CLEARWATER HOUSING AUTHORITY

PERMIT COMMENTS

CONTRACT DRAWINGS FOR THE CONSTRUCTION OF

BARBEE TOWERS MAIL STRUCTURE & FIRST FLOOR MODIFICATIONS

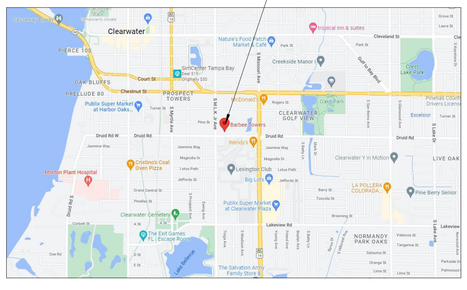
CLEARWATER HOUSING AUTHORITY

1100 DRUID ROAD
CLEARWATER, FL 33756

01/22/2024

C&S PROJECT NUMBER: Y97.002.001

PROJECT LOCATION



NORTH

LOCATION MAP

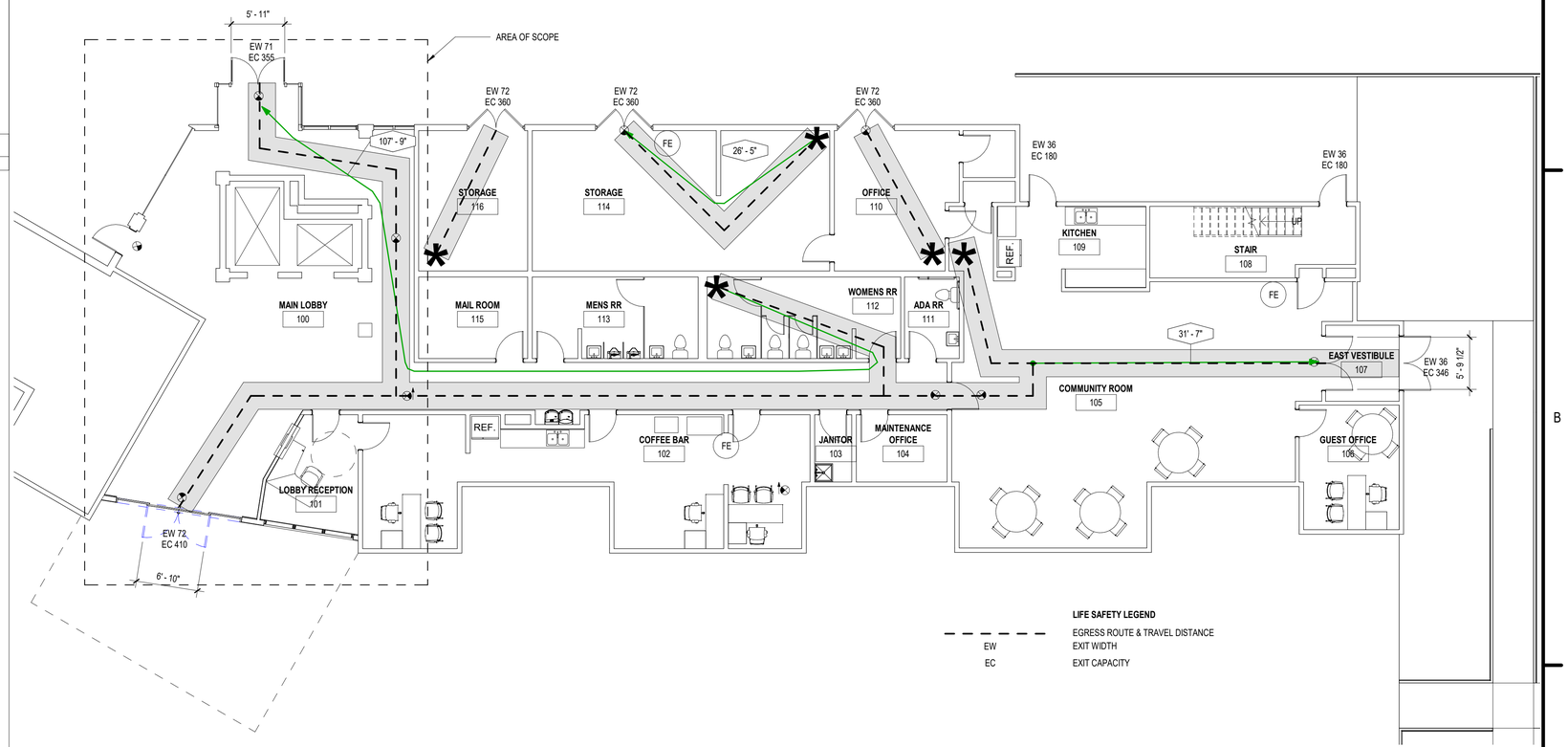
DRAWING LIST	
G-001	COVER SHEET
S-001	GENERAL NOTES
S-101	STRUCTURAL PLANS
S-501	STRUCTURAL DETAILS
A-001	SYMBOLS, ABBREVIATIONS, LEGENDS, AND DETAILS
LS-101	LIFE SAFETY
A-101	LEVEL 01 - LOBBY RENOVATION
A-102	LEVEL 01 - WINDOW DETAIL
A-108	MAIL STRUCTURE - PLANS
A-109	MAIL STRUCTURE - ROOF PLAN
A-501	MAIL STRUCTURE - ELEVATION AND DETAILS
M-001	LEGEND, ABBREVIATIONS AND GENERAL NOTES
M-101	MECHANICAL WORK PLAN
M-501	MINISPLIT MOUNTING DETAIL & AHRI INFORMATION
E-001	LEGEND, ABBREVIATIONS AND GENERAL NOTES
E-101	LOBBY - ELECTRICAL NEW WORK PLAN
E-102	MAIL STRUCTURE - ELECTRICAL NEW WORK PLAN

G-001

2023 FLORIDA BUILDING CODE, EXSITING BUILDING - CODE ANALYSIS - LOBBY AREA	
TYPE OF CONSTRUCTION:	II
SPRINKLERED:	YES
OCCUPANCY CLASSIFICATION:	B (BUSINESS)
OCCUPANCY COUNT (BUSINESS - 150 SQ FT):	5188 SQ FT/150 = 36 PERSONS
ALTERATION:	LEVEL 2
TOTAL PROJECT AREA:	1700 SF
TRAVEL DISTANCE:	108' (UNDER 250', COMPLIES)
DEAD END AREA:	32' (UNDER 35', COMPLIES)

C1 CODE COMPLIANCE REVIEW - LOBBY AREA

SCALE: 12" = 1'-0"



A2 LEVEL 01 - LIFE SAFETY

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

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RICHARD C. SWISHER
008618

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1100 DRUID ROAD
CLEARWATER, FL 33756

MARK	DATE	DESCRIPTION
1	1/22/2024	PERMIT COMMENTS

REVISIONS

PROJECT NO:	Y97.002.001
DATE:	01/22/2024
DRAWN BY:	M.WOLFSBERG
DESIGNED BY:	P.TAGGART
CHECKED BY:	R.SWISHER

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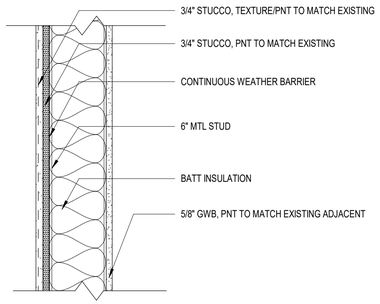
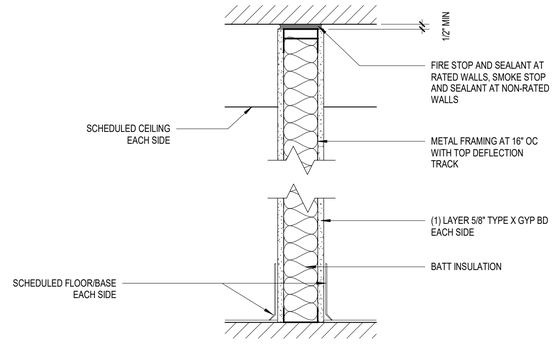
LIFE SAFETY

LS-101 1



EXTERIOR WALL AT ENTRY



MA

TYPE	MATERIAL	DEPTH	STUD	FIRE RATING	UNBRACED HEIGHT	DESCRIPTION
MA-3	GWB	4-7/8"	3 5/8"	-	-	-

B1 WALL TYPES
SCALE: 1 1/2" = 1'-0"

PRODUCT APPROVAL					
MANUFACTURER	PRODUCT CATEGORY	APPROVAL NUMBER	PRODUCT MODEL/NAME	SERIES	EXPIRATION DATE
STANLEY	EXTERIOR SLIDING DOOR	NOA 22-1207.04	DURA-STORM BI-PARTING DOOR	2000	04/04/2028
CGI COMMERCIAL	STOREFRONT	FL 261/NOA 20-0406.03	ALUMINUM STOREFRONT SYSTEM L.M.I	SS-3500	05/26/2026

A1 FLORIDA PRODUCT APPROVAL AT ENTRY
SCALE: NOT TO SCALE

ARCHITECTURAL COORDINATION NOTES

1. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO START OF WORK.
2. ANY DRAWINGS IN THIS SET ARE FOR ARCHITECTURAL DETAILING ONLY, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS MAY VARY FROM WHAT IS ILLUSTRATED HERE. HOWEVER, THEY DO REPRESENT THE CONSULTANT'S DESIGN INTENT. IN THE CASE OF A CONFLICT, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY TO COORDINATE THE DESIGN. THE ARCHITECT HAS MADE EVERY EFFORT TO COORDINATE ALL RELATED TRADES AND IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL CONTRACTOR (AS A PART OF THEIR BASE BID) TO THOROUGHLY REVIEW THESE DOCUMENTS BEFORE WORK IS TO BEGIN.
3. ALL ELEVATIONS NOTED ON ANY DRAWINGS IN THIS SET ARE RELATIVE TO THE TOP OF THE FINISH FLOOR SLAB DESIGNATED ASSUMED ELEVATION 00'-0", UNLESS NOTED OTHERWISE.
4. ALL DIMENSIONS ON ANY DRAWINGS IN THIS SET ARE PLUS OR MINUS 1/8" (APPROXIMATELY). CONTRACTOR SHALL FIELD VERIFY CONDITIONS AND DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO STARTING THE WORK.
5. LARGER DETAILS TAKE PRIORITY OVER SMALL DETAILS, UNLESS NOTED ELSEWHERE IN THE DOCUMENTS. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CONFORMANCE AND MUST PROVIDE ADEQUATE DOCUMENTATION FOR ALL REQUIRED RIGGING SYSTEMS. GENERAL CONTRACTOR TO PROVIDE AND INSTALL HIDDEN BACK BLOCKING FOR ALL WALL FIXTURES, SHELVING, AND ANY OWNER FURNISHED ITEMS THAT REQUIRE WALL STABILITY. FIELD VERIFY ALL LOCATIONS FOR FUNCTIONS AND PROPER ANCHORING.
6. WRITTEN DIMENSIONS ON ANY DRAWINGS IN THIS SET SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. GENERAL CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE. THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS.

NOTATION CLARIFICATIONS

GENERAL NOTATIONS MAY OR MAY NOT SPECIFICALLY IDENTIFY EACH ELEMENT OF THE DETAIL(S) DRAWN, BUT THE LACK OF NOTATIONS DOES NOT ALLEVIATE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT IN ACCORDANCE TO THE DESIGN-INTENT AS GRAPHICALLY ILLUSTRATED ON THE DRAWINGS. SHOULD THE GENERAL CONTRACTOR OR ANY OF THE QUALIFIED SUB-CONTRACTORS REQUIRE ADDITIONAL SCOPE CLARIFICATIONS, THEN THE ARCHITECT SHOULD BE NOTIFIED TO PROVIDE CLARIFICATION, OTHERWISE IT WILL BE UNDERSTOOD THAT THE GRAPHICAL REPRESENTATION IS CLEAR AS-DRAWN.

C3 GENERAL NOTES AND CLARIFICATIONS
SCALE: NOT TO SCALE

MEANS AND METHODS

THE GENERAL CONTRACTOR (G.C.) AND ALL SUB-CONTRACTORS SHALL EXECUTE THE DESIGN-INTENT ILLUSTRATED (EVEN IF THE DESIGN-INTENT IS NOT FULLY DETAILED) ON THESE DOCUMENTS WITHOUT EXCEPTION.

CONSTRUCTION METHODOLOGY ALSO KNOWN AS "MEANS AND METHODS" SHALL BE THE G.C. RESPONSIBILITY AND MAY BE DETERMINED AS JOB CONDITIONS DICTATE. IT IS UNDERSTOOD THAT THE ARCHITECT WILL NOT PROVIDE THE "MEANS AND METHODS" OF CONSTRUCTION WHICH WILL BE THE SOLE RESPONSIBILITY OF THE G.C. BASED UPON HIS OR HER CONSTRUCTION EXPERIENCE AND ABILITY.

THE DEFINITION FOR "MEANS AND METHODS" IS AS FOLLOWS:
A MEANS OR MANNER OF PROCEDURE, SPECIFICALLY A REGULAR AND SYSTEMATIC WAY OF ACCOMPLISHING CONSTRUCTION, INCLUDING PROCUREMENT, CHARACTERISTICS OF A PARTICULAR DISCIPLINE, AMOUNT OF LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO IMPLEMENT THE TECHNIQUE(S) ADOPTED BY THE G.C. TO PERFORM WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

B3 MEANS AND METHODS
SCALE: NOT TO SCALE

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
0000	STRUCTURAL GRID		LEVEL REFERENCE
SIM A1 A-101	EXTERIOR ELEVATION	A1 / A-101	VIEW REFERENCE
SIM A1 A-101	INTERIOR ELEVATION	ROOM NAME 101 150 SF	ROOM TAG
SIM A1 A-101	BUILDING SECTION	1A	WALL TAG
SIM A1 A-101	WALL SECTION	101	DOOR TAG
SIM A1 A-101	DETAIL CALLOUT	A	WINDOW TAG
		1	REVISION TAG
			STRUCTURAL GRID LINE
			FINISHED SURFACE LINE
			DEMOLITION LINE
			OVERHEAD/HIDDEN LINE

A3 SYMBOLS LEGEND
SCALE: NOT TO SCALE

A

AFF	ABOVE FINISHED FLOOR
ACT	ACOUSTICAL CEILING TILE
AMP	ACOUSTICAL METAL PANEL
ALUM	ALUMINUM
L	ANGLE

B

BLK	BLOCK
BD	BOARD
BOT	BOTTOM
BLDG	BUILDING
BL	BUILDING LINE

C

CPT	CARPET TILE
CLKG	CAULK(ING)
CLG	CEILING
CBB	CEMENTITIOUS BACKER BOARD
CTR	CENTER
CL	CENTER LINE
CT	CERAMIC TILE
CH BD	CHALKBOARD
CLR	CLEAR / CLEARANCE
CLO	CLOSET
COL	COLUMN
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONT	CONTINUOUS
CJ	CONTROL JOINT
CG	CORNER GUARD
CORR	CORRIDOR
CTR	COUNTER
CRS	COURSE(S)
CRN	CROWN

D

DEMO	DEMOLISH / DEMOLITION
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DN	DOWN
DWG	DRAWING
DF	DRINKING FOUNTAIN

E

EA	EACH
ELEC	ELECTRIC
EWC	ELECTRIC WATER COOLER
EL	ELEVATION
ELEV	ELEVATOR
ENCL	ENCLOSURE
ENTR	ENTRANCE
EQ	EQUAL
EQUIP	EQUIPMENT
EXH	EXHAUST
EXIST	EXISTING
ETR	EXISTING TO REMAIN
EXP	EXPANSION
EJ	EXPANSION JOINT
EXP	EXPOSED
EXT	EXTERIOR

F

FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FOW	FACE OF WALL
F/F	FACE TO FACE
FT	FEET/FOOT
FRP	FIBER REINFORCED POLYESTER
FGL	FIBERGLASS
FIN	FINISH(ED)
FF	FINISH FLOOR
FIN GR	FINISH GRADE
FFL	FINISHED FLOOR
FA	FIRE ALARM
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FP	FIRE PROTECTION
FRT	FIRE RETARDANT
FP	FIREPROOF
FIXT	FIXTURE
FLASH	FLASHING
FLR	FLOOR
FD	FLOOR DRAIN
FTG	FOOTING
FDTN	FOUNDATION
FURN	FURNISH
FBO	FURNISHED BY OTHERS
FURG	FURRED(ING)

G

GA	GAGE / GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GL	GLASS
GL BLK	GLASS BLOCK
GB	GRAB BAR
GRL	GRILLE
GWB	GYPSUM BOARD

H

HCP	HANDICAPPED
HNDRL	HANDRAIL
HDWD	HARDWOOD
HT	HEIGHT
HP	HIGH POINT
HM	HOLLOW METAL

I

IRWC	IMPACT RESISTANT WALL COVERING
ID	INSIDE DIAMETER
INSUL	INSULATION / INSULATED
INT	INTERIOR

J

JAN CL	JANITOR'S CLOSET

K

KD	KNOCKDOWN

L

LAM	LAMINATE
LAV	LAVATORY
L	LENGTH / LONG
LF	LINEAL FEET
LG	LAMINATED GLASS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LPT	LOW POINT

M

MFR	MANUFACTURER
MO	MASONRY OPENING
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MTL	METAL
MEZZ	MEZZANINE
MIN	MINIMUM

N

NOM	NOMINAL
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE

O

OC	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
OD	OUTSIDE DIAMETER
OH	OVERHEAD

P

PT	PAINT
PTD	PAPER TOWEL DISPENSER
PBD	PARTICLE BOARD
PTN	PARTITION
PLAS	PLASTER
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
POL	POLISHED
PVC	POLYVINYL CHLORIDE
PT	PRESSURE TREATED

Q

QT	QUARRY TILE
QTZ	QUARTZ

R

R	RADIUS
REINF	REINFORCE
REQD	REQUIRED
RF	RESILIENT FLOORING
REV	REVISION / REVISED
R	RISER
RD	ROOF DRAIN
RL	ROOF LEADER
RTU	ROOF TOP UNIT
RM	ROOM
RO	ROUGH OPENING
RBR	RUBBER
RB	RUBBER BASE

S

SCH	SCHEDULE (D)
SLNT	SEALANT
SLR	SEALER
SECT	SECTION
SHTHG	SHEATHING
SIM	SIMILAR
SD	SOAP DISPENSER
SAFB	SOUND ATTENUATION FIBERGLASS BATT
SPEC	SPECIFICATION
SF	SQUARE FEET
STN	STAIN
SS	SOLID SURFACE
SST	STAINLESS STEEL
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYS	SYSTEM

T

TK BD	TACK BOARD
TMPD GL	TEMPERED GLASS
TER	TERRAZZO
THK	THICKNESS
THRES	THRESHOLD
TL	TILE
TPTN	TOILET PARTITION
T&B	TOP AND BOTTOM
TO	TOP OF
TOS	TOP OF STEEL
TOW	TOP OF WALL
T&G	TONGUE AND GROOVE
T	TREAD(S)
TYP	TYPICAL

U

UNFIN	UNFINISHED
UON	UNLESS OTHERWISE NOTED

V

VB	VAPOR BARRIER
VR	VAPOR RETARDER
VTR	VENT THROUGH ROOF
VIF	VERIFY IN FIELD
VERT	VERTICAL
VEST	VESTIBULE
VCT	VINYL COMPOSITION TILE
VWB	VINYL WALL BASE
VWC	VINYL WALL COVERING
VP	VISION PANEL

W

WSCT	WAINSCOT
W CAB	WALL CABINET
WC	WATER CLOSET
W	WIDE
WG	WIRE GLASS
W/	WITH
WM	WIRE MESH
WD	WOOD
WBL	WOOD BLOCKING

A4 ABBREVIATION LIST
SCALE: NOT TO SCALE

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MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: Y97.002.001
DATE: 01/22/2024
DRAWN BY: M.WOLFSBERG
DESIGNED BY: P.TAGGART
CHECKED BY: R.SWISHER

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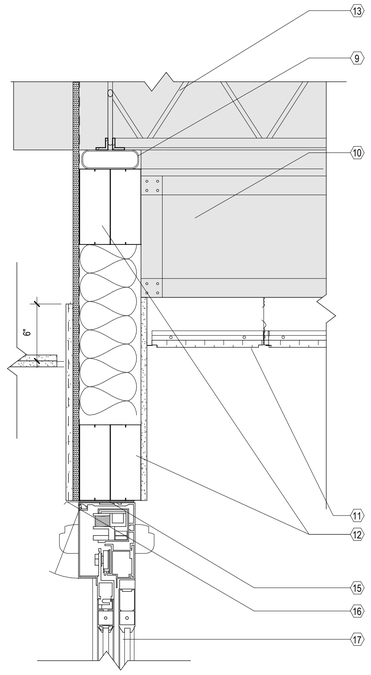
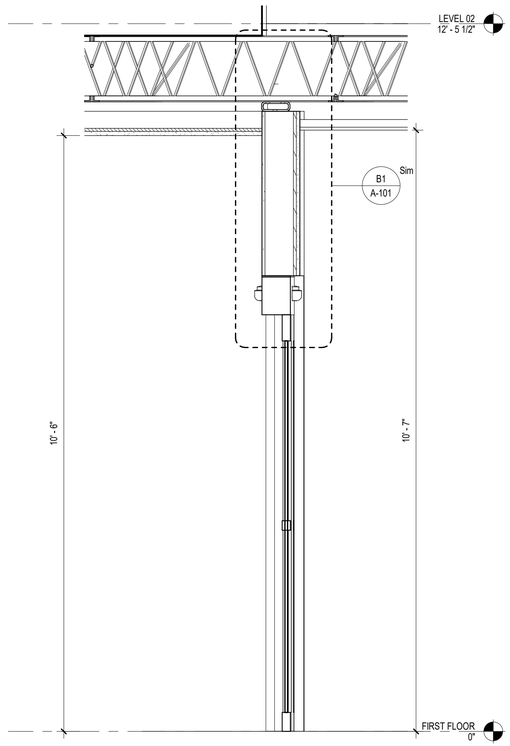
SYMBOLS, ABBREVIATIONS, LEGENDS, AND DETAILS

A-001

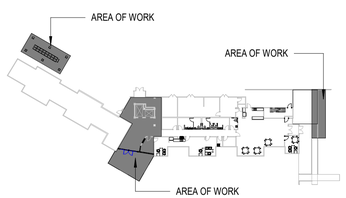


NOTES:
INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS

B1 STOREFRONT DETAIL AT ENTRY HEADER
SCALE: 1 1/2" = 1'-0"



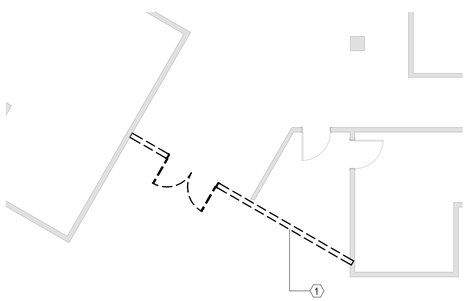
B2 ENTRY SECTION
SCALE: 3/4" = 1'-0"



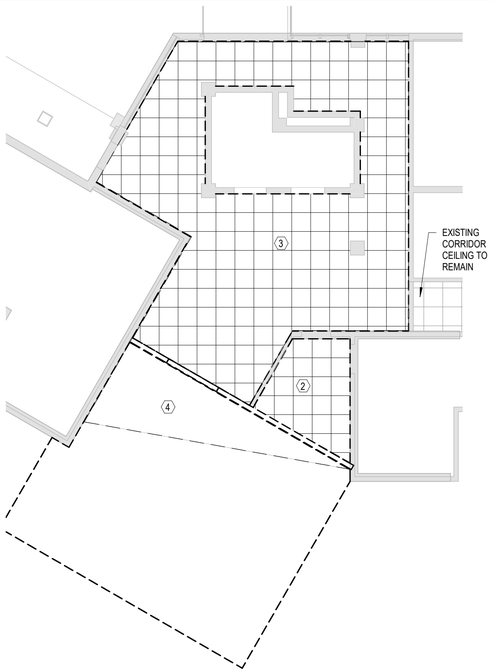
A1 KEY PLAN
SCALE: 1" = 60'-0"

1. DEMO EXISTING ENTRANCE STOREFRONT, WALL, DOOR AND ASSOCIATED HARDWARE TO CEILING AND ADJACENT WALLS
2. DEMO CEILING IN EXISTING OFFICE AREA
3. DEMO EXISTING CEILING TO EDGE OF EXISTING WALL OF CORRIDOR
4. PARTIALLY DEMO EXISTING CEILING AT EXTENT OF NEW WALL.
5. NEW STOREFRONT AND NEW SLIDING DOOR FPA/NOA ON SHEET A-001
6. FLOORING REPLACEMENT, OWNER PROVIDED. REFER TO FINSH SCHEDULE ON SHEET A-102.
7. ACT TO MATCH EXISTING ADJACENT CEILING TILE IN LOBBY AREA. REFER TO FINISH SCHEDULE ON SHEET A-102.
8. STRUCTURE OF LOBBY ROOF SHOWN FOR CLAIRTY AND CONNECTION POINTS FOR HSS ABOVE NEW ENTRY WALL
9. HSS ATTACHED TO ANGLED EXISTING JOIST AND PARALLEL WITH NEW ENTRY DOORWAY. SEE STRL DWGS FOR ATTACHMENT AND SIZE
10. EXISTING STRUCTURE, NO CHANGE
11. ACOUSTICAL PANEL CEILING AND GRID TO MATCH ADJACENT EXISTING CORRIDOR ACT. PAINT EDGES TO MATCH PROFILE.
12. BOX BEAM ABOVE DOOR AND ATTACHED TO HSS ABOVE
13. EXISTING JOIST, ANGLED ABOVE NEW ENTRY DOORWAY
14. N/A
15. BACKER ROD AND SEALANT
16. CONT FLASHING DRIP EDGE AT OPENING

