



Dzilth-Na-O-Dith-Hle

Student Dormitories

PRICING SET

NOVEMBER 10TH, 2020

GENERAL

G-000 COVER SHEET
G-001 BUILDING CODE ANALYSIS
G-010 ACCESSIBILITY GUIDELINES

CIVIL

*FOR CIVIL SEE DZILTH-NA-O-DITH-HLE
COMMUNITY SCHOOL + SITE PACKAGE

LANDSCAPE

*FOR LANDSCAPE SEE DZILTH-NA-O-DITH-HLE
COMMUNITY SCHOOL + SITE PACKAGE

STRUCTURAL

ISSUED OCTOBER 5, 2020
INCLUDED HERE FOR REFERENCE
(REVISIONS TO DATE ARE CLOUDED)

S-001 GENERAL STRUCTURAL NOTES
S-002 STRUCTURAL QUALITY ASSURANCE INSPECTIONS
S-101 FOUNDATION PLAN
S-111 ROOF FRAMING PLAN
S-301 FOUNDATION SECTIONS
S-305 FRAMING SECTIONS
S-306 FRAMING SECTIONS
S-505 FRAMING DETAILS
S-601 BRACED FRAME ELEVATIONS & DETAILS

ARCHITECTURAL

A-101 FLOOR PLAN
A-111 DIMENSION PLAN
A-120 REFLECTED CEILING PLANS
A-131 ROOF PLAN
A-141 ROOF DETAILS
A-142 ROOF DETAILS
A-143 ROOF DETAILS
A-201 BUILDING ELEVATIONS
A-301 BUILDING SECTIONS
A-302 BUILDING SECTIONS
A-311 WALL SECTIONS
A-312 WALL SECTIONS
A-313 WALL SECTIONS
A-401 ENLARGED PLANS AND ELEVATIONS
A-402 ENLARGED PLANS AND ELEVATIONS
A-403 ENLARGED PLANS AND ELEVATIONS
A-501 PARTITION SCHEDULE
A-601 DOOR-WINDOW SCHEDULE

INTERIORS

ID-101 FINISH LEGEND
ID-102 FLOOR FINISH PLAN

PLUMBING

P-001 PLUMBING LEGEND
PL-101 WASTE & VENT FLOOR PLAN
PL-131 PLUMBING ROOF PLAN
PP-101 PRESSURE PIPING FLOOR PLAN
P-401 ENLARGED PLUMBING PLANS
P-402 ENLARGED PLUMBING PLANS
P-501 PLUMBING DETAILS
P-502 PLUMBING DETAILS
P-701 PLUMBING SCHEDULES
P-702 PLUMBING SCHEDULES

FIRE PROTECTION

FX001 FIRE PROTECTION LEGEND
FX-101 FIRE PROTECTION FLOOR PLAN
FX-131 FIRE PROTECTION ROOF PLAN
FX501 FIRE PROTECTION DETAILS

MECHANICAL

M-001 MECHANICAL LEGEND
MH-101 HVAC FLOOR PLAN
MH-131 MECHANICAL ROOF PLAN
MP-101 MECHANICAL PIPING FLOOR PLAN
M-401 ENLARGED MECHANICAL PLANS
M-402 ENLARGED MECHANICAL PLANS
M-501 MECHANICAL DETAILS
M-502 MECHANICAL DETAILS
M-503 MECHANICAL DETAILS
M-601 MECHANICAL DIAGRAMS
M-602 MECHANICAL DIAGRAMS
MI001 MECHANICAL CONTROLS LEGEND
MI001 MECHANICAL CONTROLS DIAGRAM
MI001 MECHANICAL CONTROLS DIAGRAM
MI001 MECHANICAL CONTROLS DIAGRAM
MI001 MECHANICAL SCHEDULES
M-701 MECHANICAL SCHEDULES
M-702 MECHANICAL SCHEDULES

ELECTRICAL

E-001 ELECTRICAL LEGEND
E-002 ADA MOUNTING DETAIL
ES-101 ELECTRICAL SITE PLAN
EL-101 LIGHTING FLOOR PLAN
EP-101 POWER FLOOR PLAN
EP-141 ELECTRICAL ROOF PLAN
EP-101 POWER FLOOR PLAN
LP-141 LIGHTNING PROTECTION ROOF PLAN
FA-101 FIRE ALARM FLOOR PLAN
E-401 ENLARGED PLANS
E-501 ELECTRICAL DETAIL SHEET
E-502 LIGHTNING PROTECTION DETAILS
E-601 ELECTRICAL DIAGRAMS
E-602 GROUNDING DIAGRAM
E-603 ELECTRICAL FIRE RISER DIAGRAM
E-701 ELECTRICAL SCHEDULES
E-702 ELECTRICAL PANEL SCHEDULES

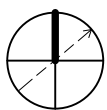
TECHNOLOGY

T-101 TECHNOLOGY PLAN



VICINITY MAP

35 Road 7585 #5003 - Bloomfield, NM 87413



BIM MODEL REQUIREMENTS

BIM MODEL SUBMITTAL & COORDINATION REQUIREMENTS

All requirements noted in individual specification sections for submittal of coordination drawings and shop drawings shall be strictly followed. Item or Equipment fabrications and installations that occur prior to the approval of these drawings shall be subject to removal and replacement at no additional cost to the owner.

In addition to the required drawings noted above, contractor shall prepare BIM (Building Information Model) for the systems noted below. The intent of this BIM model is to determine conflicts and coordinate solutions that will resolve final system installation. The contractor may use the overall BIM model to generate the coordination drawings and vice-versa.

1. HVAC
2. Plumbing
3. Electrical
4. Fire Protection
5. Special Systems
6. Structural

OWNER

Dzilth-Na-O-Dith-Hle Community School
35 Road 7585 #5003
Bloomfield, NM 87413
p_505.960.8563

CONSULTANTS

CIVIL
Bohannon Huston
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.1000

STRUCTURAL
Walla Engineering Ltd
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

M/E/P/FP
Bridgers and Paxton
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111

INTERIORS
Studio M
6501 Americas Pkwy NE Ste. 301
Albuquerque, NM 87110
p_505.243.9287

SITE
Groundwork Studio
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126

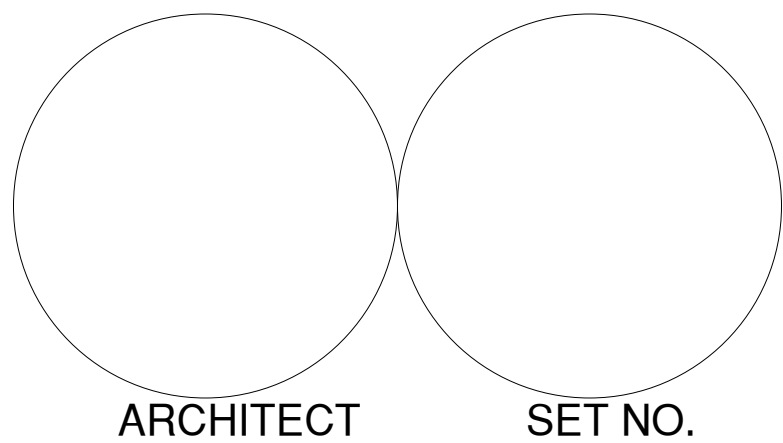
FOOD SERVICE
Standard Kitchen Supply
2405 Candelaria Rd. NE,
Albuquerque, NM 87107
p_505.341.1054

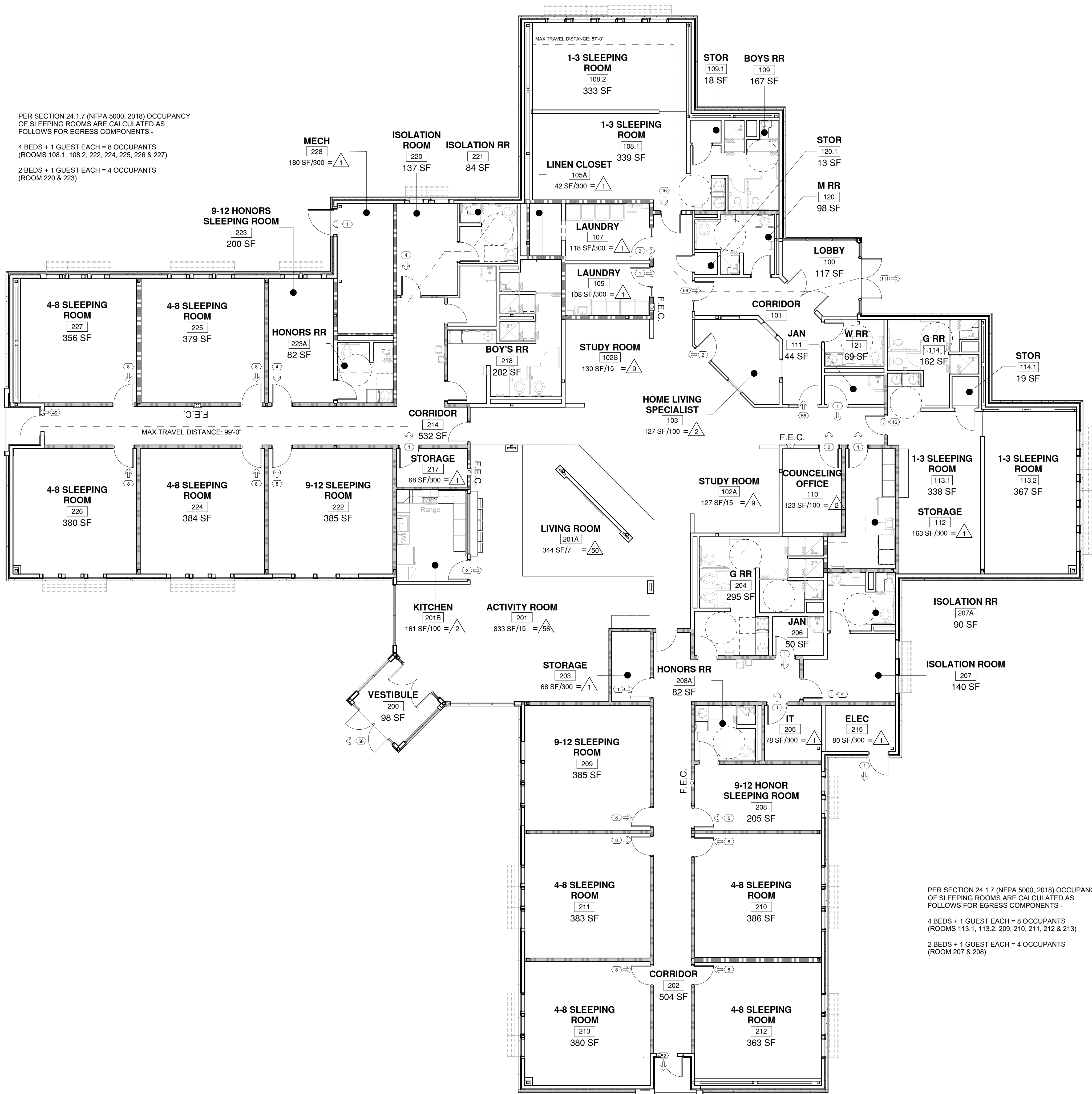
AV & TECHNOLOGY
Network Cabling, INC
3100 La Plata HWY
Farmington, NM 87401
p_505.598.5054

fbt | architects

MAIL: 6501 Americas Pkwy NE Ste. 300
Albuquerque, NM 87110

PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com





PER SECTION 24.1.7 (NFPA 5000, 2018) OCCUPANCY OF SLEEPING ROOMS ARE CALCULATED AS FOLLOWS FOR EGRESS COMPONENTS -

4 BEDS + 1 GUEST EACH = 8 OCCUPANTS
(ROOMS 108.1, 108.2, 222, 224, 225, 226 & 227)

2 BEDS + 1 GUEST EACH = 4 OCCUPANTS
(ROOM 220 & 223)

PER SECTION 24.1.7 (NFPA 5000, 2018) OCCUPANCY OF SLEEPING ROOMS ARE CALCULATED AS FOLLOWS FOR EGRESS COMPONENTS -

4 BEDS + 1 GUEST EACH = 8 OCCUPANTS
(ROOMS 113.1, 113.2, 209, 210, 211, 212 & 213)

2 BEDS + 1 GUEST EACH = 4 OCCUPANTS
(ROOM 207 & 208)

CODE ANALYSIS

REFERENCES

BUILDING / LIFE SAFETY - NFPA 5000, (CURRENT EDITION).
MECHANICAL - UNIFORM MECHANICAL CODE (CURRENT EDITION), 2018 Ed.
PLUMBING - UNIFORM PLUMBING CODE (CURRENT EDITION), 2018 Ed.
ACCESSIBILITY - AMERICANS WITH DISABILITIES ACT (ADA), 2004 Ed.
ARCHITECTURAL BARRIERS ACT ACCESSIBILITY GUIDELINES (ABAAG), 2018 Ed.
FIRE PROTECTION - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 13), 2018 Ed.

ADDRESS

35 ROAD 7585
BLOOMFIELD, NM 87413

OCCUPANCY CLASSIFICATION

RESIDENTIAL - DORMITORY SECTION 6.1.8.1.4

CONSTRUCTION TYPE

NEW CONSTRUCTION: TYPE II (000), FULLY SPRINKLERED

ALLOWABLE BUILDING HEIGHT AND AREA

NUMBER OF STORIES: ALLOWABLE - 5
ACTUAL - 1

BUILDING HEIGHT:

ALLOWABLE - 75'-0"
ACTUAL - 29'-0"

GROSS BUILDING AREA:

ALLOWABLE - 16,000
ACTUAL - 13,889

FIRE RATED CONSTRUCTION

TYPE II (000) CONSTRUCTION:
EXTERIOR BEARING WALLS - 0 FLOOR/CEILING ASSEMBLIES - 0
INTERIOR BEARING WALLS - 0 ROOF/CEILING ASSEMBLIES - 0
COLUMNS - 0 INTERIOR NON BEARING WALLS - 0
BEAMS, GIRDERS, TRUSSES & ARCHES - 0 EXTERIOR NON BEARING WALLS - 0

*HEAVY TIMBER STRUCTURAL ELEMENTS ARE PERMITTED (7.2.3.2.10)

EXTERIOR WALLS

FIRE RESISTANCE RATING - 0

MEANS OF ESCAPE

SECONDARY MEANS OF ESCAPE IS NOT REQUIRED (SPRINKLERED) (22.2.1.2 (2))

COMMON PATH OF TRAVEL

50 FT. MAXIMUM EDUCATIONAL OCCUPANCY (SPRINKLERED)
- ROOMS NOT INCLUDED WHEN DETERMINING LENGTH (24.2.5.5)

DEAD-END CORRIDORS

50 FT. MAXIMUM EDUCATIONAL OCCUPANCY (SPRINKLERED)

TRAVEL DISTANCE TO EXITS

200 FT. MAXIMUM EDUCATIONAL OCCUPANCY (SPRINKLERED)

HAZEROUS AREA PROTECTION

1 HOUR SEPARATION + FIRE SPRINKLERS
- BOILER & HEATER ROOMS - SMOKE PARTITIONS + FIRE SPRINKLERS
- GUEST LAUNDRY ROOMS - SMOKE PARTITIONS + FIRE SPRINKLERS
- STORAGE ROOMS - SMOKE PARTITIONS + FIRE SPRINKLERS

EXTINGUISHMENT REQUIREMENTS

EQUIPPED THROUGHOUT WITH AN ELECTRICALLY SUPERVISED AUTOMATIC SPRINKLER SYSTEM

COORIDOR FIRE RESISTANCE RATING

12 HOUR (SPRINKLERED) (24.3.6.2)
DOORS MINIMUM 20 MIN. RATED (24.3.6.3)

SUBDIVISION OF BUILDING SPACES

ALL DORM ROOMS SEPARATED BY 12 HOUR FIRE BARRIER WALL

FIRE EXTINGUISHERS (FE)

RESIDENTIAL OCCUPANCY
MINIMUM RATED EXTINGUISHER: 4-A
MAXIMUM FLOOR AREA PER UNIT OF A: 3,000 SF
MAXIMUM ALLOWABLE DISTANCE BETWEEN: 75 LF
NUMBER REQUIRED: 5
NUMBER PROVIDED: 8

UNIFORM PLUMBING CODE, TABLE 422.1, 2018 Ed TABLE R-2 DORMITORIES MINIMUM PLUMBING FACILITIES - UPC TABLE 422.1

Dormitories - School								
GSF / 200 = TOTAL NUMBER OF OCCUPANTS - 13,889 / 200 = 70								
MALE OCC. LOAD 70 / 2 = 35				FEMALE OCC. LOAD 70 / 2 = 35			DRINKING FOUNTAIN	
	FACTOR	REQUIRED	PROVIDED		FACTOR	REQUIRED	PROVIDED	1 PER 150
UR	1:25	1	1					
WC	1:10	4	6	WC	1:8	5	7	
LAV	1:12	2	6	LAV	1:12	3	6	
					+1:15 over 12			1 REQ.
SH	1:8	5	7	LAV	1:8	5	7	4 PROV.
Dormitories - Staff								
Assuming a maximum of 8 Staff								
MALE OCC. LOAD 8 / 2 = 4				FEMALE OCC. LOAD 8 / 2 = 4			ADULT SHOWER	
	FACTOR	REQUIRED	PROVIDED		FACTOR	REQUIRED	PROVIDED	1 PER 8
UR	1:50	1	1					
WC	1:15	1	1	WC	1:15	1	1	1 REQ.
LAV	1:40	1	1	LAV	1:40	1	1	0 PROV.

CODE SYMBOL LEGEND

- 1/2 HOUR FIRE PARTITION
- AREA OCCUPANT LOAD
- F.E.C. SEMI RECESSED FIRE EXTINGUISHER CABINET
- EXIT TRAVEL DISTANCE
- EXIT OCCUPANT LOAD (ARROW INDICATES DIRECTION TO EXIT)

CONSULTANT

CIVIL

Bohannon Huston
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

STRUCTURAL

Walla Engineering Ltd
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

M/E/P/FP

Bridgers and Paxton
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111 f_505.888.1436

INTERIORS

Studio M
6501 Americas Pkwy NE Ste. 301
Albuquerque, NM 87110
p_505.243.9287

SITE

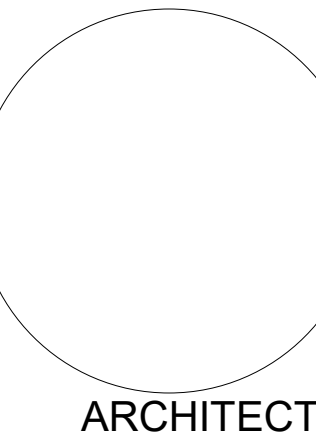
Groundwork Studio
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126

FOOD SERVICE

Standard Kitchen Supply
2405 Candelaria Rd. NE,
Albuquerque, NM 87107
p_505.341.1054

ENVELOPE AND ROOF CONSULTANT

Armstrong Group INC.
2415 Princeton Ave, NE Suite E
Albuquerque, NM 87107
p_505.235.7596



Dzilth-Na-O-Dith-Hle - New Dormitory Building

PRICING SET

35 Road 7585, Bloomfield, NM
87413

NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
------	------	-------------

ISSUE:

DATE:

PROJECT NO: 751

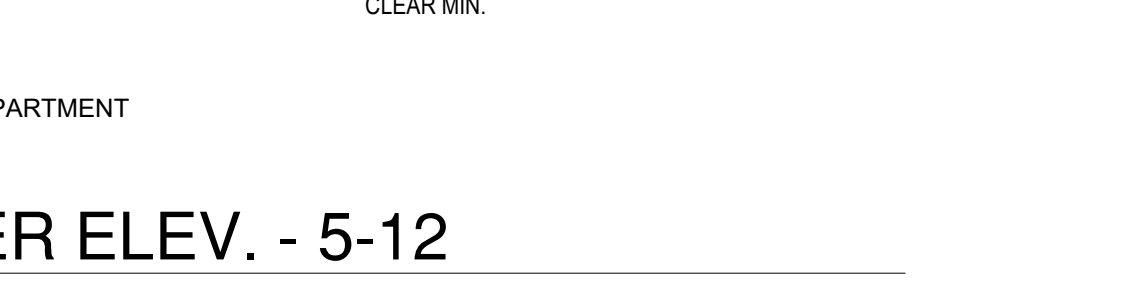
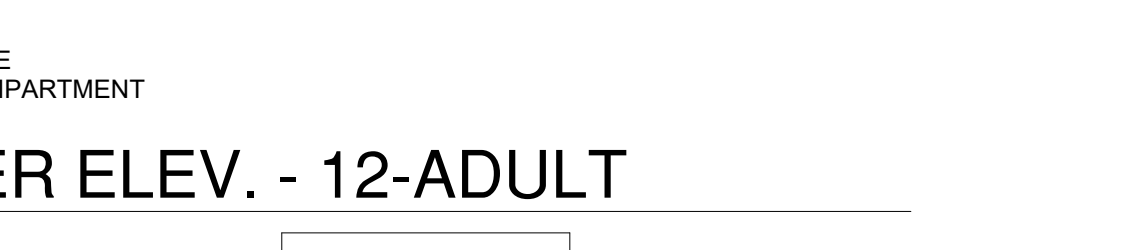
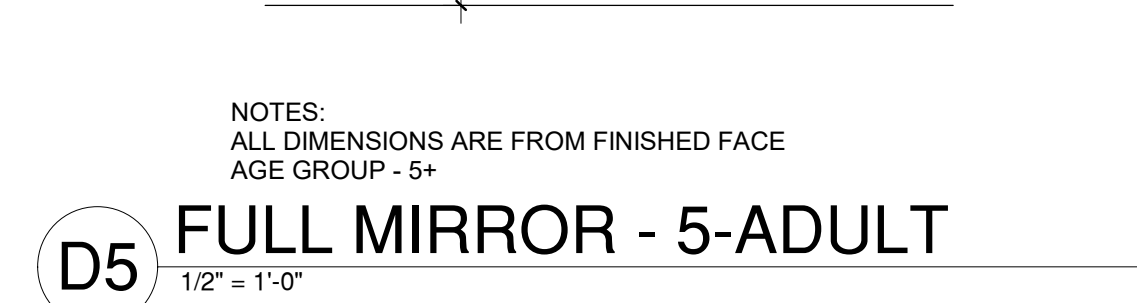
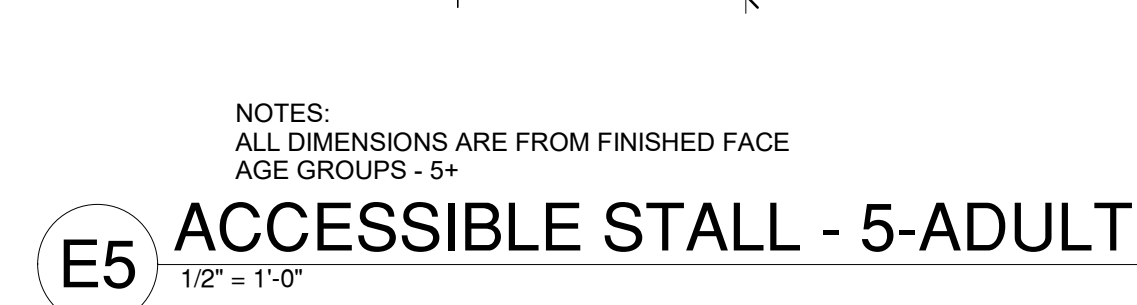
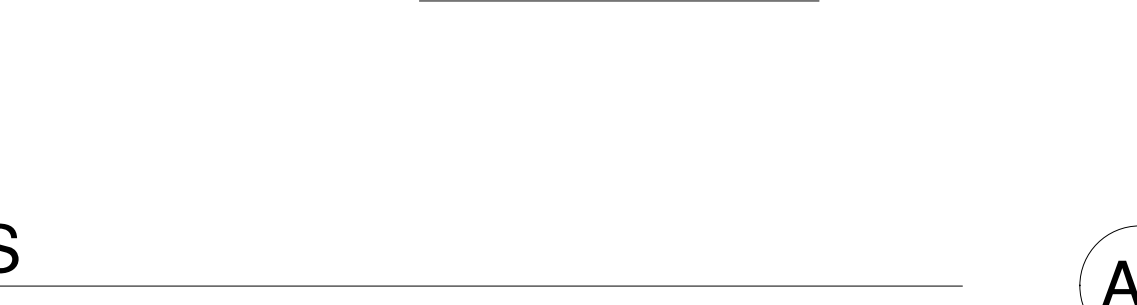
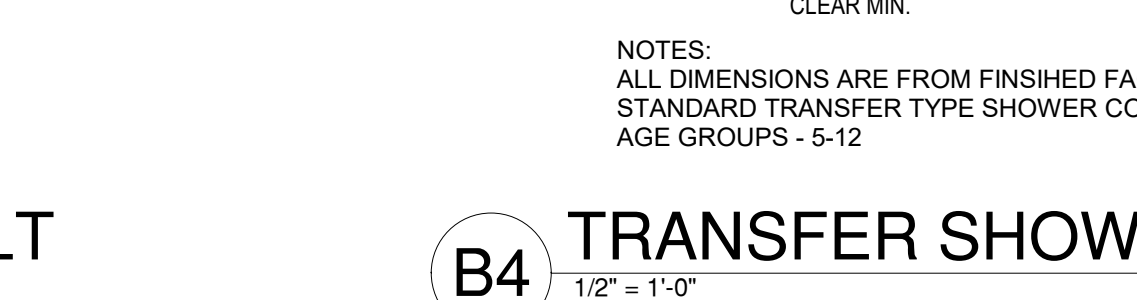
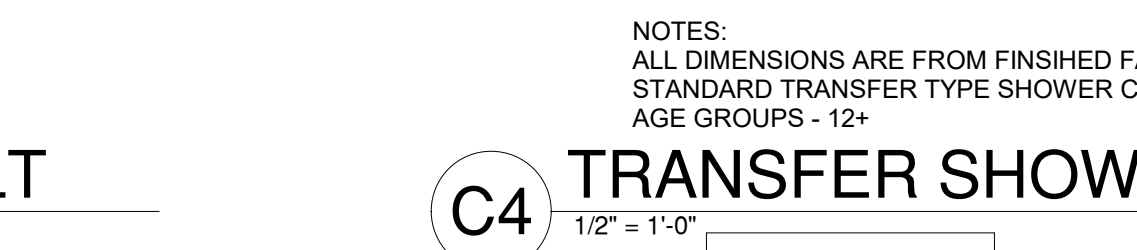
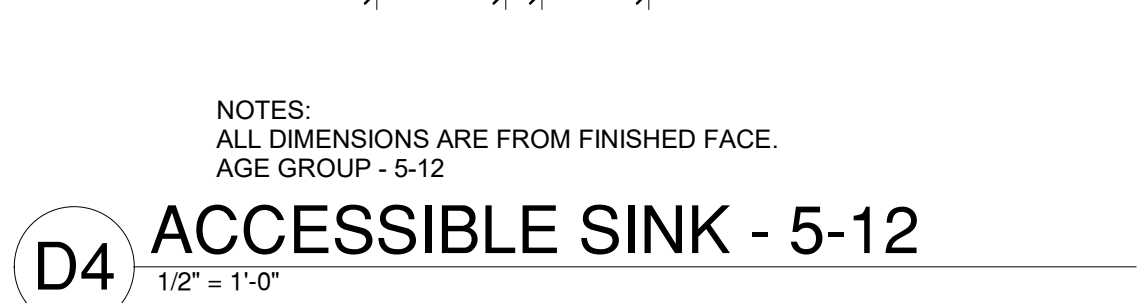
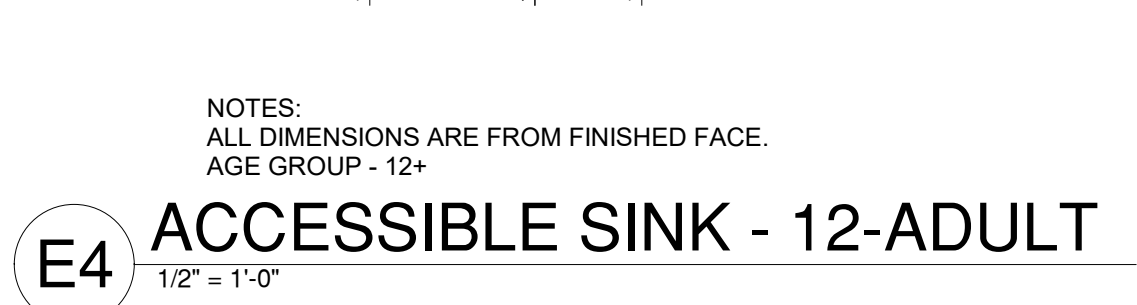
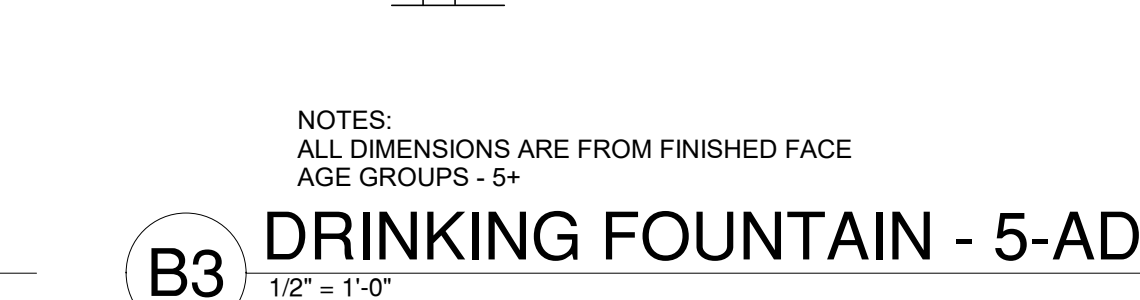
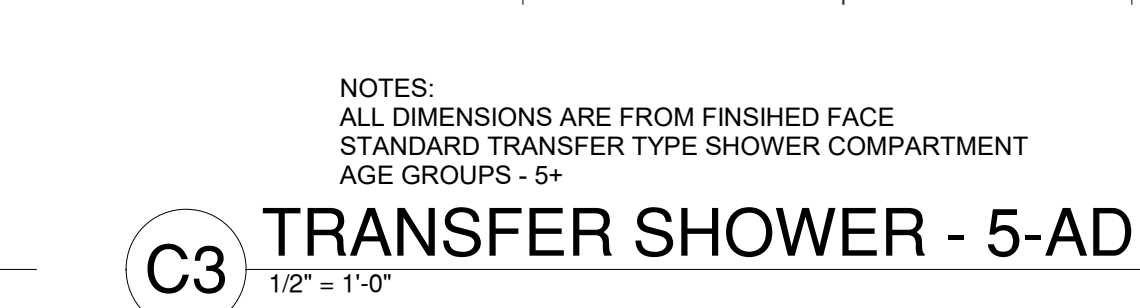
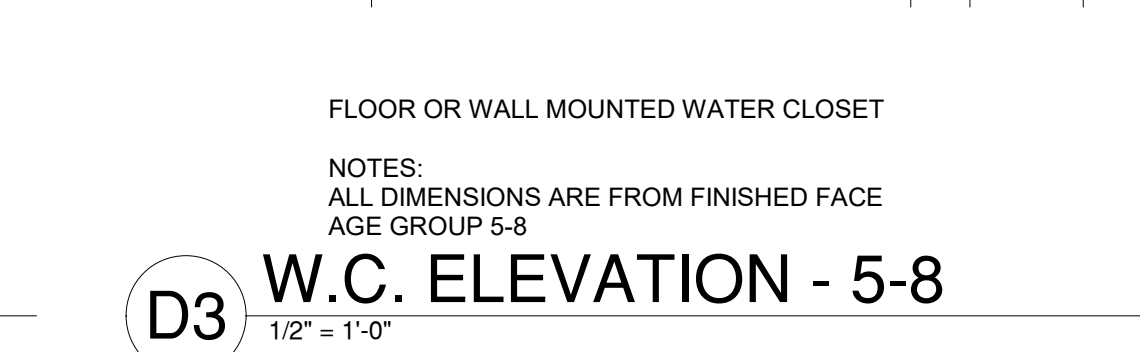
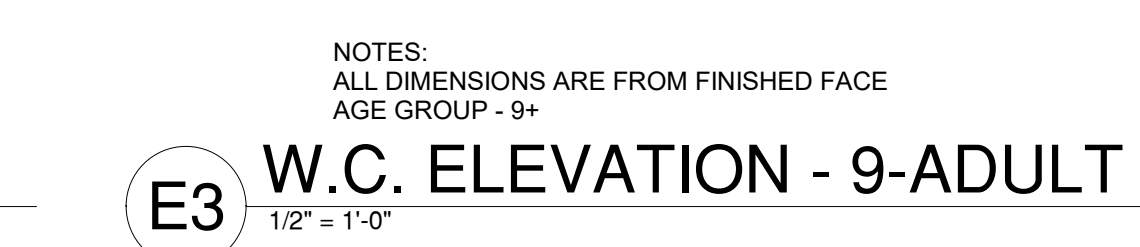
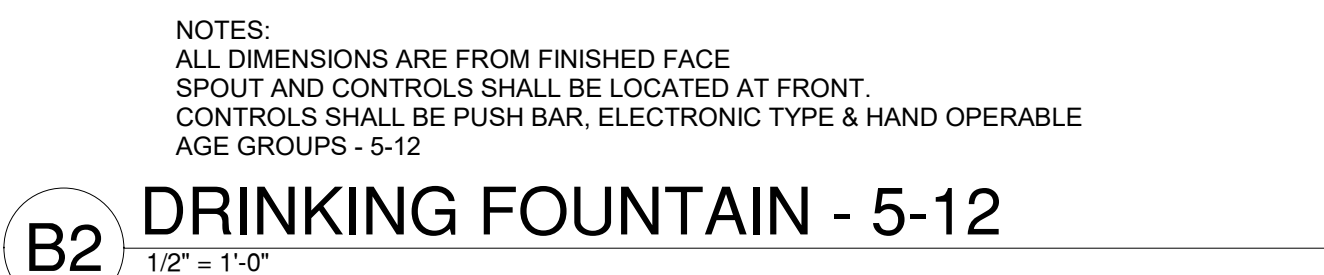
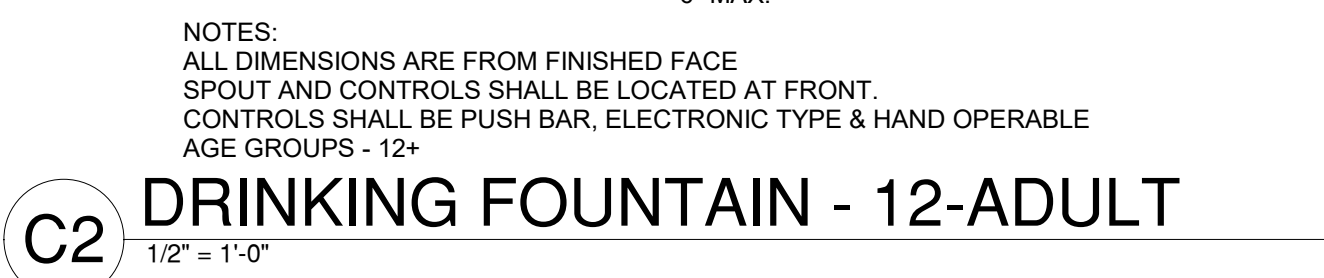
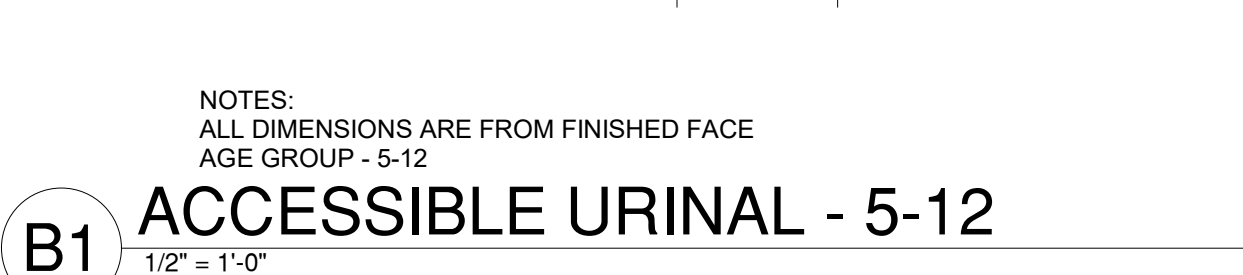
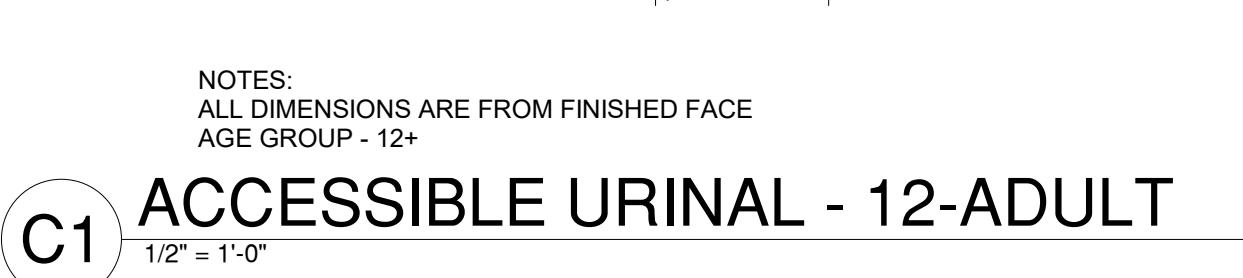
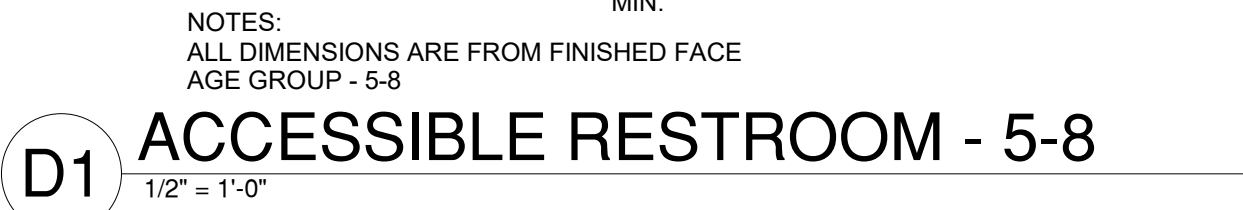
CAD DWG FILE:

DRAWN BY: JFA

CHECKED BY: JTT

SHEET TITLE

BUILDING CODE ANALYSIS



ALL FIXTURES AND ACCESSORIES SHALL COMPLY WITH ADA, ANSI, UFAS, AND LOCAL AND STATE BUILDING CODE REQUIREMENTS. ALL HEIGHTS, DIMENSIONS AND CLEARANCES FOR PLUMBING FIXTURES, CASEWORK, COUNTERTOPS, ACCESSORIES, SIGNAGE, ACCESSIBLE ROUTES, ETC. SHALL BE STRICTLY HELD TO ADA, ANSI, AND LOCAL AND STATE REQUIREMENTS. IN THE EVENT OF CONFLICTING REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENTS SHALL APPLY.

CONSULTANT

CIVIL
Bohannon Huston
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

STRUCTURAL
Walla Engineering Ltd
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

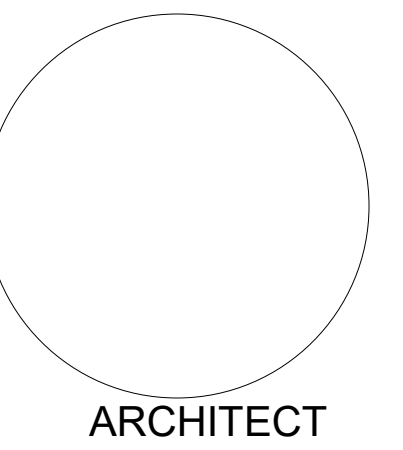
M/E/P/FP
Bridgers and Paxton
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111 f_505.888.1436

INTERIORS
Studio M
6501 Americas Pkwy NE Ste. 301
Albuquerque, NM 87110
p_505.243.9287

SITE
Groundwork Studio
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126

FOOD SERVICE
Standard Kitchen Supply
 2405 Candelaria Rd. NE,
 Albuquerque, NM 87107
 p_505.341.1054

ENVELOPE AND ROOF CONSULTANT
Armstrong Group INC.
 2415 Princeton Ave, NE Suite E
 Albuquerque, NM 87107
 p_505.235.7596



Dzilth-Na-O-Dith-Hle - New Dormitory Building

PRICING SET

35 Road 7585, Bloomfield, NM
87413

NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
------	------	-------------

ISSUE:	
DATE:	
PROJECT NO:	751
CAD DWG FILE:	
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE
ACCESSIBILITY GUIDELINES

G-010

GENERAL STRUCTURAL NOTES

- CODES AND MANUALS:**
 NFPA 5000, 2018 EDITION.
 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-10,
 AISI MANUAL OF STEEL CONSTRUCTION, 9TH EDITION
 SJI STANDARD SPECIFICATIONS, LOAD TABLES AND WEIGHT TABLES FOR STEEL
 JOISTS AND JOIST GIRDERS
 ASD DIAPHRAGM DESIGN MANUAL, 2ND EDITION
 AISI COLD FORMED STEEL MANUAL, CURRENT EDITION
 ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318
 AWS D1.1 AND D1.3

2. DESIGN CRITERIA:

 - A. VERTICAL:**
 - LIVE LOAD**

ROOF (SNOW) PENTHOUSE	25 PSF + DRIFTS 100 PSF
Is (IMPORTANCE FACTOR FOR SNOW) 1.1	

 - *LOAD HAS NOT BEEN REDUCED
 - B. HORIZONTAL LOADS:**
 - (1) WIND*

P = WIND PRESSURE x Iw

WIND SPEED	$V_{3s}=115$ MPH
WIND PRESSURE - END ZONE	21.0 PSF
INTERIOR ZONE	13.9 PSF
HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENT FROM FIGURE 6-2 IN ASCE 7-10	
IMPORTANCE FACTOR	$I_w = 1.15$
HORIZONTAL WIND LOAD:	
	END INTERIOR
	0-15' 25.4 PSF 16.8 PSF
	15'-20' 27.1 PSF 17.9 PSF
	20'-25' 28.4 PSF 18.7 PSF

 - (2) SEISMIC***
 - SPECTRAL ACCELERATIONS

$V = S_d \leq I_w / R$
$S_s=0.147$
$S_1=0.057$
SITE CLASS
D
IMPORTANCE FACTOR
$I_e = 1.25$
DESIGN SPECTRAL RESPONSE
$S_d s = 0.157$
ONE SECOND PERIOD RESPONSE ACCEL.
$S_d1 = 0.091$
RESPONSE MODIFICATION COEFFICIENT
$R = 3.25$
SEISMIC DESIGN CATEGORY
B
SEISMIC FORCE
$V = 0.06 \times W$

* ALLOWABLE 1/3 STRESS INCREASE FOR SEISMIC LOADING

 - C. ALLOWABLE SOIL BEARING CAPACITY = 2500 PSF**

3. GENERAL:

 - THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT OF BOTH SITE AND BUILDING ELEMENTS. COORDINATE FIELD INFORMATION WITH ARCHITECTURAL PRIOR TO ANY CONSTRUCTION ACTIVITY .
 - SHOP DRAWINGS, IN HARD COPY FORM, SHALL BE FURNISHED AND REVIEWED BEFORE ANY FABRICATION OR ERECTION IS STARTED.
 - THE CONTRACTOR SHALL REVIEW AND APPROVE SHOP DRAWINGS PRIOR SUBMITTAL TO THE ARCHITECT FOR REVIEW. POORLY EXECUTED SHOP DRAWINGS WILL BE REJECTED AND REQUIRE RESUBMITTAL.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE SHORING FOR ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION. THE STRUCTURE SHOWING ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER FINAL CONFIGURATION.
 - THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL OPENINGS IN FLOOR, ROOFS AND BEAMS WITH THE INDIVIDUAL TRADES.
 - NOTCHING OR CUTTING ANY STRUCTURAL MEMBER IN THE FIELD IS PROHIBITED.
 - THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF FOUNDATION UNDER MECHANICAL AND ELECTRICAL EQUIPMENT AS REQUIRED. NO CO PADS SHALL BE LOCATED ON ROOF UNLESS SHOWN ON STRUCTURAL DRAWINGS.
 - REMOVAL OF FORMS SHALL BE IN ACCORDANCE WITH ACI 347. WHERE CONCRETE MUST SUPPORT SUPERIMPOSED LOADS PRIOR TO ATTAINING THE SPECIFIED DESIGN STRENGTH, RESHORE CONCRETE IN ACCORDANCE WITH ACI 347. RESHORING SHALL NOT BE REMOVED SOONER THAN 28 DAYS FROM THE DATE OF POUR OR UNTIL CONCRETE HAS ATTAINED THE SPECIFIED DESIGN STRENGTH.

4. MATERIALS:

 - A. CAST-IN-PLACE CONCRETE:**
 - (1) ALL CONCRETE SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL CONCRETE, ACI 310-10.
 - (2) ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER UNLESS NOTED OTHERWISE.
 - (3) NORMALWEIGHT CONCRETE:**
 - A. FC = 4000 PSI @ 28 DAYS (AIR ENTRAINED) - ALL EXPOSED EXTERIOR CONCRETE FLAT WORK. (I.E. SLABS, EQUIPMENT PADS, ETC.).
 - B. FC = 3000 PSI @ 28 DAYS - ALL INTERIOR CONCRETE (AIR ENTRAINED) IE FOOTINGS, PEDESTALS, STEM WALLS, ETC.)
 - C. FC = 4000 PSI @ 28 DAYS - ALL INTERIOR SLABS ON GRADE.
 - D. FC = 4000 PSI @ 28 DAYS (AIR ENTRAINED) - ALL WALLS.
 - (4) THE CONTRACTOR SHALL NOT CAST FOUNDATIONS, STEM WALLS OR RETAINING WALLS AGAINST EXCAVATED VERTICAL SIDE SURFACES WITHOUT PRIOR WRITTEN APPROVAL FROM ARCHITECT AND STRUCTURAL ENGINEER.
 - (5) FLYASH ADDITIVES MAY NOT EXCEED 20% OF THE CEMENTITIOUS MATERIAL.
 - (6) THE MAXIMUM WATER TO CEMENTITIOUS MATERIAL RATIO, BY WEIGHT, MAY NOT EXCEED 50%.
 - (7) THE OWNERS SPECIAL INSPECTOR SHALL MONITOR SAMPLING & TESTING PERFORMED BY THE CONTRACTOR'S TESTING AGENCY.
 - (8) MAXIMUM SLUMP FOR CONCRETE MIX DESIGN IS 4".
 - B. REINFORCING STEEL:**
 - (1) ALL REINFORCING STEEL SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR REINFORCEMENT CONCRETE (ACI 318) AND THE STANDARD MANUAL (ACI 315-99).
 - (2) ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 EXCEPT STIRRUPS, TIES AND FIELD-BENT BARS WHICH SHALL CONFORM TO ASTM A615 GRADE 40.
 - (3) ALL SLABS SHALL BE REINFORCED AS SHOWN ON THE DRAWINGS.
 - (4) WHEN LAPPED SPICES IN REINFORCING OCCUR, THE MINIMUM LAP SHALL BE MADE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS:
 - A. VERTICAL REINFORCING 30 BAR DIA. (18" MINIMUM)
 - B. HORIZONTAL REINFORCING 30 BAR DIA. (18" MINIMUM)
 - (5) ALL HORIZONTAL REINFORCING IN FOOTINGS, BEAMS, AND WALLS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AND LAP A MINIMUM OF 30 BAR DIAMETERS, (18 INCHES MINIMUM).
 - (6) CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
 - A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH...3"
 - B. CONCRETE EXPOSED TO EARTH OR WEATHER
 - 1. BARS LARGER THAN #5.....2"
 - 2. BARS NO. 5 OR SMALLER.....1 1/2"
 - (7) FORM TIES SHALL EITHER BE OF THE THREADED OR SNAP-OFF TYPE SO THAT NO METAL WILL BE LEFT WITHIN 1 INCH OF THE SURFACE OF THE WALL.
 - (8) BAR SUPPORTS AND SPACERS FOR REINFORCING SHALL BE PROVIDED IN ACCORDANCE WITH ACI 315-99. PROVIDED WITH 22 GA. SAND PLATES OR PRECAST BLOCKS SHALL BE CHAIRS FOR ALL REINFORCING OF CONCRETE IN CONTACT WITH GRADE. REINFORCING SHALL BE SECURED TIE TO SURFACE.
 - (9) REINFORCING SHALL NOT BE TACK WELDED OR WELDED IN ANY MANNER UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL PLANS. IF DRAWING REBAR TO BE WELDED, USE ASTM A706 REBAR.

C. STRUCTURAL AND MISCELLANEOUS STEEL:

- (1) ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
 - (2) ALL W-SHAPED MEMBERS SHALL CONFORM TO ASTM A992 (FY=50KSI), ALL CHANNELS, ANGLES, & PLATES SHALL BE ASTM A36 (FY=36KSI), ALL PIPE STEEL SHALL BE ASTM A501 (FY=36KSI).
 - (3) ALL COLD FORMED STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B, FY = 46 KSI).
 - (4) BOLTS SHALL CONFORM TO ASTM A325 TENSION CONTROL BOLTS UNLESS NOTED OTHERWISE, WITH SIZES AS SHOWN ON THE DRAWINGS. WHERE CLEARANCE WITHIN A CONNECTION DOES NOT PERMIT THE USE OF TENSION CONTROL BOLTS, STANDARD A325 BOLTS SHALL BE USED AND INSPECTED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
 - (5) ALL BOLTS SHALL BE TIGHTENED SO AS TO SHEAR THE SPLINE OFF THE BOLT.
 - (6) ANCHOR BOLTS EMBEDDED IN CONCRETE SHALL BE ASTM A307 BOLTS OR A36 THREADED BARS. PROVIDE PLAT WASHERS BETWEEN ALL NUTS AND BASEPLATES.
 - (7) ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE AWS STRUCTURAL WELDING CODE.
 - (8) ALL BOLT HOLES THAT ARE REQUIRED TO BE FIELD DRILLED SHALL BE DRILLED WITH A MAG DRILL. FLAME CUTTING OF HOLES OR ENLARGING OF UNFAIR HOLES WILL NOT BE ALLOWED.
 - (9) HEADED CONCRETE ANCHORS AND SHEAR CONNECTORS SHALL BE TYPE B, IN CONFORMANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE-STEEL". STRUCTURAL STEEL TO RECEIVE SHEAR CONNECTIONS SHALL BE FREE OF PLATE RYND. FPLY PER QUALIFICATION REQUIRED.
- D. STEEL JOISTS:
- (1) STEEL JOISTS SHALL BE MANUFACTURED BY A MEMBER OF SJI.
 - (2) STEEL JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE 2002 STEEL JOIST INSTITUTE SPECIFICATIONS.
 - (3) NO CONSTRUCTION LOADS OF ANY KIND SHALL BE PLACED ON UNBRIDGED JOISTS.
 - (4) WHERE COLUMNS ARE NOT FRAMED IN AT LEAST TWO DIRECTIONS WITH STRUCTURAL STEEL MEMBERS, JOISTS AT OR CLOSEST TO COLUMN LINES SHALL BE FIELD BOLTED TO ADD LATERAL STABILITY DURING CONSTRUCTION.
 - (5) PROVIDE BRIDGING IN ACCORDANCE WITH THE 42ND EDITION OF SJI STANDARD SPECIFICATIONS.

E. STEEL DECK:

- (1) ALL STEEL DECK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH STEEL DECK INSTITUTE SPECIFICATIONS.
- (2) SEE PLAN FOR STEEL DECK GAGE, FINISH AND CONNECTIONS.
- (3) PROVIDE A MINIMUM OF 1"12" BEARING FOR ALL STEEL DECKS.
- (4) ALL SPLICES AND LAPs SHALL BE A MINIMUM OF 2' OR MORE SPLICES AT SUPPORTS.
- (5) DECKING SHALL BE CONTINUOUS OVER TWO OR MORE SPANS UNLESS NOTED OTHERWISE ON THE PLANS.
- (6) POWER DRIVEN FASTENERS SHALL HAVE A MIN. 0.177 INCH SHAFT DIAMETER AND BE EQUIVALENT TO FLH1 ENP DECK FASTENERS.
- (7) CONDUIT PARALLEL TO FLOOR DECK IN CONCRETE TOPPING IS PROHIBITED.

F. LIGHTGAGE STRUCTURAL STEEL FRAMING (20 GAGE OR HEAVIER)

- (1) ALL LIGHTGAGE METAL FRAMING SHALL CONFORM TO AISI
"SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL
MEMBERS", 2007.
- (2) WALLS TO BE PROVIDED WITH MANUFACTURER'S STANDARD BRIDGING:
(EITHER WELDED 2 1/2" X 18 GA. STUD OR CLIPPED COLD-ROLLED
CHANNEL 1 1/2" X 18 GA. G). PROVIDE BRIDGING AT 4'-0" O.C. MAXIMUM.
- (3) PROVIDE ALL MISCELLANEOUS ACCESSORIES AND FOLLOW RECOMMENDED
PROCEDURES AS PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- (4) LIGHTGAGE STEEL FRAMING SHALL MEET THE MINIMUM PROPERTIES AS
SHOWN IN THE STEEL STUD SCHEDULE.
- (5) ALL TRACK SHALL BE DEEP LEG (11" FLANGE), 18 GA. MINIMUM. TRACK SHALL BE
ANCHORED TO SLAB WITH 1/2" DIA. X 3 1/2" EMBED EXPANDED SLEEVE OR
EPOXY ANCHORS AT 4'-0" O.C. UNLESS SHOWN OTHERWISE ON PLANS.

GENERAL FOUNDATION NOTES

- GENERAL:
- A. A SUBSURFACE SOIL INVESTIGATION HAS BEEN MADE BY WESTERN TECHNOLOGIES. A REPORT OF THAT INVESTIGATION DATED MAY 18, 2020 IS AVAILABLE FOR VIEWING AT THE OFFICE OF THE ARCHITECT. SOILS INFORMATION PROVIDED ON THIS SHEET IS ONLY A SUMMARY OF THAT REPORT.
- B. ADDITIONAL INFORMATION CONCERNING SPECIFIC SOIL CONDITIONS TO BE ENCOUNTERED IS AVAILABLE IN THE SOILS REPORT AND SHOULD BE REVIEWED.
2. FIELD OBSERVATION AND TESTS:
- A. THE OWNER WILL EMPLOY THE SERVICES OF A REGISTERED, LICENSED GEOTECHNICAL ENGINEER TO OBSERVE ALL CONTROLLED EARTHWORK AND SHALL PROVIDE CONTINUOUS ON-SITE OBSERVATION BY EXPERIENCED PERSONNEL DURING CONSTRUCTION OF CONTROLLED EARTHWORK. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER AT LEAST TWO WORKING DAYS IN ADVANCE OF ANY FIELD OPERATIONS OF THE CONTROLLED EARTHWORK.
- B. TESTS OF MATERIALS SHALL BE MADE AT THE FOLLOWING RATES:
- (1) ONE FIELD DENSITY TEST PER EACH 250 SQUARE YARDS OF COMPACTED SUBGRADE PRIOR TO PLACING STRUCTURAL FILL WITH A MINIMUM OF 3 TESTS.
- (2) ONE FIELD DENSITY TEST PER EACH 150 CUBIC YARDS OF STRUCTURAL FILL PLACED OR EACH HORIZONTAL LAYER OF STRUCTURAL FILL, WHICHEVER IS GREATER.
- (3) ONE MOISTURE-DENSITY CURVE FOR EACH TYPE OF MATERIAL USED, AS INDICATED BY SIEVE ANALYSIS AND PLASTICITY INDEX.
- (4) FOUNDATION EXCAVATIONS SHALL BE OBSERVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING AND CONCRETE.
- C. THE GEOTECHNICAL ENGINEER SHALL SUBMIT THE RESULTS OF ALL REQUIRED TESTS.
3. CLEARING AND GRUBBING:
- A. REMOVE ALL BRUSH, RUBBISH, GRASS, AND GRASS ROOTS FROM THE CONSTRUCTION AREA.
- B. REMOVE STUMPS, MATTED ROOTS AND ROOTS LARGER THAN 2 INCHES IN DIAMETER WITHIN 12 INCHES OF THE SURFACE OF AREAS ON WHICH FILL AND/ OR FOOTINGS ARE TO BE CONSTRUCTED
- C. REMOVE ALL TOPSOIL FROM THE CONSTRUCTION AREA. THIS MATERIAL SHALL NOT BE USED AS FILL MATERIAL, BUT MAY BE STOCKPILED AND LATER USED IN THE TOP 6 INCHES OF FILL OUTSIDE THE BUILDING PAD.
4. SITE, SUBFLOOR AND BEARING SURFACE PREPARATION:
- A. A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT TO CONFIRM COMPLETE EXCAVATION OF ANY UNCONTROLLED FILL OR SOFT AREAS.
- B. BUILDING PADS SHOULD BE OVEREXCAVATED TO ALLOW THE PLACEMENT OF A MINIMUM 30 INCHES OF NON-EXPANSIVE STRUCTURAL FILL BENEATH FOUNDATIONS. THE OVER-EXCAVATION SHALL NOT EXTEND Laterally BEYOND THE EDGE OF THE FOUNDATIONS.
- C. ON-SITE SOILS ARE GENERALLY SUITABLE FOR USE AS STRUCTURAL FILL MATERIAL. SEE SOIL INVESTIGATION REPORT FOR RECOMMENDATIONS.
- D. SCARIFY ALL EXPOSED SUBGRADE SOILS TO A DEPTH OF 8 INCHES, MOISTEN TO 0 TO 4% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACT TO THE DENSITY SPECIFIED HEREINAFTER PRIOR TO PLACEMENT OF STRUCTURAL FILL.
- E. PLACE ALL STRUCTURAL FILL IN APPROXIMATELY HORIZONTAL LAYERS NOT GREATER THAN EIGHT (8) INCHES IN THICKNESS, MOISTEN TO OPTIMUM MOISTURE CONTENT (PLUS/MINUS 3%) AND COMPACT TO DENSITY SPECIFIED HEREINAFTER.
5. STRUCTURAL FILL REQUIREMENTS:
- A. GRADATION (ASTM C136):
- | SIEVE SIZE | PERCENT PASSING BY WEIGHT |
|------------|---------------------------|
| 3/4" | 70-100 |
| 4" | 85-100 |
| 6" | 100 |
| NO. 4 | 50-100 |
| NO. 200 | 30 (MAX) |
- B. MAXIMUM EXPANSIVE POTENTIAL = 1.5%.
- C. MATERIAL LARGER THAN 4 INCHES SHALL NOT BE PLACED IN THE STRUCTURAL FILL.
- D. NO BRUSH, SOD, FROZEN MATERIAL OR OTHER UNSUITABLE MATERIAL SHALL BE PLACED IN THE STRUCTURAL FILL. MATERIAL SHALL BE PLACED IN SUCH A MANNER AS TO RESULT IN A UNIFORMLY COMPACTED FILL.
- E. PLACE ALL STRUCTURAL FILL IN APPROXIMATELY HORIZONTAL LAYERS NOT GREATER THAN TEN (10) INCHES IN THICKNESS, MOISTEN TO OPTIMUM MOISTURE CONTENT (PLUS/MINUS 3%) AND COMPACT TO DENSITY SPECIFIED HEREINAFTER.
6. COMPACTION REQUIREMENTS:
- A. STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING PERCENTAGES OF THE ASTM D1557 MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT (PLUS/MINUS 3%).
- | MATERIAL | MINIMUM PERCENT COMPACTION |
|--------------------------------------|----------------------------|
| STRUCTURAL FILL IN THE BUILDING AREA | 95 |
| SUBBASE FOR SLAB SUPPORT | 93 TO 97 |
| SUBGRADE BELOW STRUCTURAL FILL | 93 TO 97 |
| MISCELLANEOUS BACKFILL | 90 |

LIGHTGAGE SCHEDULE

DEPTH	GAGE	AREA IN	Ix IN4	Sx IN3	Fy KSI
C 4"	20	0.275	0.692	0.346	33
C 4"	18	0.357	0.892	0.446	33
C 6"	18	0.447	2.316	0.772	33
C 6"	18	0.537	4.634	1.159	33
T 4"	20	0.225	0.549	0.346	33
T 4"	18	0.315	0.811	0.390	33
T 6"	18	0.405	2.072	0.673	33
T 8"	18	0.496	4.144	1.015	33

"C" INDICATES STUD, 1 5/8" FLANGES

"T" INDICATES DEEP LEG TRACK, 1 1/2" FLANGES

fbt | architects

MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110

PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

CIVIL

Bohannon Huston
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

STRUCTURAL

Walla Engineering Ltd
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p 505.243.9287

M/E/P/FP

Bridgers and Paxton
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p 505.883.4111 f 505.888.1436

INTERIORS

Studio M
6501 Americas Pkwy NE Ste. 301
Albuquerque, NM 87110
p_505.243.9287

SITE

Groundwork Studio
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126

FOOD SERVICE

Standard Kitchen Supply
2405 Candelaria Rd. NE,
Albuquerque, NM 87107
p_505.341.1054



Dzilth-Na-O-Dith-Hle - New Dormitory Building Construction Documents

35 Road 7585, Bloomfield, NM
87413

OCTOBER 5, 2020

MARK	DATE	DESCRIPTION
	30 OCT 2020	DIMENSION CLARIFICATIONS

ISSUE:	
DATE:	
PROJECT NO:	751
CAD DWG FILE:	
DRAWN BY:	KV
CHECKED BY:	MJW

SHEET TITLE

GENERAL STRUCTURAL NOTES

PREVIOUSLY ISSUED
SEE REVISION CLOUDS
FOR UPDATES

S-001

SCHEDULE OF STRUCTURAL QUALITY ASSURANCE INSPECTIONS

1. QUALITY ASSURANCE INSPECTIONS / TESTING - "QUALITY ASSURANCE INSPECTION" SHALL NOT RELIEVE THE OWNER OR THEIR AGENT FROM REQUESTING THE JURISDICTION BUILDING DEPARTMENT INSPECTIONS REQUIRED BY SECTION 40 OF THE NFPA-5000.
2. REPORTING FOR QUALITY ASSURANCE INSPECTION -
 a. QUALITY ASSURANCE INSPECTION AND TESTING REPORTS SHALL BE COMPLETED AND DISTRIBUTED AT THE COMPLETION OF EACH TASK IF A TASK IS LONGER THAN (3) DAYS. PROVIDE REPORTS FOR EACH DAY. PROVIDE COPIES OF REPORTS TO: CONTRACTOR, OWNER, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. QUALITY ASSURANCE INSPECTOR TO KEEP A NON-COMPLIANCE LOG OF ALL DEFICIENCIES INSPECTED NOT MEETING APPROVED CONSTRUCTION DOCUMENTS AND WHEN / HOW RESOLVED.
3. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING CONSTRUCTION DOCUMENTS FOR ADDITIONAL, NON-STRUCTURAL, QUALITY ASSURANCE INSPECTION ITEMS.

IN ACCORDANCE WITH NFPA 5000 CHAPTER 40, THE FOLLOWING TYPES OF WORK REQUIRE QUALITY ASSURANCE INSPECTIONS AND TESTING:

QUALITY ASSURANCE INSPECTION AND VERIFICATION OF SOILS				
SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	NFPA 5000
Y	1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-----	X	40.3.5.2
Y	2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-----	X	40.3.5.1
Y	3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	-----	X	40.3.5.2
Y	4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	-----	40.3.5.2
Y	5. PRIOR TO PLACEMENT OF CONTROLLED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-----	X	40.3.5.1

QUALITY ASSURANCE INSPECTION AND VERIFICATION OF CONCRETE CONSTRUCTION

SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	NFPA-5000	REFERENCE D STANDARD
Y	1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT.	-----	X	40.3.7	ACI 318: CH. 20, 26.5.2, 26.3, 26.6.1-26.6.3
N	2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706. b. INSPECT SINGLE-PASS FILLET WELDS. MAXIMUM 1/8" AND c. INSPECT ALL OTHER WELDS.	-----	X	40.3.7	AWS D1.4 ACI 318: 26.6.4
Y	3. INSPECT ANCHORS CAST IN CONCRETE.	-----	X	40.3.7	ACI 318: 17.8.2
Y	4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	X		-----	ACI 318: 17.8.2.4
			X		ACI 318: 17.8.2
Y	5. VERIFYING USE OF REQUIRED DESIGN MIX.	-----	X	40.3.7	ACI 318: CH. 19, 26.4.3, 26.4.4
Y	6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TEST, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-----	40.3.7	ASTM C172 ASTM C31 ACI 318: 26.4, 26.12
Y	7. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-----	40.3.7	ACI 318: 26.5
Y	8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-----	X	40.3.7	ACI 318: 26.5.3 -26.5.5
N	9. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-----	X	-----	ACI 318: 26.8
N	10. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-----	X	40.3.7	ACI 318: 26.11.2
Y	11. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-----	X	40.3.7	ACI 318: 26.11.1, 26(b)

QUALITY ASSURANCE INSPECTION AND VERIFICATION OF STEEL CONSTRUCTION

SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	NFPA-5000 SECTION 40.3.10	REFERENCED STANDARD
	1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:				
Y	a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	----	X	----	APPLICABLE ASTM MATERIAL SPECIFICATIONS, AISC 360 SECTION A3.3
Y	b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	----	X	----	----
	2. INSPECTION OF HIGH-STRENGTH BOLTING:				
Y	a. SNUG-TIGHT JOINTS	----	X		
Y	b. PRETENSIONED AND SLIP CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION	----	X	----	AISC 360, SECTION M2.5
Y	c. PRETENSIONED AND SLIP CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION	X	----		
	3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:				
Y	a. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360	----	X		AISC 360 SECTION M5.5
Y	b. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	----	X		APPLICABLE ASTM MATERIAL STANDARDS
Y	c. MANUFACTURERS CERTIFIED TEST REPORTS	----	X		
	4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
Y	a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	----	----	----	AISC 360, SECTION A3.5
Y	b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	----	----	----	----
	5. INSPECTION OF WELDING:				
Y	a. STRUCTURAL STEEL:				
Y	1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	X	----		
N	2) MULTIPASS FILLET WELDS.	X	----		
N	3) SINGLE-PASS FILLET WELDS > 5/16"	X	----	----	AWS D1.1
Y	4) PLUG & SLOT WELDS	X	----		
Y	5) SINGLE-PASS FILLET WELDS < 5/16"	----	X		
N	6) ROOF DECK WELDS.	----	X	----	AWS D1.3
N	b. REINFORCING STEEL:	----	----		
N	1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	----	X		
N	2) REINFORCING STEEL- RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.	X	----	----	AWS D1.4 ACI 318 3.5.2
Y	3) SHEAR REINFORCEMENT.	X	----		
Y	4) OTHER REINFORCING STEEL.	----	X		
	6. INSPECTION OF STEEL FRAME JOINT DETAIL FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:				
N	a. DETAILS SUCH AS BRACING AND STIFFENING.	----	X		
Y	b. MEMBER LOCATIONS.	----	X	----	----
Y	c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	----	X		

QUALITY ASSURANCE INSPECTION AND VERIFICATION OF STEEL DECK CONSTRUCTION

SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA
		CONTINUOUSLY DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	NFPA-5000 SECTION 40.3.10
Y	VERIFY DECK MATERIALS AND MILL CERTIFICATIONS	----	X	SDI-QA/QC
Y	VERIFY FIELD WELDING OF DECK	----	X	AWS D13, SDI C SDI NC, SDI RD
Y	VERIFY MECHANICAL FASTENERS	----		SDI C, SDI NC, SDI RD
Y	VERIFY STEEL DECK INSTALLATION IN ACCORDANCE WITH CONSTRUCTION DOCUMENTS			SDI C, SDI NC, SDI RD

REQUIRED QUALITY ASSURANCE INSPECTION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	NFPA-5000 TABLE
	1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS.			
Y	a. END CONNECTIONS - WELDED OR BOLTED.	-----	X	40.3.10
	b. BRIDGING - HORIZONTAL OR DIAGONAL.	-----		40.3.10
Y	1. VISUALLY INSPECT ALL FIELD WELDS OF A MINIMUM OF 5 PERCENT OF THE JOISTS, RANDOMLY SELECTED.	-----	X	40.3.10

QUALITY ASSURANCE INSPECTION OF SEISMIC FORCE RESISTING SYSTEMS
(REQUIRED WHEN SDC = C, D, E OR F) AND
DESIGNATED SEISMIC SYSTEMS (REQUIRED WHEN SDC=D,E OR F)

SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA NPSA-5000 SECTION
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	
	1. STRUCTURAL STEEL:			
Y	a. STRUCTURAL WELDING REQUIRED BY AISC 341	X	-----	44.2.2
	2. STRUCTURAL WOOD:			
Y	a. FIELD GLUING OPERATIONS OF ELEMENTS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	X	-----	40.3.11
Y	b. NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-FORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, AND HOLD DOWNS.	-----	X	40.3.11
	3. COLD - FORMED STEEL FRAMING:			
Y	a. WELDING OF ELEMENTS IN SEISMIC-FORCE RESISTANCE	-----	X	44.8.1
	b. SCREW ATTACHMENTS, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-FORCE-RESISTING SYSTEM.	-----	X	44.8.1
Y	4. ANCHORAGE.	-----	X	41.4

QUALITY ASSURANCE INSPECTION AND VERIFICATION OF COLD FORMED METAL FRAMING

SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	
Y	1. SEATING OF STUDS IN TRACK.	-----	X	-----
Y	2. WELDING OF ELEMENTS.	-----	X	D6.6
Y	3. SCREW ATTACHMENTS, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS.	-----	X	D6.7
Y	4. STEEL STUD BRIDGING SPACING AND END ATTACHMENT.	-----	X	D6.5
Y	5. WELDED CONNECTIONS ARE TOUCHED UP WITH PAINT.	-----	X	D6.6
Y	6. VERIFY STRUCTURAL STUD SIZE, DEPTH, AND GAGE.	-----	X	D6.5

CONSULTANT

CIVIL
Bohannon Huston
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

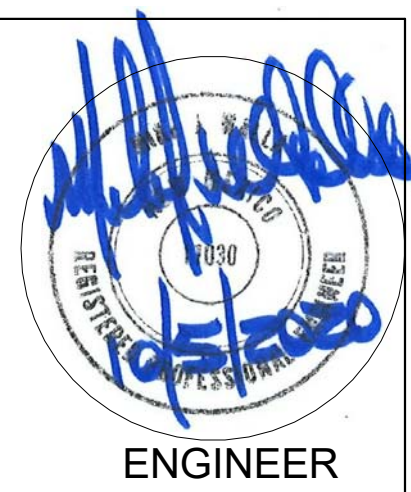
STRUCTURAL
Walla Engineering Ltd
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p 505.243.9287

M/E/P/FP
Bridgers and Paxton
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111 f_505.888.1436

INTERIORS
Studio M
 6501 Americas Pkwy NE Ste. 301
 Albuquerque, NM 87110
 p 505.243.9287

SITE
Groundwork Studio
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126

FOOD SERVICE
Standard Kitchen Supply
2405 Candelaria Rd. NE,
Albuquerque, NM 87107
p_505.341.1054



**Dzilh-Na-O-Dith-Hle -
New Dormitory Building
Construction Documents**

35 Road 7585, Bloomfield, NM
87413

OCTOBER 5, 2020

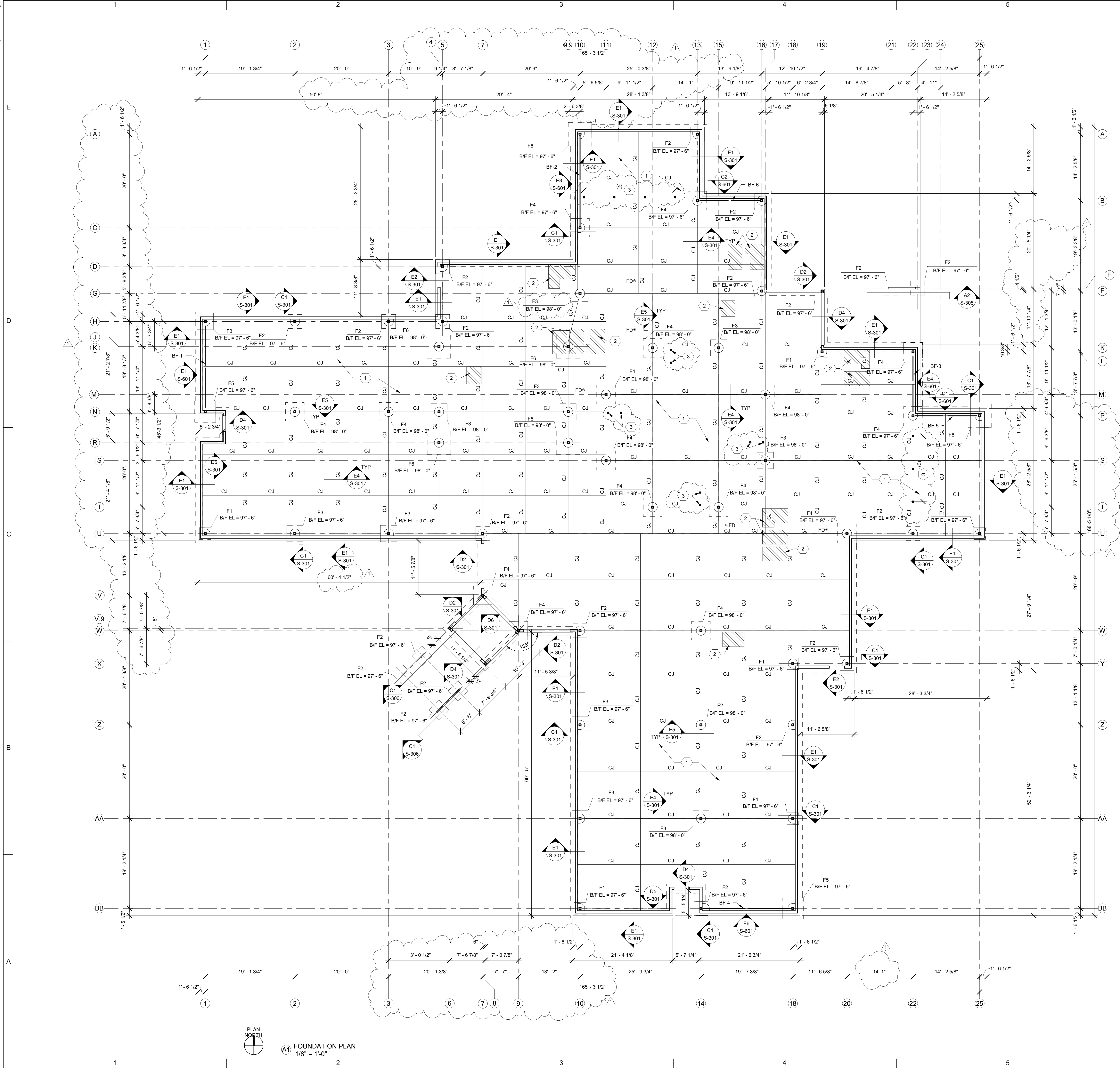
MARK	DATE	DESCRIPTION
ISSUE:		
DATE:		
PROJECT NO:		751
CAD DWG FILE:		
DRAWN BY:		KV
CHECKED BY:		MJW

SHEET TITLE

STRUCTURAL QUALITY ASSURANCE INSPECTIONS

PREVIOUSLY ISSUED
SEE REVISION CLOUDS
FOR UPDATES

S-002



GENERAL NOTES

- A. ALL PERIMETER DIMENSIONS ARE TO FACE OF CONCRETE STEMWALL, UNLESS NOTED OTHERWISE.
- B. CJ INDICATES CONCRETE SLAB CONTROL JOINT, SEE DETAIL E4/S-301.
- C. B/F EL = ###'-#'' INDICATES BOTTOM OF FOOTING ELEVATION.
- D. BF-# INDICATES BRACED FRAME LOCATION, SEE SHEET S-801 FOR BRACED FRAME ELEVATIONS AND DETAILS.
- F. FD ☉ INDICATES FLOOR DRAIN, SEE ARCHITECTURAL AND PLUMBING FOR LOCATION. SLOPE TOP OF SLAB TO DRAIN.

KEYED NOTES

- 1 5" THICK CONCRETE SLAB W/ #4 @ 18" OC (CONTAINED IN SLAB) OVER 4" AGGREGATE BASE COURSE W/ VERTICAL FLOOR BARRIER PER ARCH OVER COMPACTED SUBGRADE. FINISH FLOOR EL = 100'-0" - MSLE - SEE CIVIL.
- 2 RECESS TOP OF SLAB 2". SEE ARCHITECTURAL FOR EXTENTS. MAINTAIN MINIMUM 5" THICK SLAB PER C2/S-301.
- 3 HSS3x3x1/4 PARTITION WALL POSTS @ 8'-0" OC MAX. AND AT EACH END OF WALL. COORDINATE WALL LOCATION WITH ARCHITECTURAL. SEE C4/S-301 FOR POST ATTACHMENT.

ISOLATED FOOTING SCHEDULE				
Mark	Length	Width	DEPTH	REINFORCING
F1	2' - 6"	2' - 6"	1' - 0"	(4) #4 EACH WAY
F2	3' - 0"	3' - 0"	1' - 0"	(4) #4 EACH WAY
F3	3' - 6"	3' - 6"	1' - 0"	(5) #4 EACH WAY
F4	4' - 0"	4' - 0"	1' - 0"	(6) #4 EACH WAY
F5	4' - 6"	4' - 6"	1' - 0"	(6) #5 EACH WAY
F6	5' - 0"	5' - 0"	1' - 0"	(5) #5 EACH WAY

fbt | architects

MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110

PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

CIVIL
Bohannon Huston
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

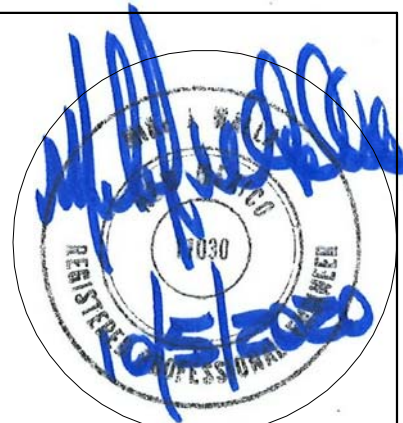
STRUCTURAL
Walla Engineering Ltd
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p 505.243.9287

M/E/P/FP
Bridgers and Paxton
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p 505.883.4111 f 505.888.1436

INTERIORS
Studio M
6501 Americas Pkwy NE Ste. 301
Albuquerque, NM 87110
p_505.243.9287

SITE
Groundwork Studio
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126

FOOD SERVICE
Standard Kitchen Supply
 2405 Candelaria Rd. NE,
 Albuquerque, NM 87107
 p_505.341.1054



ENGINEER

Dzilh-Na-O-Dith-Hle - New Dormitory Building Construction Documents

35 Road 7585, Bloomfield, NM
87413

OCTOBER 5, 2020

MARK	DATE	DESCRIPTION
1	30 OCT 2020	DIMENSION CLARIFICATIONS

ISSUE

DATE: _____

PROJECT NO: _____

CAD DWG FILE

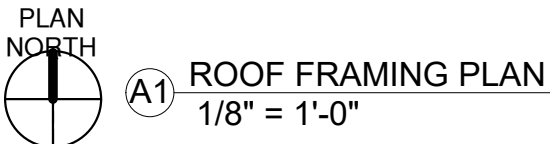
DRAWN BY: _____

SHEET TITLE

FOUNDATION PLAN

PREVIOUSLY ISSUED
SEE REVISION CLOUDS
FOR UPDATES

S-101



1. 1 1/2" TYPE "B", 20 GA PAINTED METAL DECK WITH NESTABLE SIDELAPS. ATTACH DECK TO SUPPORTS PERPENDICULAR TO RISBS WITH (4) 5/8" DIA PUDDLE WELDS @ 12" ON CENTER. ATTACH SIDELAPS TO RISBS WITH (4) 5/8" DIA PUDDLE WELDS @ 12" ON CENTER ATTACH SIDELAPS WITH #10 TEK SCREWS @ 12" OC.

2. 1.1x11x7/64 HORIZONTAL BRIDGING EQUALLY SPACED AS SHOWN WELD TO TOP AND BOTTOM CHORDS OF JOISTS.

3. 3" CONCRETE SLAB W/ 6w6-w2-1w2-1 W/F OVER 2" TYPE "UL" 20 GA GALVANIZED COMPOSITE DECK (5" TOTAL THICKNESS) - 2 SPAN MIN ATTACH DECK W/ (4) 5/8" DIA PUDDLE WELDS @ 6" PER 3" WIDE SHEET; AND TO SUPPORTS PARALLEL TO RISBS WITH (4) 5/8" DIA PUDDLE WELDS @ 12" ON CENTER. SEE CIVIL S&W/ H&E ELEVATION 114-4' UNLESS NOTED OTHERWISE. MS&H 1" SEE CIVIL S&W/ H&E 1" WIDE X 1" DEEP JOINTS AT 12" OC MAX EACH WAY.

4. 3" TYPE "N", 20 GA PAINTED METAL DECK WITH NESTABLE SIDELAPS. ATTACH DECK TO SUPPORTS PERPENDICULAR TO RISBS WITH (4) 5/8" DIA PUDDLE WELDS @ 12" ON CENTER AND TO SUPPORTS PARALLEL TO RISBS WITH (4) 5/8" DIA PUDDLE WELDS @ 12" ON CENTER ATTACH SIDELAPS WITH #10 TEK SCREWS @ 12" OC.

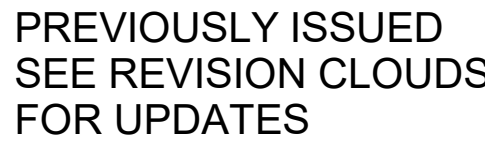
5. 3" TYPE "N", 18 GA PAINTED METAL DECK WITH NESTABLE SIDELAPS. ATTACH DECK TO SUPPORTS PERPENDICULAR TO RISBS WITH (4) 5/8" DIA PUDDLE WELDS AND WASHERS @ 8" OC PER 24" WIDE SHEET AND TO SUPPORTS PARALLEL TO RISBS WITH #10 X 1 1/2" WOOD SCREWS AND WASHERS @ 8" OC ATTACH SIDELAPS WITH #10 TEK SCREWS @ 12" OC.

6. BRACED WALL LOCATION WITH 4"x14 GA X-STRAP EXTERIOR FACE OF WALL. SEE PENINSULAR ROOF FRAMING PLAN FOR EXTENT OF BRACING. SEE A115-509 FOR DETAILS.



