

SHANDS STORAGE BUILDING

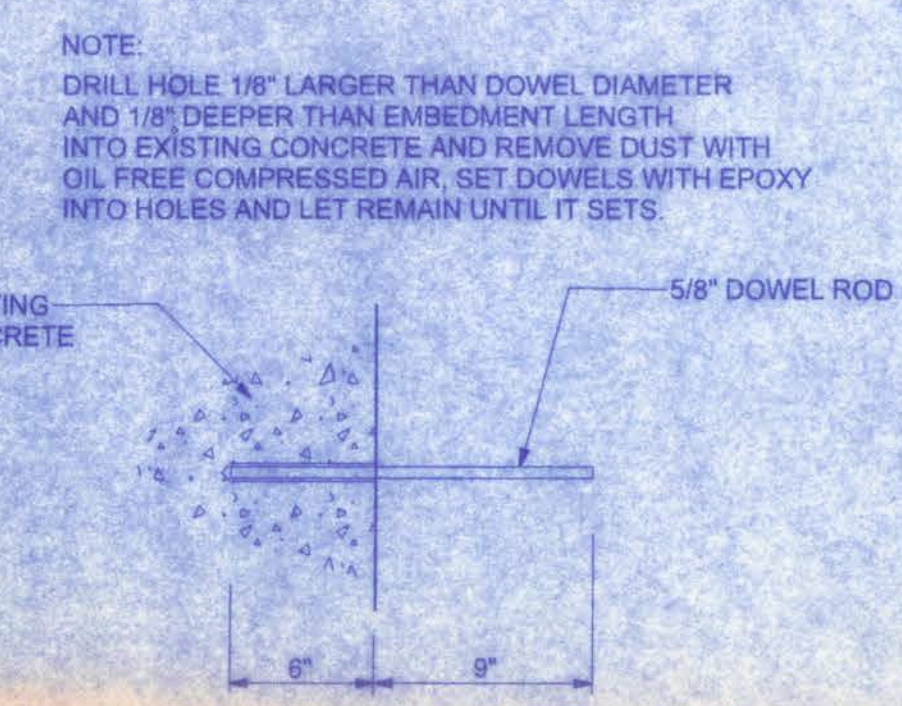
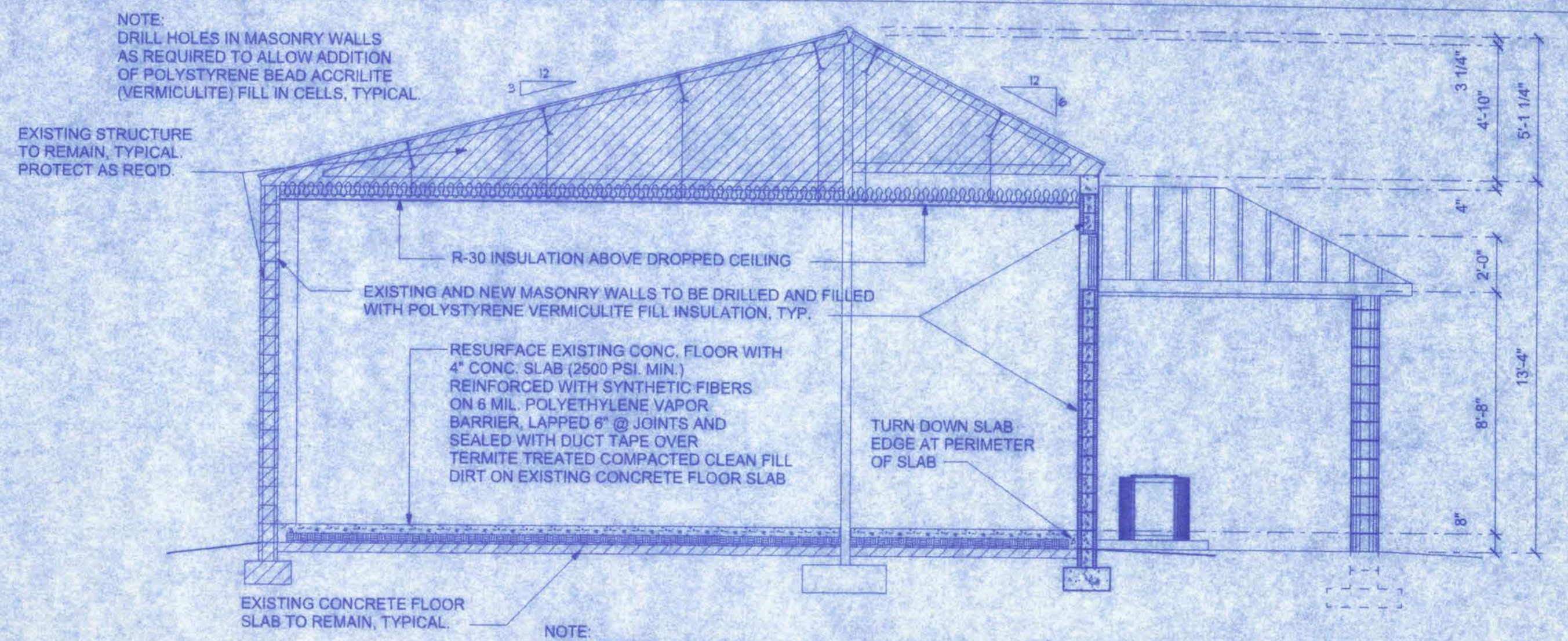
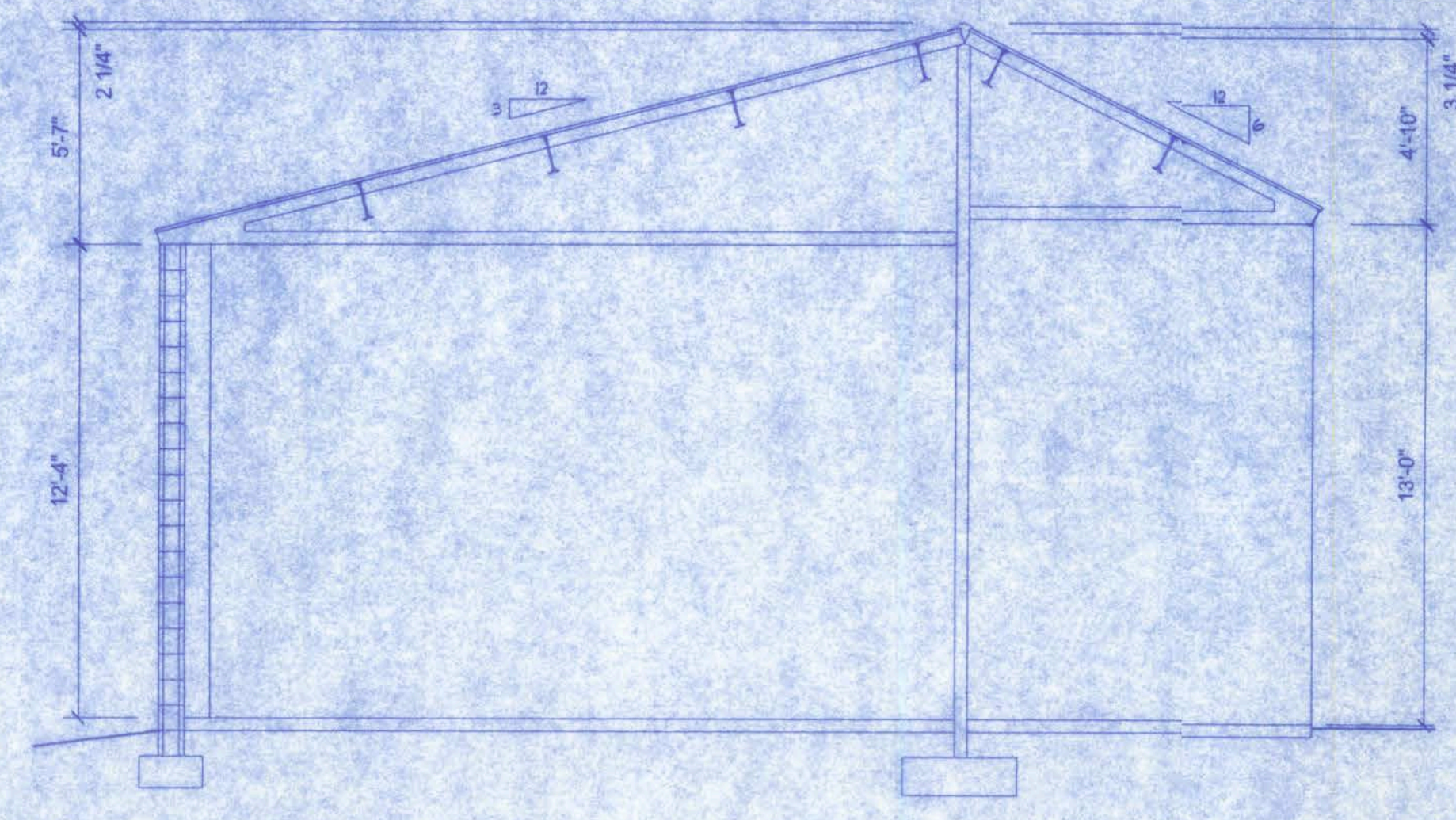
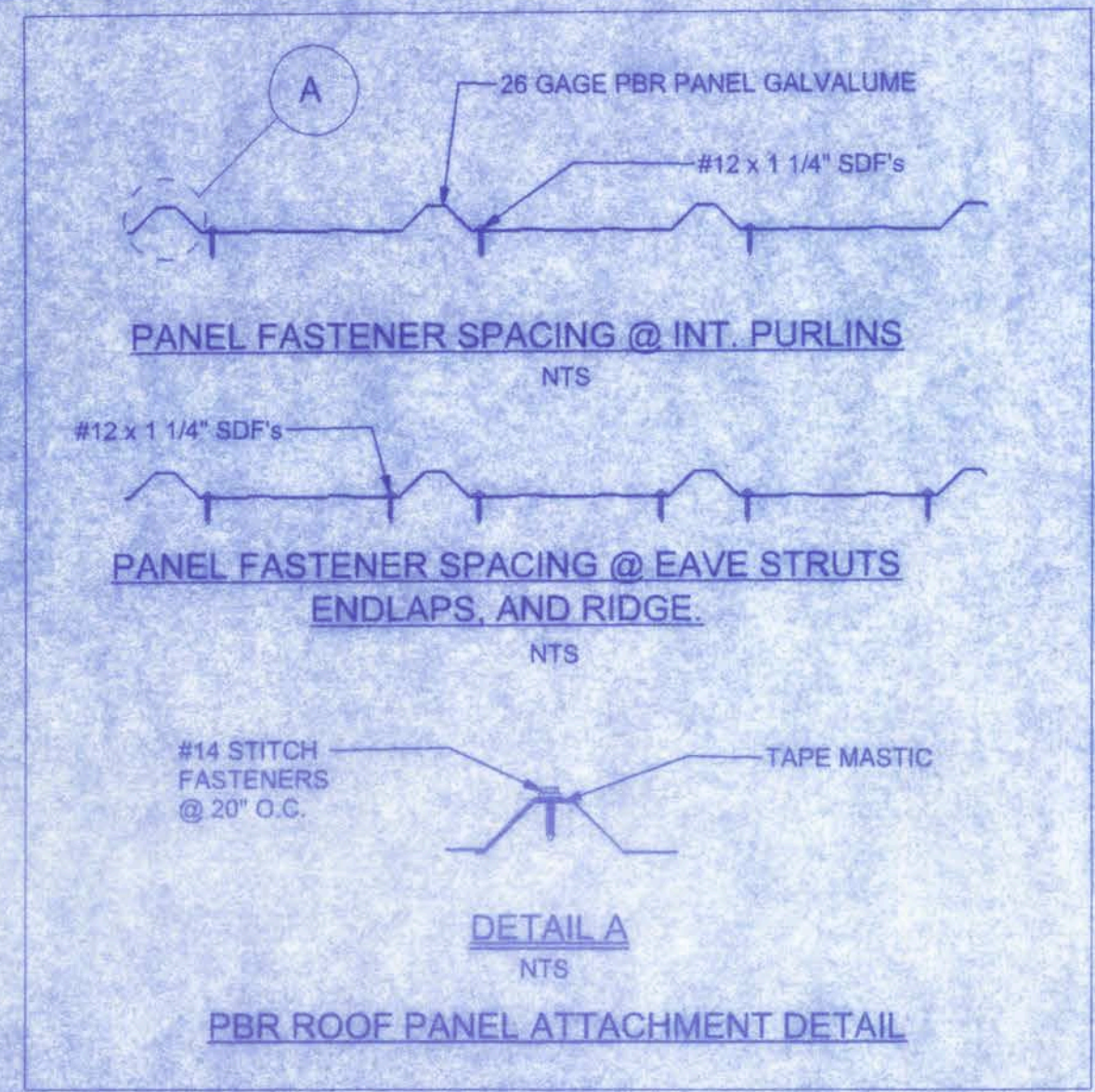
161 NW MADISON STREET
SUITE #102
LAKE CITY, FL 32055
(386) 758-4209

Freeman
Design Group Inc.

DATE: 11/28/06
DRAWN BY: M.E.F.
REVISIONS:
SHEET: A-5
OF: 5
PROJECT NO: 06.C032

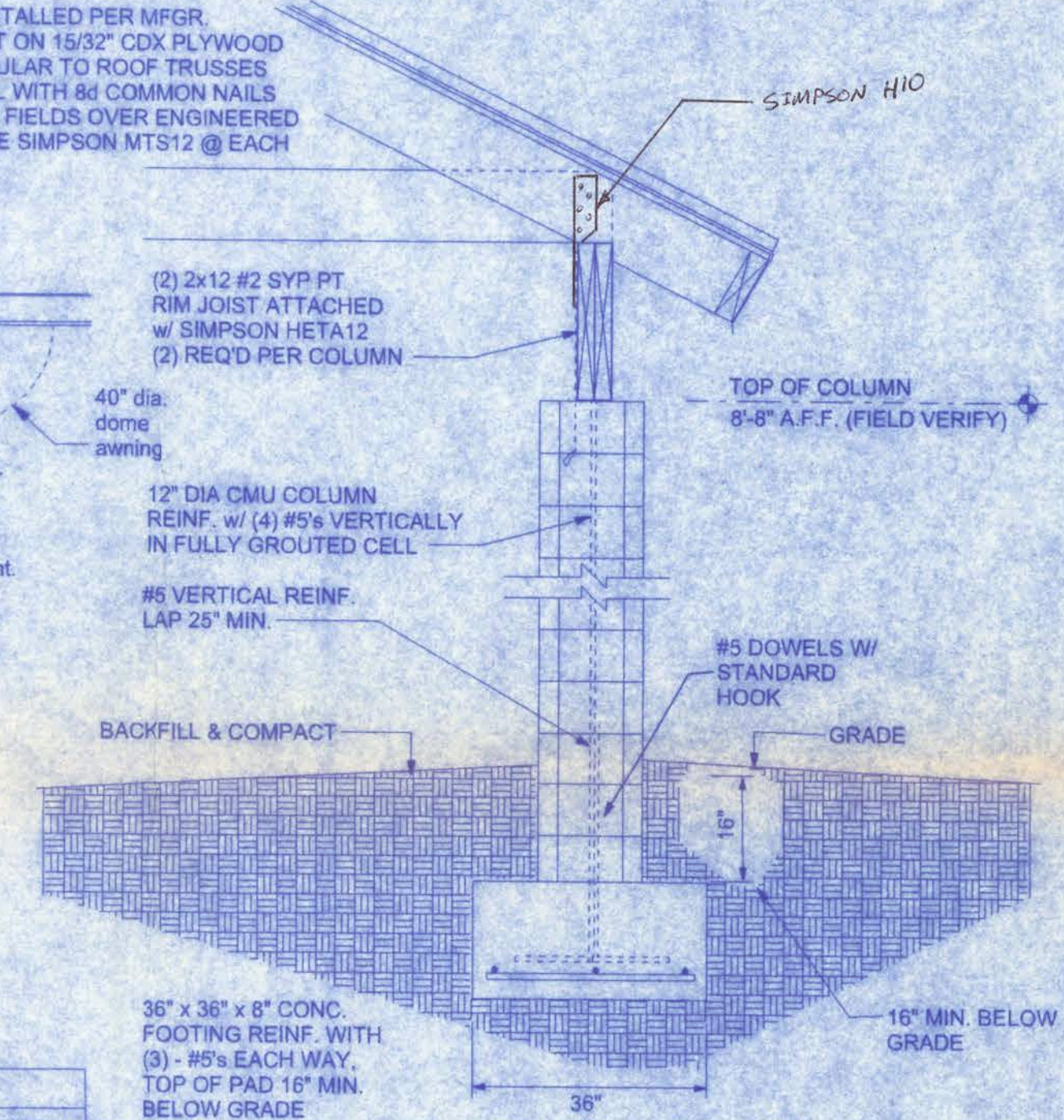
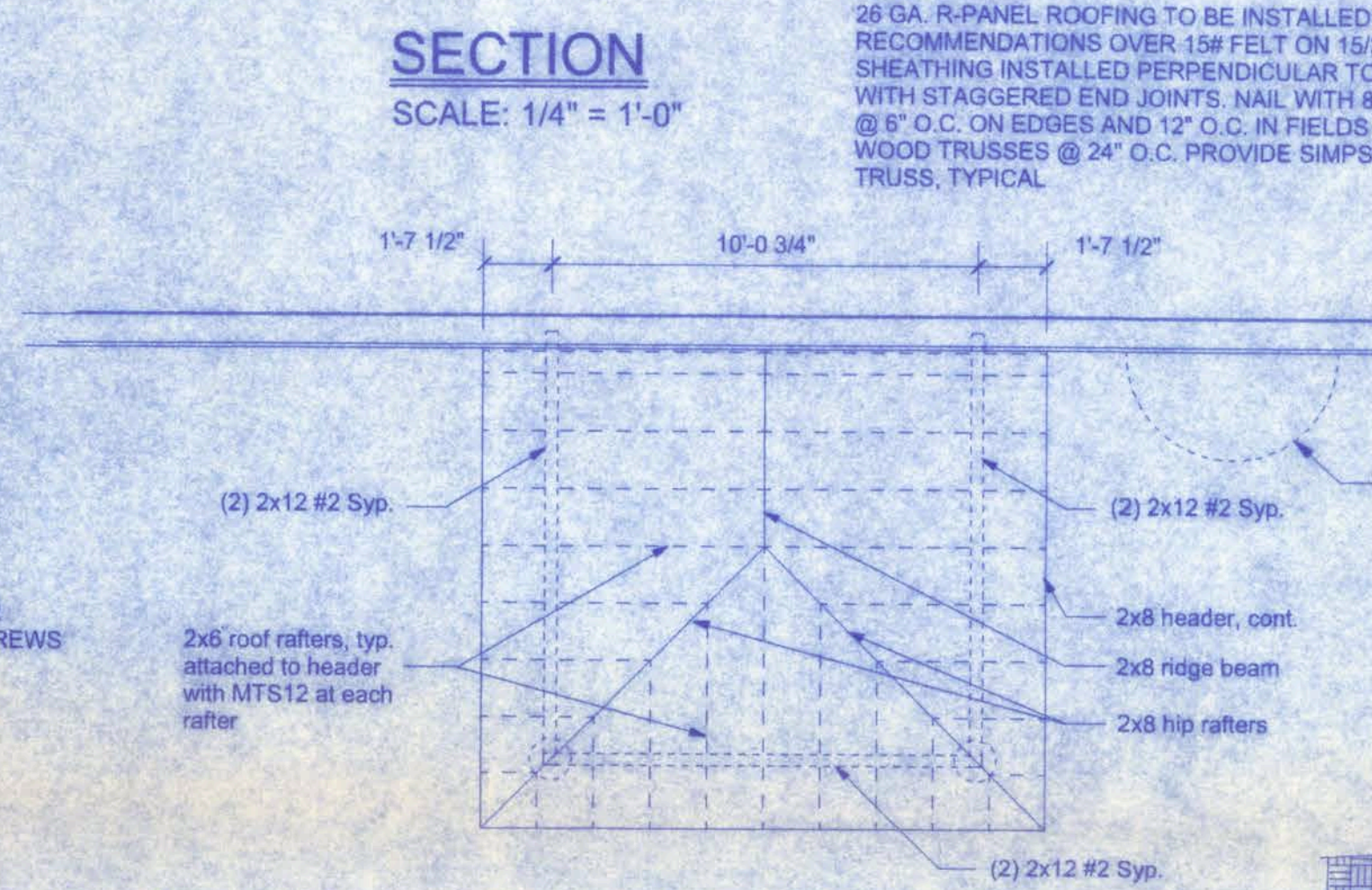
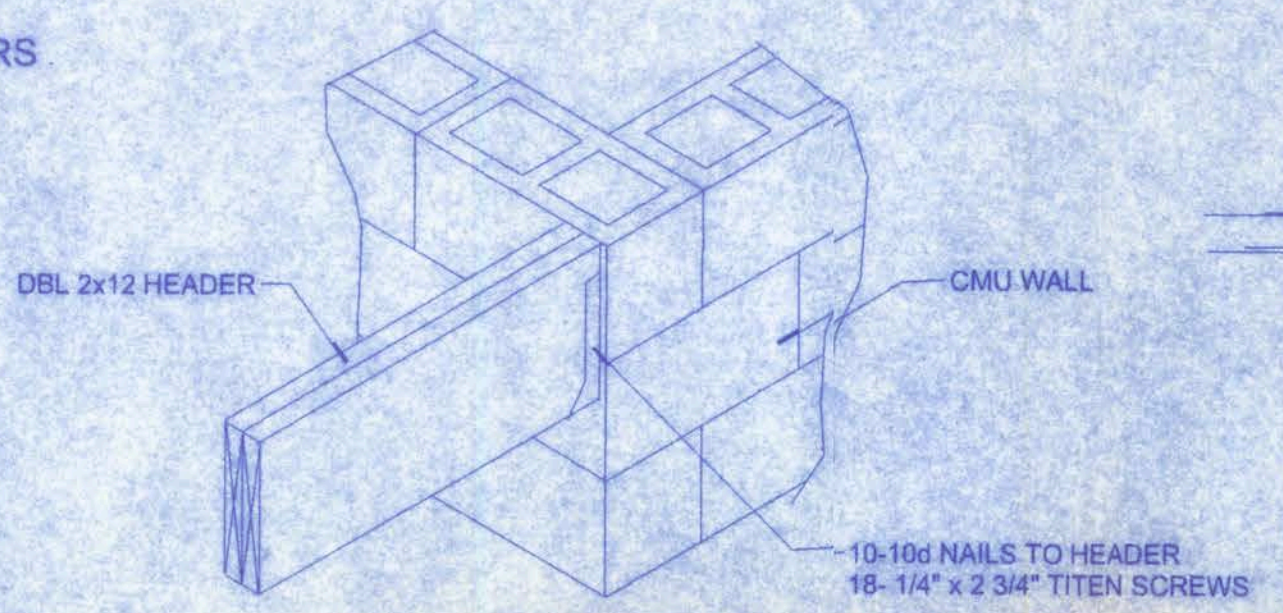
CERTIFICATE OF AUTHORIZATION # 00008701

12/1/06



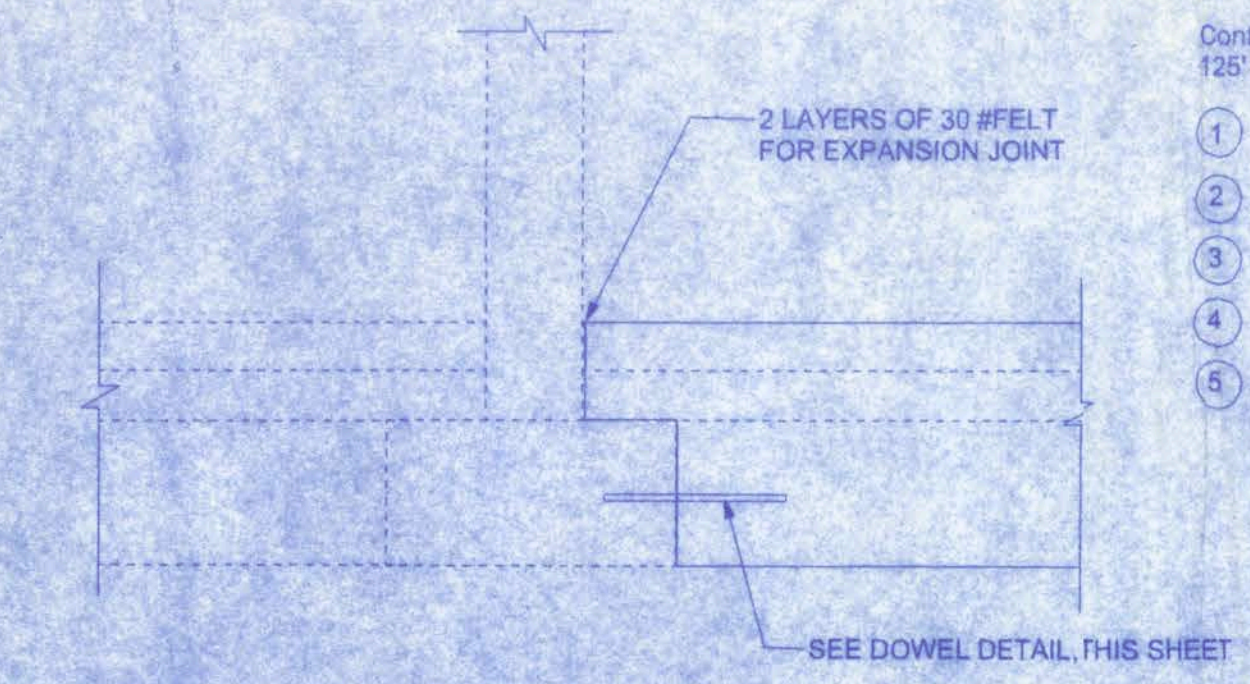
ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS

STRUCTURAL MEMBER	ALLOWABLE DEFLECTION
rafters having slopes greater than 2/12 with no finished ceiling attached to rafters	L/180
interior walls and partitions	H/180
floors and plastered ceilings	L/360
all other structural members	L/240
exterior walls with plaster or stucco finish	H/360
exterior walls - wind loads with brittle finishes	L/240
exterior walls - wind loads with flexible finishes	L/120

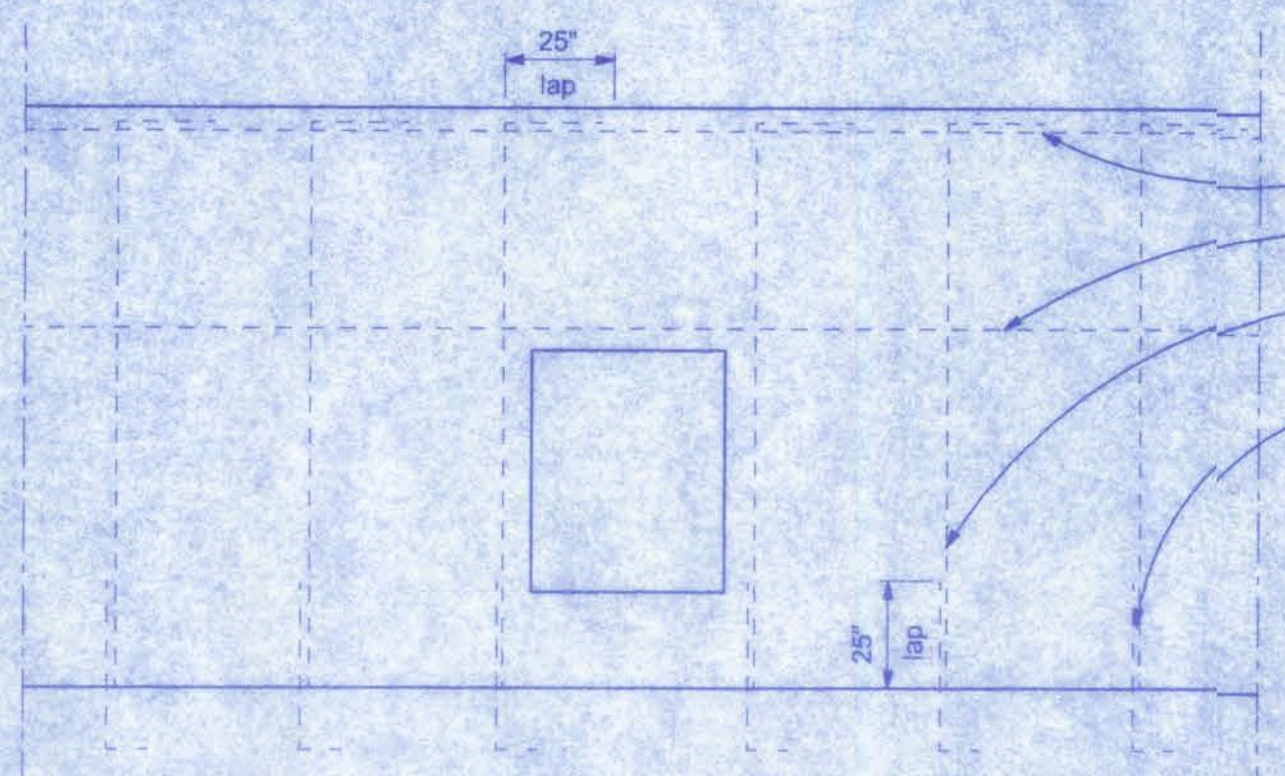
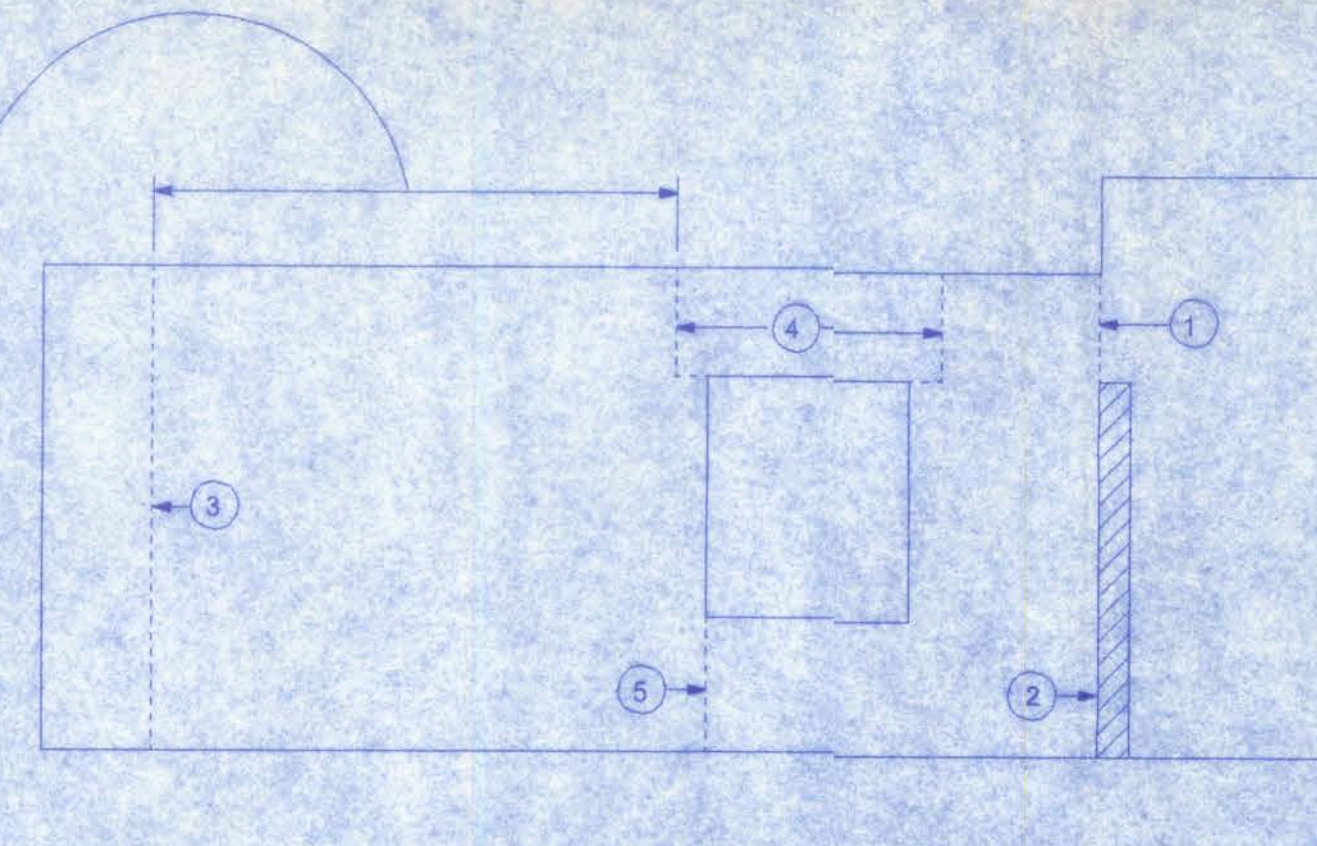


