

UPLANDS TOWNHOMES

DEVELOPED BY THE HOUSING AUTHORITY OF PUEBLO

PROJECT No.: I.F.B 17-524-RAD

ACERO AVE. and SPRAGUE AVE., PUEBLO, COLORADO 81004

BLDG. F CODE STUDY SUMMARY

APPLICABLE CODES:	2015 INTERNATIONAL BUILDING CODE UNIFORM FEDERAL ACCESSIBILITY STANDARDS		
PROJECT DESCRIPTION:	NEW CONSTRUCTION - APARTMENT BUILDING		
OCCUPANCY CLASSIFICATION:	R-3 RESIDENTIAL - APARTMENT HOMES		
TYPE OF CONSTRUCTION:	TYPE V-B WITH A FIN. FIRE SEPARATION DISTANCE OF 10'-0"		
FIRE RESISTANCE RATINGS (REQ. FOR BLDG. ELEMENTS):	PRIMARY STRUCTURAL FRAME: 0 BEARING WALLS INTERIOR: 0 NON-BEARING EXTERIOR WALLS: 0 FLOOR CONSTRUCTION: 0 ROOF CONSTRUCTION: 0		
TABULAR ALLOWABLE AREA (PER FLOOR):	R2 SIKM 41 30471'	1000	R2 ACTUAL AREA: 309 550 FT. 1548 (IN FL.)
TABULAR ALLOWABLE HEIGHT (PER STOREY):	R2 SIKM 60 FEET, 3 STOREY		R2 ACTUAL HEIGHT: 11 STOREY, 11 FEET
FLOOR AREA (SQA):	309 550 FT.		
FLOOR AREA (SQA):	309 550 FT.		
OCCUPANT LOAD:	2015 IBC TABLE 1004.1.2		
FUNCTION OF SPACE:	9.F.	LOAD FACTOR (PER OCC.)	GROSS/NET
STORAGE - IN FL.	195 550 FT.	GROSS	18
RESIDENTIAL - IN FL.	2460 550 FT.	GROSS	184
TOTAL	10 950	ROUNDED	19
OCCUPANCY SEPARATION:	WALLS SEPARATING DWELLING UNITS FROM EACH OTHER AND WALLS SEPARATING DWELLING UNITS FROM OTHER OCCUPANCIES SHALL BE FIRE PARTITIONS.		
INCIDENTAL USES SEPARATION:	N/A		
CORRIDORS:	N/A		
NUMBER OF EXITS:	2 - EXITS REQUIRE		
TRAVEL DISTANCE:	R2 WITH SPRINKLER SYSTEM: 200 FEET. ACTUAL: 174'. TRAVEL DISTANCE: 50 FEET.		
AUTOMATIC SPRINKLER SYSTEM:	REQUIRED - GROUP IN OCCUPANCIES SHALL BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13.		
FIRE ALARM SYSTEM:	R2, 2 STORY WITH 4 DWELLING UNITS: NOT REQUIRED		
ACCIDENTALITY:	R2 PER IBC TYPE ALUMIN. 7% OF TOTAL UNITS OR ONE REQUIRED TO BE TYPE A, ACCESSIBLE GROUND FLOOR OF ALL OTHER UNITS REQUIRED TO BE TYPE B, ACCESSIBLE PER IASB 5% OF TOTAL UNITS ON SITE REQUIRED TO BE ACCESSIBLE (5% TO TYPE A & IN IBC) TOTAL TYPE A ACCESSIBLE UNITS ON SITE: 6 UNITS (4 UNITS ON BLDG. F 4 @ IN FLOOR OF ALL UNITS ARE TYPE B ACCESSIBLE		
PLUMBING FIXTURES:	2015 IBC TABLE 200.1 and 2015 IBC TABLE 403.1 and SECT. 401.2		
PLUMBING FIXTURES PER OCCUPANCY TYPE:	REQUIRED	PROVIDED	
W.C./BATHS:	1 PER DWELLING UNIT	4	* OF FIXTURES PROVIDED
LAVATORIES:	1 PER DWELLING UNIT	4	8
BATHS/TOILETS:	1 PER DWELLING UNIT	4	8
OTHER FIXTURES:	1 CLOTHES DRESSER CONNECTION 1 CLOTHES HAMPER CONNECTION 4 CLOTHES CUPBOARD CONNECTIONS	4 CLOTHES DRESSERS 4 CLOTHES HAMPERS 4 CLOTHES CUPBOARDS	4

CODE STUDY LEGEND

- ● ● ● ● 1-HR RATED FIRE PARTITION - SEPARATION
- △ BUILDING EXIT
- △ EGRESS/ESCAPE WINDOW

GENERAL NOTES

- THIS PROJECT SHALL MEET THE 2015 ENTERPRISE GREEN COMMUNITIES CRITERIA
- COORDINATE ALL WORK WITH ALL DISCIPLINES INCLUDING, BUT NOT LIMITED TO STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL.
- PROVIDE AND INSTALL 2x6 WD. BLOCKING BETWEEN STUDS AND BEHIND GYP. BD. AS REQUIRED FOR ALL WALL MOUNTED TELEVISIONS, CABINET SHELVES, TOILET ACCESSORIES, GRAB BARS, VANITY COUNTERTOPS, WALL AND BASE CABINETS, AND DETAILS.
- PROVIDE 3/4" RADIUS BULLNOSE CORNER BEAD AT ALL EXPOSED GYP. BD. OUTSIDE WALL CORNERS ON INTERIOR OF BUILDING.
- BUILDINGS SHALL BE PROVIDED WITH AUTOMATIC FIRE SUPPRESSION SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13R.
- EACH UNIT SHALL HAVE A FIRE EXTINGUISHER INSTALLED ON THE FIRST FLOOR. EACH STORAGE ROOM AND WATER ENTRY ROOM SHALL HAVE A FIRE EXTINGUISHER INSTALLED IN THE ROOM.
- NORTH ARROW NOT SHOWN ON FLOOR PLANS.
- THE PORCH ELEVATIONS OF ALL BUILDINGS SHALL BE ORIENTED TO FACE THE STREET.

BUILDING F SHEET INDEX

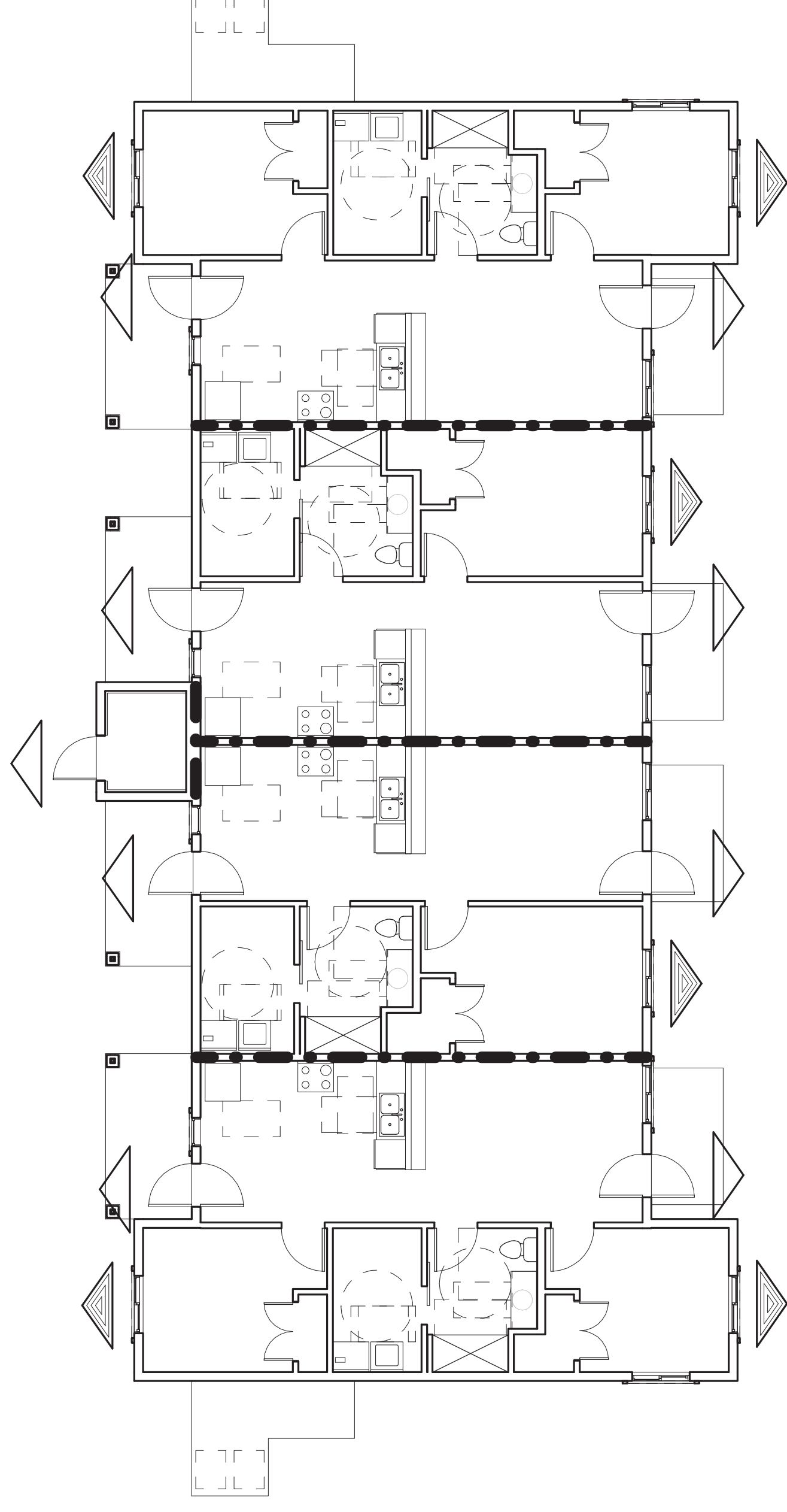
GI.OF	BUILDING F COVER, CODE STUDY, INDEX
A1.F	BUILDING F FLOOR, REFLECTED CEILING AND ROOF PLANS
A2.F	BUILDING F FLOOR, PARTITION, AND FINISH
A3.F	BUILDING F BUILDING SECTIONS
A3.2.F	BUILDING F WALL SECTIONS, RADON VENT DETAIL
A4.F	BUILDING F DOOR AND WINDOW SCHEDULES, ELEVATIONS and DETAILS
A5.F	BUILDING F FINISH SCHEDULE and INTERIOR ELEVATIONS
S1.F	FOUNDATION AND MAIN FLOOR FRAMING PLANS, GENERAL NOTES
S2.F	ROOF FRAMING PLANS AND DETAILS
M.O.F	DRAWING INDEX, GENERAL NOTES, LEGENDS AND SCHEDULES
M1.F	FIRST AND SECOND FLOOR - BUILDING F - HVAC
P.O.F	DRAWING INDEX, GENERAL NOTES AND LEGENDS
P1.F	CRAIL SPACE AND FIRST FLOOR - BUILDING F - PLUMBING
E1.OF	BLDG F - ELECTRICAL LEGENDS AND SERVICE DIAGRAMS
E1.F	BLDG F - ELECTRICAL PLANS

PROJECT TEAM

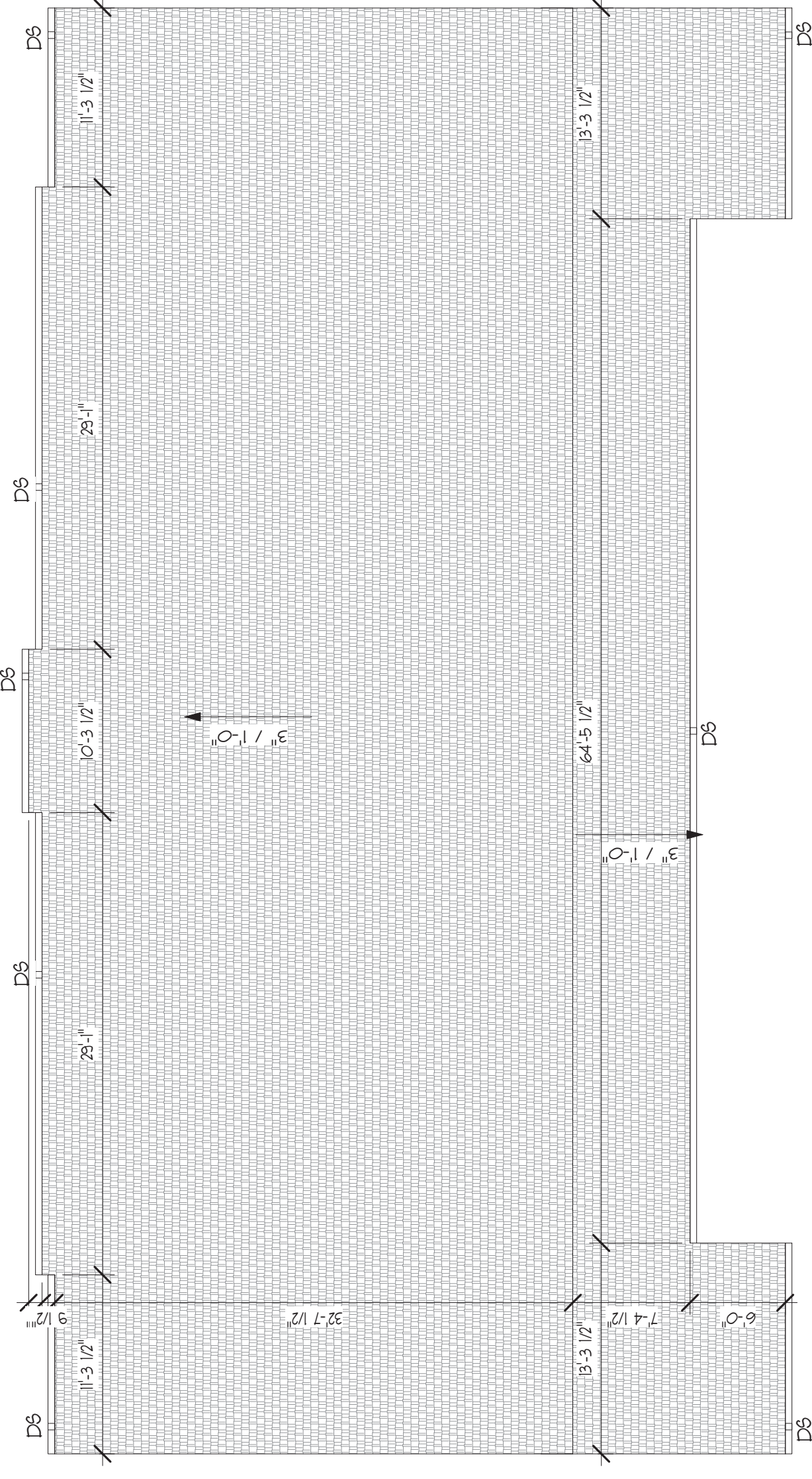
OWNER:	THE HOUSING AUTHORITY OF PUEBLO 201 S. VICTORIA PUEBLO, CO 81003 PH: 719-566-6916
ARCHITECT:	HGF ARCHITECTS, INC. 2602 N. ELIZABETH ST PUEBLO, COLORADO 81003 PH: 719-545-7600 FX: 719-545-9310
STRUCTURAL ENGINEER:	VALENTINE ENGINEERING 415 N. GREENWOOD PUEBLO, CO 81003 PH: 719-545-3530
CIVIL ENGINEER:	ALTITUDE LAND CONSULTANTS 201 E. LAS ANITAS #113 COLORADO SPRINGS, CO 80903 PH: 719-231-9395
ELECTRICAL ENGINEER:	KOHNERT ELECTRICAL ENGINEERS 911 S. 8TH ST, SUITE 200 COLORADO SPRINGS, CO 80906 PH: 719-633-2637
MECHANICAL ENGINEER:	AE ASSOCIATES 308 FULTON, SUITE 200 COLORADO SPRINGS, CO 80907 PH: 719-262-9430

DRAWING LEGEND

- DOOR TAG
- WINDOW TAG
- WALL TYPE TAG
- FLAG NOTE
- Room name
- ROOM NAME and NUMBER TAG
- CEILING TYPE TAG
- CEILING HEIGHT TAG



1st FLOOR CODE STUDY -
BLDG. F
SC: 1/8" = 1'-0" RE-A21A



CEILING TYPES

Type Mark	Description
1	5/8" TYPE "X" GYP. BD. ON ATTACHED TO UNDERSIDE OF FLOOR/ROOF FRING.
2	INTERIOR SOFFIT 1/2" TYPE "X" GYP. BD. ATTACHED TO UNDERSIDE OF FRING. WITH 1/2" TYPE "X" GYP. BD. ATTACHED TO 2x4 WD. FRING. AT 16" O.C. HANG FROM STRUCTURE ABOVE. XXXXXXXX SOFFIT ATTACHED TO UNDERSIDE OF ROOF FRAMING.
3	INTERIOR SOFFIT 1/2" TYPE "X" GYP. BD. ATTACHED TO 2x4 WD. FRING. AT 16" O.C. HANG FROM STRUCTURE ABOVE. XXXXXXXX SOFFIT ATTACHED TO UNDERSIDE OF ROOF FRAMING.
4	INTERIOR SOFFIT 1/2" TYPE "X" GYP. BD. ATTACHED TO 2x4 WD. FRING. AT 16" O.C. HANG FROM STRUCTURE ABOVE. XXXXXXXX SOFFIT ATTACHED TO UNDERSIDE OF ROOF FRAMING.

CEILING FLAG NOTES

Flag Number	Note
C1	WRAP BEAM WITH 5/8" TYPE "X" GYP. BD. PLASTER BEAM AT PORCH WITH PORTLAND CEMENT BASE COAT STUCCO SYSTEM ON HTL. DIAMOND PRE-FABRICATED METAL RAINING.
C2	WRAP BEAM WITH 5/8" TYPE "X" GYP. BD. PLASTER BEAM AT PORCH WITH PORTLAND CEMENT BASE COAT STUCCO SYSTEM ON HTL. DIAMOND PRE-FABRICATED METAL RAINING.
C3	WRAP BEAM WITH 5/8" TYPE "X" GYP. BD. PLASTER BEAM AT PORCH WITH PORTLAND CEMENT BASE COAT STUCCO SYSTEM ON HTL. DIAMOND PRE-FABRICATED METAL RAINING.
C4	HN. 20"x30" ATTC ACCESS HATCH

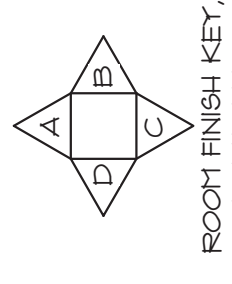
WALL TYPES

Type Mark	Description	FIRE RATING	STC RATING
1	BEARING FIRE PARTITION SEPARATION WALL (2) 1/2" TYPE "X" GYP. BD. ON 2x4 WD. FRING. WITH 1/2" TYPE "X" GYP. BD. ON BOTH SIDES. PROVIDE 3" MINERAL WOOL BATT. BARRERS/SHIMMERS BETWEEN FRING. AND 5/8" TYPE "X" GYP. BD. ON ONE SIDE ONLY. 7" HTL. SHALLENBURN GYP. BD. AND FOUNDATION UNDERSIDE OF ROOF SHEATHING ABOVE. RE. WALL SECTIONS UL DESIGN NO. U336	N/A	54
2	FIRE PARTITION SEPARATION WALL. 2x4 WD. FRING. AND 1/2" RESILIENT CHANNEL AND 5/8" TYPE "X" GYP. BD. ON OTHER SIDE OF FRING. RUN FULL HEIGHT TO FIN. 3" THK. FIBERGLASS INSULATION IN CAVITY. EXTERIOR WALL ABOVE UL DES. NO. U311	HR	50
3	FIRE PARTITION SEPARATION WALL. 2x4 WD. FRING. AND 1/2" RESILIENT CHANNEL AND 5/8" TYPE "X" GYP. BD. ON OTHER SIDE OF FRING. RUN FULL HEIGHT TO FIN. 3" THK. FIBERGLASS INSULATION IN CAVITY. EXTERIOR WALL ABOVE UL DES. NO. U311	HR	N/A
4	FIRE PARTITION SEPARATION WALL. 2x4 WD. FRING. AND 1/2" RESILIENT CHANNEL AND 5/8" TYPE "X" GYP. BD. ON OTHER SIDE OF FRING. RUN FULL HEIGHT TO FIN. 3" THK. FIBERGLASS INSULATION IN CAVITY. EXTERIOR WALL ABOVE UL DES. NO. U311	N/A	50
5	FIRE PARTITION SEPARATION WALL. 2x4 WD. FRING. AND 1/2" RESILIENT CHANNEL AND 5/8" TYPE "X" GYP. BD. ON BOTH SIDES WITH FIBERGLASS BATT INSUL. WALL MUST RUN FULL HEIGHT TO UNDERSIDE OF FLOOR OR ROOF SHEATHING ABOVE OR UNTIL IT REACHES EXTERIOR WALL. UL DES. NO. U307	N/A	N/A
6	EXTERIOR WALL. UL DES. NO. U307	N/A	N/A
7	UPPER SIDE OF FLOOR/ROOF STRUCTURE ABOVE. PORTLAND CEMENT STUCCO SYSTEM RE. SHEATHING ON FLUID APPLIED VAPOR/AIR BARRIER ON 3/4" O.C. SHEATHING ON 2x4 WD. FRING. AT 16" O.C. FULL GYP. BD. ON INTERIOR. PROVIDE FIN. R22 BATT. INSULATION IN WALL CAVITIES FULL HGT. RE.	N/A	N/A
8	PORTLAND CEMENT STUCCO SYSTEM RE. SHEATHING ON FLUID APPLIED VAPOR/AIR BARRIER ON 3/4" O.C. SHEATHING ON 2x4 WD. FRING. AT 16" O.C. FULL GYP. BD. ON INTERIOR. PROVIDE FIN. R22 BATT. INSULATION IN WALL CAVITIES FULL HGT. RE.	N/A	N/A
9	BD. BOTH SIDES	N/A	N/A
10	HALF WALL. 2x4 WD. STUDS AT 16" O.C. WITH 5/8" TYPE "X" GYP. BD. BOTH SIDES. RUN UL INSULATION ABOVE RE. INTERIOR ELEVATIONS ON SECTION/WALL SECTION SHEET FOR HEIGHT.	HR	50
11	SLOPING STAIR WALL. 2x4 WD. STUDS AT 16" O.C. WITH 5/8" TYPE "X" GYP. BD. BOTH SIDES WITH WOOD CAP. RE. SLOPING STAIR WALL INTERIOR ELEVATIONS ON SECTION/WALL SECTION SHEET FOR HEIGHT.	N/A	N/A
12	WOOD STAIR WALL. 2x4 WD. STUDS AT 16" O.C. WITH 5/8" TYPE "X" GYP. BD. BOTH SIDES WITH WOOD CAP. RE. SLOPING STAIR WALL INTERIOR ELEVATIONS ON SECTION/WALL SECTION SHEET FOR HEIGHT.	N/A	N/A
13	SLOPING STAIR DOUBLE STID WALL. TWO 2x4 WD. STUDS WITH 3"x4" AIR SPACE AT 24" O.C. WITH 5/8" TYPE "X" GYP. BD. BOTH SIDES. RE. BUILDING INSULATION ABOVE RE. INTERIOR ELEVATIONS ON SECTION/WALL SECTION SHEET FOR HEIGHT.	N/A	N/A
14	2x4 WD. STUDS AT 24" O.C. FROM TOP OF FLOOR SHEATHING TO UNDERSIDE OF STAIR STRUCTURE	N/A	N/A