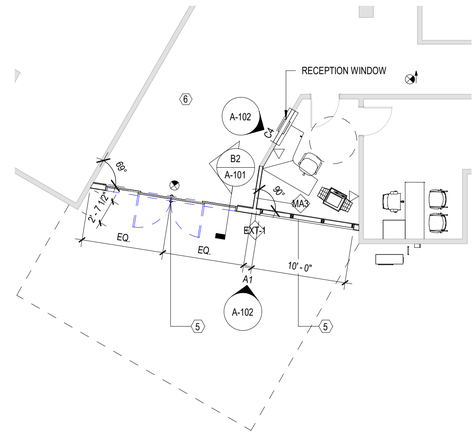
A2 LEVEL 01 - LOBBY RENOVATION KEYNOTE
SCALE: NOT TO SCALE



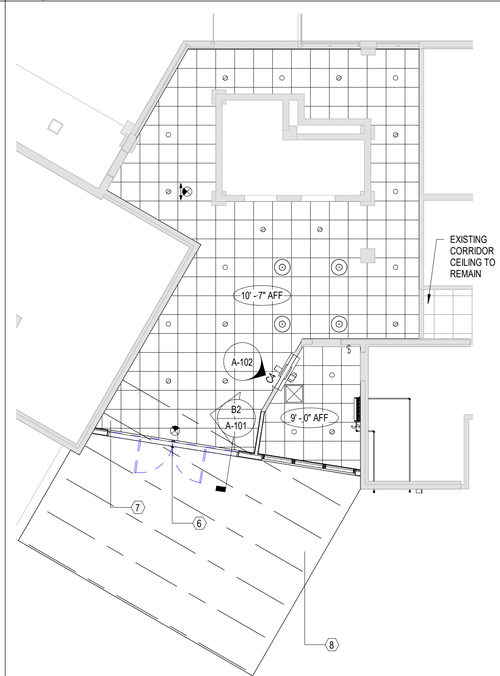
C3 LEVEL 01 - LOBBY DEMO
SCALE: 1/8" = 1'-0"



A3 LEVEL 01 - LOBBY RCP DEMO
SCALE: 1/8" = 1'-0"



C4 LEVEL 01 - LOBBY RENOVATION
SCALE: 1/8" = 1'-0"



A4 LEVEL 01 - LOBBY RCP
SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

- X'-X" — CEILING HEIGHT
- 2'-0" x 2'-0" ACCOUSTICAL CEILING TILE AND GRID TO MATCH ADJACENT CORRIDOR CEILING
- SUPPLY DIFFUSER, SEE MECHANICAL
- EXIT LIGHT, SEE ELECTRICAL
- DOWNLIGHT RECESSED CAN, SEE ELECTRICAL
- DECORATIVE PENDANT, SEE ELECTRICAL

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MARK	DATE	DESCRIPTION
2	2/20/2024	OWNER COMMENTS

REVISIONS

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DESIGNED BY:	P.TAGGART
CHECKED BY:	R.SWISHER

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LEVEL 01 - LOBBY RENOVATION

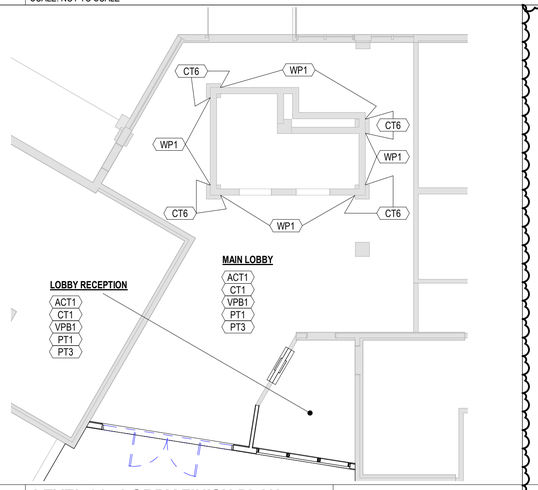
A-101

LOBBY RENOVATION FINISH SCHEDULE

TAG	TYPE	MANFACTURER	PRODUCT NAME	DESCRIPTION	NOTES	PRODUCT REPRESENTATIVE
ACT1	ACOUSTIC CEILING TILE	ARMSTRONG	BEVELED TEGULAR PANEL FOR 15/16" GRID	NOMINAL 24" X 24"	MATCH OTHER LEVEL 1 AREA	-
CT1	CERAMIC FLOOR TILE	DALTILE	AMERICAN OLEAN WEATHERED OAK WD18	GLAZED PORCELAIN, 8 X 40; GROUT: MAPEI 104 TIMBERWOLF	PATTERN: RUNNING BOND 1/3 OFFSET	JANELLE HAUENSTEIN (941) 355-2954
CT2	CERAMIC FLOOR TILE	ATLAS CONCORDE	COVE PEBBLE - MATTE	11 3/4" X 23 5/8", 9MM, NOT RECTIFIED; GROUT: MAPEI 103 COBBLESTONE	PATTERN: RUNNING BOND	
CT6	CERAMIC WALL TILE	OLYMPIA TILE & STONE	ETERNA SERIES CALACATTA GREY	12" X 24" OV.ET.CTG.1224.MT GROUT: MAPEI 38 AVALANCHE	PATTERN:HORIZONTAL STACK	
PL1	PLASTIC LAMINATE	WILSONART	STUDIO TEAK 7960 STANDARD HPL FINISH	DESIGN REPEAT 51" L X 34.5" W	-	TERESA FINCH (813) 293-0566
PT1	PAINT	SHERWIN-WILLIAMS	SW 7028 - INCREDIBLE WHITE	INTERIOR LATEX EGGSHELL FINISH	LOW VOC PAINT	RANDY MOORE (407) 658-1540
PT3	PAINT	SHERWIN-WILLIAMS	SW 7643 - PUSSYWILLOW	INTERIOR LATEX EGGSHELL FINISH	LOW VOC PAINT	
VPB1	VINYL PROFILE BASE	TARKETT	MW-32-R EQUINOX PEBBLE	4 1/2"; WALL BASE	ASTM E84/NFPA 255 CLASS B ASTM E6-48/NFPA 253 CLASS 1	ALISON AKERS (727) 894-4453
WP1	WALL COVERING	VERSA	AEGIS ASR04-321/RESERVOIR	50/52", TYPE II, RANDOM MATCH, REVERSE HANG	ASTM E84 CLASS A RATING	DENISE PERRENOUD (813) 361-8990

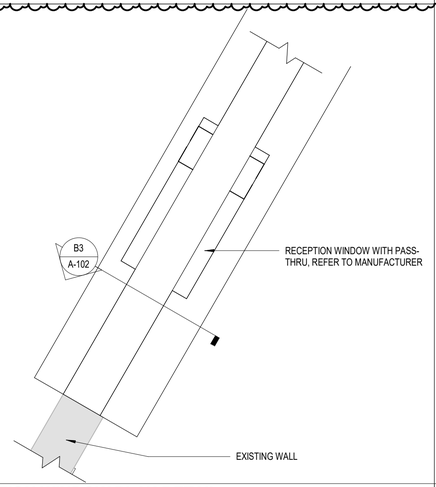
NOTE: ALL SPECIFICATIONS AND TAGS ARE INTENDED TO MATCH OTHER PROJECT WORK RECENTLY COMPLETED ON THE FIRST FLOOR OF BARBEE TOWERS.
COORDINATE ALL FINAL SELECTIONS FOR PROCUREMENT OF MATERIALS WITH OWNER.

C1 LOBBY RENOVATION - FINISH SCHEDULE
SCALE: NOT TO SCALE

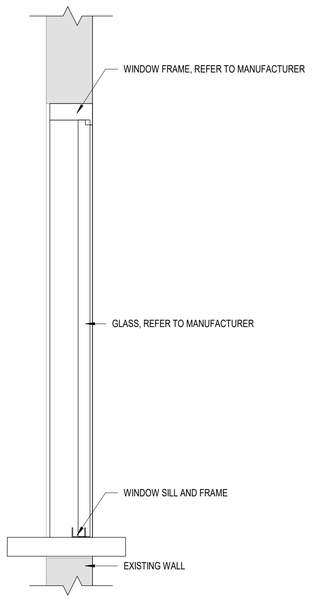


B1 LEVEL 01 - LOBBY FINISH PLAN
SCALE: 1/8" = 1'-0"

0 4' 8' 16'

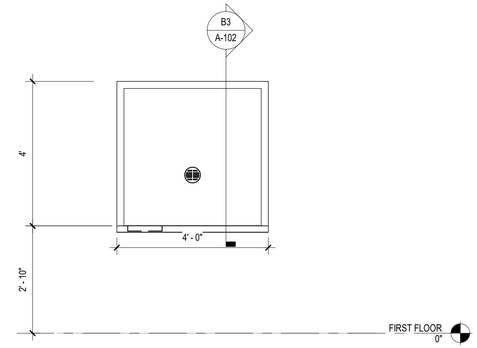


B2 RECEPTION WINDOW PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

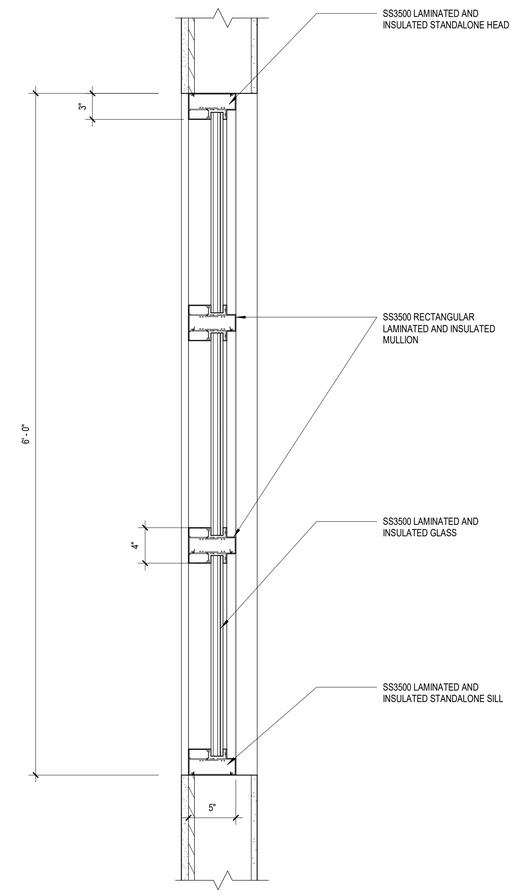


B3 RECEPTION WINDOW HEAD/JAMB AND SILL DETAIL
SCALE: 1 1/2" = 1'-0"

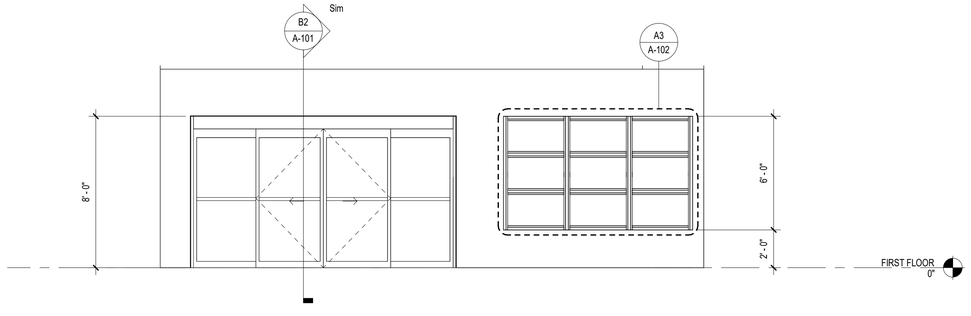
NOTES:
INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS



C4 RECEPTION WINDOW ELEVATION
SCALE: 1/2" = 1'-0"

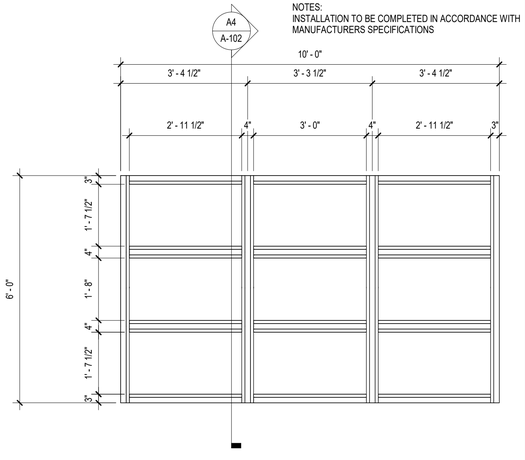


A1 ENTRANCE ELEVATION
SCALE: 1/4" = 1'-0"



A3 ENLARGED STOREFRONT ELEVATION
SCALE: 1/2" = 1'-0"

NOTES:
INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS



A4 STOREFRONT SECTION DETAIL
SCALE: 1 1/2" = 1'-0"

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TO THE BEST OF THE ARCHITECTS AND ENGINEER'S KNOWLEDGE, THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE-SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH FBC SECTION 110.3 AND CHAPTER 633 OF THE FLORIDA STATUTES.

RICHARD C. SWISHER
008618

CLEARWATER HOUSING AUTHORITY

BARBEE TOWERS MAIL STRUCTURE & FIRST FLOOR MODIFICATIONS
CLEARWATER HOUSING AUTHORITY
1100 DRUID ROAD
CLEARWATER, FL 33756

MARK	DATE	DESCRIPTION
2	2/20/2024	OWNER COMMENTS

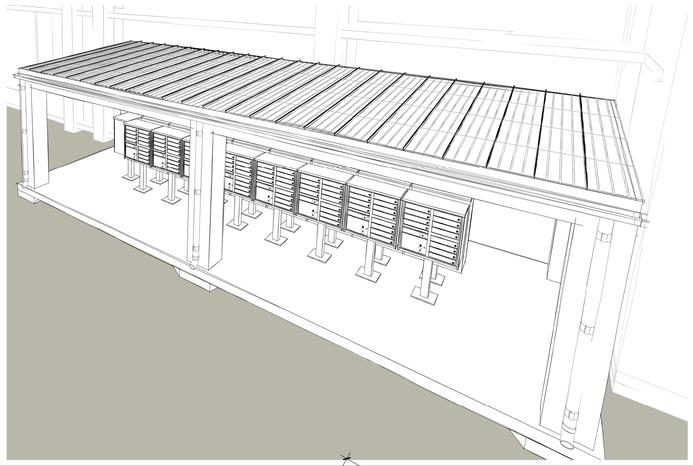
REVISIONS

PROJECT NO:	Y97.002.001
DATE:	01/22/2024
DRAWN BY:	M.WOLFSBERG
DESIGNED BY:	P.TAGGART
CHECKED BY:	R.SWISHER

CONTRACTOR SHALL VERIFY ALL CONDITIONS ON JOB SITE & NOTIFY THE OWNER OF ANY VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION

LEVEL 01 - WINDOW DETAIL

A-102



C1 CONCEPTUAL VIEW
SCALE: NOT TO SCALE

2023 FLORIDA BUILDING CODE - CODE ANALYSIS - MAIL STRUCTURE	
TYPE OF CONSTRUCTION:	V
SPRINKLERED:	NO
OCCUPANCY CLASSIFICATION:	U
ALTERATION	N/A
TOTAL PROJECT AREA:	440 SF

TYPES OF CONSTRUCTION

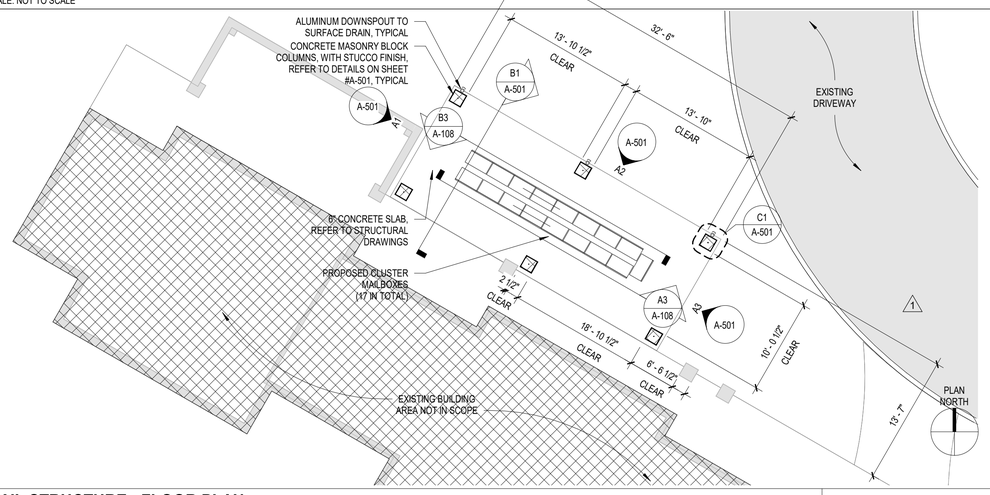
REFERENCED FROM FLORIDA BUILDING CODE TABLE 601

TYPE OF CONSTRCUTION: V	REQUIRED	PROVIDED
STRUCTURAL FRAME	0 HR	0 HR
BEARING WALLS	0 HR	0 HR
NON-BEARING WALLS	0 HR	0 HR
FLOOR CONSTRUCTION	0 HR	0 HR
ROOF CONSTRUCTION	0 HR	0 HR

C2 CODE COMPLIANCE
SCALE: NOT TO SCALE

APPLICABLE CODES	JURISDICTION
Florida Building Code 7th Edition (2020) – Building Florida Building Code 7th Edition (2020) – Existing Buildings Florida Building Code 7th Edition (2020) - Plumbing NFPA 70 - 2017 National Electric Code Florida Building Code 7th Edition (2020) – Energy Conservation Florida Building Code 7th Edition (2020) - Mechanical Florida Building Code 7th Edition (2020) - Fuel-Gas 2020 Florida Fire Prevention Code 7thEdition	CITY OF CLEARWATER Planning & Development 100 S. Myrtle Avenue Clearwater, Florida 33756 Phone: (727) 562-4567

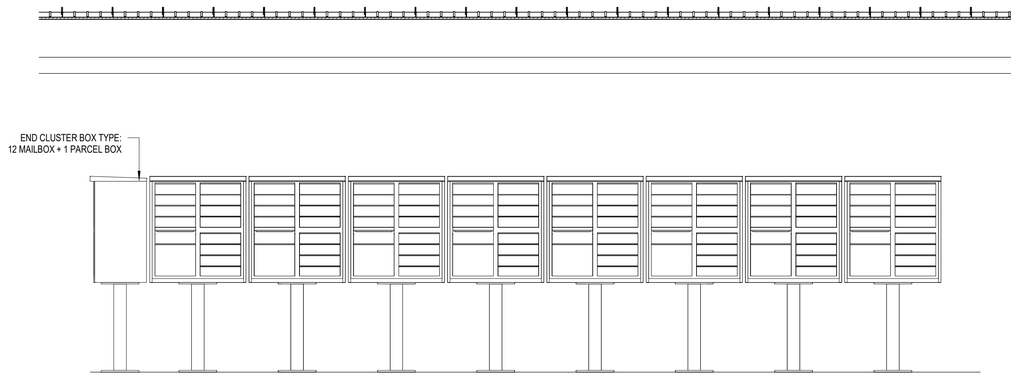
MAILBOX CLUSTER (CBU) QUANTITIES	
TOTAL NUMBER OF MAILBOXES REQUIRED: 161 TOTAL NUMBER OF PARCEL BOXES REQUIRED: 34 (CALCULATED PER USPS CODES USING 1:5 RATIO) CBU TYPES AND QUANTITY PROVIDED: (8) FLORENCE VITAL 1570-12 OR APPROVED EQUAL 12 MAILBOXES WITH 1 PARCEL BOX (9) FLORENCE VITAL 1570-8T6 OR APPROVED EQUAL 8 MAILBOXES WITH 4 PARCEL BOXES	TOTAL MAILBOXES PROVIDED AS SHOWN: 168 TOTAL PARCEL BOXES PROVIDED AS SHOWN: 36



B1 MAIL STRUCTURE - FLOOR PLAN
SCALE: 1/8" = 1'-0"

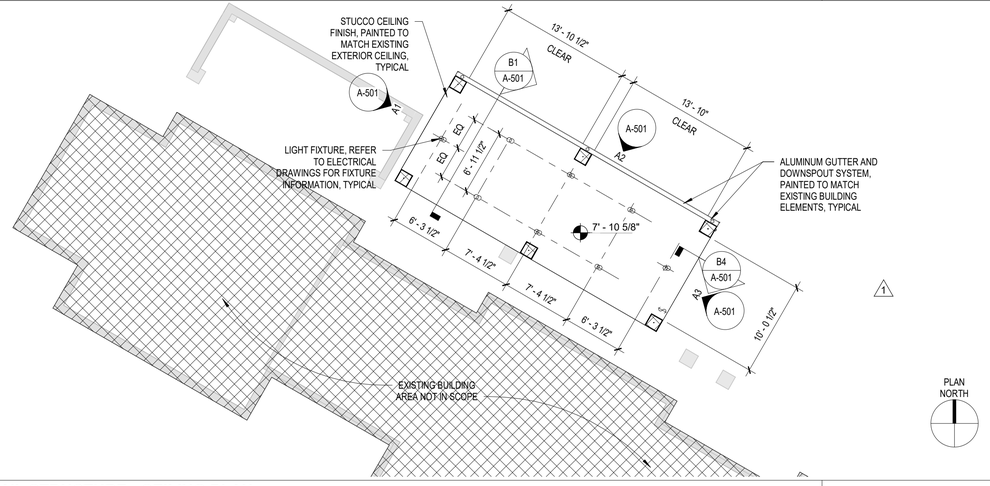
0 4' 8' 16'

ELEVATION SHOWN FOR MAIL CLUSTER BOX QUANTITY PURPOSES ONLY



B3 MAILBOX CLUSTER ROW B
SCALE: 1/2" = 1'-0"

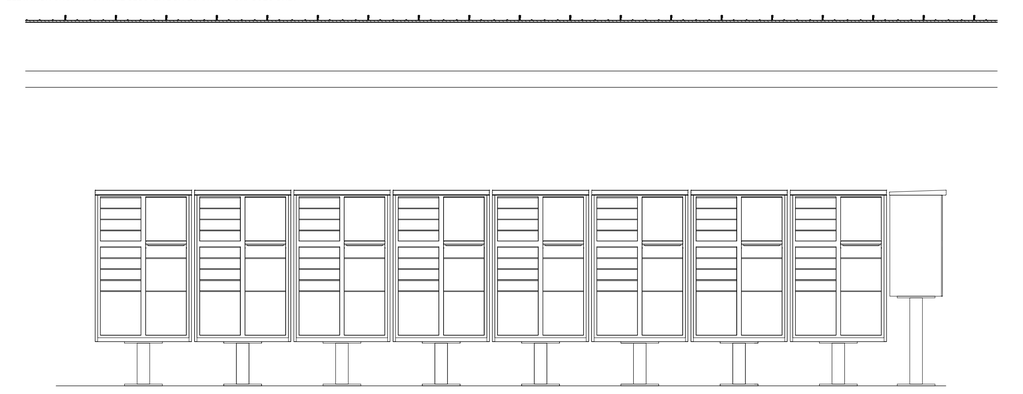
0 1' 2' 4'



A1 MAIL STRUCTURE - CEILING PLAN
SCALE: 1/8" = 1'-0"

0 4' 8' 16'

ELEVATION SHOWN FOR MAIL CLUSTER BOX QUANTITY PURPOSES ONLY



A3 MAILBOX CLUSTER ROW A
SCALE: 1/2" = 1'-0"

0 1' 2' 4'

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CLEARWATER, FL 33756

MARK	DATE	DESCRIPTION
1	1/22/2024	PERMIT COMMENTS

REVISIONS

PROJECT NO: Y97.002.001
DATE: 01/22/2024
DRAWN BY: G. ANDRIANO
DESIGNED BY: G. ANDRIANO
CHECKED BY: R.SWISHER

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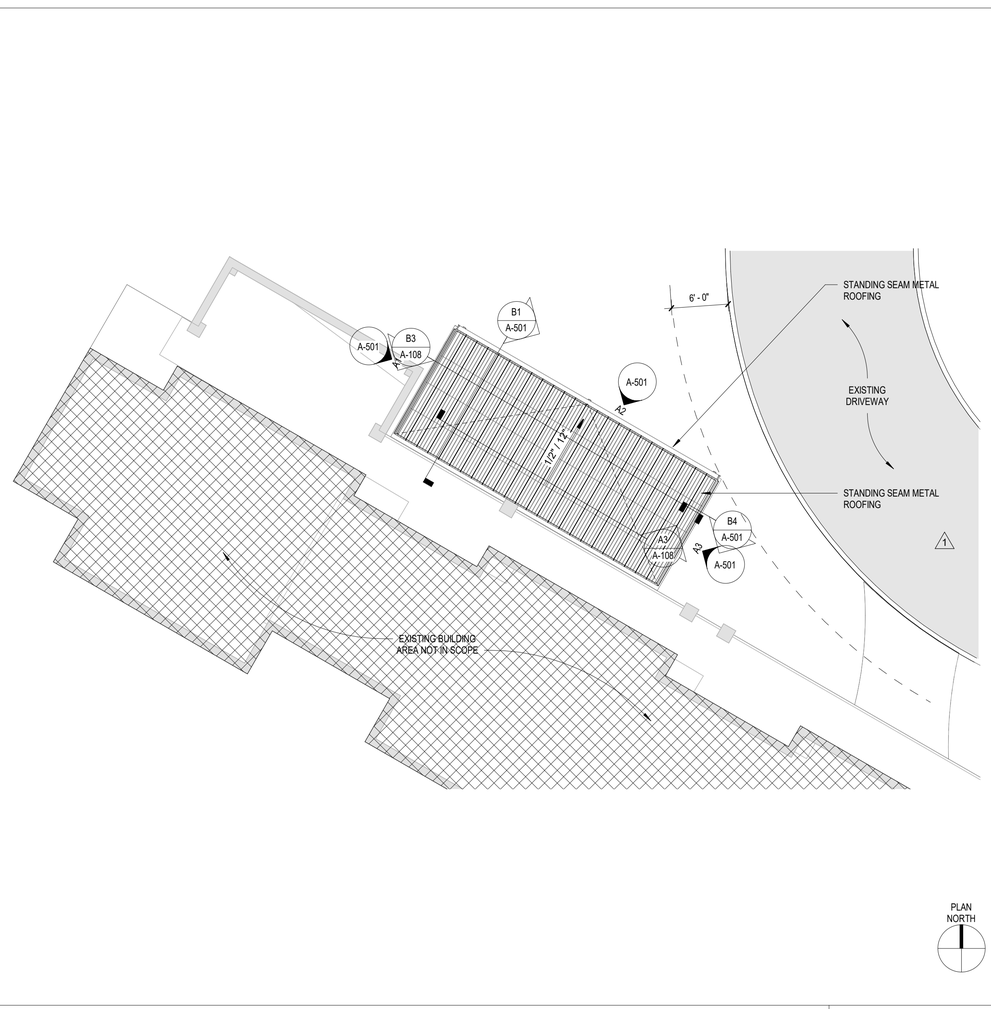
MAIL STRUCTURE - PLANS

A-108



A1 MAIL STRUCTURE - ROOF PLAN
SCALE: 1/8" = 1'-0"

0 4' 8' 16'

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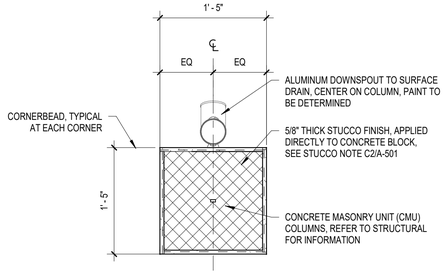
MAIL STRUCTURE - ROOF PLAN

A-109



C1 ENLARGED COLUMN DETAIL - PLAN

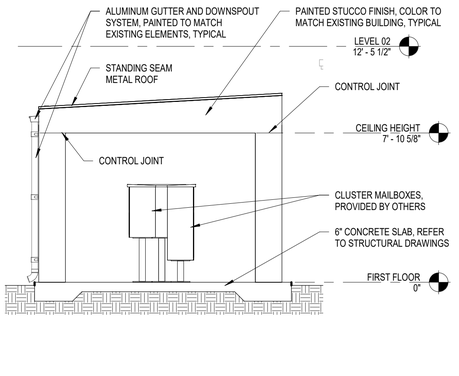
SCALE: 1" = 1'-0"

0 1/2' 1' 2'

1. STUCCO WITH 3-COAT SYSTEM (WATER REPELLENT PAINT, WITH PRIMER ON EXTERIOR FACE).
2. SCRATCH AND BROWN COAT WITH FINISHED COAT TO MATCH ADJACENT AND MAIN BUILDING.
3. ENTIRE SYSTEM OVER PAPERBACK METAL LATH. PROVIDE PERM-A-BARRIER WATERPROOF MEMBRANE AS MANUFACTURED BY W.R. GRACE, APPLIED DIRECTLY TO A W.R. GRACE BLOCK PRIMER ON CONCRETE MASONRY UNIT (CMU) WALLS.
4. PROVIDE CONTROL JOINTS AS-REQUIRED PER MANUFACTURER'S RECOMMENDATIONS. SEE ELEVATIONS FOR PROPOSED LOCATIONS AND VERIFY WITH ARCHITECT PRIOR TO INSTALLATION.
5. PROVIDE MOCK-UP (2 TOTAL) SAMPLES (4'-0" X 4'-0") FOR OWNER'S AND ARCHITECT'S APPROVAL.
6. PROVIDE ADDITIONAL 12" WIDE, PEEL AND STICK ICE AND WATER SHIELD WATERPROOF MEMBRANE AS MANUFACTURED BY W.R. GRACE OVER FLASHING LOCATIONS, TYPICAL.

