CAR WASH FACILITY

for RIGSBY ENTERPRISES, LLC.

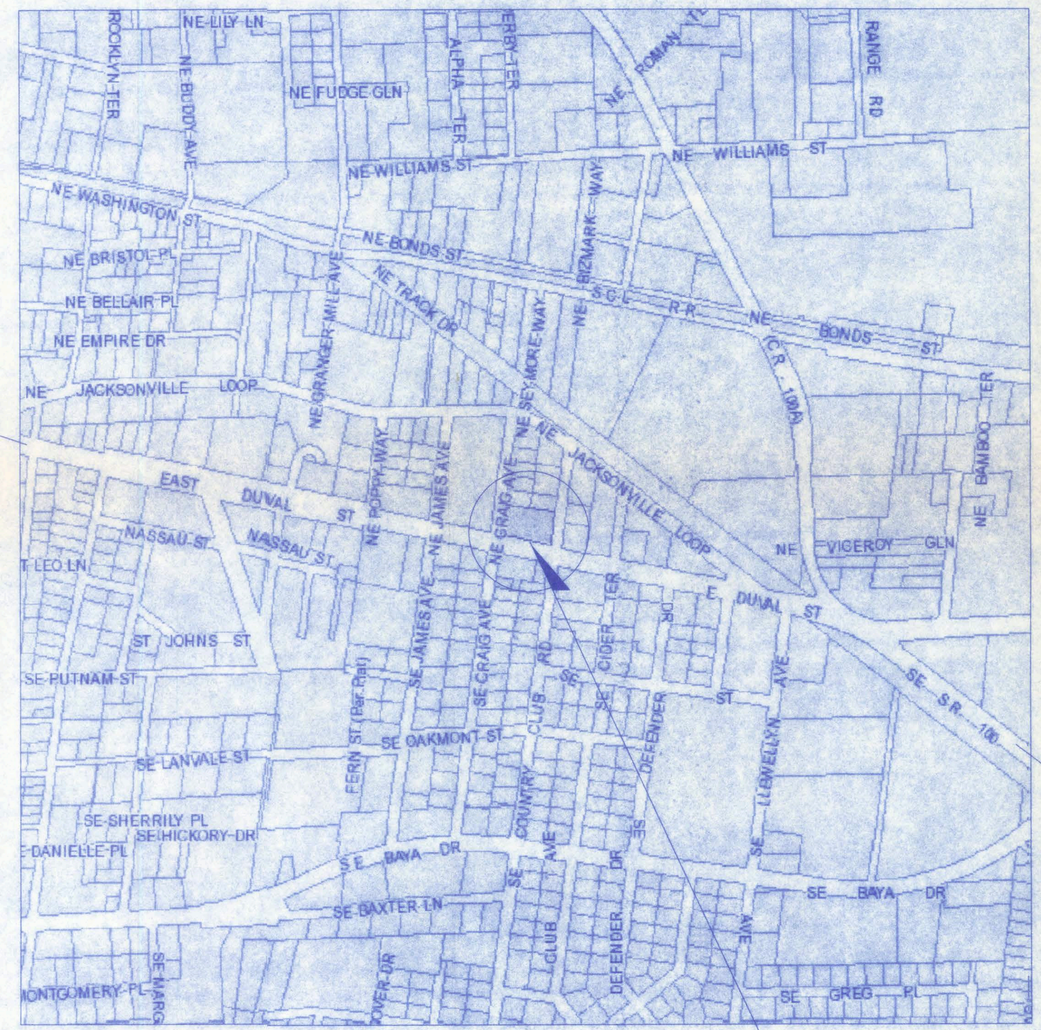
HWY 90 E, LAKE CITY, FLORIDA

INDEX OF DRAWINGS

Development Information:

RIGSBY ENTERPRISES, LLC.
CAR WASH FACILITY
BLK 1, HIGHLAND ESTATES S/D
NEW BUILDING & ASSOCIATED LOTS & DRIVES
1.0074± ACRES
PROJECT LOCATION: US HWY 90
LAKE CITY, COLUMBIA COUNTY, FLORIDA
PARCEL IDS: # 33-3S-17-06510-000
ZONING: CI (COMMERCIAL INTENSIVE)
FUTURE LAND USE PLAN MAP CATEGORY: CI, CG

VICINITY MAP
N.T.S.



LOCATION MAP
N.T.S.

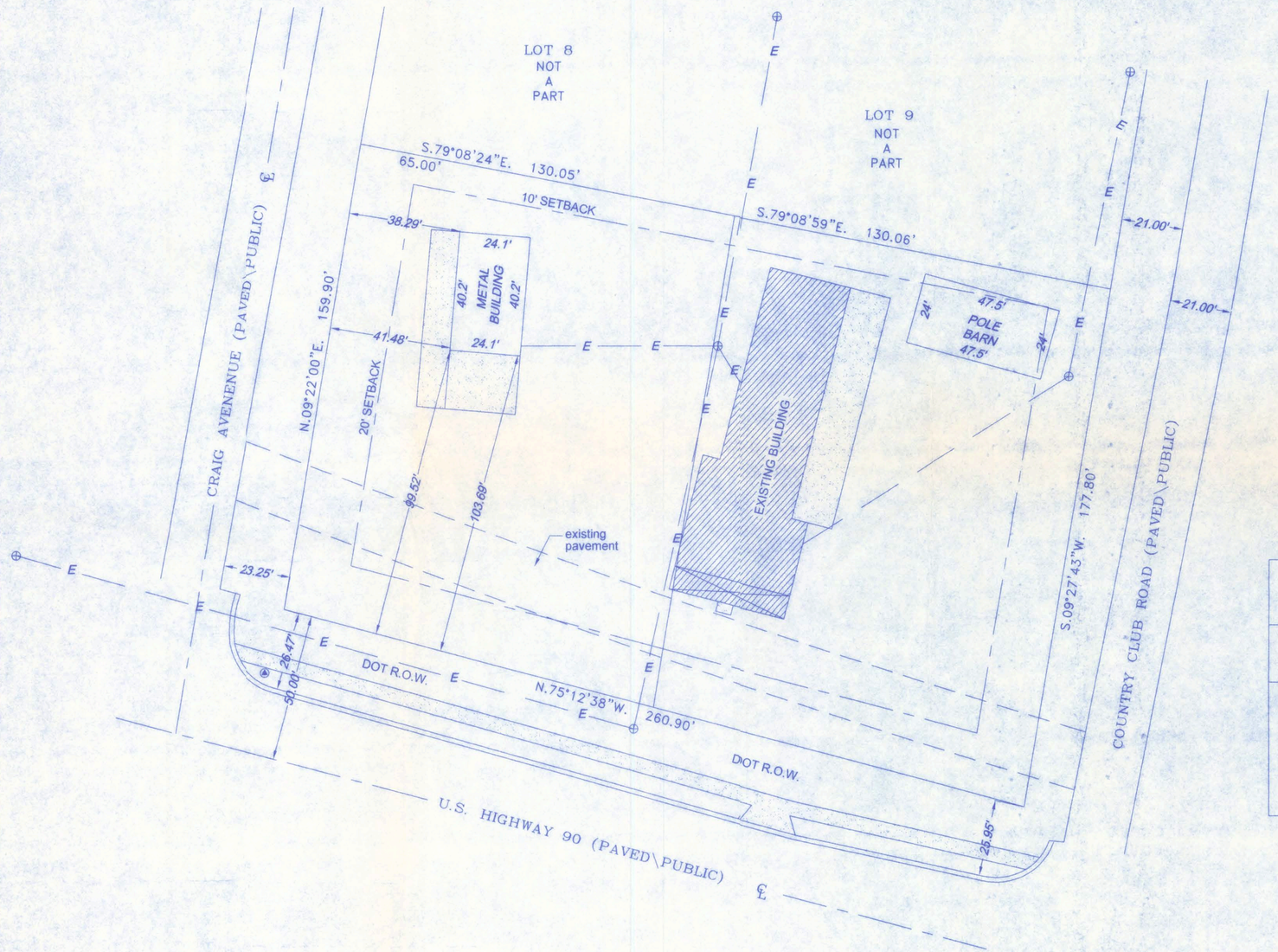
PLANS PREPARED FOR:

WILL & JOHN RIGSBY
RIGSBY ENTERPRISES, LLC.
LAKE CITY, FLORIDA 32055
(386)

ENGINEER AND PLANNER:

Freeman Design Group Inc
161 N.W. MADISON STREET
SUITE #102
LAKE CITY, FL. 32055
(386) 758-4209
CERTIFICATE OF AUTHORIZATION # 00008701

William H. Freeman
10/9/07
PE# 56001



SITE PLAN

SCALE: 1" = 20'

EXISTING SITE DATA
RIGSBY ENTERPRISES, LLC.

PROJECT:	COMMERCIAL FACILITY (CAR WASH)
LEGAL DESCRIPTION:	SEE ATTACHED SURVEY
ZONING:	COMMERCIAL INTENSIVE

TOTAL CONTRIBUTING AREA:	43,881.9862 SF	1.0074 AC.	100.000 %
TOTAL EXISTING IMPERVIOUS:	12,760.4500 SF	0.2929 AC.	29.075 %
CONC/ASPHALT AREAS:	7,490.8050 SF	0.1720 AC.	17.074 %
EXISTING BUILDINGS:	5,269.6450 SF	0.1210 AC.	12.011 %
TOTAL PERVIOUS AREAS:	31,121.5362 SF	0.7144 AC.	70.925 %
GRASSY AREAS:	31,121.5362 SF	0.7144 AC.	70.925 %

RIGSBY ENTERPRISES
CAR WASH FACILITY

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

Freeman Design Group, Inc.