School Information

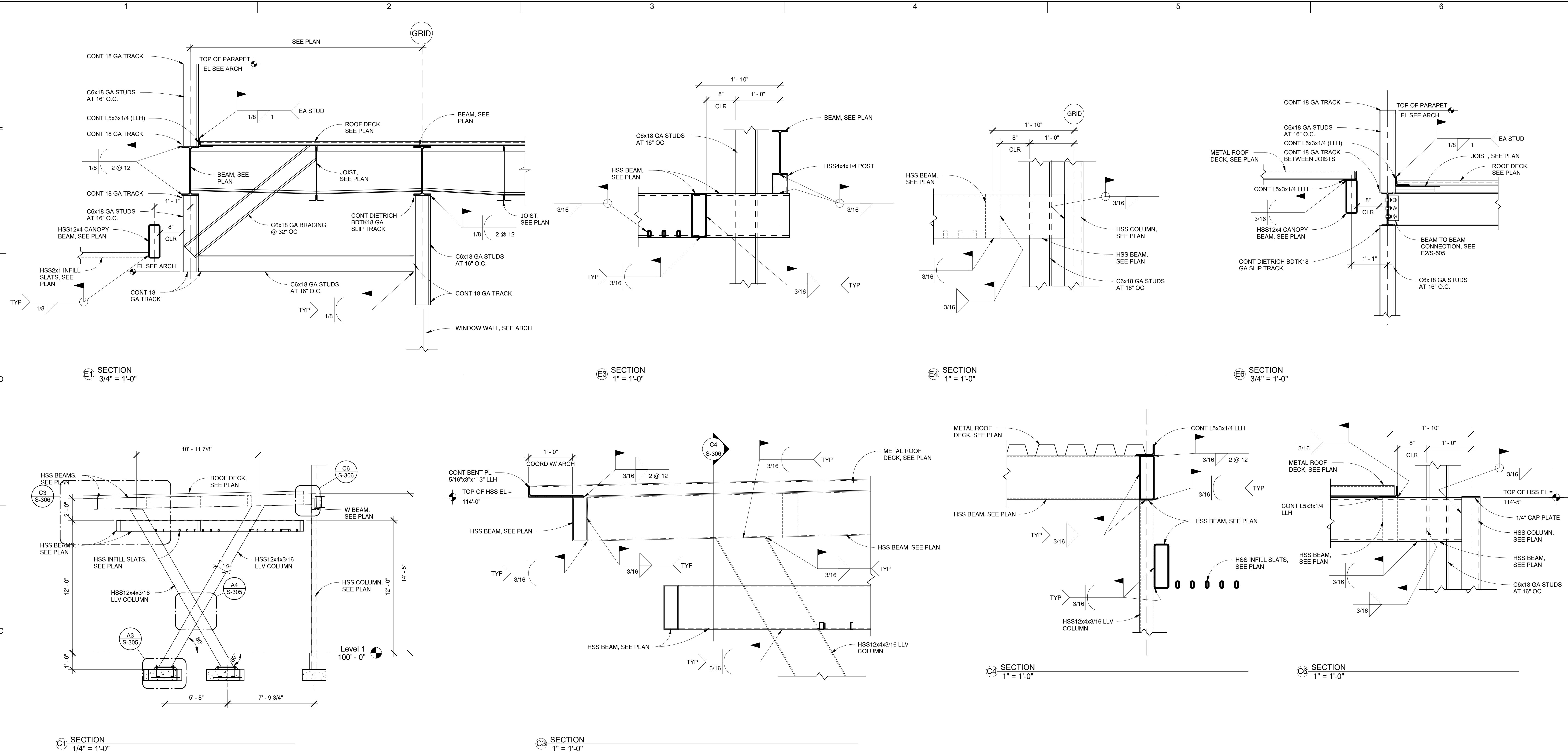
S-301

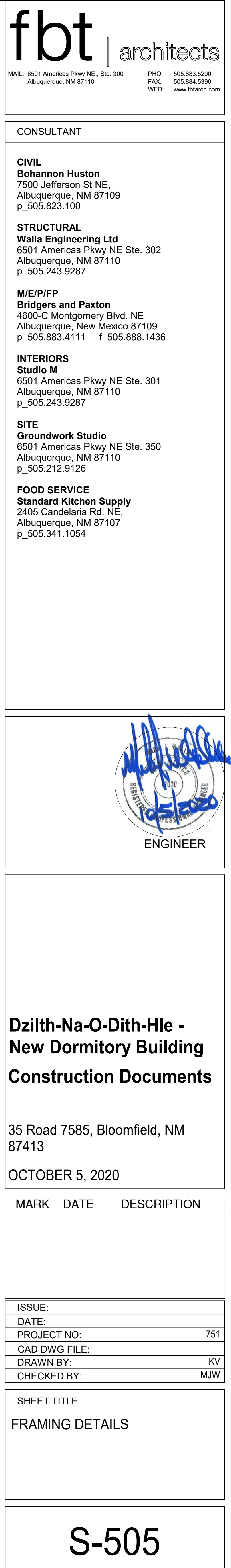


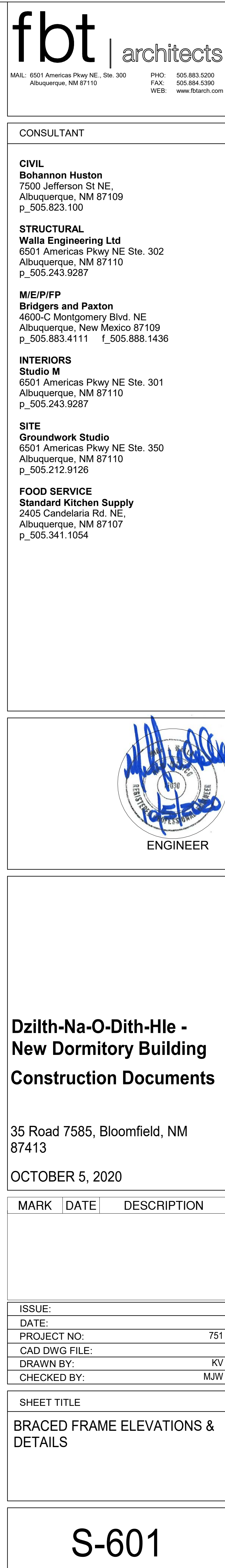
ISSUE:	
DATE:	
PROJECT NO:	751
CAD DWG FILE:	
DRAWN BY:	KV
CHECKED BY:	MJW

S-305






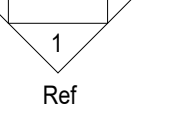
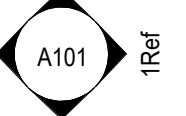
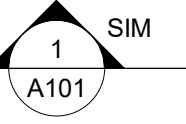








GENERAL NOTES

- A. CONTRACTOR SHALL PERFORM DAILY CLEANUP WHEN FINISH GRADE WORK IS BEING PERFORMED.
- B. SEE ENLARGED PLANS FOR CLASSROOM LAYOUTS, CASEWORK, ETC.
- C. SEE ROOM MATERIALS LEGEND ON ID SHEETS FOR FLOOR, BASE, WALL AND CEILING MATERIAL INFORMATION.
- D. PROVIDE WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES, AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.
- E. SEE ANSI GUIDELINES FOR INFORMATION REGARDING ACCESSIBILITY REQUIREMENTS.
- F. PROVIDE SEALANT AT INTERSECTIONS OF ALL DISSIMILAR MATERIALS.
- G. COORDINATE ALL PLUMBING FIXTURES WITH THE PLUMBING DRAWINGS. IN CASE OF ANY DISCREPANCY, NOTIFY ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN OF INSTALLATION.
- H. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.
- I. FINISH AND INSTALL 5/8" AUST RESISTANT GYP. BOARD AT 0-9" AFF AT ALL CORRIDOR AND VESTIBULE WALL LOCATIONS.

SYMBOL LEGEND

- | | |
|--|---|
|  | DOOR TYPE
(FOR INFORMATION SEE SHEET A-601) |
|  | BUILDING ELEVATION |
|  | INTERIOR ELEVATION |
|  | BUILDING/WALL SECTION |
|  | STRUCTURAL GRID |
|  | WINDOW TYPE
(FOR INFORMATION SEE SHEET A-603) |
|  | PARTITION TYPE
(FOR INFORMATION SEE SHEET A-601) |
|  | FIRE EXTINGUISHER |

KEYED NOTES

- 001 EXPOSED STEEL COLUMN, PAINT. SEE STRUCTURAL.
- 002 AIR DISTRIBUTION SYSTEM ENCLOSED IN PLASTIC LAMINATE CASEWORK. SEE
- 003 ENLARGED PLANS AND ELEVATIONS. SEE MECHANICAL.
- 004 CASING, UPPER AND LOWER, SEE MECHANICAL DRAWINGS.
- 005 PLANS AND ELEVATIONS. PROVIDE SLOD BLOCKING IN WALL AS REQUIRED.
- 006 DASHED FURNISHINGS NOT IN CONTRACT.
- 007 DASHED LINE INDICATES CANOPY / SUNSHADE ABOVE. SEE BUILDING AND WALL
- 008 SECTIONS.
- 009 5/4" HIGH WALL, 6" STEEL STUDS AT 16" OC WITH 1/4" TYPE GYB BOARD ON ALL
- 010 EXPOSED SIDES. TAPE TEXTURE AND PAINT. 5/8" TYPE HARDWOOD CAP. SAND SPRO
- 011 SIZES AND RADIIUS ALL EXPOSED EDGES 1/4" FINISH AND WOOD SPECIES TO
- 012 MATCH EXISTING.
- 013 POWER ACTUATED DOOR OPENER SWITCH BOARD. COORDINATE WIRING RUN
- 014 THROUGH DOOR FRAME. SEE HARDWARE SCHEDULE AND COORDINATE
- 015 WITH ELECTRICAL REQUIREMENTS. PROVIDE METALLIC INSTANT PNEUMATIC
- 016 CONTROL BOX FOR DOOR OPERATOR ABOVE CEILING. MOUNT SWITCH PER ANSI
- 017 STANDARDS.
- 018 ROOF ACCESS LADDER AND HATCH. SEE ROOF DETAILS A-141.
- 019 ROOF ACCESS TO SIGNAGE TO REACH. NO SMOKE/VAPOR PENETRANT/25 FEET.
- 020 RECYCLE PLASTIC BIN. OWNER PROVIDED. OWNER PROVIDED.
- 021 RECYCLE PAPER BIN. OWNER PROVIDED. OWNER PROVIDED.
- 022 RECYCLE/TRASH COMBIO CONTAINER. OWNER PROVIDED.
- 023 WALL MOUNTED SINK. SEE PLUMBING.
- 024 OWNER FURNISHED REFRIGERATOR. SEE PLUMBING AND ELECTRICAL FOR
- 025 WIRE REQUIREMENTS.
- 026 VIDEO DOOR PHONE. SEE ELECTRICAL AND TECHNOLOGY DRAWINGS.



A5 NO SMOKING SIGN
3/4" = 1'-0"

CONSULTANT

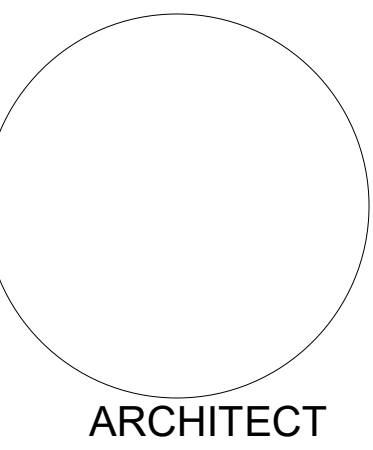
CIVIL
Bohannon Huston
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

STRUCTURAL
Walla Engineering Ltd
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

M/E/P/FP
Bridgers and Paxton
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111 f_505.888.1436

INTERIORS
Studio M
 6501 Americas Pkwy NE Ste. 301
 Albuquerque, NM 87110
 p_505.243.9287

SITE
Groundwork Studio
 6501 Americas Pkwy NE Ste. 350
 Albuquerque, NM 87110
 p_505.212.9126



Dzilh-Na-O-Dith-Hle - New Dormitory Building

PRICING SET

35 Road 7585, Bloomfield, NM
87413

NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
<hr/>		
ISSUE:		
DATE:		
PROJECT NO:		751
CAD DWG FILE:		
DRAWN BY:	Author	
CHECKED BY:	Checker	

SHEET TITLE


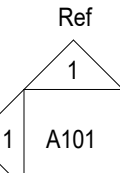
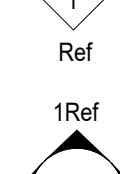
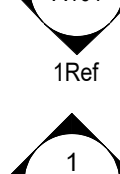





FLOOR PLAN

A-101

GENERAL NOTES

- A. ALL DIMENSIONS ARE TO FACE OF STEEL STUDS OR MASONRY, UNLESS NOTED OTHERWISE.
- B. REFER TO ENLARGED PLAN FOR ADDITIONAL DIMENSIONS & DETAILED SPACE LAYOUTS.
- C. SEE SITE PLAN FOR BUILDING LOCATION LAYOUT.
- D. SEE PARTITION DETAILS SHEET A-501 FOR PARTITION INFORMATION.
- E. SEE ANSI GUIDELINES FOR INFORMATION REGARDING ACCESSIBILITY REQUIREMENTS.
- F. SEE FLOOR PLANS, REFLECTED CEILING PLANS, AND ID SHEETS FOR FLOOR, WALL AND CEILING INFORMATION.
- H. COLUMN GRIDS "T" AND "O" ARE NOT USED.
- I. FURNISH AND INSTALL 5/8" FIREPROOF UH TYPE "1" GYP. BOARD TO 6" @ 6" F.F. AT ALL HALLWAY AND VESTIBULE WALL LOCATIONS.

SYMBOL LEGEND

- | | |
|---|--|
| 







 | <p>DOOR TYPE
(FOR INFORMATION SEE SHEET A-601)</p>
<p>BUILDING ELEVATION</p>
<p>INTERIOR ELEVATION</p>
<p>BUILDING/ WALL SECTION</p>
<p>STRUCTURAL GRID</p>
<p>WINDOW TYPE
(FOR INFORMATION SEE SHEET A-603)</p>
<p>PARTITION TYPE
(FOR INFORMATION SEE SHEET A-601)</p>
<p>FIRE EXTINGUISHER</p> |
|---|--|

ARCHITECT

**Dzilh-Na-O-Dith-Hle -
New Dormitory
Building**

PRICING SET

35 Road 7585, Bloomfield,
NM 87413

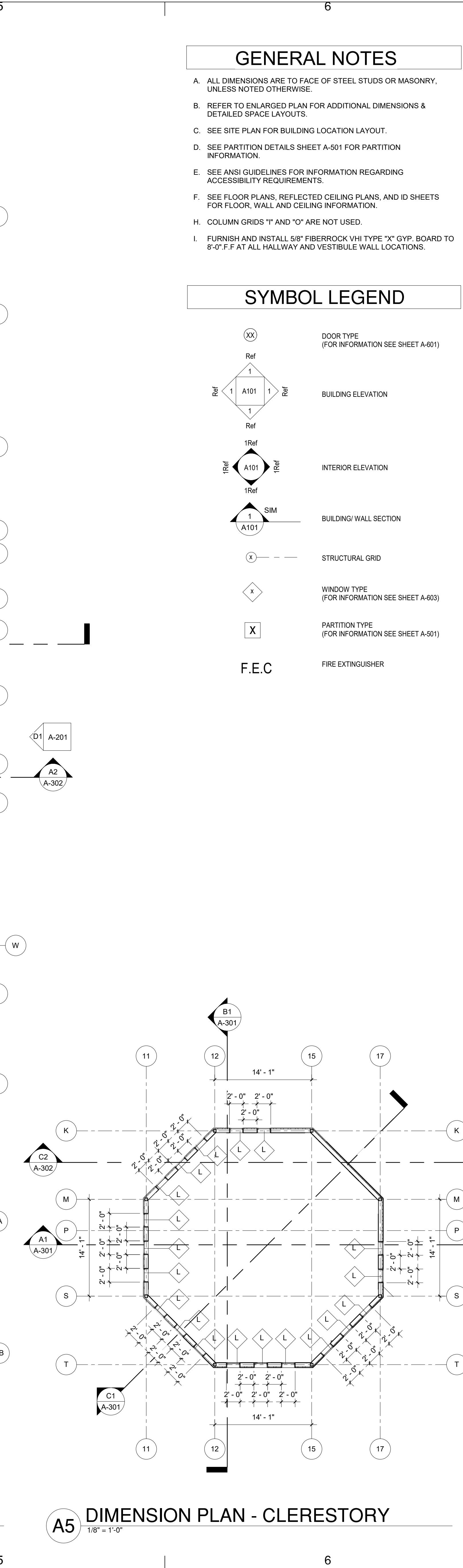
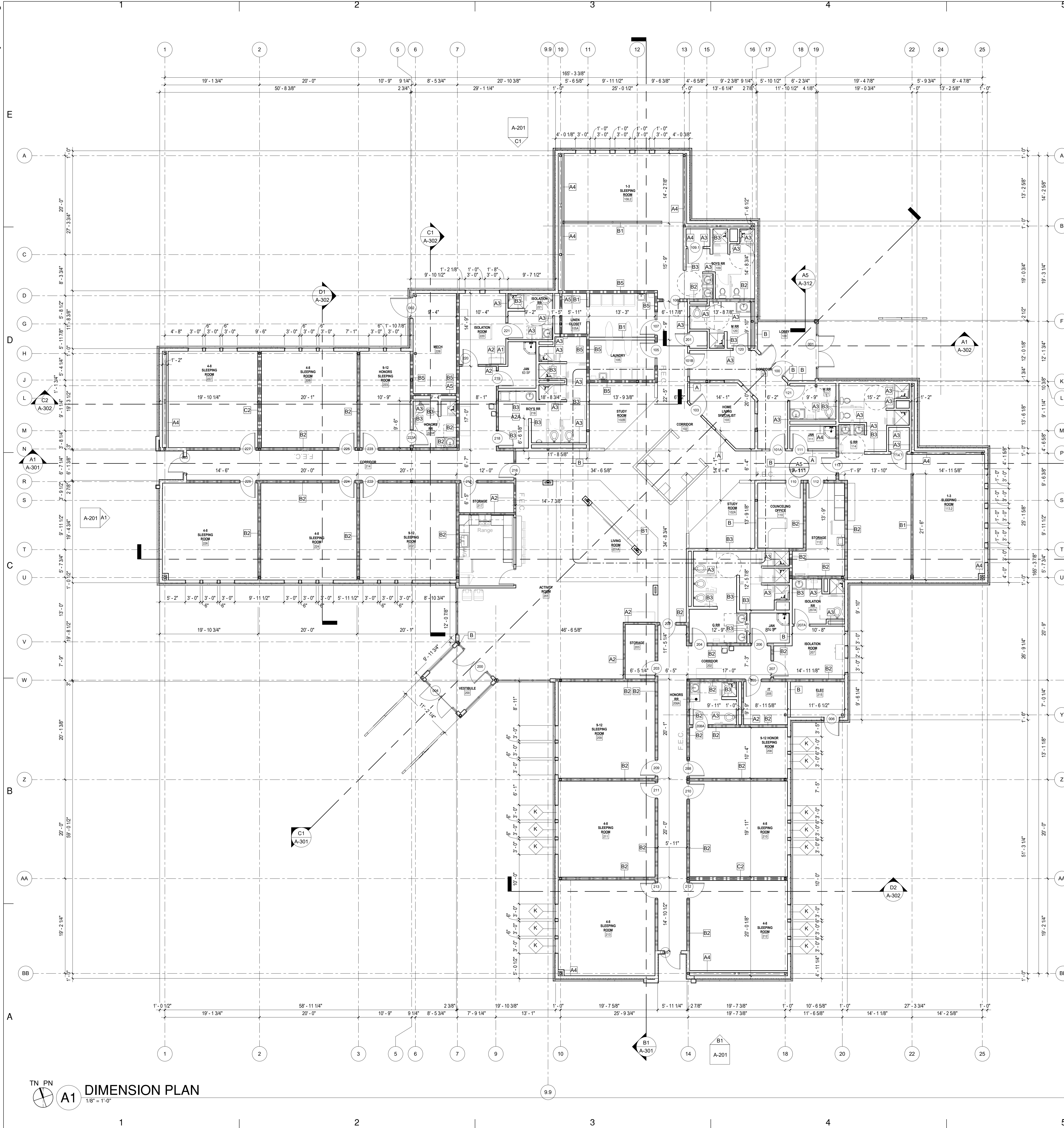
NOVEMBER 10, 2020

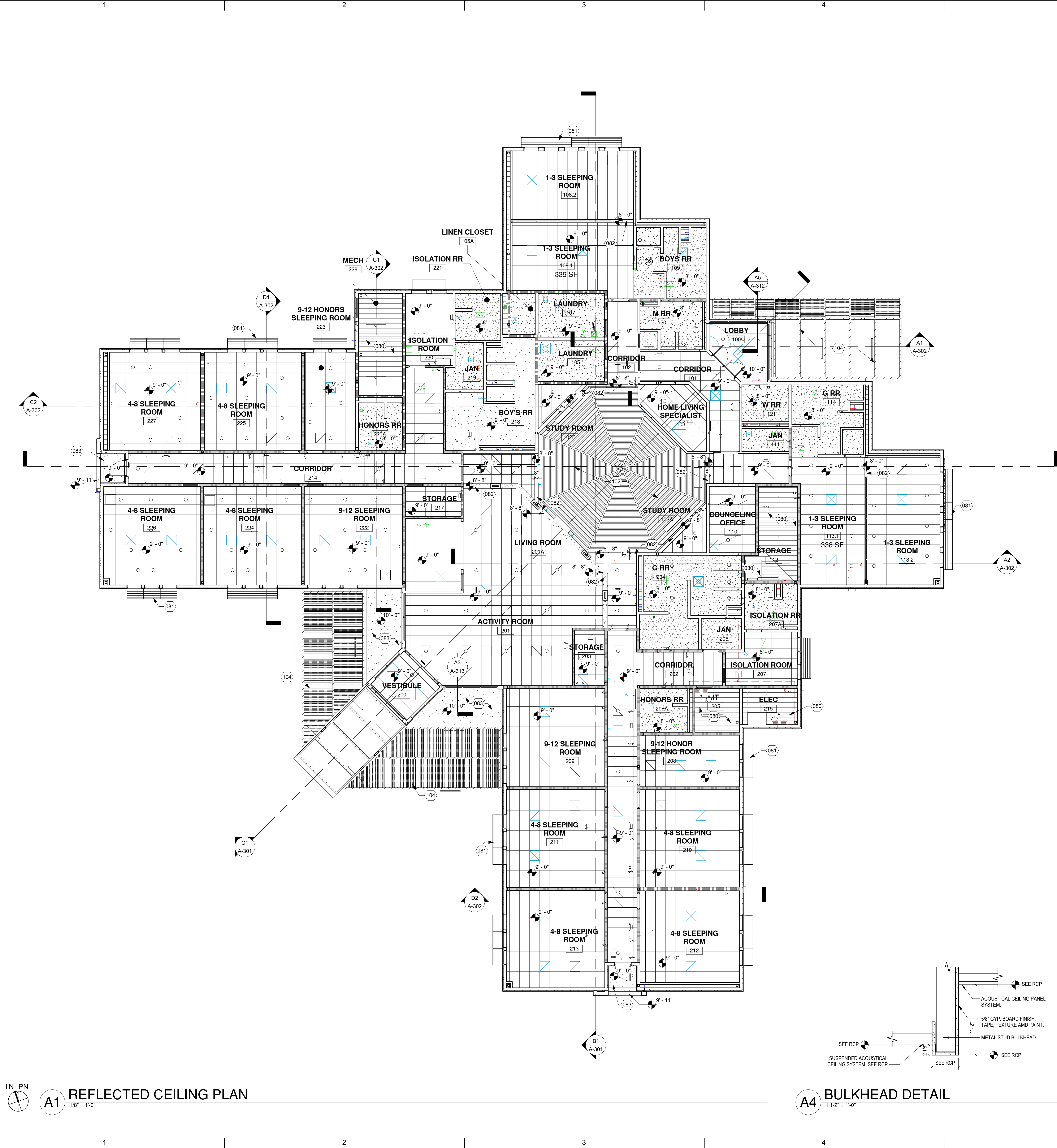
MARK	DATE	DESCRIPTION
------	------	-------------

ISSUE:
DATE:
PROJECT M751
CAD DWG FILE:
DRAWN By Author
CHECKED Checker

SHEET TITLE
DIMENSION PLAN

A-111





- GENERAL NOTES
- A.

ALL CEILING ELEVATIONS ARE ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE.
- B.

CONTROL DRYWALL TEXTURE OVER SPRAY AT ALL LOCATIONS OF EXPOSED CEILING. ENSURE NO OVER SPRAY ON STRUCTURE AND/OR BATT INSULATION.
- C.

CONTRACTOR SHALL COORDINATE WITH MECHANICAL, ELECTRICAL, AND FIRE PROTECTION WORK TO ACCOMPLISH CEILING HEIGHTS. NOTIFY ARCHITECTS OF ANY CONFLICTS PRIOR TO INSTALLATION.
- D.

EXACT LOCATION OF SPRINKLER HEADS AND ALL SPECIAL SYSTEMS EQUIPMENT SHALL BE COORDINATED WITH ARCHITECT PRIOR TO SYSTEM INSTALLATION. SPRINKLER HEADS SHALL BE INSTALLED IN CENTER OF CEILING TILE.
- E.

SEE ID SHEETS FOR WALL ACCENT PAINT COLORS.
- F.

ALL PAINT COLORS TO BE SELECTED BY ARCHITECT UNLESS NOTED OTHERWISE.
- G.

COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH MECHANICAL AND PLUMBING.
- H.

ALL DIMENSIONS ARE TO FACE OF FINISH.

- REFLECTED CEILING LEGEND
- 1

A101

SIM

BUILDING /WALL SECTION

SPOT ELEVATION

GYPSON BOARD CEILING, TAPE, TEXTURE AND PAINT.

EXPOSED TONGUE AND GROOVE WOOD DECKING AND GLULAM BEAMS.

2' X 2' ACOUSTIC, LAY-IN CEILING TILE.

2' X 4' ACOUSTIC, LAY-IN CEILING TILE.

SUPPLY AIR DIFFUSER. SEE MECHANICAL.

RETURN AIR DIFFUSER. SEE MECHANICAL.

LIGHT FIXTURES. NOT ALL TYPES SHOWN IN THIS LEGEND. SEE ELECTRICAL FOR COMPLETE FIXTURE SCHEDULE.

NOTE: REFER ALSO TO ELECTRICAL AND MECHANICAL DRAWINGS FOR REFLECTED CEILING PLAN ITEMS NOT SHOWN OR NOTED ON ARCHITECTURAL REFLECTED CEILING PLANS

KEYED NOTES

030

ROOF ACCESS LADDER AND HATCH. SEE ROOF DETAILS A-141.

080

EXPOSED TO STRUCTURE. PAINT ALL STRUCTURAL ELEMENTS INCLUDING DECK AND ELECTRICAL, MECHANICAL AND FIRE PROTECTION ITEMS. COLOR TO BE SELECTED BY ARCHITECT.

081

PREFINISHED ALUMINUM SUNSHADE. SEE BUILDING AND WALL SECTIONS.

082

GYP BOARD BULKHEAD. PAINT.

083

STUCCO SOFFIT.

102

EXPOSED TONGUE AND GROOVE WOOD DECKING AND GLULAM BEAMS. STAINED. COLOR TO BE SELECTED BY ARCHITECT. SEE WALL SECTIONS AND DETAILS.

104

EXTERIOR CANOPY. PAINT ALL EXPOSED STEEL. SEE BUILDING AND WALL SECTIONS. SEE STRUCTURAL.

A4 BULKHEAD DETAIL
1 1/2" = 1'-0"

A5 SOFFIT DETAIL
1 1/2" = 1'-0"

fbt

architects

MAIL: 6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110

PHO: 505.883.5200
FAX: 505.884.5290
WEB: www.fbtarch.com

CONSULTANT

CIVIL
Bohannon Huston
7500 Jefferson St. NE,
Albuquerque, NM 87109
p_505.823.100

STRUCTURAL
Walla Engineering Ltd
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

M/E/P/FP
Bridgers and Paxton
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111 f_505.888.1436

INTERIORS
Studio M
6501 Americas Pkwy NE Ste. 301
Albuquerque, NM 87110
p_505.243.9287

SITE
Groundwork Studio
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126

FOOD SERVICE
Standard Kitchen Supply
2405 Candelaria Rd. NE,
Albuquerque, NM 87107
p_505.341.1054

ENVELOPE AND ROOF CONSULTANT
Armstrong Group INC.
2415 Princeton Ave, NE Suite E
Albuquerque, NM 87107
p_505.235.7596

ARCHITECT

**Dzilth-Na-O-Dith-Hle -
New Dormitory
Building**

PRICING SET

35 Road 7585, Bloomfield, NM
87413

NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION

ISSUE:

DATE:

PROJECT NO: 751

CAD DWG FILE:

DRAWN BY: Author

CHECKED BY: Checker

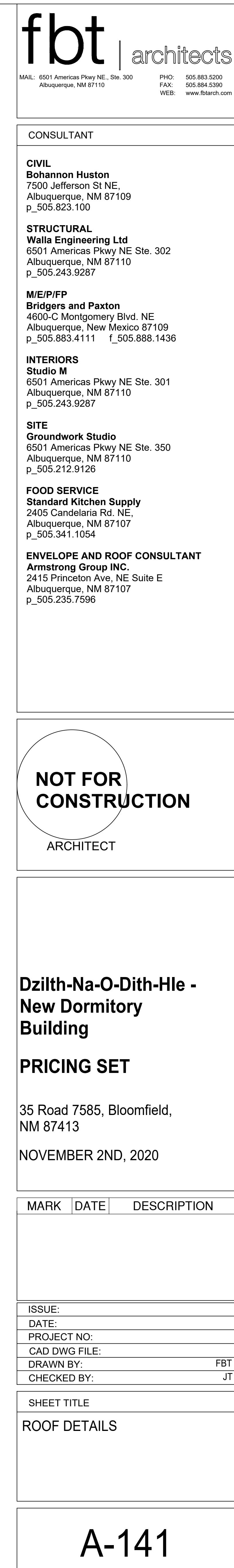
SHEET TITLE

REFLECTED CEILING PLANS

A-120

Dzilth-Na-O-Dith-Hle Community School







**Dzilth-Na-O-Dith-Hle -
New Dormitory
Building**

PRICING SET

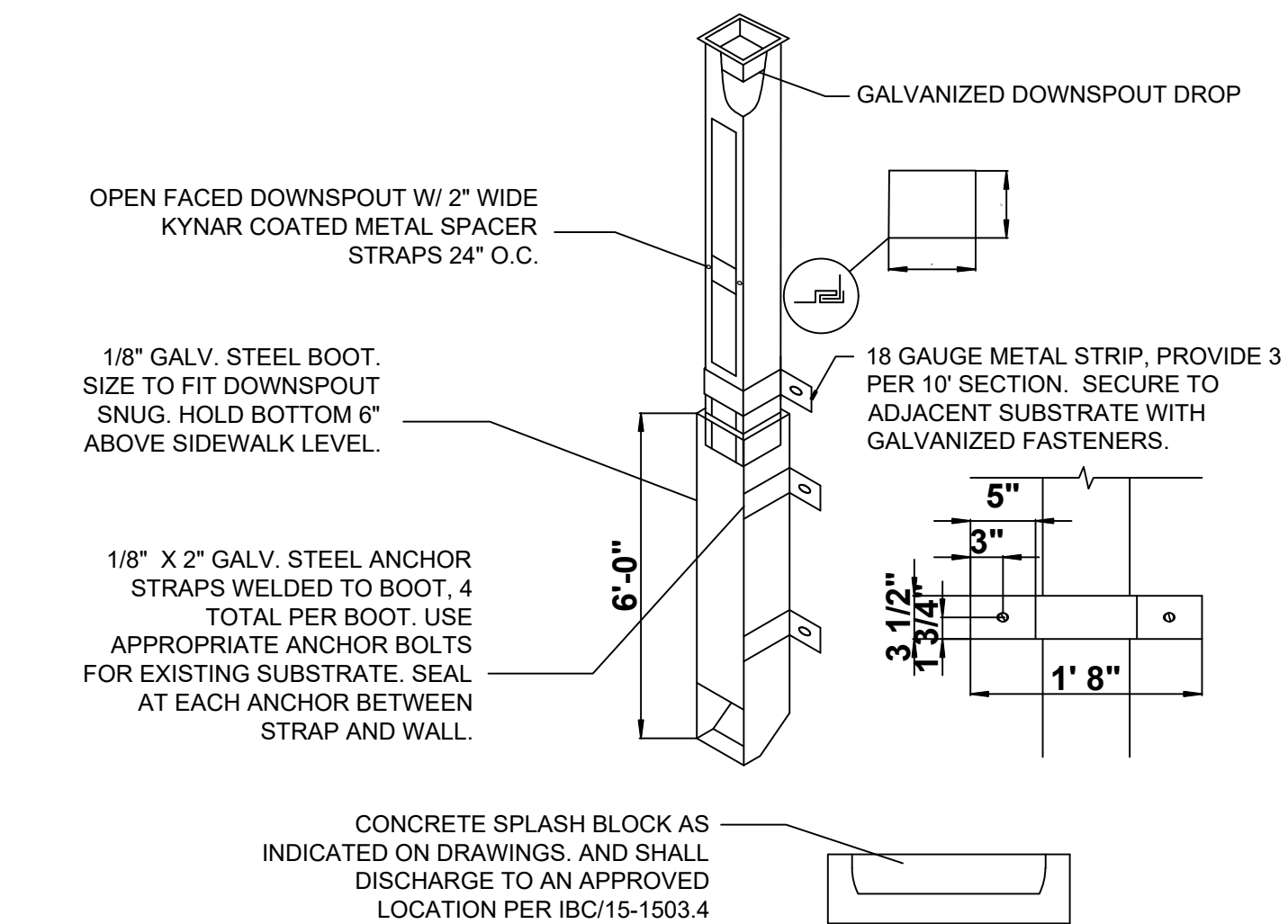
35 Road 7585, Bloomfield,
NM 87413

NOVEMBER 2ND, 2020

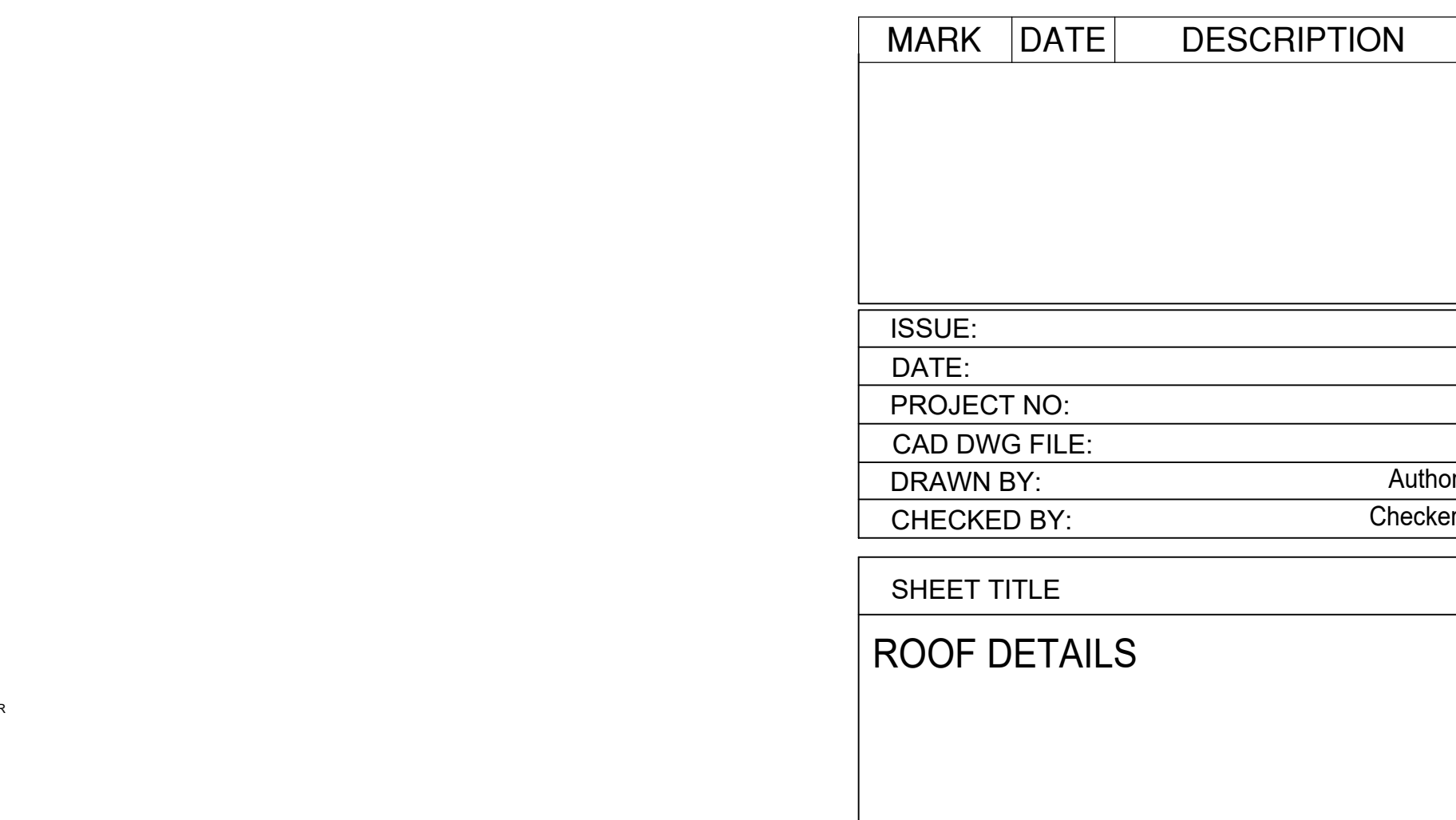
SHEET TITLE
ROOF DETAILS



B4 RAKE DETAIL
N.T.S.



A4 FIRST ROW SNOW GUARD DETAIL
N.T.S.



A5 FIELD SNOW GUARD DETAIL
N.T.S.

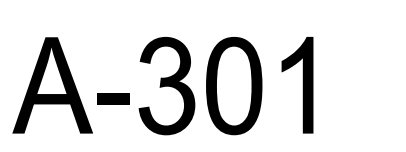


A-201



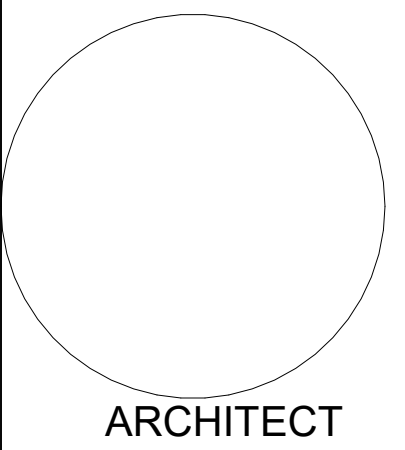
301 ALUMINUM STOREFRONT SYSTEM. SEE WINDOW FRAME ELEVATIONS.
316 CONCRETE SLAB ON GRADE OVER YIPOR BARRIER AND 4" AGGREGATE
BASE COURSE ON PREPARED SUBGRADE. SEE STRUCTURAL AND
GEOTECHNICAL REPORT.
321 FINISH CEILING. SEE RCP.
325 EXPOSED MECHANICAL EQUIPMENT OR DUCTWORK. PAINT ALL EXPOSED
ELEMENTS. COLOR TO BE SELECTED BY ARCHITECT. DO NOT PAINT
PREFINISHED ELEMENTS.
326 MEMBRANE ROOFING SYSTEM. SEE ROOF PLAN AND DETAILS.
381 STANDING SEAM METAL ROOFING SYSTEM. SEE ROOF PLAN AND DETAILS.

ENVELOPE AND ROOF CONSULTANT
Armstrong Group INC.
 2415 Princeton Ave, NE Suite E
 Albuquerque, NM 87107
 p_505.235.7596





- # KEYED NOTES



**Dzilh-Na-O-Dith-Hle -
New Dormitory
Building**

PRICING SET

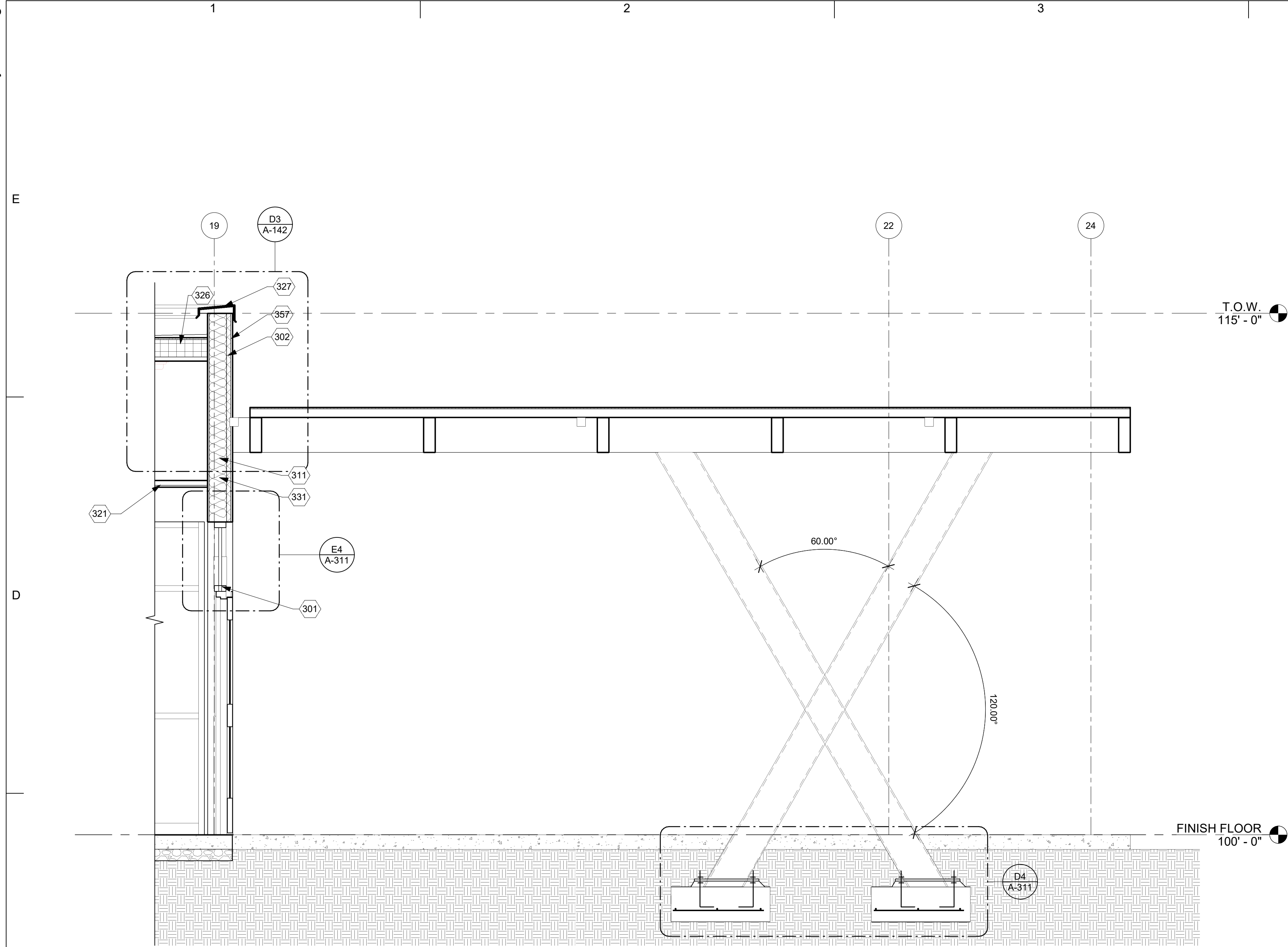
35 Road 7585, Bloomfield, NM
87413

NOVEMBER 10, 2020

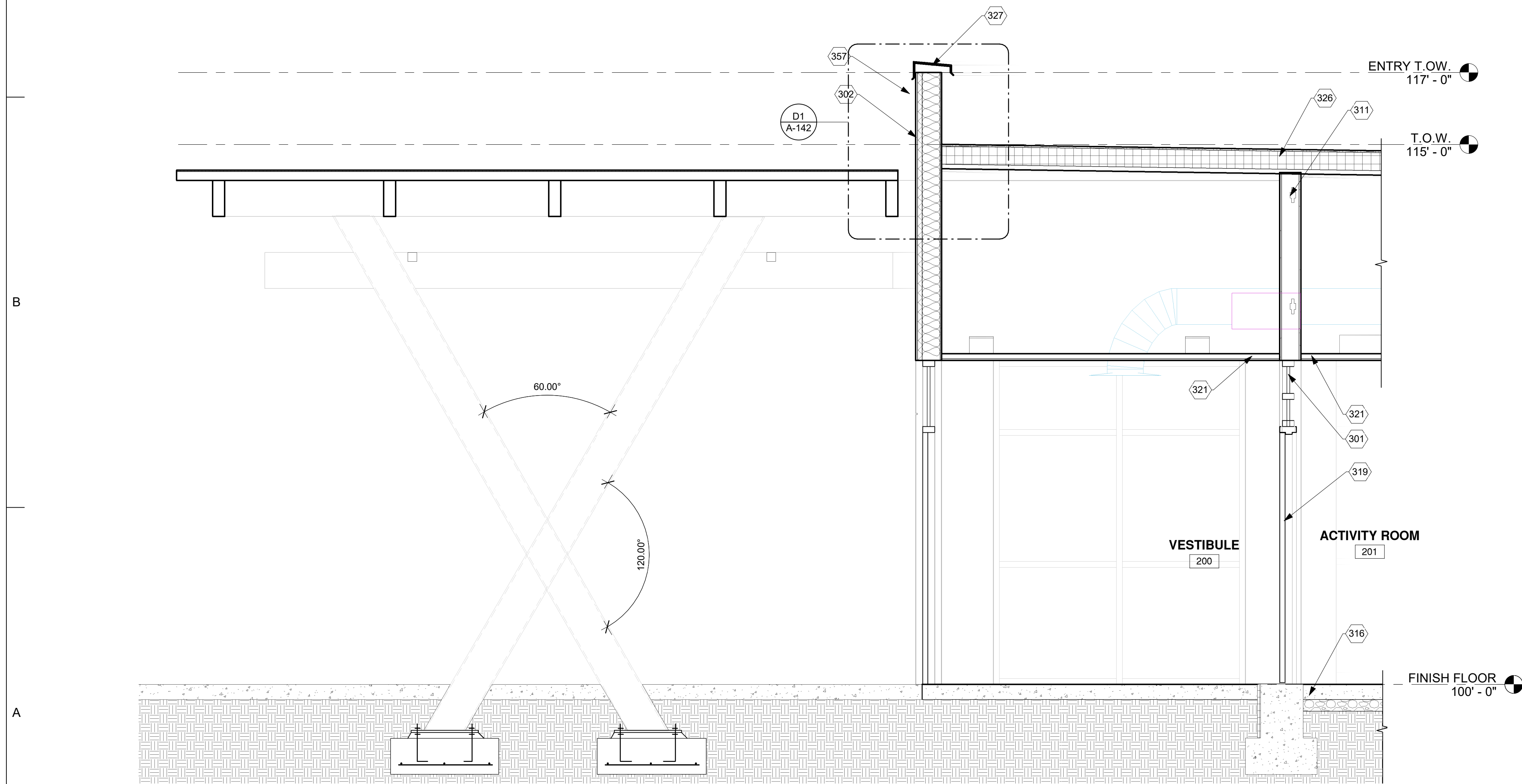
MARK	DATE	DESCRIPTION
ISSUE:		
DATE:		
PROJECT NO:		751
CAD DWG FILE:		
DRAWN BY:		Author
CHECKED BY:		Checker

SHEET TITLE
BUILDING SECTIONS

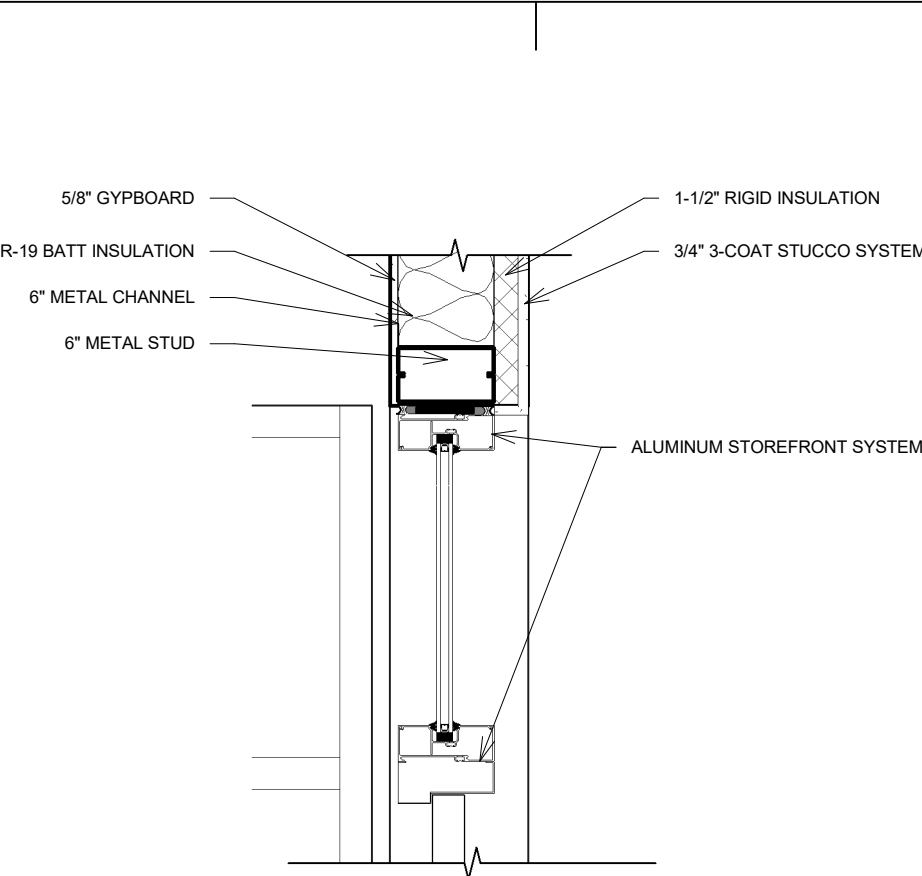
A-302



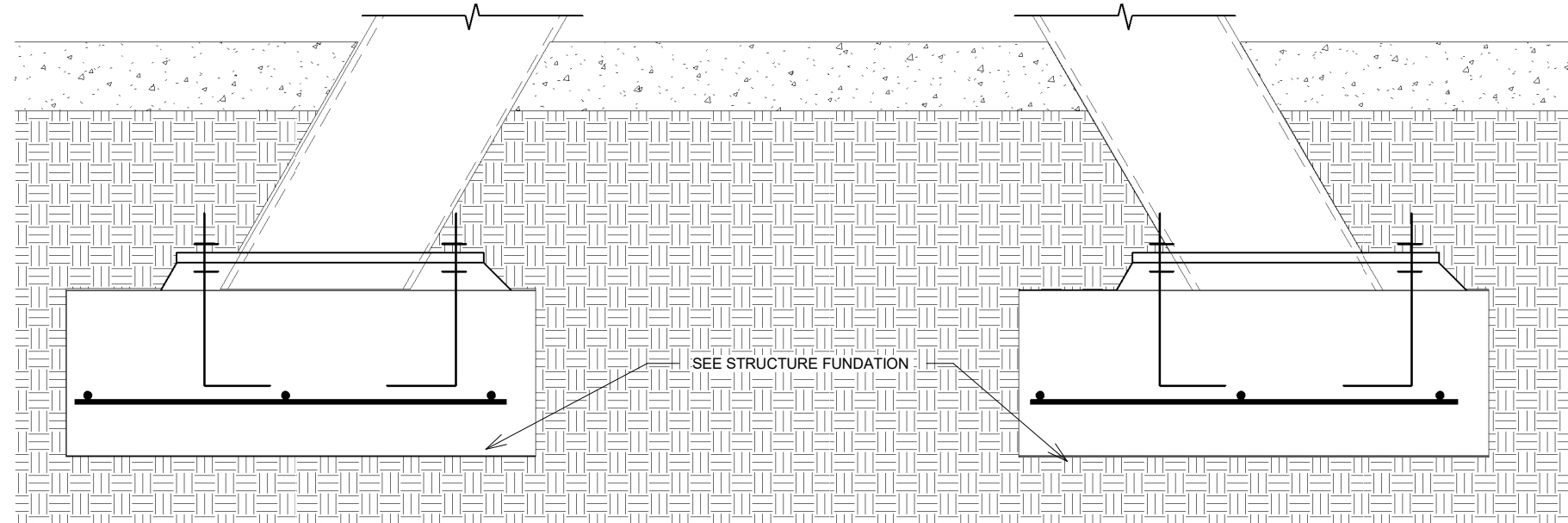
C1 WALL SECTION - VISITOR - VESTIBULE
1/2" = 1'-0"



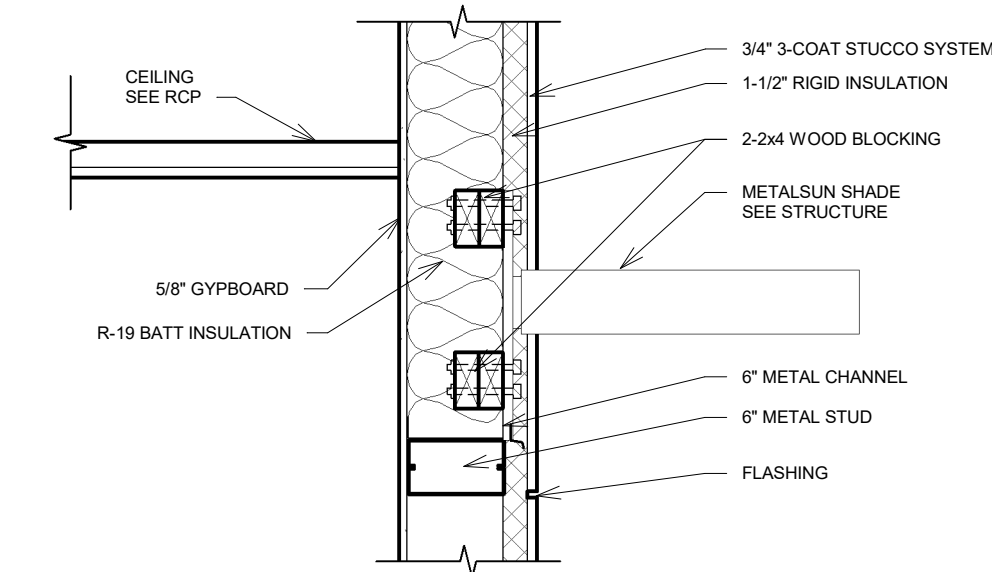
A1 WALL SECTION - COMMONS - VESTIBULE
1/2" = 1'-0"



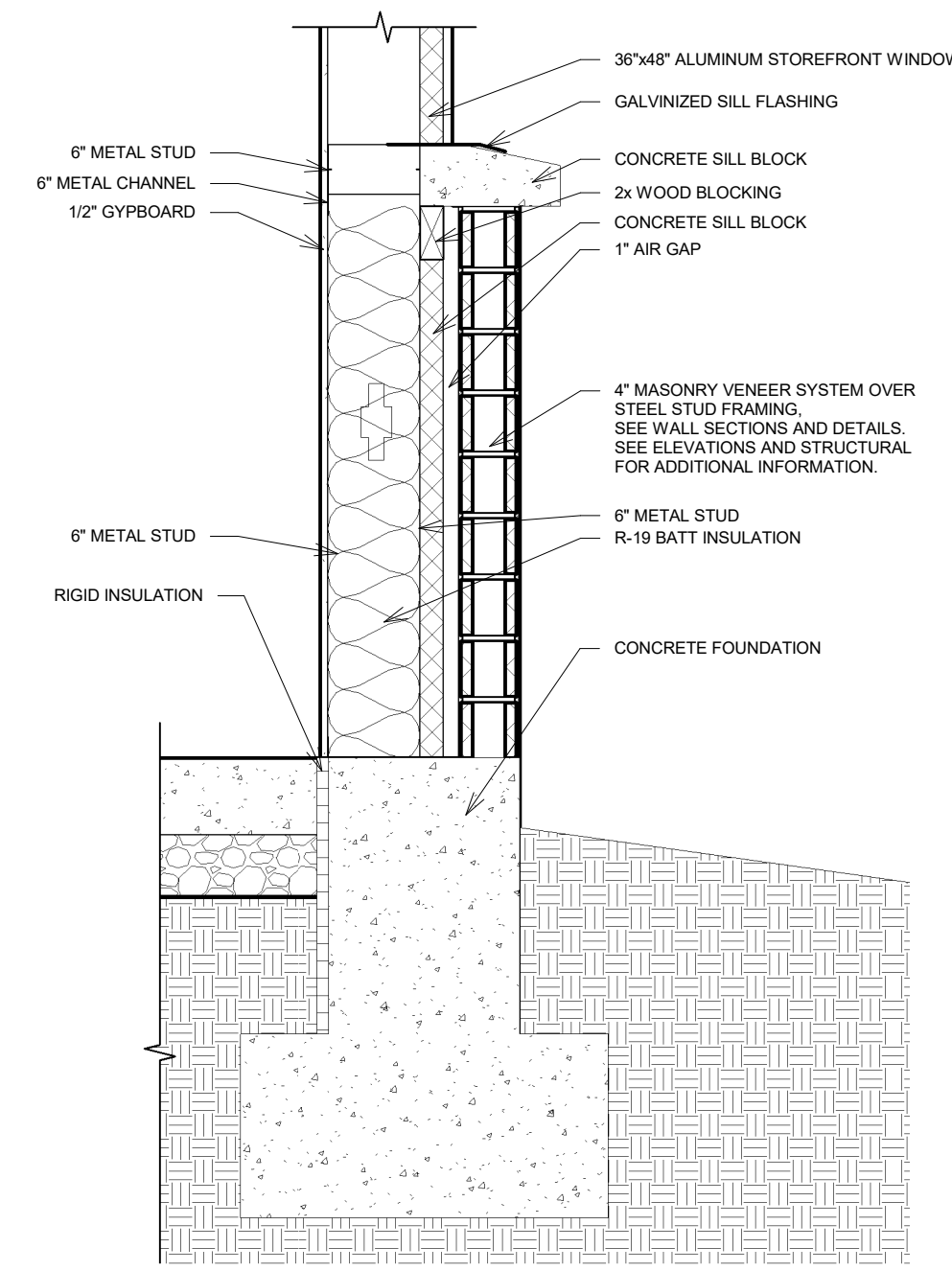
E4 STORE FRONT CONNECTION TYP.
1" = 1'-0"



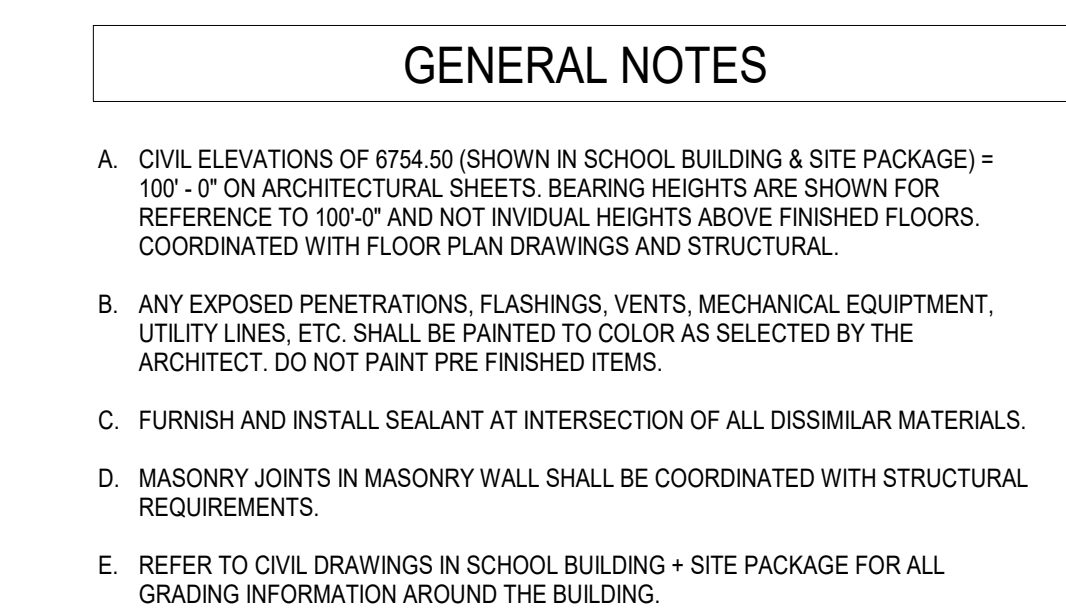
D4 CANOPY FOUNDATION
1" = 1'-0"



C4 SUNSHADE CONNECTION DETAIL

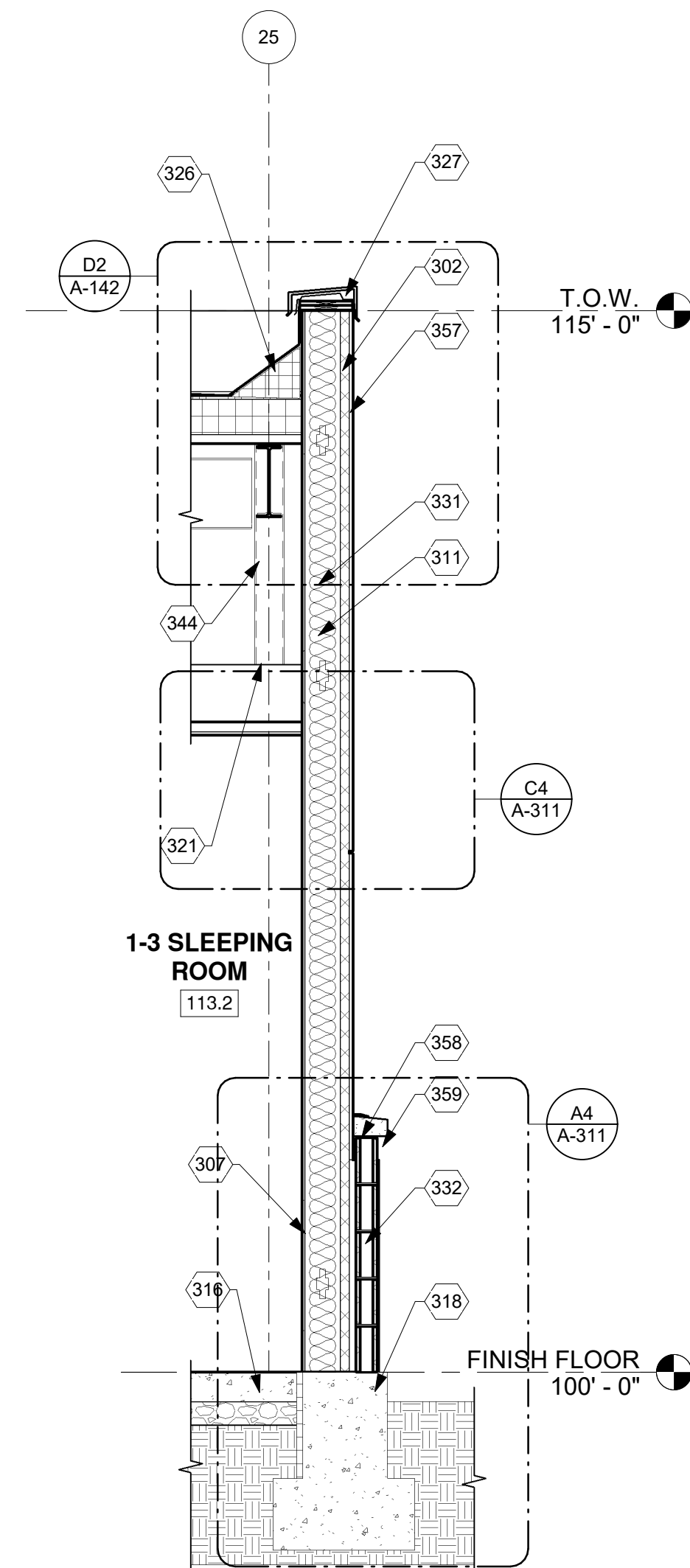


A4 VANNER WALL DETAIL TYP.
1" = 1'-0"

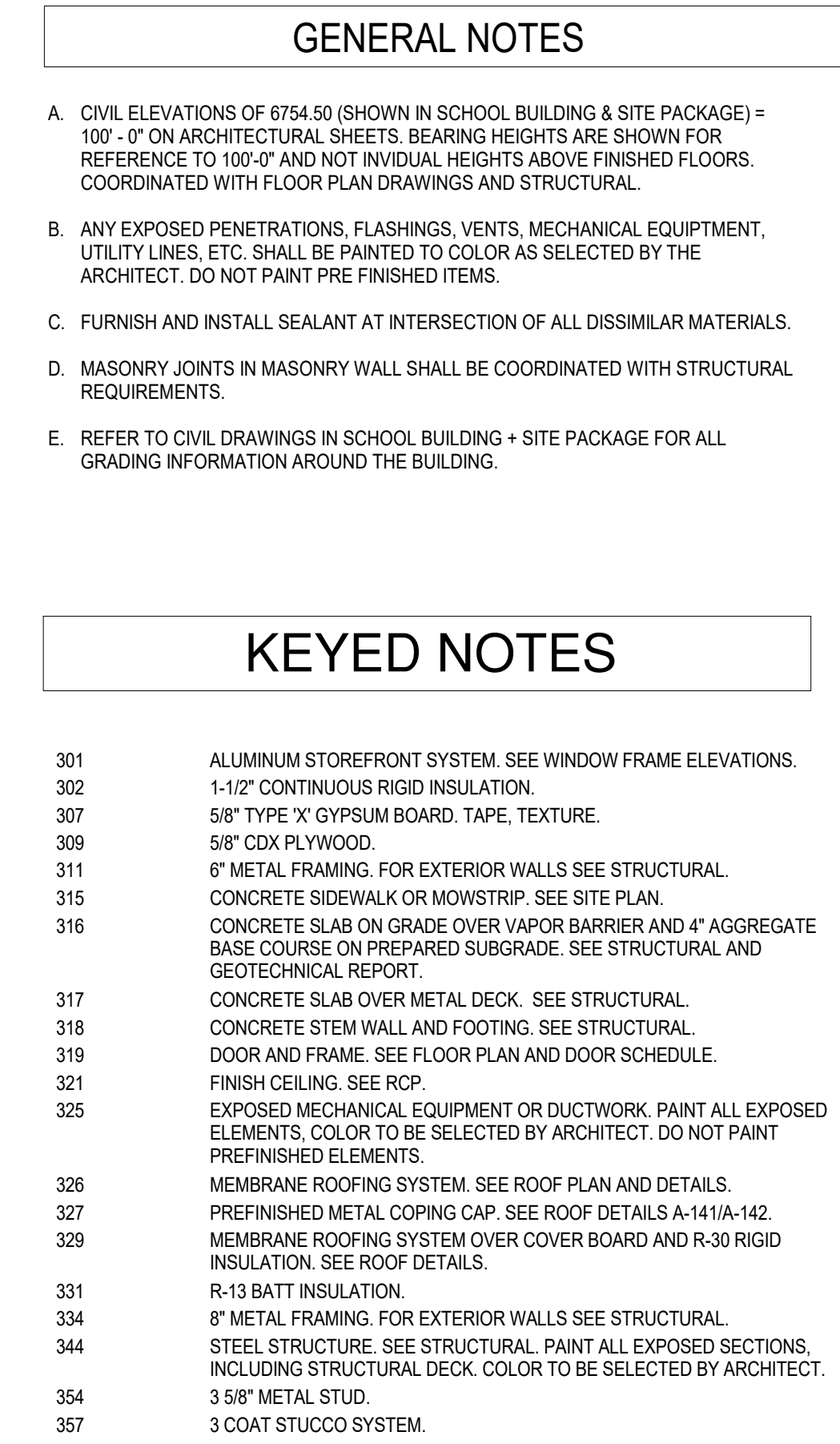


KEYED NOTES


- 301 ALUMINUM STOREFRONT SYSTEM, SEE WINDOW FRAME ELEVATIONS.
302 1-1/2" CONTINUOUS RIGID INSULATION.
303 1/2" EXPANSION JOINT MATERIAL WITH JOINT SEALANT.
304 5/8" TYPE 'X' GYPSUM BOARD TAPE, TEXTURE.
305
306 METAL FRAMING, FOR EXTERIOR WALLS SEE STRUCTURAL.
307 CONCRETE SLAB ON GRADE OVER VAPOR BARRIER AND 4" AGGREGATE
308 BASE COURSE ON PREPARED SUBGRADE. SEE STRUCTURAL
309 AND GEOTECHNICAL REPORT.
310 CONCRETE STEIN WALL AND FOOTING, SEE STRUCTURAL.
311 DOOR AND FRAME, SEE FLOOR PLAN AND DOOR SCHEDULE.
312 FINISH CEILING, SEE RCP.
313
314 MEMBRANE ROOFING SYSTEM, SEE ROOF PLAN AND DETAILS.
315 PREFINISHED METAL COPING CAP, SEE ROOF DETAILS A-141/A-142.
316 R-13 BATT INSULATION.
317
318 4" MASONRY VENEER SYSTEM OVER STEEL STUD FRAMING, SEE WALL
319 ELEVATIONS, SEE ELEVATIONS AND STRUCTURAL FOR ADDITIONAL
320 INFORMATION.
321
322 STEEL STRUCTURE, SEE STRUCTURAL. PAINT ALL EXPOSED SECTIONS.
323 INCLUDE STRUCTURAL DECK, COLOR TO BE SELECTED BY ARCHITECT.
324 3 COAT STUCCO SYSTEM.
325
326 PREFINISHED STEEL METAL SILL FLASHING.
327
328 VENEER CAP SILL.



A5 WALL SECTION TYP.
1/2" = 1'-0"



C3 WALL SECTION - PENTHOUSE @ HOGAN
1/2" = 1'-0"



ARCHITECT

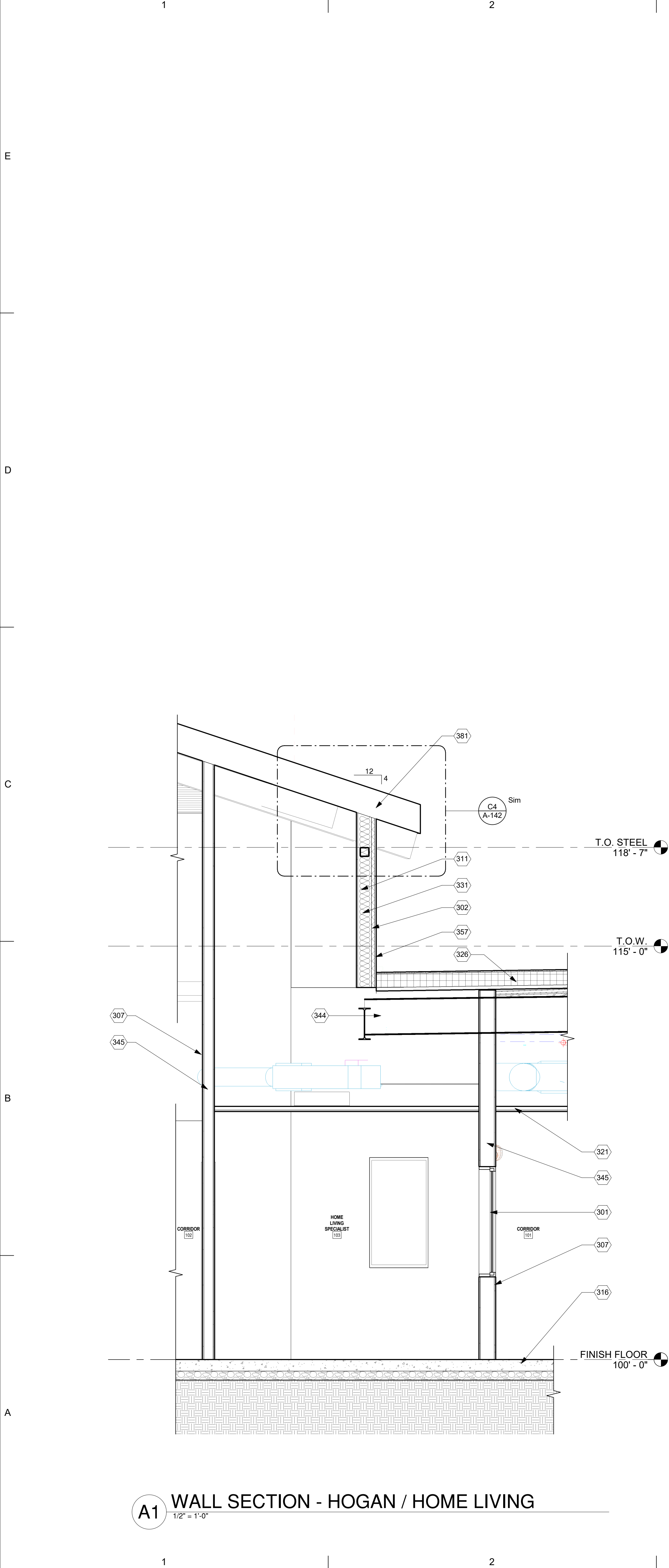
PRICING SET

NOVEMBER 10, 2020

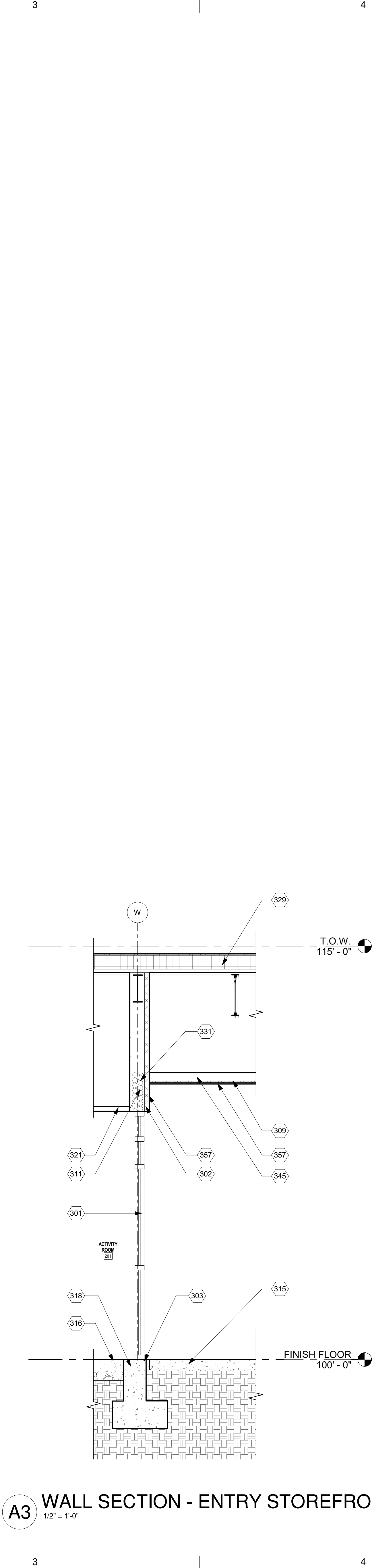
MARK	DATE	DESCRIPTION
ISSUE:		
DATE:		
PROJECT NO:		751
CAD DWG FILE:		
DRAWN BY:		Author
CHECKED BY:		Checker

SHEET TITLE
WALL SECTIONS

A-312



A1 WALL SECTION - HOGAN / HOME LIVING
1/2" = 1'-0"



A3 WALL SECTION - ENTRY STOREFRONT
1/2" = 1'-0"

GENERAL NOTES

- A. CIVIL ELEVATIONS OF 6754.50 (SHOWN IN SCHOOL BUILDING & SITE PACKAGE) = 100'-0" ON ARCHITECTURAL SHEETS. BEARING HEIGHTS ARE SHOWN FOR REFERENCE TO 100'-0" AND NOT INDIVIDUAL HEIGHTS ABOVE FINISHED FLOORS. COORDINATED WITH FLOOR PLAN DRAWINGS AND STRUCTURAL.
- B. ANY EXPOSED PENETRATIONS, FLASHINGS, VENTS, MECHANICAL EQUIPMENT, UTILITY LINES, ETC. SHALL BE PAINTED TO COLOR AS SELECTED BY THE ARCHITECT. DO NOT PAINT PRE FINISHED ITEMS.
- C. FURNISH AND INSTALL SEALANT AT INTERSECTION OF ALL DISSIMILAR MATERIALS.
- D. MASONRY JOINTS IN MASONRY WALL SHALL BE COORDINATED WITH STRUCTURAL REQUIREMENTS.
- E. REFER TO CIVIL DRAWINGS IN SCHOOL BUILDING + SITE PACKAGE FOR ALL GRADING INFORMATION AROUND THE BUILDING.

