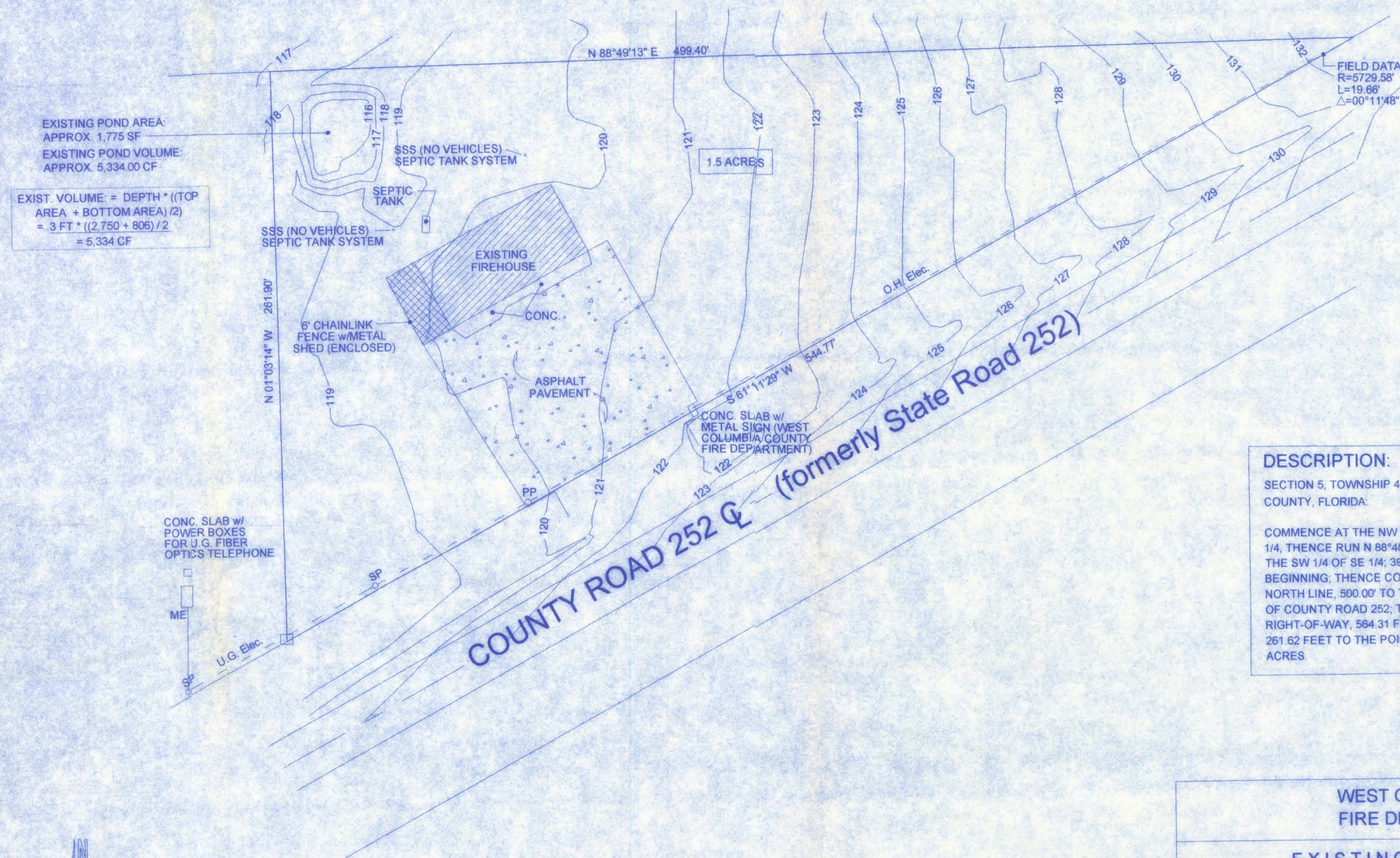


FILE COPY



#### DESCRIPTION:

SECTION 5, TOWNSHIP 4, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA:

COMMENCE AT THE NW CORNER OF THE SW 1/4 OF THE SE 1/4, THENCE RUN N 88°48'41" E, ALONG THE NORTH LINE OF THE SW 1/4 OF SE 1/4, 393.46 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE N 88°48'41" E, ALONG SAID NORTH LINE, 500.00' TO THE NORTHERLY RIGHT-OF-WAY LINE OF COUNTY ROAD 252; THENCE S 61°11'29" W, ALONG SAID RIGHT-OF-WAY, 564.31 FEET; THENCE NORTH 1°11'19" W, 261.62 FEET TO THE POINT OF BEGINNING, CONTAINING 1.5 ACRES.

#### WEST COLUMBIA FIRE DEPARTMENT

#### EXISTING SITE DATA

|                                 |                          |           |            |
|---------------------------------|--------------------------|-----------|------------|
| PROJECT:                        | WEST COLUMBIA FIRE DEPT. |           |            |
| LEGAL DESCRIPTION:              | REFER TO ATTACHED SURVEY |           |            |
| ZONING:                         | A-1                      |           |            |
| AREA COMPUTATIONS:              | SQUARE FEET              | ACRES     | % OF TOTAL |
| GROSS SITE AREA:                | 65,443,954 SF            | 1.502 Ac. | -          |
| GROSS DEVELOPMENT AREA:         | 65,443,954 SF            | 1.502 Ac. | 100.00 %   |
| GDA / GSA:                      | -                        | -         | 100.00 %   |
| EXISTING IMPERVIOUS:            | 10,847,330 SF            | 0.249 Ac. | 16.578 %   |
| TOTAL EXISTING IMPERVIOUS AREA: | 10,847,330 SF            | 0.249 Ac. | 16.578 %   |
| GRASSY AREA:                    | 54,596,624 SF            | 1.253 Ac. | 83.422 %   |
| TOTAL PERVIOUS AREA:            | 54,596,624 SF            | 1.253 Ac. | 83.422 %   |

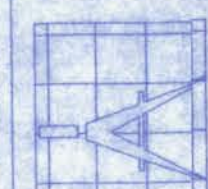
#### EXISTING SITE PLAN

SCALE: 1" = 30'

#### WEST COLUMBIA VOLUNTEER FIRE DEPARTMENT STATION #43

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

CERTIFICATE OF AUTHORIZATION # 00008701



Freeman  
Design Group

DATE  
7/12/07  
DRAWN BY  
J.T.D.  
APPROVED  
W.H.F.

#### REVISIONS

SHEET SP- 1  
OF 3

PROJECT NO.  
06.C040

FILE COPY

NOTE:  
EXISTING POND AREA ON SITE  
WILL EXCAVATED TO  
ACCOMMODATE WATER QUALITY  
FOR THE FIRST 2" OF RUNOFF  
FROM NEW IMPERVIOUS AREA.

BUTLER FAMILY LTD  
PARTNERSHIP  
ID#: 05-4S-16-02774-000

WESTRIDGE, INC.  
ID#: 05-4S-16-02777-000

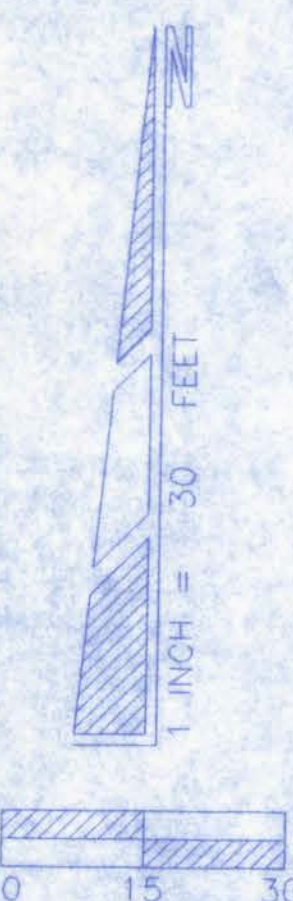
COLUMBIA COUNTY  
(FIRE DEPARTMENT)  
ID#: 05-4S-16-02776-001

FIELD DATA  
R=5729.58'  
L=19.66'  
Δ=00°11'48"

CONC. SLAB w/  
POWER BOXES  
FOR U.G. FIBER  
OPTICS TELEPHONE

CONC. SLAB w/  
METAL SIGN (WEST  
COLUMBIA COUNTY  
FIRE DEPARTMENT)

COUNTY ROAD 252 (formerly State Road 252)



## SITE PLAN

SCALE: 1" = 30'

### NOTE:

TOTAL NEW IMPERVIOUS AREA = 4,305.17 SF  
NEW TREATMENT VOLUME CALC.: (4,305.17 SF) X (2"/12) = 717.53 CF REQ.  
EXISTING POND STORAGE: 5,334 CF  
[EXISTING POND TO BE EXCAVATED TO ACCOMMODATE NEW VOLUME...]  
NEW POND AREA REQUIRED: (EXISTING) 5,334 + (NEW) 718 = 6,052 CF  
VOLUME CALC.: = DEPTH \* ((TOP AREA + BOTTOM AREA) / 2)  
= 3 FT \* ((3,080 + 992) / 2) = 6,108 CF

### DESCRIPTION:

SECTION 5, TOWNSHIP 4, RANGE 16 EAST, COLUMBIA  
COUNTY, FLORIDA:

COMMENCE AT THE NW CORNER OF THE SW 1/4 OF THE SE  
1/4, THENCE RUN N 88°48'41" E, ALONG THE NORTH LINE OF  
THE SW 1/4 OF SE 1/4, 393.46 FEET TO THE POINT OF  
BEGINNING; THENCE CONTINUE N 88°48'41" E, ALONG SAID  
NORTH LINE, 500.00' TO THE NORTHERLY RIGHT-OF-WAY LINE  
OF COUNTY ROAD 252; THENCE S 61°11'29" W, ALONG SAID  
RIGHT-OF-WAY, 564.31 FEET; THENCE NORTH 1°11'19" W,  
261.62 FEET TO THE POINT OF BEGINNING, CONTAINING 1.5  
ACRES.

## GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE TO INSURE THAT ALL NEW WORK WILL FIT IN THE MANNER INTENDED ON THE PLANS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SUCH DIFFERENCES IMMEDIATELY AND PRIOR TO PROCEEDING WITH THE WORK.
2. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE IN A SECURE MANNER. ALL OPEN TRENCHES AND EXCAVATED AREAS SHALL BE PROTECTED FROM ACCESS BY THE GENERAL PUBLIC.
3. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE ENGINEER.
4. ALL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO CONSTRUCTION.
5. ALL DISTURBED AREAS NOT SODDED SHALL BE SEEDED WITH A MIXTURE OF LONG TERM VEGETATION AND QUICK GROWING SHORT TERM VEGETATION FOR THE FOLLOWING CONDITIONS. FOR THE MONTHS FROM SEPTEMBER THROUGH MARCH, THE MIX SHALL CONSIST OF 70 POUNDS PER ACRE OF LONG TERM SEED AND 20 POUNDS PER ACRE OF WINTER RYE. FOR THE MONTHS OF APRIL THROUGH AUGUST, THE MIX SHALL CONSIST OF 70 POUNDS PER ACRE OF LONG TERM SEED AND 20 POUNDS PER ACRE OF MILLET.
6. A PAD OF RUBBLE RIP RAP SHALL BE PLACED AT THE BOTTOM OF ALL COLLECTION FLUMES, OUTFALL DITCHES AND COLLECTION PIPE OUTLETS.
7. EXISTING DRAINAGE STRUCTURES WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED.
8. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION.
9. ALL UTILITY CONSTRUCTION SHALL MEET COLUMBIA COUNTY WATER AND WASTEWATER UTILITY STANDARDS.
10. THE CONTRACTOR SHALL WASTE ALL EXCESS EARTH ON SITE AS DIRECTED BY THE ENGINEER.
11. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH COLUMBIA COUNTY LAND DEVELOPMENT REGULATIONS.
12. THE DRIVEWAY CONNECTION IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD FOR SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION) AND THE ROADWAY AND TRAFFIC DESIGN STANDARDS (CURRENT EDITION).
13. THE TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION) AND THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS (CURRENT EDITION). ACCORDING TO STATE INDEXES 17302 AND 17346. ALL PAVEMENT MARKING SHALL BE THERMOPLASTIC LEAD FREE PAINT.
14. MAINTENANCE OF TRAFFIC SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS 600 AND 602.
15. THE CONTRACTOR SHALL OBTAIN THREE DENSITY TESTS ACCORDING TO THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION). LIMEROCK SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. A COPY OF THE TESTS SHALL BE SUBMITTED TO CITY OF LAKE CITY BEFORE STARTING ANY PAVING OPERATIONS.
16. THE CONTRACTOR SHALL ADHERE TO THE EROSION CONTROL PLAN, SHEET , BEFORE COMMENCING ANY EARTHWORK ON THE SITE.

## WEST COLUMBIA VOLUNTEER FIRE DEPARTMENT STATION #43

### PROPOSED SITE DATA

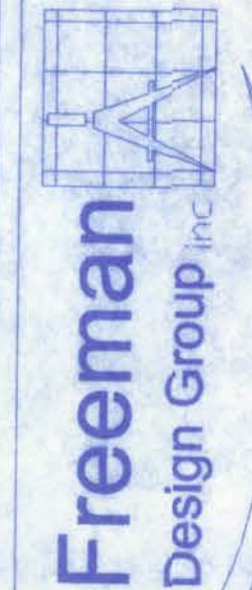
|                                 |                          |           |            |
|---------------------------------|--------------------------|-----------|------------|
| PROJECT:                        | WEST COLUMBIA FIRE DEPT. |           |            |
| LEGAL DESCRIPTION:              | REFER TO ATTACHED SURVEY |           |            |
| ZONING:                         | A-1                      |           |            |
| AREA COMPUTATIONS:              | SQUARE FEET              | ACRES     | % OF TOTAL |
| GROSS SITE AREA:                | 65,443.954 SF            | 1.502 Ac. | -          |
| GROSS DEVELOPMENT AREA:         | 65,443.954 SF            | 1.502 Ac. | 100.00 %   |
| GDA / GSA:                      | -                        | -         | 100.00 %   |
| EXISTING IMPERVIOUS:            | 10,847.330 SF            | 0.249 Ac. | 16.578 %   |
| TOTAL EXISTING IMPERVIOUS AREA: | 10,847.330 SF            | 0.249 Ac. | 16.578 %   |
| NEW IMPERVIOUS:                 | -                        | -         | -          |
| NEW BLDG:                       | 1,600.00 SF              | 0.037 Ac. | 2.463 %    |
| NEW CONC. AREAS:                | 2,705.17 SF              | 0.062 Ac. | 4.128 %    |
| TOTAL NEW IMPERVIOUS AREA:      | 4,305.17 SF              | 0.099 Ac. | 6.591 %    |
| TOTAL IMPERVIOUS AREA:          | 15,152.500 SF            | 0.348 Ac. | 23.169 %   |
| NEW IMPERVIOUS:                 | -                        | -         | -          |
| RETENTION AREA:                 | 3,080.000 SF             | 0.071 Ac. | 4.671 %    |
| GRASSY AREA:                    | 47,211.954 SF            | 1.084 Ac. | 72.160 %   |
| TOTAL PERVIOUS AREA:            | 50,291.954 SF            | 1.154 Ac. | 76.831 %   |

PARKING REQUIRED:  
NO PARKING REQUIRED

WEST COLUMBIA VOLUNTEER  
FIRE DEPARTMENT STATION #43

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

CERTIFICATE OF AUTHORIZATION # 00008701



DRAWN BY  
J.T.D.

DATE  
7/12/07

APPROVED  
W.H.F.

