, LLC. Contractors shall verify and be responsible for all dimensions and conditions of the job. MK Architecture, LLC shall be notified in writing of any variations or discrepancies from the dimensions, conditions and specifications shown by these drawings. All construction shall be in accordance with the current Florida Building Code.

C:\USERS\USER\MK ARCHITECTURE DROPBOX\MK DESIGN FILES\ACAD\DWGS\MK ARCH\MK24020-HABITAT TOWNHOUSES-LEE COUNTY\~COMMON\MK24020-A6-SEC.DWG \ February 11, 2025

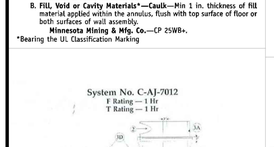
System No. C-AJ-7003
(Formerly System No. 319)
F Rating—3 Hr
T Rating—0 Hr
L Rating At Ambient—1 CFM/sq ft (See Item 4)
L Rating At 400 F—less than 1 CFM/sq ft (See Item 4)



SECTION A-A

1. **Floor or Wall Assembly**— Min 4-1/2 in. thick reinforced normal weight (140-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 18 in.
   See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. **Steel Sleeve**—(Optional, Not shown)—Nom 6 in. diam (or smaller) Schedule 40 (or heavier) steel pipe sleeve, cast into floor or wall flush with floor or wall surfaces.
3. **Through-Penetrant**—One steel duct to be installed either concentrically or eccentrically within the firestop system. An annular space of min 1/2 in. to max 1-1/2 in. is required within the firestop system. Steel duct to be rigidly supported on both sides of floor or wall assembly. The following types of steel ducts may be used:
   A. Steel Duct—Nom 16 in. diam (or smaller) No. 24 gauge (or heavier) spiral wound galv steel duct.
   B. Steel Vent Duct—Nom 10 in. diam (or smaller) No. 28 gauge (or heavier) galv steel vent duct.
3. **Firestop System**—The firestop system shall consist of the following:
   A. Packing Material—Nom 1 in. thickness of tightly-packed mineral wool batt insulation firmly packed into opening as a permanent form. Polyethylene backer rod or nom 1 in. thick glass fiber insulation may be used with steel vent ducts (Item 2B) in lieu of mineral batt insulation. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of caulk fill material.
   B. Fill, Void or Cavity Materials*—**Caulk**—Min 1 in. thickness of fill material applied within the annulus, flush with top surface of floor or both surfaces of wall assembly.
   Minnesota Mining & Mfg. Co.—CP 25WB+.
*Bearing the UL Classification Marking

System No. C-AJ-7012
F Rating — 1 Hr
T Rating — 1 Hr

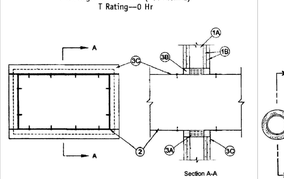


SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. thick reinforced normal weight (140-150 pcf) concrete floor or min 4-3/4 in. thick reinforced normal weight concrete wall. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of opening is 3069 sq in. with max dimension of 93 in.
   See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. **Through-Penetrant** — One steel duct to be installed within the firestop system. Duct to be rigidly supported on both sides of floor or wall assembly. The following types of through-penetrants may be used:
   A. **Steel Air Duct** — Min 26 gauge (0.021 in.) thick carbon steel duct having a max perimeter dimension of 216 in. and a max individual dimension of 84 in. Ducts with any dimension greater than 39 in., shall be provided with intermediate reinforcement in accordance with SMACNA HVAC Duct Construction Standards. Reinforcement to consist of min 1-1/2 in. by 1-1/2 in. by 1/8 in. thick transverse stiffening angles, approximately 2 in. less in length than the max dimension, screw attached 8 in. OC to the duct 3 in. beyond the top surface of the floor and both surfaces of the wall.
3. **Firestop System** — The firestop system shall consist of the following:
   A. **Duct Wrap Material*** — Nom 1-1/2 in thick, 6 pcf, ceramic blanket totally encapsulated within foil-scrim facers. The steel duct shall be wrapped with one layer of duct wrap installed in accordance with the manufacturer's installation instructions, maintaining min. 3 in. transverse and longitudinal overlaps. All cut edges and ends shall be sealed with 3 in. wide pressure sensitive aluminum foil tape. A nom annular space of 3 in. is required between the insulated duct and the periphery of the opening.
   THERMAL CERAMICS INC—FirePaper Duct Wrap or FireMaster Duct Wrap
   B. **Steel Banding Straps*** — Min 1/2 in. wide by 0.015 in. thick carbon steel banding straps used in conjunction with min 1 in. long stainless steel crimp clips. Banding straps spaced a max 12 in. OC and 1-1/2 in. from transverse joints of duct wrap.
   C. **Packing Material** — Min 4 in. thickness of unfaced scrap duct wrap material or min 3 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from the top surface of the floor or both surfaces of wall as required to accommodate the required thickness of fill material.
   D. **Fill, Void or Cavity Material*** — **Sealant** — Min 1/2 in. thickness of fill material applied within annulus, flush with both surfaces of wall assembly. At the point contact location between duct and wallboard, a min 1/4 in. diam bead of sealant shall be applied at the wallboard/duct interface on both surfaces of wall assembly.
   Minnesota Mining & Mfg. Co.—CP-25 WB+
   E. **Containing Angles**—Min 16 gauge galv steel angles sized to lap duct to a min of 2 in. and lap wall surfaces a min of 1 in. Angles attached to duct on both sides of wall with min 1 in. long, No. 10 (or larger) sheet metal screws spaced a max of 6 in. from each end of duct and spaced a max of 6 in. OC.
*Bearing the UL Classification Marking

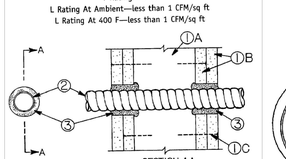
System No. W-L-7009
F Rating—1 and 2 Hr (See Item 1)
T Rating—0 Hr