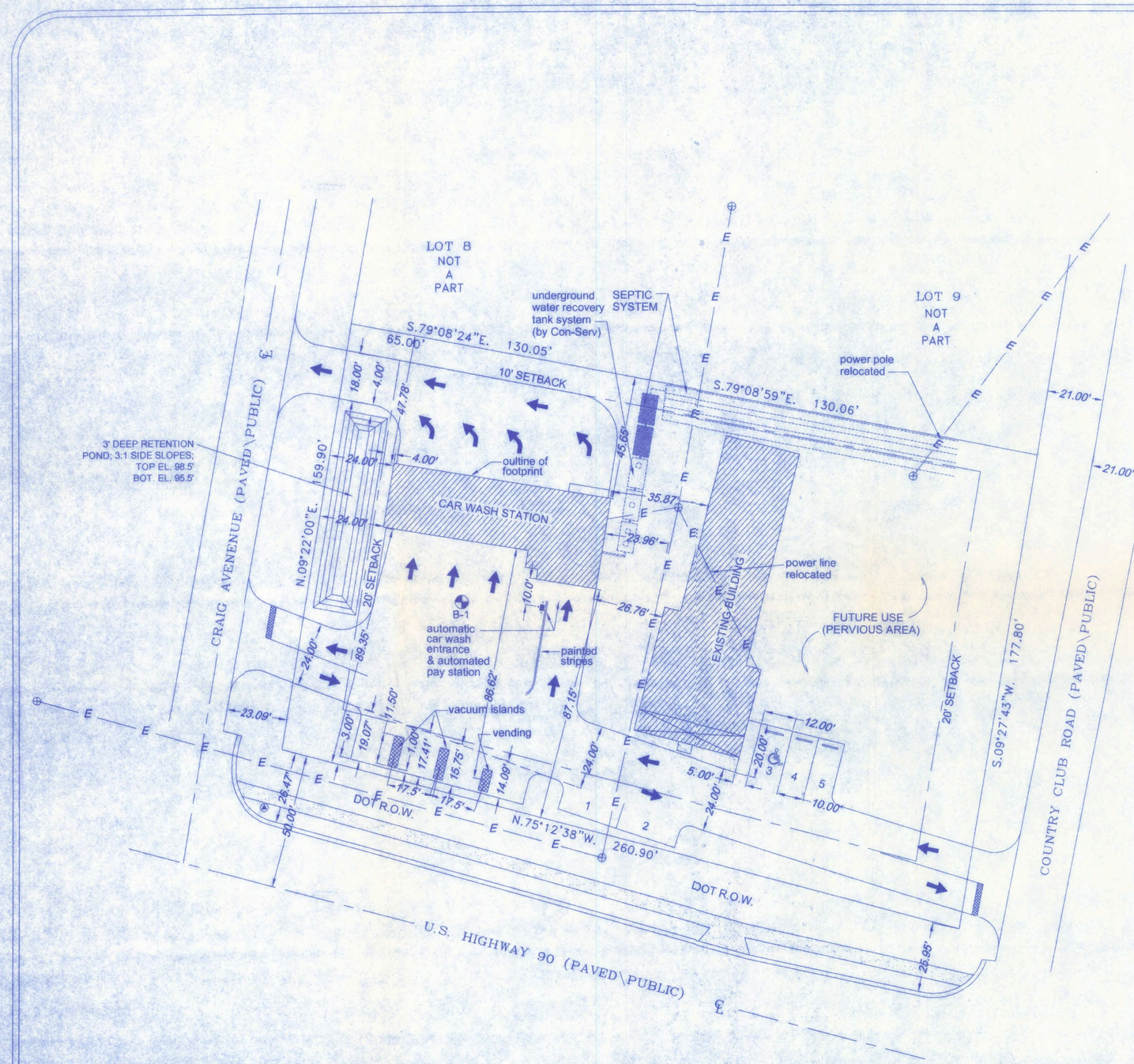
CERTIFICATE OF AUTHORIZATION # 00008701

DATE 10/08/07	DRAWN BY J.T.D.
	APPROVED W.H.F.

REVISIONS

SHEET SP-1
OF 2

PROJECT NO. 07.C025



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SITE PLAN

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RIGSBY ENTERPRISES, LLC.

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ZONING:	COMMERCIAL INTENSIVE

TOTAL CONTRIBUTING AREA:	43,881.9862 SF	1.0074 AC.	100.000 %
TOTAL IMPERVIOUS AREA:	21,830.9995 SF	0.5012 AC.	49.752 %
CONC/ASPHALT:	15,873.7084 SF	0.3644 AC.	36.172 %
BUILDINGS:	5,957.2911 SF	0.1368 AC.	13.580 %
TOTAL PERVIOUS AREA:	22,050.9867 SF	0.5062 AC.	50.248 %
GRASSY/RETENTION AREA:	22,050.9867 SF	0.5062 AC.	50.248 %

NEW IMPERVIOUS AREA: 9,070.5500 SF 0.2082 AC.

NEW IMPERVIOUS AREA TOTAL (21,830.9995 SF) LESS THE EXISTING IMPERVIOUS AREA (12,760.4500) EQUALS THE ADDITIONAL AMOUNT OF IMPERVIOUS AREA ADDED, OR 9,070.5500 SF, WHICH IS LESS THAN 1/4 AC. WE HAVE DESIGNED A RETENTION AREA TO HANDLE THE FIRST 2" OF RUN-OFF FROM THIS NEW IMPERVIOUS AREA.

RETENTION AREA REQUIRED:
= (2/12)*9,070.55 SF = 1,511.76 CF

RETENTION AREA PROVIDED:
= (DEPTH) * ((TOP AREA + BOT AREA)/2)
= 3 * (1183.06 + 247.22)/2
= 2,145.42 CF

POND SPECIFICATIONS:

74' LONG x 16' WIDE
3:1 SIDE SLOPES
TOP EL. = 98.5'
BOT. EL. = 95.5'

William H. Freeman 10/10/07 P.E. # 56001

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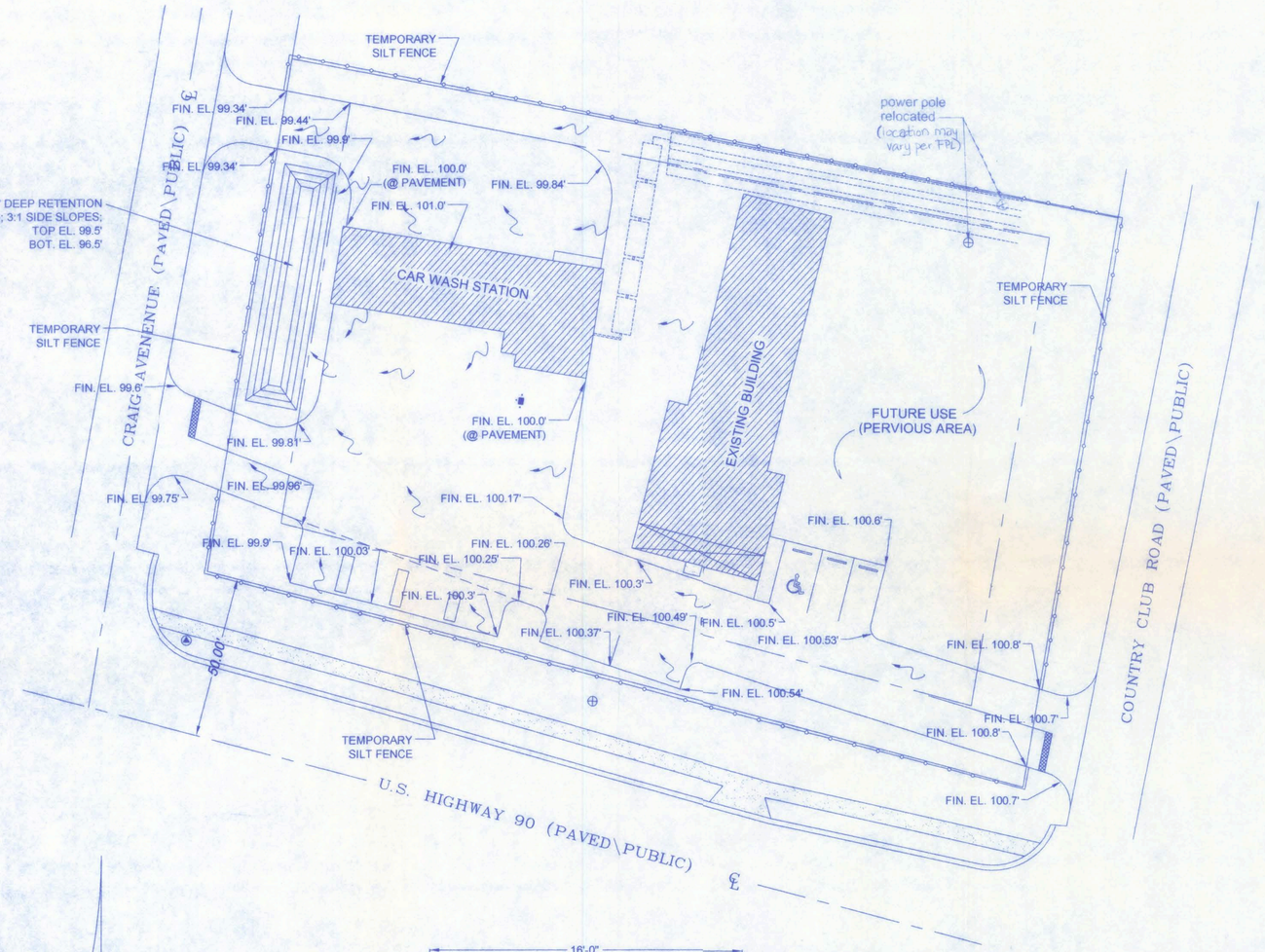
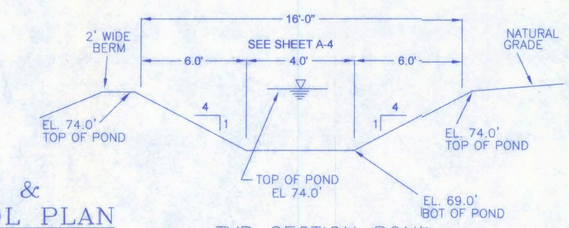
SHEET SP-2 OF 2