CONNECTOR SCHEDULE FOR TRUSS ANCHORAGE

CONNECTOR	TRUSS	TOP PLATE	UPLIFT PROVIDED	MANUFACTURER
H2.5	5-8d NAILS	5-8d NAILS	365 LBS	SIMPSON
H10	8-8d NAILS	8-8d NAILS	850 LBS	SIMPSON
MTS12	7-10d NAILS	7-10d NAILS	1,000 LBS	SIMPSON
H16	2-10d NAILS	10-10d NAILS	1,300 LBS	SIMPSON
(2)HTS20	10-10d NAILS	10-10d NAILS	2 x 1,450 = 2,900 LBS	SIMPSON

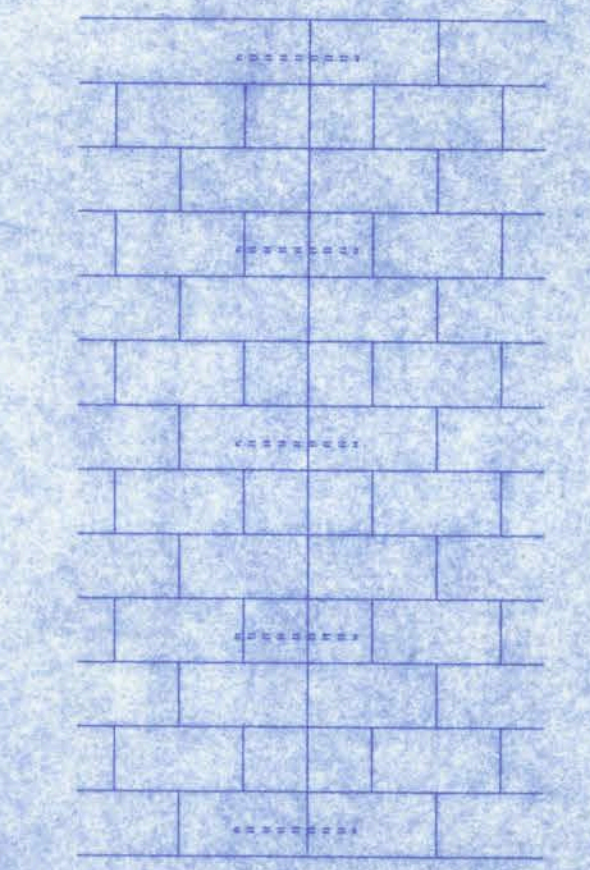
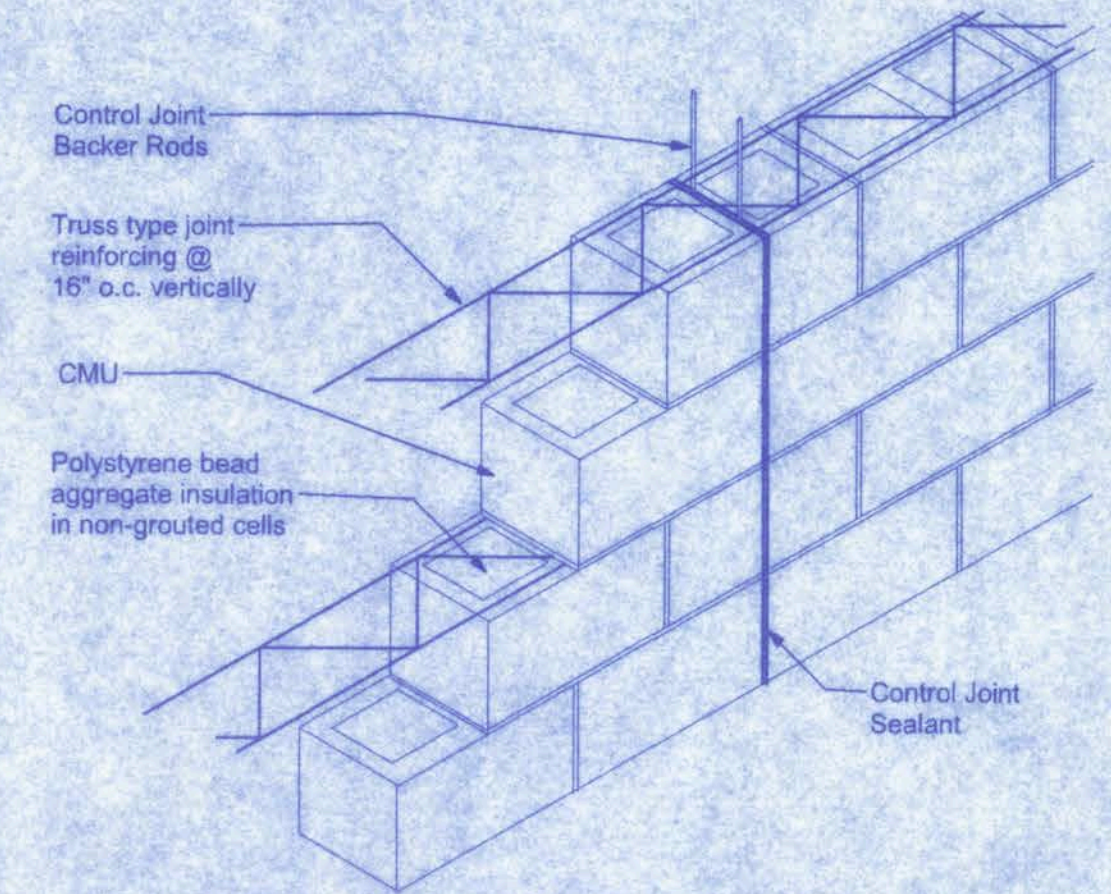


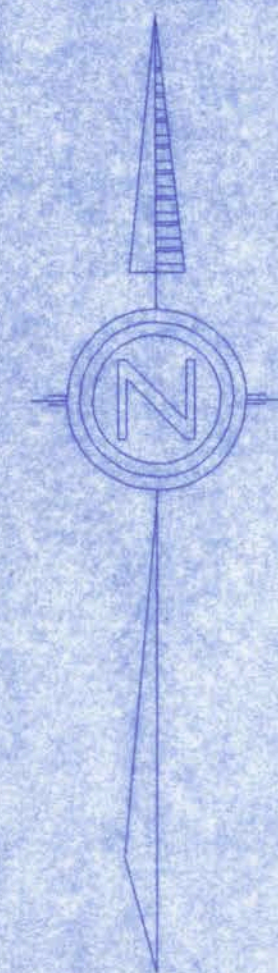
- Control joints should be spaced every 100' to 125' along unbroken wall lengths and:
- At changes in wall height or thickness
 - At columns, pilasters, and wall intersections
 - Near corners
 - On both sides of openings > 6'
 - On one side of openings < 6'



General Reinforcing Requirements

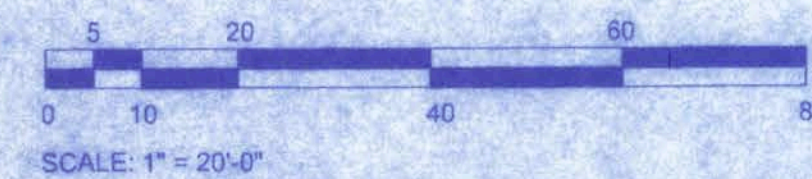
- Top of wall, 1-#5 continuous
 - Top of wall openings, 1-#5 continuous
 - Vertical reinforcement to be 5/8" diameter minimum @ 4'-0" o.c. maximum.
 - Footing Dowels with std. bend in footing and 25" lap with vertical reinforcing. Size and spacing to match wall reinforcing.
- Note: Provide truss type joint reinforcing, not to exceed 16" vertically.





CODE DATA

APPLICABLE CODES:
2004 FLORIDA BUILDING CODE, BUILDING
2004 FLORIDA BUILDING CODE, FUEL GAS
2004 FLORIDA BUILDING CODE, MECHANICAL
2004 FLORIDA BUILDING CODE, PLUMBING
2004 FLORIDA FIRE PREVENTION CODE
2002 NATIONAL ELECTRIC CODE

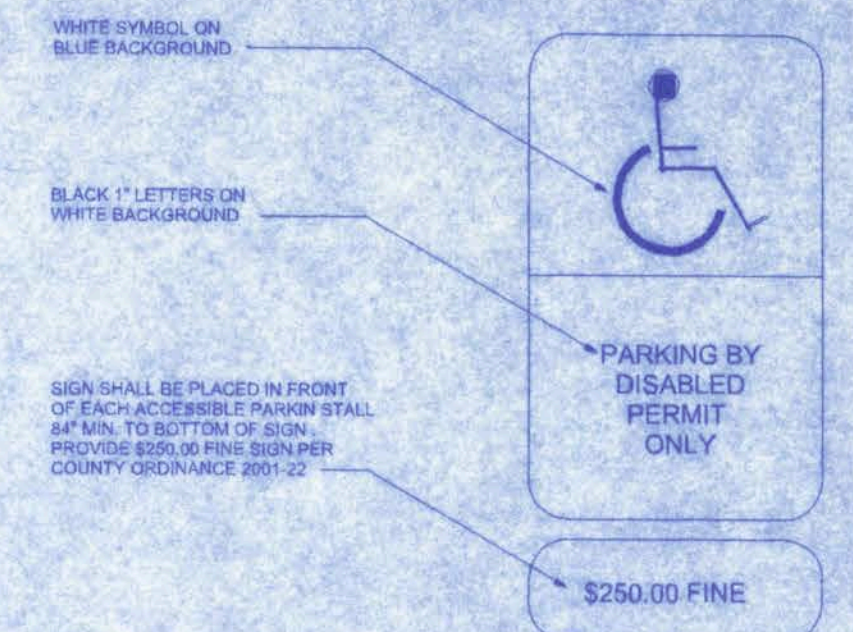
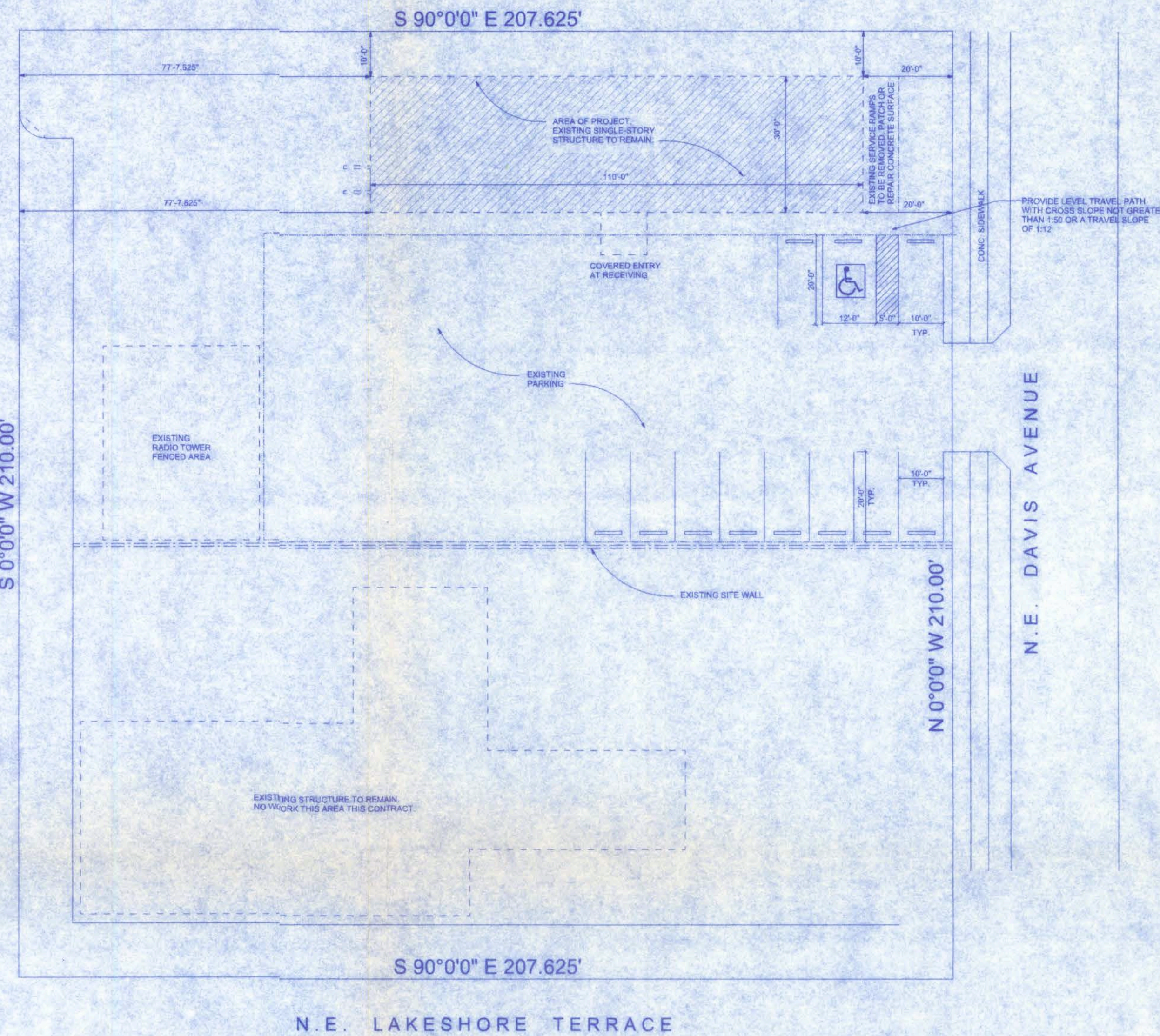


SITE DATA

PROJECT:	SHANDS STORAGE BUILDING		
LEGAL DESCRIPTION:	REFER TO ATTACHED SURVEY		
ZONING:	COMMERCIAL GENERAL		
AREA COMPUTATIONS:	SQUARE FEET	ACRE	% OF TOTAL
GROSS SITE AREA:	43,560 SF	-	-
UPLAND AREA:	43,560 SF	-	-
GDA / GSA:	-	-	-
BUILDING AREA:	3,300 SF	-	-
DRIVES & PARKING:	000 SF	-	-
SIDEWALKS:	000 SF	-	-
GROSS BUILT AREA:	000 SF	-	-
NET LANDSCAPE AREA:	000 SF	-	-
PARKING REQUIRED:			
1 CAR PER 300 SF GROSS			
1 SPACE PER 2 EMPLOYEES =	11- CAR(S)		
PARKING PROVIDED:			
STANDARD CARS:	10- CAR(S)		
HANDICAPPED CARS:	1- CAR(S)		
TOTAL PARKING:	11- CAR(S)		

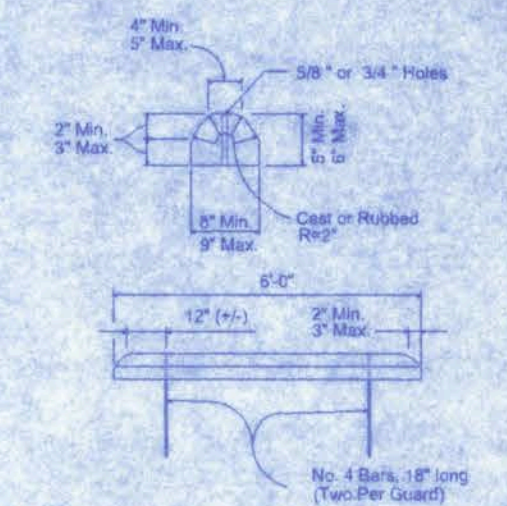
N.E. TAYLOR AVENUE

S 0°0'0" W 210.00'



HANDICAP PARKING SIGNAGE

N.T.S.



CONCRETE WHEEL STOP

N.T.S.

STORAGE BUILDING

161 NW MADISON STREET
SUITE #102
LAKE CITY, FL. 32055
(386)758-4209



DATE: 11/20/06

DRAWN BY: M.E.F.

REVISIONS

SHEET: SP-1

OF: 1

PROJECT NO.

CERTIFICATE OF AUTHORIZATION # 00003701

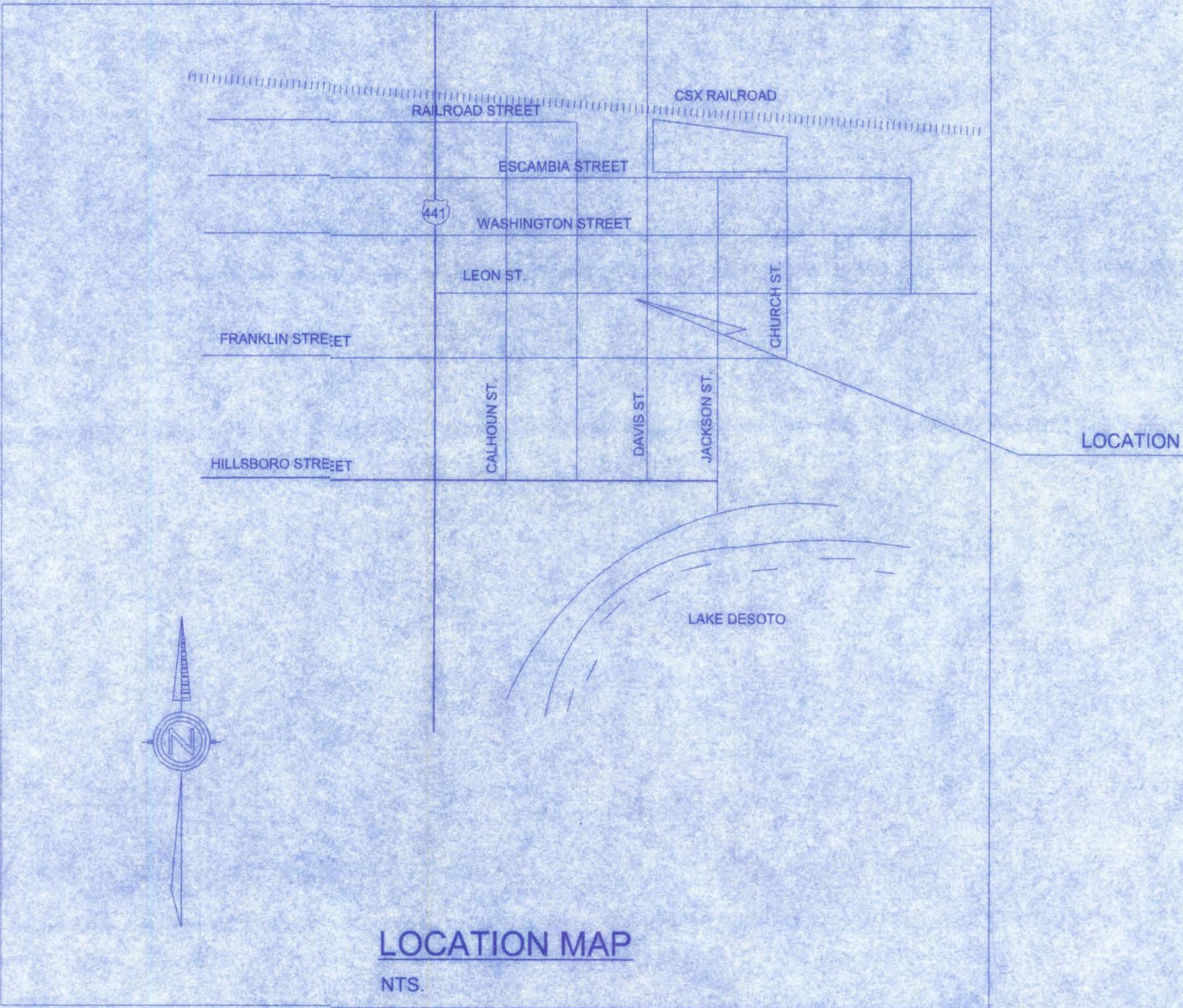
SHANDS HEALTH CARE STORAGE BUILDING

LAKE CITY, FLORIDA

Fire Marshall
approved

INDEX OF SHEETS

SHEET	DESCRIPTION
SP-1	COVER SHEET
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A-2	GENERAL NOTES
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A-4	NEW FLOOR PLAN
A-5	ELEVATIONS
A-5	SECTIONS
M-1	HVAC PLAN
E-1	LIGHTING PLAN
E-2	ELECTRICAL PLAN
P-1	PLUMBING PLAN
F-1	FIRE PROTECTION PLAN



PLANS PREPARED FOR:

J.L. DUPREE
LAKE CITY, FL.

PLANS PREPARED BY:

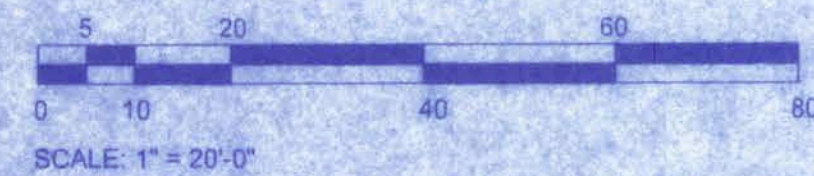
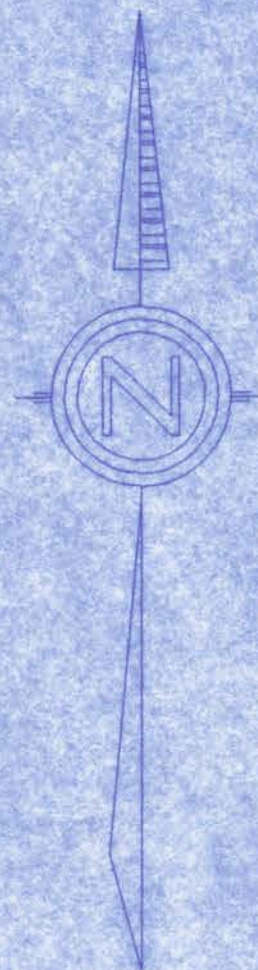
Freeman Design Group, Inc.
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SUITE #102
LAKE CITY, FL. 32055
(386) 758-4209
CERTIFICATE OF AUTHORIZATION # 0008701

APPROVED
(Subject to Revisions)
Inspection Department
Lake City Fire Dept.
State Fire Inspector
License # 13369
By: *[Signature]* Date: 12-4-06

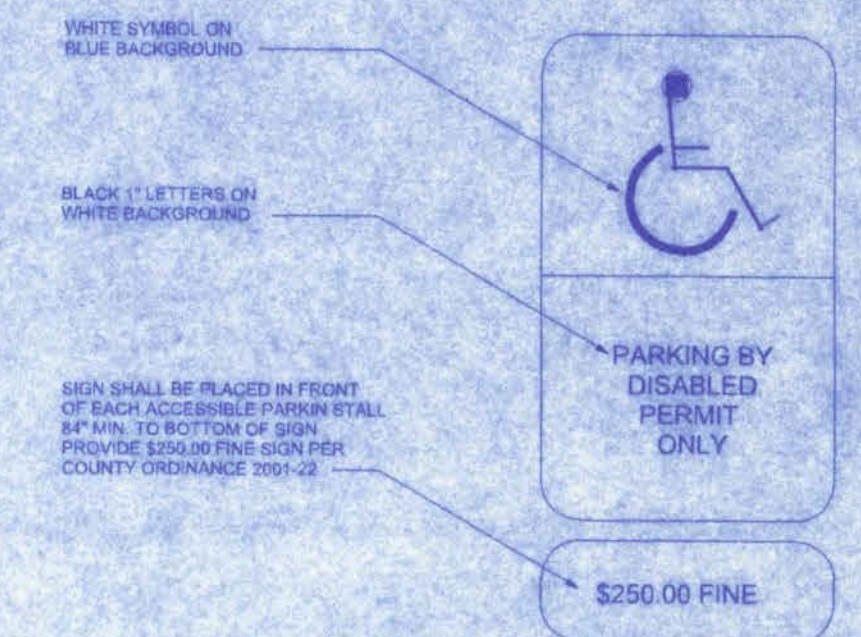
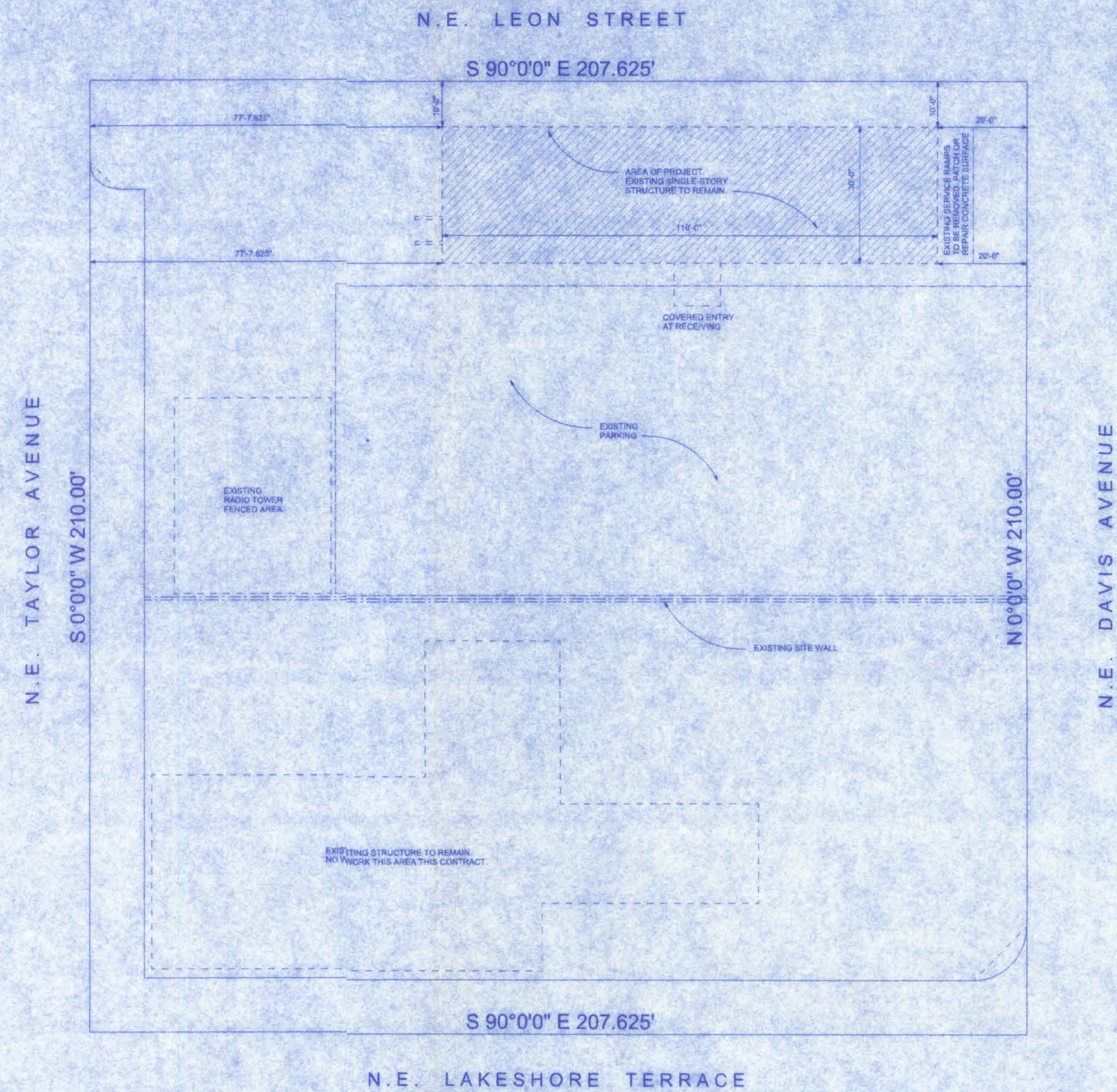
[Signature]
11/28/06

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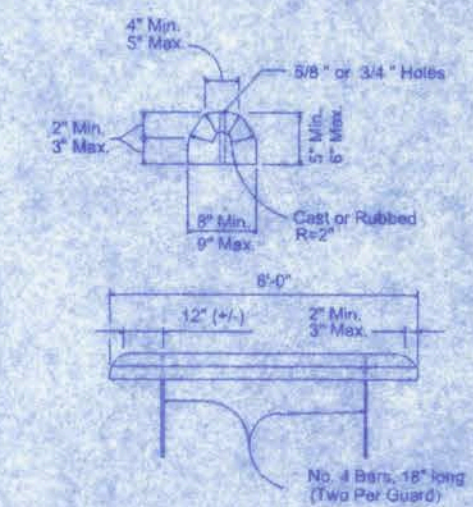
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SIDEWALKS:	000 SF	-	-
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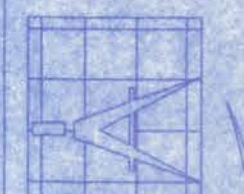
HANDICAP PARKING SIGNAGE



CONCRETE WHEEL STOP
N.T.S.