C2 GENERAL STUCCO NOTES

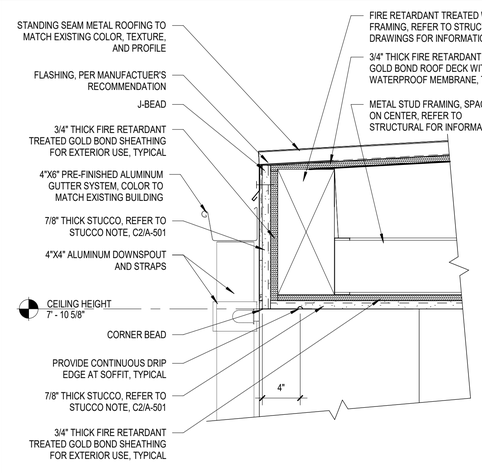
SCALE: NOT TO SCALE



B1 SECTION

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

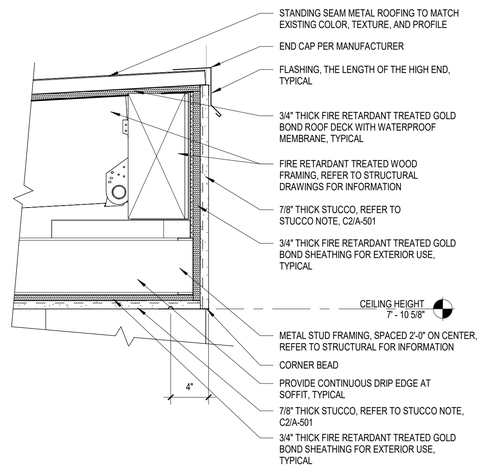
0 2' 4' 8'



B2 ENLARGED DETAIL - 01

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

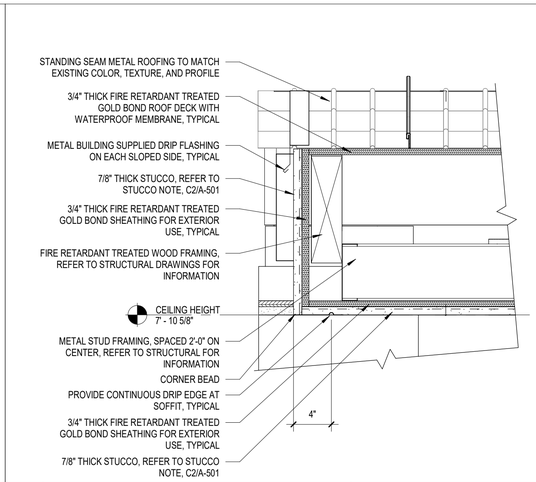
0 2' 4' 8'



B3 ENLARGED DETAIL - 02

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

0 2' 4' 8'



B4 ENLARGED DETAIL - 03

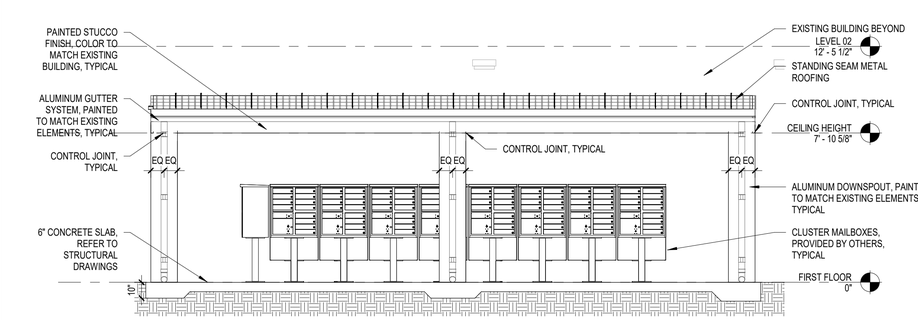
SCALE: 1 1/2" = 1'-0"

0 2' 4' 8'

A1 NORTHWEST ELEVATION

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

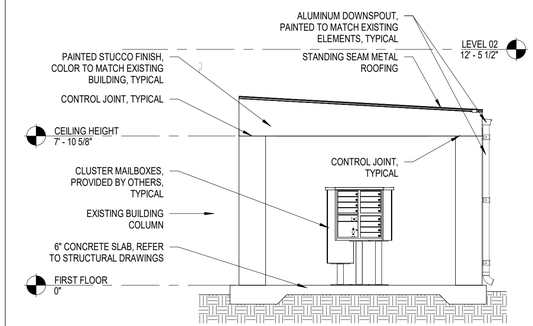
0 2' 4' 8'



A2 NORTHEAST ELEVATION

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

0 2' 4' 8'



A3 SOUTHWEST ELEVATION

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

0 2' 4' 8'

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CLEARWATER HOUSING AUTHORITY

BARBEE TOWERS MAIL STRUCTURE & FIRST FLOOR MODIFICATIONS
1100 DRUID ROAD
CLEARWATER, FL 33756

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO:	Y97.002.001
DATE:	01/22/2024
DRAWN BY:	G. ANDRIANO
DESIGNED BY:	G. ANDRIANO
CHECKED BY:	R.SWISHER

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MAIL STRUCTURE - ELEVATION AND DETAILS

A-501

ABBREVIATIONS

AB	ANCHOR BOLT(S)
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISH FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ALUM	ALUMINUM
ARCH	ARCHITECT OR ARCHITECTURAL DOCUMENTS
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
AVG	AVERAGE
BP	BASE PLATE
B/CONC	BOTTOM OF CONCRETE
B/FTG	BOTTOM OF FOOTING
B/DECK	BOTTOM OF DECK
BLDG	BUILDING
B/MAT	BOTTOM OF MAT
BPE	BOTTOM OF PILE ELEVATION
B/SLAB	BOTTOM OF SLAB
B/STL	BOTTOM OF STEEL
CC	CONCRETE COLUMN
CB	CONCRETE BEAM
CALCS	CALCULATIONS
CIP	CAST IN PLACE
CJ	CONTROL JOINT OR CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
℄	CENTERLINE
D	COMPOSITE STEEL DECK / STEEL ROOF DECK / FORM DECK
Db	DIAMETER OF REBAR
DBL	DOUBLE
DEPR	DEPRESSION
DEG	DEGREE
DTL	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DN	DOWN
DP	DRILLED PIER
E	MODULUS OF ELASTICITY
EA	EACH
EF	EACH FACE
EFEW	EACH FACE, EACH WAY
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
EL	ELEVATION
EMB	EMBEDMENT
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FDN	FOUNDATION
FF	FINISH FLOOR
FIN	FINISH
FD	FLOOR DRAIN
FLG	FLANGE
FLR	FLOOR
FRMG	FRAMING
F.S.	FOUNDATION STEP
FT	FOOT (FEET)
FTG	FOOTING
FY	YIELD STRESS STEEL
G	GRATING
GA	GAGE OR GAUGE
GALV	GALVANIZED
GB	GRADE BEAM

HSA	HEADED STUD ANCHOR
HORIZ	HORIZONTAL
H.P.	HIGH POINT
HS	HIGH STRENGTH
HT	HEIGHT
I (IN4)	MOMENT OF INERTIA
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
ID	INSIDE DIAMETER
IN	INCH
INFO	INFORMATION
INT	INTERIOR
JT	JOINT
K	KIP = 1000 LBS
KSI	KIPS PER SQUARE INCH
L	LEDGER
LBS	POUND(S)
Ldh	REBAR DEVELOPMENT LENGTH
Lext	REBAR STRAIGHT EXTENSION
L90	REBAR 90 DEGREE HOOK LENGTH
L135	REBAR 135 DEGREE HOOK LENGTH
L180	REBAR 180 DEGREE HOOK LENGTH
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LP	LOW POINT
LWC	LIGHT WEIGHT CONCRETE
MATL	MATERIAL
MAX	MAXIMUM
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MEP	MECHANICAL, ELECTRICAL AND PROCESS
MTL	METAL
MO	MASONRY OPENING
NAAMM	NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS
NF	NEAR FACE
NIC	NOT IN CONTRACT
NO	NUMBER
NS	NEAR SIDE
NTS	NOT TO SCALE
O.C.	ON CENTER
O.C.E.W.	ON CENTER, EACH WAY
OPP	OPPOSITE
PCI	PRESTRESSED CONCRETE INSTITUTE
PC	PILE/PIER CAP
PCF	POUNDS PER CUBIC FOOT
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PSI	POUNDS PER SQUARE INCH
PT, P/T	POST-TENSIONED
PSF	POUNDS PER SQUARE FOOT
QTY	QUANTITY
RO	ROOF OPENING
RAD	RADIUS
REINF	REINFORCED OR REINFORCING
SDI	STEEL DECK INSTITUTE
SL	SNOW LOAD
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SOG	SLAB ON GRADE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
SW	SHEARWALL

T/BTM CHORD	TOP OF BOTTOM CHORD
T&B	TOP AND BOTTOM
T/CAP	TOP OF CAP
T/CONC.	TOP OF CONCRETE
T/CURB	TOP OF CURB
T/DECK	TOP OF DECK
T/FTG	TOP OF FOOTING
T/GRADE	TOP OF GRADE
T/GRATING	TOP OF GRATING
TL	TOTAL LOAD
T/MAT	TOP OF MAT
T/PC	TOP OF PILE CAP
T/PIER	TOP OF PIER ELEVATION
T/SLAB	TOP OF SLAB
T/S	TOP OF STEEL
T/WALL	TOP OF WALL ELEVATION
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UT	ULTRASONIC TESTING
VERT	VERTICAL
WP	WORK POINT
WWR	WELDED WIRE REINFORCEMENT
WF	WALL FOOTING
W	WALL
X-STRONG	EXTRA STRONG
XX-STRONG	DOUBLE EXTRA STRONG
#	NUMBER

A2 ABBREVIATIONS

SCALE: NOT TO SCALE

TENSION LAP SPLICE LENGTH CHART

CLASS B

BAR SIZE	F'c = 4000 PSI			
	TOP BARS		OTHER BARS	
	CASE 1	CASE 2	CASE 1	CASE 2
#3	24	36	19	28
#4	32	48	25	37
#5	40	60	31	47
#6	48	72	37	56
#7	70	106	54	81
#8	80	121	62	93
#9	91	136	70	105
#10	102	153	79	118
#11	113	170	87	131

NOTES:

1. TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING BARS AND NORMAL WEIGHT CONCRETE.
2. TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICE LENGTHS ARE BASED ON ACI 318. TABULATED VALUES FOR BEAMS OR COLUMNS ARE BASED ON TRANSVERSE REINFORCEMENT AND CONCRETE OVER MEETING MINIMUM CODE REQUIREMENTS. LENGTHS ARE IN INCHES.
3. CASES 1 AND 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL ELEMENT, CONCRETE COVER, AND THE CENTER-TO-CENTER SPACING OF THE BARS, ARE DEFINED AS:

BEAMS OR COLUMNS	CASE 1	COVER AT LEAST 1 d_b AND c.-c. SPACING AT LEAST 2 d_b
	CASE 2	COVER LESS THAN 1 d_b AND c.-c. SPACING LESS THAN 2 d_b
ALL OTHERS	CASE 1	COVER AT LEAST 1d_b AND c.-c. SPACING AT LEAST 3d_b
	CASE 2	COVER LESS THAN 1 d_b AND c.-c. SPACING LESS THAN 3d_b

4. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
5. FOR LIGHTWEIGHT AGGREGATE CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.3.
6. FOR EPOXY-COATED BARS, MULTIPLY THE TABULATED VALUES BY ONE OF THE FOLLOWING FACTORS:

CONCRETE COVER AND SPACING	TOP BARS	OTHER BARS
COVER<3d_b OR C.-C. SPACING<7d_b	1.7	1.50
COVER≥3d_b AND C.-C. SPACING≥7d_b	1.6	1.20

A1 LAP SPLICE TABLE

SCALE: NOT TO SCALE

DESIGN CRITERIA

1. CODES AND REFERENCE STANDARDS: FLORIDA BUILDING CODE (FBC) 2020
2. 2020 FBC DESIGN DATA:
   - A. ROOF LIVE LOAD — 20 PSF
   - B. WIND LOAD (3-SEC GUST) BASIC WIND SPEED — 146 MPH
     - a. RISK CATEGORY — II
     - b. EXPOSURE CATEGORY — [C]

GENERAL: (THE FOLLOWING REQUIREMENTS TOGETHER WITH THE PROJECT PLANS AND SPECIFICATIONS SHALL APPLY TO THE STRUCTURES IN THIS CONTRACT.)

1. THE CONTRACTOR IS RESPONSIBLE FOR THE SURVEY AND FIELD VERIFYING ALL EXISTING CONDITIONS.
2. WORK ON STRUCTURAL DRAWINGS REPRESENTS FINAL CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRUCTURAL STABILITY OF ALL INTERMEDIATE CONDITIONS DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL COORDINATE THE ARCHITECTURAL, PLUMBING, HVAC, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION NOT INDICATED ON THE STRUCTURAL DRAWINGS. SUCH INFORMATION INCLUDES, AS A MINIMUM, EMBEDDED SLEEVES AND INSERTS, MISCELLANEOUS DETAILS, SPECIAL FLOOR FINISHES, DOOR THRESHOLDS, SLOPES TO DRAINS, NAILERS, OPENINGS IN STRUCTURAL ELEMENTS, ETC.
4. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS, TIE-DOWNS, AND/OR SHORING MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
5. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROCEDURES. THE STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION OR FOR RELATED SAFETY PROCEDURES.
6. TYPICAL NOTES AND DETAILS SHOWN ON STRUCTURAL TYPICAL DETAILS SHALL BE APPLICABLE TO ALL PARTS OF THE STRUCTURAL WORK EXCEPT WHERE SPECIFICALLY REQUIRED OTHERWISE ON THE CONTRACT DOCUMENTS. DETAILS NOT SPECIFICALLY SHOWN SHALL BE SIMILAR TO THOSE SHOWN FOR THE MOST NEARLY SIMILAR CONDITION ON THE DRAWINGS AS DETERMINED BY THE ENGINEER.
7. DO NOT SCALE DRAWING DIMENSIONS. IN THE EVENT OF A GRID LINE DIMENSION CONFLICT, THE ARCHITECTURAL DRAWINGS SHALL GOVERN.
8. THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR ALL PARTS OF THE WORK INCLUDING DESCRIPTION OF DEMOLITION, TEMPORARY BRACING, CONSTRUCTION METHODS AND SEQUENCING, WHERE APPLICABLE NO PERFORMANCE OF WORK SHALL COMMENCE WITHOUT REVIEW OF THE SHOP DRAWINGS BY THE ENGINEER.
9. FABRICATION PRIOR TO THE RECEPT OF AN APPROVED SHOP DRAWINGS SHALL BE AT THE CONTRACTOR'S OWN RISK AND THAT INSTALLATION OF ANY WORK PRIOR TO RECEIPT OF AN APPROVED SHOP DRAWING SHALL BE STRICTLY PROHIBITED.
10. FOR ELEVATIONS REFER TO THE PLAN SHEETS.
11. DRILLING, CORING, SAW CUTTING AND ETC. INTO CONCRETE SHALL MEET THE LATEST OSHA REGULATIONS FOR SILICA DUST EXPOSURE.
12. DO NOT PLACE MATERIALS OR EQUIPMENT ON UNFINISHED FLOORS OR ROOFS IN EXCESS OF 20 PSF NOR ON FINISHED FLOORS OR ROOFS IN EXCESS OF THE INDICATED DESIGN LIVE LOADS. AVOID IMPACT LOADING.
13. INFORMATION RELATED TO EXISTING CONDITIONS REPRESENTS KNOWLEDGE BASED UPON INFORMATION PROVIDED BY THE OWNER BUT WITHOUT GUARANTEE OF ACCURACY. REPORT EXISTING CONDITIONS THAT VARY FROM THOSE SHOWN ON THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S REPRESENTATIVE.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING CONSTRUCTION WHILE PERFORMING WORK. THE CONTRACTOR SHALL PROPERLY REINSTATE EXISTING FINISHES, FIREPROOFING OR ITEMS THAT ARE REMOVED OR DAMAGED WHILE PERFORMING WORK.

EXCAVATION AND FILL

1. ALL EXCAVATIONS SHALL BE DEWATERED TO MAINTAIN GROUNDWATER AT LEAST 24" BELOW FOOTING BEFORE PLACING OF CONCRETE.
2. SLOPE THE EXTERIOR GRADE AWAY FROM THE STRUCTURE.
3. PROVIDE TEMPORARY OR PERMANENT SUPPORTS, SHORING, SHEETING OR BRACING SO THAT NO HORIZONTAL MOVEMENT OR VERTICAL SETTLEMENT OCCURS TO ADJACENT STRUCTURES, STREETS, SOILS OR UTILITIES ADJACENT TO OR WITHIN THE PROJECT SITE.
4. NO FOUNDATION CONCRETE SHALL BE PLACED IN WATER.

FOUNDATION

1. THE FOUNDATION HAS BEEN DESIGNED WITH A PRESUMED MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF AND A MODULUS OF MINIMUM SUBGRADE REACTION OF 250 LB/IN^3
2. NO RESPONSIBILITY IS ASSUMED BY THE ENGINEER FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS.
3. FOOTINGS TO BEAR ON NATURAL UNDISTURBED SOIL OR COMPACTED FILL TO EXHIBIT A DENSITY OF AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557 (MODIFIED PROCTOR).

REINFORCED MASONRY

1. FURNISH AND CONSTRUCT CONCRETE MASONRY UNIT WORK ACCORDING TO REQUIREMENTS OF ACI 530.1-11 FOR MATERIALS, AND ACI 530-11 FOR DESIGN (MSJC). CONTACT OWNER'S REPRESENTATIVE BEFORE MASONRY WORK TO SCHEDULE PRE- CONSTRUCTION CONFERENCE WITH ENGINEER, GENERAL CONTRACTOR, MASONRY CONTRACTOR AND TESTING LABORATORY.
2. TEST (VERIFY) THE COMPRESSIVE STRENGTH OF THE MASONRY BY THE UNIT STRENGTH METHOD. VERIFY THE COMPRESSIVE STRENGTH OF THE MASONRY BEFORE CONSTRUCTION. ALL CONCRETE MASONRY ASSEMBLAGES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (FM) OF 1,750 PSI. MASONRY UNITS SHALL BE ACCORDING TO REQUIREMENTS OF ASTM C90 HOLLOW CORE, GRADE N, WITH A NET AREA COMPRESSIVE STRENGTH 2,000 PSI MINIMUM. MORTAR SHALL BE TYPE S WITH WASHED SAND AGGREGATE ACCORDING TO REQUIREMENTS OF ASTM C144. MORTAR SHALL BE ACCORDING TO REQUIREMENTS OF ASTM C270 (PROPORTION SPECIFICATION TYPE N). SUBMIT FOR REVIEW PRODUCT DATA CONFIRMING THAT MASONRY PRODUCTS MEET OR EXCEED THESE STANDARDS.
3. FOR FILLING SPACES 4" OR LARGER IN BOTH DIRECTIONS, USE "COARSE GROUT" WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. THE GROUT SHALL BE TESTED IN ACCORDANCE WITH ASTM C1019. FOR FILLING SPACES LESS THAN 4" IN ONE OR BOTH DIRECTIONS USE FINE GROUT PROPORTIONED PER ASTM C476.
4. PLACE GROUT IN 4'-0" LIFTS AT 9" TO 11" SLUMP (HIGH-RANGE WATER REDUCING ADMIXTURE ASTM C494 TYPE F OR TYPE G).
5. PROVIDE CLASS B TENSION LAP AT ALL VERTICAL CMU REINFORCING UNO. ALL BARS SHALL BE TIED.
6. CONTRACTOR IS RESPONSIBLE FOR CMU COLUMN BRACING DURING CONSTRUCTION.
7. REINFORCED MASONRY IS CONTROLLED MATERIAL THAT REQUIRES CONTINUOUS INSPECTION DURING CONSTRUCTION. COORDINATE CONSTRUCTION WITH THE SPECIAL INSPECTOR.

