

AZTEC RV RESORT, INC.

STANDALONE CLUBHOUSE BUILDING

NEW BUILDING DESIGN PACKAGE

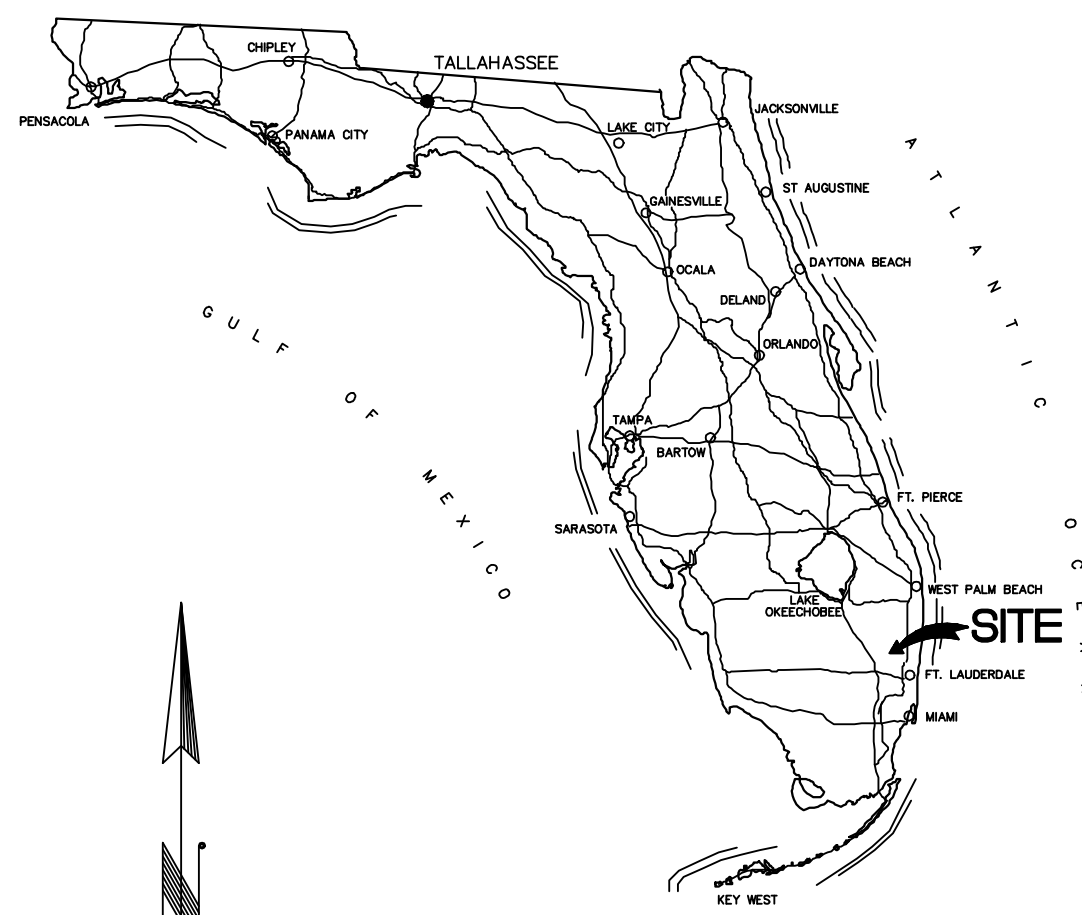


1 SOUTH CORTEZ DRIVE, MARGATE, FL 33063

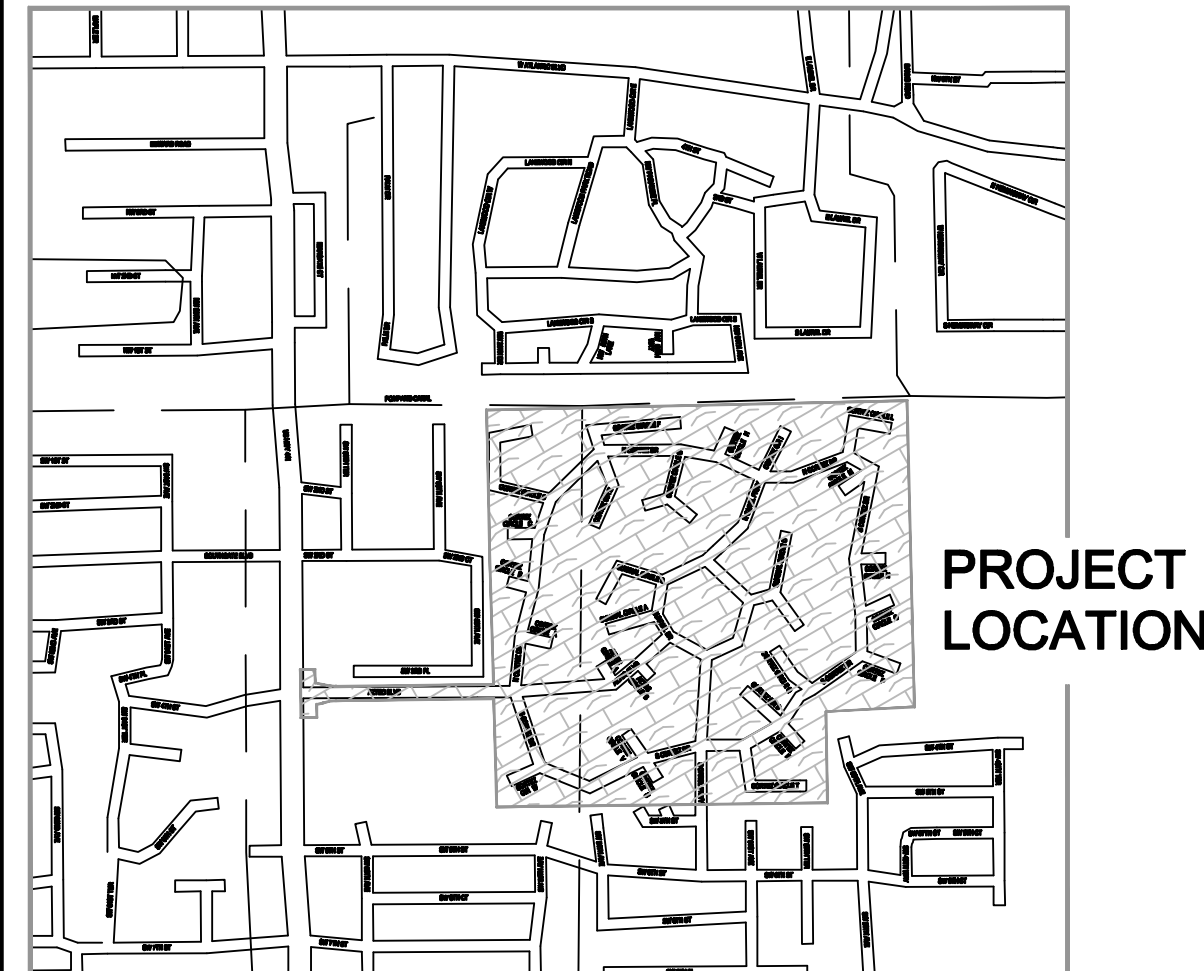


**NOT FOR CONSTRUCTION
FOR BIDDING PURPOSES ONLY**

LOCAL AREA MAP



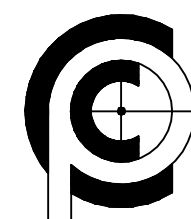
GENERAL LOCATION MAP



PROJECT
LOCATION

STATE OF FLORIDA
BROWARD COUNTY
CITY OF MARGATE
S 06, T 49N, R 42E

PCN 4942 - 06 - 01 - 001



CARNAHAN · PROCTOR · CROSS, INC.

CONSULTING ENGINEERS · SURVEYORS · PLANNERS
6101 W. ATLANTIC BLVD., SUITE # 201, MARGATE, FLORIDA 33063
PHONE: (954) 972-3959 FAX: (954) 972-4178

MARGATE OFFICE

6101 W. ATLANTIC, SUITE # 201
MARGATE, FLORIDA 33633
OFFICE : (954) 972 - 3959
FAX : (954) 478 - 4178

PORT ST. LUCIE OFFICE

1858 SE PORT ST. LUCIE BLVD.
PORT ST. LUCIE, FL 34952-5545
OFFICE : (772) 237 - 8478
FAX : (772) 237 - 8475
CPC AUTH. NO. 00002936

MERRITT ISLAND OFFICE

3525 N. COURTENAY PARKWAY
MERRITT ISLAND, FLORIDA 32953
OFFICE : (321) 453 - 5820
FAX : (321) 453 - 5866

ORLANDO OFFICE

14 E. WASHINGTON AVE., STE. #500
ORLANDO, FL 33801
OFFICE : (407) 843 - 9863
FAX : (407) 367 - 2106

CPC FILE NO. 090404
DESIGN OFFICE : MARGATE

"DRAWING SET" TABLE OF CONTENTS

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REVIEWING AGENCY'S APPROVAL STAMPS

PERMIT SET OF PLANS -- FOR PERMIT REVIEW ONLY
THESE DRAWINGS ARE SUBMITTED FOR CITY'S STAFF REVIEW. IT IS UNDERSTOOD THAT THE PERMIT WILL NOT OFFICIALLY BE ISSUED UNTIL THE LAND USE CHANGE IS APPROVED. IF THESE PLANS ARE USED FOR BIDDING, NOTE THAT SUBSEQUENT REVISIONS MAY BE MADE TO THE PLANS IN ORDER TO GET A BUILDING PERMIT.

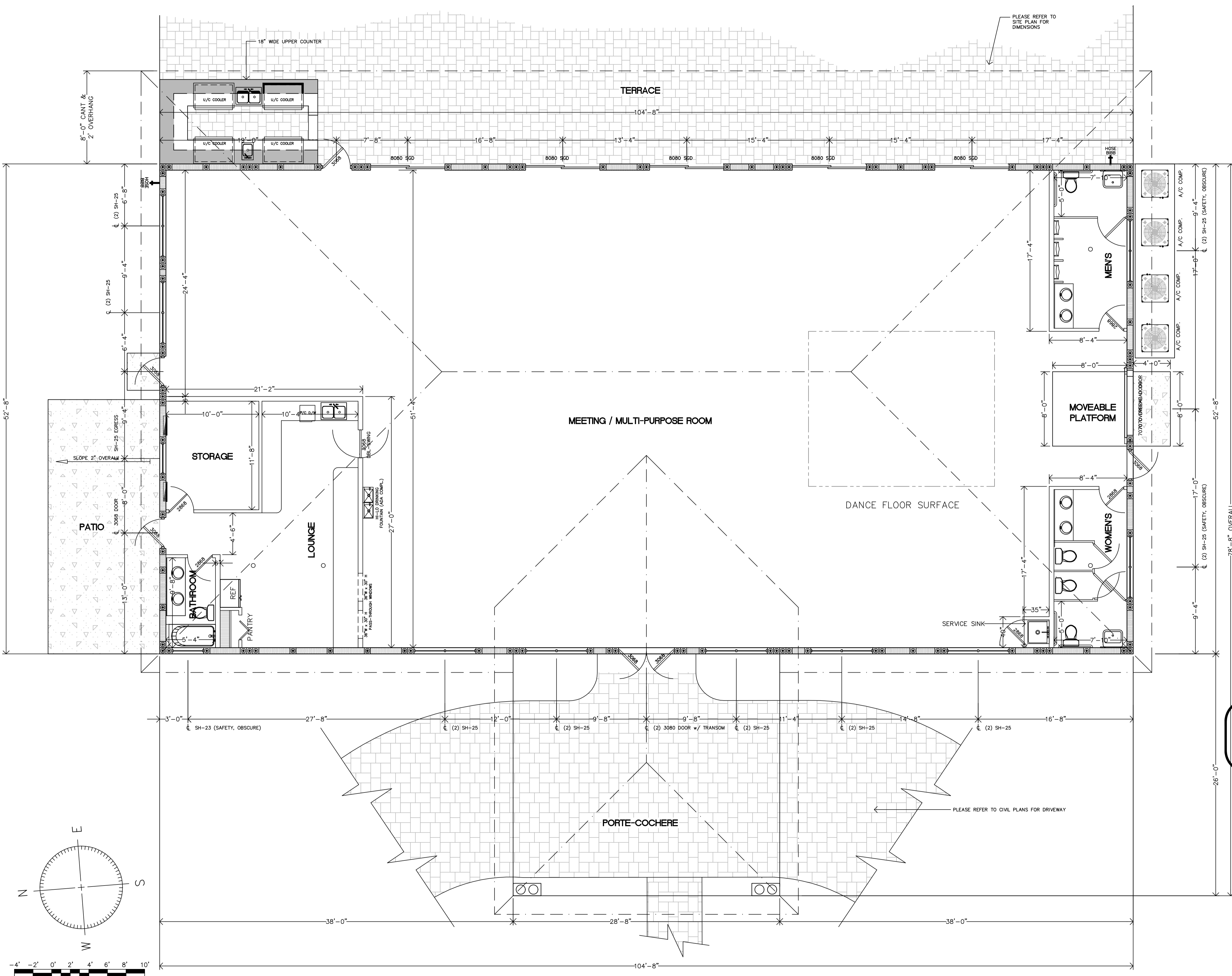
| REVISION BLOCK | | | |
|----------------|------|-------------|----------|
| REVISION | DATE | AGENCY NAME | COMMENTS |
| 1 | | | |
| 2 | | | |
| 3 | | | |
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| SUBMITTAL TYPE | |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | 30% REVIEW DRAWINGS 17 - FEBRUARY - 2010 DATE |
| <input checked="" type="checkbox"/> | 60% REVIEW DRAWINGS 22 - FEBRUARY - 2010 DATE |
| <input checked="" type="checkbox"/> | 90% REVIEW DRAWINGS 25 - MAY - 2010 DATE |
| <input checked="" type="checkbox"/> | PERMIT DRAWINGS 20 - SEPTEMBER - 2010 DATE |
| <input checked="" type="checkbox"/> | BIDDING ONLY DRAWINGS 11 - JUNE - 2010 DATE |
| <input type="checkbox"/> | CONSTRUCTION DRAWINGS DATE |

COVER SHEET
SHEET 1 OF 15

20-SEPT-2010
STEPHEN A. GAYDOS, JR.
PE - GC - PCC - CBI - SSSI
FLORIDA PE - 038464

| REVISION | |
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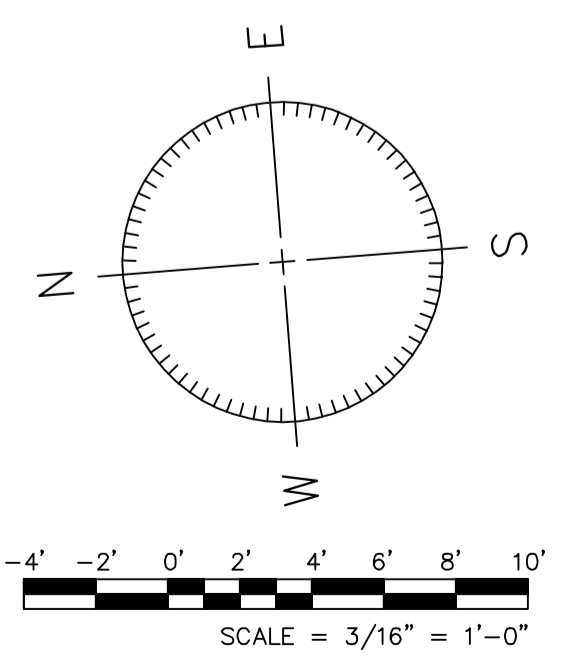


- DESIGN CONSIDERATIONS :**
- NUMBER OF PEOPLE SERVED BY THE RESTROOMS :
PER FBC-07, 2009 SUPPLEMENTS, A CLUBHOUSE IS DEFINED AS AN ASSEMBLY GROUP A-2 NON-FIXED SEATING w/ TABLES IS 1 SEAT / 15 SQ. FT. OF FLOOR SPACE
SEATING AREA = 5,188 SQ. FT. TOTAL ==> 5512 SQ.FT. - 2(162 SQ.FT.) = 5,188 SQ.FT.
 - MAXIMUM SEATING CAPACITY =
5,188 SQ. FT. / 15 SQ. FT./PERSON = 345.87 PEOPLE (USE 346 PEOPLE FOR THE DESIGN)
FEMALE SIDE : 50% OF 346 PEOPLE = 173 WOMEN
MALE SIDE : 50% OF 346 PEOPLE = 173 MEN
 - WATER USE DESIGN REQUIREMENTS :
BASED ON FBC-07, PLUMBING CODE, SECTION 403, TABLE 403.1
1 WATER CLOSET PER 150 MALES -- 50% OF MALE W/C MORE THAN 1 CAN BE URINALS
1 WATERCLOSET PER 65 FEMALES
- MEN'S FIXTURES**
173 MEN / 150 MEN PER WATERCLOSET = 1.15 W/C (USE 2 FOR DESIGN)
- WOMEN'S FIXTURES**
173 WOMEN / 65 WOMEN PER WATERCLOSET = 2.66 W/C (USE 3 FOR DESIGN)
PROVIDED = 1 W/C & 3 URINALS FOR MALES & 3 W/C FOR FEMALES
 - PER SAME TABLE IN NOTE #3 ABOVE, REQUIRED TO PROVIDE 1 LAVATORY PER 200 PEOPLE, SO 1 LAV. PER RESTROOM REQ'D -- 2 EACH RESTROOM PROVIDED (NOT COUNTING ADA STALL).
 - WATER CLOSET STALLS DESIGNED BASED ON REQUIREMENTS OF FBC-07, PLUMBING CODE, SECTION 420 & FBC-07, BUILDING CODE, CHAPTER 11 (ADA REQUIREMENTS)
 - URINALS DESIGNED BASED ON REQUIREMENTS OF FBC-07, PLUMBING CODE, SECTION 419
 - WIND LOADS DESIGNED BASED ON FBC-07, CHAPTER 16, SECTION 1609, USING ASCE 7-05, FOR WIND SPEEDS OF 140 MPH, EXPOSURE "C", WITH AN IMPORTANCE FACTOR OF 1.0.

- BATHROOM WALL & FLOOR COVERINGS :**
- > FLOORS TO BE SMOOTH, HARD, NONABSORBENT SURFACE THAT EXTENDS A MINIMUM OF 6" UPWARDS ONTO THE WALLS
 - > WALLS WITHIN 2 FEET OF URINALS & WATER CLOSETS SHALL BE SMOOTH, HARD, NONABSORBENT SURFACE TO A HEIGHT OF 4 FEET A.F.F., AND SHALL NOT BE ADVERSELY AFFECTED BY MOISTURE.
 - > ACCESSORIES (GRAB BARS, TOWEL BARS, PAPER DISPENSERS, AND SOAP DISPENSERS / DISHES) SHALL BE INSTALLED & SEALED TO PROTECT STRUCTURAL MEMBERS FROM MOISTURE.