SHANDS STORAGE BUILDING

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DATE	DRAWN BY
11/20/06	M.E.F.

REVISIONS

SHEET SP-1

OF 1

PROJECT NO.

GENERAL NOTES

DESIGN CRITERIA

- D1 ALL WORK SHALL CONFORM TO AT LEAST THE MINIMUM STANDARD OF THE FOLLOWING CODES:
2004 FLORIDA BUILDING CODE, BUILDING
2004 FLORIDA BUILDING CODE, FUEL GAS
2004 FLORIDA BUILDING CODE, MECHANICAL
2004 FLORIDA BUILDING CODE, PLUMBING
2004 FLORIDA FIRE PREVENTION CODE
2002 NATIONAL ELECTRIC CODE.
- D2 DESIGN LOAD VALUES:
FLOOR LIVE LOADS 40 PSF
ASSUMED ALLOWABLE SOIL BEARING CAPACITY 2000 PSF
- D3 THE STRUCTURAL PLANS AND WIND SPEED HAVE BEEN DESIGNED IN ACCORDANCE WITH SECTION 1609 OF THE FLORIDA BUILDING CODE 2004 EDITION.

GENERAL

- G1 THE GENERAL CONTRACTOR SHALL REVIEW AND DETERMINE THAT DIMENSIONS ARE COORDINATED BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION OR START OF CONSTRUCTION.
- G2 THE GENERAL CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, THE WORK PERSONS, AND OTHER PEOPLE DURING CONSTRUCTION. HE SHALL SUPERVISE AND DIRECT THE WORK AND BE RESPONSIBLE FOR ALL CONSTRUCTION & FOR ALL JOBSITE SAFETY.
- G3 NO STRUCTURAL MEMBER SHALL BE CUT NOTCHED OR OTHERWISE REDUCED IN STRENGTH.
- G4 THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ANCHORED, EMBEDDED AND SUPPORTED ITEMS WHICH AFFECT THE STRUCTURAL DRAWINGS AND NOTIFY THE ARCHITECT/ENGINEER ON ANY DISCREPANCIES.
- G5 ANY SUBMITTALS RECEIVED BY A/E THAT HAVE NOT BEEN CHECKED BY THE GC AND HIS SUBCONTRACTOR SHALL BE RETURNED WITHOUT REVIEW.
- G6 ALL SECTIONS AND DETAILS SHALL BE CONSTRUCTED TO BE TYPICAL OR SIMILAR UNLESS ANOTHER SECTION OR DETAIL IS NOTED.
- G7 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION, INCLUDING FABRICATION. ALL DISCREPANCIES SHALL BE REPORTED TO THE A/E FOR RESOLUTION.

FOUNDATIONS

- F1 A GEOTECHNICAL REPORT FOR THIS PROJECT WAS NOT PROVIDED BY THE OWNER. THESE PLANS ARE BASED UPON AN ASSUMED ALLOWABLE BEARING CAPACITY OF 2000 PSF. THE CONTRACTOR SHALL ENGAGE A QUALIFIED AND CERTIFIED GEOTECHNICAL ENGINEER TO DETERMINE THE ALLOWABLE SOIL BEARING CAPACITY. A COPY OF THE REPORT SHALL BE PROVIDED TO THE A/E. IF THE DETERMINED ALLOWABLE BEARING CAPACITY IS LESS THAN THE ASSUMED VALUE, MODIFICATIONS TO THE FOUNDATIONS MAY BE REQUIRED.
- F2 THE GEOTECHNICAL ENGINEER SHALL MAKE A FIELD INVESTIGATION TO DETERMINE IF ANY SOIL CONDITIONS ARE PRESENT THAT MAY ADVERSELY AFFECT THE PROJECT. THE CONTRACTOR SHALL REMOVE ALL SUCH MATERIAL AND REPLACE IT WITH APPROVED FILL.
- F3 SUBGRADE UNDER FOOTINGS AND SLABS SHALL BE COMPACTED TO AT LEAST 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557). SUBMIT DENSITY TESTS TO THE A/E.

SLABS ON GRADE

- S1 PROVIDE 6 MIL POLYETHYLENE SHEETING UNDER ALL SLABS ON GRADE.
- S2 PROVIDE CONTROL JOINTS (1/4" WIDE BY 3/8" DEEP) AS INDICATED ON PLAN. FILL JOINTS WITH POURED RUBBER. IF JOINTS ARE SAWCUT, SAWCUTTING MUST BE DONE THE SAME DAY THE CONCRETE IS PLACED.
- S3 PROVIDE 1/2" EXPANSION JOINTS AT ALL LOCATIONS WHERE SLABS ABUT STRUCTURES (WALLS, COLUMNS, ETC.).

CONCRETE AND REINFORCING

- C1 THE GENERAL CONTRACTOR SHALL ENGAGE A CERTIFIED TESTING AGENCY TO PERFORM INDUSTRY STANDARD TESTING INCLUDING SLUMP TESTS AND CYLINDER BREAKS TO ENSURE CONFORMANCE WITH PLANS. SUBMIT REPORTS TO A/E.
- C2 CONCRETE WORK & MIX DESIGN SHALL CONFORM TO ACI 301 (LATEST EDITION) "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". MIXING SHALL BE IN ACCORDANCE WITH ASTM C94.
- C3 MINIMUM 28-DAY COMPRESSIVE STRENGTH:
FOOTINGS AND TIE BEAMS 2,500 PSI
COLUMNS AND SLABS 2,500 PSI
- C4 SPLICES OF REINFORCING (EXCEPT AS SHOWN ON PLANS)
#4 BARS 20 INCHES
#5 BARS 27 INCHES
WELDED WIRE MESH 6"
- C5 AT ALL CORNERS OF TIE BEAMS AND WALL FOOTINGS, PROVIDE CORNER BARS (30 INCH MINIMUM LEGS) TO MATCH HORIZONTAL BARS.
- C6 REINFORCING BARS SHALL CONFORM TO ASTM A615-95a GRADE 40. WELDED WIRE MESH SHALL CONFORM TO ASTM A-185. LAP WELDED WIRE MESH ON MESH + 2" WHERE SPLICED.
- C7 MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

LOCATION	MIN. COVER
BOTTOM OF FOOTINGS	3"
SIDES OF FOOTINGS	3"
COLUMNS	1 1/2"
TIE BEAMS	1 1/2"
SLABS	AS NOTED

REQUIRED OUTDOOR VENTILATION AIR PER TABLE 403.3 FLORIDA MECHANICAL CODE, 2004 EDITION.			
OCCUPANCY	ESTIMATED MAX. OCCUPANT LOAD PERSONS PER 1000 SQ. FT.	OUTDOOR AIR CFM PER PERSON	
STORAGE	70	20	4,130 sf/1,000*70*20= 5,782 cfm
OFFICE	20	15	1,500 sf/1,000*20*15= 450 cfm
TOILET ROOMS	-	50 cfm per water closet or urinal	1 * 50 = 50 cfm
TOTAL			

BUILDING USE, CLASSIFICATION & OCCUPANCY AS PER TABLES 503 & 1004.2.1, FLORIDA BUILDING CODE, 2004 ED.	
BUILDING GROUP OCCUPANCY	GROUP S-1 / GROUP F-1
TABLE 503 TYPE OF CONSTRUCTION	TYPE III - B
TABLE 503 AREA/HEIGHT LIMITATIONS	17.5 KSF/3 STORY (S-1) 12.0 KSF/2 STORY (F-1)
OCCUPANCY	
Warehouse	= 500 gross;
Industrial	= 100 gross
17 OCCUPANTS	

NOTE:
ALL WIND LOADS ARE IN ACCORDANCE ASCE 7 AND SECTION 1609 - FBC, 2004 EDITION

BASIC WIND SPEED	110 MPH
IMPORTANCE FACTOR	1.0
BUILDING CATEGORY	2
EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT	+/- 0.18
COMPONENT AND CLADDING PRESSURE	WALLS +21.8/-29.1 PSF ROOF +12.5/-29.1 PSF OVERHANGS -71.6 PSF
TYPE OF STRUCTURE	ENCLOSED

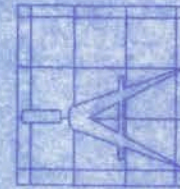
MASONRY

- M1 MASONRY CONSTRUCTION SHALL CONFORM TO ACI STANDARD BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES (ACI 530-88/ASCE 5-88) AND SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530-1-88/ASCE 6-88).
- M2 CONCRETE BLOCKS SHALL CONFORM TO ASTM C-90 (fm = 1500 PSI) (1900 PSI ON THE NET AREA).
- M3 MORTAR SHALL COMPLY WITH ASTM C270 TYPE M OR S (COMPRESSIVE STRENGTH = 2500 PSI AND 1800 PSI) RESPECTIVELY. SITE TESTED MORTAR CUBES SHALL ACHIEVE A MINIMUM OF 80% OF THE DESIGN COMPRESSIVE STRENGTH.
- M4 BLOCK SHALL NOT BE MOISTENED BEFORE GROUTING.
- M5 ALL MASONRY CROSS WEBS SHALL BE FULLY BEDDED IN MORTAR AROUND CELLS TO BE GROUTED.
- M6 THE MINIMUM CONTINUOUS UNOBSTRUCTED CELL AREA IN CELL TO RECEIVE GROUT MUST BE NOT LESS THAN 2" x 3". MORTAR FINIS MUST BE REMOVED AS BLOCK PLACEMENT PROCEEDS. MORTAR DROPPINGS MUST BE KEPT OUT OF CELLS WHICH ARE TO BE GROUTED.
- M7 REINFORCE WALLS WITH LADDER TYPE (ASTM A-82, #9 GAGE WIRE) REINFORCEMENT EQUAL TO DURO-WALL IN BED JOINTS @ 16" O.C. MEASURED VERTICALLY. PLACE PER MFR. INSTR. LAP ALL HORIZONTAL JOINT REINFORCING 8" MIN.
- M8 CORES OR BLOCK MASONRY SHALL BE FILLED WITH GROUT AT CORNERS, EACH SIDE OF OPENINGS, AND @ 48" O.C. WITH MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. GROUT SLUMP SHALL BE 8" TO 11" FOR MASONRY FILLED CELLS.
- M9 GROUT FOR FILLED CELLS SHALL BE POURED OR PUMPED IN LIFTS NOT TO EXCEED EIGHT (8) FEET IN HEIGHT, AND SHALL BE CONSOLIDATED AT TIME OF POURING BY RODDING OR VIBRATING.
- M10 PROVIDE KNOCK-OUT CMU AT BASE OF EACH FILLED CELL TO ALLOW VISUAL VERIFICATION OF COMPLETE GROUT PENETRATION (FOR LIFTS OF 5'-0" OR LESS, A KNOCK OUT AT BASE OF LIFT WILL NOT BE REQUIRED).
- M11 VERTICAL REINFORCING MUST HAVE A MINIMUM CLEARANCE OF 1/2" TO INSIDE FACE. VERTICAL REINFORCEMENT IN WALLS SHALL BE SECURED AND LATERALLY SUPPORTED AGAINST DISPLACEMENT AT INTERVALS NOT EXCEEDING 6 FT.
- M12 GROUT PLACEMENT STOPPED FOR (1) HOUR OR MORE SHALL BE STOPPED (1 1/2") BELOW THE TOP OF THE MASONRY UNIT TO PROVIDE A KEY FOR SUBSEQUENT GROUTING.
- M13 SEE FOUNDATION PLANS FOR ALL VERT. REINFORCING. TYP. VERTICAL REINFORCING SIZE & SPACING SHALL BE ABOVE AND BELOW ALL WALL OPENINGS.
- M14 TEMPORARY BRACING AND SHORING OF WALLS TO PROVIDE STABILITY DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
- M15 MASONRY CONSTRUCTION MATERIALS AND INSPECTIONS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI-ASCE 530.1)" EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE DOCUMENTS.
- M16 PROVIDE FILLED PRECAST U-LINTELS W/ (1) #5 CONT. AT ALL OPENINGS WHERE CONCRETE BEAMS ARE NOT SHOWN OR NOTED. MINIMUM UNFILLED LINTEL CAPACITY = 400 lb./F FOR SPAN INDICATED. SEE PLANS FOR LINTEL REQUIREMENTS AT DOOR OPENINGS.
- M17 STOPPING AND RESUMING WORK: RACK BACK 1/2- UNIT LENGTH IN EACH COURSE. DO NOT TOOTH. CLEAN EXPOSED SURFACES OF SET MASONRY WET UNITS LIGHTLY (IF REQ'D.) AND REMOVE LOOSE MASONRY UNITS AND MORTAR PRIOR TO LAYING FRESH MASONRY.
- M18 REINFORCE MASONRY OPENINGS GREATER THAN 1'-0" WIDE WITH HORIZ. JT. REINF. PLACED IN (2) HORIZ. JTS. APPROXIMATELY 8" APART, IMMEDIATELY ABOVE THE LINTEL AND IMMEDIATELY BELOW THE SILL. EXTEND REINFORCING A MINIMUM OF 2'-0" BEYOND JAMBS OF THE OPENING EXCEPT AT CONTROL JOINTS. SEE PLAN FOR ADDITIONAL REQUIREMENTS.
- M19 DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) DAYS.
- M20 DO NOT APPLY CONCENTRATED LOADS TO MASONRY WALLS FOR (7) DAYS.
- M21 EXTEND ALL VERTICAL REINFORCEMENT TO WITHIN 2" OF TOP OF TIE BEAMS UNLESS OTHERWISE NOTED.

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SUITE #102
LAKE CITY, FL 32055
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CERTIFICATE OF AUTHORIZATION # 00082701



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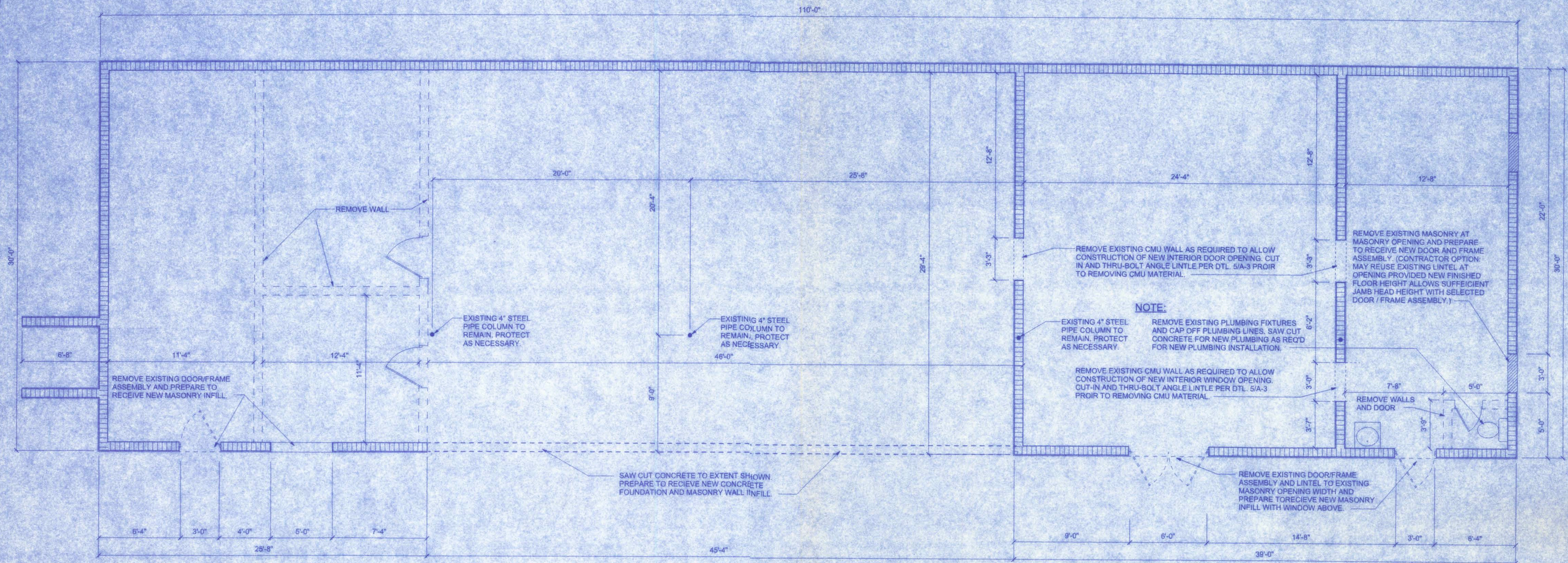
REVISIONS

SHEET A-1

OF 5

PROJECT NO.
06.C032

C. Shands
11/28/06



EXISTING FLOOR PLAN

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

DEMOLITION NOTES:

1. REMOVE EXISTING STREET FRONT PARKING AND CONCRETE SERVICE PIT AS REQUIRED. THEN INFILL AS REQUIRED AND PREPARE AREA TO RECEIVE NEW H/C PARKING.
2. REMOVE EXISTING DOOR / WINDOW FRAME ASSEMBLY IN ITS ENTIRETY AND PREPARE TO RECEIVE NEW CONSTRUCTION AS INDICATED ON THE PLANS.
3. MODIFY EXISTING GUTTERS TO INCLUDE GUTTERS AT NEW DELIVERY AREA CANOPY.
4. REMOVE EXISTING INTERIOR UTILITY SERVICES IN THEIR ENTIRETY BACK TO BUILDING SOURCE OF ORIGIN AND PREPARE TO RECEIVE NEW BOXES AND PANELS FOR ELECTRIC, PHONE, DATA AND/OR CAT5e.
5. SAWCUT AND REMOVE EXISTING SLAB AND FOOTING AS INDICATED TO ALLOW NEW CONSTRUCTION.
6. REMOVE EXISTING METAL ROOF FINISH AND PREPARE TO RECEIVE NEW METAL ROOFING SYSTEM.
7. VERIFY LOCATIONS PRIOR TO COMMENCING OF ANY DEMOLITION.

CONSTRUCTION DOCUMENTS:

THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITY FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR REVIEWING THE PLANS AND VERIFYING ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION INCLUDING FABRICATION. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION.

DO NOT SCALE THESE PLANS:

AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMETIC MAY BE USED TO DETERMINE THE LOCATION OF THOSE ITEMS NOT DIMENSIONED.

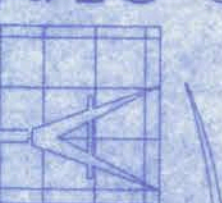
CHANGES TO PLAN SETS:

PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THESE PLANS WITHOUT CONSULTING WITH THE ARCHITECT/ENGINEER. THE OWNER SHALL ASSUME ANY AND ALL LIABILITY FOR STRUCTURAL DAMAGE RESULTING FROM CHANGES MADE TO THE PLANS OR BY SUBSTITUTION OF MATERIALS DIFFERENT FROM SPECIFICATIONS ON THE PLANS.

11/28/06

SHANDS STORAGE BUILDING

161 NW MADISON STREET
SUITE #102
LAKE CITY, FL 32055
(386) 758-4209



Freeman
Design Group, Inc.

DATE: 11/21/06
DRAWN BY: M.E.F.

REVISIONS

SHEET: A-2

OF: 5

PROJECT NO.: 06.C032

CERTIFICATE OF AUTHORIZATION # 00006701

SHANDS STORAGE BUILDING

161 NW MADISON STREET
SUITE #102
LAKE CITY, FL 32055
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CERTIFICATE OF AUTHORIZATION # 00008701

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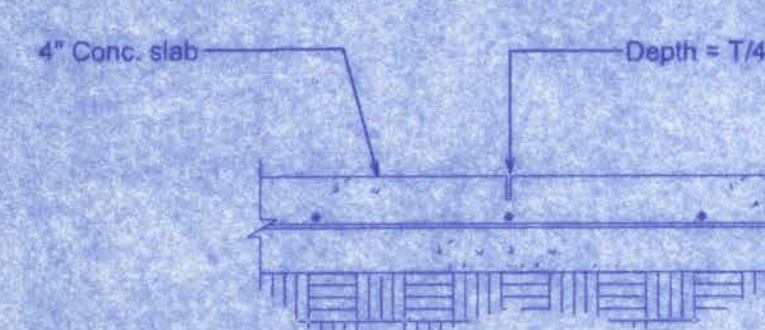
SHEET A-3

OF 5

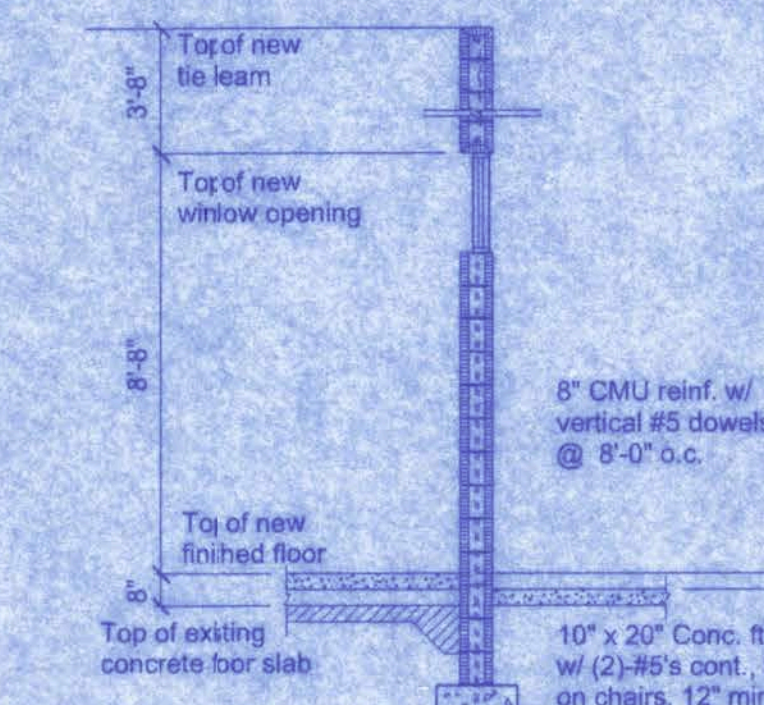
PROJECT NO. 06.C032

W. Scott Faye
11/28/06

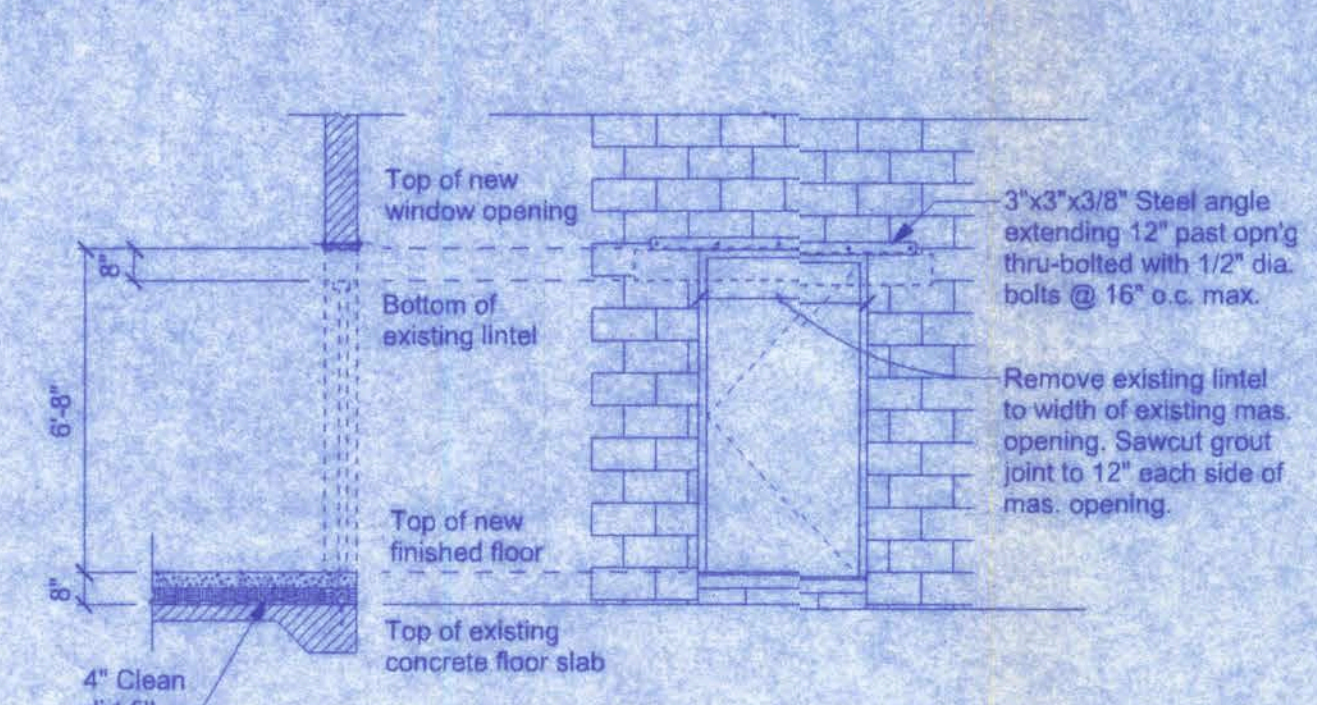
NOTE:
SAW CUT SHALL BE MADE
WITHIN 24 HOURS OF POUR



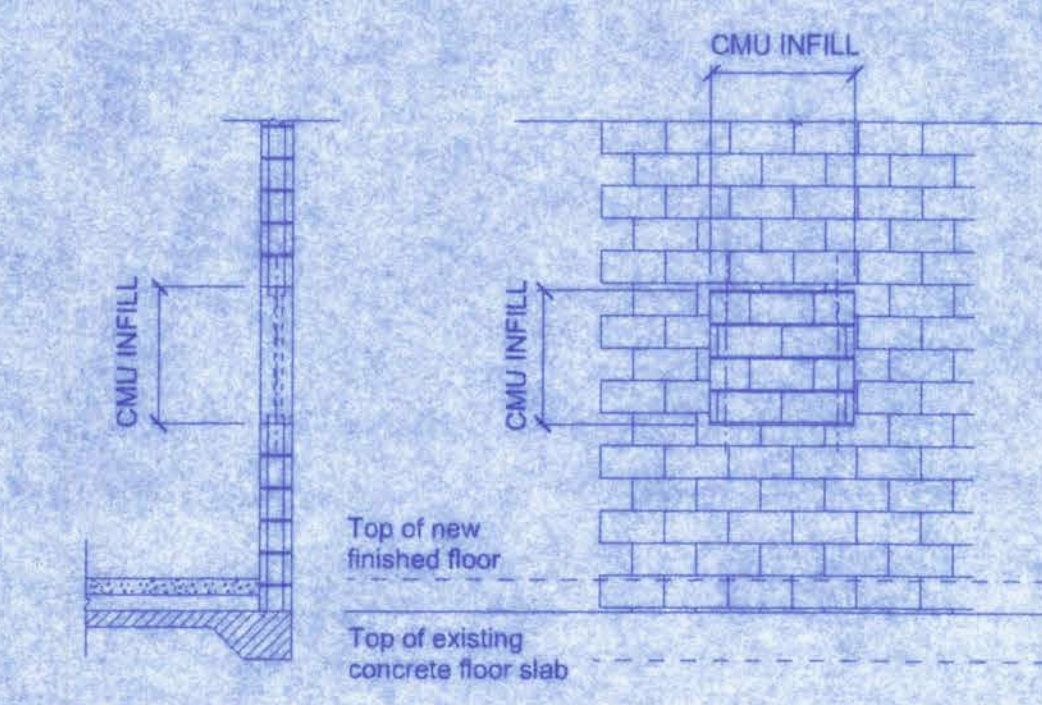
1 SAWCUT DETAIL
SCALE: 1" = 1'-0"



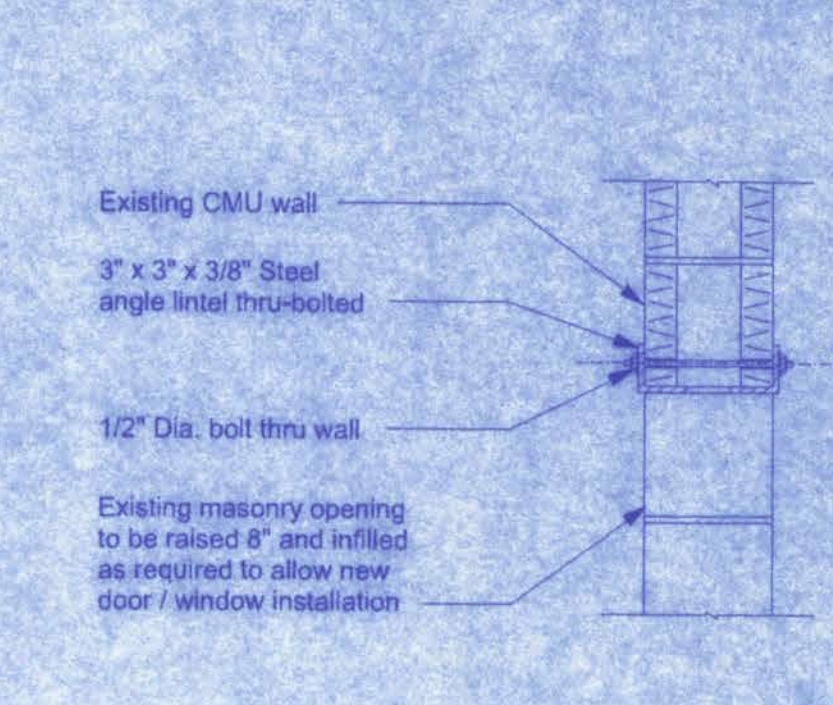
2 SECTION @ HIGH WINDOW
SCALE: 1/4" = 1'-0"



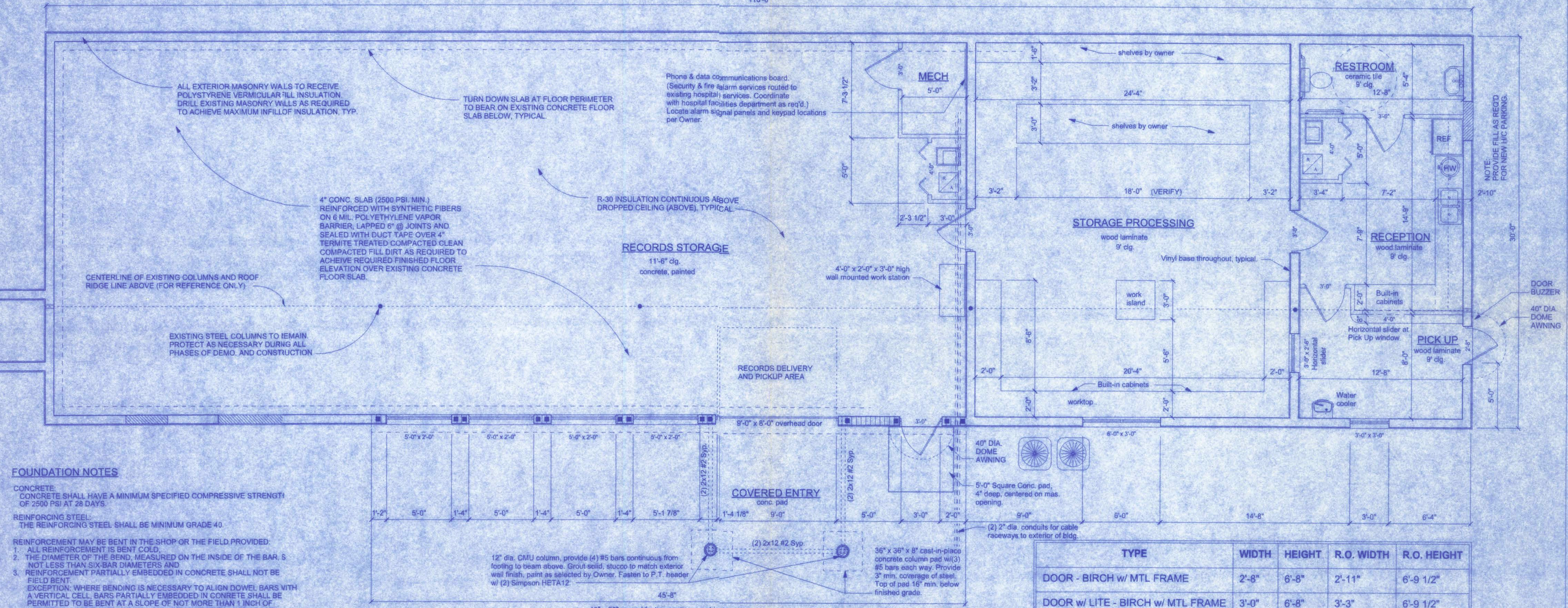
3 SECTION @ EAST ENTRANCE
SCALE: 1/4" = 1'-0"



4 SECTION @ EAST WINDOW
SCALE: 1/4" = 1'-0"



5 DETAIL @ THRU-BOLTED LINTEL
SCALE: 1" = 1'-0"



FOUNDATION NOTES

CONCRETE:
CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.