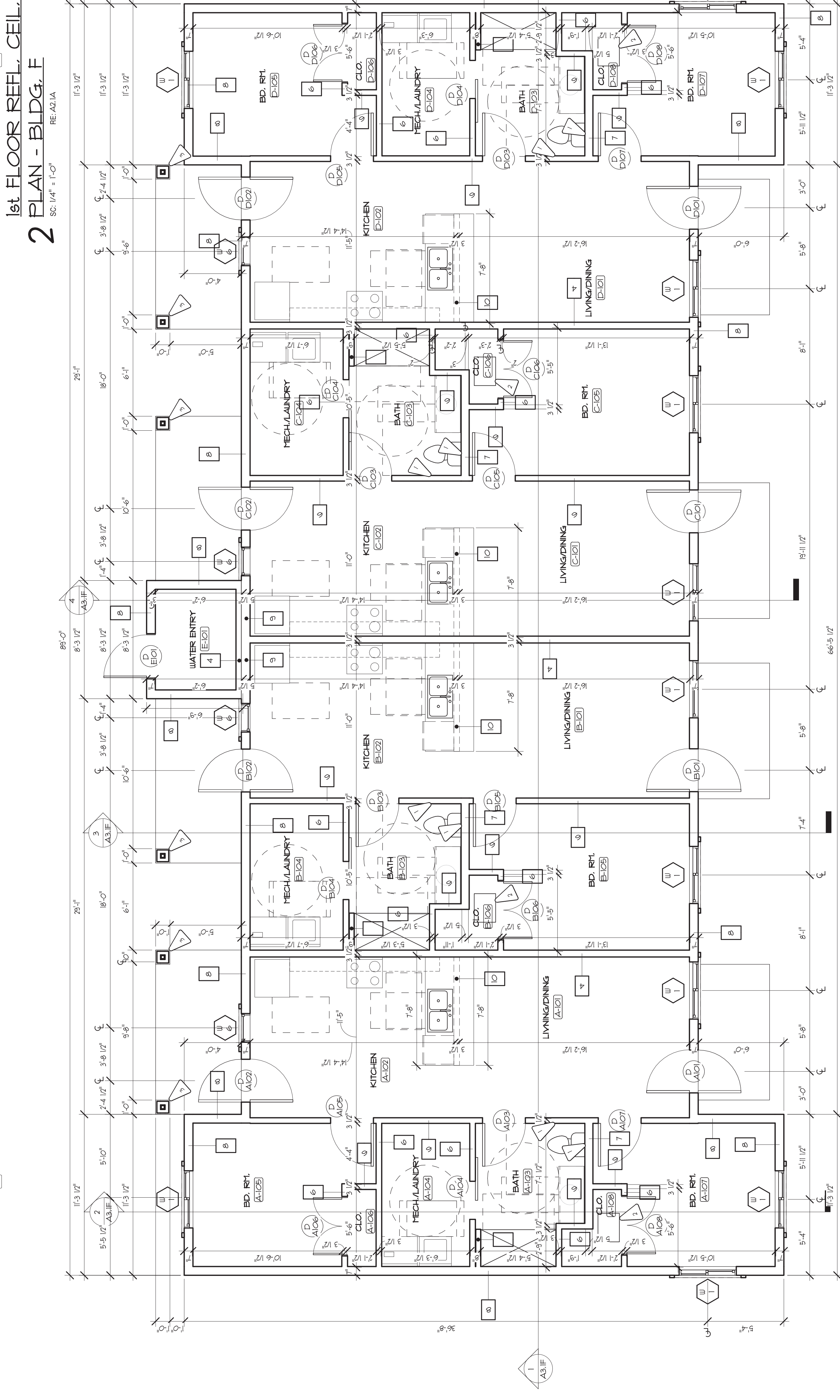
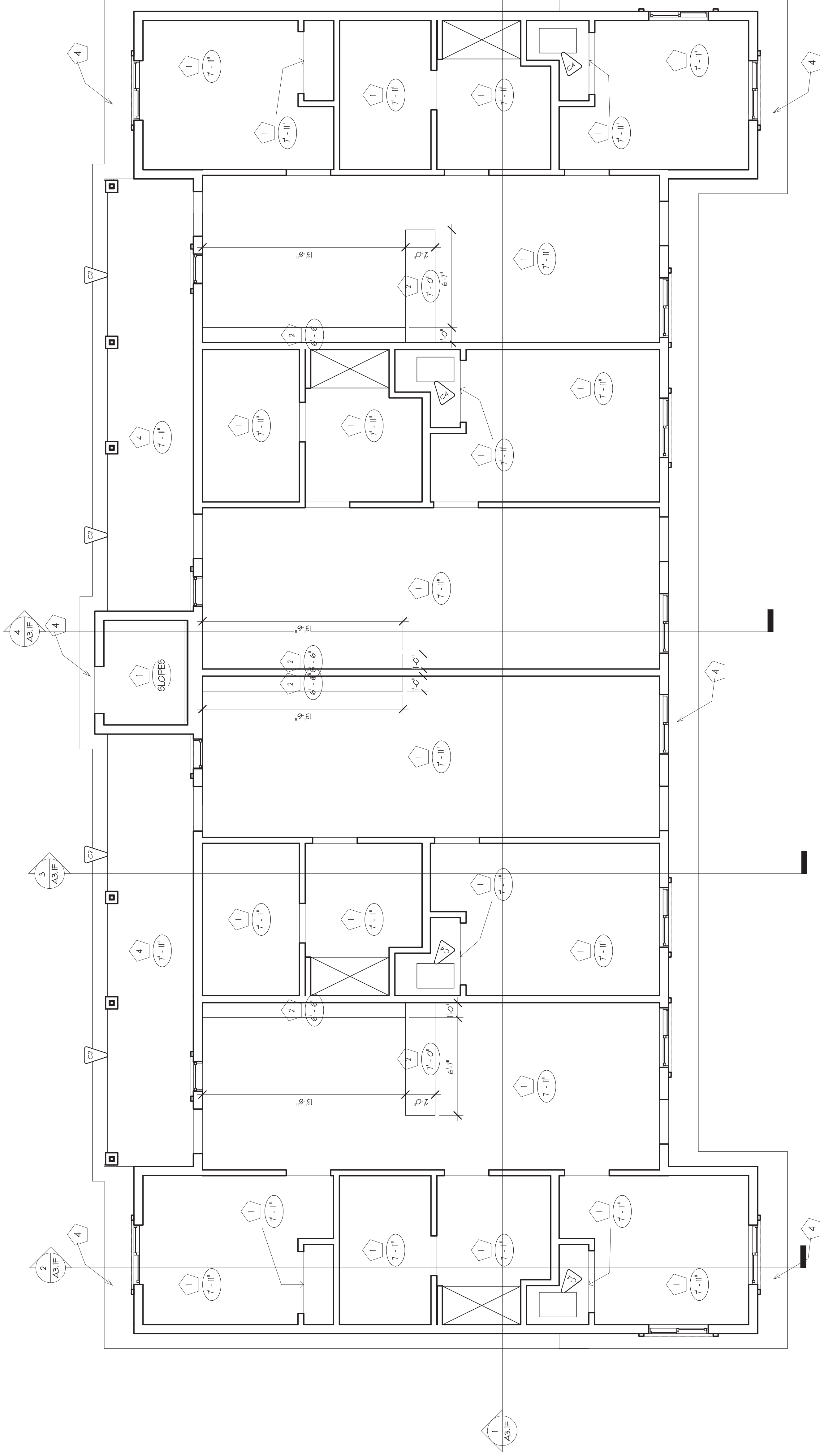
NOTES:
 0 ALL EXTERIOR FINISHES ON CORNER FINISHES FROM OUTSIDE FACE OF EXTERIOR WALL FINISHES IN REAR CHANGES FROM EXTERIOR TO INTERIOR DIMENSIONS ON FLOOR PLANS ARE BOTTOM FACE OF STUD UNLESS OTHERWISE NOTED.
 0 ALL INTERIOR FINISHES ON CORNER FINISHES FROM INTERIOR FACE OF STUD UNLESS OTHERWISE NOTED.
 0 ALL WET WALLS (ADJACENT TO SINKS, TOILETS AND WASHING MACHINES) IN LBI OF 5/8" TYPE "X" GYP. BD. PROVIDE 5/8" CEMENT BD. BEHIND ALL SHOWER/TUB ENCLOSURES IN LBI OF 5/8" TYPE "X" GYP. BD.

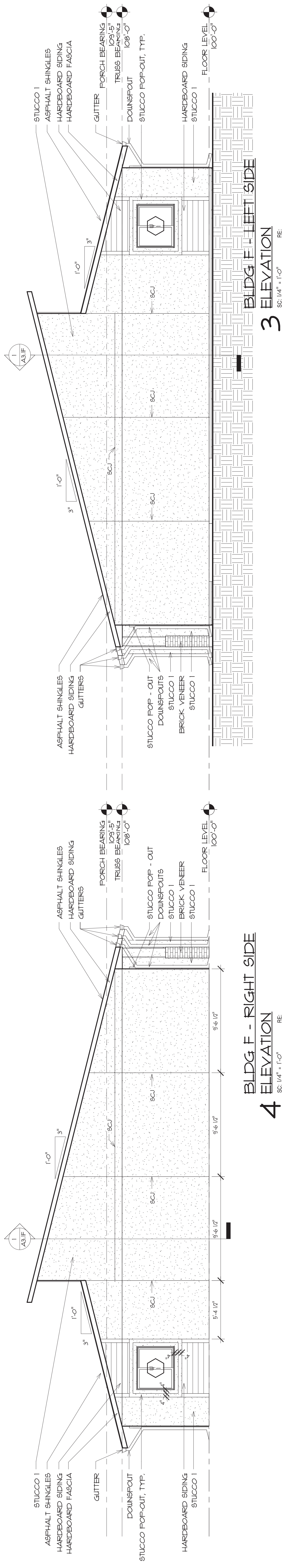
NEW WORK FLAG NOTES

Flag Number	Note
1	PROVIDE BLOCKING FOR FUTURE INSTALLATION OF GRAB BARS.
2	CEILING SPACE ABOVE FLOOR WITH TANKER PROOF SCREDS.
3	BRICK VENEER/STUCCO PORCH FOUNDATION WRAP. SUPER QUEEN SIZE BRICK VENEER FROM TOP OF FOUNDATION TO 4'-0" A.F.F. WITH STUCCO SYSTEM FOR LAURENCE CENTER. PROVIDE 3" MINERAL WOOL BATT. ON FLUID APPLIED VAPOR/AIR BARRIER ON 3/4" O.C. SHEATHING. 2x4 WD. FRING. FROM TOP OF BRICK TO UNDERSIDE OF SHEATHING.
4	STAIR HANDRAIL AT 3/4" ABOVE EDGE OF STAIR NOSING. ONE SIDE OF STAIR ONLY.
5	WRAP STRUCTURAL COLUMN WITH 5/8" TYPE "X" GYP. BD. WITH 1/2" RESILIENT CHANNEL AND 5/8" TYPE "X" GYP. BD. ON OTHER SIDE OF FRING. RUN FULL HEIGHT TO FIN. 3" THK. FIBERGLASS INSULATION IN CAVITY.
6	WRAP GUARD RAIL FINISHES, SEE SPECIFICATIONS.
7	WRAP GUARD RAIL FINISHES, SEE SPECIFICATIONS.

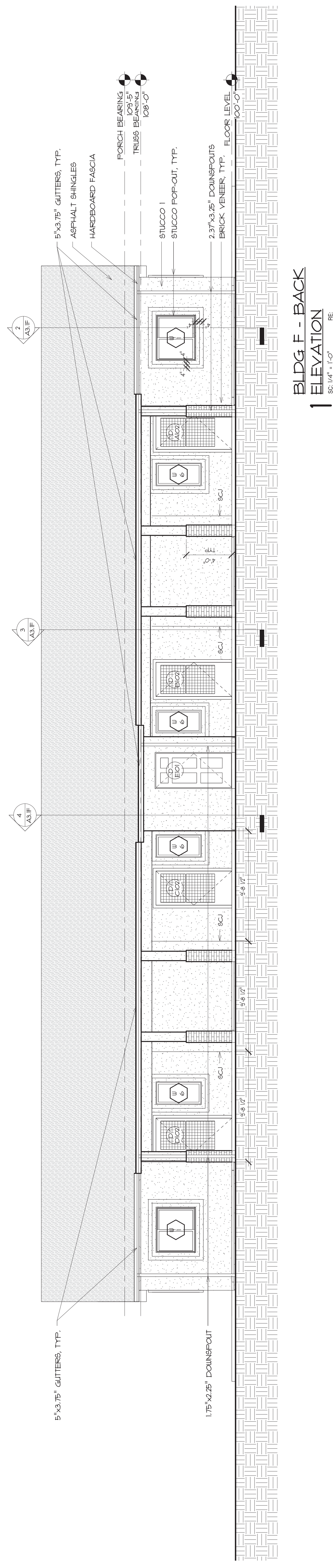
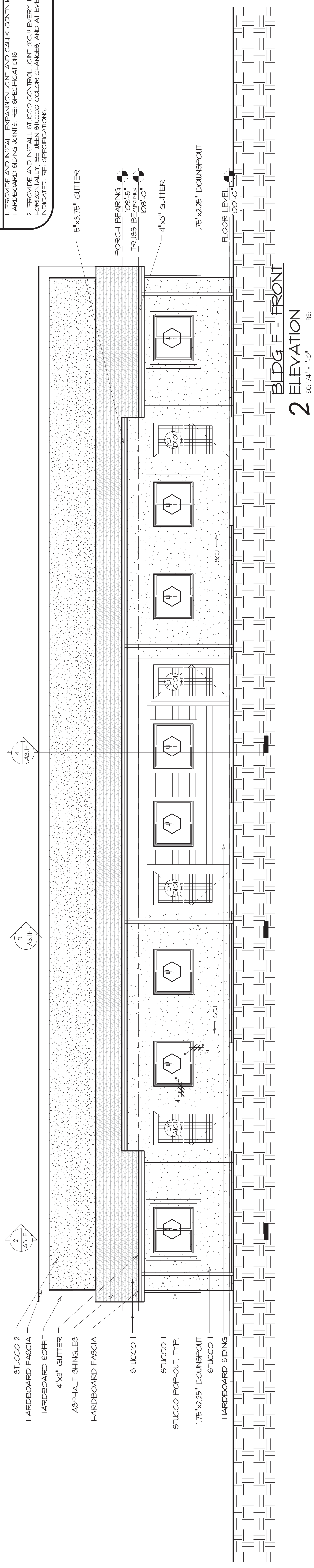


1st FLOOR - BLDG. F
 SC: 1/4" = 1'-0"
 RE-A21A





ELEVATION GENERAL NOTES:
1. PROVIDE AND INSTALL BEARING JOINT AND CAULK CONTINUOUSLY AT ALL STUCCO TO HARDBOARD SIDING JOINTS. RE SPECIFICATIONS.
2. PROVIDE AND INSTALL STUCCO CONTROL JOINT (SCJ) EVERY 12'-0" VERTICALLY AND AT EVERY OTHER LOCATION INDICATED. RE SPECIFICATIONS.

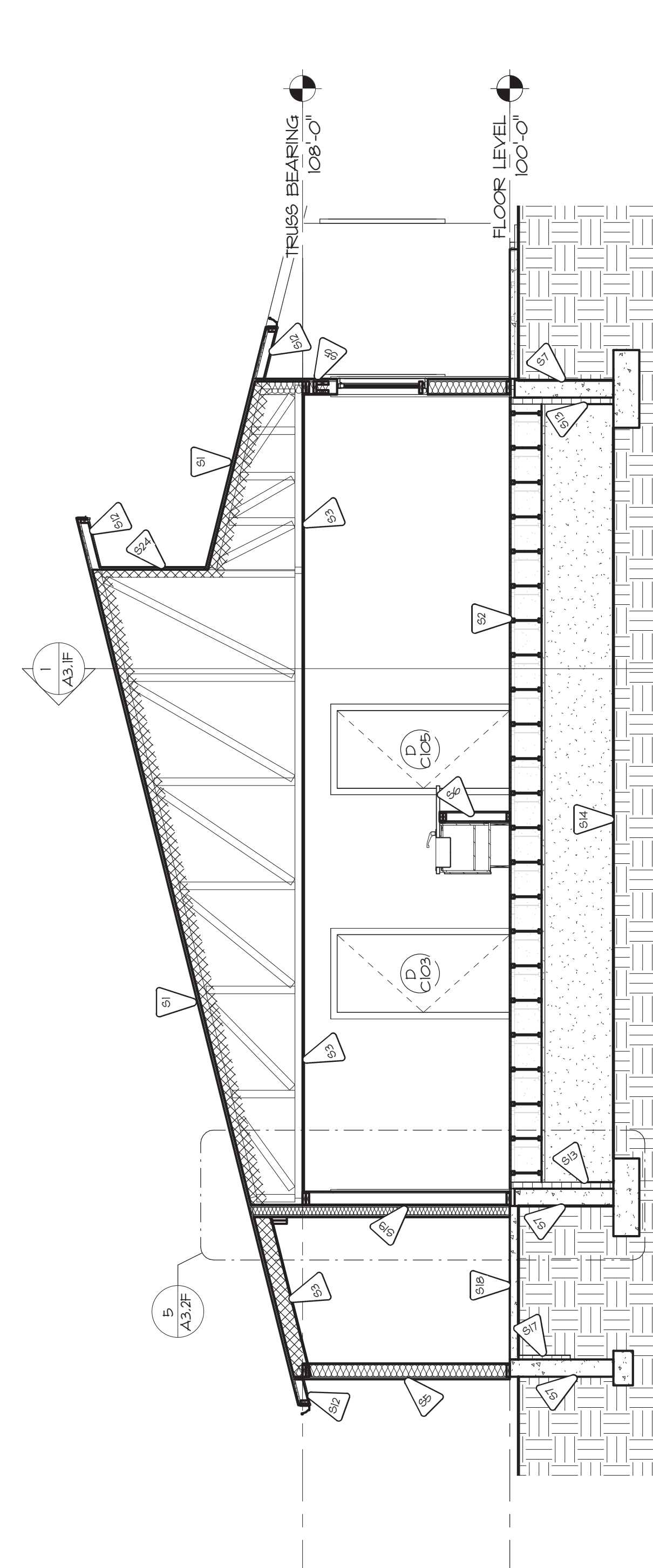


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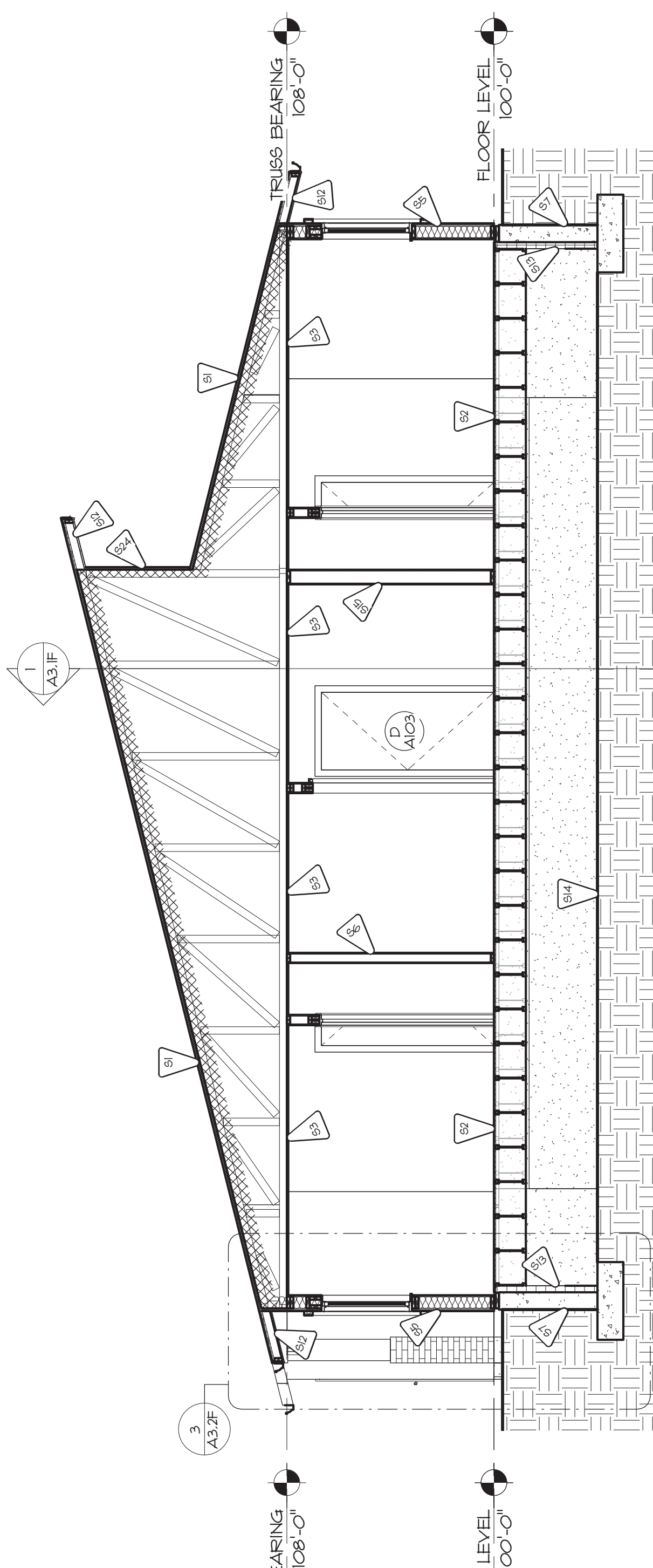
SECTION FLAG NOTES