**NOT FOR CONSTRUCTION
FOR BIDDING PURPOSES ONLY**

| BUILDING AREA CALCULATION | |
|---|----------------------|
| AREA DESCRIPTION | AREA |
| MAIN ASSEMBLY AREA | 4,595 SQ. FT. |
| STORAGE ROOM | 241 SQ. FT. |
| WOMEN'S RESTROOM | 162 SQ. FT. |
| MEN'S RESTROOM | 162 SQ. FT. |
| PRIVATE LOUNGE AREA | 352 SQ. FT. |
| TOTAL AIR CONDITIONED AREA (GROSS FLOOR AREA) | 5,512 SQ. FT. |
| PORTE-COCHERE | 746 SQ. FT. |
| REAR OVERHANG (8' CANTILEVER w/ 2' OVERHANG) | 1,047 SQ. FT. |
| TOTAL FOOTPRINT AREA OF BUILDING | 7,305 SQ. FT. |

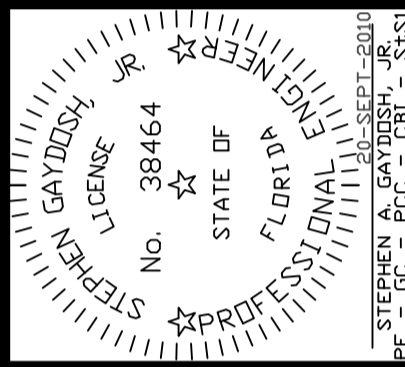


FLOOR PLAN
PROPOSED FLOOR PLAN LAYOUT SCALE : 3/16" = 1'-0"

CARMAHAN-PROCTOR-CROSS, INC.
CONSULTING ENGINEERS, ARCHITECTS, PLANNERS
14 E. WASHINGTON AVE., SUITE #200
ORLANDO, FL 32801
TEL : (407) 397-2700
FAX : (407) 397-2700

MARGATE OFFICE
801 W. ATLANTIC, SUITE # 201
MARGATE, FLORIDA, 32063
TEL : (904) 278-4779
FAX : (904) 278-4779

PORT ST. LUCE OFFICE
1848 SE PORT ST. LUCE BLVD.
PORT ST. LUCE, FL 34952-5545
TEL : (888) 237-8175
FAX : (888) 237-8175



CLUBHOUSE FACILITY :

FLOOR PLAN

AZTEC RESORT

MARGATE, FLORIDA

DRAWN BY :
B. TUCKER
CHECKED BY :
S. GAYDOSH
DATE :
FEBRUARY - 2010
SCALE :
3/16" = 1'-0" U.N.O.
JOB NUMBER(S) :
090404
DRAWING

◆ RIDGE OF ROOF
 EL. 23'-4" AFF

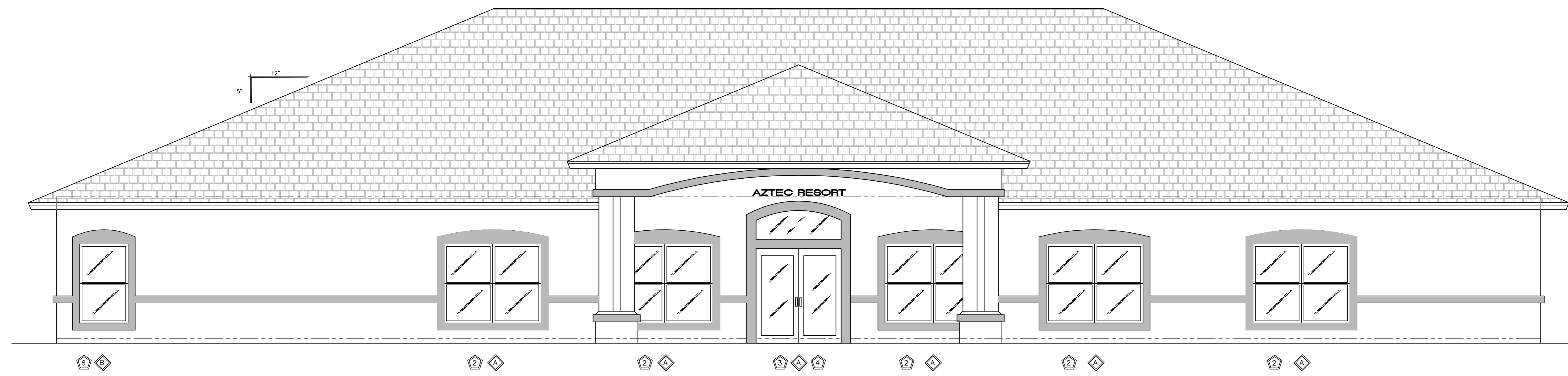
 ◆ TOP OF ENTRY BEAM
 EL. 13'-4" AFF

 ◆ TOP OF MAIN BLDG BEAM
 EL. 10'-0" AFF

 ◆ TOP OF WINDOWS & DOORS
 EL. 6'-8" AFF

 ◆ TOP OF 6" STUCCO BAND
 EL. 3'-0" AFF

 ◆ FIN. FLOOR ELEV.
 EL. 0'-0"



FRONT ELEVATION

VIEWED FROM ROADWAY SCALE : 1/4" = 1'-0"



REAR ELEVATION

VIEWED FROM BACK OF BUILDING SCALE : 1/4" = 1'-0"

DESIGN DATA FOR WIND LOADS :

WIND SPEED IS BASED ON CHAPTER 16 OF FBC-07, USING ASCE 7-05
 140 MPH - 3 SECOND GUST WIND SPEED FOR EXPOSURE "c"
 IMPORTANCE USE FACTOR = 1.00, Kd = 0.85

PRESSURES NOTED HEREIN ARE GIVEN IN PSF :

| | | |
|-----|--|------------|
| ◆ A | INTERIOR ZONE PRESSURES ON WINDOWS/DOORS = | + 45.5 PSF |
| ◆ A | INTERIOR ZONE PRESSURES ON WINDOWS/DOORS = | - 49.3 PSF |
| ◆ B | END ZONE PRESSURES ON WINDOWS/DOORS = | + 45.5 PSF |
| ◆ B | END ZONE PRESSURES ON WINDOWS/DOORS = | - 60.9 PSF |
| ◆ C | END ZONE PRESSURES ON GARAGE DOOR = | + 39.8 PSF |
| ◆ C | END ZONE PRESSURES ON GARAGE DOOR = | - 45.1 PSF |

FOR THIS BUILDING, THE MEAN ROOF HEIGHT IS 16.625' A.F.F.
 ALL OPENINGS TO HAVE IMPACT GLASS.

END ZONE CALCULATION :

SMALLEST OF :

- 10% OF LEAST HOR. DIM. = (0.10) (52.67') = 5.27'
- 40% OF EAVE HEIGHT = (0.40) (10.00') = 4.00'

BUT NOT LESS THAN :

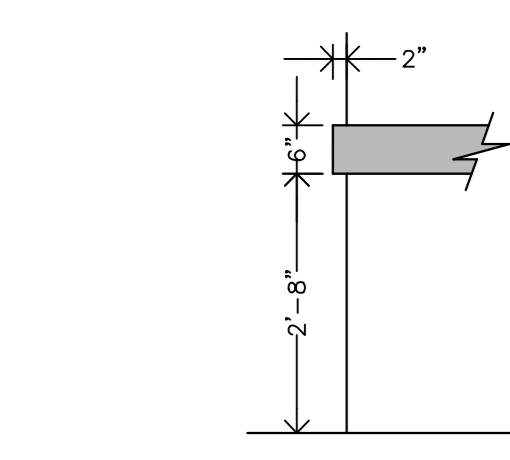
- 4% OF LARGEST HOR. DIST. = (0.04) (104.67') = 4.19'
- 3' MINIMUM
- 4.19' GOVERNS -- USE 6.00' FOR DESIGN

**NOT FOR CONSTRUCTION
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DOOR AND WINDOW SCHEDULE

| MARK NUMBER | OPENING DESIGNATION & DESCRIPTION | MANUFACTURER NAME & MODEL NUMBER | WIND PRESSURES ALLOW. POS. ALLOW. NEG. | WIND PRESSURES ACT. POS. ACT. NEG. | MIAMI-DADE N.O.A. & EXP. DATE. |
|-------------|-----------------------------------|--|--|------------------------------------|--------------------------------|
| ① | (2) SH-25 WDW. | ES WINDOWS, LLC SERIES 1000 AL. S/H | +70 PSF -80 PSF | +45.5 PSF -60.9 PSF | 08 - 0527.12 06-NOV-2013 |
| ② | (2) SH-25 WDW. | ES WINDOWS, LLC SERIES 1000 AL. S/H | +70 PSF -80 PSF | +45.4 PSF -49.3 PSF | 08 - 0527.12 06-NOV-2013 |
| ③ | 6040 FIXED GLASS | ES WINDOWS, LLC SERIES 1500 AL. FIX/GL | +68.1 PSF -68.1 PSF | +45.4 PSF -49.3 PSF | 08 - 0417.06 06-NOV-2013 |
| ④ | (2) 3068 DOORS | ES WINDOWS, LLC SERIES 3000 AL. FR/DRS | +70 PSF -80 PSF | +45.4 PSF -49.3 PSF | 09 - 1217.03 18-SEPT-2014 |
| ⑤ | 3068 DOOR | ES WINDOWS, LLC SERIES 3000 AL. FR/DRS | +70 PSF -80 PSF | +45.4 PSF -49.3 PSF | 09 - 1217.03 18-SEPT-2014 |
| ⑥ | SH-25 WDW. | ES WINDOWS, LLC SERIES 1000 AL. S/H | +70 PSF -80 PSF | +45.4 PSF -49.3 PSF | 08 - 0527.12 06-NOV-2013 |
| ⑦ | 8080 SGD | ES WINDOWS, LLC SERIES 4000 AL. SGD | +70 PSF -80 PSF | +45.4 PSF -49.3 PSF | 09 - 0210.07 18-MARCH-2014 |
| ⑧ | 4040 FIXED GLASS | ES WINDOWS, LLC SERIES 1500 AL. FIX/GL | +70 PSF -90 PSF | +45.4 PSF -49.3 PSF | 08 - 0417.06 06-NOV-2013 |
| ⑨ | --- | --- | --- | --- | --- |

DOORS # 4 AND #6 SHALL HAVE PANIC HARDWARE ON THE INTERIOR FACE FOR EMERGENCY EGRESS.
 ALL GLASS TO BE IMPACT GLASS, OR PROTECTED WITH SHUTTER SYSTEM.



STUCCO BANDS
 TYPICAL SIZE & LOCATIONS SCALE : 1/2" = 1'-0"

| REVISION | BY |
|----------|----|
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CARNAHAN-PROCTOR-CROSS, INC.
 CONSULTING ENGINEERS ARCHITECTS PLANNERS
 14 E. WASHINGTON AVE. STE. #200
 ORLANDO, FL 32801
 TEL: (407) 397-3700
 FAX: (407) 397-3700
 WWW.CPCORP.COM

MARGATE OFFICE
 801 W. ATLANTIC, SUITE # 201
 MARGATE, FLORIDA 32083
 TEL: (954) 778-4778
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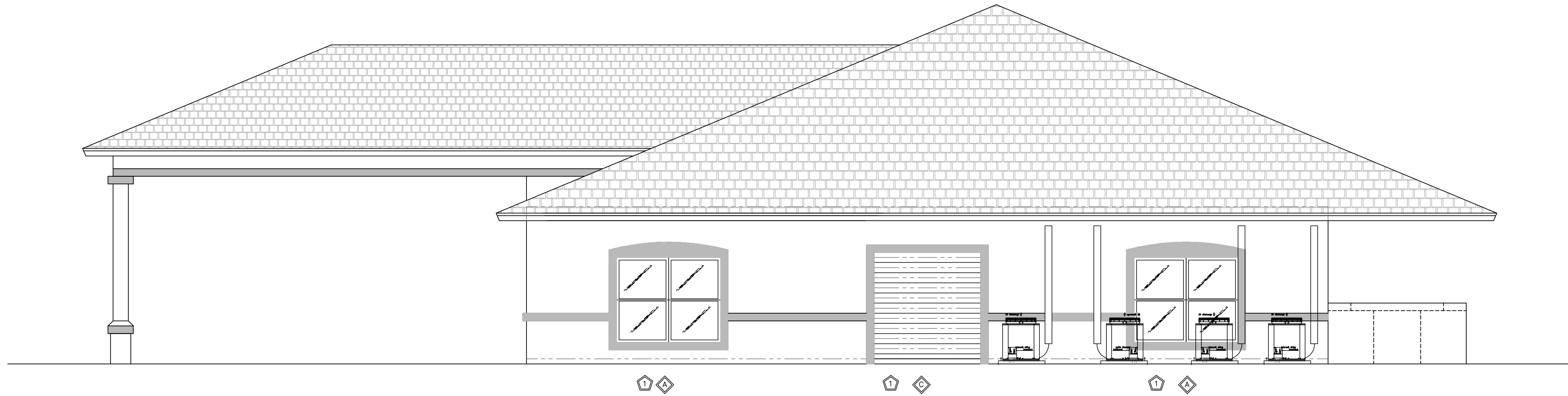
MERRITT ISLAND OFFICE
 3025 N. COURTESY PARKWAY
 MERRITT ISLAND, FLORIDA 32953
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ORLANDO OFFICE
 14 E. WASHINGTON AVE. STE. #200
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STEPHEN R. GAYDOSH, P.E.
 LICENSE NO. 38464
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 EXPIRES AUG-2010

CLUBHOUSE FACILITY :
FRONT AND REAR ELEVATION
AZTEC RESORT
MARGATE, FLORIDA

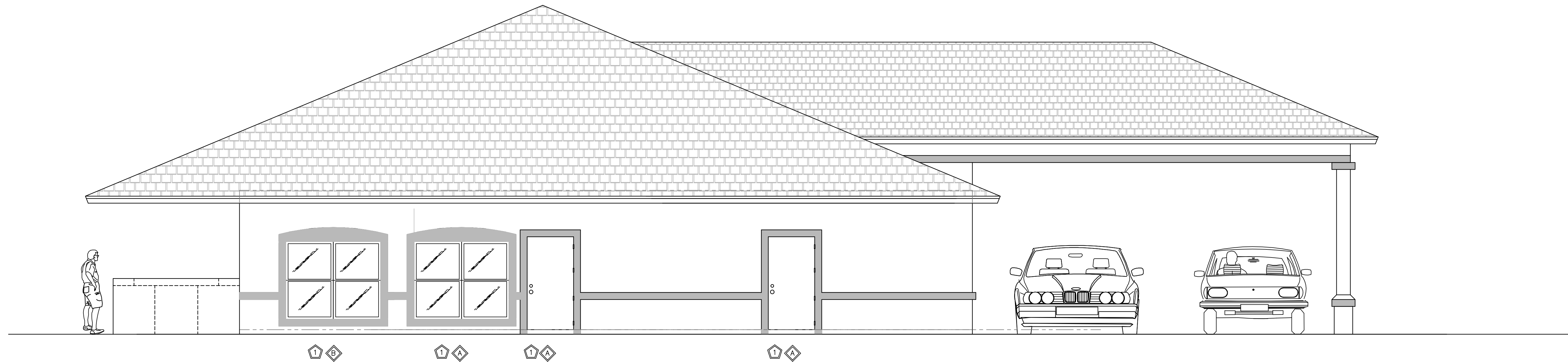
DRAWN BY :
 B. TUCKER
 CHECKED BY :
 S. GAYDOSH
 DATE :
 FEBRUARY - 2010
 SCALE :
 1/4" = 1'-0" U.N.O.
 JDB NUMBER(S) :
 090404
 DRAWING
S-2.2
 SHEET
 3 OF 15 SHEETS



RIGHT SIDE ELEVATION

VIEWED FROM RIGHT SIDE OF BUILDING

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



LEFT SIDE ELEVATION

VIEWED FROM LEFT SIDE OF BUILDING

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

| DESIGN DATA FOR WIND LOADS : | |
|--|------------|
| WIND SPEED IS BASED ON CHAPTER 16 OF FBC-07, USING ASCE 7-05 140 MPH - 3 SECOND GUST WIND SPEED FOR EXPOSURE "C" IMPORTANCE USE FACTOR = 1.00, Kd = 0.85 | |
| PRESSURES NOTED HEREIN ARE GIVEN IN PSF : | |
| ▲ INTERIOR ZONE PRESSURES ON WINDOWS/DOORS = | + 45.5 PSF |
| ▲ INTERIOR ZONE PRESSURES ON WINDOWS/DOORS = | - 49.3 PSF |
| ◆ END ZONE PRESSURES ON WINDOWS/DOORS = | + 45.5 PSF |
| ◆ END ZONE PRESSURES ON WINDOWS/DOORS = | - 60.9 PSF |
| ◇ END ZONE PRESSURES ON GARAGE DOOR = | + 39.8 PSF |
| ◇ END ZONE PRESSURES ON GARAGE DOOR = | - 45.1 PSF |

FOR THIS BUILDING, THE MEAN ROOF HEIGHT IS 16.625' A.F.F.
ALL OPENINGS TO HAVE IMPACT GLASS.

END ZONE CALCULATION :

SMALLEST OF :
10% OF LEAST HOR. DIM. = (0.10) (52.67') = 5.27'
40% OF EAVE HEIGHT = (0.40) (10.00') = 4.00'
BUT NOT LESS THAN :
4% OF LARGEST HOR. DIST. = (0.04) (104.67') = 4.19'
3' MINIMUM
4.19' GOVERNS -- USE 6.00' FOR DESIGN

| DOOR AND WINDOW SCHEDULE | | | | | | | |
|--------------------------|--|---|----------------|-------------|-------------------------------|-----------|-------------------------------|
| MARK NUMBER | OPENING DESIGNATION & DESCRIPTION | MANUFACTURER NAME & MODEL NUMBER | WIND PRESSURES | | MIAMI-DADE N.O.A. & EXP. DATE | | |
| | | | ALLOW. POS. | ALLOW. NEG. | ACT. POS. | ACT. NEG. | |
| 1 | (2) SH-25 WDW. | ES WINDOWS, LLC SERIES 1000 AL. S/H | +70 PSF | -80 PSF | +45.5 PSF | -60.9 PSF | 08 - 0527.12 06-NOV-2013 |
| 2 | (2) SH-25 WDW. | ES WINDOWS, LLC SERIES 1000 AL. S/H | +70 PSF | -80 PSF | +45.4 PSF | -49.3 PSF | 08 - 0527.12 06-NOV-2013 |
| 3 | 6040 FIXED GLASS GLASS TYPE "A" | ES WINDOWS, LLC SERIES 1500 AL. FIX/GL | +68.1 PSF | -68.1 PSF | +45.4 PSF | -49.3 PSF | 08 - 0417.06 06-NOV-2013 |
| 4 | (2) 3068 DOORS | ES WINDOWS, LLC SERIES 3000 AL. FR/DRS | +70 PSF | -80 PSF | +45.4 PSF | -49.3 PSF | 09 - 1217.03 16-SEPT-2014 |
| 5 | 3068 DOOR | ES WINDOWS, LLC SERIES 3000 AL. FR/DRS | +70 PSF | -80 PSF | +45.4 PSF | -49.3 PSF | 09 - 1217.03 16-SEPT-2014 |
| 6 | SH-25 WDW. | ES WINDOWS, LLC SERIES 1000 AL. S/H | +70 PSF | -80 PSF | +45.4 PSF | -49.3 PSF | 08 - 0527.12 06-NOV-2013 |
| 7 | 8080 SGD | ES WINDOWS, LLC SERIES 4000 AL. SGD | +70 PSF | -80 PSF | +45.4 PSF | -49.3 PSF | 09 - 0210.07 16-MARCH-2014 |
| 8 | 4040 FIXED GLASS "B" or "B1" GLASS TYPE | ES WINDOWS, LLC SERIES 1500 AL. FIX/GL | +70 PSF | -90 PSF | +45.4 PSF | -49.3 PSF | 08 - 0417.06 06-NOV-2013 |
| 9 | --- | --- | --- | --- | --- | --- | --- |

DOORS # 4 AND #6 SHALL HAVE PANIC HARDWARE ON THE INTERIOR FACE FOR EMERGENCY EGRESS.
ALL GLASS TO BE IMPACT GLASS, OR PROTECTED WITH SHUTTER SYSTEM.

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CONSULTING ENGINEERS ARCHITECTS PLANNERS

MARGATE OFFICE
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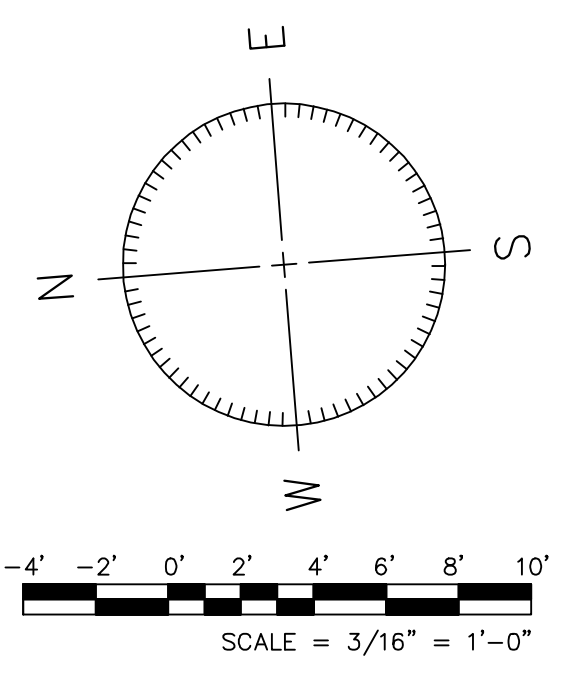
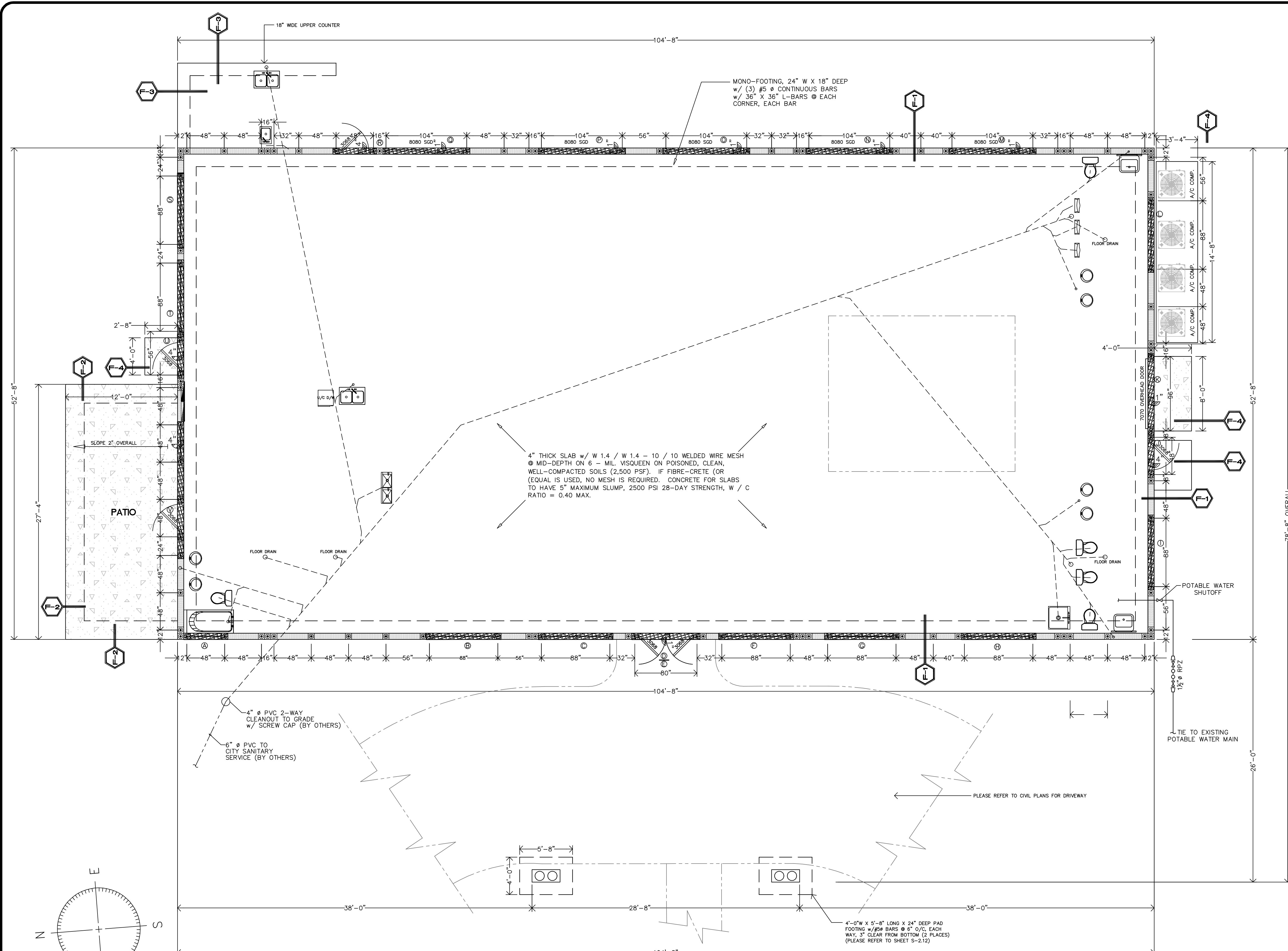
MERRITT ISLAND OFFICE
14 E. WASHINGTON AVE., STE. #100
MERRITT ISLAND, FLORIDA 32953
PHONE : (321) 451-4500
FAX : (321) 451-4500