REINFORCING STEEL:
THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40.

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

1. ALL REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS AND
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

EXCEPTION: WHERE BENDING IS NECESSARY TO ALIGN DOWEL BARS WITH A VERTICAL CELL, BARS PARTIALLY EMBEDDED IN CONCRETE SHALL BE PERMITTED TO BE BENT AT A SLOPE OF NOT MORE THAN 1 INCH OF HORIZONTAL DISPLACEMENT TO 6 INCHES OF VERTICAL BAR LENGTH.

COVER OVER REINFORCING STEEL
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE:

- 3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER AND 1 1/2 INCHES ELSEWHERE. REINFORCING BARS EMBEDDED IN GROUTED CELLS SHALL HAVE A MINIMUM CLEAR DISTANCE OF 1/4 INCH FOR FINE GROUT OR 1/2 INCH FOR COARSE GROUT BETWEEN REINFORCING BARS AND ANY FACE OF A CELL. REINFORCING BARS USED IN MASONRY WALLS SHALL HAVE A MASONRY COVER (INCLUDING GROUT) OF NOT LESS THAN 2 INCHES FOR MASONRY UNITS WITH FACE EXPOSED TO EARTH OR WEATHER 1 1/2 INCHES FOR MASONRY UNITS NOT EXPOSED TO EARTH OR WEATHER.

GALVANIZATION:
METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT-DIPPED GALVANIZED.

NEW FLOOR PLAN
SCALE: 1/4" = 1'-0"

INTERIOR FINISH SCHEDULE					
ROOM	FLOORING	BASE	WALLS	CEILING	CLG. HEIGHT
RECORDS STORAGE	PAINTED CONC.	4" VINYL COVE	PAINTED CMU	SUSP. ACC. TILE	11'-6"
STORAGE PROCESSING	WOOD LAMINATE	4" VINYL COVE	GYP. BD., PAINTED	SUSP. ACC. TILE	9'-0"
RESTROOM	WOOD LAMINATE	4" VINYL COVE	GYP. BD., PAINTED	SUSP. ACC. TILE	9'-0"
RECEPTION	WOOD LAMINATE	4" VINYL COVE	GYP. BD., PAINTED	SUSP. ACC. TILE	9'-0"
PICKUP AREA	WOOD LAMINATE	4" VINYL COVE	GYP. BD., PAINTED	SUSP. ACC. TILE	9'-0"

NOTE: PROVIDE 2' x 4' x 5/8" ARMSTRONG CEILING PANELS WITH EXPOSED 15/16" GRID SYSTEM WITH R-30 BATT INSULATION ABOVE, TYPICAL.

AREA SUMMARY

RECORD STORAGE	2,150 SF
OFFICE AREA	1,150 SF
TOTAL	3,300 SF

TYPE	WIDTH	HEIGHT	R.O. WIDTH	R.O. HEIGHT
DOOR - BIRCH w/ MTL FRAME	2'-8"	6'-8"	2'-11"	6'-9 1/2"
DOOR w/ LITE - BIRCH w/ MTL FRAME	3'-0"	6'-8"	3'-3"	6'-9 1/2"
GARAGE DOOR	9'-0"	7'-0"	9'-3"	7'-1 1/2"
BIFOLD DOOR	4'-0"	6'-8"	4'-0"	6'-8"
BIFOLD DOOR	4'-0"	6'-8"	4'-0"	6'-8"
DOOR w/ LITE - BIRCH w/ MTL FRAME	3'-0"	6'-8"	3'-2"	6'-10"
WINDOW - FIXED GLASS	3'-0"	3'-0"	3'-0"	3'-0"
WINDOW - FIXED GLASS	6'-0"	3'-0"	6'-0"	3'-0"
WINDOW - HORIZONTAL SLIDER	4'-0"	3'-0"	4'-0"	3'-0"
WINDOW - HORIZONTAL SLIDER	3'-0"	2'-6"	3'-0"	2'-6"
WINDOW - FIXED GLASS	5'-0"	2'-0"	5'-0"	2'-0"

Wally Faye
11/28/06

SHANDS STORAGE BUILDING

161 NW MADISON STREET
SUITE #102
LAKE CITY, FL 32056
(386) 758-4209

CERTIFICATE OF AUTHORIZATION # 00008701



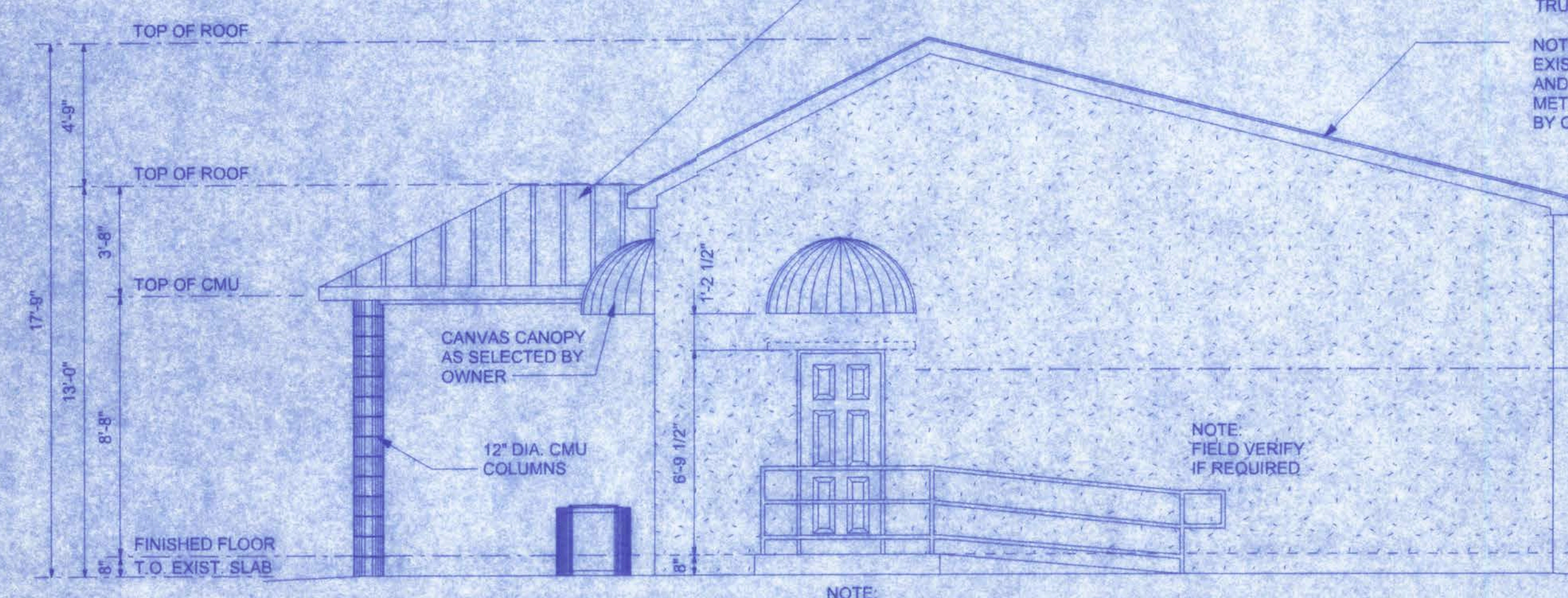
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11/28/06
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M.E.F.

SHEET
A-4
OF
5

PROJECT NO.
06.C032

26 GA. R-PANEL ROOFING TO BE INSTALLED PER MFG. RECOMMENDATIONS OVER 15/32" CDX PLYWOOD SHEATHING INSTALLED PERPENDICULAR TO ROOF TRUSSES WITH STAGGERED END JOINTS. NAIL WITH 8d COMMON NAILS @ 6" O.C. ON EDGES; AND 12" O.C. IN FIELDS OVER ENGINEERED WOOD TRUSSES @ 24" O.C. PROVIDE SIMPSON MTS12 @ EACH TRUSS, TYPICAL.

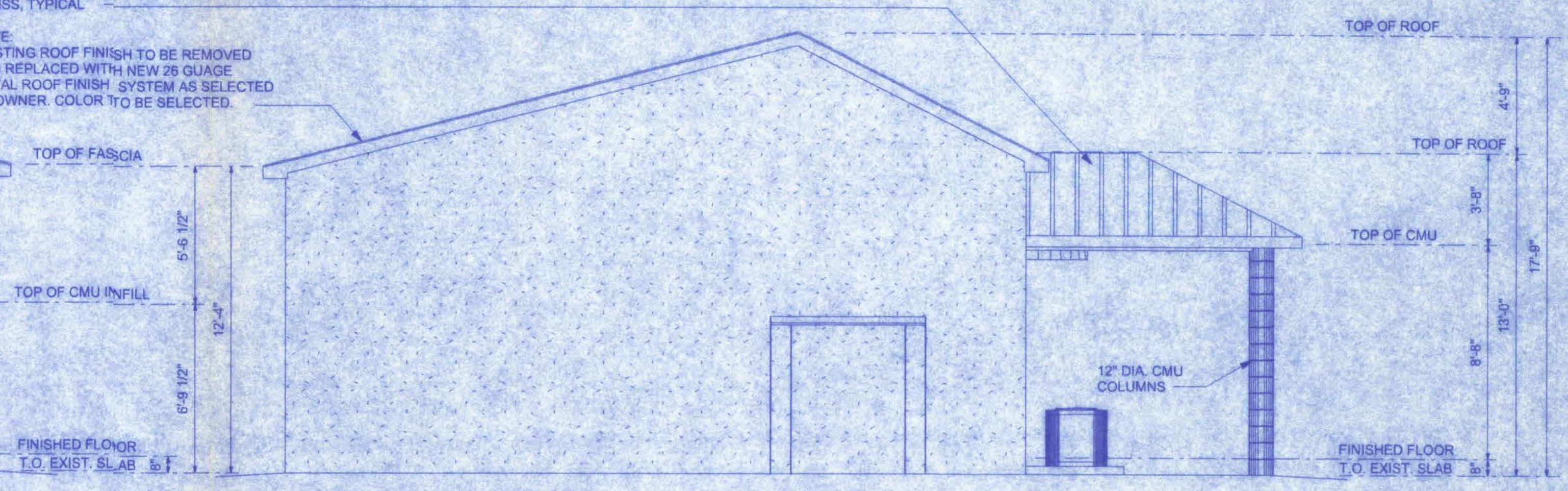
NOTE:
EXISTING ROOF FINISH TO BE REMOVED AND REPLACED WITH NEW 26 GAUGE METAL ROOF FINISH SYSTEM AS SELECTED BY OWNER. COLOR TO BE SELECTED.



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

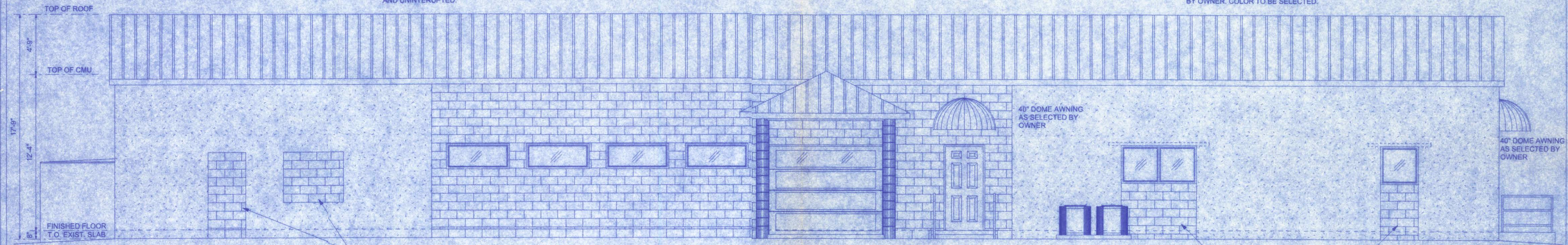
NOTE:
RAMP OPTION - SHOWN FOR REFERENCE ONLY. FIELD VERIFY FINAL RISE FROM FINISHED GRADE TO FINISHED FLOOR. RAMP MAY NOT BE REQUIRED.

NOTE:
FINAL RAMP LENGTH TO BE DETERMINED BY ACTUAL CHANGE IN HEIGHT FROM NEW FINISHED GRADE TO TOP OF NEW FINISHED FLOOR. PROVIDE 12" RUN PER EVERY INCH OF RISE REQUIRED. APPROACH TO RAMP TO BE LEVEL AND UNOBSTRUCTED. RUNS GREATER THAN 30' REQUIRE AN INTERMEDIATE LANDING WITH DEPTH TO BE EQUAL TO OR GREATER THAN THE WIDTH OF THE RAMP. HANDRAILS SHALL BE CONTINUOUS AND UNINTERRUPTED.



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

NOTE:
EXISTING ROOF FINISH TO BE REMOVED AND REPLACED WITH NEW 26 GAUGE METAL ROOF FINISH SYSTEM AS SELECTED BY OWNER. COLOR TO BE SELECTED.



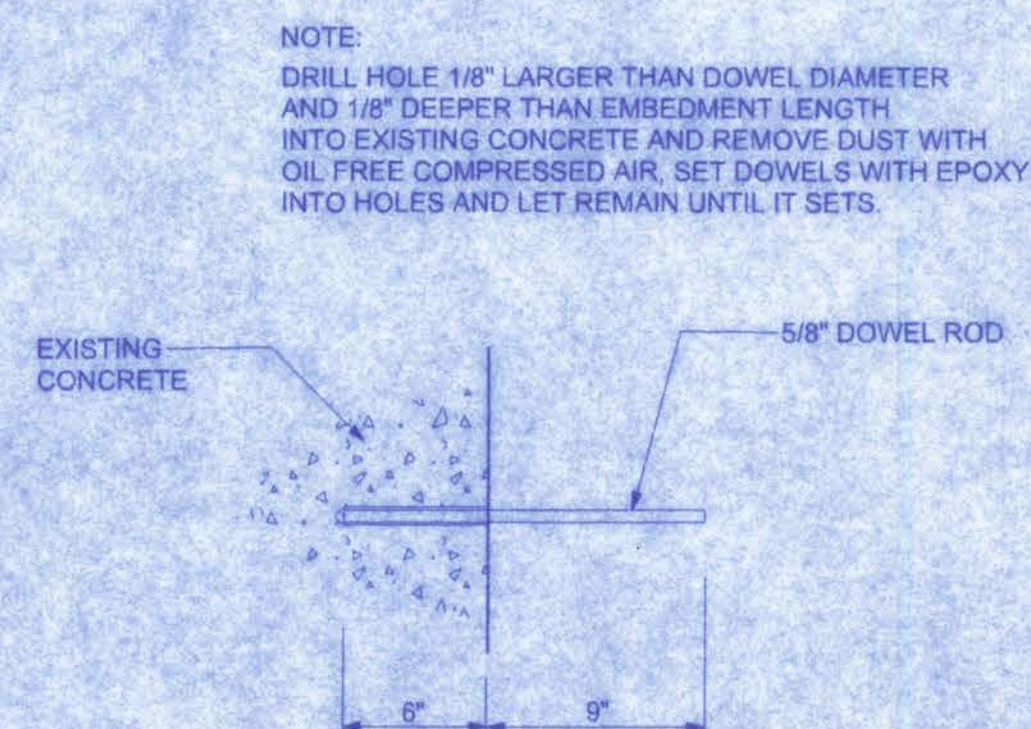
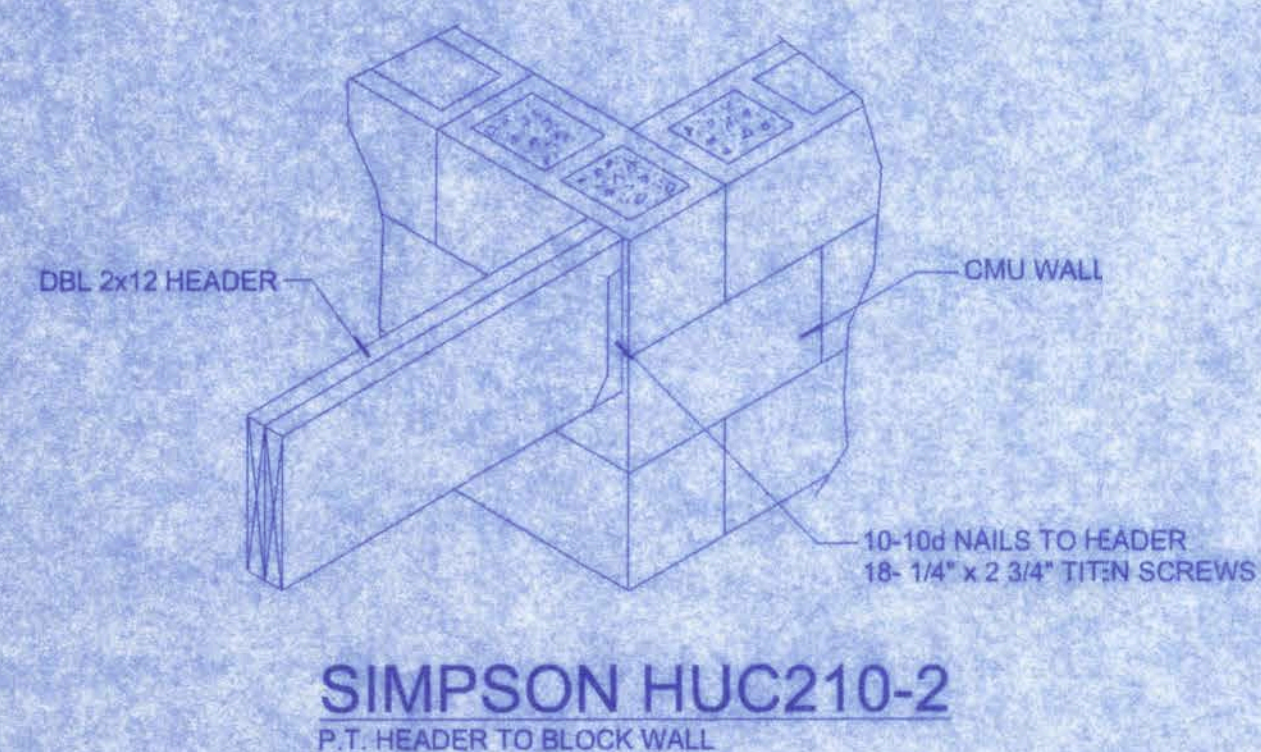
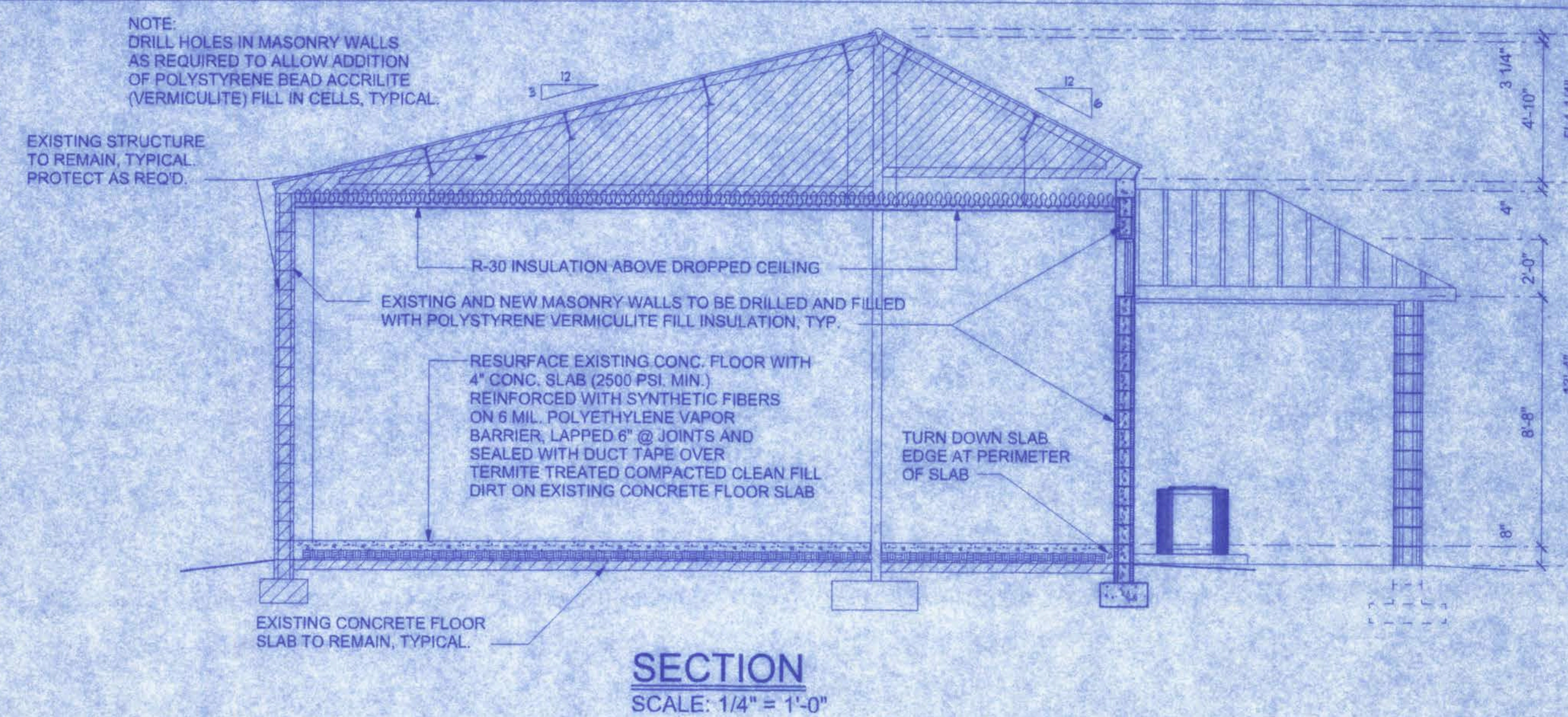
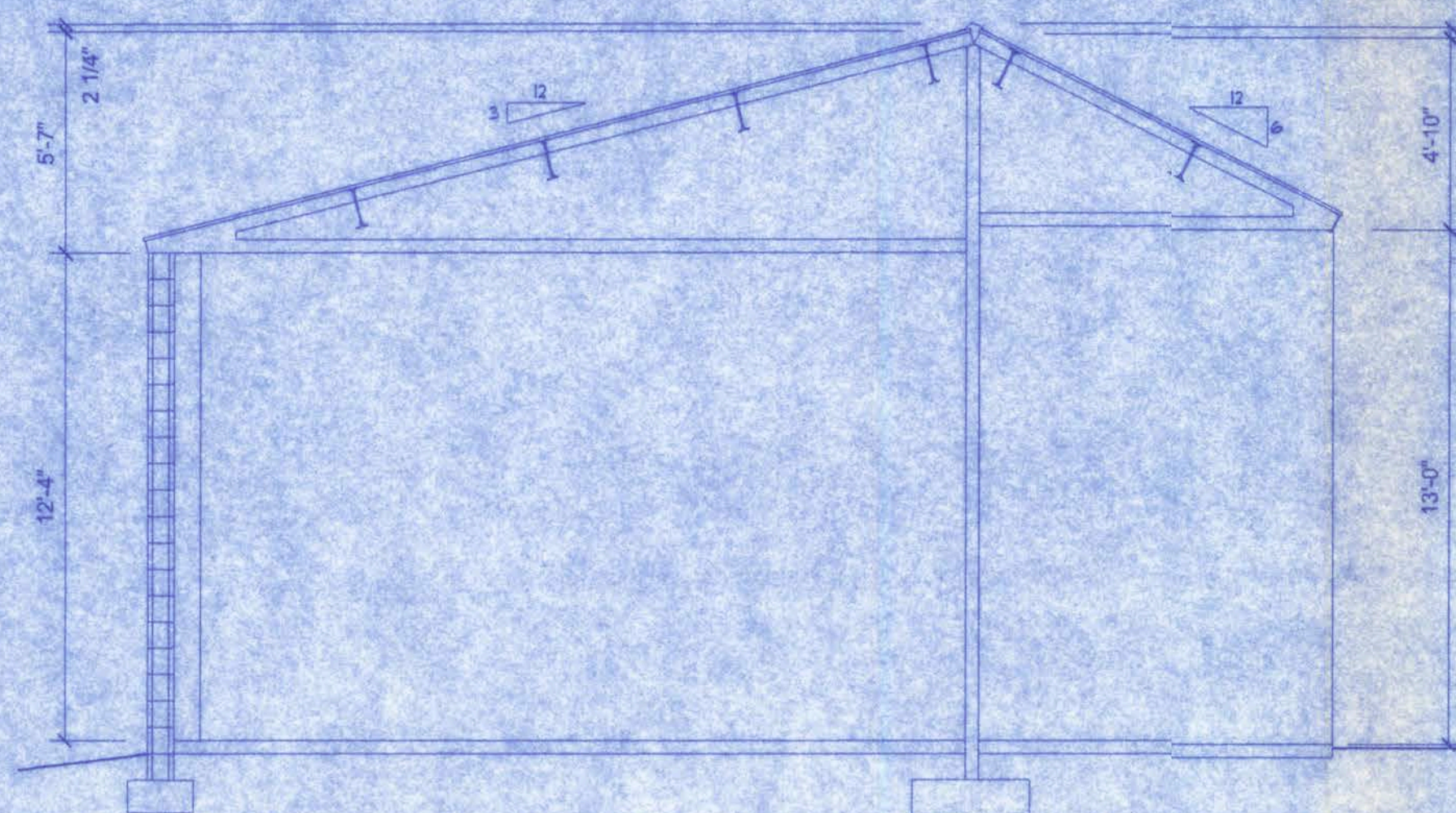
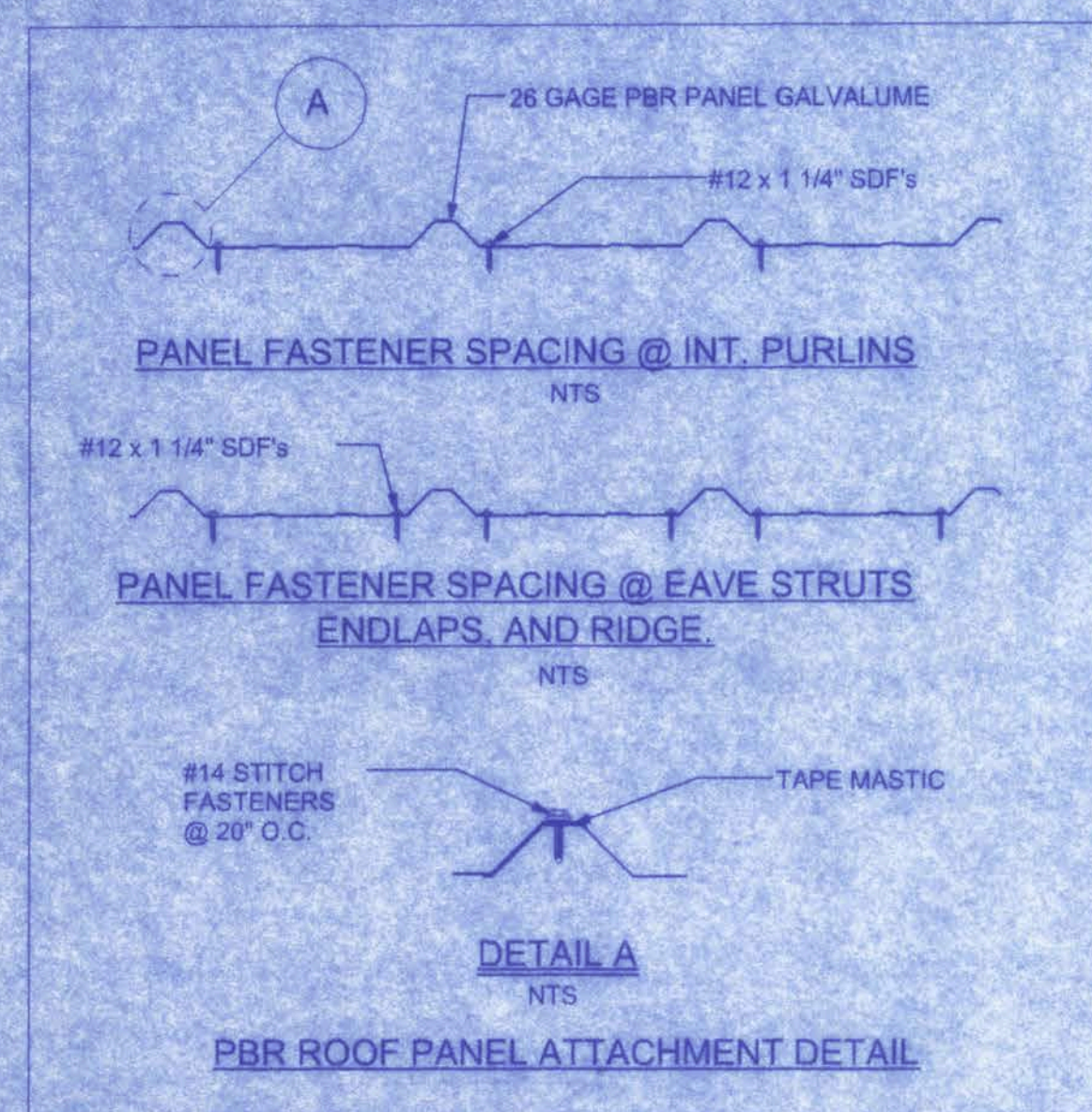
LEFT ELEVATION
SCALE: 1/4" = 1'-0"

CMU INFILL FINISH TO MATCH EXISTING ADJACENT WALL SURFACES.