Flag Note Number	NOTE
51	CLASS A, 30 yr. min. ASPHALT SATURATED SHINGLES. COLOR TO BE SELECTED FROM MANUFACTURERS STANDARD COLOR RANGE ON (2) TWO LAYERS 30 lb. FELT ON 5/8" MIN. THICK 1/2" MIN. GYP. BOARD. PROVIDE RA49 SPRAYED-ON FIRE-RATE WOOD TRUSS. PROVIDE RA49 SPRAYED-ON CLOSED CELL FOAM INSUL. TO UNDERSIDE OF ROOF.
52	FLOOR FINISH: 1/2" THICK 1/2" MIN. GYP. BOARD ON 1/2" O.C. FINISH CEILING: 5/8" TYPE "X" GYP. BOARD ON UNDERSIDE OF ROOF/FLOOR FRG.
53	BEARING FIRE PARTITION WALL (2) LAYERS 1/2" MIN. THICK 1/2" MIN. GYP. BOARD ON 1/2" O.C. AND 5/8" TYPE "X" GYP. BOARD ON BOTH SIDES. PROVIDE 3" MINERAL WOOL INSULATION IN CAVITY OF PARTITION WALL. PROVIDE 1/2" BASSWOOD MEMBRANE OVER FRG. PROVIDE 1/2" TYPE "X" GYP. BOARD ON ONE SIDE ONLY. 2" HTL. CRACKER, GYP. BOARD AND 3/4" AIRSPACE CORE SHALL RUN FROM TOP OF PARTITION WALL TO CEILING. PROVIDE 1/2" TYPE "X" GYP. BOARD ON INSIDE OF PARTITION WALL. PROVIDE 1/2" TYPE "X" GYP. BOARD ON INSIDE OF PARTITION WALL. PROVIDE 1/2" TYPE "X" GYP. BOARD ON INSIDE OF PARTITION WALL.
54	EXTERIOR LAP SIDING/STUCCO WALL, RE. WALL TYPES SHEET PILING, 2x4 UNFRAMED WALL, RE. WALL TYPES, FOUNDATION RE. STRUCTURAL.
55	WOOD STAIR RISERS AND TREAD DO NOT PENETRATE ADJACENT FIRE RATED WALLS WITH STAIR STRUCTURE. GYP. BOARD, SOFFIT 5/8" TYPE "X" GYP. BOARD ON ONE SIDE OF WALL. PROVIDE 1/2" TYPE "X" GYP. BOARD ON OTHER SIDE. WIDTH VARIES. RE. REFLECTED CEILING PLANS.
56	WOOD STAIR HAND RAIL AT 3'-0" H. FROM FRONT EDGE OF TREAD NOSING. SLOPED CEILING AT STAIRS 2x4 UNFRAMED WALL, RE. WALL TYPES. PROVIDE 1/2" TYPE "X" GYP. BOARD ON SLOPED CEILING WITH 5/8" MIN. R49 CONTINUOUS INSULATION RUN DOWN FROM UNDERSIDE OF SLAB FOR 2'-0".
57	EXTERIOR NON-PERFORATED HARDBOARD SOFFIT WITH 1/2" MIN. THICK 1/2" MIN. GYP. BOARD ON INSIDE. INSULATION EXTEND FROM THE FLOOR ABOVE DOWN THE FULL LENGTH OF STEEL WALL.
58	ALL EXPOSED EARTH IN CRAWL SPACE SHALL BE PROTECTED WITH 1/2" MIN. THICK 1/2" MIN. GYP. BOARD OR VAPOR RETARDER. VAPOR RETARDER SHALL EXTEND UP STEEL WALL MIN. 12" ABOVE RETARDER. VAPOR RETARDER SHALL EXTEND UP STEEL WALL MIN. 12" ABOVE RETARDER. VAPOR RETARDER SHALL EXTEND UP STEEL WALL MIN. 12" ABOVE RETARDER. VAPOR RETARDER SHALL EXTEND UP STEEL WALL MIN. 12" ABOVE RETARDER.
59	INTERIOR DOUBLE 2x4 STUD WALL, RE. WALL TYPES. PROVIDE 1/2" TYPE "X" GYP. BOARD ON INSIDE OF WALL. PROVIDE 1/2" TYPE "X" GYP. BOARD ON INSIDE OF WALL. PROVIDE 1/2" TYPE "X" GYP. BOARD ON INSIDE OF WALL.
60	INTERIOR NON-PERFORATED HARDBOARD SOFFIT WITH 1/2" MIN. THICK 1/2" MIN. GYP. BOARD ON INSIDE. INSULATION EXTEND FROM THE FLOOR ABOVE DOWN THE FULL LENGTH OF STEEL WALL.
61	ALL EXPOSED EARTH IN CRAWL SPACE SHALL BE PROTECTED WITH 1/2" MIN. THICK 1/2" MIN. GYP. BOARD OR VAPOR RETARDER. VAPOR RETARDER SHALL EXTEND UP STEEL WALL MIN. 12" ABOVE RETARDER. VAPOR RETARDER SHALL EXTEND UP STEEL WALL MIN. 12" ABOVE RETARDER. VAPOR RETARDER SHALL EXTEND UP STEEL WALL MIN. 12" ABOVE RETARDER.
62	INTERIOR DOUBLE 2x4 STUD WALL, RE. WALL TYPES. PROVIDE 1/2" TYPE "X" GYP. BOARD ON INSIDE OF WALL. PROVIDE 1/2" TYPE "X" GYP. BOARD ON INSIDE OF WALL. PROVIDE 1/2" TYPE "X" GYP. BOARD ON INSIDE OF WALL.
63	4" THICK CONCRETE SLAB, RE. STRUCTURAL. PROVIDE 1/2" TYPE "X" GYP. BOARD ON INSIDE OF SLAB. PROVIDE 1/2" TYPE "X" GYP. BOARD ON INSIDE OF SLAB. PROVIDE 1/2" TYPE "X" GYP. BOARD ON INSIDE OF SLAB.
64	SOFFIT STAIRS WALL, WOOD WALL CAP, RE. WOOD WALL CAP. PROVIDE 1/2" TYPE "X" GYP. BOARD ON INSIDE OF WALL. PROVIDE 1/2" TYPE "X" GYP. BOARD ON INSIDE OF WALL. PROVIDE 1/2" TYPE "X" GYP. BOARD ON INSIDE OF WALL.
65	FIRE PARTITION SEPARATION WALL WITH BOUNDARY: RE. CLASS A, 30 yr. min. ASPHALT SATURATED SHINGLES. COLOR TO BE SELECTED FROM MANUFACTURERS STANDARD COLOR RANGE ON (2) TWO LAYERS 30 lb. FELT ON 5/8" MIN. THICK 1/2" MIN. GYP. BOARD. PROVIDE RA49 SPRAYED-ON FIRE-RATE WOOD TRUSS. PROVIDE RA49 SPRAYED-ON CLOSED CELL FOAM INSUL. TO UNDERSIDE OF ROOF.
66	PROVIDE 1/2" THICK OSB WITH FLUID APPLIED VAPOR/AIR BARRIER & LINE OF EXTERIOR WALL BELOW IN TRUSS PORTLAND CEMENT STUCCO SYSTEM RE SPECIFICATIONS. PROVIDE 1/2" THICK OSB WITH FLUID APPLIED VAPOR/AIR BARRIER & LINE OF EXTERIOR WALL BELOW IN TRUSS PORTLAND CEMENT STUCCO SYSTEM RE SPECIFICATIONS. PROVIDE 1/2" THICK OSB WITH FLUID APPLIED VAPOR/AIR BARRIER & LINE OF EXTERIOR WALL BELOW IN TRUSS PORTLAND CEMENT STUCCO SYSTEM RE SPECIFICATIONS.
67	STAIR POINT WALL 2x4 UNFRAMED WALL, RE. WALL TYPES. PROVIDE 1/2" TYPE "X" GYP. BOARD ON INSIDE OF WALL. PROVIDE 1/2" TYPE "X" GYP. BOARD ON INSIDE OF WALL. PROVIDE 1/2" TYPE "X" GYP. BOARD ON INSIDE OF WALL.
68	STAIR POINT WALL 2x4 UNFRAMED WALL, RE. WALL TYPES. PROVIDE 1/2" TYPE "X" GYP. BOARD ON INSIDE OF WALL. PROVIDE 1/2" TYPE "X" GYP. BOARD ON INSIDE OF WALL. PROVIDE 1/2" TYPE "X" GYP. BOARD ON INSIDE OF WALL.

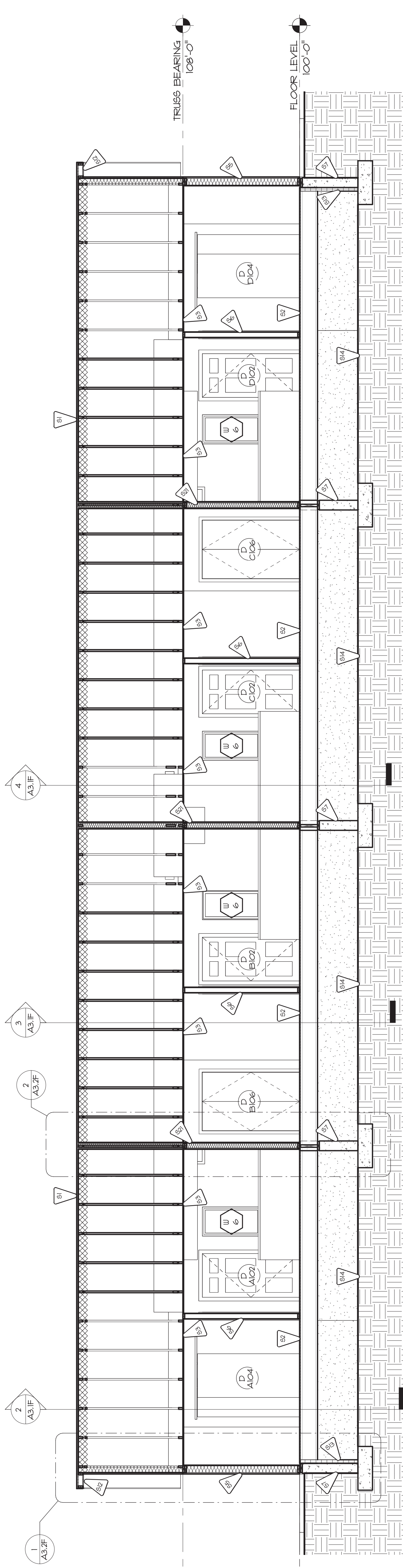
GENERAL NOTES:
1. INTERIORS SLABS LOCATED DIRECTLY ADJACENT TO BUILDING FOUNDATIONS. RE. CONC. PAD TO FOUNDATION WITH 4" REBAR DOSEL. @ 24" O.C. TYP.



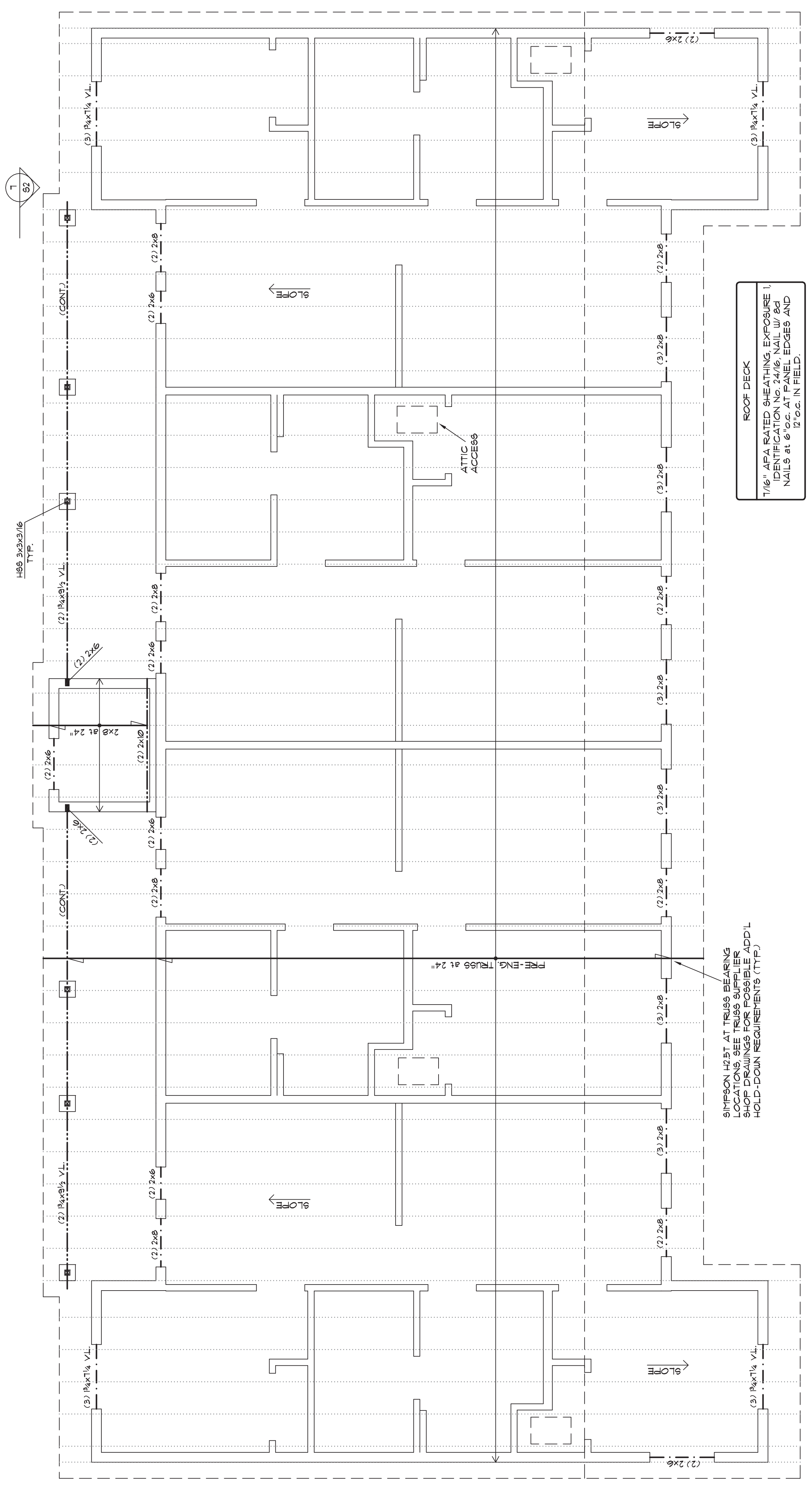
4 BLDG F CROSS SECTION 3
SC: 1/4" = 1'-0"
RE: A3.IF
NOTE: ALL CASEWORK/EQUIPMENT NOT SHOWN. REFER TO INTERIOR ELEVATIONS FOR CASEWORK/EQUIPMENT



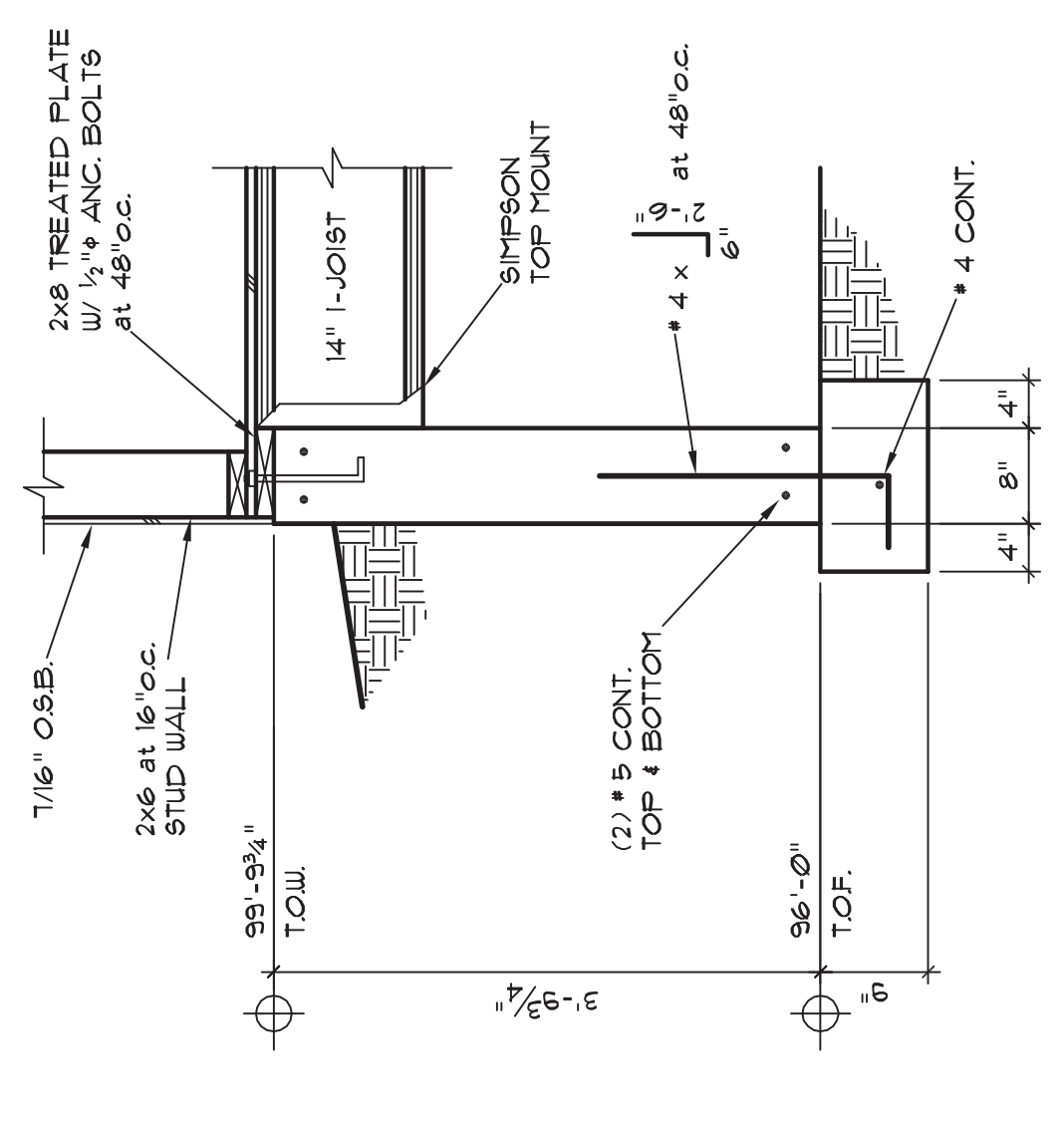
3 BLDG F CROSS SECTION 2
SC: 1/4" = 1'-0"
RE: A3.IF
NOTE: CASEWORK/EQUIPMENT NOT SHOWN. REFER TO INTERIOR ELEVATIONS FOR CASEWORK/EQUIPMENT



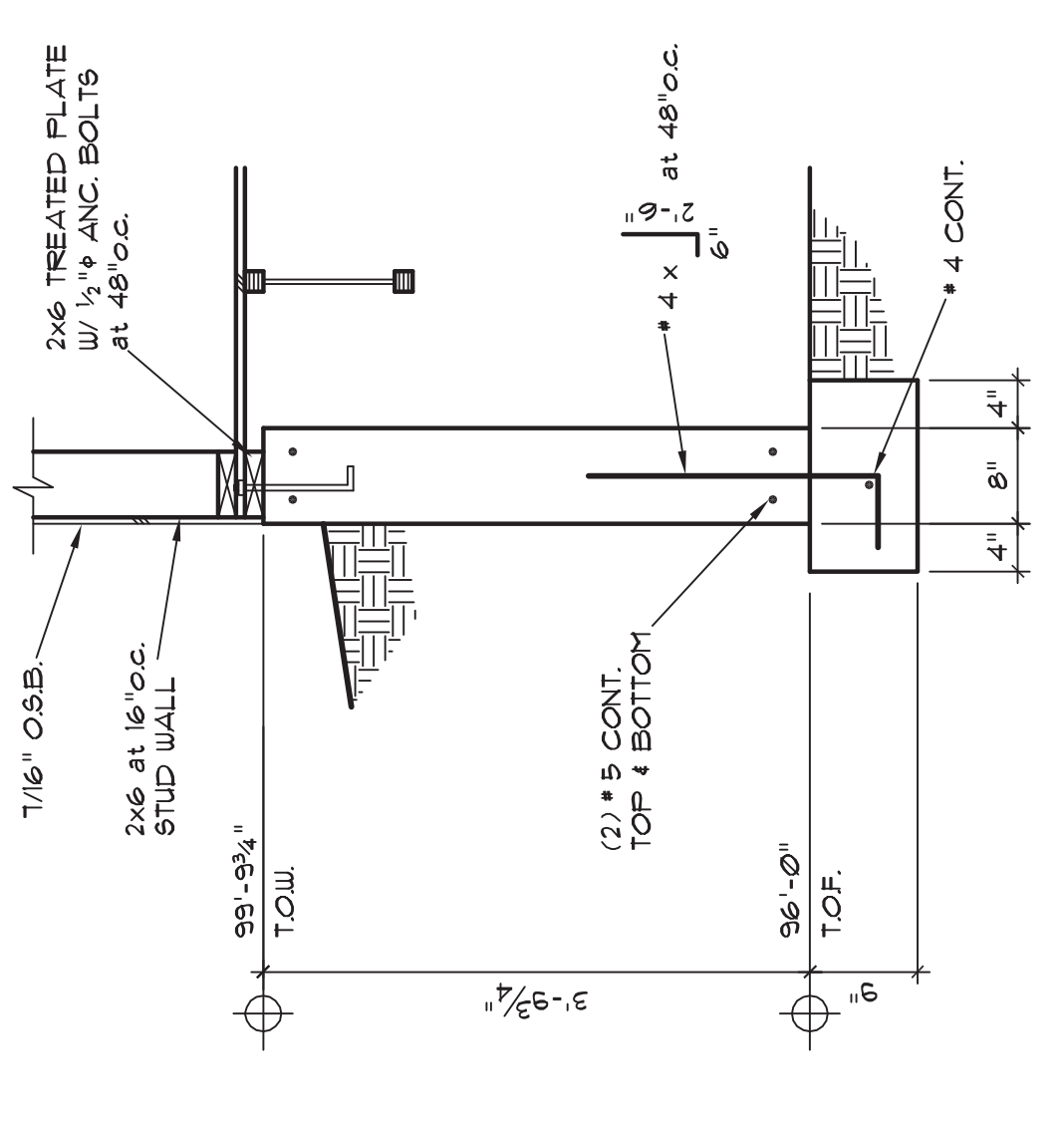
1 BLDG F CROSS SECTION 1
SC: 1/4" = 1'-0"
RE: A3.IF
NOTE: CASEWORK/EQUIPMENT NOT SHOWN. REFER TO INTERIOR ELEVATIONS FOR CASEWORK/EQUIPMENT