System No. C-AJ-7019
F Rating — 1 Hr
T Rating — 1 Hr



1. **Floor or Wall Assembly** — Min 4-1/2 in. thick reinforced normal weight (140-150 pcf) concrete floor or min 4-3/4 in. thick reinforced normal weight concrete wall. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of opening is 2700 sq in. with a max dimension of 90 in.
   See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. **Through-Penetrant** — One steel duct to be installed within the firestop system with an annular space of 3 in. Duct to be rigidly supported on both sides of floor or wall assembly. The following types of through-penetrants may be used:
   A. **Steel Air Duct** — Min 26 gauge (0.021 in.) thick carbon steel duct having a max perimeter dimension of 216 in. and a max individual dimension of 84 in. Ducts with any dimension greater than 39 in., shall be provided with intermediate reinforcement in accordance with SMACNA HVAC Duct Construction Standards. Reinforcement to consist of min 1-1/2 in. by 1-1/2 in. by 1/8 in. thick transverse stiffening angles, approximately 2 in. less in length than the max dimension, screw attached 8 in. OC to the duct 3 in. beyond the top surface of the floor and both surfaces of the wall.
3. **Firestop System** — The firestop system shall consist of the following:
   A. **Packing Material** — Min 4 in. thickness of unfaced scrap duct wrap material or min 3 pcf mineral wool batt insulation firmly packed into opening as a permanent form between the bare steel duct and the periphery of the opening. Packing material to be recessed from the top surface of the floor or both surfaces of wall as required to accommodate the required thickness of fill material.
   B. **Fill, Void or Cavity Material*** — **Sealant** — Min 1/2 in. thickness of fill material applied within annulus, flush with both surfaces of wall assembly. At the point contact location between duct and wallboard, a min 1/4 in. diam bead of sealant shall be applied at the wallboard/duct interface on both surfaces of wall assembly.
   Minnesota Mining & Mfg. Co.—CP-25 WB+
   C. **Containing Angles**—Min 16 gauge galv steel angles sized to lap duct to a min of 2 in. and lap wall surfaces of a min of 1 in. Angles attached to duct on both sides of wall with min 1 in. long, No. 10 (or larger) sheet metal screws spaced a max of 6 in. from each end of duct and spaced a max of 6 in. OC.
*Bearing the UL Classification Marking

System No. W-L-1017
(Formerly System No. 328)
F Rating—1 and 2 Hr. (See Item 3)
T Rating—0 Hr
L Rating At Ambient—less than 1 CFM/sq ft
L Rating At 400 F—less than 1 CFM/sq ft

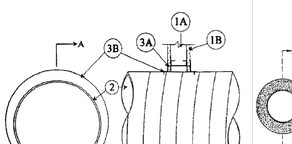


1. **Wall Assembly**—The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs—Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. The opening in the wall to accommodate the steel duct (Item 2) shall be framed on all sides using lengths of wood studs installed between the vertical studs and attached to the studs at each end. The framed opening in the wall shall be a min 1-1/4 in. to a max 3 in. wider and higher than the width and height of the steel duct. When steel studs are used and the width of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 in. wider and 4 in. higher than the dimensions of the steel duct such that, when the penetrating item is installed in the opening, a max 2 in. clearance is present between the steel duct and the framing in all four sides.
   B. Wallboard, Gypsum*—5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max area of opening is 188 sq in. with max dimensions of 14-1/2 in. for wood studs. Max area of opening is 325 sq in. with max dimensions of 25 in. for steel studs.
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. **Steel Duct**—Nom 24 by 12 in. (or smaller) No. 24 gauge (or heavier) steel duct to be installed vertically or horizontally within the firestop system. The annular space between the steel duct and the periphery of the framed opening shall be a min 1/4 in. to a max 2 in. Steel duct to be rigidly supported on both sides of wall assembly. The max dimensions of the steel duct is dependent upon the hourly rating of the wall and type of stud used as tabulated below.

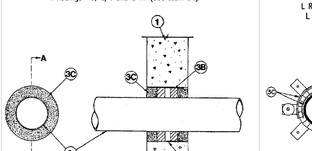
Fire Rating Of Wall	Steel	Type Of Stud	Max Dimension Of Steel Duct
1	Steel	Steel	24 in. by 12 in.
2	Steel	Steel	12 in. by 12 in.
1	Steel	Wood	12 in. by 12 in.
2	Steel	Wood	12 in. by 12 in.

3. **Firestop System**—The firestop system shall consist of the following:
   A. Packing Material—Min 2-1/2 in. thickness of min 6 pcf mineral wool batt insulation firmly packed between framing opening and steel duct as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material*—Sealant—In 2 hr fire-rated assemblies, min 1-1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. In 1 hr fire-rated assemblies, min 5/8 in. thickness of fill material applied within the annulus on both surfaces of wall.
   Specified Technologies Inc.—SpecSeal 100, 101,102 or 155 Sealant; CE 150, 151 or 155 Sealant and Pensil 300 Sealant
   C. Steel Retaining Angles—Min 2 by 2 by 0.030 in. (No. 22 gauge) steel angles cut to fit the contour of the steel duct with a 1 in. lap on both surfaces of wall. Angles secured to steel duct with min No. 8 by 3/4 in. long steel sheet metal screws spaced a max 4 in. OC.
*Bearing the UL Classification Marking

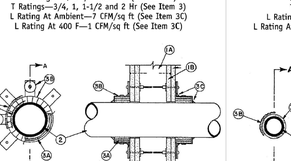
System No. W-L-7021
F Rating — 1 Hr
T Rating—0 Hr



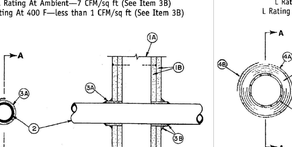
System No. W-J-1007
(Formerly System No. 257)
F Rating—2 Hr
T Rating—0, 1/4 and 2 Hr (See Item 3C)



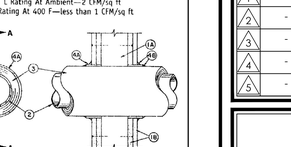
System No. W-L-2002
(Formerly System No. 148)
F Rating—1, 1-1/2 and 2 Hr (See Item 3)
T Rating—3/4, 1, 1-1/2 and 2 Hr (See Item 3)
L Rating At Ambient—7 CFM/sq ft (See Item 3C)
L Rating At 400 F—1 CFM/sq ft (See Item 3C)



System No. W-L-2003
(Formerly System No. 148)
F Rating—1 and 2 Hr (See Item 3)
T Rating—1 and 2 Hr (See Item 3)
L Rating At Ambient—7 CFM/sq ft (See Item 3B)
L Rating At 400 F—less than 1 CFM/sq ft (See Item 3B)



System No. W-L-5001
(Formerly System No. 147)
F Rating—1 and 2 Hr (See Item 1)
T Rating—3/4, 1 and 1-1/2 Hr (See Item 3)
L Rating At Ambient— 2 CFM/sq ft
L Rating At 400 F—less than 1 CFM/sq ft (See Item 3)

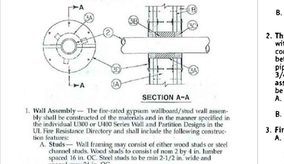


1. **Wall Assembly**—The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs—Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. The opening in the wall to accommodate the steel duct (Item 2) shall be framed on all sides using lengths of wood studs installed between the vertical studs and attached to the studs at each end. The framed opening in the wall shall be a min 1-1/4 in. to a max 3 in. wider and higher than the width and height of the steel duct. When steel studs are used and the width of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 in. wider and 4 in. higher than the dimensions of the steel duct such that, when the penetrating item is installed in the opening, a max 2 in. clearance is present between the steel duct and the framing in all four sides.
   B. Wallboard, Gypsum*—5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max area of opening is 188 sq in. with max dimensions of 14-1/2 in. for wood studs. Max area of opening is 325 sq in. with max dimensions of 25 in. for steel studs.
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. **Steel Duct**—Nom 24 by 12 in. (or smaller) No. 24 gauge (or heavier) steel duct to be installed vertically or horizontally within the firestop system. The annular space between the steel duct and the periphery of the framed opening shall be a min 1/4 in. to a max 2 in. Steel duct to be rigidly supported on both sides of wall assembly. The max dimensions of the steel duct is dependent upon the hourly rating of the wall and type of stud used as tabulated below.