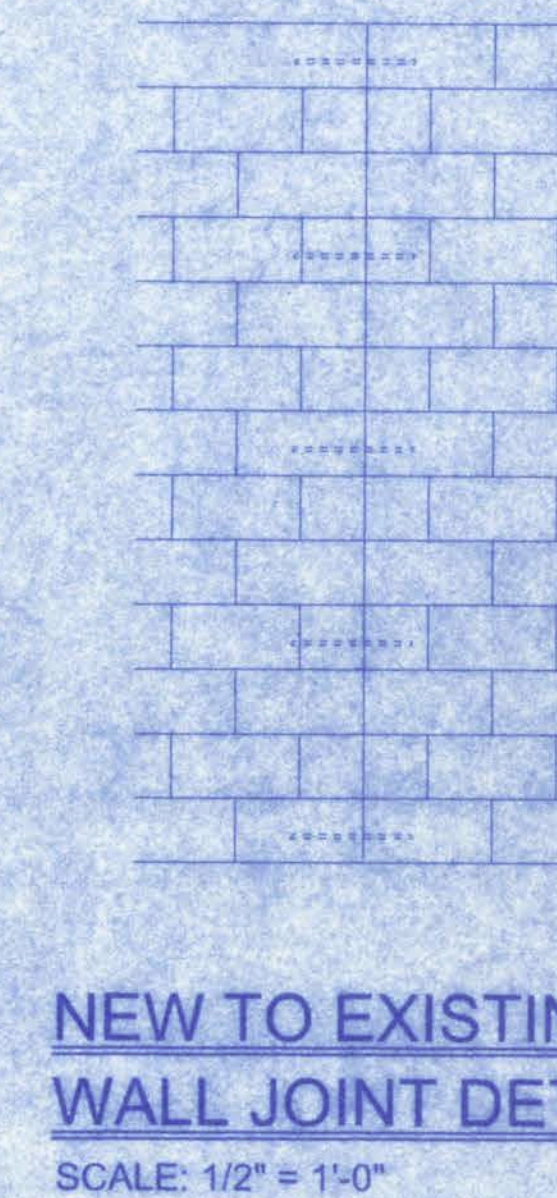
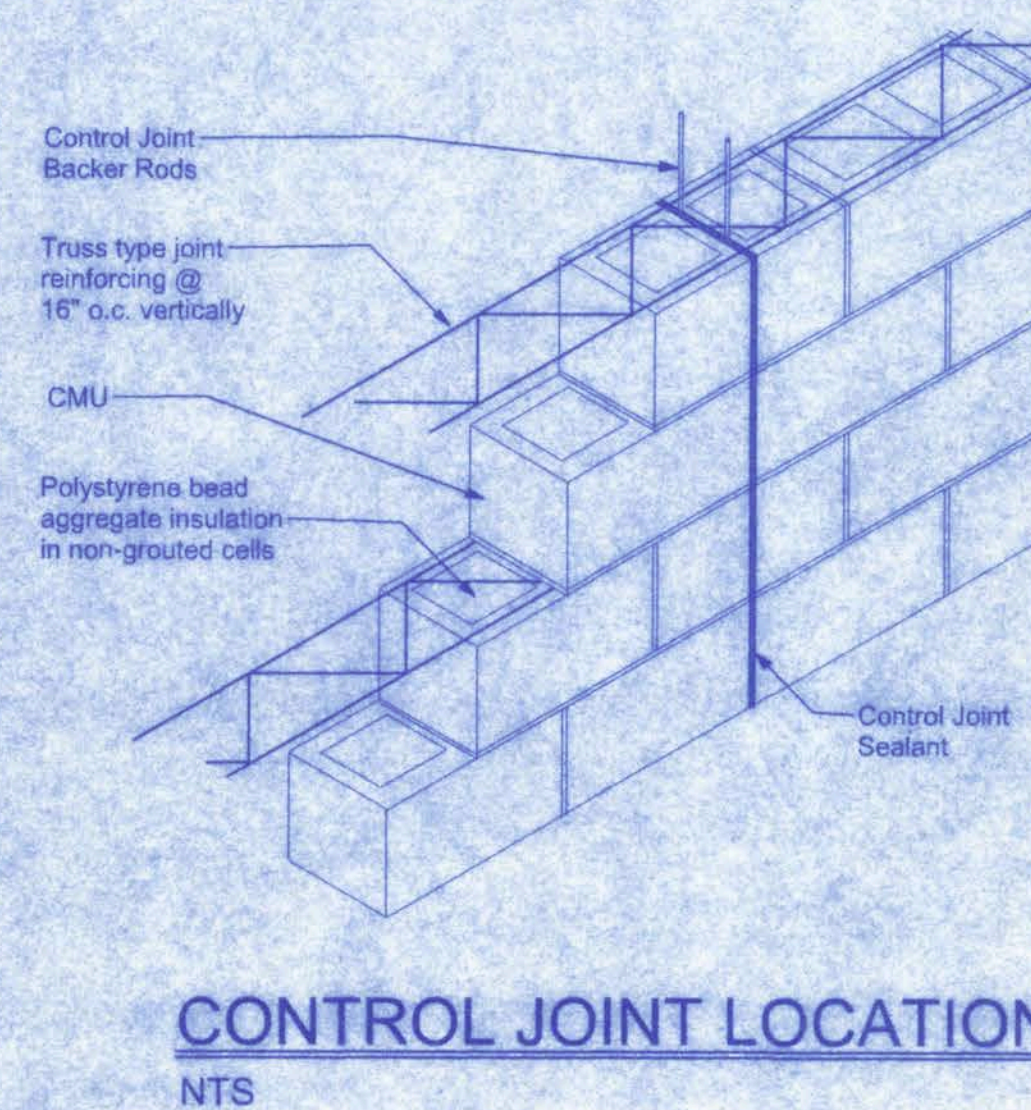
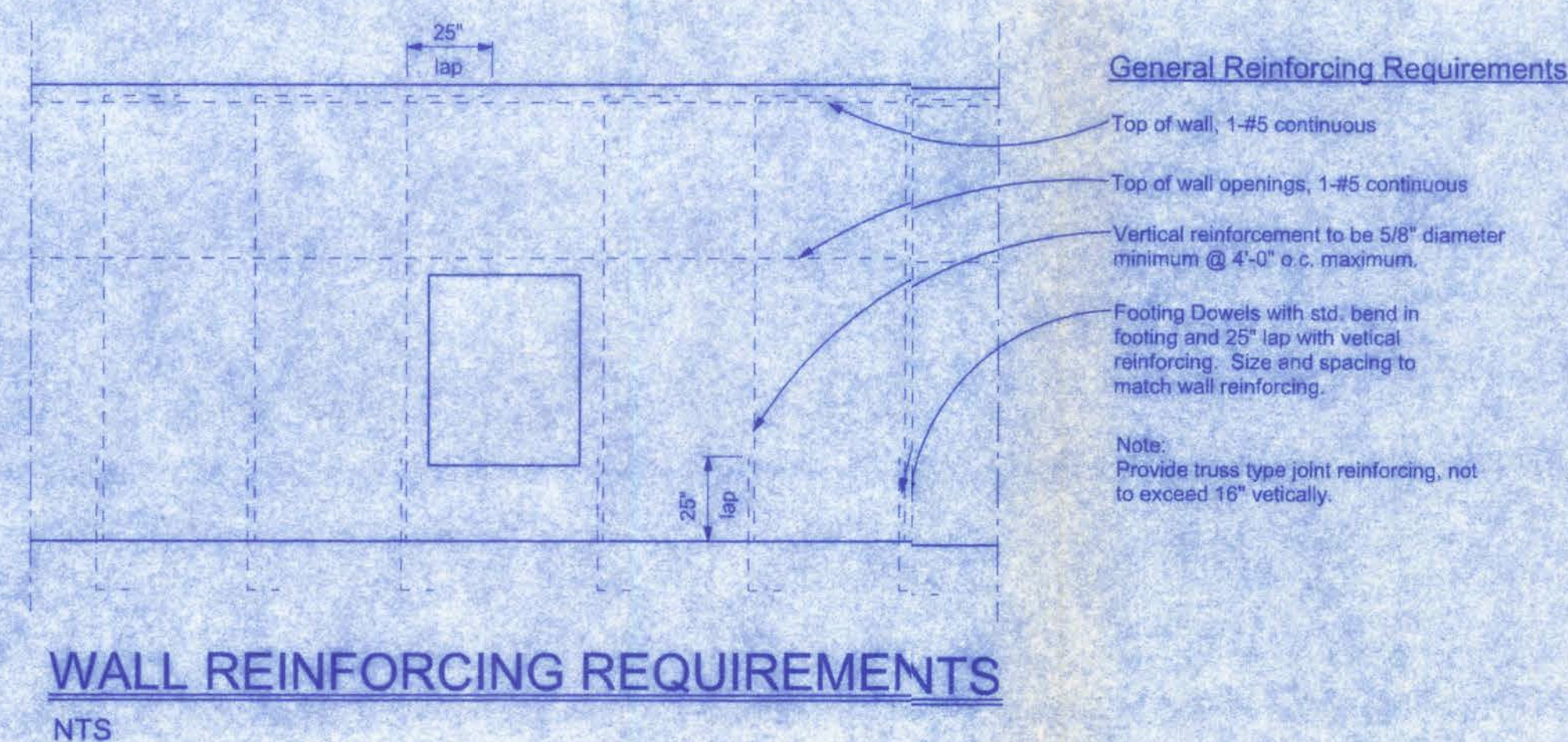
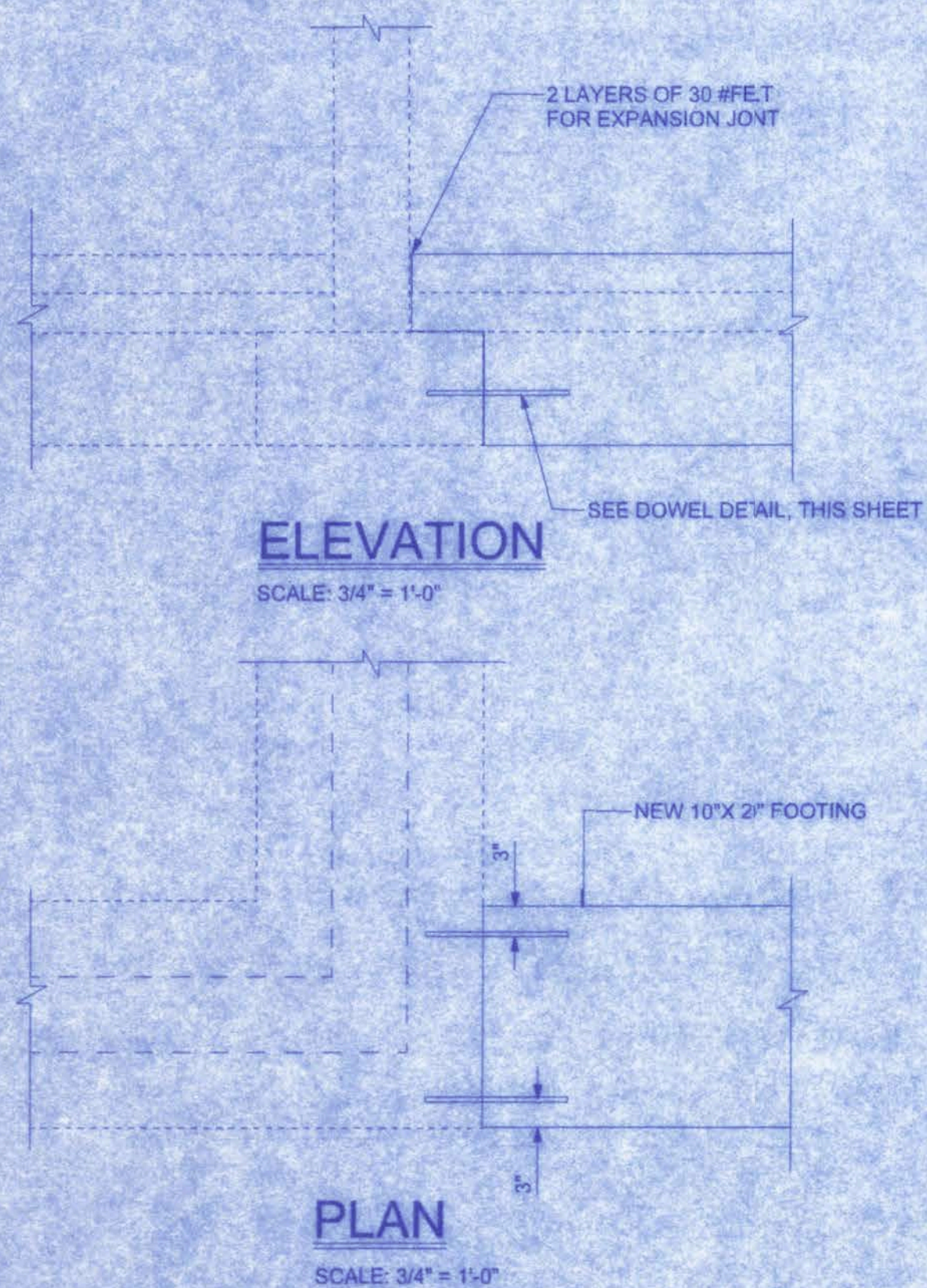
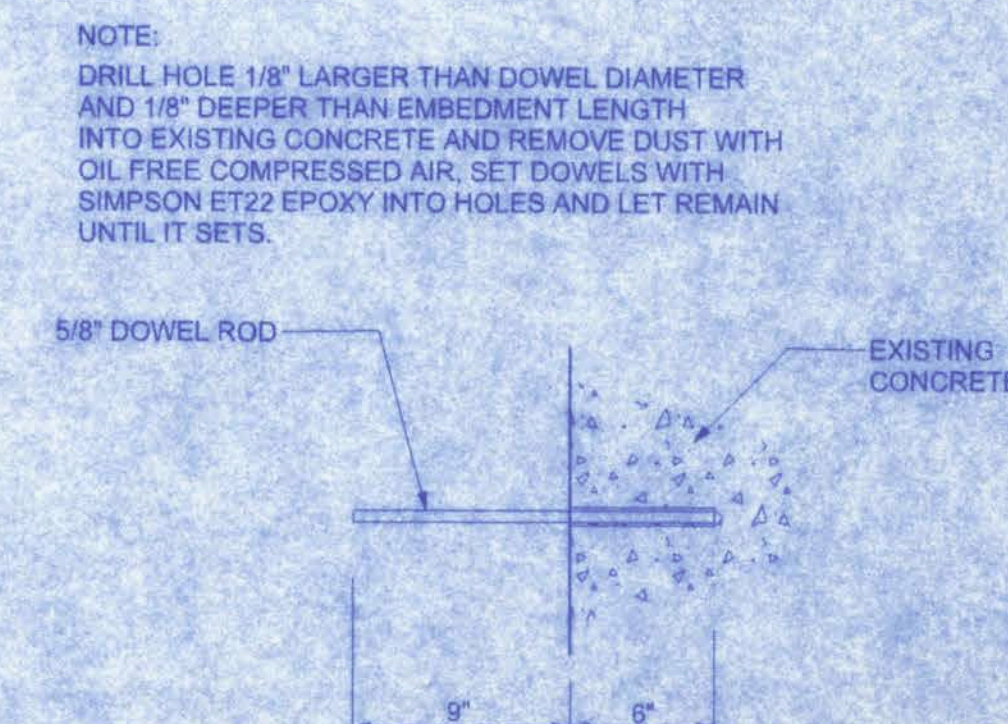
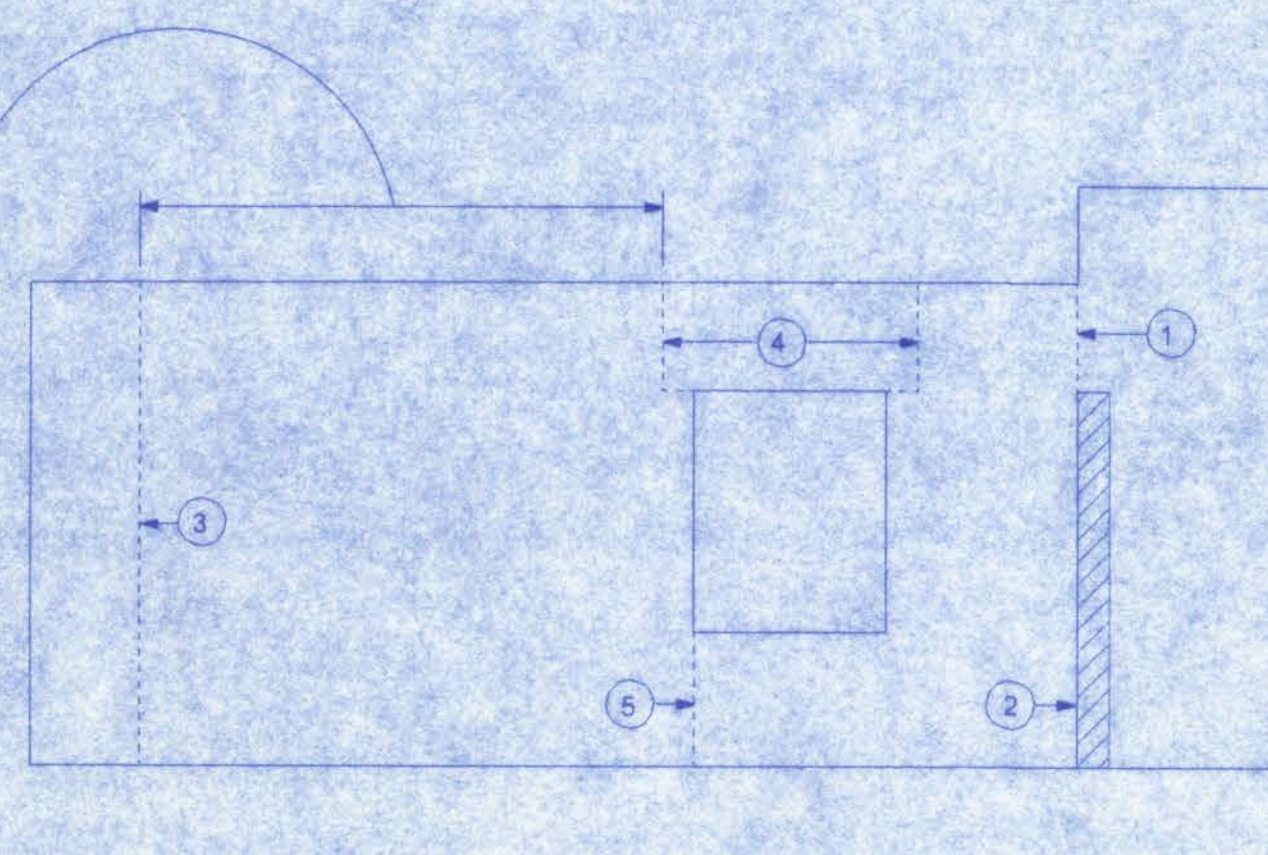
NOTE:
EXISTING ROOF FINISH TO BE REMOVED AND REPLACED WITH NEW 26 GAUGE METAL ROOF FINISH SYSTEM AS SELECTED BY OWNER. COLOR TO BE SELECTED.



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



- Control joints should be spaced every 100' to 125' along unbroken wall lengths and:
- 1 At changes in wall height or thickness
 - 2 At columns, pilasters, and wall intersections
 - 3 Near corners
 - 4 On both sides of openings > 6'
 - 5 On one side of openings < 6'



Shands Storage Building
11/28/06

SHANDS STORAGE BUILDING

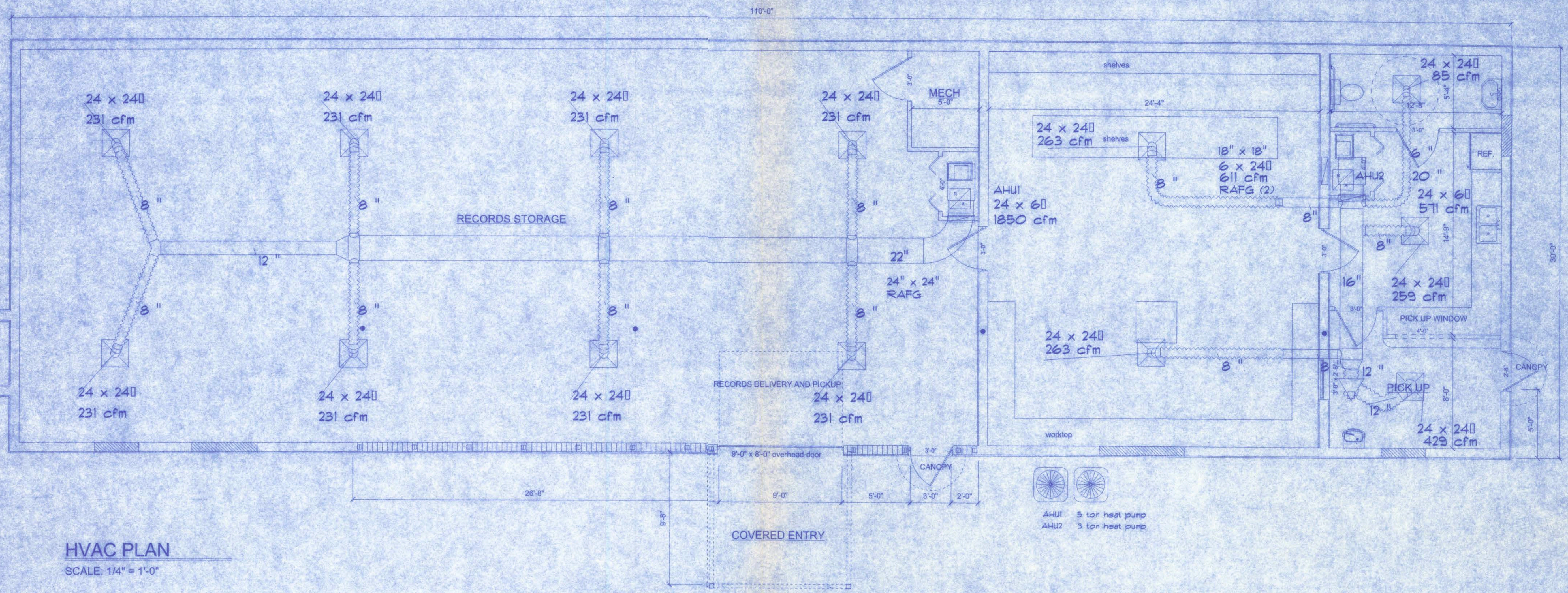
161 NW MADISON STREET

SUITE #102
LAKE CITY, FL 32055
(386) 758-4209

CERTIFICATE OF AUTHORIZATION # 00008701



DATE	DRAWN BY
11/28/06	M.E.F.
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SHEET M-1	
OF 1	
PROJECT NO. 06.C032	



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

HVAC NOTES:

- SUB-CONTRACTORS PROVIDING HVAC INSTALLATION SHALL BE SUBJECT TO THE PROVISIONS OF NOTES 1 THRU 6, GENERAL NOTES.
- HVAC SUB-CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, TOOLS AND EQUIPMENT TO INSTALL A COMPLETE HVAC SYSTEM.
- HVAC SYSTEM SHALL BE AS DETAILED IN THE PLANS (IF INCLUDED) OR SHALL BE AS DIRECTED BY THE OWNER IN CONSULTATION WITH THE HVAC SUB-CONTRACTOR.
- HVAC SUB-CONTRACTOR SHALL FURNISH SHOP DRAWINGS FOR DUCTWORK, CONDENSING UNIT & AIR HANDLER, EXHAUST FANS AND AIR DEVICES.
- IT IS THE HVAC SUB-CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH NFPA-90A AND ALL APPLICABLE CODES.
- FLEXIBLE DUCT SHALL BE FULLY ANNEALED, CORRUGATED ALUMINUM W/ 1 3/4 LB. DENSITY FIBERGLASS INSULATION AND SHALL BE UL LISTED. SHEET METAL DUCT SHALL BE LINED W/ 1" MATFACED DUCT LINER & WRAPPED W/ 1 3/4 L. FOILFACED FIBERGLASS INSULATION. ALL FIBERGLASS DUCT SHALL BE FOILFACED, R4 3/16 0 DUCTBOARD.
- ALL EXHAUST AND OUTSIDE AIR DUCT SHALL BE GALVANIZED SHEET METAL CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHREA AND SMACNA STANDARDS.
- ALL AIR DEVICES SHALL BE OF ALUMINUM CONSTRUCTION FOR WALL AND CEILING APPLICATIONS AND STEEL CONSTRUCTION IN FLOOR APPLICATIONS. ACCEPTABLE MANUFACTURERS SHALL BE TITUS, METALAIR, NAILORHART, HART & COOLIE OR AS DIRECTED BY THE OWNER.
- IF REQUIRED BY THE OWNER, THE HVAC SUB-CONTRACTOR SHALL SUPPLY A TEST AND BALANCE REPORT IN ACCORDANCE WITH AIR BALANCE COUNCIL STANDARDS, SIGNED AND SEALED BY A REGISTERED ENGINEER.
- HVAC SUB-CONTRACTOR SHALL SUPPLY ALL CONTRACTORS, RELAYS AND THERMOSTATS. THE ELECTRICAL SUB-CONTRACTOR SHALL PROVIDE ALL SWITCHES, DISCONNECTS & CONTROL WIRING. THERMOSTATS SHALL BE APPROVED BY THE EQUIPMENT MANUFACTURER.