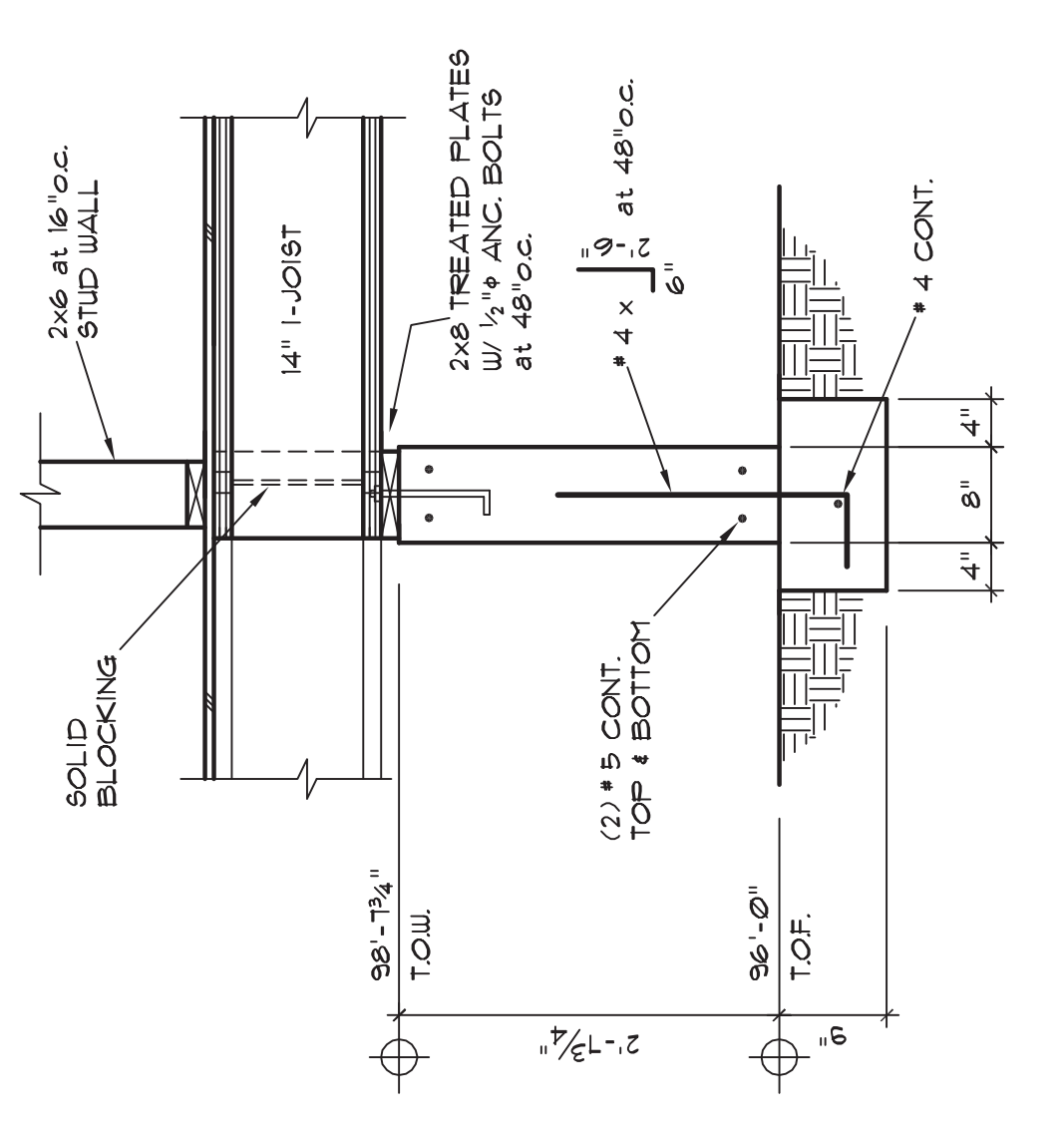
ROOF FRAMING PLAN
 SCALE: 1/4"=1'-0"



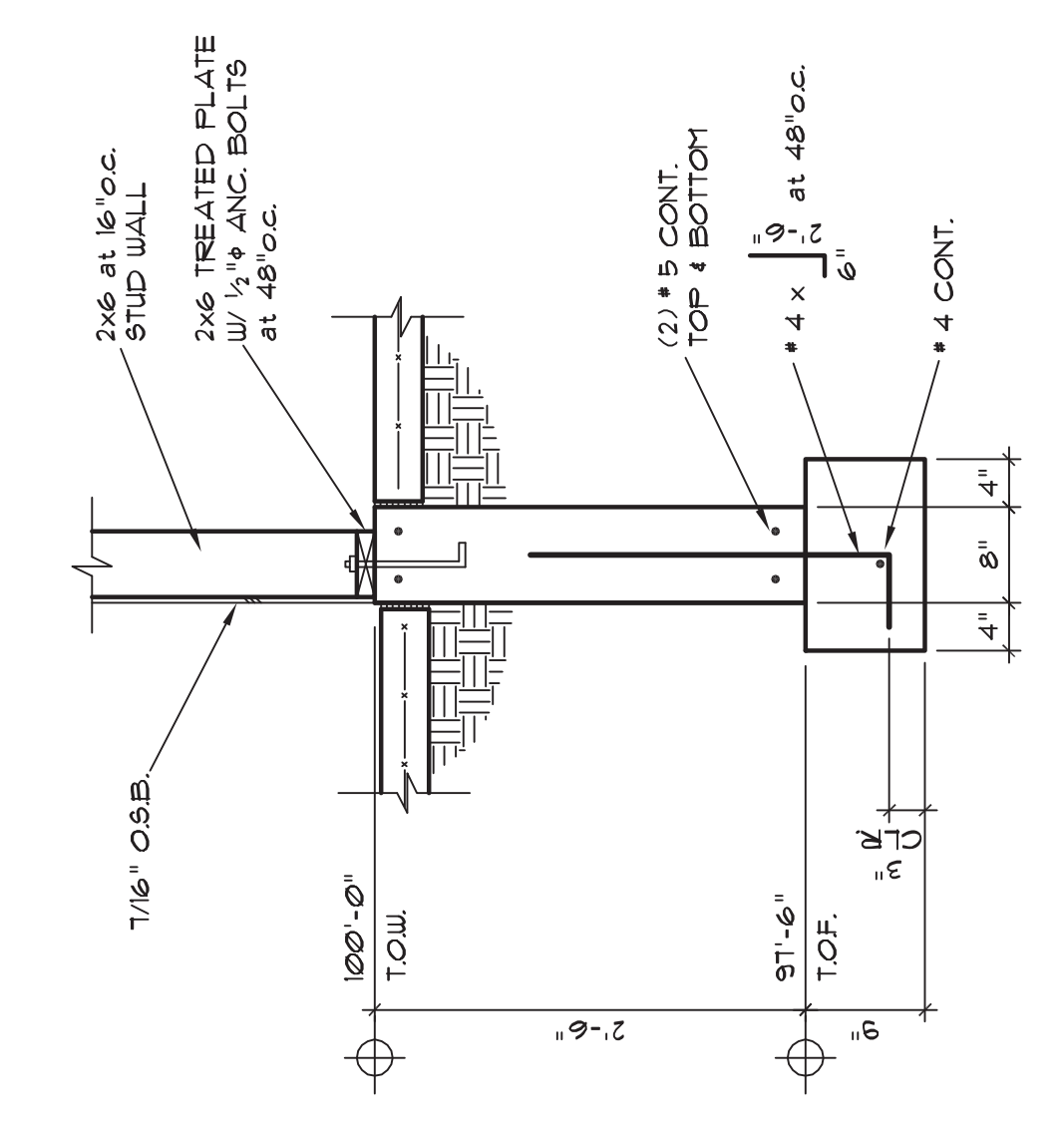
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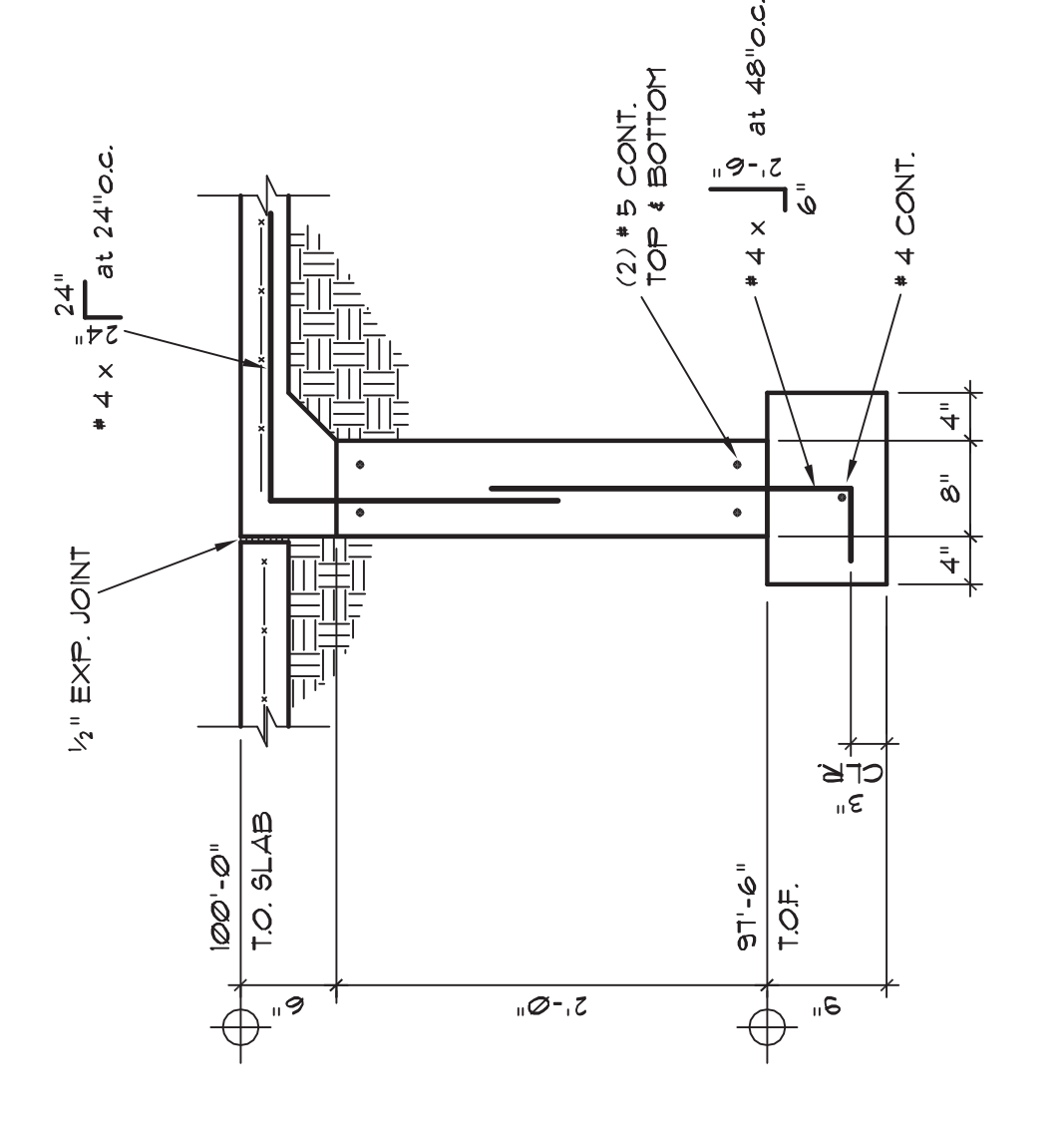
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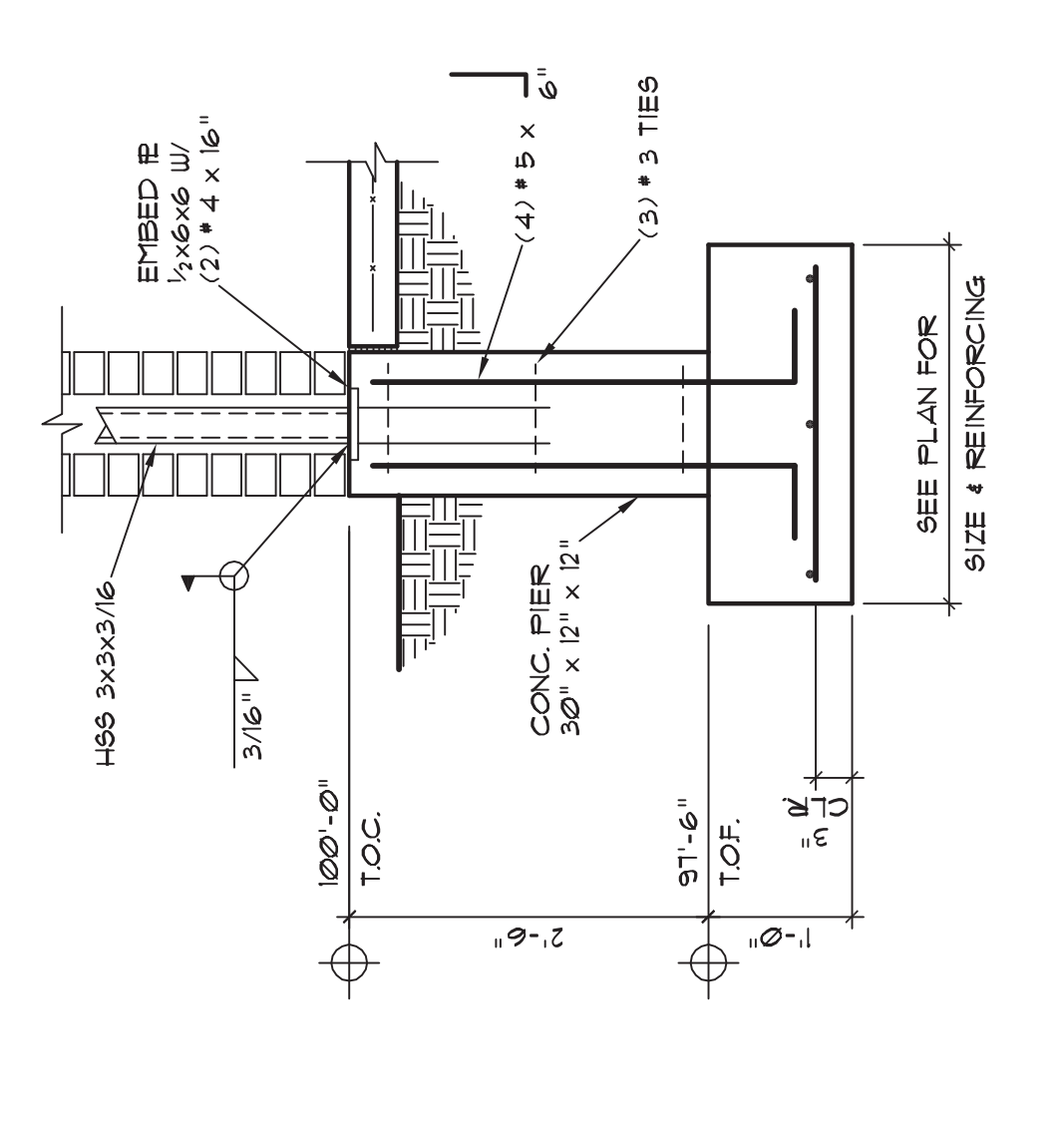
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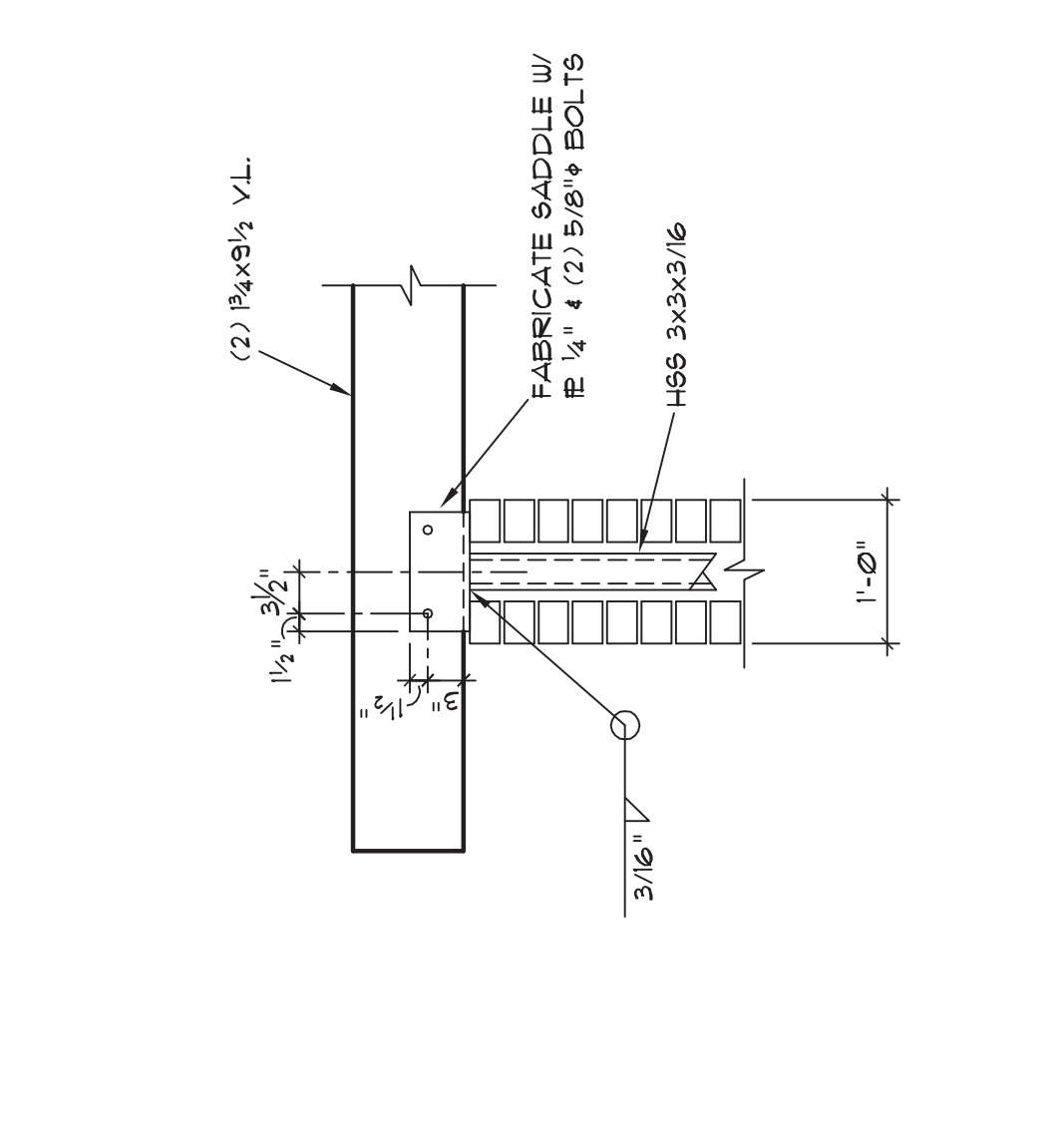
4 SCALE: 3/4"=1'-0"



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



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



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

DRAWING INDEX

REVISIONS	DATE	BY	DESCRIPTION
1	02/23/2011	MM	ISSUED FOR CONSTRUCTION
2	02/23/2011	MM	ISSUED FOR REFERENCE ONLY, NOT FOR CONSTRUCTION

DRAWING INDEX

NUMBER	DRAWING TITLE	DATE
101	GENERAL NOTES	02/23/2011
102	DUCT SYSTEM NOTES	02/23/2011
103	FAN COIL SCHEDULE	02/23/2011
104	EXHAUST FAN SCHEDULE	02/23/2011
105	RANGE HOOD SCHEDULE	02/23/2011
106	ELECTRIC HEATER SCHEDULE	02/23/2011
107	GRILLE, REGISTER, AND DIFFUSER SCHEDULE	02/23/2011
108	REFRIGERATION PIPING DIAGRAM	02/23/2011
109	CONDENSING UNIT AND DX COOLING COIL SCHEDULE	02/23/2011

DUCT SYSTEM NOTES

- ALL DUCTWORK UNLESS SPECIFICALLY INDICATED SHALL BE GALVANIZED SHEET METAL INSTALLED IN ACCORDANCE WITH THE SHAMA DUCT CONSTRUCTION STANDARDS. SEAM CLASS B. DIMENSIONS SHOWN ARE NET CLEAR INSIDE DIMENSIONS. ALLOWANCES MUST BE MADE FOR DUCT L INER WHERE CALLED FOR.
- ALL SUPPLY DUCTWORK SHALL HAVE ALL JOINTS SEALED WITH "HARDCAST" OR EQUAL DUCT SEALER/MASTIC.
- ALL CONCEALED ROUND SUPPLY AIR DUCTS 12" AND SMALLER SHALL BE GALVANIZED SHEET METAL SNAP-LOCK, ROUND SUPPLY DUCT GREATER THAN 12" SHALL BE GALVANIZED SHEET METAL SPIRAL, PROVIDE 1" FIBERGLASS INSULATION UNAP. INSULATED FLEXIBLE DUCT MAY BE USED FOR THE CONNECTION TO THE AIR OUTLET PROVIDED THE LENGTH OF THE FLEXIBLE DUCT DOES NOT EXCEED 6' LINEAR FEET.
- FACTORY MADE AIR DUCTS SHALL CONFORM TO UL 181 AND INCLUDE APPROPRIATE LABEL. FLEXIBLE DUCTWORK SHALL BE APPROVED CLASS 0 OR CLASS 1, LENGTH NOT TO EXCEED 6'-0".
- ALL BRANCH DUCT CONNECTIONS TO AIR OUTLETS AND AIR INLETS SHALL BE THE SAME SIZE AS THE DEVICE NECK UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- ALL ENVIRONMENTAL AIR EXHAUST DUCTS SHALL BE SEALED WITH "HARDCAST" OR EQUAL.
- DUCT HANGERS SHALL BE A MINIMUM 1/2" X 26 GAUGE GALVANIZED STEEL.
- PROVIDE SINGLE THICKNESS TURNING VANES IN ALL SQUARE AND RECTANGULAR ELBOUGS IN SUPPLY, RETURN SYSTEMS.
- ALL FIRE DAMPERS SHALL BE LABELED FOR USE IN DYNAMIC SYSTEMS UNLESS OTHERWISE SPECIFIED.

GENERAL NOTES - HVAC

- RESOLVE ALL QUESTIONS OR CONFLICTS WITH ENGINEERS BEFORE ANY EQUIPMENT IS ORDERED, MATERIALS FABRICATED OR SYSTEMS INSTALLED.
- COORDINATE THE INSTALLATION OF MECHANICAL SYSTEMS WITH OTHER TRADES ESPECIALLY STRUCTURAL, PLUMBING, ELECTRICAL AND ARCHITECTURAL CEILING HEIGHTS.
- COORDINATE ALL PENETRATIONS THROUGH STRUCTURAL MEMBERS WITH THE GENERAL CONTRACTOR.
- COORDINATE AND VERIFY THAT ALL OPENINGS IN WALLS ABOVE CEILING / DOOR LOUVERS / DOOR UNDERCUTS ARE PROVIDED AS INDICATED ON THESE DRAWINGS.
- LEVEL ALL EQUIPMENT CURBS / BASES PRIOR TO INSTALLATION OF ANY EQUIPMENT. INSTALL FULL SIZE CONDENSATE DRAIN WITH TRAP SEAL ABOVE THE EQUIPMENT CURB. PROVIDE SUFFICIENT PRESSURE FOR EACH COOLING COIL. ENSURE THAT THE TOP OF GROUND MOUNTED EQUIPMENT FADS ARE AT LEAST 3" ABOVE FINAL GRADE.
- PROVIDE OFFSETS AS NECESSARY TO ACCOMMODATE STRUCTURE AND OTHER TRADES.
- SEAL ALL ROOF PENETRATIONS WATER TIGHT WITH SEALANT/CALKING OR SYSTEM COMPATIBLE WITH ROOFING.
- ALL PIPING PENETRATIONS THROUGH FLOORS SHALL BE SEALED WATER TIGHT BY GROUTING FEMHER GAP BETWEEN PIPE AND FLOOR APPROVED SEALANT.
- MATERIALS EXPOSED IN PLUMBING SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 100.
- BIRD SCREEN UNLESS OTHERWISE SPECIFIED SHALL BE 1/4" STEEL MESH.
- INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2005 INTERNATIONAL MECHANICAL CODE APPLICABLE SECTIONS OF THE INTERNATIONAL BUILDING CODE AND APPLICABLE SECTIONS OF THE PUEBLO BUILDING CODE.

CONDENSING UNIT AND DX COOLING COIL SCHEDULE

NOTES: 1) PROVIDE REFRIGERATION PIPING ACCORDING TO MANUFACTURERS RECOMMENDATIONS. 2) SCROLL COMPRESSOR. 3) 1/8" BEER. 4) R-410A REFRIGERANT. 5) CURVED LOUVER PANELS. 6) LIQUID LINE 3/8". SUCTION LINE 1/2". 7) CC IS INTEGRAL TO FAN COIL.