Fire Rating Of Wall	Steel	Type Of Stud	Max Dimension Of Steel Duct
1	Steel	Steel	24 in. by 12 in.
2	Steel	Steel	12 in. by 12 in.
1	Steel	Wood	12 in. by 12 in.
2	Steel	Wood	12 in. by 12 in.

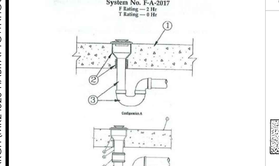
3. **Firestop System**—The firestop system shall consist of the following:
   A. Packing Material—Min 2-1/2 in. thickness of min 6 pcf mineral wool batt insulation firmly packed between framing opening and steel duct as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material*—Sealant—In 2 hr fire-rated assemblies, min 1-1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. In 1 hr fire-rated assemblies, min 5/8 in. thickness of fill material applied within the annulus on both surfaces of wall.
   Specified Technologies Inc.—SpecSeal 100, 101,102 or 155 Sealant; CE 150, 151 or 155 Sealant and Pensil 300 Sealant
   C. Steel Retaining Angles—Min 2 by 2 by 0.030 in. (No. 22 gauge) steel angles cut to fit the contour of the steel duct with a 1 in. lap on both surfaces of wall. Angles secured to steel duct with min No. 8 by 3/4 in. long steel sheet metal screws spaced a max 4 in. OC.
*Bearing the UL Classification Marking

System No. W-L-1005
(Formerly System No. 107)
F Rating — 2 Hr
T Rating — 0 Hr



1. **Wall Assembly**—The 1 and 2 hr fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs—Wall framing shall consist of steel channel studs to be min 3-1/2 in. wide and spaced max 24 in. OC. Additional 3-1/2 in. wide steel studs shall be used to completely frame opening.
   B. Wallboard, Gypsum*—Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. Max size of opening to be 1216 sq in. with a max dimension of 38 in.
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. **Through-Penetrant**—Nom 36 in. by 30 (or smaller) No. 24 gauge (or heavier) galv steel duct to be installed either concentrically or eccentrically within the firestop system. An annular space of min 1-in. (point contact) to max 2 in. is required within the firestop system. Steel duct to be rigidly supported on both sides of floor or wall assembly.
3. **Firestop System**—The details of the firestop system shall be as follows:
   A. Packing Material (Optional)—Polyethylene backer rod, mineral wool batt insulation or fiberglass batt insulation friction-fit into annular space for 2 hr rated wall assemblies only. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material (Item 3B).
   B. Fill, Void or Cavity Material*—Caulk—Min 5/8 in. thickness of fill material applied within annulus, flush with both surfaces of wall assembly. At the point contact location between duct and wallboard, a min 1/4 in. diam bead of sealant shall be applied at the wallboard/duct interface on both surfaces of wall assembly.
   Minnesota Mining & Mfg. Co.—CP-25 WB+
   C. Retaining Angles—Min 16 gauge galv steel angles sized to lap duct to a min of 2 in. and lap wall surfaces of a min of 1 in. Angles attached to duct on both sides of wall with min 1 in. long, No. 10 (or larger) sheet metal screws spaced a max of 6 in. from each end of duct and spaced a max of 6 in. OC.
*Bearing the UL Classification Marking

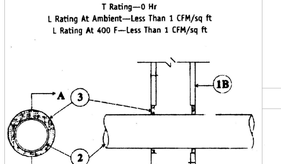
System No. F-A-2017
F Rating — 2 Hr
T Rating — 0 Hr



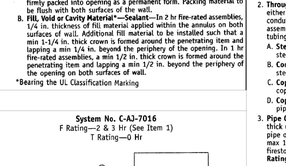
System No. W-L-7001
(Formerly System No. 607)
F Rating—1 Hr
T Rating—0 Hr

1. **Wall Assembly**—The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the Individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs—Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
   B. Wallboard, Gypsum*—Two layers of nom 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Designs. Max area of opening is 35.75 sq in. with max dimension of 11 in.
2. **Through Penetrants**—A max of five pipes or conduits to be installed within opening. Of the five through penetrants, only two of the pipes or conduits can have a nom diam greater than 1 in. The annular space between pipes or conduits shall be 1/2 in. The annular space between pipes or conduits and periphery of opening shall be min 1/4 in. to max 3/4 in. Pipe or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or conduits may be used:
   A. Steel Pipe—Nom 2 in. diam (or smaller) Schedule 5 (or heavier) steel pipe.
   B. Conduit—Nom 2 in. diam (or smaller) steel electrical metallic tubing or steel conduit.
3. **Firestop System**—The firestop system shall consist of the following:
   A. Metallic Sleeve—Min 6 in. diam (or smaller) steel sleeve, a min 1/2 in. beat of sealant (Item 3C) shall be applied around the perimeter of the opening. Nom 5 in. long rectangular shaped sleeve with min 2 in. wide retainer tabs fabricated from min 0.019 in. (No. 30 MSG) galv sheet steel in accordance with installation instructions supplied by sealant manufacturer. Steel sleeve secured to both sides of wall by means of 1-1/2 in. long Type G steel screws and fender washers spaced 2-3/4 in. OC.
   B. Packing Material—Min 4 in. thickness of min 6 pcf ceramic fiber insulation firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.
   C. Fill, Void or Cavity Material*—**Caulk**—Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Additional fill material to be installed such that a min 1/4 in. crown is formed around the penetrating items.
   Trenco, Inc.—Fyre Shield or Fyre Sil Sealant.
*Bearing the UL Classification Marking

System No. W-L-1062
F Rating—1 Hr
T Rating—0 Hr
L Rating At Ambient—Less Than 1 CFM/sq ft
L Rating At 400 F—Less Than 1 CFM/sq ft

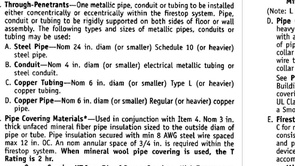


System No. W-L-1089
F Rating— 1 and 2 Hr (See Item 1)
T Rating—0 Hr



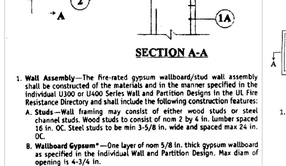
1. **Wall Assembly**—The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs—Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 3-5/8 in. wide and spaced max 24 in. OC.
   B. Wallboard, Gypsum*—One layer of nom 5/8 in. thick gypsum wallboard as specified in the Individual Wall and Partition Design. Max diam of opening is 4-3/4 in.
2. **Through Penetrants**—One metallic pipe, conduit or tubing to be installed within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be a min 1/4 in. to a max 3/8 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe—Nom 4 in. diam (or smaller) Schedule 5 (or heavier steel pipe.
   B. Iron Pipe—Nom 4 in. diam (or smaller) cast or ductile iron pipe.
   C. Conduit—Nom 4 in. diam (or smaller) electrical metallic tubing or steel conduit.
   D. Copper Tubing—Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe—Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.
3. **Fill, Void or Cavity Material***—**Caulk**—Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall.
   General Electric Co.—Pensil 100 Caulk.
   Specified Technologies Inc.—Pensil 100 Sealant and Pensil 300 Sealant.
*Bearing the UL Classification Marking