ORLANDO OFFICE
14 E. WASHINGTON AVE., STE. #100
ORLANDO, FLORIDA 32801
PHONE : (407) 397-2000
FAX : (407) 397-2000

Professional Engineer
No. 38464
STATE OF FLORIDA
STEPHEN R. GAYDOSH, P.E.
PC - FLORIDA PE - 38464

CLUBHOUSE FACILITY :
SIDE ELEVATIONS
AZTEC RESORT
MARGATE, FLORIDA

DRAWN BY :
B. TUCKER
CHECKED BY :
S. GAYDOSH
DATE :
FEBRUARY - 2010
SCALE :
1/4" = 1'-0" U.N.O.
JOB NUMBER(S) :
090404
DRAWING
S-2.3
SHEET
4 OF 15 SHEETS

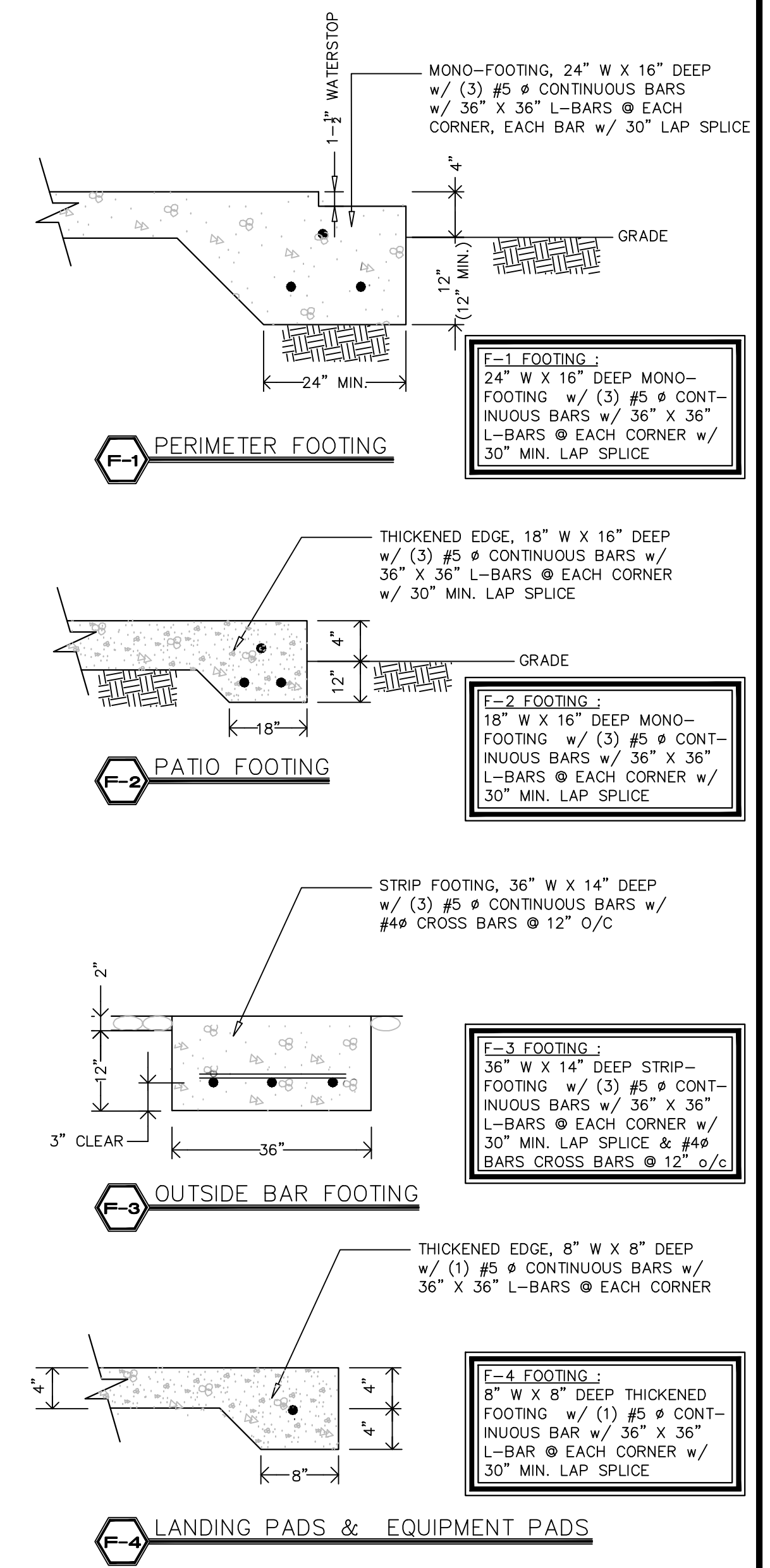


FOUNDATION PLAN
 LAYOUT OF LINTELS & FILLED CELLS
 SCALE : 3/16" = 1'-0"
 PLEASE REFER TO SHEET S-2.5 FOR LINTEL SCHEDULE & WALL SECTIONS.

**NOT FOR CONSTRUCTION
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FOUNDATION NOTES

- THE SOILS SHALL BE COMPACTED TO 2,500 PSF (MINIMUM), AND SHALL BE POISONED FOR TERMITES IN ACCORDANCE W/ APPLICABLE CODES & ORDINANCES. CERTIFICATION OF COMPACTIONS & POISONING SHALL BE PROVIDED BY THE RESPECTIVE COMPANIES.
- SOIL BORINGS, TO THE DEPTH & QUANTITY AS DIRECTED BY THE FLORIDA BUILDING CODE, 2007, & AS AMENDED BY LOCAL CODES & ORDINANCES, SHALL BE PERFORMED BY A QUALIFIED COMPANY. THE REPORT SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER OR PROFESSIONAL GEOLOGIST & SUBMITTED TO THE CONTRACTOR PRIOR TO FOOTING INSPECTIONS.
- THE AREA WHICH SHALL HAVE HABITABLE (NOW OR FUTURE) LIVING SPACE SHALL BE PROTECTED BY THE USE OF 6-MIL VAPOR BARRIER OR WATER-PROOFING AGENTS IN THE CONCRETE. COVERED PORCHES / ENTRIES SHALL HAVE VAPOR - BARRIER.
- THE MINIMUM COVER FOR REINFORCING SHALL BE :
 --- SLABS ON VAPOR BARRIER --- 3/4"
 --- BEAMS AND COLUMNS --- 1 1/2"
 --- FORMED CONCRETE BELOW GRADE --- 2"
 --- UNFORMED CONCRETE BELOW GRADE --- 3"
- MAIN REINFORCING STEEL SHALL BE GRADE 60 (Fy = 60,000 PSI), BASED ON ASTM A-615. TIES & HOOPS SHALL BE GRADE 40 (Fy = 40,000 PSI).
- CONCRETE SHALL BE 2,500 PSI CONCRETE W/ WATER/CEMENT RATIO NOT TO EXCEED 0.45 (UNLESS AREA IS SUBJECT TO SALT SPRAY, WHICH SHALL BE REDUCED TO 0.40 MAXIMUM). SLUMP, IN ALL CASES, SHALL NOT EXCEED 5". NO WATER MAY BE ADDED AT THE SITE.
- WELDED WIRE MESH (W.W.M.) SHALL BE W1.4XW1.4 - / 10-10 PLACED AT MID-DEPTH OF ALL SLABS. AT ALL MONOFOOTINGS, THE W.W.M. SHALL BE DOUBLED FOR A MINIMUM OF 2' - 6" BEYOND THE END OF THE FOOTING. IF FIBRE-CRETE (OR FIBRE-CON OR EQUAL) CONCRETE IS USED, THE DOUBLE LAYER OF MESH MAY BE ELIMINATED AS WELL AS THE W.W.M.
- ALL CONCRETE MIXING & BATCHING SHALL BE IN ACCORDANCE W/ ASTM C94. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE W/ ACI 318 AND ACI 301. ALL CONCRETE MASONRY UNIT (CMU) WORK SHALL COMPLY W/ ACI 531 - 79 (REVISED 1983). CONCRETE FOR COLUMNS, BEAMS, & GROUTED CELLS SHALL BE 3,000 PSI (MINIMUM), & CONCRETE FOR FOOTINGS & SLABS SHALL BE 2,500 PSI (MINIMUM).
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS & CONDITIONS AT SITE PRIOR TO STARTING ANY WORK. THE ENGINEER OF RECORD MUST BE NOTIFIED IN WRITING OF ANY DISCREPANCIES IMMEDIATELY OR THE CONTRACTOR SHALL ACCEPT ALL RESPONSIBILITY FOR ANY ERRORS & OMISSIONS. **DO NOT SCALE DRAWINGS.**
- THESE PLANS, AS DRAWN & NOTED, COMPLY W/ THE "2007 ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION". THE CONTRACTOR IS RESPONSIBLE FOR BEING FAMILIAR W/ THE CODE IN ITS ENTIRETY & CONSTRUCT IN ACCORDANCE W/ ALL PROVISIONS OF THE CODE WHICH MAY NOT BE SPECIFICALLY ADDRESSED ON THE PLANS AND IN THE NOTES.
- REINFORCING SHALL BE LAP SPLICED A MINIMUM OF 24" FOR #4 BARS AND A MINIMUM OF 30" FOR #5 BARS.
- DESIGN IS BASED ON FLORIDA BUILDING CODE, 2007 (FBC-07) W/ 2009 AMENDMENTS.



TYPICAL NEW FOOTINGS
 INTERIOR & PERIMETER FOOTINGS SCALE : N. T. S.

| REVISION | BY |
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CARMAN-PROCTOR-CROSS, INC.
 CONSULTING ENGINEERS, ARCHITECTS, PLANNERS
MERRITT ISLAND OFFICE
 3025 N. COASTWAY PARKWAY
 MERRITT ISLAND, FLORIDA, 32953
 PHONE : (321) 451-5860
 FAX : (321) 451-5860
ORLANDO OFFICE
 14 E. WASHINGTON AVE., STE. #100
 ORLANDO, FL, 32801
 PHONE : (407) 397-2100
 FAX : (407) 397-2100

MARGATE OFFICE
 801 W. ATLANTIC, SUITE # 201
 MARGATE, FLORIDA, 32083
 PHONE : (904) 778-4949
 FAX : (904) 778-4778
PORT ST. LUCE OFFICE
 1408 SE PORT ST. LUCE BLVD.
 PORT ST. LUCE, FL, 38652-5545
 PHONE : (772) 237-9475
 FAX : (772) 237-9475

STEPHEN S. GAYDOSH, P.E.
 LICENSE NO. 38464
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 CIVIL ENGINEERING
 EXPIRES 12/31/2010

**CLUBHOUSE FACILITY :
 FOUNDATION PLAN
 AZTEC RESORT
 MARGATE, FLORIDA**

DRAWN BY :
 B. TUCKER
 CHECKED BY :
 S. GAYDOSH
 DATE :
 FEBRUARY - 2010
 SCALE :
 3/16" = 1'-0" U.N.O.
 JOB NUMBER(S) :
 090404
 DRAWING
S-2.4
 SHEET
 5 OF 15 SHEETS

LINTEL DESIGN TABLE

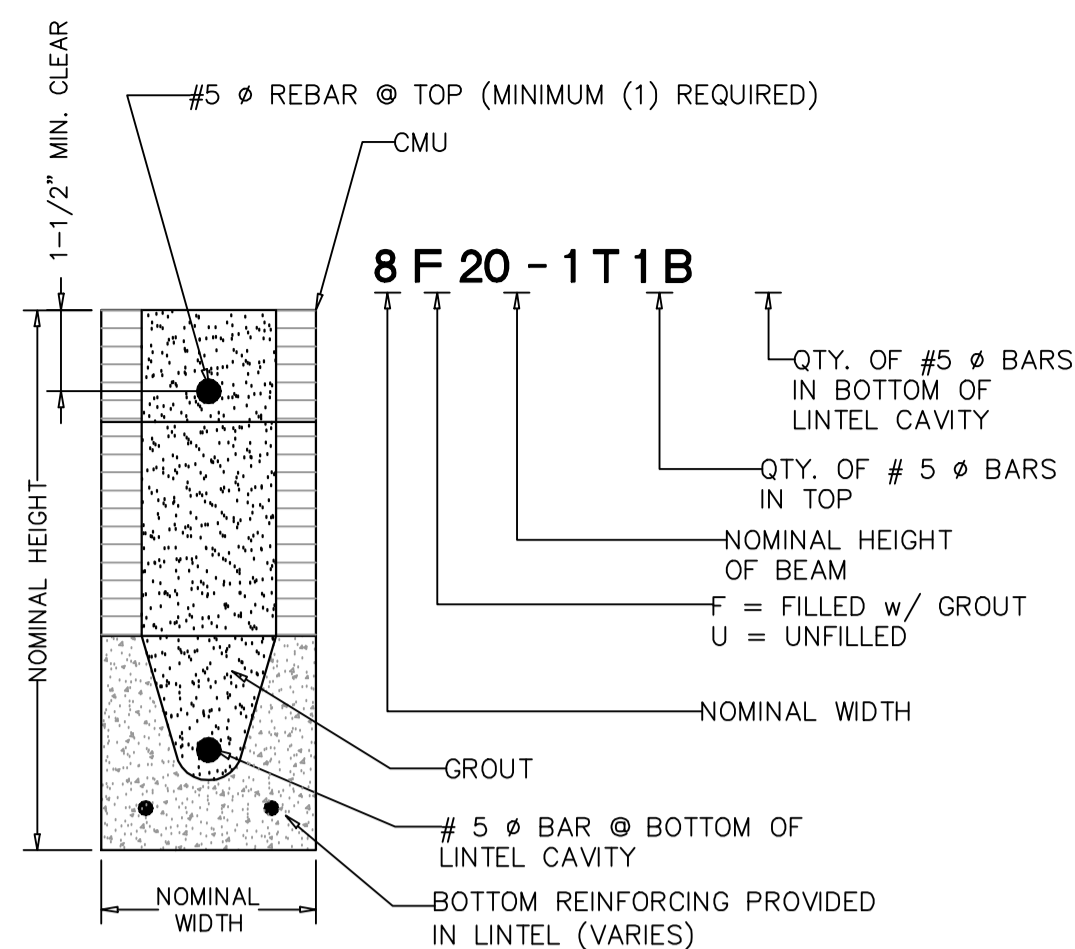
| MARK NO. | LINTEL LENGTH (FEET - INCH) | LINTEL DESCR. (SEE TBL. ABV.) | ACT. UPLIFT (# / LF) | ALLOW. UPLIFT (# / LF) | ACT. GRVTY. (# / LF) | ALL. GRVTY. (# / LF) |
|----------|-----------------------------|-------------------------------|----------------------|------------------------|----------------------|----------------------|
| (A) | 4' - 0" | 8F40 - 1TOB | 280 | 6627 | 500 | 8107 |
| (B) | 7' - 6" | 8F40 - 1T1B | 1110 | 3508 | 2040 | 6472 |
| (C) | 7' - 6" | 8F40 - 1T1B | 1110 | 3508 | 2040 | 6472 |
| (D) | 7' - 6" | 8F16 - 1T1B | 1110 | 1634 | 2040 | 2661 |
| (E) | 7' - 6" | 8F8 - 1T1B | 280 | 727 | 500 | 1011 |
| (F) | 7' - 6" | 8F40 - 1T1B | 1110 | 3508 | 2040 | 6472 |
| (G) | 7' - 6" | 8F40 - 1T1B | 1110 | 3508 | 2040 | 6472 |
| (H) | 7' - 6" | 8F40 - 1T1B | 1110 | 3508 | 2040 | 6472 |
| (I) | 7' - 6" | 8F40 - 1TOB | 340 | 3508 | 710 | 3685 |
| (J) | 4' - 0" | 8F40 - 1TOB | 340 | 6627 | 710 | 8107 |
| (K) | 9' - 4" | 8F36 - 1TOB | 340 | 2494 | 710 | 3302 |
| (L) | 7' - 6" | 8F40 - 1TOB | 340 | 3508 | 710 | 3685 |
| (M) | 9' - 4" | 8F24 - 2T1B | 1600 | 2084 | 2800 | 3486 |
| (N) | 9' - 4" | 8F24 - 2T1B | 1600 | 2084 | 2800 | 3486 |
| (O) | 9' - 4" | 8F24 - 2T1B | 1600 | 2084 | 2800 | 3486 |
| (P) | 9' - 4" | 8F24 - 2T1B | 1600 | 2084 | 2800 | 3486 |
| (Q) | 9' - 4" | 8F24 - 2T1B | 1600 | 2084 | 2800 | 3486 |
| (R) | 4' - 0" | 8F40 - 1TOB | 1600 | 6627 | 2800 | 8107 |
| (S) | 7' - 6" | 8F40 - 1TOB | 340 | 3508 | 710 | 3685 |
| (T) | 7' - 6" | 8F40 - 1TOB | 340 | 3508 | 710 | 3685 |
| (U) | 4' - 0" | 8F40 - 1TOB | 340 | 6627 | 710 | 8107 |
| (V) | 14' - 0" | 8F40 - 2T1B | 340 | 1954 | 710 | 2630 |

ALLOWABLE LOADS SPECIFIED ABOVE ARE BASED ON TABLES PROVIDED BY CAST-CRETE, & ARE BASED ON ACI - 318 LINTELS TO BE FILLED w/ 3,000 PSI CONCRETE (MINIMUM)
 ANOTHER MANUFACTURER'S MAY BE SUBSTITUTED PROVIDED THE ALLOWABLE LOADS MEET OR EXCEED THOSE STATED HEREIN FOR THIS DESIGN
 SAFE LOADS ARE BASED ON A MINIMUM OF 4" BEARING EACH END

LINTEL DESIGN

PER FBC-07 DESIGN REQUIREMENTS

SCALE : N. T. S.



WINDOW/MANDOOR BUCK NAILING SCHEDULE

SCALE : N. T. S.

NOTE #1. (MAX. OF 10' TALL, 8' WIDE DOOR / WINDOW IN 140 MPH WINDS)
 MASONRY WINDOW OPENINGS TO HAVE 2 X 3 (MIN.) BEVELED EDGE, PRESERVATIVE-TREATED WOOD USED FOR WINDOW / MANDOOR MOUNTING SURFACE. WINDOW BUCK TO BE ATTACHED w/ 3/16" TAPCONS, SPACED @ 6" FROM ENDS & 18" o/c, ON SIDES & TOP w/ A MIN. EMBEDMENT INTO CONCRETE/MASONRY OF 1-1/2". CONCRETE PRECAST (OR CAST-IN-PLACE) SILL TO BE FASTENED ON BOTTOM. WINDOW SHOULD BE FASTENED w/ # 10 X 1" WOOD SCREWS PER THE MANUFACTURER'S STRUCTURAL SCREW HOLE LOCATIONS. AN ADHESIVE, WATER-PROOF CAULKING SHOULD BE USED FOR SEALING.