PROJECT NO. 07.C025



GRADING/EROSION & SEDIMENT CONTROL PLAN

SCALE: 1" = 20'



TYP. SECTION, POND A

N.T.S.

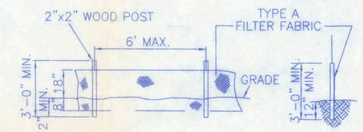
EROSION & SEDIMENT CONTROL NOTES

OPERATION AND MAINTENANCE PLAN

1. HAY BALES AND TEMPORARY GRASS SEED SHALL BE PLACED AS NEEEDED 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.

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.



TEMPORARY SILT FENCE DETAIL

NTS

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	APPROVED W.H.F.

REVISIONS

SHEET GP-1 OF 1

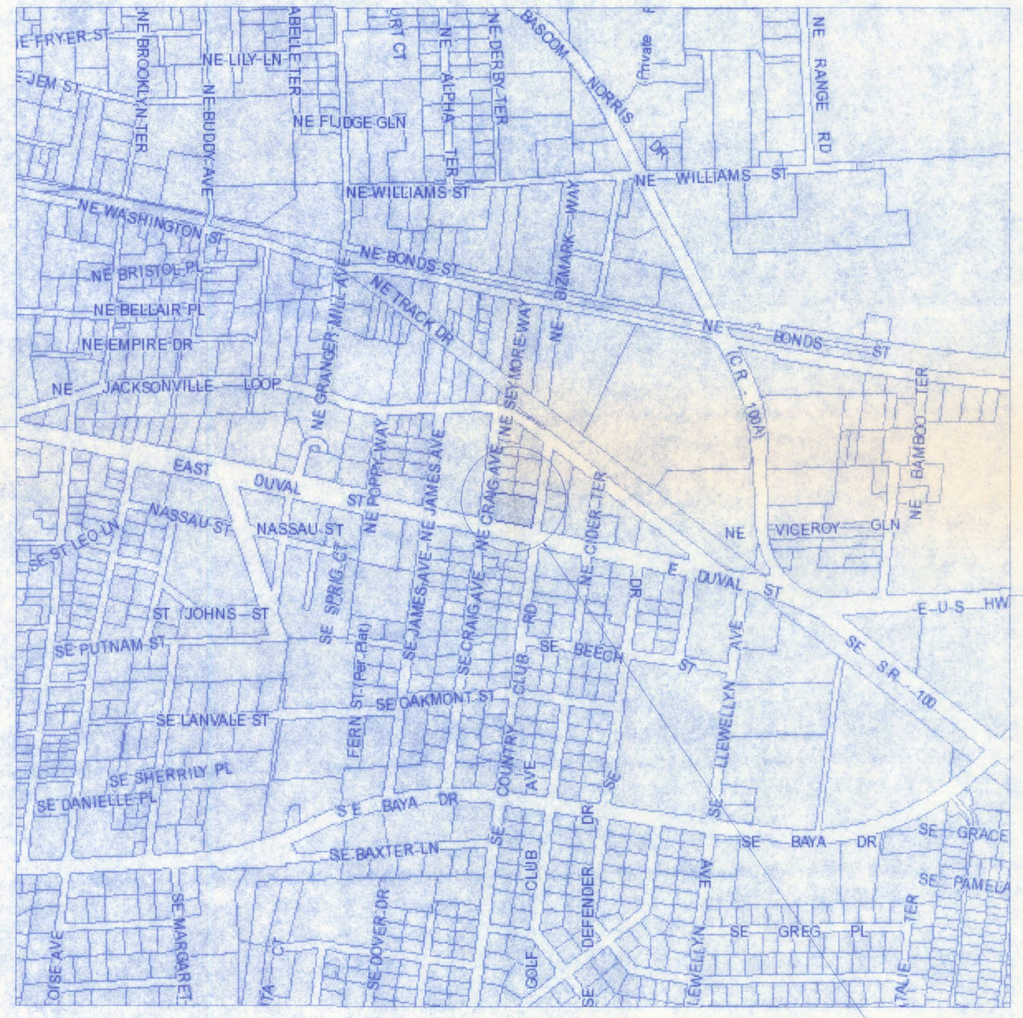
PROJECT NO. 07.C025

RIGSBY ENTERPRISES, LLC.
CAR WASH FACILITY

LAKE CITY, FLORIDA

INDEX OF SHEETS

TO LIVE OAK



TO OLUSTEE

PROJECT LOCATION

LOCATION MAP

PLANS PREPARED FOR:

RIGSBY ENTERPRISES, LLC.
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PLANS PREPARED BY:

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William H. Freeman
8/30/07
REG# 56 001

GENERAL NOTES

DESIGN CRITERIA

D1 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
2004 FLORIDA BUILDING CODE, MECHANICAL
2004 FLORIDA BUILDING CODE, PLUMBING
2006 FLORIDA FIRE PREVENTION CODE
2005 NATIONAL ELECTRIC CODE.

D2 DESIGN LOAD VALUES:

ROOF LIVE LOADS	20 PSF
ROOF DEAD LOADS	10 PSF
FLOOR LIVE LOADS	40 PSF
FLOOR DEAD LOADS	20 PSF
ASSUMED ALLOWABLE SOIL BEARING CAPACITY	2000 PSF

D3 THE STRUCTURAL PLANS AND WIND SPEED HAVE BEEN DESIGNED IN ACCORDANCE WITH SECTION 1609 OF THE FLORIDA BUILDING CODE 2004 EDITION, w/2006 REVISIONS.

GENERAL

G1 THE GENERAL CONTRACTOR SHALL REVIEW AND DETERMINE THAT DIMENSIONS ARE COORDINATED BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION OR START OF CONSTRUCTION.

G2 THE GENERAL CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, THE WORK PERSONS, AND OTHER PEOPLE DURING CONSTRUCTION. HE SHALL SUPERVISE AND DRECT THE WORK AND BE RESPONSIBLE FOR ALL CONSTRUCTION & FOR ALL JOBSITE SAFETY.

G3 NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED, OR OTHERWISE REDUCED IN STRENGTH.

G4 THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ANCHORED, EMBEDDED AND SUPPORTED ITEMS WHICH AFFECT THE STRUCTRAL DRAWINGS AND NOTIFY THE ARCHITECT/ENGINEER ON ANY DISCREPANCIES

G5 ANY SUBMITTALS RECEIVED BY A/E THAT HAVE NOT BEEN CHECKED BY THE GC AND HIS SUBCONTRACTOR SHALL BE RETURNED WITHOUT REVIEW.

G6 ALL SECTIONS AND DETAILS SHALL BE CONSTRUED TO BE TYPICAL OR SIMILAR UNLESS ANOTHER SECTION OR DETAIL IS NOTED.

G7 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION, INCLUDING FABRICATION. ALL DISCREPANCIES SHALL BE REPORTED TO THE A/E FOR RESOLUTION.

FOUNDATIONS

F1 A GEOTECHNICAL REPORT FOR THIS PROJECT WAS NOT PROVIDED BY THE OWNER. THESE PLANS ARE BASED UPON AN ASSUMED ALLOWABLE BEARING CAPACITY OF 2000 PSF. AT THE OWNER'S REQUEST, THE CONTRACTOR SHALL ENGAGE A QUALIFIED AND CERTIFIED GEOTECHNICAL ENGINEER TO DETERMINE THE ALLOWABLE SOIL BEARING CAPACITY. A COPY OF THE REPORT SHALL BE PROVIDED TO THE A/E. IF THE DETERMINED ALLOWABLE BEARING CAPACITY IS LESS THAN THE ASSUMED VALUE, MODIFICATIONS TO THE FOUNDATIONS MAY BE REQUIRED.

F2 THE GEOTECHNICAL ENGINEER SHALL MAKE A FIELD INVESTIGATION TO DETERMINE IF ANY SOIL CONDITIONS ARE PRESENT THAT MAY ADVERSELY AFFECT THE PROJECT. THE CONTRACTOR SHALL REMOVE ALL SUCH MATERIAL AND REPLACE IT WITH APPROVED FILL.