KEYED NOTES

- 301 ALUMINUM STOREFRONT SYSTEM. SEE WINDOW FRAME ELEVATIONS.
302 1-1/2" CONTINUOUS RIGID INSULATION.
303 1/2" EXPANSION JOINT MATERIAL WITH JOINT SEALANT.
307 5/8" TYPE 'X' GYPSUM BOARD, TAPE, TEXTURE.
309 5/8" CDX PLYWOOD.
311 6" METAL FRAMING. FOR EXTERIOR WALLS SEE STRUCTURAL.
315 CONCRETE SIDEWALK OR MOWSTRIP. SEE SITE PLAN.
316 CONCRETE SLAB ON GRADE OVER VAPOR BARRIER AND 4" AGGREGATE BASE COURSE ON PREPARED SUBGRADE. SEE STRUCTURAL AND GEOTECHNICAL REPORT.
318 CONCRETE STEM WALL AND FOOTING. SEE STRUCTURAL.
321 FINISH CEILING. SEE RCP.
326 MEMBRANE ROOFING SYSTEM. SEE ROOF PLAN AND DETAILS.
329 MEMBRANE ROOFING SYSTEM OVER COVER BOARD AND R-30 RIGID INSULATION. SEE ROOF DETAILS.
331 R-15 BATT INSULATION.
344 STEEL STRUCTURE. SEE STRUCTURAL. PAINT ALL EXPOSED SECTIONS, INCLUDING STRUCTURAL DECK. COLOR TO BE SELECTED BY ARCHITECT.
345 STEEL STUD PARTITION. SEE PARTITION SCHEDULE.
357 3 COAT STUCCO SYSTEM.
381 STANDING SEAM METAL ROOFING SYSTEM. SEE ROOF PLAN AND DETAILS.

fbt | architects

MAIL: 6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110

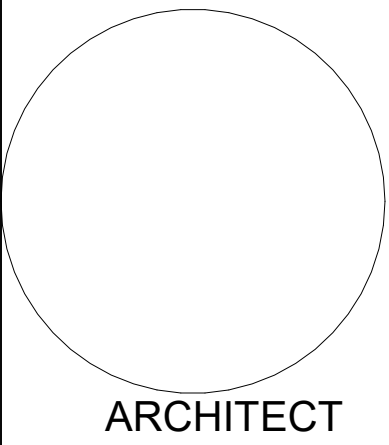
PHO: 505.883.5200

FAX: 505.884.5290

WEB: www.fbtarch.com

CONSULTANT

- CIVIL**
Bohannon Huston
7500 Jefferson St. NE,
Albuquerque, NM 87109
p_505.823.100
- STRUCTURAL**
Walla Engineering Ltd
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287
- M/E/P/FP**
Bridgers and Paxton
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111 f_505.888.1436
- INTERIORS**
Studio M
6501 Americas Pkwy NE Ste. 301
Albuquerque, NM 87110
p_505.243.9287
- SITE**
Groundwork Studio
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126
- FOOD SERVICE**
Standard Kitchen Supply
2405 Candelaria Rd. NE,
Albuquerque, NM 87107
p_505.341.1054
- ENVELOPE AND ROOF CONSULTANT**
Armstrong Group INC.
2415 Princeton Ave, NE Suite E
Albuquerque, NM 87107
p_505.235.7596



Dzilth-Na-O-Dith-Hle -
New Dormitory
Building

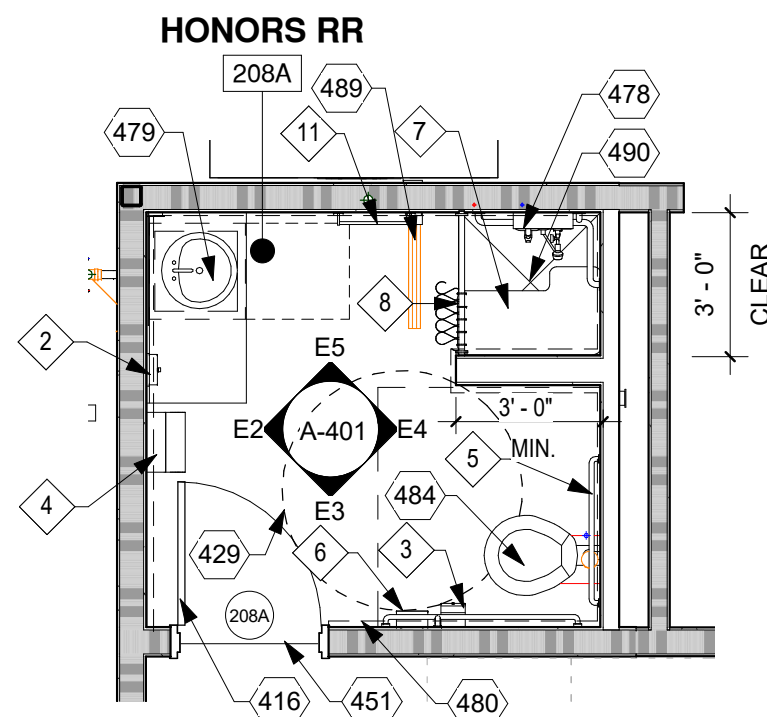
PRICING SET

35 Road 7585, Bloomfield, NM
87413

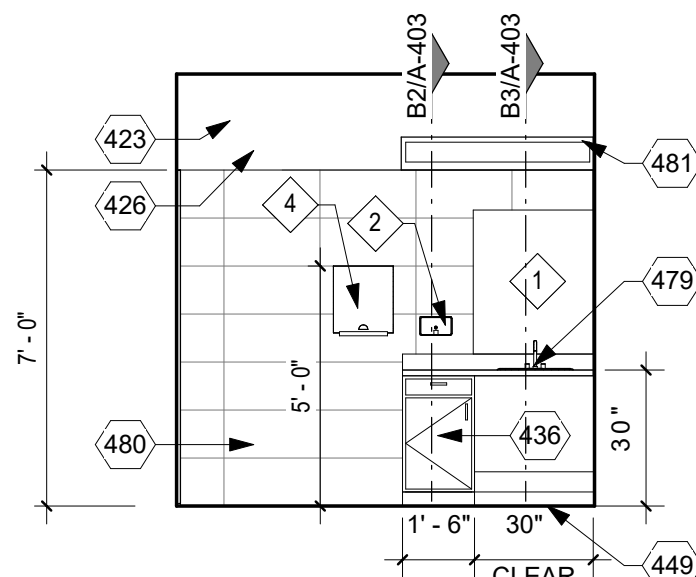
NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
ISSUE:		
DATE:		
PROJECT NO:		751
CAD DWG FILE:		
DRAWN BY:		Author
CHECKED BY:		Checker

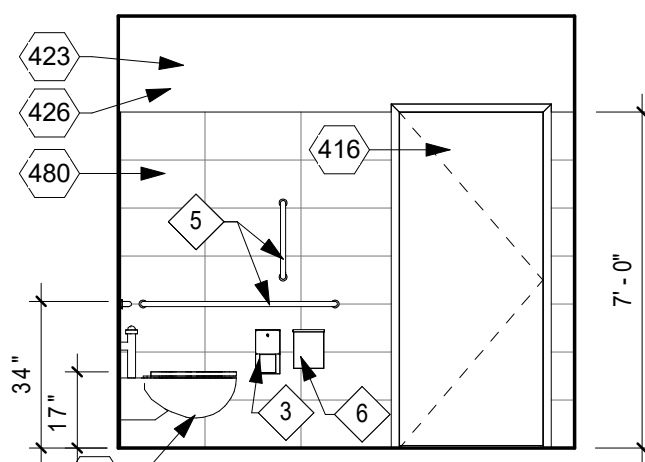
SHEET TITLE
WALL SECTIONS



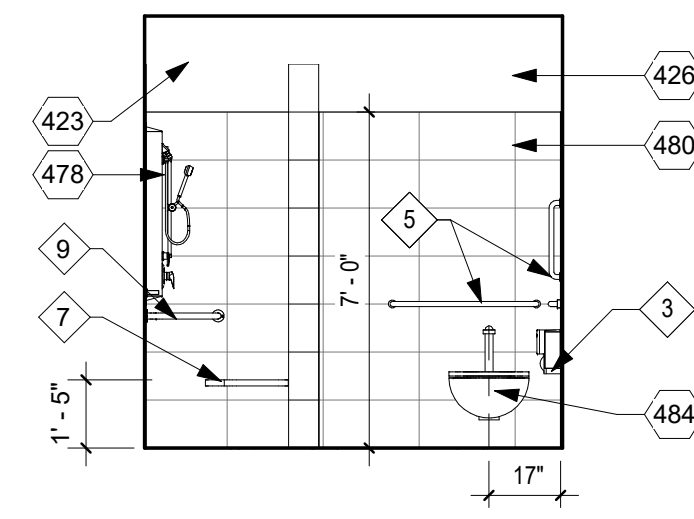
E1 HONORS RR
1/4" = 1'-0"
ADULT RR (AGE 12+) ROOMS 208A & 232A



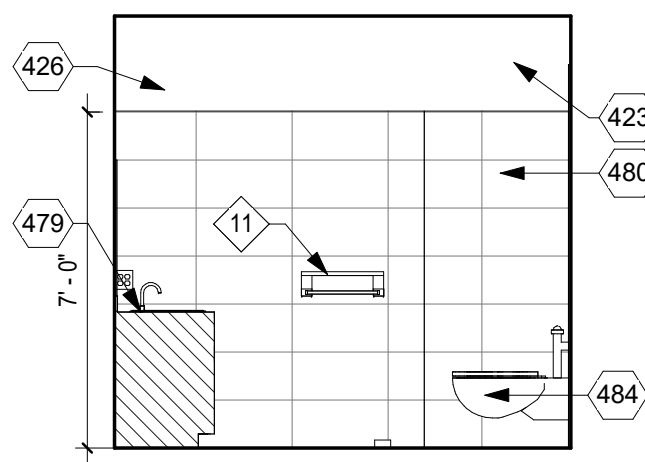
E2 HONORS RR LAVATORY
1/4" = 1'-0"



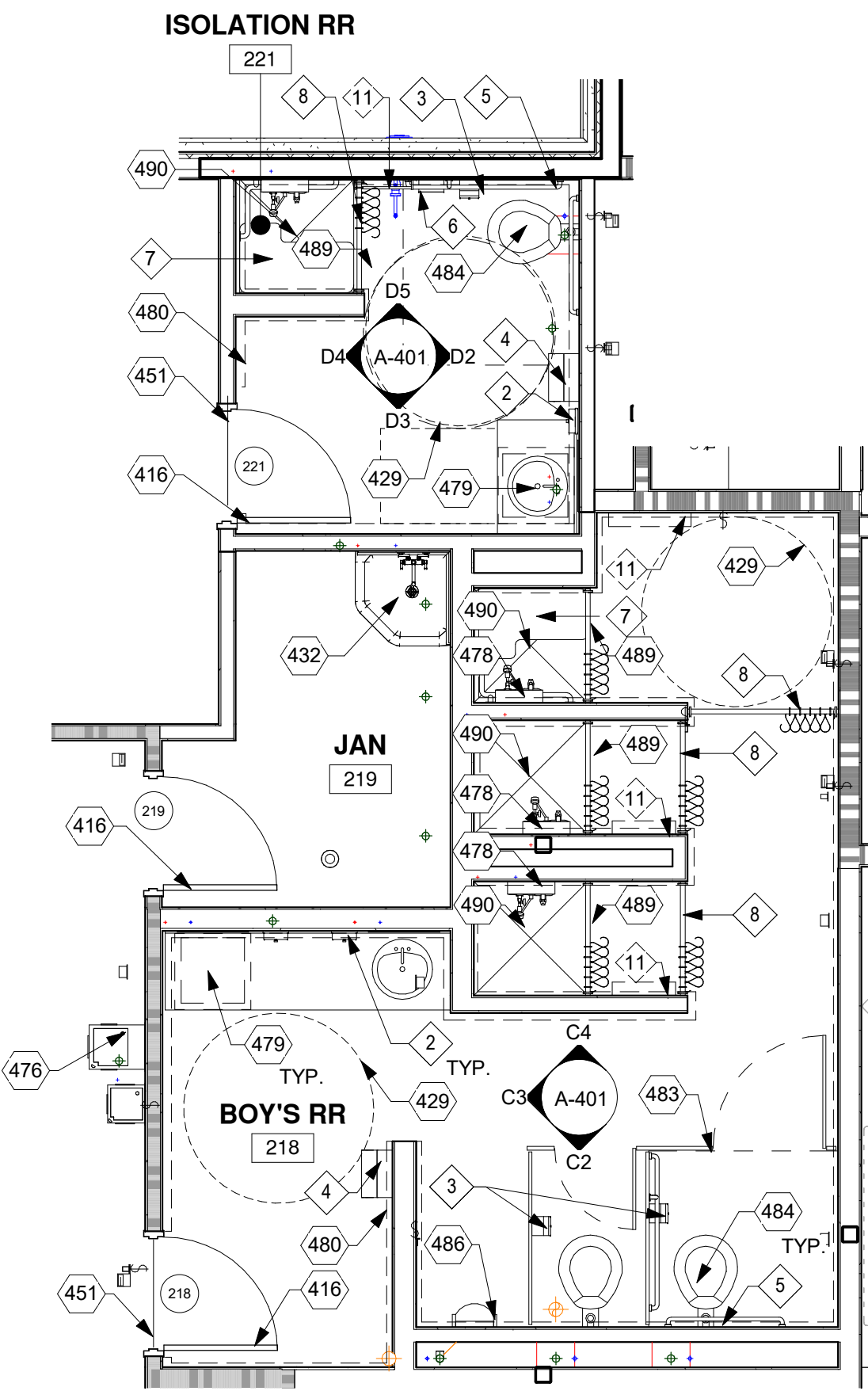
E3 HONORS RR SIDE
1/4" = 1'-0"



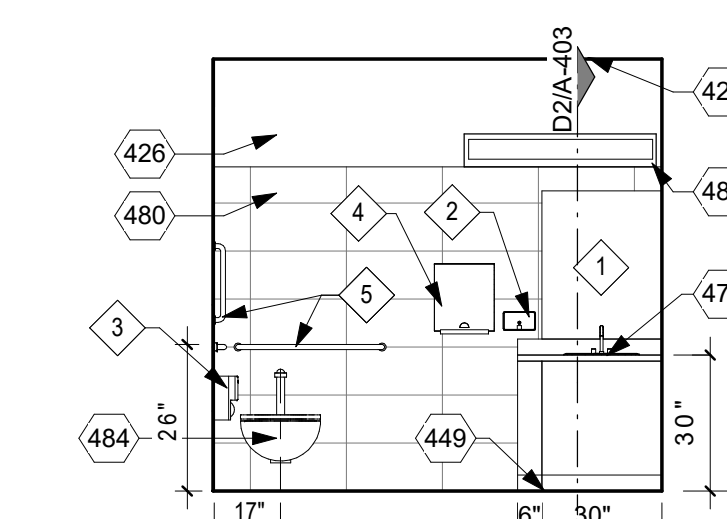
E4 HONORS RR FIXTURE
1/4" = 1'-0"



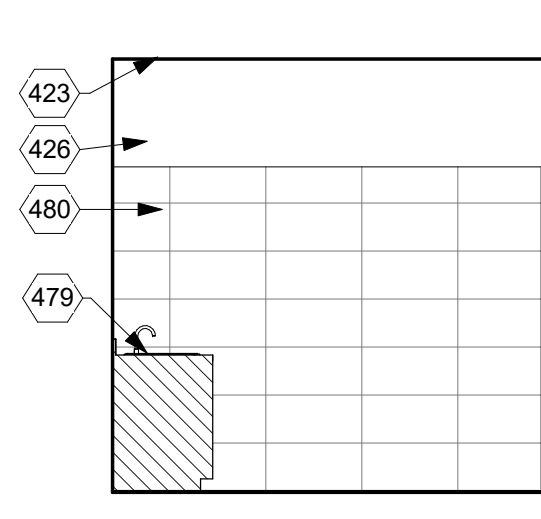
E5 HONORS RR END
1/4" = 1'-0"



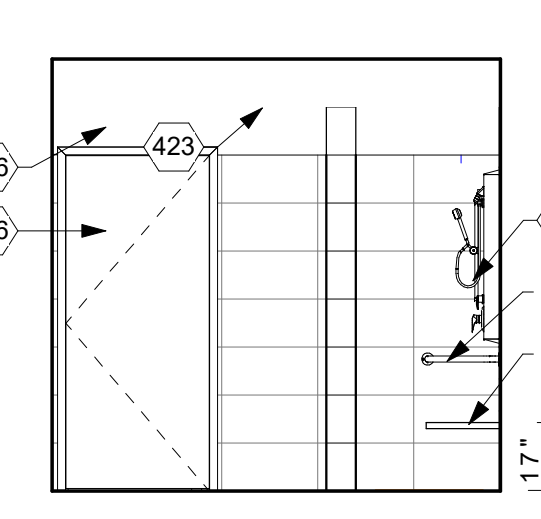
C1 BOYS RR - ISOLATION RR
1/4" = 1'-0"
CHILDREN RR (AGES 9-12) ROOMS 221 & 218



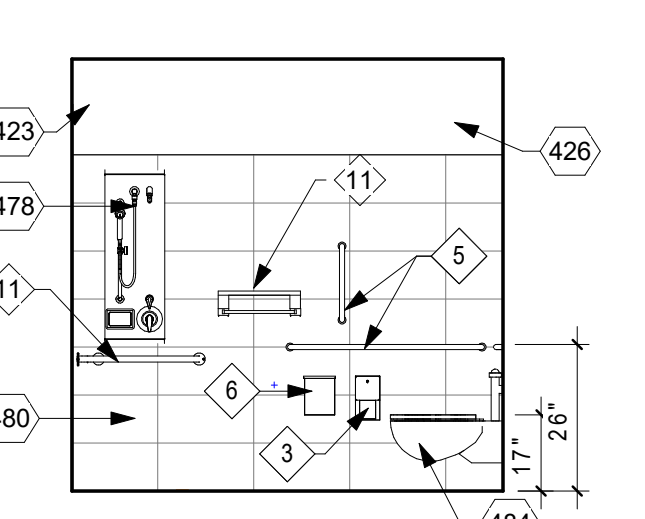
D2 ISO RR - FIXTURE
1/4" = 1'-0"



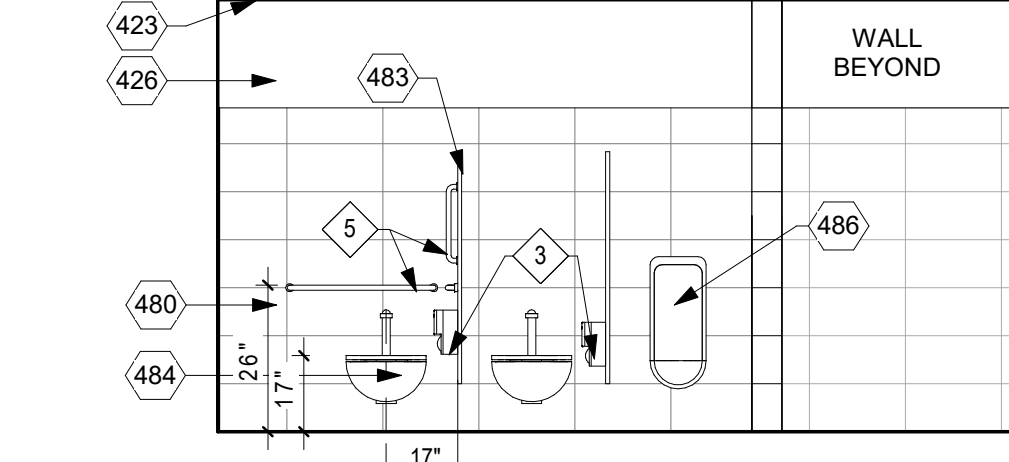
D3 ISO RR - SIDE
1/4" = 1'-0"



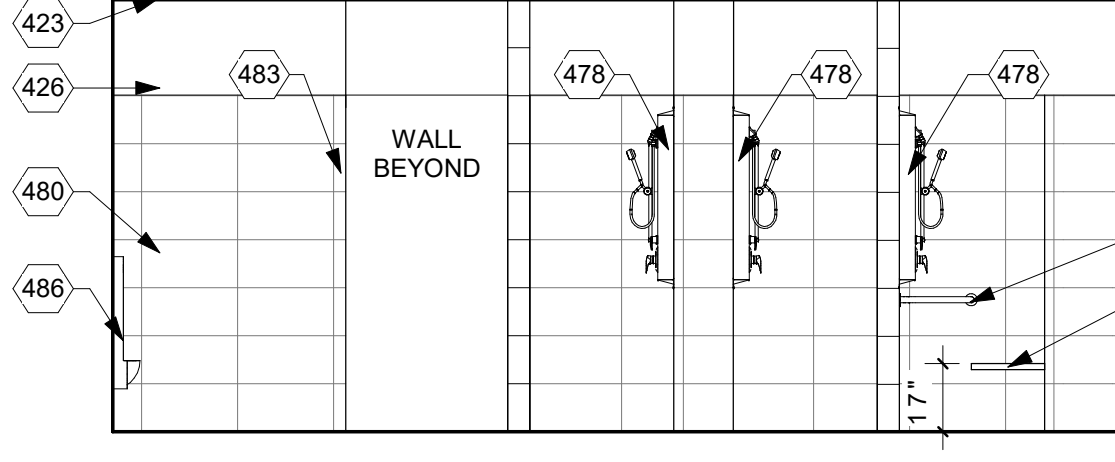
D4 ISO RR - ENTRANCE
1/4" = 1'-0"



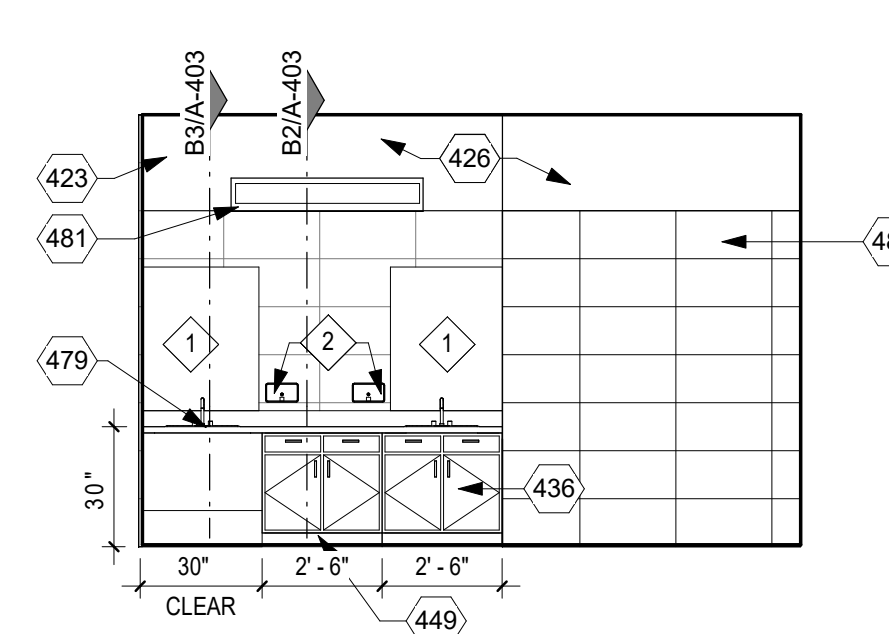
D5 ISO RR - END
1/4" = 1'-0"



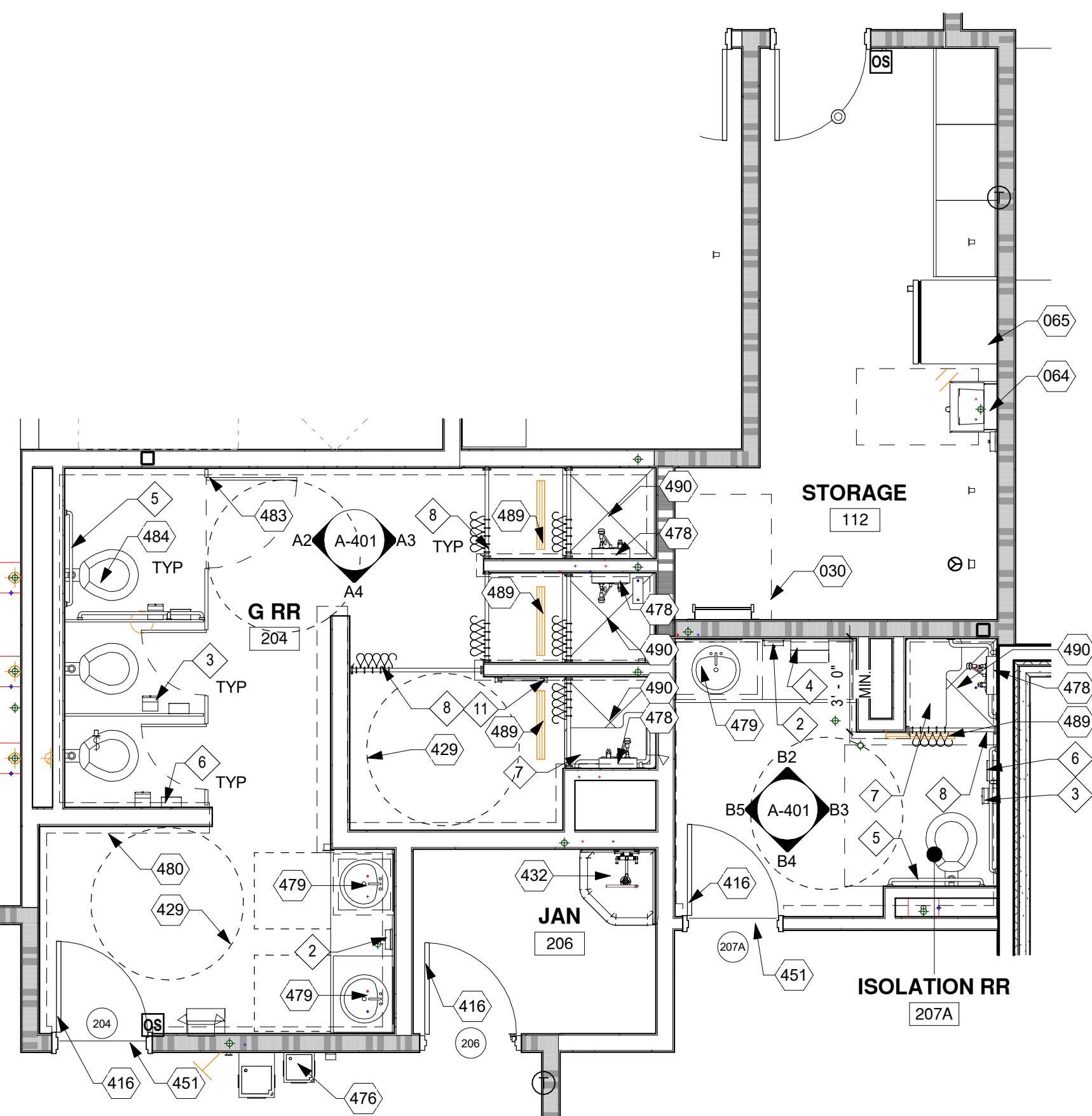
C2 BOYS RR - FIXTURE
1/4" = 1'-0"



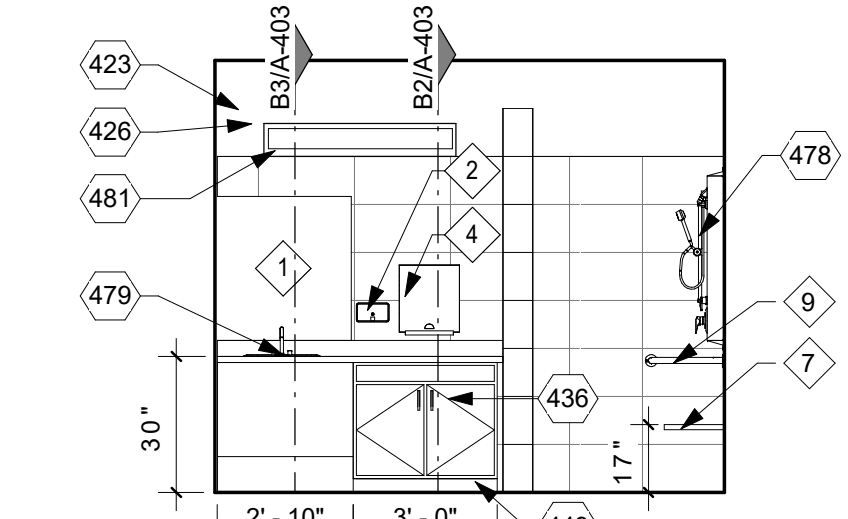
C3 BOYS RR - SIDE
1/4" = 1'-0"



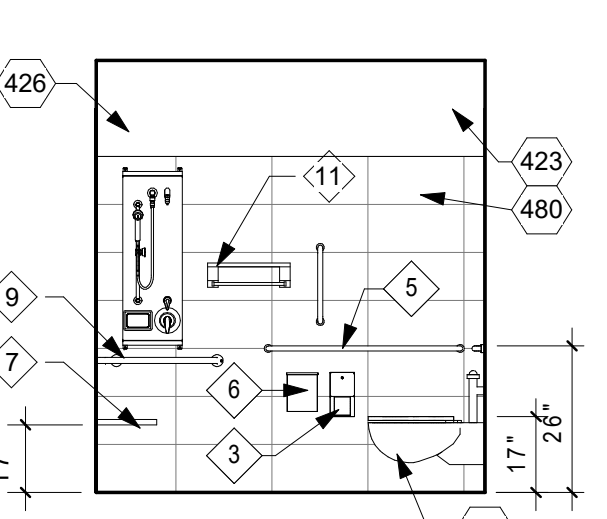
C4 BOYS RR - SHOWERS
1/4" = 1'-0"



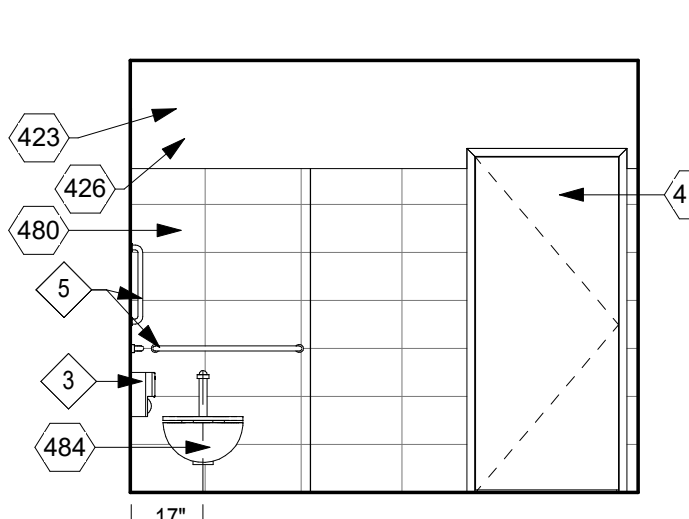
A1 GIRLS RR - ISOLATION RR
1/4" = 1'-0"
CHILDREN RR (AGES 9-12) ROOMS 204 & 207A



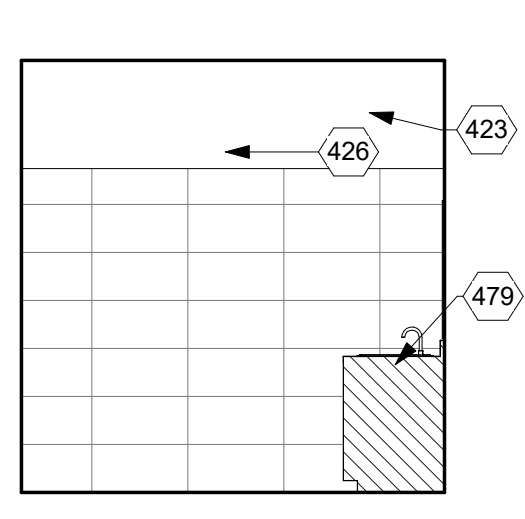
B2 ISOLATION - FIXTURE
1/4" = 1'-0"



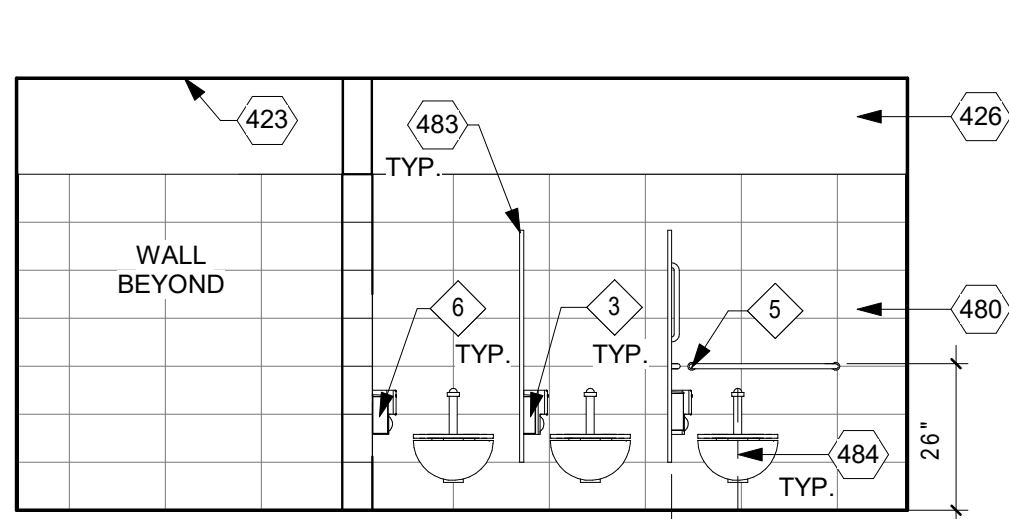
B3 ISO - END WALL
1/4" = 1'-0"



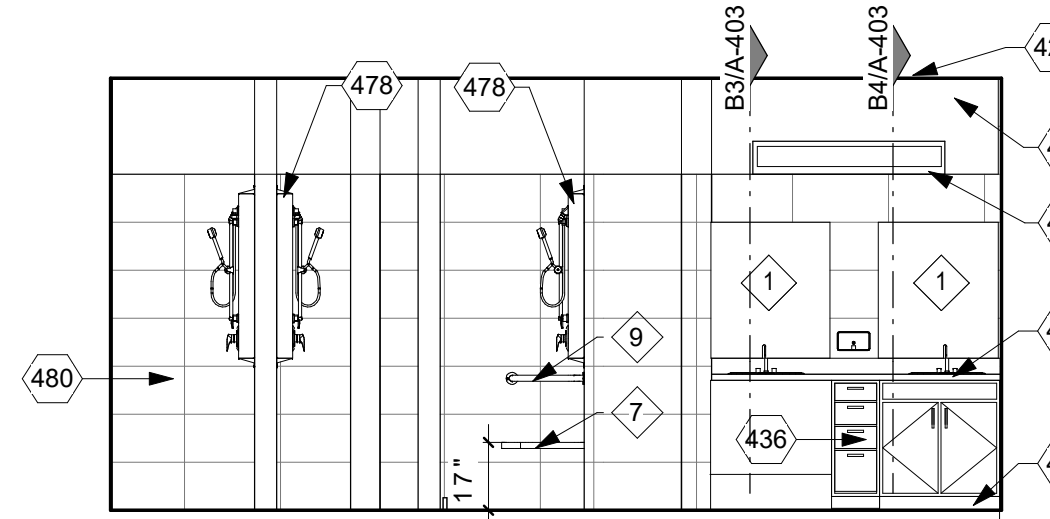
B4 ISO - ENTRANCE
1/4" = 1'-0"



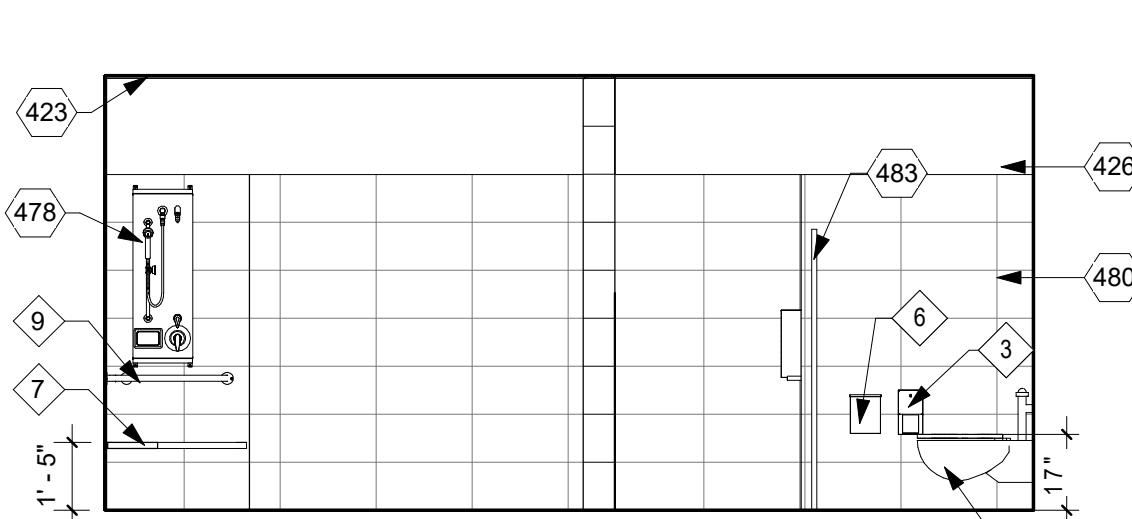
B5 ISOLATION - SIDE
1/4" = 1'-0"



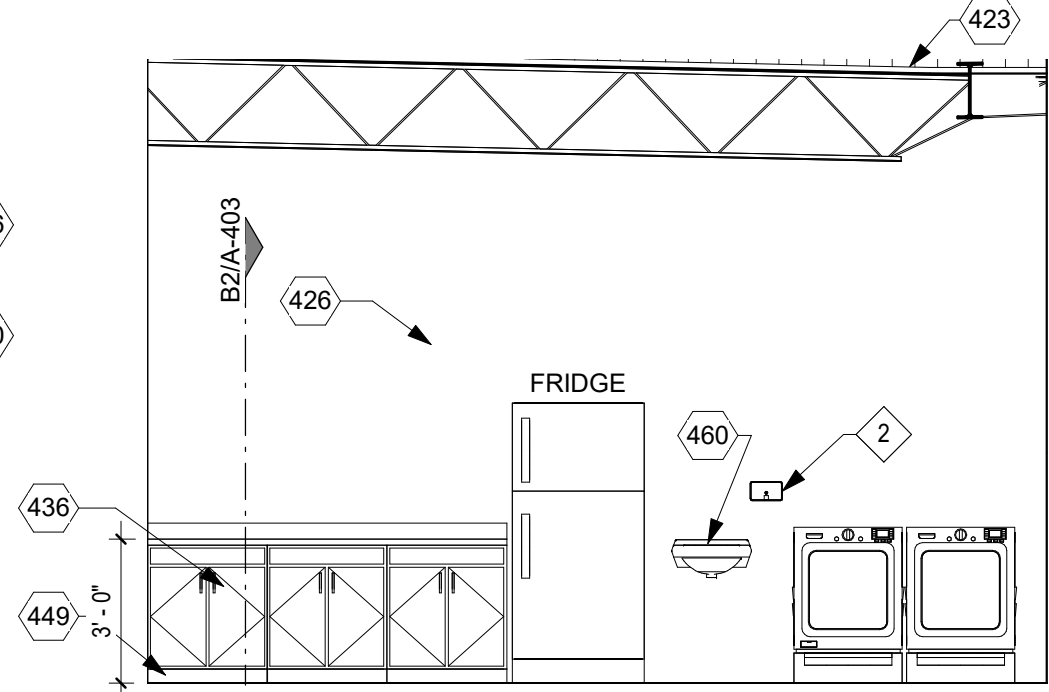
A2 GIRLS RR - FIXTURE
1/4" = 1'-0"



A3 GIRLS RR - SHOWERS
1/4" = 1'-0"



A4 GIRLS RR - SIDE
1/4" = 1'-0"



A6 STORAGE
1/4" = 1'-0"

GENERAL NOTES

- CONTRACTOR SHALL PERFORM DAILY CLEANUP WHEN FINISH TRADE WORK IS BEING PERFORMED.
- PROVIDE WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES, AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.
- PROVIDE SEALANT AT INTERSECTIONS OF ALL DISSIMILAR MATERIALS.
- COORDINATE ALL PLUMBING FIXTURES WITH THE PLUMBING DRAWINGS. IN CASE OF ANY DISCREPANCY, NOTIFY ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN OF INSTALLATION.
- PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.
- ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
- ALL FIXTURES AND ACCESSORIES SHALL COMPLY WITH ADA, ANSI, AND LOCAL AND STATE BUILDING CODE REQUIREMENTS. ALL HEIGHTS, DIMENSIONS AND CLEARANCES FOR PLUMBING FIXTURES, CASEWORK, COUNTERTOPS, ACCESSORIES, SIGNAGE, ACCESSIBLE ROUTES, ECT. SHALL BE STRICTLY HELD TO ADA, ANSI, AND LOCAL AND STATE REQUIREMENTS. IN THE EVENT OF CONFLICTING REQUIREMENTS, THE MOST RESTRICTIVE SHALL APPLY. REFER TO ACCESSIBILITY GUIDELINES SHEET.

TOILET ACCESSORY LEGEND

MARK	ACCESSORIES
1	30" X 36" (UNLESS OTHERWISE NOTED) MIRROR.
2	LIQUID SOAP DISPENSER, MOUNT 5" ABOVE SINK. CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.
3	TOILET PAPER DISPENSER. CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.
4	MANUAL PAPER TOWEL DISPENSER. CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.
5	GRAB BAR 1-1/2" DIA. (SEE ACCESSIBILITY GUIDELINES FOR MOUNTING HEIGHT). INSTALL DUAL HEIGHT GRAB BARS IN AGES 9-12+ ACCESSIBLE RESTROOMS.
6	SANITARY NAPKIN DISPOSAL. MOUNT 28" A.F.F.
7	FOLDING SHOWER SEAT, MOUNT TOP OF SEAT AT 15" HIGH IN CHILD SHOWER AND 17" IN ADULT SHOWER.
8	SHOWER CURTAIN ROD AND SHOWER CURTAIN.
9	ADA SHOWER GRAB BAR 1-1/2" DIA. (SEE ACCESSIBILITY GUIDELINES FOR MOUNTING HEIGHT).
11	24" TOWEL SHELF AND BAR. MOUNT TOP OF SHELF AT 44" A.F.F. UNLESS NOTED OTHERWISE.

KEYED NOTES

- 030 ROOF ACCESS LADDER AND HATCH. SEE ROOF DETAILS A-141.
064 WALL MOUNTED SINK. SEE PLUMBING.
065 OWNER FURNISHED REFRIGERATOR. SEE PLUMBING AND ELECTRICAL FOR ROUGH IN REQUIREMENTS.
416 DOOR AND FRAME. SEE FLOOR PLAN AND DOOR SCHEDULE.
423 FINISH CEILING. SEE RCP.
426 GYPSUM BOARD FINISH. TAPE, TEXTURE, AND PAINT.
429 5'-0" ADA WHEEL CHAIR TURNING SPACE.
432 MOP SINK AND MOP RACK. SEE PLUMBING.
436 PLASTIC LAMINATE CASEWORK.
449 VINYL WALL BASE. SEE FINISH SCHEDULE ID-100.
451 TRANSITION STRIP. SEE ID FINISH LEGEND. ID-100
460 WALL MOUNTED LAVATORY.
476 ELECTRIC WATER COOLER. SEE PLUMBING.
478 SHOWER FIXTURE. SEE PLUMBING.
479 ACCESSIBLE SINK IN SOLID SURFACE COUNTERTOP. SEE PLUMBING.
480 WALL TILE. DASHED LINE ON FLOOR PLAN INDICATES EXTENT OF WALL TILE. SEE ELEVATIONS FOR TILE HEIGHT AND D SHEETS FOR PATTERN.
481 WALL MOUNTED LIGHT FIXTURE. SEE ELECTRICAL.
483 TOILET PARTITION.
484 WATER CLOSET. SEE PLUMBING.
486 WALL MOUNTED URINAL. SEE PLUMBING.
489 27" LONG TRENCH DRAIN. CENTER IN SHOWER OPENING FOR BARRIER FREE ACCESS.
490 INSTALL SHOWER FLOOR TILE OVER 2" MORTAR BED IN RECESSED SLAB. SLOPE SHOWER FLOOR TO DRAIN.

CONSULTANT

CIVIL
Bohannon Huston
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

STRUCTURAL
Walla Engineering Ltd
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

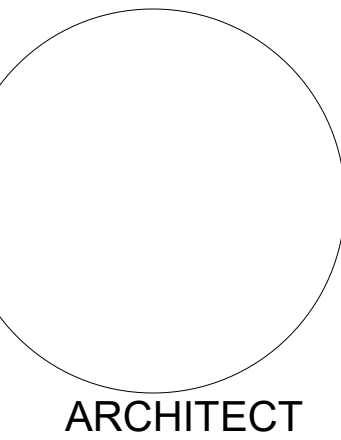
M/E/P/FP
Bridgers and Paxton
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111 f_505.888.1436

INTERIORS
Studio M
6501 Americas Pkwy NE Ste. 301
Albuquerque, NM 87110
p_505.243.9287

SITE
Groundwork Studio
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126

FOOD SERVICE
Standard Kitchen Supply
2405 Candelaria Rd. NE,
Albuquerque, NM 87107
p_505.341.1054

ENVELOPE AND ROOF CONSULTANT
Armstrong Group INC.
2415 Princeton Ave, NE Suite E
Albuquerque, NM 87107
p_505.235.7596



Dzilth-Na-O-Dith-Hle - New Dormitory Building

PRICING SET

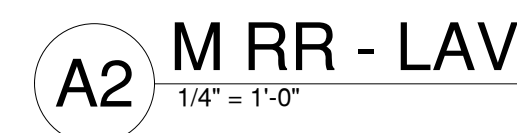
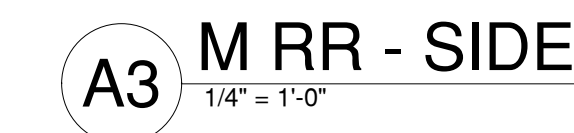
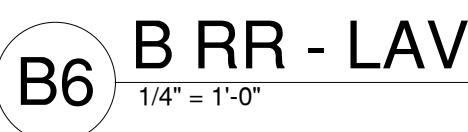
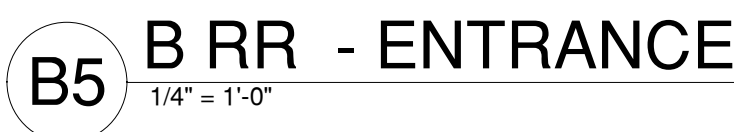
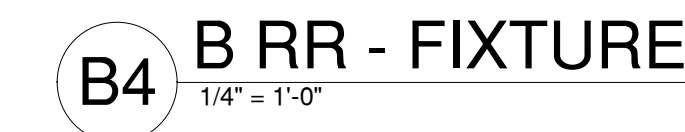
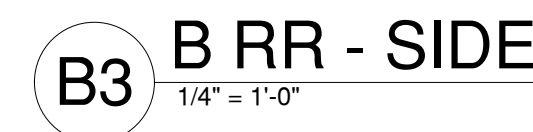
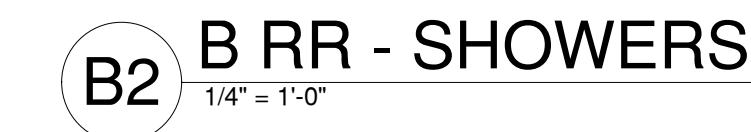
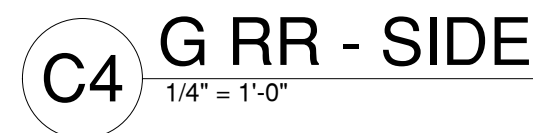
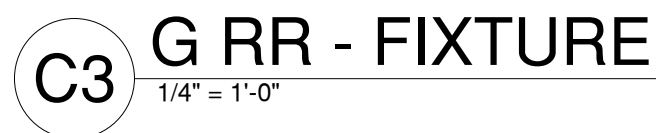
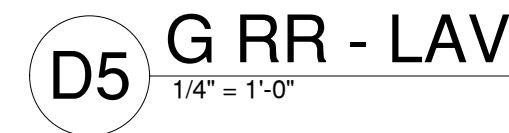
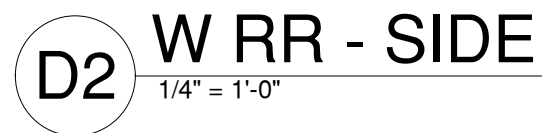
35 Road 7585, Bloomfield, NM 87413

NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
------	------	-------------

ISSUE:	
DATE:	
PROJECT NO:	751
CAD DWG FILE:	
DRAWN BY:	Author
CHECKED BY:	Checker


SHEET TITLE
ENLARGED PLANS AND ELEVATIONS



- A. CONTRACTOR SHALL PERFORM DAILY CLEANUP WHEN FINISH TRADE WORK IS BEING PERFORMED.
- B. PROVIDE WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF PARTITIONS, SIGNAGE, ACCESSORIES, AND OTHER WALL SUPPORTED ITEMS AS REQUIRED.
- C. PROVIDE SEALANT AT INTERSECTIONS OF ALL DISSIMILAR MATERIALS.
- D. COORDINATE ALL PLUMBING FIXTURES WITH THE PLUMBING DRAWINGS. IN CASE OF ANY DISCREPANCY, NOTIFY ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN OF INSTALLATION.
- E. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.
- F. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
- G. ALL FIXTURES AND ACCESSORIES SHALL COMPLY WITH ADA, ANSI, AND LOCAL AND STATE BUILDING CODE REQUIREMENTS. ALL HEIGHT, DIMENSIONS AND CLEARANCES FOR PLUMBING FIXTURES, CASEWORK, COUNTERTOPS, ACCESSORIES, SIGNAGE, ACCESSIBLE ROUTES, ETC. SHALL BE STRICTLY HELD TO ADA, ANSI, AND LOCAL AND STATE REQUIREMENTS. IN THE EVENT OF CONFLICTING REQUIREMENTS, THE MOST RESTRICTIVE SHALL APPLY. REFER TO ACCESSIBILITY GUIDELINES SHEET.

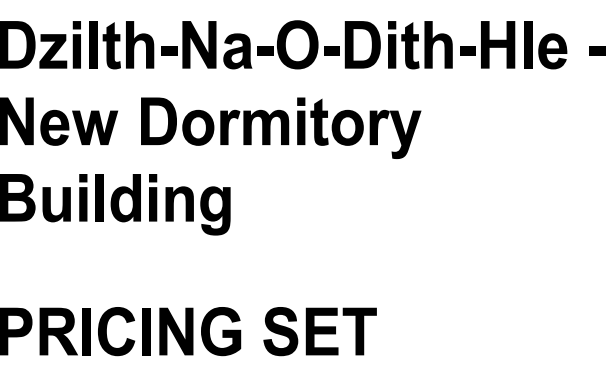
MARK	ACCESSORIES
1	30" X 36" (UNLESS OTHERWISE NOTED) MIRROR.
2	LIQUID SOAP DISPENSER, MOUNT 5" ABOVE SINK. CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.
3	TOILET PAPER DISPENSER, CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.
4	MANUAL PAPER TOWEL DISPENSER, CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.
5	GRAB BAR 1-1/2" DIA. (SEE ACCESSIBILITY GUIDELINES FOR MOUNTING HEIGHT). INSTALL DUAL HEIGHT GRAB BARS IN AGES 9-12+ ACCESSIBLE RESTROOMS.
6	SANITARY NAPKIN DISPOSAL. MOUNT 28" A.F.F.
7	FOLDING SHOWER SEAT. MOUNT TOP OF SEAT AT 15" HIGH IN CHILD SHOWER AND 17" IN ADULT SHOWER.
8	SHOWER CURTAIN ROD AND SHOWER CURTAIN.
9	ADA SHOWER GRAB BAR 1-1/2" DIA. (SEE ACCESSIBILITY GUIDELINES FOR MOUNTING HEIGHT).
11	24" TOWEL SHELF AND BAR. MOUNT TOP OF SHELF AT 44" A.F.F. UNLESS NOTED OTHERWISE.

416 DOOR AND FRAME. SEE FLOOR PLAN AND DOOR SCHEDULE.
417 FINISH CEILING. SEE RCP.
418 GYPSUM BOARD FINISH. PALE, TEXTURE, AND PAINT.
419 5/0" ADA WHEEL CHAIR TURNING SPACE.
420 RCP SINK AND MOP RACK. SEE PLUMBING.
421 PLASTIC LAMINATE CASEWORK.
422 PLASTIC LAMINATE SILL COUNTER.
423 VINYL WALL BASE. SEE FINISH SCHEDULE ID-100.
424 TRANSITION STRIP. SEE FINISH LEGEND ID-100.
425 SHOWER CURTAIN. SEE PLUMBING.
426 ACCESSIBLE SINK AND SURFACE COUNTERTOP. SEE PLUMBING.
427 WALL TILE. DASHED LINE ON FLOOR PLAN INDICATES EXTENT OF WALL TILE.
428 SEE ELEVATIONS FOR TILE HEIGHT AND 0 SHEETS FOR PATTERN.
429 WALL MOUNTED LIGHT FIXTURE. SEE ELECTRICAL.
430 TOILET PARTITION.
431 WATER CLOSET. SEE PLUMBING.
432 URINAL PARTITION.
433 WALL MOUNTED URINAL. SEE PLUMBING.
434 2" LONG TRENCH DRAIN. CENTER IN SHOWER OPENINGS FOR BARRIER FREE
435 ACCESS.
436 INSTALL SHOWER FLOOR TILE OVER 2" MORTAR BED IN RECESSED SLAB.
437 SHOWER FLOOR TILE TO DRAIN.
438



ARCHITECT

A-402

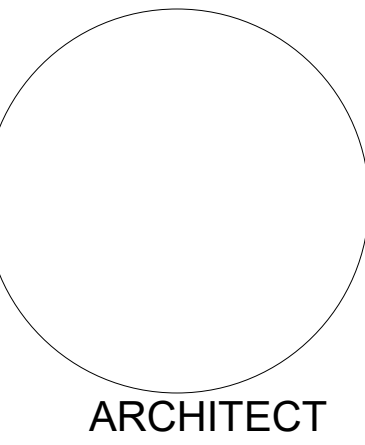


NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
ISSUE:		
DATE:		751
PROJECT NO:		751
CAD DWG FILE:		
DRAWN BY:		Author
CHECKED BY:		Checker

SHEET TITLE

ENLARGED PLANS AND
ELEVATIONS



**Dzilh-Na-O-Dith-Hle -
New Dormitory
Building**

PRICING SET

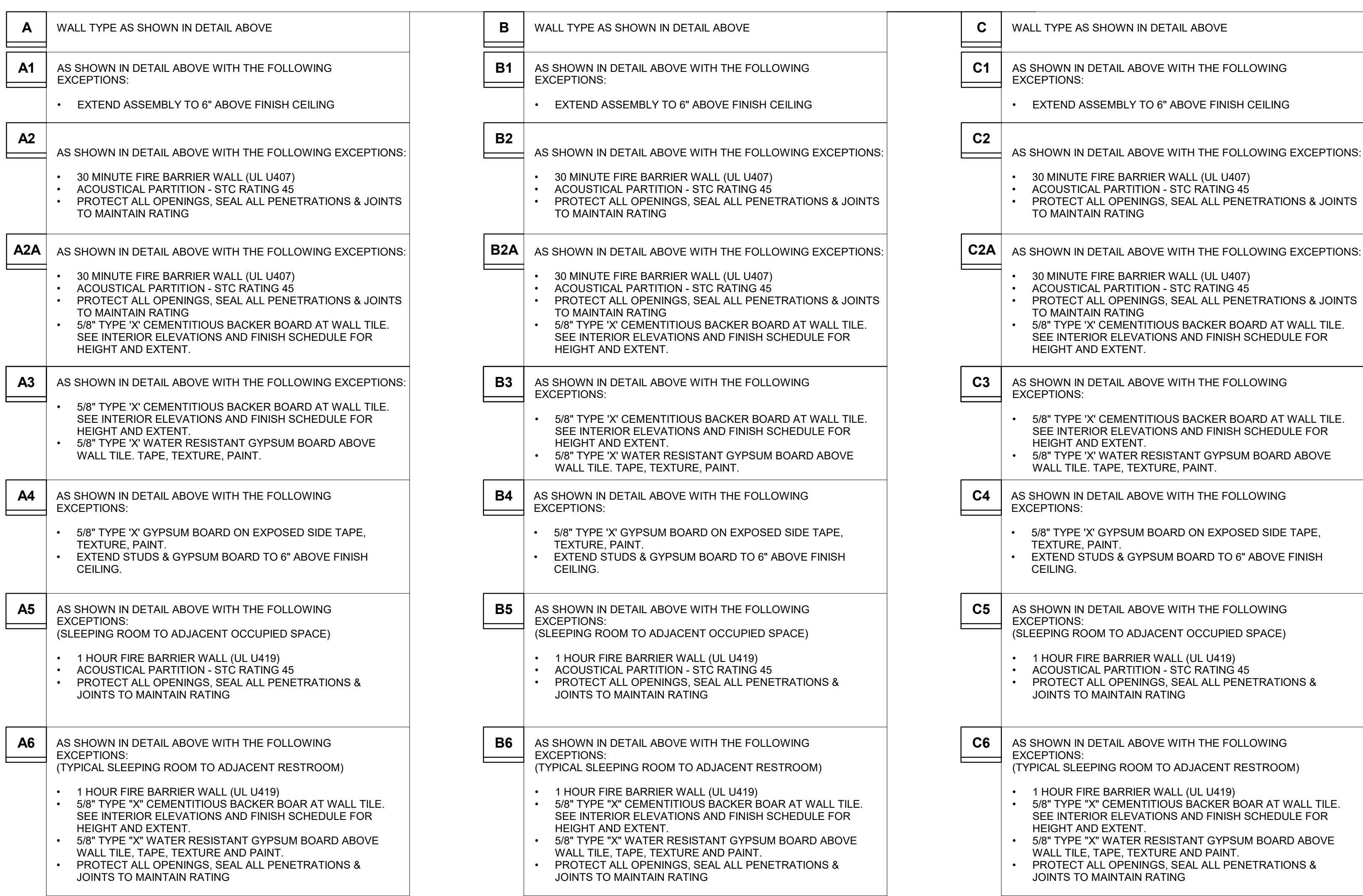
35 Road 7585, Bloomfield, NM
87413

NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
ISSUE:		
DATE:		751
PROJECT NO:		751
CAD DWG FILE:		
DRAWN BY:		Author
CHECKED BY:		Checker

SHEET TITLE

ENLARGED PLANS AND
ELEVATIONS



NOTE: NOT ALL PARTITION TYPES ARE USED IN THIS PROJECT

- A. BACK TO BACK OUTLETS WILL NOT BE ALLOWED.
- B. FURNISH AND INSTALL ACOUSTIC SEALANT AT FLOOR TO PARTITION CONNECTIONS.
- C. FURNISH AND INSTALL ACOUSTIC SEALANT AT ALL PENETRATIONS FOR UTILITIES, HVAC, SPRINKLERS, CONDUITS, ETC. AS THEY PENETRATE STC RATED PARTITIONS. SUPPORT PENETRATIONS ON EACH SIDE OF PARTITION TO AVOID MECHANICAL CONTACT WITH STUDS OR GYPSUM BOARD.
- D. SPACES BETWEEN ITEMS PENETRATING STC RATED PARTITIONS AND THE PARTITION ITSELF SHALL BE SEALED USING ACOUSTIC SEALANT AND BACKER MATERIAL (GLASS FIBER INSULATION OR ROCK WOOL).

- A. FURNISH AND INSTALL SEALANT AT INTERSECTION OF ALL DISSIMILAR MATERIALS.
- B. FURNISH AND INSTALL WOOD BLOCKING IN ALL WALLS FOR SUPPORT OF TOILET PARTITIONS, SIGNAGE, ACCESSORIES OR OTHER WALL-SUPPORTED ITEMS AS REQUIRED.
- C. FURNISH AND INSTALL WATER RESISTANT GYPSUM BOARD IN KITCHEN, RESTROOMS, CUSTODIAL ROOMS AND ALL WET AREAS.
- D. SEE FLOOR PLANS FOR EXTENT OF RATED ASSEMBLIES.
- E. SEE BUILDING AND WALL SECTIONS FOR ADDITIONAL INFORMATION OF INTERIOR WALLS THAT EXTEND ABOVE THE ROOF PLANE AND EXTERIOR WALLS. COORDINATE WITH STRUCTURAL.
- F. SEE REFLECTED CEILING PLAN FOR ALL CEILING INFORMATION.
- G. AT ALL LOCATIONS OF EXPOSED CEILING STRUCTURE ALL CMU WALLS SHALL BE PAINTED TO ROOF DECK AND ALL STEEL STUD WALLS SHALL BE TAPE, TEXTURED AND PAINTED TO UNDERSIDE OF ROOF DECK. CONTROL ALL PAINT AND TEXTURE OVERSPRAY AT THESE LOCATIONS. OVERSPRAY ON EXPOSED ROOF DECK WILL BE ACCEPTED.
- H. SEE STRUCTURAL DRAWINGS FOR LOCATIONS AND DETAIL OF LOAD BEARING STEEL STUDS OR CMU WALLS.
- I. PARTITION GAUGE SHALL COMPLY WITH DEFLECTION AND LOADING CRITERIA INDICATED IN THE SPECIFICATIONS.
- J. FURNISH AND INSTALL WALL TILE ON 6" TYPE X CEMENTitious BACKER BOARD TO HEIGHT INDICATED IN INTERIOR ELEVATIONS IN ALL RESTROOMS AT ALL DRINKING FOUNTAINS.
- K. SEE FLOOR PLANS AND ID SHEETS FOR INTERIOR FINISH INFORMATION.
- L. NO RIGID INSULATION SHALL BE EXPOSED INSIDE THE BUILDING ENVELOPE. COVER ALL INSULATION WITH GYPSUM BOARD, TAPE BED AND SEAL ALL GAPS AT DECK WITH FIRE/SMOKE SEALANT.
- M. FURNISH AND INSTALL SLIP TYPE HEAD JOINTS AT ALL STEEL STUD PARTITIONS THAT EXTEND TO DECK.
- N. FURNISH AND INSTALL FIRE STOP TRACKS AT ALL FIRE RATED STEEL STUD PARTITIONS.
- O. PARTITIONS THAT HAVE MULTIPLE LAYERS OF GYPSUM BOARD SHALL BE CONTINUOUS ALONG WALL SURFACE. STAGGERED OR STEPPED WALL SURFACES WILL NOT BE ACCEPTED.



CIVIL
Bohannon Huston
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

STRUCTURAL
Walla Engineering Ltd
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

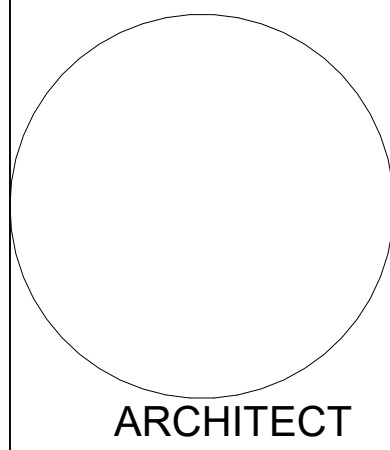
M/E/P/FP
Briggers and Paxton
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111 f_505.888.1436

INTERIORS
Studio M
6501 Americas Pkwy NE Ste. 301
Albuquerque, NM 87110
p_505.243.9287

SITE
Groundwork Studio
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126

FOOD SERVICE
Standard Kitchen Supply
2405 Candelaria Rd. NE,
Albuquerque, NM 87107
p_505.341.1054

ENVELOPE AND ROOF CONSULTING
Armstrong Group INC.
2415 Princeton Ave. NE Suite E
Albuquerque, NM 87107
p_505.235.7596



PRICING SET

NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
ISSUE:		
DATE:		
PROJECT NO:		751
CAD DWG FILE:		
DRAWN BY:		Author
CHECKED BY:		Checker

SHEET TITLE
PARTITION SCHEDULE

A-501

WINDOW SHADE LEGEND			
WINDOW TYPES	SIZE		SHADE TYPE
	WIDTH	HEIGHT	
J			MANUAL ROLLER SHADE
K			MANUAL ROLLER SHADE

- A. GROUT ALL HOLLOW METAL DOOR FRAMES SOLD.
- B. FINISH AND INSTALL PAINTABLE SEALANT AT INTERSECTION OF METAL DOOR FRAME AND MULLION GLAZING.
- C. PAINT ALL VISIBLE SURFACES OF HOLLOW METAL GLASS STOPS.
- D. ALL FRAME DIMENSIONS AND PROFILES ARE TO BE FIELD VERIFIED.
- E. METAL INSERTS FOR GLASS SHALL BE 1-1/4" MAX. PAINT ALL VISIBLE SURFACES OF INSERTS.
- F. FINISH ALL METAL DOORS AND FRAMES. COLOR TO BE AS SELECTED BY ARCHITECT.
- G. LOCATE ROOM IDENTIFICATION SIGNS AT ALL DOORS AS INDICATED ON SHEET 4-A601 DOOR SCHEDULES.
- H. LOCATE ROOM IDENTIFICATION SPECIFICATIONS FOR SIZE AND TYPE OF SIGNS. LOCATE EVACUATION SIGNS AT EACH END OF ALL CORRIDORS. LOCATE EXIT SIGNS AT ALL VESTIBULE DOORS.
- I. COORDINATE FINAL LOCATION OF ALL BUILDING SIGNS WITH OWNER.
- J. LOCATE ALL PROJECT IDENTIFICATION SIGNS.
- K. GLASS IN ALL EXTERIOR DOORS AND/OR DOOR FRAMES SHALL BE INSULATED GLAZING.
- L. PROVIDE SCHEDULES FOR HARDWARE SCHEDULE AND INFORMATION TO CENTER MULLION TYPICAL ON ALL DOUBLE-LEAF DOORS UNLESS NOTED ON SHEET 4-A601 DOOR SCHEDULES.
- M. PROVIDE INFORMATION ON ALL EVACUATION SIGNS AT ALL ROOMS THAT DO NOT HAVE DOORS.

HMP/	-	HOLLOW METAL/PAINT
ALUM	-	ALUMINUM SYSTEM FINISH TO BE SELECTED BY ARCHITECT
W/SV	-	WOOD SOLID CORE / STAIN & VARNISH
1" ISG	-	1" INSULATED SAFETY GLASS
1/4" SG -	1/4"	SAFETY GLASS
1/4" FG -	1/4"	FIRE GLASS
SS	-	STAINLESS STEEL
SGG	-	SCHOOL GUARD GLASS



CIVIL
Bohannon Huston
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

STRUCTURAL

Walla Engineering Ltd
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

M/E/P/FP

Bridgers and Paxton
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p 505.883.4111 f 505.888.1436

INTERIORS

Studio M
6501 Americas Pkwy NE Ste. 301
Albuquerque, NM 87110
p_505.243.9287

SITE

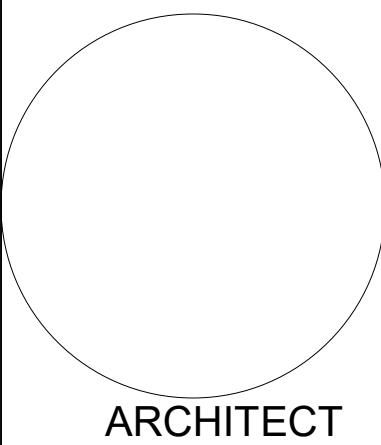
Groundwork Studio
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126

FOOD SERVICE

Standard Kitchen Supply
2405 Candelaria Rd. NE,
Albuquerque, NM 87107
p_505.341.1054

ENVELOPE AND ROOF CONSULTANT

Armstrong Group INC.
2415 Princeton Ave, NE Suite E
Albuquerque, NM 87107
p_505.235.7596



**Dzilh-Na-O-Dith-Hle -
New Dormitory
Building**

PRICING SET

35 Road 7585, Bloomfield, NM
87413

NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
ISSUE:		
DATE:		
PROJECT NO:		751
CAD DWG FILE:		
DRAWN BY:		Author
CHECKED BY:		Checker

SHEET TITLE

DOOR-WINDOW SCHEDULE

A-601

ROOM FINISH LEGEND				DZ - DORMATORY & SCHOOL				
CARPET TILES - 12" X 24"								
		CPT1	MANUFACTURER:		SHAW CONTRACT FLOORING			
			STYLE/ COLLECTION:		THINK/ MINDFUL PLAY			
			COLOR:		TBD			
NOTE:				INSTALLATION METHOD: (CONFIRM @ TIME OF INSTALL.)				
CARPET TILES - 18" X 36"								
		CPT2	MANUFACTURER:		SHAW CONTRACT FLOORING			
			STYLE/ COLLECTION:		ENCLAVE / SHIFTING FIELDS			
			COLOR:		TBD			
NOTE:				INSTALLATION METHOD: (CONFIRM @ TIME OF INSTALL.)				
WALK-OFF MODULAR TILE - 24" X 24" - 10'-0" IN THE DIRECTION OF TRAVEL								
		CPT3	MANUFACTURER:		INTERFACE COMMERCIAL			
			STYLE:		SUPER FLOR			
			COLOR:		TBD			
NOTE:				INSTALLATION METHOD: $\frac{1}{4}$ TURNED INSTALLATION				
VINYL COMPOSITION TILE 12" X 12"								
BASE BID			MANUFACTURER:		ARMSTRONG COMMERCIAL TILE			
			STYLE/ COLLECTION:		PREMIUM EXCELOM/ CROWN TEXTURE			
FIELD 40%	VCT1		COLOR:		TBD			
FIELD 30%	VCT2		COLOR:		TBD			
ACCENT 10%	VCT3		COLOR:		TBD			
ACCENT 10%	VCT4		COLOR:		TBD			
ACCENT 10%	VCT5		COLOR:		TBD			
LUXURY VINYL TILE - 12" X 24"								
ADD ALT. #1			MANUFACTURER:		MANNINGTON COMMERCIAL			
			STYLE/ COLLECTION:		STRIDE & GROOVE/ COLOR ANCHOR			
FIELD 40%	LVT1		COLOR:		TBD			
FIELD 30%	LVT2		COLOR:		TBD			
ACCENT 10%	LVT3		COLOR:		TBD			
ACCENT 10%	LVT4		COLOR:		TBD			
ACCENT 10%	LVT5		COLOR:		TBD			
PORCELAIN FLOOR TILE - 24" X 24"								
RESTROOMS			MANUFACTURER:		DAL TILE			
		FT1	SERIES:		TBD			
			COLOR:		TBD			
NOTE:				INSTALLATION METHOD: RUNNING BOND				
PORCELAIN WALL TILE BASE - 12" X 24" (CUT IN FIELD FOR 6" APPLICATION								
		PWB	MANUFACTURER:		DAL TILE			
			SERIES:					
			COLOR:					
NOTE:				EPOXY FLOOR GROUT: MFG: LATICRETE - COLOR: TBD				
PORCELAIN STONE TILE - 6" X 6" (PTG) & WALL BASE (PTGB)								
KITCHEN		PTG/ PTGB	MANUFACTURER:		DAL TILE			
				SERIES:		SURETREAD		
				COLOR:		TBD		
NOTE:				EPOXY FLOOR GROUT: MFG: LATICRETE - COLOR: TBD				
SPORTS FLOORING - MULTI-USE GYM								
		SPF	MANUFACTURER:		TARKETT SPORTS FLOORING			
				SERIES:		OMNISPORTS - CLASS 2		
				COLOR:		TBD		
SEALED CONCRETE								
			MANUFACTURER:		REFER TO PROJECT SPECIFICATION MANUAL			
4" VINYL WALL COVE BASE								
		VB1	MANUFACTURER:		JOHNSONITE			
			COLOR:		TBD			

WOOD ATHLETIC FLOORING			
		MANUFACTURER:	AACER SPORTS FLOORING
		SERIES:	AACER CRUSH II
		WOOD SPECIES:	TBD
FLOOR TRANSITION			
		MANUFACTURER:	SCHLUTER SYSTEMS
LVT/ CARPET		SERIES:	CONTRACTOR TO PROVIDE
LVT/ PORCELAIN TILE		FINISH:	SATIN ANODIZED ALUMINUM
WALLS			
WALL TILE - GLAZED TILE - 8" X 24"			
		MANUFACTURER:	DALTILE
		COLLECTION:	COLOR WHEEL - LINEAR
FIELD 50%	WT 1	COLOR:	TBD
ACCENT 30%	WT 2	COLOR:	TBD
ACCENT 10%	WT 3	COLOR:	TBD
ACCENT 10%	WT 3	COLOR:	TBD
NOTE: WALL GROUT: MFG: LATICRETE - COLOR: TBD			
CORNER BEAD - EDGE PROTECTION AT 90 DEGREE OUTSIDE CORNER			
		MANUFACTURER:	SCHLUTER SYSTEMS
		SERIES:	ED/RO 100E
		FINISH:	SATIN ANODIZED ALUMINUM
		SIZE:	3/8" X 10'-0" CUT TO LENGTH
PAINT			
		MANUFACTURER:	DUNN EDWARDS
FIELD	PT1	COLOR:	
HMDF	PT2	COLOR:	
ACCENT	PT3	COLOR:	
ACCENT	PT4	COLOR:	
ACCENT	PT5	COLOR:	
FRP PANEL			
JANITOR		MANUFACTURER:	MARLITE PANEL SYSTEMS
	FRP1	FINISH:	PEBBLED SURFACE
		COLOR :	# P100 WHITE
PLASTIC LAMINATE			
		MANUFACTURER:	TBD
PL1		COLOR:	TBD
LOCATION:	HORIZONTAL/ UPPER CASEWORK IN BREAKROOM		
		MANUFACTURER:	TBD
PL2		COLOR:	TBD
LOCATION:	LOWER CASEWORK IN BREAKROOM		
		MANUFACTURER:	TBD
PL3		COLOR:	TBD
		MANUFACTURER:	TBD
PL4		COLOR:	TBD

CONSULTANT

CIVIL
Bohannon Huston
7500 Jefferson St NE,
Albuquerque, NM 87109
p_505.823.100

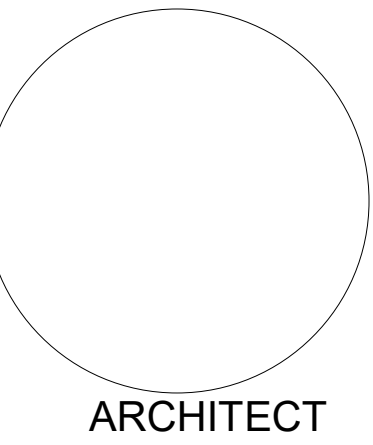
STRUCTURAL
Walla Engineering Ltd
6501 Americas Pkwy NE Ste. 302
Albuquerque, NM 87110
p_505.243.9287

M/E/P/FP
Bridgers and Paxton
4600-C Montgomery Blvd. NE
Albuquerque, New Mexico 87109
p_505.883.4111 f_505.888.1436

SITE
Groundwork Studio
6501 Americas Pkwy NE Ste. 350
Albuquerque, NM 87110
p_505.212.9126

FOOD SERVICE
Standard Kitchen Supply
2405 Candelaria Rd. NE,
Albuquerque, NM 87107
p_505.341.1054

ENVELOPE AND ROOF CONSULT
Armstrong Group INC.
2415 Princeton Ave, NE Suite E
Albuquerque, NM 87107
p_505.235.7596



Dzilth-Na-O-Dith-Hle - New Dormitory Building

PRICING SET

35 Road 7585, Bloomfield, NM
87413

NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
ISSUE:		
DATE:		751
PROJECT NO:		751
CAD DWG FILE:		
DRAWN BY:		Author
CHECKED BY:		Checker

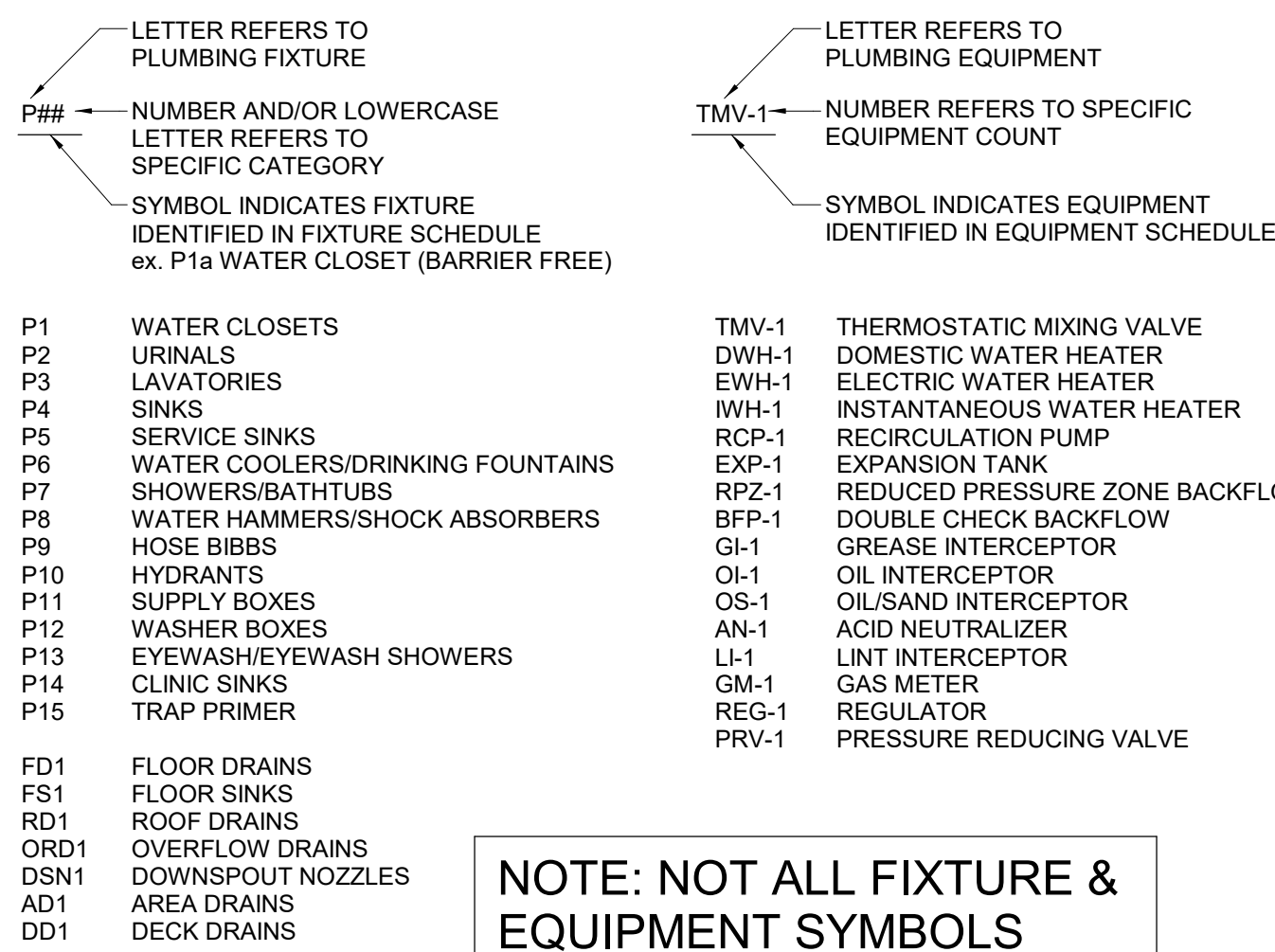
SHEET TITLE

INTERIOR FINISH LEGEND

ID-101

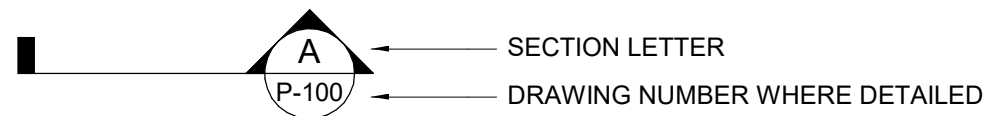
PLUMBING SYMBOL LEGEND

PLUMBING FIXTURE & EQUIPMENT SYMBOL

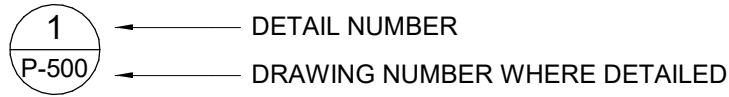


NOTE: NOT ALL FIXTURE & EQUIPMENT SYMBOLS APPLY TO THIS PROJECT

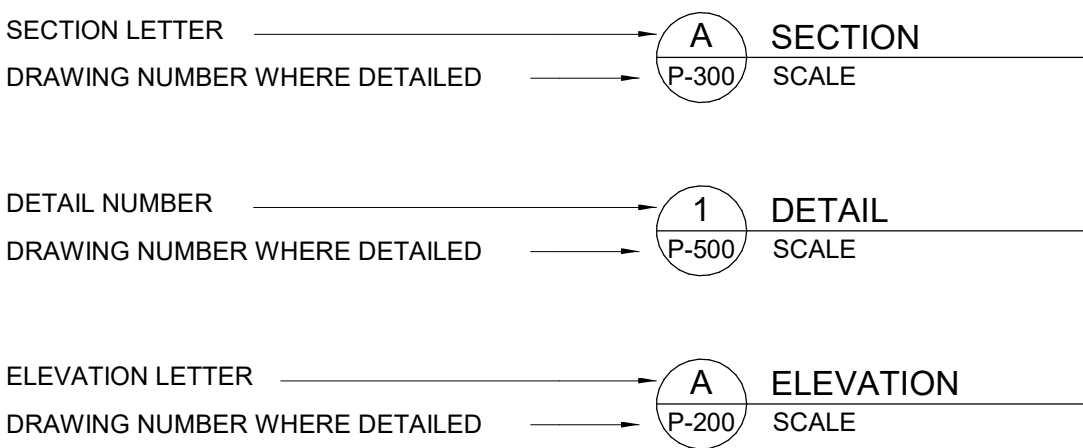
SECTION SYMBOL



DETAIL SYMBOL



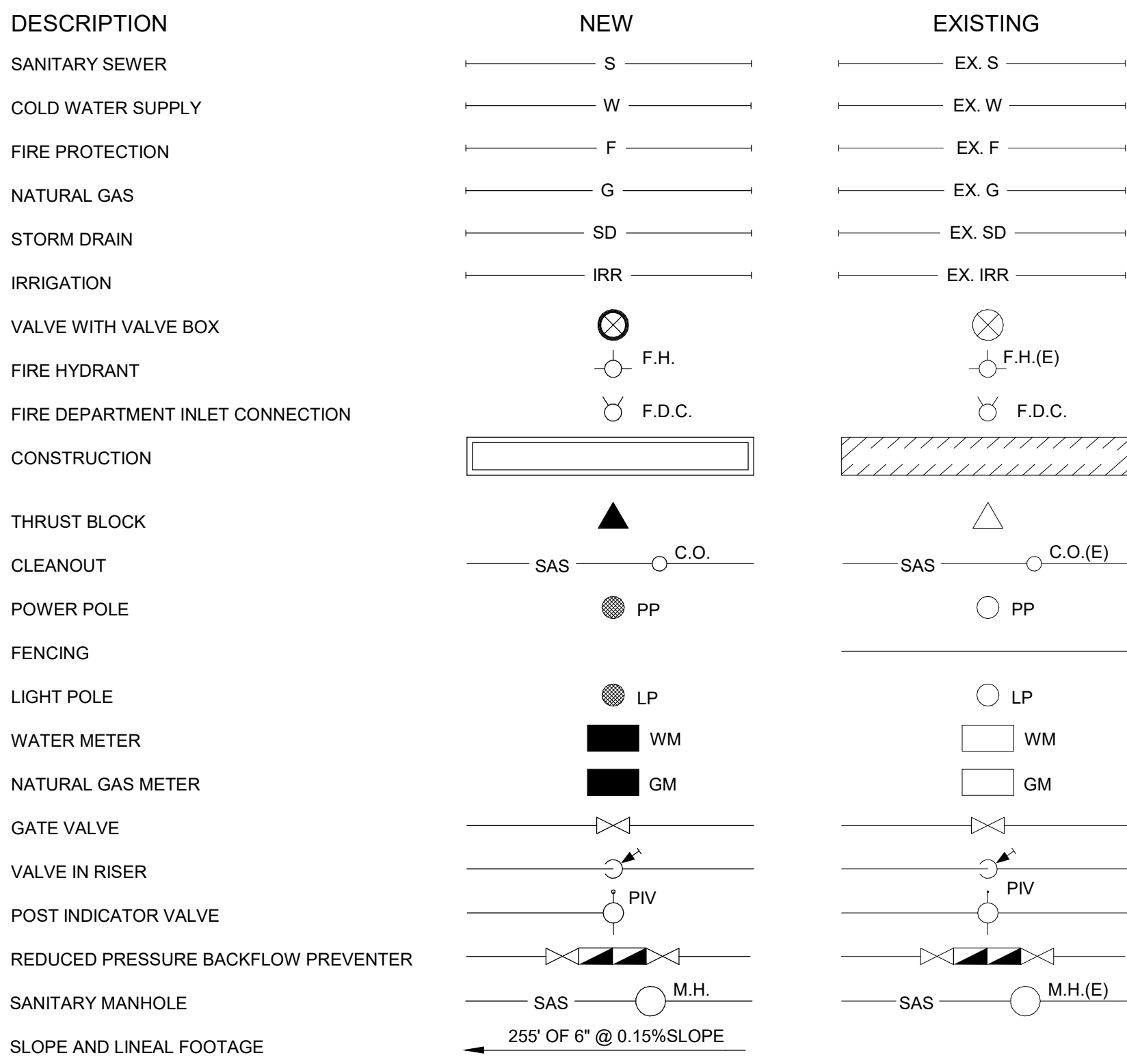
SECTION, ELEVATION, AND DETAIL TITLES



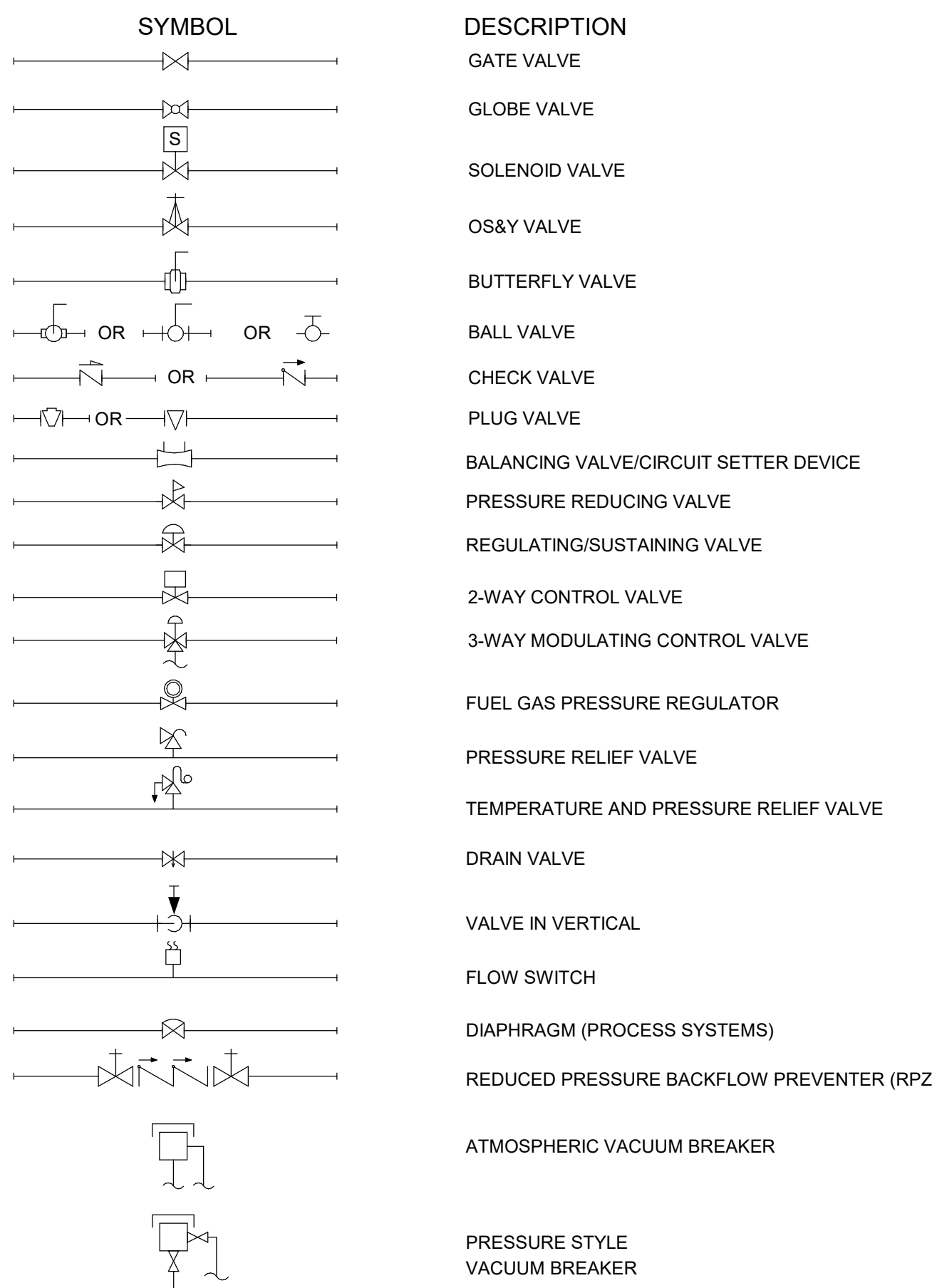
PIPING SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
AV	AV	ACID VENT
AW	AW	ACID WASTE
CA	CA	COMPRESSED AIR
CD	CD	CONDENSATE DRAIN
DCW	DCW	DOMESTIC COLD WATER
DHW	DHW	DOMESTIC HOT WATER
DHWR	DHWR	DOMESTIC HOT WATER RETURN
DHW 140°F	DHW 140°F	140° DOMESTIC HOT WATER
DHWR 140°F	DHWR 140°F	140° DOMESTIC HOT WATER RETURN
ROS	ROS	REVERSE OSMOSIS SUPPLY
ROR	ROR	REVERSE OSMOSIS RETURN
MU	MU	MAKE-UP WATER
NPW	NPW	NON-POTABLE WATER
V	V	VENT
DIS	DIS	DEIONIZED WATER SUPPLY
DIR	DIR	DEIONIZED WATER RETURN
SAN	SAN	SANITARY SEWER
GW	GW	GREASE WASTE
GV	GV	GREASE VENT
RD	RD	STORM/ROOF DRAIN
ORD	ORD	OVERFLOW ROOF DRAIN
LPG	LPG	LIQUEFIED PETROLEUM GAS
G	G	NATURAL GAS-LOW PRESSURE
NGM	NGM	NATURAL GAS-MEDIUM PRESSURE
NGH	NGH	NATURAL GAS-HIGH PRESSURE
IRR	IRR	IRRIGATION
SCW	SCW	SOFT COLD WATER
SHW	SHW	SOFT HOT WATER
TWR (L...)	TWR	TEMPERED WATER RETURN (TEMP °F)
TW (L...)	TW	TEMPERED WATER (TEMP °F)
PD	PD	PUMPED DISCHARGE LINE
ICW	ICW	INDUSTRIAL COLD WATER
IHW	IHW	INDUSTRIAL HOT WATER
IHR	IHR	INDUSTRIAL HOT WATER RETURN
INW	INW	INDUSTRIAL WASTE
IA	IA	INSTRUMENT COMPRESSED AIR
IW	IW	INDIRECT WASTE
LA	LA	LAB COMPRESSED AIR

SITE UTILITY SYMBOLS



VALVE SYMBOLS

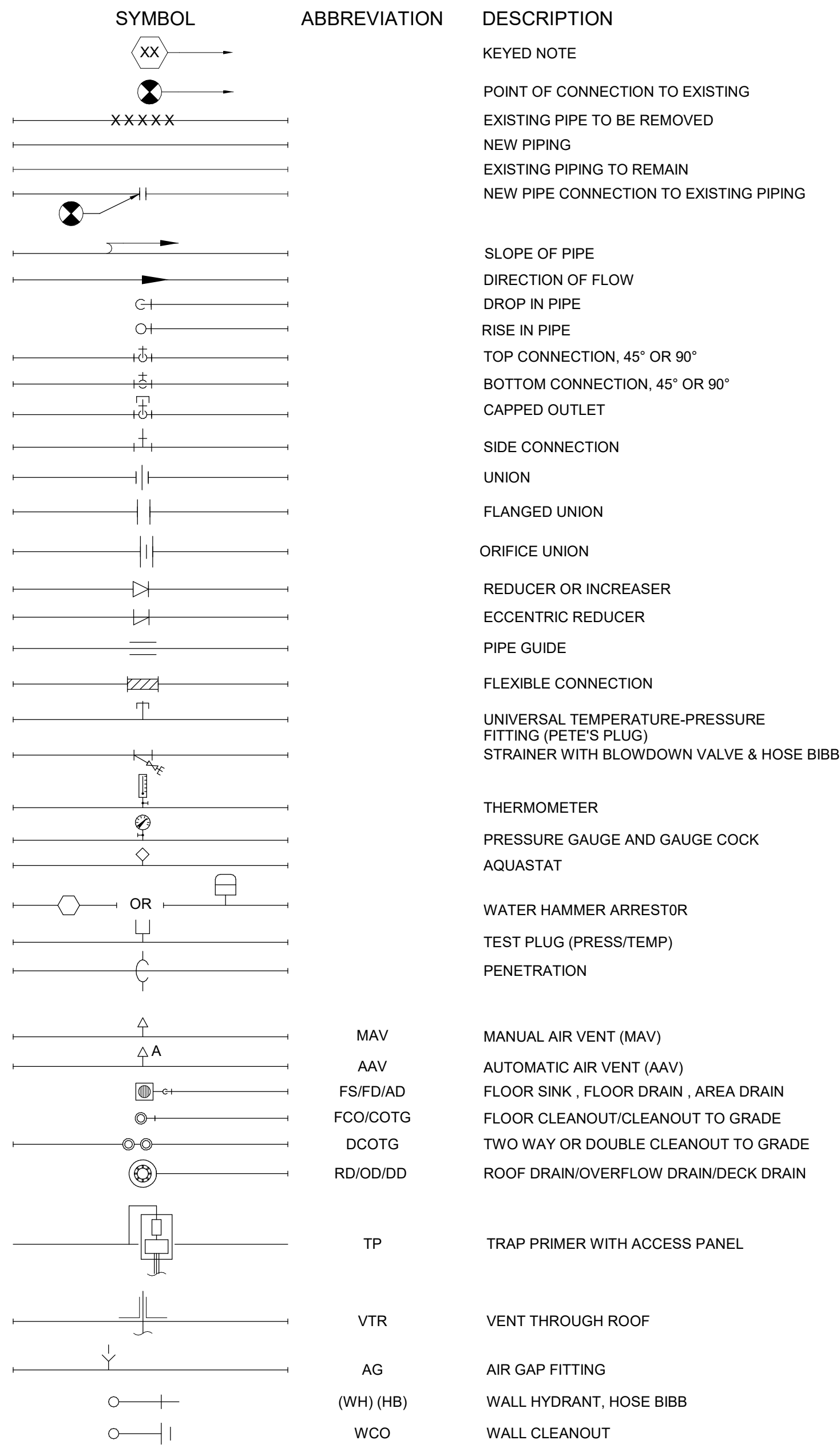


ABBREVIATIONS

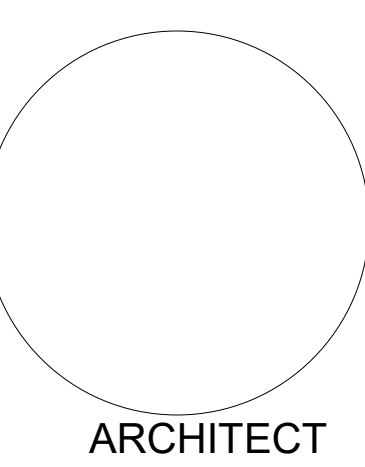
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANT	ACID NEUTRALIZING TANK
AVTR	ACID RESISTANT VENT THROUGH ROOF
B.C.	BALANCING COCK
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CWB	CLOTHES WASHER BOX
CFH	CUBIC FEET PER HOUR
CO	CLEANOUT
COTG	CLEANOUT TO GRADE
CP	CIRCULATION PUMP
CWV	COMBINATION WASTE AND VENT
DCO	DOUBLE CLEANOUT
DCOTG	DOUBLE CLEANOUT TO GRADE
DF	DOWN
DN	DOWNSPOUT
DS	DOWNSPOUT NOZZLE
EL	ELEVATION
ELW	ELECTRIC WATER HEATER
EW	ELECTRIC WATER COOLER
EEW	EMERGENCY EYEWASH
ES	EMERGENCY SHOWER
ESEW	EMERGENCY SHOWER EYE WASH
F	DEGREES FAHRENHEIT
FCO	FLOOR CLEANOUT
FFE	FINISHED FLOOR ELEVATION
FT	FEET
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FOV	FUEL OIL VENT
FV	FLUSH VALVE
GD	GUTTER DRAIN
GI	GREASE INTERCEPTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GWH	GAS WATER HEATER
HB	HOSE BIBB
HD	HEAD
HP	HORSEPOWER
IN	INCHES
INV	INVERT
KW	KILOWATT
MBh	1,000 BTUH
MV	MIXING VALVE
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
No. #	NUMBER
N.O.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
OS&Y	OUTSIDE SCREW AND YOKE
PH	PHASE
PH	POUNDS OF HARDNESS
PSIG	POUNDS PER SQUARE INCH GAUGE
SP	STATIC PRESSURE
TD	TRENCH DRAIN
TYP	TYPICAL
YB	YARD BOX
YH	YARD HYDRANT
WCO	WALL CLEANOUT
WCO	WATER CLOSET

NOTE: NOT ALL ABBREVIATIONS OR SYMBOLS APPLY TO THIS PROJECT

SCHEMATIC SYMBOLS



CONSULTANT



Dzilth-Na-O-Dith-Hle -
New Dormitory
Building

PRICING SET

35 Road 7585, Bloomfield, NM
87413

NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
------	------	-------------

ISSUE:	
DATE:	
PROJECT NO:	751
CAD DWG FILE:	
DRAWN BY:	AJM/SNB
CHECKED BY:	IM

SHEET TITLE
PLUMBING LEGEND


P-001



PL-101

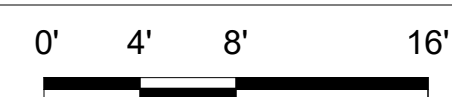


1. COORDINATE ROOF DRAIN LOCATION WITH ARCHITECTURAL ROOF PLANS AND STRUCTURAL PLANS.
2. PRIMARY AND OVERFLOW LEADERS DOWN TO BELOW.
3. ROUTE ROOF DRAINS TIGHT TO STRUCTURE.
4. WATER METER FOR MAKE-UP MEASUREMENT, COORDINATE WITH CONTROLS.
5. REDUCED PRESSURE ZONE BACKFLOW PREVENTER SERVING AHU



ARCHITECT

PL-131



1. 3/4" DOMESTIC COLD WATER UP TO RPZ SERVING AHU AND WATER METER IN PENTHOUSE.