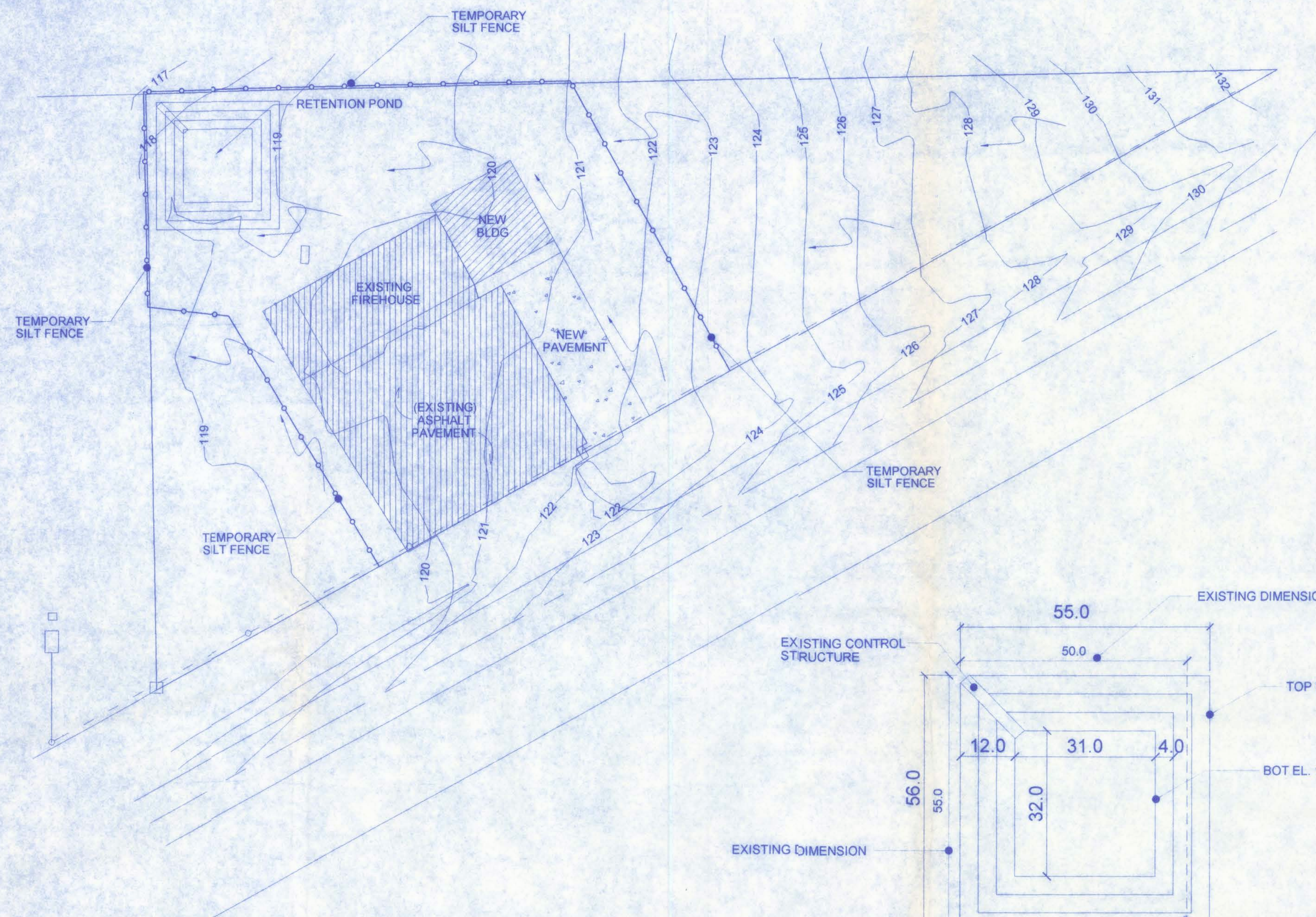
REVISIONS

SHEET SP - 2

OF 3

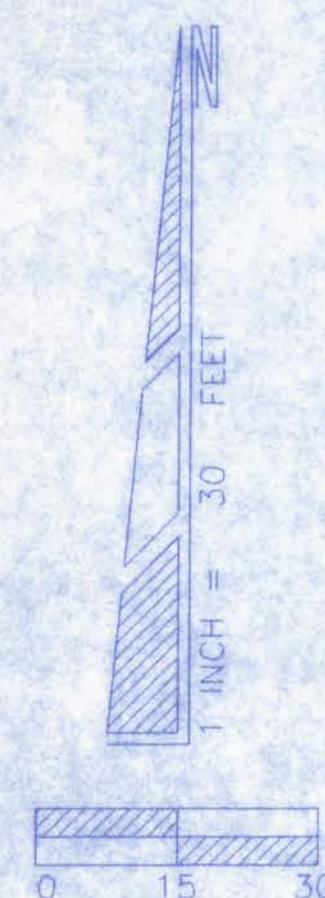
PROJECT NO.

06.0040



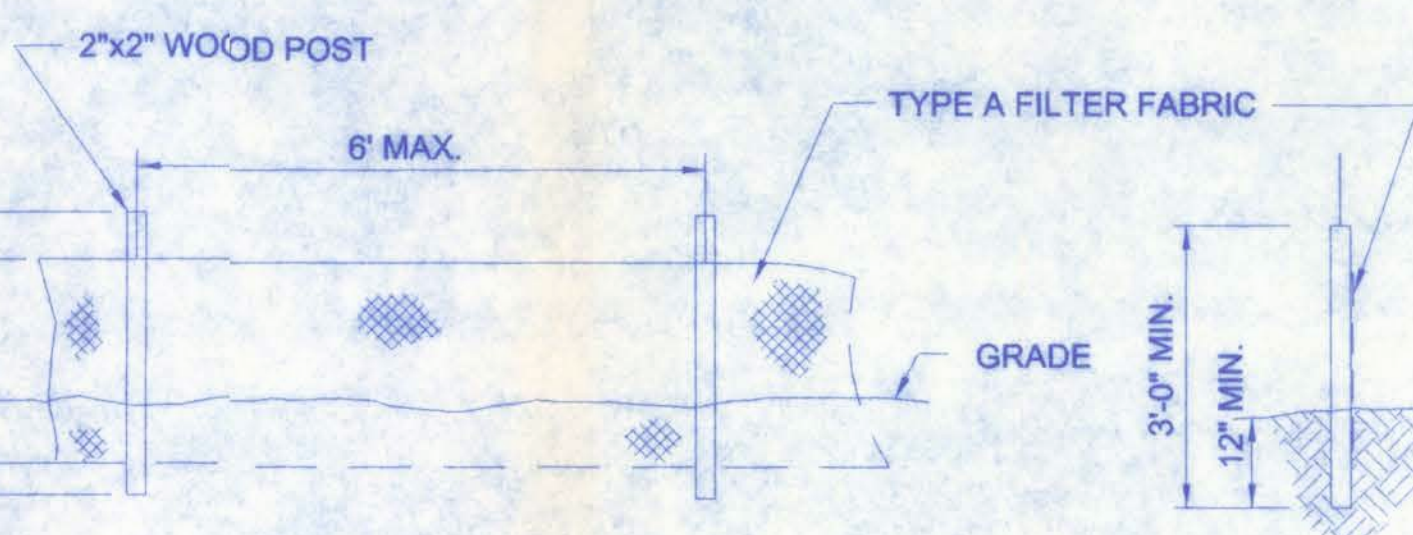
# GRADING/EROSION & SEDIMENT CONTROL PLAN

SCALE: 1" = 30'

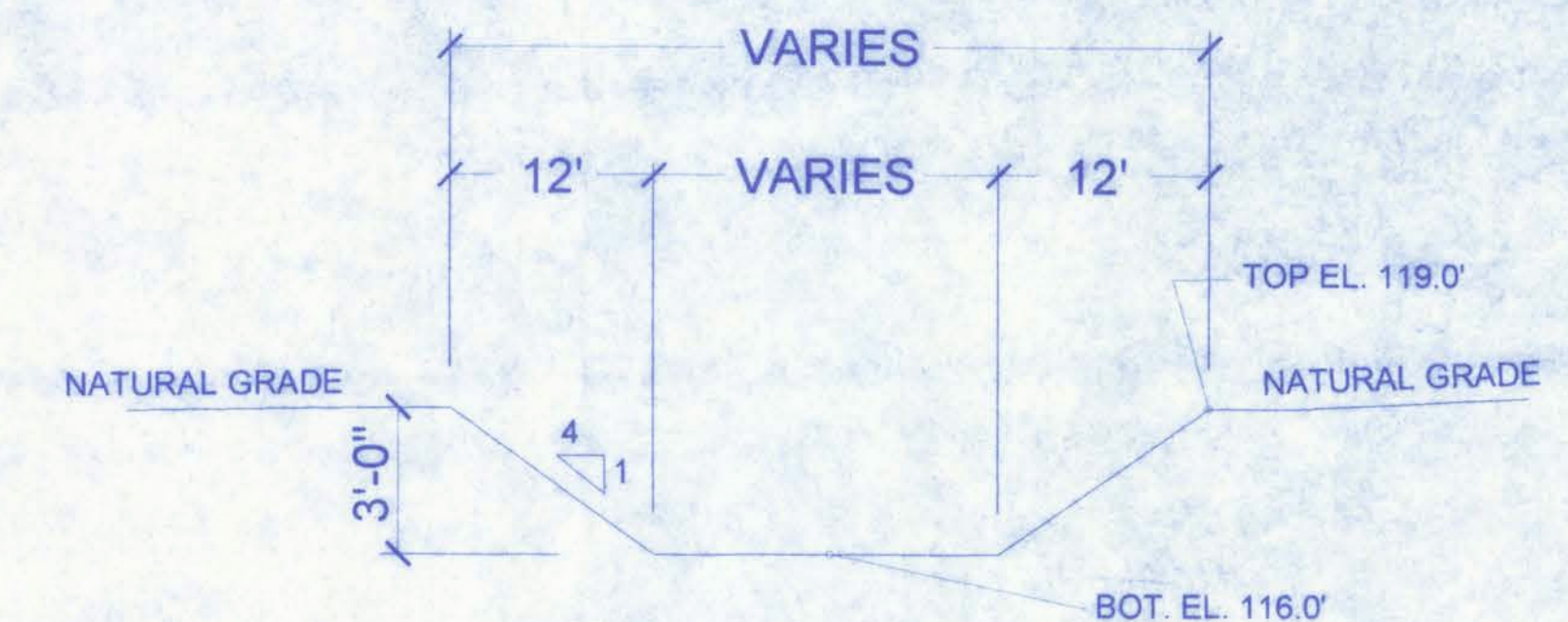


## POND DETAIL NTS

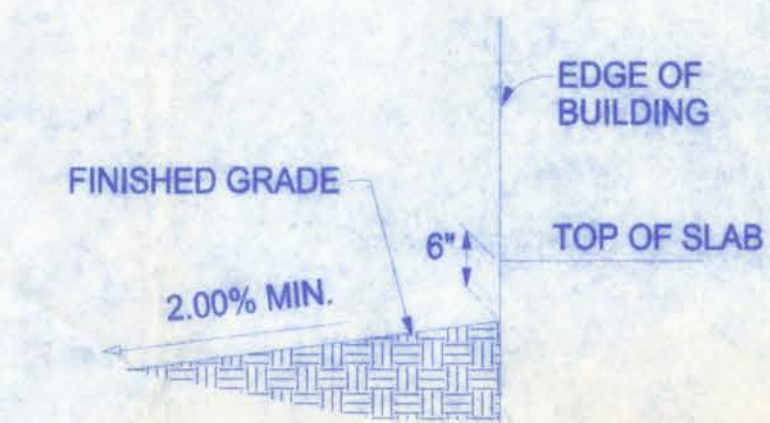
TOP EL. 119.0'  
BOT. EL. 116.0'  
3,080.00 SF  
4:1 SIDE SLOPES



## TEMPORARY SILT FENCE DETAIL NTS



## POND SECTION, TYP. NTS



## FINISHED GRADE SECTION @ EDGE OF BUILDING

## OPERATION AND MAINTENANCE PLAN

1. HAY BALES AND TEMPORARY GRASS SEED SHALL BE PLACED AS NEEDED TO PREVENT EROSION. AREAS THAT EXPERIENCE EROSION SHALL BE RESHAPED AND REGRASSED.
2. THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE DESIGNED AND IMPLEMENTED IN ACCORDANCE WITH THE FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL.
3. IF THE DESIGNED EROSION AND SEDIMENT CONTROL PLAN IS DEEMED INEFFECTIVE, THE CONTRACTOR SHALL IMPLEMENT HIS OWN BASED ON THE FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL.

## NOTE:

THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE EROSION & SEDIMENT CONTROL PLAN UNTIL AS-BUILTS ARE SUBMITTED.

## EROSION & SEDIMENT CONTROL NOTES:

1. TEMPORARY GRASSING SHALL BE USED ON ALL AREAS OF DISTURBED SOIL WITH SLOPES FLATTER THAN 3:1.
2. ALL DISTURBED AREAS WITHIN THE LIMITS OF CONSTRUCTION WITH A PROPOSED SLOPE OR FINISHED GRADE SLOPE OF 4:1 OR STEEPER SHALL BE COMPLETELY COVERED WITH CERTIFIED COASTAL BERMUDA GRASS OR AN APPROVED ALTERNATIVE GRASS SOD. THIS PROVISION SHALL BE MET A MINIMUM OF 24 HOURS IN ADVANCE OF ANY PLANNED PAVING OR CONCRETE POUR THAT IS APPROVED UNDER THE FDOT ACCESS OR DRAINAGE PERMIT.
3. PROVIDE SILT FENCE BARRIERS OR STRAW BALES AT ALL LOCATIONS WHERE SHEETFLOW RUNOFF LEAVES THE SITE.
4. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE E & SC PLAN UNTIL AS-BUILTS ARE SUBMITTED.

WEST COLUMBIA VOLUNTEER  
FIRE DEPARTMENT STATION #43

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

CERTIFICATE OF AUTHORIZATION # 00006701



DATE  
7/12/07  
DRAWN BY  
J.T.D.  
APPROVED  
W.H.F.

REVISIONS

SHEET SP - 3

OF 3

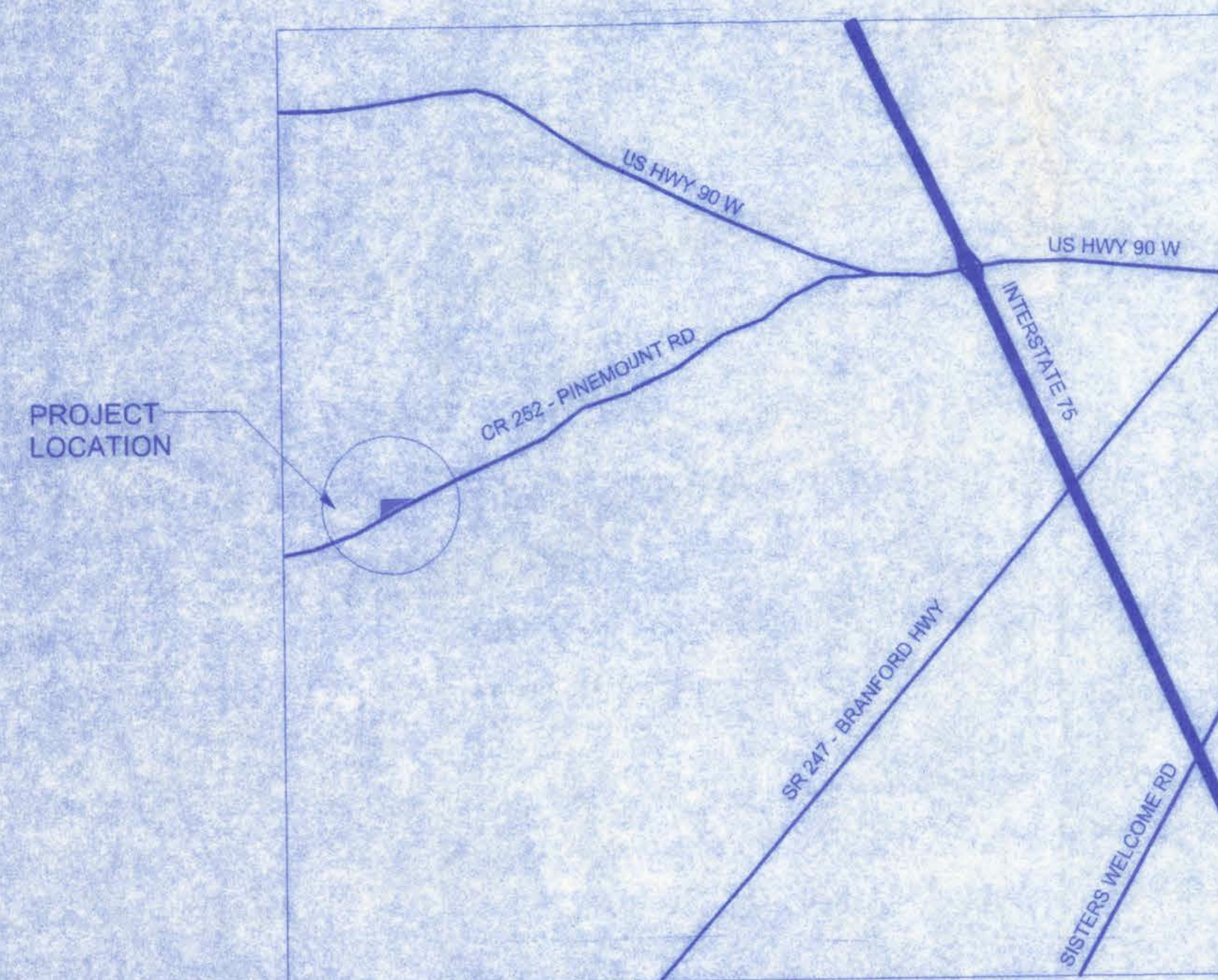
PROJECT NO.  
06.C040

# WEST COLUMBIA VOLUNTEER FIRE DEPARTMENT # 43

## PINEMOUNT VOLUNTEER SUB STATION LAKE CITY, FLORIDA

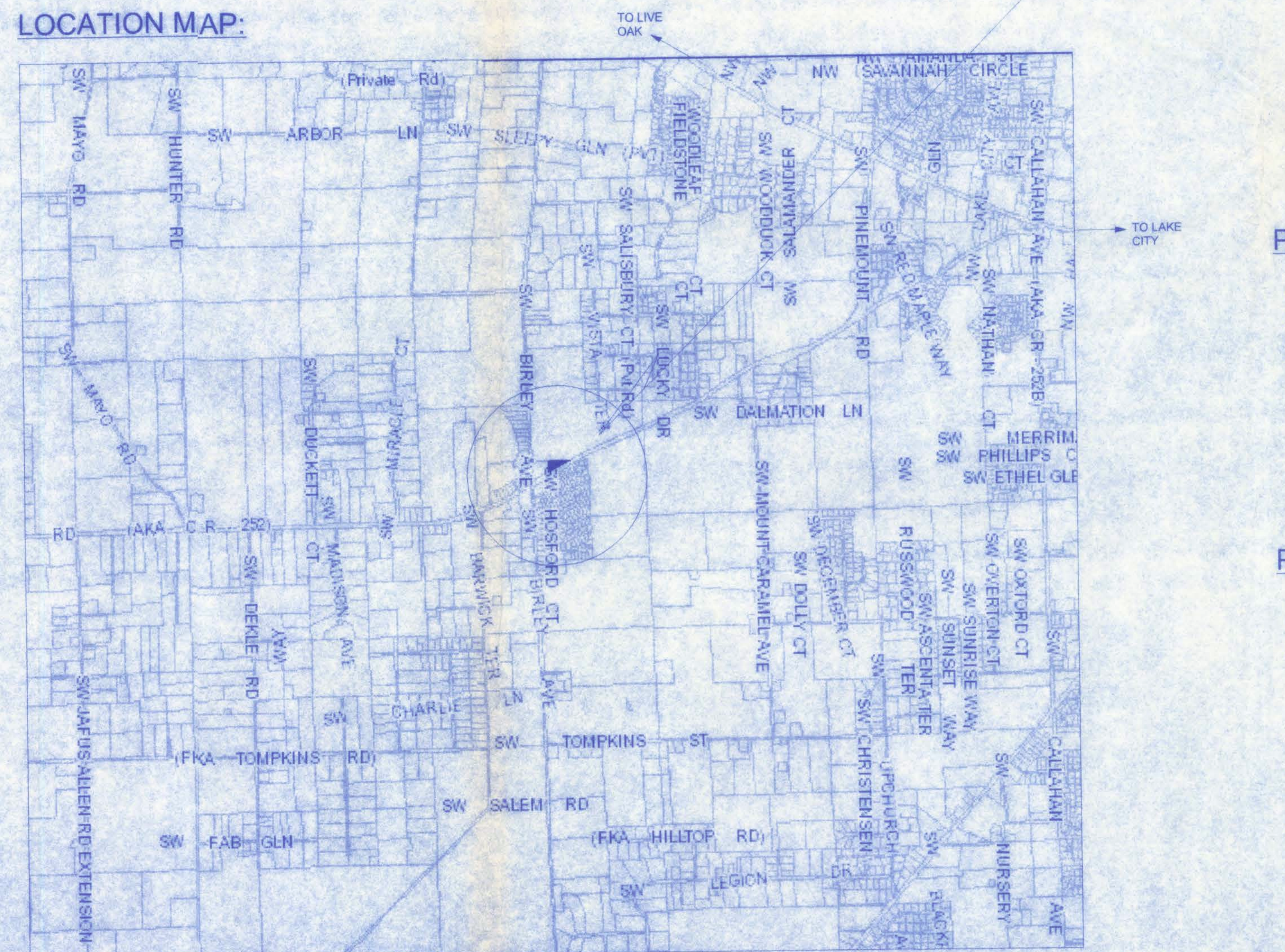
### SHEET INDEX:

SP-1 EXISTING SITE PLAN  
SP-2 PROPOSED SITE PLAN  
SP-3 GRADING/E&SC PLAN



VICINITY MAP

### LOCATION MAP:



### PLANS PREPARED FOR:

COLUMBIA COUNTY FIRE DEPARTMENT  
PINEMOUNT VOLUNTEER SUB-STATION # 43  
LAKE CITY, FLORIDA 32055  
PROJECT NO: 06.C040

### PLANS PREPARED BY:

Freeman  
Design Group  
101 N.W. MADISON STREET  
SUITE 9105  
LAKE CITY, FL 32055  
(904) 752-4209  
SHEET 1 OF 3

William H. Freeman  
9/12/07  
PE# 56001

NOTE:

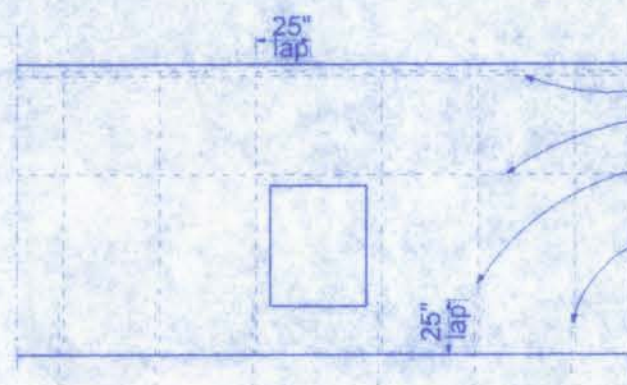
ALL WORK SHALL CONFORM TO AT LEAST THE MINIMUM STANDARD OF THE FOLLOWING CODES:  
2004 FLORIDA BUILDING CODE, BUILDING, w/2006 REVISIONS  
2004 FLORIDA BUILDING CODE, FUEL GAS, w/2006 REVISIONS  
2004 FLORIDA BUILDING CODE, MECHANICAL, w/2006 REVISIONS  
2004 FLORIDA BUILDING CODE, PLUMBING, w/2006 REVISIONS  
2004 FLORIDA FIRE PREVENTION CODE  
2005 NATIONAL ELECTRIC CODE,  
OR LATEST EDITIONS.

GENERAL NOTES:

1. THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ALL CLAIMS, WHETHER FROM PERSONAL INJURY OR PROPERTY DAMAGE, ARISING FROM EVENTS ASSOCIATED WITH THE WORK PERFORMED UNDER THE CONTRACT FOR THIS PROJECT.
2. THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL WARRANT ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING THE WORK DATE OF FINAL COMPLETION AND ACCEPTANCE BY THE OWNER. DEFECTS IN MATERIALS, EQUIPMENT, COMPONENTS AND WORKMANSHIP SHALL BE CORRECTED AT NO FURTHER COST TO THE OWNER DURING THE ONE YEAR WARRANTY PERIOD.
3. AT THE OWNER'S OPTION, A WARRANTY INSPECTION SHALL BE PERFORMED DURING THE ELEVENTH MONTH FOLLOWING THE COMMENCEMENT OF THE WARRANTY PERIOD. FOR THE PURPOSE OF DETERMINING ANY WARRANTY WORK THAT MAY BE REQUIRED, THE CONTRACTOR SHALL BE PRESENT DURING THIS INSPECTION IF REQUESTED BY THE OWNER.
4. THE CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES, TESTS AND THE LIKE THAT MAY BE REQUIRED BY THE VARIOUS AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT BE THEY CITY, COUNTY, STATE OR FEDERAL.
5. THE OWNER SHALL FILE A "NOTICE OF COMMENCEMENT" PRIOR TO THE BEGINNING OF THE PROJECT AND THE CONTRACTOR(S) SHALL FILE "NOTICE TO OWNER" AND PROVIDE "RELEASE OF LIEN" FOR ALL PAYMENT REQUESTS PRIOR TO DISBURSEMENT OF ANY FUNDS.
6. ANY AND ALL DISPUTES ARISING FROM EVENTS ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT BETWEEN THE OWNER, CONTRACTOR(S) AND SUPPLIERS SHALL BE RESOLVED THROUGH BINDING ARBITRATION.
7. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND LOCAL REGULATIONS, INCLUDING APPLICABLE ENERGY CODES. ALL COMPONENTS OF THE BUILDING SHALL MEET WITH THE MINIMUM ENERGY REQUIREMENTS OF THE BUILDING CODE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IN WRITING PRIOR TO THE COMMENCEMENT OF THE WORK.
8. ALL INSULATION SHALL BE LEFT EXPOSED AND ALL LABELS LEFT INTACT ON THE WINDOWS AND DOORS UNTIL INSPECTED BY THE BUILDING OFFICIAL.
9. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.

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 (f<sub>m</sub> = 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 FINS 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 DUGC-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 in<sup>3</sup> 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.



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
  - Footings Dowels drilled into 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.

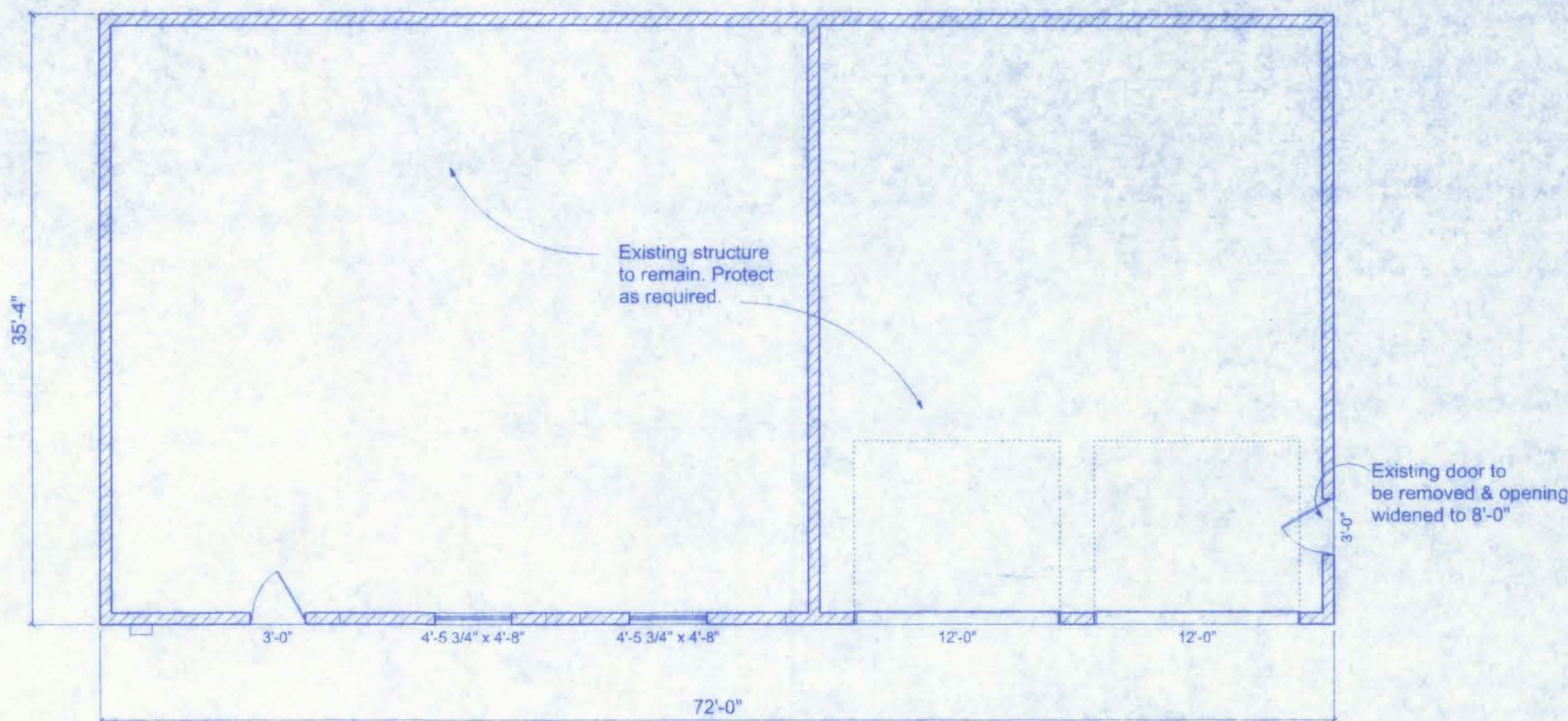
WALL REINFORCING REQUIREMENTS

NTS

NOTE:

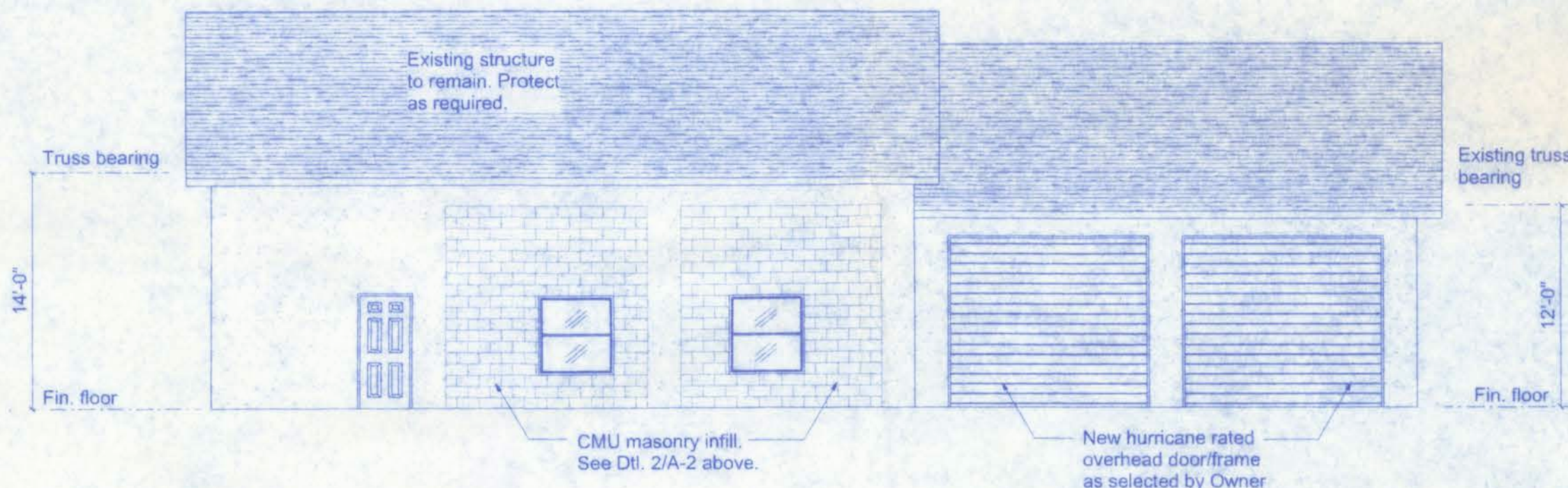
ALL WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609, FLORIDA BUILDING CODE, 2004 EDITION w/2006 REVISIONS, AND IN ACCORDANCE WITH ASCE-7

|                                 |           |                 |
|---------------------------------|-----------|-----------------|
| 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        |
| ROOF DEAD LOAD                  |           | 10 psf          |
| ROOF LIVE LOAD                  |           | 20 psf          |
| FLOOR DEAD LOAD                 |           | 20 psf          |
| FLOOR LIVE LOAD                 |           | 40 psf          |



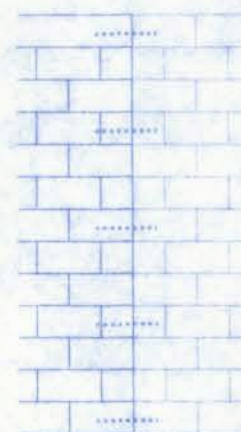
Existing Floor Plan

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



Existing Front Elevation

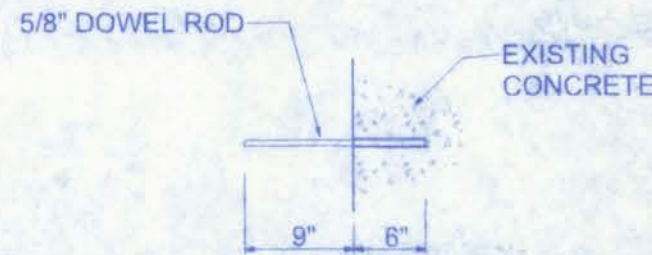
SCALE: 1/8" = 1'-0"



NEW TO EXISTING WALL JOINT DETAIL

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

NOTE:  
DRILL HOLE 1/8" LARGER THAN DOWEL DIAMETER AND 1/8" DEEPER THAN EMBEDMENT LENGTH INTO EXISTING CONCRETE AND REMOVE DUST WITH OIL FREE COMPRESSED AIR. SET DOWELS WITH SIMPSON ET22 EPOXY INTO HOLES AND LET REMAIN UNTIL IT SETS.

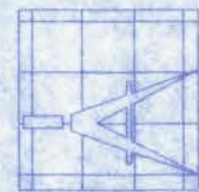


DOWEL DETAIL

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

West Columbia Volunteer  
Fire Department Station 43

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



Freeman  
Design Group, Inc.

DATE 7/12/07  
DRAWN BY J.T.D.

REVISIONS

SHEET A-1

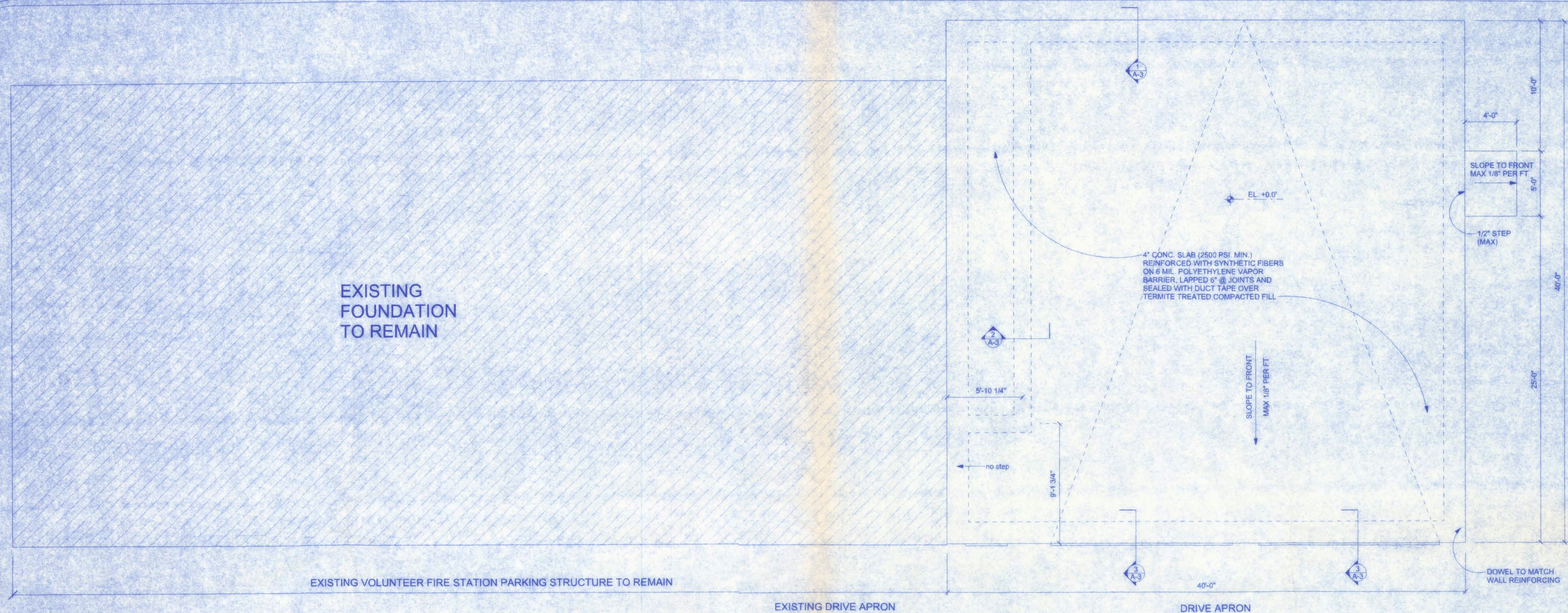
OF 8

PROJECT NO. 06.C040

CERTIFICATE OF AUTHORIZATION: 0008701

PE # 95001

Willie Hwa  
9/26/07  
P.E. # 56001



West Columbia Volunteer  
Fire Department Station 43

161 NW MADISON STREET  
SUITE #102  
LAKE CITY, FL 32055  
(386) 758-4209  
CERTIFICATE OF AUTHORIZATION: 00003701

**Freeman**  
Design Group, Inc.

DATE: 7/12/07  
DRAWN BY: J.T.D.