System No. W-J-5032
F Rating—2 Hr
T Rating—1 or 2 Hr (See Items 3 and 3A)



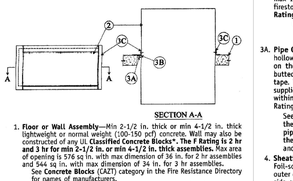
1. **Wall Assembly**—The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs—Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
   B. Wallboard, Gypsum*—Two layers of nom 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Designs. Max area of opening is 35.75 sq in. with max dimension of 11 in.
2. **Through Penetrants**—A max of five pipes or conduits to be installed within opening. Of the five through penetrants, only two of the pipes or conduits can have a nom diam greater than 1 in. The annular space between pipes or conduits shall be 1/2 in. The annular space between pipes or conduits and periphery of opening shall be min 1/4 in. to max 3/4 in. Pipe or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or conduits may be used:
   A. Steel Pipe—Nom 2 in. diam (or smaller) Schedule 5 (or heavier) steel pipe.
   B. Conduit—Nom 2 in. diam (or smaller) steel electrical metallic tubing or steel conduit.
3. **Firestop System**—The firestop system shall consist of the following:
   A. Metallic Sleeve—Min 6 in. diam (or smaller) steel sleeve, a min 1/2 in. beat of sealant (Item 3C) shall be applied around the perimeter of the opening. Nom 5 in. long rectangular shaped sleeve with min 2 in. wide retainer tabs fabricated from min 0.019 in. (No. 30 MSG) galv sheet steel in accordance with installation instructions supplied by sealant manufacturer. Steel sleeve secured to both sides of wall by means of 1-1/2 in. long Type G steel screws and fender washers spaced 2-3/4 in. OC.
   B. Packing Material—Min 4 in. thickness of min 6 pcf ceramic fiber insulation firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.
   C. Fill, Void or Cavity Material*—**Caulk**—Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Additional fill material to be installed such that a min 1/4 in. crown is formed around the penetrating items.
   Trenco, Inc.—Fyre Shield or Fyre Sil Sealant.
*Bearing the UL Classification Marking

System No. W-L-1020
(Formerly System No. 375)
F Rating—2 Hr
T Rating—1/2 Hr



1. **Wall Assembly**—The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs—Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 3-5/8 in. wide and spaced max 24 in. OC.
   B. Wallboard, Gypsum*—Two layers of nom 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max area of opening is 35.75 sq in. with max dimension of 11 in.
2. **Air Duct**—Prefabricated 24 MSG sheet metal air duct. Max cross sectional area of duct is 30 sq in. with max dimension of 10 in. A min 7/8 in. to 1-5/8 in. annular space is required within the firestop system. Air duct to be rigidly supported on both sides of wall assembly.
3. **Forming Material***—Min 2-1/2 in. thickness of min 3.5 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Forming material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
   Thermafiber LLC—Type SAF
4. **Fill, Void or Cavity Material***—**Sealant**—Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Dry mix material mixed with water at a rate of 2.1 parts dry mix to 1 lb part water by weight in accordance with the accompanying installation instructions.
   United States Gypsum Co.—Type FC
4A. **Fill, Void or Cavity Material***—Not Shown—Two component fill material used as an alternate to Item 4. Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Ready-mixed component mixed with accelerator component at a rate of 66 parts of ready-mixed component to 1 part of accelerator component by weight in accordance with the accompanying installation instructions.
   United States Gypsum Co.—Type RFC
*Bearing the UL Classification Marking

System No. C-AJ-7016
F Rating—2 & 1 Hr (See Item 1)
T Rating—0 Hr

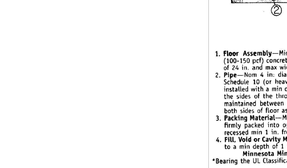


1. **Wall Assembly**—The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs—Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 3-5/8 in. wide and spaced max 24 in. OC.
   B. Wallboard, Gypsum*—Two layers of nom 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max area of opening is 35.75 sq in. with max dimension of 11 in.
2. **Through Penetrants**—A max of five pipes or conduits to be installed within opening. Of the five through penetrants, only two of the pipes or conduits can have a nom diam greater than 1 in. The annular space between pipes or conduits shall be 1/2 in. The annular space between pipes or conduits and periphery of opening shall be min 1/4 in. to max 3/4 in. Pipe or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe—Nom 2 in. diam (or smaller) Schedule 5 (or heavier) steel pipe.
   B. Conduit—Nom 2 in. diam (or smaller) steel electrical metallic tubing or steel conduit.
   C. Copper Tubing—Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
   D. Copper Pipe—Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
3. **Firestop System**—The firestop system shall consist of the following:
   A. Packing Material—In 2 hr fire-rated assemblies, min 2 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form on both sides of wall. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material. In 1 hr fire-rated assemblies, min 3-3/4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be flush with both surfaces of the wall.
   B. Fill, Void or Cavity Material*—**Sealant**—In 2 hr fire-rated assemblies, 1/4 in. thickness of fill material applied within the annulus on both surfaces of wall. Additional fill material to be installed such that a min 1/4 in. thick crown is formed around the penetrating item and lapping a min 1/4 in. beyond the periphery of the opening. In 1 hr fire-rated assemblies, a min 1/2 in. thick crown is formed around the penetrating item and lapping a min 1/2 in. beyond the periphery of the opening on both surfaces of wall.
*Bearing the UL Classification Marking

System No. C-AJ-7016
F Rating—2 & 1 Hr (See Item 1)
T Rating—0 Hr

1. **Wall Assembly**—The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs—Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 3-5/8 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of the opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 in. wider and 4 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing in all four sides.
   B. Wallboard Gypsum*—5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 24-5/8 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls.
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. **Through Penetrant**—One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and the periphery of opening shall be min 1/8 in. to max 1/2 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe—Nom 24 in. diam (or smaller) cast or ductile iron pipe.
   C. Conduit—Nom 4 in. diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.
   D. Copper Tubing—Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe—Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
3. **Firestop System**—The firestop system shall consist of the following:
   A. Packing Material—In 2 hr fire-rated assemblies, min 2 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form on both sides of wall. Packing material to be recessed from both surfaces of the wall as required to accommodate the required thickness of fill material. In 1 hr fire-rated assemblies, min 3-3/4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be flush with both surfaces of the wall.
   B. Fill, Void or Cavity Material*—**Sealant**—In 2 hr fire-rated assemblies, 1/4 in. thickness of fill material applied within the annulus on both surfaces of wall. Additional fill material to be installed such that a min 1/4 in. thick crown is formed around the penetrating item and lapping a min 1/4 in. beyond the periphery of the opening. In 1 hr fire-rated assemblies, a min 1/2 in. thick crown is formed around the penetrating item and lapping a min 1/2 in. beyond the periphery of the opening on both surfaces of wall.
*Bearing the UL Classification Marking