PP-101



KEYNOTES

1. 4" ROOF DRAIN DROP FROM ABOVE. REFER TO DRAWING P-701 FOR ROOF DRAIN FIXTURE.
2. STRUCTURAL FOOTING, TYPICAL.
3. VENT UP THROUGH ROOF. REFER TO DRAWING PL-131 FOR CONTINUATION.

CONSULTANT



**BRIDGERS
& PAXTON**

4600 C Montgomery Blvd. NE
Albuquerque, NM 87109 | 505.883.4111 | www.bpce.com

ARCHITECT

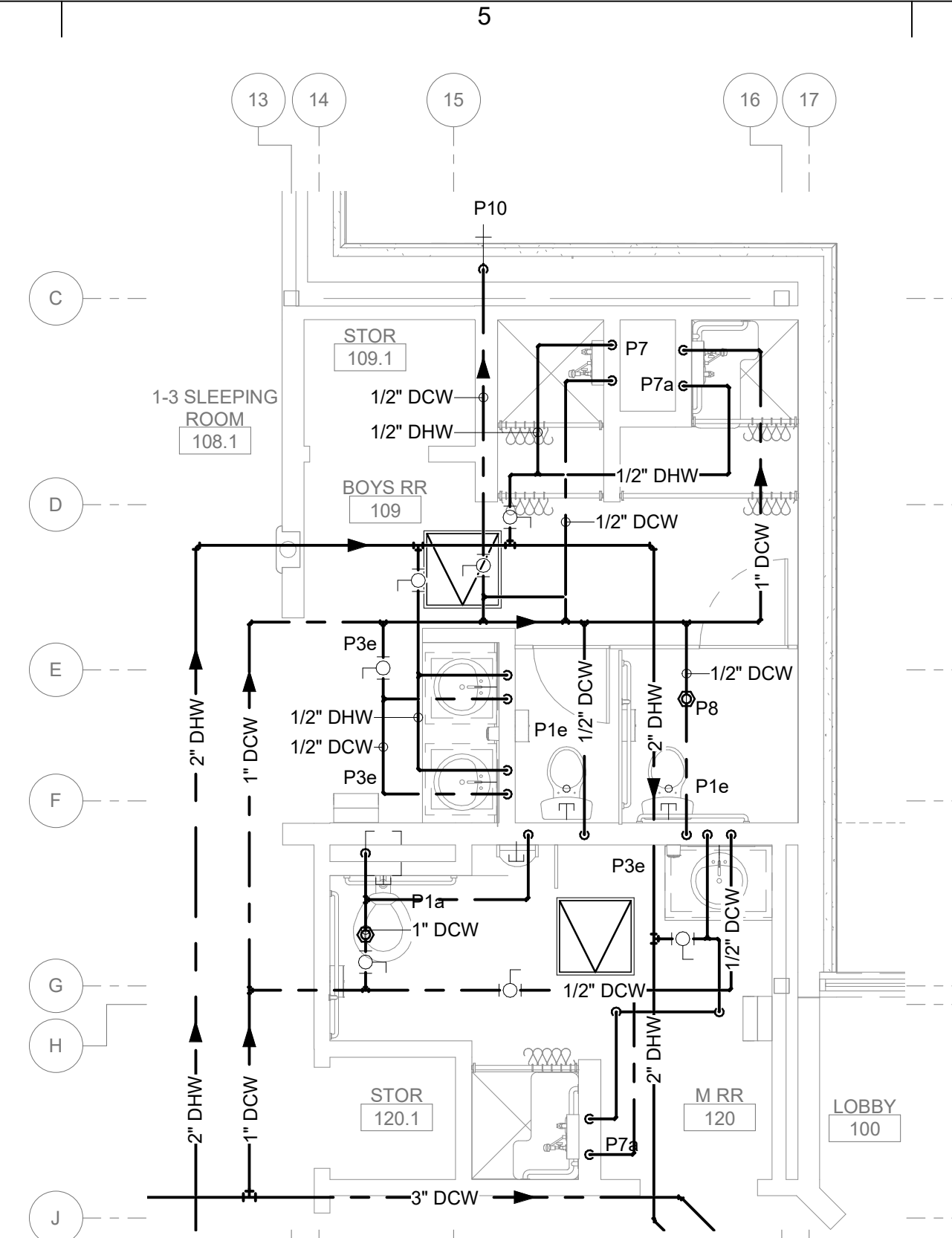
NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
ISSUE:		
DATE:		
PROJECT NO:		751
CAD DWG FILE:		
DRAWN BY:		AJM/SNB
CHECKED BY:		IM

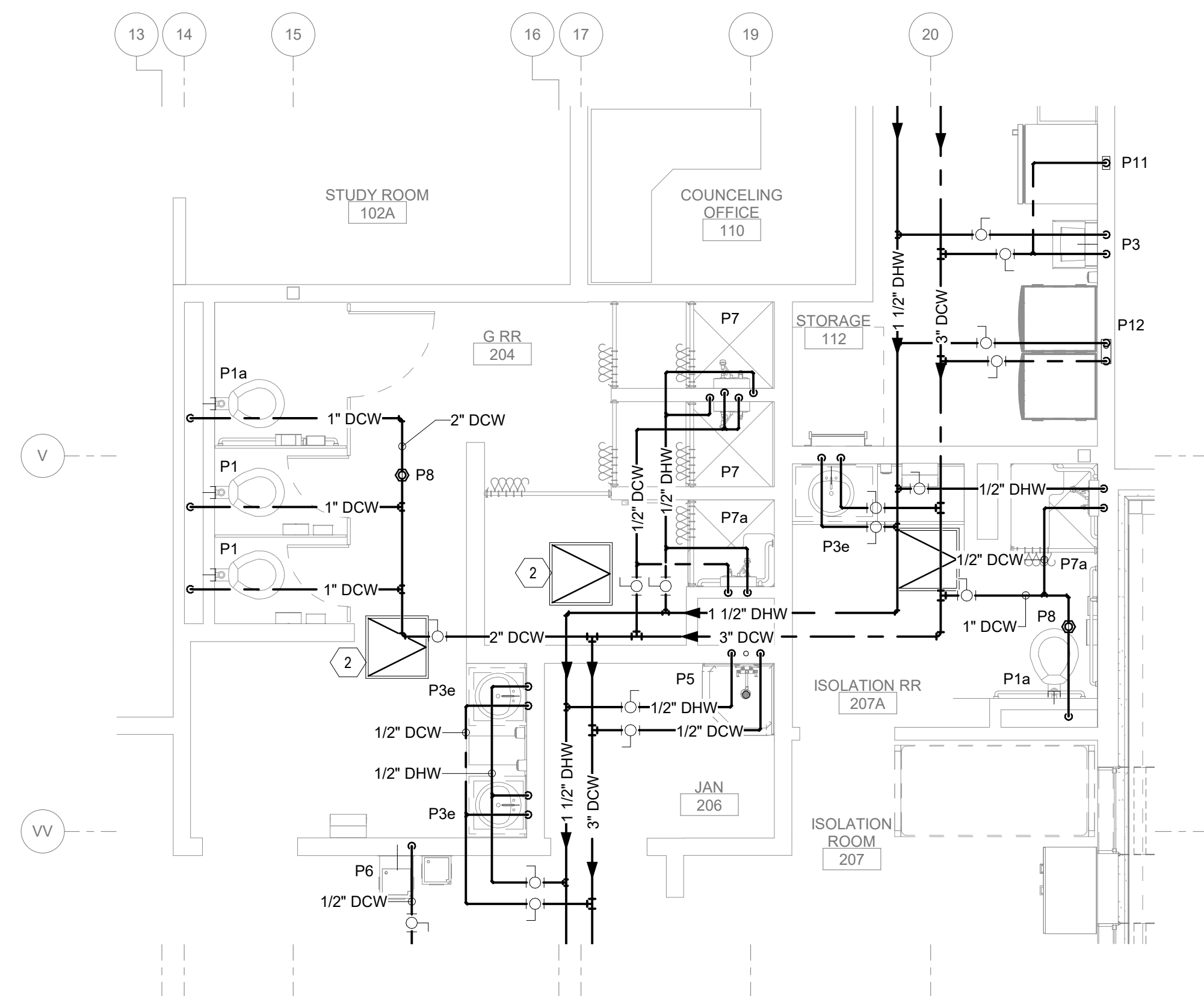
SHEET TITLE

ENLARGED PLUMBING PLANS

P-401



D5 ENLARGED PRESSURE PIPING PLAN - BOYS RR 109
1/4" = 1'-0"



A3 ENLARGED PRESSURE PIPING PLAN - GIRLS RR 204 / STOR

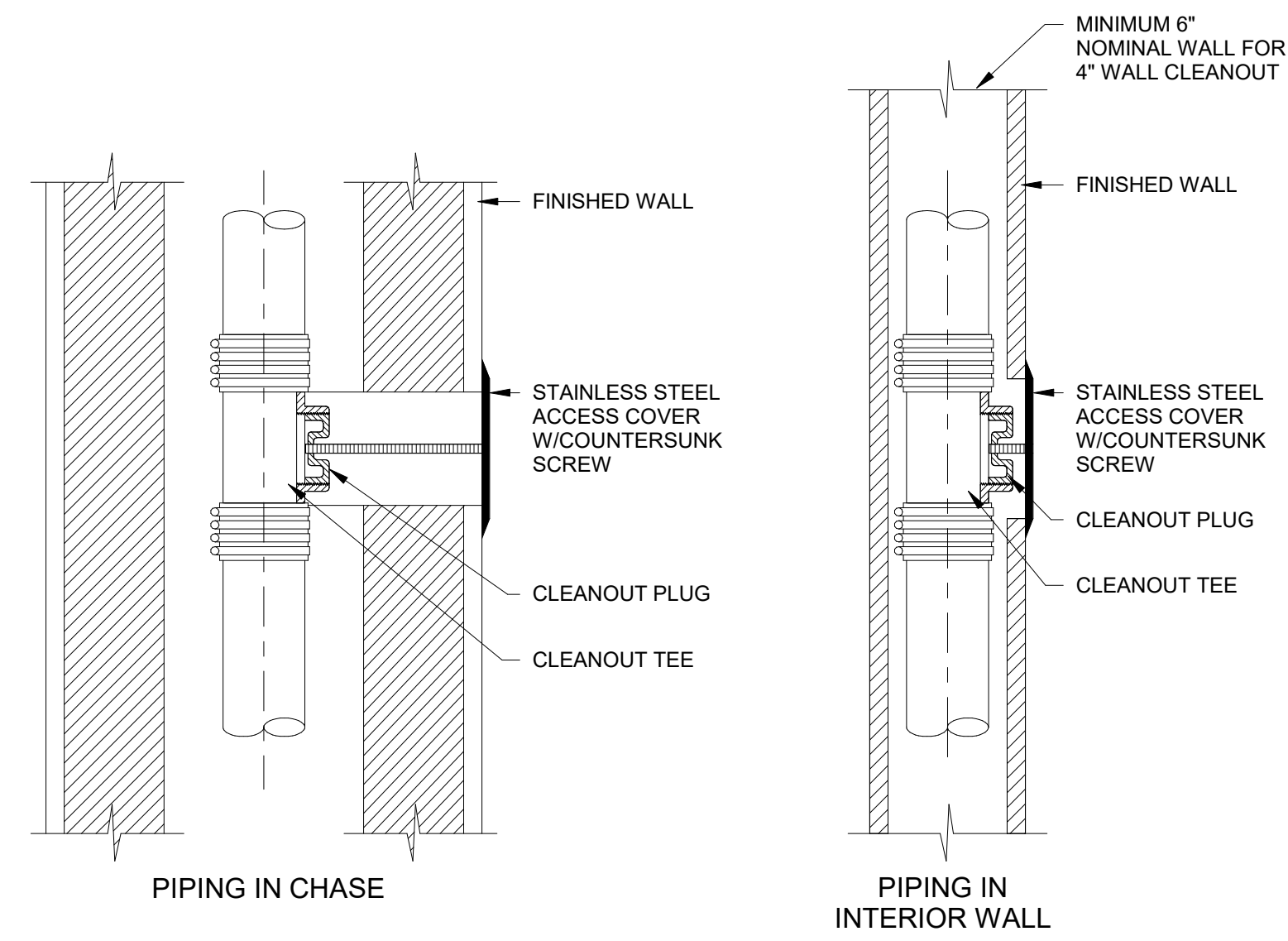
- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED TO THE STRUCTURE OR FINISH OF THE FLOOR OR CEILING.
- B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- C. CONCEALED PIPING SHALL BE INSTALLED WITH THE FOLLOWING: HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN INACCESSIBLE CEILINGS AND CHASES, DOORS FURNISHED PER ARCHITECTURAL REQUIREMENTS AND HANGERS AND BRACKETS AS NOTED ON DRAWING.
- D. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH THE FINISH PRIOR TO THE FINISH WORK.
- E. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING AND/OR SMOKE RATED PENETRATIONS AND ASSEMBLY PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LIST ASSEMBLIES SHALL BE CALKED ACCORDING TO THE APPLICABLE REQUIREMENTS BY MEANS OF A LISTED FIRE PROOF CALKING MATERIAL.
- F. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND CONSTRUCTION NECESSARY TO PREVENT CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- G. ALL PLUMBING CONDITIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE CONSTRUCTION OR MAKE-UP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- H. PLUMBING FLOOR AND ROOF PENETRATIONS ARE SUBJECT TO THE REQUIREMENTS OF THE APPLICABLE DRAWINGS FOR PLUMBING AND EQUIPMENT LOCATIONS.
- I. ALL PLUMBING FIXTURES SHALL HAVE CLEAN CLOSURES.
- J. ALL PIPING FROM TO FLOOR OR CEILING FLOOR DRAINS SHALL BE SUPPLIED WITH A TRAP SEAL GARD.
- K. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- L. REFER TO DRAWING P-702 FOR PLUMBING EQUIPMENT SCHEDULES.
- M. DUE TO THE SMALL SCALE OF THE DRAWINGS IT IS IMPOSSIBLE TO SHOW ALL WALLS AND APPURTENANCES ON THE PLANS. THE PLUMBING CONTRACTOR SHALL PROVIDE A FULL PORT, LINE CONNECTION BALL VALVE TO THE PLUMBING CONTRACTOR TO HOLD WATER LINE TO A PLUMBING FIXTURE WHETHER SHOWN OR NOT.
- N. THE DOMESTIC HOT WATER SYSTEM AS INSTALLED SHALL NOT BE USED FOR WASHING AND LEGS IN EXCESS OF 1.5 X THE DIAMETER OF THE PIPE IN QUESTION.
- O. ALL 4" & LARGER HORIZONTAL SANITARY LINES SHALL SLOPE TO THE HORIZONTAL SANITARY LINES LESS THAN 3" SLOPE 100' SLOPE 1/4" F.T.

1. 3/4" DOMESTIC COLD WATER UP TO RPZ SERVING AHU AND WATER METER IN PENTHOUSE.
2. 24"X24"ACCESS PANEL, TYPICAL, COORDINATE LOCATION WITH ARCHITECT.

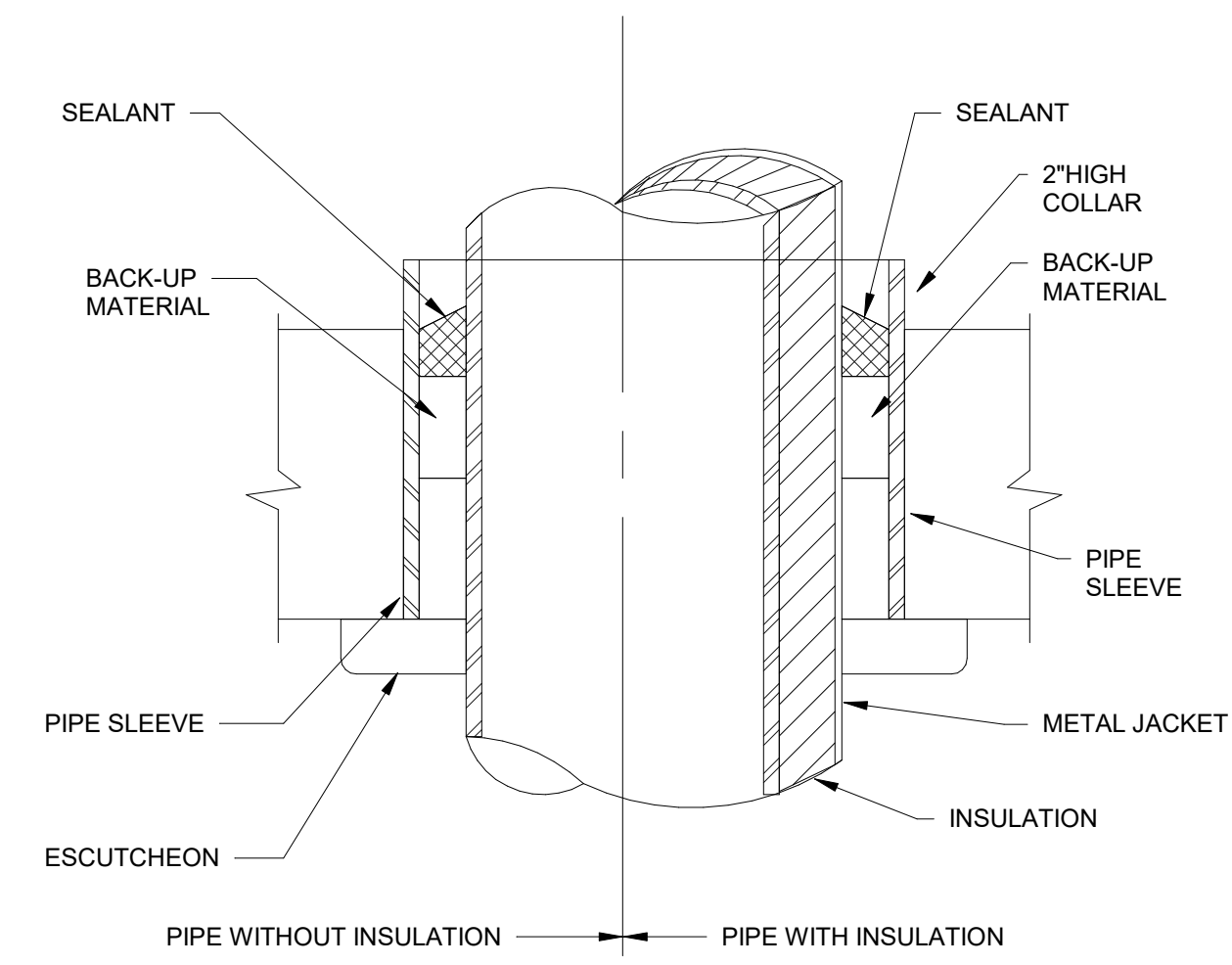
[illegible]

SHEET TITLE
ENLARGED PLUMBING PLANS

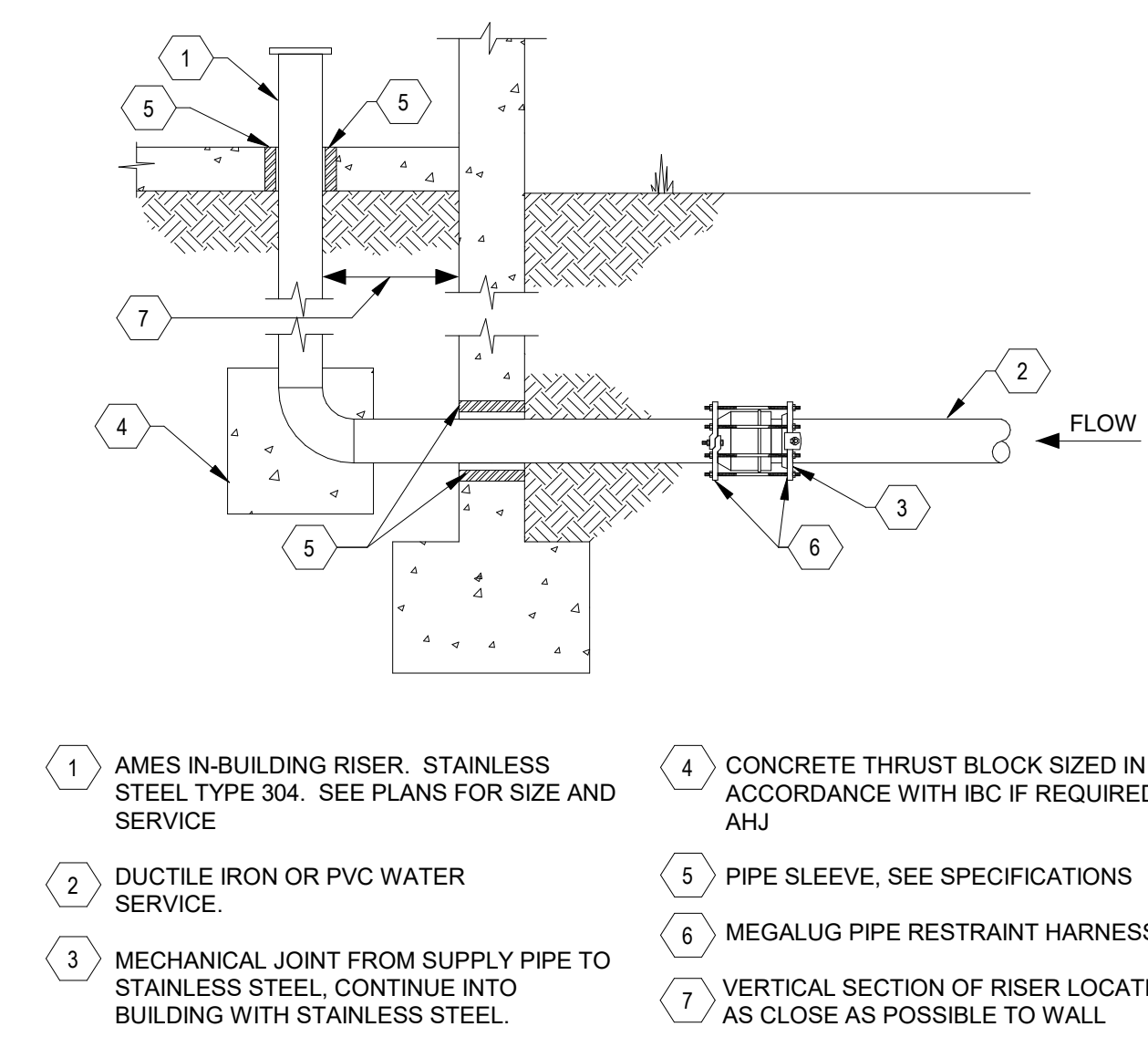
P-402



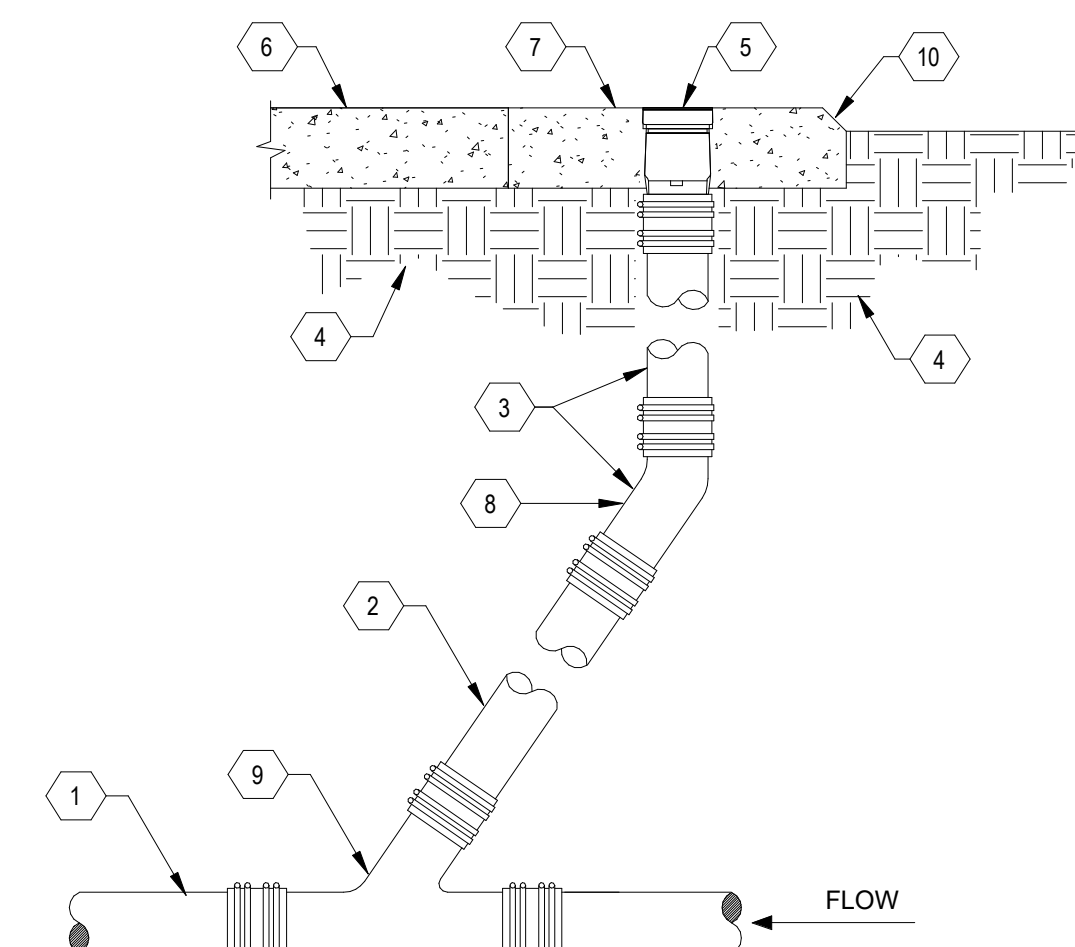
D2 WALL CLEANOUT DETAIL
SCALE: NOT TO SCALE



D3 PIPE SLEEVE THRU FLOOR
SCALE: NOT TO SCALE



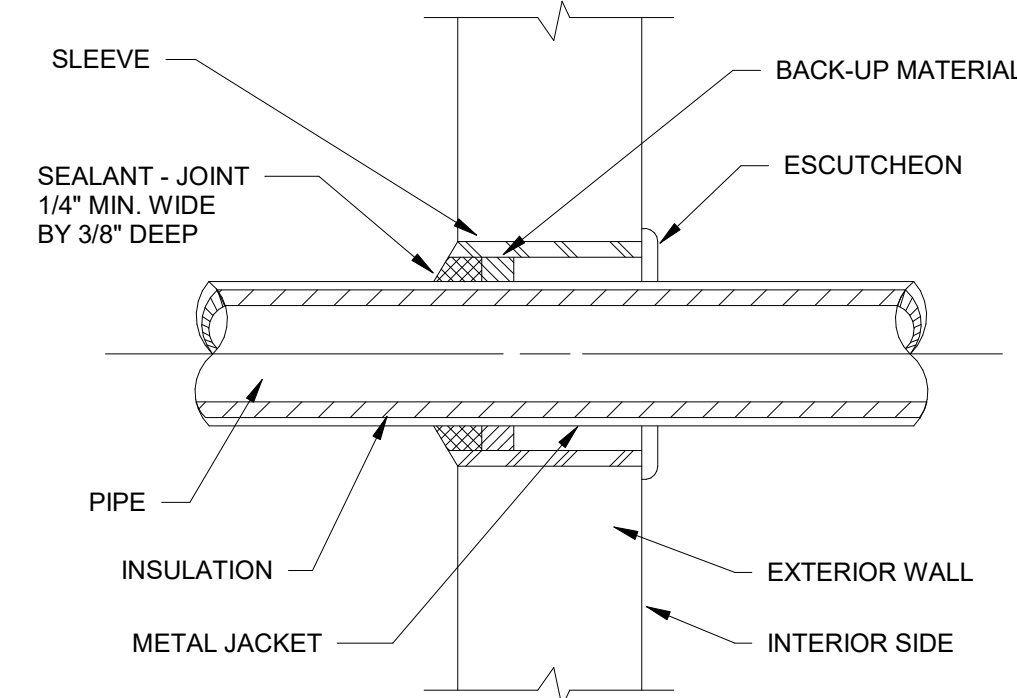
D5 WATER ENTRY THRU FOOTING DETAIL
SCALE: NOT TO SCALE



- | | | | |
|---|--|----|---|
| 1 | SERVICE LINE. SEE SPECIFICATIONS FOR PIPE MATERIALS. | 5 | CLEANOUT WITH HEAVY DUTY SCORiated SECURED TOP. |
| 2 | SAME SIZE AS SERVICE LINE, THRU 4" PIPE, MAXIMUM 4" SIZE REQUIRED. | 6 | FINISH HANDSCAPE. SEE SITE PLAN DRAWINGS FOR ELEVATION. |
| 3 | CAST IRON SOIL PIPE RISER AND FITTINGS. | 7 | 18"X18"X4" THICK CONCRETE COLLAR. |
| 4 | COMPACTED EARTH, SEE SPECIFICATIONS. | 8 | 1/8TH BEND. |
| | | 9 | WYE FITTING. |
| | | 10 | 2" CHAMFER ON ALL COLLARS IN EARTH. |

C2 CLEANOUT TO GRADE DETAIL

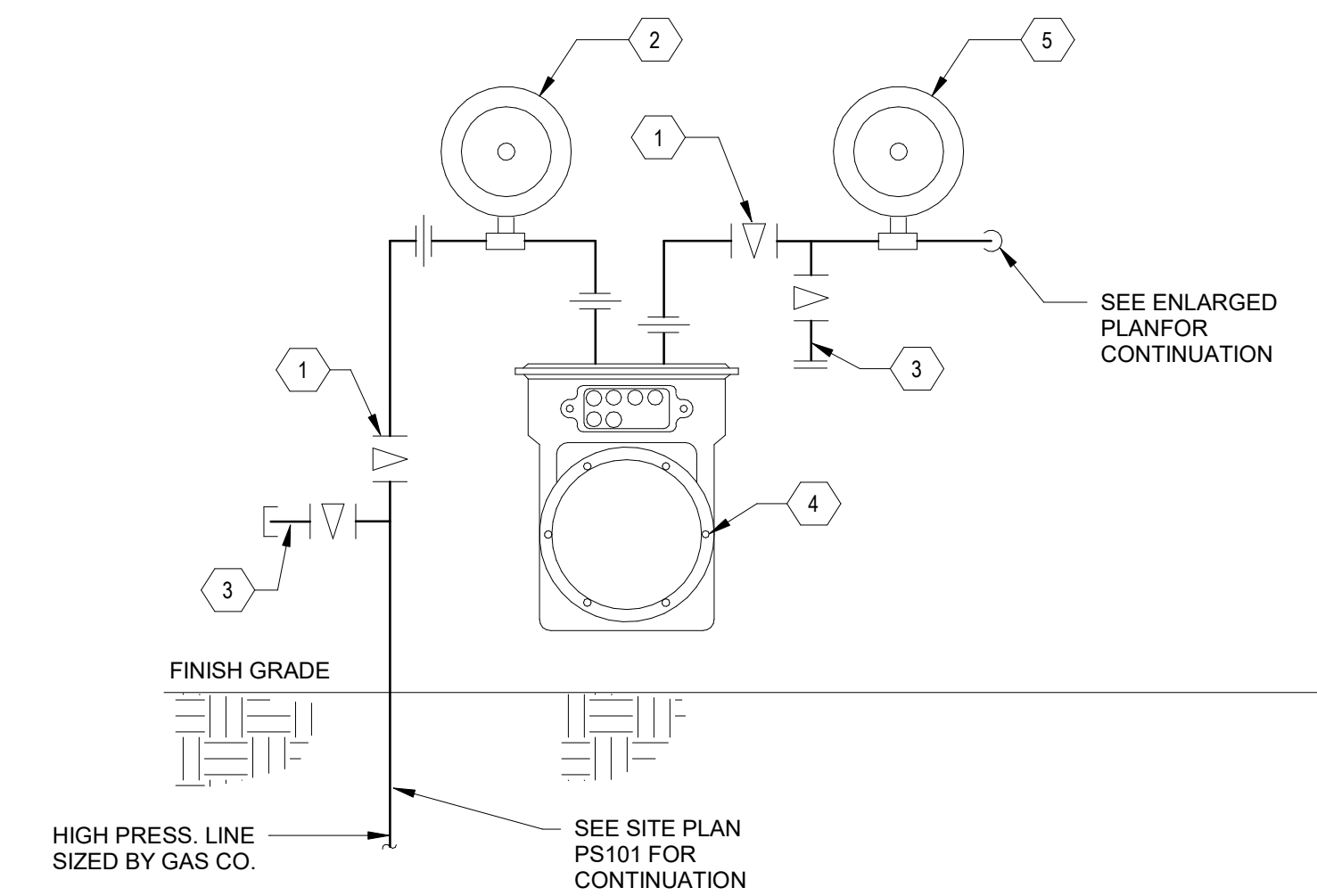
SCALE: NOT TO SCALE



**PIPE SLEEVE FOR INSULATED PIPE
THRU WALL - ABOVE GRADE**

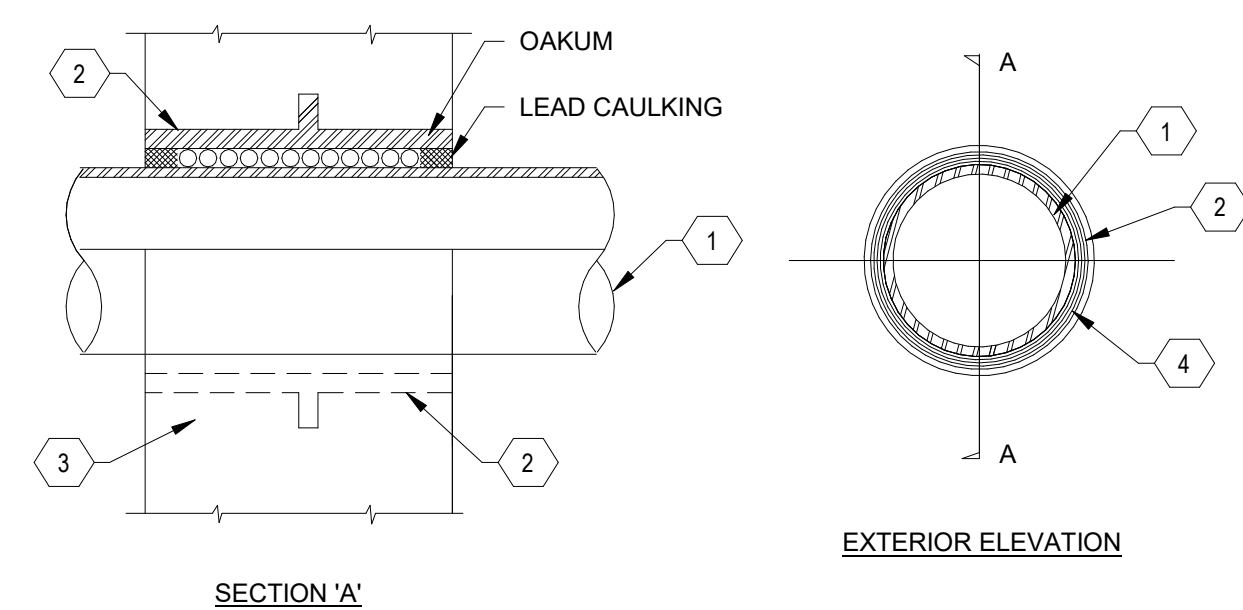
C3

SCALE: NOT TO SCALE



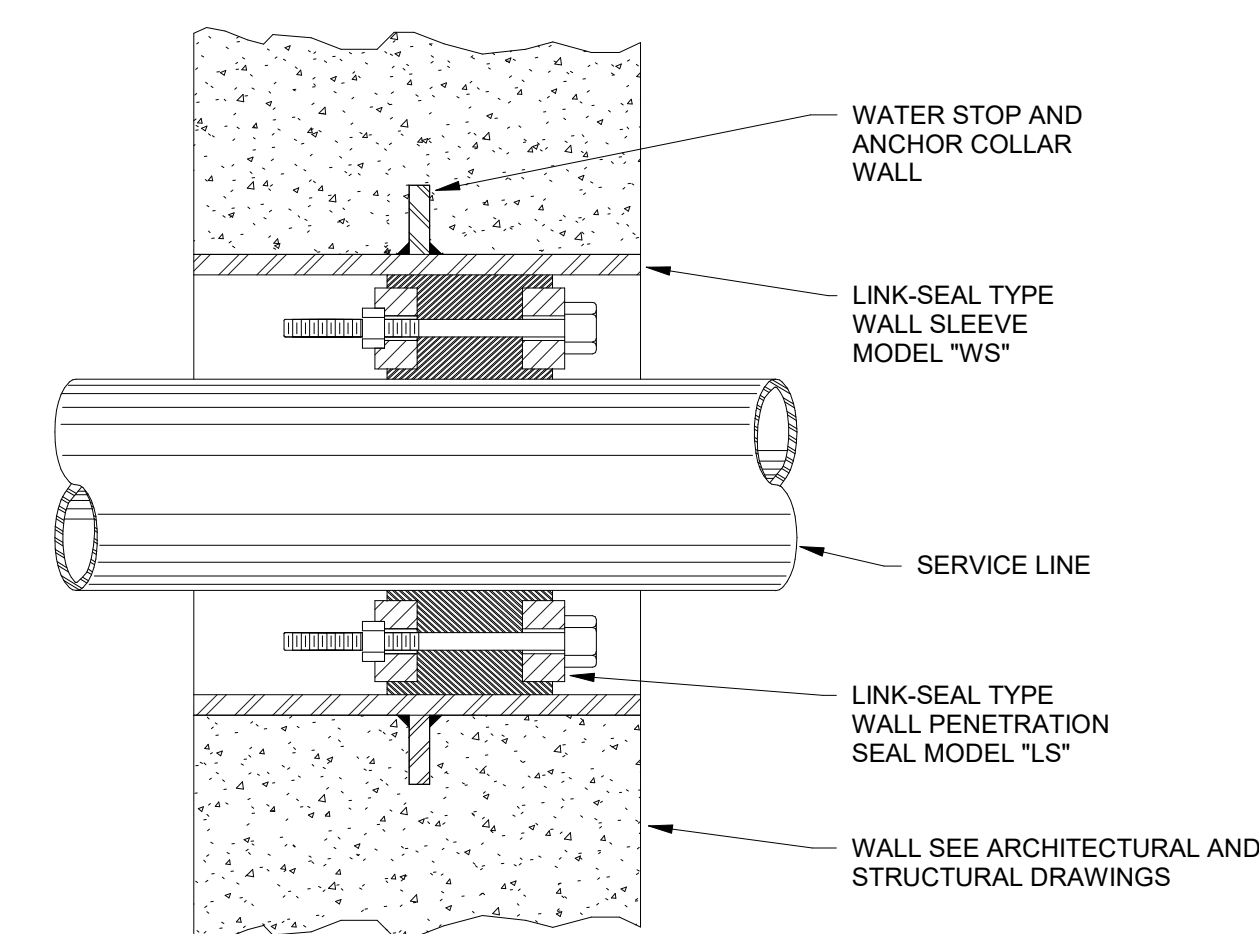
- NOTE:
COORDINATE INSTALLATION WITH LOCAL GAS UTILITY OFFICIALS AND CONFORM TO THEIR REQUIREMENTS. ANY VARIATION FOR METERING REQUIREMENTS SHALL BE AT THE GAS COMPANY'S DIRECTION. SEE NATURAL GAS CALCULATION ON P-702 FOR BUILDING LOAD.
- | | | | |
|---|--|---|--|
| 1 | PLUG VALVE | 3 | TEST TEE |
| 2 | REGULATOR TO REDUCE INCOMING HIGH PRESSURE TO 20 PSI | 4 | METER (SEE SITE PLAN FOR SIZE) |
| | | 5 | REGULATOR TO REDUCE INCOMING HIGH PRESSURE TO 20 PSI |

C4 GAS METER/REGULATOR DETAIL

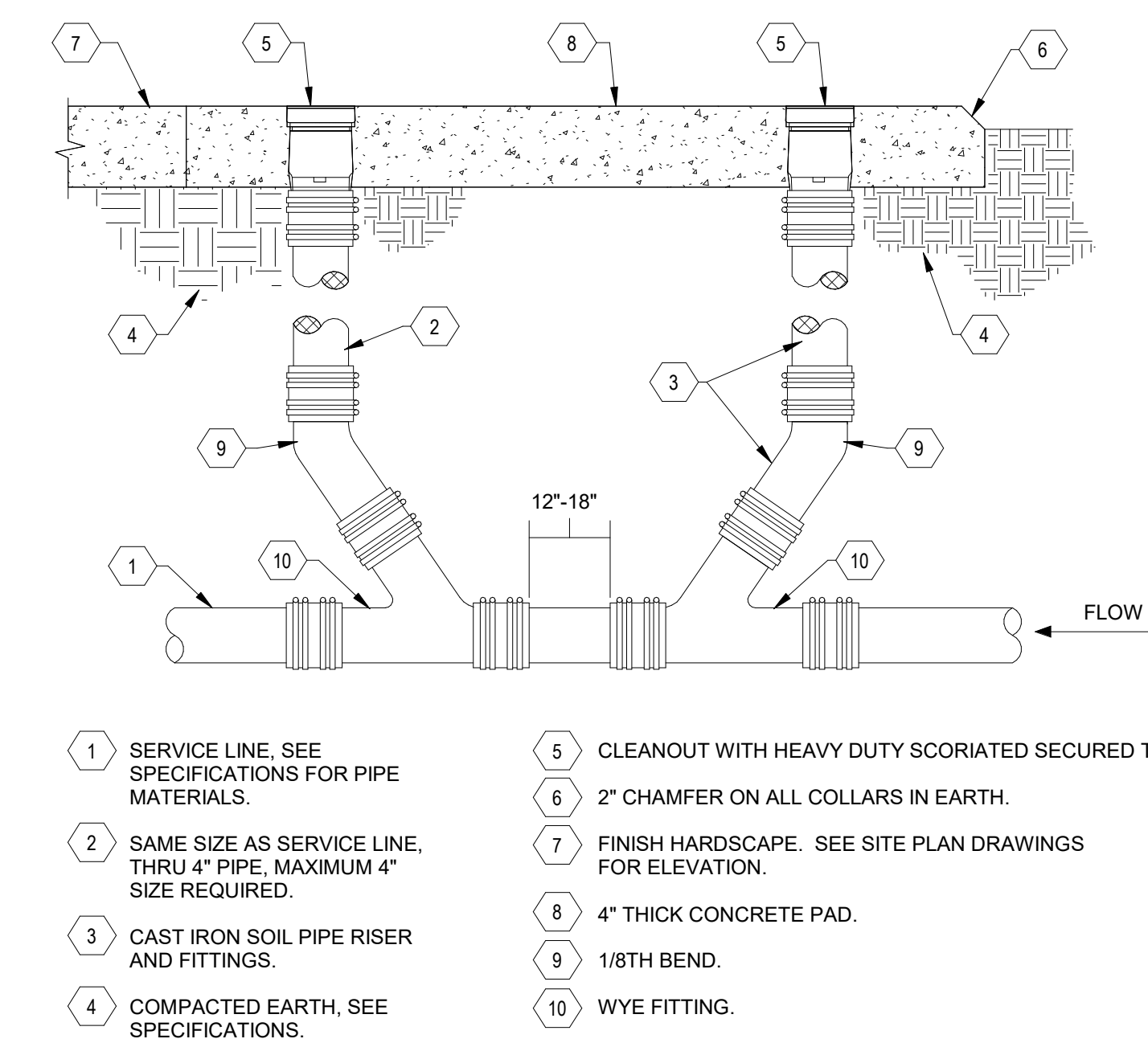


PIPE SIZE	MIN. PIPE SLEEVE (ID)
1/2"	1 1/4"
3/4" - 1"	1 1/2"
1 1/4"	2"
1 1/2"	2 1/2"
2" - 2 1/2"	4"
3" - 4"	6"
6"	10"

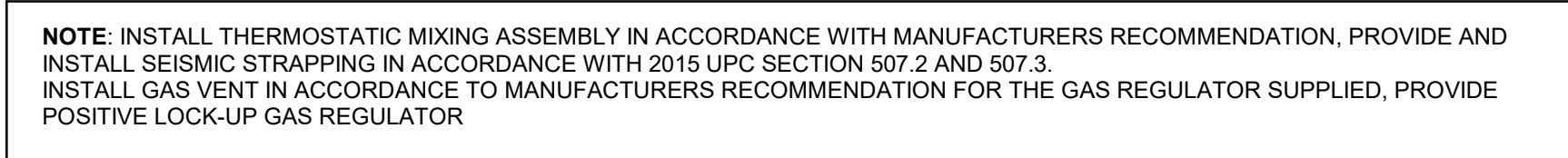
A2 EXTERIOR WALL PENETRATION DETAIL
SCALE: NOT TO SCALE



A3 WATERPROOF WALL PENETRATION DETAIL



A5 DOUBLE CLEANOUT TO GRADE - WYE DETAIL
SCALE: NOT TO SCALE



SCALE: NOT TO SCALE



SCALE: NOT TO SCALE

PLUMBING FIXTURE SCHEDULE							
REFER TO DIVISION 22 4000 FOR ADDITIONAL INFORMATION							
SYMBOL	FIXTURE			TRIM/FAUCET		FLOW RATE	REMARKS:
	TYPE	MANUFACTURER	MODEL	MANUFACTURER	MODEL		
P1	WATER CLOSET - WALL MTD. - FLUSH VALVE MANUAL - WATERSENSE	AMERICAN STANDARD	3351.101	SLOAN	ROYAL 111-1.28	1.28 GPF	EXPPOSED, CHROME PLATED, LOW FLOW. SEAT: HEAVY DUTY, OPEN FRONT LESS COVER, SOLID PLASTIC, WHITE, MFG. CHURCH & DWIGHT OR EQUAL.
P1a	WATER CLOSET (BARRIER FREE) - WALL MTD. - FLUSH VALVE MANUAL - WATERSENSE	AMERICAN STANDARD	3461.001 "MADERA"	SLOAN	ROYAL 111-1.28	1.28 GPF	MANUAL, EXPOSED, CHROME PLATED, LOW FLOW. SEAT: HEAVY DUTY, OPEN FRONT LESS COVER, SOLID PLASTIC, WHITE, MFG. CHURCH & DWIGHT OR EQUAL.
P1e	WATER CLOSET - FLOOR MTD. - FLUSH TANK	AMERICAN STANDARD	2315.228	-	-	1.28 GPF	CHROME LEVER TRIP, LOW FLOW. SEAT: #5001G.055 BABY DEVORO SEAT OPEN FRONT, LESS COVER
P2a	URINAL (BARRIER FREE) - WALL MTD. - FLUSH VALVE MANUAL - WATERSENSE	AMERICAN STANDARD	6590.001 "WASHBROOK"	SLOAN	ROYAL 186-0.5	0.125 GPF	MANUAL, EXPOSED, CHROME PLATED, LOW FLOW, WHITE VITREOUS CHINA, 3/4" TOP SPLD.
P3a	LAVATORY - WALL MOUNT - MANUAL	AMERICAN STANDARD	0355.012	CHICAGO FAUCETS	802-VE39VPABCP	0.35 GPM	DECK MOUNT, CHROME, LEVER HANDLES, VANDAL PROOF, 4" CENTERS. PROVIDE ANGLE STOPS, FLEXIBLE RISERS, ADJUSTABLE P-TRAP. AERATOR: CHICAGO FAUCET E39VPJKABCP. MIXING VALVE: WATTS MODEL LFUSG-B UNDER SINK.
P3a	LAVATORY (BARRIER FREE) - WALL MOUNT - MANUAL	AMERICAN STANDARD	0355.012	CHICAGO FAUCETS	802-VE39VPABCP	0.35 GPM	DECK MOUNT, CHROME, LEVER HANDLES, VANDAL PROOF, 4" CENTERS. PROVIDE ANGLE STOPS, FLEXIBLE RISERS, ADJUSTABLE P-TRAP. AERATOR: CHICAGO FAUCET E39VPJKABCP. MIXING VALVE: WATTS MODEL LFUSG-B UNDER SINK.
P3e	LAVATORY (BARRIER FREE) COUNTER TOP - ROUND - MANUAL	AMERICAN STANDARD	0491.019	CHICAGO FAUCETS	802-VE39VPABCP	0.35 GPM	DECK MOUNT, CHROME, LEVER HANDLES, VANDAL PROOF, 4" CENTERS. PROVIDE ANGLE STOPS, FLEXIBLE RISERS, ADJUSTABLE P-TRAP. AERATOR: CHICAGO FAUCET E39VPJKABCP. MIXING VALVE: WATTS MODEL LFUSG-B UNDER SINK.
P4	SINK	ELKAY	LRAD191865	CHICAGO FAUCETS	885-317GN2AE72ABCP	0.5 GPM	DOUBLE COMPARTMENT, 22" X 19-1/2" X 6" DEEP, 3-HOLE, 18 GA. TYPE 304 STAINLESS STEEL. FAUCET: 8"CENTERS, CONVERTIBLE RIGID/SWING SPOUT, POLISHED CHROME, LAMINAR FLOW CONTROL, ANTIMICROBIAL METAL WRIST BLADE HANDLES. AERATOR: ELKAY E72JKBABCP
P5	SERVICE SINK	FIAT PRODUCTS	TSB3012	CHICAGO FAUCETS	897-CCP	8 GPM	WALL MOUNTED SERVICE FAUCET 42" ABOVE FLOOR, CHROME PLATED WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAUL HOOK AND 3/4" HOSE THREAD ON SPOUT. PROVIDE: INTEGRAL, STAINLESS STEEL, STRAINER DRAN, 3" CAST IRON P-TRAP, HOSE AND BRACKET, 30" LONG FLEXIBLE HEAVY DUTY 5/8" RUBBER HOSE, MFG: FIAT No. 832 AA. MOP BRACKET, 24" LONG X 3" WIDE, STAINLESS STEEL WITH THREE RUBBER GRIPS. MFG: FIAT No. 885 QC
P6	DRINKING FOUNTAIN W/BOTTLE FILLER (BARRIER FREE)	HALSEY TAYLOR	HTHB-HRFSEBP-I	-	-	8 GPH	WALL HUNG, ADA COMPLIANT, HYDRO-BOOST BOTTLE FILLING STATION WITH TWO FACE MOUNTED FOUNTAINS, ONE PIECE, STAINLESS STEEL, BRUSHED SATIN FINISHED, SENSOR ACTIVATED BOTTLE FILLING STATION, AUTOMATIC 20 SECOND SHUT OFF TIMER, INTERFACE GRAPHICS.
P7	SHOWER	BUILT-UP ENCLOSURE PER ARCHITECT'S SPECIFICATIONS. SHOWER TRIM AS SPECIFIED	-	DELTA	8375EP15	1.5 GPM	NON-ADA
P7a	SHOWER (BARRIER FREE)	BUILT-UP ENCLOSURE PER ARCHITECT'S SPECIFICATIONS. SHOWER TRIM AS SPECIFIED	-	DELTA	8342EP15	1.5 GPM	ADA WITH GRAB BARS
P8	WATER HAMMER ARRESTOR	PRECISION PLUMBING PRODUCTS	-	-	-	-	0 TO 200 PSIG MAX. OPERATING PRESSURE, 1-11 FIXTURE UNITS
P10	WALL HYDRANT	ZURN	Z1320-EZ	-	-	-	FREEZE-PROOF, INTEGRAL VACUUM BREAKER, WITH LOOSE-KEY, LOCKABLE DOOR, 3/4" INLET AND 3/4" GARDEN HOSE OUTLET
P11	SUPPLY BOX	GUY GRAY	MIB1AB	-	-	-	VALVE: COMPRESSION ANGLE VALVE 1/2" FIP INLETx1/4" OUTLET
P12	WASHER ROUGH-IN BOX	IPS MODEL	V4700HA	-	-	-	CENTER DRAIN, BRASS 1/4 TURN VALVES WITH WATER HAMMER ARRESTERS, FRAME ACCOMMODATES UP TO 1" DRYWALL, BOTTOM OUTLET

PLUMBING ROUGH-IN SCHEDULE						
REFER TO DIVISION 22 4000 FOR ADDITIONAL INFORMATION						
SYMBOL	FIXTURE	ROUGH-IN SIZE			VENT	TRAP
		CW	HW	SAN / WASTE		
P1	WATER CLOSET - WALL MTD. - FLUSH VALVE MANUAL - WATERSERSE	1"	-	4"	2"	INTEGRAL
P1a	WATER CLOSET (BARRIER FREE) - WALL MTD. - FLUSH VALVE MANUAL - WATERSERSE	1"	-	4"	2"	INTEGRAL
P1e	WATER CLOSET - FLOOR MTD. - FLUSH TANK	1 1/2"	-	4"	2"	INTEGRAL
P2	URINAL (BARRIER FREE) - WALL MTD. - FLUSH VALVE MANUAL - WATERSERSE	3/4"	-	2"	2"	INTEGRAL
P3	LAVATORY - WALL MOUNT - MANUAL	1/2"	1/2"	2"	2"	1-1/4" X 1-1/2"
P3a	LAVATORY (BARRIER FREE) - WALL MOUNT - MANUAL	1/2"	1/2"	2"	2"	1-1/4" X 1-1/2"
P3e	LAVATORY (BARRIER FREE) COUNTER TOP - ROUND - MANUAL	1/2"	1/2"	2"	1-1/2"	1-1/4" X 1-1/2"
P4	SINK	1/2"	1/2"	2"	2"	1-1/4" X 1-1/2"
P5	SERVICE SINK	1/2"	1/2"	3"	2"	3"
P6	DRINKING FOUNTAIN W/BOTTLE FILLER (BARRIER FREE)	1/2"	-	2"	2"	1-1/4" X 1-1/2"
P7	SHOWER	1/2"	1/2"	2"	2"	2"
P7a	SHOWER (BARRIER FREE)	1/2"	1/2"	2"	2"	2"
P8	WATER HAMMER ARRESTOR	1/2"	-	-	-	-
P10	WALL HYDRANT	3/4"	-	-	-	-
P11	SUPPLY BOX	1/2"	-	-	-	-
P12	WASHER ROUGH-IN BOX	1/2"	1/2"	2"	2"	2"

ELONGATED BOWL, VITREOUS CHINA, 1-1/2" TOP SPUD. NOTE: REFER TO ARCHITECTURAL FOR MOUNTING HEIGHTS.

ELONGATED BOWL, VITREOUS CHINA, 1-1/2" TOP SPUD. NOTE: REFER TO ARCHITECTURAL FOR MOUNTING HEIGHTS.

ROUND FRONT BOWL, VITREOUS CHINA, FLUSH TANK. FLOOR TO RIM HEIGHT: 10-1/4"

NOTE: REFER TO ARCHITECTURAL FOR MOUNTING HEIGHTS.

SUPPLIES: 1/2" SWEAT WHEEL HANDLE ANGLE STOPS WITH 3/8" O.D. FLEXIBLE RISERS, CHROME PLATED FINISH. TRAP: 1-1/4" IN X 1-1/2" OUT, 17 GA. CHROME PLATED, ADJUSTABLE, CLEANOUT PLUS, SEMI-CAST P-TRAP, MFG. MEASURE NO. 8902. MTD HEIGHT: SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. NOTE: INSULATE SUPPLY AND WASTE PIPING PER SPECIFICATIONS & FIXTURE CARRIER REQUIREMENTS. COORDINATE COLOR REQUIREMENTS WITH ARCHITECT.

THREE HOLE, WHITE VITREOUS CHINA, 21-1/4" X 18-1/8", 4" CENTERS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.

COUNTER TOP, THREE HOLE, VITREOUS CHINA, ROUND, 19-1/8" X 7-3/8" DEEP

SUPPLIES: 1/2" X 3/8" WHEEL HANDLE ANGLE STOPS WITH 3/8" O.D. FLEX RISERS DRAIN BASKET STRAINER, ELKAY NO. LK-35. TRAP: 1-1/2" 17 GA. POLISHED CHROME TUBULAR P-TRAP INSULATE P-TRAP AND SUPPLIES WITH RIGID INSULATION, PROVIDE CONTINUOUS WASTE FITTING. MIXING VALVE: WATTS MODEL LFUSG-B UNDER SINK.

FLOOR MOUNTED, TERRAZZO, 36"x36"x12" DEEP, 3" DRAIN. PROVIDE: 3" CAST IRON P-TRAP

PROVIDE OPTIONAL ACCESS PANEL.

SUPPLIES: 1/2" X 3/8" WHEEL HANDLE ANGLE STOPS WITH 3/8" O.D. FLEX RISERS. TRAP: 1-1/4" 17 GA. POLISHED CHROME TUBULAR P-TRAP. CARRIER: CONCEALED BY ZURN, WADE, JOSAM, OR SMITH. MTD HEIGHT: SEE ARCHITECTURAL DRAWINGS.

PROVIDE: PAN LINER SHALL BE FURNISHED BY PLUMBING CONTRACTOR, 2" SHOWER DRAIN (SEE DRAIN SCHEDULE), 2" CAST IRON P-TRAP.

PROVIDE: PAN LINER SHALL BE FURNISHED BY PLUMBING CONTRACTOR, 2" SHOWER DRAIN (SEE DRAIN SCHEDULE), 2" CAST IRON P-TRAP.

IN-LINE, PISTON TYPE, TYPE "L" COPPER BARREL WITH CAP ATTACHED WITH 95-S SOLDER, LOW LEAD BRASS, EPDM "O" RINGS.

- FREEZE-PROOF, VERIFY WALL THICKNESS BEFORE ORDERING.



SPACE SAVER DESIGNED FOR ICEMAKER HOOK-UP.

ROUGH OPENING: 10"Wx34"Hx3-1/2"D.

BOX DIMENSIONS:

8 1/4" X 6 1/8" X 3 3/4", FRAME DIMENSIONS 10 3/16" X 8 13/16".

FLOOR/ROOF DRAIN SCHEDULE				
REFER TO DIVISION 22 4000 FOR ADDITIONAL INFORMATION				
SYMBOL	MANUFACTURER	MODEL	VENT	REMARKS:
FD1	ZURN	Z-415-B-VP-Z1000.	2"	7" DIAMETER, ROUND TYPE "B" STRAINER, POLISHED BRONZE, CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTABLE MEMBRANE CLAMP, DEEP SEAL P-TRAP, VANDAL-PROOF SECURED TOP, DIAMETER OF OUTLET AS SHOWN ON DRAWINGS.
FS1	ZURN	Z-1900	2"	PROVIDE WITH SURE SEAL IN-LINE TRAP SEAL, SIZE AND TYPE TO FIT DRAIN. CAST IRON BODY WITH WHITE ACID RESISTING ENAMEL BODY INTERIOR, SLOTTED 3/4 LOOSE SET GRATE, ALUMINUM ANTI-SPASH DOME STRAINER, (DEEP SEAL P-TRAP MFG. ZURN Z1000). DIAMETER OF OUTLET AS SHOWN ON DRAWINGS.
TD-3	ACO DRAIN USA	143150	2"	PROVIDE WITH SURE SEAL IN-LINE TRAP SEAL, SIZE AND TYPE TO FIT DRAIN. LINEAR SHOWER CHANNEL AND GRATE SYSTEM, STAINLESS STEEL GRADE 304, GRATE SHALL BE SQUARE DESIGN. SHOWER CHANNELS SHALL BE 2.75" WIDE AND 27'0" LENGTH. OUTLET SPIGOT, DIAMETER 2.0". WATERPROOFING AND PLUMBING CONNECTION THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
RD1	ZURN	Z100	-	NO-HUB OUTLETS, SIZE AS INDICATED ON PLANS
ORD1	ZURN	Z100	-	NO-HUB OUTLETS, SIZE AS INDICATED ON PLANS
DSN1	JAY R. SMITH	1771	-	WALL MOUNT, CAST BRONZE AND FLANGE, MACHINED NOZZLE, NICKEL BRONZE, SET SCREW, SIZE AS INDICATED ON PLANS.

f b t MAIL: 6501 Americas Pkwy NE, Ste. 300 Albuquerque, NM 87110	 architects PHO: 505.883.5200 FAX: 505.884.5390 WEB: www.fbtarch.com	
CONSULTANT		
 <p>4600 C Montgomery Blvd. NE Albuquerque, NM 87109 505.883.4111 www.bpcce.com</p>		
 ARCHITECT		
<h2 style="margin: 0;">Dzilth-Na-O-Dith-Hle - New Dormitory Building</h2> <h3 style="margin: 10px 0 0 0;">PRICING SET</h3> <p style="margin-top: 20px;">35 Road 7585, Bloomfield, NM 87413</p> <p>NOVEMBER 10, 2020</p>		
MARK	DATE	DESCRIPTION
ISSUE:		
DATE:		
PROJECT NO: 751		
CAD DWG FILE:		
DRAWN BY: AJM/SNB		
CHECKED BY: IM		
SHEET TITLE		
PLUMBING SCHEDULES		
P-701		

WATER HEATER SCHEDULE																			
SYMBOL	MANUFACTURER	MODEL NO.	LOCATION	SERVICE	TYPE	SET POINT (DEGREES)	FUEL	EFFICIENCY	STORAGE VOLUME (GAL.)	INPUT (BTUH)	ELEVATION	OPERATION WEIGHT	ELECTRICAL				HOT WATER RECOVERY		REMARKS:
													V	PH	HZ	FLA	RATE (GPH)	Δ T °F	
DWH-3	LOCHINVAR	AWN200PM	MECH 228	DORM DHW	CONDENSING/ DIRECT VENT	140°F	NATURAL GAS	96%	1.8	199,900	5.463	196 LBS	120	1	60	4.7	232	100	STAINLESS STEEL HEAT EXCHANGER, 5:1 TURN DOWN RATIO, PROVIDE CONDENSATE NEUTRALIZATION KIT, DISCHARGE FULL SIZE RELIEF VALVE TO FLOOR SINK, DIRECT VENT.
DWH-4	LOCHINVAR	AWN200PM	MECH 228	DORM DHW	CONDENSING/ DIRECT VENT	140°F	NATURAL GAS	96%	1.8	199,900	5.463	196 LBS	120	1	60	4.7	232	100	STAINLESS STEEL HEAT EXCHANGER, 5:1 TURN DOWN RATIO, PROVIDE CONDENSATE NEUTRALIZATION KIT, DISCHARGE FULL SIZE RELIEF VALVE TO FLOOR SINK, DIRECT VENT.

HOT WATER GPH COUNT ASHRAE			
2018 HVAC Applications - 50.20 - Table 10			
DEMAND = APARTMENT			
FIXTURE	# OF FIXTURES	GPH	TOTAL (# OF FIXTURES X GPH)
CLOTHES WASHER	5	40	200
LAVATORY	15	4	60
SERVICE SINK	3	20	60
SHOWER (# X GPM X MINS)	15	0	0
SINK	3	10	30
TOTAL GPH:			350

NATURAL GAS - WATER HEATER SIZING - ASHRAE 2015 HVAC Applications - Chapter 50.20 - APARTMENT																			
Apt. Probable Max Demand (PMD) x Apt. Recovery Rate (GPH)		NOTE: showers calculated separate (Amount x GPM Per Shower Head x Minutes) = Shower Demand GPH					Apt. Recovery Rate + SHW (GPH)	EMERGENCY SHOWER DEMAND (GALS) 20 gpm x 15 mins = 300 gph x 50% ratio	<u>Apt. Recovery Rate + Shower GPH = TOTAL RECOVERY RATE (GPH)</u>	Storage Factor X TOTAL RECOVERY RATE	TOTAL RECOVERY RATE (GPH) x Δ T x (H2O/Eff) = btuh Recovery Rate (no elevation)			EQUIPMENT DERATED OVER 4000 FT.			Recovery Rate (BTUH) + ELEVATION (BTUH) = TOTAL BTUH REQUIRED		
Apt. DEMAND	TOTAL GPH	AMOUNT OF SHOWERS	GPM PER SHOWER HEAD	MINUTES	SHOWER DEMAND (GPH)			Apartment Sizing FACTOR	STORAGE (GALS.)	Δ T Rise (°F)	H2O Weight (lb.)	Water Heater Efficiency (%)	Recovery Rate (BTUH)	ELEV (FT.)	DERATION (btuh) x 0.04%	ELEVATION (BTUH)			
0.30	350	105	15	1.5	10	225	330	0	330	1.25	413	100	8.33	0.95	289,358	5,312		0.212	61,483

PLUMBING PUMP SCHEDULE														
SYMBOL	MANUFACTURER	MODEL NO.	LOCATION	SERVICE	TYPE	CAPACITY		PUMP (RPM)	MOTOR (HP)	ELECTRICAL				REMARKS:
						GPM	TOTAL FT. HD.			V	PH	HZ	FLA	
RCP-6	BELL & GOSSETT	ecocirc XL N 20-35	MECH 137	DHW	IN-LINE	5	10	2650	1/12	120	1	60	1.4	RECRULATION PUMP BETWEEN WATER HEATER AND STORAGE TANK, REFER TO MANUFACTUER FOR ADDITIONAL PUMP INFORMATION.
RCP-6	LOCHINVAR	WA125	MECH 137	DHW	IN-LINE	5	8	-	1/6	120	1	60	2	
RCP-7	LOCHINVAR	WA125	MECH 137	DHW	IN-LINE	5	8	-	1/6	120	1	60	2	

THERMOSTATIC MIXING VALVE SCHEDULE														
SYMBOL	MANUFACTURER	MODEL NO.	LOCATION	SERVICE	OUTLET TEMPERATURE	INLET PIPE SIZE	OUTLET PIPE SIZE	RETURN PIPE SIZE	SYSTEM FLOW & PRESSURE DROP	ELECTRICAL				REMARKS:
										V	PH	HZ	FLA	
TMV-3 DORM	LEONARD	PNV-125-LF-JF-RTS	MECH 228	DORM DHW	110	1-1/2"	1-1/2"	3/4"	31 GPM @ 4 PSI	120	1	60	2	LEAD FREE, DIGITAL MIXING VALVE, 6 FOOT POWER CORD UL LISTED

EXPANSION TANK SCHEDULE									
SYMBOL	MANUFACTURER	MODEL NO.	SERVICE	DESIGN DEG °F	TANK VOLUME (GAL.)	TANK ACCEPTANCE (GAL.)	PSIG	WEIGHT (LBS.)	REMARKS:
EXP-2	LOCHINVAR	LTPA5	DORM DHW	140	3.5	2.3	150	22	IN-LINE, COORDINATE LOCATION WITH MANUFACTURER RECOMMENDATIONS AND WITH WATER HEATERS AND STORAGE TANK, 3/4" CONNECTION

WATER HEATER STORAGE TANK SCHEDULE							
SYMBOL	MANUFACTURER	MODEL NO.	SERVICE	PSI	TANK VOLUME (GAL.)	TANK DIMENSIONS	REMARKS:
ST-2	LOCHINVAR	RG40318	DORM DHW	150	318	40" DIAMETER X 80" HIGH	JACKED ASME, VERTICAL, 5 YEAR WARRANTY, 3" NPT, 2" OUTLET, 1-1/4" T&P CONNECTION.

LINT INTERCEPTOR SCHEDULE								
SYMBOL	MANUFACTURER	MODEL NO.	LOCATION	SERVICE	TYPE	PDI RATING (GPM)	DIMENSIONS	REMARKS:
LI-1	JAY. R. SMITH	8910-100	LINEN CLOSET 105A	WASHING MACHINES	IN-LINE	100		

[illegible]

PLUMBING MISC. EQUIPMENT SCHEDULE							
SYMBOL	MANUFACTURER	MODEL NO.	LOCATION	SERVICE	PIPE SIZE	PSI	REMARKS:
GM-2	-	-	SITE	NAT GAS BLDG	-	HIGH	GAS METER PROVIDED BY UTILITY COMPANY. PROVIDE REGULATORS AND REGULATE INCOMING HIGH PRESSURE GAS DOWN TO 2 PSI. REFER TO NATURAL GAS SIZING CRITERIA ON DORM DRAWING P-702 FOR NEW CLASSROOM BUILDING CFH LOAD.
REG-7	-	-	SITE	NAT GAS BLDG	-	HIGH	GAS REGULATOR PROVIDED BY UTILITY COMPANY. PROVIDE REGULATORS AND REGULATE INCOMING HIGH PRESSURE GAS DOWN TO 2 PSI. REFER TO NATURAL GAS SIZING CRITERIA ON DORM DRAWING P-702 FOR NEW CLASSROOM BUILDING CFH LOAD.
REG-8	AMERICAN METER		SITE	NAT GAS BLDG	1"	2 PSI	2,047 CFH
REG-9	AMERICAN METER		MECH 228	DWHS NAT GAS	2"	14"wc	512 CFH
REG-10	AMERICAN METER		MECH 228	BOILERS NAT GAS	2"	14"wc	1,536 CFH

<div> <div>ROOF DRAIN CALCULATION</div> </div>										
Instance Name	SYMBOL	Rain Fall Rate Per Hr (INCHES)	SLOPE	Roof Sq. Ft.	PARAPET/VERTICAL WALL	Parapet Or Vertical Wall Sq. Ft. divided by 2	UPPER ROOF Sq. Ft.	TOTAL ROOF Sq. Ft.	GPM	LEADER OUTLET SIZE (INCHES)
ROOF DRAIN A	RD1	2	1/8" x 1/2"	2656	335	167.5	0	2823.5	59	4
ROOF DRAIN C	RD1	2	1/8" x 1/2"	1394	455	227.5	846	2467.5	51	4
ROOF DRAIN D	RD1	2	1/8" x 1/2"	1022	93	46.5	83	1151.5	24	3
ROOF DRAIN E	RD1	2	1/8" x 1/2"	1069	93	39.5	186	1294.5	27	3
ROOF DRAIN E	ORD1	2	1/8" x 1/2"	1069	79	39.5	186	1294.5	27	3
ROOF DRAIN F	RD1	2	1/8" x 1/2"	1055	70	35	91	1181	25	3
ROOF DRAIN G	RD1	2	1/8" x 1/2"	1002	56	28	175	1205	25	3
ROOF DRAIN H	RD1	2	1/8" x 1/2"	3570	55	27.5	139	3536.5	80	3

NATURAL GAS SIZING CRITERIA						
TOTAL LENGTH = 43 FEET X 1.3 (FOR MISC. FITTINGS) = "TDL" TOTAL DEVELOPED LENGTH (TDL) = 50 FEET				PIPING SIZED PER CHAPTER 4 OF THE 2015 INTERNATIONAL FUEL GAS CODE		
GAS PRESSURE LEAVING REGULATOR = 2 psi (Note Equipment Regulators leaving at 14" wc)						
NATURAL GAS DEMAND LOAD						
SYMBOL	QUANTITY	INPUT BTU/H	ELEVATION	MBH	MBH PER CFH	CFH
DWH-3	1	199,900	5,463	200	0.781	256
DWH-4	1	199,900	5,463	200	0.781	256
B-1	1	600,000	5,463	600	0.781	768
B-2	1	600,000	5,463	600	0.781	768
Total Design LOAD:		1,599,800		1,600		2,047

SANITARY PIPE SIZE (2015 UPC)		DHW PIPE SIZE (UPC @ 4 FPS)		
TOTAL DFU	PIPE SIZE @ 1/8" SLOPE (IN/CH)	TOTAL DHWFWU	GPM	PIPE SIZE (INCH)
196	6	55.53	32	1.5

ENTIRE DORMITORY FIXTURE UNITS (2015 UPC)									
Note: SEE SEPARATE SANITARY EXITS. DOMESTIC COLD WATER ENTRY AND HOT WATER DEMAND SCHEDULE IF BUILDING REQUIRES SEPARATE DEMANDS									
FIXTURE	QUANTITY	SANITARY		DOMESTIC COLD WATER		TOTAL WATER SUPPLY		DOMESTIC HOT WATER	
		DFU	TOTAL DFU	DCWFU	TOTAL DCWFU	WSFU	TOTAL WSFU	DHWFU	TOTAL DHWFU
WATER CLOSET	11	4	44	5	55	5	55	0	0
WATER CLOSET - TANK TYPE	4	4	16	2.5	10	2.5	10	0	0
URINAL	2	2	4	4	8	4	8	0	0
LAVATORY	15	1	15	0.75	11.25	1	15	0.75	11.25
SINK	3	2	6	1.13	3.39	1.5	4.5	1.13	3.39
SERVICE SINK	3	3	9	2.25	6.75	3	9	1.13	3.39
DRINKING FOUNTAIN	2	1	2	0.5	1	0.5	1	0	0
SHOWER	15	0	0	1.5	22.5	2	30	1.5	22.5
WALL HYDRANT	7	0	0	0.5	3.5	0.75	5.25	0	0
SUPPLY BOX	1	0	0	0.5	0.5	0.5	0.5	0	0
WASHER-ROUGH-IN BOX	5	3	15	3	15	4	20	0	0
FLOOR DRAIN (3" TRAP)	4	6	24	0	0	0	0	0	0
FLOOR SINK (4" TRAP)	4	8	32	0	0	0	0	0	0
TRENCH DRAIN (2" TRAP)	15	2	30	0	0	0	0	0	0
Fixture Unit Totals			196		136.89		156.25		65.53

ENTIRE DCW FLUSH VALVE DEMAND (UPC @ 5 FPS)					
DCWFU	DCWFU TO (GPM)	DCW PIPE SIZE (INCH)	WSFU TOTAL	WSFU TO (GPM)	ENTRY PIPE SIZE (INCH)
126.89	77	2.5	148.25	81	2.5

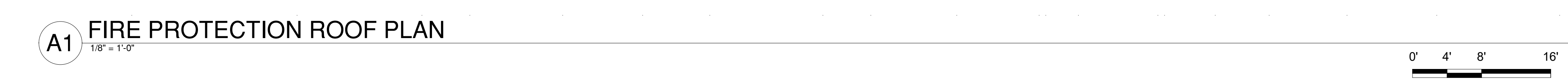
SYMBOL	ABBREVIATION	DESCRIPTION
	FP	ROOF MANIFOLD
	FDC	FIRE DEPARTMENT INLET CONNECTION
	(E)/FDC	EXISTING FIRE DEPARTMENT INLET CONNECTION
	FP	WET PIPE FIRE RISER
	DFF	DRY PIPE FIRE RISER
	FP	DELUGE/PREACTION FIRE RISER
	FP	INSPECTOR'S TEST CONNECTION (HORIZONTAL)
	FP	INSPECTOR'S TEST CONNECTION (VERTICAL)
		STANDPIPE VALVE
		FLOW CONTROL VALVE
		FLOW SWITCH
		GATE VALVE
		GLOBE VALVE
		OS&Y VALVE
		BUTTERFLY VALVE
		BALL VALVE
		CHECK VALVE
		WATER PRESSURE REDUCING VALVE
		AUTO BALL DRIFT VALVE
		PRESSURE RELIEF VALVE
		TEMPERATURE AND PRESSURE RELIEF VALVE
		DRAIN VALVE
		VALVE IN VERTICAL
		FLOW SWITCH
		DIAPHRAGM (PROCESS SYSTEMS)
		REDUCED PRESSURE BACKFLOW PREVENTER (RPBP)
		ATMOSPHERIC VACUUM BREAKER
		PRESSURE STYLE VACUUM BREAKER

DESCRIPTION	NEW	EXISTING
FIRE PROTECTION		
POST INDICATOR VALVE		
REDUCED PRESSURE BACKFLOW PREVENTER		
FIRE HYDRANT		
FIRE DEPARTMENT INLET CONNECTION		
VALVE WITH VALVE BOX		
CONSTRUCTION		
FENCING		


TEST DATE:	04/28/2020
TEST LOCATION:	Residential at Main Entrance
WATER PRESSURE ZONE:	XX - XXXX
TEST ELEVATION:	5463' MSL
REQUESTED FLOWING:	500 GPM
(IF MODELED BY THE MUNICIPALITY)	
PEAK STATIC PRESSURE:	56 PSI
RESIDUAL PRESSURE:	51 PSI
FLOWING GPM:	2860 GPM @ 20 psi
(IF NOT MODELED BY THE MUNICIPALITY)	



FX-101



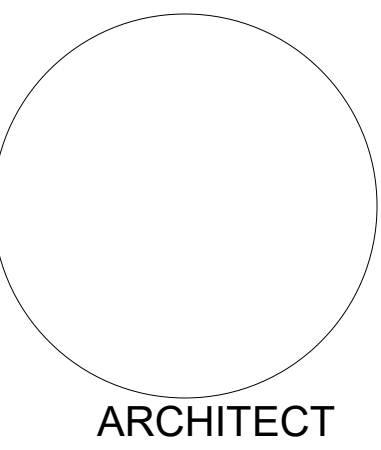
1. PROVIDE ORDINARY HAZARD GROUP I COVERAGE AT DESIGN DENSITY 0.15 GPM / 1500 SQ. FT.