F3 SUBGRADE UNDER FOOTINGS AND SLABS SHALL BE COMPACTED TO AT LEAST 98% OF THE MODIFED PROCTOR MAXMIMUM DRY DENSITY (ASTM D1557). SUBMIT DENSITY TESTS TO THE A/E

SLABS ON GRADE

S1 PROVIDE 6 MIL POLYETHYLENE SHEETING UNDER ALL SLABS ON GRADE.

S2 PROVIDE CONTRO. JOINTS (1/4" WIDE BY 3/8" DEEP) [MAY OR MAY NOT BE INDICATED ON PLAN]. FILL JOINTS WITH POURED RUBBER. IF JOINTS ARE SAWCUT, SAWCUTTING MUST BE DONE THE SAME DAY THE CONCRETE IS PLACED.

S3 PROVIDE 1/2" EXPANSION JOINTS AT ALL LOCATIONS WHERE SLABS ABUT STRUCTURES (WALLS, COLUMNS, ETC.)

CONCRETE AND REINFORCING

C1 AT THE OWNER'S REQUEST, THE GENERAL CONTRACTOR SHALL ENGAGE A CERTIFIED TESTING AGENCY TO PERFORM INDUSTRY STANDARD TESTING INCLUDING SLUMP TESTS AND CYLINDER BREAKS TO ENSURE CONFORMANCE WITH PLANS. SUBMIT REPORTS TO A/E.

C2 CONCRETE WORK & MIX DESIGN SHALL CONFORM TO ACI 301 (LATEST EDITION) "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". MIXING SHALL BE IN ACCORDANCE WITH ASTM C94

C3 MINIMUM 28-DAY COMPRESSIVE STRENGTH:

FOOTINGS AND TIE BEAMS	2,500 PSI
COLUMNS AND SLABS	2,500 PSI

C4 SPLICES OF REINFORCING (EXCEPT AS SHOWN ON PLANS)

#4 BARS	20 INCHES
#5 BARS	27 INCHES
WELDED WIRE MESH	6"

C5 AT ALL CORNERS OF TIE BEAMS AND WALL FOOTINGS, PROVIDE CORNER BARS (30 INCH MINIMUM LEGS) TO MATCH HORIZONTAL BARS.

C6 REINFORCING BARS SHALL CONFORM TO ASTM A615-96a GRADE 40. WELDED WIRE MESH SHALL CONFORM TO ASTM A-185. LAP WELDED WIRE MESH ON MESH + 2" WHERE SPLICED.

C7 MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHEWISE NOTED.

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

PRE-FABRICATED WOOD TRUSSES

WT1 GENERAL CONTRACTOR SHALL ENGAGE A CERTIFIED TESTING AGENCY TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS. SUBMIT REPORTS TO A/E.

WT2 WOOD TRUSSES SHALL BE DESIGNED, SIGNED & SEALED BY A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA. TRUSSES SHALL BE FABRICATED IN CONFORMANCE WITH THE THE "QUALITY CONTROL MANUAL" BY THE TRUSS PLATE INSTITUTE (TPI).

WT3 HANDLING, ERECTION AND BRACING OF WOOD TRUSSES SHALL BE IN ACCORDANCE WITH "HANDLING AND ERECTING WOOD TRUSSES" (HET80) AND "BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS" (BWT-76) BY THE TRUSS PLATE INSTITUTE (TPI).

WT4 PERMANENT BRACING SHALL BE INDICATED IN THE TRUSS LAYOUT DRAWINGS AND SHALL BE SUPPLIED AND INSTALLED BY THE FRAMING CONTRACTOR.

WT5 TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS:

DEAD LOAD	10 PSF
LIVE LOAD	20 PSF
WIND	110 MPH

WT6 PRE-FABRICATED WOOD TRUSSES SHALL BE FABRICATED FROM SOUTHERN PINE (SPIB) KILN DRIED #2 GRADE OR BETTER FOR CHORD AND #3 GRADE OR BETTER FOR WEBS.

WT7 TRUSS BEARING SHALL BE 4" NOMINAL UNLESS NOTED OTHERWISE. BEARING LOCATIONS MUST BE MARKED ON TRUSS BY FABRICATOR TO INSURE PROPER INSTALLATION.

WT8 SHOP DRAWINGS SHALL BE SUBMITTED WHICH INDICATE DESIGN LOADS, DURATION FACTOR TRUSS LAYOUT, TRUSS CONFIGURATION AND TRUSS TO TRUSS CONNECTION. SHOP DRAWINGS SHALL SHOW PIECE MARKS, MEMBER SIZE AND GRADE AND CONNECTION DETAILS.

WT9 NO WANE KNOTS, SKIPS OR OTHER DEFECTS SHALL OCCUR IN THE PLATE CONTACT AREA OR SCARFED AREA OF WEB MEMBERS. PLATES SHALL BE CENTERED WITH ONE REQUIRED EACH SIDE OR TRUSS.

WT10 DESIGN OF METAL CONNECTED WOOD ROOF TRUSSES TO COMPLY WITH STANDARD BLDG. CODE NFPA'S "NATIONAL DESIGN SPECIFICATIONS FOR STRESS GRADED LMUBER AND ITS FASTENINGS", AND THE TRUSS PLATE INSTITUTE'S "DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES".

WT11 WOOD BLOCKING AT TRUSS BEARING SHALL BE LAP SPLICED 4'-0" MIN. AND NAILED WITH (20) 10d NAILS AT SPLICE, 10d NAILS @ 16" O.C. ELSEWHERE.

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)

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

ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS

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

8/30/07
P.E. #56001

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8/30/07	J.T.D.

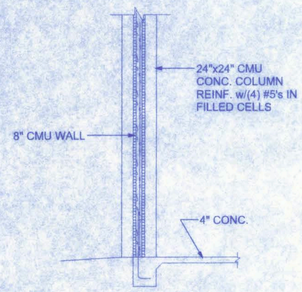
REVISIONS

SHEET A-1
OF 10

PROJECT NO.
07.C025

NOTE:
AS PER F.B.C. 1003.7.1, OIL SEPARATORS SHALL HAVE A DEPTH OF NO LESS THAN 2 FT BELOW THE INVERT OF THE DISCHARGE DRAIN, AND THE OUTLET OPENING OF THE SEPARATOR SHALL NOT HAVE LESS THAN AN 18 INCH WATER SEAL.

AS PER F.B.C. 1003.7.2 - [GARAGES AND SERVICE STATIONS (SEPARATORS REQUIRED)], SEPARATOR SHALL HAVE A MIN. CAPACITY OF 6 CUBIC FT. FOR THE 1ST 100 SF OF AREA TO BE DRAINED, PLUS 1 CUBIC FT FOR EACH ADDITIONAL 100 SF OF AREA TO BE DRAINED INTO THE SEPARATOR.



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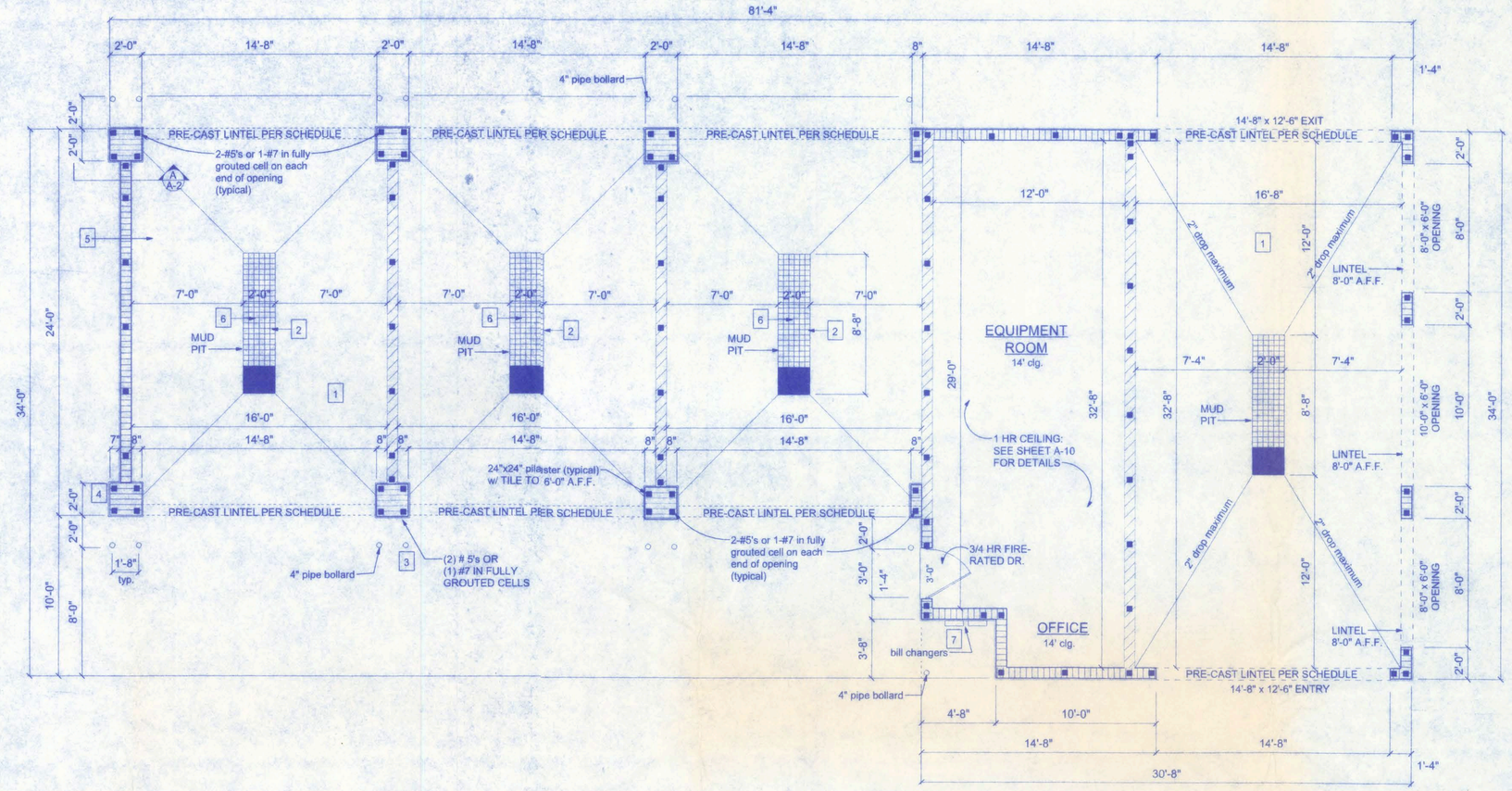
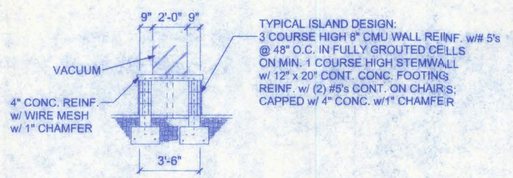