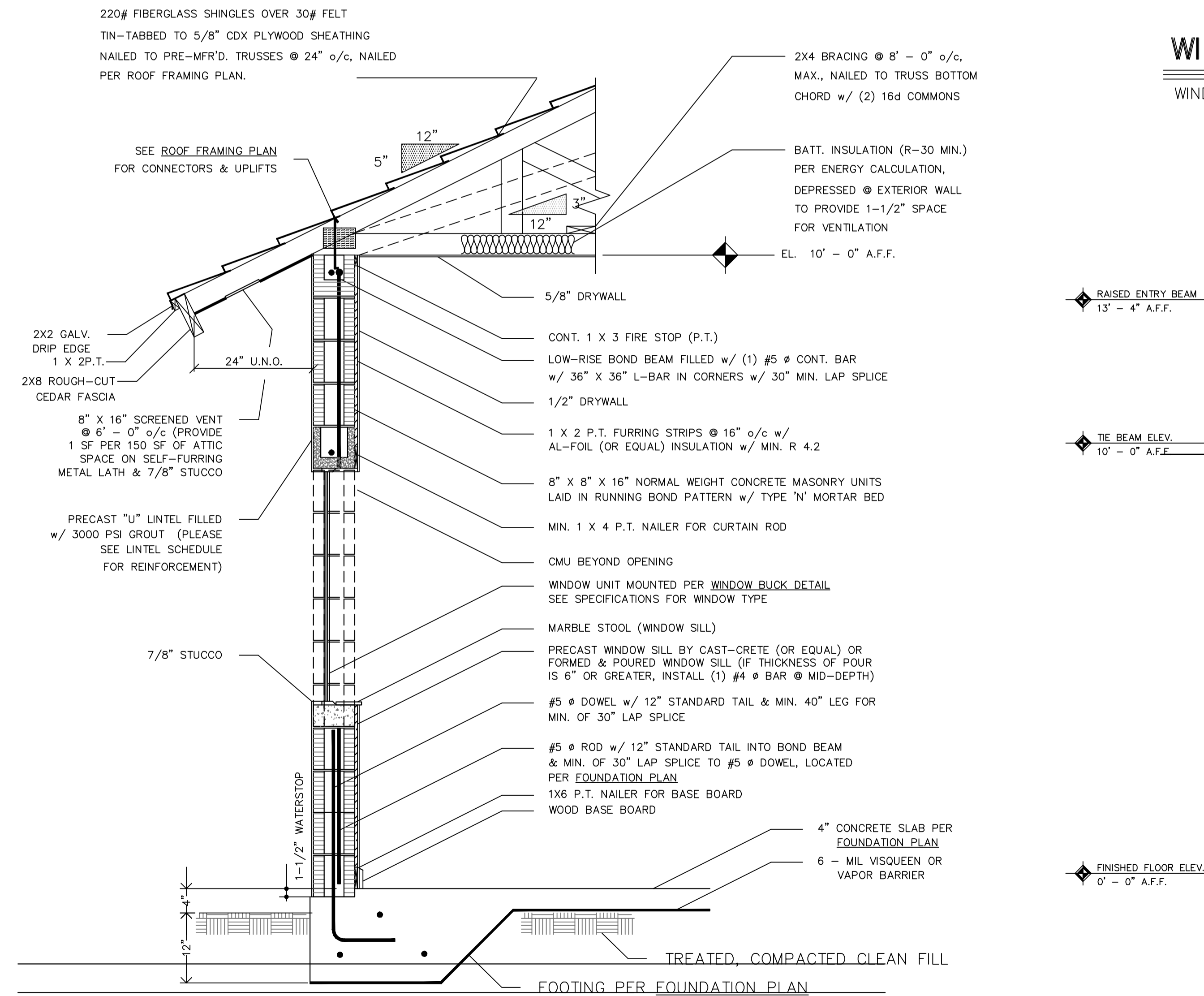
NOTE #2
 IF BUCK IS 1X PRESERVATIVE-TREATED MATERIAL, THEN FRAME TO BE ATTACHED USING 1" TAPCONS w/ 1-1/2" MINIMUM EMBEDMENT INTO CONCRETE OR MASONRY INSTALLED THROUGH THE FRAME AND BUCK MATERIAL.

- (A) INTERIOR BUILDING ZONE PRESSURE FOR COMPONENTS & CLADDING, 140 MPH, FBC-2007, 2009 SUPPLS., +45.5 psf, -49.3 psf
- (B) END BUILDING ZONE PRESSURE FOR COMPONENTS & CLADDING, 140 MPH, FBC-2007, 2009 SUPPLS., +45.5 psf, -60.9 psf

WINDOW BUCK ATTACHMENT

WINDOW BUCK CONNECTION DETAILS

SCALE : N. T. S.



TYPICAL WALL SECTION

EXTERIOR WALL SECTION

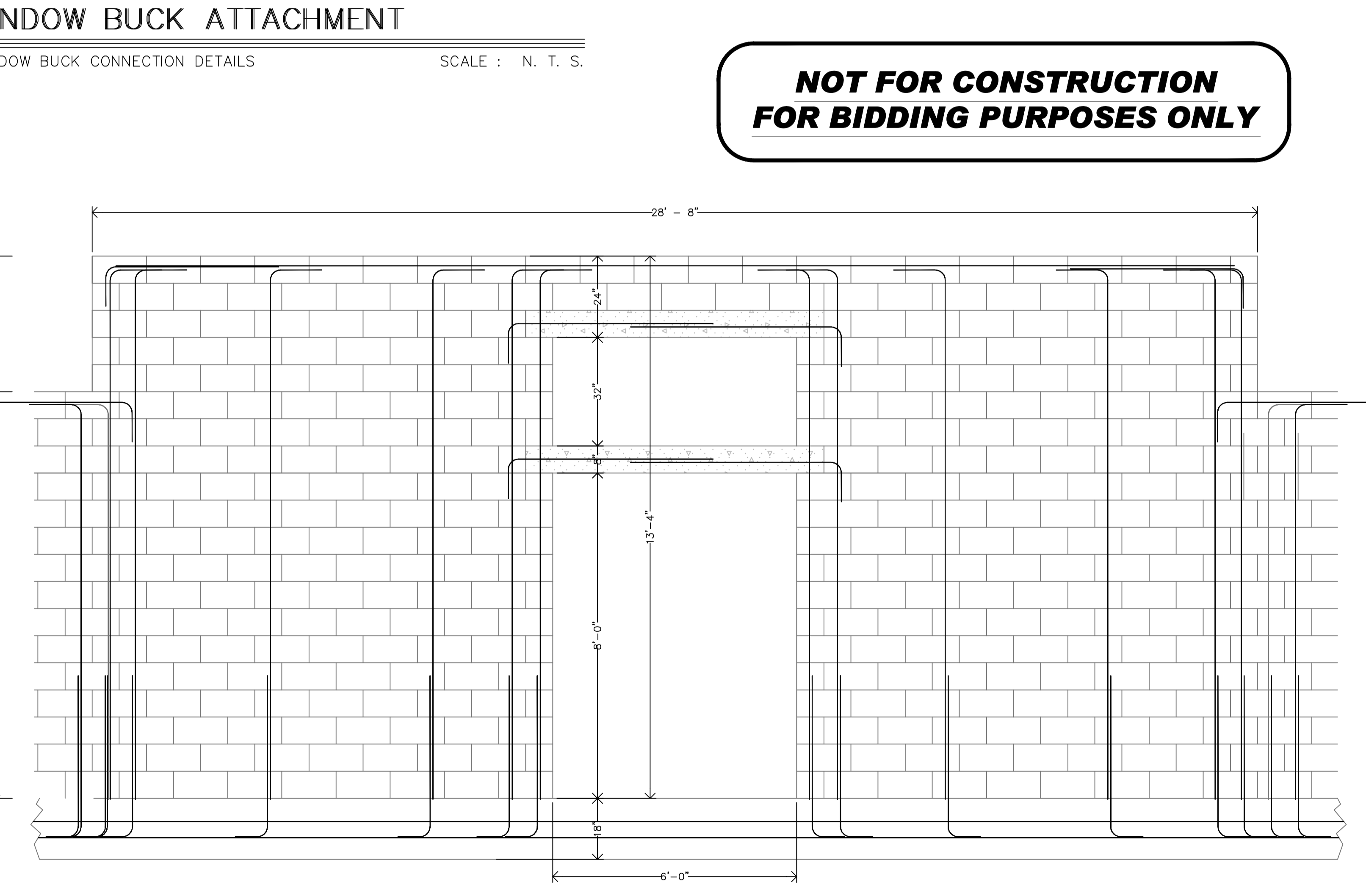
SCALE : N. T. S.



GARAGE DOOR

DOOR BUCK DETAIL

SCALE : N. T. S.



FRONT ENTRY WALL

FRONT ELEVATION

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

**NOT FOR CONSTRUCTION
FOR BIDDING PURPOSES ONLY**

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CARMAHAN-PROCTOR-CROSS, INC.
 CONSULTING ENGINEERS, SURVEYORS, PLANNERS
 14 E. WASHINGTON AVE., STE. #200
 ORLANDO, FL 32801
 PHONE: (407) 391-2100
 FAX: (407) 391-2100

MARGATE OFFICE
 3825 N. COOPERWAY PARKWAY
 MARGATE, FLORIDA 32063
 PHONE: (904) 453-2800
 FAX: (904) 453-2800

PORT ST. LUCE OFFICE
 14 E. WASHINGTON AVE., STE. #200
 ORLANDO, FL 32801
 PHONE: (407) 391-2100
 FAX: (407) 391-2100

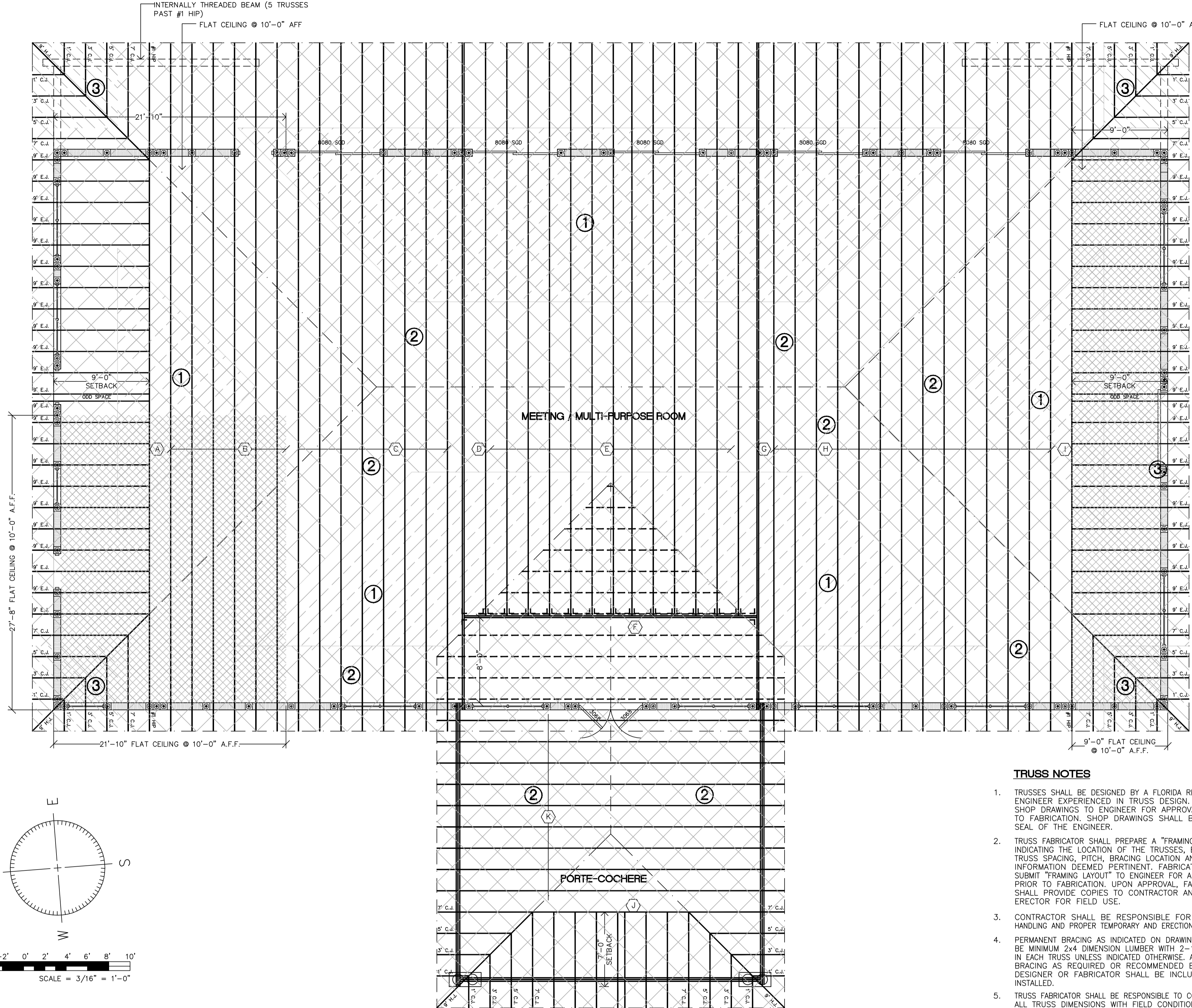
STEPHEN J. GAYDOSH
 PROFESSIONAL ENGINEER
 LICENSE NO. 38464
 STATE OF FLORIDA
 REGISTERED PROFESSIONAL ENGINEER
 EXPIRES 12/31/2010

CLUBHOUSE FACILITY :
LINTEL SCHEDULE -- WALL SECTS.
AZTEC RESORT
MARGATE, FLORIDA

DRAWN BY :
 B. TUCKER
 CHECKED BY :
 S. GAYDOSH
 DATE :
 FEBRUARY - 2010
 SCALE :
 3/16" = 1'-0" U.N.O.
 JOB NUMBER(S) :
 090404
 DRAWING

S-2.5

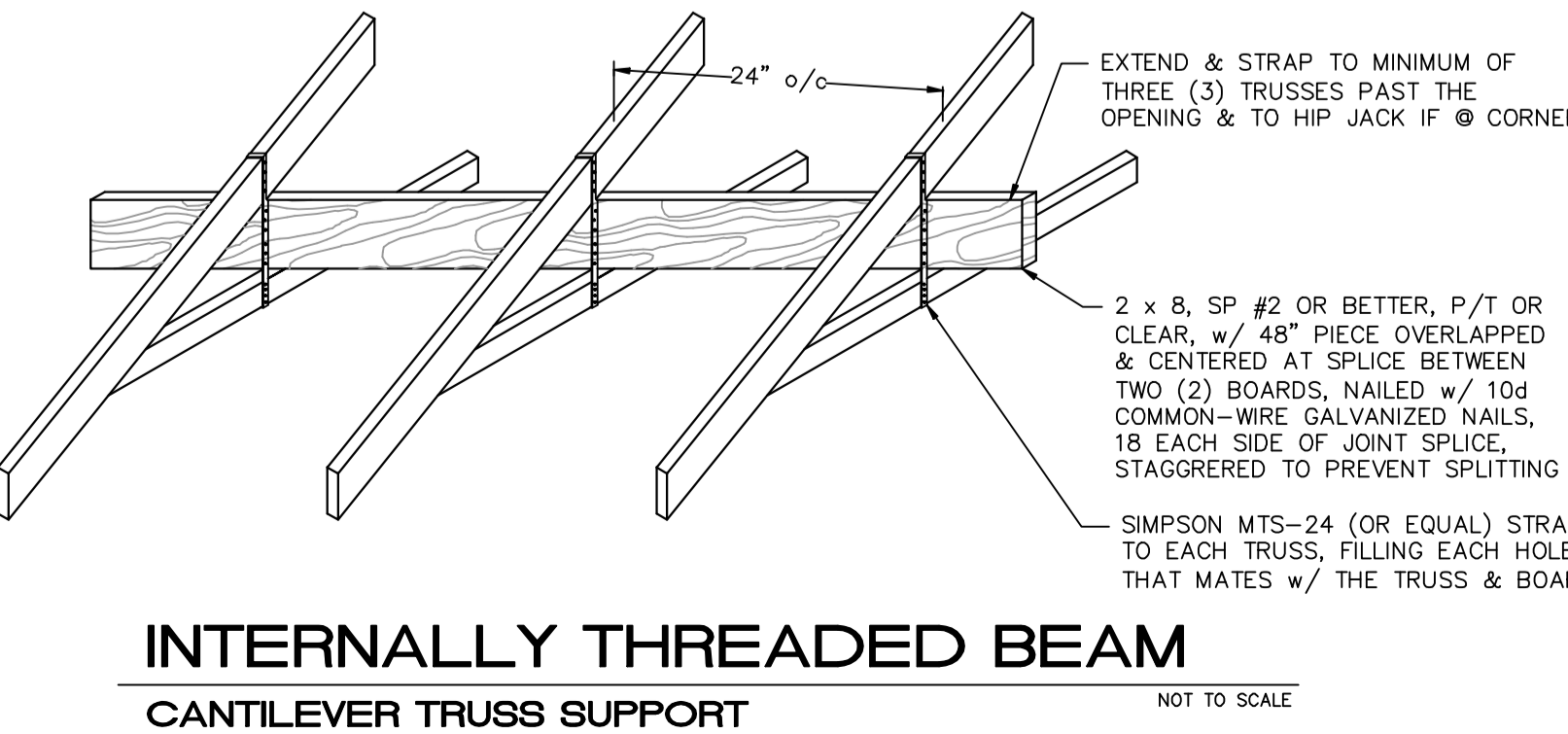
SHEET
 6 OF 15 SHEETS



ROOF FRAMING PLAN
LAYOUT OF TRUSSES & STRAPPING SCHEDULE SCALE: 3/16" = 1'-0"

PLEASE REFER TO SHEET AS.9 FOR WALL AND BEAM DETAILS
PER CALCULATION ON SHEET S2.2, THE EDGE DISTANCE USED FOR END ZONES IS 6.0', MEASURED FROM THE EDGES AND THE RIDGELINES OF THE ROOF.
ENTIRE ROOF TO BE NAILED w/ 8d RING-SHANK NAILS SPACED AT 4" o/c EDGE & 6" o/c IN-FIELD.

**NOT FOR CONSTRUCTION
FOR BIDDING PURPOSES ONLY**



GENERAL NOTES

- THIS DESIGN IS BASED ON FBC - 07 WITH A WIND SPEED OF 140 MPH & A NON - COASTAL EXPOSURE. THE MEAN ROOF HEIGHT IS LESS THAN 33.00'.
- THE BUILDING / STRUCTURE WAS DESIGNED AS CLOSED, w/ AN IMPORTANCE / USE FACTOR OF 1.00.
- THE END ZONE OF THE BUILDING IS 8.0 FEET FROM EACH CORNER OF THE BUILDING TOWARDS THE CENTER OF THE WALL.
- STRAPPING REQUIREMENTS SHOULD BE BASED ON THIS DESIGN -- ANY TRUSSES THAT REQUIRE THE INSTALLATION OF PIGGY-BACKS AND / OR VALLEY SETS HAS HAD THAT ADDITIONAL LOADING INCLUDED IN THE UPLIFTS SPECIFIED HEREIN.
- BEARING POINT # 1 IS STARTING AT THE TOP OR LEFT EDGE OF THE PAGE, AS APPLICABLE.
- TRUSS - TO - TRUSS CONNECTIONS (NOTED AS * IN THE TABLE) WILL BE SPECIFIED BY THE TRUSS MANUFACTURER. TRUSSES TO BE SPACED AT 24" o/c, MAXIMUM, UNLESS NOTED OTHERWISE ON THE DRAWING.
- VALLEY SETS AND GABLE ENDS SHOULD BE STRAPPED WITH SIMPSON TS-18 (OR EQUAL) AT 48" o/c FOR WOOD-FRAMED WALLS, & ETA-12 AT 48" o/c FOR CONCRETE OR MASONRY WALLS, NAILED TO RESIST 120 PLF UPLIFTS, UNLESS NOTED OTHERWISE.
- ALL TRUSS TO CONCRETE / MASONRY SHALL BE SEPARATED USING SIMPSON TSS PLATES (OR EQUAL) OR DOUBLE - LAYER OF 30# FELT PAPER.
- STRAPS DESIGNATED HEREIN CAN HAVE ANOTHER MANUFACTURER'S STRAP SUBSTITUTED SO LONG AS IT MEETS CODE & CAN BE USED IN THE APPLICATION SHOWN & CAN RESIST THE LOADS INDICATED IN THE TABLE ABOVE. STRAPS MUST BE INSTALLED IN ACCORDANCE w/ THAT MANUFACTURER'S SPECIFICATIONS. THE INDICATION IN THE TABLE ABOVE OF 2 (TWO) INDICATES TWO OF THOSE STRAPS SHOULD BE USED IN THIS INSTANCE.
- NAILS SPECIFIED IN THE ROOF SHEATHING NAILING SCHEDULE ARE COMMON - WIRE, HAND - DRIVEN NAILS. THE SAME DIAMETER OF NAILS SHOULD BE USED IF POWER - DRIVEN NAILS ARE USED INSTEAD OF HAND - DRIVEN NAILS.
- FOR ALL JACKS (HIPS, CORNERS, & ENDS), THE BEARING POINT # 1 IS THE ATTACHMENT TO THE WALL. THE BEARING POINT # 2 IS THE ATTACHMENT AT THE TOP CHORD, & THE BEARING POINT # 3 IS THE ATTACHMENT OF THE BOTTOM CHORD.