ARCHITECT

FX-131

CONSULTANT



Dzilth-Na-O-Dith-Hle -
New Dormitory
Building

PRICING SET

35 Road 7585, Bloomfield, NM
87413

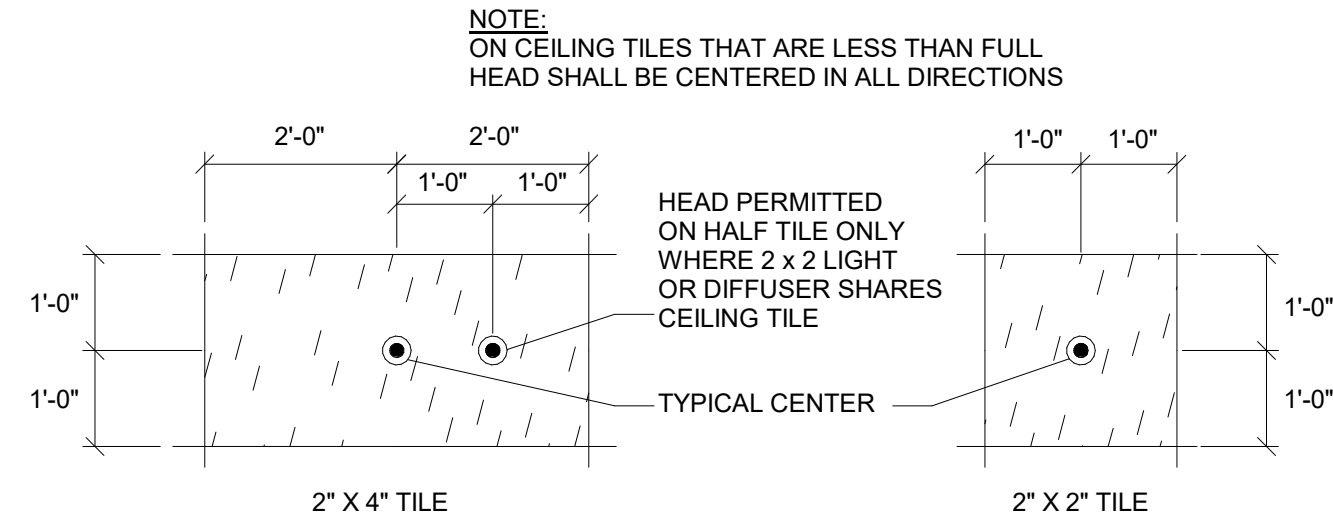
NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
------	------	-------------

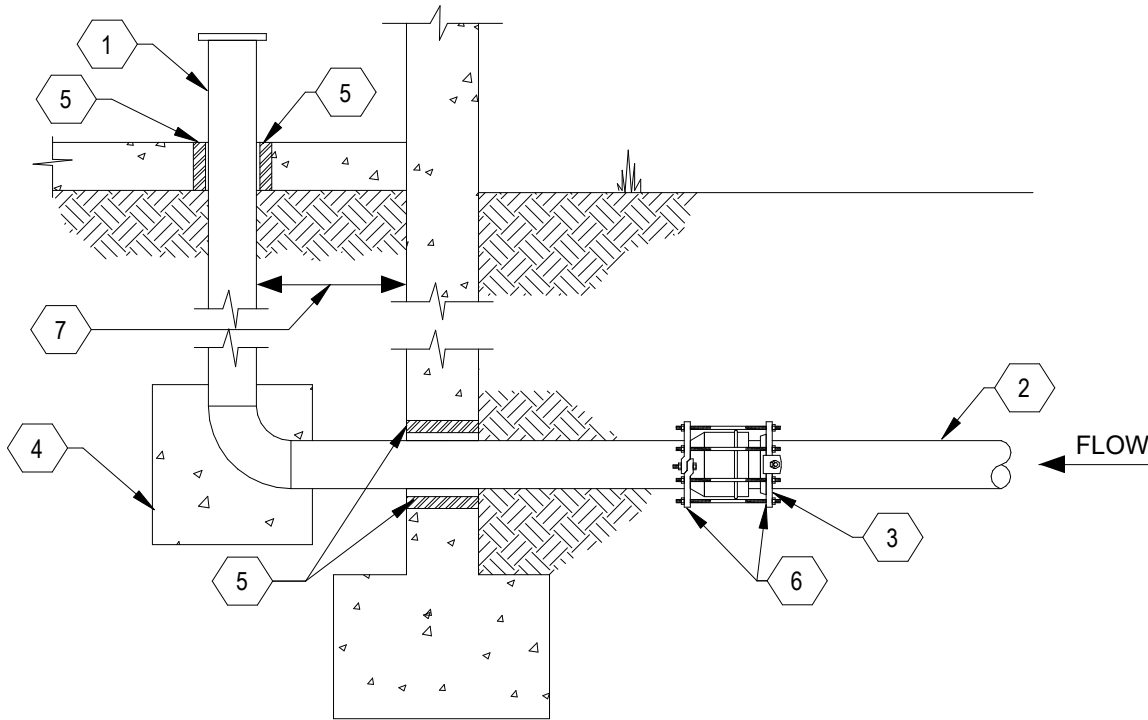
ISSUE:	
DATE:	
PROJECT NO:	751
CAD DWG FILE:	
DRAWN BY:	AJM/SNB
CHECKED BY:	IM

SHEET TITLE
FIRE PROTECTION DETAILS

FX501



D5 FIRE SPRINKLER CEILING TILE DETAIL
SCALE: NOT TO SCALE



- 1

AMES IN-BUILDING RISER. STAINLESS STEEL TYPE 304. SEE PLANS FOR SIZE AND SERVICE
- 2
- DUCTILE IRON OR PVC WATER SERVICE.

3

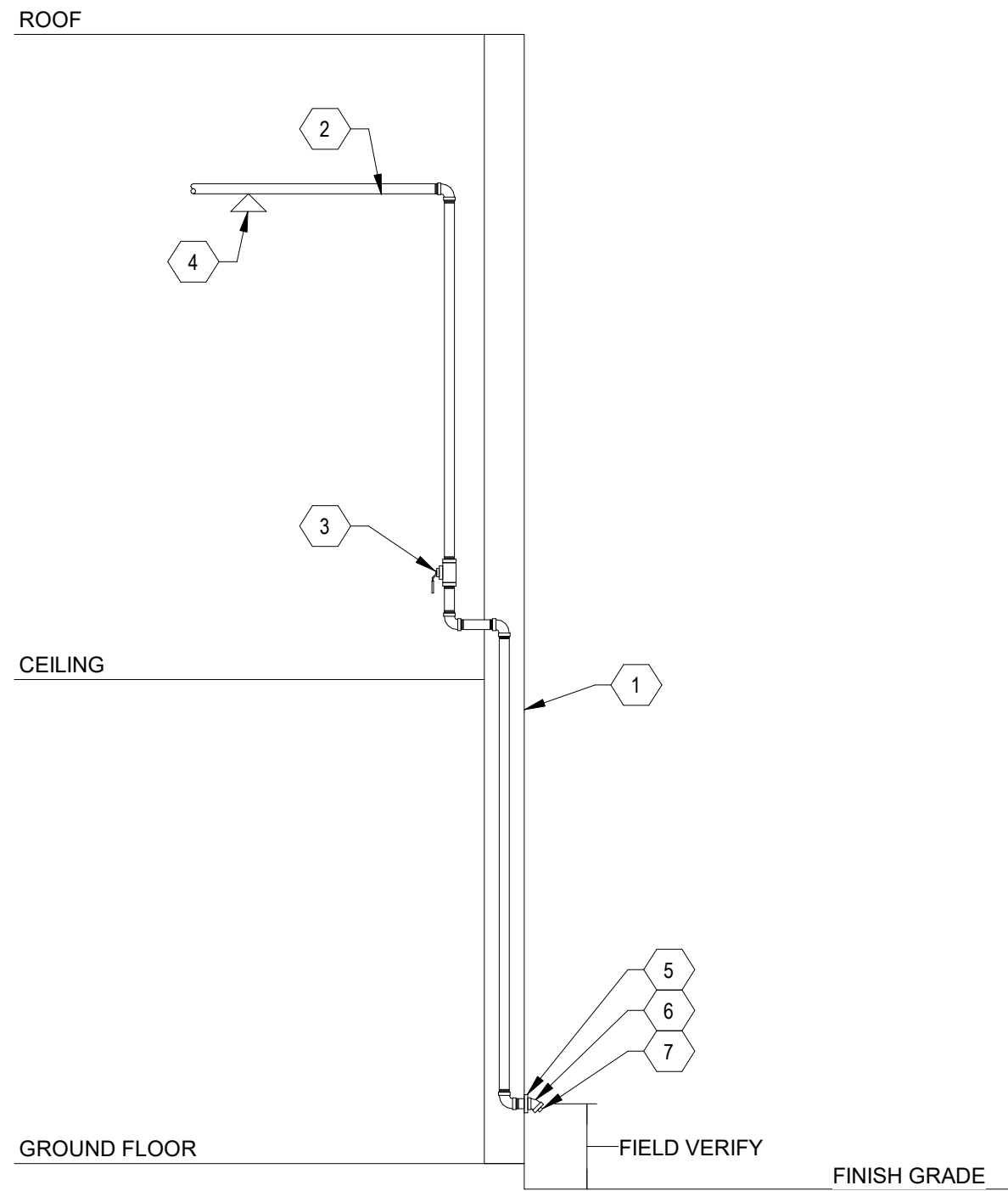
4

5

6

7

C4 WATER ENTRY THRU FOOTING DETAIL
SCALE: NOT TO SCALE



- 1

EXTERIOR WALL
- 2
- 1" SUPPLY FROM SPRINKLER SYSTEM ZONE

3

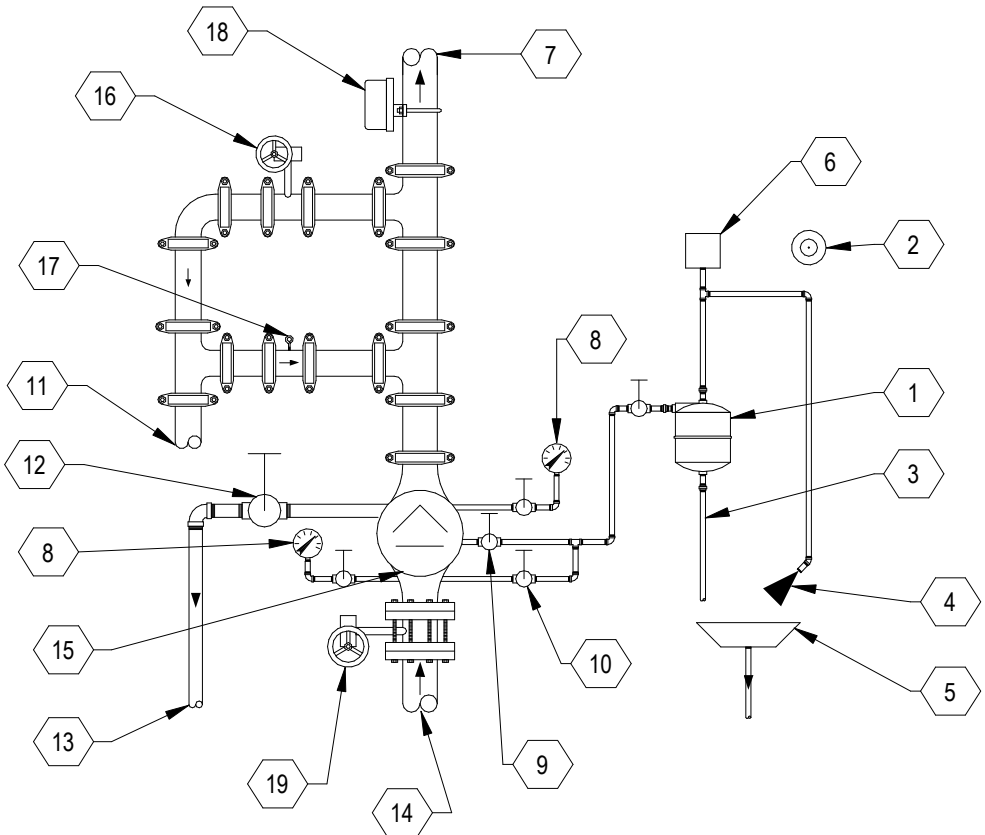
4

5

6

7

C5 INSPECTORS TEST DRAIN VALVE
SCALE: NOT TO SCALE



- 1

RETARDING CHAMBER
- 2
- ELECTRIC ALARM LOCATED 8'-0" AFG & ADJACENT TO SIAMSESE FIRE DEPARTMENT INLET CONNECTION

3

4

5

6

7

8

9

10

11

12

13

14

15

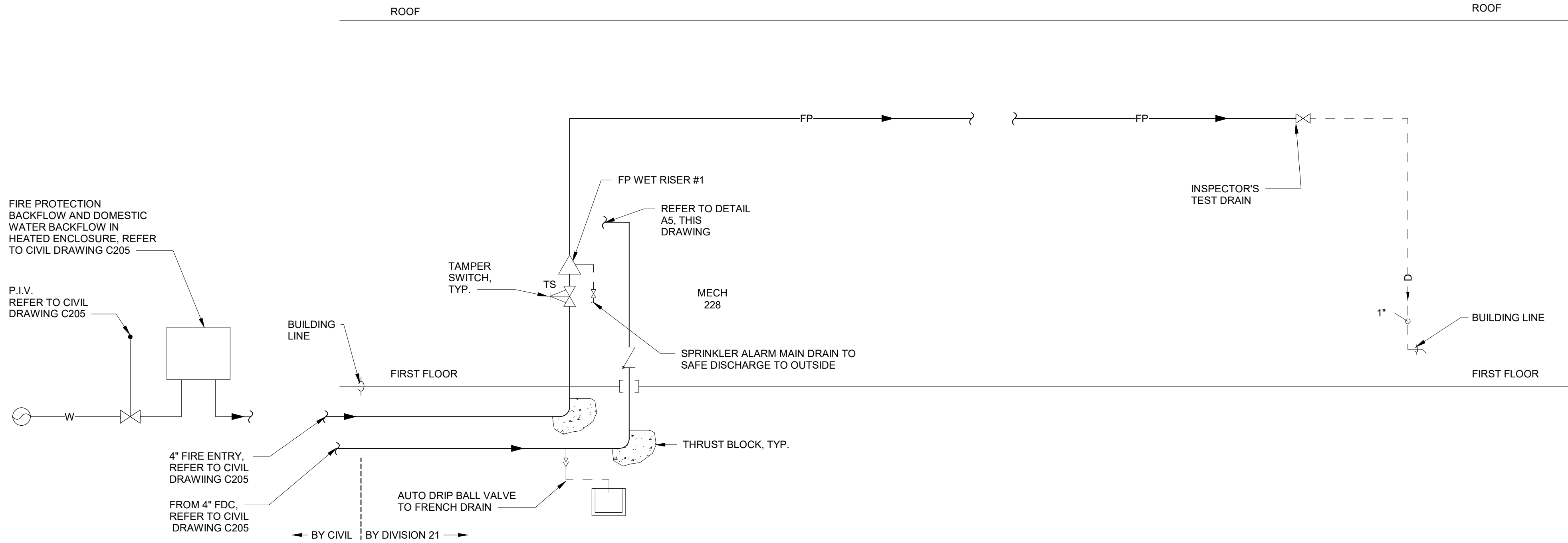
16

17

18

19

A5 SPRINKLER ALARM VALVE
SCALE: NOT TO SCALE

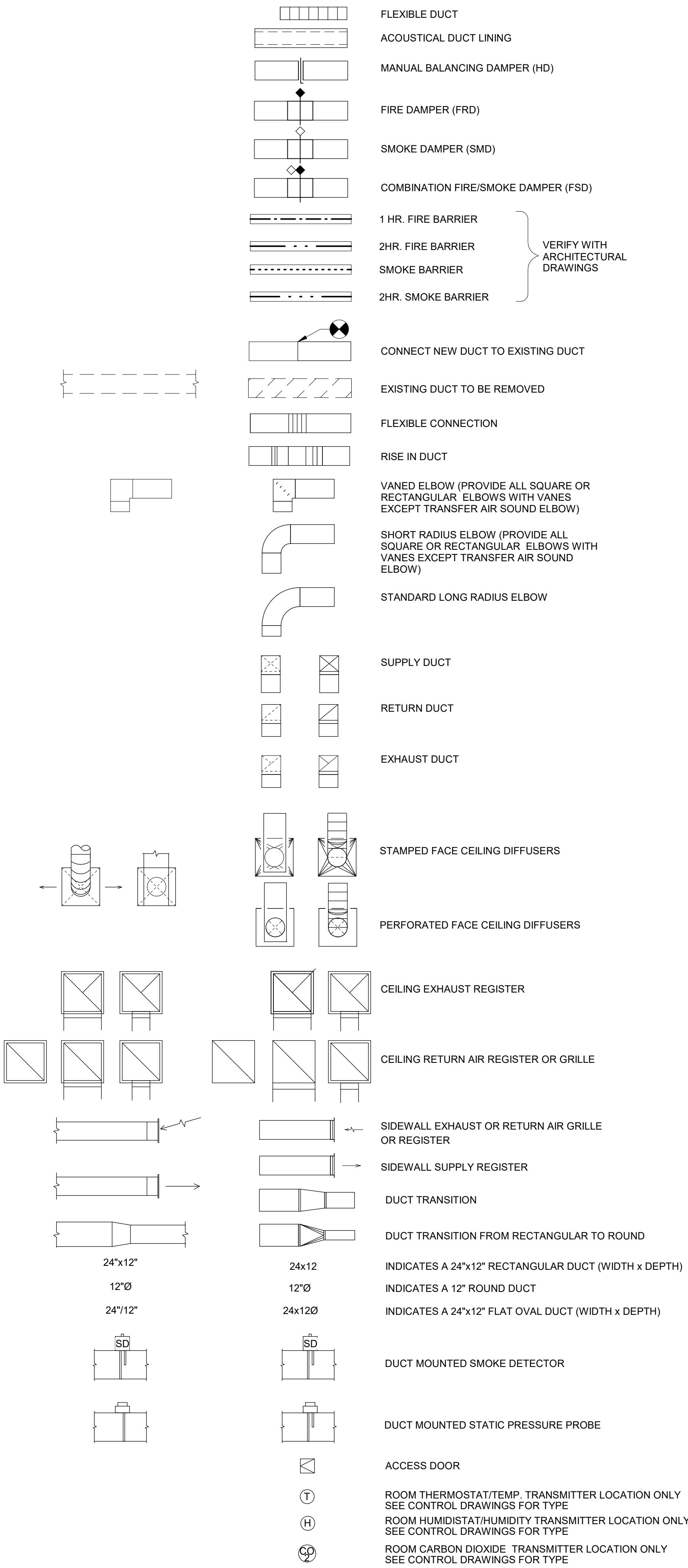


A1 FIRE PROTECTION DIAGRAM
SCALE: NOT TO SCALE

ABBREVIATIONS

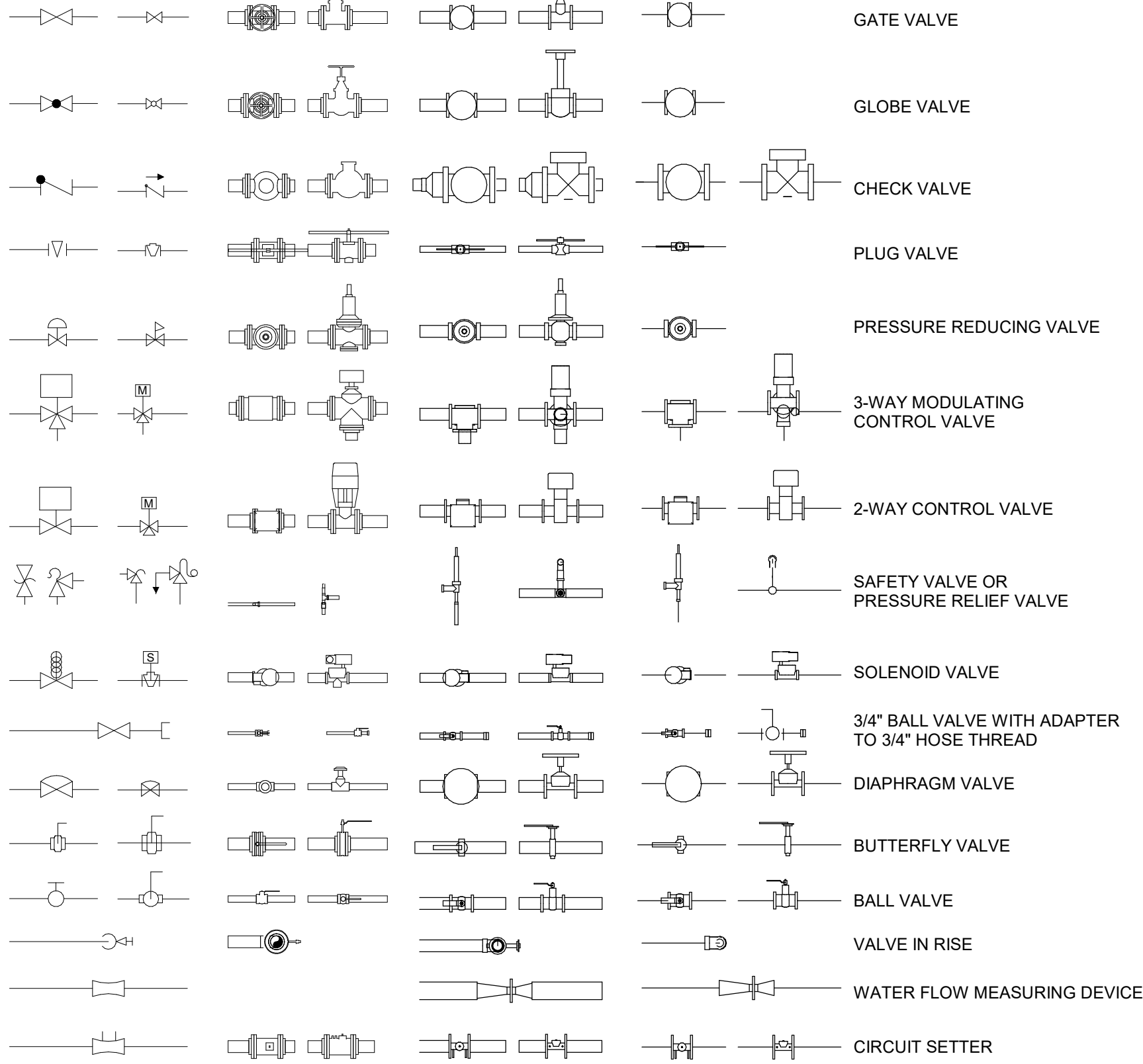
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AL	ACOUSTIC LINING
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CONT.	CONTINUATION
D	DRAIN
DX	DIRECT EXPANSION
ENT	ENTERING
EXH	EXHAUST
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
°F	DEGREES FAHRENHEIT
FB	FLAT BOTTOM
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
F.G.	FILTER GAUGE
FLEX	FLEXIBLE
FPM	FEET PER MINUTE
FS	FLOOR SINK
FT	FLAT TOP
FT.	FEET
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HD	HAND DAMPER (VOLUME DAMPER)
HEPA	HIGH EFFICIENCY PARTICULATE AIR (FILTER)
IN	INCHES
KW	KILOWATT
KWH	KILOWATT HOUR
MA	MAIN AIR (CONTROLS)
MCC	MOTOR CONTROL CENTER
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO.	NUMBER (QUANTITY)
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH GAGE
QTY	QUANTITY
QUAD	QUADRANT
R.A.	RETURN AIR
Rh	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
SCD	SMOKE CONTROL DAMPER
SP	STATIC PRESSURE (INCHES OF WATER)
SDVV	SINGLE DUCT VARIABLE VOLUME SOUND TRAP
ST	
TOPT	TOP OF PIPE TRAPEZE
TP	TOTAL PRESSURE (INCHES OF WATER)
TYP.	TYPICAL
V	VOLTS
VAC	VOLTS, ALTERNATING CURRENT
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VTR	VENT THRU ROOF

DUCTWORK SYMBOLS

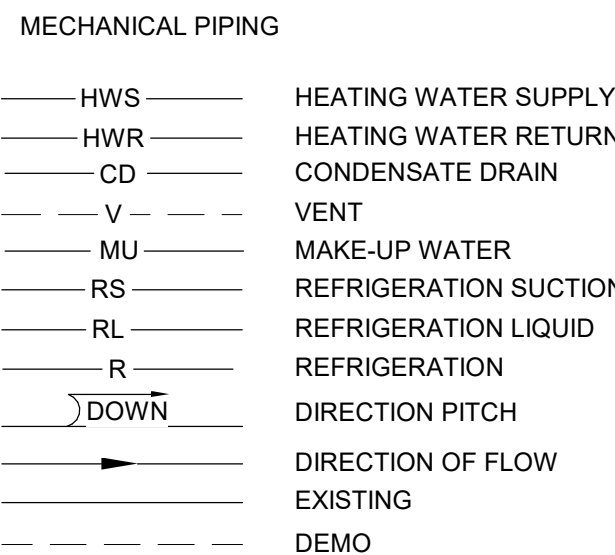


MECHANICAL SYMBOL LEGEND

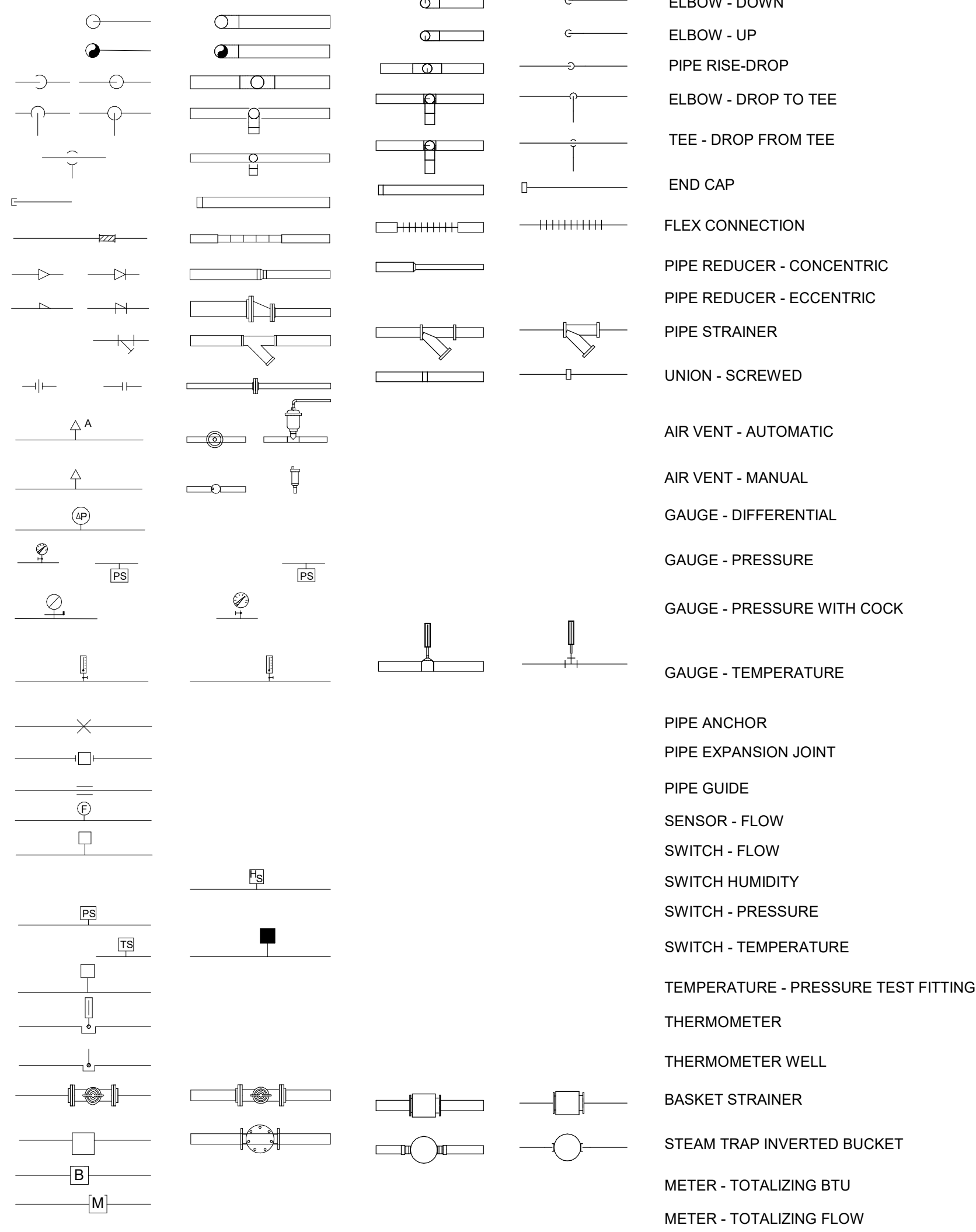
VALVE SYMBOLS



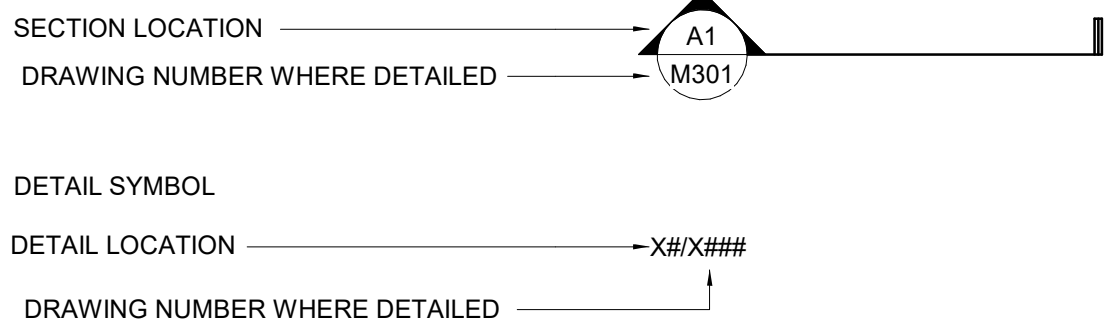
PIPING SYMBOLS



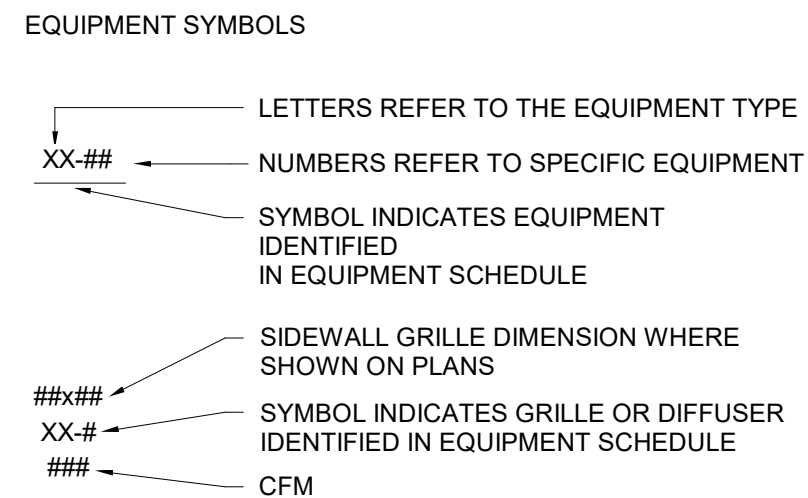
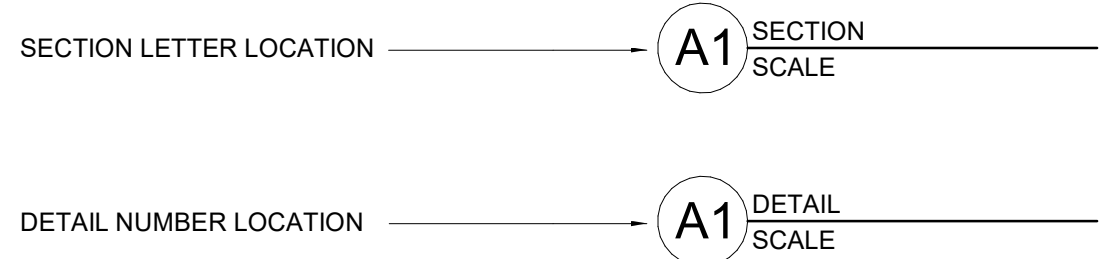
FITTING SYMBOLS



SECTION SYMBOL



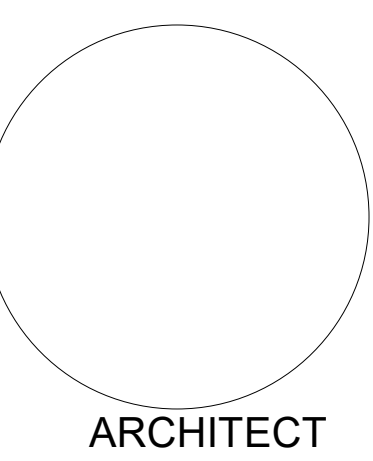
EQUIPMENT SYMBOLS



GENERAL NOTES

- ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR SUSPENDED CEILINGS, UNLESS OTHERWISE NOTED.
- PROVIDE ACCESS PANELS OR DOORS IN INACCESSIBLE CEILINGS AND/OR CHASES FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, COILS, FANS, CONTROLS, ETC. THEY SHALL BE FURNISHED UNDER DIVISION 23 AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATION. ACCESS DOOR RATING SHALL MATCH CLASSIFICATION OF WALL AND CEILING FIRE RATING.
- WATER PIPE CONNECTIONS TO WATER COILS SHALL BE MADE SO THERE WILL BE COUNTER FLOW BETWEEN WATER AND AIR.
- COORDINATE THE LOCATION OF ALL DIFFUSERS, GRILLES, REGISTERS, ACCESS DOORS, ETC., WITH THE ARCHITECTURAL REFLECTED CEILING PLAN(S).
- ALL ROUND RUNOUTS AND DROPS TO DIFFUSERS SHALL BE THE SAME NOMINAL SIZE AS THE SCHEDULED DIFFUSER NECK SIZE.
- THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. ALL DUCT SIZES SHOWN ON DRAWINGS ARE NET INSIDE DIMENSIONS. PROVIDE ONE INCH ACOUSTICAL LINING (TYPE D3 INSULATION) IN LOW VELOCITY RECTANGULAR DUCTWORK FOR THE FIRST 10 DIAMETERS OF DUCTWORK CONNECTED TO DEVICE, OR AS INDICATED ON DRAWINGS, WHICHEVER IS GREATER. FOR THE REMAINDER OF THIS DUCTWORK PROVIDE AS INDICATED IN THE INSULATION SPECIFICATIONS.
- PROVIDE 1/2" MANUAL AIR VENTS AT ALL HIGH POINTS OF CLOSED SYSTEM PIPING AND 1/2" MANUAL DRAIN VALVES WITH HOSE CONNECTION AT LOW POINTS AS REQUIRED TO PROVIDE COMPLETE SYSTEM DRAINAGE. WHERE DRAIN VALVES OCCUR ABOVE CEILING AREAS AND IN AREAS OUTSIDE MECHANICAL RANGE PROVIDE HOSE CONNECTION ON VALVE.
- PROVIDE TURNING VANES IN ALL SQUARE ELBOWS, EXCEPT TRANSFER AIR SOUND ELBOWS.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND/OR SMOKE RATED WALLS AND ASSEMBLIES. PROVIDE APPROVED FIRE DAMPERS IN ALL REQUIRED PENETRATIONS FOR DUCTWORK, GRILLES, REGISTERS AND DIFFUSERS. ALL PIPE AND DUCTWORK PENETRATIONS OF FIRE, SMOKE AND FULL HEIGHT WALLS SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. APPROVED FIRE PROOF CAULKING MATERIAL.
- CONTRACTOR SHALL COORDINATE ALL DUCTWORK, PIPING, PLUMBING AND FIRE PROTECTION PIPING WITH STRUCTURAL AND ELECTRICAL SYSTEMS AND SHALL PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN EQUIPMENT ACCESS AND SERVICEABILITY.
- CONTRACTOR SHALL FURNISH ALL NECESSARY STRUCTURES, INSERTS, SLEEVES, AND HANGING DEVICES FOR INSTALLATION OF MECHANICAL AND PLUMBING EQUIPMENT, DUCTWORK AND PIPING, ETC. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND ALL BUILDING TRADES TO AVOID CONFLICTS AND TO MAINTAIN EQUIPMENT ACCESS AND SERVICEABILITY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY MISCELLANEOUS ANGLES, CHANNELS, UNISTRUT, ETC. AS MAY BE REQUIRED TO ADEQUATELY SUPPORT THE MECHANICAL, PIPING, DUCTWORK, AND EQUIPMENT IN A MANNER APPROVED BY THE ARCHITECT, WHICH WILL NOT OVERLOAD THE BUILDING STRUCTURAL SYSTEM.
- CONTRACTOR SHALL PROVIDE RETURN AIR OR TRANSFER AIR OPENINGS IN FULL HEIGHT WALLS SIZED AT 350 FPM (UNLESS OTHERWISE SPECIFICALLY SHOWN ON THE DRAWINGS) TO CREATE AND/OR MAINTAIN A RETURN AIR PATH AS REQUIRED. FIRE DAMPERS AND/OR SMOKE DAMPERS SHALL BE PROVIDED IN SUCH OPENINGS WHERE REQUIRED BY NOTE "J".
- SEAL ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, DUCT WALL PENETRATIONS AND FITTING CONNECTIONS ON ALL DUCT SYSTEMS.
- MECHANICAL ITEMS SUCH AS ROOF DRAINS, FLOOR DRAINS, PLUMBING FIXTURES, ETC. SHOWN ON THE ARCHITECTURAL DRAWINGS BUT NOT SHOWN ON THE MECHANICAL DRAWINGS SHALL BE INCLUDED IN THE PROJECT. THESE ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR INCLUSION IN ADDENDUM.

CONSULTANT



Dzilth-Na-O-Dith-Hle - New Dormitory Building

PRICING SET

35 Road 7585, Bloomfield, NM 87413

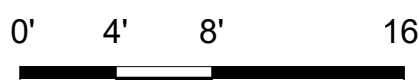
NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
------	------	-------------

ISSUE:	
DATE:	
PROJECT NO:	751
CAD DWG FILE:	
DRAWN BY:	NZ
CHECKED BY:	IM

SHEET TITLE
MECHANICAL LEGEND

M-001




- A. ALL INTERIOR CONCEALED SUPPLY SLASH SHALL BE WRAPPED WITH 1 5" TYPE D-3. SEE SPECIFICATION 230700 FOR ADDITIONAL INSULATION INFORMATION.
- B. ALL INTERIOR RETURN AIR DUCTWORK SHALL BE ACoustically LINED WITH TYPE D-3. SEE SPECIFICATION 230700 FOR ADDITIONAL INSULATION INFORMATION.
- C. THE FIRST 10 FT (MINIMUM) AND EXHAUST DUCTWORK UPSTREAM OF EXHAUST FANS SHALL BE ACoustically LINED WITH TYPE D-3. SEE SPECIFICATION 230700 FOR ADDITIONAL INSULATION INFORMATION.
- D. ALL BRANCH DUCTWORK TO SUPPLY DIFFUSERS SHALL BE SIZED TO MATCH NECK SIZE OF DIFFUSER AS INDICATED ON "GRILLE/DIFFUSER" SCHEDULE ON SHEET M-702.
- E. ALL BRANCH DUCTWORK TO SUPPLY DIFFUSERS AND EXHAUST GRILLES NOT FURNISHED WITH OPPOSED BLADE DAMPERS SHALL INCLUDE BALANCING DAMPERS IN LOCKING QUADRANT.
- F. COORDINATE ALL DUCT AND PIPE ROUTING AND INSTALLATION WITH STRUCTURAL PLANS AND ARCHITECTURAL FLOOR PLANS.
- G. THERMOSTATS SHALL BE MOUNTED AT 48" A.F. ALL THERMOSTATS IN STUDENT AREAS SHALL BE FURNISHED AND INSTALLED WITH METAL COVERING COVERS.
- H. ALL EXPOSED DUCTWORK AND GRILLES SHALL BE CLEANED, DEGREASED AND PREPARED FOR PAINTING. DUCTWORK SHALL BE PAINTED PER ARCHITECTURE DRAWINGS FOR EXTERIOR SMOKE DETECTOR LOCATIONS ABOVE HARD CEILINGS.
- I. 2X4X4 CEILING ACCESS DOORS SHALL BE PROVIDED AT ALL BALANCING DAMPERS, FIRE DAMPERS AND DUCT MOUNTED SMOKE DETECTOR LOCATIONS ABOVE HARD CEILINGS.
- J. SEE SHEETS M-501 TO M-504 FOR MECHANICAL DETAILS.

- PROVIDE WALL MOUNTED SPLIT SYSTEM DRAIN SIZED PER MANUFACTURER'S INSTRUCTIONS. COORDINATE CONDENSATE DRAIN WITH MECHANICAL CONTRACTOR. PROVIDE PIPING AS SIZED ON PLAN. VERIFY EXACT PIPE SIZES REQUIRED WITH MANUFACTURER AND TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S REQUIREMENTS. COORDINATE CONTRACTOR TO COORDINATE SHORTEST CONCEALED ROUTING TO ASSOCIATED REMOTE CONDENSING UNIT. INSTALL ALL VALVES AND ACCESSORIES FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO DETAILS AND EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
- 14'X14" EXHAUST DUCT UP TO EF-4 ON THE ROOF.
- 12'X12" EXHAUST DUCT UP TO EF-3 ON THE ROOF.
- 12'X12" EXHAUST DUCT UP TO EF-4 ON THE ROOF.
- 14'X14" EXHAUST DUCT UP TO EF-4 ON THE ROOF.
- 14'X22" SUPPLY AND 72'X20" RETURN DUCT UP TO AHU-1 IN THE PENTHOUSE.
- INSTALL SMOKE DETECTOR AND SAMPLING TUBES FURNISHED BY DIVISION 28 IN DUCTWORK. POWER AND WIRING BY DIVISION 26 AND DIVISION 28.
- INSTALL STATIC PRESSURE SENSOR FOR SUPPLY FAN CONTROL IN DUCT AT APPROXIMATE LOCATION SHOWN.
- STAINLESS STEEL RESIDENTIAL HOOD (H0-1) MOUNTED 30"-36" ABOVE COOK TOP. COORDINATE INSTALLATION WITH KITCHEN CABINETS AND SINK. PROVIDE 1/2" AIR GAP AS REQUIRED. EXHAUST DUCT PER MANUFACTURER'S INSTRUCTIONS. WRAP THE FLUE PER MANUFACTURER'S REQUIREMENT. SEE MECHANICAL SCHEDULE M-102 FOR MORE INFO.
- EXTEND 8' DIA FLUE UP TO ROOF. PROVIDE 12'X12" STAINLESS STEEL DUCT COVER. WRAP THE FLUE PER MANUFACTURERS REQUIREMENT.
- EXTEND 4" VENT UP THRU ROOF AND TERMINATE WITH GOOSENECK. PROVIDE DUCT THRU ROOF CURB. GOOSENECK DISCHARGE SHALL BE APPROX. 24" ABOVE FINISHED ROOF. DRYER VENT DUCTWORK MUST NOT HAVE ANY SCREWS OR OTHER FASTENERS PROJECTING INSIDE DUCTWORK. INSTALL PER TRADE. COORDINATE EXACT MOUNTING HEIGHT REQUIRED WITH DRYER VENT OUTLET.
- PROVIDE LINEAR DIFFUSER PRICE SCD-100, 300 CFM, 4 FEET, 4 SLO.T, 10" DIA. INLET, NC-22.
- PROVIDE LINEAR DIFFUSER PRICE SCD-100, 300 CFM, 4 FEET, 4 SLO.T, 8" DIA. INLET, NC-35.

CONSULTANT

B **BRIDGERS
& PAXTON**

4600 C Montgomery Blvd. NE
Albuquerque, NM 87109 | 505.883.4111 | www.bpce.com



ARCHITECT

**Dzilth-Na-O-Dith-Hle -
New Dormitory
Building**

PRICING SET

35 Road 7585, Bloomfield, NM
87413

NOVEMBER 10, 2020

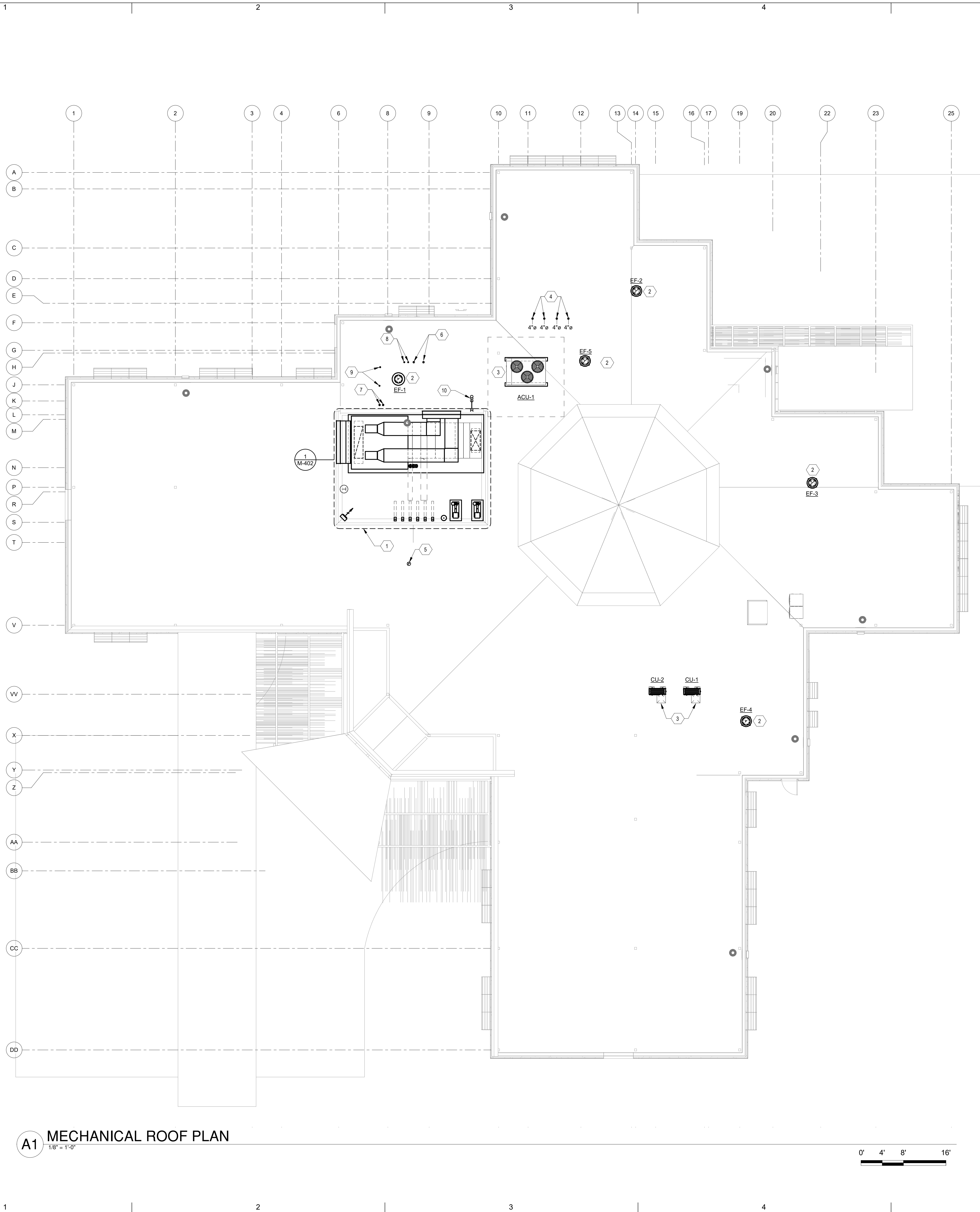
MARK	DATE	DESCRIPTION
------	------	-------------

ISSUE:	
DATE:	
PROJECT NO:	751
CAD DWG FILE:	
DRAWN BY:	NZ
CHECKED BY:	IM

SHEET TITLE

HVAC FLOOR PLAN

MH-101



A1 MECHANICAL ROOF PLAN
1/8" = 1'-0"

GENERAL NOTES

- A. COORDINATE ALL DUCT AND PIPE ROUTING AND INSTALLATION WITH STRUCTURAL PLANS AND ARCHITECTURAL FLOOR PLANS.
- B. SEE SHEETS M-501 TO M-504 FOR MECHANICAL DETAILS.
- C. ALL LOW VOLTAGE WIRING (LESS THAN 50 VOLTS) SHALL BE PROVIDED DIV. 23. ALL WIRING (GREATER THAN 50 VOLTS) SHALL BE PROVIDED BY DIV. 26 OR OTHER WHERE NOTED.
- D. MAINTAIN MINIMUM 10 FT CLEARANCE BETWEEN PLUMBING VENTS, EXHAUST FANS AND OUTSIDE AIR INTAKES.
- E. COORDINATE DUCT PENETRATIONS THROUGH ROOF WITH STRUCTURAL DRAWINGS.
- F. COORDINATE INSTALLATION OF HVAC EQUIPMENT WITH ELECTRICAL AND PLUMBING DISCIPLINES.
- G. MECH EQUIPMENT SHALL BE LABELED WITH 2" HIGH STENCIL LETTERS IN BLACK PAINT AND SHALL INCLUDE UNIT NUMBER AND AREA SERVED.

KEYNOTES

- 1. SEE SHEET M-401 FOR ADDITIONAL INFO.
- 2. INSTALL ROOF MOUNTED EXHAUST FAN ON 14" TALL ROOF CURB. PROVIDE BACKDRAFT DAMPER TRAY AND DAMPER INSIDE ROOF CURB. INSTALL EXHAUST FAN LEVEL. PROVIDE DUCT TRANSITION FROM OPENING TO DUCT SIZE SHOWN ON PLAN. TRANSITION DUCT IN CURB AND EXTEND DUCT DOWN THRU ROOF. COORDINATE WITH STRUCTURE. REFER TO DETAIL XM-50X AND EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
- 3. INSTALL AND ANCHOR CONDENSING UNIT ON TWO ROOF SKIDS WITH RAILS INSIDE ROOF CURB. PIPING ABOVE ROOF SHALL BE INDIVIDUALLY INSULATED WITH FIBERGLASS WRAP. TAPED AT 1FT INTERVALS AND ALUMINUM JACKETED. AT LOCATIONS WITH MULTIPLE CONDENSING UNITS, THE CONTRACTOR SHALL ORIENT THE FAN INLET AND DISCHARGE OF EACH UNIT SO THE HOT DISCHARGE AIR FROM ONE UNIT DOES NOT ENTER THE INLET OF ANOTHER UNIT.
- 4. 8" DIA DRYER VENT FROM FIRST FLOOR. TERMINATE WITH GOOSENECK. PROVIDE DUCT THRU ROOF CURB. GOOSENECK DISCHARGE SHALL BE APPROX. 24" ABOVE FINISHED ROOF. DRYER VENT DUCTWORK MUST NOT HAVE ANY SCREWS OR OTHER FASTENERS PROJECTING INSIDE THE DUCTWORK. INSTALL PER CODE. COORDINATE EXACT MOUNTING HEIGHT REQUIRED WITH DRYER VENT OUTLET.
- 5. 8" DIA FLUE FROM RESIDENTIAL HOOD. WRAP THE FLUE PER MANUFACTURER'S REQUIREMENT. FLASH DUCT AND ROOF PENETRATION PER ARCHITECTURAL DETAILS.
- 6. 4" DIA. FLUE FROM HOT WATER BOILERS IN MECH ROOM. INSTALL STAINLESS STEEL MATERIAL. OFFSET IN CEILING AND TERMINATE MINIMUM 3 FT ABOVE COMBUSTION AIR PIPE AND INTAKE OPENINGS WITHIN 10 FT.
- 7. 4" DIA CA FROM HOT WATER BOILERS IN MECH ROOM. INSTALL PER MANUFACTURER INSTRUCTIONS. TERMINATE WITH APPROVED TERMINATION.
- 8. 3" DIA. FLUE FROM WATER HEATERS IN MECH ROOM. INSTALL STAINLESS STEEL MATERIAL. TERMINATE FLUE MINIMUM 3 FT ABOVE COMBUSTION AIR PIPE AND INTAKE OPENINGS WITHIN 10 FT.
- 9. 3" DIA CA FROM WATER HEATERS IN MECH ROOM. INSTALL PER MANUFACTURER INSTRUCTIONS. OFFSET IN CEILING AND PROVIDE APPROVED TERMINATION.
- 10. AIR HANDLING UNIT S.O.A.P. STATION. REFER TO DETAIL 3/M-502 FOR ADDITIONAL INFO.

CONSULTANT

Dzilth-Na-O-Dith-Hle -
New Dormitory
Building

PRICING SET

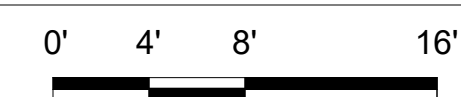
35 Road 7585, Bloomfield, NM
87413

NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
ISSUE:		
DATE:		
PROJECT NO:		751
CAD DWG FILE:		
DRAWN BY:		NZ
CHECKED BY:		IM

SHEET TITLE
MECHANICAL ROOF PLAN

MH-131



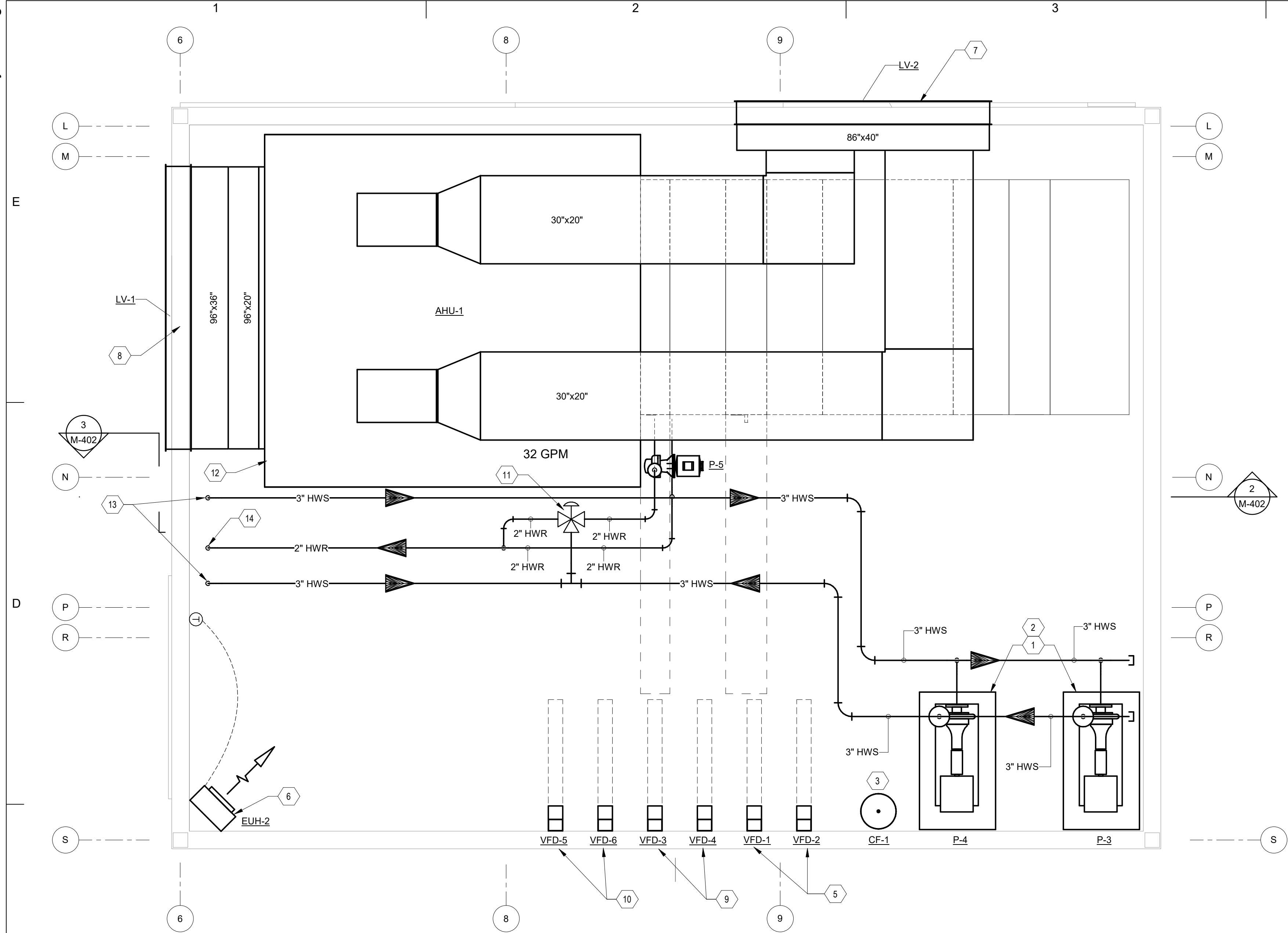
1. ROUTE REFRIGERANT SUCTION AND LIQUID LINES FROM FAN COIL UNIT UP TO CONDENSING UNIT ON THE ROOF. REFER TO SPLIT SYSTEM SCHEDULE ON SHEET M-702 FOR REFRIGERANT PIPE SIZES. REFER TO PLUMBING SHEETS FOR CONDENSATE DRAIN PIPING.
2. INDOOR FAN COIL UNIT FURNISHED WITH CONDENSATE PUMP. REFER TO PLUMBING SHEETS FOR ROUTING OF CONDENSATE PIPING.
3. SEE SHEET M-401 FOR ENLARGED MECHANICAL PLAN.
4. 3" HWS PIPE TO / FROM PENTHOUSE.
5. 2" HWR PIPE FROM PENTHOUSE.
6. PROVIDE 3-WAY CONTROL VALVE FOR HOT WATER REHEAT COIL AT TERMINAL UNIT. SEE TERMINAL EQUIPMENT SCHEDULE ON SHEET M-701 AND SINGLE DUCT VAV TERMINAL UNIT WITH REHEAT COIL (3-WAY VALVE) DETAIL 11M-502 FOR PIPING CONFIGURATION.
7. DIFFERENTIAL PRESSURE SENSOR CONNECTED TO HWS & HWR PIPES. PUMP SPEED AND HOT WATER SYSTEM FLOW RATE SHALL BE CONTROLLED BASED ON SENSED DIFFERENTIAL PRESSURE AT THIS LOCATION.

**BRIDGERS
& PAXTON**
4600 C Montgomery Blvd. NE
Albuquerque, NM 87109 | 505.883.4111 | www.bpce.com

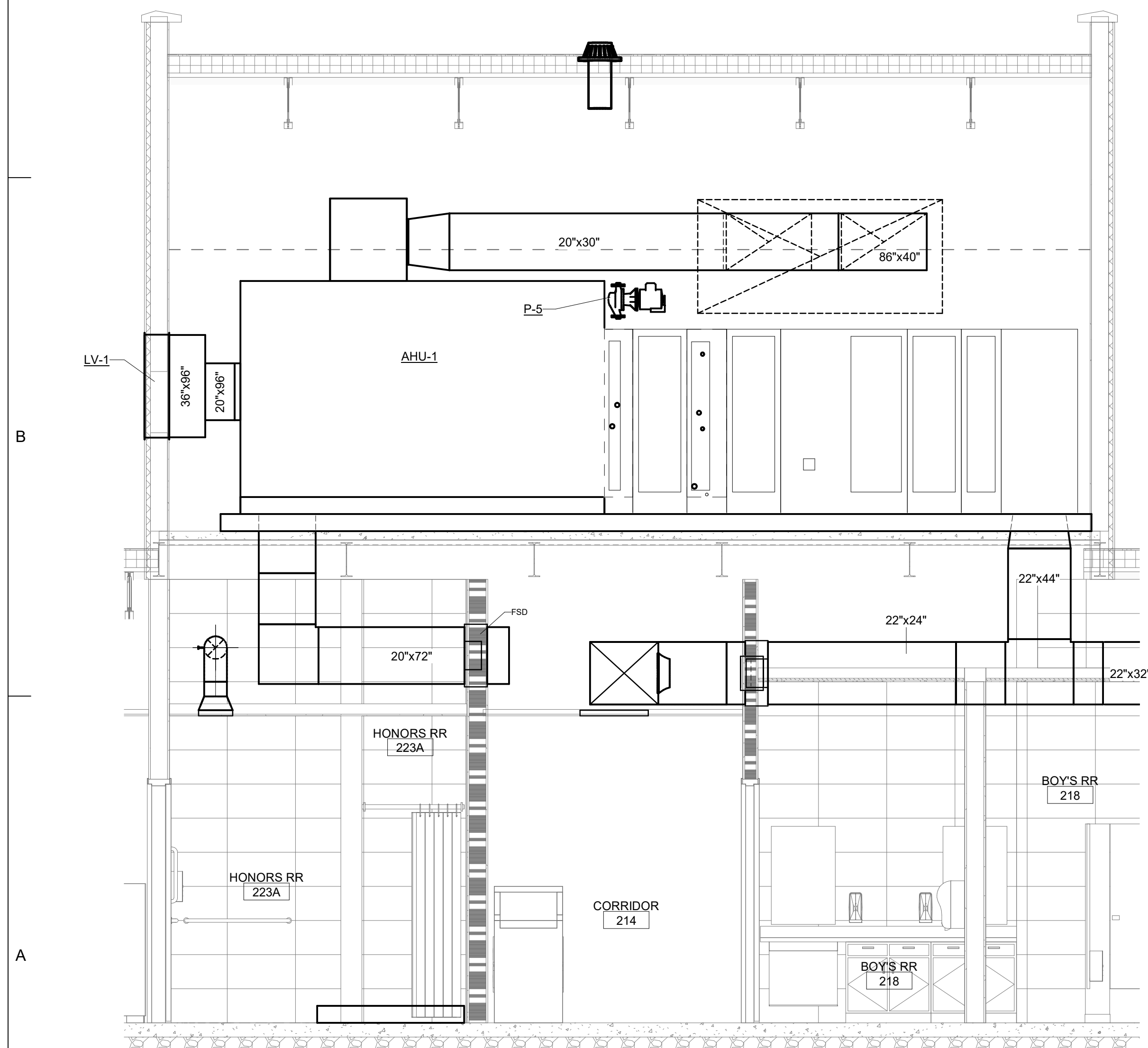
MP-101



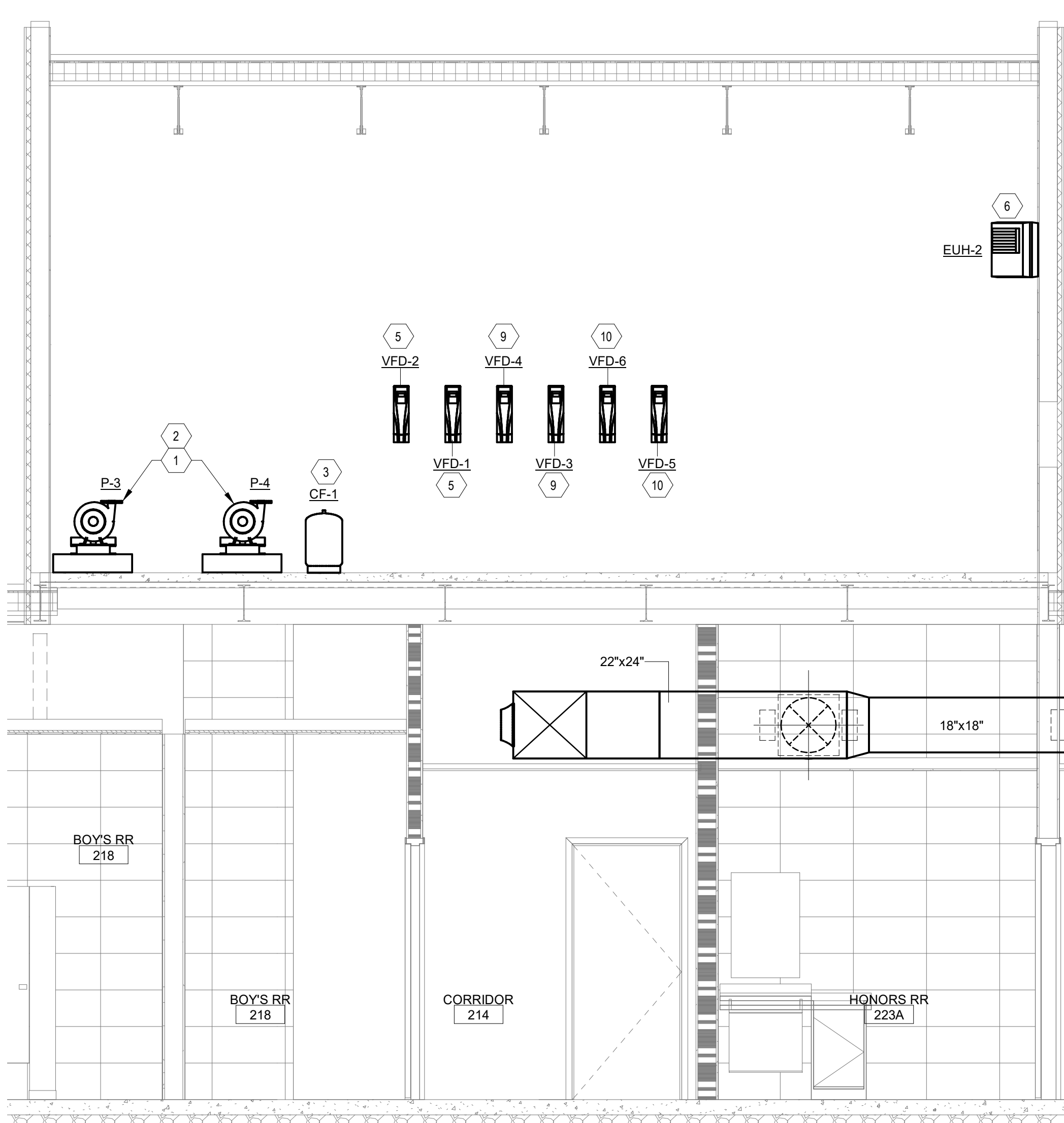
- M-401



1 MECH PENTHOUSE - ENLARGED PLAN
1/2" = 1'-0"



2 MECH PENTHOUSE SEC-1
3/8" = 1'-0"



3 MECH PENTHOUSE SEC-2
3/8" = 1'-0"

KEYNOTES

1. PROVIDE A 4" HOUSEKEEPING PAD BELOW EQUIPMENT.
2. ANCHOR SECONDARY HOT WATER PUMP TO HOUSEKEEPING PAD.
3. CHEMICAL POT FEEDER PIPE ACROSS HWS & HWR PIPING OF SYSTEM. SEE MECH SCHEDULE FOR ADDITIONAL INFO.
4. NOT USED.
5. VARIABLE FREQUENCY DRIVES FOR SECONDARY HW PUMPS (P-3 & P-4). REFER MECH SCHEDULE FOR ADDITIONAL INFO.
6. MOUNT ELEC UNIT HEATER AT 8'-0" AFF. SET THERMOSTAT TO ENERGIZE HEATER AT 60° (ADJUSTABLE).
7. 86"x40" RELIEF AIR LOUVER.
8. 96"x36" OSA LOUVER.
9. VARIABLE FREQUENCY DRIVES FOR AHU-1 SUPPLY FANS. REFER MECH SCHEDULE FOR ADDITIONAL INFO.
10. VARIABLE FREQUENCY DRIVES FOR AHU-1 EXHAUST FANS. REFER MECH SCHEDULE FOR ADDITIONAL INFO.
11. PROVIDE AND INSTALL 3-WAY HOT WATER CONTROL VALVE AND HOT WATER CIRCULATING PUMP AT AHU HEATING COIL PER DETAIL 90M-503.
12. INDOOR CUSTOM AIR HANDLING UNIT ON 4" HOUSEKEEPING PAD IN PENTHOUSE. SEE SHEET M-602 AND MECH SCHEDULE M-701 FOR ADDITIONAL INFO.
13. 3" HWS PIPE TO / FROM FIRST FLOOR.
14. 2" HWR PIPE TO FIRST FLOOR.