4" pvc pipe to in-ground storage tanks (reclamation system, by others)

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

AREA SUMMARY:
TOTAL UNDER ROOF 2,307 SF



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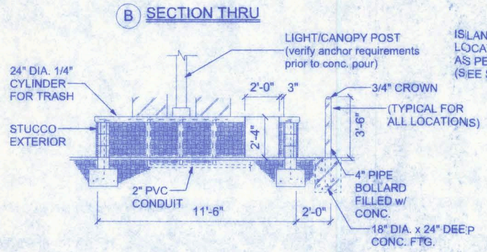

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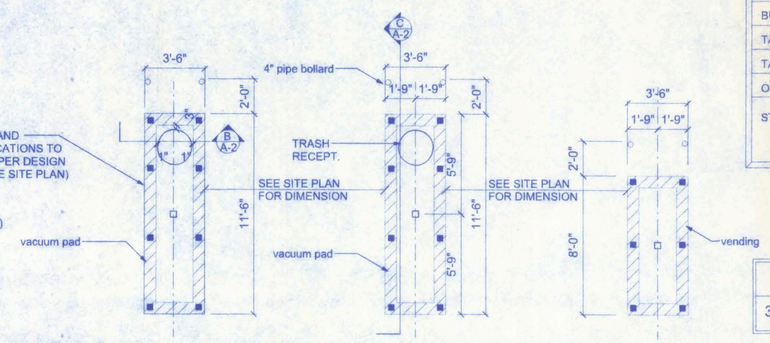

NOTE:
OVERALL DESIGN OF VACUUM ISLANDS MAY VARY: TYPICAL DESIGN AND LAYOUT SHOWN HERE: FINAL DESIGN MAY BE @ THE DISCRETION OF THE GENERAL CONTRACTOR OR CAR WASH DESIGNER; IF CHANGES ARE MADE, AS-BUILT PLANS ARE TO BE SUBMITTED TO THE PERMITTING AUTHORITY.

VACUUM ISLAND DETAILS

MATERIALS SCHEDULE

1. 4" thick cast-in-place concrete slab double broom finish surface. slope slabs evenly down from edges of drain.
2. robertson grating products, inc., (or equivalent) 2'-3" wide x 1 3/8" thickness h/d steel grate, w/ 4" x 1 3/8" spacing; grating style 22w4
3. 4" steel pipe, 5'-4" long. project 3'-6" above finish grade. fill top 6" of pipe with concrete grout and oval top finish. pour concrete foundation a minimum of 7" thick around base of pipe (see detail sheet A-3).
4. 8" concrete block with ceramic tile
5. prefabricated wood trusses @ 24" o.c.
6. boom and mounting plate by C.W.E. supplier. space center hat sections as shown to accomodate the boom plates.
7. coin meter enclosure and vault supplied with C.W.E. (or equiv.) vault is 8" x 16" $1,000 capacity (typ). mount top 5'-6" above slab. provide #4 rebar welded to sides of meter enclosure and safe at center line of wall. fill all voids in masonry within area of meter and vault solid with grout. (typical install; may vary based onowner's decision)

BUILDING USE, CLASSIFACATION & OCCUPANCY AS PER TABLES 500 & 1003.1, FLORIDA BUILDING CODE, 2001 ED.	
BUILDING GROUP OCCUPANCY	GROUP B
TABLE 500 TYPE OF CONSTRUCTION	TYPE VI - UNPRO.
TABLE 500 AREA/HEIGHT LIMITATIONS	9,000 SF/2 STORY
OCCUPANCY	
STORAGE AREA: 1:300 SF GROSS 408 SF / 300 = 1.36	2 OCCUPANTS

PRODUCT CODE	SIZE	COUNT
3068 EXT. STEEL, 3/4 HR FIRE RATED	3'-0"	1

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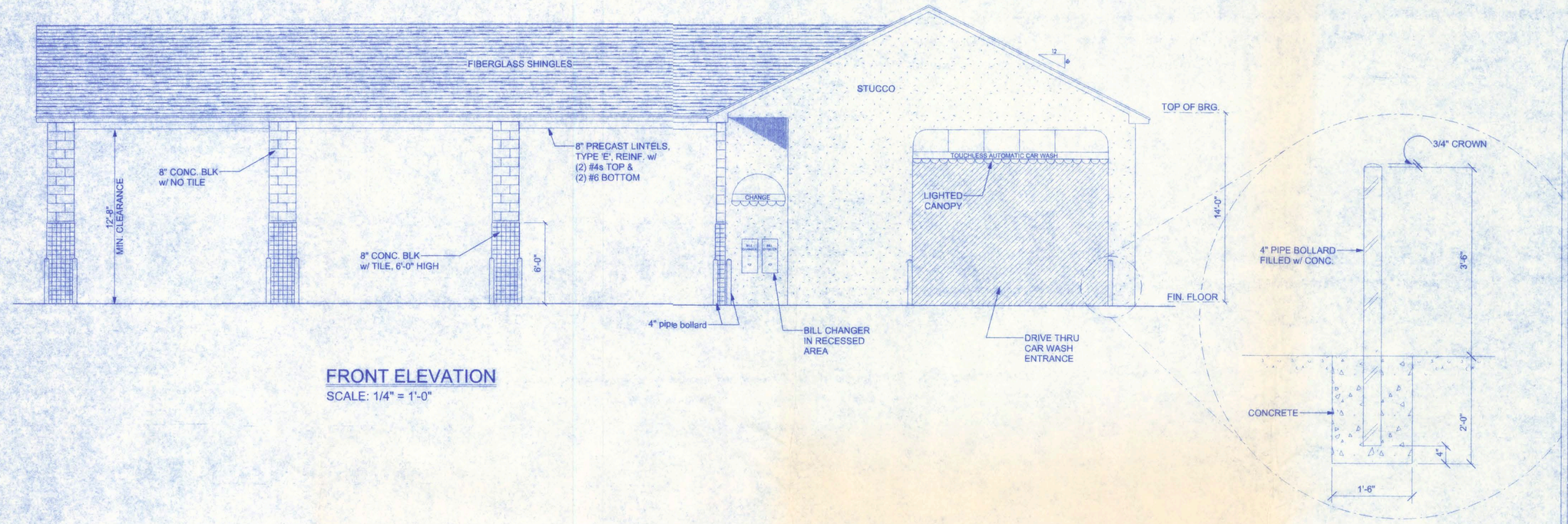
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00008701
P.E. # 59001
10/31/07

DATE	DRAWN BY
8/30/07	J.T.D.