CONCRETE

1. CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ACI 301 - SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.
2. STANDARDS:
   - DESIGN: ACI 318 - LATEST EDITION
   - DETAILS: ACI 315 - LATEST EDITION
   - MATERIALS: ACI 301 - LATEST EDITION
3. DESIGN STRENGTH:
   - SLAB ON GRADE: **4000** PSI COMPRESSIVE STRENGTH @ 28 DAYS, NORMAL WEIGHT CONCRETE
   - FOUNDATIONS: **4000** PSI COMPRESSIVE STRENGTH @ 28 DAYS, NORMAL WEIGHT CONCRETE
4. SUBMIT PROPOSED CONCRETE MIX DESIGN TO THE OWNER'S REPRESENTATIVE AND TESTING LABORATORY CONCURRENTLY FOR REVIEW AND APPROVAL.
5. CONCRETE COVER OVER BARS:
   - CONCRETE DEPOSITED ON GROUND 3".
   - FORMED CONCRETE EXPOSED TO GROUND, WEATHER OR WATER 2".
   - WALLS & SLABS NOT DIRECTLY EXPOSED TO GROUND, WATER, OR WEATHER 1-1/2".
6. CLEAN AND APPLY BONDING AGENT TO ALL EXISTING CONCRETE SURFACES TO RECEIVE NEW CONCRETE. ALL CONCRETE TO CONFORM WITH THE LATEST ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. (ACI - 301)
7. SECTIONS AND DETAILS MAY NOT SHOW ALL REQUIRED CONCRETE REINFORCEMENT. ADDITIONAL REINFORCEMENT MAY BE DESCRIBED IN SCHEDULES (IF APPLICABLE) AND NOTES.
8. PROVIDE BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH REQUIREMENTS OF ACI 315 UNLESS NOTED OTHERWISE.
9. NOT ALL ITEMS EMBEDDED IN THE CONCRETE ARE SHOWN ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL OPENINGS AND EMBEDDED ITEMS IN THE CONCRETE PERTAINING TO THE DIFFERENT TRADES AS SHOWN ON THEIR PERSPECTIVE DRAWINGS. SLEEVES, MECHANICAL OPENINGS, CONDUITS, PIPES, RECESSES, DEPRESSIONS, CURBS, AND ALL EMBEDDED ITEMS SHALL BE PROVIDED AS SHOWN ON THE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS AND AS REQUIRED BY THE EQUIPMENT MANUFACTURERS.
10. PROVIDE 3/4" CHAMFER ON ALL EXPOSED CONCRETE EDGES U.N.O

REINFORCING

1. REINFORCING:
   - MESH: ASTM A-185 (FLAT SHEETS)
   - BARS: ASTM A-615 GRADE 60 - DEFORMED.
2. SPLICES IN REINFORCEMENT: UNLESS OTHERWISE NOTED, ALL SPLICES AND ANCHORAGES SHALL BE PER ACI. STAGGER SPLICES WHEREVER POSSIBLE AND LOCATE SO AS NOT TO IMPAIR STRENGTH OF MEMBERS.
3. REINFORCEMENT WORK OF DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318 (ACI DETAILING MANUAL-2004 (SP 66) CRSI MANUAL OF STANDARD PRACTICE (MSP 2009), AND THE STRUCTURAL WELDING CODE- REINFORCING STEEL (AWS D1.1).
4. PROVIDE AND SCHEDULE ON SHOP DRAWINGS THE NECESSARY ACCESSORIES TO HOLD ALL REINFORCEMENT SECURELY IN POSITION.
5. WHERE CONTINUOUS REINFORCEMENT IS CALLED FOR, IT SHALL BE EXTENDED CONTINUOUSLY AROUND CORNERS AND LAPPED AT SPLICES OR AT DISCONTINUOUS ENDS. LAPS SHALL BE CLASS B TENSION LAP SPLICES UNLESS OTHERWISE NOTED.
6. WHERE REINFORCEMENT IS NOT SHOWN ON DRAWINGS, PROVIDE REINFORCEMENT IN ACCORDANCE WITH APPLICABLE DETAILS AS DETERMINED BY THE ENGINEER. IN NO CASE SHALL THE REINFORCEMENT BE LESS THAN THE MINIMUM PERMITTED BY THE APPLICABLE CODES.
7. WHERE REINFORCEMENT IS REQUIRED IN SECTION, REINFORCEMENT IS CONSIDERED TYPICAL WHEREVER THE SECTION APPLIES.
8. REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS.
9. WELDED WIRE FABRIC SHALL BE LAPPED 8 INCHES OR 1 1/2 SQUARES WHICHEVER IS LARGER AND SHALL BE WIRED TOGETHER.
10. REINFORCEMENT SHALL NOT BE TACK WELDED. REINFORCING BARS TO BE WELDED SHALL CONFORM TO ASTM A706 FY=60KSI.
11. REINFORCEMENT INSTALLATION SHALL BE COMPLETED AT LEAST 24 HOURS BEFORE A CONCRETE PLACEMENT OR SHALL BE COORDINATED WITH THE OWNERS REPRESENTATIVE TO ENSURE PROPER TIME IS ALLOWED FOR THE INSPECTION OF THE REINFORCING. NOTIFY THE ENGINEER OF COMPLETION.
12. ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE AT THE POSITIONS SHOWN ON THE DRAWINGS BEFORE PLACING CONCRETE.

WOOD FRAMING

1. ALL LUMBER SHALL BE PS 20, NEW AND UNDAMAGED GRADED FIRE RETARDANT TREATED LUMBER IN ACCORDANCE WITH NFPA GRADING RULES. LUMBER STRESSES SPECIFIED DO NOT INCLUDE REPETITIVE MEMBER USE. FRAMING MEMBERS SHALL BE S4S UNLESS NOTED OTHERWISE. ALL WOOD BEARING ON CONCRETE OR MASONRY SHALL BE WOLMANIZED.
   - A. ROUGH FRAMING (2X4 -2X12) SHALL CONSIST OF #2 SOUTHERN YELLOW PINE (SYP) WITH 19 PERCENT MAXIMUM MOISTURE CONTENT HAVING NO LESS THAN AN ALLOWABLE BENDING STRESS (FB) OF 1,500 PSI (2X4), 1,250 PSI (2X6), 1,200 PSI (2X8), 1,050 PSI (2X10) AND 975 PSI (2X12), A MODULUS OF ELASTICITY OF 1,600,000 PSI, AND AN ALLOWABLE SHEAR STRESS OF 90 PSI.
2. NAILS, SPIKES, AND STAPLES SHALL BE GALVANIZED FOR EXTERIOR LOCATIONS, HIGH HUMIDITY LOCATIONS, AND TREATED WOOD; PLAIN FINISH FOR OTHER INTERIOR LOCATIONS; SIZE AND TYPE TO SUIT APPLICATION. TYPICAL NAILING SHALL BE WITH COMMON WIRE NAILS.
3. BOLTS, NUTS, WASHERS, LAGS AND SCREWS SHALL BE MEDIUM CARBON STEEL; SIZE AND TYPE TO SUIT APPLICATION; GALVANIZED FOR EXTERIOR LOCATIONS, HIGH HUMIDITY LOCATIONS, AND TREATED WOOD; PLAIN FINISH FOR OTHER INTERIOR LOCATIONS.
4. ADHESIVE SHALL BE GUN GRADE ACRYLIC COMPOUND, SUCH AS LIQUID NAILS BY MACCO ADHESIVES.
5. PLYWOOD SHEATHING CLIPS SHALL BE SIMPSON STRONG-TIE 18 GAGE GALVANIZED STEEL X PLYWOOD THICKNESS.
6. UNLESS OTHERWISE INDICATED, USE TYPE LSSR JOIST HANGERS AS MANUFACTURED BY THE SIMPSON COMPANY FOR FLUSH TYPE JOIST CONNECTIONS TO SUPPORTING BEAMS. COLUMN CAP AND BASE CONNECTIONS SHALL BE AS MANUFACTURED BY THE SIMPSON COMPANY, TYPE AS RECOMMENDED BY THE MANUFACTURER FOR THE SIZE OF JOIST OR COLUMN AND BEAMS BEING CONNECTED.
7. STORE FRAMING MATERIAL A MINIMUM OF 12" ABOVE THE GROUND IN A MANNER TO ALLOW FOR PROPER DRAINAGE, VENTILATION AND PROTECTION FROM THE WEATHER.
8. COORDINATE STRUCTURAL ENGINEER'S REVIEW, THE BUILDING OFFICIAL INSPECTION AND THE SPECIAL INSPECTOR INSPECTION AND TESTING SERVICES.
9. THE BUILDING OFFICIAL SHALL INSPECT THE PRIMARY STRUCTURAL FRAMING. THE BUILDING OFFICIAL MAY ACCEPT A REVIEW BY A LICENSED PROFESSIONAL ENGINEER IN PLACE OF THE BUILDING OFFICIAL CONDUCTING HIS INSPECTION. (IBC CHAPTER 109.3.4)
10. THE SPECIAL INSPECTOR (SI) SHALL INSPECT SITE BUILT ASSEMBLIES (IBC SECTION 1704.6)
11. SPECIAL INSPECTORS ARE RESPONSIBLE TO PREPARE, SIGN AND SUBMIT TO THE RDPIRC WITH A COPY TO THE OWNER AND THE GENERAL CONTRACTOR (AND TO THE BUILDING OFFICIAL IF HE REQUESTS) HIS "REPORT OF REQUIRED SPECIAL INSPECTIONS" AFTER THE GENERAL CONTRACTOR COMPLETES HIS WORK ACCORDING TO THE APPROVED PLANS. THE SPECIAL INSPECTOR SHALL PREPARE HIS "REPORT OF REQUIRED INSPECTIONS" USING THE FORM APPROVED BY AND AVAILABLE FROM THE BUILDING OFFICIAL.

A2 GENERAL NOTES

SCALE: NOT TO SCALE

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BRANDON C. WARNER
93500

CLEARWATER HOUSING AUTHORITY

BARBEE TOWERS MAIL STRUCTURE & FIRST FLOOR MODIFICATIONS
1100 DRUID ROAD, CLEARWATER, FL 33756

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO:	Y97.002.001
DATE:	12/19/2023
DRAWN BY:	A. AVELLANEDA
DESIGNED BY:	B. WARNER, PE
CHECKED BY:	K. STEGMEIEIR II, PE

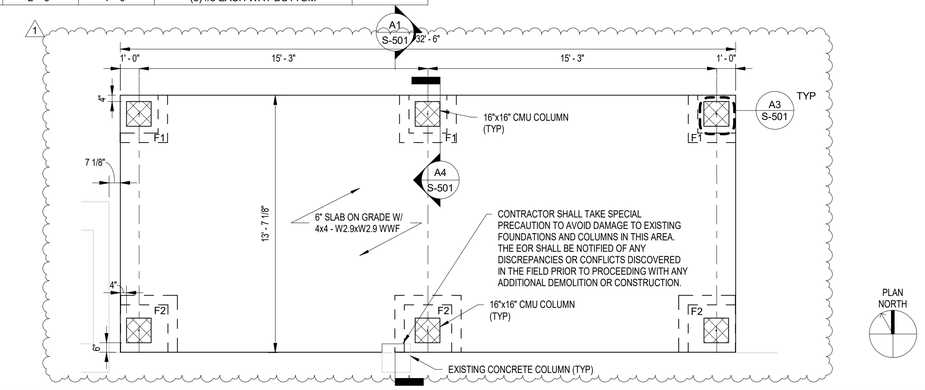
CONTRACTOR SHALL VERIFY ALL CONDITIONS ON JOB SITE & NOTIFY THE OWNER OF ANY VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION

GENERAL NOTES

S-001

(F) FOOTING SCHEDULE

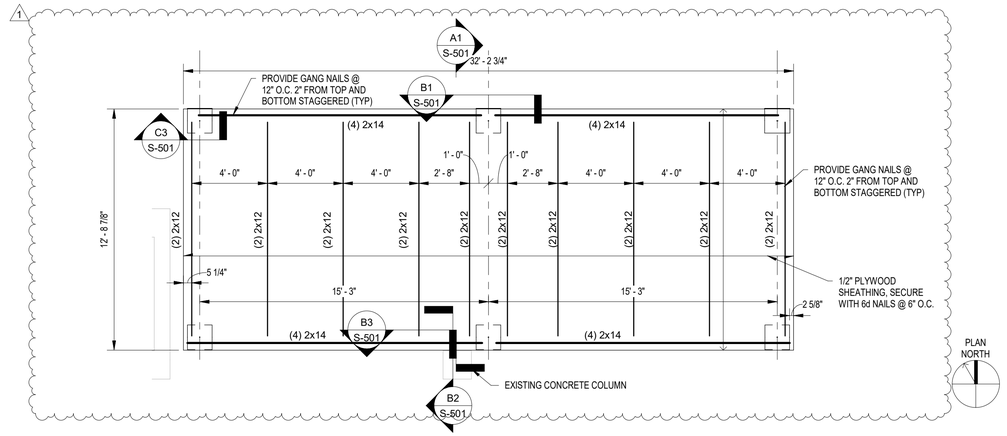
MARK	DIMENSIONS "W"	DIMENSIONS "L"	DIMENSIONS "H"	REINFORCING	REMARKS
F1	2' - 0"	2' - 0"	1' - 0"	(3) #5 EACH WAY BOTTOM	---
F2	2' - 6"	2' - 6"	1' - 0"	(3) #5 EACH WAY BOTTOM	---



C1 MAIL STRUCTURE FOUNDATION PLAN

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

0 4' 8' 16'



C3 MAIL STRUCTURE ROOF FRAMING PLAN

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

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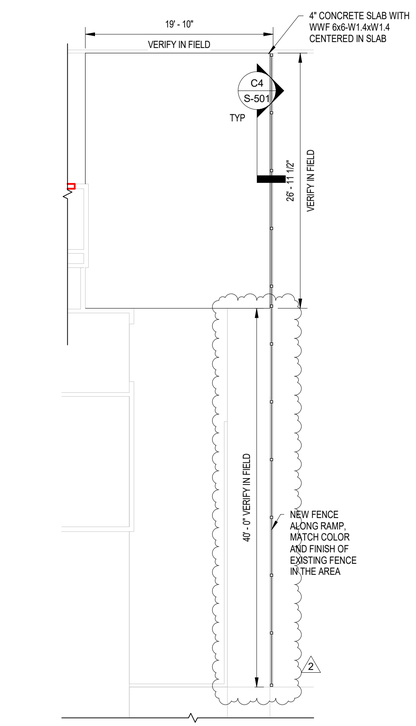
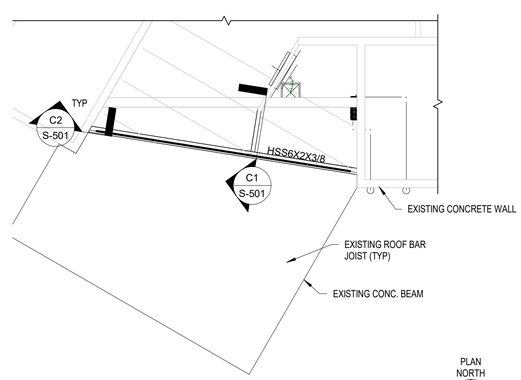


A1 PARTIAL SITE PLAN - SLAB REPOUR

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

0 4' 8' 16'



A2 ENTRY CANOPY FRAMING PLAN

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

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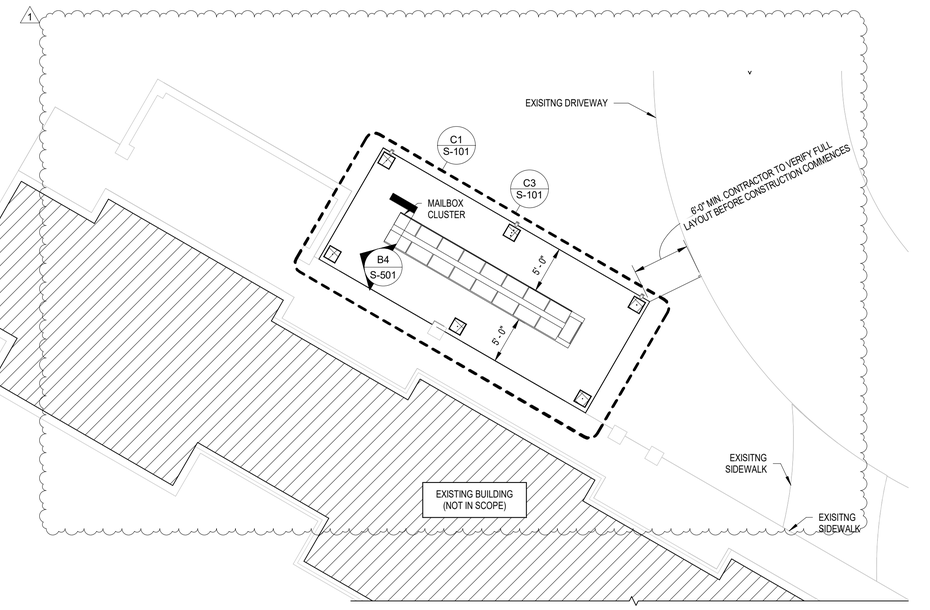

A3 PARTIAL SITE PLAN - MAIL STRUCTURE

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

0 4' 8' 16'

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TO THE BEST OF THE ARCHITECTS AND ENGINEER'S KNOWLEDGE, THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE-SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH FSC SECTION 110.3 AND CHAPTER 633 OF THE FLORIDA STATUTES.

BRANDON C. WARNER
93500

CLEARWATER HOUSING AUTHORITY

BARBEE TOWERS MAIL STRUCTURE & FIRST FLOOR MODIFICATIONS
CLEARWATER HOUSING AUTHORITY
1100 DRUID ROAD, CLEARWATER, FL 33756

MARK	DATE	DESCRIPTION
1	01/19/2024	PERMIT COMMENTS
2	02/20/2024	OWNER COMMENTS

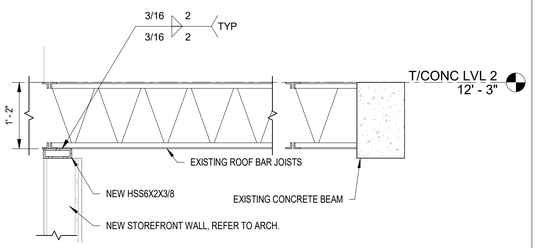
REVISIONS

PROJECT NO:	Y97.002.001
DATE:	12/19/2023
DRAWN BY:	A. AVELLANEDA
DESIGNED BY:	B. WARNER, PE
CHECKED BY:	K. STEGMEIEIR II, PE

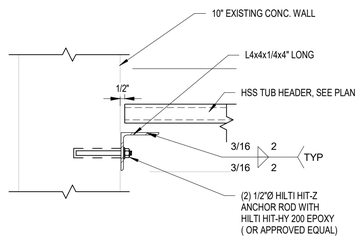
CONTRACTOR SHALL VERIFY ALL CONDITIONS ON JOB SITE & NOTIFY THE OWNER OF ANY VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION

STRUCTURAL PLANS

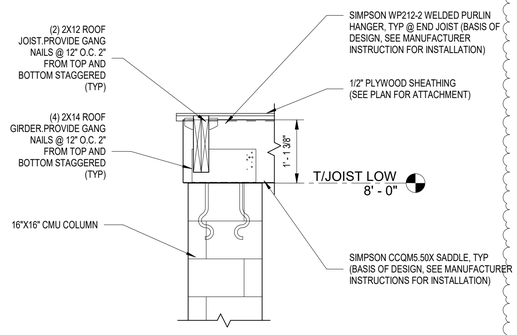
S-101



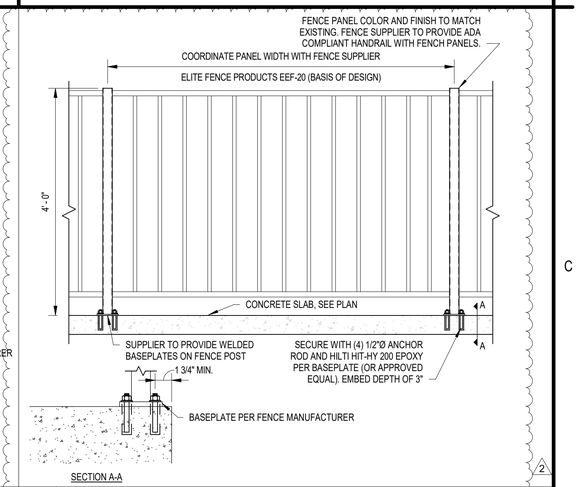
C1 STOREFRONT HEADER SECTION
SCALE: 3/4" = 1'-0"



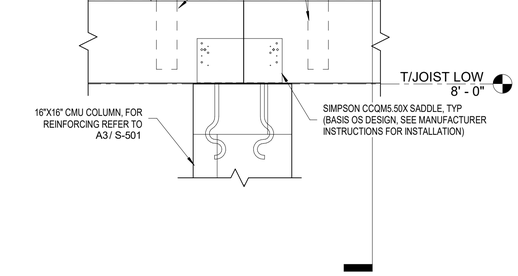
C2 TUBE CONNECTION @ CONC. WALL
SCALE: 1 1/2" = 1'-0"



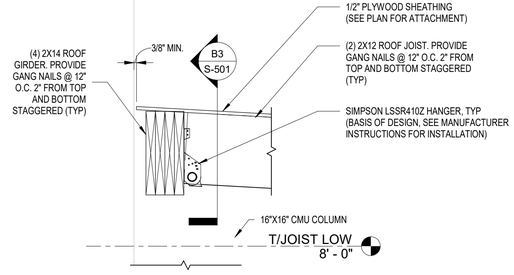
C3 END JOIST TO GIRDER CONNECTION
SCALE: 3/4" = 1'-0"



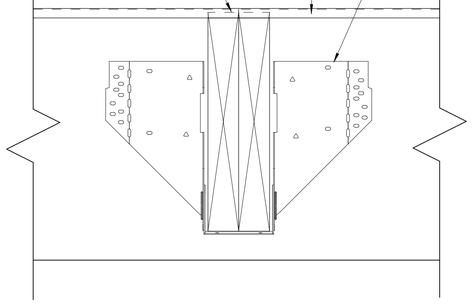
C4 TYPICAL FENCE PANEL
SCALE: 3/4" = 1'-0"



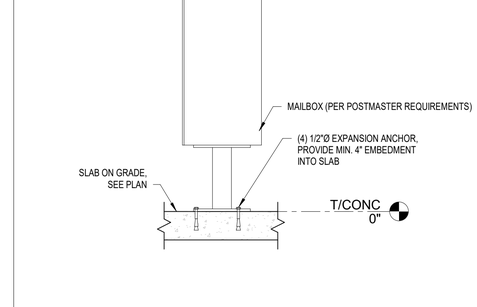
B1 GIRDER TO COLUMN CONNECTION
SCALE: 1" = 1'-0"



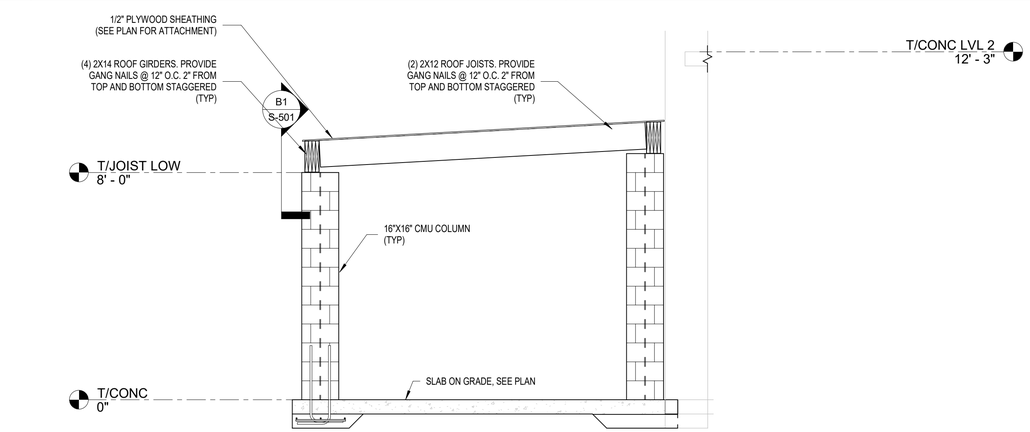
B2 JOIST TO GIRDER CONNECTION
SCALE: 1" = 1'-0"



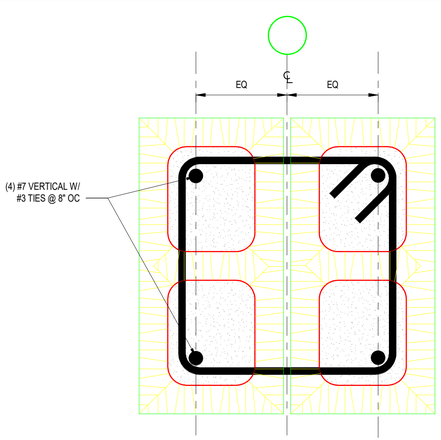
B3 TYP JOIST TO GIRDER CONNECTION
SCALE: 3" = 1'-0"



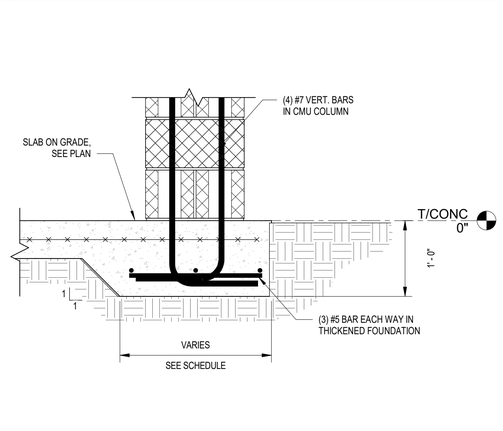
B4 MAILBOX ATTACHMENT DETAIL
SCALE: 3/4" = 1'-0"



A1 TYP CANOPY SECTION
SCALE: 3/8" = 1'-0"



A3 16" CMU COLUMN REINFORCING
SCALE: 3" = 1'-0"



A4 TYPICAL THICKENED FOUNDATION SECTION
SCALE: 1" = 1'-0"

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BRANDON C. WARNER
93500

CLEARWATER HOUSING AUTHORITY

BARBEE TOWERS MAIL STRUCTURE & FIRST FLOOR MODIFICATIONS
CLEARWATER HOUSING AUTHORITY
1100 DRUID ROAD, CLEARWATER, FL 33756

MARK	DATE	DESCRIPTION
2	02/20/2024	OWNER COMMENTS
REVISIONS		

PROJECT NO:	Y97.002.001
DATE:	12/19/2023
DRAWN BY:	A. AVELLANEDA
DESIGNED BY:	B. WARNER, PE
CHECKED BY:	K. STEGMEIEIR II, PE

CONTRACTOR SHALL VERIFY ALL CONDITIONS ON JOB SITE & NOTIFY THE OWNER OF ANY VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION

STRUCTURAL DETAILS

S-501

ABBREVIATIONS:

AAD	AUTOMATIC AIR DAMPER	DTR	DUAL TEMPERATURE WATER RETURN	HPC	HIGH PRESSURE CONDENSATE	RAD	RADIATOR, RADIANT PANEL
AC	AIR CONDITIONING	DTS	DUAL TEMPERATURE WATER SUPPLY	HR	HUMIDITY RATIO, HOUR	RCP	RADIANT CEILING PANEL
ACV	AIR CONTROL VALVE	DWH	DOMESTIC WATER HEATER	HRU	HEAT RECOVERY UNIT	RH	RELATIVE HUMIDITY
AFF	ABOVE FINISHED FLOOR	DX	DIRECT EXPANSION	HUM	HUMIDIFIER	RHC	REHEAT COIL
AHU	AIR HANDLING UNIT	EAT	ENTERING AIR TEMPERATURE	HWC	HOT WATER COIL	RPM	REVOLUTIONS PER MINUTE
AMP	AMPERES	EBB	ELECTRIC BASE BOARD	HWR	HOT WATER SUPPLY	RTH	RADIANT TUBE HEATER
APD	AIR PRESSURE DROP	EC	EXPANSION COMPENSATOR	HWS	HOT WATER RETURN	RTU	ROOFTOP UNIT
AS	AIR SEPERATOR	EDB	ENTERING DRY BULB TEMPERATURE	HX	HEAT EXCHANGER	SA	SUPPLY AIR
B	BOIL	EFF	EFFICIENCY	HZ	HERTZ	SD	SMOKE DAMPER
BD	BYPASS DAMPER	ENC	ENCLOSURE	IN	INCH	SHC	SENSIBLE HEAT CAPACITY
BDD	BACK DRAFT DAMPER	ERV	ENERGY RECOVERY UNIT	IND	INDUCTION UNIT	SP	STATIC PRESSURE
BHP	BRAKE HORSE POWER	ESP	EXTERNAL STATIC PRESSURE	KH	KILN HOOD	SQ	SQUARE
BOD	BOTTOM OF DUCT	ET	EXPANSION TANK	KW	KILOWATT	SRV	STATIONARY ROOF VENT
BTU	BRITISH THERMAL UNIT	EWB	ENTERING WET BULB TEMPERATURE	LAT	LEAVING AIR TEMPERATURE	SS	SOLIDS SEPERATOR
C	COMMON	EWT	ENTERING WATER TEMPERATURE	LB	POUND	TD	TRIPLE DUTY VALVE
CCU	CEILING CASSETTE UNIT	EXH	EXHAUST	LDB	LEAVING DRY BULB TEMPERATURE	TDH	TOTAL DYNAMIC HEAD
CD	COLD CONDENSATE DRAIN	EXIST	EXISTING	LPC	LOW PRESSURE CONDENSATE	THC	TOTAL HEAT CAPACITY
CDWR	CONDENSER WATER RETURN	F	FAN	LPS	LOW PRESSURE STEAM	TSP	TOTAL STATIC PRESSURE
CDWS	CONDENSER WATER SUPPLY	ºF	FAHRENHEIT	LV	LOUVER	TYP	TYPICAL
CFM	CUBIC FEET PER MINUTE	F&T	FLOAT AND THERMOSTATIC TRAP	LWB	LEAVING WET BULB TEMPERATURE	UH	UNIT HEATER
CGR	CHILLED GLYCOL RETURN	FC	FLEXIBLE CONNECTION	LWT	LEAVING WATER TEMPERATURE	UV	UNIT VENTILATOR
CGS	CHILLED GLYCOL SUPPLY	FCU	FAN COIL UNIT	MAU	MAKEUP AIR UNIT	V	VOLT
CH	CHILLER	FD	FIRE DAMPER	MAX	MAXIMUM	VAL	VALANCE UNIT
CHWR	CHILLED WATER RETURN	FIL	FILTER	MBH	1000 BTUH	VAV	VARIABLE AIR VOLUME
CHWS	CHILLED WATER SUPPLY	FMS	FLOW MEASURING STATION	MCA	MAXIMUM CIRCUIT AMPACITY	VD	VOLUME DAMPER
CO	CLEANOUT	FPM	FEET PER MINUTE	MIN	MINIMUM	VIF	VERIFY IN FIELD
CONV	CONVECTOR	FR	FURNACE	MOCP	MAXIMUM OVER CURRENT PROTECTION	VP	VACUUM PUMP
CP	CONDENSATE PUMP	FSD	COMBINATION FIRE/SMOKE DAMPER	MV	MANUAL VENT	VSD	VARIABLE SPEED DRIVE
CT	COOLING TOWER	FT	FEET	NC	NORMALLY CLOSED/ NOISE CRITERIA	VUV	VERTICAL UNIT VENTILATOR
CU	CONDENSING UNIT	FTR	FIN TUBE RADIATION	NO	NORMALLY OPEN/ NUMBER	WB	WET BULB TEMPERATURE
CUH	CABINET UNIT HEATER	GAL	GALLONS	OA	OUTSIDE AIR	WCU	WALL CASSETTE UNIT
DB	DRY BULB TEMPERATURE	GC	GENERAL CONTRACTOR	P	PRESSURE	WFS	WATER FLOW SWITCH
dB	DECIBELS	GPM	GALLONS PER MINUTE	PD	PRESSURE DROP	WG	WATER GAUGE
DC	DUST COLLECTOR	GR	GRAINS	PG	PROPYLENE GLYCOL	WH	WALL HEATER
DIA	DIAMETER	HD	HEAD	PH	PHASE	WPD	WATER PRESSURE DROP
DN	DOWN	HGR	HOT GLYCOL RETURN	PSI	POUNDS PER SQUARE INCH	WWM	WELDED WIRE MESH
DP	DEWPOINT TEMPERATURE	HGS	HOT GLYCOL SUPPLY	PTAC	PACKAGED TERMINAL AIR CONDITIONER	ZD	ZONE DAMPER
DSD	DUCT SMOKE DETECTOR	HP	HORSEPOWER	RA	RETURN AIR		

NOTE: NOT ALL ABBREVIATIONS USED.

B1 ABBREVIATIONS
SCALE: NOT TO SCALE

1. ALL WORK SHALL CONFORM TO ALL APPLICABLE RULES, REGULATIONS AND CODES, INCLUDING, BUT NOT LIMITED TO THE APPLICABLE FLORIDA ENERGY CODE, AND FLORIDA BUILDING CODES.
2. ALL EQUIPMENT SHALL COMPLY WITH THE PROVISIONS OF THE APPLICABLE FLORIDA ENERGY CODE. ALL SUBMITTALS FOR EQUIPMENT COVERED BY THE CODE SHALL INCLUDE THE MANUFACTURER'S STATEMENT OF CONFORMANCE TO THE CODE.
3. FIELD VERIFY ALL DIMENSIONS PRIOR TO DUCTWORK FABRICATION OR ANY OTHER MECHANICAL WORK. MECHANICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF EQUIPMENT, PIPING, DUCTWORK, AND PADS WITH OTHER CONTRACTORS. PROVIDE FITTINGS, ELEVATION CHANGES, TRANSITIONS, AND OFFSETS REQUIRED, WHETHER SHOWN OR NOT, TO AVOID CONFLICTS WITH WORK OF OTHER CONTRACTS.
4. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL HVAC PENETRATIONS (PIPING, DUCTWORK, ETC) IN ACCORDANCE WITH THE BUILDING CODE OF FLORIDA, AND WHERE SHOWN OR SPECIFIED.
5. ITEMS OF SPECIFIC MANUFACTURER'S SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE PRINTED INSTRUCTIONS AND/OR MANUFACTURER'S REPRESENTATIVES DIRECTIONS.
6. MECHANICAL CONTRACTOR TO INSTALL ALL NECESSARY STIFFENERS, BRACES, STRUTS, ETC, WHETHER SHOWN OR NOT, TO PROVIDE A COMPLETE, SAFE, AND DURABLE SYSTEM.
7. DIMENSIONS SHOWN "AFF" INDICATE THE ACTUAL CLEAR DIMENSIONS FROM THE BOTTOM OF THE ITEM TO THE FINISHED FLOOR ELEVATION; UNLESS INDICATED OTHERWISE.
8. SUPPORT AND EQUIPMENT DETAILS MAY VARY TO SUIT EQUIPMENT AND PARTS SUPPLIED.
9. WELD ALL STEEL ANGLE JOINTS UNLESS OTHERWISE SHOWN.
10. PROVIDE NECESSARY BY-PASSES AND BALANCING MEANS AS REQUIRED TO ASSURE PROPER SYSTEM OPERATION.
11. ALL DUCT DIMENSIONS SHOWN ARE "SIDE SEEN" BY "SIDE NOT SEEN" AND ARE THE CLEAR INSIDE DIMENSIONS UNLESS OTHERWISE NOTED.
12. PROVIDE ACCESS DOORS AND CLEARANCES FOR EASY ACCESS TO ALL FIRE DAMPERS, CONTROL DAMPERS, LOUVERS, FILTERS, COILS, AND FANS.
13. BRANCH DUCTS TO GRILLES, DIFFUSERS OR REGISTERS SHALL BE THE SAME SIZE AS GRILLE, DIFFUSER OR REGISTER NECK SIZE UNLESS INDICATED OTHERWISE.
14. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PRECISE LOCATION OF DIFFUSERS AND REGISTERS.
15. PROVIDE MANUAL VOLUME DAMPERS IN ALL BRANCH TAKE-OFFS AND WHERE SHOWN.
16. PROVIDE ALL CONTROL AND INTERLOCK WIRING REQUIRED OR SPECIFIED THAT IS NOT PROVIDED BY THE ELECTRICAL CONTRACTOR.
17. COORDINATE WITH ELECTRICAL CONTRACTOR AND FIRE PROTECTION CONTRACTOR REGARDING THE RESPONSIBILITIES FOR SUPPLYING, INSTALLING AND WIRING OF HVAC-RELATED DISCONNECT SWITCHES, STARTERS, SAFETY INTERLOCKS, EMERGENCY SHUTDOWN AND WIRING.
18. WORK ON M-SERIES DRAWINGS IS BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.
19. VERIFY ALL LOCATIONS, DIMENSIONS, EQUIPMENT ARRANGEMENTS, CLEARANCES AND ELECTRICAL CHARACTERISTICS IN THE FIELD PRIOR TO BID. PROMPTLY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
20. PRIOR TO CUTTING THROUGH FLOORS AND WALLS, THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL STRUCTURAL MEMBERS, JOISTS, AND OR COLUMNS. PROMPTLY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. DO NOT CUT ANY STRUCTURAL MEMBERS UNLESS SPECIFICALLY DIRECTED TO DO SO.
21. THE MECHANICAL CONTRACTOR SHALL REMOVE DUCTWORK BACK TO A POINT WHICH WILL ALLOW THE INSTALLATION OF SUPPORT STEEL THAT IS REQUIRED / RELATED TO THE HVAC EQUIPMENT. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR IN THE LOCATIONS WHICH WILL REQUIRE MECHANICAL SUPPORT STEEL.
22. INSTALL ALL NEW DUCT AND PIPE WITHIN EXISTING OPENINGS SUCH THAT IT ALLOWS AS MUCH SPACE AS POSSIBLE TO ONE SIDE WHICH MAY ALLOW PASSAGE.
23. ALL EXISTING-TO-REMAIN DIFFUSERS AND DUCT SYSTEMS TO BE REBALANCED TO CFM INDICATED.
24. PATCH AND SEAL DUCT WHERE BRANCHES / TAKEOFFS HAVE BEEN REMOVED AND NO NEW CONNECTION IS NEEDED.
25. CAP AND SEAL PIPING WHERE BRANCHES / TAKEOFFS HAVE BEEN REMOVED AND NO NEW CONNECTION IS NEEDED.

B4 GENERAL NOTES
SCALE: NOT TO SCALE

A1 NOT USED
SCALE: NOT TO SCALE

A2 SYMBOLS
SCALE: NOT TO SCALE

PIPING

- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- NEEDLE VALVE
- PRESSURE RELIEF VALVE
- MANUAL AIR VENT
- AUTOMATIC AIR VENT
- PRESSURE GAUGE
- THERMOMETER
- FLEXIBLE PIPE CONNECTOR
- UNION
- REDUCER
- STRAINER
- TRIPLE DUTY VALVE
- TWO-WAY CONTROL VALVE
- THREE-WAY CONTROL VALVE
- PIPE DROP
- PIPE RISER
- PIPE ANCHOR
- PIPE GUIDE
- PIPE CAP
- CALIBRATED FLOW BALANCING VALVE
- INLINE PUMP
- AIR SEPARATOR
- BASE MOUNTED PUMP

DUCTWORK

- RETURN DIFFUSER
- SUPPLY DIFFUSER
- EXHAUST DIFFUSER
- SQUARE TO ROUND DUCT TRANSITION
- SQUARE MAIN TO ROUND BRANCH TAKE-OFF
- FC — FLEXIBLE DUCT CONNECTOR
- POSITIVELY PRESSURIZED DUCT OUT OF THE PLANE
- POSITIVELY PRESSURIZED DUCT INTO THE PLANE
- NEGATIVELY PRESSURIZED DUCT OUT OF THE PLANE
- NEGATIVELY PRESSURIZED DUCT INTO THE PLANE
- SQUARE ELBOW WITH TURNING VANES
- MANUAL VOLUME DAMPER
- AAD — AUTOMATIC AIR DAMPER
- TYPE / CFM / NECK SIZE / (TYPICAL OF) — DIFFUSER DESIGNATION
- UNIT — GENERAL EQUIPMENT DESIGNATION

GENERAL

- NEW PIPING
- DISCONNECT FROM EXISTING
- CONNECT TO EXISTING
- T — THERMOSTAT
- R — REFRIGERANT DETECTOR
- SD — SMOKE DETECTOR
- DIRECTION OF AIRFLOW
- X — KEYNOTE
- VIEW / SHEET — ENLARGED PLAN & DETAIL CALL OUT
- VOLUME DAMPER
- FIRE DAMPER

DUCT SYSTEMS

- SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
- OUTDOOR AIR

NOTE: NOT ALL SYMBOLS USED.

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TO THE BEST OF THE ARCHITECTS AND ENGINEER'S KNOWLEDGE, THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE-SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH FBC SECTION 110.3 AND CHAPTER 633 OF THE FLORIDA STATUTES.

PETER M. ROWAN, PE
92652

CLEARWATER HOUSING AUTHORITY

BARBEE TOWERS MAIL STRUCTURE & FIRST FLOOR MODIFICATIONS
1100 DRUID ROAD
CLEARWATER, FL 33756

MARK	DATE	DESCRIPTION

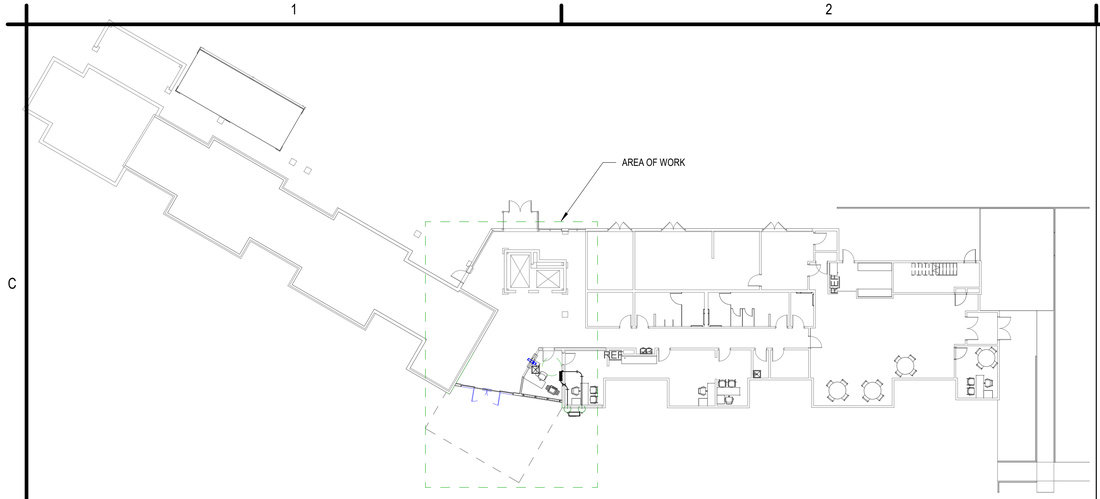
REVISIONS

PROJECT NO: Y97.002.001
DATE: 12/19/2023
DRAWN BY: P. ROWAN, PE
DESIGNED BY: P. ROWAN, PE
CHECKED BY: M. MCQUINN, PE

CONTRACTOR SHALL VERIFY ALL CONDITIONS ON JOB SITE & NOTIFY THE OWNER OF ANY VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION

LEGEND, ABBREVIATIONS AND GENERAL NOTES

M-001



C2 OVERALL PLAN
SCALE: 1" = 20'-0"

DX MINI-SPLIT SCHEDULE

MARK	TYPE	NOMINAL CAP. (TONS)	VOLTS	PHASE	MCA	MOCP	WEIGHT (LBS) (INDOOR / OUTDOOR)	EFFICIENCY RATING (EER/SEER)	BASIS OF DESIGN		REMARKS
									MANUFACTURER	MODEL	
FCU-1/CU-FCU-1	WALL MOUNTED MINI-SPLIT	3/4	208 V	1	12	20	25/75	15.5/24.5	SAMSUNG	AR09CSDABWKNCV / AR09CSDABWKXCV	ALL

REMARKS:
1. INDOOR UNIT TO BE POWERED FROM OUTDOOR UNIT. COORDINATE POWER ROUTING WITH ELECTRICAL CONTRACTOR.
2. INSTALL PER MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS.
3. CONTRACTOR SHALL INSTALL EQUIPMENT TO COMPLY WITH REQUIRED ELECTRICAL CLEARANCES FOR THIS OR SURROUNDING EQUIPMENT. FIELD COORDINATE PRIOR TO INSTALLATION.
4. SEE ELECTRICAL DRAWINGS FOR DISCONNECT.
5. ALL REFRIGERANT PIPING SHALL BE SIZED PER THE MANUFACTURERS REQUIREMENTS.
6. CONDENSING UNIT AND FAN COIL UNIT FOLLOW THE SAME NUMBERING SEQUENCE. EXAMPLE: FCU-1 IS PAIRED WITH CU-1. CONFER WITH OWNER REGARDING PREFERRED DESIGNATION AND PROVIDE PHENOLIC LABEL ON THE INDOOR AND OUTDOOR UNITS, INCLUDING ELECTRICAL PANEL AND CIRCUIT SUPPLYING THE CONDENSING UNIT.

(1)

DUCT CONSTRUCTION SCHEDULE

SERVICE	SMACNA PRESSURE CLASS	MATERIAL	ALLOWABLE SEAMS	SEALING REQUIREMENTS	INSULATION	NOTES
SUPPLY/MAKE-UP AIR DUCTS						
ALL CONCEALED DUCTWORK	+ 2"	SINGLE WALL SHEET METAL	STANDING, DOUBLE-CORNER AND PITTSBURGH-LOCK AND ALL OTHER ROLLED MECHANICAL SEAMS	MASTIC WITH EMBEDDED FABRIC OR GASKETS	2" THICK EXTERNAL WRAP	(1)(2)

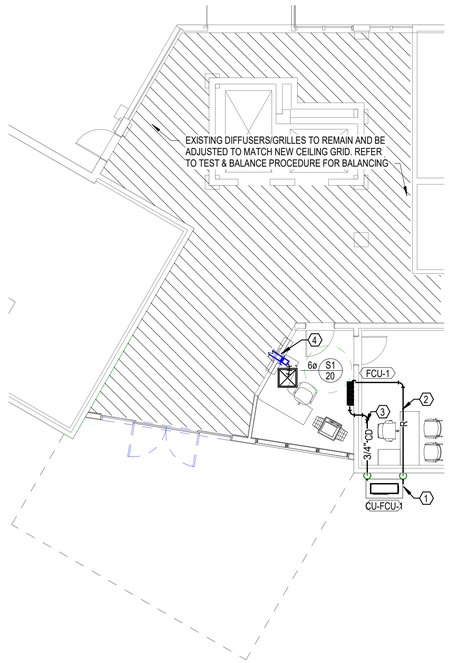
NOTES:
(1) ALL DUCTWORK IS TO BE FABRICATED, SUPPORTED AND INSTALLED PER SMACNA STANDARDS AND 2020 FLORIDA MECHANICAL CODE REQUIREMENTS.
(2) DUCTWORK TO BE G90 GALVANIZED SHEET METAL.

DIFFUSER/GRILLE SCHEDULE

MARK / LEGEND	TYPE	MFG.	MODEL	NOTES
NECK SIZE — 12"Ø — S1 — MARK QUANTITY TYP — (2) — 200 — CFM	ROUND NECK , SQUARE CEILING SUPPLY DIFFUSER	PRICE	ASCD	ALL

1. PROVIDE 24X24 FULLY LOUVERED FACE LAYIN MODULE WHERE LOCATED IN LAYIN CEILING OR SUSPENDED FROM DUCTWORK.
2. FACTORY INSULATED BACKS ON ALL CEILING DIFFUSERS MUST BE PROVIDED.
3. COORDINATE BORDER TYPES WITH ARCHITECTURAL FLOOR PLAN AND REFLECTED CEILING PLAN.
4. COORDINATE FINISH WITH ARCHITECTURAL. CUSTOM COLOR MAY BE REQUIRED.
5. WHERE DIFFUSER BALANCING DAMPER IS INACCESSIBLE, PROVIDE A CONCEALED REMOTE OPERATOR SIMILAR TO YOUNG REGULATOR 270-301 BESIDE DIFFUSER/GRILLE.

B4 GENERAL NOTES
SCALE: NOT TO SCALE



B3 HVAC WORK PLAN
SCALE: 1/8" = 1'-0"

TEST AND BALANCE PROCEDURE

1. CONTRACTOR SHALL PERFORM AN INITIAL TEST AND BALANCE OF THE EXISTING DIFFUSERS/GRILLES PRIOR TO RELOCATION. INTENT IS TO HAVE THE RELOCATED/ADJUSTED DIFFUSERS BALANCED AS CLOSE AS POSSIBLE TO EXISTING CFM.

2. FOLLOWING RELOCATION/INSTALLATION OF NEW DIFFUSERS, CONTRACTOR SHALL PERFORM AN ADDITIONAL TEST AND BALANCE ON THE SYSTEM. CONTRACTOR TO MATCH RECORDED AIR FLOWS DURING INITIAL TEST AND BALANCE.

1. REFER TO M-001 FOR LEGEND, ABBREVIATIONS, & GENERAL NOTES.

C4 GENERAL NOTES
SCALE: NOT TO SCALE

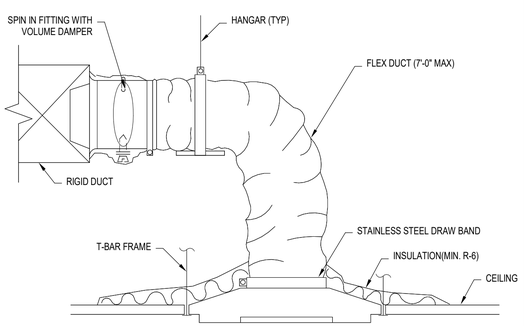
(1) PROVIDE NEW 6" CONCRETE HOUSEKEEPING PAD BENEATH EQUIPMENT. PAD SHALL EXTEND 6" PAST UNIT ON ALL SIDE. FASTEN EQUIPMENT TO HOUSEKEEPING PAD BASED ON MANUFACTURER REQUIREMENTS. REFER TO STRUCTURAL PLANS FOR HOUSEKEEPING PAD DETAIL.

(2) ROUTE REFRIGERANT LINESET FROM CONDENSING UNIT TO UNIT. SIZE LINESET PER MANUFACTURER'S RECOMMENDATIONS. INSULATE SUCTION LINE WITH 1" THICK ELASTOMERIC INSULATION EQUAL TO "AEROCEL" BY AEROFLEX.PROVIDE WITH EMBOSSED ALUMINUM JACKET WHERE OUTSIDE THE FACILITY OR BELOW 7' A.F.F..

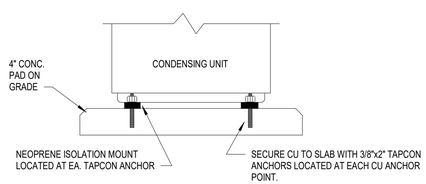
(3) ROUTE SCHEDULE 80 PVC CONDENSATE DRAIN LINE WITH P-TRAP FROM UNIT WITH INTEGRAL CONDENSATE PUMP TO HARDSCAPE IN NON-INSTRUSIVE LOCATION. TURN DOWN AND TERMINATE WITH 1" AIR GAP. INSULATE ENTIRE LENGTH OF PIPE WITH 1" THICK ELASTOMERIC INSULATION EQUAL TO "AEROCEL" BY AEROFLEX.

(4) ROUTE NEW 6"Ø TO EXISTING S/A LOBBY OUTDOOR AIR SYSTEM LOCAL TO AREA OF WORK.

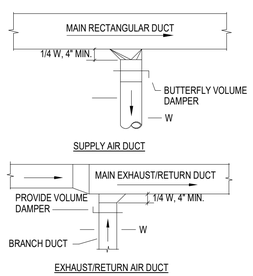
B4 KEY NOTES
SCALE: NOT TO SCALE



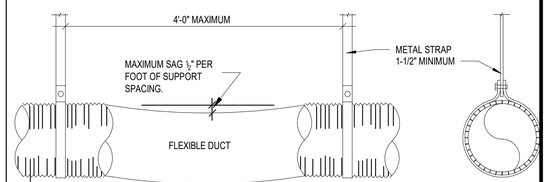
A1 FLEXIBLE DUCT TO DIFFUSER DETAIL
SCALE: NOT TO SCALE



A2 CU ATTACHMENT DETAIL
SCALE: 12" = 1'-0"



A3 BRANCH CONNECTION DETAIL
SCALE: NOT TO SCALE



NOTES:
1. DUCT SHOULD EXTEND STRAIGHT FOR SEVERAL INCHES FROM A CONNECTION BEFORE BENDING.
2. SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE.