TAG	MANUFACTURER	CU MODEL	NOMINAL TONS	ELECTRICAL VOLTS/PH	MCA	KCP	WEIGHT (LBS)	SERVES	NOTES
CU-01	CARRIER	24ANB630A0003	15	230/1	11.1	20	84	FC-01, 04	1, 2, 3, 4, 5, 6, 7
CU-02	CARRIER	24ANB630A0003	2.0	230/1	11.5	25	196	FC-02, 05	1, 2, 3, 4, 5, 6, 7
CU-03	CARRIER	24ANB630A0003	2.5	230/1	18	25	193	FC-03, 06	1, 2, 3, 4, 5, 6, 7

EXHAUST FAN SCHEDULE

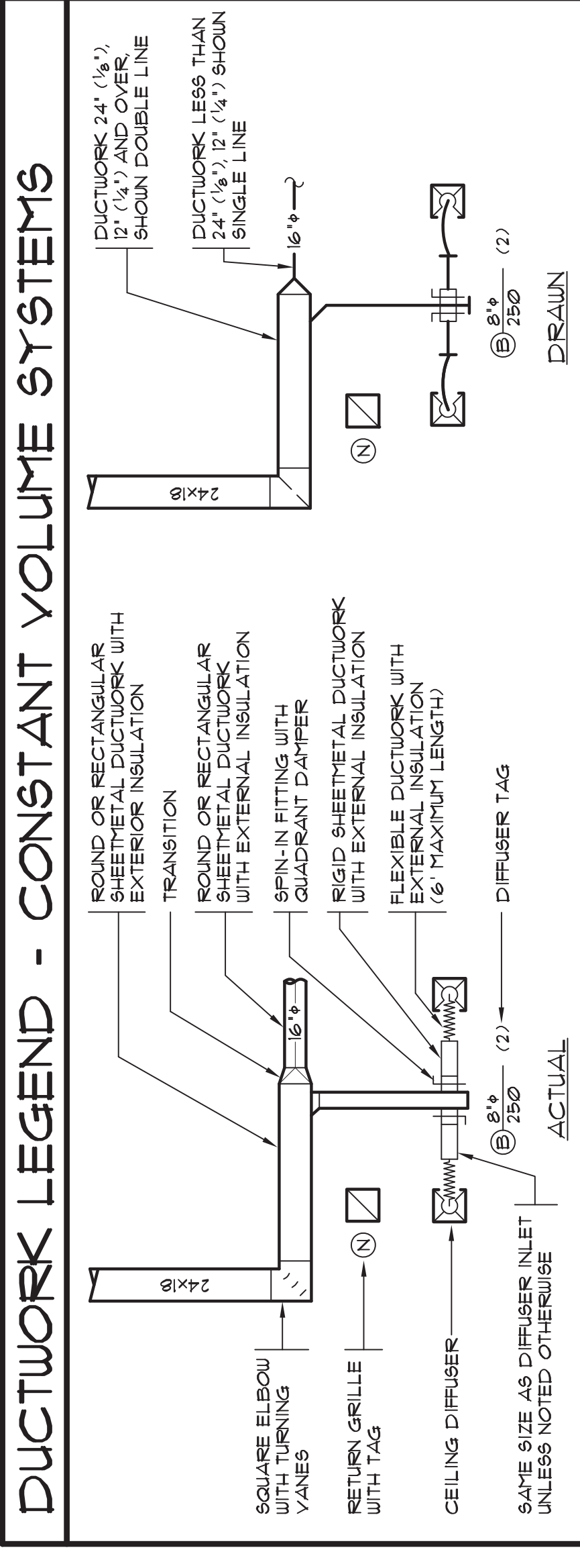
NOTES: 1) INCLUDES WHITE PLASTIC GRILLE. 2) MEETS ENERGY STAR RATINGS AND ASHRAE STD 62.2. 3) BACKDRAFT DAMPER. 4) INCLUDE MULTI-SPEED MODULE. 5) SWITCH WITH LIGHT SWITCH. 6) CONTINUOUS VENTILATION.

TAG	MANUF.	MODEL	CFM	ESP INCH WC	TYPE	DRIVE	BORES	WATTS	VOLTS/PH	NOTES
EF-01	PANASONIC	FV-05-TV1K1	30/80	0.4/0	CEILING	DIRECT	5	25	120/1	1, 2, 3, 4, 5, 6

RANGE HOOD SCHEDULE

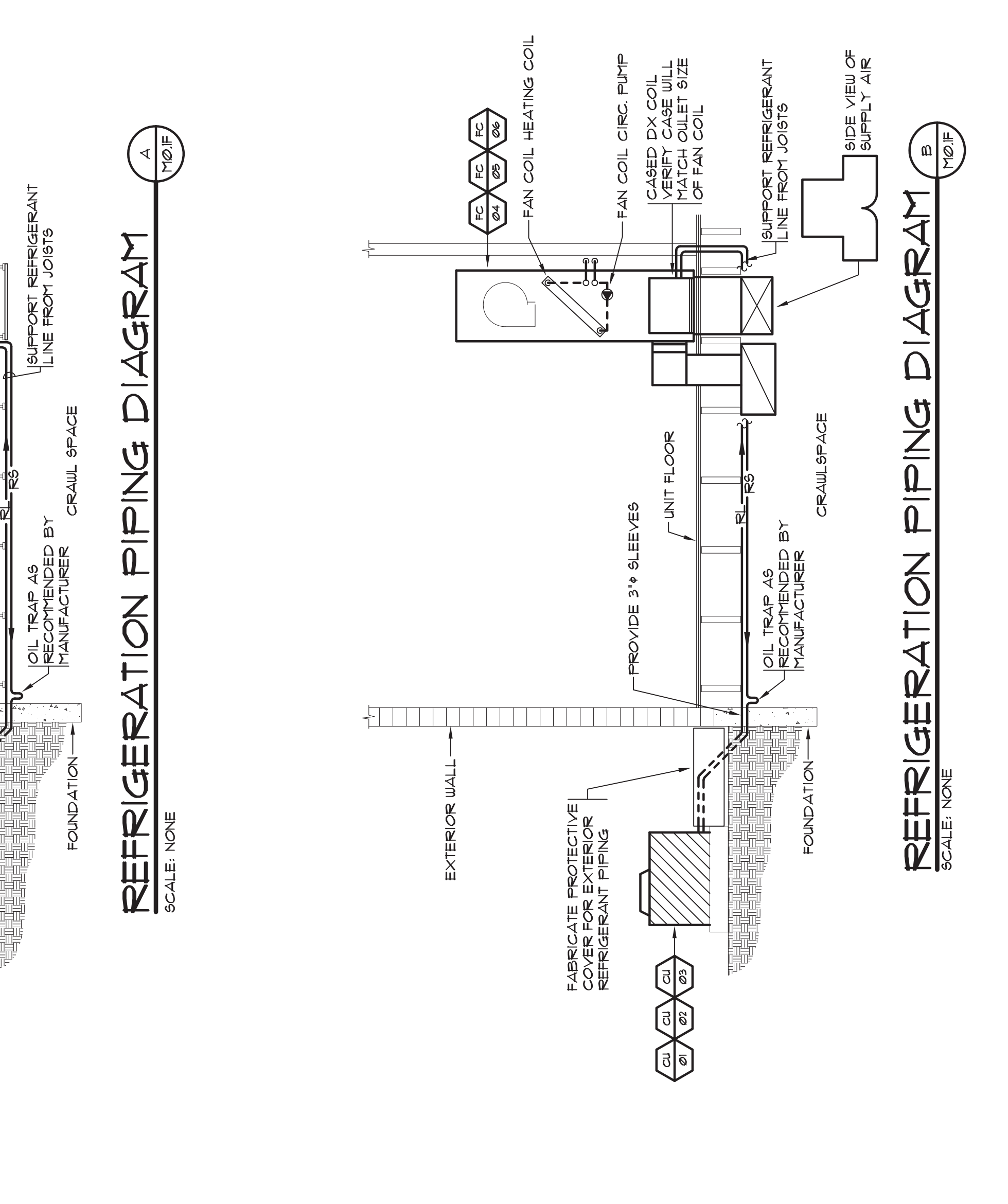
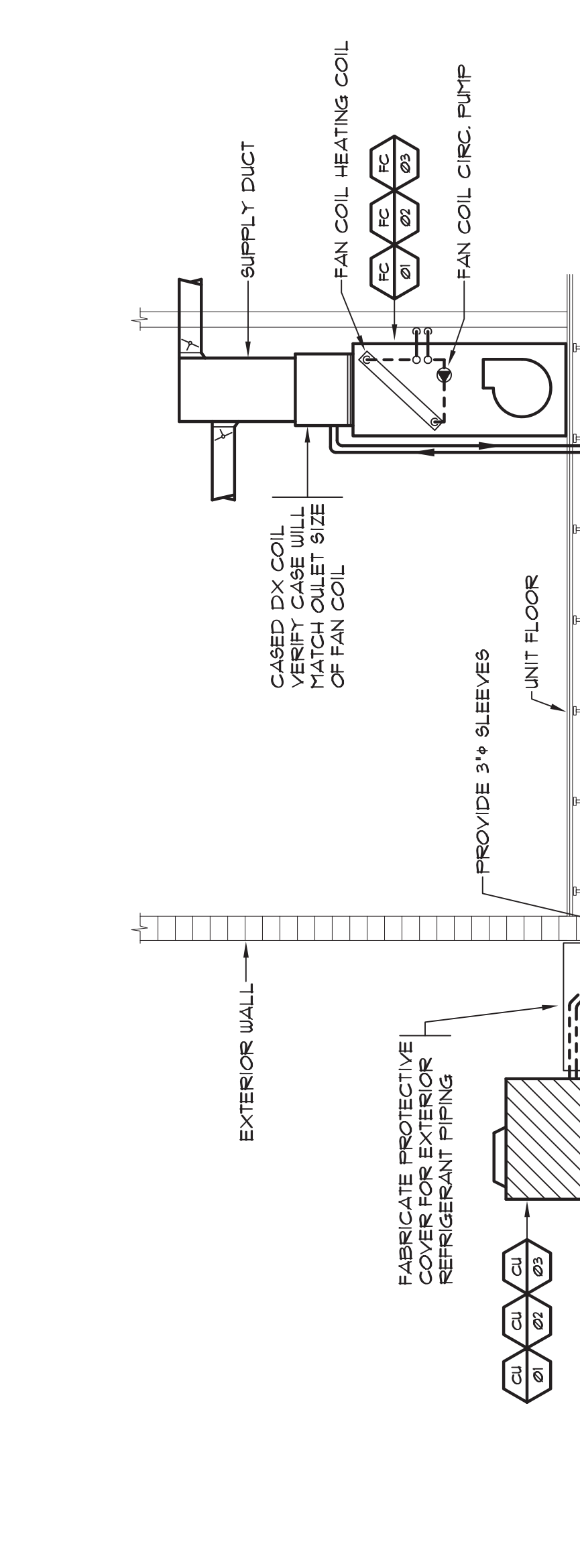
NOTES: 1) INCLUDE BACKDRAFT DAMPER. 2) 30" WIDTH. 3) 75 WATT LIGHT. 4) 2-SPEED. 5) OWNER TO CHOOSE COLOR.

TAG	MANUFACTURER	MODEL	TYPE	CFM	BORES	VOLTS/PH	MCA	NOTES
RH-01	BROAN	413000	TVA VENTED	190	60	120/1	2.9	1, 2, 3, 4, 5



LEGEND (NOT ALL ITEMS WILL BE USED)

SYMBOL	DESCRIPTION
HUB	HOT WATER SUPPLY AND RETURN PIPING
CHUB	CHILLED WATER SUPPLY AND RETURN PIPING
CHS, CHR	UNION FLANGE BLIND FLANGE
N	SOX GATE VALVE BALL VALVE GLOBE VALVE BUTTERFLY VALVE
W	CHECK VALVE STRAINER
G	LUBRICATED PLUS VALVE, BALANCING VALVE
X	PIPE ELBOW DOWN, PIPE TEE DOWN, PIPE TEE UP, PIPE ELBOW UP
Y	PIPE ANCHOR, PIPE GUIDE, PIPE SLEEVE
Z	FLEX CONNECTION, PIPE EXPANSION JOINT
AA	SQUARE DUCT ELBOW WITH TURNING VANES
BB	DOWN AND BACK UP UNDER BEAM OR OBSTACLE
CC	SUPPLY AIR RETURN/OUTSIDE AIR AND EXHAUST AIR
DD	DUCTWORK UNLINED AND DUCTWORK LINED
EE	FLEXIBLE AND RIGID ROUND DUCT
FF	DUCTWORK TO BE REMOVED
GG	FIRE SMOKE, COMBINATION FIRE AND SMOKE, RADIATION SMOKE AND RADIATION DAMPERS
HH	BAROMETRIC MOTORIZED AND MANUAL DAMPERS SMOKE DETECTOR
II	PRESSURE DIFFERENTIAL SWITCH
JJ	THERMOSTAT, HUMIDISTAT, TEMPERATURE TRANSMITTER, CARBON MONOXIDE OR CARBON DIOXIDE SENSOR
KK	WORK NOTE 1, REVISION NO. 1, DEPOLITON NOTE 1, POINT OF CONNECTION
LL	SUPPLY AIR, RETURN AIR, EXHAUST AIR, OUTSIDE AIR, FLOW ARROWS
MM	SUPPLY AIR, RETURN AIR, EXHAUST AIR, OUTSIDE AIR
NN	SECTION A ON SHEET M-1
OO	DIAGRAM 1 ON SHEET M-1
PP	RISER R-1 ON SHEET M-1
QQ	EQUIPMENT TAG
RR	EQUIPMENT TYPE
SS	EQUIPMENT NUMBER



FAN COIL SCHEDULE

NOTES: 1) UPFLOW CONFIGURATION. 2) DOWN FLOW CONFIGURATION. 3) DISPOSABLE FILTER. 4) 1/2" EC MOTOR ON BLOWER. 5) MICRO-PROCESSOR CIRCUIT BOARD. 6) FACTORY TESTED ASHRAE 90.1 COMPLIANT. 7) EXHAUST FAN COILS TO BE INSTALLED WITH 1" FIBERGLASS INSULATION UNAP. 8) HVAC CONTRACTOR TO PROVIDE SUFFICIENT PRESSURE FOR EACH COIL. 9) PROVIDE SUFFICIENT PRESSURE FOR EACH COIL. 10) PROVIDE SUFFICIENT PRESSURE FOR EACH COIL. 11) PROVIDE SUFFICIENT PRESSURE FOR EACH COIL. 12) REARRANGEMENT OF DX COIL REQUIRED.

TAG	MANUF.	MODEL	CFM	ESP INCH WC	HYDRONIC HEAT COIL MBH-OUT	BLOWER HP	CIRC. PUMP HP	INLET WATER TEMP	MCA	VOLTS/PH	MAX. RISE	WEIGHT (LBS)	NOTES
FC-01	AIR-MARK	GPH 18/15	650	0.3	3.05	3.5	1/2	1/40	14.0	4.1	18/15	100	13,4,5,6,7,8,9,10,11
FC-02	AIR-MARK	GPH 24/25	800	0.3	3.5	3.5	1/2	1/40	14.0	4.1	18/15	100	13,4,5,6,7,8,9,10,11
FC-03	AIR-MARK	GPH 30/31	1050	0.3	3.5	3.5	1/2	1/40	14.0	4.1	18/15	100	13,4,5,6,7,8,9,10,11
FC-04	AIR-MARK	GPH 18/15	650	0.3	3.05	3.5	1/2	1/40	14.0	4.1	18/15	100	2,3,4,5,6,7,8,9,10,11,12
FC-05	AIR-MARK	GPH 24/25	800	0.3	3.5	3.5	1/2	1/40	14.0	4.1	18/15	100	2,3,4,5,6,7,8,9,10,11,12
FC-06	AIR-MARK	GPH 30/31	1050	0.3	3.5	3.5	1/2	1/40	14.0	4.1	18/15	100	2,3,4,5,6,7,8,9,10,11,12

ELECTRIC HEATER SCHEDULE

NOTES: 1) INTEGRAL THERMOSTAT. 2) 80%HI-RECEIVED MOUNT. 3) DISCONNECT SWITCH. 4) MOUNT 12" AFF. 5) HEAVY DUTY GRILLE.

TAG	MANUFACTURER	MODEL	KW	BTU	VOLTS/PH	NOTES
EH-01	RATWALL	E3321D-RP	15	5100	120/1	1, 2, 3, 4

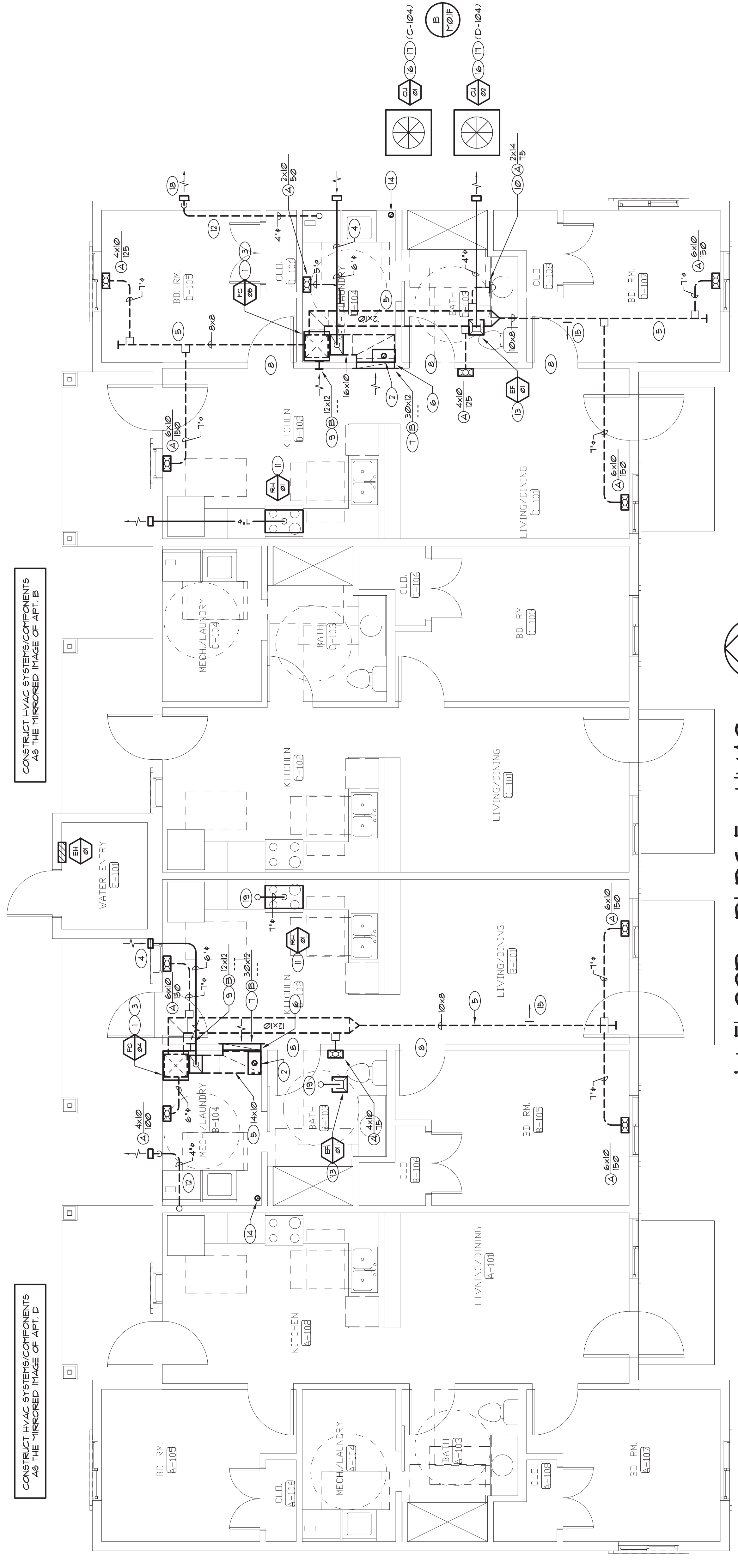
GRILLE, REGISTER, AND DIFFUSER SCHEDULE

NOTES: 1) STANDARD FACTORY BROUW FINISH. 2) VOLUME DAMPER. 3) SEE DRAWINGS FOR NECK SIZE AND AIR QUANTITY.

TAG	MANUF.	MODEL	DESCRIPTION	NOTES
A	HART & COOLEY	4120/41	SUPPLY DIFFUSER, 2-WAY DEFLECTION, STEEL CONSTRUCTION, FLOOR MOUNT	1, 2, 3
B	HART & COOLEY	650	RETURN GRILLE, 35° DEFLECTION, 1/2" SPACING, STEEL CONSTRUCTION, SIDEWALL MOUNT	1, 3

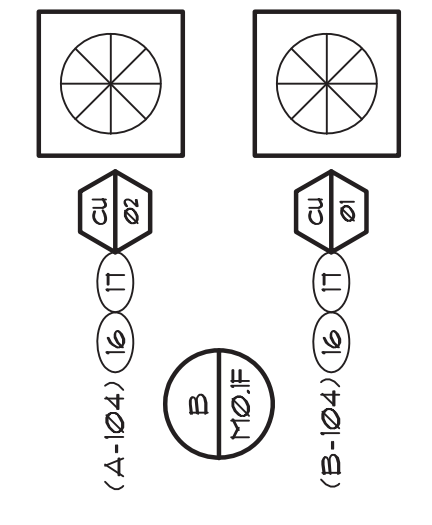
WORK NOTES (THIS SHEET ONLY)

1. FAN COIL UNIT TO BE SUPPLIED BY MECHANICAL (HVAC) CONTRACTOR. VERIFY ALL CONNECTIONS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. TANKLESS WATER HEATER TO BE VENTED THROUGH THE ROOF BY PLUMBING CONTRACTOR USING CONCENTRIC POLYPROPYLENE COCA AND BLUE THROUGH THE ROOF. VERIFY ALL CONNECTIONS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. FAN COIL UNIT HAS A HYDRONIC HEATING COIL. SEE MECHANICAL (HVAC) CONTRACTOR FOR CONNECTION REQUIREMENTS TO TANKLESS WATER HEATER.
4. 6" INSULATED OA DUCT RUNNING HIGH TO THE OUTSIDE WALL. TERMINATE WITH A WEATHER CAP. THIS MUST BE 6" FEET AWAY FROM ANY EXHAUST.
5. ALL SA AND RA DUCTWORK TO BE ROUTED IN THE CRAWL SPACE. URAP DUCT WITH 1/2" OF FIBERGLASS INSULATION WITH VAPOUR BARRIER.
6. FAN JOISTS FOR RA OPENINGS.
7. MOUNT RA GRILLE HIGH IN WALL.
8. UNDERCUT DOOR BY APPROXIMATELY 1".
9. 12x12 TRANSFER AIR DUCT FOR DRYER. LOCATE HIGH IN WALL.
10. MOUNT IN CABINET TOE-KICK.
11. INSTALL BRASSE WOOD WITH DUCT TERMINATING HIGH ON OUTSIDE WALL WITH WEATHER CAP.
12. RUN DRYER VENT IN CRAWL SPACE TURN UP IN OUTSIDE WALL. TERMINATE 18" ABOVE GRADE WITH A DRYER VENT CAP. KEEP APPROXIMATELY 18" DISTANCE FROM OA INTAKE.
13. INSTALL ALL COMPONENTS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. COORDINATE WITH MECHANICAL (HVAC) CONTRACTOR. LOCATE LOW BUT WILL INCREASE TO HIGH WITH SWITCH.
14. INSTALL 4" ROUND DUCT FROM THE CRAWL SPACE TO THE ROOF. TERMINATE WITH A ROOF CAP.
15. INSTALL 1/2" BRASS IN THE SA DUCT WITH A BALANCING DAMPER. THIS IS TO PROVIDE APPROXIMATELY 30 CFM OF SA FOR CRAWL SPACE VENTILATION. THIS MEETS THE 60% CRISP REQUIREMENT.
16. SET THE CONDENSING UNIT ON A 3" LEVEL EQUIPMENT PAD.
17. PROVIDE LINE SETS SIZED PER MANUFACTURER'S RECOMMENDATIONS. COVER BOTH LIQUID AND SUCTON LINES WITH CLOSED CELL INSULATION THEN URAP WITH THE FOUNDATION APPROXIMATELY 9" BELOW GRADE WITH 1/2" DIAMETER PIPES.
18. RUN 4" DRYER VENT DIRECTLY TO OUTSIDE WALL. TERMINATE 18" ABOVE GRADE WITH A DRYER VENT CAP.
19. RUN EA DUCT UP THROUGH ROOF. THEN TERMINATE WITH A ROOF CAP.