TRUSS UPLIFT & LATERAL WIND LOADS

| TRUSS MARK NUMBER | TRUSS BEARING POINT # 1 | | | TRUSS BEARING POINT # 2 | | | TRUSS BEARING POINT # 3 | | |
|-------------------|-------------------------|---------------|------------|-------------------------|---------------|------------|-------------------------|---------------|------------|
| | UPLIFT (LBS) | LATERAL (LBS) | STRAP TYPE | UPLIFT (LBS) | LATERAL (LBS) | STRAP TYPE | UPLIFT (LBS) | LATERAL (LBS) | STRAP TYPE |
| A | 7390 | 620 | VGT | 4780 | 460 | VGT | --- | --- | --- |
| B | 3450 | 350 | VGT | 2260 | 200 | E | --- | --- | --- |
| C | 3160 | 300 | TYPE | 2210 | 200 | E | --- | --- | --- |
| D | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| E | 3160 | 300 | TYPE | 1920 | 170 | * | --- | --- | --- |
| F | 11,520 | 670 | * | 11,520 | 670 | * | --- | --- | --- |
| G | 6430 | 600 | TYPE | 8490 | 800 | TYPE | --- | --- | --- |
| H | 3160 | 300 | TYPE | 2210 | 200 | E | --- | --- | --- |
| I | 6790 | 620 | TYPE | 5530 | 530 | TYPE | --- | --- | --- |
| J | 3270 | 300 | TYPE | 3270 | 300 | TYPE | --- | --- | --- |
| K | 1770 | 160 | C | 1770 | 160 | C | --- | --- | --- |
| L | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| M | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| O | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| P | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Q | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7' Hjs | 460 | 40 | A | 200 | 40 | * | 200 | 40 | * |
| 9' Hjs | 540 | 50 | A | 200 | 40 | * | 200 | 40 | * |
| 7' - 9' Ejs | 350 | 40 | A | 200 | 40 | * | 200 | 40 | * |
| 1' - 7' Cjs | 280 | 40 | A | 200 | 40 | * | 200 | 40 | * |

STRAP TYPE NAILING TABLE

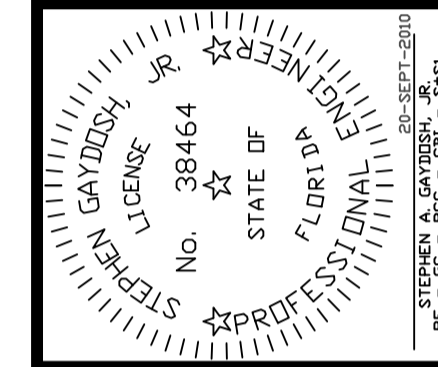
| STRAP TYPE | STRAP INFORMATION | | FASTENER SIZE & NUMBER | | ALLOWABLE LOADINGS | |
|------------|-------------------|--------------|------------------------|-------------------|--------------------|---------------|
| | MANUFACTURER | STRAP TYPE | HEADER | TRUSS | UPLIFT (LBS) | LATERAL (LBS) |
| A | SIMPSON | META 12 | N / A | (7) 10d X 1 1/2" | 1240 | 635 |
| | USP CONNECTOR | HTA 16-18 | N / A | (7) 10d X 1 1/2" | 1600 | 325 |
| B | SIMPSON | HETAL 16 | N / A | (15) 10d X 1 1/2" | 1810 | 730 |
| | USP CONNECTOR | TAPL 12 | N / A | (15) 10d X 1 1/2" | 1350 | 880 |
| C | SIMPSON | (2) HETAL 16 | N / A | (15) 10d X 1 1/2" | 2035 | 1160 |
| | USP CONNECTOR | (2) TAPL 16 | N / A | (15) 10d X 1 1/2" | 1985 | 990 |
| D | SIMPSON | HETAL 20 | N / A | (15) 10d X 1 1/2" | 1810 | 1100 |
| | USP CONNECTOR | TAPL 16 | N / A | (15) 10d X 1 1/2" | 1350 | 880 |
| E | SIMPSON | (2) HETAL 20 | N / A | (15) 10d X 1 1/2" | 2435 | 1640 |
| | USP CONNECTOR | (2) TAPL 16 | N / A | (15) 10d X 1 1/2" | 1985 | 1250 |
| F | SIMPSON | HETA 20 | N / A | (9) 10d X 1 1/2" | 1690 | 730 |
| | USP CONNECTOR | HTA 20 | N / A | (10) 10d X 1 1/2" | 1774 | 660 |
| G | SIMPSON | MTS 12 | (7) 10d X 1 1/2" | (7) 10d X 1 1/2" | 840 | 85 |
| | USP CONNECTOR | MTW 12 | (7) 10d X 1 1/2" | (7) 10d X 1 1/2" | 860 | 75 |
| H | RED IRON BUCKET | 1 | (2) 5/8" | (2) 5/8" | 3570 | 500 |
| | RED IRON BUCKET | 2 | (2) 3/4" | (2) 3/4" | 5150 | 650 |
| | RED IRON BUCKET | 3 | (4) 5/8" | (4) 5/8" | 8990 | 830 |
| | RED IRON BUCKET | 4 | (4) 3/4" | (4) 3/4" | 11,450 | 980 |
| | RED IRON BRACKET | 5 | (4) 5/8" | (4) 5/8" | 560 | 830 |
| | RED IRON BRACKET | 6 | (4) 5/8" | (4) 5/8" | 17,300 | 980 |
| | RED IRON BRACKET | 7 | (4) 3/4" | (4) 3/4" | --- | --- |

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CARMAHAN-PROCTOR-CROSS, INC.
CONSULTING ENGINEERS, ARCHITECTS, PLANNERS
14 E. WASHINGTON AVE., STE. #200
ORLANDO, FL 32801
TEL: (407) 397-1800
FAX: (407) 397-2700

MARGATE OFFICE
3825 N. COMMERCE PARKWAY
MARGATE, FLORIDA 32063
TEL: (904) 453-3900
FAX: (904) 453-3900

PORT ST. LUCE OFFICE
1848 SE PORT ST. LUCE BLVD.
PORT ST. LUCE, FL 34952-5545
TEL: (888) 337-3700
FAX: (888) 337-3700



CLUBHOUSE FACILITY :
ROOF FRAMING PLAN
AZTEC RESORT
MARGATE, FLORIDA

DRAWN BY :
B. TUCKER
CHECKED BY :
S. GAYDOSH
DATE :
FEBRUARY - 2010
SCALE :
3/16" = 1'-0" U.N.O.
JOB NUMBER(S) :
090404
DRAWING
S-2.6
SHEET
OF 15 SHEETS

HVAC DESIGN DATA

| UNIT NO. | MFR. DESC. | MFR. MODEL # | DES. REQ'TS (BTUs) | | MFR. PROV. (BTUs) | | SEER RATING |
|----------|--------------|------------------|--------------------|-----------|-------------------|-----------|-------------|
| | | | SEN. HEAT | SEN. COOL | SEN. HEAT | SEN. COOL | |
| 1 | TRANE A.H.U. | 4TR3060A1000A | 30, 681 | --- | 5 KW | --- | --- |
| | TRANE C.U. | CLIMATUFF-SCROLL | --- | 155, 252 | --- | 60, 000 | 13.0 |
| 2 | TRANE A.H.U. | 4TR3060A1000A | 30, 681 | --- | 5 KW | --- | --- |
| | TRANE C.U. | CLIMATUFF-SCROLL | --- | 155, 252 | --- | 60, 000 | 13.0 |
| 3 | TRANE A.H.U. | 4TR3060A1000A | 30, 681 | --- | 5 KW | --- | --- |
| | TRANE C.U. | CLIMATUFF-SCROLL | --- | 155, 252 | --- | 60, 000 | 13.0 |
| 4 | TRANE A.H.U. | 4TR3060A1000A | 30, 681 | --- | 5 KW | --- | --- |
| | TRANE C.U. | CLIMATUFF-SCROLL | --- | 155, 252 | --- | 60, 000 | 13.0 |
| 5 | TRANE A.H.U. | --- | --- | --- | --- | --- | --- |
| | TRANE C.U. | --- | --- | --- | --- | --- | --- |
| 6 | TRANE A.H.U. | --- | --- | --- | --- | --- | --- |
| | TRANE C.U. | --- | --- | --- | --- | --- | --- |

CONTRACTOR TO VERIFY THE SIZE OF UNITS, DUCTS, & VENTS. ALTERNATES ARE PERMITTED PROVIDED THEY MEET THE REQUIREMENTS OF THE ATTACHED ENERGY CALCULATIONS & MANUAL "N" CALCULATIONS.

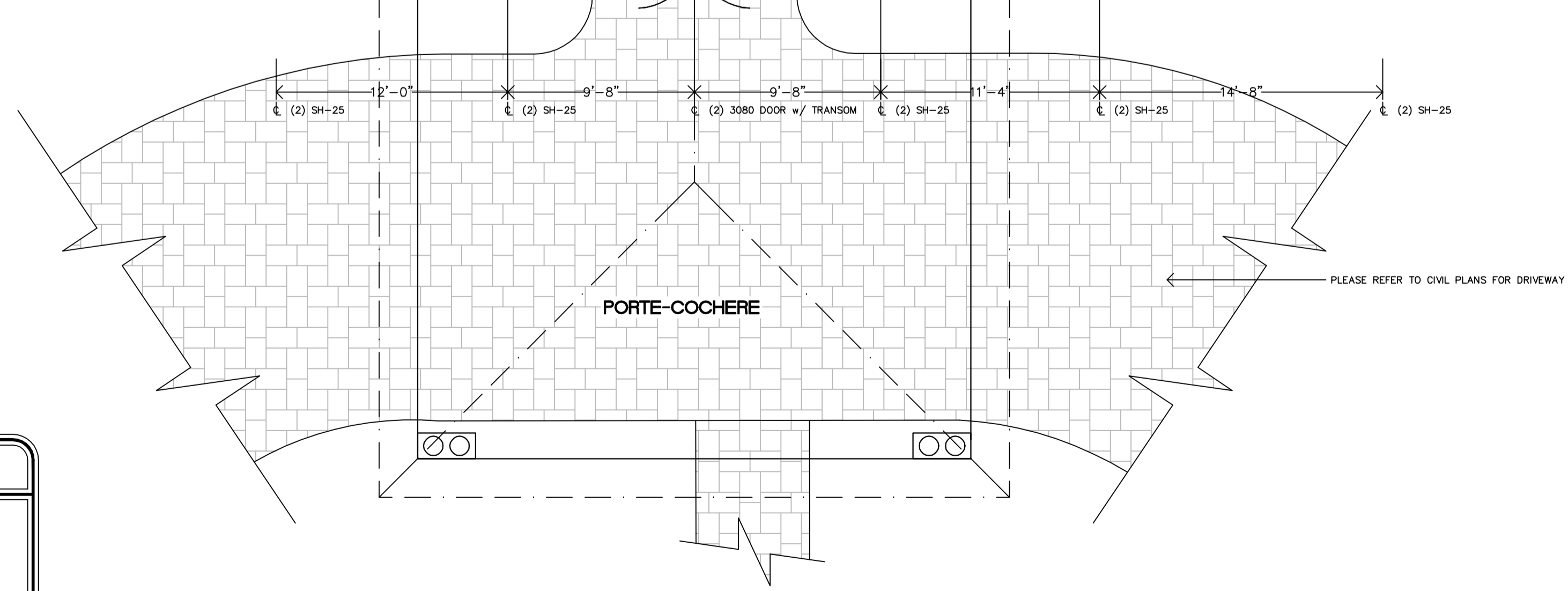
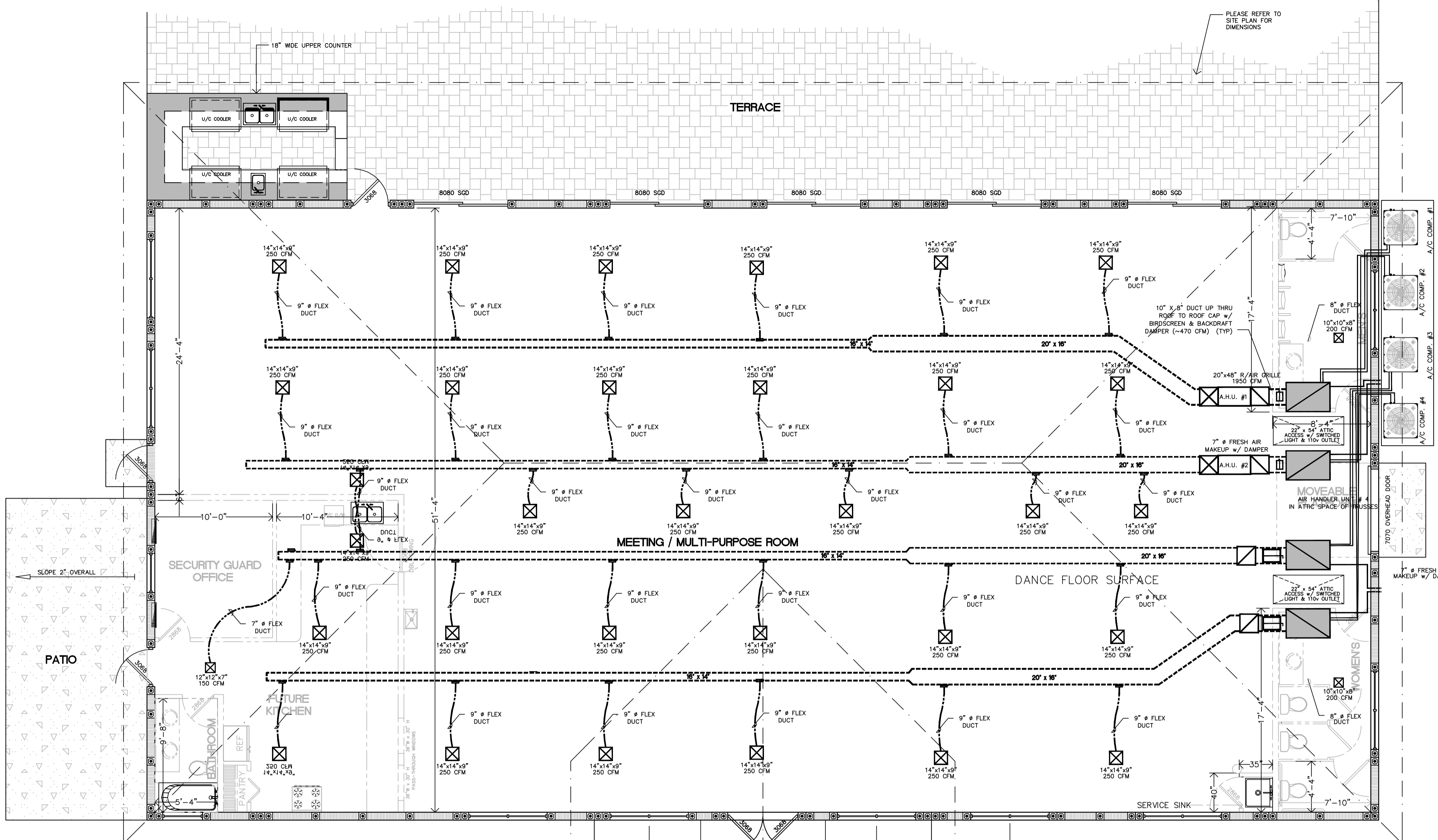
ALL SYSTEMS TO HAVE SMOKE DETECTOR MONITORS INSTALLED IN SYSTEM. SYSTEMS #3, #4, #5, & #6 TO HAVE HUMIDISTAT CONTROLS TO RUN SYSTEMS WHEN HUMIDITY GETS TOO GREAT.

LEGEND :

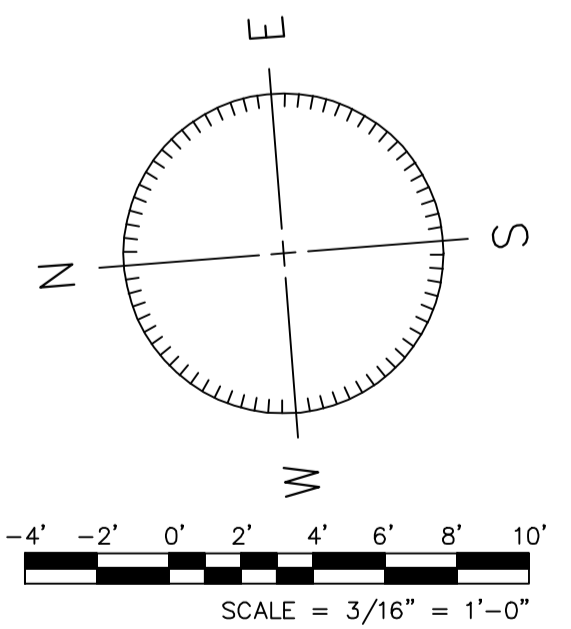
- 4-WAY VENT, XX" WIDE BY YY" LONG FED BY ZZ" FLEX DUCT w/ FLOW RATE XX x YY x ZZ ATUS ALL ALUMINUM, MODEL 2564A, OR EQUAL
- 9" FLEX DUCT, R-6.0 INSULATION VALUE
- A" RETURN AIR DUCT, A" R-6.0 INSULATION VALUE
- RETURN AIR IN CEILING w/ FILTER, B" WIDE x C" LONG TITUS ALL ALUMINUM, MODEL 272FS OR EQUAL
- PROGRAMMABLE THERMOSTAT
- DUCT DETECTOR
- R_s REFRIGERANT SUCTION PIPING
- R_l REFRIGERANT LIQUID PIPING
- CP CONDENSATE PIPING
- PRE-FABRICATED PLENUM R-6.0 INSULATION VALUE
- FRESH AIR MAKEUP w/ DAMPER
- FRESH AIR MAKEUP w/ DAMPER

NOT FOR CONSTRUCTION FOR BIDDING PURPOSES ONLY

- ### H.V.A.C. NOTES
- ALL SYSTEMS SHALL BE PROVIDED WITH SMOKE DETECTORS. THE SMOKE DETECTORS FROM THE HVAC SYSTEM SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM OF THE BUILDING. HVAC SMOKE DETECTORS SHALL COMPLY WITH UL-268A.
 - PROVIDE ATTIC ACCESS, 22" x 54", ADJACENT TO EACH AIR HANDLER UNIT. SERVICE PANEL FOR AHU SHALL BE LOCATED WITHIN 6' OF THE ACCESS OPENING. PROVIDE LIGHTING FIXTURE, SWITCHED AT ACCESS OPENING, w/ 110v RECEPTACLE OUTLET.
 - AS PER FBC-07/09, MECHANICAL CODE, SECTION 308.3.2.4, INSTALL A NOTICE IN THE ELECTRICAL SERVICE PANEL(S) INDICATING THE LOCATION OF THE AHU'S IN THE ATTIC SPACE.
 - CEILING IS ONE (1) HOUR FIRE RATED. PROVIDE A RADIATION DAMPER (NAILOR 1217-C OR RUSKIN EQUIVALENT) AT EACH DIFFUSER OR RETURN AIR GRILLE.
 - MAKE-UP AIR IS CALCULATED AS PER ASHRAE ADDENDUM 'N' TO STANDARD 62-2003. OCCUPANT LOAD IS 306 PEOPLE AND CALCULATED OUTSIDE AIR IS 1120 CFM (~ 375 CFM PER UNIT).
 - ENSURE THAT MAKE-UP AIR INTAKES ARE A MINIMUM OF 10' AWAY FROM ANY EXHAUST OPENING OR VENT STACKS.
 - ALL SYSTEMS SHALL BE PROVIDED WITH HUMIDISTAT CONTROLS FOR HUMIDITY CONTROL.
 - CONTRACTOR SHALL VERIFY THE SIZE OF ALL UNITS, DUCTS AND VENTS. ALTERNATES ARE PERMITTED PROVIDED THEY MATCH THE LOAD PROFILES SPECIFIED.
 - HVAC DESIGN CRITERIA TO BE IN COMPLIANCE WITH THE PERMIT PLANS & APPLICABLE CODES.
 - VENTILATION DUCTWORK SHALL BE GALVANIZED STEEL WITH GAUGE, DUCT CONSTRUCTION, BRACING AND SUSPENSION IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE CURRENT EDITION OF A.S.H.R.A.E. GUIDE & S.M.A.C.N.A. STANDARDS. DUCT SIZES SHOWN ARE "INSIDE" DIMENSIONS. VERIFY EXACT LOCATION OF DUCT WITH RESPECT TO STRUCTURE BEFORE FABRICATION.
 - FLEXIBLE DUCT SHALL BE STEEL HELIX WIRE ON 7/8" CENTERS.
 - WELDING TO FORM AN AIR-TIGHT INNER CORE, THE CORE IS TO BE INSULATED WITH FIBERGLASS INSULATION (R-6), AND SHEATHED IN A REINFORCED, ALUMINUM METALIZED POLYESTER VAPOR BARRIER JACKET. PROVIDE SPIN COLLAR WITH DAMPER AND EXTRACTOR WHERE FLEXIBLE DUCT IS CONNECTED TO RECTANGULAR DUCTWORK. DAMPER ACTUATOR SHALL BE EXTENDED OUTSIDE INSULATION.
 - AIR CONDITIONING SUPPLY AND RETURN DUCTWORK SHALL BE 1-1/2" (R-6 MIN.) FIBERGLASS UL 181 LISTED, CLASS 1 AIR DUCT. DUCTWORK SHALL BE FABRICATED IN ACCORDANCE WITH S.M.A.C.N.A. STANDARDS (R-6 TOP LEVEL, R-4.2 IN OTHER LEVELS).
 - TEMPERATURE CONTROL SHALL BE A ROOM THERMOSTAT FOR HEATING/COOLING WITH STAGES AS REQUIRED.
 - ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION & IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS.
 - ALL EQUIPMENT SHALL BE ISOLATED FROM VIBRATION PER MANUFACTURER'S SPECIFICATIONS TO ELIMINATE NOISE FROM BEING HEARD WHILE EQUIPMENT IS OPERATING.
 - REFRIGERATION SUCTION PIPING SHALL BE INSULATED WITH 3/4" INCOFLEX. ARMAFLEX MAY BE USED IN NON-PLENUM AREAS. FINISHED WHERE EXPOSED WITH TWO (2) COATS OF WHITE LATEX PAINT, PER MANUFACTURER'S SPECIFICATIONS.
 - ALL REFRIGERANT PIPING SHALL BE TYPE "K" HARD COPPER, TOGETHER WITH WROUGHT COPPER SOLDER FITTINGS. JOINTS SHALL BE WITH SILVER SOLDER OR "SILFOS." ALL CONDENSATE DRAIN PIPING TO BE SCHEDULE 40 TYPE II HIGH IMPACT PVC WITH SLIP JOINT FITTINGS OF THE SAME MATERIALS, JOINTED WITH AN APPROVED SOLVENT INSTALLED IN A MANNER RECOMMENDED BY THE FITTING MANUFACTURER.
 - ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE CURRENT FLORIDA MECHANICAL CODE (2007 w/ 2009 SUPPLEMENTS).