A4 FLEXIBLE DUCT SUPPORT DETAIL
SCALE: NOT TO SCALE

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CLEARWATER HOUSING AUTHORITY

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1100 DRUID ROAD
CLEARWATER, FL 33756

MARK	DATE	DESCRIPTION
1	01/19/2024	PERMIT COMMENTS

REVISIONS

PROJECT NO: Y97.002.001
DATE: 12/19/2023
DRAWN BY: P. ROWAN, PE
DESIGNED BY: P. ROWAN, PE
CHECKED BY: M. MCQUINN, PE

CONTRACTOR SHALL VERIFY ALL CONDITIONS ON JOB SITE & NOTIFY THE OWNER OF ANY VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION

MECHANICAL WORK PLAN

M-101

Potential Eligibility for IRA Tax Credit*

Certificate of Product Ratings

AHRI Certified Reference Number : 210445757 Date : 01-17-2024 Model Status : Active

AHRI Type : HRCU-A-CB-O (Mini-Split Heat Pump, with Remote Outdoor Unit Air-Source, Free Delivery)

Series Name : WindFree™ 3.0 (RAC)

Outdoor Unit Brand Name : SAMSUNG

Outdoor Unit Model Number : AR09CSDABWKX

Indoor Type : Mini-Splits (Non-Ducted)

Indoor Model Number(s) : AR09CSDABWKN

Rated as follows in accordance with the latest edition of AHRI 210/240 - 2017 with Addendum 1, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A2) - Single or High Stage (95F), btuh : 9000

SEER : 24.50

EER (A2) - Single or High Stage (95F) : 15.50

Heating Capacity (H12) - Single or High Stage (47F) : 11000

HSPF (Region IV) : 12.50

Rated as follows in accordance with the latest edition of AHRI 210/240 – 2023, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A_{Full}) – Single or High Stage (95F), btuh : 9000

SEER2 : 24.50

EER2 (A_{Full}) – Single or High Stage (95F) : 15.50

Heating Capacity ($H1_{Full}$) – Single or High Stage (47F), btuh : 11000

HSPF2 (Region IV) : 10.50

Sold in? : USA, Canada

†"Active" Model Status are those that an AHRI Certification Program Participant is currently producing AND selling or offering for sale; OR new models that are being marketed but are not yet being produced."Production Stopped" Model Status are those that an AHRI Certification Program Participant is no longer producing BUT is still selling or offering for sale.

Ratings that are accompanied by WAS indicate an involuntary re-rate. The new published rating is shown along with the previous (i.e. WAS) rating.

The Department of Energy has published updated energy efficiency metrics for central air conditioners and heat pumps. This publication reflects both the 1987 metric (SEER) and the 2023 metric (SEER2). Efficiency requirements are published at 10 C.F.R. 430.32(c). Please refer to www.AHRInet.org for more information about updated energy efficiency metrics.

*This refers to the federal tax credit that may be known to consumers as "Inflation Reduction Act (IRA) of 2022 Tax Credit," "25C Tax Credit," or "Energy Efficient Home Improvement Credit." This is not intended to constitute tax or legal advice. Instead, it is for general informational purposes only. AHRI makes no representation or warranty, express or implied or assumes any legal liability or responsibility for the accuracy, completeness, any third party's use of, or the results of the use of potential eligibility for tax credit disclosed on the AHRI Directory of Certified Product Performance and AHRI Certificate of Product Ratings. Potential eligibility for tax credit may not constitute the most up to date information. AHRI is unable to advise or confirm tax credit eligibility. Individuals considering eligibility for the tax credit are advised to confirm eligibility with their equipment installers, tax attorneys or preparers.

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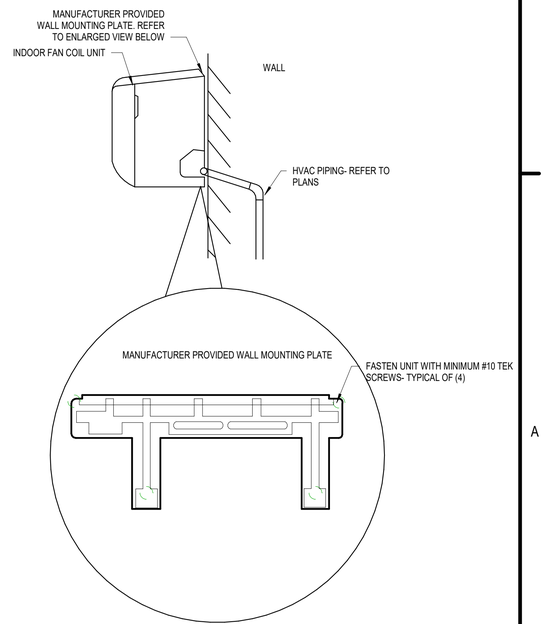
CERTIFICATE NO.: 13349978824025741

A2 SAMSUNG MINI-SPLIT AHRI CERTIFICATE

SCALE: NOT TO SCALE



A4 MINI-SPLIT MOUNTING DETAIL

SCALE: NOT TO SCALE

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TO THE BEST OF THE ARCHITECTS AND ENGINEER'S KNOWLEDGE, THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE-SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH FBC SECTION 110.3 AND CHAPTER 633 OF THE FLORIDA STATUTES.

PETER M. ROWAN, PE
92652

CLEARWATER HOUSING AUTHORITY

BARBEE TOWERS MAIL STRUCTURE & FIRST FLOOR MODIFICATIONS
1100 DRUID ROAD
CLEARWATER, FL 33756

MARK	DATE	DESCRIPTION
1	01/19/2024	PERMIT COMMENTS

REVISIONS

PROJECT NO:	Y97.002.001
DATE:	12/19/2023
DRAWN BY:	P. ROWAN, PE
DESIGNED BY:	P. ROWAN, PE
CHECKED BY:	M. MCQUINN, PE

CONTRACTOR SHALL VERIFY ALL CONDITIONS ON JOB SITE & NOTIFY THE OWNER OF ANY VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION

MINISPLIT MOUNTING DETAIL & AHRI INFORMATION

1

M-501

1. 2020 FLORIDA BUILDING CODE, SEVENTH EDITION (FBC)
2. 2020 FLORIDA BUILDING CODE - ENERGY CONSERVATION, SEVENTH EDITION (FBC-EC)
3. NFPA 70 - 2017, NATIONAL ELECTRICAL CODE (NEC)

C1 CODE AUTHORITY

SCALE: NOT TO SCALE

1. THE CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSAL SO AS TO BECOME FAMILIAR WITH EXISTING WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COORDINATION WITH OTHER TRADES IN EQUIPMENT ROUTING AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ARCHITECT/ENGINEER MAY BE NECESSARY AND ALL REQUIRED COORDINATION BETWEEN TRADES SHALL BE CONSIDERED AS PART OF THIS CONTRACT. IT IS ALSO UNDERSTOOD THAT THE PLANS ARE NOT COMPLETELY TO SCALE. FIELD VERIFY DIMENSIONS OF ALL EXISTING CONDITIONS, PRIOR TO BID AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.
2. ALL DEVICES AND EQUIPMENT NOT SHOWN AND IN AREAS OUTSIDE OF THE SCOPE OF WORK SHALL REMAIN ACTIVE UNLESS OTHERWISE NOTED. INSTALL TEMPORARY SERVICES AS REQUIRED TO MAINTAIN CONTINUITY TO EXISTING DEVICES AND EQUIPMENT THAT REMAIN.
3. ALL EQUIPMENT AND MATERIAL REMOVED AND NOT REUSED SHALL BE TURNED OVER TO THE OWNER OR AT THE OWNERS REQUEST DISPOSED OF BY THE CONTRACTOR.
4. ALL ELECTRICAL DEVICES THAT ARE REMOVED SHALL BE REMOVED AS DIRECTED BY THE OWNER, AND CEILING OR WALL SHALL BE PATCHED OR PAINTED AS DIRECTED BY ARCHITECT.
5. ALL EXISTING ELECTRICAL EQUIPMENT MAY NOT BE SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO BID, AND INCLUDE IN HIS BID THE REMOVAL OF ALL EQUIPMENT, CONDUIT, WIRE, ETC. THAT IS NOT BEING REUSED BACK TO ITS SOURCE.
6. ALL CONCRETE, WALL PATCHING, CEILING REPAIR, AND OTHER GENERAL WORK REQUIRED FOR INSTALLING THE ELECTRICAL SYSTEMS AND TO REPAIR TO "LIKE NEW CONDITION" TO BE PROVIDED BY ELECTRICAL CONTRACTOR. (COORDINATE WITH GENERAL CONTRACTOR).
7. PROVIDE ANY ADDITIONAL HANGERS/SUPPORTS REQUIRED TO ACCOMMODATE ANY EQUIPMENT RELOCATION.
8. COORDINATE ALL CEILING MOUNTED DEVICES WITH ARCHITECTURAL REFLECTED CEILING AND WORK OF ALL OTHER TRADES.

B1 ELECTRICAL DEMOLITION NOTES

SCALE: NOT TO SCALE

1. VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.
2. UTILITIES AND SERVICES INDICATED ARE TAKEN FROM FIELD INVESTIGATION. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING AND/OR BURIAL DEPTHS, AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ARCHITECT/ENGINEER, MAY BE NECESSARY. THIS CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS PRIOR TO BID.
3. ELECTRICAL CONTRACTOR SHALL TRACE LIGHTING AND POWER BRANCH CIRCUITS TO IDENTIFY CIRCUITS SERVING AREA WITHIN SCOPE OF WORK. PROVIDE UPDATED TYPEWRITTEN PANEL SCHEDULES AT COMPLETION OF WORK.
4. REMOVE EXISTING POWER, LIGHTING, SYSTEMS, MATERIAL, AND EQUIPMENT WHICH ARE MADE OBSOLETE BY WORK OF THIS CONTRACT OR WHICH INTERFERE WITH THE CONSTRUCTION OF THE PROJECT.
5. PROVIDE A BLANK COVER PLATE FOR ALL BOXES WITHOUT DEVICES.
6. ALL UNUSED RACEWAYS WITHIN ACCESSIBLE SPACES SHALL BE COMPLETELY REMOVED. REMOVE ALSO ASSOCIATED CONDUCTORS, JUNCTION BOXES, FASTENERS AND SUPPORTS.

A1 EXISTING CONDITIONS NOTES

SCALE: NOT TO SCALE

1. INSTALLATION SHALL CONFORM TO ALL NATIONAL, STATE, AND OTHER APPLICABLE LOCAL CODES AND ORDINANCES ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
2. THESE PLANS ARE DIAGRAMMATIC AND ARE INTENDED TO CLARIFY THE SCOPE OF WORK. PROVIDE ALL NECESSARY EQUIPMENT, ACCESSORIES, FITTINGS, TRANSITIONS, ETC. FOR A COMPLETE AND OPERATIONAL INSTALLATION AS PER THESE PLANS AND ANY SPECIFICATIONS. ALL WORK IS NEW UNLESS OTHERWISE NOTED.
3. CONSTRUCTION DOCUMENTS REPRESENT THE CONSULTANT'S DESIGN INTENT. IT IS NOT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO IDENTIFY EACH AND EVERY DETAIL OF THE ELECTRICAL CONSTRUCTION. PROVIDE ALL NECESSARY EQUIPMENT AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND DIMENSIONS SHOWN ON DRAWINGS
5. ALL CONDUIT AND WIRING SCHEDULES SHALL BE VERIFIED BEFORE INSTALLATION.
6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS AND TRADES PRIOR TO THE INSTALLATION OF ALL EQUIPMENT IN ORDER TO AVOID CONFLICTS DURING CONSTRUCTION.
7. ALL AREAS DISTURBED BY WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN ORIGINAL AS DETERMINED BY THE ENGINEER.
8. ALL ELECTRICAL CONDUIT AND CONDUCTORS DISCONNECTED AND NOT TO BE REUSED SHALL BE REMOVED.
9. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS BEFORE STARTING WORK. IF ONLY A PORTION OF AN EXISTING CIRCUIT IS BEING REMOVED FOR DEMOLITION, CONTINUITY SHALL BE MAINTAINED TO THE REST OF THE REMAINING CIRCUIT.
10. ALL DISCONNECTS SHALL HAVE A GROUND BAR. ALL DISCONNECTS SHALL BE CLEARLY LABELED WITH THE NAME AND LOCATION OF THE EQUIPMENT THAT THEY SERVE.
11. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED SUCH THAT THERE IS SUFFICIENT CLEAR SPACE FOR MAINTENANCE, PROVIDE MINIMUM NEC WORKING CLEARANCE IN FRONT OF ALL PANELBOARDS, SWITCHES, ETC PER NEC CODE 110.26.
12. ALL ELECTRICAL PANELS, SWITCHGEAR, DISCONNECTS AND TERMINAL CABINETS SHALL BE IDENTIFIED WITH A PERMANENTLY AFFIXED NAME PLATE INDICATING VOLTAGE, AMPERES, MANUFACTURER, MODEL NUMBER AND THE NAME AND FEEDER SOURCE.
13. THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS OF FIRE-RATED PARTITIONS (WALLS, FLOORS OR CEILINGS) WITH AN APPROVED FIRESTOP SYSTEM RATED FOR THE APPLICATION. THE FIRESTOP SYSTEM SHALL BE UL LISTED AND INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
14. ALL LIGHTING FIXTURES AND GENERAL PURPOSE RECEPTACLES IN MECHANICAL, ELECTRICAL AND EQUIPMENT ROOMS SHALL BE FIELD LOCATED TO SUIT EQUIPMENT CONDITIONS AND EQUIPMENT LOCATIONS.
15. ALL RACEWAYS SHALL BE RUN IN NEAT AND WORKMAN-LIKE MANNER AND SHALL BE PROPERLY SUPPORTED.
16. ALL POWER AND LIGHTING RACEWAY SYSTEMS SHALL HAVE A MAXIMUM OF (4) 90-DEGREE BENDS BETWEEN PULL BOXES.
17. THE CONTRACTOR SHALL PROVIDE RACEWAYS, WIRING, AND CONNECTIONS FOR ALL CONTROL CIRCUITS AND INTERLOCK.
18. PROVIDE A PULL STRING IN ALL EMPTY CONDUIT RUNS.
19. FLEXIBLE CONDUIT CONNECTIONS TO EQUIPMENT SHALL BE LIMITED TO 6'-0" IN LENGTH AND BE SUPPORTED PER NEC.
20. PROVIDE WATERTIGHT CONDUIT HUB FITTINGS FOR ALL CONDUITS ENTERING/EXITING ENCLOSURE TO MAINTAIN NEMA RATING AS SPECIFIED FOR ENCLOSURE.
21. PROVIDE WATERTIGHT SEALING FOR WALL PENETRATION.
22. CONSTRUCTION DOCUMENTS REPRESENT THE CONSULTANT'S DESIGN INTENT. IT IS NOT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO IDENTIFY EACH AND EVERY DETAIL OF THE ELECTRICAL CONSTRUCTION. PROVIDE ALL NECESSARY EQUIPMENT AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM.
23. CONTRACTOR SHALL PERMANENTLY IDENTIFY ALL WIRING WITH THE SOURCE AND CIRCUIT NUMBER AT ALL ELECTRICAL EQUIPMENT, PULL AND JUNCTION BOXES AND ELECTRICAL TERMINATIONS PROVIDED OR ASSOCIATED WITH THIS CONSTRUCTION.
24. ELECTRICAL SERVICE FOR MECHANICAL AND OTHER EQUIPMENT IS BASED ON EQUIPMENT DESIGN DATA. THE VALUES MAY DIFFER DEPENDING UPON THE ACTUAL EQUIPMENT TO BE FURNISHED. COORDINATE RATINGS WITH OTHER TRADES AND/OR MANUFACTURER'S DATA PRIOR TO ORDERING ELECTRICAL EQUIPMENT. ANY MODIFICATION TO THE ELECTRICAL INSTALLATION BASED UPON ACTUAL EQUIPMENT SELECTION, SHALL RESULT IN NO ADDITIONAL COST TO THE CONTRACT.
25. ELECTRICAL SERVICE FOR MECHANICAL AND OTHER EQUIPMENT IS BASED ON EQUIPMENT DESIGN DATA. THE VALUES MAY DIFFER DEPENDING UPON THE ACTUAL EQUIPMENT TO BE FURNISHED. COORDINATE RATINGS WITH OTHER TRADES AND/OR MANUFACTURER'S DATA PRIOR TO ORDERING ELECTRICAL EQUIPMENT. ANY MODIFICATION TO THE ELECTRICAL INSTALLATION BASED UPON ACTUAL EQUIPMENT SELECTION, SHALL RESULT IN NO ADDITIONAL COST TO THE CONTRACT.
26. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT CONNECTION TYPES AND REQUIREMENTS PRIOR TO ROUGH-IN AND INSTALLATION OF DEVICES. THE ELECTRICAL CONTRACTOR SHALL MAKE ADJUSTMENTS IN FIELD TO MATCH ACTUAL EQUIPMENT BEING INSTALLED. CONTRACTOR IS RESPONSIBLE FOR MAKING ALL FINAL CONNECTIONS TO EQUIPMENT PROVIDED BY OTHERS.
27. EQUIPMENT INSTALLED WITHIN CONCEALED SPACES SHALL HAVE REASONABLE AND CODE COMPLIANT ACCESS PANELS PROVIDED NEARBY FOR INSPECTION, TESTING AND SERVICE CONSIDERATIONS.
28. VERIFY CEILING TYPES AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING LIGHT FIXTURES.
29. PAINT ALL EXPOSED CONDUIT TO MATCH ADJACENT SURFACE IN FINISHED SPACES.
30. COORDINATE THE LOCATION OF ALL DEVICES AND BOXES WITH WINDOWS, MILLWORK, BUILT-INS, AND CABINETS PRIOR TO ANY INSTALLATION OF CONDUITS.
31. THE ENGINEER HAS MADE EVERY EFFORT TO PROPERLY ADDRESS ALL RELATED TRADES AND IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL CONTRACTOR (AS PART OF THEIR BASE BID) TO THOROUGHLY REVIEW ALL DESIGN DOCUMENTS BEFORE WORK IS TO BEGIN. IN CASE OF A CONFLICT, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY TO COORDINATE ANY DISCREPANCY.
32. ITEMS OF SPECIFIC MANUFACTURERS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND/OR MANUFACTURER'S REPRESENTATIVE'S DIRECTIONS. ELECTRICAL CHARACTERISTICS SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER.

A2 ELECTRICAL GENERAL NOTES

SCALE: NOT TO SCALE

A	AMPERE
AIC	AIR CONDITIONING
AC	ALTERNATE CURRENT
ACCU	AIR COOLED CONDENSING UNIT
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AH	AIR HANDLER
AIC	AMPERE INTERRUPTING CAPACITY
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AU	AT UNIT
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BFG	BELOW FINISHED GRADE
BRK	BREAKER
BOH	BACK OF HOUSE
C	CONDUIT
CA	CABLE
CAB	CABINET
CAT5E	CATEGORY-5E
CC	CABLED CONDUCTORS
CH	CHILLER
CKT	CIRCUIT
CLL	CONTRACT LIMIT LINE
CMH	COMMUNICATION MANHOLE
CO	CONDUIT ONLY
CPB	COMMUNICATION PULLBOX
CT	CURRENT TRANSFORMER
CUC	COMMON USER CABLE
CUTC	COMMON USER TERMINAL CABINET
COMM	COMMUNICATION
D	DEEP
DC	DIRECT CURRENT
DISC	DISCONNECT
DN	DOWN
DP	DISTRIBUTION PANEL
DPST	DOUBLE POLE SINGLE THROW
DPDT	DOUBLE POLE DOUBLE THROW
EER	ELECTRICAL EQUIPMENT ROOM
ELECT	ELECTRICAL
ELEV	ELEVATION
EMT	ELECTRICAL METALLIC TUBING
EP	EXPLOSION PROOF
EQUIP	EQUIPMENT
EXIST	EXISTING
F	FUSE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAT	FIRE ALARM TERMINATION
FBO	FURNISHED BY OWNER
FD/SD	FIRE DAMPER / SMOKE DETECTOR
FDR	FEEDER
FLA	FULL LOAD AMPERES
GFI	GROUND FAULT INTERRUPT
GND	GROUND
H	HIGH
HP	HORSEPOWER
HZ	HERTZ
I/C	INTERCOM
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
JB	JUNCTION BOX
KA	KILOAMP
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
KWH	KILOWATT HOUR
KWHD	KILOWATT HOUR DEMAND METER
L	LENGTH, LONG
LGT	LIGHTING
MA	MILLIAMPERES
MBB	MONITOR BREAKOUT BOX
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	1000 CIRCULAR MILLS
MECH	MECHANICAL
MIC	MICROPHONE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MM	MULTI MODE
MTD	MOUNTED
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASS.
NF	NON-FUSED
NFPA	NATIONAL FIRE PROTECTION ASS.
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OLS	OVERLOADS
OC	ON CENTER
P	POLE
PB	PULLBOX
PNL	PANEL
PR	PAIR
PVC	POLYVINYL CHLORIDE
PWR	POWER
POC	POINT OF CONNECTION
POS	POINT OF SALES
PT	POTENTIAL TRANSFORMER
REF	REFERENCE
REM	REMARKS
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMS	ROOT-MEAN-SQUARE
RCPT	RECEPTACLE
SBB	SOUND BREAKOUT BOX
SDB	SOUND DISTRIBUTION BOX
SLC	SIGNALING LINE CIRCUIT
SM	SINGLE MODE
SPECS	SPECIFICATIONS
SPKR	SPEAKER
SPST	SINGLE POLE SINGLE THROW
SPDT	SINGLE POLE DOUBLE THROW
SR	SOUND RACK
SST	STAINLESS STEEL
ST	SHUNT TRIP
SW	SWITCH
SWBD	SWITCHBOARD
TEL	TELEPHONE
TP	TWISTED PAIR CABLE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
VFD	VARIABLE FREQUENCY DRIVE
W	WATT, WIRE, WIDE
WP	WEATHERPROOF
XFMR	TRANSFORMER

A3 ABBREVIATIONS

SCALE: NOT TO SCALE

## XX	DUPLEX RECEPTACLE, MOUNT AT 18" AFF U.O.N. IG = ISOLATED GROUND GFI = GROUND FAULT CIRCUIT INTERRUPTER WP = GFI WITH WEATHERPROOF COVER ## = BRANCH CIRCUIT NUMBER
	QUAD RECEPTACLE, MOUNT 18" AFF UNLESS OTHERWISE NOTED
$XX	SINGLE POLE SWITCH, U.O.N. OS = OCCUPANCY SENSOR OSD = OCCUPANCY SENSOR WITH DIMMER 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH D = DIMMER SWITCH M = MOTOR RATED SWITCH
	FUSED DISCONNECT SWITCH
	NON FUSED DISCONNECT SWITCH
##	JUNCTION BOX, ## = BRANCH CIRCUIT NUMBER
##	WALL MOUNTED JUNCTION BOX, ## = BRANCH CIRCUIT NUMBER
	PANEL BOARD, REFER TO PANEL BOARD SCHEDULE
XXX	BRANCH CIRCUIT HOME RUN WITH CIRCUIT NUMBER SEE PANEL SCHEDULES FOR DETAILS
OS	CEILING MOUNTED OCCUPANCY SENSOR
	RECESSED CAN LIGHT; REFER TO PLAN FOR SPECIFICATIONS

A4 LEGEND

SCALE: NOT TO SCALE

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TO THE BEST OF THE ARCHITECTS AND ENGINEER'S KNOWLEDGE, THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE-SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH FBC SECTION 110.3 AND CHAPTER 633 OF THE FLORIDA STATUTES.