REVISIONS

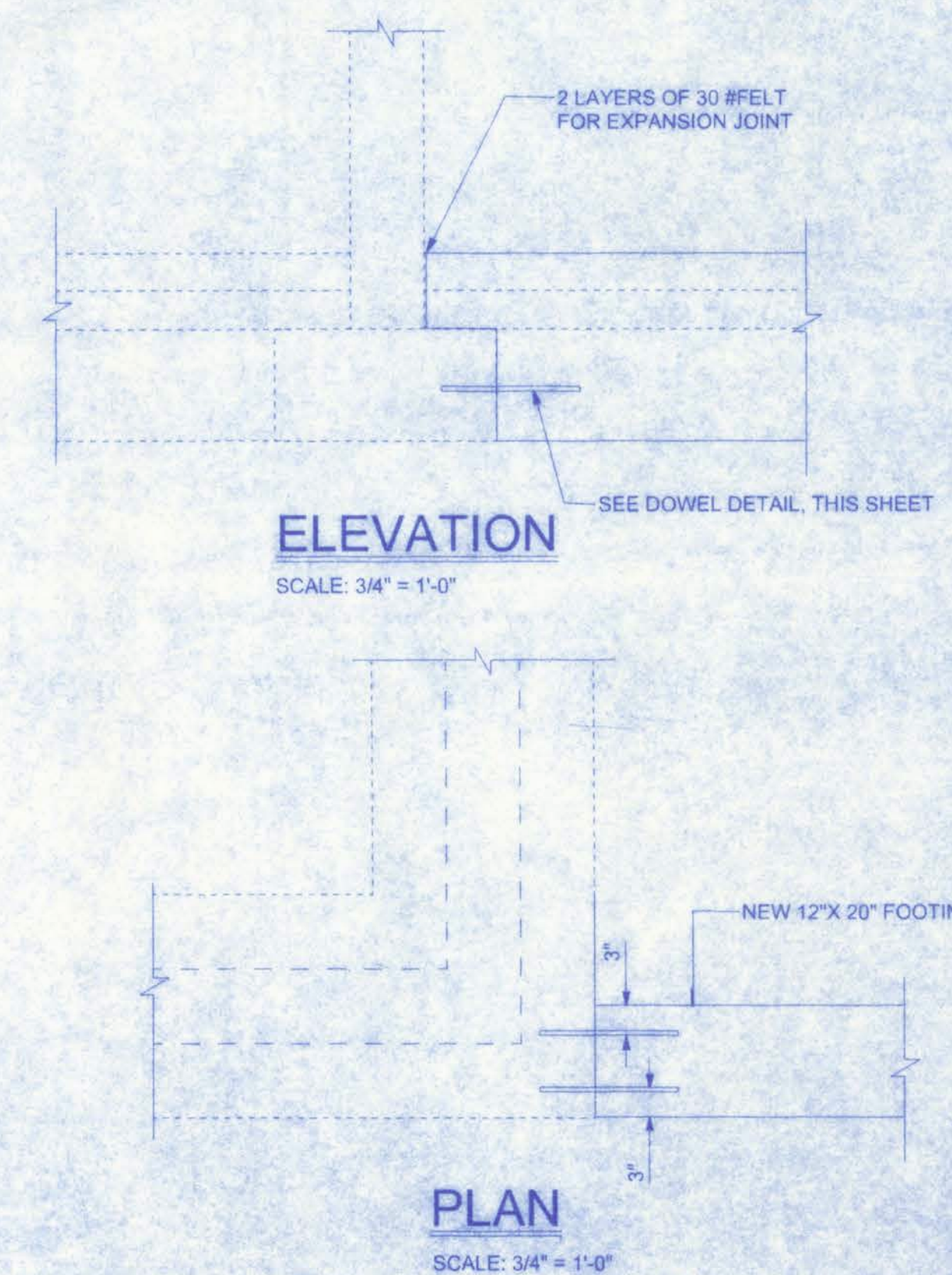
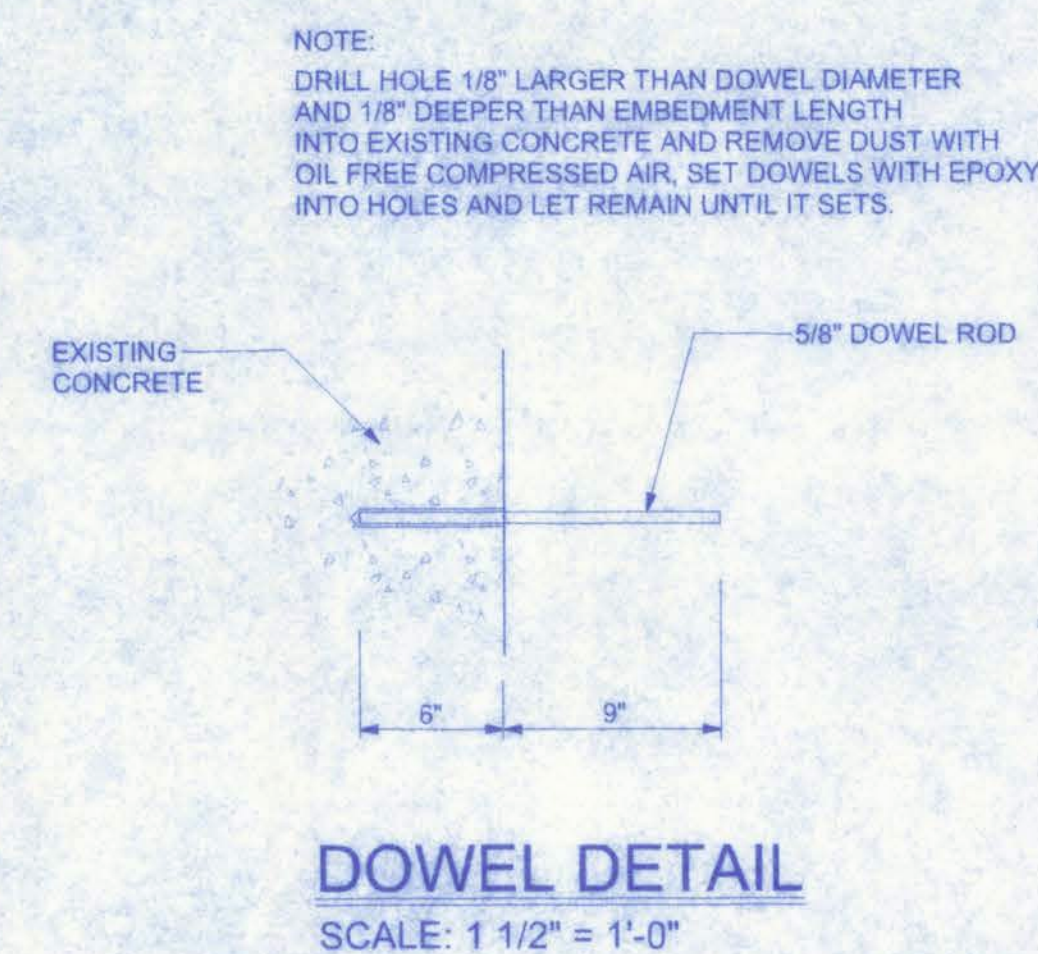
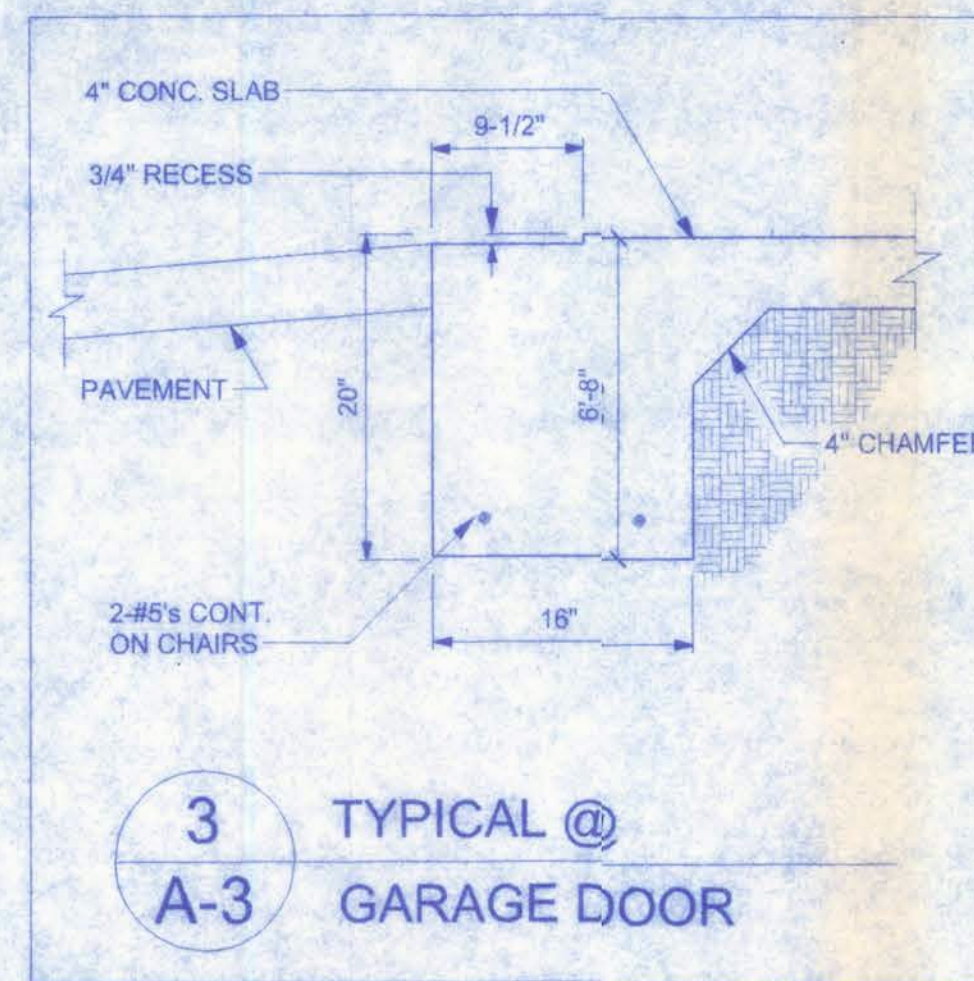
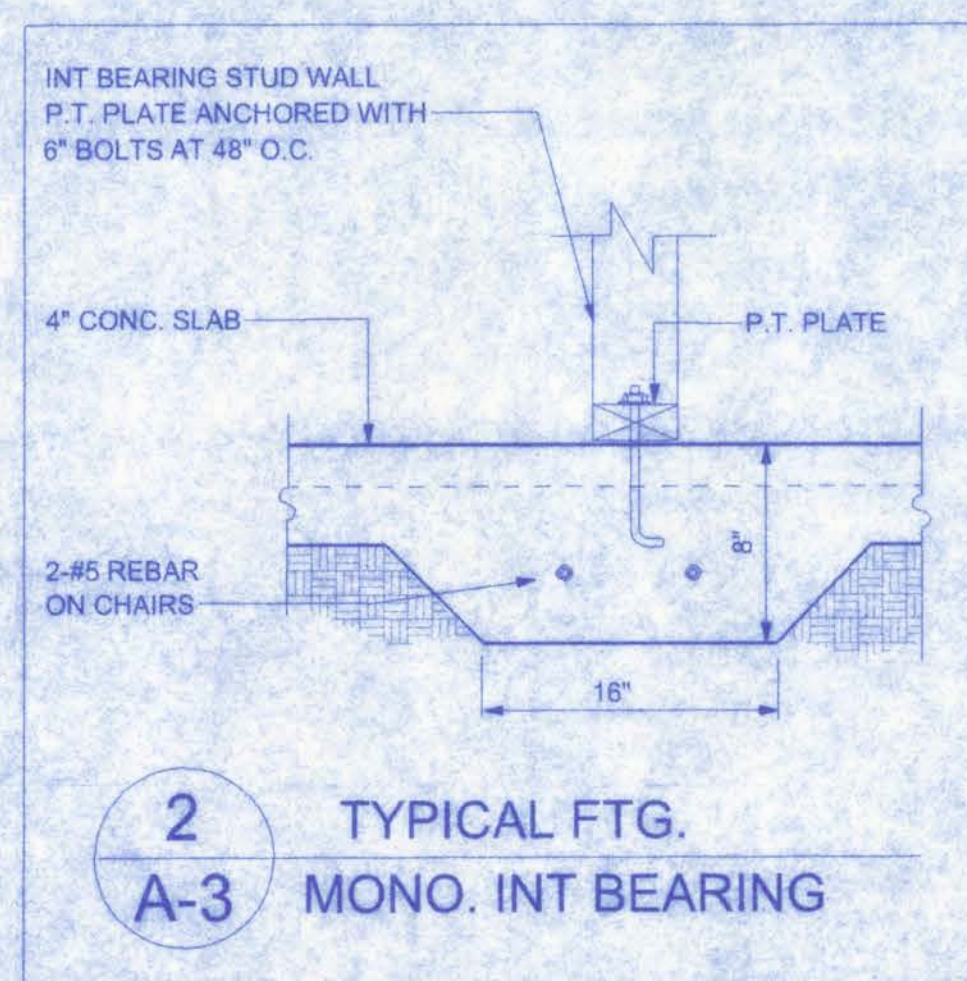
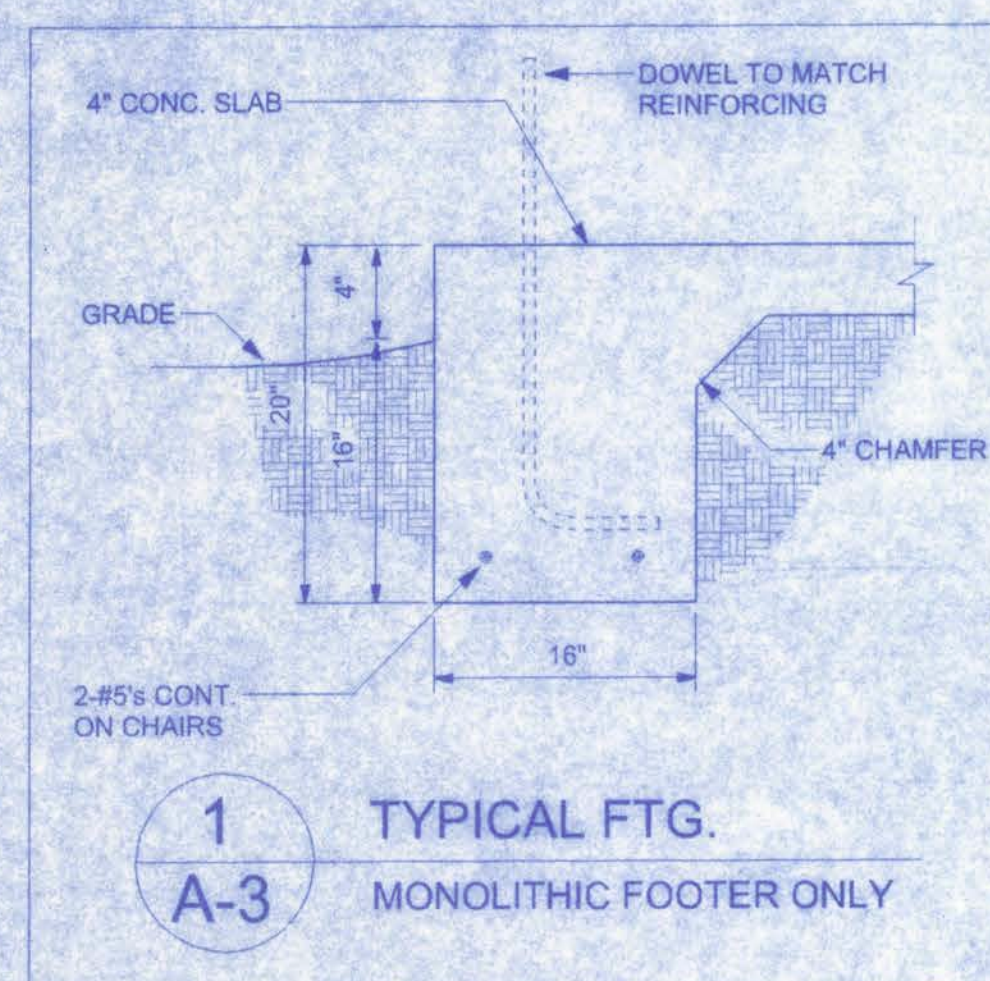
SHEET: A-3