- ALL DUCT SIZES INDICATED IN THE PLANS (IF INCLUDED) ARE NET INSIDE DIMENSION.
- ALL EQUIPMENT SHALL BE FULLY WARRANTED FOR 1 YEAR AND THE COMPRESSOR(S) SHALL BE WARRANTED 5 YEARS FROM DATE OF FINAL ACCEPTANCE, BY THE OWNER.
- ALL WORK IN THIS TRADE SHALL BE COORDINATED WITH ALL OTHER TRADES SO AS TO AVOID CONFLICTS OR HINDRANCE TO COMPLETION OF THE JOB.
- CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1.2" THICK ARMAFLEC INSULATION.
- FILTERS SHALL BE DISPOSABLE TYPE AND HAVE INITIAL SHARE WEIGHT ARRESTANCE OF 10% AND A CLEAN PRESSURE DROP OF 0.15 PROVIDE 2 SETS, ONE DURING CONSTRUCTION AND ONE FOR USE AT FINAL ACCEPTANCE.
- HVAC SUB-CONTRACTOR SHALL PROVIDE & INSTALL ALL NECESSARY OFFSETS, TRANSITIONS & BENDS REQUIRED TO PROVIDE A COMPLETE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
- IT IS THE RESPONSIBILITY OF THE HVAC SUB-CONTRACTOR TO COORDINATE LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTERS IN THE FIELD WITH THE ELECTRICIAN, LIGHTS AND ARCHITECTURAL ELEMENTS.
- COORDINATE W/ THE ELECTRICIAN, TO ASSURE SUITABLE SIZES OF BREAKER, SWITCHES AND WIRING.

REQUIRED OUTDOOR VENTILATION PER TABLE 403.3 FMC.

LOCATION	CFM/PERSON	TOTAL CFM
TOILET AREA	50 CFM/W.C.	50
BUSINESS AREA	1170 SF @ 7 PERSONS PER 1000 SF = 8 (1170 SF / 1000 = 8.19 or 9 PERSONS) 9 (20 CFM / PERSON) = 180 cfm	180
STORAGE AREA	2130 SF x 0.5 CFM = 1065 CFM (0.5 CFM / FT ²)	1065
GRAND TOTAL		1295

NOTE:

FIRE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF UL 555 AND SHALL BEAR THE LABEL OF AN APPROVED TESTING AGENCY. FIRE DAMPERS SHALL BE CLASSIFIED AND IDENTIFIED FOR USE IN EITHER:
1. STATIC SYSTEMS THAT AUTOMATICALLY SHUT DOWN IN THE EVENT OF FIRE.
2. DYNAMIC SYSTEMS THAT OPERATE IN THE EVENT OF FIRE.

NOTE:

FIRE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS IN THE FOLLOWING LOCATIONS:
1. DUCTS PENETRATING WALLS OR PARTITIONS HAVING A FIRE RESISTANCE RATING OF 1 HOUR OR MORE.
2. DUCTS PENETRATING SHAFT WALLS HAVING A FIRE RESISTANCE RATING OF 1 HOUR OR MORE.

NOTE:

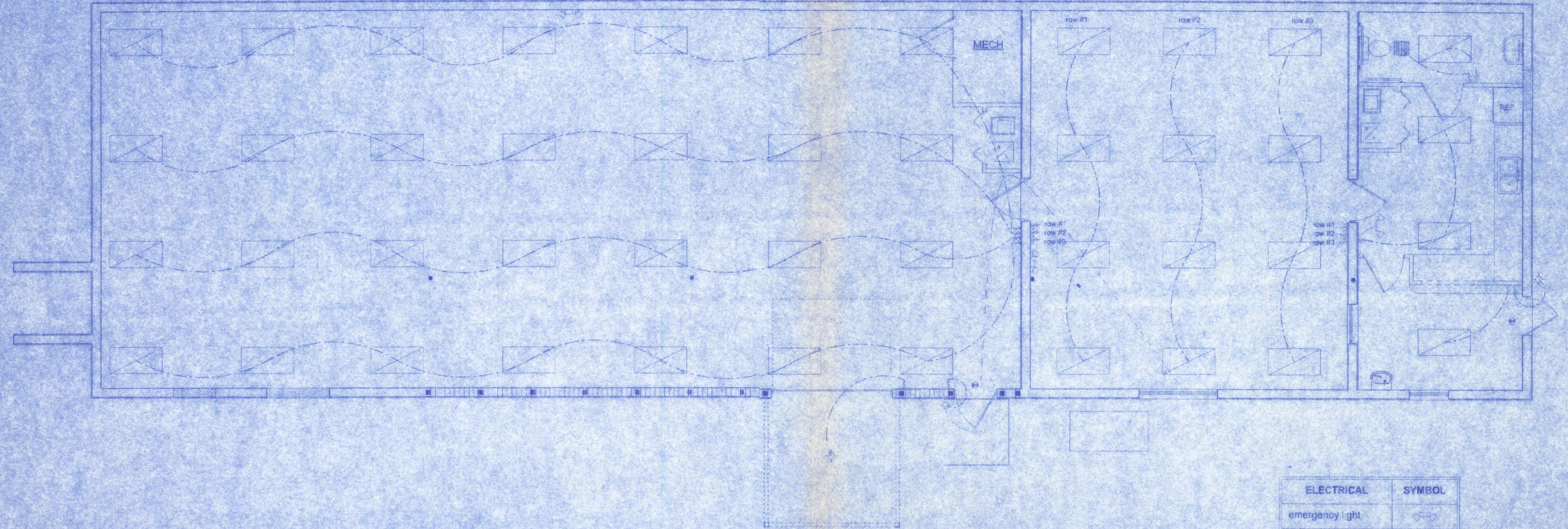
BATHROOM EXHAUST SHALL BE DIRECTED TO OUTSIDE OF BUILDING. EXHAUST AIR SHALL NOT BE DIRECTED ONTO WALKWAYS. AIR EXHAUST OPENINGS SHALL BE PROTECTED WITH CORROSION-RESISTANT SCREENS, LOUVERS OR GRILLS IF TERMINATING OUT DOORS.

NOTE:

CONDENSATE WASTE AND DRAIN LINE SIZE SHALL BE NOT LESS THAN 3/4" INTERNAL DIAMETER AND SHALL NOT DECREASE IN SIZE FROM THE DRAIN PAN CONNECTION TO THE PLACE OF CONDENSATE DISPOSAL.

NOTE:

CONDENSATE LINES AND ROOF DOWN SPOUTS SHALL DISCHARGE AT LEAST ONE FOOT AWAY FROM THE STRUCTURE SIDEWALL. IN CASES WHERE THE ROOF EAVE IS LESS THAN 6 INCHES, GUTTERS MUST BE INSTALLED AND DIRECT WATER A MINIMUM OF 1 FOOT FROM THE STRUCTURE.



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

ELECTRICAL	SYMBOL
emergency light	
exit	
50 cfm exhaust fan	
light	
switch	
switch 3 way	
fluorescent light 2 x 4	

LIFE SAFETY NOTES

ALL EXIT AND EMERGENCY LIGHTING SHALL BE INSTALLED PER NEC 700-12, 2001 EDITION.

ACCESS TO EXITS SHALL BE MARKED BY APPROVED READILY VISIBLE SIGNS IN ALL CASES WHERE THE EXIT OR WAY TO REACH THE EXIT IS NOT READILY APPARENT TO THE OCCUPANT'S. SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN THE EXIT ACCESS CORRIDOR IS MORE THAN 100 FT FROM THE NEAREST EXTERNALLY ILLUMINATED SIGN AND IS NOT IN EXCESS OF THE MARKED RATING FOR INTERNALLY ILLUMINATED SIGNS.

ALL FIRE EXTINGUISHERS SHALL BE TYPE 2A-10BC AND SHALL BE LOCATED SO THAT NO POINT IN THE DIRECTION OF TRAVEL FROM ANY POINT IS MORE THAN 75 FT TO THE FIRE EXTINGUISHER.

SHANDS STORAGE BUILDING

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SUITE #102
LAKE CITY, FL 32055
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CERTIFICATE OF AUTHORIZATION #00000701



Freeman
Design Group, Inc.

DATE: 11/28/06
DRAWN BY: M.E.F.

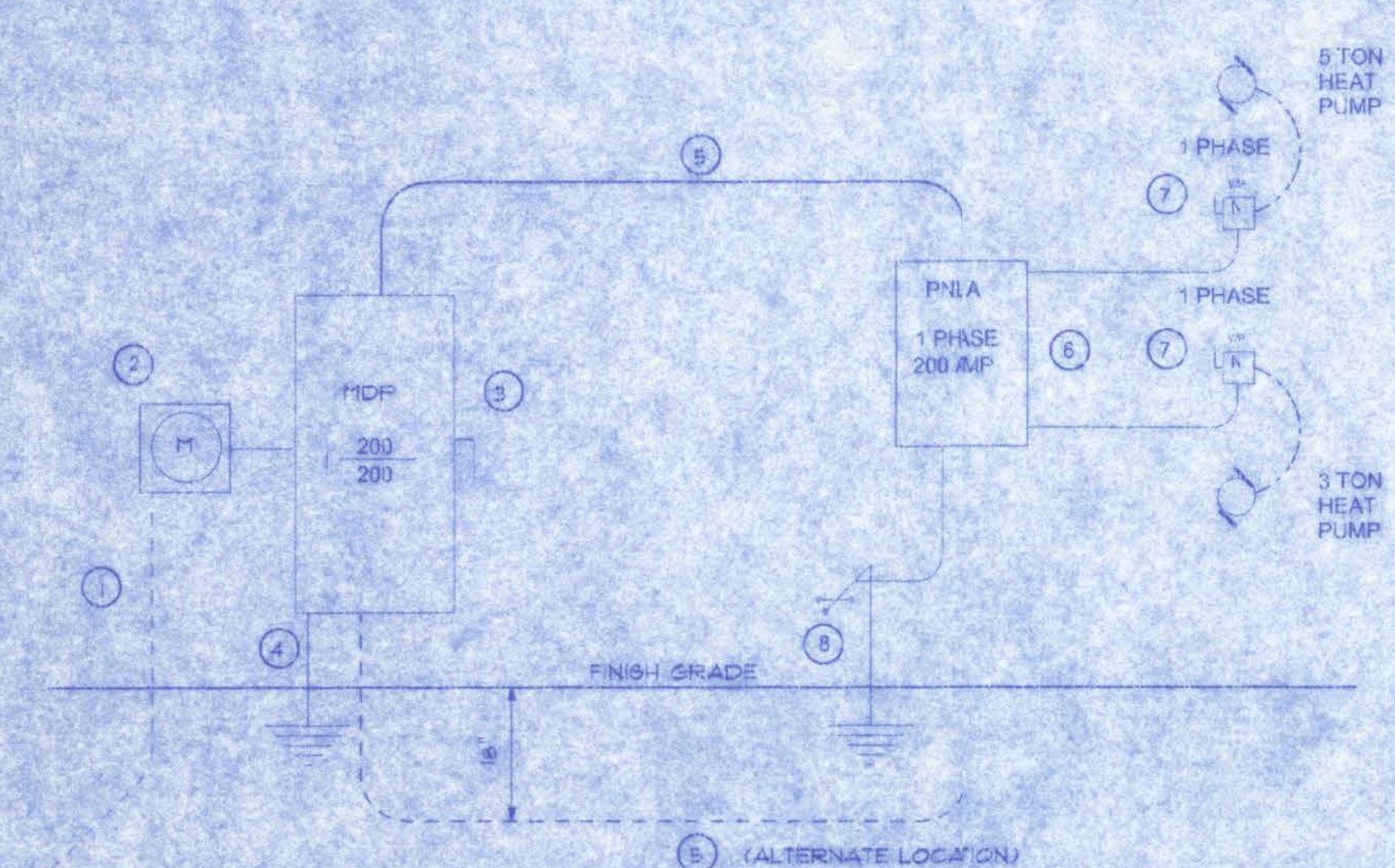
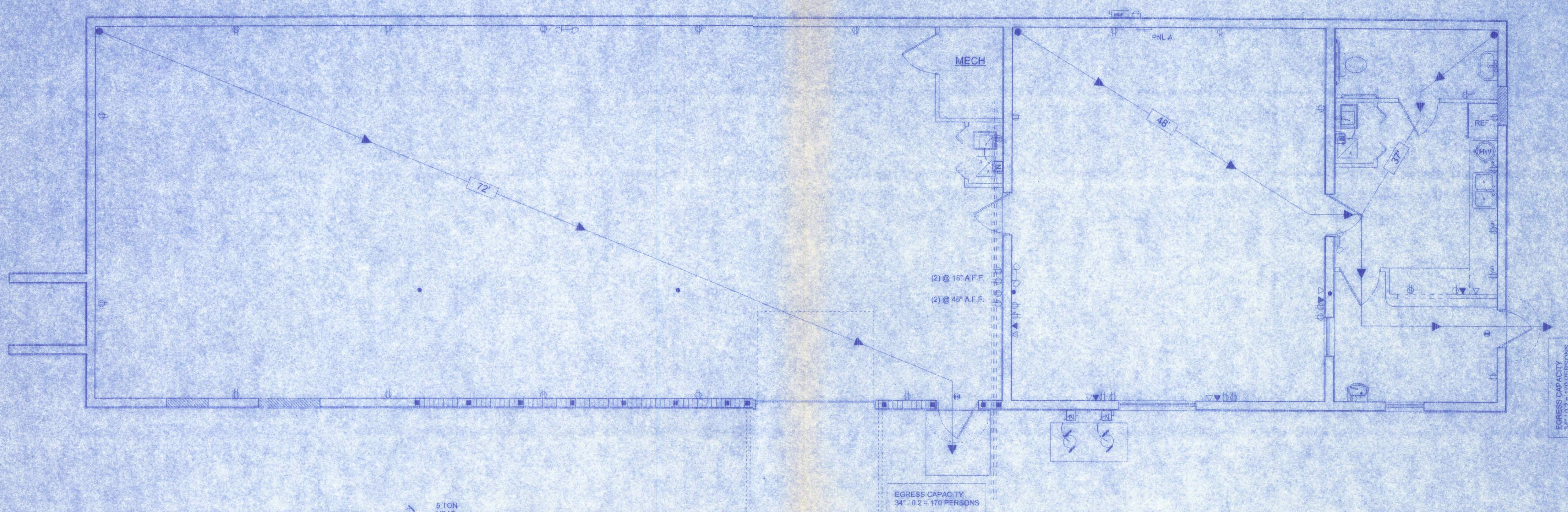
REVISIONS

SHEET: E-1

OF: 2

PROJECT NO:
05.C032

William H. Lee
11/28/06



NOTE:
The minimum AIC rating for panel boards, breakers and disconnect switches shall be 10,000 AIC.

ELECTRICAL PLAN

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

LOAD CALCULATIONS			
	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
CONTINUOUS GENERAL LIGHTING	5,160 VA	1.0	5,160 VA
NON-CONTINUOUS RECEPTACLES	7,200 VA	1.0	7,200 VA
SMALL APPLIANCES	1,500 VA	1.0	1,500 VA
AIR CONDITIONER	24,000 VA	1.0	24,000 VA
			TOTAL 37,860 VA
			@ 120/240 1 PHASE 157.75 AMPS
PROVIDED SERVICE			200 AMPS

ELECTRICAL PLAN NOTES

WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.

CONSULT THE OWNER FOR THE NUMBER OF SEPARATE TELEPHONE LINES TO BE INSTALLED.

INSTALLATION SHALL BE PER NAT'L. ELECTRIC CODE.

TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE SECTIONS OF NEC LATEST EDITION.

ELECTRICAL CONTR SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADD'NS TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT NO., DESCRIPTION & BRKR, SERVICE ENT, & ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIA. SHALL INCLUDE WIRE SIZES/TYPE & EQUIPMENT TYPE W/ RATINGS & LOADS.

CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.

PANEL BOARD SCHEDULE											
PANEL	PANEL		LOCATION		PANEL ROOM						
TYPE	SPLIT VOLT		MAIN DISC		ONLY		MAIN DISC		3		20
VOLTS	120/240		PHASE		1		WIRE		3		85
A.I.C. RATING	MED/ENCL		HEADER/DOOR		31/20/10/10		FEED TOP		X		
MOUNTING REFERENCE	X		RUSH				BOTTOM				
CABINET STANDARD	X										
TOTAL CIRCUITS	157.75										

WIRE	SIZE	CODE	APPLICATION	LG'D	CR	BRK	BRK	CR	LOAD	APPLICATION	COND.	UNC.	WIRE
10	12	1"	5 TON HEAT PUMP		1	30/2	50/22	2		AIR HANDLER	1"	10	6
					3			4					
10	12	1"	5 TON HEAT PUMP		5	30/2	40/22	6		AIR HANDLER	1"	10	8
					7			8					
12	12	1/2"	EXT. LIGHTING		9	20/1	20/1	10		BATHROOM	1/2"	12	12
12	12	1/2"	LIGHTING		11	20/1	20/1	12		SM. APPLIANCE	1/2"	12	12
12	12	1/2"	LIGHTING		13	20/1	20/1	14		LIGHTING	1/2"	12	12
12	12	1/2"	RECEPT		15	20/1	20/1	15		LIGHTING	1/2"	12	12
12	12	1/2"	RECEPT		17	20/1	20/1	18		RECEPT	1/2"	12	12
12	12	1/2"	RECEPT		19	20/1	20/1	20		EM. LIGHTS	1/2"	12	12
12	12	1/2"	SPACE		21	20/1	20/1	22		SPACE	1/2"	12	12
			SPACE		39			40		SPACE			

- Service/Feeder Entrance Conductors: 2 1/2" rigid conduit, min 18" deep w. continuous ground bonding conductor. Service/Feeder Entrance Conductors shall not be spliced except at bolted connections at the Meter Disconnecting Devices and Panel shall be allowed.
- Existing Meter Enclosure, weatherproof, U.L. Listed.
- Main Disconnect Switch, fused or Main Breaker, weatherproof, U.L. Listed.
- Service entrance ground: 5/8" diameter iron/steel rod x 8'-0" long and/or concrete encased foundation steel rebar x 20'-0" long. Grounding conductor shall be bonded to each piece of Service/Entrance Equipment, and shall be sized per table #5 below.
- 200 Ampere Feeder: 3-3/0-THW-Cu, 3-3-GND, 2 1/2" Conduit.
- House Panel (PNL), U.L. Listed, sized per schedule.
- Equipment Disconnect Switch, non-fused, in weather proof enclosure, size according to Panel Schedule load.
- Provide Ground Bond Joints to metal piping, size in accordance with the Service Ground Conductor.

ELECTRICAL	SYMBOL
recessed light with photovoltaic cell	☉
high pressure sodium wall pack	☼
HVAC motor	⚙
Mdp	Ⓜ
Meter can	Ⓜ
electrical panel	Ⓜ
emergency light with battery backup	☼
illuminated exit with battery backup	☼
non-fused disconnect	Ⓜ
50 cfm exhaust fan	Ⓜ
GFI receptacle	Ⓜ
incandescent light fixture	☼
outlet	Ⓜ
outlet 220v	Ⓜ
outlet gfi	Ⓜ
switch	Ⓜ
switch 3 way	Ⓜ
fluorescent light 2 x 4	☼

181 NW MADISON STREET
SUITE #102
LAKE CITY, FL 32055
(886) 758-4209

Freeman Design Group Inc.

DATE: 11/28/06
DRAWN BY: WEP

REVISIONS

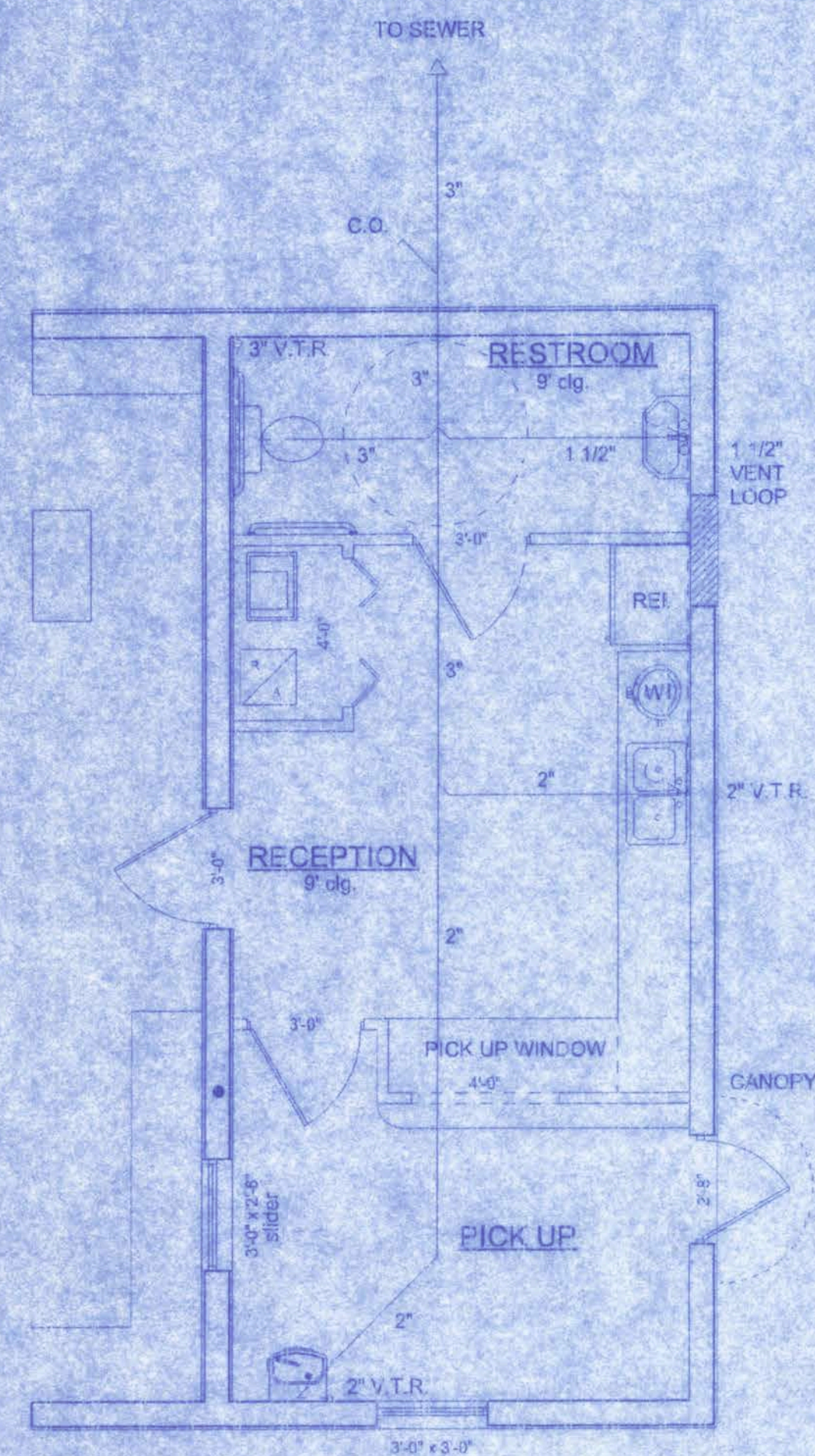
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OF 2

PROJECT NO. 05C032

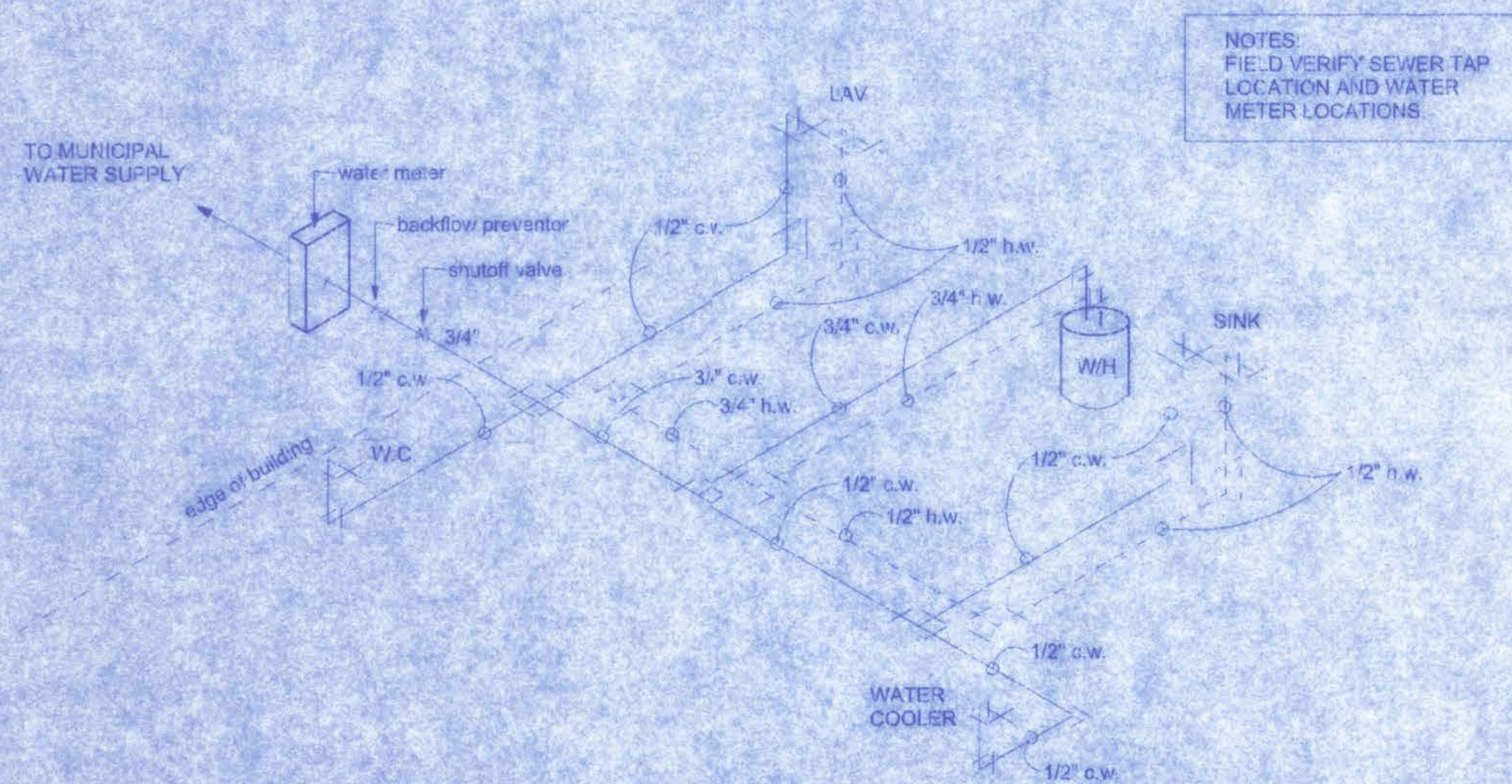
CERTIFICATE OF AUTHORIZATION # 00003701

WEP
11/28/06

SHANDS STORAGE BUILDING



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



SUPPLY RISER
NTS

NOTES:
FIELD VERIFY SEWER TAP LOCATION AND WATER METER LOCATIONS.