Dzilh-Na-O-Dith-Hle - New Dormitory Building

PRICING SET

35 Road 7585, Bloomfield, NM
87413

NOVEMBER 10, 2020

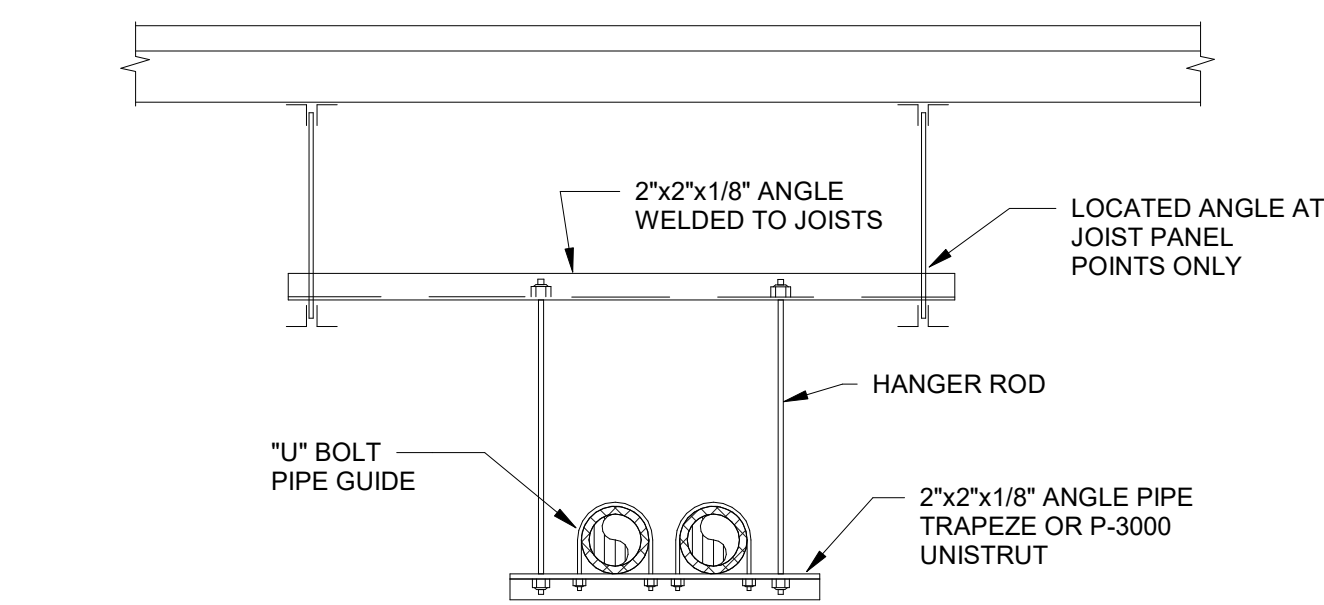
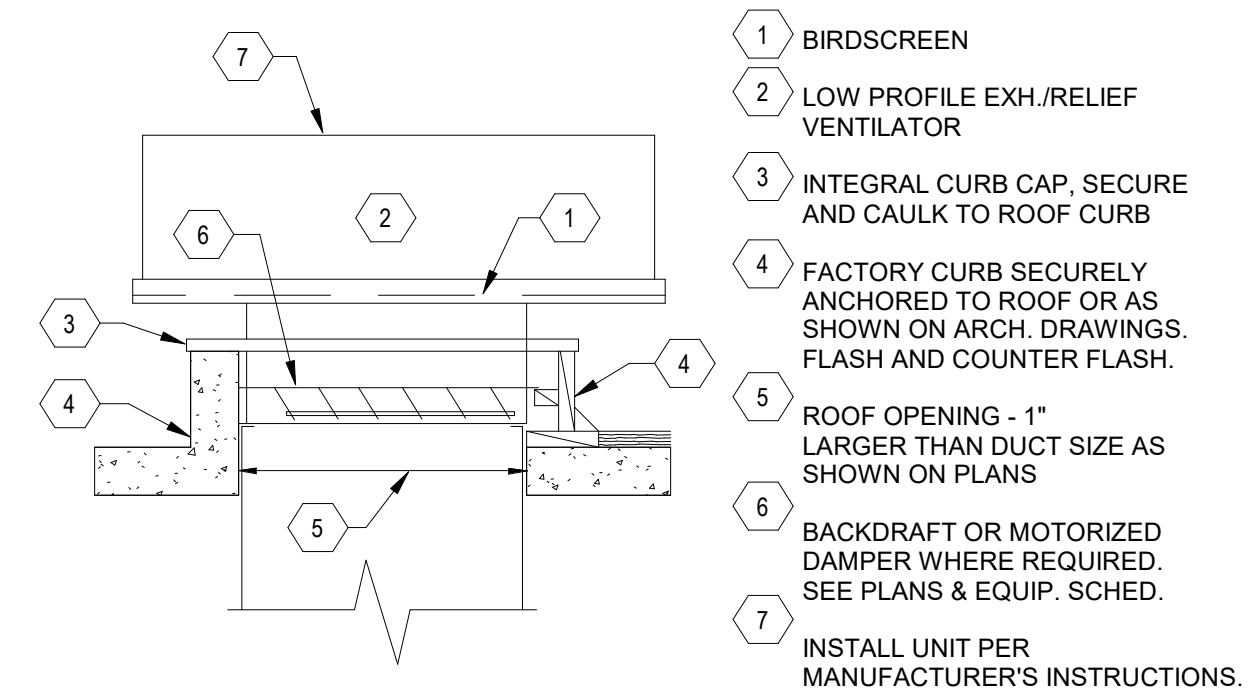
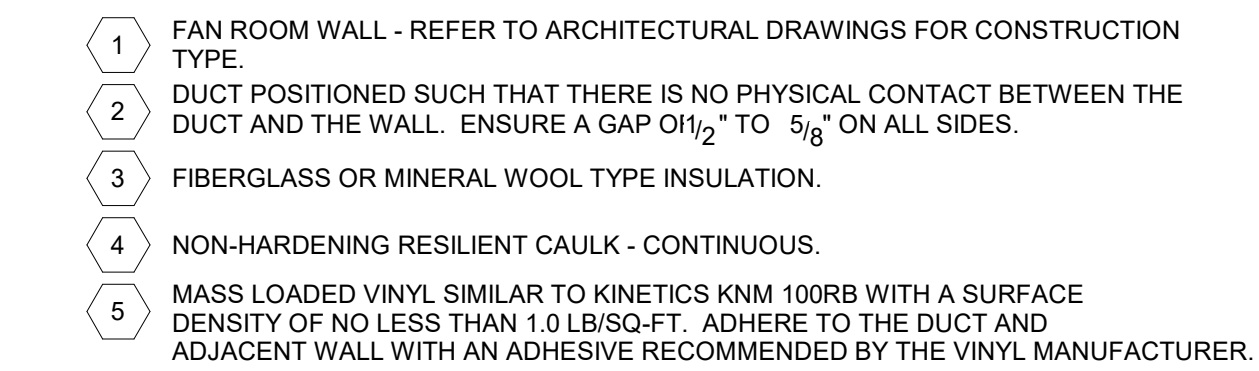
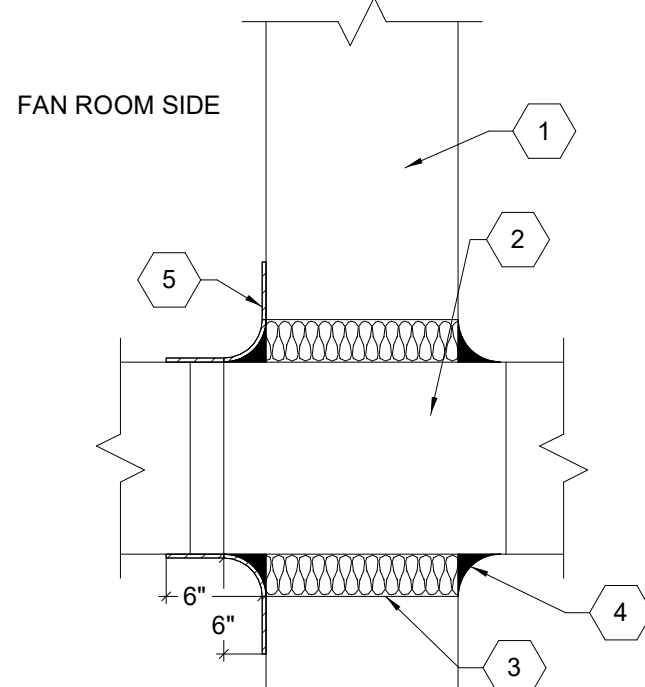
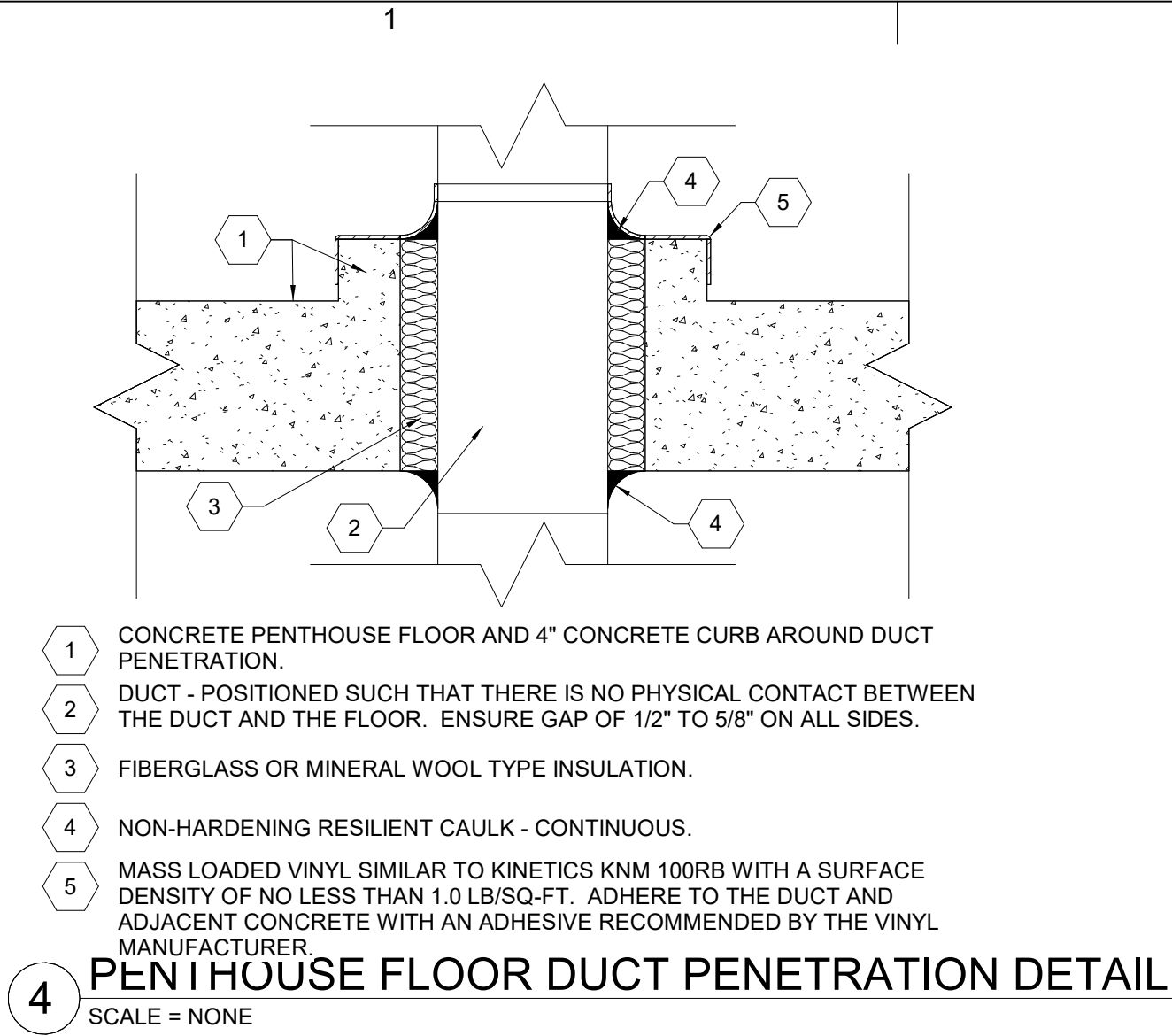
MARK	DATE	DESCRIPTION
ISSUE:		
DATE:		
PROJECT NO:		751
CAD DWG FILE:		
DRAWN BY:		NZ
CHECKED BY:		IM

SHEET TITLE

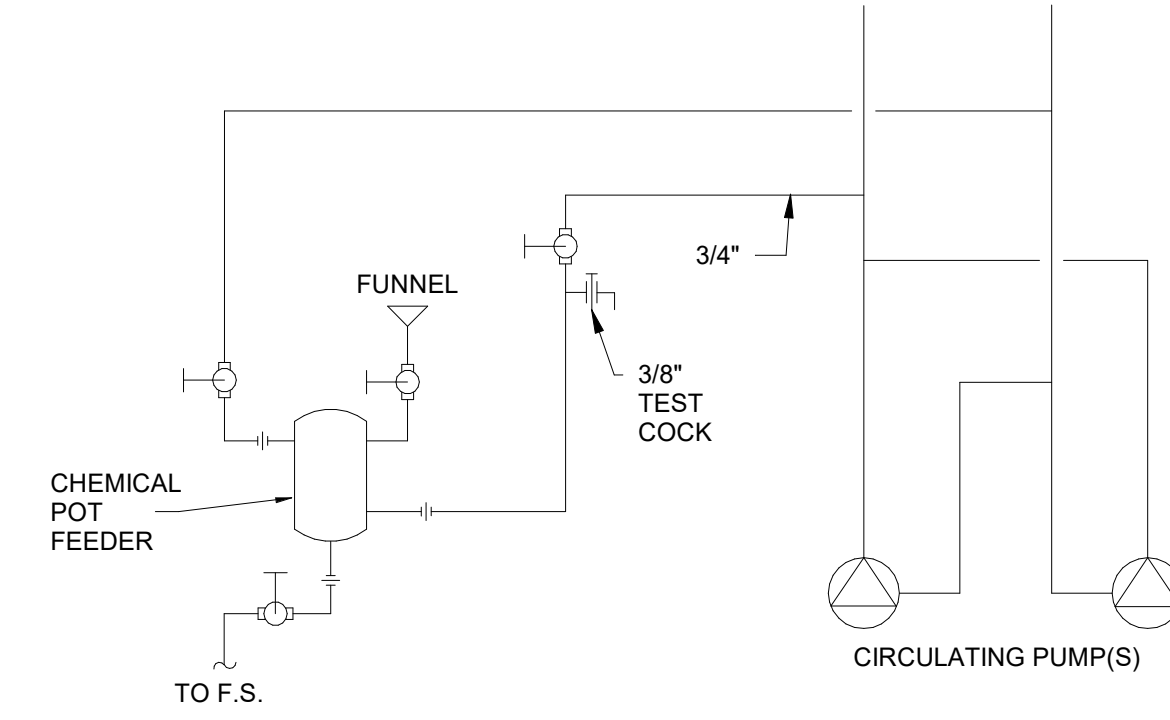
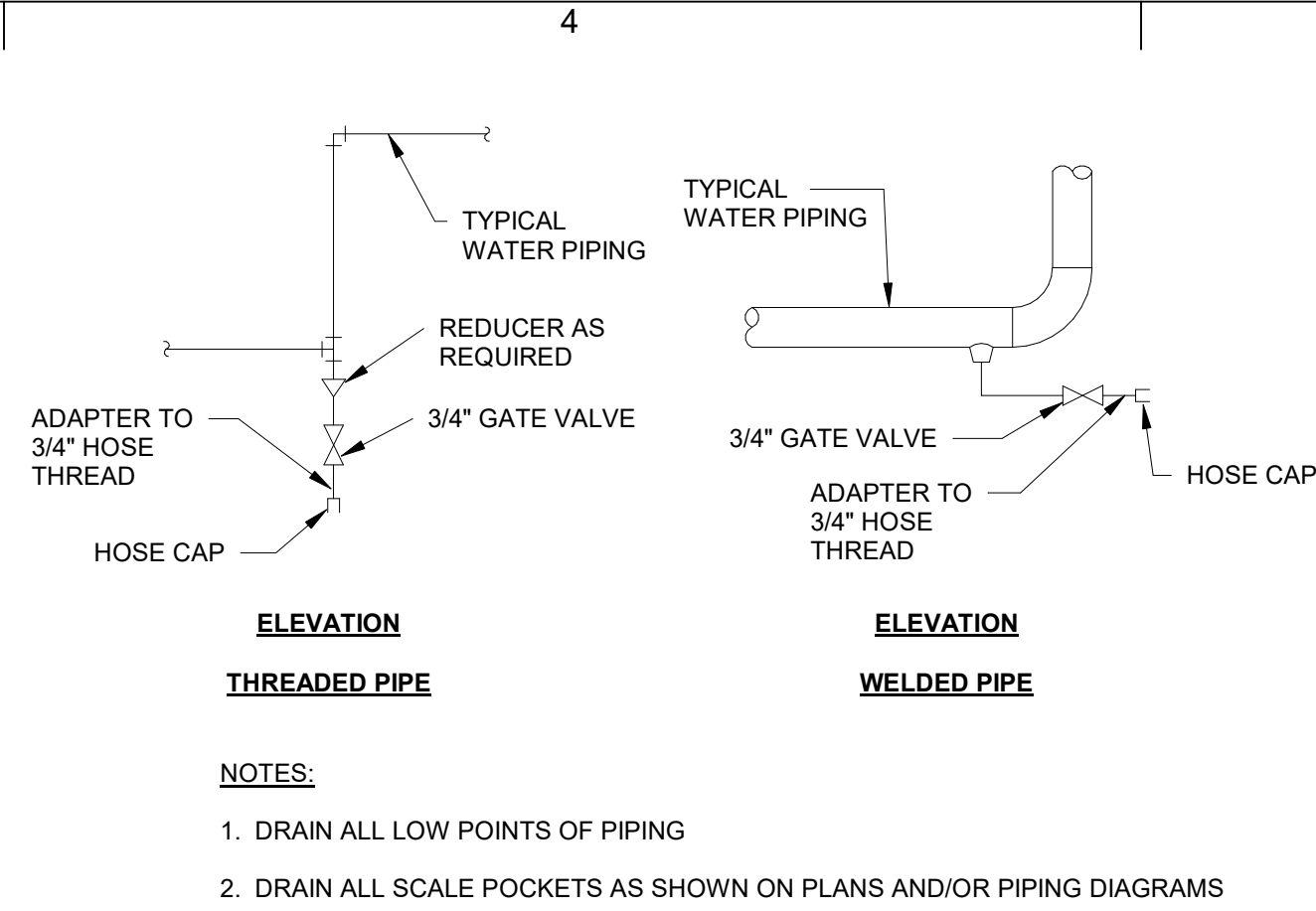
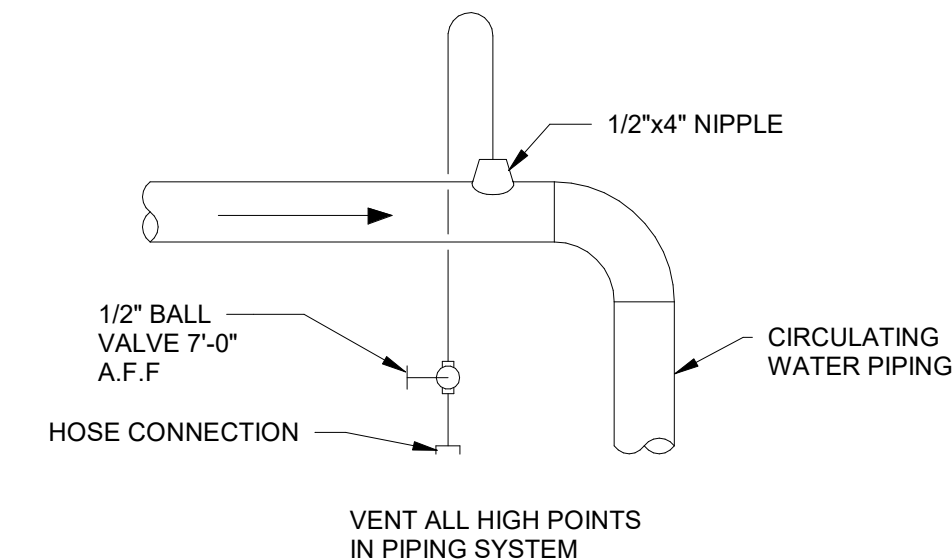
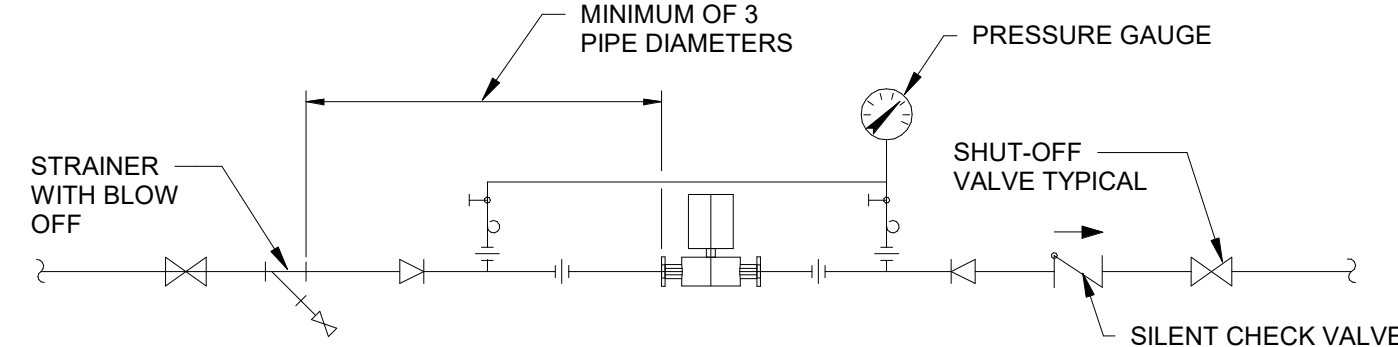
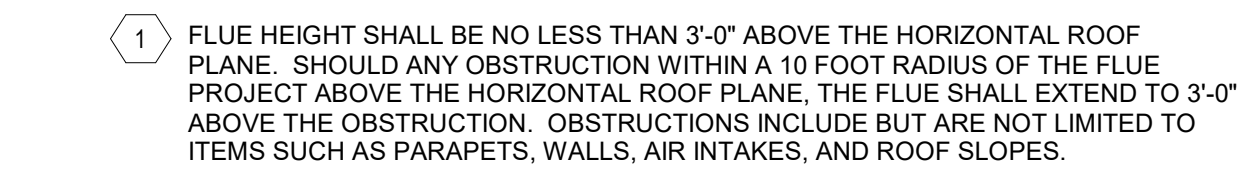
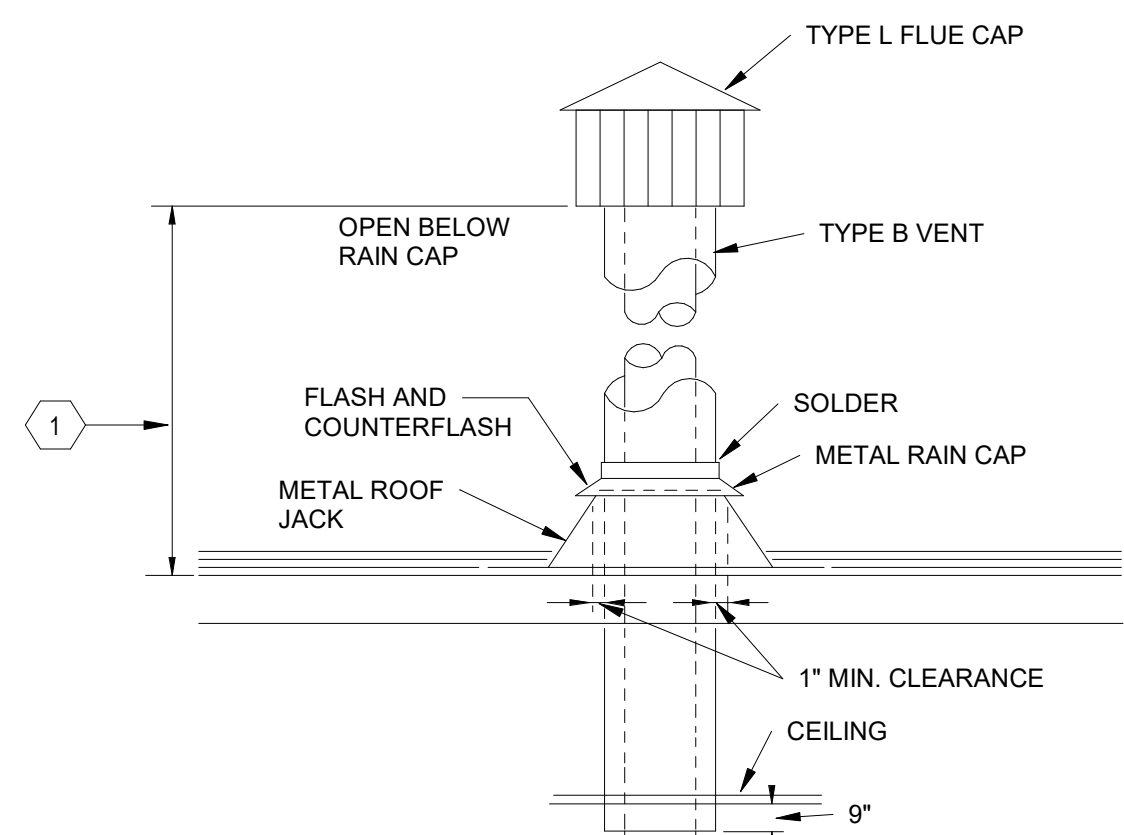
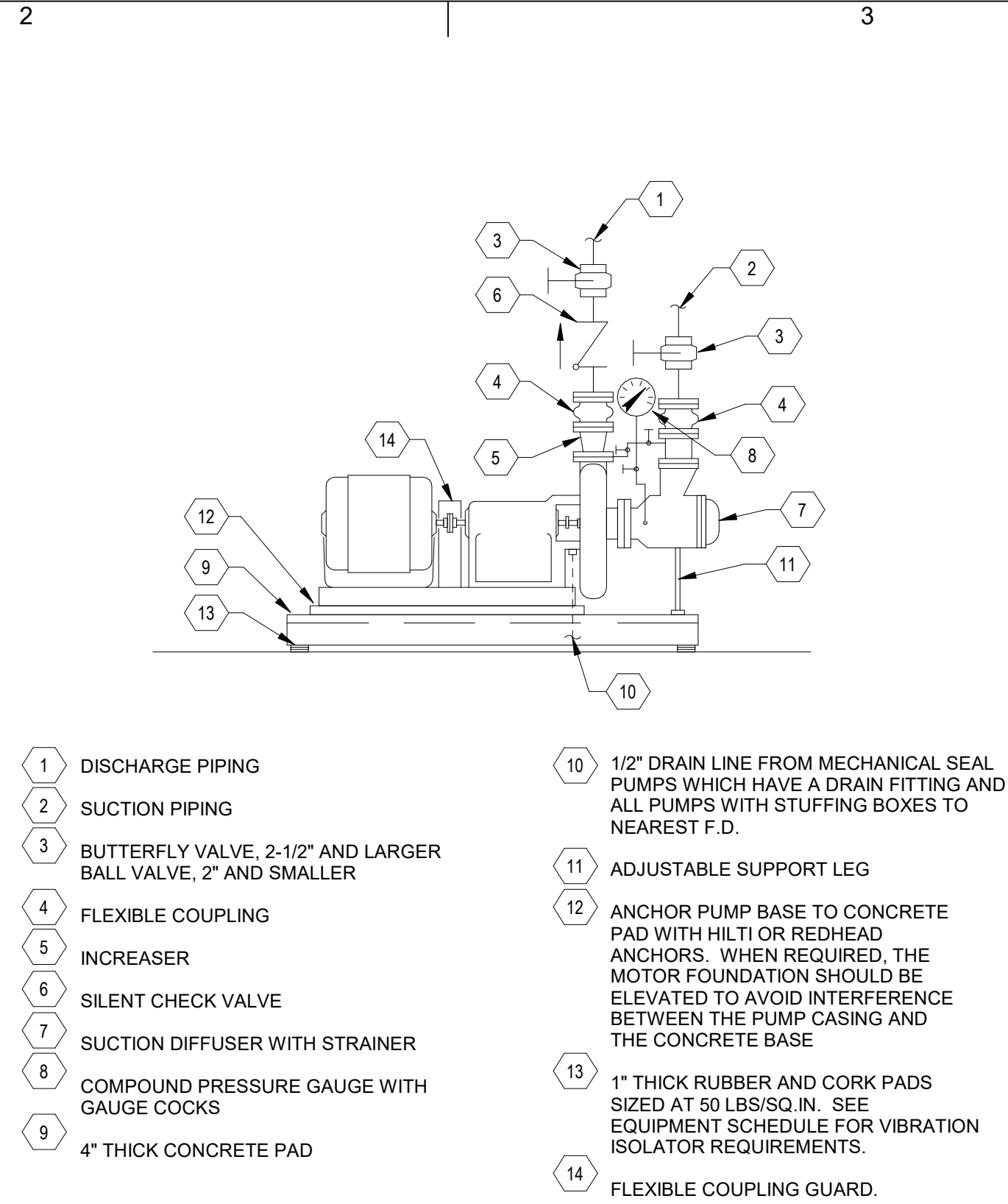
ENLARGED MECHANICAL PLANS

M-402

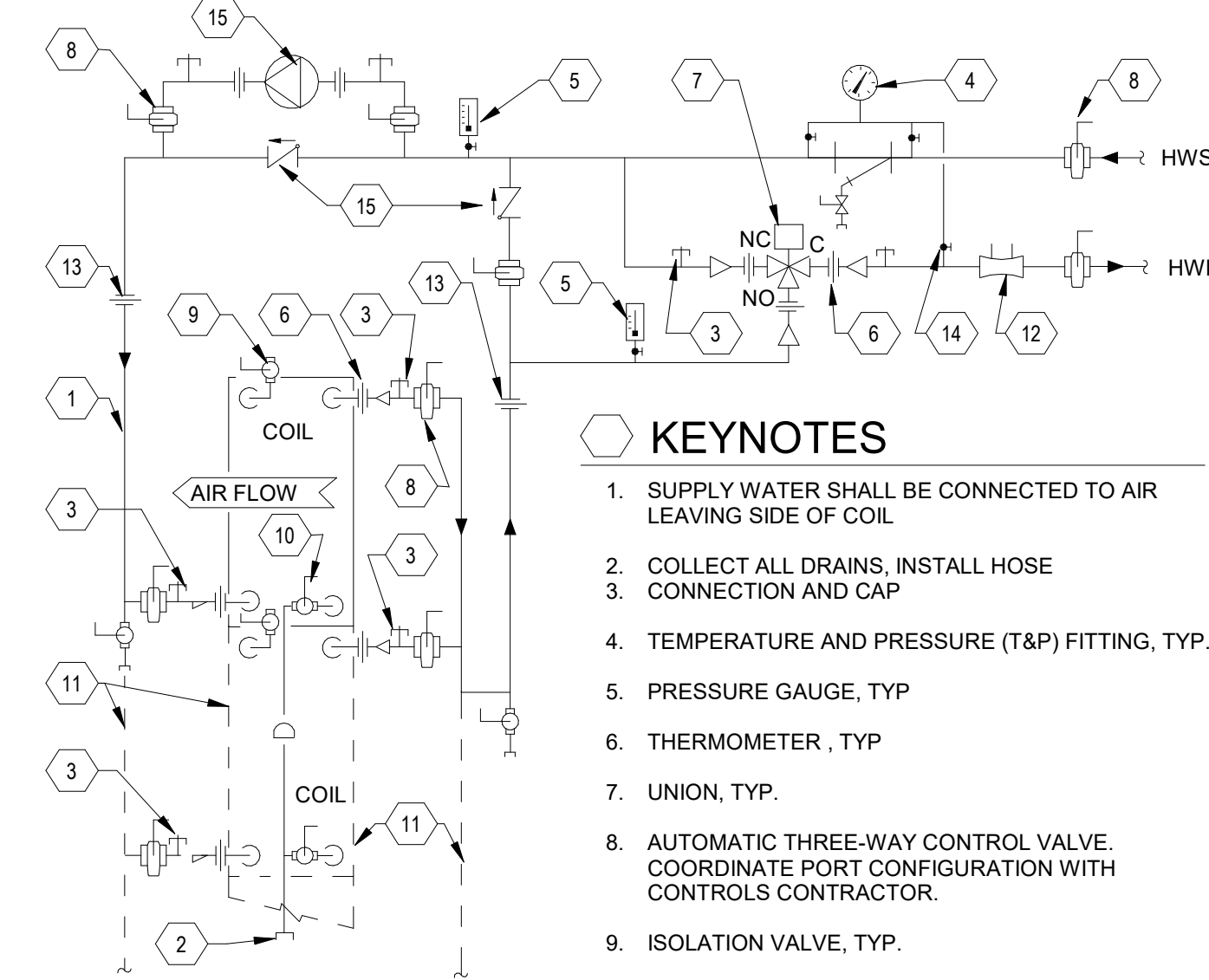




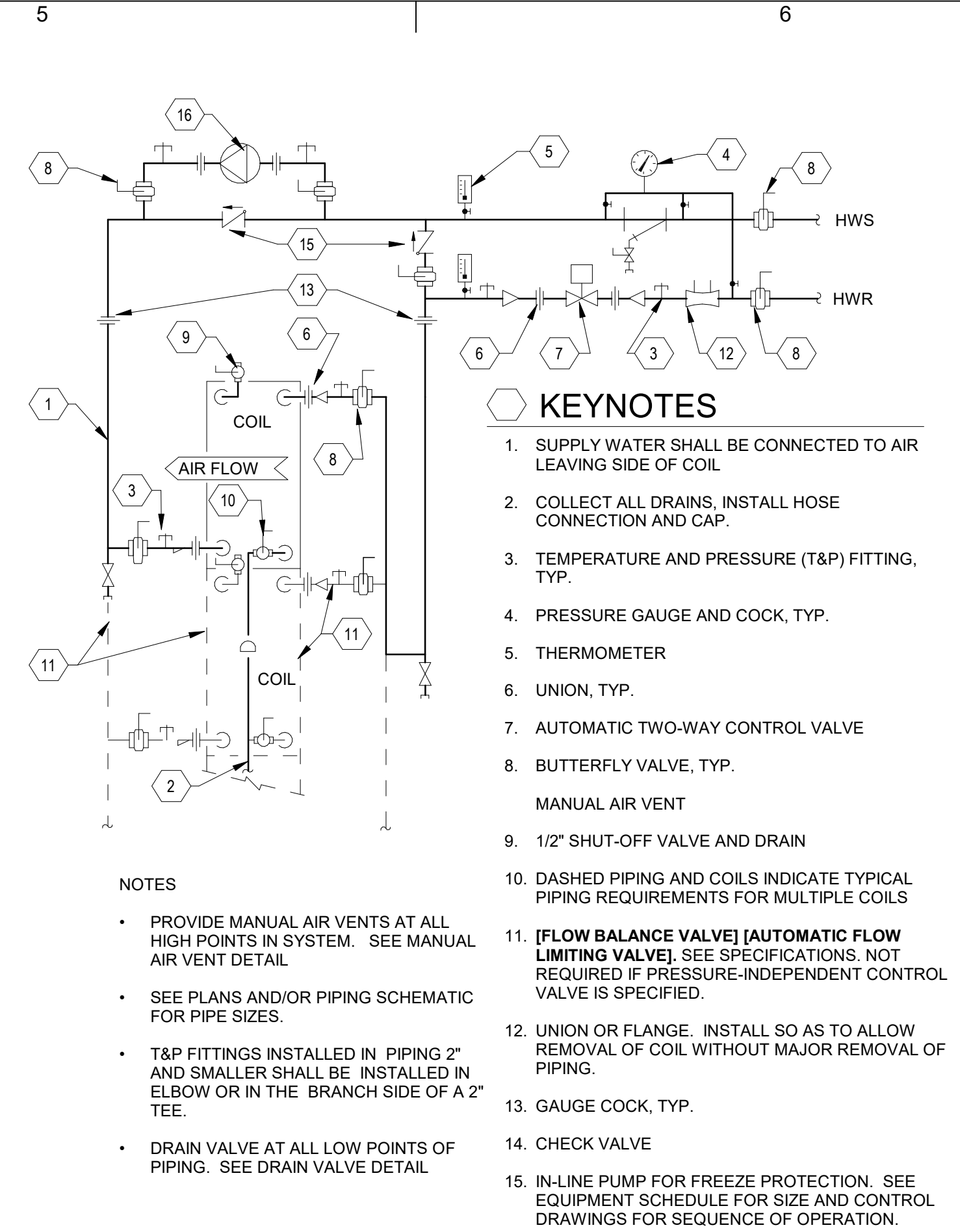
- NOTES:
1. 5 PROVIDE SHEET METAL SLEEVE AROUND PIPE INSULATION AT ALL PIPE HANGERS. SEE SPECS. FOR INSULATION
 2. "U" BOLTS SHALL BE USED AS GUIDES ONLY, NOT ANCHORS.
 3. "U" BOLTS SHALL BE ON EVERY THIRD TRAPEZE (MIN.)
 4. DO NOT TIGHTEN "U" BOLTS ON PIPING OR INSULATION, LEAVE LOOSE AS PIPE GUIDE.



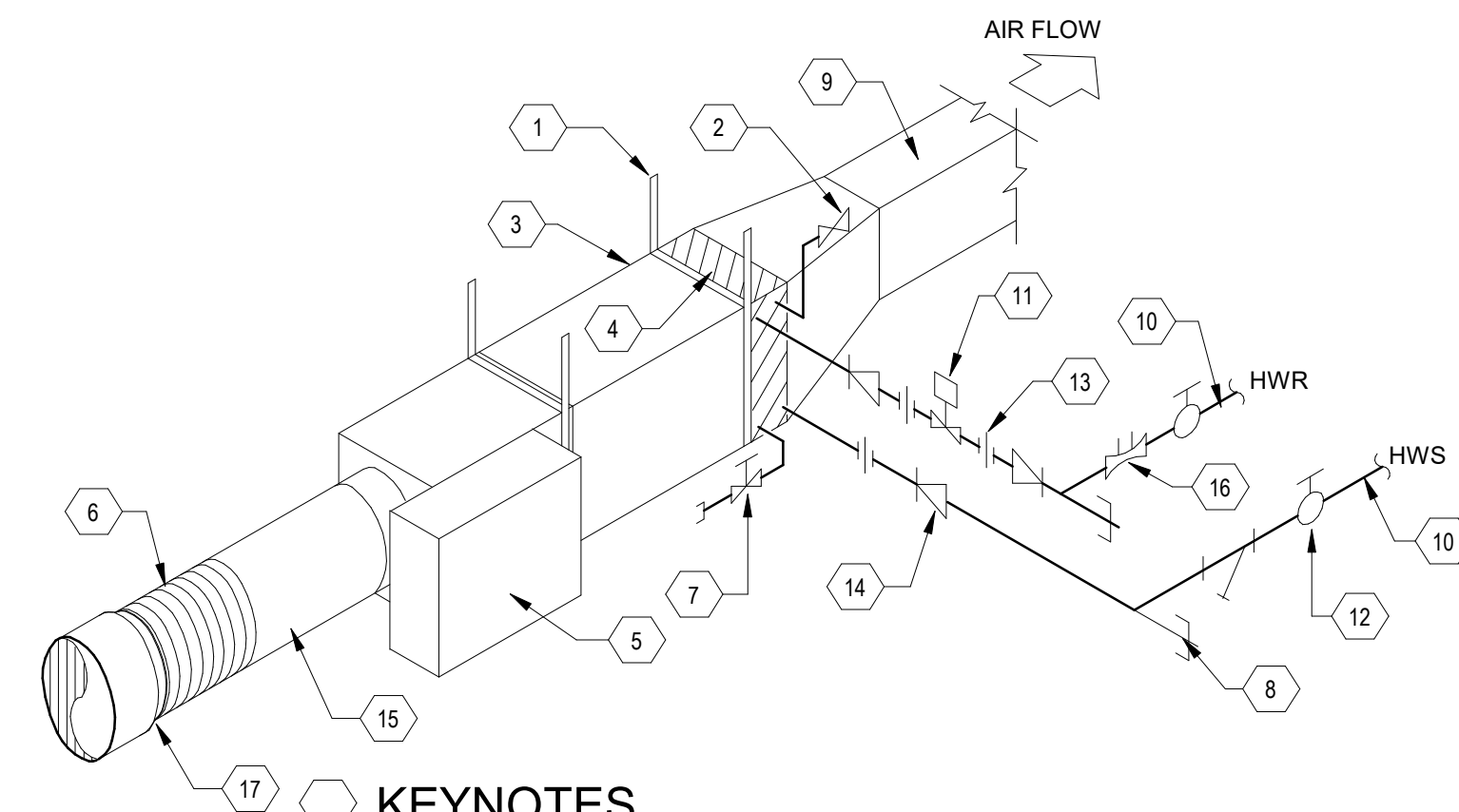
- NOTE:
1. INSTALL TOP OF CHEMICAL POT FEEDER NOT MORE THAN 3'-0" ABOVE FLOOR.
 2. MOUNT FEEDER(S) ON STEEL SUPPORT BRACKET ADJACENT TO PUMP(S).
 3. REFER TO PIPING SCHEMATIC FOR EQUIPMENT NUMBER.



- | | | |
|-------|--|--|
| NOTE: | <p>1. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN SYSTEM. SEE MANUAL AIR VENT DETAIL.</p> <p>2. SEE PLANS AND/OR PIPING SCHEMATIC FOR PIPE SIZES.</p> <p>3. T&P FITTINGS INSTALLED IN PIPING 2" AND SMALLER SHALL BE INSTALLED IN ELBOW OR IN THE BRANCH SIDE OF A 2" TEE.</p> <p>4. DRAIN VALVE AT ALL LOW POINTS OF PIPING. SEE DRAIN VALVE DETAIL.</p> | <p>5. DASHED PIPING AND COILS INDICATE TYPICAL PIPING REQUIREMENTS FOR MULTIPLE COILS.</p> <p>6. [FLOW BALANCE VALVE] [AUTOMATIC FLOW LIMITING VALVE] SEE SPECIFICATIONS.</p> <p>7. UNION OR FLANGE. INSTALL SO AS TO ALLOW REMOVAL OF COIL WITHOUT MAJOR REMOVAL OF PIPING.</p> <p>8. GAUGE COCK, TYP.</p> <p>9. IN-LINE PUMP FOR FREEZE PROTECTION. SEE EQUIPMENT SCHEDULE FOR SIZE AND CONTROL DRAWINGS FOR SEQUENCE OF OPERATION.</p> |
|-------|--|--|



- ### 3 HOT WATER COIL PIPING SCHEMATIC (2-WAY)



1. METAL STRAP SUPPORT FROM STRUCTURE (TYPICAL)
2. MANUAL AIR VENT ON COIL OR HWR PIPING
3. FACTORY FABRICATED SOUND ATTENUATOR
4. HOT WATER COIL
5. CONTROLS ENCLOSURE
6. HIGH VELOCITY FLEXIBLE SUPPLY DUCT 12" MIN., 24" MAX.
7. DRAIN
8. TEMPERATURE-PRESSURE FITTING (TYP.)
9. LOW VELOCITY DUCTWORK TO DISTRIBUTION
10. REFER TO PLANS FOR PIPE SIZES
11. 2-WAY CONTROL VALVE, NORMALLY CLOSED. FAIL TO COOL
12. BALL VALVE (TYP)
13. UNION (TYP)
14. REDUCER (TYP)
15. HIGH VELOCITY RIGID SUPPLY DUCT, 3 FT. MINIMUM STRAIGHT RUN PRIOR TO TERMINAL UNIT CONNECTION. SEE SCHEDULE FOR VALVE AND DUCT SIZES
16. FLOW BALANCING VALVE, OR FLOW LIMITING VALVE, SEE SPECIFICATIONS
17. TRANSITION FROM 2" LARGER DUCT DIAMETER THAN VALVE CONNECTION SIZE



- 12 SCALE = NONE

CONSULTANT

B **BRIDGERS**
& PAXTON

4600 C Montgomery Blvd. NE
Albuquerque, NM 87109 | 505.883.4111 | www.bpce.com

ARCHITECT

Dzilth-Na-O-Dith-Hle - New Dormitory Building

PRICING SET

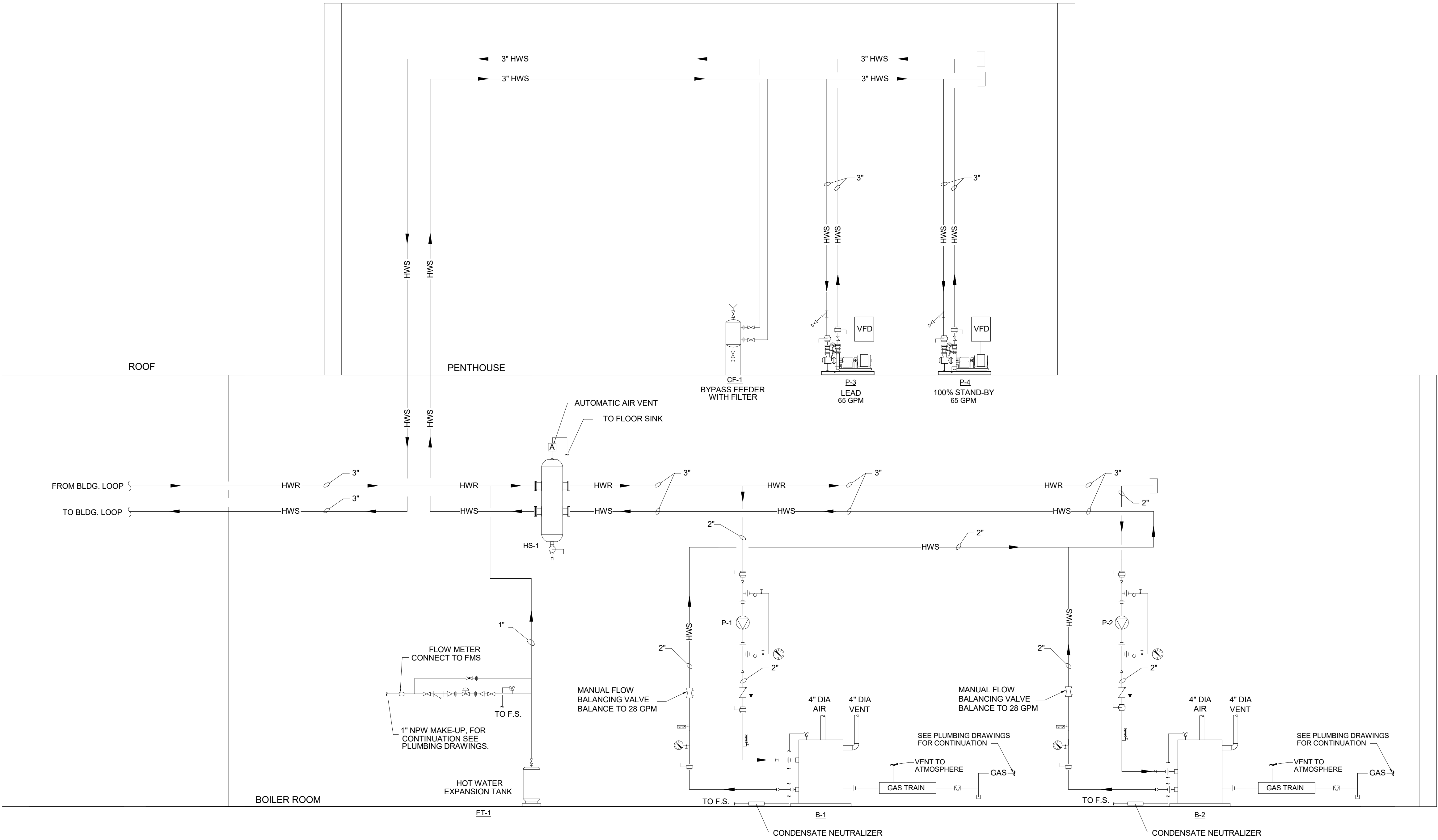
35 Road 7585, Bloomfield, NM
87413

NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
ISSUE:		
DATE:		
PROJECT NO:		751
CAD DWG FILE:		
DRAWN BY:		NZ
CHECKED BY:		IM

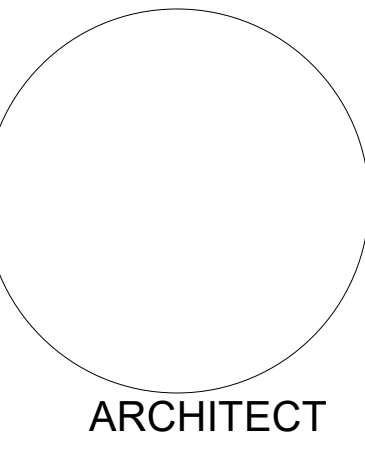
SHEET TITLE
MECHANICAL DETAILS

M-503



1 MECH PIPING DIAGRAM
NO SCALE

CONSULTANT



**Dzilth-Na-O-Dith-Hle -
New Dormitory
Building**

PRICING SET

35 Road 7585, Bloomfield, NM
87413

NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
ISSUE:		
DATE:		
PROJECT NO:		751
CAD DWG FILE:		
DRAWN BY:		NZ
CHECKED BY:		IM

SHEET TITLE
MECHANICAL DIAGRAMS

M-601



1	2	3	4	5	6
---	---	---	---	---	---

FIRST LETTER			SUCCEEDING LETTERS		
	MEASURING OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM		
B	BURNER FLAME		USER CHOICE	USER CHOICE	USER CHOICE
C	CONDUCTIVITY			CONTROL (13)	
D	DENSITY	DIFFERENTIAL			
E	VOLTAGE		SENSOR PRIMARY ELEMENT		
F	FLOW RATE	RATIO FRACTION			
G	GAUGE		GLASS, VIEWING DEVICE		
H	HAND				
I	CURRENT		INDICATE		HIGH
J	POWER	SCAN			
K	TIME	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT		
M	MOTION	MOMENTARY			LOW
N	HUMIDITY		USER DEFINED	USER DEFINED	MIDDLE INTERMEDIATE
O	USER CHOICE		ORIFICE RESTRICTION		USER DEFINED
P	PRESSURE, VACUUM		POINT (TEST) CONNECTION		
Q	QUANTITY	INTEGRATE, TOTALIZE			
R	RADIATION		RECORD		
S	SPEED, FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	VIBRATION, MECHANICAL		MULTI-FUNCTION	MULTI-FUNCTION	MULTI-FUNCTION
V	ANALYSIS			VALVE, DAMPER LOUVER	
W	WEIGHT, FORCE		WELL		
X	UNCLASSIFIED	X-AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT, STATE OR PRESENCE	Y-AXIS		RELAY, COMPUTE CONVERT	
Z	POSITION DIMENSION	Z-AXIS		DRIVER, ACTUATOR UNCLASSIFIED FINAL CONTROL ELEMENT	

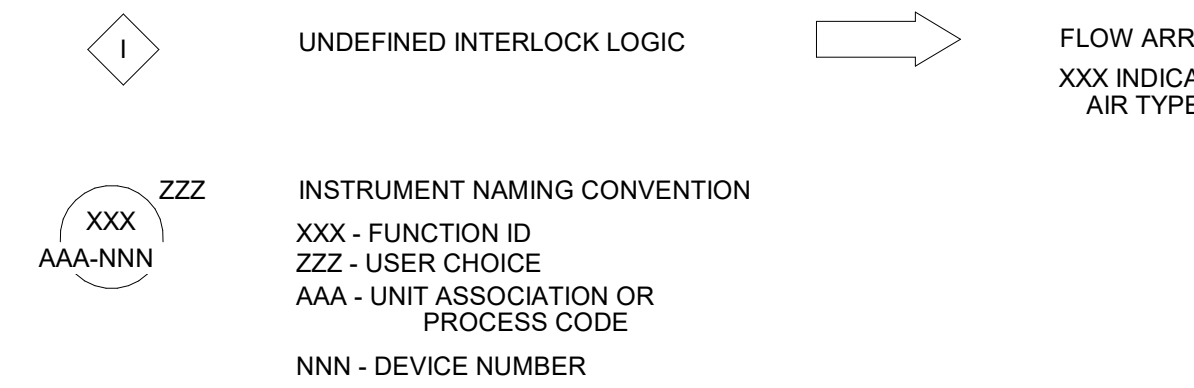
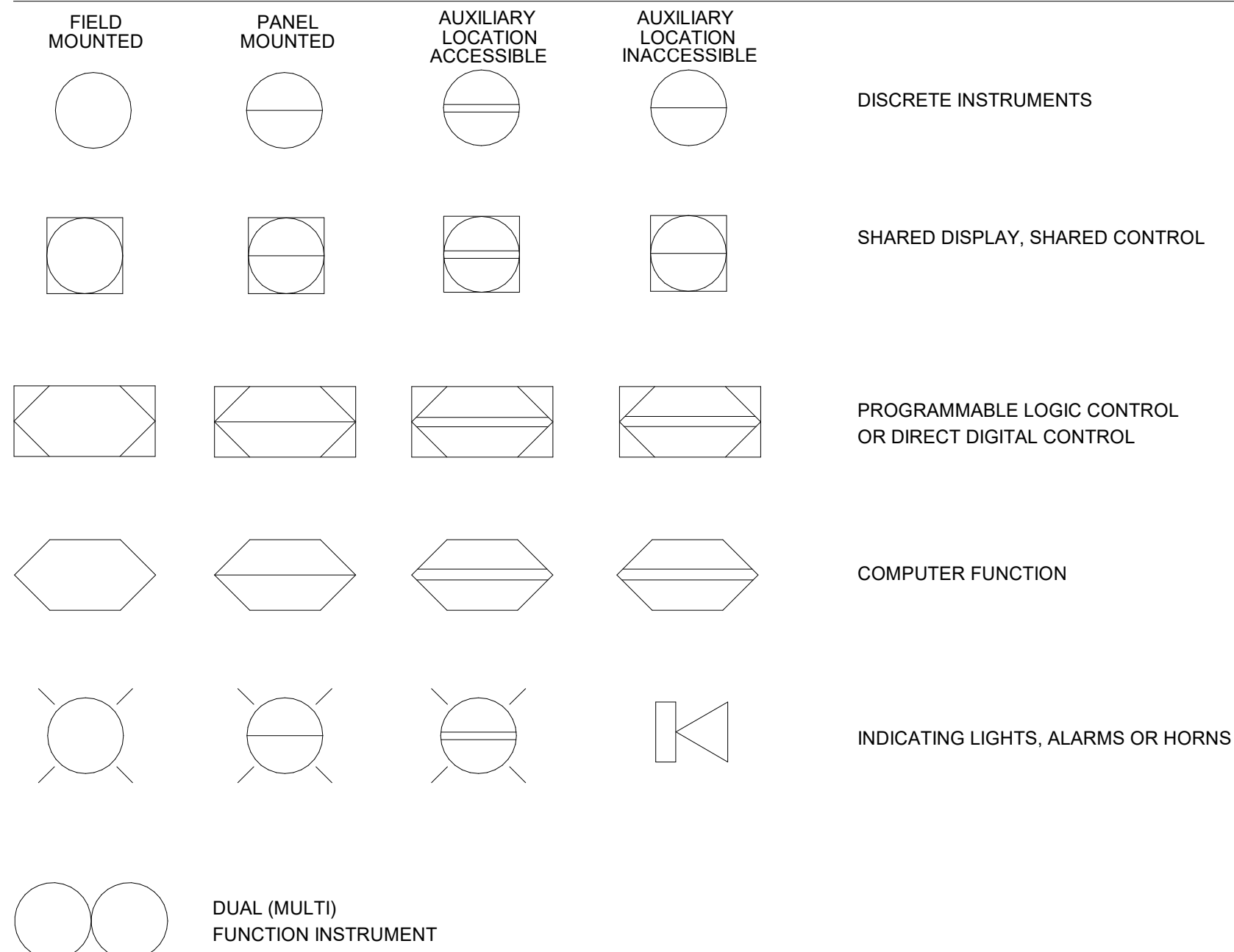
INSTRUMENTATION TYPE ABBREVIATION LIST					
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AA	ANALYTICAL ALARM	LA	LEVEL ALARM	VA	VIBRATION ALARM
AE	ANALYTICAL ELEMENT	LC	LEVEL CONTROLLER (STAND ALONE)	VS	VIBRATION SWITCH
AET	ANALYTICAL ELEMENT TRANSMITTER	LCV	LEVEL CONTROL VALVE		
AI	ANALYTICAL INDICATOR	LE	LEVEL ELEMENT	XV	SOLENOID VALVE
AC	ANALYTICAL CONTROLLER	LIC	LEVEL INDICATING CONTROLLER		
AIC	ANALYTICAL INDICATING CONTROLLER	LIT	LEVEL INDICATING TRANSMITTER	YA	EQUIPMENT ALARM
AT	ANALYTICAL TRANSMITTER	LS	LEVEL SWITCH	YI	EQUIPMENT STATUS
AIT	ANALYTICAL INDICATING CONTROLLER	LT	LEVEL TRANSMITTER	YCD	SMOKE DAMPER
ACV	ANALYTICAL CONTROL VALVE	LY	LEVEL SIGNAL CONVERTER	YS	SMOKE DETECTOR
AY	ANALYTICAL SIGNAL CONVERTER				
		MV	MANUAL HAND VALVE	ZC	POSITION CONTROL
EI	VOLTAGE INDICATOR			ZI	POSITION INDICATOR
EA	VOLTAGE ALARM	NT	HUMIDITY TRANSMITTER	ZS	POSITION SWITCH
ES	VOLTAGE SWITCH (CONTROL RELAY)				
ESL	VOLTAGE SWITCH LOW (24 VAC OR LESS)	PA	PRESSURE ALARM		
ET	VOLTAGE TRANSMITTER	PCV	PRESSURE CONTROL VALVE	VA	VIBRATION ALARM
EY	VOLTAGE SIGNAL CONVERTER	PDI	PRESSURE DIFFERENTIAL INDICATOR	VS	VIBRATION SWITCH
		PDS	PRESSURE DIFFERENTIAL SWITCH		
FA	FLOW ALARM	PDT	PRESSURE DIFFERENTIAL TRANSMITTER		
FCV	FLOW CONTROL VALVE	PI	PRESSURE INDICATOR		
FE	FLOW ELEMENT	PIS	PRESSURE INDICATING SWITCH		
FET	FLOW ELEMENT TRANSMITTER	PIT	PRESSURE INDICATING TRANSMITTER		
FI	FLOW INDICATOR	PS	PRESSURE SWITCH		
FIT	FLOW INDICATING TRANSMITTER	PT	PRESSURE TRANSMITTER		
FS	FLOW SWITCH	PY	PRESSURE SIGNAL CONVERTER		
FT	FLOW TRANSMITTER				
FY	FLOW SIGNAL CONVERTER	SC	SPEED CONTROL		
		SCM	SPEED CONTROL MANUAL		
HK	MANUAL VARIABLE CONTROL				
HS	HAND SWITCH	TA	TEMPERATURE ALARM		
HSI	HAND SWITCH INDICATOR	TC	TEMPERATURE CONTROLLER		
		TCV	TEMPERATURE CONTROL VALVE		
I	CURRENT INDICATOR	TE	TEMPERATURE ELEMENT		
IA	CURRENT ALARM	TET	TEMPERATURE ELEMENT TRANSMITTER		
IS	CURRENT SWITCH	TI	TEMPERATURE INDICATOR		
IT	CURRENT TRANSMITTER	TIT	TEMPERATURE INDICATING TRANSMITTER		
IY	CURRENT SIGNAL CONVERTER	TIC	TEMPERATURE INDICATING CONTROLLER		
		TS	TEMPERATURE SWITCH		
JIT	POWER INDICATING TRANSMITTER	TSL	FREEZE STAT		
JY	POWER SIGNAL CONVERTER	TT	TEMPERATURE TRANSMITTER		
KC	TIME CLOCK				

FMS SYSTEM OPERATING CONSTRAINTS

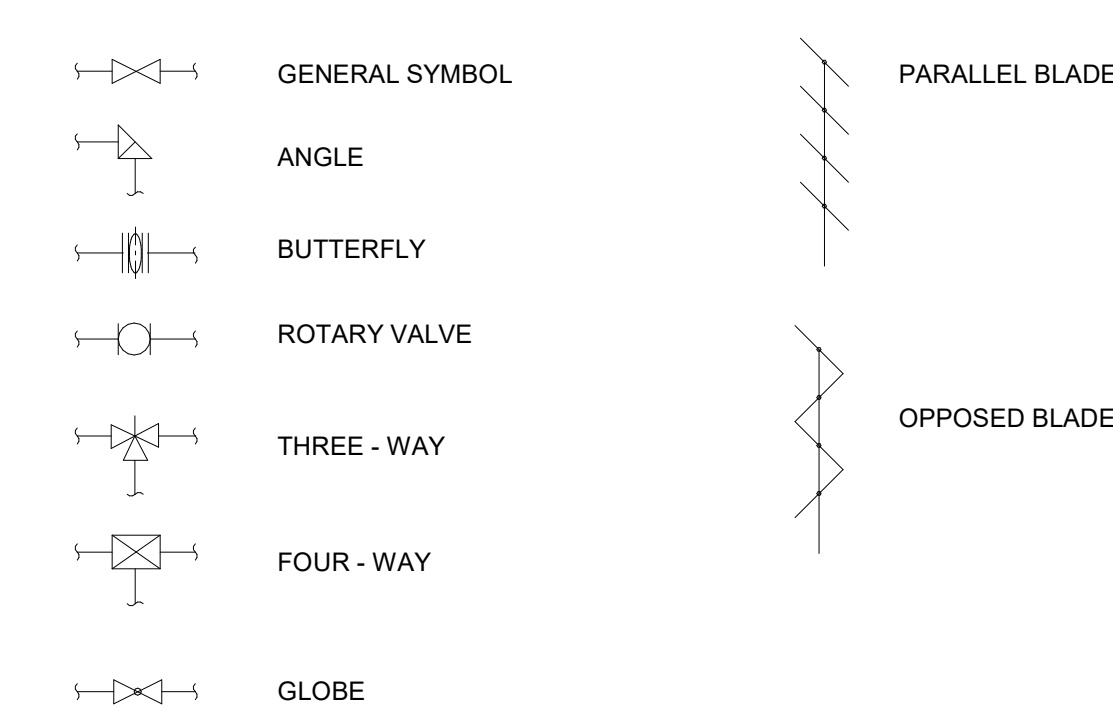
THE FMS CONTROL SYSTEM SHALL OPERATE WITHIN THE FOLLOWING SYSTEM CONSTRAINTS FOR CONTROL:

SUPPLY AIR DRYBULB TEMPERATURE	+/- 0.5°F OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
MIXED AIR DRYBULB TEMPERATURE	+/- 0.5°F OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
WATER TEMPERATURE	+/- 0.5°F OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
DUCT STATIC PRESSURE	+/- 0.1" W.C. OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
DISCHARGE RETURN AIR VOLUME	+/- 2.5% OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
OUTSIDE AIR RELIEF AIR VOLUME	+/- 2.5% OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
BUILDING PRESSURE	+/- 0.01" W.C. OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
ROOM TEMPERATURE	+/- 1.0°F OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
ROOM AIR VOLUME	+/- 2.5% OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
HUMIDITY LEVEL	+/- 2.5% RH OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
WATER TEMPERATURE	+/- 1.0°F OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
WATER DIFFERENTIAL PRESSURE	+/- 0.1 PSI OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL

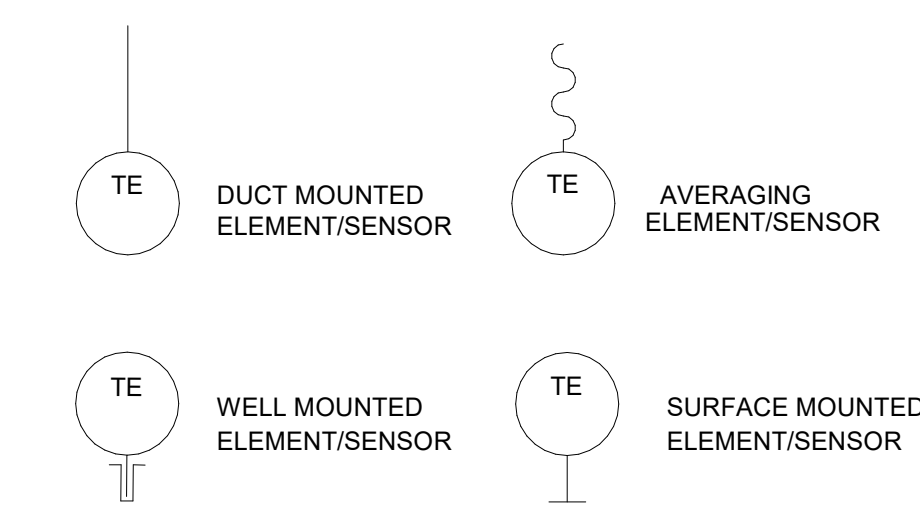
GENERAL INSTRUMENT OR FUNCTION SYMBOLS



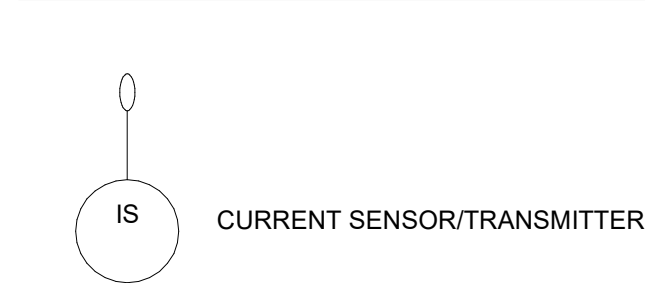
CONTROL VALVE BODY/ DAMPER SYMBOLS



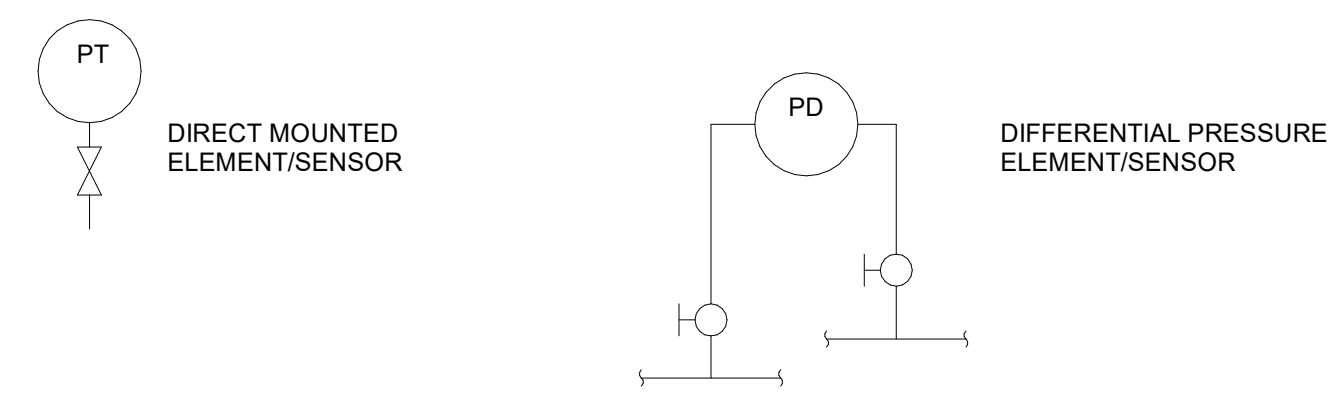
TEMPERATURE



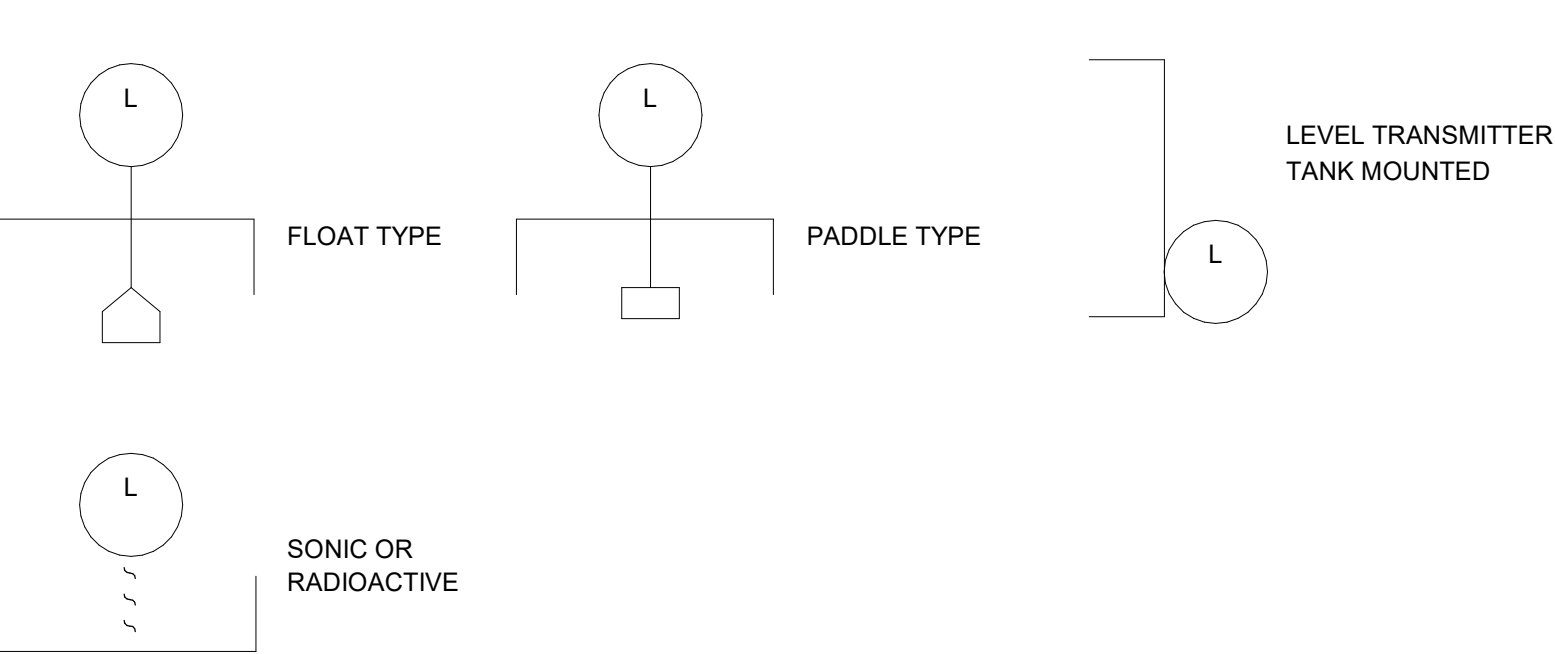
CURRENT



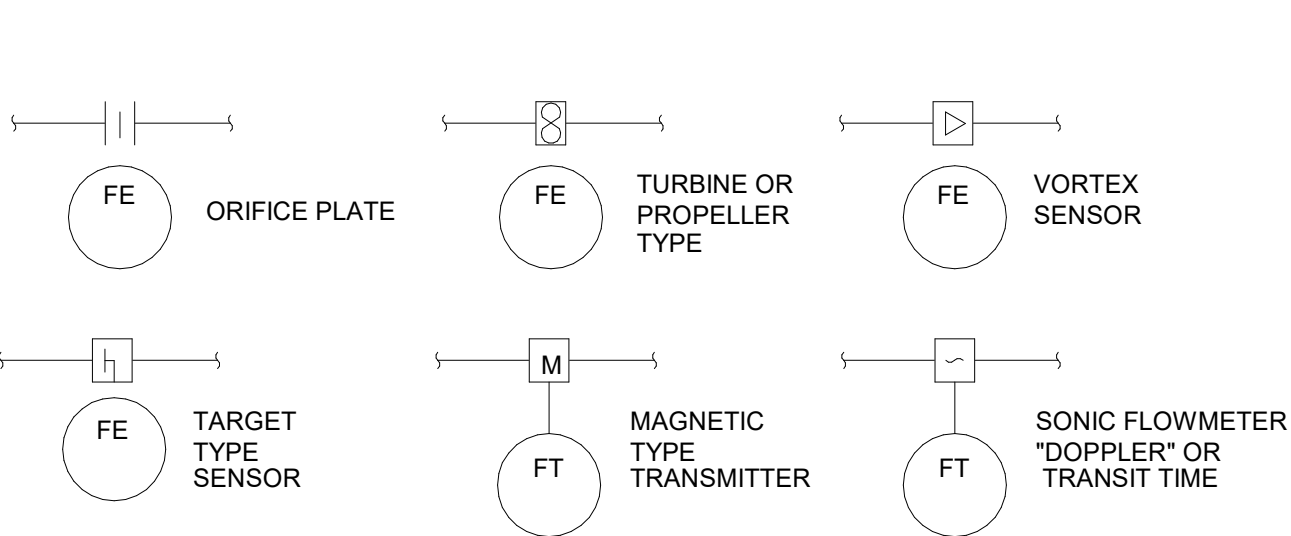
PRESSURE



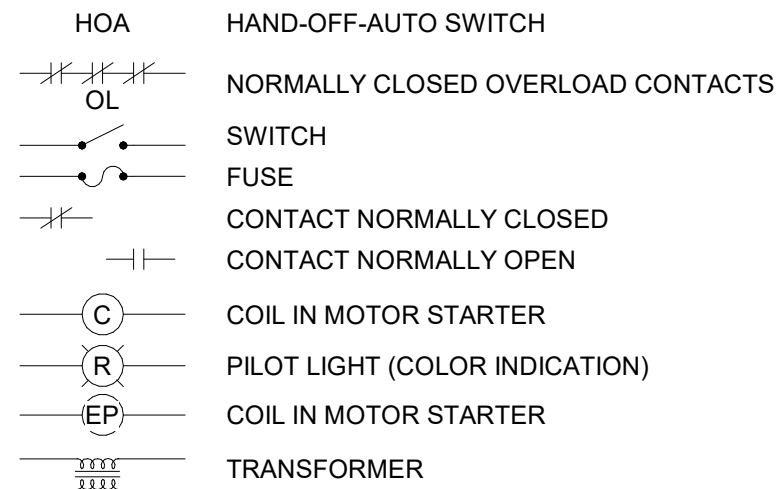
LEVEL



FLOW



LADDER DIAGRAM SYMBOLS



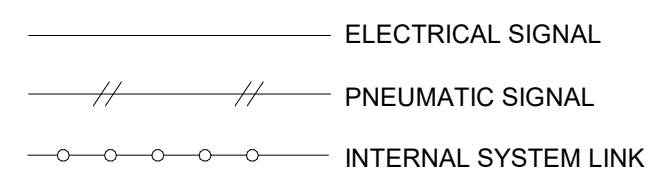
ABBREVIATIONS

IA	INSTRUMENTATION AIR
DDC	DIRECT DIGITAL CONTROL
C	COMMON VALVE PORT
F.O	FAIL OPEN
F.C	FAIL CLOSED
SR	SPRING RANGE
TR	THROTTLING RANGE
PH	PREHEAT
HR	HEAT RECOVERY
CPA	CONTROL POINT ADJUST
SPDT	SINGLE POLE DOUBLE TH
DPDT	DOUBLE THROW DOUBLE
DA	DIRECT ACTING
RA	REVERSE ACTING

PROCESS CODES

TW	COOLING TOWER OR CONDENSER WATER
CHW	CHILLED WATER
SCHW	SECONDARY CHILLED WATER
HW	HOT WATER
SHW	SECONDARY HOT WATER
STM	STEAM

LINE LEGEND



fbt | architects

MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110

PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

ARCHITECT

**Dzilh-Na-O-Dith-Hle -
New Dormitory
Building**

PRICING SET

35 Road 7585, Bloomfield, NM
87413

NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
------	------	-------------

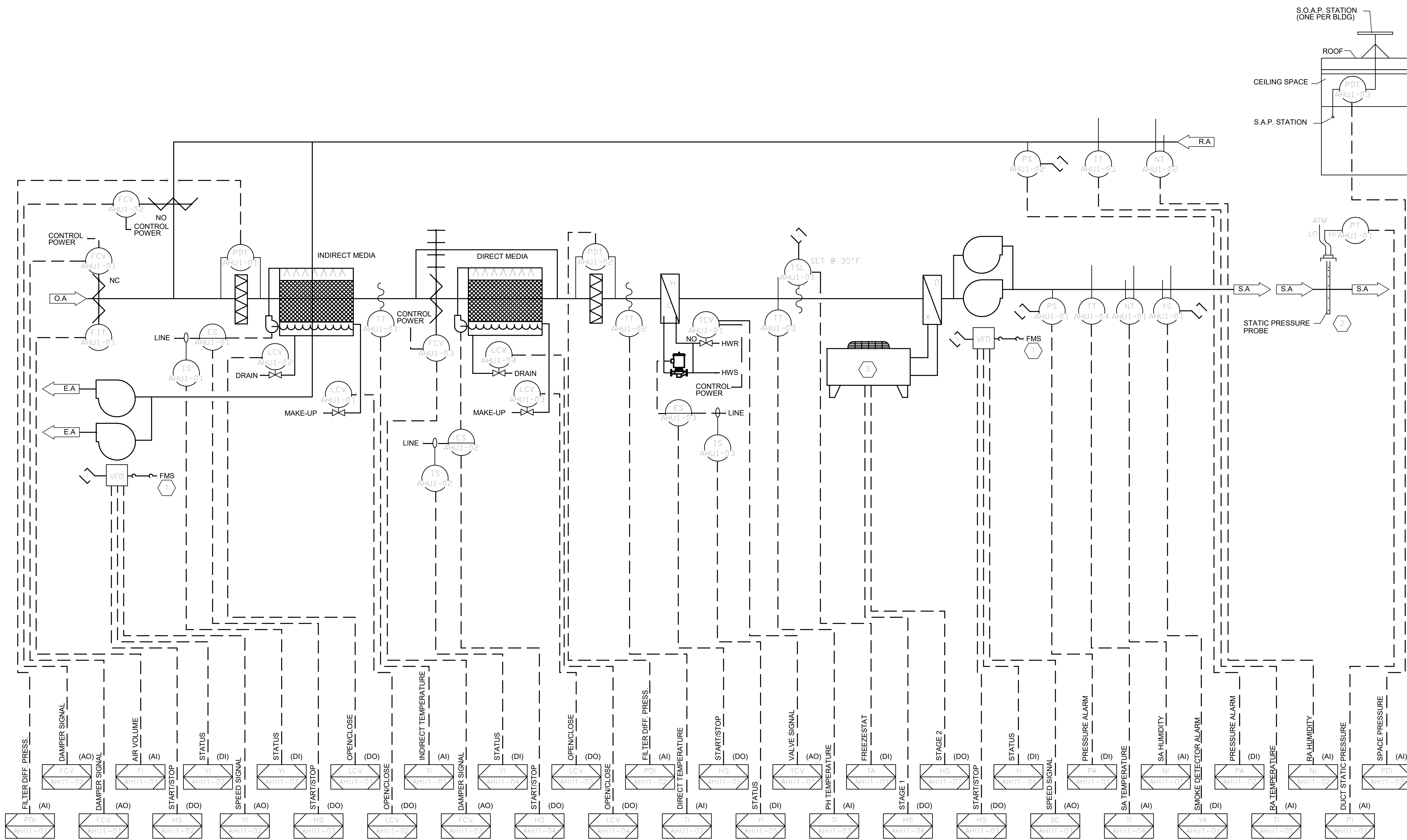
ISSUE:	
DATE:	
PROJECT NO:	751
CAD DWG FILE:	
DRAWN BY:	NZ
CHECKED BY:	IM

SHEET TITLE

MECHANICAL CONTROLS LEGEND

MI001

1	2	3	4	5	6
---	---	---	---	---	---

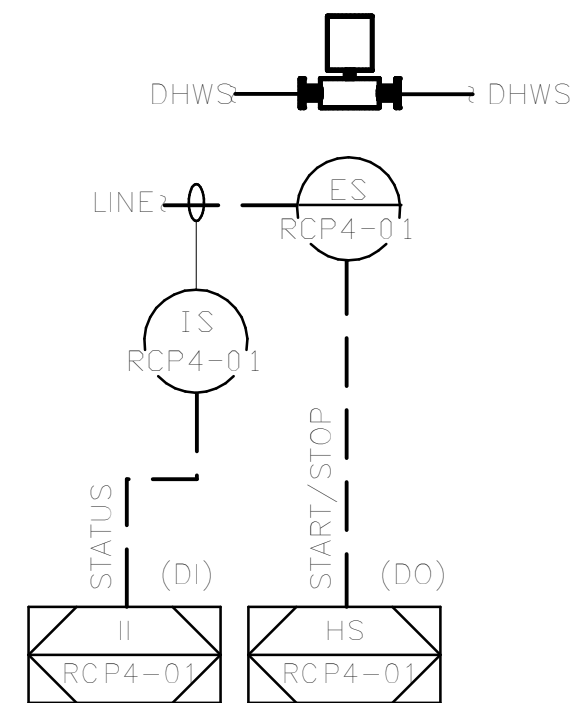


- VFD'S SHALL BE CONNECTED TO THE FMS NETWORK THROUGH A DIRECT NETWORK CONNECTION AS WELL AS THROUGH THE HARDWIRED POINTS INDICATED. IT IS THE RESPONSIBILITY OF THE FMS CONTRACTOR TO COORDINATE AND ADAPT THE FMS NETWORK TO THE COMMUNICATIONS PROTOCOLS AVAILABLE FROM THE VFD MANUFACTURER. THE FOLLOWING POINTS SHALL BE INTEGRATED INTO THE FMS:
- A. SPEED FEEDBACK
 - B. FREQUENCY OUTPUT
 - C. CURRENT
 - D. TORQUE
 - E. POWER
 - F. DC BUS VOLTAGE
 - G. OUTPUT VOLTAGE
 - H. KWH COUNTER
 - I. DRIVE TEMPERATURE
 - J. ALARMS
 - K. STATUSES
- PROVIDE A MINIMUM OF ONE STATIC PRESSURE PROBE PER FLOOR FOR EACH AIR HANDLING UNIT. LOCATE THE STATIC PRESSURE PROBES $\frac{1}{2}$ THE LENGTH OF THE MAIN DUCT RUN.
- PROVIDE FIELD INSTALLATION OF ALL SENSORS, SAFETIES, AND VALVES FURNISHED WITH THE CONDENSING UNIT IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE AN FMS START/STOP POINT FOR EACH COOLING STAGE IN THE CONDENSING UNIT.

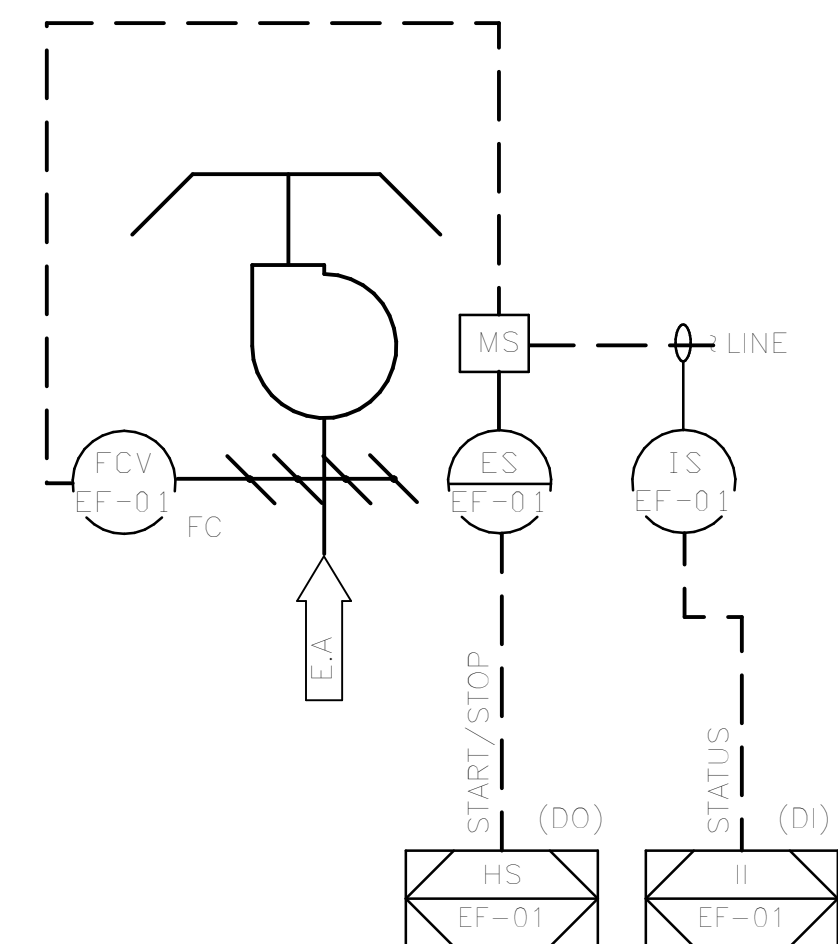
MI601



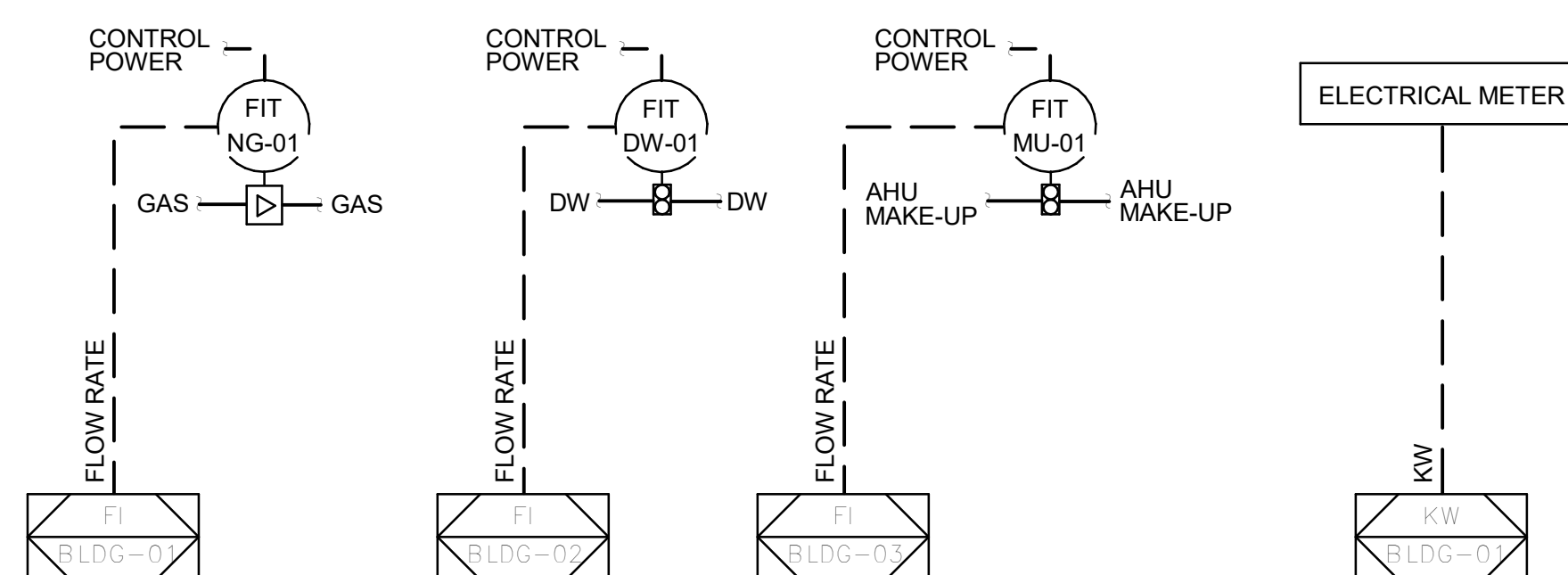
HOT BOX TEMPERATURE CONTROL DIAGRAM



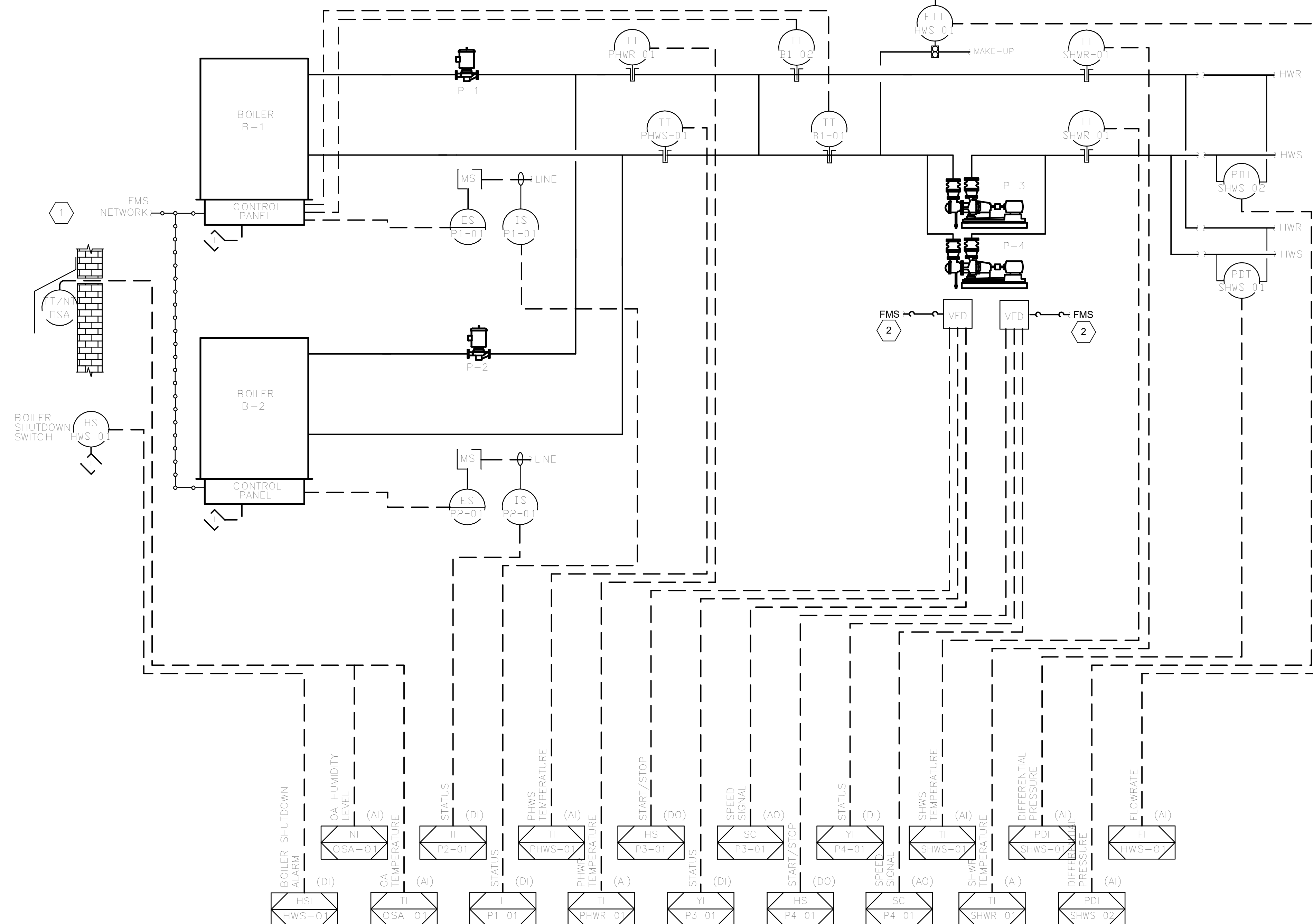
TYPICAL DOMESTIC HW PUMP CONTROL DIAGRAM



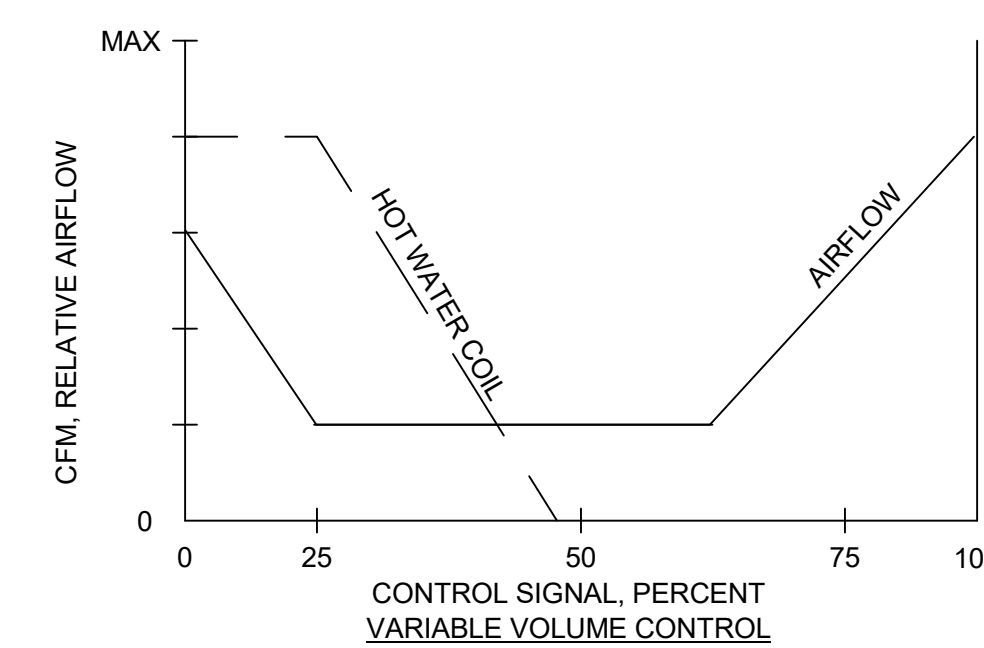
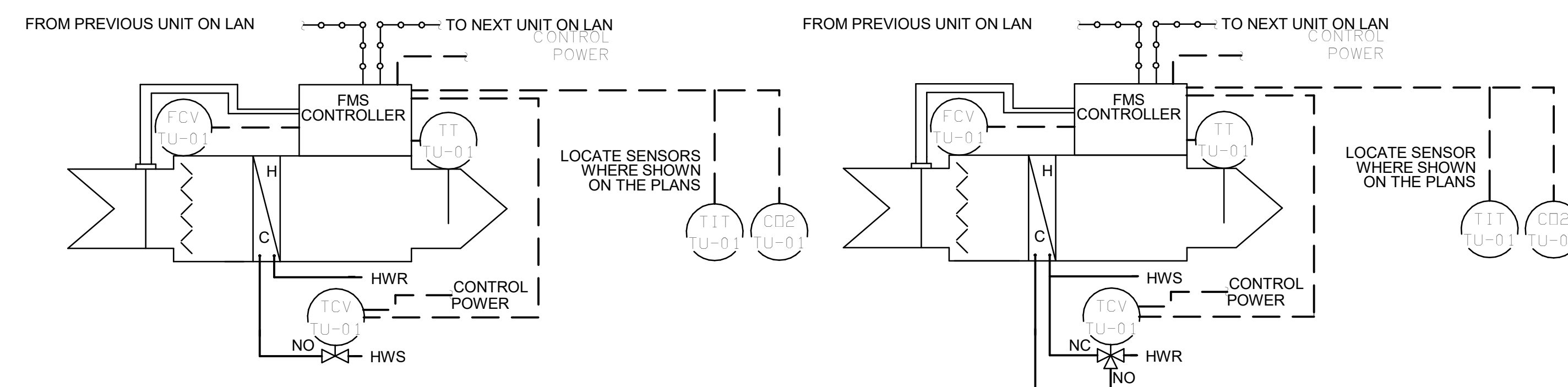
TYPICAL GENERAL EXHAUST FAN CONTROL DIAGRAM



TYPICAL BUILDING METERING CONTROL DIAGRAM

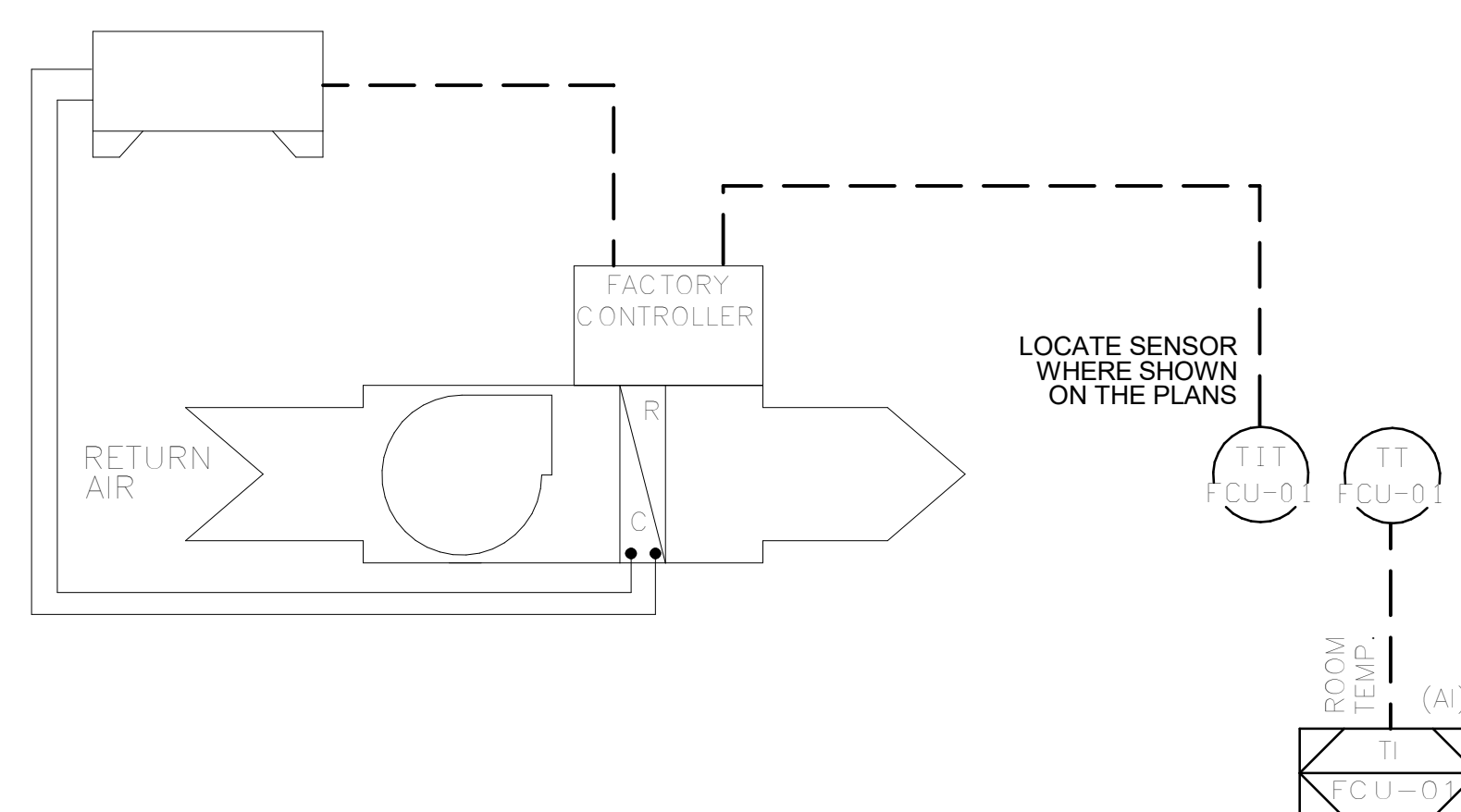


TYPICAL HOT WATER SYSTEM CONTROL DIAGRAM



THE TERMINAL UNIT SHALL PROVIDE THE FLOW CHARISTICS SHOWN ON THE GRAPH. EACH TERMINAL UNIT SHALL BE EQUIPPED WITH ITS OWN STAND ALONE CONTROLLER WHICH SHALL HAVE THE CAPABILITIES DESCRIBED IN THE SPECIFICATION. THE WIRING SHOWN IS PROVIDED AS A GENERAL DESCRIPTION AND IS NOT AS A DETAILED WIRING DIAGRAM WHICH VARIES WITH THE MANUFACTURER.