REVISIONS

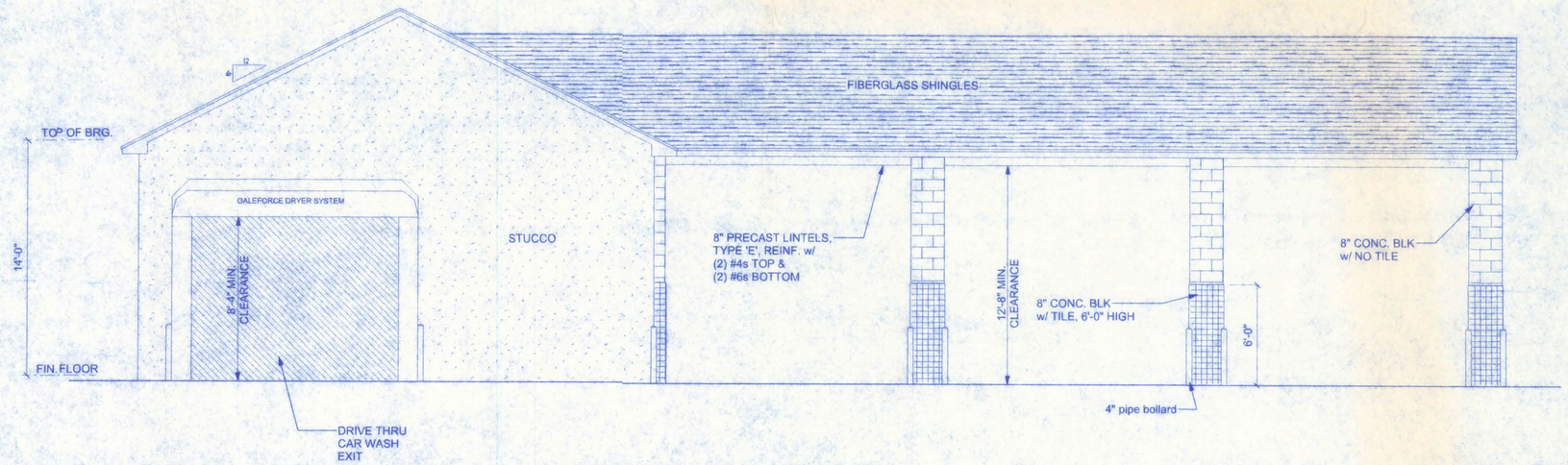
SHEET A-2
OF 10

PROJECT NO. 07.C025



FRONT ELEVATION

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



REAR ELEVATION

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

RIGSBY ENTERPRISES CAR WASH FACILITY

8/30/07
P.E. #-56001

Freeman Design Group Inc.
161 NW MADISON STREET
SUITE #102
LAKE CITY, FL. 32055
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00008701

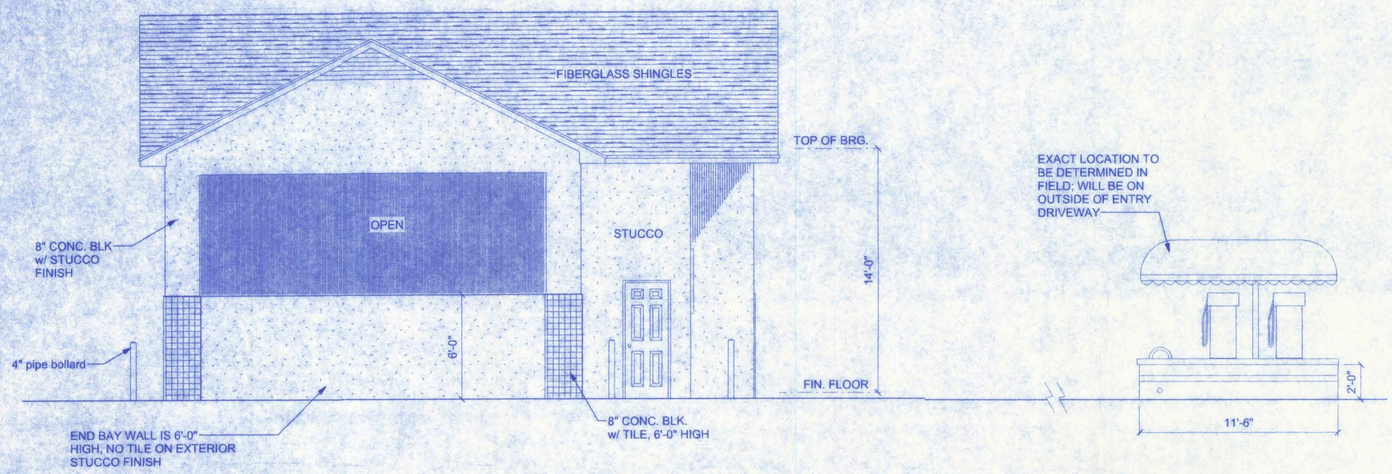
DATE	DRAWN BY
8/30/07	J.T.D.

REVISIONS

SHEET A-3

OF 10

PROJECT NO. 07.C025



LEFT ELEVATION

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

CONSTRUCTION DOCUMENTS:

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

DO NOT SCALE THESE PLANS:

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

CHANGES TO PLAN SETS:

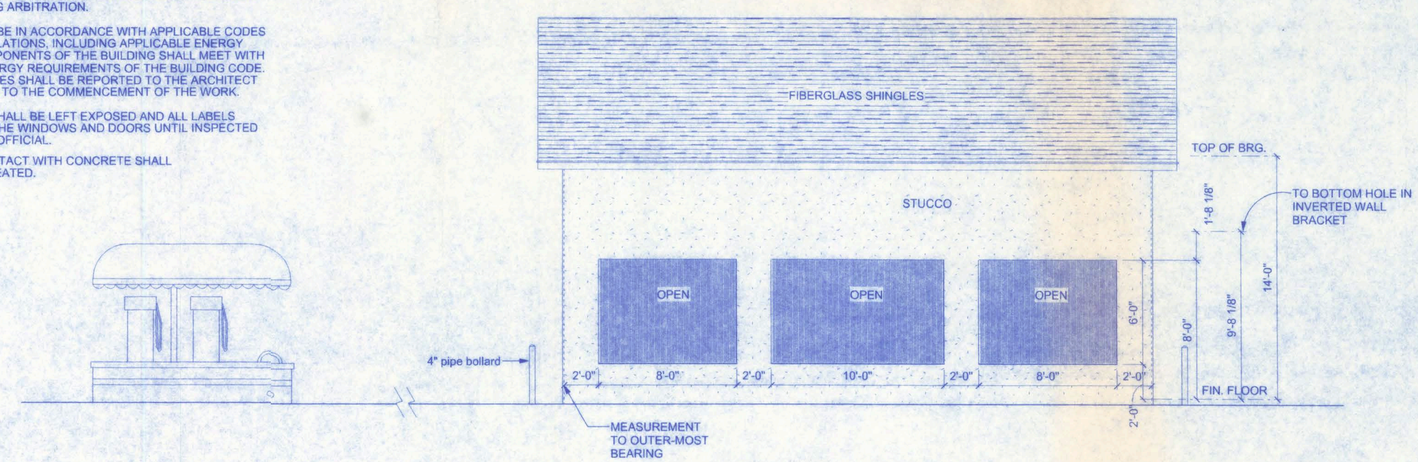
PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THES PLANS WITHOUT CONSULTING WITH THE ARCHITECT/ENGINEER. THE OWNER SHALL ASSUME ANY AND ALL LIABILITY FOR STRUCTURAL DAMAGE RESULTING FROM CHANGES MADE TO THE PLANS OR BY SUBSTITUTION OF MATERIALS DIFFERENT FROM SPECIFICATIONS ON THE PLANS.

NOTE:

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

GENERAL NOTES:

1. THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ALL CLAIMS, WHETHER FROM PERSONAL INJURY OR PROPERTY DAMAGE, ARISING FORM 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, CONTACTOR(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.



RIGHT ELEVATION

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

RIGSBY ENTERPRISES CAR WASH FACILITY

Freeman Design Group INC.
161 NW MADISON STREET
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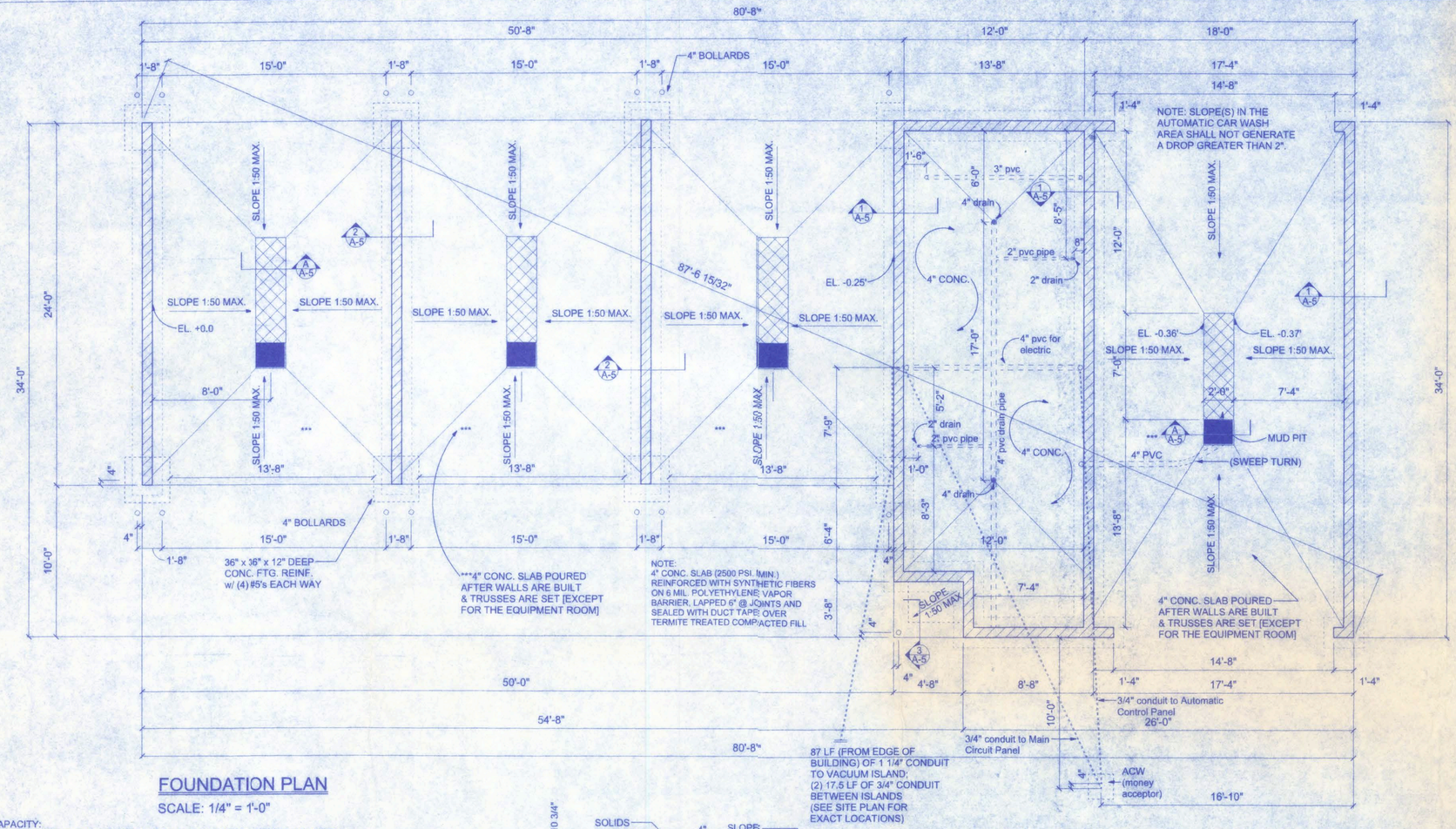
CERTIFICATE OF AUTHORIZATION # 00008701