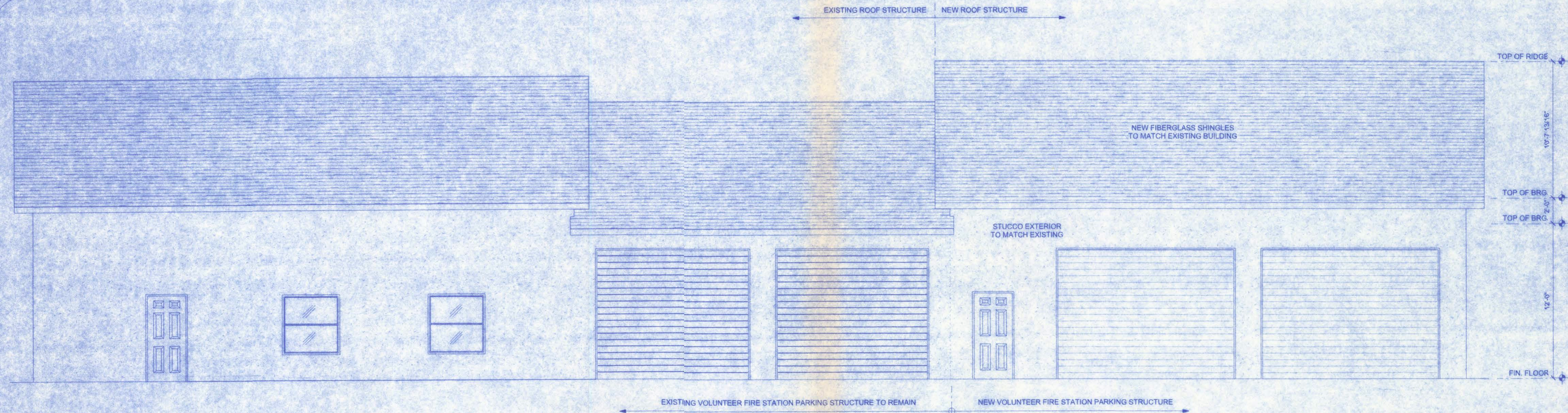
OF: 8

PROJECT NO.: 06.C040

# **FOUNDATION PLAN**

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



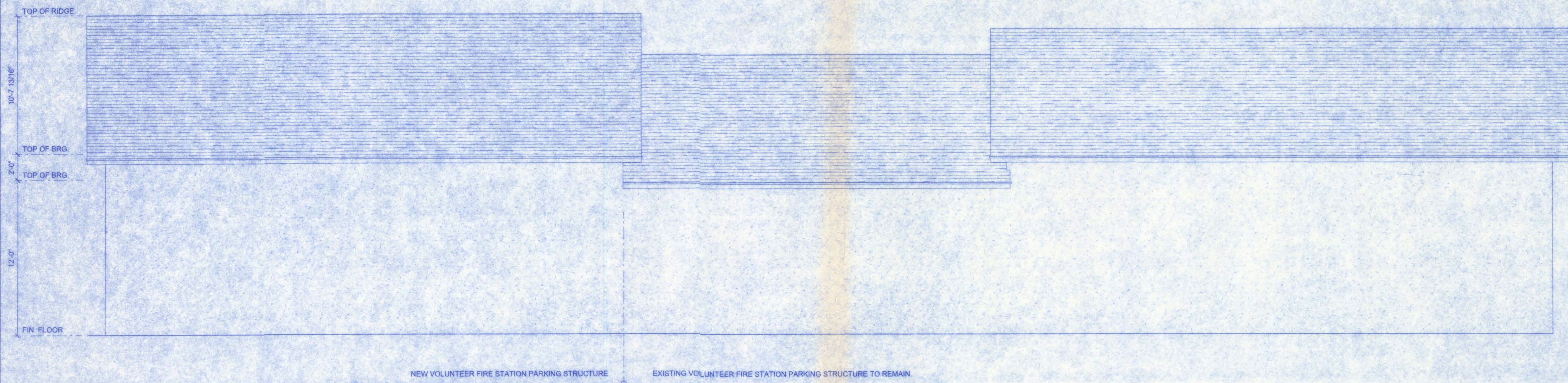


# FRONT ELEVATION

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

NOTE: VENTILATE ROOF TO 1/300TH THE INSULATED ATTIC.  
(1600.00 SF / 300 = 5.333 SF \* 144 SQ. IN. / SF = 768.00 SQ. IN.)

NOTE:  
THE RIDGE HEIGHT IS GIVEN FOR MEAN ROOF  
HEIGHT DETERMINATION ONLY. DO NOT USE  
THIS DIMENSION FOR ROOF CONSTRUCTION.



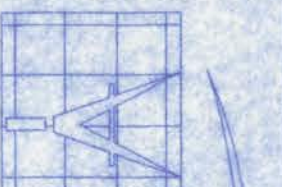
# REAR ELEVATION

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

W. H. H. H. H.  
9/1/2007  
P.E. # 58001

West Columbia Volunteer  
Fire Department Station 43

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



Freeman  
Design Group

DATE  
7/12/07

DRAWN BY  
J.T.D.

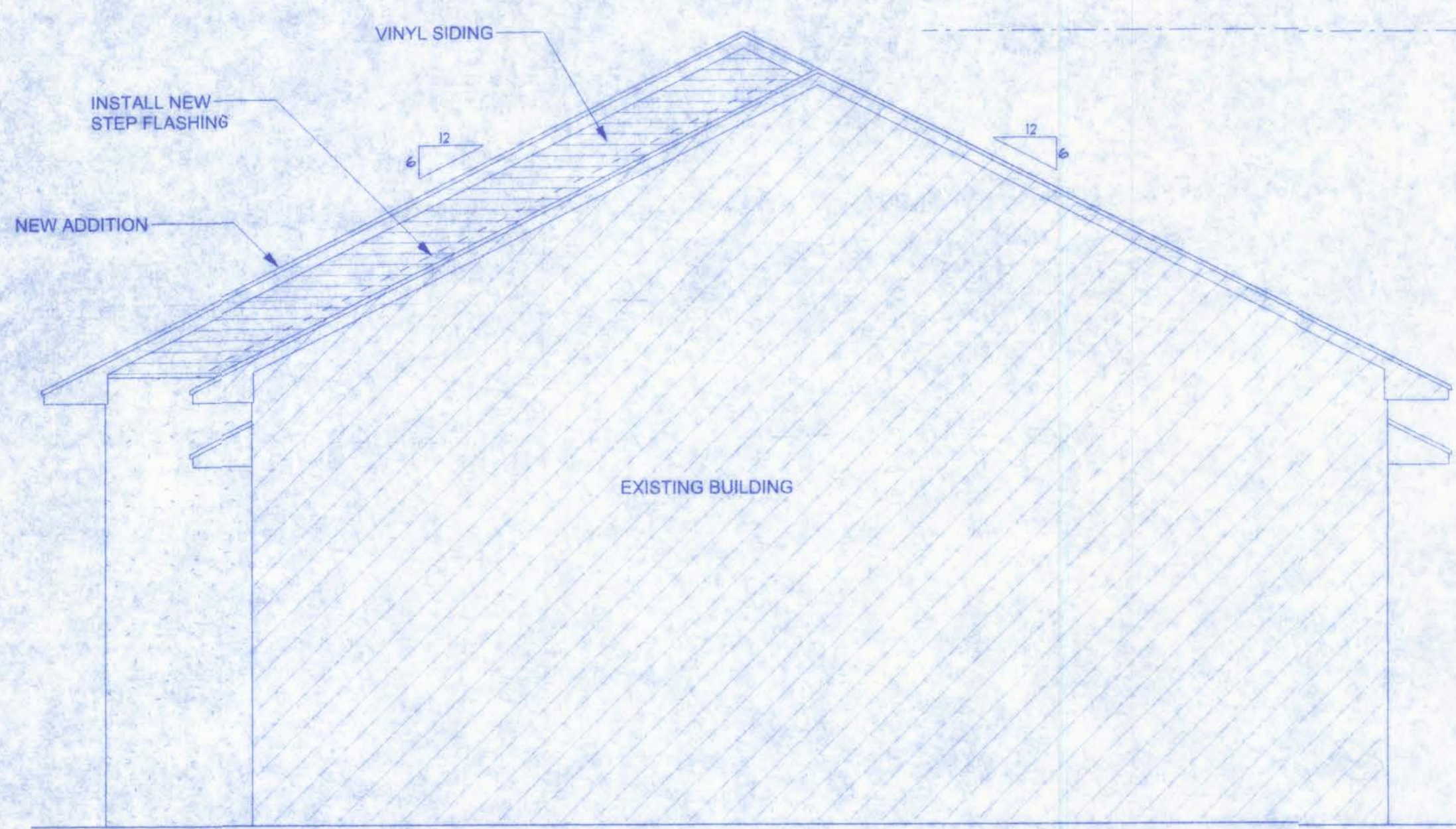
REVISIONS

SHEET A-4

OF 8

PROJECT NO.  
06.C040

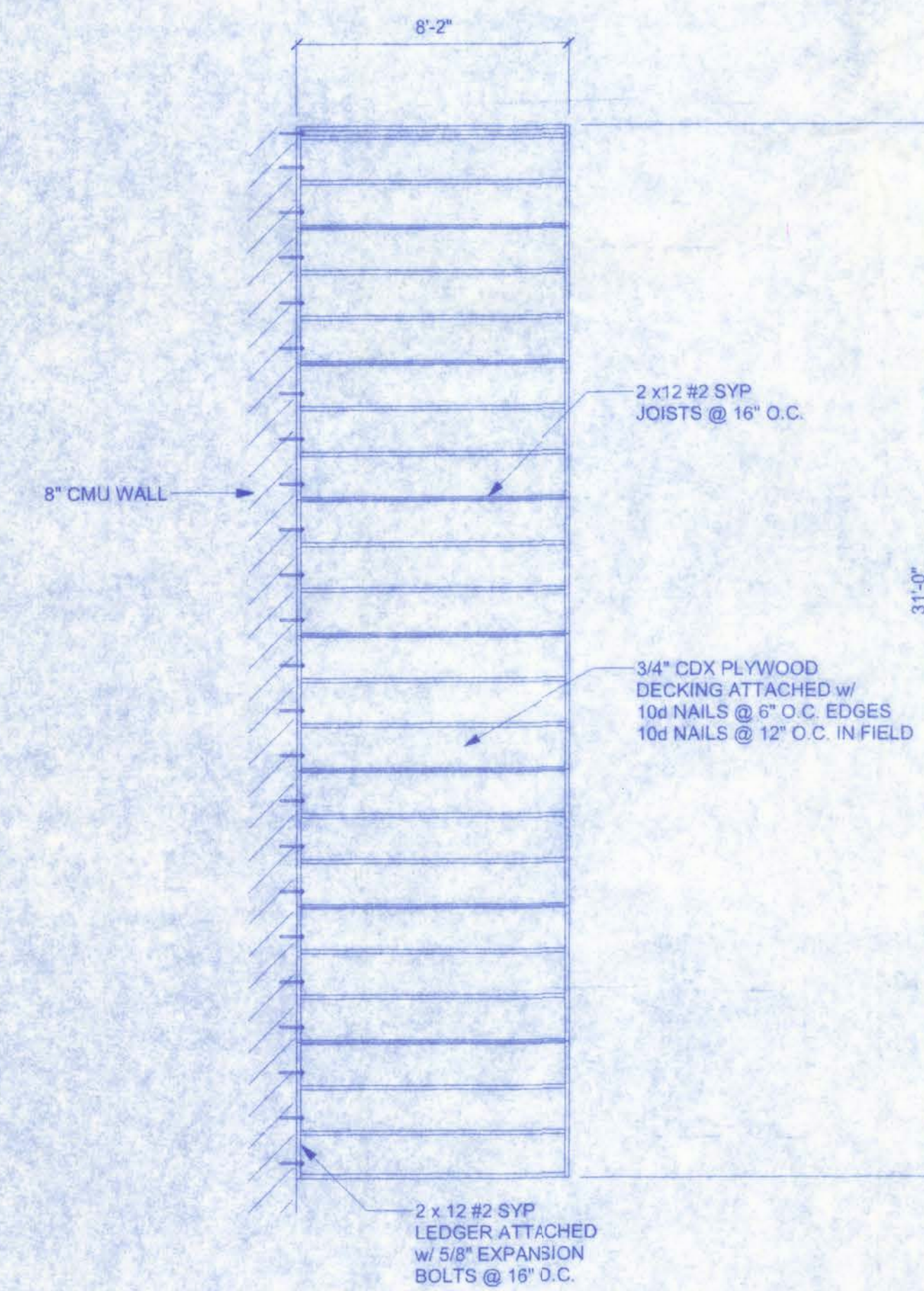
CERTIFICATE OF AUTHORIZATION 0008701



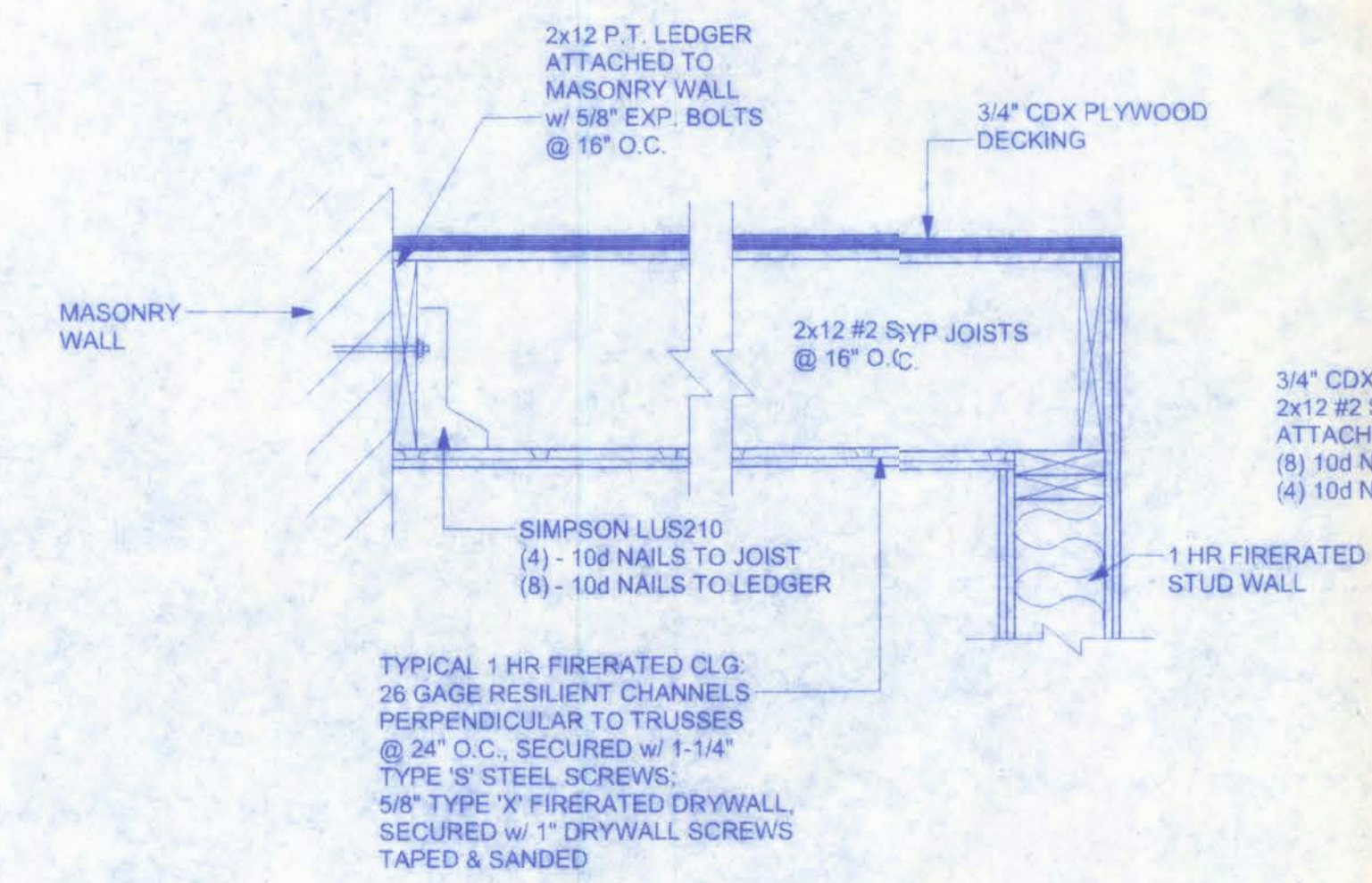
**LEFT ELEVATION**  
SCALE: 1/4" = 1'-0"



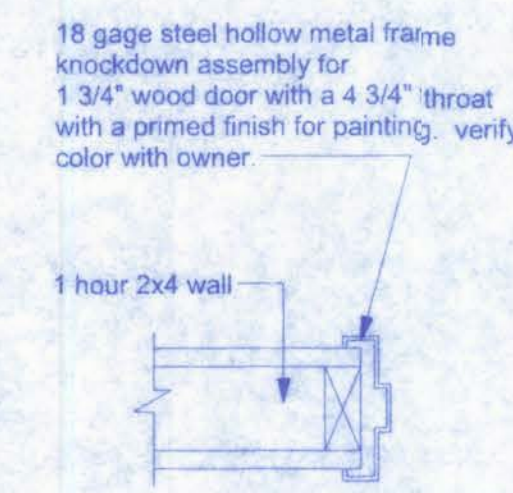
**RIGHT ELEVATION**  
SCALE: 1/4" = 1'-0"