System No. C-AJ-7016
F Rating—2 & 1 Hr (See Item 1)
T Rating—0 Hr



1. **Wall Assembly**—The fire-rated gyps

BXUV.P522

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

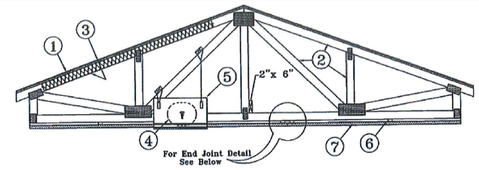
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

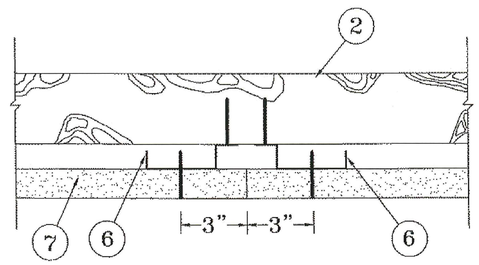
Design No. P522

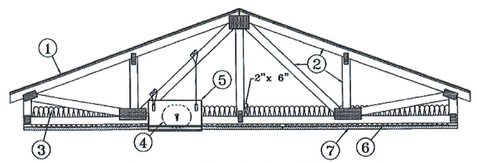
May 22, 2021

Unrestrained Assembly Rating — 1 Hr
Finish Rating — 25 Min (See Items 3 or 3A)
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

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







Alternate Insulation Placement

1. **Roofing System* —** Any UL Class A, B or C Roofing System (TGFU) or Prepared Roof Covering (TFWZ) acceptable for use over nom 15/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Nom 15/32 in. thick wood structural panels secured to trusses with No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Construction adhesive may be used with either the nails or staples.

2. **Trusses —** Pitched or parallel chord wood trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Truss members secured together with min. 0.0356 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approximately 7/8 in. centers with four rows of teeth per inch of plate width. Minimum parallel chord truss depth shall be 18 in. Where the truss intersects with the interior face of the exterior walls, the min truss depth shall be 5-1/4 in. with a min roof slope of 3/12 and a min. area in the plane of the truss of 21 sq/ft. Where the truss intersects with the interior face of the exterior walls, the min truss depth may be reduced to 3 in. if the batts and blankets (Item 3) are used as shown in the above illustration (Alternate Insulation Placement) and are firmly packed against the intersection of the bottom chords and the plywood sheathing.

3. **Batts and Blankets* —** (Optional) — Required when Item 6B is used — Glass fiber insulation, secured to the wood structural panels with staples spaced 12 in. OC or to the trusses with 0.090 in. diam galv steel wires spaced 12 in. OC. Any glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance, having a min density of 0.5 pcf. As an option, the insulation may be fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. When **Steel Framing Members** (Item 6B) are used, max 3-1/2 in. thick insulation shall be draped over the furring channels (Item 6Ba) and gypsum board ceiling membrane, and friction-fitted between trusses and Steel Framing Members (Item 6Bd). The finished rating has only been determined when the insulation is secured to the decking.

3A. **Fiber, Sprayed* —** As an alternate to Item 3 (not evaluated for use with Item 6B) — Any thickness of spray-applied cellulose insulation material, having a min density of 0.5 lb/ft^3, applied with water, over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Fiber, Sprayed is applied with moisture in accordance with the application instructions supplied with the product. The finish rating when Fiber Sprayed is used has not been determined. Alternate application method: The fiber is applied without water or adhesive in accordance with the application instructions supplied with a minimum density of 0.5 lb/ft^3 over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Alternate application method: The fiber is applied without water or adhesive to a nominal density of 3.5 lb/ft^3 behind netting (Item 9) stapled to the rafters. The netting is stapled at both lower edges of the rafters creating a cavity to accept the cellulose fiber.
U S GREENFIBER L L C — INS735, INS745, INS750LD, and SANCTUARY for use with wet or dry application. INSS510LD, INSS515LD, INSS541LD, INS735, INS765LD, and INS773LD are to be used for dry application only.

3B. **Foamed Plastic* —** (As an alternate to Item 3 or 3A, Not Shown) — Spray foam insulation applied directly to the underside of the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft^3 density, while maintaining a minimum 8-1/2 in. clearance between the spray foam insulation and the gypsum board (Item 7). When spray foam insulation is used, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) installed at 6 in. OC to allow for maximum 3 in. spacing off ends of the gypsum board joints. Gypsum board (Item 7) to be installed using 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5K) in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Not evaluated for use with Items 6A through 6F.
SES FOAM INC — Sucraseal

3C. **Cavity Insulation - Batts and Blankets* or Fiber, Sprayed* —** (As described above) in Items 3 and 3A — (For Use with Item 7B, Not Shown) — Min. 3-1/2 in thick with no limit on maximum thickness fitted in the concealed space, draped over the resilient channel (Item 6G)/gypsum board (Item 7B) ceiling membrane.

3D. **Foamed Plastic* —** (As alternate to Item 3, 3A, or 3B, Not Shown) — Spray foam insulation applied directly to the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft^3 or 2.0 lb/ft^3 density, depending on the product installed. When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) spaced maximum 3 in. away from gypsum butt joints. Gypsum board (Item 7) to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5H) in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Not evaluated for use with Items 6A through 6F.

BASF CORP — Enerfite® NM, Enertite® G, FE1788, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, and Walltite® HP+

3E. **Foamed Plastic* —** (As an alternate to Item 3, 3A, 3B, 3C, or 3D, Not Shown) — Spray foam insulation applied directly to the underside of the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 17 in. at a nominal 0.5 lb/ft^3 density, while maintaining a minimum 1-1/2 in. clearance between the spray foam insulation and the gypsum board (Item 7). When spray foam insulation is used, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) installed at 6 in. OC to allow for maximum 3 in. spacing off ends of the gypsum board joints. Gypsum board (Item 7) to be installed using 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5K) in the concealed space, no clearance is necessary between damper housing and spray foam insulation. Not evaluated for use with Items 6A through 6F.
SES FOAM INC — EasySeal.5

3F. **Foamed Plastic* —** (As alternate to Item 3 - not to be used in combination with any alternates to item 3) — Spray foam insulation applied directly to the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 11 in. at a nominal 1.0 lb/ft^3 - 2.5 lb/ft^3 density, while maintaining a minimum 7 in. clearance between the spray foam insulation and the gypsum board (Item 7). When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board spaced maximum 3 in. away from gypsum butt joints. Gypsum board to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5K) in the concealed space, no clearance is necessary between damper housing and spray foam insulation. Only for use with item 6 not evaluated for use with alternates to item 6.
CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

4. **Air Duct* —** Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.