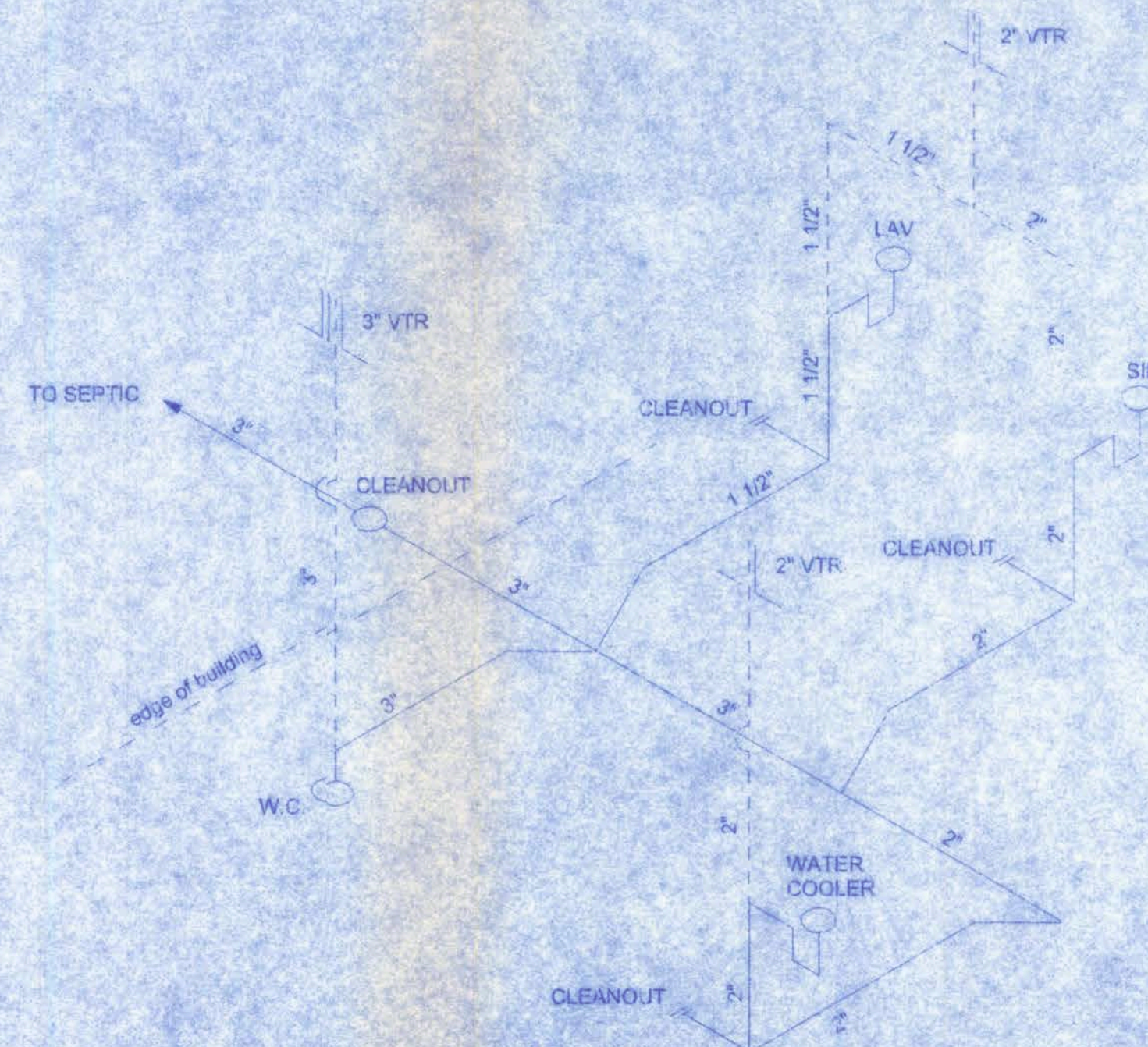
FIXTURE SCHEDULE

QTY	DESCRIPTION
1	STERLING STAINLESS STEEL DOUBLE BOWL SINK #B822
1	STERLING KITCHEN FAUCET #LCB26R W/ WRIST BLADE HANDLES

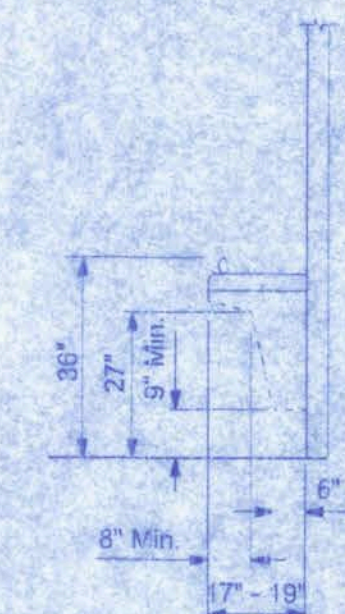
QTY	DESCRIPTION
1	AMERICAN STANDARD #2216 143 (WHITE) HANDICAP CADET II TOILET COMBINATION
1	REMIS #1200T (WHITE) ELONGATED OPEN FRONT TOILET SEAT LESS COVER
1	1 1/2" X 24" GRAB BAR ON WALL BEHIND TOILET
1	1 1/2" X 42" GRAB BAR ON WALL RIGHT SIDE OF TOILET
1	BRIGGS #6801 (WHITE) 4" CC 20" X 18" WALL HUNG LAVATORY WITH 5" SPLASH BACK
1	DELTA #520 TFW (CHROME) LAVATORY FAUCETS WITH BLADE HANDLE

- PLUMBING NOTES:**
- ALL WORK SHALL BE IN ACCORDANCE WITH THE STANDARD BUILDING CODE AND LOCAL REGULATION.
 - ALL PLUMBING SHALL BE BID AS SPECIFIED OR OF EQUAL VALUE.
 - PROVIDE COLD WATER TO ALL PLUMBING FIXTURES AND HOT WATER TO ALL LAVATORIES.
 - PROVIDE DRAIN TO WATER HEATERS.
 - PROVIDE A SLOPE ON ALL WASTE LINES OF 1/8" PER FOOT OF RUN (MINIMUM) UNLESS OTHERWISE NOTED ON THE PLANS.
 - ALL WASTE LINES SHALL BE PVC DWN.
 - ALL WATER LINES SHALL BE CPVC PIPE AND FITTINGS.
 - INSTALL AIR CHAMBERS AS NEEDED.
 - WATER SERVICE SHALL BE SCH. 40 PVC 1 1/4" OR AS NECESSARY TO PROVIDE NECESSARY WATER PRESSURE FOR PLUMBING FIXTURES TO WORK PROPERLY.
 - ALL ROOF FLASHING SHALL BE GALVANIZED WITH NEOPRENE COLLARS.
 - ALL WATER PIPES, WHERE PASSING THROUGH MASONRY WALL OR CONCRETE SHALL HAVE PROTECTIVE SLEEVES.
 - PROVIDE PIPE SLEEVES OR CONCRETE RELIEVING ARCH AT ALL LOCATIONS WHERE SANITARY PIPES PASS UNDER OR THROUGH CONCRETE FOOTINGS OR FOUNDATION ALL IN ACCORDANCE WITH THE STANDARD PLUMBING CODE.
 - ALL PVC PIPE SHALL BE SCHEDULE 40.
 - SPECIFY IN BID HOW MANY FEET OF SEWER AND WATER PIPE IS INCLUDED IN BID. SPECIFY PRICE PER FOOT FOR ADDITIONAL SEWER AND WATER PIPE.
 - ALL PLUMBING FIXTURES AND LABOR SHALL HAVE A STANDARD ONE YEAR WARRANTY FROM ISSUANCE OF CERTIFICATE OF OCCUPANTS.
 - ANY CHANGES TO THE PLUMBING THAT WILL RESULT IN PRICE INCREASE OR DECREASE SHALL NOT BE DONE UNTIL A WRITTEN CHANGE ORDER IS IN PLACE.

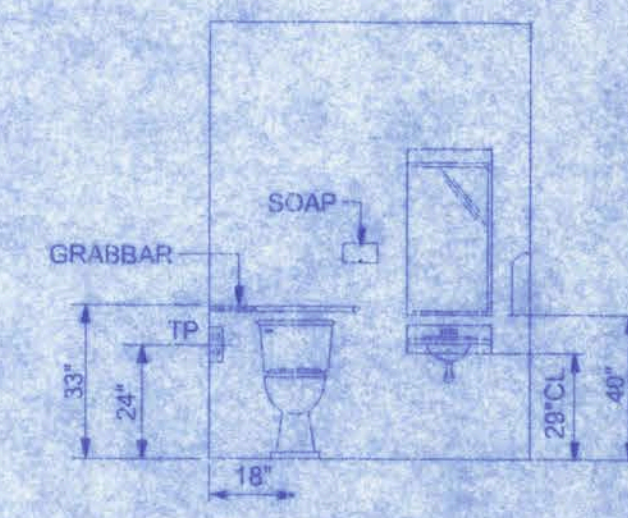
- NOTES:**
- THE SUCCESSFUL PLUMBING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS IF DIFFERENT FROM PLANS AND CUT SHEETS ON ALL FIXTURES AND FAUCETS TO BE USED.
 - ALL PLUMBING SHALL BE BID AS SPECIFIED OR OF EQUAL VALUE.



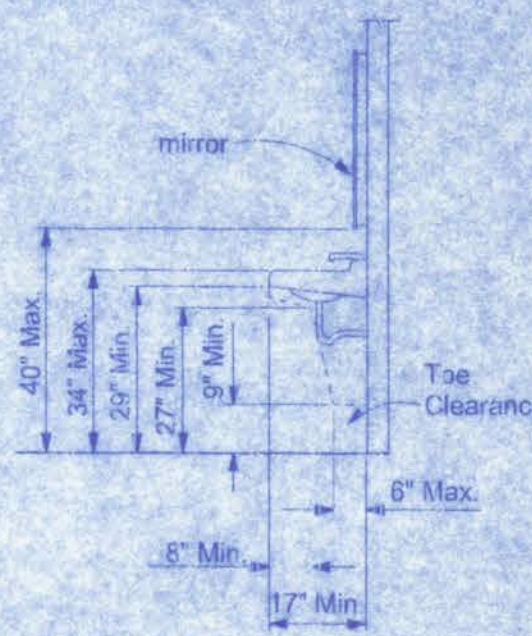
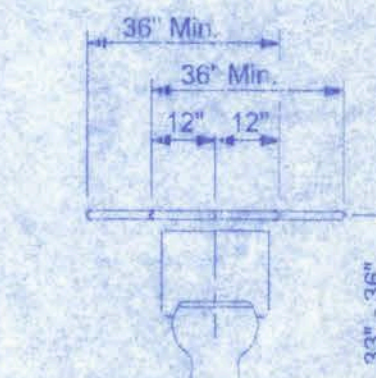
SANITARY RISER
NTS



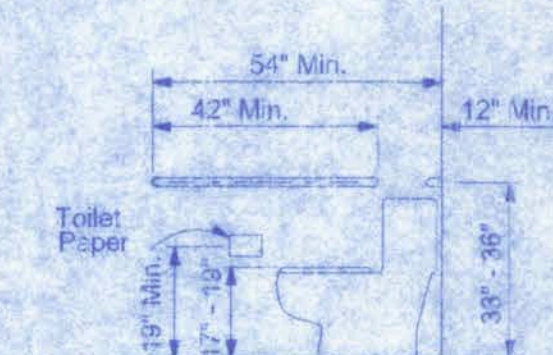
WATER COOLER CLEARANCES



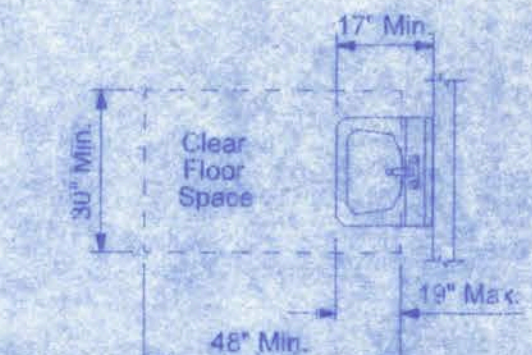
TYP. - HC STALL



LAVATORY CLEARANCES



GRAB BARS AT WATER CLOSETS



CLEAR FLOOR SPACE AT LAVATORIES

HANDICAPPED ACCESSIBLE CONSTRUCTION DETAILS

SHANDS STORAGE BUILDING

161 NW MADISON STREET
SUITE #102
LAKE CITY, FL 32055
(386) 768-4209

Freeman
Design Group Inc.

DATE: 11/28/01
DRAWN BY: M.E.F.

REVISIONS

SHEET: P-1

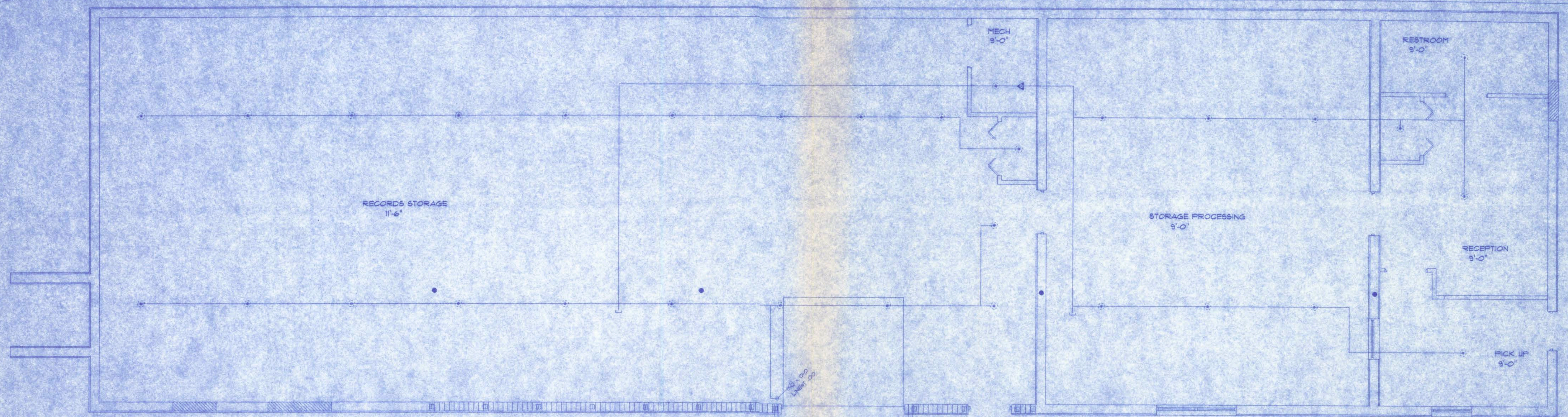
OF: 1

PROJECT NO: 06.C032

CERTIFICATE OF AUTHORIZATION # 00008701

11/28/01
11/28/01

W. Bill H. Lee
11/28/06



FIRE PROTECTION REQUIREMENTS
(AS DERIVED FROM "LIFE SAFETY CODE HANDBOOK")

9.6.1.3 - FIRE ALARM SYSTEM REQUIRED FOR LIFE SAFETY SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF NFPA 70, NEC, AND NFPA 72, NFAC (NATIONAL FIRE ALARM CODE).

9.6.1.8 - THE FIRE ALARM SYSTEM SHALL PROVIDE FUNCTIONS FOR INITIATION, NOTIFICATION, AND CONTROL, WHICH SHALL PERFORM AS FOLLOWS:
(1) - THE INITIATION FUNCTION PROVIDES THE INPUT SIGNAL TO THE SYSTEM.
(2) - THE NOTIFICATION FUNCTION IS THE MEANS BY WHICH THE SYSTEM ADVISES THAT HUMAN ACTION IS REQUIRED IN RESPONSE TO A PARTICULAR CONDITION.
(3) - THE CONTROL FUNCTION PROVIDES OUTPUTS TO CONTROL BUILDING EQUIPMENT TO ENHANCE PROTECTION OF LIFE.

9.6.2.1 - MANUAL FIRE ALARM BOXES SHALL BE APPROVED FOR THE PARTICULAR APPLICATION AND SHALL BE USED ONLY FOR FIRE-PROTECTIVE SIGNALING PURPOSES. COMBINATION FIRE ALARM AND GUARD'S TOUR STATIONS SHALL BE ACCEPTABLE.

9.6.2.3/4 - A MANUAL FIRE ALARM BOX SHALL BE PROVIDED IN THE NATURAL EXIT ACCESS PATH NEAR EACH REQUIRED EXIT FROM AN AREA. ADDITIONAL MANUAL FIRE ALARM BOXES SHALL BE LOCATED SO THAT NO HORIZONTAL DISTANCE ON THAT FLOOR EXCEEDING 80m (260 FT) SHALL NEED TO BE TRAVERSED TO REACH A MANUAL FIRE ALARM BOX.

9.6.2.5/6 - NOT LESS THAN ONE FIRE ALARM BOX SHALL BE PROVIDED TO INITIATE A FIRE ALARM SIGNAL. THE MANUAL FIRE ALARM BOX SHALL BE LOCATED WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION. EACH MANUAL FIRE ALARM BOX ON A SYSTEM SHALL BE ACCESSIBLE, UNOBSTRUCTED, AND VISIBLE.

9.6.2.7 - WHERE A SPRINKLER SYSTEM PROVIDES AUTOMATIC DETECTION AND ALARM SYSTEM INITIATION, IT SHALL BE PROVIDED WITH AN APPROVED ALARM INITIATION DEVICE THAT OPERATES WHEN THE FLOW OF WATER IS EQUAL TO OR GREATER THAN THAT FROM A SINGLE AUTOMATIC SPRINKLER.

9.6.2.8 - AUTOMATIC DETECTION OF SMOKE IN ACCORDANCE WITH NFPA 72, NATIONAL FIRE ALARM CODE, SHALL BE PROVIDED IN ALL OCCUPIABLE AREAS, COMMON AREAS, AND WORK SPACES IN ENVIRONMENTS THAT ARE SUITABLE FOR PROPER SMOKE DETECTOR OPERATION.

9.6.2.10.2 - SMOKE ALARMS SHALL RECEIVE THEIR OPERATING POWER FROM THE BUILDING ELECTRICAL SYSTEM.

9.6.2.10.4 - SMOKE ALARMS LOCATED WITHIN A DWELLING UNIT SHALL SOUND ONLY WITHIN AN INDIVIDUAL DWELLING UNIT, SUITE OF ROOMS, OR SIMILAR AREA AND SHALL NOT ACTUATE THE BUILDING FIRE ALARM SYSTEM, UNLESS OTHERWISE PERMITTED BY THE AUTHORITY HAVING JURISDICTION. REMOTE ANNUNCIATION SHALL BE PERMITTED.

9.6.3.1 - OCCUPANT NOTIFICATION SIGNAL SHALL BE PROVIDED TO ALERT OCCUPANTS OF A FIRE OR OTHER EMERGENCY.

9.6.3.3 - A PRESIGNAL SYSTEM SHALL BE PERMITTED WHERE THE INITIAL FIRE ALARM SIGNAL IS AUTOMATICALLY TRANSMITTED WITHOUT DELAY TO A MUNICIPAL FIRE DEPARTMENT, TO A FIRE BRIGADE (IF PROVIDED), AND TO AN ON-SITE STAFFPERSON TRAINED TO RESPOND TO A FIRE EMERGENCY.

9.6.3.5 - NOTIFICATION SIGNALS FOR OCCUPANTS TO EVACUATE SHALL BE AUDIBLE AND VISIBLE SIGNALS IN ACCORDANCE WITH NFPA 72, NATIONAL FIRE ALARM CODE, AND ICC/ANSI A117.1, AMERICAN NATIONAL STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, OR OTHER MEANS OF NOTIFICATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION SHALL BE PROVIDED.

9.6.3.6 - WHERE OCCUPANTS ARE INCAPABLE OF EVACUATING THEMSELVES BECAUSE OF AGE, PHYSICAL OR MENTAL DISABILITIES, OR PHYSICAL RESTRAINT, THE PRIVATE OPERATING MODE AS DESCRIBED IN NFPA 72, NATIONAL FIRE ALARM CODE, SHALL BE PERMITTED TO BE USED. ONLY THE ATTENDANTS AND OTHER PERSONNEL REQUIRED TO EVACUATE OCCUPANTS FROM A ZONE, AREA, FLOOR, OR BUILDING SHALL BE REQUIRED TO BE NOTIFIED. THE NOTIFICATION SHALL INCLUDE MEANS TO RAPIDLY IDENTIFY THE ZONE, AREA, FLOOR, OR BUILDING IN NEED OF EVACUATION.

9.6.3.7/8/10.1/11 - AUDIBLE ALARM NOTIFICATION APPLIANCES SHALL BE OF SUCH CHARACTER AND SO DISTRIBUTED AS TO BE EFFECTIVELY HEARD ABOVE THE AVERAGE AMBIENT SOUND LEVEL THAT EXISTS UNDER NORMAL CONDITIONS OF OCCUPANCY. AUDIBLE ALARM NOTIFICATION APPLIANCES SHALL PRODUCE SIGNALS

THAT ARE DISTINCTIVE FROM AUDIBLE SIGNALS USED FOR OTHER PURPOSES IN A GIVEN BUILDING. AUDIBLE AND VISIBLE FIRE ALARM NOTIFICATION APPLIANCES SHALL BE USED ONLY FOR FIRE ALARM SYSTEM OR OTHER EMERGENCY PURPOSES. ALARM NOTIFICATION SIGNALS SHALL TAKE PRECEDENCE OVER ALL OTHER SIGNALS.

9.6.4.1/2 - EMERGENCY FORCES NOTIFICATION SHALL BE PROVIDED TO ALERT THE MUNICIPAL FIRE DEPARTMENT AND FIRE BRIGADES (IF PROVIDED) OF FIRE OR OTHER EMERGENCY. THE FIRE ALARM SYSTEM SHALL BE ARRANGED TO TRANSMIT THE ALARM AUTOMATICALLY VIA ANY OF THE FOLLOWING MEANS ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AND SHALL BE IN ACCORDANCE WITH NFPA 72, NATIONAL FIRE ALARM CODE:
(1) AUXILIARY ALARM SYSTEM
(2) CENTRAL STATION CONNECTION
(3) PROPRIETARY SYSTEM
(4) REMOTE STATION CONNECTION

9.6.5.1/2 - A FIRE ALARM AND CONTROL SYSTEM SHALL BE ARRANGED TO ACTUATE AUTOMATICALLY THE CONTROL FUNCTIONS NECESSARY TO MAKE THE PROTECTED PREMISES SAFER FOR BUILDING OCCUPANTS. THE FOLLOWING FUNCTIONS SHALL BE ACTUATED BY THE COMPLETE FIRE ALARM SYSTEM:
(1) RELEASE OF HOLD-OPEN DEVICES FOR DOORS OR OTHER OPENING PROTECTIVES.
(2) STAIRWELL OR ELEVATOR SHAFT PRESSURIZATION
(3) SMOKE MANAGEMENT OR SMOKE CONTROL SYSTEMS.
(4) EMERGENCY LIGHTING CONTROL.

9.6.6 - OPERATOR CONTROLS, ALARM INDICATORS, AND MANUAL COMMUNICATIONS CAPABILITY SHALL BE INSTALLED IN A CONTROL CENTER AT A CONVENIENT LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

9.6.7.2/3/4.2/4.3 - ALARM ANNUNCIATION AT THE CONTROL CENTER SHALL BE BY MEANS OF AUDIBLE AND VISIBLE INDICATORS. FOR THE PURPOSES OF ALARM ANNUNCIATION, EACH FLOOR OF THE BUILDING, OTHER THAN FLOORS OF EXISTING BUILDINGS, SHALL BE CONSIDERED AS NOT LESS THAN ONE ZONE. WHERE THE BUILDING IS PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13, THE AREA OF THE FIRE ALARM ZONE SHALL BE PERMITTED TO COINCIDE WITH THE ALLOWABLE AREA OF THE SPRINKLER SYSTEM. WHERE THE BUILDING IS PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13R, THE SPRINKLER SYSTEM SHALL BE PERMITTED TO BE ANNUNCIATED ON THE FIRE ALARM SYSTEM AS A SINGLE ZONE.

9.6.7.5/6 - A SYSTEM TROUBLE SIGNAL SHALL BE ANNUNCIATED AT THE CONTROL CENTER BY MEANS OF AUDIBLE AND VISIBLE INDICATORS. A SYSTEM SUPERVISORY SIGNAL SHALL BE ANNUNCIATED AT THE CONTROL CENTER BY MEANS OF AUDIBLE AND VISIBLE INDICATORS.

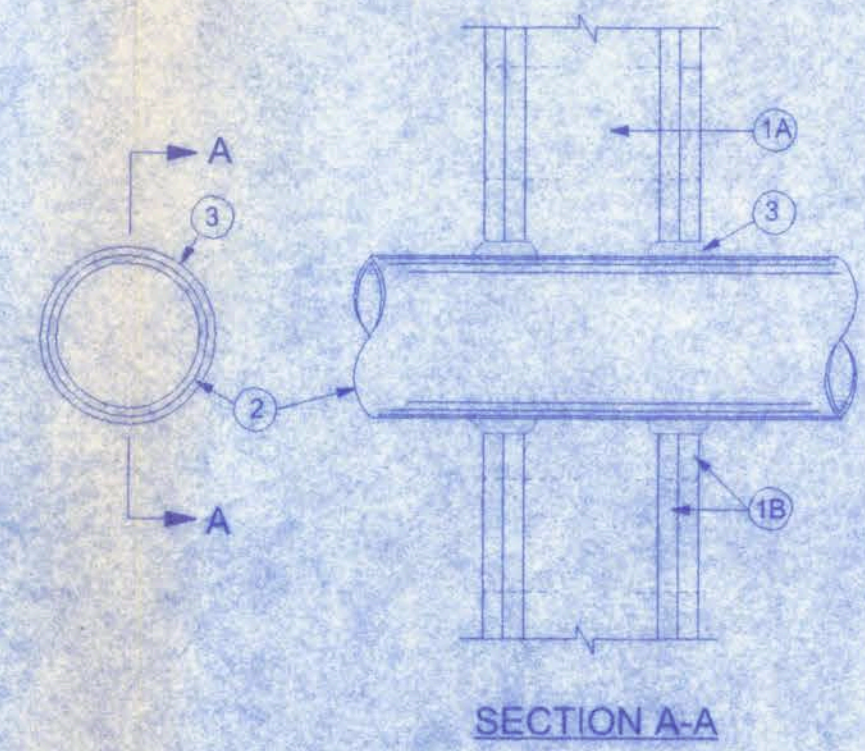
9.7.1.1 - EACH AUTOMATIC SPRINKLER SHALL BE IN ACCORDANCE WITH ONE OF THE FOLLOWING:
(1) NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS.
(2) NFPA 13R, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS IN RESIDENTIAL OCCUPANCIES UP TO AND INCLUDING FOUR STORIES IN HEIGHT.

9.7.2.1/2 - SUPERVISORY SIGNALS, SUPERVISORY ATTACHMENTS SHALL BE INSTALLED AND MONITORED FOR INTEGRITY IN ACCORDANCE WITH NFPA 72, NATIONAL FIRE ALARM CODE, AND A DISTINCTIVE SUPERVISORY SIGNAL SHALL BE PROVIDED TO INDICATE A CONDITION THAT WOULD IMPAIR THE SATISFACTORY OPERATION OF THE SPRINKLER SYSTEM. SYSTEM COMPONENTS AND PARAMETERS THAT SHALL BE MONITORED SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, CONTROL VALVES, WATER TANK LEVELS AND TEMPERATURES, TANK PRESSURE, AND AIR PRESSURE ON DRY-PIPE VALVES. SUPERVISORY SIGNALS SHALL SOUND AND SHALL BE DISPLAYED EITHER AT A LOCATION WITHIN THE PROTECTED BUILDING THAT IS CONSTANTLY ATTENDED BY PERSONNEL OR AT AN APPROVED, REMOTELY LOCATED RECEIVING FACILITY. WATERFLOW ALARMS SHALL BE TRANSMITTED TO AN APPROVED, PROPRIETARY ALARM-RECEIVING FACILITY, A REMOTE STATION, A CENTRAL STATION, OR THE FIRE DEPARTMENT.

9.7.5 - ALL AUTOMATIC SPRINKLER AND STANDPIPE SYSTEMS SHALL BE INSPECTED, TESTED, AND MAINTAINED IN ACCORDANCE WITH NFPA 25, STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS.

9.7.6.1 - WHERE A REQUIRED AUTOMATIC SPRINKLER SYSTEM IS OUT OF SERVICE FOR MORE THAN 4 HOURS IN A 24-HOUR PERIOD, THE AUTHORITY HAVING JURISDICTION SHALL BE NOTIFIED, AND THE BUILDING SHALL BE EVACUATED OR AN APPROVED FIRE WATCH SHALL BE PROVIDED FOR ALL PARTIES LEFT UNPROTECTED BY THE SHUTDOWN UNTIL THE SPRINKLER SYSTEM HAS BEEN RETURNED TO SERVICE.

PROPER DOCUMENTATION, RECORD KEEPING, AND SPECIAL TESTING AND INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SECTIONS 9.7.7, 9.7.8 AND 9.8.1-1.3 OF THE LIFE SAFETY CODE HANDBOOK, 2003 EDITION.



Max. Pipe or Conduit Diam. in.	F Rating Hr.	T Rating Hr.
1	1 or 2	0+, 1 or 2
1	3 or 4	3 or 4
4	1 or 2	0
6	3 or 4	0
12	1 or 2	0

FIRE PROTECTION PLAN
NO SCALE

System No. W-L-1001

Wall Assembly - The 1, 2, 3, or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in Section 709 FBC 2001 edition and shall include the following construction features:

A. Studs - wall framing may consist of either wood studs (max. 2 hr fire-rated assemblies) or steel channel studs. Wood studs to consist of min. 2x4 in. lumber and end plates and cross braces. Steel studs to be min. 3-5/8 in. wide by 1-3/8 in. deep channels spaced max. 24" o.c.

B. Gypsum Board - Nom. 1/2" or 5/8" thick, 4 ft. wide with square or tapered edges. The gypsum wall board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max. diameter of opening is 26 in.

2. Through Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min. of 0 in. (point contact) to max. 2 in. Pipes, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types of sizes and metallic pipes, conduits or tubing may be used:

A. Steel Pipe - Nom. 24 in. diam. (or smaller) Schedule 10 (or heavier) Steel Pipe.

B. Iron Pipe - Nom. 24 in. diam. (or smaller) service weight (or heavier) cast iron soil pipe, nom. 12 in. diam. (or smaller) or Class 50 (or heavier) ductile iron pipe.

C. Conduit - Nom. 6 in. diam. (or smaller) steel conduit or nom. 4 in. diam. (or smaller) steel electrical metallic tubing.

D. Copper Tubing - Nom. 6 in. diam. (or smaller) Type L (or heavier) copper pipe.

E. Copper Pipe - Nom. 6 in. diam. (or smaller) Regular (or heavier) copper pipe.

F. Through Penetration Product - Flexible Metal Piping the following types of steel flexible metal gas piping may be used:

1. Nom. 2 in. diam. (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC.

2. Nom. 1 in. diam. (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

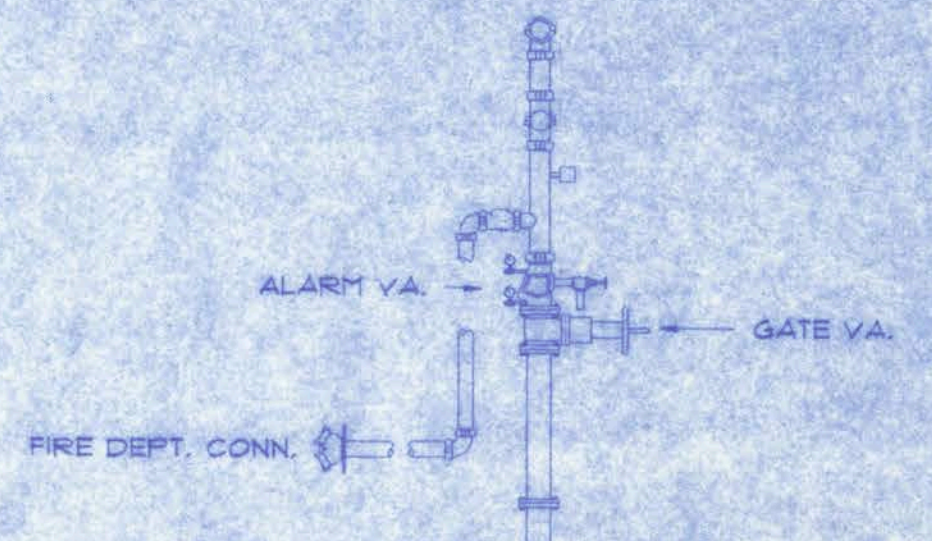
TITE FLEX CORP.