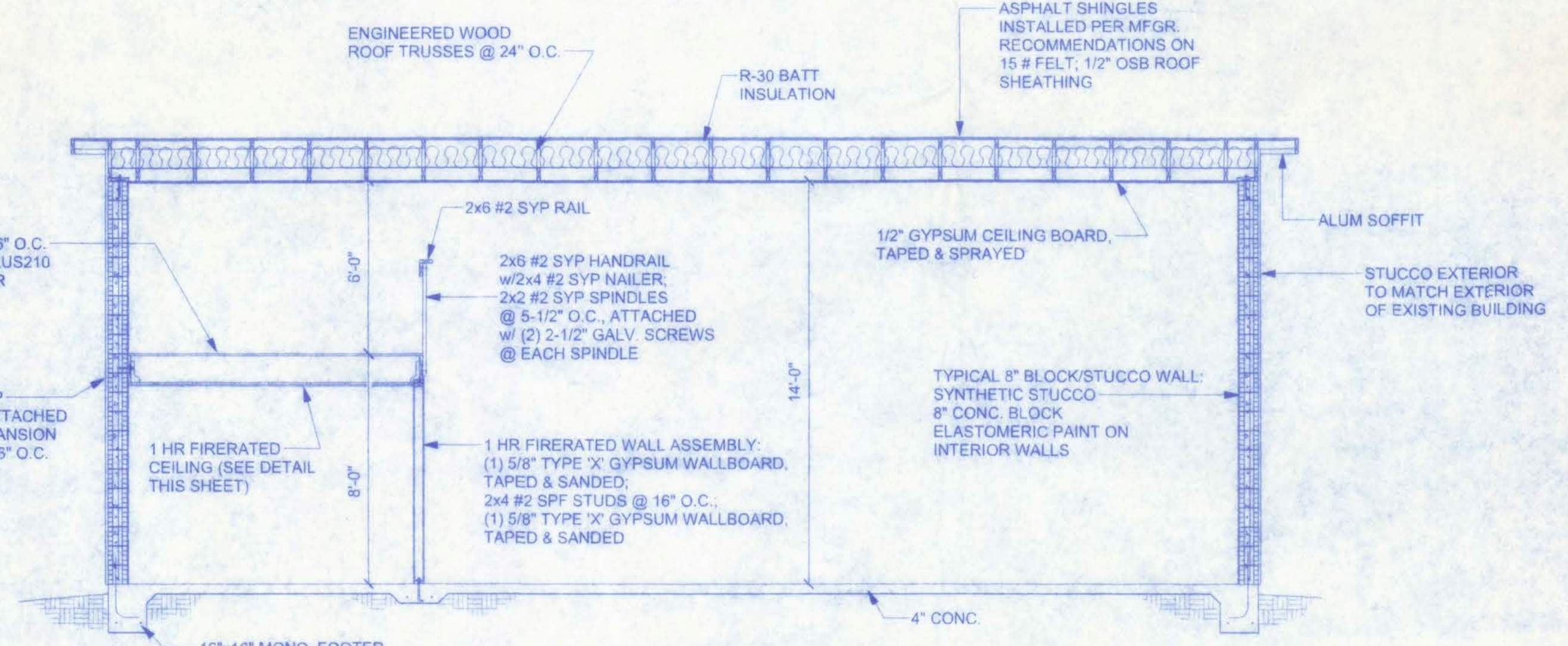
**LOFT JOIST LAYOUT**  
SCALE: 1/4" = 1'-0"



**1-HOUR CEILING (UL 263)**  
(TYPICAL)



**1 HR WALL JAMB DETAIL**  
SCALE: 1 1/2" = 1'-0"



**A SECTION THRU**  
SCALE: 1/4" = 1'-0"

| NEW DOOR SCHEDULE |                   |                   |          |          |               |           |                      |             |             |             |
|-------------------|-------------------|-------------------|----------|----------|---------------|-----------|----------------------|-------------|-------------|-------------|
| NO.               | LOCATION          | DOOR SIZE         | TYPE     | MATERIAL | JAMB MATERIAL | JAMB SIZE | LOCKS                | DOOR CLOSER | DOOR BUMPER | FIRE RATING |
| A                 | FRONT, SIDE ENTRY | 3/0 X 6/8 X 1 3/4 | 6 PANEL  | METAL    | METAL         | 6 5/8     | ENTRY LOCK DEAD BOLT | X           | X           | 20 MIN.     |
| B                 | GARAGE FRONT      | 3/0 X 6/8 X 1 3/4 | OVERHEAD | METAL    | METAL         | 6 5/8     | ENTRY LOCK           |             |             | 20 MIN.     |
| C                 | STORAGE           | 3/0 X 6/8 X 3/4   | 6 PANEL  | METAL    | METAL         | 4 3/4     | ENTRY LOCK DEAD BOLT | X           | X           | 20 MIN.     |

**NOTE:**  
ALL DOOR HANDLESET & LOCKS ARE TO BE KWIK-SET OR EQUAL FINISH AS SELECTED BY OWNER.

West Columbia Volunteer  
Fire Department Station 43

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

**Freeman**  
Design Group

DATE 7/12/07  
DRAWN BY J.T.D.

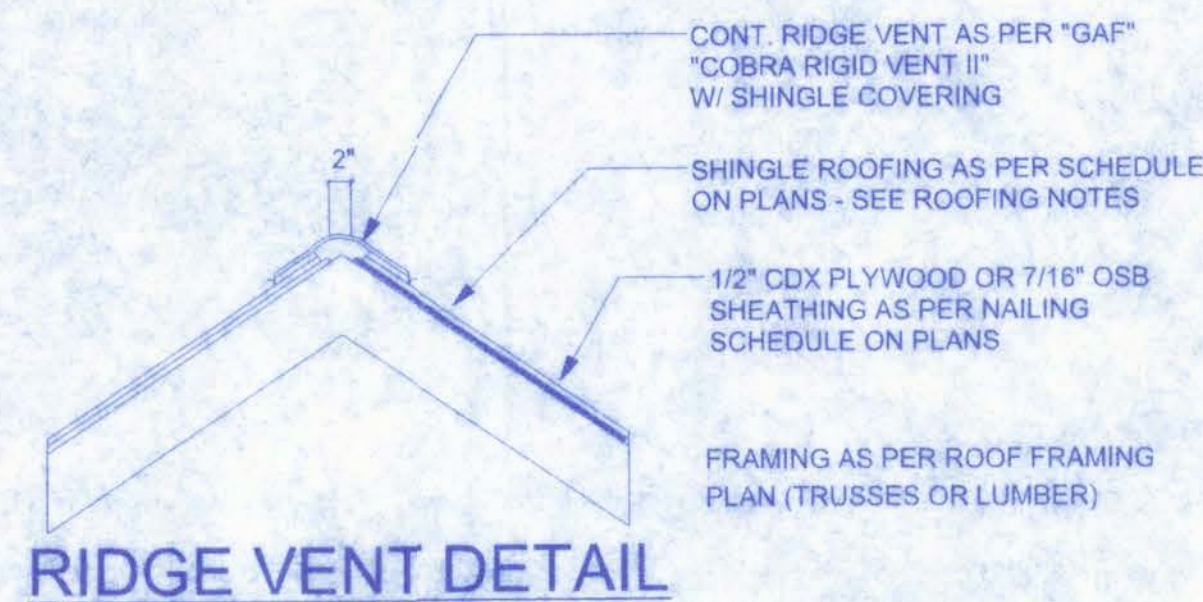
REVISIONS

SHEET A-5

OF 8

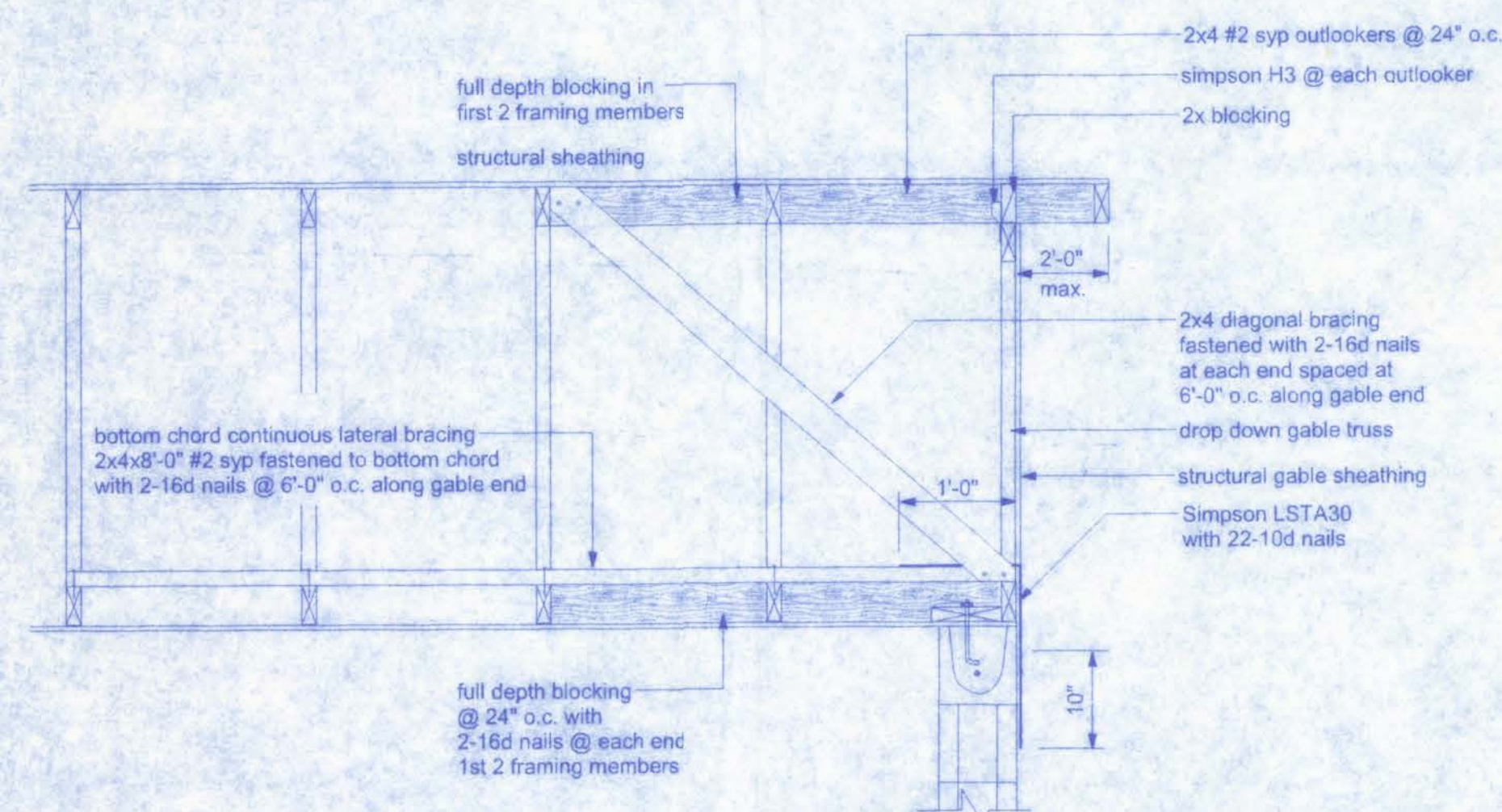
PROJECT NO.  
06.C040

1/12/07  
PE 158001



### VENTILATION REQUIREMENTS

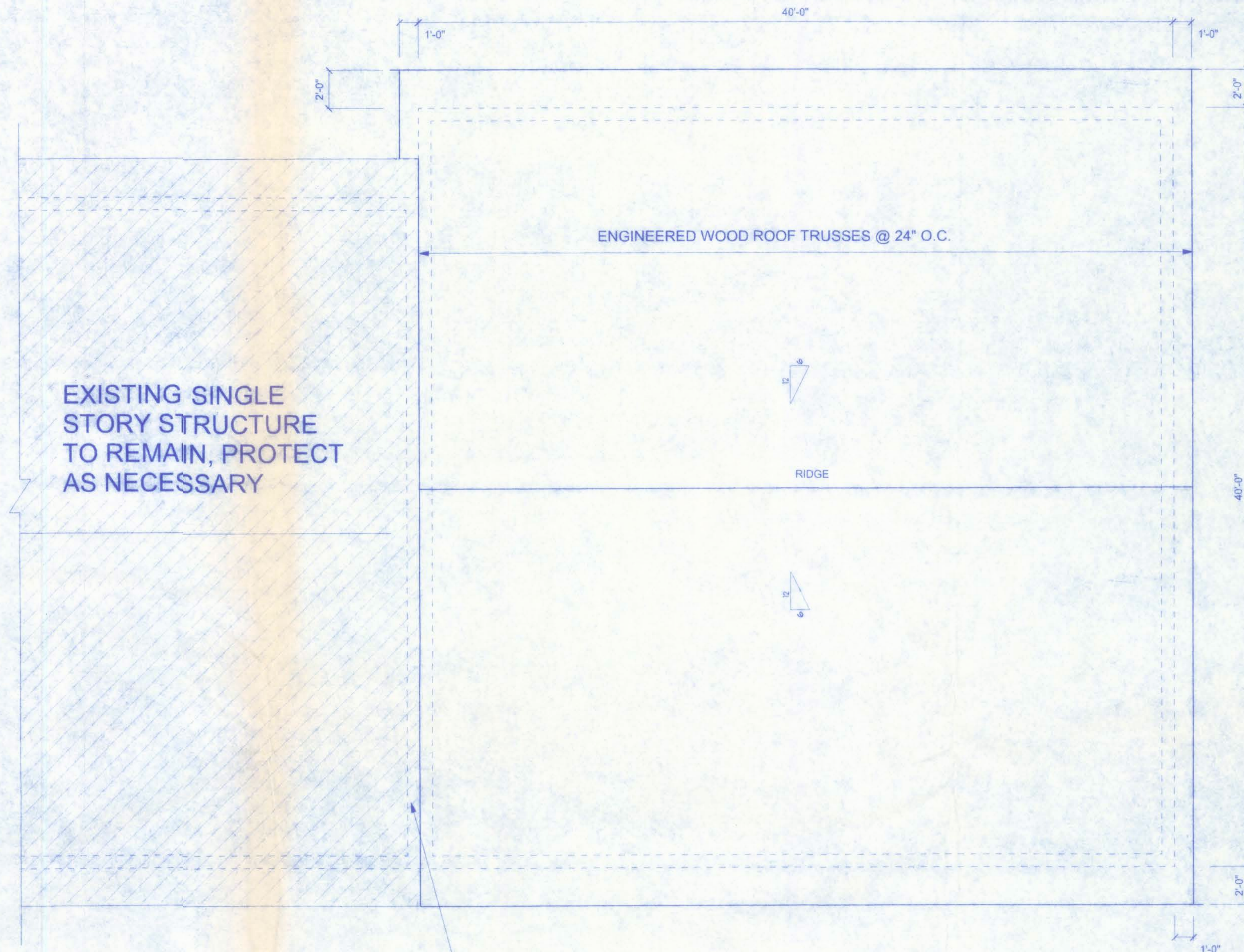
| Total Attic Square Footage | Recommended Length of Cobra Rigid Vent II (Feet) | Minimum Intake Ventilation (Net Free Area in Sq. In.) |
|----------------------------|--------------------------------------------------|-------------------------------------------------------|
| 1600                       | 21                                               | 384                                                   |
| 1900                       | 25                                               | 456                                                   |
| 2200                       | 29                                               | 528                                                   |
| 2500                       | 33                                               | 600                                                   |
| 2800                       | 41                                               | 744                                                   |
| 3100                       | 41                                               | 820                                                   |
| 3400                       | 45                                               | 816                                                   |



### END WALL BRACING FOR CEILING DIAPHRAGM

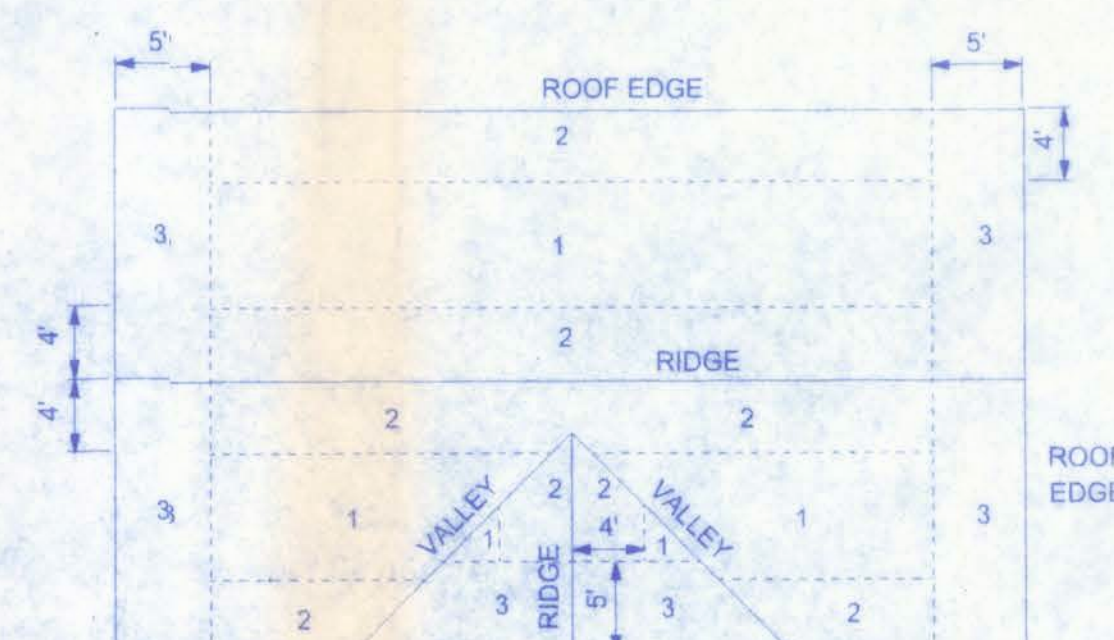
NTS

NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE



### ROOF PLAN

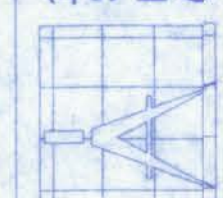
SCALE: 1/4" = 1'-0"



### ROOF SHEATHING NAILING ZONES (GABLE ROOF)

| NAILING ZONE | SHEATHING TYPE           | FASTENER                                        | SPACING                                   |
|--------------|--------------------------|-------------------------------------------------|-------------------------------------------|
| 1            | 1/2" O.S.B. OR 15/32 CDX | 8d COMMON OR 8d HOT DIPPED GALVANIZED BOX NAILS | 6 in. o.c. EDGE                           |
| 2            |                          |                                                 | 12 in. o.c. FIELD                         |
| 3            |                          |                                                 | 6 in. o.c. EDGE                           |
|              |                          |                                                 | 4 in. o.c. @ GABLE ENDWALL OR GABLE TRUSS |
|              |                          |                                                 | 6 in. o.c. EDGE                           |
|              |                          |                                                 | 6 in. o.c. FIELD                          |

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



Freeman  
Design Group

DATE  
7/12/07

DRAWN BY  
J.T.D.