5. **Ceiling Damper* —** Max nom area, 324 sq in. Max square size, 18 in. by 18 in. rectangular sizes not to exceed 324 sq in. with a max width of 18 in. Max damper height is 14 in. Installed in accordance with manufacturers installation instructions provided with the damper. Max damper openings not to exceed 162 sq in. per 100 sq ft of ceiling area.
C&S AIR PRODUCTS — Model RD-521

POTTORFF — Model CFD-S21

5A. **Alternate Ceiling Damper* —** Max nom area, 196 sq in. Max square size, 14 in. by 14 in. Rectangular sizes not to exceed 196 sq in. with a max width of 26 in. Max overall damper height is 7 in. Installed in accordance with the manufacturers installation instructions provided with the damper. Max damper openings not to exceed 98 sq in. per 100 sq ft of ceiling area.
C&S AIR PRODUCTS — Model RD-521-BT

POTTORFF — Model CFD-521-BT.

5B. **Alternate Ceiling Damper* —** Max nom area shall be 256 sq in. with the length not to exceed 24 in. and the width not to exceed 20 in. Max height of damper shall be 17 in. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521-IP, RD-521-NP

POTTORFF — Models CFD-521-IP, CFD-521-NP

5C. **Alternate Ceiling Damper* —** Ceiling damper & fan assembly. Max nom area shall be 75 sq in. with the length not to exceed 8-9/16 in. and the width not to exceed 8-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 38 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in

6. **Furring Channels —** Resilient channels formed of 25 MSG thick galv steel. Installed perpendicular to the trusses (Item 2), spaced a max of 16 in. OC when no insulation (Item 3 or 3A) is fitted in the concealed spaced, or a max of 12 in. OC when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane, or when insulation (Item 3B, 3D or 3E) is applied to the underside of the roofing system (Item 1). Two courses of resilient channel positioned 6 in. OC at wallboard butt-joints (3 in. from each end of wallboard). Channels oriented opposite at wallboard butt-joints. Channel splices overlapped 4 in. beneath wood trusses. Channels secured to each truss with 1-1/4 in. long Type S screws.

6A. **Steel Framing Members* —** (Not Shown) — As an alternate to Item 6, furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to trusses when no insulation (Items 3 or 3A) is fitted in the concealed space or 12 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane or 24 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane and a second layer of gypsum board is attached as described in Item 7 for steel framing members. Channels secured to trusses as described in Item 6Ab. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

b. **Steel Framing Members —** Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to alternating trusses with No. 8 by 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to alternating trusses with No. 8 by 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. Adjoining channels are overlapped as described in Item 6Aa. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

6B. **Steel Framing Members* —** (Not Shown) — As an alternate to Items 6 and 6A.
a. **Furring Channels —** Hat-shaped furring channels, 7/8 in. deep by 2-5/8 in. wide at the base and 1-1/4 in. wide at the face, formed from No. 25 ga. galv steel, spaced max 16 in. OC perpendicular to trusses and Cold Rolled Channels (Item 6Bb). Furring channels secured to Cold Rolled Channels at every intersection with a 1/2 in. pan head self-drilling screw through each furring channel leg. Ends of adjoining channels overlapped 4 in. and tied together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap. Supplemental furring channels at base layer and outer layer gypsum board butt joints are not required. Batts and Blankets draped over furring channels as described in Item 3. Two layers of gypsum board attached to furring channels as described in Item 7.

b. **Cold Rolled Channels —** 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to trusses, friction-fitted into the channel caddy on the Steel Framing Members (Item 6Bd). Adjoining lengths of cold rolled channels lapped min. 6 in. and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.

c. **Blocking —** Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 6 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the truss (Item 2) at the top and bottom of the blocking at each Steel Framing Member (Item 6Bd) location.

d. **Steel Framing Members* —** Hangers spaced 48 in. OC. max along truss, and secured to the Blocking (Item 6Bc) on alternating trusses with a single 5/16 in. by 2 in. hex head lag bolt or four #6 1-1/4 in. drywall screws through mounting hole(s) on the hanger bracket. The two 1/4 in. long steel teeth on the hanger are embedded in the side of the blocking. Hanger positioned on blocking and leveling bolt height adjusted such that furring channels are flush with bottom of trusses before gypsum board installation. Spring gauge of hanger chosen per manufacturer's instructions.
KINETICS NOISE CONTROL INC — Type ICW.

6C. **Steel Framing Members* —** (Not Shown) — As an alternate to Items 6, 6A and 6B.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep installed perpendicular to wood structural members. Channels spaced a max of 16 in. OC when no insulation (Item 3 or 3A) is fitted in the concealed space or a max of 12 in. OC when insulation (Item 3 or 3A) is fitted in the concealed space. Channels secured to trusses as described in Item 6Cb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire near each end of overlap.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Ca) to trusses (Item 2). Clips secured to the bottom chord of each truss (48 in. OC) with one No. 8 by 2-1/2 in. long coarse drywall screw through center grommet. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item 6Ca. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.
PLITEQ INC — Type Genie Clip

6D. **Steel Framing Members* —** (Not Shown) — As an alternate to Items 6, 6A, 6B and 6C.
a. **Main runners —** Installed perpendicular to trusses — Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners hung a min of 2 in. from bottom chord of trusses with 12 SWG galv steel wire. Wires located a max of 48 in. OC.

b. **Cross tees or channels —** Nom 4 ft long, 15/16 in. or 1-1/2 in. wide face or cross channels, nom 4 ft long, 1-1/2 wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or channels used at 8 in. from each side of butted gypsum board end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.

c. **Wall angles or channels —** Used to support steel framing member ends and for screw-attachment of the gypsum wallboard — Min 0.016 in. thick painted or galvanized steel angle with 1 in. legs or min. 0.016 in. thick painted or galvanized steel channel with a 1 by 1-1/2 by 1 in. profile, attached to walls at perimeter of ceiling with fasteners 16 in. OC.
CGC INC — Type DGL or RX

USG INTERIORS LLC — Type DGL or RX

6E. **Alternate Steel Framing Members* —** (Not Shown) — As an alternate to items 6, 6A, 6B, and 6C, 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 16 in OC, perpendicular to trusses. When insulation, Items 3 or 3A is used, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to joists as described in Item b.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to the wood trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the trusses with one 2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as described in Item 7.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6F. **Steel Framing Members* —** (Not Shown) — As an alternate to Items 6 through 6E- Not for use with Items 3 or 3A. Main runners nom 12 ft long, spaced 72 in. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. OC. The main runners and cross tees may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.
USG INTERIORS LLC — Type DGL or RX

6G. **Resilient Channels —** For Use With Item 7B - Formed from min 25 MSG galv steel installed perpendicular to trusses and spaced 16 in. OC. Channels secured to each truss with 1-5/8 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint. Additional channels shall extend min 6 in. beyond each side edge of panel. Insulation, Item 3C is applied over the resilient channel/gypsum panel ceiling membrane.