HVAC LAYOUT
PROPOSED HVAC SYSTEM LAYOUT SCALE : 3/16" = 1'-0"



OUTSIDE AIR CALCULATION
A.S.H.R.A.E. 62 - 2003

OUTSIDE AIR CALCULATIONS BASED ON EQUATION 6-1 OF THE ADDENDUM 'N' TO ASHRAE STANDARD 62-2003. SINCE THESE ARE SINGLE SPACE, SINGLE ZONE SYSTEMS, Vbz REPRESENTS TOTAL OUTSIDE AIR FOR EACH ZONE.

$Vbz = R_p Pz + RoAz$
WHERE :

R_p = OUTDOOR AIRFLOW RATE PER PERSON = 5 CFM/PERSON
 Pz = ZONE POPULATION = 306 PEOPLE
 Ro = OUTDOOR AIRFLOW RATE PER SQ. FT. = 0.06 CFM/SQ. FT.
 Az = ZONE FLOOR AREA = 5,512 SQ. FT.

$Vbz = R_p Pz + RoAz$
 $= (5 \text{ CFM/PERSON}) (306 \text{ PERSONS}) + (0.06 \text{ CFM/SQ. FT.}) (5,512 \text{ SQ. FT.})$
 $= 1,530 \text{ CFM} + 330.72 \text{ CFM}$
 $Vbz = 1,860.72 \text{ CFM}$ (USE 1870 CFM)

FOUR (4) HVAC SYSTEMS, SO MAKE-UP AIR FOR EACH SYSTEM IS:
 $1870 \text{ CFM} / 4 \text{ UNITS} = 467.5 \text{ CFM/UNIT}$

| REVISION | |
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CARMAHAN-PROCTOR-CROSS, INC.
CONSULTING ENGINEERS - SURVEYORS - PLANNERS
1400 UNIVERSITY BLVD., SUITE 200
ORLANDO, FLORIDA 32801
TEL: (407) 391-2700 FAX: (407) 391-2700

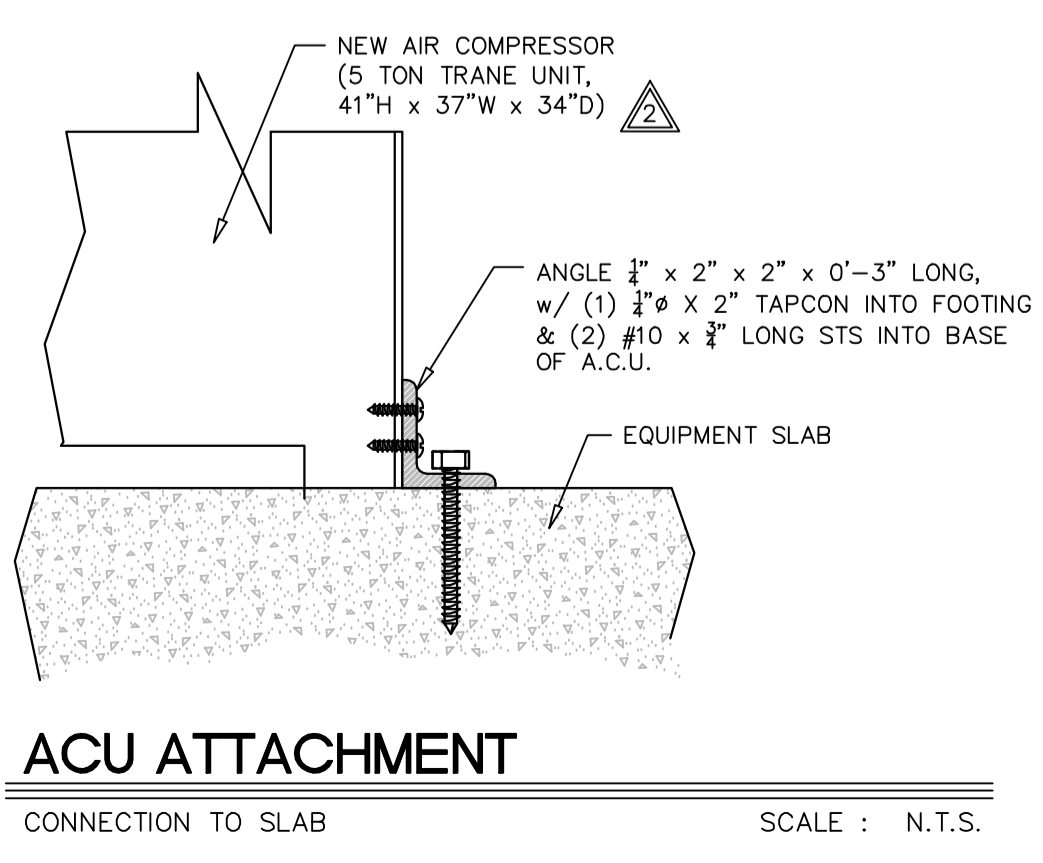
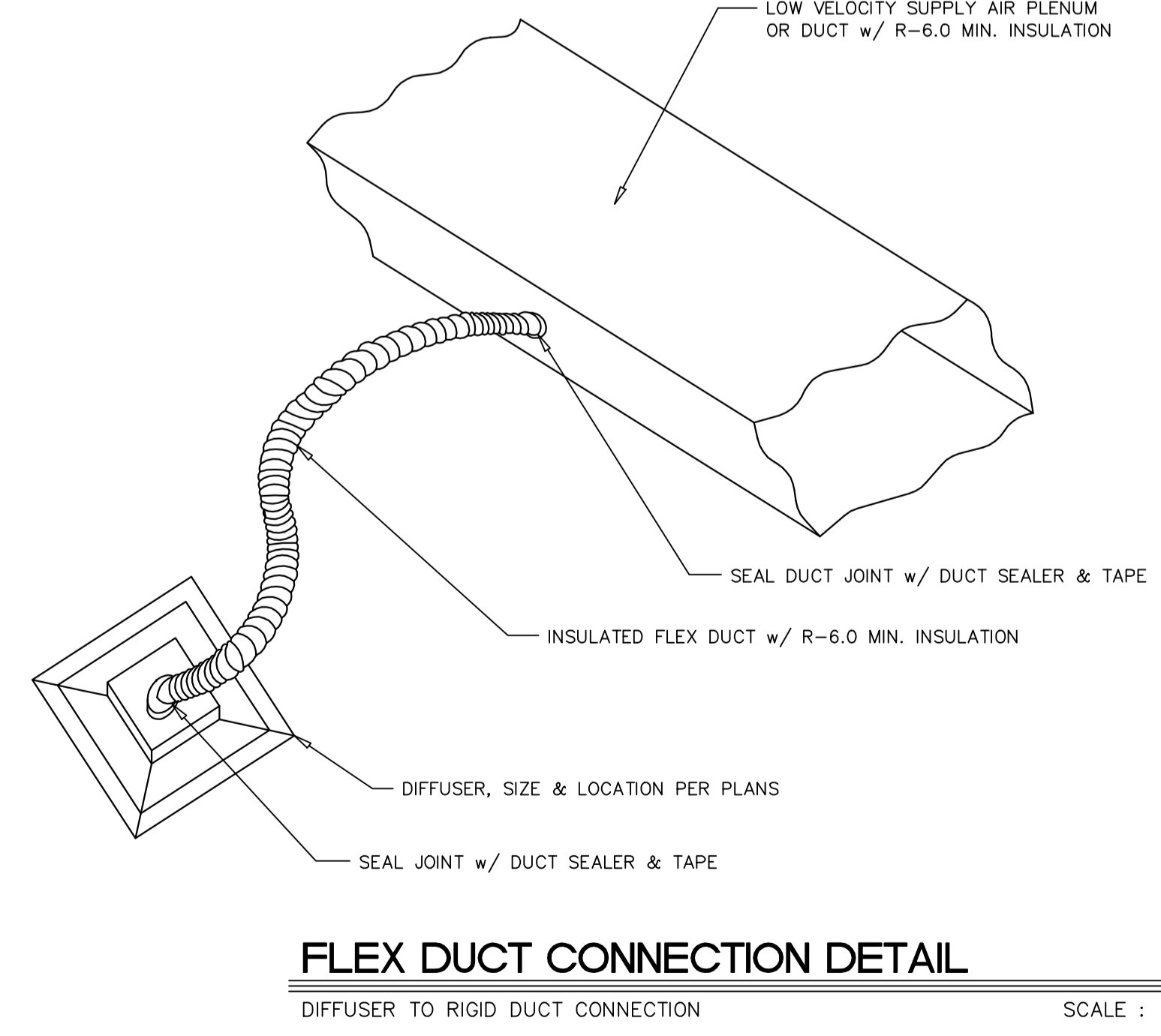
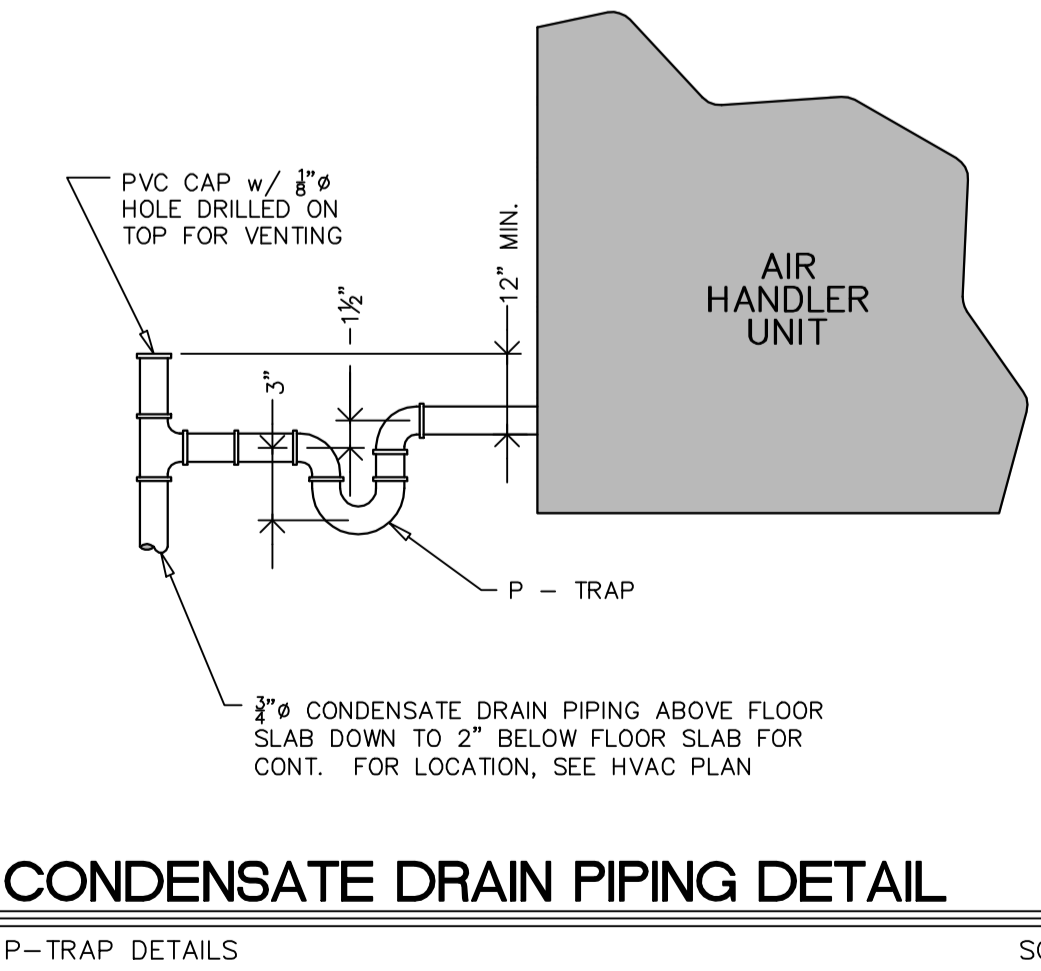
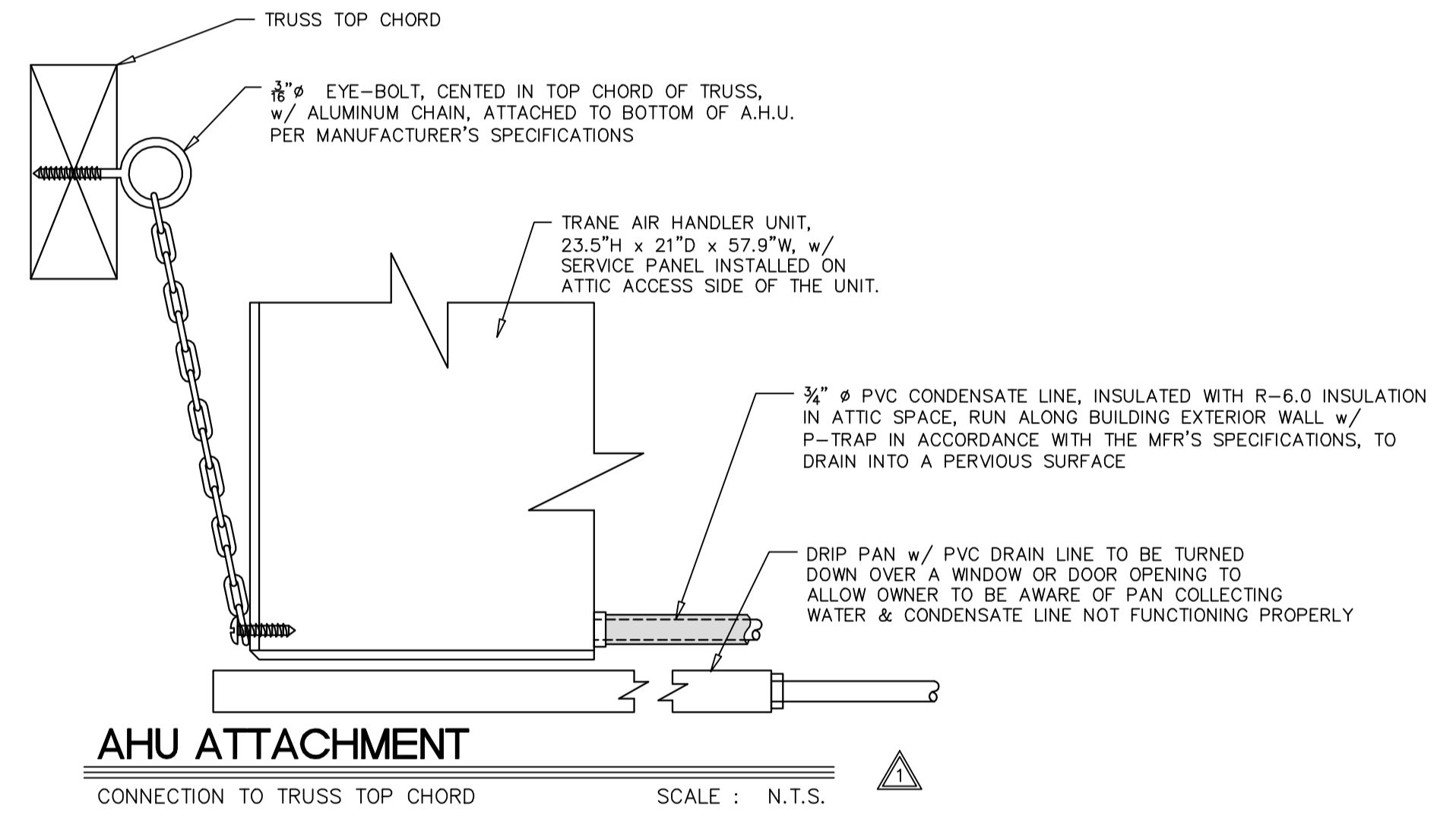
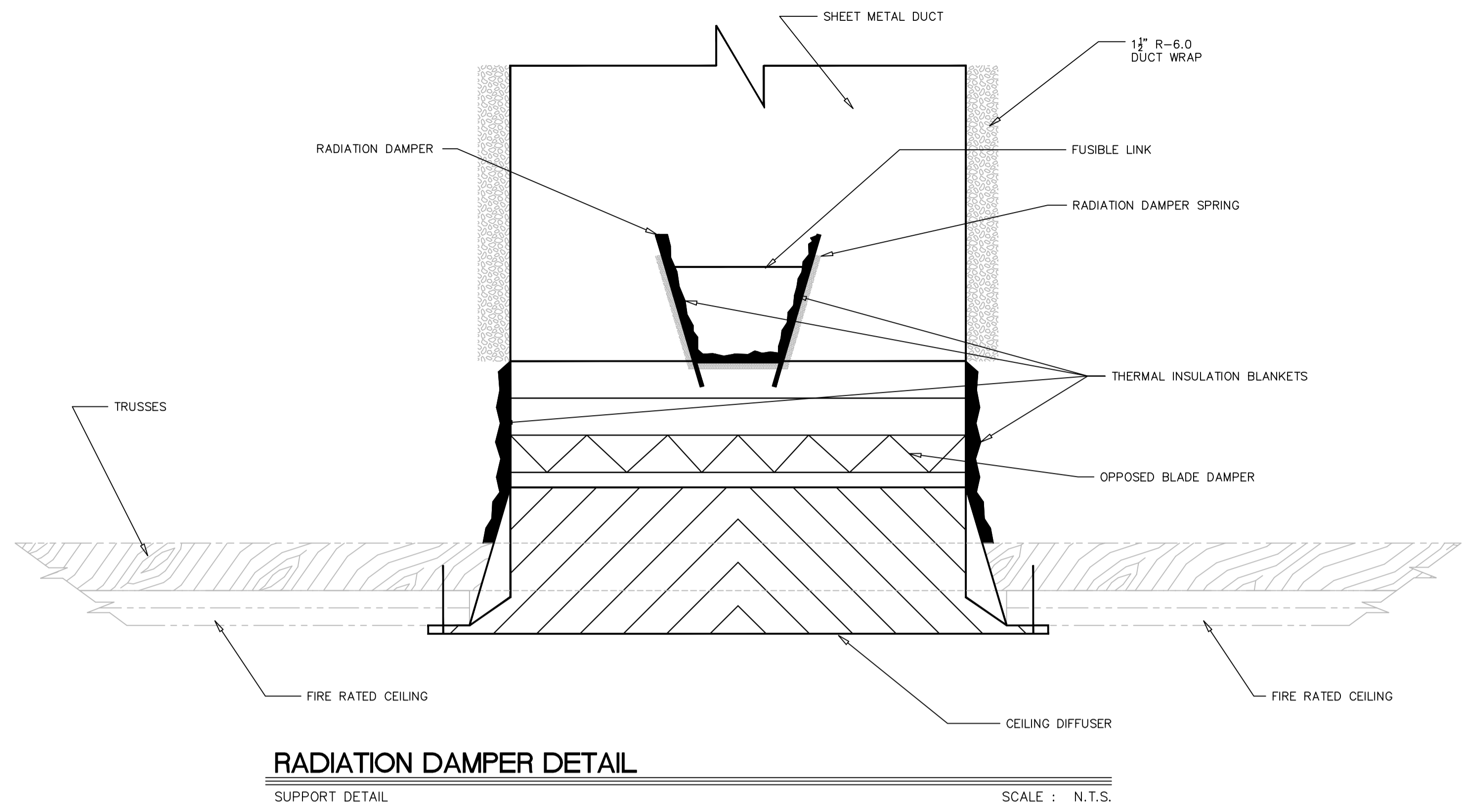
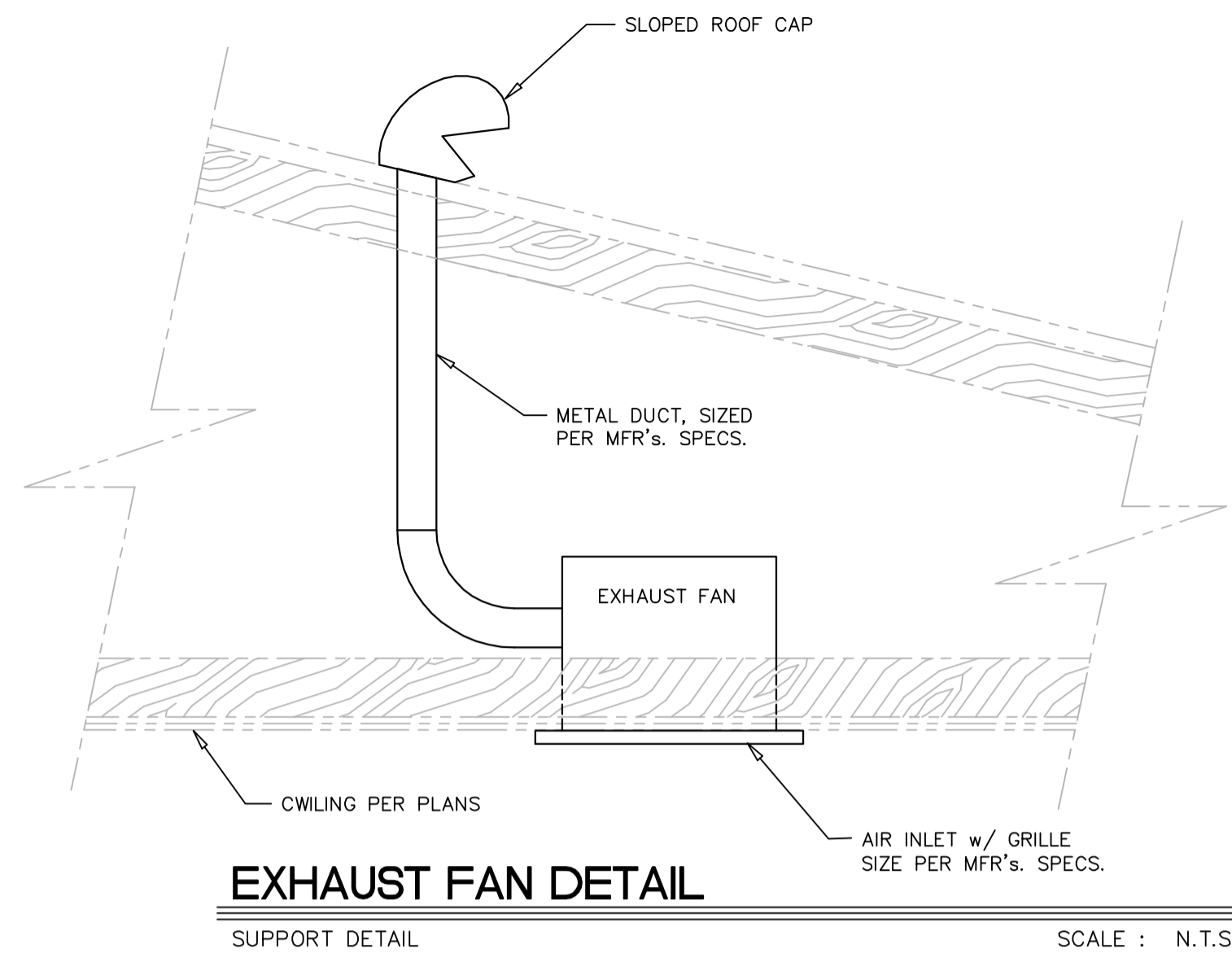
MARGATE OFFICE
3825 N. COMMERCE PARKWAY
MARGATE, FLORIDA 32063
TEL: (904) 478-4778 FAX: (904) 478-4778