TYPICAL VAV TERMINAL UNIT WITH HW REHEAT CONTROL DIAGRAM



TYPICAL SPLIT SYSTEM CONTROL DIAGRAM

KEYED NOTES 

1. THE BOILER SYSTEM SHALL BE CONNECTED TO THE FMS NETWORK THROUGH A DIRECT MODBUS OR BACNET NETWORK CONNECTION AS INDICATED. THE FOLLOWING POINTS SHALL BE INTEGRATED INTO AND MONITORED BY THE FMS IF AVAILABLE FROM THE MANUFACTURER:
 - A. SYSTEM ENABLE/DISABLE COMMAND
 - B. OPERATING FIRING RATE
 - C. RUNTIME STATUS
 - D. SYSTEM ALARMS
 - E. PUMP ON/OFF COMMANDED STATUSES
 - F. BOILER OUTLET TEMPERATURE SETPOINT
 - G. BOILER OUTLET TEMPERATURE
 - H. BOILER INLET TEMPERATURE
 - I. SYSTEM HOT WATER SUPPLY SETPOINT COMMAND
 - J. SYSTEM HOT WATER SUPPLY TEMPERATURE
 - K. SYSTEM HOT WATER RETURN TEMPERATURE
2. VFD'S SHALL BE CONNECTED TO THE FMS NETWORK THROUGH A DIRECT NETWORK CONNECTION AS WELL AS THROUGH THE HARDWIRED POINTS INDICATED. IT IS THE RESPONSIBILITY OF THE FMS CONTRACTOR TO COORDINATE AND INTEGRATE THE FMS NETWORK TO THE COMMUNICATIONS PROTOCOLS AVAILABLE FROM THE VFD MANUFACTURER. THE FOLLOWING POINTS SHALL BE INTEGRATED INTO THE FMS:
 - A. SPEED FEEDBACK
 - B. FREQUENCY OUTPUT
 - C. CURRENT
 - D. TORQUE
 - E. POWER
 - F. DC BUS VOLTAGE
 - G. OUTPUT VOLTAGE
 - H. KWH COUNTER
 - I. DRIVE TEMPERATURE
 - J. ALARMS
 - K. STATUSES

fbt architects		
MAIL: 6501 Americas Pkwy NE, Ste. 300 Albuquerque, NM 87110		
PHO: 505.883.5200 FAX: 505.884.5390 WEB: www.fbtarch.com		
CONSULTANT		
<div><p>4600 C Montgomery Blvd. NE Albuquerque, NM 87109 505.883.4111 www.bpcce.com</p></div>		
<div><p>ARCHITECT</p></div>		
<p>Dzilh-Na-O-Dith-Hle - New Dormitory Building</p> <p>PRICING SET</p> <p>35 Road 7585, Bloomfield, NM 87413</p> <p>NOVEMBER 10, 2020</p>		
MARK	DATE	DESCRIPTION
ISSUE:		
DATE:		
PROJECT NO:		
CAD DWG FILE:		
DRAWN BY:		
CHECKED BY:		
SHEET TITLE		
MECHANICAL CONTROLS DIAGRAMS		
MI603		

1			2			3			4			5			6													
INDOOR VAV AIR HANDLING UNIT																												
SYMBOL	MANUFACTURER & MODEL NO.	TYPE	LOCATION	SUPPLY FAN SECTION								EXHAUST FAN SECTION						DIRECT EXPANSION COOLING COIL										
				TOTAL AIRFLOW (CFM)	FAN SIZE AND TYPE	FAN QTY.	PER FAN				MOTOR		TOTAL AIRFLOW (CFM)	FAN SIZE AND TYPE	FAN QTY.	PER FAN		MOTOR		REFR. TYPE	MAX. FACE VEL. (FPM)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EAT (°F)		LAT (°F)	AIR MAX. PD (IN. WC)	
							AIRFLOW (CFM)	EXT. SP. (IN. WC)	BHP	RPM	HP EACH	V/PH/H				AIRFLOW (CFM)	ESP. (IN. WC)	HP EACH	V/PH/HZ					DB/WB	DB/WB			
AHU-1	TRANE - CSAA025UA	PERFORMANCE CLIMATE CHANGER	MECH PENTHOUSE	12,000	DIRECT DRIVE PLENUM	2	6,000	2.5	6.6	2,300	2	7.5	460/3/60	12,000	DIRECT DRIVE PLENUM	2	6,000	0.5	2	5	460/3/60	410A	485	295	295	83.9/56.5	56.4/46.0	0.234

INDOOR VAV AIR HANDLING UNIT - CONTINUED																																			
SYMBOL	MAIN HOT WATER HEATING COIL								INDIRECT/DIRECT EVAPORATIVE COOLING SECTION																				FILTER	MIN OUTSIDE AIR (CFM)	TOTAL OPERATING WEIGHT (LBS.)	OVERALL UNIT DIMENSIONS	NOTE		
	TOTAL CAPACITY (MBH)	MAX. FACE VELOCITY (FPM)	LAT (°F)	GPM	WATER TEMP (°F)		MAX PRESSURE LOSS	INDIRECT										DIRECT																	
					ENT.	LVG.		AIR (IN. WC)	WATER (FT. WC)	AIRFLOW RATE (CFM)	TOTAL CAPACITY (MBH)	EAT DB/WB (°F)	LAT DB/WB (°F)	STATIC PRESSURE DROP (IN H2O)	COOLING EFFICIENCY (%)	QTY	PUMP			AIRFLOW RATE (CFM)	TOTAL CAPACITY (MBH)	EAT DB/WB (°F)	LAT DB/WB (°F)	STATIC PRESSURE DROP (IN H2O)	COOLING EFFICIENCY (%)	COOLING MEDIA	QTY	PUMP							
																	HP	GPM	V/PH/H									HP						GPM	VOLT/PH/H
AHU-1	476	498	60	32	130	100	0.167	1.0	12,000	312.2	94/61	70.2/52.9	0.8	72	1	0.125	16	120/1/60	12,000	200.6	70.2/52.9	55/52.9	0.2	80%	12" CELDEK	1	0.125	16	120/1/60	MERV 13	4,100	11,000	294"(L)X120"(W)X111"(H)	FURNISH WITH NON-FUSED DISCONNECT, UNIT ON 6" CONCRETE HOUSEKEEPING PAD	

INDOOR VAV AIR HANDLING UNIT - SOUND DATA								
SYMBOL	DISCHARGE SOUND POWER BY OCTIVE BAND							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
AHU-1	80	81	85	91	77	79	73	66

CONDENSING UNIT SCHEDULE																												
SYMBOL	TRANE MODEL NO.	LOCATION	CORRESPONDING INDOOR UNIT	TON	NET TOTAL CAPACITY (MBH)	EER @ AHRI	AMBIENT DB (DEG F)	SATURATED SUCTION TEMP	ELECTRICAL DATA					COMPRESSORS					CONDENSERS (MICROCHANNEL)								WEIGHT (LBS.)	LENGTH/ WIDTH/ HEIGHT (IN)
									VOLT	PH	HZ	MCA	MOCPP	COMPRESSOR TYPE	MANIFOLD COMPRESSOR SIZES	UNIT CAPACITY STEPS	REFR. TYPE	LIQUID LINE	SUCTION LINE	FAN QTY.	DIAMATER (IN)	AIR FLOW (CFM)	SIZE (IN)	FACE AREA (SF)	ROWS/FIN PER FT	REFR. STORAGE CAPACITY(LB)		
ACU-1	RAUJC2	ROOF	AHU-1	25.0	307	12.1 (COND ONLY)	100	45 (F)	460	3	60	52	70	SCROLL	13-13.5	100-42	R-410A	7/8"	2-1/8"	3	26	20,700	42X71	41.4	1/240	18.7	2,000	88-1/2"X57-5/8"X74-1/4"
NOTE - FURNISH WITH NON-FUSED DISCONNECT, LOW VOLTAGE MONITOR, FACTORY-INSTALLED DISCHARGE AND LIQUID LINE SERVICE VALVES, STANDARD AMBIENT OPERATING RANGE, HOT GAS BYPASS TO THE EVAPORATOR INLET, SUCTION SERVICE VALVE, PRESSURE GAUGES, RETURN AIR SENSOR, UNIT SPRING ISOLATORS, CORROSION PROTECTED CONDENSER COIL																												

HYDRONIC BOILER SCHEDULE																						
SYMBOL	GENERAL UNIT DATA									CONNECTION DATA				ELECTRICAL DATA				PHYSICAL DATA				NOTE
	MANUFACTURER & MODEL NO.	SERVICE	INPUT AT SEA LEVEL (MBH)	OUTPUT AT SITE (MBH)	EFF	LWT (°F)	FLOW (GPM)	TURN DOWN	HEX WATER VOLUME	NATURAL GAS CONN SIZE (IN)	GAS PRESSURE (IN. W.G.)	VENT SIZE (IN)	COMBUSTION AIR SIZE (IN)	VOLT	PHASE	HZ	AMP DRAW	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	OPERATING WEIGHT (LBS)	
B-1	LOCHINVAR - FTXL 600 (N)	HOT WATER SYS	600	552	92%	130	28	7:1	12 GAL	1"	4" TO 14"	4"	4"	120	1	60	12	26-1/8"	22-5/8"	53-5/8"	560	HEATING SYS BOILER MOUNTED ON 4" CONCRETE HOUSEKEEPING PAD
B-2	LOCHINVAR - FTXL 600 (N)	HOT WATER SYS	600	552	92%	130	28	7:1	12 GAL	1"	4" TO 14"	4"	4"	120	1	60	12	26-1/8"	22-5/8"	53-5/8"	560	HEATING SYS BOILER MOUNTED ON 4" CONCRETE HOUSEKEEPING PAD

PUMPS													
SYMBOL	BELL & GOSSETT MODEL NO.	LOCATION	SERVICE	TYPE	CAPACITY (GPM)	TOTAL HEAD (FT. WG)	PUMP RPM	MOTOR HP	ELECTRICAL DATA			OPERATING WEIGHT (LBS.)	NOTES
									VOLT	PHASE	HZ		
P-1	BG-E60-1X1X5.25	BOILER ROOM	PRIMARY PUMP	INLINE	28	15	1,800	1/3	115	1	60	55	-
P-2	BG-E60-1X1X5.25	BOILER ROOM	PRIMARY PUMP	INLINE	28	15	1,800	1/3	115	1	60	55	-
P-3	BG-E1531-1.25BC	MECH PENTHOUSE	SECONDARY PUMP	BASE MOUNTED CLOSE COUPLED	65	55	1,800	2.0	460	3	60	130	FURNISH WITH SUCTION DIFFUSER AND RATED MOTOR, ONE PUMP IS BACK UP
P-4	BG-E1531-1.25BC	MECH PENTHOUSE	SECONDARY PUMP	BASE MOUNTED CLOSE COUPLED	65	55	1,800	2.0	460	3	60	130	FURNISH WITH SUCTION DIFFUSER AND RATED MOTOR, ONE PUMP IS BACK UP
P-5	BG-E60-1.25X1.25X5.25	MECH PENTHOUSE	AHU-1 HW COIL	INLINE	32	20	1,800	1/2	115	1	60	60	-

VARIABLE FREQUENCY DRIVES									
SYMBOL	MANUFACTURER & MODEL NO.	LOCATION	SERVICE	ELECTRICAL					NOTES
				VOLT	PHASE	HZ	MOTOR HP	MAX AMP	
VFD-1	ABB - ACH550-04A1-4	BOILER ROOM	HOT WATER PUMPS	460	3	60	2.0	4.1	FURNISH WITH BYPASS AND FUSED DISCONNECT
VFD-2	ABB - ACH550-04A1-4	BOILER ROOM	HOT WATER PUMPS	460	3	60	2.0	4.1	FURNISH WITH BYPASS AND FUSED DISCONNECT
VFD-3	ABB - ACH550-012A-4	MECH PENTHOUSE	AHU-1 SA FAN	460	3	60	7.5	11.9	FURNISH WITH BYPASS AND FUSED DISCONNECT
VFD-4	ABB - ACH550-012A-4	MECH PENTHOUSE	AHU-1 SA FAN	460	3	60	7.5	11.9	FURNISH WITH BYPASS AND FUSED DISCONNECT
VFD-5	ABB - ACH550-08A8-4	MECH PENTHOUSE	AHU-1 EX FAN	460	3	60	5.0	8.8	FURNISH WITH BYPASS AND FUSED DISCONNECT
VFD-6	ABB - ACH550-08A8-4	MECH PENTHOUSE	AHU-1 EX FAN	460	3	60	5.0	8.8	FURNISH WITH BYPASS AND FUSED DISCONNECT

ELECTRIC UNIT HEATER														
SYMBOL	MANUFACTURER & MODEL NO.	LOCATION	AIRFLOW (CFM)	CONTROL VOLTAGE	HEATING (KW)	ELECTRICAL DATA						WEIGHT (LBS.)	NOTES	
						MINIMUM FUSE SIZE	MAXIMUM AMP RATING	VOLT	PHASE	HZ	MOTOR HP			MOTOR RPM
EUH-1	TRANE UHEC-072AACA	BOILER ROOM	700	24	7.5	50	36.1	208	1	60	1/50	1550	50	ELEC DISCONNECT, INSTALL WITH WALL MOUNTED BRACKET, TRANSFORMER – 24V CONTROL CIRCUIT
EUH-2	TRANE UHEC-072AACA	MECH PENTHOUSE	700	24	7.5	50	36.1	208	1	60	1/50	1550	50	ELEC DISCONNECT, INSTALL WITH WALL MOUNTED BRACKET, TRANSFORMER – 24V CONTROL CIRCUIT

SINGLE DUCT TERMINAL UNIT SCHEDULE (HW HEAT)																	
GENERAL UNIT DATA				AIRFLOW DATA											PIPE SIZE (IN DIA)	CONTROL VALVE	NOTE
SYMBOL	MANUFACTURER	MODEL NO.	INLET CONNECTION SIZE (IN)	COOLING MAX. (CFM)	COOLING MIN. (CFM)	HEATING MEX. (CFM)	EAT (°F)	LAT (°F)	FLOW RATE (GPM)	EWT (°F)	LWT (°F)	CAPACITY (MBH)	NO. OF ROWS	WATER PRESSURE DROP (FT. HD.)			
TU-1-1	PRICE	SDVQ3-6	6	460	140	276	55	90	0.9	130	110	8665	2	10	3/4"	3-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER
TU-1-2	PRICE	SDVQ3-8	8	630	190	378	55	90	1.2	130	110	11620	2	10	3/4"	3-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER
TU-1-3	PRICE	SDVQ3-6	6	400	120	240	55	90	0.8	130	110	7487	2	10	3/4"	2-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER
TU-1-4	PRICE	SDVQ3-8	8	630	190	378	55	90	1.2	130	110	11620	2	10	3/4"	2-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER
TU-1-5	PRICE	SDVQ3-6	6	260	80	156	55	90	0.5	130	110	4872	2	10	3/4"	2-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER
TU-1-6	PRICE	SDVQ3-8	8	630	190	378	55	90	1.2	130	110	11620	2	10	3/4"	2-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER
TU-1-7	PRICE	SDVQ3-8	8	715	215	429	55	90	1.3	130	110	13197	2	10	3/4"	2-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER
TU-1-8	PRICE	SDVQ3-10	10	1070	400	700	55	90	2.2	130	110	21796	2	10	3/4"	2-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER
TU-1-9	PRICE	SDVQ3-8	8	760	230	456	55	90	1.4	130	110	14056	2	10	3/4"	3-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER
TU-1-10	PRICE	SDVQ3-10	10	1345	400	807	55	90	2.5	130	110	24717	2	10	3/4"	2-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER
TU-1-11	PRICE	SDVQ3-8	8	550	165	330	55	90	1	130	110	10082	2	10	3/4"	2-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER
TU-1-12	PRICE	SDVQ3-8	8	800	240	500	55	90	1.5	130	110	14874	2	10	3/4"	2-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER
TU-1-13	PRICE	SDVQ3-10	10	980	295	588	55	90	1.9	130	110	18309	2	10	3/4"	2-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER
TU-1-14	PRICE	SDVQ3-6	6	120	40	72	55	90	0.2	130	110	2256	2	10	3/4"	2-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER
TU-1-15	PRICE	SDVQ3-8	8	800	240	480	55	90	1.5	130	110	14874	2	10	3/4"	2-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER
TU-1-16	PRICE	SDVQ3-16	16	2670	900	1602	55	90	5.1	130	110	50275	2	10	1"	2-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER
TU-1-17	PRICE	SDVQ3-6	6	500	150	300	55	90	0.9	130	110	9184	2	10	3/4"	2-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER
TU-1-18	PRICE	SDVQ3-8	8	580	175	348	55	90	1.1	130	110	10821	2	10	3/4"	2-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER
TU-1-19	PRICE	SDVQ3-6	6	460	140	276	55	90	0.9	130	110	8665	2	10	3/4"	2-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER
TU-1-20	PRICE	SDVQ3-8	8	675	200	405	55	90	1.3	130	110	12378	2	10	3/4"	2-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER
TU-1-21	PRICE	SDVQ3-8	8	610	180	366	55	90	1.2	130	110	11461	2	10	3/4"	2-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER
TU-1-22	PRICE	SDVQ3-8	8	730	220	438	55	90	1.4	130	110	13617	2	10	3/4"	3-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER
TU-1-23	PRICE	SDVQ3-8	8	620	185	372	55	90	1.2	130	110	11540	2	10	3/4"	3-WAY	PROVIDE 120/24 VOLT (50VA) TRANSFORMER

LOUVERED PENTHOUSE VENTILATOR							
SYMBOL	MANUFACTURER & MODEL NO.	LOCATION	AIRFLOW (CFM)	DIMENSIONS (INCH)	FACE AREA	FREE AREA	PRESSURE DROP (IN. WC)
LV-1	RUSKIN - ELF6350DMP	MECH PENTHOUSE	12,000	96X36	24 SF	61%	0.09
LV-2	RUSKIN - ELF811DD	MECH PENTHOUSE	12,000	86X42	25.08	57%	0.1

EXHAUST FANS															
SYMBOL	GREENHECK MODEL NO.	AREA SERVED	TYPE	CFM	S.P. (IN. WC)	FAN RPM	BHP	MOTOR DATA					DAMPER	OPERATING WEIGHT (LBS.)	NOTES
								HP	VOLT	PHASE	HZ	FLA			
EF-1	GREENHECK - GB-131-4	ISOLATION 220, 221, LINEN CLOSET 105A, JAN 219, HONORS RR 223A, BOY'S RR 218	CENTRIFUGAL ROOF EXHAUST FAN	1,290	0.5	1,239	0.21	1/4	115	1	60	5.8	BACKDRAFT	60	ELEC DISCONNECT, 14" ROOF CURB
EF-2	GREENHECK - GB-091-4	RR 109, RR 120, STR-120-1	CENTRIFUGAL ROOF EXHAUST FAN	560	0.5	1,300	0.11	1/4	115	1	60	5.8	BACKDRAFT	60	ELEC DISCONNECT, 14" ROOF CURB
EF-3	GREENHECK - GB-091-4	W RR 121, G RR 114, JAN 111	CENTRIFUGAL ROOF EXHAUST FAN	550	0.5	1,293	0.11	1/4	115	1	60	5.8	BACKDRAFT	60	ELEC DISCONNECT, 14" ROOF CURB
EF-4	GREENHECK - GB-131-4	G RR 204, JAN 206, ISOLATION 207, HONORS RR 208A, STR 112, ISOLATION RR 207A	CENTRIFUGAL ROOF EXHAUST FAN	1,280	0.5	1,234	0.21	1/4	115	1	60	5.8	BACKDRAFT	60	ELEC DISCONNECT, 14" ROOF CURB
EF-5	GREENHECK - GB-101-4	LAUNDRY 105, 107	CENTRIFUGAL ROOF EXHAUST FAN	900	0.5	1,293	0.17	1/4	115	1	60	5.8	BACKDRAFT	60	ELEC DISCONNECT, 14" ROOF CURB

EXPANSION TANK							
SYMBOL	MANUFACTURER & MODEL NO.	LOCATION	SERVICE	TANK VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	WEIGHT (LBS.)	NOTES
ET-1	AMTROL - AX40	MECH PENTHOUSE	HOT WATER SYS	21.7	11.3	300	CHARGE BLADDER TO 15 PSIG, 1" NPT CONNECTION

CHEMICAL FEED SYSTEM						
SYMBOL	MANUFACTURER & MODEL NO.	LOCATION	RECEIVER NET CAPACITY (GAL)	TEMP RATING (F)	PIPE CONNECTIONS (IN)	NOTE
CF-1	GRISWOLD DB-12-SB-CS-Z-250	MECH PENTHOUSE	12	250	2 EA - 3/4"	FURNISH WITH 3/4" VALVE PACKAGE, FUNNEL PACKAGE WITH ISOLATION VALVE. ALL COMPONENTS RATED FOR 250°F WATER TEMPERATURE

SPLIT SYSTEM INDOOR UNITS																							
SYMBOL	MANUFACTURER	MODEL NO.	NOMINAL TON	AREA SERVED	AIR FLOW CFM	COOLING				HEATING			PIPING SIZE		ELEC	PHYSICAL DIMENSIONS				NOTES			
						OUTSIDE TEMP	INDOOR DB TEMP	INDOOR WB TEMP	TOTAL BTUH	SENSIBLE BTUH	OUTSIDE TEMP	INDOOR DB TEMP	TOTAL BTUH	RS DIA		RL DIA	DRAIN DIA	V/PH/HZ	POWER CONSUMPTION		WEIGHT (LB)	WIDTH (IN)	LENGTH (IN)
FC-1	mitsubishi	PKA-A18HA4	1.5	ELEC 215	420	95	80	67	18,000	10,400	15	59	13,500	1/2"	1/4"	5/8"	208/1/60	FROM CU-1	29	36	10	12	FURNISH W/ WIRED 7-DAY PROG T*STAT,CONDENSATE PUMP - SAUERMANN MODEL SI3100, CONNECT TO CU-1, R-410A REFRIGERANT, ELEC DISCONNECT BY DIV 26
FC-2	mitsubishi	PKA-A18HA4	1.5	IT 205	420	95	80	67	18,000	10,400	15	59	13,500	1/2"	1/4"	5/8"	208/1/60	FROM CU-2	29	36	10	12	FURNISH W/ WIRED 7-DAY PROG T*STAT,CONDENSATE PUMP - SAUERMANN MODEL SI3100, CONNECT TO CU-2, R-410A REFRIGERANT, ELEC DISCONNECT BY DIV 26

SPLIT SYSTEM OUTDOOR UNITS																	
SYMBOL	MANUFACTURER	MODEL NO.	NOMINAL TON	COOLING		HEATING		ELEC			PHYSICAL DIMENSION				PIPE SIZES		NOTES
				OUTDOOR TEMP	TOTAL BTUH	OUTDOOR TEMP	TOTAL BTUH	V/PH/Hz	MCA	MOCp	WEIGHT (LB)	WIDTH (IN)	LENGTH (IN)	HIGHT (IN)	RS DIA	RL DIA	
CU-1	mitsubishi	PUZ-A18NHA4	1.5	95	18,000	15	13,500	208/1/60	13	20	95	12	32	24	1/2"	1/4"	FURNISH W/ LO AMBIENT KIT (HEATING TO 5°F AMBIENT) AND WIND BAFFLE, INTERLOCK W/ FC-1 FURNISH W/ LO AMBIENT KIT (HEATING TO 5°F AMBIENT) AND WIND BAFFLE, INTERLOCK W/ FC-2
CU-2	mitsubishi	PUZ-A18NHA4	1.5	95	18,000	15	13,500	208/1/60	13	20	95	12	32	4	1/2"	1/4"	

HYDRAULIC SEPARATOR								
SYMBOL	MANUFACTURER & MODEL NO.	LOCATION	SERVICE	MAX WATER FLOW (GPM)	DESIGN WATER FLOW (GPM)	WATER TEMP. (DEG F)	PIPE CONNECTION (IN)	WEIGHT (LBS)
HS-1	SPIROVENT QUAD VDX250	BOILER ROOM	HEATING WATER SYSTEM	90	65	140	3"	70

KITCHEN HOOD												
SYMBOL	MANUFACTURER	MODEL NO.	LOCATION	FLUE	CFM @ 0.0"	CFM @ 0.1"	CFM @ 0.2"	CFM @ 0.3"	HOOD DIMENSION	ELEC INFO V/PH/Hz	AMP	NOTE
HD-1	VENT-A-HOOD	EPH18 - PREMIER MAGIC LUNG WALL MOUNTED	KITCHEN	8" DIA	600	531	480	430	36"x24"x18"	115/1/60	4.0	STAINLESS STEEL FINISH, 12"x12" DUCT COVER

GRILLES AND DIFFUSERS									
SYMBOL	MANUFACTURER & MODEL NO.	TYPE	FRAME STYLE	FACE DIMENSIONS (INCH)	NECK DIMENSIONS (INCH)	CFM RANGE	T.P. (IN. W.G.)	MAX NC	NOTES
SD-1	PRICE SCDA, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	12x12, 24x24	6	91-130	0.02-0.06	24	
	PRICE SCDA, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	12x12, 24x24	8	131-210	0.02-0.06	28	
	PRICE SCDA, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	24x24	10	211-330	0.03-0.06	30	
	PRICE SCDA, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	24x24	12	331-430	0.03-0.06	30	
	PRICE SCDA, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	24x24	14	431-530	0.04-0.06	30	
	PRICE SCDA, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	24x24	15	531-630	0.03-0.06	30	
SD-2	PRICE SCDA, TYPE 1	SUPPLY DIFFUSER	FIXED CEILING	12x12, 24x24	6	91-130	0.02-0.09	30	
	PRICE SCDA, TYPE 1	SUPPLY DIFFUSER	FIXED CEILING	12x12, 24x24	8	131-210	0.02-0.09	30	
	PRICE SCDA, TYPE 1	SUPPLY DIFFUSER	FIXED CEILING	24x24	10	211-330	0.02-0.08	30	
	PRICE SCDA, TYPE 1	SUPPLY DIFFUSER	FIXED CEILING	24x24	12	331-430	0.02-0.08	30	
	PRICE SCDA, TYPE 1	SUPPLY DIFFUSER	FIXED CEILING	24x24	14	431-530	0.03-0.08	30	
SR-1	PRICE 520	SIDEWALL SUPPLY	FLAT MARGIN	SEE PLAN	SEE PLANS	SEE PLANS	0.03-0.06	26	
RG-1	PRICE 80	RETURN GRILLE	LAY-IN CEILING	24x24, 24x12, 12x12	SEE PLANS	-	N/A	N/A	
RG-2	PRICE 80	RETURN GRILLE	FIXED CEILING	24x24, 24x12, 12x12	SEE PLANS	-	N/A	N/A	
RR-1	PRICE 530	RETURN GRILLE	SIDEWALL	SEE PLAN	SEE PLANS	-	N/A	N/A	
EG-1	PRICE 80	EXHAUST GRILLE	LAY-IN CEILING	24x24, 24x12, 12x12	SEE PLANS	SEE PLANS	0.01-0.08	25	
EG-2	PRICE 80	EXHAUST GRILLE	FIXED CEILING	24x24, 24x12, 12x12	SEE PLANS	SEE PLANS	0.01-0.08	25	
ER-1	PRICE 80	EXHAUST GRILLE	SIDEWALL	SEE PLAN	SEE PLANS	-	N/A	N/A	

CONSULTANT

ARCHITECT

**Dzilth-Na-O-Dith-Hle -
New Dormitory
Building**

PRICING SET

35 Road 7585, Bloomfield, NM
87413

NOVEMBER 10, 2020

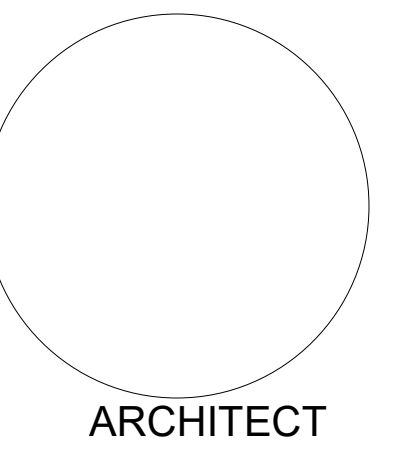
MARK	DATE	DESCRIPTION
ISSUE:		
DATE:		
PROJECT NO:		751
CAD DWG FILE:		
DRAWN BY:		LMD
CHECKED BY:		IM

SHEET TITLE
MECHANICAL SCHEDULES

M-702

NOTE:
ALL EQUIPMENT SELECTIONS ARE BASED AT AN
ELEVATION OF 5,400 FEET ABOVE SEA LEVEL

CONSULTANT



Dzilth-Na-O-Dith-Hle -
New Dormitory
Building

PRICING SET

35 Road 7585, Bloomfield, NM
87413

NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
------	------	-------------

ISSUE:	
DATE:	751
PROJECT NO:	
CAD DWG FILE:	TLA
DRAWN BY:	JMM
CHECKED BY:	

SHEET TITLE

ELECTRICAL LEGEND

E-001

UPDATED: 09/07/2016

ABBREVIATIONS	
ABBREV.	DEFINITION
A	AMPS, AMPERE, AMPERAGE
AC	ABOVE COUNTER
A/C	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CURRENT
AL	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ATSC	AUTOMATIC TRANSFER SWITCH CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AVG	AUDIO/VISUAL
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLOCK	CLOCK
CLF	CURRENT LIMITING FUSE
CO	CONDUIT ONLY
CU	COPPER
D	DIMMING
DC	DIRECT CURRENT
DL	DAY-LIGHTING
DIA	DIAMETER
E	EMERGENCY
EC	EMERGENCY, CRITICAL
EG	ENGINE GENERATOR
EL	EMERGENCY, LIFE SAFETY
EQ	EMERGENCY, EQUIPMENT
EX	EXISTING
FUT	FUTURE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FDR	FEDDER
FMS	FACILITY MANAGEMENT SYSTEM
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
G OR GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT EQUIPMENT PROTECTION
GFP	GROUND FAULT PROTECTION
GND	GROUND
HQA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IG	ISOLATED GROUND
KMIL	KILOMIL
KV	KILOVOLT
KVA	KILOVOLT AMPS
KVAR	KILOVOLT AMPS REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND FAULT PROTECTION
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MIN	MINIMUM
MM	MIXED MEDIA
MTS	MANUAL TRANSFER SWITCH
MVA	MEGAVOLT AMPS
N	NOT APPLICABLE
N/A	NORMALLY CLOSED
NC	NATIONAL ELECTRICAL CODE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT	NEUTRAL
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NORMAL
NM	NEW MEXICO
NO	NORMALLY OPEN
OH	OVERHEAD
P	POLE
PA	PUBLIC ADDRESS
PC	PHOTOCELL
PH	POWER MONITORING AND CONTROL SYSTEM
PMCS	REMOVED/REMOVAL
R	ROOM CONTROLLER
RC	RIGID STEEL CONDUIT
RSC	SECURITY
SEC	SURGE PROTECTIVE DEVICE
SPD	SWITCH
SW	TEMPORARY
TEMP	TELEPHONE TERMINAL BOARD
TTB	TELEVISION
TV	TRANSIENT VOLTAGE SURGE SUPPRESSER
TVSS	TYPICAL
UC	UNDER COUNTER
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UL	UNDERWRITERS' LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTABLE POWER SUPPLY
V	VOLTS, VOLTAGE
VFD	VARIABLE FREQUENCY DRIVE
W	WALL MOUNTED
WG	WEATHERPROOF AND GFCI
WP	WEATHERPROOF
XFER	TRANSFER
XFMR (TRANSF)	TRANSFORMER

REFERENCE TAGS	
SYMBOL	DEFINITION
	KEYED NOTE REFERENCE
	MECHANICAL EQUIPMENT REFERENCE
	DENOTES MOUNTING HEIGHT AFF
	KITCHEN EQUIPMENT REFERENCE
	MEDICAL EQUIPMENT REFERENCE

EQUIPMENT NAMING CONVENTION	
	1, 2, 3, ... = SUBFED PANEL A, B, C, ... = SEQUENCE OF PANELS OF THIS TYPE 0, 1, 2, 3, ... = FLOOR LEVEL (SB=SUB-BASEMENT, B=BASEMENT, MM=MEZZANINE, P=PENTHOUSE) T = TRANSFORMER DB = DISTRIBUTION BOARD MCC= MAIN SWITCH BOARD MCC= MOTOR CONTROL CENTER ISOLATED PANELBOARD ATS = AUTOMATIC TRANSFER SWITCH PDS = POWER DISTRIBUTION UNIT UPS = UNINTERRUPTABLE POWER SUPPLY B = BUSWAY H = HIGH VOLTAGE PANELBOARD (480Y/277V) L = LOW VOLTAGE PANELBOARD (208Y/120V) E = EMERGENCY EL = EMERGENCY-LIFE SAFETY-BRANCH EQ = EMERGENCY-EQUIPMENT-BRANCH SES = SERVICE ENTRANCE SECTION NUMBER OR MAIN EMERG SWBD NUMBER
EXAMPLES: A. SES1 (SERVICE ENTRANCE SECTION #1) B. 1H1A (SERVED FROM SES#1, 480/277 NORMAL, LEVEL 1, FIRST BOARD) C. 1EQH1A (SERVED FROM MAIN EMERG SWBD #1, 480/277 EQUIP POWER, LEVEL 1, FIRST BOARD)	
RACEWAY & CONDUCTORS	
BRANCH CIRCUIT GENERAL INFORMATION: BRANCH CIRCUITS FROM OVERCURRENT PROTECTION (20A) TO FURTHEST DEVICE SHALL NOT EXCEED 75 FEET FOR #12 COPPER AND 150 FEET FOR #10 ALUMINUM. BRANCH CIRCUITS SHALL BE MEASURED ALONG CONDUCTORS ROUTING PATH. BRANCH CIRCUITS EXCEEDING 150 FEET WILL BE SIZED SO THAT VOLTAGE DROP DOES NOT EXCEED 5%.	
	= GROUND
	= HOT/PHASE
	= NEUTRAL
	? = SWITCH LEG
	HOMERUN FROM EQUIPMENT LOCATION. THE CIRCUIT NUMBER ADJACENT TO HOMERUN INDICATES PANEL SOURCE AND INDIVIDUAL SINGLE POLE CIRCUIT BREAKER(S). CONDUCTOR IDENTIFICATION SYMBOL INDICATES NUMBER OF CONDUCTORS IN HOMERUN. MINIMUM #12 CONDUCTORS AND 3/4" RACEWAY PATH WILL BE PROVIDED IN HOMERUN UON. ALL HOMERUNS WILL INCLUDE GROUND CONDUCTOR.
	HOMERUN FROM EQUIPMENT LOCATION. THE CIRCUIT NUMBER ADJACENT TO HOMERUN INDICATES PANEL SOURCE AND INDIVIDUAL SINGLE POLE CIRCUIT BREAKER(S). SYMBOL REPRESENTS A MULTI-BRANCH CIRCUIT. NUMBER OF CONDUCTORS IN HOMERUN WILL INCLUDE A SEPARATE NEUTRAL FOR EACH CIRCUIT PHASE CONDUCTOR. MINIMUM #12 CONDUCTORS AND 3/4" RACEWAY PATH WILL BE PROVIDED IN HOMERUN UON. ALL HOMERUNS WILL INCLUDE GROUND CONDUCTOR.
	HOMERUN FROM EQUIPMENT LOCATION. THE CIRCUIT NUMBER ADJACENT TO HOMERUN INDICATES PANEL SOURCE AND INDIVIDUAL TWO OR THREE POLE CIRCUIT BREAKERS. CONDUCTOR IDENTIFICATION SYMBOL INDICATES NUMBER OF CONDUCTORS IN HOMERUN. MINIMUM #12 CONDUCTORS AND 3/4" RACEWAY PATH WILL BE PROVIDED IN HOMERUN UON. NEUTRAL MAY BE USED WHERE INDICATED ON PLAN. ALL HOMERUNS WILL INCLUDE GROUND CONDUCTOR.
	HOMERUN FROM EQUIPMENT LOCATION. THE CIRCUIT NUMBER ADJACENT TO HOMERUN INDICATES PANEL SOURCE AND INDIVIDUAL TWO OR THREE POLE CIRCUIT BREAKERS. CONDUCTOR IDENTIFICATION SYMBOL INDICATES NUMBER OF CONDUCTORS IN HOMERUN. MINIMUM #12 CONDUCTORS AND 3/4" RACEWAY PATH WILL BE PROVIDED IN HOMERUN UON. NEUTRAL MAY BE USED WHERE INDICATED ON PLAN. ALL HOMERUNS WILL INCLUDE GROUND CONDUCTOR.
	HOMERUN FROM EQUIPMENT LOCATION. THE CIRCUIT NUMBER ADJACENT TO HOMERUN INDICATES PANEL SOURCE AND INDIVIDUAL TWO OR THREE POLE CIRCUIT BREAKERS. CONDUCTOR IDENTIFICATION SYMBOL INDICATES NUMBER OF CONDUCTORS IN HOMERUN. MINIMUM #12 CONDUCTORS AND 3/4" RACEWAY PATH WILL BE PROVIDED IN HOMERUN UON. NEUTRAL MAY BE USED WHERE INDICATED ON PLAN. ALL HOMERUNS WILL INCLUDE GROUND CONDUCTOR.
	CONCEALED RACEWAY BETWEEN DEVICES AND OR EQUIPMENT IN WALLS OR IN CEILING SPACE
	UNDERGROUND RACEWAY BETWEEN DEVICES AND OR EQUIPMENT
	EXPOSED RACEWAY BETWEEN DEVICES AND OR EQUIPMENT ON WALLS OR CEILINGS
	CONDUIT TURNS
	BUSWAY
	GROUNDING CONDUCTOR
	CABLE TRAY - POWER AND TELECOMMUNICATIONS
	TELECOMMUNICATIONS RACEWAY
	DATA RACEWAY
	VOICE/DATA COMBINATION RACEWAY
	FIRE ALARM RACEWAY

GENERAL DRAWING SYMBOLS	
	SECTION/ELEVATION LETTER OR DETAIL NUMBER
	DRAWING NUMBER WHERE DETAILED
	SECTION/ELEVATION LETTER OR DETAIL NUMBER
	DRAWING NUMBER WHERE DETAILED
	DRAWING NUMBER WHERE TAKEN
	NORTH ARROW OR MATCH ARCHITECT'S
	SCALE BAR OR MATCH ARCHITECT'S

DEMOLITION		
SYMBOL	DESCRIPTION	NOTES
	DASHED SYMBOL INDICATES EXISTING DEVICE OR EQUIPMENT TO BE REMOVED	REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION
	REMOVE EXISTING RACEWAY IN ALL ACCESSIBLE AREAS. CAPPED AND ABANDONED IF IN UNACCESSIBLE AREA	
	SOLID SYMBOL, LIGHTER IN COLOR INDICATES EXISTING DEVICE OR EQUIPMENT TO REMAIN	
	EXISTING CONDUIT TO BE REUSED	

DEVICES	
DEVICE INDICATOR LETTER "X" EQUALS DESIGNATION BELOW (TYPICAL FOR MOST RECEPTACLE TYPES): BLANK FOR NORMAL POWER G = GFCI RATED IG = ISOLATED GROUND T = TAMPERPROOF WG = WEATHERPROOF AND GFCI WP = WEATHERPROOF (IN-USE COVER) CL = CLOCK TV = TELEVISION	
	IN FLOOR DUPLEX RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS
	IN FLOOR DOUBLE DUPLEX (QUADPLEX) RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS
	IN FLOOR EMERGENCY DUPLEX RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS
	IN FLOOR EMERGENCY DOUBLE DUPLEX (QUADPLEX) RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS
	COMBINATION DUPLEX RECEPTACLE AND COMMUNICATIONS FLOORBOX. DEVICE CONFIGURATION AS INDICATED ON PLANS.
	CEILING MOUNTED DUPLEX RECEPTACLE
	CEILING MOUNTED DOUBLE DUPLEX (QUADPLEX) RECEPTACLE
	CEILING MOUNTED EMERGENCY DUPLEX RECEPTACLE
	CEILING MOUNTED EMERGENCY DOUBLE DUPLEX (QUADPLEX) RECEPTACLE
	COMBINATION POWER/COMMUNICATION IN CEILING OUTLET. CONFIGURATION AS INDICATED ON PLANS
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	DOUBLE DUPLEX (QUADPLEX) RECEPTACLE
	EMERGENCY DUPLEX RECEPTACLE
	EMERGENCY DOUBLE DUPLEX (QUADPLEX) RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE. NEMA CONFIGURATION AND AMPERAGE AS NOTED ON PLANS
	MULTI-OUTLET ASSEMBLY (SURFACE MOUNTED RACEWAY)
	COMBINATION POWER/COMMUNICATION POLE. CONFIGURATION AS NOTED ON PLANS
	WALL MOUNTED CODE SIZE J-BOX
	CODE SIZE JUNCTION BOX
	CODE SIZE PULLBOX (OR AS SIZED ON PLAN)
	PUSHBUTTON (EMERGENCY POWER OFF - EPO)
	PHOTOCELL
	LIGHTNING PROTECTION AIR TERMINAL
	THERMOSTAT
	ENCLOSED CIRCUIT BREAKER. AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON
	NON-FUSED DISCONNECT SWITCH. AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON
	FUSED DISCONNECT SWITCH. AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON
	MOTOR STARTER. STARTER SIZE INDICATED BY NUMBER/NEMA ENCLOSURE RATING, SINGLE SPEED UON
	COMBINATION FUSIBLE DISCONNECT SWITCH AND MOTOR STARTER. NEMA STARTER SIZE/AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON
	MOTOR. NUMBER INDICATES HORSEPOWER RATING FOR 1HP AND LARGER
	MOTOR. "F" INDICATES FRACTIONAL HORSEPOWER

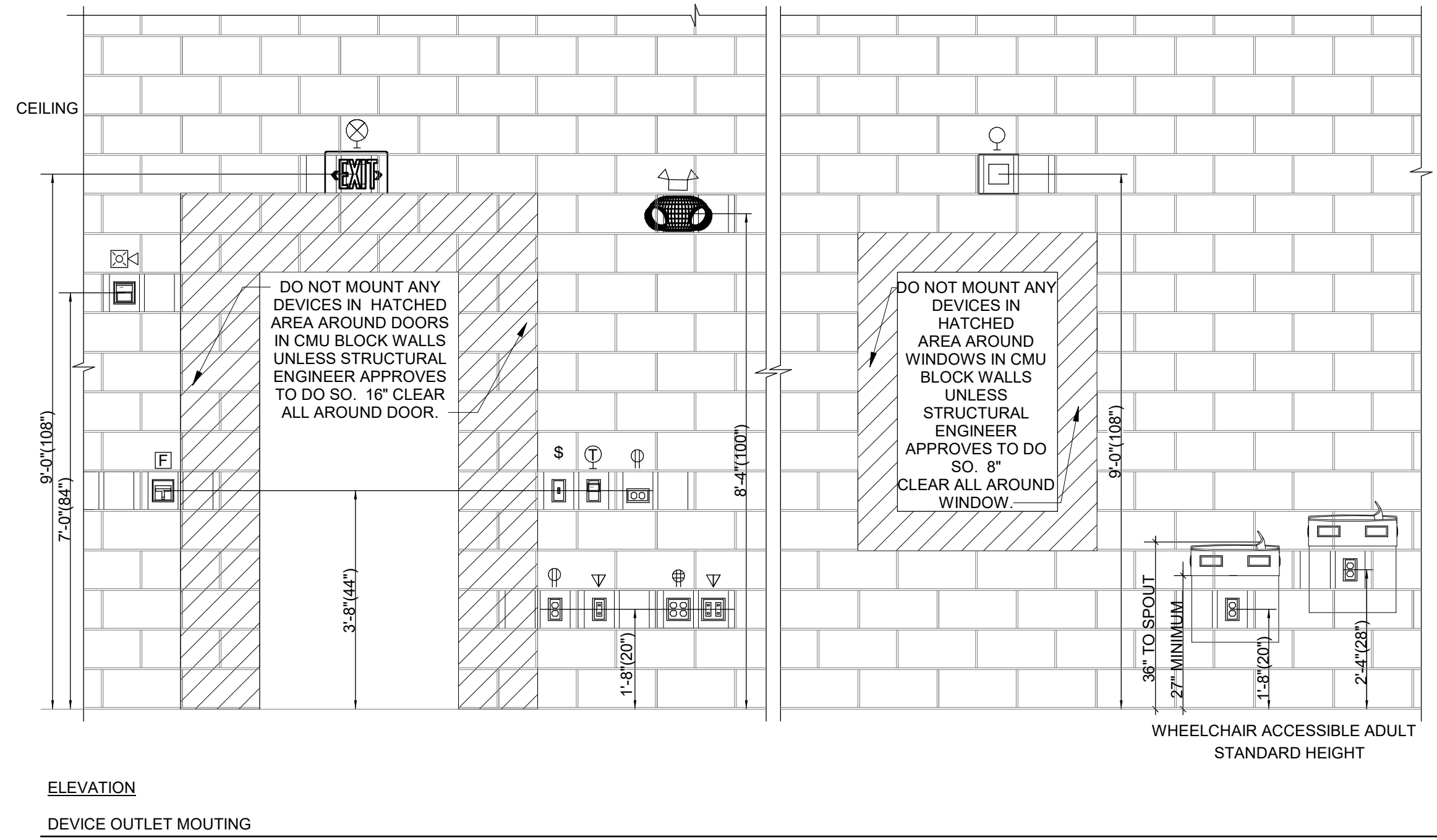
EQUIPMENT	
SYMBOL	DESCRIPTION
	MAIN SWITCHBOARD. DASHED LINES INDICATE CLEARANCES.
	DISTRIBUTION BOARD OR PANEL. DASHED LINES INDICATE CLEARANCES.
	FLUSH MOUNTED PANELBOARD. DASHED LINES INDICATE CLEARANCES.
	SURFACE MOUNTED PANELBOARD. DASHED LINES INDICATE CLEARANCES.
	MOTOR CONTROL CENTER. DASHED LINES INDICATE CLEARANCES.
	DRY TYPE TRANSFORMER (15KVA OR ABOVE), WITH EQUIPMENT TAG (TAG INSIDE OR OUTSIDE, DEPENDING ON SIZE). IN MOST CASES, ACTUAL SIZE SHOWN ON PLANS (ELECTRICAL ROOMS).
	DRY TYPE TRANSFORMER (LESS THAN 15KVA), WITH NO EQUIPMENT TAG. SIZE, TYPE AND LOCATION NOTED ON PLANS.
	VARIABLE FREQUENCY DRIVE
	UNINTERRUPTABLE POWER SUPPLY. DASHED LINES INDICATE CLEARANCES.
	AUTOMATIC TRANSFER SWITCH. DASHED LINES INDICATE CLEARANCES.
	GROUND BAR

LIGHTING	
REFER TO LUMINAIRE SCHEDULE FOR ALL LUMINAIRE TYPES WHETHER WALL MOUNTED OR CEILING MOUNTED.	
SYMBOL	DESCRIPTION
	HATCHING INDICATES EMERGENCY LIGHTING. HATCH WILL BE MODIFIED FOR EACH LUMINAIRE TYPE. EMERGENCY LUMINAIRE DESIGNATED WITH "E" IN TYPE DESIGNATION.
	RECESSED MOUNTED LUMINAIRE. SMALL CASE "4" DENOTES SWITCHING, NUMBER "3" DENOTES BRANCH CIRCUITING. SYMBOL "A" DENOTES LUMINAIRE TYPE.
	SURFACE MOUNTED LUMINAIRE. LUMINAIRE TYPE AS INDICATED ON PLANS
	LINEAR DIRECT/INDIRECT LUMINAIRE. CABLE OR STEIN MOUNTED
	DOWN LIGHT LUMINAIRE. CEILING MOUNTED
	WALL MOUNTED LUMINAIRE
	TRACK MOUNTED LUMINAIRE
	STRIP LUMINAIRE
	EXIT LUMINAIRE. SHADED SIDE INDICATES FACE SIDE. PROVIDE DIRECTIONAL ARROW(S) AS INDICATED ON PLANS
	DOUBLE FACE EXIT LUMINAIRE. SHADED SIDE INDICATES FACE SIDE. PROVIDE DIRECTIONAL ARROW(S) AS INDICATED ON PLANS
	EMERGENCY BATTERY PACK LUMINAIRE (BUG-EYE/FROG-EYE)
	SINGLE HEAD, POLE MOUNTED LUMINAIRE
	DOUBLE HEAD, POLE MOUNTED LUMINAIRE
	DEVICE INDICATOR LETTER "X" EQUALS DESIGNATION BELOW (TYPICAL FOR MOST SWITCH TYPES): a = SMALL CASE LETTER DENOTES SWITCHING CONTROL 2 = DOUBLE POLE TOGGLE SWITCH 3 = THREE-WAY TOGGLE SWITCH 4 = FOUR-WAY TOGGLE SWITCH P = PILOT LIGHT TOGGLE SWITCH M = MOMENTARY CONTACT SWITCH K = KEY OPERATED SWITCH WP = WEATHERPROOF TOGGLE SWITCH T = MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD PROTECTION D = DIMMER SWITCH TW = TWIST TIMER SWITCH WALL MOUNTED OCCUPANCY SENSOR; TYPE AS INDICATED ON PLANS
	CEILING MOUNTED OCCUPANCY SENSOR; TYPE AS INDICATED ON PLANS
	DAY-LIGHTING SENSOR; TYPE AS INDICATED ON PLANS
	ROOM CONTROLLER; TYPE AS INDICATED ON PLANS

UTILITIES	
SYMBOL	DESCRIPTION
	DISTRIBUTION POLE FOR OVERHEAD ELECTRICAL OR COMMUNICATIONS AS INDICATED ON PLAN.
	OVERHEAD UTILITY AND OR SYSTEM DISTRIBUTION. 3PH = THREE PHASE 1PH = SINGLE PHASE P = ELECTRICAL PRIMARY S = ELECTRICAL SECONDARY T = TELECOMMUNICATION TV = TELEVISION E = EMERGENCY POWER ATSC = AUTOMATIC TRANSFER SWITCH CONTROL N = NEW EX = EXISTING
	UNDERGROUND UTILITY AND OR SYSTEM DISTRIBUTION.
	UTILITY OR FACILITY TRANSFORMER
	PAD MOUNTED SWITCH
	CONNECTION CABINET (UTILITY METER MOUNT)
	PRIMARY SITE METER ENCLOSURE
	METER ENCLOSURE. EITHER ON BUILDING OR ON UTILITY EQUIPMENT
	CT ENCLOSURE. EITHER ON BUILDING OR ON UTILITY EQUIPMENT
	MANHOLE - POWER OR COMMUNICATION AS INDICATED ON PLANS
	HAND HOLE - POWER OR COMMUNICATION AS INDICATED ON PLANS
	ENGINE GENERATOR
	TELECOMMUNICATION PEDESTAL
	TELEVISION PEDESTAL

FIRE ALARM		
SYMBOL	DESCRIPTION	MOUNTING LOC. HT.
	FIRE ALARM CONTROL PANEL	
	FIRE ALARM TERMINAL CABINET (EQUIPMENT NAMING CONVENTION PER PLANS)	WALL
	FIRE ALARM ANNUNCIATOR PANEL	
	PULL STATION	WALL +44"
	FIREMAN'S TELEPHONE OUTLET	
	HORN NOTIFICATION	
	SPEAKER NOTIFICATION	
	CHIME NOTIFICATION	
	COMBINATION SPEAKER AND CHIME NOTIFICATION	WALL +80" UON
	STROBE LIGHT ONLY	
	BELL (GONG)	
	PHOTOELECTRIC SMOKE DETECTOR	
	IONIZATION SMOKE DETECTOR	
	COMBINATION RATE OF RISE / FIXED TEMPERATURE	CEILING SURFACE
	FIXED TEMPERATURE; TEMPERATURE AS NOTED ON PLANS OR SPECIFICATIONS	
	RATE OF RISE ONLY	
	BEAM TRANSMITTER	CEILING OR WALL
	BEAM RECEIVER	VARIES
	UNDER FLOOR SMOKE DETECTOR	UNDER FLOOR
	DUCT DETECTOR	SEE PLANS
	FIRE/SMOKE DAMPER	AT DUCT
	PRESSURE SWITCH	
	TAMPER SWITCH	
	FLOW SWITCH	PIPE VARIES
	POST INDICATOR VALVE	
	MAGNETIC DOOR HOLDER	
	CONTROL RELAY	
	MONITOR MODULE	VARIES
	REMOTE ALARM INDICATING LIGHT	SEE PLANS
	ADDRESSABLE/SUPERVISED RELAY	

ONE-LINE DIAGRAM	
SYMBOL	DESCRIPTION
	CIRCUIT BREAKER; TRIP SETTING/FRAME SIZE OR NO. OF POLES, SETTINGS AND PROTECTION AS NOTED ON PLANS
	DRAWOUT CIRCUIT BREAKER (TRIP SETTING FRAME SIZE)
	MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER (TRIP SETTING FRAME SIZE)
	TRANSFORMER. TRANSFORMER NAME, TRANSFORMER KVA RATING, PRIMARY VOLTAGE AND WIRING CONFIGURATION, SECONDARY VOLTAGE, K RATING (IF APPLICABLE) CURRENT TRANSFORMER, NUMBER "3000/5" DENOTES RATIO.
	POTENTIAL TRANSFORMER.
	DISCONNECT SWITCH. "300A" DENOTES AMPERAGE RATING
	FUSE. "300A" DENOTES AMPERAGE RATING
	GROUND FAULT PROTECTION
	SHUNT TRIP OPERATOR
	GROUND CONNECTION
	TRANSFER SWITCH. SEE PLANS FOR TYPE OF SWITCH
	SURGE ARRESTER
	SURGE PROTECTIVE DEVICE
	KILOWATT METER
	ELECTRONIC METER
	KIRK KEY INTERLOCK No. 1
	RELAY No. 1
	AMMETER SWITCH
	AMMETER
	VOLTMETER SWITCH
	VOLTMETER
	DELTA CONNECTED
	WYE CONNECTED
	GENERATOR
	VFD CONNECTION
	MOTOR CONNECTION
	UPS





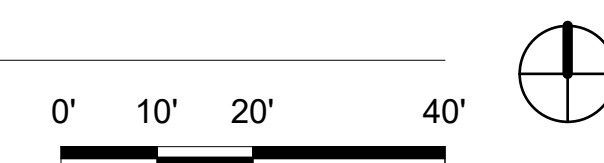
- A. SEE SHEET E-602 FOR FLOOR PLAN, RASER RING DIAGRAM AND ADDITIONAL INFORMATION.
- B. REFER TO SHEET SERIES "CT," "ASM," "IT," "M" AND "P" FOR OTHER UTILITIES WITHIN ROUTING PATH OF ELECTRICAL RACEWAYS.
- C. REFER TO SHEET E-601 FOR ONE-LINE DIAGRAM AND ADDITIONAL ELECTRICAL DISTRIBUTION INFORMATION.
- D. REFER TO SHEET SERIES "TELECOM" FOR TELECOMMUNICATION ROOMS, EQUIPMENT LAYOUTS AND EQUIPMENT SIZES.
- E. ALL EXTERIOR BUILDING LUMINAIRES AND POLE MOUNTED SITE LUMINAIRES WILL BE INSTALLED IN THE SAME CLOCK LOCATION IN THE ELECTRICAL ROOM WHERE PANEL, CIRCUITING THOSE LUMINAIRES IS LOCATED. THE EXTERIOR BUILDING LUMINAIRES AND SITE LUMINAIRES MUST BE IDENTIFIED AND CONTROLLED SEPARATELY.
- F. REFER TO SHEET E-701 FOR LUMINAIRE SCHEDULE.
- G. SHOULD CONTRACTOR AT ANY TIME NOTICE THAT THE ACTUAL FIELD CONDITIONS DO NOT CORRESPOND TO THE INFORMATION GIVEN ON THIS DRAWING, THEY SHALL IMMEDIATELY NOTIFY THE ARCHITECT FOR CLARIFICATION, PRIOR TO COMMENCING SUCH WORK.
- H. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR THE EXACT LOCATION OF EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS.
- I. FOR ALL WIRING FROM THE ELECTRICAL ROOM, REFER TO SHEET ES-101 ON THE SCHOOL PORTION.
- J. COMPLY WITH NFPA 70, 2004 ED.

1. ELECTRICAL ROOM. REFER TO SHEETS ES-101 FOR ELECTRICAL EQUIPMENT LAYOUT.
2. UTILITY TRANSFORMER. REFER TO SHEET E-601 FOR ADDITIONAL INFORMATION.
3. MAIN ELECTRICAL DISTRIBUTION TO BE FED FROM EXISTING MAINTENANCE BUILDING.
4. EXISTING ENGINE GENERATOR. REFER TO SHEET E-601 FOR ADDITIONAL INFORMATION. COORDINATE ALL REQUIREMENTS WITH MANUFACTURER FOR A COMPLETE AND OPERATIONAL SYSTEM.
5. FOR POWER TO SCHOOL BUILDING, SEE SHEET ES-101 ON SCHOOL PORTION.
6. QUADPLEX IN 12" x 12" x 6" LOCKABLE AND HINGED COVERED PULL BOX ALL TO BE POWERED FROM THE UTILITY YARD AND LOCATED IN NEARBY MAINTENANCE BUILDING.
7. PROVIDE 12" x 12" x 6" LOCKABLE AND HINGED COVERED PULL BOX PER TECHNOLOGY.
8. ELECTRICAL ROOM IN SCHOOL BUILDING. REFER TO SHEETS ES-101A AND E-401 ON SCHOOL PORTION FOR ADDITIONAL INFORMATION.
9. SITE POLE FOR POLE MOUNTED LIGHTING. FOR OVERALL SITE LIGHTING LAYOUT AND ADDITIONAL INFORMATION REFER TO SHEET ES101E AND E-701 ON THE SCHOOL PORTION



ES-101

SCALE: 1" = 20'-0"

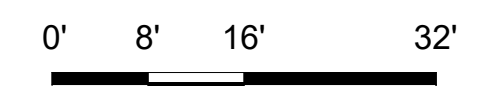




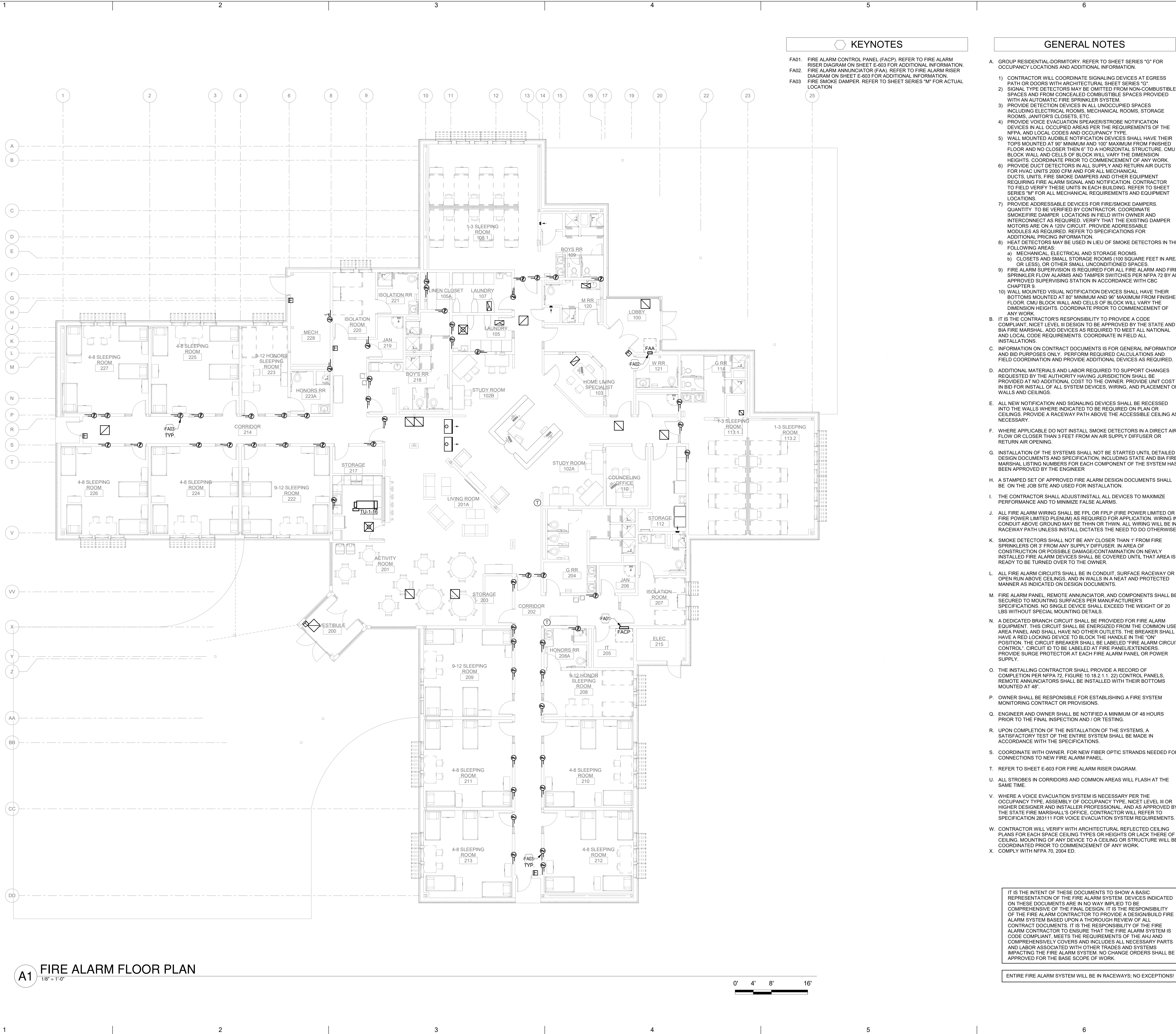
EL-101



EP-141



LP-141



A1 FIRE ALARM FLOOR PLAN
1/8" = 1'-0"

KEYNOTES

- FA01. FIRE ALARM CONTROL PANEL (FACP). REFER TO FIRE ALARM RISER DIAGRAM ON SHEET E-603 FOR ADDITIONAL INFORMATION.
FA02. FIRE ALARM ANNUNCIATOR (FAA). REFER TO FIRE ALARM RISER DIAGRAM ON SHEET E-603 FOR ADDITIONAL INFORMATION.
FA03. FIRE SMOKE DAMPER. REFER TO SHEET SERIES "M" FOR ACTUAL LOCATION

GENERAL NOTES

- A. GROUP RESIDENTIAL-DORMITORY. REFER TO SHEET SERIES "G" FOR OCCUPANCY LOCATIONS AND ADDITIONAL INFORMATION.
- 1) CONTRACTOR WILL COORDINATE SIGNALING DEVICES AT EGRESS PATH OR DOORS WITH ARCHITECTURAL SHEET SERIES "G".
2) SIGNAL TYPE DETECTORS MAY BE OMITTED FROM NON-COMBUSTIBLE SPACES AND FROM CONCEALED COMBUSTIBLE SPACES PROVIDED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM.
3) PROVIDE DETECTION DEVICES IN ALL UNOCCUPIED SPACES INCLUDING ELECTRICAL ROOMS, MECHANICAL ROOMS, STORAGE ROOMS, JANITOR'S CLOSETS, ETC.
4) PROVIDE VOICE EVACUATION SPEAKER/STROBE NOTIFICATION DEVICES IN ALL OCCUPIED AREAS PER THE REQUIREMENTS OF THE NFPA AND LOCAL CODES AND OCCUPANCY TYPE.
5) WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE. CMU BLOCK WALL AND CELLS OF BLOCK WILL VARY THE DIMENSION HEIGHTS. COORDINATE PRIOR TO COMMENCEMENT OF ANY WORK.
6) PROVIDE DUCT DETECTORS IN ALL SUPPLY AND RETURN AIR DUCTS FOR HVAC UNITS 2000 CFM AND FOR ALL MECHANICAL DUCTS, UNITS, FIRE SMOKE DAMPERS AND OTHER EQUIPMENT REQUIRING FIRE ALARM SIGNAL AND NOTIFICATION. CONTRACTOR TO FIELD VERIFY THESE UNITS IN EACH BUILDING. REFER TO SHEET SERIES "M" FOR ALL MECHANICAL REQUIREMENTS AND EQUIPMENT LOCATIONS.
7) PROVIDE ADDRESSABLE DEVICES FOR FIRE/SMOKE DAMPERS. QUANTITY TO BE VERIFIED BY CONTRACTOR. COORDINATE SMOKE/FIRE DAMPER LOCATIONS IN FIELD WITH OWNER AND INTERCONNECT AS REQUIRED. VERIFY THAT THE EXISTING DAMPER MOTORS ARE ON A 120V CIRCUIT. PROVIDE ADDRESSABLE MODULES AS REQUIRED. REFER TO SPECIFICATIONS FOR ADDITIONAL PRICING INFORMATION.
8) HEAT DETECTORS MAY BE USED IN LIEU OF SMOKE DETECTORS IN THE FOLLOWING AREAS:
a) MECHANICAL, ELECTRICAL AND STORAGE ROOMS.
b) CLOSETS AND SMALL STORAGE ROOMS (100 SQUARE FEET IN AREA OR LESS), OR OTHER SMALL UNCONDITIONED SPACES.
9) FIRE ALARM SUPERVISION IS REQUIRED FOR ALL FIRE ALARM AND FIRE SPRINKLER FLOW ALARMS AND TAMPER SWITCHES PER NFPA 72 BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH CBC CHAPTER 9.
10) WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR. CMU BLOCK WALL AND CELLS OF BLOCK WILL VARY THE DIMENSION HEIGHTS. COORDINATE PRIOR TO COMMENCEMENT OF ANY WORK.
- B. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A CODE COMPLIANT, NICET LEVEL III DESIGN TO BE APPROVED BY THE STATE AND BIA FIRE MARSHAL. ADD DEVICES AS REQUIRED TO MEET ALL NATIONAL AND LOCAL CODE REQUIREMENTS. COORDINATE IN FIELD ALL INSTALLATIONS.
- C. INFORMATION ON CONTRACT DOCUMENTS IS FOR GENERAL INFORMATION AND BID PURPOSES ONLY. PERFORM REQUIRED CALCULATIONS AND FIELD COORDINATION AND PROVIDE ADDITIONAL DEVICES AS REQUIRED.
- D. ADDITIONAL MATERIALS AND LABOR REQUIRED TO SUPPORT CHANGES REQUESTED BY THE AUTHORITY HAVING JURISDICTION SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. PROVIDE UNIT COST IN BID FOR INSTALL OF ALL SYSTEM DEVICES, WIRING, AND PLACEMENT ON WALLS AND CEILINGS.
- E. ALL NEW NOTIFICATION AND SIGNALING DEVICES SHALL BE RECESSED INTO THE WALLS WHERE INDICATED TO BE REQUIRED ON PLAN OR CEILINGS. PROVIDE A RACEWAY PATH ABOVE THE ACCESSIBLE CEILING AS NECESSARY.
- F. WHERE APPLICABLE DO NOT INSTALL SMOKE DETECTORS IN A DIRECT AIR FLOW OR CLOSER THAN 3 FEET FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING.
- G. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE AND BIA FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY THE ENGINEER.
- H. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
- I. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
- J. ALL FIRE ALARM WIRING SHALL BE FPL OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN. ALL WIRING WILL BE IN RACEWAY PATH UNLESS INSTALL DICTATES THE NEED TO DO OTHERWISE.
- K. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
- L. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS.
- M. FIRE ALARM PANEL, REMOTE ANNUNCIATOR, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURER'S SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS WITHOUT SPECIAL MOUNTING DETAILS.
- N. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT FIRE PANEL EXTENDERS. PROVIDE SURGE PROTECTOR AT EACH FIRE ALARM PANEL OR POWER SUPPLY.
- O. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72, FIGURE 10.16.2.1.1, 2.2) CONTROL PANELS, REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48".
- P. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
- Q. ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND / OR TESTING.
- R. UPON COMPLETION OF THE INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN ACCORDANCE WITH THE SPECIFICATIONS.
- S. COORDINATE WITH OWNER. FOR NEW FIBER OPTIC STRANDS NEEDED FOR CONNECTIONS TO NEW FIRE ALARM PANEL.
- T. REFER TO SHEET E-603 FOR FIRE ALARM RISER DIAGRAM.
- U. ALL STROBES IN CORRIDORS AND COMMON AREAS WILL FLASH AT THE SAME TIME.
- V. WHERE A VOICE EVACUATION SYSTEM IS NECESSARY PER THE OCCUPANCY TYPE, ASSEMBLY OF OCCUPANCY TYPE, NICET LEVEL III OR HIGHER DESIGNER AND INSTALLER PROFESSIONAL, AND AS APPROVED BY THE STATE FIRE MARSHAL'S OFFICE, CONTRACTOR WILL REFER TO SPECIFICATION 283111 FOR VOICE EVACUATION SYSTEM REQUIREMENTS.
- W. CONTRACTOR WILL VERIFY WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR EACH SPACE CEILING TYPES OR HEIGHTS OR LACK THERE OF A CEILING. MOUNTING OF ANY DEVICE TO A CEILING OR STRUCTURE WILL BE COORDINATED PRIOR TO COMMENCEMENT OF ANY WORK.
- X. COMPLY WITH NFPA 70, 2004 ED.

IT IS THE INTENT OF THESE DOCUMENTS TO SHOW A BASIC REPRESENTATION OF THE FIRE ALARM SYSTEM DEVICES INDICATED ON THESE DOCUMENTS ARE IN NO WAY IMPLIED TO BE COMPREHENSIVE OF THE FINAL DESIGN. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO PROVIDE A DESIGN/BUILD FIRE ALARM SYSTEM BASED UPON A THOROUGH REVIEW OF ALL CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO ENSURE THAT THE FIRE ALARM SYSTEM IS CODE COMPLIANT, MEETS THE REQUIREMENTS OF THE AHJ AND COMPREHENSIVELY COVERS AND INCLUDES ALL NECESSARY PARTS AND LABOR ASSOCIATED WITH OTHER TRADES AND SYSTEMS IMPACTING THE FIRE ALARM SYSTEM. NO CHANGE ORDERS SHALL BE APPROVED FOR THE BASE SCOPE OF WORK.

ENTIRE FIRE ALARM SYSTEM WILL BE IN RACEWAYS; NO EXCEPTIONS!

fbt | architects

MAIL: 6501 Americas Play NE, Ste. 300
Albuquerque, NM 87110

PHO: 505.883.5200
FAX: 505.884.5290
WEB: www.fbtarch.com

CONSULTANT

ARCHITECT

**Dzilth-Na-O-Dith-Hle -
New Dormitory
Building**

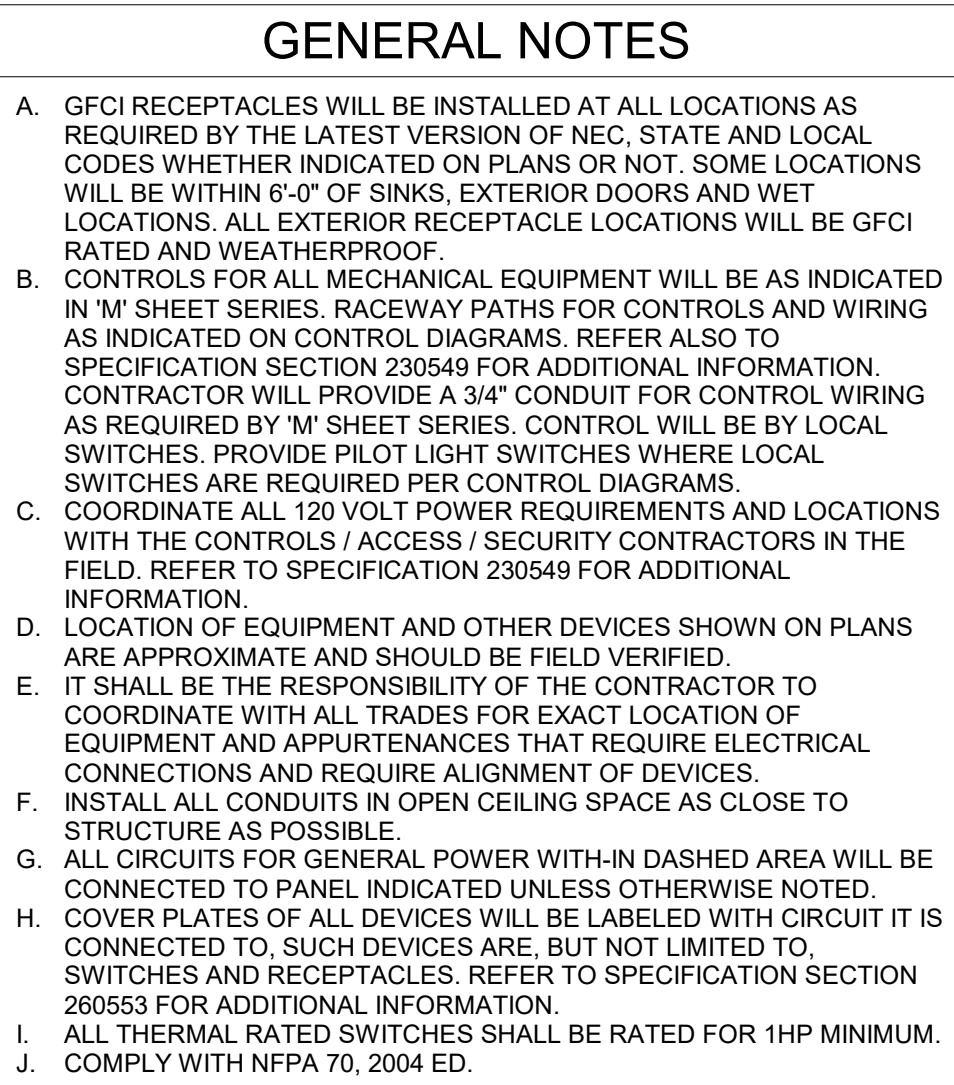
PRICING SET

35 Road 7585, Bloomfield, NM
87413

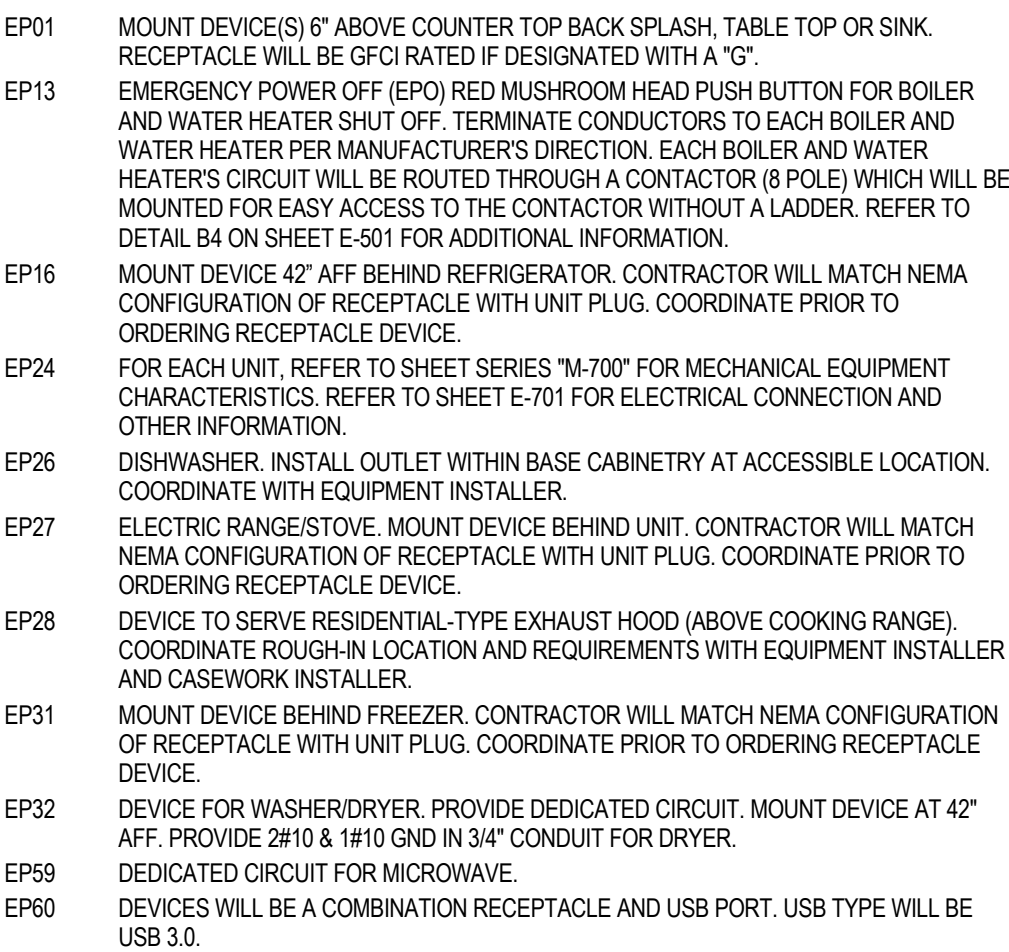
NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
ISSUE:		
DATE:		
PROJECT NO: 751		
CAD DWG FILE:		
DRAWN BY: AMH		
CHECKED BY: JMM		
SHEET TITLE		
FIRE ALARM FLOOR PLAN		

FA-101



KEYNOTES



The floor plan shows the second floor of the building. It includes two main laundry areas: LAUNDRY 107 and LAUNDRY 105. LAUNDRY 107 is located in the upper left and contains four DPLA units (40, 42, 34, 36) and one DPLA unit (26). LAUNDRY 105 is located in the lower left and contains four DPLA units (30, 32, 28, 20) and one DPLA unit (18). The plan also shows various corridors, service areas, and equipment symbols such as EP32, EP30, EP01, and EP02. The floor is divided into sections by walls and doors, with room numbers and names clearly labeled.