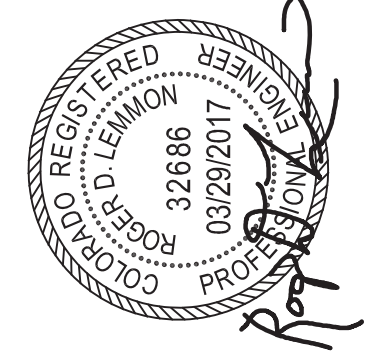


CONSTRUCT HVAC SYSTEMS/COMPONENTS AS THE MIRRORRED IMAGE OF APT. B

CONSTRUCT HVAC SYSTEMS/COMPONENTS AS THE MIRRORRED IMAGE OF APT. D



1st FLOOR - BLDG F - HVAC
 SCALE: 1/4" = 1'-0"



LEGEND (NOT ALL ITEMS WILL BE USED)

ASBKR	SYMBOL	DESCRIPTION
AW, CU, NP		SOFT, COLD AND NON-POTABLE WATER PIPING
F		FIRE PROTECTION PIPING
HU, HUC		HOT WATER AND HOT WATER CIRCULATING PIPING
G		PRESSURE GAS PIPING
V, FOV		VENT AND FUEL OIL VENT PIPING
SS, GSS		SANITARY SEWER AND GREASE SANITARY SEWER PIPING
SD, OSD		STORM DRAIN AND OVERFLOW STORM DRAIN PIPING
RD, ORD		ROOF DRAIN LEADER OVERFLOW DRAIN LEADER
FCO, UCO, COFG		FLOOR CLEANOUT, WALL CLEANOUT AND CLEANOUT TO GRADE PIPING TO BE REMOVED
		UNION FLANGE BLIND FLANGE
		SOFT GATE VALVE BALL VALVE GLOBE VALVE BUTTERFLY VALVE
		CHECK VALVE STRAINER
		PLUG VALVE CALIBRATED AND DYNAMIC BALANCING VALVES
		LUBRICATED PLUG VALVE
FRV		PRESSURE REDUCING VALVE
		THREE WAY CONTROL VALVE SOLENOID AND TWO-WAY / MOTORIZED CONTROL VALVE
RPBP		REDUCED PRESSURE BACKFLOW PREVENTER
		ANGLE RELIEF VALVE GAUGE AND COOK THERMOMETER
		TEST PLUG
AAV / MAX, HEV		HOSE END DRAIN VALVE, AUTOMATIC AIR / MANUAL AIR VENT
HE, WH		HOSE BIBB, FROSTPROOF WALL HYDRANT, DOWN SPOUT NOZZLE
		PIPE ELBOW DOWN, PIPE TEE DOWN, PIPE TEE UP, PIPE ELBOW UP
		PIPE ANCHOR, PIPE GUIDE, PIPE SLEEVE
VTR		FLEX CONNECTION, PIPE EXPANSION JOINT
		VENT THRU ROOF
IE, RN		INVERT ELEVATION
		EXISTING, RELOCATED AND NEW WORK NOTE, REVISION NO. 1, DEMOLITION NOTE 1, POINT OF CONNECTION
		SECTION A ON SHEET H-1 DIAGRAM ON SHEET H-1 RISER R-1 ON SHEET H-1
		FIXTURE OR EQUIPMENT TAG

DRAWING INDEX

REVISIONS	DATE	BY	CHKD	APP'D
● ISSUED FOR CONSTRUCTION				
○ ISSUED FOR REFERENCE ONLY, NOT FOR CONSTRUCTION				

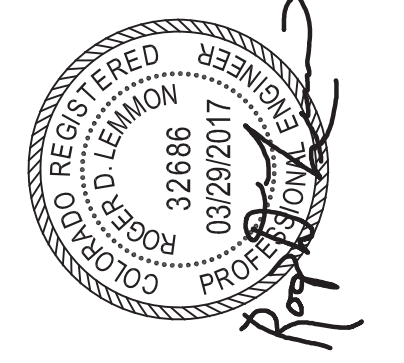
NUMBERS	DRAWING TITLE
RF01F	DRAWING INDEX, GENERAL NOTES AND LEGENDS
RF02F	SCHEDULES AND DIAGRAMS
RF1F	CRAWL SPACE AND FIRST FLOOR - PLUMBING

GENERAL NOTES - PLUMBING

- COORDINATE THE INSTALLATION OF PLUMBING SYSTEMS WITH OTHER TRADES. OFFSET PIPING AS NECESSARY TO AVOID CONFLICTS WITH OTHER WORK AND STRUCTURAL ABOVE CEILING AND/OR BELOW FLOOR.
- VERIFY EXACT LOCATION, SIZE AND INVERT ELEVATION OF ALL EXISTING UTILITIES AT SITE PRIOR TO INSTALLATION OF ANY PIPING SYSTEMS.
- RESOLVE ALL QUESTIONS OR CONFLICTS WITH THE ENGINEER BEFORE ANY EQUIPMENT IS ORDERED, MATERIALS FABRICATED OR SYSTEMS INSTALLED. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION OF THE PLUMBING FIXTURES.
- SEAL ROOF PENETRATIONS WATER-TIGHT WITH ROOF SYSTEM COMPATIBLE WITH ROOFING.
- ALL PIPING PENETRATIONS THROUGH FLOORS SHALL BE SEALED WATER TIGHT BY CASING BEHIND THE GAB BETWEEN PIPE AND FLOOR STRUCTURE, OR BY USING APPROVED FL SLEEVE AND SEALER SYSTEM. PENETRATIONS OF RATED WALLS SHALL USE SLEEVES WITH UL APPROVED FIRE SEALANT.
- CORROSION RESISTANT PIPING LOCATED IN CRAWL SPACE OF BUILDINGS SHALL BE TYPE "L" HARD COPPER WITH WROUGHT COPPER FITTINGS. NO LEAD SOLDER OR TYPRESS TO BE USED FOR FITTINGS THROUGHOUT.
- PIPING WITH UNIT CONNECTING FIXTURES FROM POINT IN MECHANICAL CLOSETS INDICATED ON PLANS SHALL BE CROSS LINKED FLEX PIPING WITH SPECIFIC MANUFACTURER FITTINGS.
- INSULATE ALL DOMESTIC WATER PIPING PER INSULATION SCHEDULES SHOWN IN PROJECT SPECIFICATIONS.
- WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC DWV WITH SOLVENT CEMENTED FITTINGS. SLOPE ALL WASTE PIPING AT 1/4" PER FOOT MINIMUM UNLESS OTHERWISE NOTED. PVC PIPING SHALL NOT BE USED IN RETURN AIR PLenums.
- MAINTAIN THE UNIFORM SLOPE SHOWN ON THE PLANS FOR THE SANITARY SEWER, STORM DRAIN AND CONDENSATE DRAIN PIPING SYSTEMS.
- SUPPORT ALL CAST IRON SOIL PIPE, PVC PIPING, COPPER PIPE AND STEEL PIPE RISERS AT EVERY STORY MINIMUM.
- ALL SANITARY VENTS SHALL BE LOCATED MINIMUM 10'-0" FROM BUILDING OUTSIDE AIR INTAKES.
- INSTALLATION SHALL CONFORM TO 2008 INTERNATIONAL PLUMBING CODE, APPLICABLE SECTIONS OF THE INTERNATIONAL BUILDING CODE AND APPLICABLE SECTIONS OF THE PUEBLO BUILDING CODE.

FIRE PROTECTION NOTES

- PROVIDE A NEW HYDRANT/CALCULATED FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH THE LATEST EDITIONS OF IBC, IFC, AND NFPA 1013. COVERAGE WILL INCLUDE LIVING SPACES, MECHANICAL SPACES AND ATTIC SPACES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE SYSTEM AND SHALL FURNISH TO THE ARCHITECT ALL DESIGN CALCULATIONS, SHOP DRAWINGS OF THE SYSTEM, AND CATALOG DATA OF ALL EQUIPMENT AS PART OF REQUIRED SUBMITTAL DATA IN SPECIFICATIONS. REFER TO SHEETS P3 AND P4.
- SHOP DRAWINGS SHALL INDICATE THE LOCATION OF ALL SPRINKLER HEAD AND PIPING COORDINATED WITH THE LOCATION OF ALL STRUCTURAL MEMBERS, HVAC EQUIPMENT, LIGHT FIXTURES, CEILING DIFFUSERS, REGISTERS AND PIPING.
- THE LAYOUT SUPERVISION AND INSTALLATION OF FIRE PROTECTION SYSTEMS IS A TRADE IN ITSELF AND SHALL BE PERFORMED ONLY BY FULLY SKILLED, EXPERIENCED AND RESPONSIBLE PARTIES. THE PROSPECTIVE FIRE PROTECTION CONTRACTOR MAY BE REQUIRED TO SHOW TO THE SATISFACTION OF THE ARCHITECT SUCH SKILL, EXPERIENCE, AND RESPONSIBILITY.
- PERFORM WORK IN STRICT COMPLIANCE WITH THESE SPECIFICATIONS AND DRAWINGS. THE REQUIREMENTS OF THE STATE CERTIFIED SUPERVISION INSPECTOR AND ALL APPLICABLE CODES, ORDINANCES, STANDARDS, AND STATUTES IN EFFECT AT THE BUILDING SITE.
- ADHERE TO THE MOST RECENT EDITION OF THE FOLLOWING PUBLICATIONS, TOGETHER WITH THE LATEST REVISIONS, SUPPLEMENTS, AND AMENDMENTS THERETO:
 - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS IS
 - UNDERWRITERS LABORATORIES (UL) FIRE PROTECTION EQUIPMENT LIST.
 - CITY OF PUEBLO FIRE AUTHORITY.
- OBTAIN AND PAY FOR ALL NECESSARY PERMITS PRIOR TO STARTING WORK. OBTAIN CERTIFICATES, APPROVALS, AND/OR ACCEPTANCES OF ALL INTERESTED PARTIES AND AUTHORITIES HAVING JURISDICTION.
- PIPING TO BE IRON, STEEL OR CPVC IN WEIGHTS AND GAUGES APPROVED BY NFPA IS FOR USE IN FIRE PROTECTION SYSTEMS. FITTINGS SHALL BE APPROVED FOR USE WITH THE INSTALLED SPRINKLER PIPING WITH A MINIMUM WORKING PRESSURE OF 175 PSI.
- NOTIFY OWNER, ARCHITECT AND ALL AUTHORITIES HAVING JURISDICTION NOT LESS THAN SEVENTY-TWO (72) HOURS PRIOR TO FINAL TESTING. DO NOT PERMIT INTERIOR PIPING TO BE CONCEALED IN ANY WAY UNTIL ALL HYDROSTATIC AND OTHER TESTS AND INSPECTIONS HAVE BEEN SATISFACTORILY COMPLETED. CONDUCT ALL TESTS IN ACCORDANCE WITH NFPA STANDARDS AND ALL APPLICABLE CODES AND ORDINANCES. PROVIDE ALL NECESSARY PERSONNEL, CORRECT ALL DEFECTS, DEFICIENCIES, REPAIR ALL LEAKS AND RETEST AS REQUIRED.



PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE DESCRIPTION
WC-1	WATER CLOSET, ADA, HANSFIELD, 148-123, PRESSURE ASSISTED FLUSH TANK, SIFON, JET ACTION, 16 GPF WHITE VITREOUS CHINA, ELONGATED BOIL, PROVIDE BEHIS 1020TC OPEN FRONT BEAT / COVER AND SUPPLY WITH ANGLE STOP, 2" 85, 2" 1/2, 1/2, CU. REFER TO PLANS FOR RIGHT HAND/LEFT HAND CONFIGURATION, NOTE 3.
WC-2	WATER CLOSET, HANSFIELD, 141-103, PRESSURE ASSISTED FLUSH TANK, SIFON, JET ACTION, 16 GPF WHITE VITREOUS CHINA, ELONGATED BOIL, PROVIDE BEHIS 1020TC OPEN FRONT BEAT / COVER AND SUPPLY WITH ANGLE STOP, 2" 85, 2" 1/2, 1/2, CU. REFER TO PLANS FOR RIGHT HAND/LEFT HAND CONFIGURATION, NOTE 3.
LV-1	COUNTER TOP OVAL LAVATORY - HANSFIELD, 251-4, ROUND WHITE VITREOUS CHINA, 4" FAUCET CENTERS, PROVIDE MOEN SINGLE LEVER FAUCET, MODEL HL-4601-HDL-LEV-1-HU-CP, "CHATEAU", 4" CENTERS, PROFLOU FR86A-CP WITH W/UL-CP-1/4", GRID DRAIN, PROFLOU FR86TICOH-CP, 2" 85, 1/2, 1/2, CU. PROVIDE 1/2" INSULATION FOR P-TRAP AND WATER SUPPLIES, 2" 85, 1/2, 1/2, 1/2, HU, 1/2, CU. NOTES 2, 3.
LV-2	COUNTER TOP OVAL LAVATORY - HANSFIELD, 251-4, ROUND WHITE VITREOUS CHINA, 4" FAUCET CENTERS, PROVIDE MOEN SINGLE LEVER FAUCET, MODEL HL-4601-HDL-LEV-1-HU-CP, "CHATEAU", 4" CENTERS, PROFLOU FR86A-CP WITH W/UL-CP-1/4", GRID DRAIN, PROFLOU FR86TICOH-CP, 2" 85, 1/2, 1/2, CU. NOTES 2, 3.
SH-1	SHOWER UNIT ADA WITH BEAT-ACCESSIBILITY PROFESSIONALS MODEL APT6402TBEP, SINGLE PIECE SHOWER MODULE, PROVIDE 2" SHOULDER DIVERTER AND SHOWER HEAD, HAND HELD SHOWER, 6.5" HOSE, 30" SLIDE BAR, VACUUM BREAKER, TUB FILLER, 2" TRIP LEVER GRID, DRAIN, THERMOSTATICALLY CONTROLLED MIXING VALVE WITH INTEGRAL SERVICE STOPS, HAND HELD SHOWER BRAY, 24" SLIDE GUIDE, 6.5" STAINLESS STEEL HOSE WITH SUITABLE FITTING, AND INLINE VACUUM BREAKER FOLDING BEAT, 60MP DISH SHOWER ROD WHITE CURTAIN, OPTIONAL HANDLES, 1/2" HUB, 1/2" HUB, AND BATH-TEMPERATURE THERMOSTAT ADAPTER, 2" 85, 2" 1/2, 1/2, HU, 1/2, CU. REFER TO PLANS FOR RIGHT HAND/LEFT HAND CONFIGURATION.
SK-1	COUNTER TOP ADA DOUBLE COMPARTMENT KITCHEN SINK, STERLINGS, MIDDLETON, 14833.3, 30 GAUGE STAINLESS STEEL, PROVIDE MOEN M9-12028 WITH SIDE SPRAYER, BASKET STRAINER, 1/2" P-TRAP AND 3/4" SUPPLIES WITH ANGLE STOPS, PROFLOU TRAP COVERS, 2" 85, 1/2, 1/2, 1/2, CU.
SK-2	SAFETY AS BK-1.
TS-1	TUB/SHOWER KIT, STERLING MODEL V-60-HQ, WHITE VIKRELL, 4" PIECE DESIGN, PROVIDE MOEN 8343 PRESSURE BALANCED SHOWER VALVE, TUB DIVERTER AND SHOWER HEAD, HAND HELD SHOWER, 6.5" HOSE, 30" SLIDE BAR, VACUUM BREAKER, TUB FILLER, 2" TRIP LEVER GRID, DRAIN/OVER FLOW, 2" 85, 2" 1/2, 1/2, CU, 1/2, HU, REFER TO PLANS FOR RIGHT HAND/LEFT HAND CONFIGURATION, ADA INSTALLATION, NOTE 3.
TS-2	TUB/SHOWER KIT, STERLING MODEL V-60-HQ, WHITE VIKRELL, 4" PIECE DESIGN, PROVIDE MOEN 8335 PRESSURE BALANCED SHOWER VALVE, TUB DIVERTER AND SHOWER HEAD, 2" TRIP LEVER GRID DRAIN/OVER FLOW, 2" 85, 2" 1/2, 1/2, CU, 1/2, HU, REFER TO PLANS FOR RIGHT HAND/LEFT HAND CONFIGURATION, NOTE 3.

PLUMBING FIXTURE SCHEDULE

TAG	EQUIPMENT DESCRIPTION
FCO	FLOOR CLEAN OUT, 8" WITH FIGURE 4201 STANDARD FLOOR CLEANOUT WITH SCORIALIZED ROUND NICKEL, BRONZE TOP.
UCO	WALL CLEAN OUT, 8" WITH FIGURE 4132 WITH CLEANOUT TEE, BRONZE THREADED PLUG, STAINLESS STEEL WALL COVER AND CENTER SCREW.
CO	PLUG CLEAN OUT, END OF LINE OR TURN WITH CLEANOUT ADAPTER AND CLEANOUT PLUG WITH RAISED NUT.
DW-1	DISHWASHER, ADA ACCESSIBLE, GE BUILT-IN DISHWASHER MODEL NUMBER GDT990JWW, 24", WHITE, COLOR ENERGY STAR COMPLIANT, PROVIDE WITH DRAIN HOSE AND ELECTRICAL CONNECTION, WATER SUPPLY BY CONTRACTOR (ALTERNATE SUBSTITUTES TO BE APPROVED BY OWNER).
DW-2	DISHWASHER, GE BUILT-IN DISHWASHER MODEL NUMBER GDT990JWW, 24", WHITE, COLOR ENERGY STAR COMPLIANT, PROVIDE WITH DRAIN HOSE AND ELECTRICAL CONNECTION, WATER SUPPLY BY CONTRACTOR (ALTERNATE SUBSTITUTES TO BE APPROVED BY OWNER).
FD-1	EQUIPMENT ROOM DRAIN, 8" WITH FIGURE 27109 WITH SEDIMENT BUCKET, SQUARE NICKEL, BRONZE 1/2 GRATE TOP, PROVIDE WITH TRAP BEAL.
FS-1	FLOOR SINK, 8" WITH FIGURE 3180 CAST IRON FLANGED RECEPTOR WITH ACID RESISTANT INTERIOR WITH SEDIMENT BUCKET, 1/2 NICKEL, BRONZE GRATE, 1 1/2" TOP WITH DEEP SEAL TRAP (WATER ENTRY ROOMS), PROVIDE WITH TRAP BEAL.
FUH-1	WALL INTAKE, WOODFORD MODEL 67, FREEZELESS WALL HYDRANT, AUTOMATIC DRAINING WITH VACUUM BREAKER, 1/2 HOSE THREAD NOZZLE AND LOOSE TEE KEY.
FUH-2	WALL INTAKE, UMAN SPRINKLER SUPPLY VALVE, WOODFORD MODEL 32, FREEZELESS WALL HYDRANT, AUTOMATIC DRAINING WITH VACUUM BREAKER, 1 HOSE THREAD NOZZLE AND LOOSE TEE KEY.
PET-1	NOTABLE EXPANSION TANK, AIRTRUL THERMO-TROL 97-12, 4.5 GALLON, ACCEPTANCE FACTOR 4.4 GALLON TOTAL VOLUME, 50 PSIG MIN. AND 150 PSIG MAX. OPERATING PRESSURE, TDA, APPROVED, OPERATING WEIGHT 10.9 LBS., 1/2 CU.
SA-1	SHOCK ABSORBER, 8" WITH FIGURE 5009, PROVIDE WITH ISOLATION VALVE.
WB-1	WALL BOX FOR WASHING MACHINE WATER/DRAIN CONNECTIONS, CAYTEY MODEL 38939 WITH WATTS 92 SINGLE LEVER SUPPLY VALVES, 2".
GD-1	FOOD WASTE DISPOSER, IN-SINK-ERATOR BADGER 5, CONTINUOUS FEED, GALVANIZED STEEL, 1/2 HP, 1/8 V.
WDP-1	WASHER SAFETY DRAIN PAN, CAYCO MODEL 10793, 30"x32", WHITE PLASTIC PAN 25" DEEP WITH 1" BOTTOM DRAIN CONNECTION, DRAIN CONNECTION IS FIELD CUT/INSTALLED.