ORLANDO OFFICE
14 E. WASHINGTON AVE., SUITE #200
ORLANDO, FLORIDA 32801
TEL: (407) 391-2700 FAX: (407) 391-2700

STEPHEN L. GAYDOSH, P.E.
Professional Engineer
No. 38464
FLORIDA
STATE OF FLORIDA
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 12/31/2010

CLUBHOUSE FACILITY :
HVAC LAYOUT PLAN
AZTEC RESORT
MARGATE, FLORIDA

DRAWN BY :
B. TUCKER
CHECKED BY :
S. GAYDOSH
DATE :
FEBRUARY - 2010
SCALE :
3/16" = 1'-0" U.N.O.
JOB NUMBER(S) :
090404
DRAWING
S-2.8
SHEET
OF 15 SHEETS



| REVISION | BY |
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CARMAHAN-PROCTOR-CROSS, INC.
 CONSULTING ENGINEERS, ARCHITECTS, PLANNERS
 100 EAST PALM BLVD., SUITE 200
 WEST PALM BEACH, FLORIDA 33411
 TEL: (561) 835-1100 FAX: (561) 835-1101
MERRITT ISLAND OFFICE
 3825 N. COMMERCE PARKWAY
 MERRITT ISLAND, FLORIDA 32953
 TEL: (321) 453-3800 FAX: (321) 453-3800
ORLANDO OFFICE
 14 E. WASHINGTON AVE., SUITE #200
 ORLANDO, FL. 32801
 TEL: (407) 397-1800 FAX: (407) 397-2700
PORT ST. LUCIE OFFICE
 1848 SE PORT ST. LUCIE BLVD., SUITE 200
 PORT ST. LUCIE, FL. 34952-5545
 TEL: (888) 888-8888 FAX: (888) 888-8888
PORT ST. LUCIE OFFICE
 1848 SE PORT ST. LUCIE BLVD., SUITE 200
 PORT ST. LUCIE, FL. 34952-5545
 TEL: (888) 888-8888 FAX: (888) 888-8888

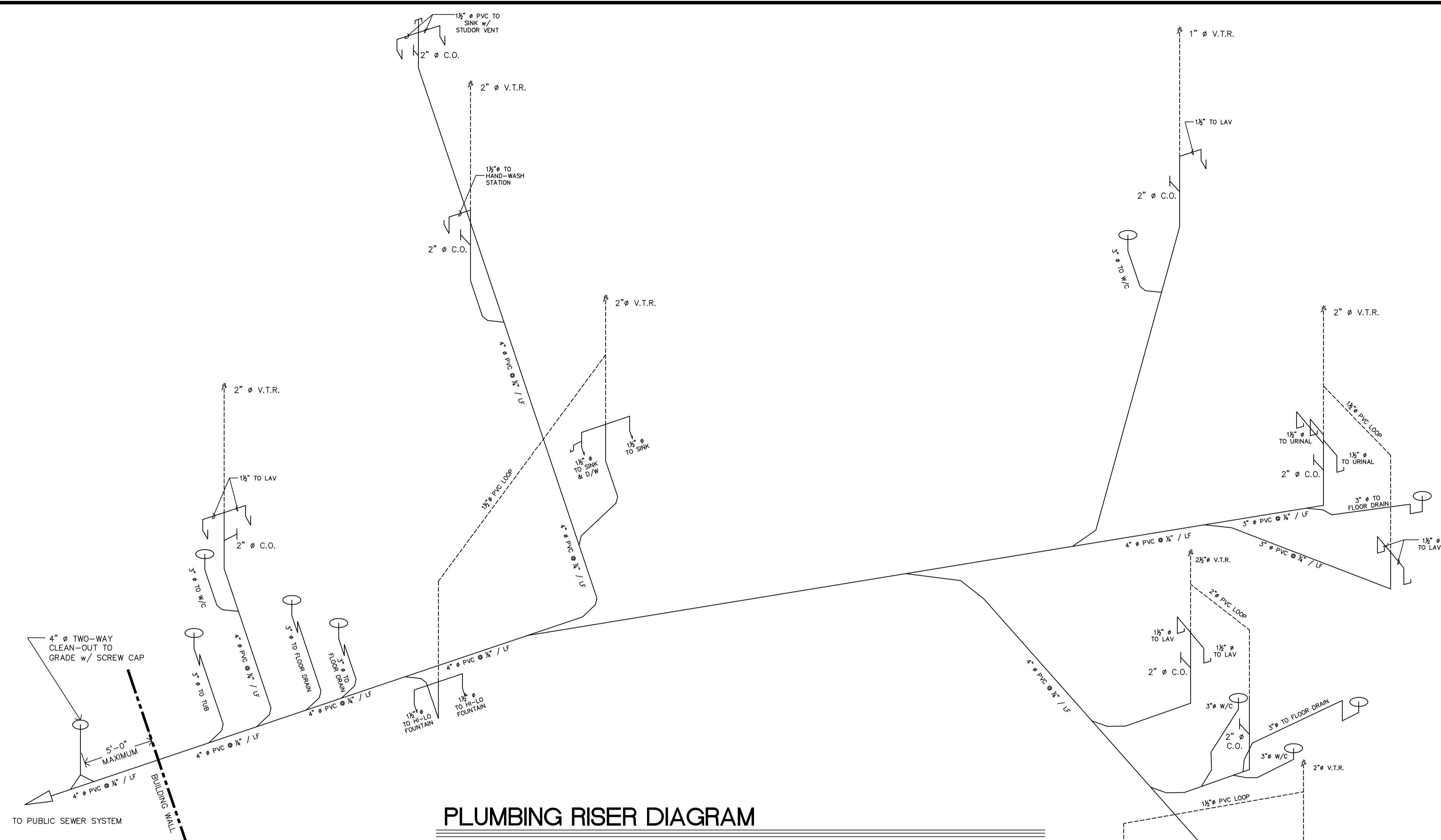
STEPHEN J. GAYDOSH
 PROFESSIONAL ENGINEER
 LICENSE NO. 38464
 STATE OF FLORIDA
 EXPIRES 12/31/2010
 100 EAST PALM BLVD., SUITE 200
 WEST PALM BEACH, FLORIDA 33411
 TEL: (561) 835-1100 FAX: (561) 835-1101

CLUBHOUSE FACILITY :
HVAC DETAILS + CALCS.
AZTEC RESORT
MARGATE, FLORIDA

DRAWN BY :
 B. TUCKER
 CHECKED BY :
 S. GAYDOSH
 DATE :
 FEBRUARY - 2010
 SCALE :
 3/16" = 1'-0" U.N.O.
 JOB NUMBER(S) :
 090404
 DRAWING

S-2.9
 SHEET
 12 OF 15 SHEETS

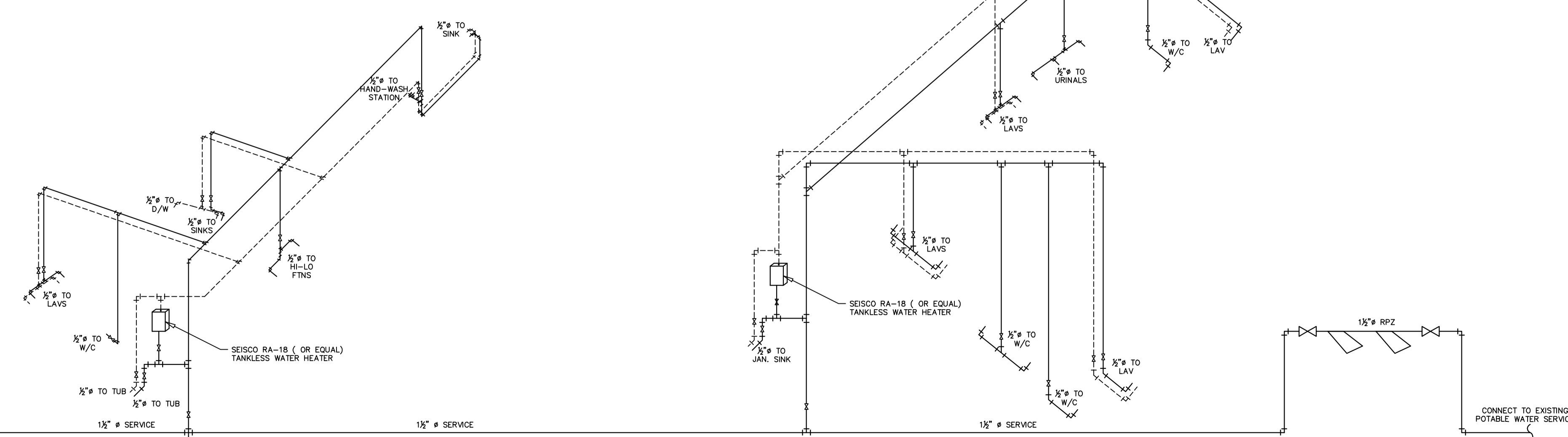
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PLUMBING RISER DIAGRAM

CONCEPTUAL RISER DIAGRAM

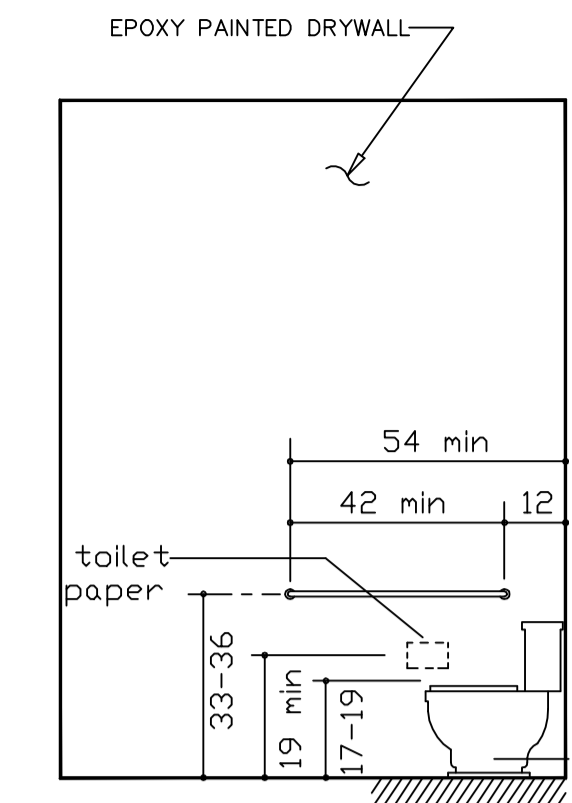
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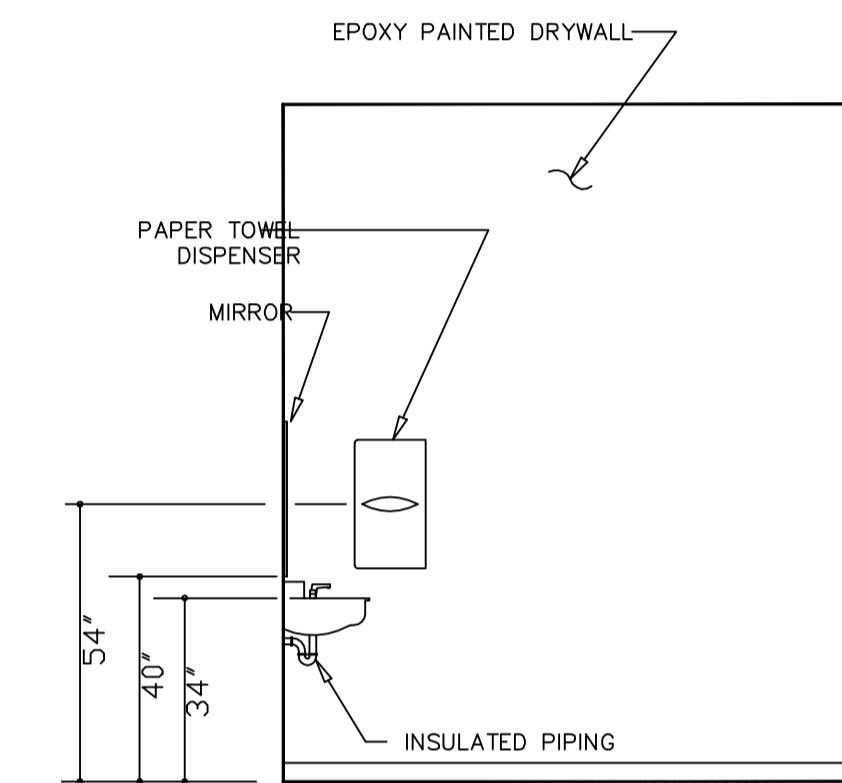
COLD WATER ISOMETRIC

CONCEPTUAL RISER DIAGRAM

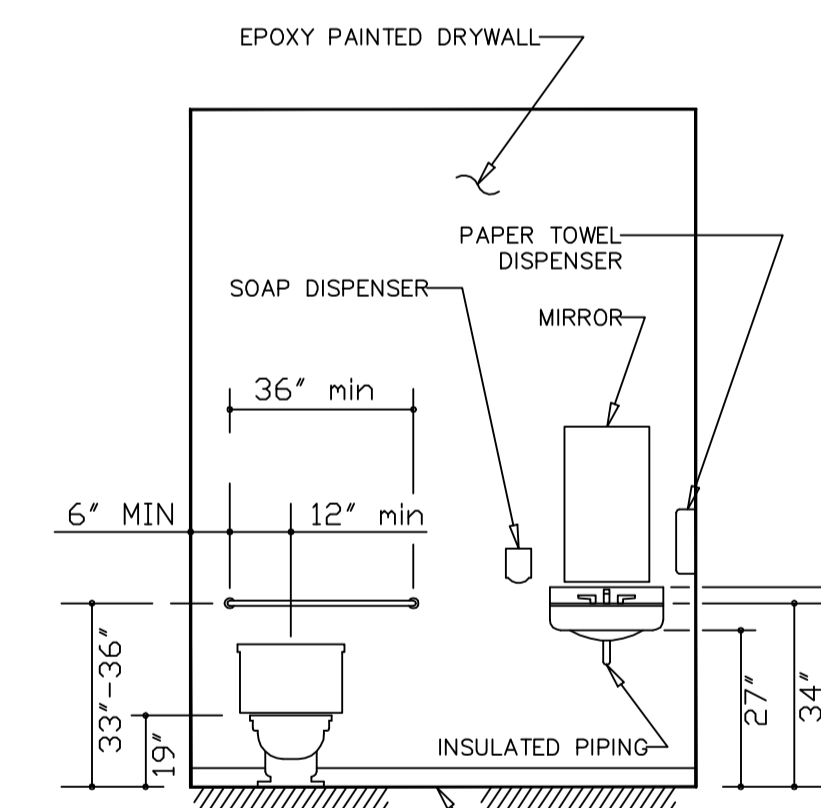
SCALE : N.T.S.



Side Wall
Grab Bars at
Water Closets



Side Wall
Sink Dimensions



Back Wall
Grab Bars at
Water Closets

NEW ADA ACCESSIBLE BATHROOM

WALL LAYOUT FOR EQUIPMENT

SCALE : N.T.S.

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CONSULTING ENGINEERS, ARCHITECTS, PLANNERS
10000 W. BOULEVARD, SUITE 200, BOCA RATON, FL 33433
TEL: (561) 368-1100 FAX: (561) 368-1101

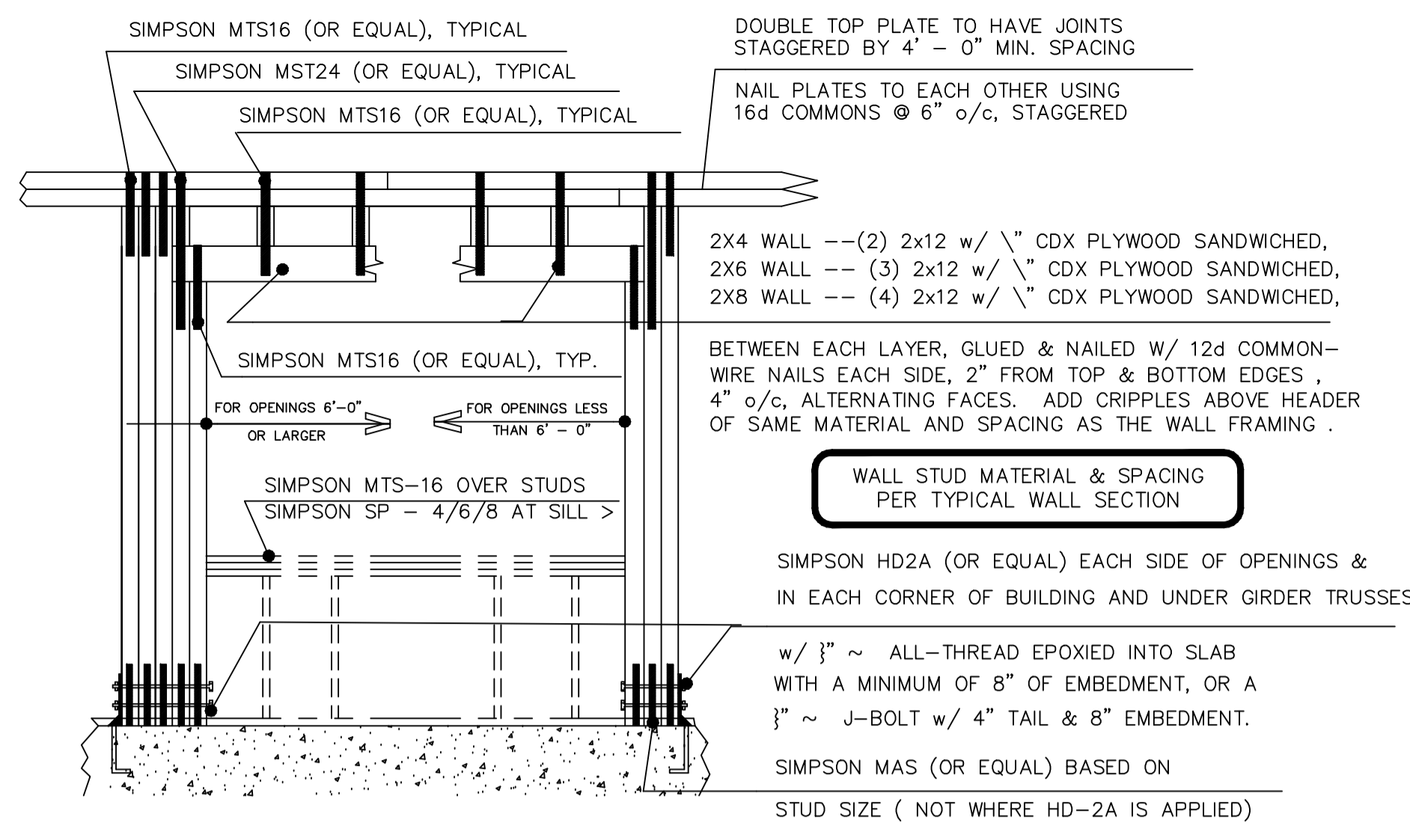
MARGATE OFFICE
3825 N. COMMERCE PARKWAY
MARGATE, FLORIDA 32063
TEL: (904) 278-4779 FAX: (904) 278-4779