DATE	DRAWN BY
8/30/07	J.T.D.

REVISIONS

SHEET A-4 OF 10

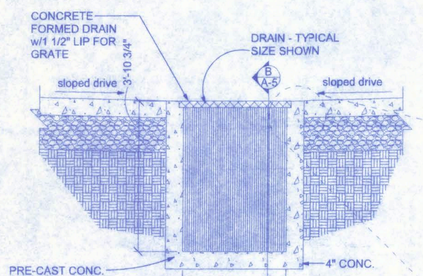
PROJECT NO. 07.C025



FOUNDATION PLAN

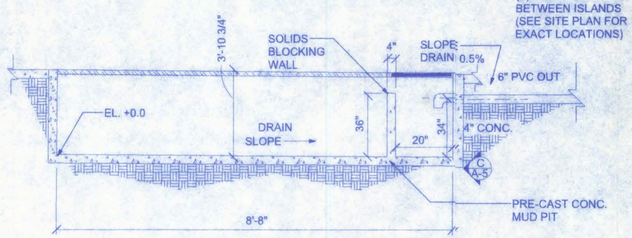
SCALE: 1/4" = 1'-0"

BEARING CAPACITY:
THE FOOTING IS DESIGNED FOR SOIL WITH AN ALLOWABLE BEARING CAPACITY OF 1,000 PSF. THE FOOTINGS SHALL REST ON UNDISTURBED OR COMPACTED SOIL OF UNIFORM DENSITY AND THICKNESS. AT THE OWNER'S REQUEST, COMPACTED SOILS SHALL BE TESTED TO A MINIMUM OF 95% OF MODIFIED PROCTOR AND COMPACTED IN LIFTS NOT TO EXCEED 12 INCHES.



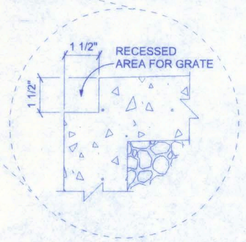
A SECTION THRU @ AUTOMATIC DRAIN

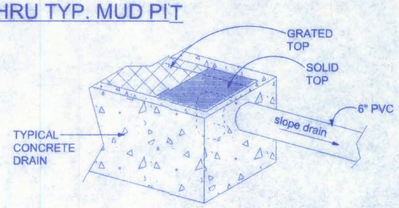
SCALE: 3/4" = 1'-0"



B SECTION THRU TYP. MUD PIT

SCALE: N.T.S.





C END OF DRAIN DETAIL

SCALE: N.T.S.

FOUNDATION NOTES:

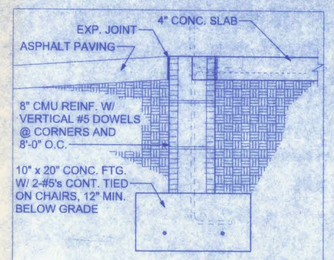
CONCRETE:
CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS.

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

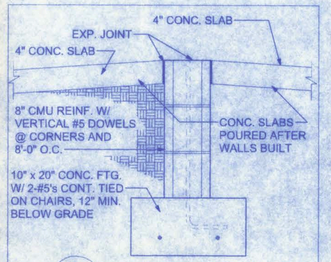
REINFORCING STEEL:
THE REINFORCING STEEL SHALL BE MINIMUM GRADE 60

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:
1. ALL REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS AND
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.
   EXCEPTION: WHERE BENDING IS NECESSARY TO ALIGN DOWEL BARS WITH A VERTICAL CELL, BARS PARTIALLY EMBEDDED IN CONCRETE SHALL BE PERMITTED TO BE BENT AT A SLOPE OF NOT MORE THAN 1 INCH OF HORIZONTAL DISPLACEMENT TO 6 INCHES OF VERTICAL BAR LENGTH.

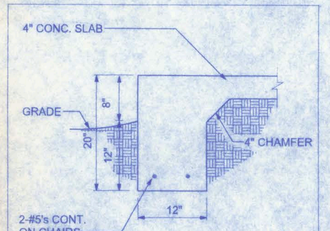
COVER OVER REINFORCING STEEL
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE:
3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER AND 1 1/2 INCHES ELSEWHERE. REINFORCING BARS EMBEDDED IN GROUTED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



1 A-5 STEMWALL SECTION



2 A-5 STEMWALL SECTION @ INTERIOR BAY



3 A-5 MONOLITHIC FOOTING

RIGSBY ENTERPRISES CAR WASH FACILITY

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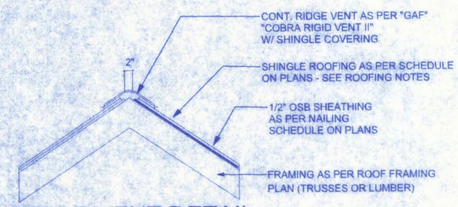
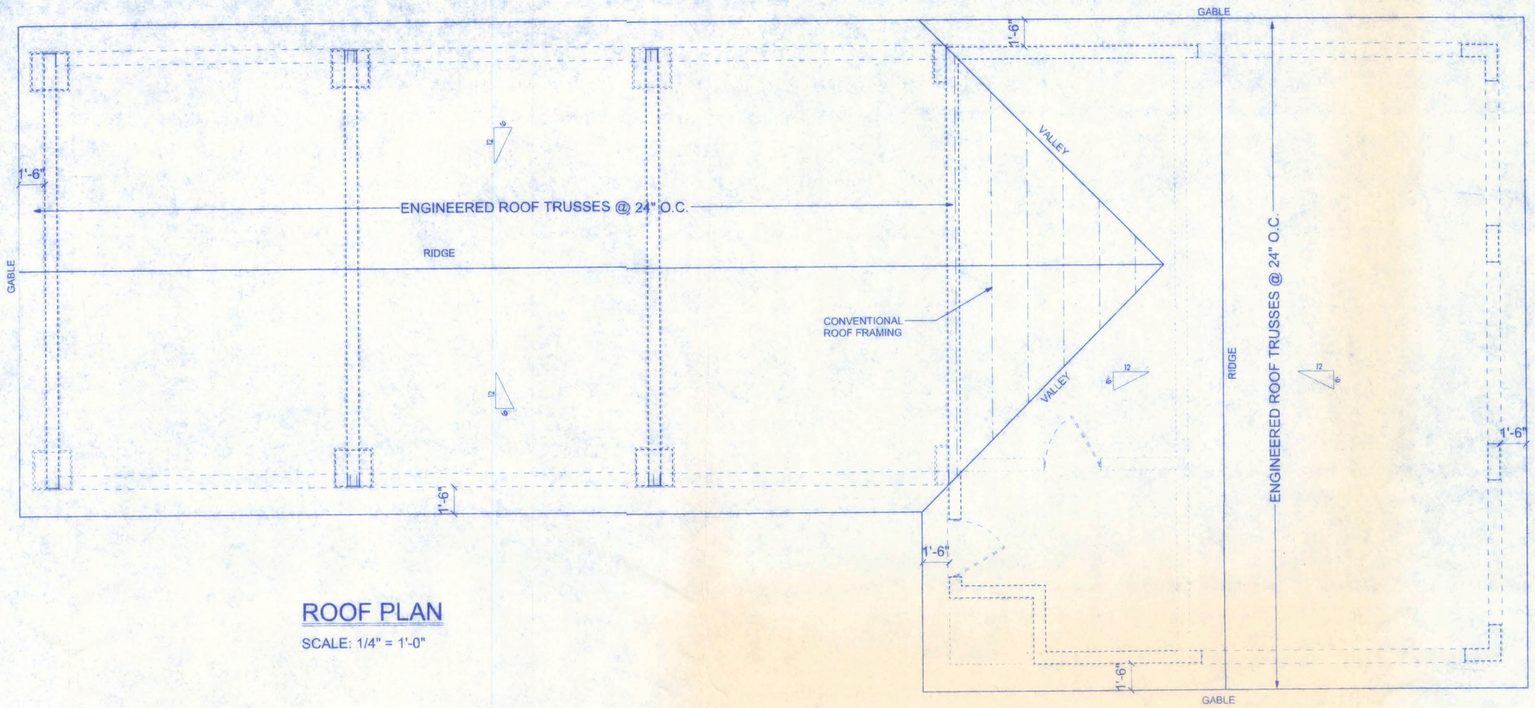
REVISIONS