6H. **Alternate Steel Framing Members* —** (Not Shown) — As an alternate to items 6 through 6G, furring channels and Steel Framing Members as described below.
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-1/2 in. wide by 7/8 in deep, spaced 16 in OC, perpendicular to trusses. When insulation, Items 3 or 3A is used, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to joists as described in Item b.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to the wood trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the trusses with one 2-1/2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as described in Item 7.
REGUPOL AMERICA — Type SonusClip

7. **Gypsum Board* —** One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to trusses. Attached to the resilient channels using 1 in. long Type S bugle-head screws. Screws spaced a max of 12 in. OC along butted end-joints and in the field when no insulation (Item 3 or 3A) is fitted in the concealed spaced, or a max of 8 in. OC along butted end-joints and in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane. When insulation (Item 3B, 3D or 3E) is installed in the concealed space, spray-applied to the underside of the roofing system (Item 1), screws are spaced a max of 8 in. OC along resilient channels, fasteners are increased in length to 1-1/4 in. and gypsum board butt joints shall be staggered min. 2 ft within the assembly, and occur between the main furring channels.
When **Steel Framing Members*** (Item 6A or 6C) are used, sheets installed with long dimension perpendicular to furring channels and side joints of sheet located beneath trusses. Gypsum board screws are driven through channel spaced 12 in. OC in the field when no insulation (Item 3 or 3A) is fitted in the concealed space, or 8 in. OC in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane. Gypsum board butt joints shall be staggered min. 2 ft within the assembly, and occur between the main furring channels. At the gypsum board butt joints, each end of the gypsum board shall be supported by a single length of furring channel equal to the width of the wallboard plus 6 in. on each end. The furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to the trusses with one clip at each end of the channel. Screw spacing along the butt joint to attach the gypsum board to the furring channels shall be 8 in. OC. Second (outer) layer of gypsum board required when furring channels (Item 6A, a) are spaced 24 in. OC and insulation is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane. Outer layer of gypsum board attached to the furring channels using 1-5/8 in. long Type S bugle-head screws spaced 8 in. OC at butted joints and 12 in. OC in the field. Butted end joints of outer layer to be offset a minimum of 8 in. from base layer end joints. Butted side joints of outer layer to be offset minimum 18 in. from butted side joints of base layer.

When **Steel Framing Members** (Item 6B) are used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring channels (Item 6Ba). Base layer attached to the furring channels using 1 in. long Type S bugle head steel screws spaced 8 in. OC along butted end joints and 12 in. OC in the field of the board. Butted end joints centered on the continuous furring channels. Butted base layer end joints to be offset a min of 16 in. in adjacent courses. Outer layer attached to the furring channels using 1-5/8 in. long Type S bugle head steel screws spaced 8 in. OC at butted end joints and 12 in. OC in the field. Butted end joints centered on the continuous furring channels and offset a min of 16 in. from butted end joints of base layer. Butted side joints of outer layer to be offset min 16 in. from butted side joints of base layer.

When **Steel Framing Members** (Item 6C) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 72 in. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end, spaced approximately 2 in. in from joint. Screw spacing along the gypsum board butt joint shall be 8 in. OC. Butt joint furring channels shall be attached with a RESILMOUNT Sound Isolation Clip secured to underside of every truss that is located over the butt joint. Over all Gypsum Board side joints, approximately 20 in. lengths of furring channel shall be installed parallel to trusses (Item 2) between main furring channels. Side joint furring channels shall be attached to underside of the joist with RESILMOUNT Sound Isolation Clips - located approximately 2 in. from each end of the approximate 20 in. 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.

When **Steel Framing Members** (Item 6D) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, an additional single length of furring channel shall be installed and be spaced approximately 3 in. from the butt joint (6 in. from the continuous furring channels) to support the floating end of the gypsum board. Each of these shorter sections of furring channel shall extend one truss beyond the width of the gypsum panel and be attached to the adjacent trusses with one SonusClip at every truss involved with the butt joint.

CGC INC — Types C, IP-X2, IPC-AR

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

7A. **Gypsum Board* —** For use with Steel Framing Members (Item 6D) when Batts and Blankets* (Item 3) are not used - One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to the main runners. Gypsum board fastened to each cross tee or channel with five wallboard screws, with one screw located at the midspan of the cross tee or channel, one screw located 12 in. from and on each side of the cross tee or channel mid span and one screw located 1-1/2 in. from each gypsum board side joint. Except at wallboard end joints, wallboard screws shall be located on alternating sides of cross tee flange. At gypsum board end joints, gypsum board screws shall be located 1/2 in. from the joint. Gypsum board fastened to main runners with wallboard screws 1/2 in. from side joints, midway between intersections with cross tees or channels (16 in. OC). End joints of adjacent gypsum board sheets shall be staggered not less than 32 in. Gypsum board sheets screw attached to leg of wall angle with wallboard screws spaced 12 in. OC. Joints treated as described in Item 7. For use with **Steel Framing Members*** (Item 6D) when **Batts and Blankets*** (Item 3) are used - Ratings limited to 1 Hour - 5/8 in. thick, 4 ft wide; installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Fastened to cross tees with 1 in. long steel gypsum board screws spaced 8 in. OC in the field and 8 in. OC along end joints. Fastened to main runners with 1 in. long gypsum board screws spaced midway between cross tees. Screws along sides and ends of boards spaced 3/8 to 1/2 in. from board edge. End joints of the sheets shall be staggered with spacing between joints on adjacent boards not less than 4 ft OC.
CGC INC — Type C or IP-X2

UNITED STATES GYPSUM CO — Type C or IP-X2

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Type C or IP-X2

7B. **Gypsum Board* —** For use with Items 3C and 6G. Nom 5/8 in. thick, 48 in. wide gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 8 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. Finish Rating with this ceiling system is 20 min.
CGC INC — Type ULIX

UNITED STATES GYPSUM CO — Type ULIX

8. **Finishing System —** (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board. **Alternate Ceiling Membrane** — Not Shown.

9. **Netting —** Fibrous, woven netting material fastened to underside of each joist with staples, with side joints overlapped.