MATTHEW LARUE, PE
91654

CLEARWATER HOUSING AUTHORITY

BARBEE TOWERS MAIL STRUCTURE & FIRST FLOOR MODIFICATIONS
1100 DRUID ROAD
CLEARWATER, FL 33756

MARK	DATE	DESCRIPTION

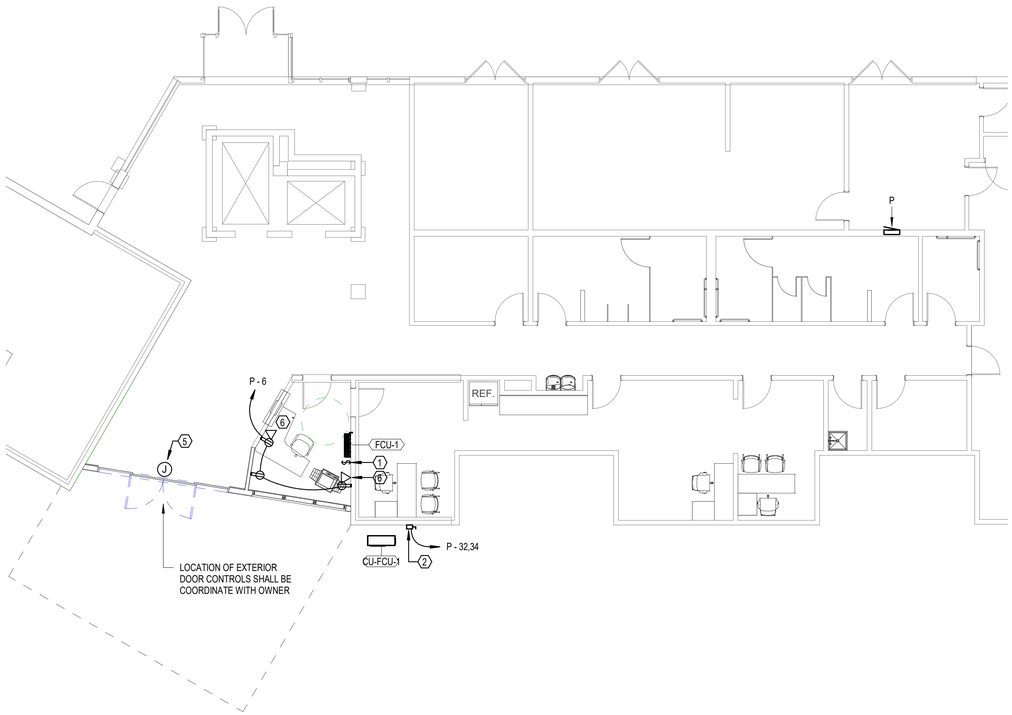
REVISIONS

PROJECT NO:	Y97.002.001
DATE:	12/19/2023
DRAWN BY:	M. LARUE, PE
DESIGNED BY:	M. LARUE, PE
CHECKED BY:	W. O'CONNOR, PE

CONTRACTOR SHALL VERIFY ALL CONDITIONS ON JOB SITE & NOTIFY THE OWNER OF ANY VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION

LEGEND, ABBREVIATIONS AND GENERAL NOTES

E-001



B1 ELECTRICAL FLOOR PLAN

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

0 4' 8' 16'

PANEL NAME: P

LOCATION: 2ND FLOOR ELEC RM
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE SYSTEM: 208Y/120
PHASE: 3
WIRES: 4
A.I.C. RATING: 22K

PANEL RATING: 100 A
MAINS TYPE: MLO

EXISTING PANEL CONNECTED LOAD: 17.7 KVA (49 A) , NEW PANEL CONNECTED LOAD: 20.8 KVA (58 A)

NOTES	CIRCUIT DESCRIPTION	CB. AMPS	POLES	CKT	A		B		C		CKT	POLES	CB. AMPS	CIRCUIT DESCRIPTION	NOTES
1	LIGHTS & EQUIPMENT	20 A	1	1	350	400					2	1	20 A	LIGHTS & EQUIPMENT	1
1	LIGHTS & EQUIPMENT	20 A	1	3			450	360			4	1	20 A	LIGHTS & EQUIPMENT	1
1	LIGHTS & EQUIPMENT	20 A	1	5					500	540	**6**	**1**	**20 A**	**LOBBY RECEPTION RECEPTACLES**	**2**
1	LIGHTS & EQUIPMENT	20 A	1	7	420	500					8	1	20 A	LIGHTS & EQUIPMENT	1
1	LIGHTS & EQUIPMENT	20 A	1	9			500	450			10	1	20 A	LIGHTS & EQUIPMENT	1
1	LIGHTS & EQUIPMENT	20 A	1	11					400	400	12	1	20 A	LIGHTS & EQUIPMENT	1
1	LIGHTS & EQUIPMENT	20 A	1	13	200	430					14	1	20 A	LIGHTS & EQUIPMENT	1
1	LIGHTS & EQUIPMENT	20 A	1	15			350	360			16	1	20 A	LIGHTS & EQUIPMENT	1
1	LIGHTS & EQUIPMENT	20 A	1	17					500	500	18	1	20 A	LIGHTS & EQUIPMENT	1
1	LIGHTS & EQUIPMENT	20 A	1	19	410	360					20	1	20 A	LIGHTS & EQUIPMENT	1
1	LIGHTS & EQUIPMENT	20 A	1	21			500	360			22	1	20 A	LIGHTS & EQUIPMENT	1
1	LIGHTS & EQUIPMENT	20 A	1	23					500	720	24	1	20 A	KITCHEN RECEPTACLES	1
1	LIGHTS & EQUIPMENT	20 A	1	25	340	1000					26	1	20 A	COPIER	1
1	LIGHTS & EQUIPMENT	20 A	1	27			200	500			28	1	20 A	LIGHTS & EQUIPMENT	1
1	LIGHTS & EQUIPMENT	20 A	1	29					650	500	30	1	20 A	LIGHTS & EQUIPMENT	1
1	LIGHTS & EQUIPMENT	20 A	1	31	610	1248					**32**				
1	LIGHTS & EQUIPMENT	20 A	1	33			450	1248			**34**	**2**	**20 A**	**CU-1 (LOBBY RECEPTION)**	**3**
1	LIGHTS & EQUIPMENT	20 A	1	35					410	500	36	1	20 A	LIGHTS & EQUIPMENT	1
1	LIGHTS & EQUIPMENT	20 A	1	37	500	400					38	1	20 A	LIGHTS & EQUIPMENT	1
1	LIGHTS & EQUIPMENT	20 A	1	39			400	400			40	1	20 A	LIGHTS & EQUIPMENT	1
1	LIGHTS & EQUIPMENT	20 A	1	41					450	500	42	1	20 A	LIGHTS & EQUIPMENT	1
		Total Load:			7168 VA		6528 VA		7070 VA						
		Total Amps:			60 A		54 A		60 A						

GENERAL NOTES:

1. PANEL SCHEDULE IS PROVIDED PER AS-BUILT DRAWINGS AND SITE SURVEYS, AND ARE PROVIDED FOR REFERENCE PURPOSE ONLY. THE ELECTRICAL CONTRACTOR SHALL TRACE AND VERIFY ALL CIRCUITS IN THE PANELS FOR ACCURACY. RESCHEDULE PANEL AND PROVIDE 100% ACCURATE PANEL SCHEDULE. ALL WIRED AND ACTIVE BREAKERS SHALL BE PROPERLY SCHEDULED. WIRED BREAKER WITH NO ACTIVE LOAD/DEVICE SHALL BE LABELED AS SPARE.
2. ALL PANEL SCHEDULES SHALL BE 100% ACCURATE, ON CARD STOCK, TYPED, DATED, AND INSTALLED IN A CLEAR POCKET. THE ELECTRICAL CONTRACTOR SHALL GO THROUGH ALL EXISTING ELECTRICAL PANELS TO TRACE AND VERIFY ALL CIRCUITS FOR ACCURACY. RECEPTACLES AND LIGHTING CIRCUIT SHALL BE LABELED BY AREA/LOCATION. SPARE IS A BREAKER WITH NO WIRE, BLANK IS AN EMPTY SLOT. ALL WIRED AND ACTIVE BREAKERS SHALL BE PROPERLY SCHEDULED. WIRED BREAKER WITH NO ACTIVE LOAD/DEVICE SHALL BE LABELED AS SPARE, ENDING LOCATION.
3. CONTRACTOR SHALL TRACE EXISTING AREA LIGHTING CIRCUIT BACK TO PANEL OF ORIGIN. IF PANEL OF ORIGIN DIFFERS FROM WHAT IS SHOWN ON THE ENGINEERING DOCUMENTS THE CONTRACTOR SHALL INFORM THE ELECTRICAL ENGINEER PRIOR TO PROCEEDING.

KEY NOTES:

1. EXISTING TO REMAIN.
2. REUSE EXISTING SPARE BREAKER FOR NEW WORK.
3. PROVIDE NEW CIRCUIT BREAKER AS INDICATED. NEW BREAKER SHALL BE RATED FOR USE IN EXISTING PANEL BOARD. MAINTAIN PANEL SHORT CIRCUIT RATING.

B3 PANEL 'P' SCHEDULE

SCALE: NOT TO SCALE

A1 GENERAL NOTES

SCALE: NOT TO SCALE

1. REFER TO SHEET E-001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. ALL EXISTING WIRING AND CONDUIT FOR LIGHTING IN LOBBY SHALL REMAIN FOR REUSE.
3. ALL NEW LIGHTING FIXTURES WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED. REUSE EXISITNG LIGHTING CONTROLS AND BRANCH CIRCUITS FOR EXISTING LOBBY LIGHTING.
4. CONTRACTOR SHALL INCLUDE IN BID THE TRACING AND VERIFICATON OF EXISTING BRANCH CIRCUITS TO THESE SPACES AHEAD OF DEMOLITION/NEW WORK EFFORTS.
5. PROVIDE INDICATED EMERGENCY LIGHTING WITH UL924 LISTED DEVICE TO ALLOW FOR CONTROL BY NORMAL CONTROLS AND TO PROVIDE OVERRIDE OF CONTROLS UNDER AN EMERGENCY CONDITION. DESIGN SPEC SHALL BE WATTSTOPPER ELCU-200 OR APPROVED EQUAL.

A2 KEY NOTES

SCALE: NOT TO SCALE

1. PROVIDE MOTOR RATED TOGGLE SWITCH FOR LOCAL DISCONNECTING MEANS OF FCU-1. FCU-1 SHALL BE FED BY ASSOCIATED CU-1 USING MANUFACTURER DIRECTED WIRE SIZE AND QUANTITY.
2. PROVIDE NEMA 3R, 240V 30A RATED NON-FUSED SAFETY SWITCH TO SERVE AS LOCAL DISCONNECTING MEANS FOR CU-1. PROVIDE (2) #10, (1) #10G IN 3/4" CONDUIT BACK TO PANEL.
3. HALF-SHADED SYMBOL DENOTES FIXTURE ON EMERGENCY CIRCUIT. REFER TO SHEET E-102 FOR LOCATION OF EXISTING PANEL X2 ON LEVEL 2. TRACE AND VERIFY AS REQUIRED.
4. PROVIDE WALL MOUNTED OCCUPANCY SENSOR WITH 0-10V DIMMING FOR CONTROL OF LIGHTING IN NEW OFFICE SPACE.
5. EXISTING POWER FOR STOREFRONT DOOR SHALL BE RELOCATED TO NEW DOOR LOCATION. REUSE EXISTING WIRING FOR POWER AND CONTROLS. MATCH EXISTING WHERE REQUIRED TO EXTEND.
6. PROVIDE (2) CAT6 CABLES TO DATA OUTLET FROM NEARBY NETWORK SWITCH. VERIFY IN FIELD LOCATION OF NETWORK SWITCH WITH OWNER.

A3 ELECTRICAL - CEILING PLAN

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

0 4' 8' 16'

A4 NOT USED

SCALE: NOT TO SCALE

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TO THE BEST OF THE ARCHITECTS AND ENGINEER'S KNOWLEDGE, THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE-SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH FBC SECTION 110.3 AND CHAPTER 633 OF THE FLORIDA STATUTES.

MATTHEW LARUE, PE
91654

CLEARWATER HOUSING AUTHORITY

BARBEE TOWERS MAIL STRUCTURE & FIRST FLOOR MODIFICATIONS
CLEARWATER HOUSING AUTHORITY
1100 DRUID ROAD
CLEARWATER, FL 33756

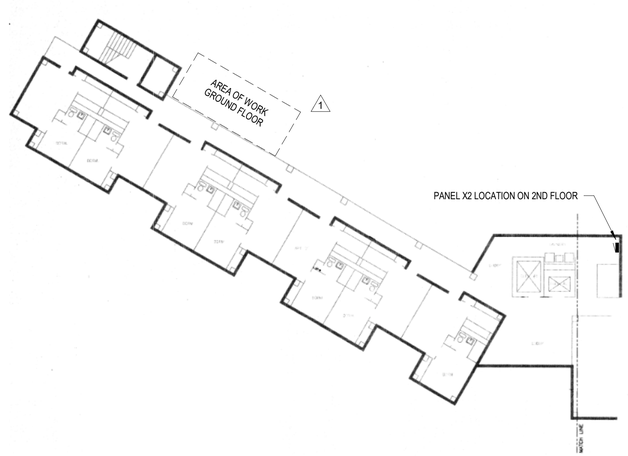
MARK	DATE	DESCRIPTION
		REVISIONS

PROJECT NO:	Y97.002.001
DATE:	12/19/2023
DRAWN BY:	M. LARUE, PE
DESIGNED BY:	M. LARUE, PE
CHECKED BY:	W. O'CONNOR, PE

CONTRACTOR SHALL VERIFY ALL CONDITIONS ON JOB SITE & NOTIFY THE OWNER OF ANY VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION

LOBBY - ELECTRICAL NEW WORK PLAN

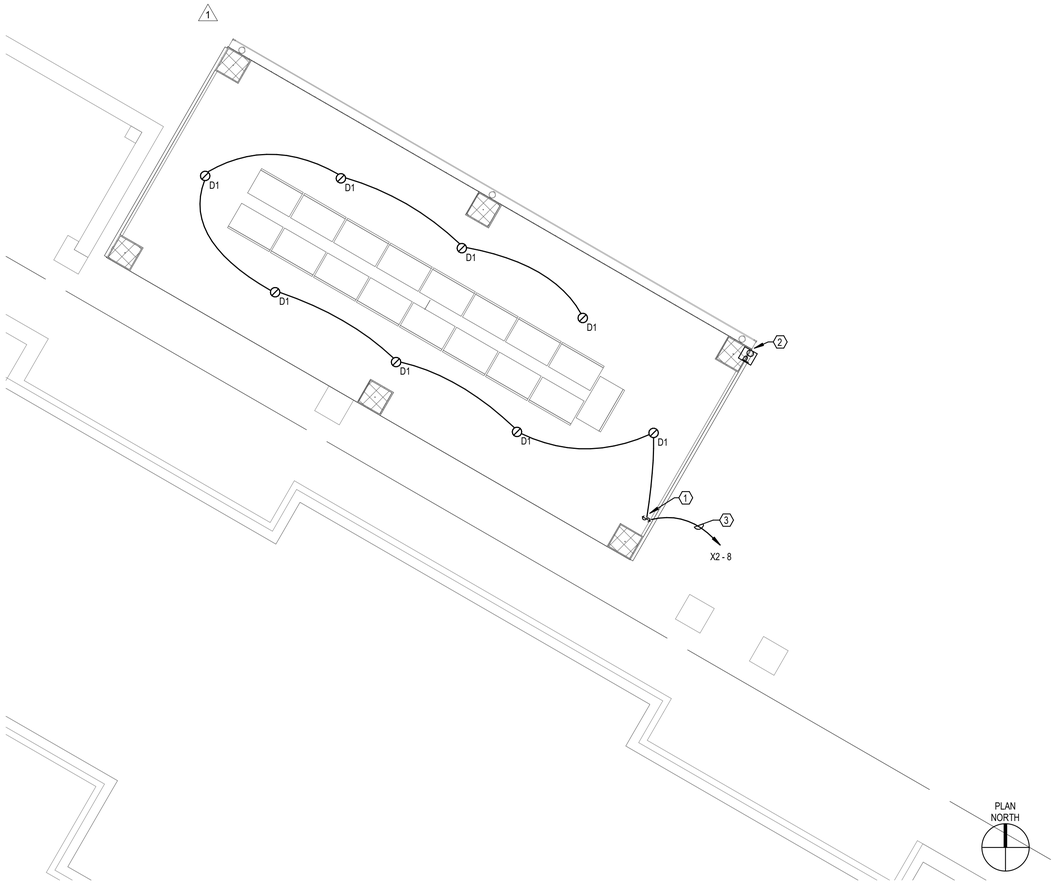
E-101



PLAN NORTH

C1 2ND FLR. WEST - KEY PLAN

SCALE: NOT TO SCALE



PLAN NORTH

A1 FIRST FLOOR

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

0 2" 4' 8'

PANEL NAME: X2

LOCATION: 2ND FLOOR ELEC RM
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE SYSTEM: 208Y/120
PHASE: 3
WIRES: 4
A.I.C. RATING: 10,000

PANEL RATING: 100 A
MAINS TYPE: MLO

EXISTING PANEL CONNECTED LOAD: 12.4 KVA (34 A) , NEW PANEL CONNECTED LOAD: 12.6 KVA (35 A)

NOTES	CIRCUIT DESCRIPTION	CB. AMPS	POLES	CKT	A (VA)		B (VA)		C (VA)		CKT	POLES	CB. AMPS	CIRCUIT DESCRIPTION	NOTES
1	LIGHTS AND EQUIPMENT	20 A	1	1	1900	1900					2	1	20 A	LIGHTS AND EQUIPMENT	1
1	LIGHTS AND EQUIPMENT	20 A	1	3			1900	1900			4	1	20 A	OVERHEAD LIGHITNG E/W OF ELEVATOR	1
1	LIGHTS AND EQUIPMENT	20 A	1	5					1900	450	6	1	20 A	4TH FLOOR COORIDOR LIGHTS	1
1	EAST EXIT OVERHEAD LIGHTING	20 A	1	7	1900	200					8	1	**20 A**	**OUTDOOR LIGHTING**	**2**
1	FIRE ALARM	20 A	1	9			500	1900			10	1	20 A	WEST EXIT OVERHEAD LIGHTING	1
1	SPACE	--	1	11					--	--	12	1	--	SPACE	1
				Total Load:	5890 VA		6200 VA		2350 VA						
				Total Amps:	54 A		56 A		20 A						

GENERAL NOTES:

1. PANEL SCHEDULE IS PROVIDED PER AS-BUILT DRAWINGS AND SITE SURVEYS, AND ARE PROVIDED FOR REFERENCE PURPOSE ONLY. THE ELECTRICAL CONTRACTOR SHALL TRACE AND VERIFY ALL CIRCUITS IN THE PANELS FOR ACCURACY. RESCHEDULE PANEL AND PROVIDE 100% ACCURATE PANEL SCHEDULE. ALL WIRED AND ACTIVE BREAKERS SHALL BE PROPERLY SCHEDULED. WIRED BREAKER WITH NO ACTIVE LOAD/DEVICE SHALL BE LABELED AS SPARE.
2. ALL PANEL SCHEDULES SHALL BE 100% ACCURATE, ON CARD STOCK, TYPED, DATED, AND INSTALLED IN A CLEAR POCKET. THE ELECTRICAL CONTRACTOR SHALL GO THROUGH ALL EXISTING ELECTRICAL PANELS TO TRACE AND VERIFY ALL CIRCUITS FOR ACCURACY. RECEPTACLES AND LIGHTING CIRCUIT SHALL BE LABELED BY AREA/LOCATION. SPARE IS A BREAKER WITH NO WIRE, BLANK IS AN EMPTY SLOT. ALL WIRED AND ACTIVE BREAKERS SHALL BE PROPERLY SCHEDULED. WIRED BREAKER WITH NO ACTIVE LOAD/DEVICE SHALL BE LABELED AS SPARE, ENDING LOCATION.
3. CONTRACTOR SHALL TRACE EXISTING AREA LIGHTING CIRCUIT BACK TO PANEL OF ORIGIN. IF PANEL OF ORIGIN DIFFERS FROM WHAT IS SHOWN ON THE ENGINEERING DOCUMENTS THE CONTRACTOR SHALL INFORM THE ELECTRICAL ENGINEER PRIOR TO PROCEEDING.

KEY NOTES:

1. EXISTING TO REMAIN.
2. REWORKED EXISITNG OUTDOOR AREA LIGHTING CIRCUIT.

C3 PANEL "X2" SCHEDULE

SCALE: NOT TO SCALE

LUMINAIRE SCHEDULE

FIXTURE ID	MANUFACTURER	MODEL	COUNT	VOLTAGE	WATTAGE	DESCRIPTION
D1	VANTAGE	A6VEFLED-1-15-30K-4-L601-WHT	29	120 V	25 W	6" APERTURE LED DOWNLIGHT FIXTURE, 3000K CCT
L1	AFX LIGHTING	ALDF2032LAJDIGY	4	120 V		DECORATIVE FIXTURE; 4.5 " H, 20" DIAMETER; GREY LINEN WITH EXTENSION ROD
X	PROGRESS	PEALE-D-R-EM-16	2	8	9 W	CEILING MOUNTED DIE-CAST LED EXIT SIGN WITH TEST SWITCH.

NOTE: ALL FIXTURE MODELS SHOWN ARE BASIS OF DESIGN ONLY, CONTRACTOR TO COORDINATE FIXTURE SPECIFICATIONS OR APPROVED EQUALS WITH OWNER.

B3 LUMINAIRE SCHEDULE

SCALE: NOT TO SCALE

1. REFER TO SHEET E-001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. UNDERGROUND CONDUITS SHALL BE BURIED A MINIMUM OF 18" BELOW GRADE IN ACCORDANCE WITH NEC TABLE 300.5. UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 AND TRANSITION TO RMC ONCE ABOVE GRADE.

A3 GENERAL NOTES

SCALE: NOT TO SCALE

① PROVIDE TOGGLE SWITCH TO SERVE AS BRANCH CIRCUIT DISCONNECTING MEANS FOR NEW STRUCTURE PER NEC 225.31. MOUNT TOGGLE SWITCH WITHIN WEATHERPROOF COVER AT CEILING LEVEL. LABEL SWITCH AS "BRANCH CIRCUIT DISCONNECT" FOR IDENTIFICATION. TOGGLE SWITCH SHALL BE AHEAD OF ALL OTHER CONTROLS/DEVICES AT THE STRUCTURE.

② PROVIDE PHOTOCELL FOR CONTROL OF STRUCTURE LIGHTING. MOUNT IN LOCATION SHOWN AND ORIENT NORTH. CONTRACTOR SHALL FIELD VERIFY LOCATION TO MINIMIZE BUILDING SHADOW EXPOSURE. DESIGN SPEC SHALL BE INTERMATIC EK4736S OR APPROVED EQUAL.

③ CONTRACTOR SHALL TIE-INTO EXISTING AREA LIGHTING CIRCUIT UTILIZING (2) #12, (1) #12G COPPER CONDUCTORS ROUTED IN A 3/4" CONDUIT. ALL NEW CONDUITS SHALL BE HIDDEN FROM GUESTS VIEW, TO THE EXTENT POSSIBLE.

A4 KEY NOTES

SCALE: NOT TO SCALE

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1100 DRUID ROAD
CLEARWATER, FL 33756

MARK	DATE	DESCRIPTION
1	01/19/2024	PERMIT COMMENTS

REVISIONS

PROJECT NO:	Y97.002.001
DATE:	12/19/2023
DRAWN BY:	M. LARUE, PE
DESIGNED BY:	M. LARUE, PE
CHECKED BY:	W. O'CONNOR, PE

CONTRACTOR SHALL VERIFY ALL CONDITIONS ON JOB SITE & NOTIFY THE OWNER OF ANY VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION

MAIL STRUCTURE - ELECTRICAL NEW WORK PLAN

E-102

I. GENERAL

A. GENERAL: THE WORK COVERED CONSISTS OF FURNISHING ALL LABOR AND MATERIALS NECESSARY TO INSTALL, COMPLETE AND READY FOR CONTINUOUS OPERATION, THE FIRE PROTECTION SYSTEMS, APPARATUS, AND EQUIPMENT FOR THE WET-PIPE SPRINKLER SYSTEM PROTECTING ALL AREAS IN ACCORDANCE WITH NFPA 13. DESIGN SHALL BE BY A NICET LEVEL III OR IV TECHNICIAN. INSTALLATION SHALL BE PERFORMED BY A CERTIFIED SPRINKLER CONTRACTOR OR A SPECIALIST WHO IS EXPERIENCED IN THE DESIGN AND INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS (MINIMUM 3 YEARS).

B. SHOP DRAWINGS: SUBMIT DETAILED SHOP DRAWINGS IN ACCORDANCE WITH NFPA 13 "WORKING PLANS". DRAWINGS ON UNIFORM SIZE SHEETS NO SMALLER THAN 24 INCHES BY 36 INCHES SHALL BE SUBMITTED TO OWNER AND C&S ENGINEERS FOR REVIEW AND APPROVAL. INFORMATION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

1. LAYOUT INDICATING DETAILS, PLAN VIEW, ELEVATION, AND SECTIONS OF THE SYSTEM PIPING. INDICATE THE LOCATION OF SPRINKLERS AND PIPING IN RELATION TO THE CEILING LAYOUT SHOWING PIPE LENGTHS AND SIZES.
2. DETAILED RISER DIAGRAM SHOWING SCHEMATIC OF SYSTEMS SUPPLY, SUPPLY CONNECTION, DEVICES, VALVES, PIPE, AND FITTINGS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING ALL EXISTING PIPING ROUTING AND SIZE WITHIN SCOPE OF WORK BACK TO SYSTEM RISER FOR HYDRAULIC CALCULATIONS.
4. THE SIGNATURE AND CERTIFICATION LETTER OF A NICET LEVEL III OR IV TECHNICIAN.
5. MANUFACTURER'S DATA SHALL BE PROVIDED AND ANNOTATED TO SHOW THE SPECIFIC MODEL, TYPE AND SIZE OF EACH ITEM.
6. FLOW TEST DATA FROM WITHIN THE PREVIOUS YEAR.

C. CODES: ALL EQUIPMENT, MATERIALS, LABOR, AND TESTING SHALL BE IN ACCORDANCE WITH THE CODES AND STANDARDS INDICATED HEREIN.

D. SHOP/RECORD DRAWINGS: THE CONTRACTOR SHALL MAINTAIN AT THE JOB, AT ALL TIMES, A COMPLETE AND SEPARATE SET OF BLACKLINE PRINTS OF THE FIRE PROTECTION DRAWINGS OF THEIR TRADE ON WHICH THEY SHALL MARK CLEARLY, NEATLY, ACCURATELY, AND PROMPTLY AS THE WORK PROGRESSES. THE CONTRACTORSHALL UPDATE SHOP DRAWINGS IN AUTOCAD/REVIT AND PROVIDE TWO SETS OF "AS-BUILT" DRAWINGS TO C&S ENGINEERS AT THE JOB COMPLETION TO VERIFY THAT THE COMPLETED INSTALLATION COMPLIES WITH ALL APPLICABLE CODES AND UNDERWRITERS' REQUIREMENTS. C&S ENGINEERS WILL FORWARD FINAL REVIEWED AS-BUILT DRAWINGS TO THE OWNER'S REPRESENTATIVE FOR THEIR RECORD.

E. INSPECTION: ALL WORK SHALL BE SUBJECT TO THE INSPECTION OF THE OWNER AND SUCH OTHER INSPECTORS HAVING JURISDICTION. A PROPERLY EXECUTED CERTIFICATE OF INSPECTION SHALL BE PROVIDED.

F. PROTECTION OF PROPERTY: PROTECT ALL NEW AND EXISTING WORK BEFORE, DURING , AND AFTER INSTALLATION.

G. CERTIFICATES OF APPROVAL: UPON COMPLETION OF ALL WORK, THE CONTRACTOR SHALL FURNISH, IN DUPLICATE, CERTIFICATES OF INSPECTIONS FROM ALL INSPECTORS AND AUTHORITIES HAVING JURISDICTION, NOTARIZED LETTERS FROM THE MANUFACTURERS STATING THAT AUTHORIZED FACTORY ENGINEERS HAVE INSPECTED AND TESTED THE INSTALLATION OF THEIR RESPECTIVE SYSTEMS AND FOUND SAME TO BE IN PERFECT OPERATING CONDITION.

H. FIRE PROTECTION DRAWINGS: THE FIRE PROTECTION DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE GENERAL ARRANGEMENTS OF WORK. IT I NOT THE INTENT OF THESE DRAWINGS TO SHOW EVERY PIPE, RISE, DROP, ELBOW, ETC. ANY ADDITIONAL WORK NOT SHOWN AND REQUIRED TO INSTALL THE FIRE PROTECTION SYSTEMS SHALL BE INCLUDED AS PART OF THIS CONTRACT.