B **BRIDGERS
& PAXTON**

4600 C Montgomery Blvd. NE
Albuquerque, NM 87109 | 505.883.4111 | www.bpce.com

ARCHITECT

PRICING SET

35 Road 7585, Bloomfield, NM
87413

NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
ISSUE:		
DATE:		
PROJECT NO:		751
CAD DWG FILE:		
DRAWN BY:		TLA
CHECKED BY:		JMM

SHEET TITLE

ENLARGED PLANS

E-401



COPPER FEEDER SCHEDULE			
NOTE: ALL CONDUCTORS ARE COPPER, TYPE THW/THHN UNLESS OTHERWISE NOTED.			
DESIGNATION	CONDUCTORS	GROUND	CONDUIT NOTES
THREE PHASE THREE WIRE & GROUND FEEDER			
20A	3#12	12	3/4"
25A	3#10	10	3/4"
30A	3#10	10	3/4"
35A	3#8	10	3/4"
40A	3#8	10	3/4"
45A	3#8	10	3/4"
50A	3#8	10	3/4"
60A	3#6	10	1"
70A	3#4	8	1 1/4"
80A	3#4	8	1 1/4"
90A	3#2	8	1 1/4"
100A	3#2	8	1 1/4"
125A	3#1	6	1 1/2"
150A	3#1/0	6	1 1/2"
175A	3#2/0	6	2"
200A	3#3/0	6	2"
225A	3#4/0	4	2 1/2"
250A	3-250 KCMIL	4	3"
300A	3-350 KCMIL	4	3"
350A	3-500 KCMIL	2	4"
400A	3-600 KCMIL	2	4"
450A	(2) 3#4/0	(2) 2	(2) 2 1/2"
500A	(2) 3-250 KCMIL	(2) 2	(2) 3"
600A	(2) 3-350 KCMIL	(2) 1	(2) 3"
700A	(2) 3-500 KCMIL	(2) 1	(2) 4"
800A	(2) 3-600 KCMIL	(2) 1/0	(2) 4"
1000A	(3) 3-400 KCMIL	(3) 2/0	(3) 3"
1200A	(3) 3-600 KCMIL	(3) 3/0	(3) 4"
1600A	(4) 3-600 KCMIL	(4) 4/0	(4) 4"
2000A	(5) 3-600 KCMIL	(5) 250 KCMIL	(5) 4"
2500A	(6) 3-600 KCMIL	(6) 350 KCMIL	(6) 4"
3000A	(8) 3-600 KCMIL	(8) 400 KCMIL	(8) 4"
4000A	(10) 3-600 KCMIL	(10) 500 KCMIL	(10) 4"
THREE PHASE FOUR WIRE & GROUND FEEDER			
20Y	4#12	12	3/4"
25Y	4#10	10	3/4"
30Y	4#10	10	3/4"
35Y	4#8	10	3/4"
40Y	4#8	10	3/4"
45Y	4#8	10	3/4"
50Y	4#8	10	3/4"
60Y	4#6	10	1"
70Y	4#4	8	1 1/4"
80Y	4#4	8	1 1/4"
90Y	4#2	8	1 1/4"
100Y	4#2	8	1 1/4"
125Y	4#1	6	1 1/2"
150Y	4#1/0	6	2"
175Y	4#2/0	6	2"
200Y	4#3/0	6	2"
225Y	4#4/0	4	2 1/2"
250Y	4-250 KCMIL	4	3"
300Y	4-350 KCMIL	4	3"
350Y	4-500 KCMIL	2	4"
400Y	4-600 KCMIL	2	4"
450Y	(2) 4#4/0	(2) 2	(2) 2 1/2"
500Y	(2) 4-250 KCMIL	(2) 2	(2) 3"
600Y	(2) 4-350 KCMIL	(2) 1	(2) 3"
700Y	(2) 4-500 KCMIL	(2) 1	(2) 4"
800Y	(2) 4-600 KCMIL	(2) 1/0	(2) 4"
1000Y	(3) 4-400 KCMIL	(3) 2/0	(3) 3"
1200Y	(3) 4-600 KCMIL	(3) 3/0	(3) 4"
1600Y	(4) 4-600 KCMIL	(4) 4/0	(4) 4"
2000Y	(5) 4-600 KCMIL	(5) 250 KCMIL	(5) 4"
2500Y	(6) 4-600 KCMIL	(6) 350 KCMIL	(6) 4"
3000Y	(8) 4-600 KCMIL	(8) 400 KCMIL	(8) 4"
4000Y	(10) 4-600 KCMIL	(10) 500 KCMIL	(10) 4"
5000Y	(12) 4-600 KCMIL	(12) 700 KCMIL	(12) 4"
EQUIPMENT BONDING JUMPER FOR SEPARATELY DERIVED SYSTEMS PER NEC 250.66 (PROVIDE CONDUCTOR GROUND BELOW INSTEAD OF FEEDER GROUND FOR			
THREE PHASE 4-WIRE SYSTEMS INDICATED ABOVE/JUND			
20YS THRU 100YS	8		
125YS THRU 150YS	6		
175YS THRU 200YS	4		
225YS THRU 300YS	2		
350YS THRU 500YS	1/0		
600YS THRU 700YS	2/0		
800YS THRU 5000YS	3/0		
THREE PHASE FOUR WIRE 200% NEUTRAL & GROUND FEEDER			
100Y-E	3#2, 1#4/0 NEUTRAL	8	
150Y-E	3#2/0, 2#0 NEUT.	6	2"
225Y-E	3-250 KCMIL, 2-250 KCMIL NEUT.	4	2 1/2"
350Y-E	(2) 3#3/0, (2) 2#3/0 NEUT.	(2) 2	(2) 2 1/2"
400Y-E	(2) 3#4/0, (2) 2#4/0 NEUT.	(2) 2	(2) 2 1/2"
500Y-E	(2) 3-350 KCMIL, (2) 2-350 KCMIL NEUT.	(2) 2	(2) 3"

C1 COPPER FEEDER SCHEDULE

NONE

ALUMINUM FEEDER SCHEDULE				
NOTE: ALL CONDUCTORS ARE ALUMINUM, TYPE THW/THHN UNLESS OTHERWISE NOTED.				
DESIGNATION	CONDUCTORS	GROUNDING CONDUCTOR(S)	CONDUIT	NOTES
THREE PHASE THREE WIRE & GROUND FEEDER				
200A	3-250 KCMIL	2	2 1/2"	
225A	3-300 KCMIL	2	3"	
250A	3-350 KCMIL	2	3"	
300A	3-500 KCMIL	2	4"	
350A	(2) 3#4/0	(2) 1	(2) 2 1/2"	
400A	(2) (3-250 KCMIL)	(2) 1	(2) 2 1/2"	
450A	(2) (3-300 KCMIL)	(2) 1/0	(2) 3"	
500A	(2) (3-350 KCMIL)	(2) 1/0	(2) 3"	
600A	(2) (3-500 KCMIL)	(2) 2/0	(2) 4"	
700A	(3) (3-350 KCMIL)	(3) 3/0	(3) 3"	
800A	(3) (3-400 KCMIL)	(3) 3/0	(3) 3"	
1000A	(4) (3-400 KCMIL)	(4) 4/0	(4) 4"	
1200A	(4) (3-500 KCMIL)	(4) 250	(4) 4"	
1600A	(5) (3-600 KCMIL)	(5) 350	(5) 4"	
2000A	(6) (3-600 KCMIL)	(6) 400	(6) 4"	
2500A	(8) (3-600 KCMIL)	(8) 600	(8) 4"	
3000A	(9) (3-600 KCMIL)	(9) 600 KCMIL	(9) 4"	
4000A	(12) (3-600 KCMIL)	(12) 600 KCMIL	(12) 4"	
THREE PHASE FOUR WIRE & GROUND FEEDER				
200Y	4-250 KCMIL	2	3"	
250Y	4-350 KCMIL	2	3"	
300Y	4-500 KCMIL	2	4"	
350Y	(2) 4#4/0	(2) 1	(2) 2 1/2"	
400Y	(2) 4-250 KCMIL	(2) 1	(2) 3"	
450Y	(2) 4-300 KCMIL	(2) 1/0	(2) 3"	
500Y	(2) 4-350 KCMIL	(2) 1/0	(2) 3"	
600Y	(2) 4-500 KCMIL	(2) 2/0	(2) 4"	
700Y	(3) 4-500 KCMIL	(3) 3/0	(3) 3"	
800Y	(3) 4-400 KCMIL	(3) 3/0	(3) 4"	
1000Y	(4) 4-600 KCMIL	(4) 4/0	(4) 4"	
1200Y	(4) 4-500 KCMIL	(4) 250	(4) 4"	
1600Y	(5) 4-600 KCMIL	(5) 350	(5) 4"	
2000Y	(8) 4-600 KCMIL	(8) 400	(8) 4"	
2500Y	(9) 4-600 KCMIL	(9) 600 KCMIL	(9) 4"	
3000Y	(12) 4-600 KCMIL	(12) 600 KCMIL	(12) 4"	
THREE PHASE FOUR WIRE 200% NEUTRAL & GROUND FEEDER				
100Y-E	3#1, 2#1 NEUTRAL	2	2"	
150Y-E	3#3/0, 2#3/0 NEUTRAL	2	2 1/2"	
225Y-E	3-300 KCMIL, 2-300 KCMIL NEUTRAL	2	3"	
350Y-E	(2) 3#4/0, (2) 2#4/0 NEUTRAL	(2) 1	(2) 2 1/2"	
400Y-E	(2) 3-250 KCMIL NEUTRAL	(2) 1	(2) 2 1/2"	
500Y-E	(2) 2-350 KCMIL NEUTRAL	(2) 1/0	(2) 3"	

C2 ALUMINUM FEEDER SCHEDULE

NONE

FAULT CURRENT CALCULATIONS																					
Source		DESCRIPTION										Let-Thru Short Circuit Current	Manual input Let-Thru Short Circuit Current	Assumptions: 1) 600 Volt rated conductors/cables only.							
Fault Point	Equipment	SES Size (Amps)	XFMR Size (kVA)	XFMR mounting	Primary Voltage	Secondary Voltage	Phase	XFMR FLA (Amps)	XFMR Impedance e (Ohms)	XFMR Impedance e adjusted value	Value based on JMEZ available Fault										
SF	MSB	1200	500	PAD	12470	480	3	601		5.75		65000	Value based on JMEZ available Fault								
KNOWN FAULT INFORMATION						SECOND TRANSFORMER IN SYSTEM (DRY-TYPE)						FEEDER/BRANCH CIRCUIT CALCULATION									RESULT
Fault Point	Equipment	Source of Fault	Available Fault Current	Voltage	PHASE	XFMR Size (kVA)	Secondary Voltage	XFMR Impedance e (Ohms)	XFMR Impedance e (user input)	"T" factor	"M" factor	Conductor Type	Conductor Size	3 single conductor s?	Conduit Type	Number of sets	Length to fault	"C" value	"T" factor	"M" factor	Available Short Circuit Current at Fault
F1	MSB	UT1	65000	480	3							C	600	Y	P	3	72	28033	0.201	0.833	54141
F2	DDPH1	MSB	54141	480	3							C	600	Y	P	1	142	28033	0.988	0.503	27228
F3	PRI-DT1A	DDPH1	27228	480	3							C	3/0	Y	S	1	30	12844	0.229	0.814	22151
F4	SEC-DT1A	PRI-DT1A	22151	480	3	112.5	208	1.07		1.75	0.363										18578
F5	DL1A	SEC-DT1A	18578	208	3							C	600	Y	S	1	30	22965	0.202	0.832	15457
F6	MPA	DDPH1	27228	480	3							C	4" Y	S	1	130	15082	0.846	0.542	14751	
F7	PRI-DT2A	DDPH1	27228	480	3							C	3/0	Y	S	1	130	12844	0.993	0.502	13660
F8	SEC-DT2A	PRI-DT2A	13660	480	3	112.5	208	1.07		1.08	0.481										15154
F9	DPLA	SEC-DT2A	15154	208	3							C	600	Y	S	1	30	22965	0.165	0.859	13012

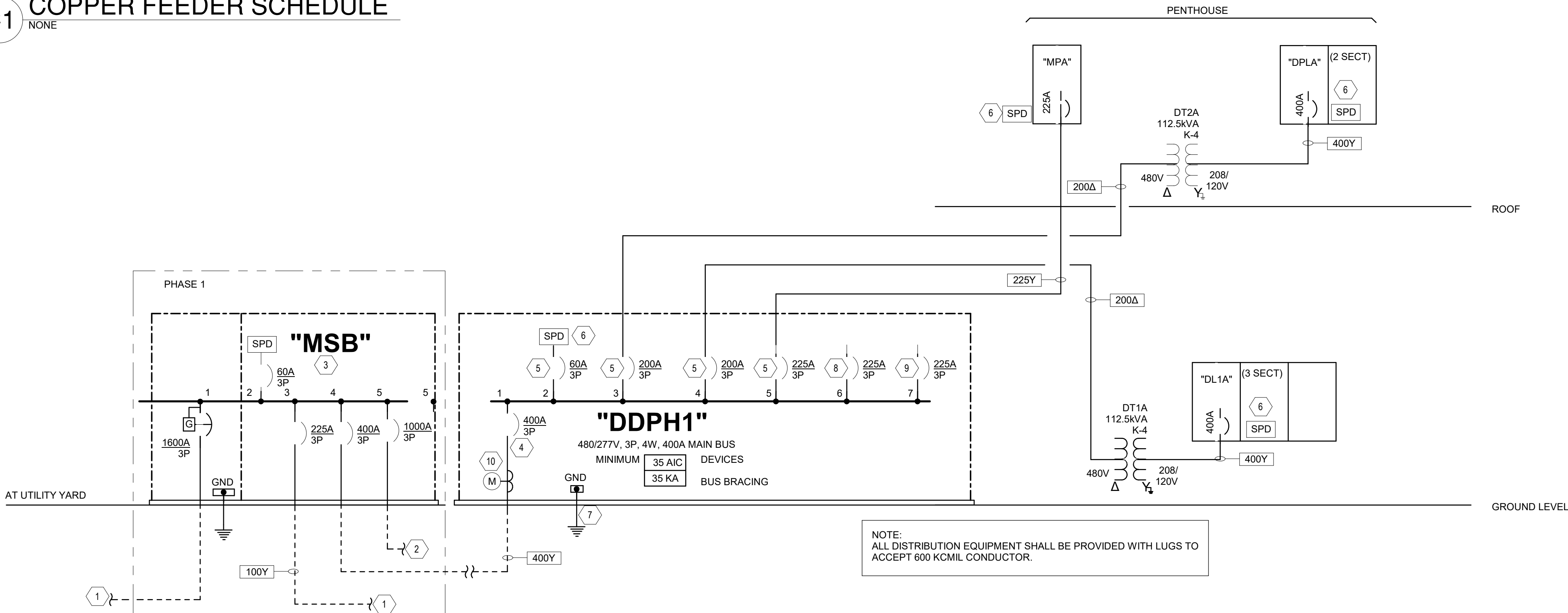
C3 FAULT CURRENT CALCULATION

1" = 1'-0"

VOLTAGE DROP CALCULATIONS															
Project: Dzilh-Na-O-Dith-Hle CS															
Project No: 8226															
Estimator: Joseph Montano															
Calc by: Tacy Austin															
Date: 8-Jun-20															
Maximum voltage drop for a Branch Circuit shall be less than 3% (NEC 210.19.A. FPN 4).															
Maximum voltage drop for a Feeder shall be less than 3% (NEC 215.2. FPN 2).															
Maximum combined voltage drop for a Feeder and Branch shall be less than 5%.															
Source: 2017 NEC															
start end % drop															
480 471.18 1.84%															
Run	Feeder or Branch Circuit Run:	Type of Circuit	Voltage	Phase	Conductor Material	Length (ft)	Size	Load Current (Amps)	Qty Parrallel Runs	Load on feeder	Resistance	Voltage Drop	End Voltage	% Voltage Drop Feeder	% Voltage Drop Branch
1	UT1 to MSB	Feeder	480.0	3	C	72	600	1600	3	533	0.021	1.42	478.58	0.30%	
2	MSB to DDPH1	Feeder	480.0	3	C	142	600	400	1	400	0.021	2.11	477.89	0.44%	
3	DDPH1 to DT1A	Feeder	480.0	3	C	30	3/0	200	1	200	0.077	0.80	479.20	0.17%	
4	DT1A to DL1A	Feeder	208.0	3	C	30	600	400	1	400	0.021	0.44	207.56	0.21%	
5	DDPH1 to MPA	Feeder	480.0	3	C	130	4/0	225	1	225	0.061	3.08	476.92	0.64%	
6	DDPH1 to DT2A	Feeder	480.0	3	C	130	3/0	200	1	200	0.077	3.45	476.55	0.72%	
7	DT2A to DPLA	Feeder	208.0	3	C	30	600	400	1	400	0.021	0.44	207.56	0.21%	

C4 VOLTAGE DROP CALCULATION

1" = 1'-0"



C5 ELECTRICAL ONE-LINE DIAGRAM-DORMITORY

1/8" = 1'-0"

C6 ELECTRICAL SERVICE CALCULATIONS

1" = 1'-0"

Electrical Service Calc.-DCS Dormitory - Project #8226.				
---	--	--	--	--



GENERAL NOTES

- A. INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION AND MAINTENANCE AND TESTING.
- B. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO SERVICE ENTRANCE EQUIPMENT ENCLOSURE.
- C. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZE EQUIVALENT TO EQUIPMENT GROUNDING CONDUCTOR.
- D. BOND ELECTRICAL EQUIPMENT ENCLOSURES TO GROUND BAR USING SAME SIZE CONDUCTOR AS FEEDER EQUIPMENT GROUND CONDUCTOR OR FACT PROVIDED GREEN SCREW.
- E. CALL OUT CED RE-BAR PATTERN FOR PERFORMING ELECTRICAL CONNECTIONS.
- F. COMPLY WITH NFPA 70, 2004 ED.

1. REFER TO ONE-LINE DIAGRAM AND FEEDER SCHEDULE FOR GROUNDING CONDUCTOR SIZE
2. CONNECT GROUNDING ELECTRODE CONDUCTOR TO GROUND ROD
3. FOR EQUIPMENT GROUNDING CONDUCTOR SIZE REFER TO ONE-LINE DIAGRAM AND FEEDER SCHEDULE
4. PROVIDE GROUNDING ELECTRODE CONDUCTOR SIZE BASED ON THE CONDUCTOR SIZE OF THE SECONDARY OF THE TRANSFORMER. SIZE PER NEC 250.68 AND PER SCHEDULE ON THIS SHEET
5. BUILD GROUNDING ELECTRODE USING 6" DIAMETER STEEL OR CONCRETE- ENCASED MAIN GROUNDING ELECTRODE
6. BUILD FOUNDATION AROUND THE ENTIRE PERIMETER OF THE BUILDING LOCATE ELECTRODE IN THE BOTTOM ONE-THIRD OF THE FOUNDATION WITH 12" DIAMETER STEEL OR CONCRETE- ENCASED MAIN GROUNDING ELECTRODE
7. PROVIDE A 1/4" X 4" X 12" MAIN GROUNDING ELECTRODE GROUND BAR FOR EACH CORNER STRUCTURAL STEEL COLUMN AND ALL EXOTHERMIC WELDS
8. PROVIDE A 1/4" X 4" X 12" MAIN GROUNDING ELECTRODE GROUND BAR FOR SERVICE POINT GROUNDING LOCATE AT AN ACCESSIBLE POINT FOR THE SERVICE ENTRANCE EQUIPMENT
9. PROVIDE 1/2" DIAMETER STEEL OR CONCRETE GROUNDING ELECTRODE USING TWO-THOLE COMPRESSION SPACE LUGS THAT MEET IEEE 837 REQUIREMENTS. LABEL EACH CONNECTION
10. PROVIDE 1/2" DIAMETER STEEL OR CONCRETE GROUNDING ELECTRODE USING TWO-THOLE COMPRESSION SPACE LUGS. INSTEAD OF BUILDING STRUCTURAL STEEL IF THE FIRST OVER CURRENT DEVICE OF THE MAIN SEPARATELY DERIVED SYSTEM IS WITHIN SAME ROOM OF THE MAIN
11. BUILD GROUNDING ELECTRODE
12. INSTALL A 1/4" X 4" COPPER TELECOMMUNICATIONS GROUNDING BUSBAR IN EACH TELECOMMUNICATIONS ROOM. CONNECT CABLES TO THE TELECOMMUNICATIONS GROUNDING BUSBAR USING TWO-THOLE COMPRESSION SPACE LUGS. LABEL CONDUCTORS PER ANSI-S-20-007A. LABEL EACH CONNECTION. SEE PLAN FOR BAR LENGTH AND LOCATIONS
13. BUILD JUMPER USED FOR GROUNDING ELECTRODE CONDUCTOR SCHEDULE THIS SHEET
14. BOND HOT WATER PIPE TO COLD WATER PIPE AT EACH WATER HEATER WITH 1/2" BARE COPPER BONDING JUMPER
15. PROVIDE A GROUND RING PER NEC 250.52 A.4
16. PROVIDE A GROUND ROD PER NEC 250.52 A.5
17. BOND ALL METAL PIPING TO GROUNDING ELECTRODE STRUCTURE
18. PROVIDE A GROUNDING ELECTRODE SYSTEM BASED ON 1/4" MIMC
19. MAIN BONDING JUMPER AND/OR SYSTEM BONDING JUMPER SIZE BASED ON CONDUCTOR SIZE OF THE SECONDARY OF THE TRANSFORMER. REFER TO SCHEDULE ON THIS SHEET UNLESS UNBONDING CONDUCTOR SIZE OR EQUIVALENT IS GREATER THAN 1000 KCMIL. IF GREATER THAN 1000 KCMIL (OF 1/2" DIAMETER) OR ALUMINUM OR ALUMINUM-CLAD CABLES GREATER THAN 1000 KCMIL (OF 1/2" DIAMETER)
20. LIGHTNING PROTECTION COUNTERTOP - 4/0 BARE COPPER
21. BOND EACH CORNER STRUCTURAL STEEL AND PERIMETER STRUCTURAL STEEL TO GROUND. PROVIDE 50' OF BRACING TO THE LIGHTNING PROTECTION COUNTERTOP
22. COVER THE EXTERIOR LIGHTNING PROTECTION DOWN CONDUCTOR WITH NON-FLAMMABLE MATERIAL FROM THE FINAL GRADE TO 8' ABOVE FINISHED FLOOR

KEYNOTES

fbt | architects

MAIL: 6501 Americas Pkwy NE., Ste. 300
Albuquerque, NM 87110

PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

B **BRIDGERS
& PAXTON**

4600 C Montgomery Blvd. NE
Albuquerque, NM 87109 | 505.883.4111 | www.bpce.com

ARCHITECT

**Dzilh-Na-O-Dith-Hle -
New Dormitory
Building**

PRICING SET

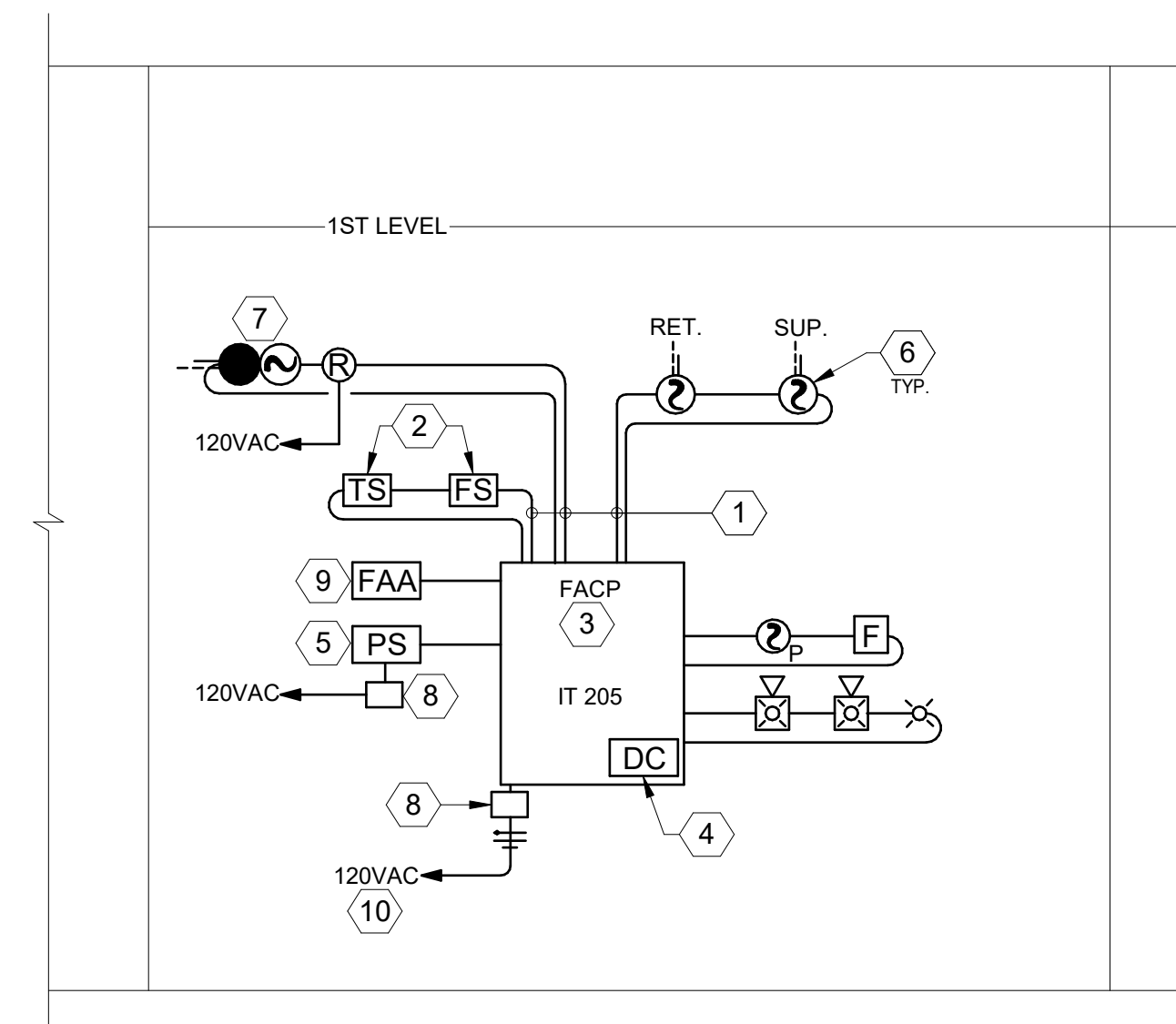
35 Road 7585, Bloomfield, NM
87413

NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
ISSUE:		
DATE:		
PROJECT NO:		751
CAD DWG FILE:		
DRAWN BY:		TIA
CHECKED BY:		JMM

SHEET TITLE
GROUNDING DIAGRAM

E-602



D4 FIRE ALARM RISER DIAGRAM
NO SCALE

GENERAL NOTES

- A. FIRE ALARM DIAGRAM INDICATES GENERAL DIAGRAMMATIC CONNECTIONS ONLY. ALL CONNECTIONS AND INSTALLATION WILL BE PER FIRE ALARM SYSTEM MANUFACTURER'S SHOP DRAWINGS.
- B. DEVICE QUANTITIES ARE NOT INDICATED ON THIS DRAWING. REFER TO "FA" SHEET SERIES FOR ADDITIONAL INFORMATION.
- C. REFER TO SPECIFICATION SECTION 283111 FOR FIRE ALARM SYSTEM REQUIREMENTS.
- D. FIRE ALARM WIRING AND CABLEING SHALL BE IN CONFORMANCE WITH NEC AND TYPE SHALL AS BE RECOMMENDED BY FIRE ALARM SYSTEM MANUFACTURER.
- E. ALL PENETRATIONS THROUGH WALLS, FLOOR, CEILINGS AND ROOF PER ARCHITECTURAL SPECIFICATIONS REQUIREMENTS. SEAL WILL MATCH THE FIRE RATING OF EACH PENETRATION LOCATION.
- F. COMPLY WITH NFPA 70, 2004 ED.

IT IS THE INTENT OF THESE DOCUMENTS TO SHOW A BASIC REPRESENTATION OF THE FIRE ALARM SYSTEM. DEVICES INDICATED ON THESE DOCUMENTS ARE IN NO WAY IMPLIED TO BE COMPREHENSIVE OF THE FINAL DESIGN. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO PROVIDE A DESIGN/BUILD FIRE ALARM SYSTEM BASED UPON A THOROUGH REVIEW OF ALL CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO PROVIDE A FIRE ALARM SYSTEM WHICH COMPLY, MEETS THE REQUIREMENTS OF THE AHJ AND COMPREHENSIVELY COVERS AND INCLUDES ALL NECESSARY PARTS AND LABOR ASSOCIATED WITH OTHER TRADES AND SYSTEMS IMPACTING THE FIRE ALARM SYSTEM. NO CHANGE ORDERS SHALL BE APPROVED FOR THE BASE SCOPE OF WORK.

ENTIRE FIRE ALARM SYSTEM WILL BE IN RACEWAYS; NO EXCEPTIONS!

KEYNOTES

1. MINIMUM 3/4" CONDUIT AND FIRE ALARM CABLING AS REQUIRED BY THE FIRE ALARM MANUFACTURER.
2. INDEPENDENTLY SOURCE EACH FLOW AND TAMP SWITCH WITH AN ADDRESSABLE MODULE. REFER TO FIRE PROTECTION PLUMBING PLANS FOR EACH LOCATION.
3. FIRE ALARM CONTROL PANEL (FACP) WILL BE FACTORY MANUFACTURED, UNLabeled AND FIELD WIRING WILL BE THE RESPONSIBILITY OF THE INSTALLER. THE FLOOR OR AREA IT SERVES. INTELLIGENT CIRCUITS AS REQUIRED OR INDEPENDENT OPERATION. POWER SUPPLIES AND STANDBY BATTERIES WILL BE PROVIDED AT EACH LOCATION.
4. DIGITAL COMMUNICATOR. CONNECTS TO TELEPHONE TERMINAL BOARD FOR REMOTE COMMUNICATION TO FIRST RESPONDERS AND/OR OWNERS SECURITY REPRESENTATIVE.
5. WHERE POWER SUPPLIES (PS) ARE INSTALLED OUTSIDE OF FAC/PCAT, CONTRACTOR WILL PROVIDE POWER CIRCUIT TO UNITS FROM NEAREST PANEL.
6. CONTRACTOR TO COORDINATE THIS REQUIREMENT WITH FIRE ALARM INSTALLER AT TIME OF SUBMITTALS TO VERIFY NEED.
7. SMOKE DETECTOR OR FUSION BY DIVISION 28. INSTALLED IN GRID BY DIVISION 23. CONNECTED, WIRED AND TESTED BY DIVISION 28. REFERENCE MECHANICAL CONTROL DIAGRAMS FOR MECHANICAL INTERCONNECTIONS. PROVIDE DETECTORS IN NEW AND EXISTING UNITS WHERE 200CPM AND ABOVE EXIST. INSTALL PER DIVISION 28.
8. FIRE SMOKE DAMPER, TYPICAL 120VAC VIA FIRE ALARM ADDRESSABLE LABEL.
9. PROVIDE SURGE PROTECTION FOR CIRCUIT TO FIRE ALARM PANEL.
10. PROVIDE 100% FIELD AND VISUAL TESTING OF ALL TESTS FOR POST-INSTALLATION INFORMATION. PROVIDE 3/4" CONDUIT FOR FAC CONNECTION.
11. REFER TO SHEET SERIES "SP" FOR CIRCUITS SERVING THIS FUNCTION.



CONSULTANT



ARCHITECT

Dzilth-Na-O-Dith-Hle - New Dormitory Building

PRICING SET

35 Road 7585, Bloomfield, NM
87413

NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
ISSUE:		
DATE:		
PROJECT NO:	751	
CAD DWG FILE:		
DRAWN BY:		AMH
CHECKED BY:		JMM

SHEET TITLE

ELECTRICAL FIRE RISER DIAGRAM

E-603

LIGHTING SEQUENCE OF OPERATION

- A1. BEDROOMS (GRADES 4-12):
1. ROOM LIGHTING WILL BE ENABLED AND DISABLED BY A SWITCH LOCATED AT THE CONTROL DESK.
 2. SWITCH WILL CONTROL LIGHTING IN BEDROOMS ON AND OFF PER SCHEDULE OF THE DORM PERSONNEL.
 3. PROVIDE LIGHTING CONTACTOR IN ELECTRICAL ROOM FOR THE MULTIPLE CIRCUITS IN BEDROOMS.
- A2. HONORS BEDROOM:
1. ROOM LIGHTING WILL BE ENABLED AND DISABLED BY A SINGLE PILOT LIGHT TOGGLE SWITCH ON THE OUTSIDE OF THE ROOM.
- A3. ISOLATION BEDROOM:
1. ROOM LIGHTING WILL BE ENABLED AND DISABLED BY A SINGLE TOGGLE SWITCH IN THE ROOM.
 2. SWITCH WILL CONTROL LIGHTING IN BEDROOMS ON AND OFF PER SCHEDULE OF THE DORM PERSONNEL.
 3. PROVIDE LIGHTING CONTACTOR IN ELECTRICAL ROOM FOR THE MULTIPLE CIRCUITS IN BEDROOMS.
- A4. BEDROOMS (GRADES 1-3):
1. ROOM LIGHTING WILL BE ENABLED AND DISABLED BY A SWITCH LOCATED AT THE CONTROL DESK.
 2. SWITCH WILL CONTROL LIGHTING IN BEDROOMS ON AND OFF PER SCHEDULE OF THE DORM PERSONNEL.
 3. PROVIDE LIGHTING CONTACTOR IN ELECTRICAL ROOM FOR THE MULTIPLE CIRCUITS IN BEDROOMS.
- A5. RESTROOMS (GRADES 1-3):
1. UNOCCUPIED MODE:
WHEN ROOM IS UNOCCUPIED, ALL LIGHTING IN ROOM SHALL BE DISABLED AND DE-ENERGIZED BY OCCUPANCY SENSOR(S) IN ROOM.
 2. OCCUPIED MODE:
 - a. LIGHTING IN ROOM WILL BE CONTROLLED WITH A KEYSWITCH AS YOU ENTER ROOM AND WILL BE LEFT IN THE ON POSITION.
 - b. LIGHTING CONTROL WILL BE DURING THE DAY WILL BE VIA OCCUPANCY SENSOR AND WILL TURN LIGHTING ON TO 100% DURING DAY USE.
 - c. LIGHTING CONTROL AT NIGHT TIME, DURING SLEEPING HOURS, WILL BE VIA OCCUPANCY SENSOR AND WILL TURN ALL LIGHTING TO 50% DURING USE.
 3. PROVIDE THE FOLLOWING WATTS/STOPPER DLM SYSTEM DEVICES IN ROOM:
 - a. ROOM CONTROLLER SERIES LMRC RATED FOR ROOM PROGRAMMING.
 - b. PROVIDE A DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR TO COVER ENTRY AND ODD SHAPED CORNERS IN ROOMS.
- B. OFFICES, RECEPTION:
1. UNOCCUPIED MODE:
WHEN ROOM IS UNOCCUPIED, ALL LIGHTING IN ROOM SHALL BE DISABLED AND DE-ENERGIZED BY VACANCY SENSOR(S) IN ROOM.
 2. OCCUPIED MODE:
 - a. LIGHTING CONTROL IN ROOM WILL BE ENABLED BY PUSH BUTTON SWITCHES AT ENTRY TO ROOM. NO LUMINAIRES WILL AUTOMATICALLY ENERGIZE.
 - b. DURING OCCUPANCY A SINGLE DIMMING ON/OFF SWITCH WILL CONTROL ALL LUMINAIRES IN ROOM.
 3. WHEN PERSONNEL LEAVE THE ROOM THEY CAN EITHER TURN LIGHTS OFF WITH SWITCH OR VACENCY SENSOR WILL BE PROGRAMMED TO TURN OFF ALL LUMINAIRES IN ROOM AUTOMATICALLY AFTER SET PERIOD OF TIME SET BY OWNER. AT A MINIMUM FACTORY SETTINGS WILL BE APPLIED IF NO OWNER INPUT IS PROVIDED AT TIME OF PROGRAMMING IN FIELD. SYSTEM WILL RESET TO UNOCCUPIED MODE.
 4. PROVIDE THE FOLLOWING WATTS/STOPPER DLM SYSTEM DEVICES IN ROOM:
 - a. ROOM CONTROLLER SERVES LMRC RATED FOR PROGRAMMING CONTROL.
 - b. DUAL TECHNOLOGY VACANCY SENSOR SERIES LMDC.
 - c. SINGLE OUTLET ON/OFF DIMMING DIGITAL SWITCH SERIES LMDC.
- C. FACULTY LOUNGE/WORKROOM, GROUP STUDY, SEMINAR, RECEPTION COVE:
1. UNOCCUPIED MODE:
WHEN ROOM IS UNOCCUPIED, ALL LIGHTING IN ROOM WILL BE DISABLED AND DE-ENERGIZED BY VACANCY SENSOR(S) IN ROOM.
 2. OCCUPIED MODE:
 - a. LIGHTING CONTROL IN ROOM WILL BE ENABLED BY PUSH BUTTON SWITCHES AT ENTRY TO ROOM. NO LUMINAIRES WILL AUTOMATICALLY ENERGIZE.
 - b. DURING OCCUPANCY, A SINGLE OUTLET, SENSOR/DIMMING/ON/OFF SWITCH WILL CONTROL ALL LUMINAIRES IN ROOM.
 3. WHEN PERSONNEL LEAVE THE ROOM THEY CAN EITHER TURN LIGHTS OFF WITH SWITCH OR VACENCY SENSOR WILL BE PROGRAMMED TO TURN OFF ALL LUMINAIRES IN ROOM AUTOMATICALLY AFTER SET PERIOD OF TIME SET BY OWNER. AT A MINIMUM FACTORY SETTINGS WILL BE APPLIED IF NO OWNER INPUT IS PROVIDED AT TIME OF PROGRAMMING IN FIELD. SYSTEM WILL RESET TO UNOCCUPIED MODE.
 4. PROVIDE THE FOLLOWING WATTS/STOPPER SYSTEM DEVICES IN ROOM:
 - a. SINGLE OUTLET ON/OFF/DIMMER/ VACANCY DIGITAL SWITCH SERIES LMDC.

ELECTRICAL CONNECTIONS FOR MECHANICAL EQUIPMENT SCHEDULE NOTES:

- A. STARTER, CONTROL SYSTEM AND DISCONNECTING MEANS FOR UNIT WILL BE PROVIDED BY DIVISION 23. CONTRACTOR WILL HAVE ONE POINT OF ELECTRICAL CONNECTION. FOR VFD OR CONTROL EQUIPMENT INFORMATION, REFER TO SHEET SERIES M-700.
- B. RACEWAY SYSTEM AND CONDUCTORS FOR CONTROLS WILL BE PROVIDED BY DIVISION 26 UNLESS SPECIFICALLY CALLED OUT TO BE PROVIDED BY OTHER SECTIONS OF THESE DOCUMENTS. REFER TO SHEET SERIES "M" FOR CONTROL DIAGRAMS AND ALSO REFER TO SPECIFICATION SECTION 230549.
- C. SIZE FUSES PER MANUFACTURER'S RECOMMENDATIONS OR A MINIMUM OF 1.25% OF UNIT FLA.
- D. STARTER, CONTROL SYSTEM FOR UNIT WILL BE PROVIDED BY DIVISION 23. CONTRACTOR WILL PROVIDE DISCONNECTING MEANS AND HAVE ONE POINT OF ELECTRICAL CONNECTION. FOR CONTROL EQUIPMENT INFORMATION, REFER TO SHEET SERIES M-700.
- E. CONTRACTOR WILL HAVE DIV 28 PROVIDE DUCT DETECTORS FOR UNITS SUPPLY AND RETURN SECTIONS AS REQUIRED, INSTALLED BY DIVISION 23. WIRED AND CONNECTED BY DIVISION 26/28. CONTROL WIRING BY DIVISION 23.

ELECTRICAL CONNECTIONS FOR MECHANICAL EQUIPMENT SCHEDULE

EQUIPMENT NUMBER	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	BRANCH CIRCUIT CONDUCTOR DESCRIPTION	CONDUIT SIZE	MOTOR STARTER CHARACTERISTICS						DISCONNECT SWITCH CHARACTERISTICS					KEY NOTE	
						STARTER TYPE	STARTER SIZE	OFF/AUTO OR HOA	PILOT LIGHT		EXTRA CONTACTS		VOLTS	FRAME AMPS	FUSE SIZE	SOLID NEUT / GND LUG		NEMA RATING
									RED	GREEN	NO	NC						
ACU-1	CONDENSING UNIT	480 V	3	3#8 & 1#10 GND	1							600 V						
CU-1	CONDENSING UNIT	208 V	1	3#10 & 1#10 GND	3/4"							250 V	30				3R/1	B,C,D
CU-2	CONDENSING UNIT	208 V	1	3#10 & 1#10 GND	3/4"							250 V	30				3R/1	B,C,D
EUH-1	ELECTRIC UNIT HEATER	208 V	1	3#8 & 1#10 GND	1							250 V					1	B,D
EUH-2	ELECTRIC UNIT HEATER	208 V	1	3#8 & 1#10 GND	1							250 V						B,D
P-3/VFD-1	PUMP	480 V	3	4#12 & 1#12 GND	3/4"							600 V						A,B
P-4/VFD-2	PUMP	480 V	3	4#12 & 1#12 GND	3/4"							600 V						A,B
VFD-3-AHU-1 SA	AIR HANDLING UNIT EXHAUST FAN	480 V	3	4#12 & 1#12 GND	3/4"							600 V						A,B,E
VFD-4-AHU-1 SA	AIR HANDLING UNIT EXHAUST FAN	480 V	3	4#12 & 1#12 GND	3/4"							600 V						A,B,E
VFD-5-AHU-1 EF	AIR HANDLING UNIT EXHAUST FAN	480 V	3	4#12 & 1#12 GND	3/4"							600 V						A,B,E
VFD-6-AHU-1 EF	AIR HANDLING UNIT EXHAUST FAN	480 V	3	4#12 & 1#12 GND	3/4"							600 V						A,B,E

BATTERY INVERTER SCHEDULE

INVERTER NAME	DESCRIPTION	VOLTAGE	MANUFACTURER / MODEL	NOTES
BIA	500VA BATTERY INVERTER	120V	LVS #CEPS-A-1000-120-XX EVENLITE #ILM-1000-1P-B-XK3-XX DUALITE #DLS-1000-277-X-277-20-XX-X MYERS #1-EM-1-S-X-277-20-XX-XXXX-XXX	1.2

LUMINAIRE SCHEDULE NOTES:

1. MANUFACTURER'S CATALOG NUMBERS REPRESENT MANUFACTURER SERIES. SHOP DRAWING SUBMITTALS WILL INCLUDE ALL PART NUMBERS REPRESENTING ALL ITEMS OF THIS LUMINAIRE SCHEDULE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ORDER LUMINAIRES TO INCLUDE ALL PARTS INDICATED ON SCHEDULE FOR EACH LUMINAIRE. SUBMITTAL WILL CALL OUT EACH PART CLEARLY.
2. LUMINAIRE REQUIRES MOUNTING COORDINATION WITH ARCHITECT PRIOR TO COMMENCEMENT OF ANY WORK. THIS LUMINAIRE MAY REQUIRE A HIGHER OR LOWER MOUNTING FROM THAT PROVIDED ON THIS SCHEDULE OR NOTES ON PLAN DUE TO ARCHITECTURAL REQUIREMENTS OR CONSTRUCTION CONDITIONS.
3. ALL LUMINAIRES ON THIS LUMINAIRE SCHEDULE ARE APPROVED FOR BID ON THIS PROJECT. IF A LUMINAIRE IS SUBMITTED THAT IS NOT ON THIS SCHEDULE, IT WILL BE REJECTED.
4. SHOULD ANY LUMINAIRE BE NOT AVAILABLE AT TIME OF SUBMITTAL, CONTRACTOR WILL USE ONE OF THE OTHER LUMINAIRES INDICATED IN EACH TYPE FOR REPLACEMENT. NO OTHERS WILL BE ACCEPTED.

ELECTRICAL LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	VOLTS	MOUNTING	LAMPS	BALLAST TYPE	EM. BAT. PK.	LENS	MANUFACTURER/MODEL	NOTES
A1F	1' x 4' ARCHITECTURAL LED HIGH ENERGY EFFICIENT LUMINAIRE. RECESSED, LOW PROFILE.	MULTI TAP (UNV.) (120V)	RECESSED GYP. BOARD	LED, 4000K, 40 MAX WATTS, 3900 MINIMUM DELIVERED LUMENS	LED DRIVER 0-10V DIMMING	NONE	WHITE ACRYLIC	DAY-BRITE #1-FXP-45L-840-4-DS-UNV-DIM-FMA14 LITHONIA #EPANL 1X4-4000LM-80CRI-40K-MIN10-ZT-MVOLT-DGA14 CREE #C-WR-B-FF14-40L-40K-WH METALUX #14FP4240C-DF-14W-U	1,3,4
A2	2' x 2' ARCHITECTURAL LED HIGH ENERGY EFFICIENT LUMINAIRE. RECESSED, LOW PROFILE.	MULTI TAP (UNV.) (120V)	RECESSED T-BAR	LED, 4000K, 34 MAX WATTS, 3400 MINIMUM DELIVERED LUMENS	LED DRIVER 0-10V DIMMING	NONE	WHITE ACRYLIC	DAY-BRITE #2-FXP-38L-840-2-DS-UNV-DIM LITHONIA #EPANL 2X2-3400LM-80CRI-40K-MIN10-ZT-MVOLT ELITE #22-FPL1-LED-3000L-DIM10-MVOLT-40K-85 METALUX #22FP3240C	1,3,4
B	4' GENERAL PURPOSE LED STRIP FIXTURE, DIE FORMED STEEL HOUSING, BAKED WHITE ENAMEL FINISH, WITH DIFFUSING LENS.	MULTI TAP (UNV.) (120V)	WALL MOUNTED AT 8'-0" AFF OR SURFACE MOUNTED TO CEILING OR STEM MOUNTED SO BOTTOM OF FIXTURE IS AT 10'-0"	LED, 4000K, 57 MAX WATTS, 4700 MINIMUM DELIVERED LUMENS	LED DRIVER	NONE	FROSTED ACRYLIC	DAY-BRITE #FSS-4-55L-840-UNV-DIM LITHONIA #ZL1N-L48-5000LM-FST-MVOLT-40K 90CRI-WH COLUMBIA #LCL4-40-ML-EDU METALUX #ASNLND-LD5-47SL-LW-UNV-L840-CD1-U	1,2,3,4
BR	4' LINEAR ROUND ADJUSTABLE LED, ARCHITECTUAL HIGH EFFICIENCY COMPACT HOUSING	MULTI TAP (UNV.) (120V)	SURFACE WALL MOUNTED AS DIRECTED BY ARCHITECTURAL ELEVATIONS	LED, 4000K, 57 MAX WATTS, 4896 DELIVERED LUMENS	LED DRIVER 0-10V DIMMING	NONE	CLEAR ACRYLIC	PINNACLE #M-WHE-340VHO-4-WHXX-U-OLS-1 LUMENWERX#AXLWAD-AP0-LED-80-1200-40-4'-UNV-D5-1-X-X-FINISH PRUDENTIAL # MW-LED40-HO-4'-XXX-SC-UNV-XXX-DM01 AMETRIX # ASYX-X-L4-X-U-F-L40-1-UNV-X-X CORELITE #CTW-F-5050-50L-840-1-D-UNV-STD-XX-WM-4	1,3,4
BV	4' EXTREME ENVIRONMENT LED HIGH ENERGY EFFICIENT LOW PROFILE ENCLOSED LUMINAIRE. INDOOR /OUTDOOR VANDAL RESISTANT.	MULTI TAP (UNV.) (120V)	WALL MOUNTED AT 8'-6" AFF OR SURFACE MOUNTED TO CEILING OR STEM MOUNTED SO BOTTOM OF FIXTURE IS AT 8'-2"	LED, 4000K, 39 MAX WATTS, 4300 MINIMUM DELIVERED LUMENS	LED DRIVER	NONE	POLYCARB ONATE LENS	DAY-BRITE #DWPE-43L-840-4-UNV LITHONIA #FEM-L48-4000LM-IMAF1-MD-MVOLT-GZ10-35K-80CRI COLUMBIA #LEM4-40LW-RFP-EDU METALUX #4VT2-LD4-4-DR-UNV-L840-CD1-WL-U	1,2,3,4
C8	6" ROUND ARCHITECTURAL LED DOWN LIGHT. WET LOCATION RATED. HIGH ENERGY EFFICIENT.	MULTI TAP (UNV.) (120V)	RECESSED CEILING	LED, 4000K, 20 MAX WATTS, 1400 MINIMUM DELIVERED LUMENS	LED DRIVER 0-10V DIMMING	NONE	FROSTED GLASS LENS	LIGHTOLIER #6RN/P6R-DL-15-840-CD-Z10-U LDN6 35/15 L06AR LSS MVOLT GZ10 WL LITHONIA #LDN6 40/15 L06AR LSS MVOLT GZ10 WL PRESCOLITE #LF6SL-DM1-6LFSL-15L-40K8-SS-B24 HALO #HC6-15-D010-HM6-12-840-61WDH	1,3,4
C6E	6" ROUND ARCHITECTURAL LED DOWN LIGHT. WET LOCATION RATED. HIGH ENERGY EFFICIENT.	MULTI TAP (UNV.) (120V)	RECESSED CEILING	LED, 4000K, 20 MAX WATTS, 1400 MINIMUM DELIVERED LUMENS	LED DRIVER 0-10V DIMMING	INTEGRAL UL924 NICAD BATTERY	FROSTED GLASS LENS	LIGHTOLIER #6RNE/M/P6R-DL-15-840-CD-Z10-U LDN6 35/15 L06AR LSS MVOLT GZ10 WL PEACHTREE #BBLRD 18 40K-90-SH-RPG-DMLV1-WL-EM1-1-277 PRESCOLITE #LF6SL-DM1-EMR-6LFSL-15L-40K8-SS-B24 HALO #HC6-15-D010-IE/M7-HM6-12-840-61VDH	1,3,4
D1S	WALL MOUNTED 4' LONG X 8.25" X 1.75", SQUARE HOUSING, INDIRECT 70/DIRECT 30, LED LUMINAIRE WITH METAL REFLECTOR, AND COLD-ROLLED STEEL HOUSING. COORDINATE FINISH COLOR WITH ARCHITECT AT SUBMITTAL REVIEW. FLAT ENDS.	MULTI TAP (UNV.) (120V)	WALL MOUNTED AT 7'-0" AFF	LED, 4000K, 61 MAX WATTS, 2200 DELIVERED LUMENS	LED DRIVER 0-10V DIMMING	NONE	SOFTSHINE LENS	CORELITE #DW1-WA-2-L40-1-D-UNV-SU-WA-4-STD-XX SOLERA #CURVE-48-30LED-3875-4000K-UNV-WM-MV-U/D-DM-XX VISA #CV1704-L4-40K-HMVOLT1-CBA TECH LTC. #700BCSPAN-4-X-LED830-277-MOD4000K	1,3,4
E1	LED EXIT SIGN, EMERGENCY, DIE CAST ALUMINUM HOUSING WITH GREEN CHARACTERS, BLACK HOUSING AND BRUSHED ALUMINUM FACE (SINGLE FACE AND DIRECTIONAL ARROWS AS INDICATED ON LIGHTING PLANS). MEETS UL LISTINGS FOR THIS TYPE OF LUMINAIRE. WITH SELF-CONTAINED, NICKEL-CADMIUM EMERGENCY BATTERY PACK.	MULTI TAP (UNV.) (120V)	SURFACE CEILING OR WALL AT 8'-6" AFF UNLESS OTHERWISE NOTED ON LIGHTING PLANS.	GREEN LED, 3 MAX WATTS	LED DRIVER	NICKEL CADMIUM PER MFG.	BRUSHED ALUMINUM FACE	EVENLITE #CCDS-EM-G-1-AB LITHONIA #LE-S-1-G-ELN DUALLITE #SE-S-G-BNE SURE-LITES #CX7-1-G	1,2
E2	LED EXIT SIGN, EMERGENCY, DIE CAST ALUMINUM HOUSING WITH GREEN CHARACTERS, BLACK HOUSING AND BRUSHED ALUMINUM FACE (DOUBLE FACE AND DIRECTIONAL ARROWS AS INDICATED ON LIGHTING PLANS). MEETS UL LISTINGS FOR THIS TYPE OF LUMINAIRE. WITH SELF-CONTAINED, NICKEL-CADMIUM EMERGENCY BATTERY PACK.	MULTI TAP (UNV.) (120V)	SURFACE CEILING OR WALL AT 8'-6" AFF UNLESS OTHERWISE NOTED ON LIGHTING PLANS.	GREEN LED, 3 MAX WATTS	LED DRIVER	NICKEL CADMIUM PER MFG.	BRUSHED ALUMINUM FACE	EVENLITE #CCDS-EM-G-1-AB LITHONIA #LE-S-1-G-ELN DUALLITE #SE-S-G-BNE SURE-LITES #CX7-1-G	1,2,3,4
EM	CONTEMPORARY, LOW PROFILE EMERGENCY BATTERY PACK FIXTURE WITH AN INJECTED MOLDED, HIGH IMPACT, UV STABILIZED THERMOPLASTIC HOUSING, 6 V LEAD CALCIUM BATTERY. ADA COMPLIANT, ADJUSTABLE LAMP SOCKETS, SHORT CIRCUIT AND BROWNOUT PROTECTION.	MULTI TAP (UNV.) (120V)	SURFACE 8'-6" AFF UNLESS OTHERWISE NOTED ON LIGHTING PLANS.	(2) TWO LED, 4 MAX WATTS	LED DRIVER	NICKEL CADMIUM PER MFG.	ACRYLIC FRESNAL	SURELITE #LEM2 LITHONIA #ELM2-LED EVENLITE #TCL-2-W DUALLITE #EV-2	1,2,3,4
F	SLIM, LOW PROFILE, FULLY GASKETED DIE CAST ENCLOSURE, IP65 WET LOCATION RATED, HIGH IMPACT UV RESISTANT POLYCARBONATE LENS, FULL CUT OFF. INTEGRAL PHOTOCELL AND BATTERY BACKUP. COORDINATE FINISH COLOR WITH ARCHITECT AT SUBMITTAL OF LUMINAIRES.	MULTI TAP (UNV.) (120V)	EXTERIOR WALL SURFACE MOUNT AT 9'-0" AFF.	LED, 4000K, 30 MAX WATTS, 2900 MINIMUM DELIVERED LUMENS	LED DRIVER	NONE	IMPACT RESISTANT UV RESISTANT POLYCARB ONATE	ECLIPSE LIGHTING #DK-E-M-30W-4K-EBU-XX LITHONIA #WDGE2 LED-P3-40K-90CRI-VF-MVOLT-SRM-XXX TRACELITE #WLZ2-4-4K-XX LUMARK #AXCS2A	1,2,3,4
FE	SLIM, LOW PROFILE, FULLY GASKETED DIE CAST ENCLOSURE, IP65 WET LOCATION RATED, HIGH IMPACT UV RESISTANT POLYCARBONATE LENS, FULL CUT OFF. INTEGRAL PHOTOCELL AND BATTERY BACKUP. COORDINATE FINISH COLOR WITH ARCHITECT AT SUBMITTAL OF LUMINAIRES.	MULTI TAP (UNV.) (120V)	EXTERIOR WALL SURFACE MOUNT AT 9'-0" AFF.	LED, 4000K, 30 MAX WATTS, 2900 MINIMUM DELIVERED LUMENS	LED DRIVER	INTEGRAL UL924 NICAD BATTERY	IMPACT RESISTANT UV RESISTANT POLYCARB ONATE	ECLIPSE LIGHTING #DK-E-M-30W-4K-EBU-XX LITHONIA #WDGE2 LED-P3-40K-90CRI-MVOLT-SRM-E10WH-XXX TRACELITE #WLZ2-4-4K-XX LUMARK #AXCS2A-CBP	1,2,3,4
LC	6'-6" LENGTH CORNER LED STRIP LIGHT WITH ANGLED HOUSING TO BE INSTALLED IN LIGHT SOFFIT FOR GLOW AFFECT TO BE SEEN FROM CORRIDOR. REFER TO ELECTRICAL LIGHTING PLANS FOR ADDITIONAL INFORMATION. COORDINATE FINISH COLOR WITH ARCHITECT AT SUBMITTAL OF LUMINAIRES.	MULTI TAP (UNV.) 120V	MOUNT INSIDE OF LIGHT SOFFIT. REFER TO ARCHITECT'S LIGHT SHELF DETAILS D5 ON SHEET A-120 ON SCHOOL PORTION.	LED, 4000K, 3.5 MAX WATTS PER FOOT, 250 MINIMUM DELIVERED LUMENS PER FOOT	LED DRIVER 0-10V DIMMING TO 1%	NONE	FROSTED HIGH-IMPA CT ACRYLIC (EXTRA DIFFUSE)	CORE#ALU-CN-78-CL-LSM-30-XX	1,3,4
LC4	4'-0" LENGTH CORNER LED STRIP LIGHT WITH ANGLED HOUSING TO BE INSTALLED IN LIGHT SOFFIT FOR GLOW AFFECT TO BE SEEN FROM CORRIDOR. REFER TO ELECTRICAL LIGHTING PLANS FOR ADDITIONAL INFORMATION. COORDINATE FINISH COLOR WITH ARCHITECT AT SUBMITTAL OF LUMINAIRES.	MULTI TAP (UNV.) 120V	MOUNT INSIDE OF LIGHT SOFFIT. REFER TO ARCHITECT'S LIGHT SHELF DETAILS D5 ON SHEET A-120 ON SCHOOL PORTION.	LED, 4000K, 3.5 MAX WATTS PER FOOT, 250 MINIMUM DELIVERED LUMENS PER FOOT	LED DRIVER 0-10V DIMMING TO 1%	NONE	FROSTED HIGH-IMPA CT ACRYLIC (EXTRA DIFFUSE)		1,3,4
N2S2	EXTRUDED ALUMINUM 2" WIDE x 8' LEGNTH LINEAR STATIC WHITE LED LUMINAIRE. EXTRA DIFFUSE LENS, DAMP RATED. COORDINATE FINISH COLOR WITH ARCHITECT AT SUBMITTAL OF LUMINAIRES. LENGTH OF LUMINAIRES AS SHOWN ON EL101.	MULTI TAP (UNV.) (120V)	SURFACE CEILING	LED, 4000K, 400 MINIMUM DELIVERED LUMENS PER FOOT	LED DRIVER 0-10V DIMMING TO 1%	NONE	FROSTED HIGH-IMPA CT ACRYLIC (EXTRA DIFFUSE)		1,3,4
N3S1	EXTRUDED ALUMINUM 3.5" WIDE x 4'-0" LENGTH SURFACE MOUNTED LINEAR STATIC WHITE LED LUMINAIRE. WET RATED. EXTRA DIFFUSE LENS. MUST MEET B.U.G. RATING B4 U2 G2 OR BETTER. COORDINATE FINISH COLOR WITH ARCHITECT AT SUBMITTAL OF LUMINAIRES.	MULTI TAP (UNV.) (120V)	SIDE SURFACE MOUNTED SO THAT BOTTOM OF LUMINAIRE IS FLUSH WITH BOTTOM OF BEAM.	LED, 4000K, 40 MAX WATTS, 3200 MINIMUM DELIVERED LUMENS.	LED DRIVER	NONE	FROSTED HIGH-IMPA CT ACRYLIC (EXTRA DIFFUSE)	PINNACLE #EX3-WET-N-835HO-4'-IND-WAS-U-DD-1-XX	1,3,4
P6	6" PENDANT MOUNTED LED SQUARE HOUSING WITH DIFFUSE CLEAR REFLECTOR.	MULTI TAP (UNV.) (120V)	PENDANT STEM MTD. SEE LIGHTING PLANS FOR MOUNTING HEIGHTS.	LED, 4000K, 30 MAX WATTS, 1800 MINIMUM DELIVERED LUMENS	LED DRIVER 0-10V DIMMING TO 1%	NONE	IMPACT RESISTANT TEMPERED GLASS		1,2,3,4

fbt | architects

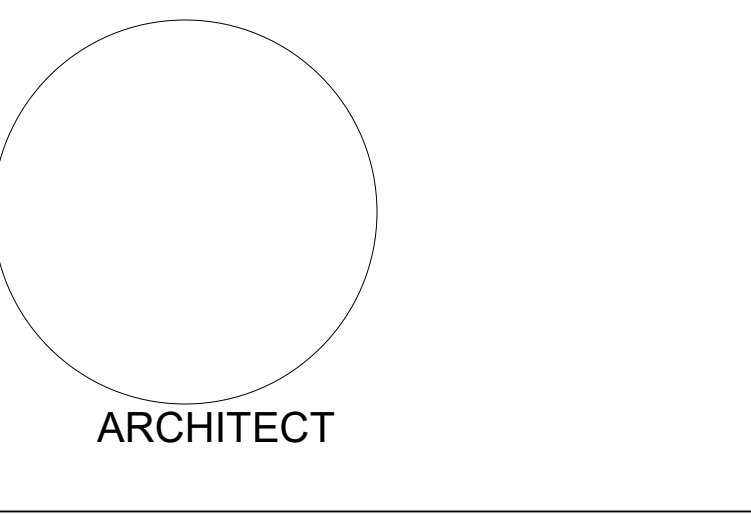
MAIL: 6501 Americas Pkwy NE, Ste. 300
Albuquerque, NM 87110

PHO: 505.883.5200
FAX: 505.884.5390
WEB: www.fbtarch.com

CONSULTANT

B BRIDGERS & PAXTON

4600 C Montgomery Blvd. NE
Albuquerque, NM 87109 | 505.883.4111 | www.bpcoc.com



Dzilth-Na-O-Dith-Hle - New Dormitory Building

PRICING SET

35 Road 7585, Bloomfield, NM 87413

NOVEMBER 10, 2020

MARK	DATE	DESCRIPTION
ISSUE:		
DATE:		
PROJECT NO:		
CAD DWG FILE:		
DRAWN BY:		
CHECKED BY:		

SHEET TITLE

ELECTRICAL SCHEDULES

Branch Panel: MPA												
Location: PENTHOUSE						Volts: 480/277 Wye			A.I.C. Rating: 35,000			
Supply From: DDPH1						Phases: 3			Mains Type: MCB			
Mounting: Surface						Wires: 4			Mains Rating: 225 A			
Enclosure: Type 1						Spaces: 42			MCB Rating: 225 A			
Notes:												
CKT	Circuit Description	Notes	Trip	Poles	A	B	C	Poles	Trip	Notes	Circuit Description	CKT
1	EQP VFD-5-AHU-1 EF		20 A	3	2107... 2107...			3	20 A		EQP VFD-6-AHU-1 EF	2
3	--		--	--		2107... 2107...		--	--		--	4
5	--		--	--			2107... 2107...	--	--		--	6
7	EQP VFD-3-AHU-1 SA		20 A	3	3050... 3050...			3	20 A		EQP VFD-3-AHU-1 SA	8
9	--		--	--		3050... 3050...		--	--		--	10
11	--		--	--			3050... 3050...	--	--		--	12
13	EQP ACU-1		70 A	3	1152... 942 VA			3	20 A		EQP P-3/ VFD-1	14
15	--		--	--		1152... 942 VA		--	--		--	16
17	--		--	--			1152... 942 VA	--	--		--	18
19	EQP P-4/ VFD-2		20 A	3	942 VA 0 VA			3	20 A		SPARE	20
21	--		--	--		942 VA 0 VA		--	--		--	22
23	--		--	--			942 VA 0 VA	--	--		--	24
25	SPARE		20 A	3	0 VA 0 VA			3	20 A		SPARE	26
27	--		--	--		0 VA 0 VA		--	--		--	28
29	--		--	--			0 VA 0 VA	--	--		--	30
31	SPACE ONLY		--	--	0 VA 0 VA			--	--		SPACE ONLY	32
33	SPACE ONLY		--	--		0 VA 0 VA		--	--		SPACE ONLY	34
35	SPACE ONLY		--	--			0 VA 0 VA	--	--		SPACE ONLY	36
37	SPACE ONLY		--	--	0 VA 0 VA			--	--		SPACE ONLY	38
39	SPACE ONLY		--	--		0 VA 0 VA		--	--		SPACE ONLY	40
41	SPACE ONLY		--	--			0 VA 0 VA	--	--		SPACE ONLY	42
Total Load:					23727 VA		23727 VA		23727 VA			
Total Amps:					86 A		86 A		86 A			
Legend:												
Load Classification			Connected Load		Demand Factor		Estimated Demand		Panel Totals			
MTR			71180 VA		100.00%		71180 VA		Total Conn. Load: 71180 VA			
									Total Est. Demand: 71180 VA			
									Total Conn. Current: 86 A			
									Total Est. Demand Current: 86 A			
Notes:												

Branch Panel: DPLA														
Location: PENTHOUSE					Volts: 120/208 Wye					A.I.C. Rating: 18,000				
Supply From: DDPH1 VIA DT1A					Phases: 3					Mains Type: MCB				
Mounting: Surface					Wires: 4					Mains Rating: 400 A				
Enclosure: Type 1					Spaces: 84					MCB Rating: 400 A				
Notes:														
CKT	Circuit Description	Notes	Trip	Poles	A	B	C	Poles	Trip	Notes	Circuit Description	CKT		
1	EQP CUJ-2		20 A	2	1082... 400 VA			1	20 A		EQP TERMINAL UNITS	2		
3	--	--	--	--	1082... 350 VA			1	20 A		EQP TERMINAL UNITS	4		
5	EQP CUJ-1		20 A	2		1082... 400 VA		1	20 A		EQP TERMINAL UNITS	6		
7	--	--	--	--	1082... 0 VA			1	20 A		CON EPO BUTTON MECH 228	8		
9	EQP EF-1		20 A	1		696 VA 540 VA		1	20 A		REC ROOF GENERAL PURPOSE	10		
11	EQP EF-2		20 A	1			696 VA 360 VA	1	20 A		EQP AHU-1 PUMP SWITCH	12		
13	EQP EF-3		20 A	1	696 VA 540 VA			1	20 A		REC ROOF GEN PURPOSE	14		
15	EQP EF-4		20 A	1		696 VA 0 VA		1	20 A		SPARE	16		
17	EQP EF-5		20 A	1			696 VA 1500...	1	20 A		NC LAUNDRY 105- WASHER	18		
19	EQP EUH-1 RM 228		50 A	2	3750... 1500...			1	20 A		NC LAUNDRY 105- WASHER	20		
21	--	--	--	--	3750... 1500...			1	20 A		NC LAUNDRY 105- WASHER	22		
23	EQP EUH-2 PENTHOUSE		50 A	2		3750... 1500...		1	20 A		NC LAUNDRY 105- WASHER	24		
25	--	--	--	--	3750... 2500...			2	40 A		NC LAUNDRY 107- DRYER	26		
27	EQP B-1		20 A	1	1440... 2500...			--	--	--		28		
29	EQP B-2		20 A	1		1440... 2500...		2	40 A		NC LAUNDRY 107- DRYER	30		
31	EQP P-1		20 A	1	276 VA 2500...			--	--	--		32		
33	EQP P-2		20 A	1		276 VA 2500...		2	40 A		NC LAUNDRY 107- DRYER	34		
35	EQP P-5		20 A	1			460 VA 2500...	--	--	--		36		
37	LTG IN PENTHOUSE		20 A	1	132 VA 480 VA			1	20 A		EQP HD-1	38		
39	CORRIDOR 214- EWC		20 A	1		600 VA 2500...		2	40 A		NC LAUNDRY 107- DRYER	40		
41	NC CORR 202, 113.1- FSD		20 A	1			700 VA 2500...	--	--	--		42		
43	NC 202- FSD		20 A	1	550 VA 360 VA			1	20 A		CONT 205- IT	44		
45	REC MECH 228. EXT DOOR 002		20 A	1		720 VA 360 VA		1	20 A		CONT 205- IT	46		
47	CONT 33.2- FREEZER		20 A	1		1000... 360 VA		1	20 A		CONT 205- IT	48		
49	CONT 33.2- REFRIGERATOR		20 A	1	1000... 750 VA			1	20 A		CONT 205- IT FACP	50		
51	NC 33.2- DISHWASHER		20 A	1		1500... 1000...		1	20 A		CONT 205- IT RACK	52		
53	REC KITCHEN 33.2		20 A	1			180 VA 360 VA	1	20 A		CONT 205- IT	54		
55	NC 33.2- EXHAUST HOOD		20 A	1	460 VA 240 VA			1	20 A		MTR TMV-3 DORM 228	56		
57	NC 33.2- STOVE		50 A	2		1250... 350 VA		1	20 A		NC CARD READERS/ LR DEVICE	58		
59	--	--	--	--		1250... 350 VA		1	20 A		NC CARD READERS/ LR DEVICE	60		
61	NC 33.2- MICROWAVE		20 A	1	1500... 168 VA			1	20 A		MTR RCP-5 228	62		
63	REC KITCHEN 33.2		20 A	1		500 VA 804 VA		1	20 A		MTR RCP-6, DWH-4 228	64		
65	REC KITCHEN 33.2		20 A	1			500 VA 804 VA	1	20 A		MTR RCP-7, DWH-3 228	66		
67	REC KITCHEN 33.2		20 A	1	500 VA 0 VA			1	20 A		SPARE	68		
69	SPARE		20 A	2		0 VA 0 VA		2	20 A		SPARE	70		
71	--	--	--	--			0 VA 0 VA	--	--	--		72		
73	SPARE		20 A	1	0 VA 0 VA			1	20 A		SPARE	74		
75	SPARE		20 A	1		0 VA 0 VA		1	20 A		SPARE	76		
77	SPARE		20 A	1			0 VA 0 VA	1	20 A		SPARE	78		
79	SPARE		20 A	1	0 VA 0 VA			1	20 A		SPARE	80		
81	SPARE		20 A	1		0 VA 0 VA		1	20 A		SPARE	82		
83	SPARE		20 A	1			0 VA 0 VA	1	20 A		SPARE	84		
Total Load:			24215 VA		24914 VA		24888 VA							
Total Amps:			202 A		208 A		208 A							
Legend:														
Load Classification			Connected Load		Demand Factor		Estimated Demand		Panel Totals					
NC			8710 VA		100.00%		8710 VA		Total Conn. Load: 74016 VA					
CON			5140 VA		125.00%		6425 VA		Total Est. Demand: 65730 VA					
MTR			30826 VA		100.00%		30826 VA		Total Conn. Current: 205 A					
REC			29208 VA		67.12%		19604 VA		Total Est. Demand Current: 182 A					
LTG			132 VA		125.00%		165 VA							
Notes:														

Branch Panel: DL1A													
Location: ELEC 215 Supply From: DDPH1 VIA DT1A Mounting: Surface Enclosure: Type 1					Volts: 120/208 Wye Phases: 3 Wires: 4 Spaces: 126			A.I.C. Rating: 22,000 Mains Type: MCB Mains Rating: 400 A MCB Rating: 400 A					
Notes:													
CKT	Circuit Description		Notes	Trip	Poles	A	B	C	Poles	Trip	Notes	Circuit Description	CKT
1	REC 1-3 SLEEPING RM 108.1, 108.2			20 A	1	1260...	1260...		1	20 A		REC SLEEPING RM 209, EXT DOOR 004	2
3	REC 1-3 SLEEPING RM 108.1, 108.2			20 A	1		1260...	1080...		1	20 A	REC SLEEPING ROOM 209,211	4
5	NC K-3 BOYS RR 109			20 A	1			720 VA 1080...	1	20 A		REC SLEEPING ROOM 211,213	6
7	REC ROOM 219,220,214			20 A	1	1080...	1260...			1	20 A	REC SLEEPING RM 213, EXT DOOR...	8
9	REC LAUNDRY 105,107,108.1			20 A	1		1080...	1080...		1	20 A	REC SLEEPING ROOM 210	10
11	REC LAUNDRY 105,107			20 A	1			720 VA 900 VA	1	20 A		REC SLEEPING ROOM 210,212	12
13	REC M RR 120, 120.1,103, CORR 102			20 A	1	1080...	1260...		1	20 A		REC SLEEPING RM 208, EXT DOOR 006	14
15	NC BOY'S RR 218			20 A	1		720 VA 720 VA		1	20 A		NC HONORS RR 208A	16
17	SPARE			20 A	1			0 VA 0 VA	1	20 A		SPARE	18
19	SPARE			20 A	1	0 VA 0 VA			1	20 A		SPARE	20
21	SPARE			20 A	1		0 VA 0 VA		1	20 A		SPARE	22
23	SPARE			20 A	1			0 VA 0 VA	1	20 A		SPARE	24
25	REC HONORS RR 223A			20 A	1	360 VA 0 VA			1	20 A		SPARE	26
27	REC HONORS SLEEPING ROOM 223			20 A	1		1080...	0 VA		1	20 A	SPARE	28
29	REC SLEEPING ROOM 225			20 A	1			1080...	540 VA	1	20 A	REC ELEC 215	30
31	REC SLEEPING ROOM 225,227			20 A	1	720 VA 900 VA			1	20 A		REC CORRIDOR 174, ELEC 215, 206	32
33	REC SLEEPING ROOM 227			20 A	1		1080...	720 VA		1	20 A	REC ISOLATION RR 207A	34
35	REC CORR 214, 102, STOR 217, KITCH			20 A	1			1080...	720 VA	1	20 A	REC ROOM 112, 113.1,207	36
37	SPARE			20 A	1	0 VA 1260...				1	20 A	REC 1-3 SLEEPING ROOM 113.1,113.2	38
39	REC SLEEPING RM 226, EXT DOOR 003			20 A	1		1260...	1260...		1	20 A	REC 1-3 SLEEPING ROOM 113.1,113.2	40
41	REC SLEEPING ROOM 226,224			20 A	1			1080...	1500...	1	20 A	NC ROOM 159- WASHER	42
43	REC SLEEPING ROOM 224, 222			20 A	1	1080...	900 VA			1	20 A	REC COUNSELING OFFICE 110	44
45	REC SLEEPING ROOM 22			20 A	1		1080...	2500...		2	40 A	NC ROOM 159- DRYER	46
47	NC CORR 224,214- FSD			20 A	1			750 VA 2500...	--	--	--	--	48
49	NC- FSD			20 A	1	750 VA 1080...			1	20 A		REC STUDY ROOM 102A	50
51	REC CIRC DESK CORR 102, 102B			20 A	1		720 VA 0 VA			1	20 A	SPARE	52
53	REC CIRC DESK CORR 102, 201A, 102B			20 A	1			720 VA 0 VA	1	20 A		SPARE	54
55	REC STUDY ROOM 102B, 201A			20 A	1	720 VA 0 VA			1	20 A		SPARE	56
57	SPARE			20 A	1		0 VA 0 VA			1	20 A	SPARE	58
58	SPARE			20 A	1			0 VA 0 VA	1	20 A		SPARE	60
61	SPARE			20 A	1	0 VA 0 VA			0 VA 0 VA	1	20 A	SPARE	62
63	SPARE			20 A	1		0 VA 900 VA			1	20 A	REC STORAGE 203, 201	64
65	SPARE			20 A	1			0 VA 1800...	1	20 A		CONT STOR 112- REFRIGERATOR	66
67	SPARE			20 A	1	0 VA 1260...				1	20 A	REC 121,103,102,111, EXT DOOR 001	68
69	SPARE			20 A	1		0 VA 720 VA			1	20 A	NC G RR 114	70
71	SPARE			20 A	1			0 VA 720 VA	1	20 A		CONT CORR 202- EWC	72
73	SPARE			20 A	1	0 VA 720 VA				1	20 A	NC FRONT DESK	74
75	SPARE			20 A	1		0 VA 720 VA			1	20 A	REC FRONT DESK	76
77	SPARE			20 A	1			0 VA 360 VA	1	20 A		REC LIVING ROOM 201A, FLOOR	78
79	SPARE			20 A	1	0 VA 360 VA				1	20 A	REC LIVING ROOM 201A, FLOOR	80
81	SPARE			20 A	1		0 VA 0 VA			1	20 A	SPARE	82
83	SPARE			20 A	1			0 VA 0 VA	1	20 A		SPARE	84
85	LTG Rm 209, 211, 213			20 A	1	240 VA 240 VA				1	20 A	LTG Rm 222, 224, 226	86
87	LTG Rm 207, 208, 210, 212			20 A	1		240 VA 244 VA			1	20 A	LTG Rm 220, 223, 225, 227	88
89	LTG Rm 202, 204, 206, 207A, 215, 205,...			20 A	1			796 VA 385 VA	1	20 A		LTG Rm 214, 219, 228	90
91	LTG Rm 33.2, 200, 201, 201A, 203, 217			20 A	1	754 VA 366 VA				1	20 A	LTG Rm 218, 221, 223A	92
93	LTG Rm 201A, 102B, 103, 102A, 101, 100			20 A	1		1152...	356 VA	1	20 A		LTG Rm 105, 105A, 107, 108.1, 108.2	94
95	LTG Rm 110, 112, 113.1, 113.2			20 A	1			350 VA 609 VA	1	20 A		LTG Rm 108, 109.1, 111, 114, 120, 121	96
97	EXT BUILDING MOUNTED LIGHTING			20 A	1	560 VA 660 VA				1	20 A	EXT BUILDING MOUNTED LIGHTING	98
99	SPACE		--	--	--		0 VA 0 VA		--	--	--	SPACE	100
101	SPACE		--	--	--			0 VA 0 VA	--	--	--	SPACE	102
103	SPACE		--	--	--	0 VA 0 VA			--	--	--	SPACE	104
105	SPACE		--	--	--		0 VA 0 VA		--	--	--	SPACE	106
107	SPACE		--	--	--			0 VA 0 VA	--	--	--	SPACE	108
109	SPACE		--	--	--	0 VA 0 VA			--	--	--	SPACE	110
111	SPACE		--	--	--		0 VA 0 VA		--	--	--	SPACE	112
113	SPACE		--	--	--			0 VA 0 VA	--	--	--	SPACE	114
115	SPACE		--	--	--	0 VA 0 VA			--	--	--	SPACE	116
117	SPACE		--	--	--		0 VA 0 VA		--	--	--	SPACE	118
119	SPACE		--	--	--			0 VA 0 VA	--	--	--	SPACE	120
121	SPACE		--	--	--	0 VA 0 VA			--	--	--	SPACE	122
123	SPACE		--	--	--		0 VA 0 VA		--	--	--	SPACE	124
125	SPACE		--	--	--			0 VA 0 VA	--	--	--	SPACE	126
				Total Load:		20130 VA		19972 VA		18410 VA			
				Total Amps:		170 A		168 A		153 A			
Legend:													
Load Classification				Connected Load		Demand Factor		Estimated Demand		Panel Totals			
NC				9060 VA		100.00%		9060 VA					
CON				2520 VA		125.000%		3150 VA		Total Conn. Load: 58512 VA			
MTR				1500 VA		100.000%		1500 VA		Total Est. Demand: 46640 VA			
REC				38460 VA		62.39%		24240 VA		Total Conn. Current: 162 A			
LTG				6212 VA		125.00%		7765 VA		Total Est. Demand Current: 129 A			
LTG-EXT				740 VA		125.00%		925 VA					
Notes:													



1. PROVIDE A VIDEO DOOR PHONE AT MAIN ENTRY DOOR. PROVIDE A DESKTOP RECEIVER WITH DOOR RELEASE. PROVIDE APPROXIMATE 400-0V AC POWER TO THE VIDEO DOOR PHONE. PROVIDE APPROXIMATE 120V AC POWER TO 400-0V HDT DISC MONITOR. INSTANT DOOR RELEASE IS TO UNLOCK EXTERIOR DOOR ONLY.
2. PROVIDE AND INSTALL NEW MOMENTARY PUSHBUTTON FOR DOOR RELEASE FROM RECEPTION CORRIDOR 101 INTO CORRIDOR 102. BOTH DOORS FROM 101 TO 102 ARE TO UNLOCK.
3. PROVIDE AND INSTALL NEW MOMENTARY PUSHBUTTON FOR DOOR RELEASE FROM RECEPTION 111 INTO HALL 557.
4. PROVIDE AND INSTALL NEW RECALL AND RECALL AND DOWN BUTTON WITH TWIST TO RETURN. UPON ACTIVATION, ALL ACCESS CONTROLS ARE TO ENTER LOCKDOWN MODE AND DIGITAL CLOCKS TO READ LOCKDOWN ALERT.
5. ELECTRICAL CONTRACTOR TO PROVIDE 2"RGC CONDUIT UNDERGROUND TO RECEPTION DESK.
6. PROVIDE AND INSTALL NEW FLUSH MOUNT DIGITAL CLOCK/SPEAKER COMBINATION UNIT.
7. INSTALL OFFICIAL NETWORK TERMINAL UNIT ABOVE CLOSET. PROVIDE PICTURE MOUNTED REAR NETWORK DIGITAL DISPLAY.
8. ELECTRICAL CONTRACTOR TO PROVIDE 1"MTS SLICE AS SHOWN



NO C

NETWORK CABLING, INC.

3100 LA PLATA HWY. FARMINGTON NM 87401
505.598.5054 - WWW.NETWORKCABLINGINC.COM



T-101