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

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from UL" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "© 2021 UL LLC"

No:	REVISIONS
1	-
2	-
3	-
4	-
5	-

CONSTRUCTION DOCUMENTS FOR
HABITAT FOR HUMANITY
4-UNIT TOWNHOUSE
FORT MYERS, FLORIDA
(SEE COVER SHEET FOR FULL BUILDING ADDRESS)

MK Architecture LLC
8200 College Parkway, Suite 101
Fort Myers, Florida 33919
239.482.2121
AR10564 ID6790
www.MK-ARCH.com

MICHAEL K. SHEELEY
REG. # 0010564
STATE OF FLORIDA
MICHAEL K. SHEELEY
AR0010564
REGISTERED ARCHITECT

JOB:	MK24020
DATE:	1-16-25
DRWN. BY:	SLVB
CAD REF:	UL

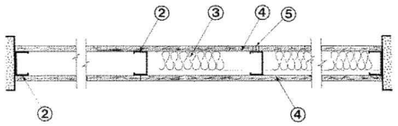
SHEET
A7.2

MK Architecture, LLC hereby reserves its common law copyright and other property rights in these plans, designs, arrangements and ideas. These ideas, plans and designs are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party without first obtaining the express written permission from MK Architecture, LLC. Contractors shall verify and be responsible for all dimensions and conditions of the job. MK Architecture, LLC shall be notified in writing of any variations or discrepancies from the dimensions, conditions and specifications shown by these drawings. All construction shall be in accordance with the current Florida Building Code.

C:\USERS\USER\MK ARCHITECTURE DROPBOX\MK DESIGN FILES\ACAD\DWGS\MK ARCH\MK24020-HABITAT TOWNHOUSES-LEE COUNTY\~COMMON\MK24020-A7.2-UL.DWG \ February 11, 2025

Design No. U465

Nonbearing Wall Rating — 1 HR.



1. Floor and Ceiling Runners — (not shown) — Channel shaped runners, 3-5/8 in. wide (min), 1-1/4 in. legs, formed from min No. 25 MSG galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
2. Steel Studs — Channel shaped, 3-5/8 in. wide (min), 1-1/4 in. legs, 3/8 in. folded back returns, formed from min No. 25 MSG galv steel spaced 24 in. OC max.
3. Batts and Blankets* — (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity.
See Batts and Blankets (BZJZ) category for names of Classified companies.
3A. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 3) — 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 AD100 hot melt adhesive at a nominal ratio of one part adhesive to 6.6 parts fiber to completely 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)
3B. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 3) and Item 3A - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
NU-WOOL CO INC — Cellulose Insulation
4. Gypsum Board* — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When attached to item 6 (resilient channels) or 6A (furring channels), wallboard is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.
AMERICAN GYPSUM CO — Types AG-C, AGX-1
BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1.
CANADIAN GYPSUM COMPANY — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.
CERTAINTEED GYPSUM INC —Types 1, EGRG, ProRoc Type X, ProRoc Type C.
CERTAINTEED GYPSUM CANADA INC — ProRoc Type C, ProRoc Type X or ProRoc Type Abuse-Resistant.
FEDERAL GYPSUM CO — PlasterRock
G-P GYPSUM CORP, SUB OF GEORGIA-PACIFIC CORP — Types 5, 9, C, DAP, DD, DA, DGG, DS, GPFS6.
LAFARGE NORTH AMERICA INC — Types LGFC2, LGFC2A, LGFC6, LGFC6A, LGFC-C, LGFC-C/A.
NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C, PG-11 or PG-9.
PANEL REY S A — Type PRX.
SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1
TEMPLE-INLAND FOREST PRODUCTS CORP — Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, TG-C, GreenGlas Type X.
UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.
USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.
4A. Gypsum Board* — (As alternate to Item 4) - Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally.
CANADIAN GYPSUM COMPANY — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.
CERTAINTEED GYPSUM INC — ProRoc Type X, ProRoc Type C.
CERTAINTEED GYPSUM CANADA INC — ProRoc Type X, ProRoc Type C.
G-P GYPSUM CORP, SUB OF GEORGIA-PACIFIC CORP — Types DAP, DGG.
UNITED STATES GYPSUM CO — T ype AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.
USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.
4B. Gypsum Board* — (As an alternate to Items 4 or 4A) — Nom 3/4 in. thick, 4 ft wide, installed as described in Item 4A with screw length increased to 1-1/4 in.
CANADIAN GYPSUM COMPANY — Types AR, IP-AR.
UNITED STATES GYPSUM CO — Types AR, IP-AR.
USG MEXICO S A DE C V — Types AR, IP-AR.
4C. Gypsum Board* — As an alternate to Items 4, 4A, and 4B - Nom. 5/8 in. thick gypsum panels, with square edges, applied horizontally. Gypsum panels fastened to framing with 1 in. long bugle head steel screws spaced a max 8 in. OC, with last 2 screws 3/4 in. and 4 in. from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs on interior walls need not be staggered.
TEMPLE-INLAND FOREST PRODUCTS CORP — GreenGlas Type X.
5. Joint Tape and Compound — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.

6A. Steel Framing Members (Not Shown)* — As an alternate to Item 3, furring channels and resilient sound isolation clip as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel.
b. Steel Framing Members* — Used to attach furring channels (Item a) to studs (Item 1). Clips spaced 48 in. OC., and secured to studs with 1-5/8 in. wafer or hex head Type S steel screw through the center grommet. Furring channels are friction fitted into clips.
PAC INTERNATIONAL INC — Type RSIC-1.
6B. Steel Framing Members* — Optional - Not Shown - Used as an alternate method to attach resilient channels (Item 6). Clips attached at each intersection of the resilient channel and the steel studs (Item 2). Resilient channels are friction fitted into clips, and then clips are secured to the wood stud with min. 1 in. long Type S-12 panhead steel screws through the center hole of the clip and the resilient channel flange.
KEENE BUILDING PRODUCTS CO INC — Type RC Assurance.
7. Wall and Partition Facings and Accessories* — (Optional, Not shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
QUIET SOLUTION INC — Type QuietRock QR-510.
*Bearing the UL Classification Mark

C:\USERS\USER\MK ARCHITECTURE DROPBOX\MK DESIGN FILES\ACAD\DWGS\MK ARCH\MK24020-HABITAT TOWNHOUSES-LEE COUNTY---COMMON\MK24020-A7.3-UL.DWG \ February 11, 2025

MK Architecture, LLC hereby reserves its common law copyright and other property rights in these plans, designs, arrangements and ideas. These ideas, plans and designs are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to any third party without first obtaining the express written permission from MK Architecture, LLC. Contractors shall verify and be responsible for all dimensions and conditions of the job. MK Architecture, LLC shall be notified in writing of any variations or discrepancies from the dimensions, conditions and specifications shown by these drawings. All construction shall be in accordance with the current Florida Building Code.

No:	REVISIONS
1	-
2	-
3	-
4	-
5	-

CONSTRUCTION DOCUMENTS FOR
HABITAT FOR HUMANITY
4-UNIT TOWNHOUSE
FORT MYERS, FLORIDA
(SEE COVER SHEET FOR FULL BUILDING ADDRESS)

MK Architecture LLC
8200 College Parkway, Suite 101
Fort Myers, Florida 33919
239.482.2121
AR10564 ID6790
www.MK-ARCH.com

MICHAEL K. SHEELEY
REG. # 0010564
STATE OF FLORIDA
MICHAEL K. SHEELEY
AR0010564
REGISTERED ARCHITECT

JOB:	MK24020
DATE:	2-7-25
DRWN. BY:	SLVB
CAD REF:	UL

SHEET
A7.3