ORLANDO OFFICE
14 E. WASHINGTON AVE., SUITE #200
ORLANDO, FL 32801
TEL: (407) 391-1845 FAX: (407) 391-2706

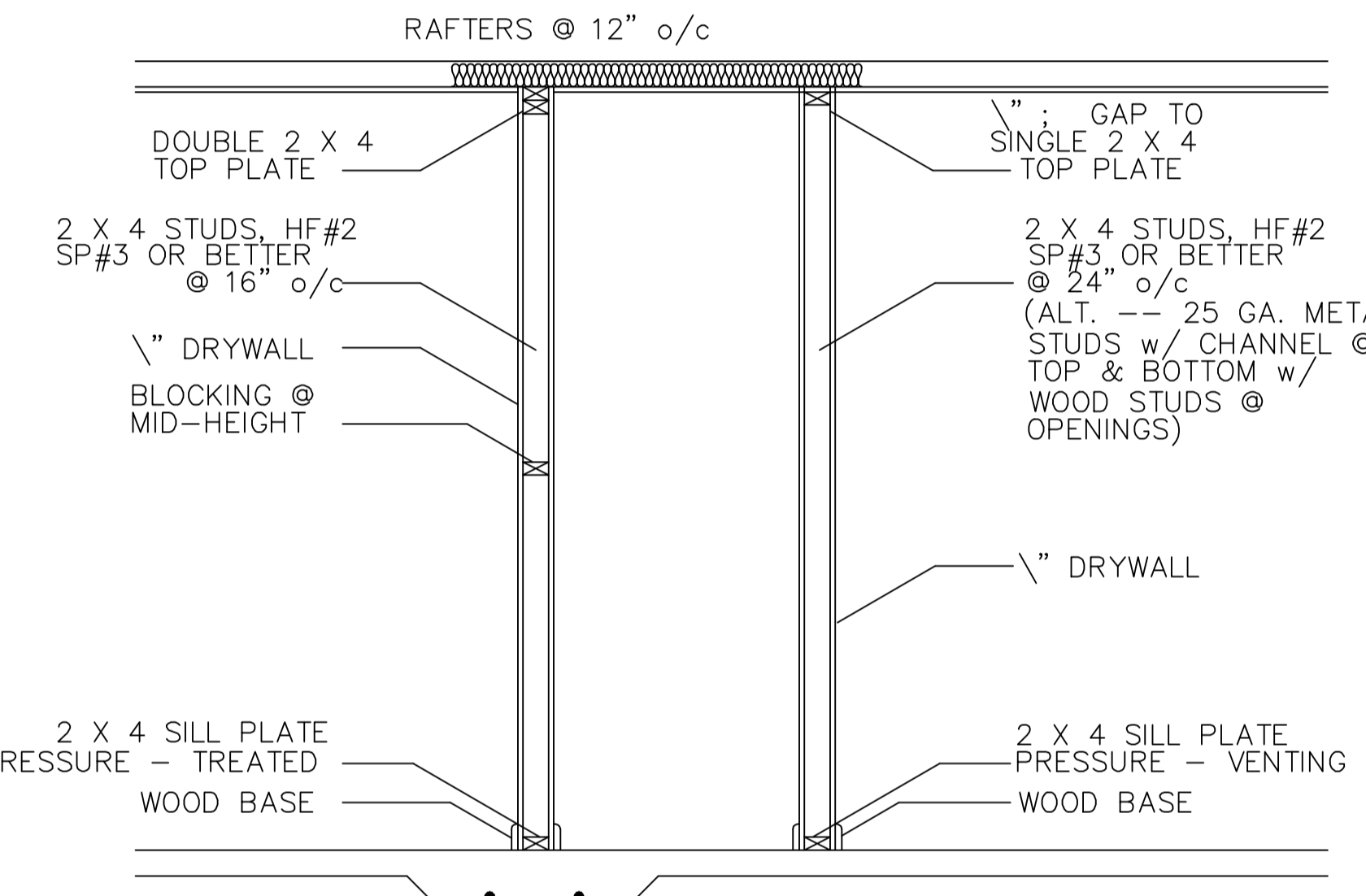
STEPHEN GAYDOSH
PROFESSIONAL ENGINEER
FLORIDA
LICENSE NO. 38464
STATE OF FLORIDA
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 08/31/2010
PE - FLORIDA # 38464

CLUBHOUSE FACILITY :
MISC. DETAILS + ISOMETRICS
AZTEC RESORT
MARGATE, FLORIDA

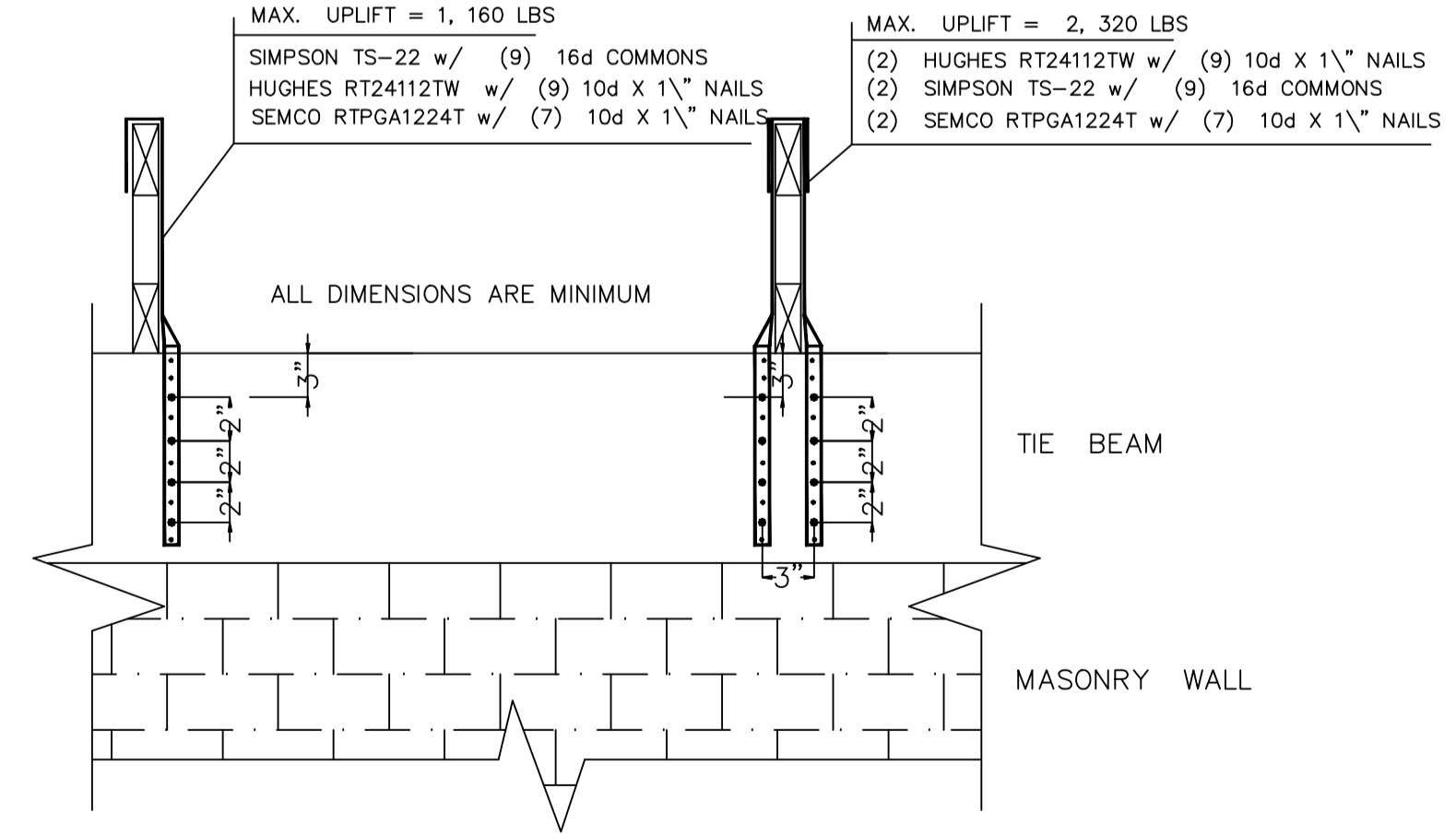
DRAWN BY :
B. TUCKER
CHECKED BY :
S. GAYDOSH
DATE :
FEBRUARY - 2010
SCALE :
3/16" = 1'-0" U.N.O.
JOB NUMBER(S) :
090404
DRAWING



TYPICAL WALL FRAMING
NOT TO SCALE
DOOR OPENINGS FOR NEW ADDITIONS ONLY



SEE FOUNDATION PLAN
INTERIOR WALL SECTION
BEARING & NON-BEARING
SCALE : N. T. S.

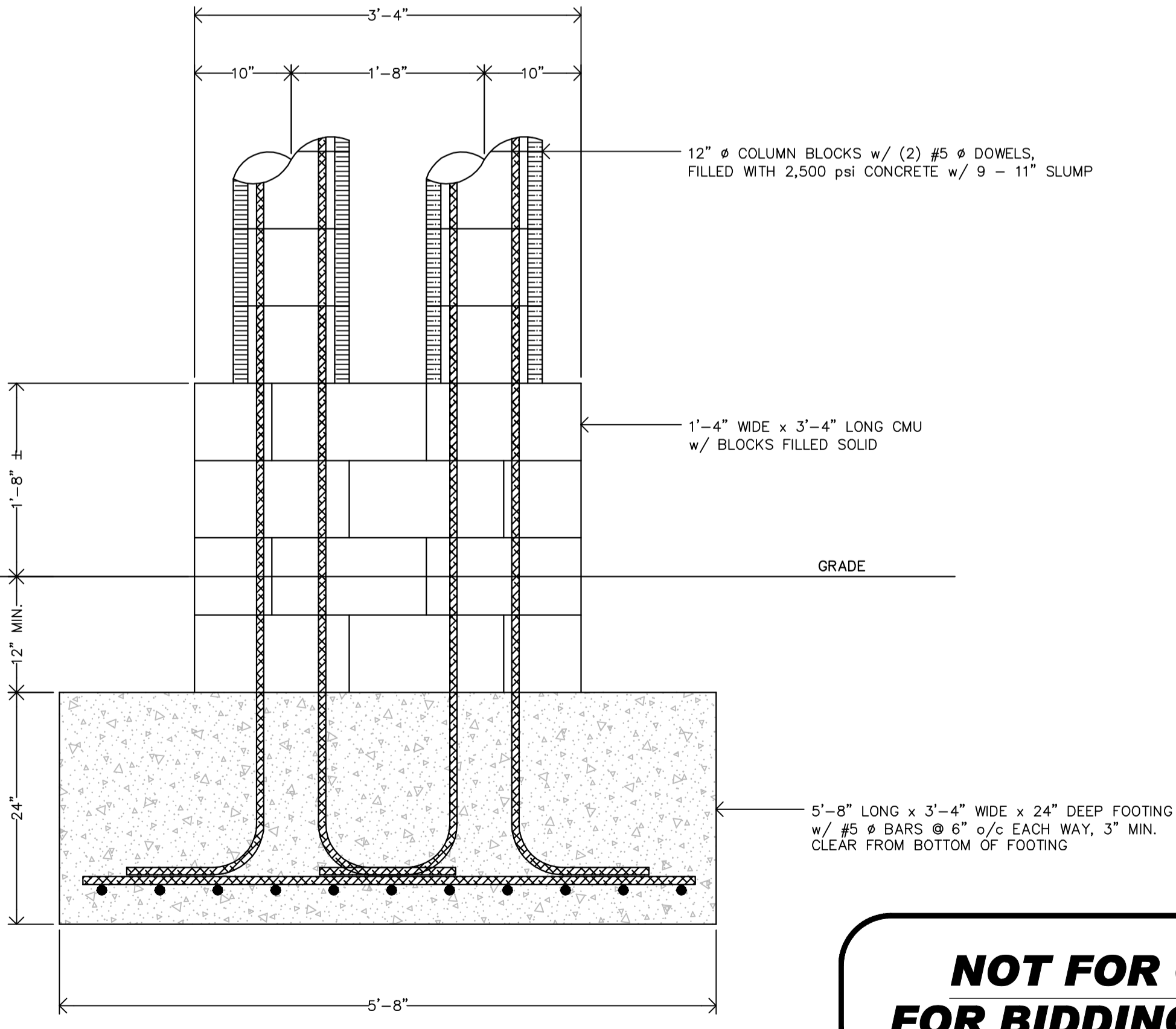
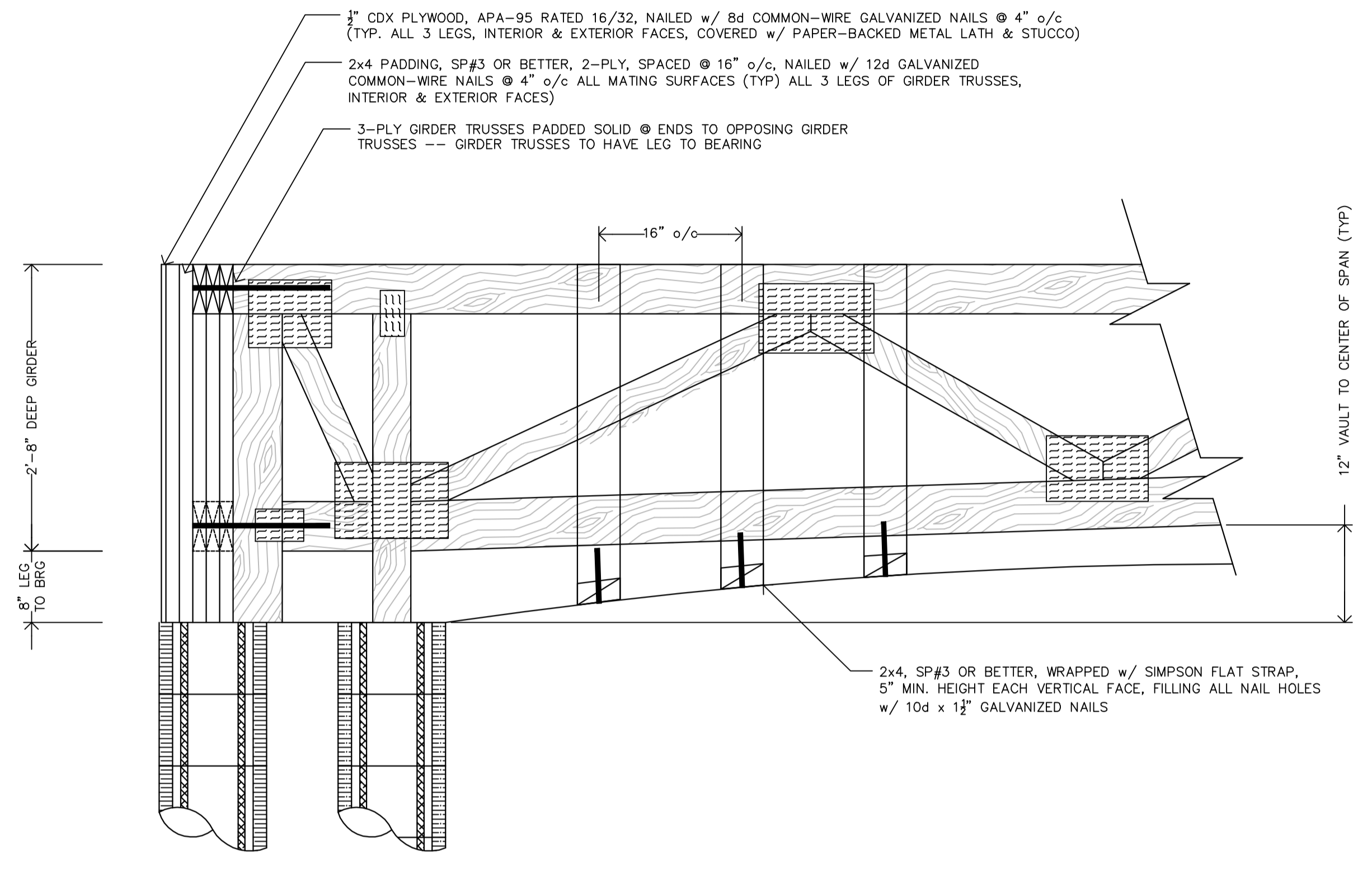


TAPCON STRAPPING DETAIL
MISSING / MISLOCATED EMBEDDED STRAPS / ATTACH TO EXIST. WALL
SCALE : N. T. S.

TAPCONS SHOULD START AT THE TOP OF THE WALL AND BE INSTALLED TOWARD THE BOTTOM OF THE TIE BEAM, INSTALLING THE NUMBER OF TAPCONS REQUIRED TO RESIST THE UPLIFT PER THE ROOF FRAMING PLAN. IF THE ACTUAL UPLIFT LOADS FOR ONE STRAP ARE TOO LARGE FOR THE SINGLE STRAP W/ A MAXIMUM OF 4 TAPCONS, INSTALL TWO (2) STRAPS PER THE DETAIL, MAINTAINING THE REQUIRED MINIMUM DISTANCES SHOWN.

| TAPCON DESIGN VALUES | | | | | |
|----------------------|-------------------|-------------------|-------------------|----------------|-------------------------|
| CONCRETE LOADS | 2000 PSI CONCRETE | 4000 PSI CONCRETE | 6000 PSI CONCRETE | CONCRETE BLOCK | MISCELLANEOUS DATA |
| TENSION ALLOWABLE | 250 LBS | 275 LBS | 340 LBS | 200 LBS | 3/16" ~ w/ 1" EMBEDMENT |
| Shear Allowable | 290 LBS | 340 LBS | 350 LBS | 260 LBS | 3/16" ~ w/ 1" EMBEDMENT |
| TENSION ALLOWABLE | 290 LBS | 400 LBS | 440 LBS | 230 LBS | 1" ~ w/ 1" EMBEDMENT |
| Shear Allowable | 420 LBS | 550 LBS | 620 LBS | 330 LBS | 1" ~ w/ 1" EMBEDMENT |

- FRAMING**
- ALL WOOD FRAMING SHALL BE FABRICATED AND INSTALLED PER AITC AND TPI AND NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION.
 - ALL STRUCTURAL WOOD MEMBERS SHALL HAVE A MINIMUM EXTREME FIBER STRESS IN BENDING (Fb) = 1200 PSI.
 - PLYWOOD SHEATHING SHALL BE APA STRUCTURAL 1, GROUP 1 SIZE AND SPAN RATING AS SHOWN ON THE DRAWINGS. NAIL WITH 8d NAILS AT 6" O.C. ALONG PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS.
 - CONTRACTOR SHALL PROVIDE ALL FASTENING DEVICES NECESSARY AND SUITED FOR EACH APPLICATION. FASTENINGS SUBJECT TO MOISTURE SHALL BE HOT-DIP GALVANIZED TO ASTM A-153-80.
 - ALL METAL CONNECTIONS AND FABRICATIONS SHALL COMPLY WITH A.I.S.C. SPECIFICATIONS.
 - ALL WOOD MEMBERS EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY, CONCRETE OR SOIL SHALL BE PRESSURE TREATED.
 - ALL HEADERS TO BE NO. 2 SOUTHERN PINE OR EQUAL AND TO INCLUDE 1/2" PLYWOOD SPACER BETWEEN MEMBERS.
 - PROVIDE 2-16d NAILS AT 3" O.C. AT ALL HEADERS.
 - ALL STUDS TO BE STUD GRADE SOUTHERN PINE OR EQUAL EXCEPT LOAD BEARING STUDS, COLUMNS AND EXTERIOR WALL SUBJECT TO WIND TO BE SOUTHERN PINE NO. 2.
 - BEARING WALL NAILING PATTERN:
A) PLYWOOD: (FIELD) USE 10d NAILS AT 12" O.C. (EDGE) USE 10d NAILS AT 6" O.C.
B) GYPSUM: (FIELD) USE 5d NAILS AT 10" O.C. (EDGE) USE 5d NAILS AT 7" O.C.



FOOTING + COLUMN DESIGN
PORTE-COCHERE COLUMNS & FOOTINGS
SCALE : 1" = 1'-0"

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CARMAHAN-PROCTOR-CROSS, INC.
CONSULTING ENGINEERS - SURVEYORS - PLANNERS
14 E. WASHINGTON AVE., STE. #200
ORLANDO, FL 32801
TEL: (407) 397-2700
FAX: (407) 397-2700
CROSSING THE BOUNDARIES

MARGATE OFFICE
3825 N. COMPTON PARKWAY
MARGATE, FLORIDA 32063
TEL: (904) 453-3900
FAX: (904) 453-3900

PORT ST. LUCE OFFICE
1848 SE PORT ST. LUCE BLVD.
PORT ST. LUCE, FL 34952-5646
TEL: (888) 237-8875
FAX: (888) 237-8875

STEPHEN GAYDOSH
No. 38464
STATE OF FLORIDA
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 12/31/2010

CLUBHOUSE FACILITY :
MISCELLANEOUS DETAILS
AZTEC RESORT
MARGATE, FLORIDA

DRAWN BY :
B. TUCKER
CHECKED BY :
S. GAYDOSH
DATE :
FEBRUARY - 2010
SCALE :
3/16" = 1'-0" U.N.O.
JOB NUMBER(S) :
090404
DRAWING

S-2.12

SHEET
15 OF 15 SHEETS