TANKLESS WATER HEATER SCHEDULE

TAG	SERIES	MANUF.	MODEL	MIN/MAX INPUT MBH	EFFICIENCY	OUTLET TEMP °F	GPM @ 10°F RISE	ELECTRICAL VOLTS/Φ	MCA	WEIGHT LBS	NOTES
UH-1	1 BR UNIT	RINNAI	RUC801	152 / 152	96%	120	42	120/1	8	62	1, 2, 3, 4
UH-2	2 BR UNIT	RINNAI	RUC801	152 / 150	96%	120	50	120/1	8	62	1, 2, 3, 4
UH-3	3 BR UNIT	RINNAI	RUC981	152 / 193	95%	120	55	120/1	8	62	1, 2, 3, 4

FIRE PROTECTION EQUIPMENT SCHEDULE

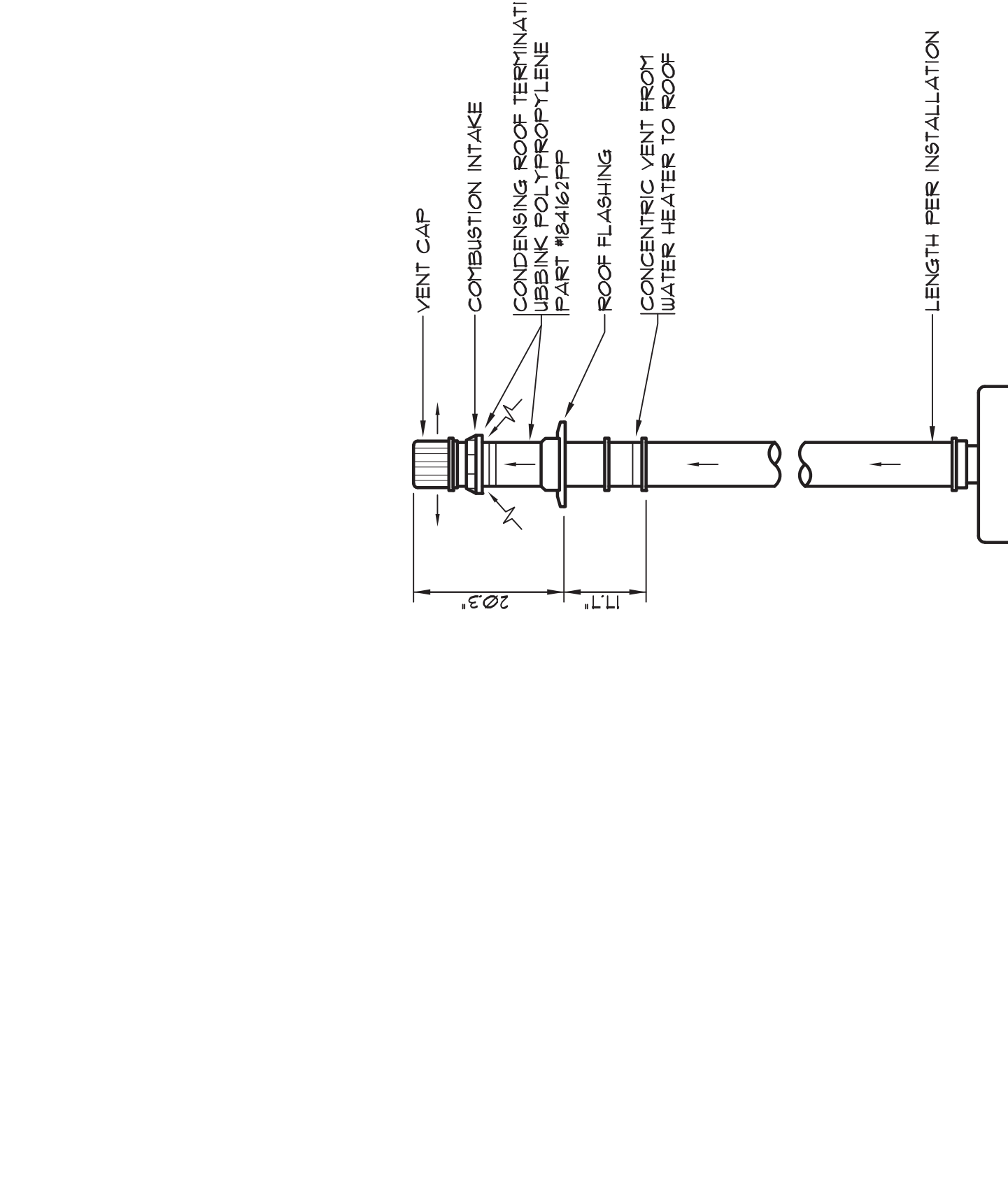
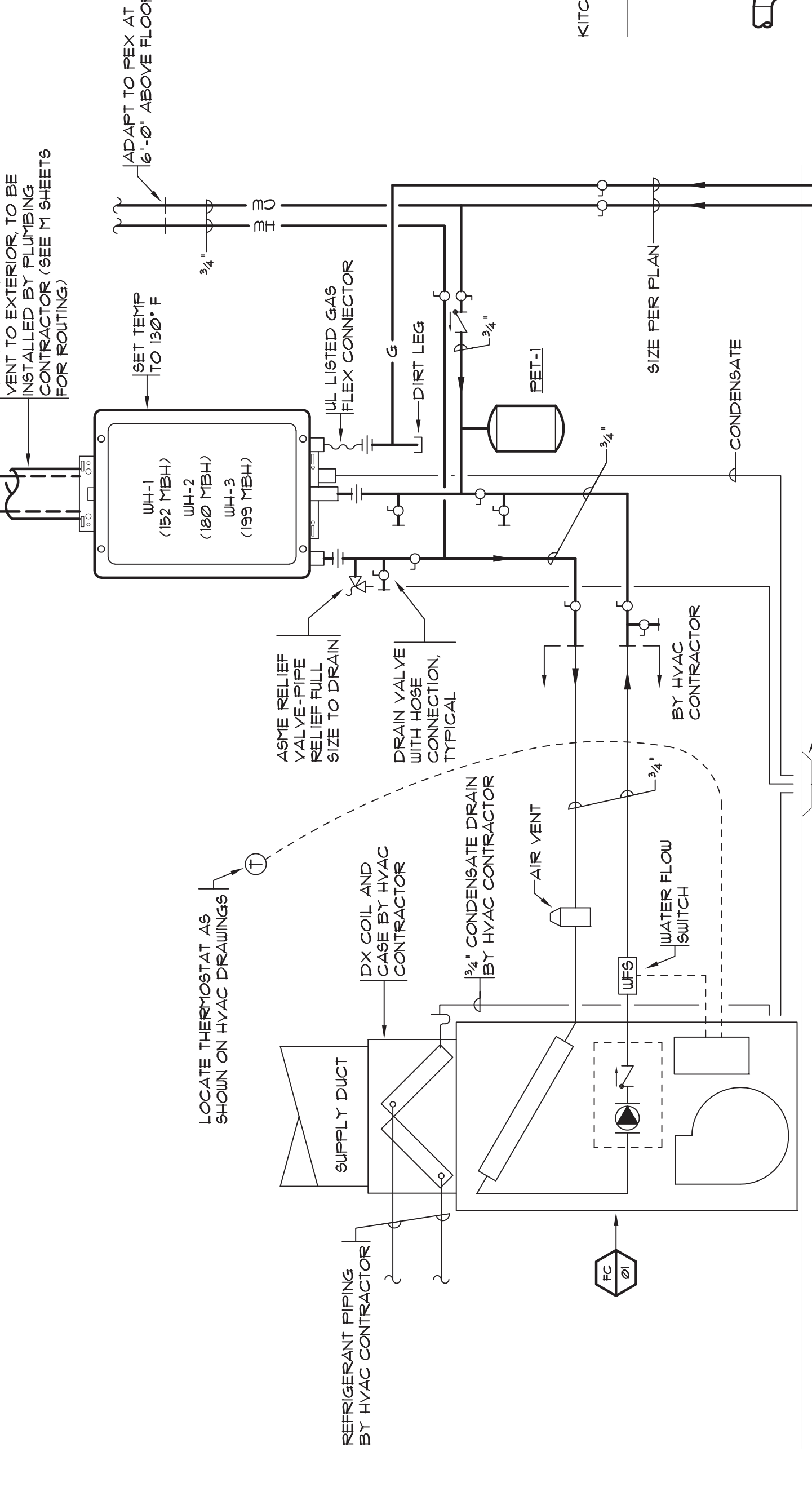
TAG	FIXTURE DESCRIPTION
FDC-1	FIRE DEPT. CONNECTION, CROCKER 24" X 2 1/2", CAST BRASS 2-WAY INLET BODY WITH DOUBLE CLAMPERS AND PIN LUG SUIVELS, PLUGS AUTO SPRINKLER BRANING, THREADED TO MATCH PUEBLO FIRE DEPT. REQUIREMENTS.
DCV-1	DOUBLE CHECK VALVE ASSEMBLY, FERCO MODEL 890 2", BRONZE BODY, UL LISTED, COMPLETE WITH BALL VALVES AND CHECK VALVE ASSEMBLY WITH FOUR YANAL RESISTANT FULL PORT VALVE TESTCOCKS, FACTORY TESTED ASSEMBLED AND TESTED.

TANKLESS WATER HEATER SCHEDULE

TAG	SERIES	MANUF.	MODEL	MIN/MAX INPUT MBH	EFFICIENCY	OUTLET TEMP °F	GPM @ 10°F RISE	ELECTRICAL VOLTS/Φ	MCA	WEIGHT LBS	NOTES
UH-1	1 BR UNIT	RINNAI	RUC801	152 / 152	96%	120	42	120/1	8	62	1, 2, 3, 4
UH-2	2 BR UNIT	RINNAI	RUC801	152 / 150	96%	120	50	120/1	8	62	1, 2, 3, 4
UH-3	3 BR UNIT	RINNAI	RUC981	152 / 193	95%	120	55	120/1	8	62	1, 2, 3, 4

TANKLESS WATER HEATER SCHEDULE

TAG	SERIES	MANUF.	MODEL	MIN/MAX INPUT MBH	EFFICIENCY	OUTLET TEMP °F	GPM @ 10°F RISE	ELECTRICAL VOLTS/Φ	MCA	WEIGHT LBS	NOTES
UH-1	1 BR UNIT	RINNAI	RUC801	152 / 152	96%	120	42	120/1	8	62	1, 2, 3, 4
UH-2	2 BR UNIT	RINNAI	RUC801	152 / 150	96%	120	50	120/1	8	62	1, 2, 3, 4
UH-3	3 BR UNIT	RINNAI	RUC981	152 / 193	95%	120	55	120/1	8	62	1, 2, 3, 4

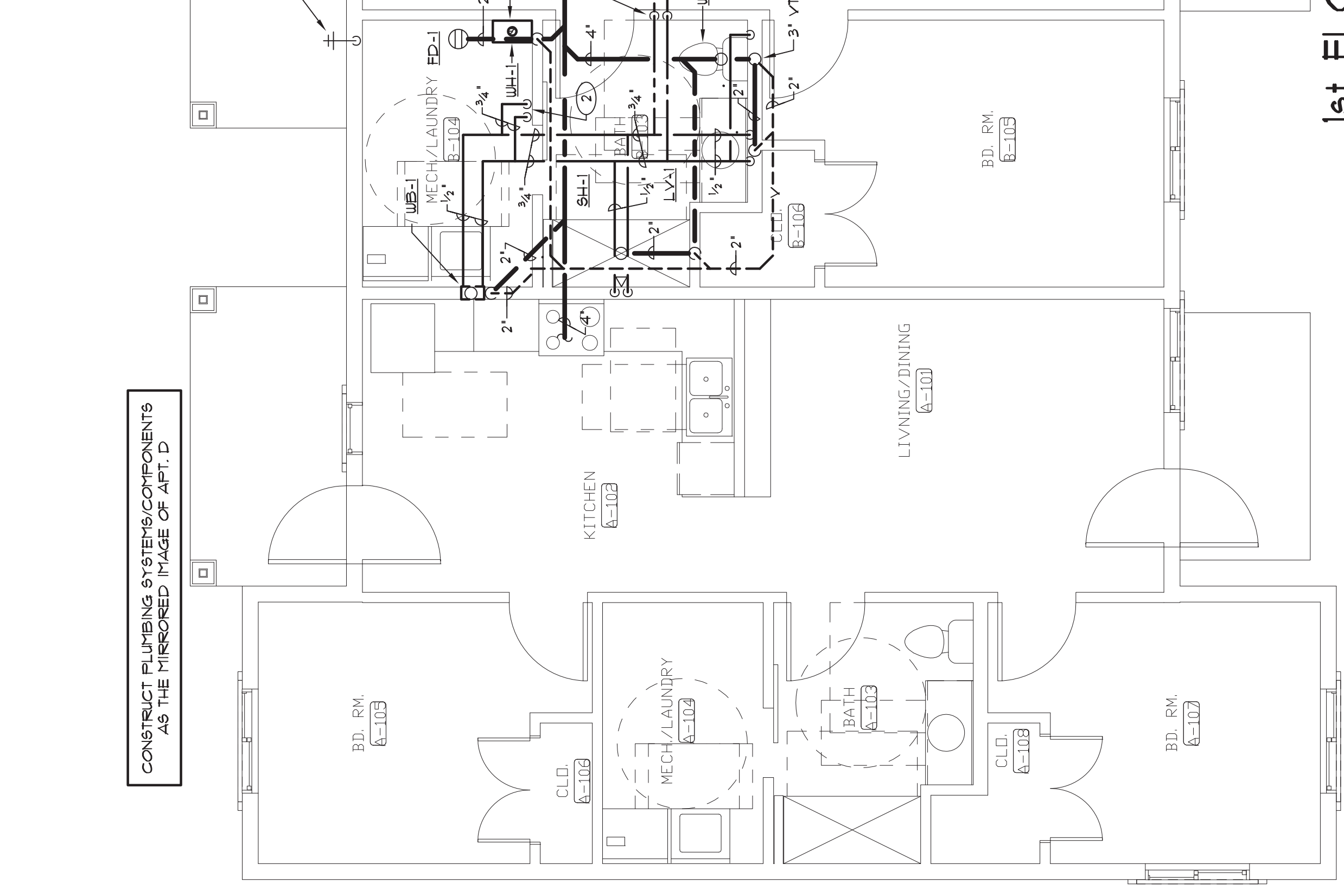


- WORK NOTES (1st FLOOR PLAN ONLY)**
1. SANITARY: REFER TO CRAWL SPACE PLUMBING SHEETS AND CIVIL FOR ACTUAL BUILDING MAIN DIRECTION OF FLOW.
 2. 3/4" CUMULANT SUPPLIES: ROUTE IN COPPER, THEN TRANSITION TO PEX IN CEILING AND TO FIXTURES. PROVIDE WITH EASY ACCESS ISOLATION VALVES.
 3. 1/2" CUMULANT DOWN WALL TO CRAWL SPACE.
 4. 1/2" CUMULANT ROUTED IN CRAWL SPACE TO KITCHEN SINK.
 5. ROUTE PIPING IN CRAWL SPACE.
 6. WATER HEATER TO VENT TO BE PIPED VERTICALLY THROUGH ROOF AND TERMINATED PER MANUFACTURER'S REQUIREMENTS. REFER TO VENTING DIAGRAMS ON SHEET P08-01.

- WORK NOTES (CRAWL SPACE ONLY)**
1. REFER TO CIVIL PLANS TO COORDINATE THE ACTUAL BUILDING MAIN DIRECTION OF FLOW. SANITARY FLOW DIRECTION MAY NOT BE SAME FOR EACH OF THIS BUILDING TYPE.
 2. REFER TO CIVIL FOR CONTINUATION.
 3. RISES CARRYING WATER ENTERS WATER ENTRY ROOM FROM BELOW GARAGE.
 4. DOMESTIC WATER SERVICE DOWN AND INTO CRAWL SPACE. DOMESTIC WATER PIPING IN CRAWL SPACE TO BE TYPE "L" COPPER.
 5. WATERS AND FIRE RISERS LOCATED IN WATER ENTRY ROOM. SEE RISER DIAGRAMS ON SHEET P02-01.
 6. INDIVIDUAL GAS METERS FOR EACH UNIT. SERVICE TO METERS BY UTILITY CONTRACTOR.
 7. GAS AND WATER PIPING IN CRAWL SPACE. COORDINATE WITH HVAC DUCTWORK.
 8. GAS AND WATER TO RISER UP INTO UNIT MECHANICAL ROOM. PROVIDE WATER ISOLATION VALVES AND FIRE BACK TO CRAWL SPACE FOR WALL HYDRANT.
 9. 1/2" UP TO FUH-1.

CONSTRUCT PLUMBING SYSTEMS COMPONENTS AS THE MIRRORED IMAGE OF PART B

CONSTRUCT PLUMBING SYSTEMS COMPONENTS AS THE MIRRORED IMAGE OF PART D



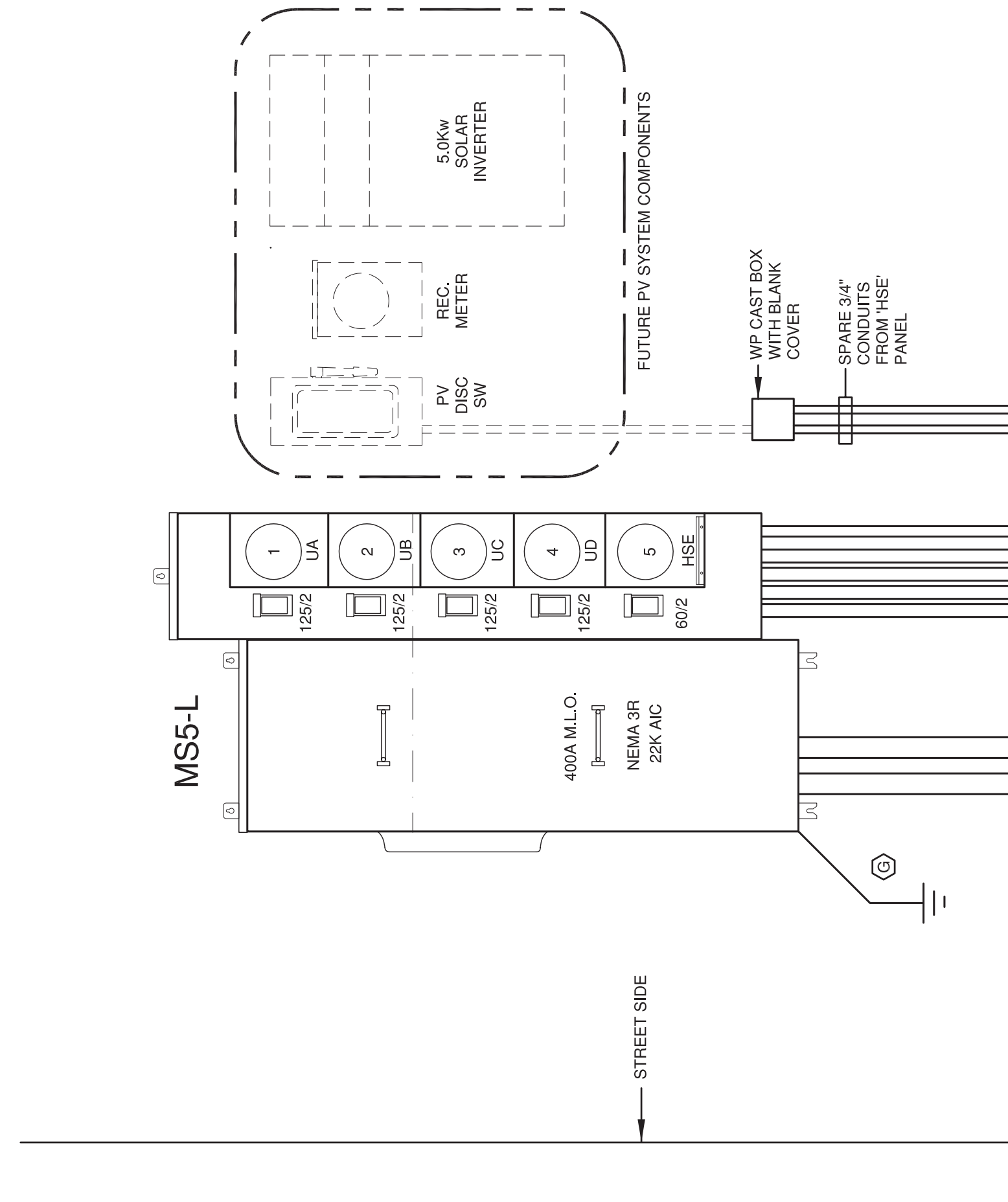
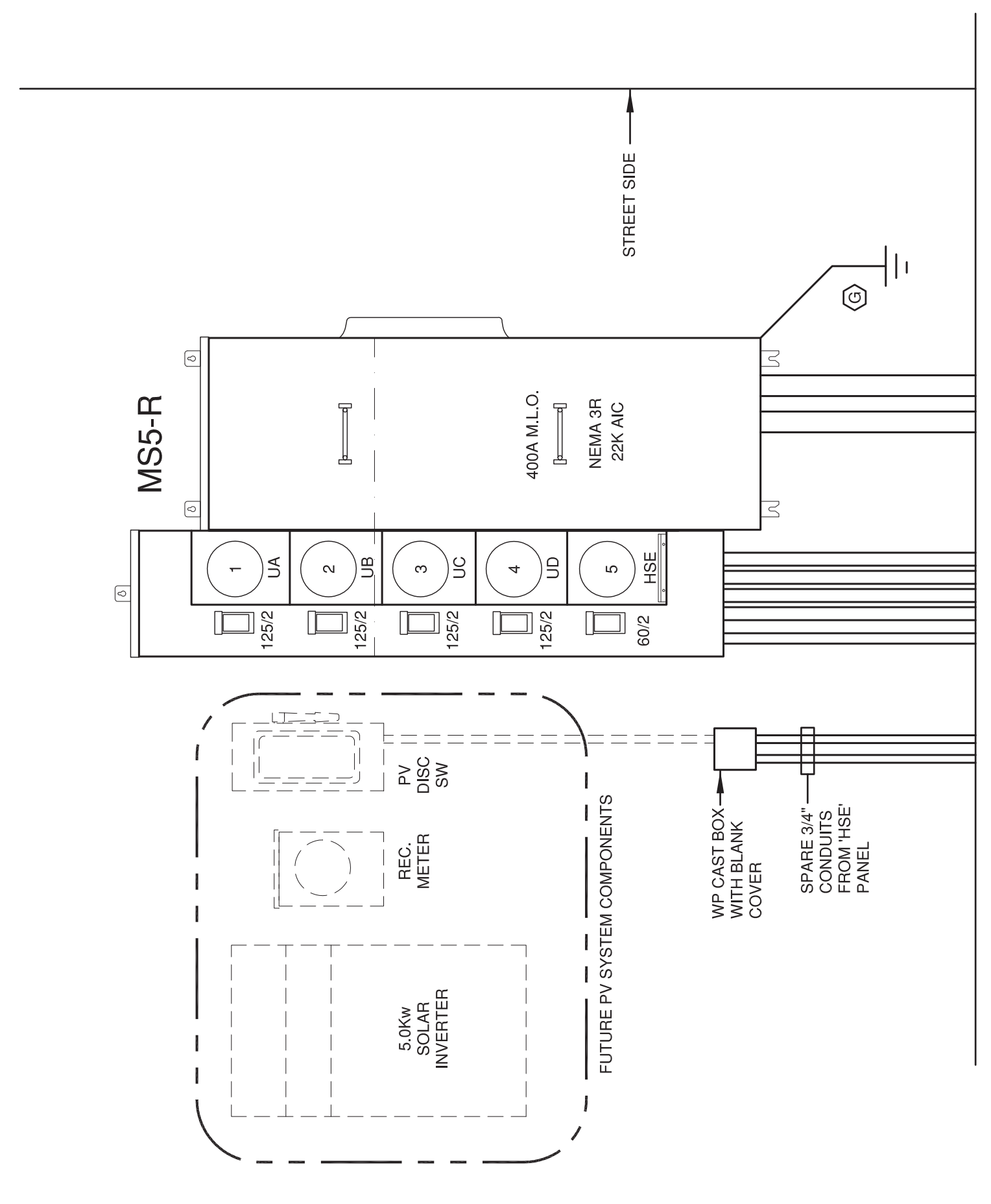
Meterstacks MS5 Style

SOUNDING ELECTRODE SYSTEM
 PROVIDE A 100A GROUNDING
 ELECTRODE USER GROUND AND
 CONNECTION TO COLD WATER
 ENTRY.