ABUNDY CO

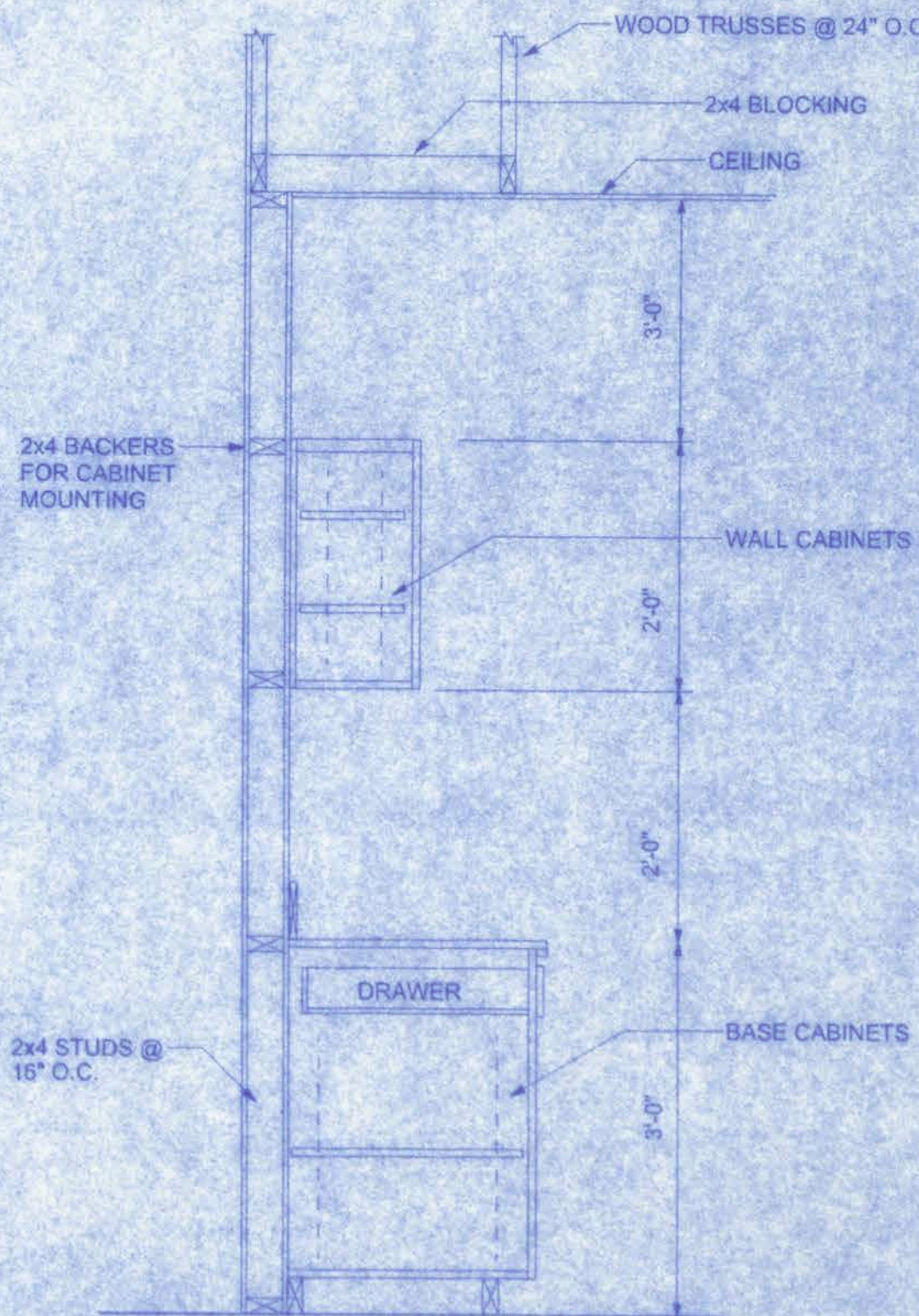
3. Nom. 1 in. diam. (or smaller) steel flexible metal gas piping. Plastic covering may or may not be removed on both sides of floor or wall assembly.

WARD MFG INC

3. Fill, Void or Cavity Material - Caulk or Sealant - Min 5/8, 1-1/4, 1-7/8 and 2-1/2 in. thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. diam bead of caulk applied to gypsum board/penetrant interface at point of contact location on both sides of wall. The hourly F rating of the firestop is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:



RISER DETAIL
NO SCALE



CABINET SECTION, TYP
SCALE: 3/4" = 1'-0"

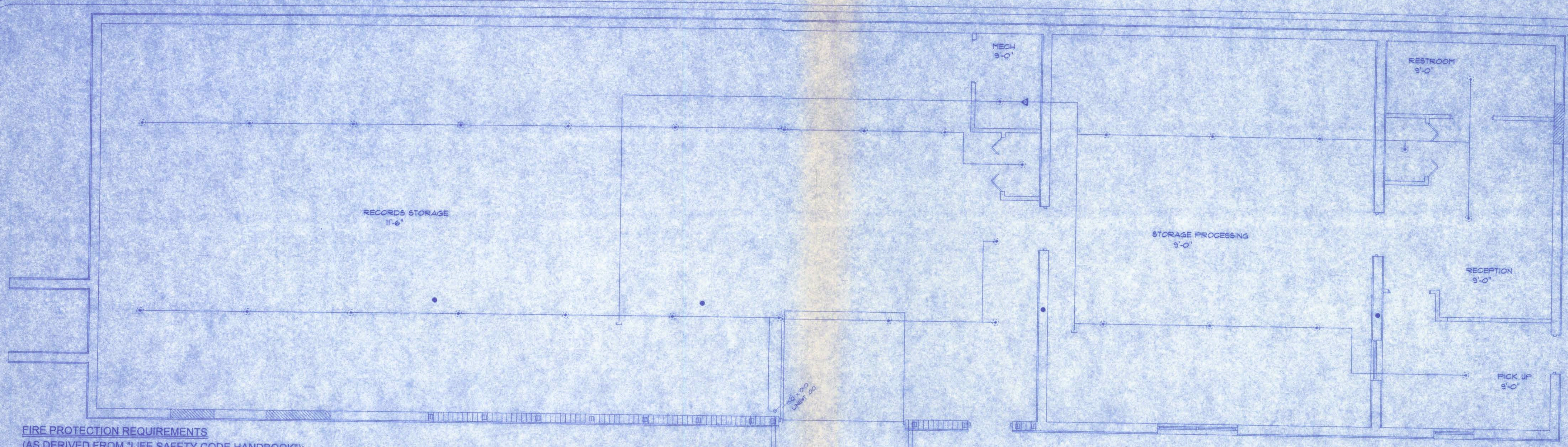
SHANDS STORAGE BUILDING

161 NW MADISON STREET
SUITE #102
LAKE CITY, FL 32055
(386) 758-4209
CERTIFICATE OF AUTHORIZATION # 00000201

Freeman
Design Group

DATE 11/29/06 DRAWN BY N.E.F.
REVISIONS
SHEET F-1
OF 1
PROJECT NO. 06.C032

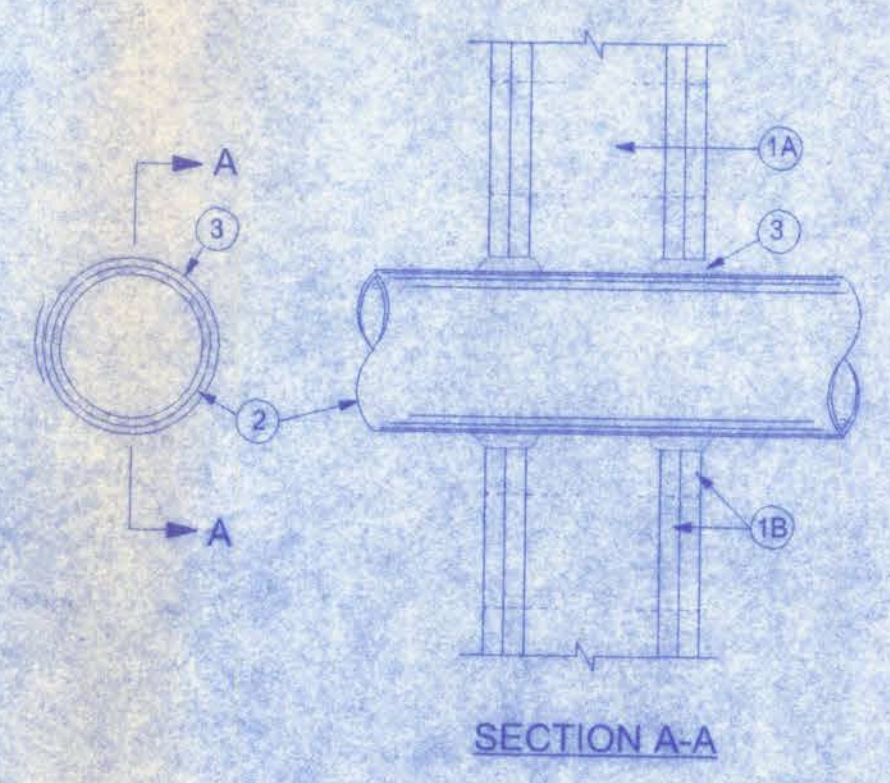
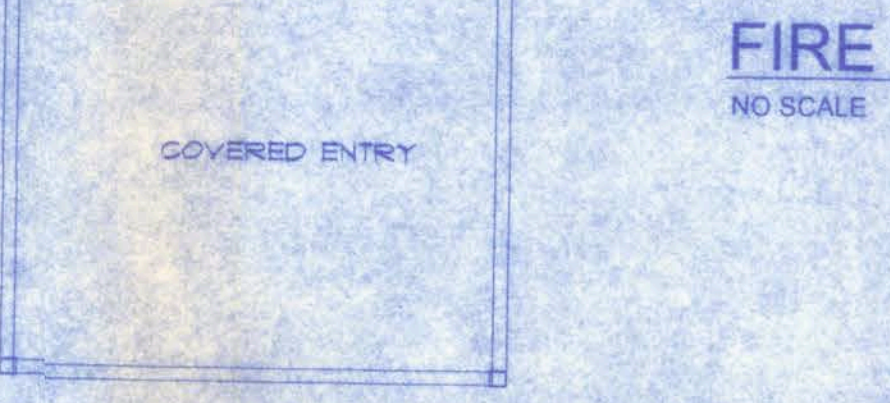
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FIRE PROTECTION REQUIREMENTS (AS DERIVED FROM "LIFE SAFETY CODE HANDBOOK")

- 9.6.1.3 - FIRE ALARM SYSTEM REQUIRED FOR LIFE SAFETY SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF NFPA 70, NEC, AND NFPA 72, NFAC (NATIONAL FIRE ALARM CODE).
- 9.6.1.8 - THE FIRE ALARM SYSTEM SHALL PROVIDE FUNCTIONS FOR INITIATION, NOTIFICATION, AND CONTROL, WHICH SHALL PERFORM AS FOLLOWS:
(1) - THE INITIATION FUNCTION PROVIDES THE INPUT SIGNAL TO THE SYSTEM.
(2) - THE NOTIFICATION FUNCTION IS THE MEANS BY WHICH THE SYSTEM ADVISES THAT HUMAN ACTION IS REQUIRED IN RESPONSE TO A PARTICULAR CONDITION.
(3) - THE CONTROL FUNCTION PROVIDES OUTPUTS TO CONTROL BUILDING EQUIPMENT TO ENHANCE PROTECTION OF LIFE.
- 9.6.2.1 - MANUAL FIRE ALARM BOXES SHALL BE APPROVED FOR THE PARTICULAR APPLICATION AND SHALL BE USED ONLY FOR FIRE-PROTECTIVE SIGNALING PURPOSES. COMBINATION FIRE ALARM AND GUARD'S TOUR STATIONS SHALL BE ACCEPTABLE.
- 9.6.2.3/4 - A MANUAL FIRE ALARM BOX SHALL BE PROVIDED IN THE NATURAL EXIT ACCESS PATH NEAR EACH REQUIRED EXIT FROM AN AREA. ADDITIONAL MANUAL FIRE ALARM BOXES SHALL BE LOCATED SO THAT NO HORIZONTAL DISTANCE ON THAT FLOOR EXCEEDING 60m (200 FT) SHALL NEED TO BE TRAVERSED TO REACH A MANUAL FIRE ALARM BOX.
- 9.6.2.5/6 - NOT LESS THAN ONE FIRE ALARM BOX SHALL BE PROVIDED TO INITIATE A FIRE ALARM SIGNAL. THE MANUAL FIRE ALARM BOX SHALL BE LOCATED WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION. EACH MANUAL FIRE ALARM BOX ON A SYSTEM SHALL BE ACCESSIBLE, UNOBSTRUCTED, AND VISIBLE.
- 9.6.2.7 - WHERE A SPRINKLER SYSTEM PROVIDES AUTOMATIC DETECTION AND ALARM SYSTEM INITIATION, IT SHALL BE PROVIDED WITH AN APPROVED ALARM INITIATION DEVICE THAT OPERATES WHEN THE FLOW OF WATER IS EQUAL TO OR GREATER THAN THAT FROM A SINGLE AUTOMATIC SPRINKLER.
- 9.6.2.8 - AUTOMATIC DETECTION OF SMOKE IN ACCORDANCE WITH NFPA 72, NATIONAL FIRE ALARM CODE, SHALL BE PROVIDED IN ALL OCCUPIABLE AREAS, COMMON AREAS, AND WORK SPACES IN ENVIRONMENTS THAT ARE SUITABLE FOR PROPER SMOKE DETECTOR OPERATION.
- 9.6.2.10.2 - SMOKE ALARMS SHALL RECEIVE THEIR OPERATING POWER FROM THE BUILDING ELECTRICAL SYSTEM.
- 9.6.2.10.4 - SMOKE ALARMS LOCATED WITHIN A DWELLING UNIT SHALL SOUND ONLY WITHIN AN INDIVIDUAL DWELLING UNIT, SUITE OF ROOMS, OR SIMILAR AREA AND SHALL NOT ACTUATE THE BUILDING FIRE ALARM SYSTEM, UNLESS OTHERWISE PERMITTED BY THE AUTHORITY HAVING JURISDICTION. REMOTE ANNUNCIATION SHALL BE PERMITTED.
- 9.6.3.1 - OCCUPANT NOTIFICATION SHALL BE PROVIDED TO ALERT OCCUPANTS OF A FIRE OR OTHER EMERGENCY.
- 9.6.3.3 - A PRESIGNAL SYSTEM SHALL BE PERMITTED WHERE THE INITIAL FIRE ALARM SIGNAL IS AUTOMATICALLY TRANSMITTED WITHOUT DELAY TO A MUNICIPAL FIRE DEPARTMENT, TO A FIRE BRIGADE (IF PROVIDED), AND TO AN ON-SITE STAFF PERSON TRAINED TO RESPOND TO A FIRE EMERGENCY.
- 9.6.3.5 - NOTIFICATION SIGNALS FOR OCCUPANTS TO EVACUATE SHALL BE AUDIBLE AND VISIBLE SIGNALS IN ACCORDANCE WITH NFPA 72, NATIONAL FIRE ALARM CODE, AND ICC/ANSI A117.1, AMERICAN NATIONAL STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, OR OTHER MEANS OF NOTIFICATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION SHALL BE PROVIDED.
- 9.6.3.6 - WHERE OCCUPANTS ARE INCAPABLE OF EVACUATING THEMSELVES BECAUSE OF ARE, PHYSICAL OR MENTAL DISABILITIES, OR PHYSICAL RESTRAINT, THE PRIVATE OPERATING MODE AS DESCRIBED IN NFPA 72, NATIONAL FIRE ALARM CODE, SHALL BE PERMITTED TO BE USED. ONLY THE ATTENDANTS AND OTHER PERSONNEL REQUIRED TO EVACUATE OCCUPANTS FROM A ZONE, AREA, FLOOR, OR BUILDING SHALL BE REQUIRED TO BE NOTIFIED. THE NOTIFICATION SHALL INCLUDE MEANS TO READILY IDENTIFY THE ZONE, AREA, FLOOR, OR BUILDING IN NEED OF EVACUATION.
- 9.6.3.7/8/10.1/11 - AUDIBLE ALARM NOTIFICATION APPLIANCES SHALL BE OF SUCH CHARACTER AND SO DISTRIBUTED AS TO BE EFFECTIVELY HEARD ABOVE THE AVERAGE AMBIENT SOUND LEVEL THAT EXISTS UNDER NORMAL CONDITIONS OF OCCUPANCY. AUDIBLE ALARM NOTIFICATION APPLIANCES SHALL PRODUCE SIGNALS

- THAT ARE DISTINCTIVE FROM AUDIBLE SIGNALS USED FOR OTHER PURPOSES IN A GIVEN BUILDING. AUDIBLE AND VISIBLE FIRE ALARM NOTIFICATION APPLIANCES SHALL BE USED ONLY FOR FIRE ALARM SYSTEM OR OTHER EMERGENCY PURPOSES. ALARM NOTIFICATION SIGNALS SHALL TAKE PRECEDENCE OVER ALL OTHER SIGNALS.
- 9.6.4.1/2 - EMERGENCY FORCES NOTIFICATION SHALL BE PROVIDED TO ALERT THE MUNICIPAL FIRE DEPARTMENT AND FIRE BRIGADE (IF PROVIDED) OF FIRE OR OTHER EMERGENCY. THE FIRE ALARM SYSTEM SHALL BE ARRANGED TO TRANSMIT THE ALARM AUTOMATICALLY VIA ANY OF THE FOLLOWING MEANS ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AND SHALL BE IN ACCORDANCE WITH NFPA 72, NATIONAL FIRE ALARM CODE:
(1) AUXILIARY ALARM SYSTEM
(2) CENTRAL STATION CONNECTION
(3) PROPRIETARY SYSTEM
(4) REMOTE STATION CONNECTION
- 9.6.5.1/2 - A FIRE ALARM AND CONTROL SYSTEM SHALL BE ARRANGED TO ACTUATE AUTOMATICALLY THE CONTROL FUNCTIONS NECESSARY TO MAKE THE PROTECTED PREMISES SAFER FOR BUILDING OCCUPANTS. THE FOLLOWING FUNCTIONS SHALL BE ACTUATED BY THE COMPLETE FIRE ALARM SYSTEM:
(1) RELEASE OF HOLD-OPEN DEVICES FOR DOORS OR OTHER OPENING PROTECTIVES.
(2) STAIRWELL OR ELEVATOR SHAFT PRESSURIZATION
(3) SMOKE MANAGEMENT OR SMOKE CONTROL SYSTEMS.
(4) EMERGENCY LIGHTING CONTROL.
- 9.6.5 - OPERATOR CONTROLS, ALARM INDICATORS, AND MANUAL COMMUNICATIONS CAPABILITY SHALL BE INSTALLED IN A CONTROL CENTER AT A CONVENIENT LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
- 9.6.7.2/3/4.2/4.3 - ALARM ANNUNCIATION AT THE CONTROL CENTER SHALL BE BY MEANS OF AUDIBLE AND VISIBLE INDICATORS. FOR THE PURPOSES OF ALARM ANNUNCIATION, EACH FLOOR OF THE BUILDING, OTHER THAN FLOORS OF EXISTING BUILDINGS, SHALL BE CONSIDERED AS NOT LESS THAN ONE ZONE. WHERE THE BUILDING IS PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13, THE AREA OF THE FIRE ALARM ZONE SHALL BE PERMITTED TO COINCIDE WITH THE ALLOWABLE AREA OF THE SPRINKLER SYSTEM, WHERE THE BUILDING IS PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13R, THE SPRINKLER SYSTEM SHALL BE PERMITTED TO BE ANNUNCIATED ON THE FIRE ALARM SYSTEM AS A SINGLE ZONE.
- 9.6.7.5/6 - A SYSTEM TROUBLE SIGNAL SHALL BE ANNUNCIATED AT THE CONTROL CENTER BY MEANS OF AUDIBLE AND VISIBLE INDICATORS. A SYSTEM SUPERVISORY SIGNAL SHALL BE ANNUNCIATED AT THE CONTROL CENTER BY MEANS OF AUDIBLE AND VISIBLE INDICATORS.
- 9.7.1.1 - EACH AUTOMATIC SPRINKLER SHALL BE IN ACCORDANCE WITH ONE OF THE FOLLOWING:
(1) NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS.
(2) NFPA 13R, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS IN RESIDENTIAL OCCUPANCIES UP TO AND INCLUDING FOUR STORIES IN HEIGHT.
- 9.7.2.1/2 - SUPERVISORY SIGNALS: SUPERVISORY ATTACHMENTS SHALL BE INSTALLED AND MONITORED FOR INTEGRITY IN ACCORDANCE WITH NFPA 72, NATIONAL FIRE ALARM CODE AND A DISTINCTIVE SUPERVISORY SIGNAL SHALL BE PROVIDED TO INDICATE A CONDITION THAT WOULD IMPAIR THE SATISFACTORY OPERATION OF THE SPRINKLER SYSTEM. SYSTEM COMPONENTS AND PARAMETERS THAT SHALL BE MONITORED SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, CONTROL VALVES, WATER TANK LEVELS AND TEMPERATURES, TANK PRESSURE, AND AIR PRESSURE ON DRY-PIPE VALVES. SUPERVISORY SIGNALS SHALL SOUND AND SHALL BE DISPLAYED EITHER AT A LOCATION WITHIN THE PROTECTED BUILDING THAT IS CONSTANTLY ATTENDED BY QUALIFIED PERSONNEL OR AT AN APPROVED, REMOTELY LOCATED RECEIVING FACILITY. WATERFLOW ALARMS SHALL BE TRANSMITTED TO AN APPROVED, PROPRIETARY ALARM-RECEIVING FACILITY, A REMOTE STATION, A CENTRAL STATION, OR THE FIRE DEPARTMENT.
- 9.7.5 - ALL AUTOMATIC SPRINKLER AND STANDPIPE SYSTEMS SHALL BE INSPECTED, TESTED, AND MAINTAINED IN ACCORDANCE WITH NFPA 25, STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS.
- 9.7.6.1 - WHERE A REQUIRED AUTOMATIC SPRINKLER SYSTEM IS OUT OF SERVICE FOR MORE THAN 4 HOURS IN A 24-HOUR PERIOD, THE AUTHORITY HAVING JURISDICTION SHALL BE NOTIFIED, AND THE BUILDING SHALL BE EVACUATED OR AN APPROVED FIRE WATCH SHALL BE PROVIDED FOR ALL PARTIES LEFT UNPROTECTED BY THE SHUTDOWN UNTIL THE SPRINKLER SYSTEM HAS BEEN RETURNED TO SERVICE.
- PROPER DOCUMENTATION, RECORD KEEPING, AND SPECIAL TESTING AND INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SECTIONS 9.7.7, 9.7.8 AND 9.8.1-3 OF THE LIFE SAFETY CODE HANDBOOK, 2003 EDITION.



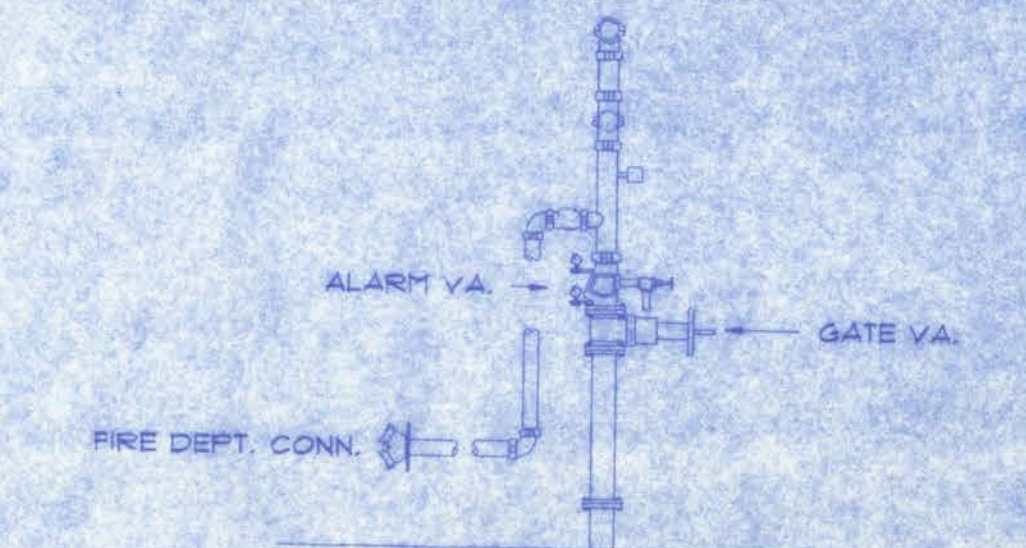
Max. Pipe or Conduit Diam. in.	F Rating Hr.	T Rating Hr.
1	1 or 2	0+, 1 or 2
1	3 or 4	3 or 4
4	1 or 2	0
6	3 or 4	0
12	1 or 2	0

FIRE PROTECTION PLAN NO SCALE

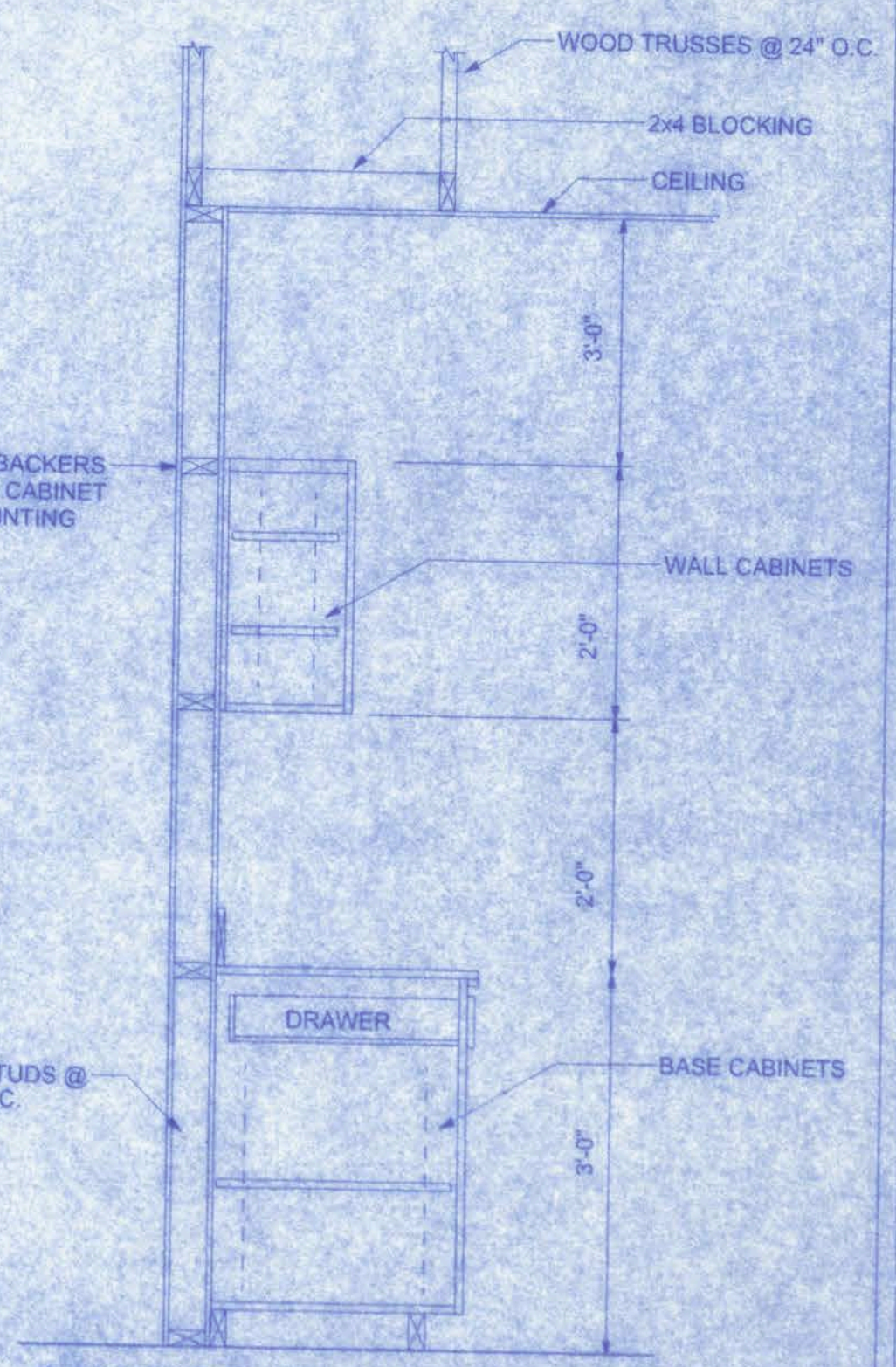
System No. W-L-1001

Wall Assembly - The 1, 2, 3, or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in Section 709 FBC 2001 edition and shall include the following construction features:

- A. Studs - wall framing may consist of either wood studs (max. 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of nom. 2x4 in. lumber and end plates and cross braces. Steel studs to be min. 3-5/8 in. wide by 1-3/8 in. deep channels spaced max. 24" o.c.
- B. Gypsum Board - Nom. 1/2" or 5/8" thick, 4 ft. wide with square or tapered edges. The gypsum wall board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max. diameter of opening is 26 in.
2. Through Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min. of 0 in. (point contact) to max. 2 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types of sizes and metallic pipes, conduits or tubing may be used:
- A. Steel Pipe - Nom. 24 in. diam. (or smaller) Schedule 10 (or heavier) Steel Pipe.
- B. Iron Pipe - Nom. 24 in. diam. (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. diam. (or smaller) or Class 50 (or heavier) ductile iron pipe.
- C. Conduit - Nom. 6 in. diam. (or smaller) steel conduit or nom. 4 in. diam. (or smaller) steel electrical metallic tubing.
- D. Copper Tubing - Nom. 6 in diam (or smaller) Type L (or heavier) copper pipe.
- E. Copper Pipe - Nom. 6 in. diam (or smaller) Regular (or heavier) copper pipe.
- F. Through Penetrant Product - Flexible Metal Piping the following types of steel flexible metal gas piping may be used:
1. Nom 2 in. diam. (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
OMEGA FLEX INC.
2. Nom. 1 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
TITE FLEX CORP.
A BUNDY GO
3. Nom. 1 in. diam (or smaller) steel flexible metal gas piping. Plastic covering may or may not be removed on both sides of floor or wall assembly.
WARD MFG INC.
3. Fill, Void or Cavity Material - Caulk or Sealant - Min 5/8 1-1/4, 1-7/8 and 2-1/2 in. thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. diam bead of caulk applied to gypsum board/penetrant interface at point of contact location on both sides of wall. The hourly F rating of the firestop is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:



RISER DETAIL NO SCALE



CABINET SECTION, TYP SCALE: 3/4" = 1'-0"