REVISIONS

SHEET A-6

OF 8

PROJECT NO.  
06.C040

West Columbia Volunteer  
Fire Department Station 43

9/1/07  
P.E. #58001

WIRING NOTES:

WIRING, DISTRIBUTION EQUIPMENT AND DEVICES

A. CONDUCTORS: Copper, in accordance with ASTM Standards, size reference AWC. Conductors No. 10 and smaller size solid, No. 8 and Larger, Stranded. Insulation of conductor thermoplastic, type THHN (min. size No. 12) any wire installed outside, underground, in slabs or exposed to moisture shall have THWN insulation.

B. RACEWAYS: RIGID STEEL CONDUIT, full weight pipe galvanized, threaded, and minimum 1/2 inch except as noted or required for wiring. ELECTRICAL METALLIC TUBING (EMT), thin wall pipe, galvanized, threadless, compression fittings, and minimum 1/2" size except as noted or required for wiring. FLEXIBLE STEEL CONDUIT, continuous single strip, galvanized, and minimum 1/2" size except as noted or required for wiring. PVC CONDUIT, heavy duty type, size as indicated. Separate raceways shall be used for each voltage system.

C. DISCONNECT SWITCHES: General Duty, horsepower rated for motor loads 250 volt rating, fused or non-fused as noted; number of poles as indicated. Enclosure NEMA 1 for indoor use and NEMA 3R for weatherproof applications. Switch to be Square "D" or equal.

D. CIRCUIT BREAKERS: molded case, thermal-magnetic, quick make, quick break, bolt-on type with manually operated insulated trip-free handle. Multi-pole types with internal common trip bar. Terminals suitable for copper or aluminum conductors. Interrupting capacity minimum 10,000 RMS symmetrical amperes circuit circuit breakers to be Square "D", Siemens or equal, type as required.

E. PANELBOARDS: Voltage, phasing, and ampere ratings as indicated, circuit breaker type as indicated, buss bars of hard drawn copper, minimum 98% conductivity, galvanized steel back box, door and trim. All corners lapped and welded, hardware chrome plated with flush lock and catch. Hinges semi-concealed, 5 knuckles steel with nonferrous pins. 180 degree openings. Minimum gutter space 5-3/4" sides, top and bottom. Increase size where required by code. Directory holder complete with clear plastic transparent cover indicating typewritten list of feeder cables, conduit sizes, circuit number, outlets of equipment supplied, and their location. Circuit breaker type panelboards to be Square "D" type NQOD or I-Line, or equal. A plastic label shall be located on exterior of panelboard identifying the system voltage, phase, and current rating.

F. WIRING DEVICES: All devices their product of the same manufacturer. Wall switches and receptacles to be 20 amp, 125 volt, unless noted otherwise. Color to be selected by Architect.

G. DEVICE PLATES: provide for all outlets where devices are installed. Provide engraved marking for special outlets (where noted). Provide blank plates for empty or future outlet boxes. DEVICE AND DEVICE PLATE COLORS TO BE VERIFIED WITH ARCHITECT AND OWNER.

GROUNDING SYSTEM:

a. EQUIPMENT: Ground non-current carrying metal parts of panel board, raceways and all lighting fixtures. All conduit shall have equipment grounding conductors.

INSTALLATION:

A. Secure all supports to building structure as specified under raceways. Support horizontal runs of metallic conduit not more than 10 feet apart. Run exposed raceways parallel with or at right angles to walls.

B. Pass raceways over water, steam or other piping when pull boxes are not required. no raceway within 3 inches of steam or hot water pipes, or appliances. expect crossing where the raceway shall be at least 12 inches from pipe cover.

C. Cut conduit ends square, ream smooth. Paint male threads of field threaded conduit with Graphite based pip compound. Draw up tight with conduit couplings.

D. Leave wire sufficiently long to permit making final connections. In raceway over 50 feet in which wiring is not installed, furnish pull wire.

E. Verify locations of outlets and switches.

F. Support panel, junction and pull boxes independently to building structure with no weight bearing on conduits.

G. Connect conduit to motor conduit terminal bases with flexible conduit: minimum 18 inches in length and 50% slack. Do not terminate in or fasten raceways to motor foundation.

H. This contractor shall provide a temporary electrical distribution system as required; 120/208 volt, 1 phase, 100 amp, for new construction. All temporary work shall be installed in a neat and safe manner.

I. Contractor to remove and salvage all abandoned electrical equipment.

J. This contractor shall warrant all labor and materials for one year from date of final written acceptance.

NOTE:

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

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 OCCUPANTS. 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 20AB 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.

NOTE:

ALL BRANCH CIRCUITS THAT SUPPLY 125-VOLT, SINGLE PHASE, 15 AND 20 AMP OUTLETS INSTALLED IN DWELLING UNIT BEDROOMS SHALL BE PROTECTED BY AN ARC FAULT CIRCUIT INTERRUPTER LISTED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT.

EXISTING SINGLE STORY STRUCTURE TO REMAIN, PROTECT AS NECESSARY

Keypad location

EXISTING STRUCTURE

NEW CONSTRUCTION

NOTE:

NEW ELECTRICAL TO BE TIED INTO EXISTING ELECTRICAL SYSTEM, IF DEEMED NECESSARY. AN ELECTRICAL ENGINEER SHOULD BE REQUISITIONED TO INSTALL A NEW SUB-PANEL BOX FOR THE NEW ELECTRICAL SYSTEM.

ELECTRICAL PLAN

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

LOAD CALCULATIONS:

|                                         | CONNECTED LOAD      | DEMAND FACTOR               | DEMAND LOAD |
|-----------------------------------------|---------------------|-----------------------------|-------------|
| CONTINUOUS LIGHTING OUTSIDE LIGHTING    | 2,500 VA            | 1.25                        | 3,125 VA    |
|                                         |                     | 1.25                        | 1,250 VA    |
|                                         |                     | CONT. TOTAL:                | 4,375 VA    |
| NON-CONTINUOUS RECEPTACLES EM. LIGHTING | 4,000 VA            | 1.0                         | 4,000 VA    |
|                                         | 1,000 VA            | 1.0                         | 1,000 VA    |
|                                         |                     | NON-CONT. TOTAL:            | 5,000 VA    |
|                                         | (CONT. + NON-CONT.) | OVERALL TOTAL:              | 9,375 VA    |
|                                         |                     | @ 120/240 1 PHASE           |             |
|                                         |                     | REQUIRED AVAILABLE SERVICE: | 39.06 AMPS  |

ELECTRICAL PLAN NOTES

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

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

INSTALLATION SHALL BE PER NAT'L. ELECTRIC CODE.

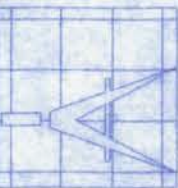
ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS.

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, ADDNS TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT N., 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.

| ELECTRICAL                     | SYMBOL |
|--------------------------------|--------|
| emergency light                |        |
| exit                           |        |
| LAN connection                 |        |
| light                          |        |
| outlet                         |        |
| outlet gfi                     |        |
| switch                         |        |
| switch 3 way                   |        |
| weather proof GFI              |        |
| fluorescent light 1 x 8 2 BULB |        |

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



Freeman  
Design Group

DATE 7/12/07  
DRAWN BY J.T.D.

REVISIONS

SHEET A-7  
OF 8

PROJECT NO.  
06.C040

West Columbia Volunteer  
Fire Department Station 43

4/12/07  
PE # 55001

DECK REQUIREMENTS:

ASPHALT SHINGLES SHALL BE FASTENED TO SOLIDLY SHEATHED DECKS.

SLOPE:  
ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF 2:12 OR GREATER. FOR ROOF SLOPES FROM 2:12 TO 4:12, DOUBLE UNDERLAYMENT IS REQUIRED.

UNDERLAYMENT:  
UNLESS OTHERWISE NOTED, UNDERLAYMENT SHALL CONFORM WITH ASTM D 226, TYPE 1, OR ASTM D 4869, TYPE 1.

SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET:  
SELF-ADHERING POLYMER MODIFIED BITUMEN SHALL COMPLY WITH ASTM D 1970.

ASPHALT SHINGLES  
ASPHALT SHINGLES SHALL HAVE SELF SEAL STRIPS OR BE INTERLOCKING, AND COMPLY WITH ASTM D 225 OR ASTM D 3462.

FASTENERS:  
FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED, STAINLESS STEEL, ALUMINUM OR COPPER ROOFING NAILS, MINIMUM 12 GAUGE SHANK WITH A MINIMUM 3/8 INCH DIAMETER HEAD, OF A LENGTH TO PENETRATE THROUGH THE ROOFING MATERIAL AND A MINIMUM 3/4" INTO THE ROOF SHEATHING. WHERE ROOF SHEATHING IS LESS THAN 3/4" THICK, THE NAILS SHALL PENETRATE THROUGH THE SHEATHING.

ATTACHMENT:  
ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE. WHERE ROOFS LOCATED IN BASIC WIND SPEED OF 110 MPH OR GREATER, SPECIAL METHODS OF FASTENING ARE REQUIRED. UNLESS OTHERWISE NOTED, ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH ASTM D 3161 OR M-DC PA 107-95.

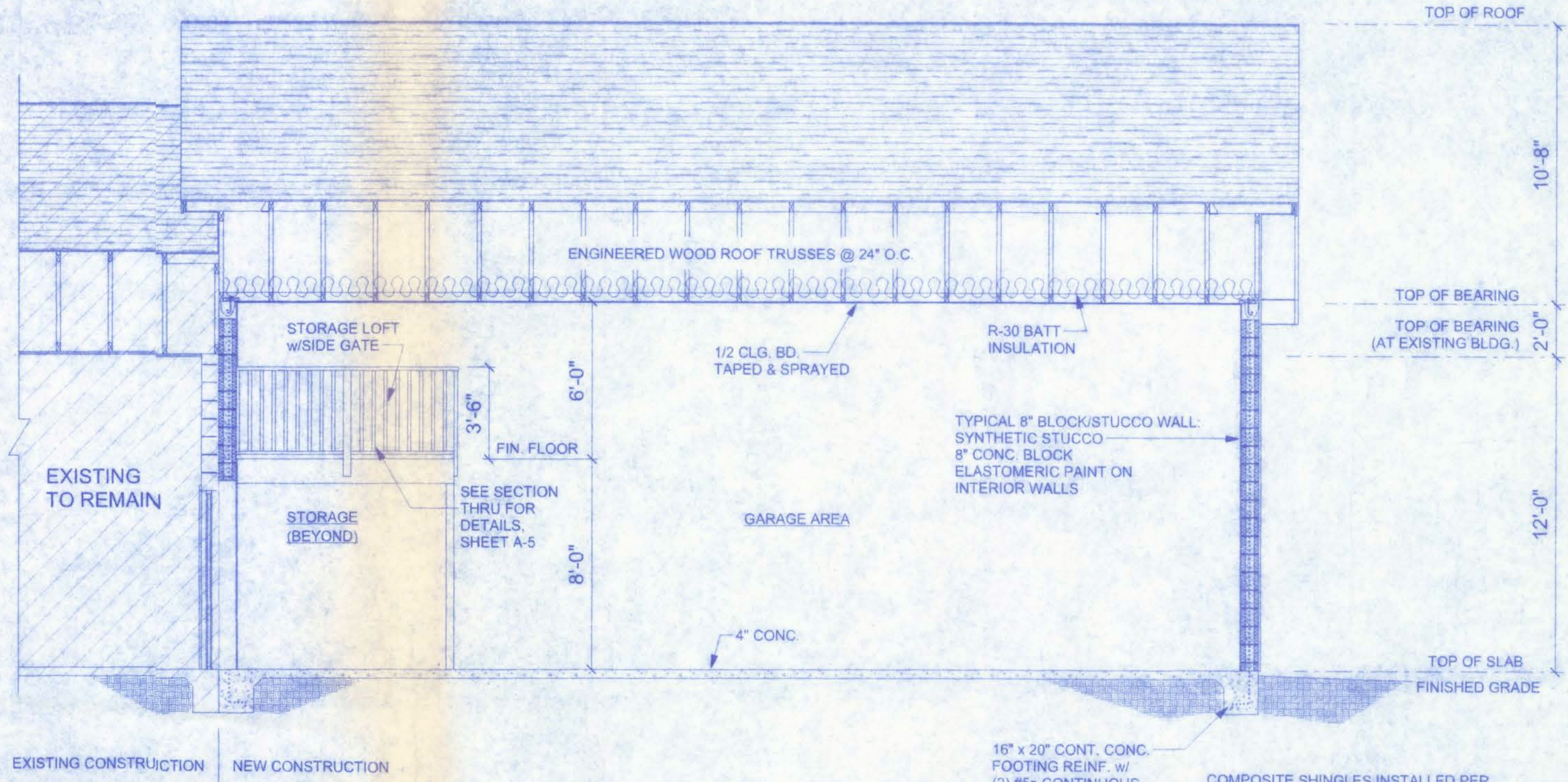
UNDERLAYMENT APPLICATION:  
FOR ROOF SLOPES FROM 2:12 TO 4:12, UNDERLAYMENT SHALL BE A MINIMUM OF TWO LAYERS APPLIED AS FOLLOWS:  
1. STARTING AT THE EAVE, A 19 INCH STRIP OF UNDERLAYMENT SHALL BE APPLIED PARALLEL WITH THE EAVE AND FASTENED SUFFICIENTLY TO STAY IN PLACE.  
2. STARTING AT THE EAVE, 36 INCH WIDE STRIPS OF UNDERLAYMENT FELT SHALL BE APPLIED OVERLAPPING SUCCESSIVE SHEETS 19 INCHES AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

FOR ROOF SLOPED 4:12 AND GREATER, UNDERLAYMENT SHALL BE A MINIMUM OF ONE LAYER OF UNDERLAYMENT FELT APPLIED AS FOLLOWS:  
STARTING AT THE EAVE, UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION PARALLEL TO THE EAVE, LAPPED 2 INCHES, AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

BASE AND CAP FLASHINGS:  
BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE OF EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS 0.019 INCH OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 77 LBS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS OF 0.019 INCH.