I. REMOVAL WORK: PARTICULAR CARE SHALL BE TAKEN TO AVOID CREATING HAZARDS ON THE SITE OR CAUSING DISRUPTION OF SERVICE IN THE BUILDING. ALL EXISTING FIRE PROTECTION EQUIPMENT TO BE REMOVED SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. ALL EXISTING FIRE PROTECTION EQUIPMENT TO BE TURNED OVER TO THE OWNER AND SHALL BE PRESENTED TO THE OWNER IN GOOD CONDITION AT A LOCATION DESIGNATED BY THE OWNER. ALL OTHER FIRE PROTECTION EQUIPMENT SHALL BE REMOVED FROM THE PREMISES. REMOVE ALL ABANDONED PIPING AND EQUIPMENT NOT BUILT INTO BUILDING CONSTRUCTION. WHERE CEILING OR WALLS ARE REMOVED, ALL ABANDONED PIPING SHALL BE REMOVED AND ENDS OF LIVE SERVICES CAPPED. ABANDONED ELEMENTS BUILT INTO WALLS OR LOCATED ABOVE EXISTING INACCESSIBLE CEILINGS SHALL REMAIN AND ENDS CAPPED AND MARKED ABANDONED.

J. CONTINUITY OF SERVICES: FIRE PROTECTION SERVICES SHALL BE MAINTAINED IN ALL AREAS WHICH WILL BE OCCUPIED DURING THE CONSTRUCTION PERIOD. IF AN INTERRUPTION OF FIRE PROTECTION SERVICE BECOMES NECESSARY, SUCH SHALL BE MADE ONLY UPON CONSENT OF THE OWNER AT A TIME OUTSIDE NORMAL WORKING HOURS AS SHE SHALL DESIGNATE. REFER TO THE OVERALL SCHEDULING OF THE WORK OF THE PROJECT. SCHEDULE WORK TO CONFORM TO THIS SCHEDULE AND INSTALL WORK TO NOT DELAY NOR INTERFERE WITH THE PROGRESS OF THE PROJECT.

B1 FIRE PROTECTION SPECIFICATIONS
SCALE: NOT TO SCALE

II. MATERIALS/PRODUCTS

A. PIPE AND FITTINGS:
1. ALL PIPE AND FITTINGS SHALL BE BLACK STEEL. PIPING 1 – 2 INCH SHALL BE SCHEDULE 40 THREADED, 2-1/2 INCH AND GREATER SHALL BE SCHEDULE 10 GROOVED.

B. HANGERS AND SUPPORTS:
1. ALL PIPING SHALL BE PROPERLY SUPPORTED FROM BUILDING STRUCTURE IN ACCORDANCE WITH NFPA STANDARDS AND THE MANUFACTURER'S RECOMMENDATIONS.
2. HANGERS, SUPPORTS, SWAY BRACES, AND CLAMPS SHALL BE UL LISTED.

C. SPRINKLERS:
1. SPRINKLERS: SHALL BE IN CONFORMANCE WITH NFPA 13. RELEASE ELEMENTS SHALL BE SUITABLE FOR SPECIFIC APPLICATION. PROVIDE QUICK RESPONSE SPRINKLERS IN ALL LIGHT HAZARD AND ALL OTHER OCCUPANCIES IN WHICH THEIR USE IS LISTED OR APPROVED. SPRINKLERS LOCATED WITHIN THE AIR STREAMS OF UNIT HEATERS OR OTHER HEAT EMITTING EQUIPMENT OR SKYLIGHTS SHALL BE SELECTED FOR PROPER TEMPERATURE RATING.
2. GLASS BULB-TYPE, QUICK-RESPONSE STANDARD SPRAY, SEMI-RECESSED PENDENT, 155°F, 5.6 K-FACTOR. USE 200° WHERE REQUIRED BY NFPA 13 NEAR HEAT SOURCES. SPRINKLERS IN UNFINISHED AREAS SHALL BE UPRIGHT SPRINKLERS.
3. MANUFACTURER: TO MATCH EXISTING.

D. PIPE IDENTIFICATION:
1. ALL FIRE PROTECTION PIPING SHALL BE LABELED AT EACH BRANCH, AT EACH PASSAGE THROUGH WALL AND AT INTERVALS OF NOT MORE THAN 20 FEET WITH SEMI-RIGID SETMARK PIPE MARKERS WITH ARROWS INDICATING THE DIRECTION OF FLOW.

III. DESIGN CRITERIA

A. LIGHT HAZARD OCCUPANCY: 0.10/1500 GPM/FT², 100 GPM COMBINED HOSE STREAM DEMAND, MAXIMUM PROTECTION AREA PER SPRINKLER SHALL NOT EXCEED 196 SQUARE FEET.

B. THE SYSTEM SHALL BE HYDRAULICALLY CALCULATED. WATERFLOW TEST DATA USED AS THE BASIS FOR HYDRAULIC CALCULATIONS SHALL HAVE BEEN TAKEN WITHIN THE PREVIOUS TWELVE MONTH PERIOD. IF RECENT DATA IS UNAVAILABLE, ANOTHER FLOW TEST SHALL BE CONDUCTED. THE STATIC AND RESIDUAL PRESSURES DETERMINED BY FLOW TESTING SHALL BE REDUCED BY 10% TO ALLOW FOR SEASONAL VARIATIONS IN THE WATER SUPPLY.

C. VELOCITIES IN ALL PIPING SHALL NO EXCEED 20 FT/S.

IV. TESTING

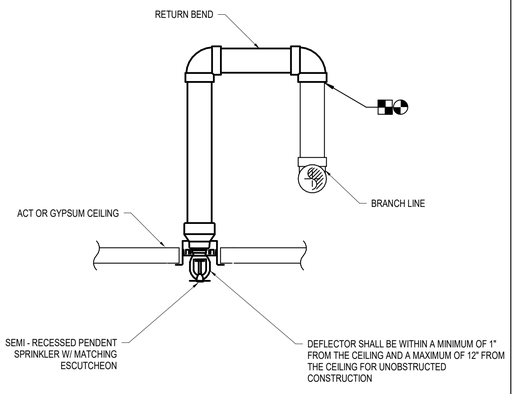
A. PRELIMINARY TESTING: PERFORM HYDROSTATIC OF WET-PIPE SPRINKLER SYSTEM, AS REQUIRED BY NFPA 13, IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE.

B. FINAL INSPECTION AND TESTING: ADVISE THE CONTRACTING OFFICER WHEN HYDROSTATIC AND ALARM TESTS HAVE BEEN COMPLETED AND ALL NECESSARY CORRECTIONS MADE, SO AS TO PERMIT FINAL INSPECTION AND TESTING. SUBMIT REQUEST FOR TESTING AT LEAST 7 CALENDAR DAYS PRIOR TO TEST DATE.

C. THE FINAL TEST SHALL BE WITNESSED BY THE OWNER'S REPRESENTATIVE. THE INSTALLING CONTRACTOR SHALL BE IN ATTENDANCE AT THE FINAL TEST.

D. PROVIDE ALL EQUIPMENT, SERVICES, AND LABOR TO PROPERLY PERFORM ALL REQUIRED TESTS. THE OWNER'S REPRESENTATIVE SHALL SUPERVISE ALL TESTING.

E. COPIES OF ALL TEST REPORTS SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE AND C&S ENGINEERS.



A2 SEMI RECESSED PENDENT SPRINKLER DETAIL
SCALE: NOT TO SCALE

F.A.C. 61G15-32.004 INFORMATION:

A. THE POINT OF SERVICE FOR THE FIRE PROTECTION WATER SUPPLY AS DEFINED BY SECTION 633.021(18), F.S.:

A.1 THE EXISTING RISER IS LOCATED ON THE GROUND FLOOR.

B. APPLICABLE NFPA STANDARD TO BE APPLIED, OR IN THE CASE WHERE NO SUCH STANDARD EXISTS, THE ENGINEERING STUDY, JUDGEMENTS, AND/OR PERFORMANCE-BASED ANALYSIS AND CONCLUSIONS:

B.1 APPLICABLE STANDARD IS NFPA 13, 2019 EDITION.

C. CLASSIFICATION OF HAZARD OCCUPANCY FOR EACH ROOM OR AREA:

C.1 HAZARD CLASSIFICATION INDICATED UNDER DESIGN CRITERIA.

D. DESIGN APPROACH, WHICH INCLUDES SYSTEM TYPE, DENSITIES, DEVICE TEMPERATURE RATING, AND SPACING FOR EACH SEPARATE HAZARD OCCUPANCY:

D.1 DESIGN DENSITIES, SPRINKLER SPECIFICATIONS, AND LAYOUTS ARE INDICATED ON DRAWINGS AND SPECIFICATIONS.

E. CHARACTERISTICS OF WATER SUPPLY TO BE USED, SUCH AS MAIN SIZE AND LOCATION, WHETHER IT IS DEAD-END OR CIRCULATING; AND IF DEAD-END, THE DISTANCE TO THE NEAREST CIRCULATING MAIN, AS WELL AS ITS MINIMUM DURATION AND RELIABILITY FOR THE MOST HYDRAULICALLY DEMANDING DESIGN AREA:

E.1 EXISTING WATER SUPPLY TO BE REUSED. SCOPE OF WORK IS NOT ANTICIPATED TO IMPACT HYDRAULIC PERFORMANCE OF SYSTEM. CONTRACTOR TO CONFIRM VIA HYDRAULIC CALCULATIONS.

F. WHEN PRIVATE OR PUBLIC WATER SUPPLIES ARE USED, THE FLOW TEST DATA, INCLUDING DATE AND TIME OF TEST, WHO CONDUCTED TEST OR SUPPLIED INFORMATION, TEST ELEVATION, STATIC GAUGE PRESSURE AT NO FLOW, FLOW RATE WITH RESIDUAL GAUGE PRESSURE, HYDRANT BUTT COEFFICIENT, AND LOCATION OF TEST IN RELATION TO THE HYDRAULIC POINT OF SERVICE:

F.1 FLOW TEST DATA IS UNAVILABLE. CONTRACTOR SHALL INCLUDE IN SCOPE.

G. VALVING AND ALARM REQUIREMENTS TO MINIMIZE POTENTIAL FOR IMPAIRMENTS AND UNRECOGNIZED FLOW OF WATER:

G.1 ALL SPRINKLER VALVES AND FLOW SWITCHES SHALL BE ELECTRONICALLY SUPERVISED.

H. MICROBIAL INDUCED CORROSION (MIC). THE ENGINEER OF RECORD SHALL MAKE REASONABLE EFFORTS TO IDENTIFY WATER SUPPLIES THAT COULD LEAD TO MIC. SUCH EFFORTS MAY CONSIST OF DISCUSSIONS WITH THE LOCAL WATER PURVEYOR AND/OR FIRE OFFICIAL, FAMILIARITY WITH CONDITIONS IN THE LOCAL AREA, OR LABORATORY TESTING OF WATER SUPPLIES. WHEN CONDITIONS ARE FOUND THAT MAY RESULT IN MIC CONTAMINATION OF THE FIRE PROTECTION PIPING, THE ENGINEER SHALL DESIGN CORRECTIVE MEASURES:

H.1 INSUFFICIENT EVIDENCE OF MICROBIAL INDUCED CORROSION (MIC) HAS BEEN FOUND IN THE FIRE PROTECTION WATER SUPPLY.

I. BACKFLOW PREVENTION AND METERING SPECIFICATIONS AND DETAILS TO MEET LOCAL WATER PURVEYOR REQUIREMENTS INCLUDING MAXIMUM ALLOWABLE PRESSURE DROP:

I.1 BACKFLOW PREVENTION SPECIFICATIONS MEET THE REQUIREMENTS OF THE LOCAL WATER PURVEYOR. METERING FLOW IS NOT REQUIRED.

J. QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL YARD AND INTERIOR FIRE PROTECTION COMPONENTS:

J.1 REFER TO SPECIFICATIONS AND INFORMATION CONTAINED ON DRAWINGS.

K. A DETERMINATION OF WHETHER A FIRE PUMP IS REQUIRED AND IF SO, THE SPECIFIC VOLUMETRIC FLOW AND PRESSURE RATING OF THE PUMP:

K.1 A FIRE PUMP IS NOT REQUIRED FOR THIS SCOPE OF WORK.

L. A VERIFICATION OF WHETHER A FIREWATER STORAGE TANK IS REQUIRED ON SITE AND IF SO, A DETERMINATION OF THE SIZE AND CAPACITY REQUIRED:

L.1 A FIREWATER STORAGE TANK IS NOT REQUIRED FOR THIS SCOPE OF WORK.

B3 F.A.C. 61G15-32.004 INFORMATION
SCALE: NOT TO SCALE

A. ALL FIRE PROTECTION SYSTEM IMPAIRMENTS SHALL OCCUR IN ACCORDANCE WITH THE FLORDIA FIRE PREVENTION CODE AND NFPA 241.

B. UNLESS APPROVED BY THE AUTHORITY HAVING JURISDICTION THE AUTOMATIC SPRINKLER SYSTEM SHALL REMAIN OPERATIONAL THROUGHOUT DEMOLITION AND SHALL BE THE LAST SYSTEM DEMOLISHED.

C. PRIOR TO REMOVING ANY FIRE PROTECTION SYSTEM FROM SERVICE THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY THE OWNER AND CODE ENFORCEMENT OFFICIAL IN WRITING A MINIMUM OF 48 HOURS BEFOREHAND THAT THE SYSTEM IS TO BE REMOVED FROM SERVICE. THE NOTIFICATION SHALL INCLUDE THE DATE AND TIME THE SYSTEM WILL BE REMOVED FROM SERVICE AND THE PROJECTED DATE AND TIME THE SYSTEM WILL BE RESTORED.

D. DURING ANY FIRE PROTECTION SYSTEM OUTAGES WITHIN THE OCCUPIED PORTION OF THE BUILDING THE ABOVE INDIVIDUALS SHALL BE NOTIFIED. IN THE EVENT THE FIRE PROTECTION SYSTEM CANNOT BE RESTORED TO SERVICE AT THE CLOSE OF WORK ON THAT DAY THE BUILDING SHALL BE PROVIDED WITH A FIRE WATCH AS REQUIRED BY THE STATE FIRE CODE. THE SOLE RESPONSIBILITY OF THE INDIVIDUAL ASSIGNED TO THE WATCH SHALL BE TO PERFORM CONSTANT PATROLS OF THE IMPAIRED AREA TO KEEP WATCH FOR FIRES. THE FIRE WATCH SHALL BE PROVIDED WITH AN APPROVED MEANS OF NOTIFICATION FOR THE FIRE DEPARTMENT. IF THE BUILDING IS PROTECTED BY MULTIPLE FIRE PROTECTION SYSTEMS, ONLY THE IMPAIRED AREA OF THE BUILDING SHALL BE REQUIRED TO BE PATROLLED BY THE FIRE WATCH. ONCE WORK STARTS ON THE FOLLOWING DAY, THE FIRE WATCH MAY BE PROVIDED BY THE INDIVIDUALS WORKING ON THE SYSTEM.

E. AT ANY TIME WHEN A FIRE PROTECTION SYSTEM IS OUT OF SERVICE THE FIRE DEPARTMENT CONNECTION FEEDING THAT SYSTEM SHALL BE AFFIXED WITH AN "OUT OF SERVICE" SIGN. THE SIGN SHALL BE PROVIDED, INSTALLED AND POLICED BY THE FIRE PROTECTION CONTRACTOR.

F. THE SYSTEM IMPAIRMENT FOR THE RENOVATION SHALL BE CONDUCTED AS A PRE-PLANNED IMPAIRMENT. TO MINIMIZE THE IMPAIRMENT TIME, ALL NECESSARY TOOLS AND MATERIALS SHALL BE ASSEMBLED ON-SITE PRIOR TO THE REMOVING OF THE SYSTEM FROM SERVICE.

G. WITHIN 24 HOURS OF RESTORING ANY FIRE PROTECTION SYSTEM TO SERVICE, THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE IN WRITING TO THE OWNER, FIRE DEPARTMENT, AND CODE ENFORCEMENT OFFICIAL CERTIFICATION THAT THE FOLLOWING HAS BEEN IMPLEMENTED:

1. ALL INSPECTIONS AND TESTS HAVE BEEN COMPLETED TO INSURE THE AFFECTED SYSTEM IS OPERATIONAL
2. THE IMPAIRMENT TAG HAS BEEN REMOVED.
3. THE OWNER AND OR OCCUPANT HAVE BEEN INSTRUCTED ON THE OPERATION OF THE SYSTEM.
4. THE THIRD PARTY MONITORING COMPANY HAS BEEN ADVISED THAT THE SYSTEM IS IN SERVICE

A3 FIRE PROTECTION IMPAIRMENT NOTES
SCALE: NOT TO SCALE

THE SCOPE OF WORK SHALL INCLUDE THE FOLLOWING:

1. THE LAYOUT, INSTALLATION, AND TESTING OF NEW FIRE PROTECTION, AUTOMATIC WET-PIPE SPRINKLER SYSTEMS THROUGHOUT THE RENOVATION AREA.
2. HYDRANT FLOW TEST.
3. SUBMITTALS, SHOP DRAWINGS, AND HYDRAULIC CALCULATIONS.
4. ACCEPTANCE TESTING.
5. PRIOR TO THE INSTALLATION OF ANY PIPING OR PSRINKLERS, PERFORM VISUAL INTERNAL OBSTRUCTION INVESTIGATION AND COMPLETE FLUSHING PROCDURE ON EXISTING SPRINKLER MAINS, BRANCH PIPING , AND STANDPIPE PIPING TO BE REUSED IN ACCORDANCE WITH NFPA 25. NOTIFY OWNER'S REPRESENTATIVE OF ANY OBSTRUCTIONS OR CORROSION THAT MAY EXIST. DOCUMENT ALL CONDITIONS IN DIGITAL REPORT INCLUDING PHOTOS FOR ALL LOCATIONS TESTED.

APPLICABLE CODES:

1. FLORIDA BUILDING CODE, 7TH EDITION
2. FLORIDA FIRE PREVENTION CODE, 7TH EDITION
3. NFPA 1 – 2018, FIRE CODE
4. NFPA 101 – 2018, LIFE SAFETY CODE
5. NFPA 13 – 2016, STANDARD FOR INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS
6. NFPA 241 – 2016, STANDARD OR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS

DESIGN CRITERIA:

1. THE DESIGN DOCUMENTS PROVIDED HEREIN IDENTIFY THE MINIMUM SYSTEM REQUIREMENTS, IN ACCORDANCE WITH THE ABOVE REFERENCED CODES AND REGULATIONS.
2. PROVIDE A COMPLETE AUTOMATIC WET-PIPE SPRINKLER SYSTEM FOR AREAS INDICATED. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH NFPA 13. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. REFER TO DRAWINGS FOR HAZARD CLASSIFICATIONS OF SPECIFIC AREAS.
3. PERFORM AND DOCUMENT WATER FLOW TEST IN ACCORDANCE WITH NFPA 291. SEE CIVIL DRAWINGS FOR LOCATION OF WATER MAIN AND INFORMATION ON PUBLIC WATER SUPPLY CHARACTERISTICS.
4. PIPING HAS NOT BEEN SHOWN. CONTRACTOR IS RESPONSIBLE FOR FINAL SPRINKLER SYSTEM PIPE LAYOUT AND SIZING HYDRAULIC CALCULATIONS, AND COORDINATION WITH OTHER TRADES.
5. PROVIDE MINIMUM 10 PSI HYDRAULIC SAFETY FACTOR.
6. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE ENGINEER OF RECORD (THROUGH THE APPROPRIATE PARTIES) COMPLETE SHOP DRAWINGS OF THE FIRE SPRINKLER SYSTEMS, MATERIAL DATA, AND CALCULATIONS AT THE SAME TIME. INCOMPLETE SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. SHOP DRAWINGS SHALL INCLUDE, AT MINIMUM, WORKING PLANS WITH HYDRAULIC CALCULATIONS, AND COORDINATION WITH OTHER TRADES.

GENERAL NOTES:

1. ALL SPRINKLER AND SYSTEM COMPONENTS SHALL COMPLY WITH THE LISTING AND/OR PERFORMANCE REQUIREMENTS OF NFPA 13.
2. INSTALLATION PERSONNEL SHALL BE SUPERVISED BY PERSONS WHO ARE QUALIFIED AND EXPERIENCED IN THE INSTALLATION, INSPECTION, AND TESTING OF FIRE SPRINKLER SYSTEMS.
3. COORDINATE SPRINKLERS WITH ALL OTHER TRADES TO AVOID CONFLICTS. (SUCH AS LIGHTS, CEILING FANS, HVAC DUCTS AND GRILLS, ETC.) IN CEILINGS WITH ACT, CENTER SPRINKLERS IN TILES.
4. ALL INTERIOR PIPING SHALL BE BLACK STEEL. EXTERIOR AND/OR PIPING EXPOSED TO A CORROSIVE ENVIRONMENT SHALL BE GALVANIZED.
5. PIPING SHALL BE INSTALLED CONCEALED ABOVE FINISHED CEILINGS UNLESS NOTED OTHERWISE.
6. ALL PENETRATIONS THROUGH FIRE/SMOKE RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE OF U.L. LISTED ASSEMBLY.
7. WHERE CONNECTING TO EXISTING SPRINKLER SYSTEM INFRASTRUCTURE, CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIAL AND EQUIPMENT REQUIRED TO FACILITATE CONNECTION.

B4 FIRE PROTECTION GENERAL NOTES
SCALE: NOT TO SCALE

PIPING/EQUIPMENT TO BE REMOVED

PENDENT SPRINKLER

CONNECT TO EXISTING

DISCONNECT FROM EXISTING

A4 FIRE PROTECTION SYMBOL LIST
SCALE: NOT TO SCALE

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TO THE BEST OF THE ARCHITECTS AND ENGINEER'S KNOWLEDGE, THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE-SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH FBC SECTION 110.3.7 AND CHAPTER 633 OF THE FLORIDA STATUTES.

BRYN R. CURRIE, PE
82715

CLEARWATER HOUSING AUTHORITY

BARBEE TOWERS MAIL STRUCTURE & FIRST FLOOR MODIFICATIONS
CLEARWATER HOUSING AUTHORITY
1100 DRUID ROAD
CLEARWATER, FL 33756

MARK	DATE	DESCRIPTION
1	01/22/2024	PERMIT COMMENTS

REVISIONS

PROJECT NO: Y97.002.001
DATE: 01/22/2024
DRAWN BY: M. OSTROFF
DESIGNED BY: M. OSTROFF
CHECKED BY: B. DONNER

CONTRACTOR SHALL VERIFY ALL CONDITIONS ON JOB SITE & NOTIFY THE OWNER OF ANY VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION

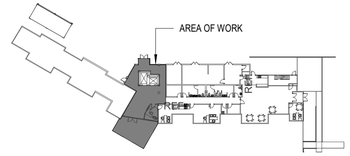
FIRE PROTECTION DETAILS, NOTES, & SYMBOLS

1 FP-001

HAZARD CLASSIFICATION TABLE	
ROOM	CLASS
MAIN LOBBY (100)	LIGHT HAZARD
LOBBY RECEPTION (101)	LIGHT HAZARD

C3 HAZARD CLASS TABLE

SCALE: NOT TO SCALE

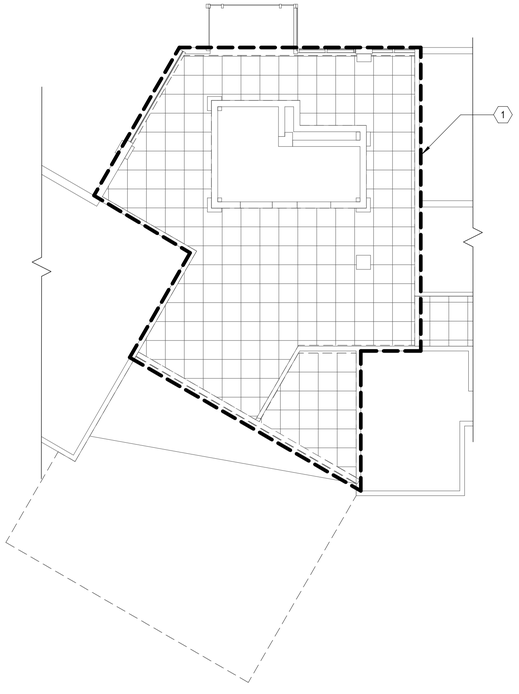


C4 KEY PLAN

SCALE: 1" = 60'-0"

DEMOLITION KEYED NOTES:

1. REMOVE ALL PENDENT SPRINKLERS, PIPING, AND ASSOCIATED MATERIAL BACK TO BRANCH OUTLET WITHIN THE AREA INDICATED ON THE PLAN.



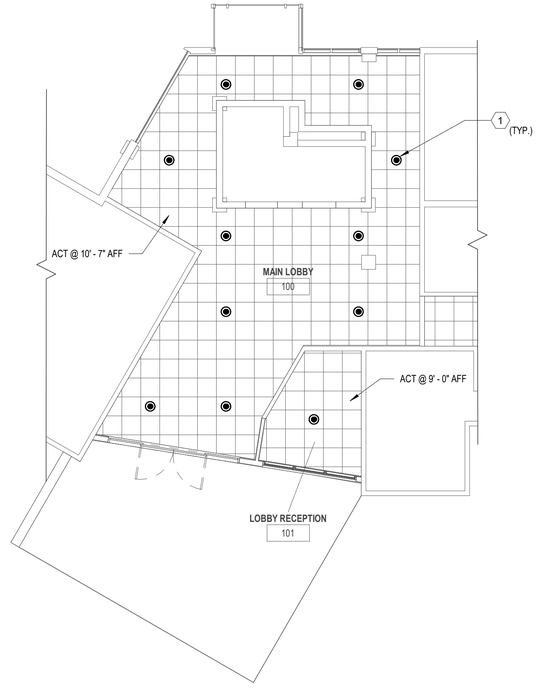
A1 LOBBY DEMOLITION PLAN

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

0 4' 8' 16'

CONSTRUCTION KEYED NOTES:

1. PROVIDE PENDENT SPRINKLER, PIPING, SUPPORTS, AND ASSOCIATED MATERIALS. CONNECT TO EXISTING BRANCH OUTLET.



A3 LOBBY CONSTRUCTION PLAN

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

0 4' 8' 16'

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FIRE PROTECTION PLAN

1 **FP-101**