FEEDER SCHEDULE:
 SERVICE LATERAL METERS TO XFMR
 2 SETS PARALLEL (3P450-4 2 1/2")
 TYPICAL UNIT PANEL
 3#1/0 Al-H99, 1 1/2".
 TYPICAL HOUSE PANEL
 3#60-H99, 1".

GENERAL NOTE:
 LABEL BREAKERS AS SERVICE
 DISCONNECTS 1, 2, 3, 4, 5

SCHEDULE FOR PANEL HSE				
VOLTS/PHASE/WIRE	120/240/1PH-3W			
MOUNTING	MS5			
MAIN DEVICE	400A M.L.O.			
S.C. RATING	10000 AIC			
NOTES: * Indicates Circuit may be used for Site Lighting Re: ES13 for Building's Used. Max. 350V				
PHASE A (kVA)	2.9			
PHASE B (kVA)	0.9			
PHASE C (kVA)	3.79			
Daily/Demand Load is Calculated Per NEC - 1.4k, 2.0k, 1.5k, 1.0k, 0.5k, 0.1k + 50% and 0.1k				
CONNECTED KVA 3.28				
LOAD FACTOR 1.16				
DUTY/DEMAND KVA 3.79				
AVERAGE AMPS/LEG BASED ON DUTY/DEMAND KVA 15.8				
#	DESCRIPTION	LOAD	DESCRIPTION	#
1	Res. - Electric Water Heater	20/1 A	20/1 A	1
2	Res. - Electric Water Heater	20/1 B	20/1 B	2
3	Mech. - Wtr. Entry	1.500	20/1 A	20/1 A
4	Space	20/1 B	20/1 B	20/1 B
5	Space	20/1 A	20/1 A	20/1 A
6	Space	20/1 B	20/1 B	20/1 B
7	Space	20/1 A	20/1 A	20/1 A
8	Space	20/1 B	20/1 B	20/1 B
9	Space	20/1 A	20/1 A	20/1 A
10	Space	20/1 B	20/1 B	20/1 B
11	Space	20/1 A	20/1 A	20/1 A
12	Space	20/1 B	20/1 B	20/1 B
ENCLOSURE TYPE: NEMA 1		BREAKER TYPE: PLUG ON		NO. CIRCUITS: 12
CLASS OF EQUIPMENT: LOADCENTER				



Building F : Load Summary : 400a Service				
Load Type	Load Code	Demand Kva	Dmd Factor	Dmd Kva
Lighting	Lgt	0.5	125%	0.6
Gen Use Rec	Rec	0.5	10-50%	0.5
Mechanical Equip	Mech	1.5	125%	1.9
General Lighting	GL	42.6	3-35%	16.9
Dryer	D	20.0	100%	20.0
Range	RG	32.0	50%	16.0
Other	Other	22.5	100%	22.5
Demand Kva				78.4
Demand Amps				326.5

Notes:
 1. HOUSE LOADS 'Lgt', 'Rec', 'Mech'
 2. UNIT LOADS 'Lgt', 'D', 'RG', 'Oth'

FIXTURE SCHEDULE					
TYPE	DESCRIPTION & MANUFACTURES CATALOGUE NUMBERS	FINISH	LOCATION	LAMP(S) NO.	TYPE
A	NOMINAL 18" x 24" LENS FLUORESCENT FIXTURE WITH MEDIUM OAK FINISH, FROSTED WHITE ACRYLIC LENS AND 120V ELECTRONIC BALLAST. LIGHTING #55361LE-15 OR APPROVED EQUIVALENT.	WHITE	KITCHEN	4	82 CRI F32T8/530 3000 Deg K
B	6" ROUND IC RATED LED CAN LIGHT WITH 30K LAMP COLOR AND WHITE TRIM RING. LIGHTING #55361LE-15 OR APPROVED EQUIVALENT.	WHITE	VARIOUS	-	15W/100B/LUM/3000 Deg K
C	NOMINAL 8" DIAMETER SURFACE MOUNTED (ROUND) LED NOMINAL 5" STANDARD HIGH IMPACT POLYCARBONATE COLUMBA #RESLEDA18L-30K-9-WH OR APPROVED EQUIVALENT.	WHITE	VARIOUS	-	18W/940/LUM/3000 Deg K
D	SURFACE MOUNTED NOMINAL 15"DIA. x 5.5" HIGH FLUORESCENT FIXTURE WITH BRUSHED NICKEL TRIM AND SEA GULL LIGHTING #7594ABLE-982 OR APPROVED EQUIVALENT.	NICKEL	VARIOUS	3	80 CRI 13W-CU24 3000 Deg K
E	LAMP WITH MOUNTED OPEN FLUORESCENT STRIP WITH MOUNTED OPEN FLUORESCENT STRIP PROGRESS LIGHTING #77286-30EB OR APPROVED EQUIVALENT.	B.W.E.	LAUNDRY	2	82 CRI F32T8 3000 Deg K
F	SURFACE MOUNTED NOMINAL 17"DIA. x 5" HIGH FLUORESCENT FIXTURE WITH BRUSHED NICKEL TRIM AND STORED ALUMINUM STYLE GLASS. LIGHTING #7594ABLE-982 OR APPROVED EQUIVALENT.	NICKEL	DINING	2	80 CRI 13W-CU24 3000 Deg K
G	SURFACE MOUNTED 18" DIA. SEILING CAN W/ (S) BRUSHED NICKEL FINISH AND LIGHT KIT WITH SWIRL ALUMINUM STYLE GLASS. LIGHTING #7594ABLE-982 OR APPROVED EQUIVALENT.	WHITE	LIVING	2	80 CRI 13W-CU24 3000 Deg K
H	24" WIDE OVER MIRROR LIGHT WITH BRUSHED NICKEL FINISH AND WHITE TEXTURED POLYCARB. KICHLER #8300K-11142NILED OR APPROVED EQUIV.	NICKEL	RESTROOMS	-	20W/141/LUM 3000 Deg K
J	1. LIGHT DECORATIVE SCENCE WITH FLUOR. BULB, NICKEL FINISH AND WHITE GLASS. LIGHTING #49038BLE-999 OR APPROVED EQUIVALENT.	NICKEL	HALL	1	80 CRI 13W-CU24 3000 Deg K
K	SMALL LED EXTERIOR WALL SCENCE OPERATED VIA ASTRONOMICAL TIME SWITCH.	BY ARCH	EXTERIOR	-	8W/720/LUM/3000 Deg K
L	DARK GRAY CONDUIT LED ADDRESS LIGHT OPERATED VIA ASTRONOMICAL TIME SWITCH. MOUNT LV TRANSFORMER IN ACCESSIBLE SPACE. HUBBEL #TRP1-12L-15-367-3-U-XX-POU OR APPROVED EQUIVALENT.	BY ARCH	EXTERIOR	-	4W/147/LUM/3000 Deg K
AA	EXTERIOR LED WALL SCENCE WITH TYPE III HUBBEL #TRP1-12L-15-367-3-U-XX-POU OR APPROVED EQUIVALENT.	BY ARCH	EXTERIOR	-	15W/1477/LUM/3000 Deg K
BB	EXTERIOR SMALL LED WALL SCENCE OPERATED VIA ASTRONOMICAL TIME SWITCH. MOUNT LV TRANSFORMER IN ACCESSIBLE SPACE. HUBBEL #TRP1-12L-15-367-3-U-XX-POU OR APPROVED EQUIVALENT.	BY ARCH	EXTERIOR	-	8W/492/LUM/3000 Deg K

NOTES:
 1. SUBSTITUTIONS PRIOR TO BID REQUIRED. ENGINEERS MUST RECEIVE PRODUCT DATA 10 DAYS PRIOR TO BID - ONLY PRODUCT LISTED IN AN ADDENDUM WILL BE ACCEPTED.
 FIXTURES TO BE ENERGY STAR RATED OR UTILIZE ENERGY EFFICIENT LAMPS AS LISTED IN ADDENDUM.

SYMBOL LEGEND	
20A-1P LIGHT SWITCH MOUNTED AT +45" A.F.F.	20A, 3 WAY SWITCH MOUNTED AT +45" A.F.F.
WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR MOUNTED AT +45" A.F.F.	WATSTOPPER #D5W-301 OR APPROVED EQUIVALENT.
WALL MOUNTED FAN SWITCH MOUNTED AT +45" A.F.F.	WALL MOUNTED ASTRONOMICAL TIME CLOCK ON/OFF FUNCTION MOUNTED AT +45" A.F.F.
WATSTOPPER #RT-200 OR APPROVED EQUIVALENT.	20A TAMPER RESISTANT DUPLEX RECEPTACLE WITH ONE-HALF SWITCHED FOR DISPOSER & DISHWASHER. MOUNT BELOW COUNTER.
15A TAMPER RESISTANT GROUND FAULT CIRCUIT INTERRUPT TYPE DUPLEX RECEPTACLE MOUNT AT +45" A.F.F. UNLESS INDICATED OTHERWISE ON DRAWINGS.	15A TAMPER RESISTANT AFCI BREAKER PROTECTED (GENERAL USE) DUPLEX RECEPTACLE. MOUNTED AT +18".
30A-120/250V OUTLET FOR DRYER. GROUND PER NEC.	50A-120/250V OUTLET FOR RANGE. GROUND PER NEC. MOUNTING HEIGHT TO BE COORDINATED WITH EQUIPMENT INSTALLED.
CONNECTION FOR EXHAUST FAN. PROVIDE SNAP SWITCH NO THERMAL OVERLOAD MOUNT 6" MTR.	CONNECTION FOR FAN COIL UNIT. PROVIDE SNAP SWITCH WITH THERMAL OVERLOAD MOUNT 6" MTR.
CONNECTION FOR WATERHEATER. RE: MECHANICAL	HEAVY DUTY MOTOR DISCONNECT SWITCH FOR UNIT AIR CONDITIONING UNIT.
TELEPHONE OUTLET MOUNTED. PROVIDE A SINGLE GANG BACKBOX, BLANK PLATE AND 3/4" x INTO ACCESSIBLE CRAWLSPACE OR AS OTHERWISE DIRECTED BY ARCHITECT.	CABLE TELEVISION OUTLET - PROVIDE SINGLE GANG BACKBOX, BLANK PLATE AND 3/4" x INTO ACCESSIBLE CRAWLSPACE OR AS OTHERWISE DIRECTED BY ARCHITECT.
120V WIRING CONDUIT. RESERVATION FOR DETECTOR/CARBON MONITORING WITH 9V BATTERY BACKUP AND ALARM. UNITS TO BE TAKEN WIRE WITHIN APT. UNIT TO SOUND ALARM'S SIMULTANEOUSLY.	120V HARD WIRED STROBE LIGHT WITH 9V BATTERY BACK UP. UNITS TO BE INTERCONNECTED WITH THE SMOKE/CARBON DETECTORS IN UNIT.
SYSTEM EXTERIOR WEATHER PROOF HORN/STROBE PROVIDED AND INSTALLED BY FIRE SPRINKLER CONTRACTOR AND TIED INTO FIRE SPRINKLER SYSTEM. CONDUIT AND BOXES BY ELEC CONTRACTOR.	SYSTEM SMOKE DETECTOR PROVIDED AND INSTALLED BY FIRE SPRINKLER CONTRACTOR. CONDUIT AND BOXES BY ELEC CONTRACTOR.
WATERFLOW SWITCH/ES PROVIDED AND INSTALLED BY FIRE PROTECTION CONTRACTOR.	TAMPER SWITCH/ES PROVIDED AND INSTALLED BY FIRE PROTECTION CONTRACTOR.
SYMBOL ATTRIBUTES - 'A' = MOUNTED ABOVE COUNTER. RE: ARCHITECTURAL CASEWORK.	



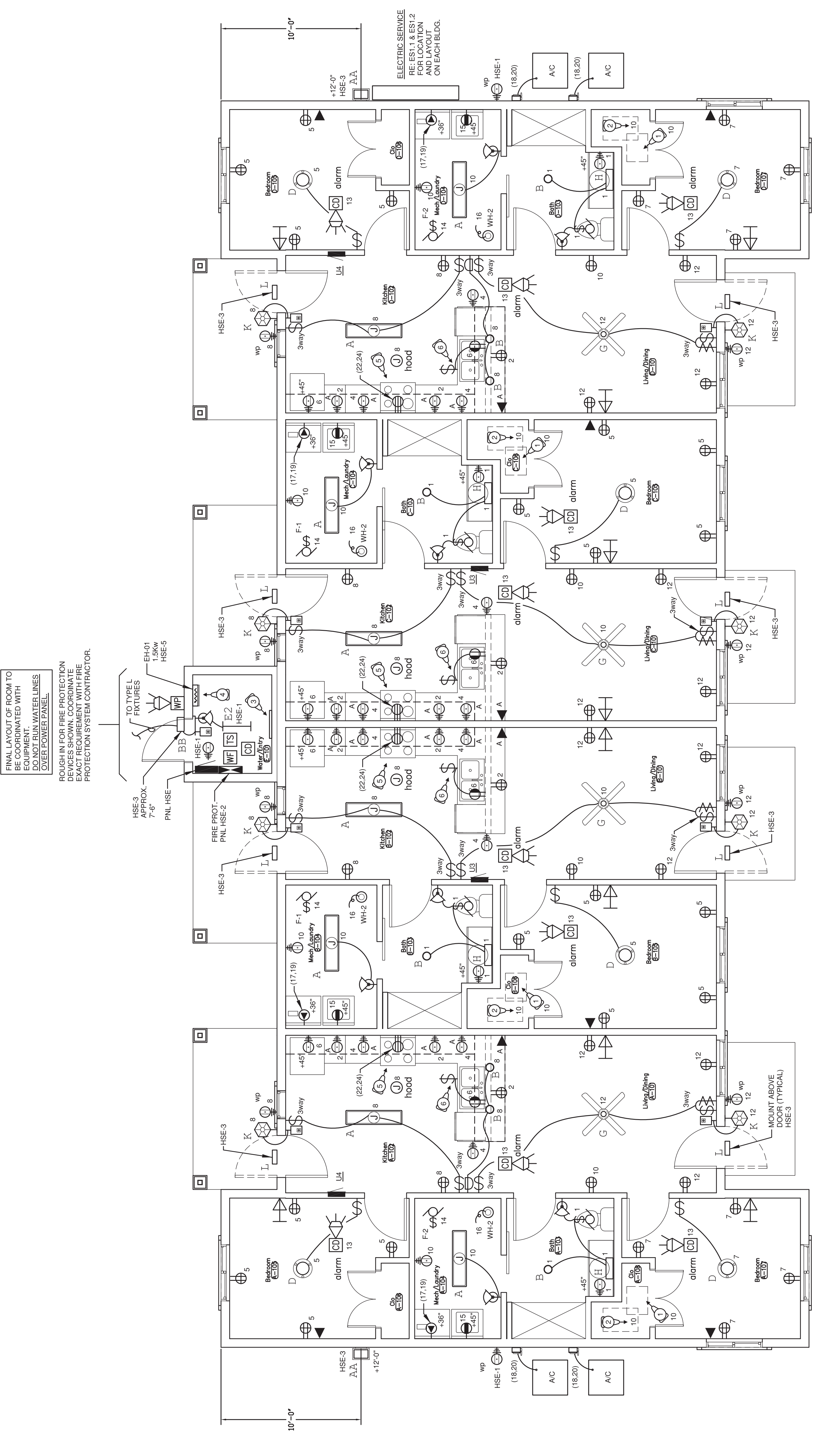
GENERAL NOTES:
 IT IS THE CONTRACTOR'S RESPONSIBILITY NOT TO CONFLICT WITH ANY MECHANICAL OR ELECTRICAL CODES REQUIRED BY THE NATIONAL ELECTRICAL CODE.
 CONFIRM EXACT LOCATION OF MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.

CATV AND TELEPHONE REQUIREMENTS:
 PROVIDE ROUGH-IN FOR TV AND PHONE OUTLETS. PROVIDE TELEPHONE JACKS IN EACH UNIT. PROVIDE SPACE OR OTHERWISE AS DIRECTED BY ARCHITECT. PROVIDE INSULATED BUSHING ON STUB END OF CONDUIT. CABLES (IN).

POWER BRANCH CIRCUIT REQUIREMENTS:
 15A GENERAL LIGHTING BRANCH CIRCUITS (M14-9).
 20A BRANCH CIRCUITS FOR REFRIGERATION (M14-10).
 30A AC UNIT AND DRYER BRANCH CIRCUIT (28-10).
 50A ELECTRIC RANGE BRANCH CIRCUIT (38-9).
 WIRING METHODS IN UNITS MAY BE MC OR FLEXIBLE NON METALLIC CONDUIT SYSTEMS AS ALLOWED BY THE NATIONAL ELECTRICAL CODE. NMC ALLOWED FOR APARTMENT UNIT WIRING ONLY.
 ALL 1/2" CIRCUIITS REQUIRE A DEDICATED NEUTRAL.

- GENERAL NOTES:**
- ONLY APPROVED PRODUCTS LISTED ON DRAWINGS OR IN AN ADDENDUM WILL BE ACCEPTED.
 - REFER TO MECHANICAL DRAWINGS AND ADDENDUMS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT.
 - ELECTRICAL CONTRACTOR TO CONFIRM ALL MECHANICAL EQUIPMENT CONNECTIONS PRIOR TO ROUGH-IN.
 - ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL CASEWORK DRAWINGS PRIOR TO ROUGH-IN.
 - ALL CONDUITS FOR LOW VOLTAGE SYSTEMS TO HAVE INSULATED BUSHINGS AND PULL STRING. COORDINATE WITH SERVING UTILITY (TELEPHONE) FOR EXACT REQUIREMENTS.
 - ALL KITCHEN RECEPTACLES TO BE TAMPER RESISTANT GFI RECEPTACLES.
 - RE-ARCHITECTURAL DRAWINGS FOR FIRE SEPERATION.

- FLAG NOTES:**
- PROVIDE (2) FLUORESCENT KEYLESS EQUAL TO LEVITON (8850L) AND (1) RECEPTACLE IN CRAWLSPACE. WIRE TO SPACED INDICATED.
 - PROVIDE (2) FLUORESCENT KEYLESS EQUAL TO LEVITON RECEPTACLE IN ATTIC SPACE. WIRE TO CIRCUIT INDICATED.
 - PROVIDE A TAMPER RESISTANT RECEPTACLE FOR REFRIGERATION. COORDINATE EXACT REQUIREMENTS WITH SERVICE PROVIDERS.
 - PROVIDE 120V CONNECTION FOR IRRIGATION CONTROLS. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER. WIRE TO CIRCUIT HSE-4.
 - INSTALL CONTROLS FOR HOODLIGHT IN APPROX. COORDINATE EXACT REQUIREMENTS WITH ARCHITECTURAL CASEWORK.
 - INSTALL SWITCH FOR DISPOSER IN CASEWORK. COORDINATE WITH ARCHITECTURAL CASEWORK DETAILS.



BLDG F - FIRST FLOOR - ELECTRICAL PLANS



SCHEDULE FOR PANEL U3

VOLTS/PHASE/WIRE: 120/240/1Ph-3W MAIN DEVICE: 100A MLO
 MOUNTING: ELUSH S.C. RATING: 10,000 AIC
 NOTES: Provide with (1) each Spare 3/4" into Attic & Crawlspace
 A' Indicates Arc Fault Circuit Interrupt type Breaker.

Duty/Demand Load is Calculated Per NEC: 119, Comp, Htg, Wtr & Ac at 120% Rec @ 10 + 50% and Other @ 100%

PHASE A (KVA) 16.6
 PHASE B (KVA) 15.9
 PHASE C (KVA) N/A

CONNECTED KVA 30.94
 LOAD FACTOR 0.77
 DUTY/DEMAND KVA 23.78

AVERAGE AMPS/LEG BASED ON DUTY/DEMAND KVA 98.1

#	DESCRIPTION	LOAD	BRKR	PHI	BRKR	LOAD	DESCRIPTION	#
1	GL: 1st Flr Toilet	1,500	A207/A	A	A207/A	1,500	GL: Kt. Appliance	2
3	Spare	A207/B	A	A207/B	1,500	GL: Kt. Appliance	4	
5	GL: Bedroom 1	765	A207/A	A	A207/A	1,500	GL: Disposer/2W	6
7	Spare	1,500	A207/A	A	A207/A	1,500	GL: Living Rm Rec	8
9	Spare	1,485	A207/A	A	A207/A	800	GL: Living Rm Rec	10
11	Spare	860	A207/B	B	A207/B	900	GL: Living Rm Rec	12
13	Other: Smoke Detectors	300	A207/A	A	A207/A	495	Other: Furnace	14
15	Other: Laundry	1,500	A207/B	B	A207/B	900	Other: Water Heater	16
17	Other: Dryer	2,500	307/A	A	307/A	1,800	Other: Condensing Unit	18
19	Spare	2,500	307/A	A	307/A	1,800	Other: Range	20
21	Spare	2,500	307/A	A	307/A	1,800	Other: Range	22
23	Spare	4,000	B	B	4,000	Do	Do	24

ENCLOSURE TYPE: NEMA 1 BREAKER TYPE: PLUG ON
 CLASS OF EQUIPMENT: LOADCENTER NO. CIRCUITS: 24

SCHEDULE FOR PANEL U4

VOLTS/PHASE/WIRE: 120/240/1Ph-3W MAIN DEVICE: 125A MLO
 MOUNTING: ELUSH S.C. RATING: 10,000 AIC
 NOTES: Provide with (2) each Spare 3/4" into Attic & Crawlspace
 A' Indicates Arc Fault Circuit Interrupt type Breaker.

Duty/Demand Load is Calculated Per NEC: 119, Comp, Htg, Wtr & Ac at 120% Rec @ 10 + 50% and Other @ 100%

PHASE A (KVA) 17.0
 PHASE B (KVA) 14.7
 PHASE C (KVA) N/A

CONNECTED KVA 30.19
 LOAD FACTOR 0.81
 DUTY/DEMAND KVA 24.49

AVERAGE AMPS/LEG BASED ON DUTY/DEMAND KVA 102.0

#	DESCRIPTION	LOAD	BRKR	PHI	BRKR	LOAD	DESCRIPTION	#
1	GL: 1st Flr Toilet	1,500	A207/A	A	A207/A	1,500	GL: Kt. Appliance	2
3	Spare	A207/B	A	A207/B	1,500	GL: Kt. Appliance	4	
5	GL: Bedroom 1	765	A207/A	A	A207/A	1,500	GL: Disposer/2W	6
7	Spare	1,500	A207/A	A	A207/A	1,500	GL: Living Rm Rec	8
9	Spare	1,485	A207/A	A	A207/A	800	GL: Living Rm Rec	10
11	Spare	860	A207/B	B	A207/B	900	GL: Living Rm Rec	12
13	Other: Smoke Detectors	300	A207/A	A	A207/A	495	Other: Furnace	14
15	Other: Laundry	1,500	A207/B	B	A207/B	900	Other: Water Heater	16
17	Other: Dryer	2,500	307/A	A	307/A	1,800	Other: Condensing Unit	18
19	Spare	2,500	307/A	A	307/A	1,800	Other: Range	20
21	Spare	2,500	307/A	A	307/A	1,800	Other: Range	22
23	Spare	4,000	B	B	4,000	Do	Do	24

ENCLOSURE TYPE: NEMA 1 BREAKER TYPE: PLUG ON
 CLASS OF EQUIPMENT: LOADCENTER NO. CIRCUITS: 24