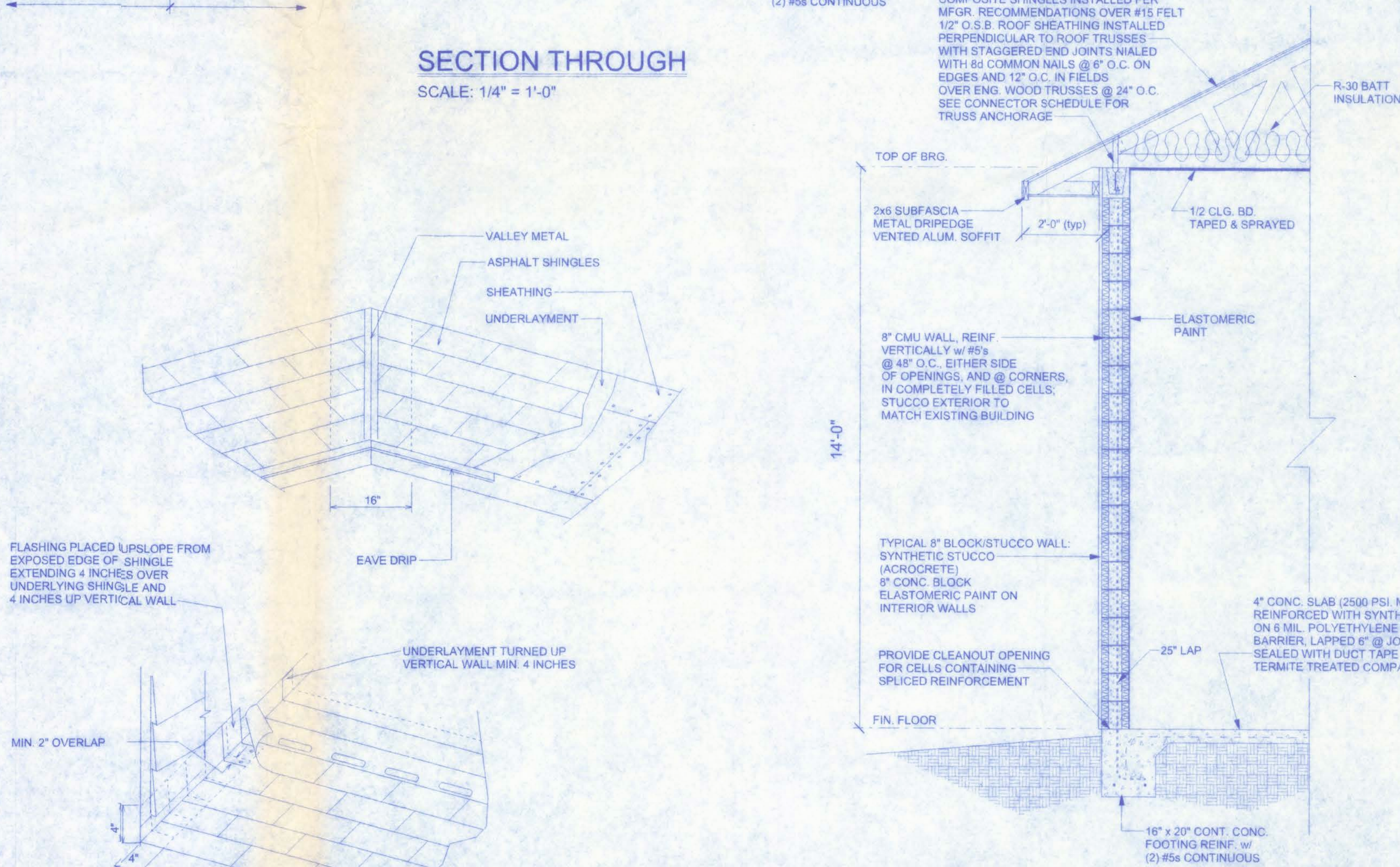
VALLEYS:  
VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING ASPHALT SHINGLES. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED.  
1. FOR OPEN VALLEYS LINED WITH METAL, THE VALLEY LINING SHALL BE AT LEAST 16 INCHES WIDE AND OF ANY OF THE CORROSION RESISTANT METALS IN TABLE 1507.3.9.2.  
2. FOR OPEN VALLEYS, VALLEY LINING OF TWO PLIES OF MINERAL SURFACE ROLL ROOFING SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 18 INCHES AND THE TOP LAYER A MINIMUM OF 36 INCHES WIDE.  
3. FOR CLOSED VALLEYS VALLEY LINING SHALL BE ONE OF THE FOLLOWING:  
1. BOTH TYPES 1 AND 2 ABOVE, COMBINED.  
2. ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 224.  
3. SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 1970.

| MATERIAL         | MINIMUM THICKNESS (in) | GAGE                 | WEIGHT (LB) |
|------------------|------------------------|----------------------|-------------|
| COPPER           |                        |                      | 1           |
| ALUMINUM         | 0.024                  |                      |             |
| STAINLESS STEEL  |                        | 28                   |             |
| GALVANIZED STEEL | 0.0179                 | 26 (ZINC COATED G90) |             |
| ZINC ALLOY LEAD  | 0.027                  |                      | 2 1/2       |
| PAINTED TERNE    |                        |                      | 20          |



SECTION THROUGH

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

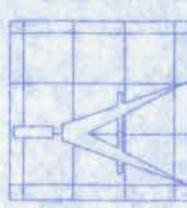


TYPICAL WALL SECTION

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

West Columbia Volunteer  
Fire Department Station 43

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



Freeman  
Design Group

DATE  
7/12/07

DRAWN BY  
J.T.D.

REVISIONS

SHEET A-8

OF 8

PROJECT NO.  
06.C040

CERTIFICATE OF AUTHORIZATION: 00008701

NOTE:

ALL WORK SHALL CONFORM TO AT LEAST THE MINIMUM STANDARD OF THE FOLLOWING CODES:  
2004 FLORIDA BUILDING CODE, BUILDING, w/2006 REVISIONS  
2004 FLORIDA BUILDING CODE, FUEL GAS, w/2006 REVISIONS  
2004 FLORIDA BUILDING CODE, MECHANICAL, w/2006 REVISIONS  
2004 FLORIDA BUILDING CODE, PLUMBING, w/2006 REVISIONS  
2004 FLORIDA FIRE PREVENTION CODE  
2005 NATIONAL ELECTRIC CODE,  
OR LATEST EDITIONS.

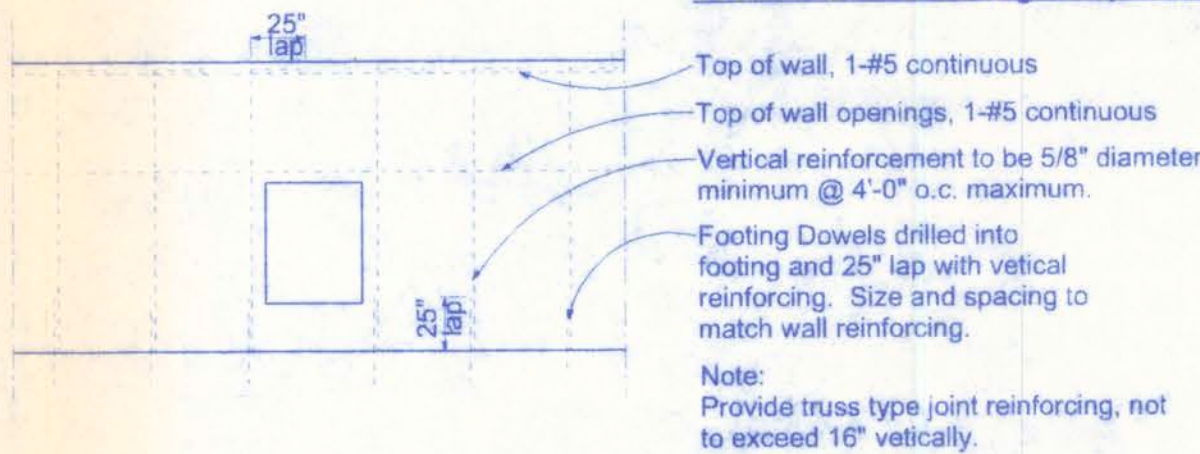
GENERAL NOTES:

- THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ALL CLAIMS, WHETHER FROM PERSONAL INJURY OR PROPERTY DAMAGE, ARISING FROM EVENTS ASSOCIATED WITH THE WORK PERFORMED UNDER THE CONTRACT FOR THIS PROJECT.
- THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL WARRANT ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING THE WORK DATE OF FINAL COMPLETION AND ACCEPTANCE BY THE OWNER. DEFECTS IN MATERIALS, EQUIPMENT, COMPONENTS AND WORKMANSHIP SHALL BE CORRECTED AT NO FURTHER COST TO THE OWNER DURING THE ONE YEAR WARRANTY PERIOD.
- AT THE OWNER'S OPTION, A WARRANTY INSPECTION SHALL BE PERFORMED DURING THE ELEVENTH MONTH FOLLOWING THE COMMENCEMENT OF THE WARRANTY PERIOD, FOR THE PURPOSE OF DETERMINING ANY WARRANTY WORK THAT MAY BE REQUIRED. THE CONTRACTOR SHALL BE PRESENT DURING THIS INSPECTION IF REQUESTED BY THE OWNER.
- THE CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES, TESTS AND THE LIKE THAT MAY BE REQUIRED BY THE VARIOUS AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT BE THEY CITY, COUNTY, STATE OR FEDERAL.
- THE OWNER SHALL FILE A "NOTICE OF COMMENCEMENT" PRIOR TO THE BEGINNING OF THE PROJECT AND THE CONTRACTOR(S) SHALL FILE "NOTICE TO OWNER" AND PROVIDE "RELEASE OF LIEN" FOR ALL PAYMENT REQUESTS PRIOR TO DISBURSEMENT OF ANY FUNDS.
- ANY AND ALL DISPUTES ARISING FROM EVENTS ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT BETWEEN THE OWNER, CONTRACTOR(S) AND SUPPLIERS SHALL BE RESOLVED THROUGH BINDING ARBITRATION.
- ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND LOCAL REGULATIONS, INCLUDING APPLICABLE ENERGY CODES. ALL COMPONENTS OF THE BUILDING SHALL MEET WITH THE MINIMUM ENERGY REQUIREMENTS OF THE BUILDING CODE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IN WRITING PRIOR TO THE COMMENCEMENT OF THE WORK.
- ALL INSULATION SHALL BE LEFT EXPOSED AND ALL LABELS LEFT INTACT ON THE WINDOWS AND DOORS UNTIL INSPECTED BY THE BUILDING OFFICIAL.
- ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.

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 (f'm = 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 @ 18" 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 LATEROALLY 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 IBLF 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.

General Reinforcing Requirements



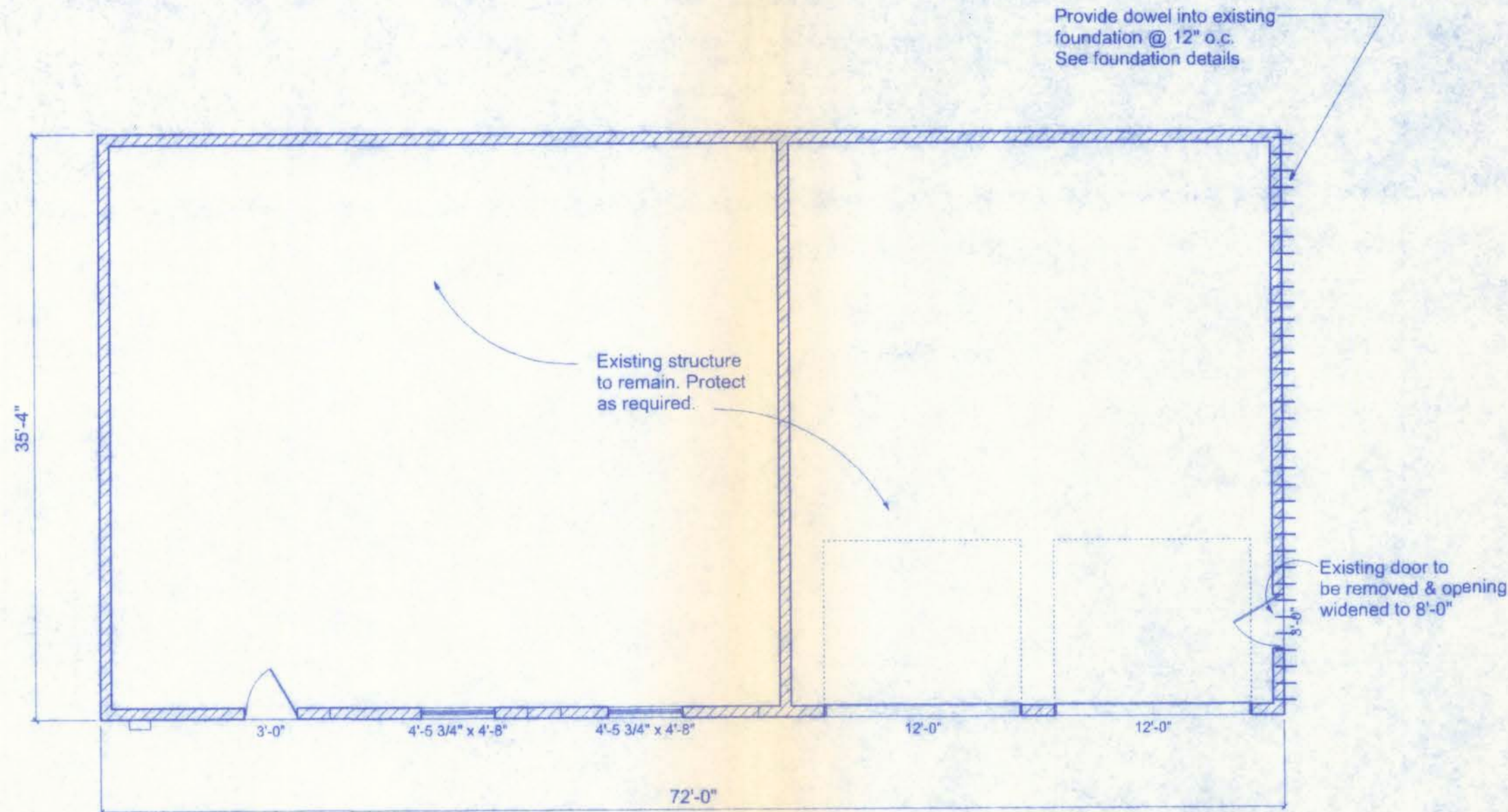
WALL REINFORCING REQUIREMENTS

NTS

NOTE:

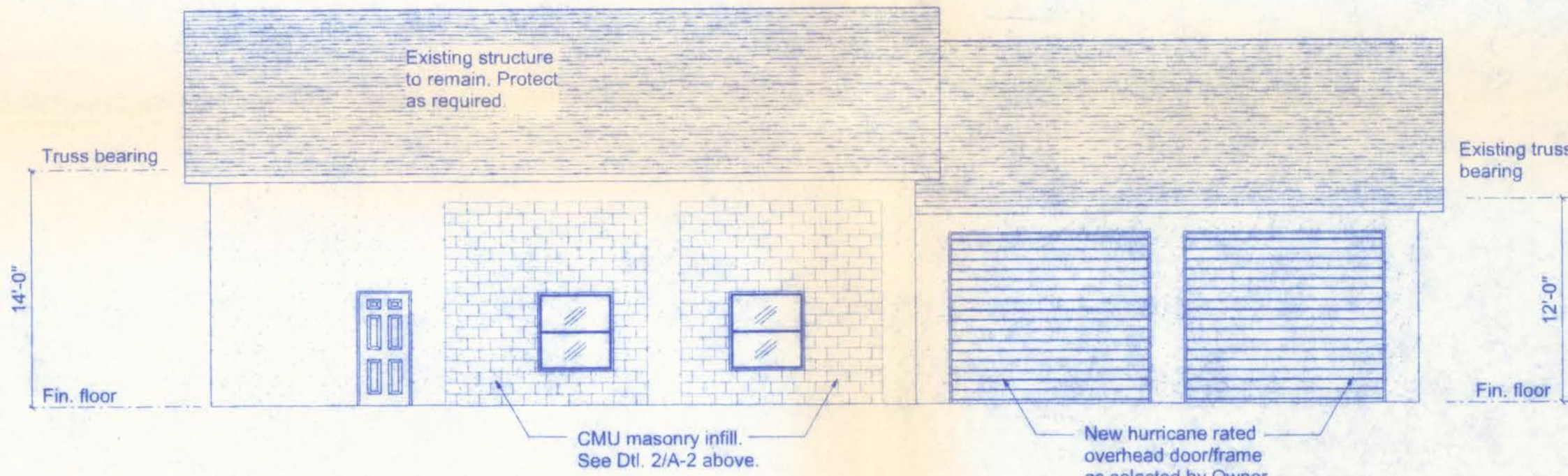
ALL WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609, FLORIDA BUILDING CODE, 2004 EDITION w/2006 REVISIONS, AND IN ACCORDANCE WITH ASCE-7

|                                 |           |                 |
|---------------------------------|-----------|-----------------|
| BASIC WIND SPEED                |           | 110 MPH         |
| IMPORTANCE FACTOR               |           | 1.15            |
| 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        |
| ROOF DEAD LOAD                  |           | 10 psf          |
| ROOF LIVE LOAD                  |           | 20 psf          |
| FLOOR DEAD LOAD                 |           | 20 psf          |
| FLOOR LIVE LOAD                 |           | 40 psf          |



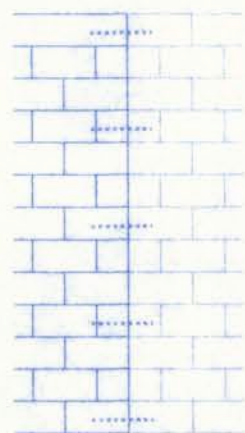
Existing Floor Plan

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



Existing Front Elevation

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

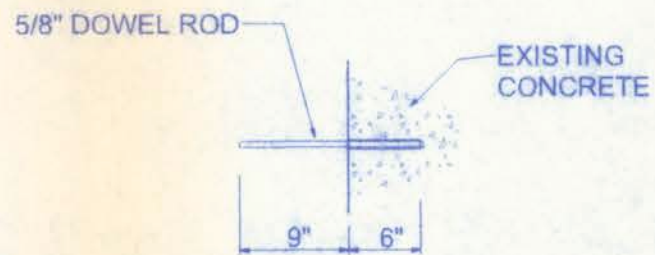


NEW TO EXISTING WALL JOINT DETAIL

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

NOTE:

DRILL HOLE 1/8" LARGER THAN DOWEL DIAMETER AND 1/8" DEEPER THAN EMBEDMENT LENGTH INTO EXISTING CONCRETE AND REMOVE DUST WITH OIL FREE COMPRESSED AIR, SET DOWELS WITH SIMPSON ET22 EPOXY INTO HOLES AND LET REMAIN UNTIL IT SETS.

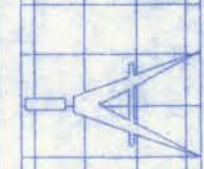


DOWEL DETAIL

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

West Columbia Volunteer  
Fire Department Station 43

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



Freeman  
Design Group, Inc.

DATE  
7/12/07

DRAWN BY  
J.T.D.

REVISIONS

SHEET A-1

OF 8

PROJECT NO.  
06.C040

CERTIFICATE OF AUTHORIZATION: 00038701

Cell H Line  
10/30/07  
P.E. #59001