SHEET A-5
OF 10

PROJECT NO. 07.C025



RIDGE VENT DETAIL



ROOF PLAN

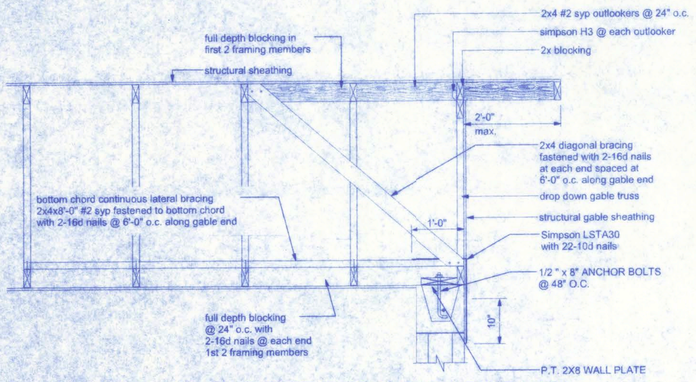
SCALE: 1/4" = 1'-0"

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

ROOF SHEATHING FASTENINGS

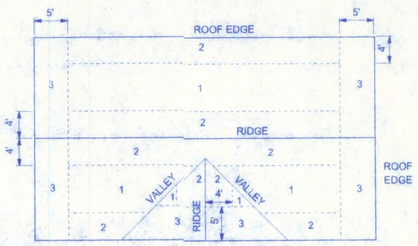
NAILING ZONE	SHEATHING TYPE	FASTENER	SPACING
1	1/2" O.S.B.	8d COMMON OR 8d HOT DIPPED GALVANIZED BOX NAILS	6 in. o.c. EDGE 12 in. o.c. FIELD
2			6 in. o.c. EDGE 6 in. o.c. FIELD
3			4 in. o.c. @ GABLE ENDWALL OR GABLE TRUSS 6 in. o.c. EDGE 6 in. o.c. FIELD



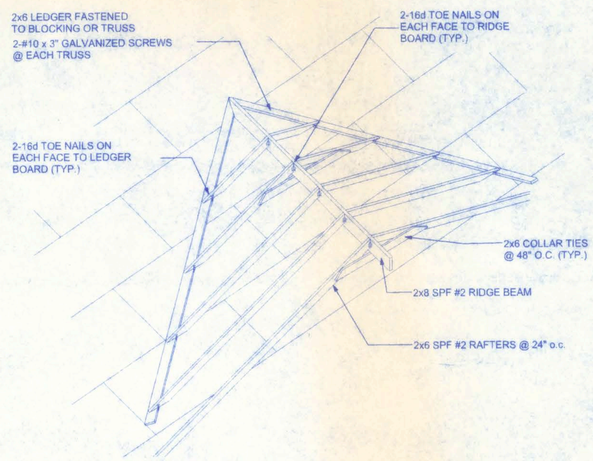
END WALL BRACING FOR CEILING DIAPHRAGM

NTS

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



ROOF SHEATHING NAILING ZONES (GABLE ROOF)



ROOF INTERSECTION CONNECTION DETAIL

NTS

RIGSBY ENTERPRISES CAR WASH FACILITY

Freeman Design Group INC
161 NW MADISON STREET
SUITE #102
LAKE CITY, FL. 32055
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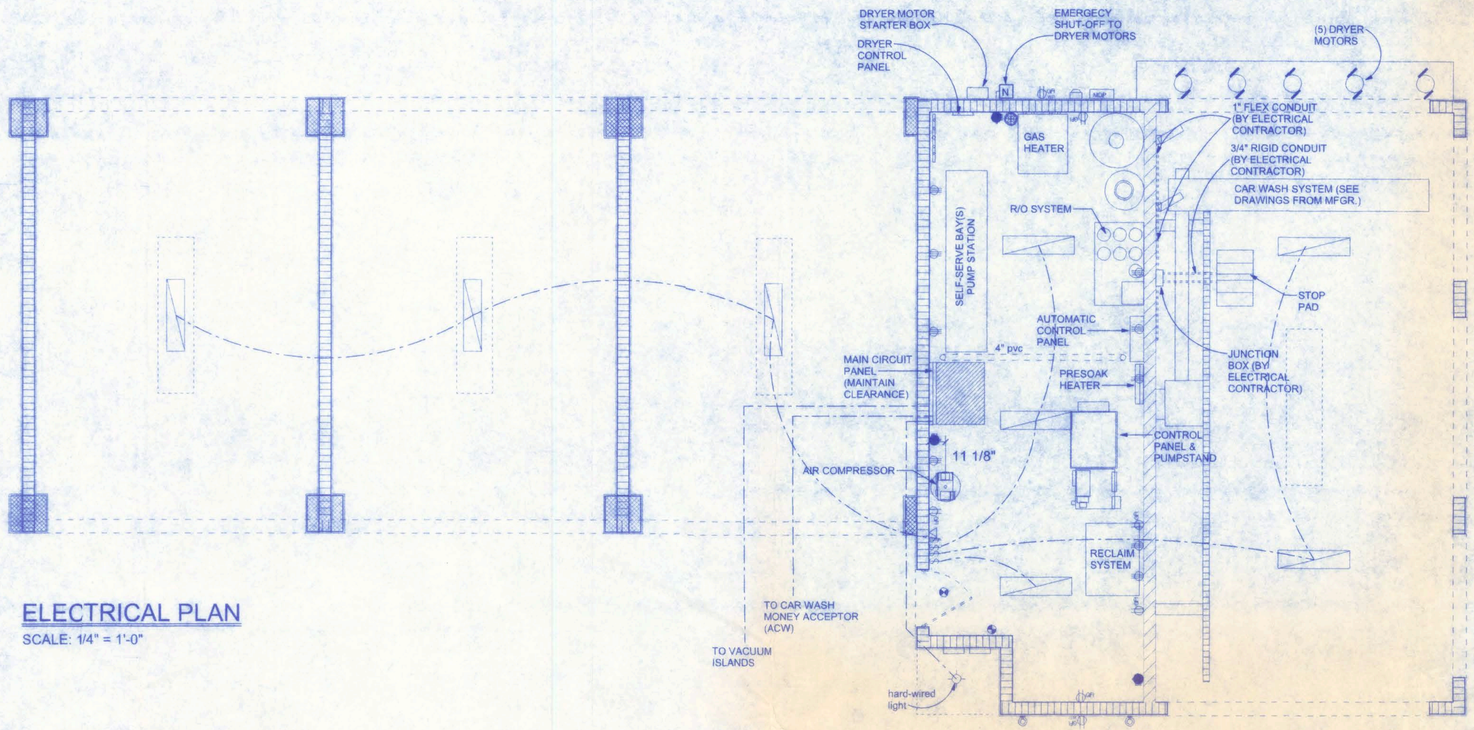
CERTIFICATE OF AUTHORIZATION # 00008701
P.E. #-56007
8/30/07

DATE	DRAWN BY
8/30/07	J.T.D.

REVISIONS

SHEET A-6 OF 10

PROJECT NO. 07.0025



ELECTRICAL PLAN

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

ELECTRICAL	SYMBOL
fluorescent fixture	
wall mount 1	
HVAC motor	
Mdp	MDP
Meter can	
electrical panel	
exit	
non-fused disconnect	N
100 cfm exhaust fan	
light	
outlet 220v	
outlet gfi	
smoke detector	
switch	$
telephone	
type 20 fire ext	
weatherproof gfi	

MAIN CIRCUIT PANEL

LOAD CALCULATIONS:

CONTINUOUS	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
GENERAL LIGHTING	2.00 kVA	1.25	2.500 kVA
EXTERIOR LIGHTING	3.00 kVA	1.25	3.750 kA
EMERGENCY LIGHTING	1.50 kVA	1.25	1.875 kVA
			8.125 kVA
NON-CONTINUOUS			
RECEPTACLES	4.00 kVA	1.0	4.00 kVA
DRYER MOTORS	58.49 kVA	1.0	58.49 kVA
PUMP STAND 25HP	28.41 kVA	1.0	28.41 kVA
HYDRAULIC POWER UNIT 5HP	6.68 kVA	1.0	6.68 kVA
JETSTREAM 5HP (3 BAYS)	34.00 kVA	1.0	34.00 kVA
JETSTREAM CONTROL	5.20 kVA	1.0	5.20 kVA
JETSTREAM SPOT FREE PRODUCTION	11.33 kVA	1.0	11.33 kVA
JETSTREAM SPOT FREE DELIVERY	11.33 kVA	1.0	11.33 kVA
5 HP COMPRESSOR	6.68 kVA	1.0	6.68 kVA
ELECTRIC PRESOAK HEATER	13.37 kVA	1.0	13.37 kVA
VACUUMS (2)	5.54 kVA	1.0	5.54 kVA
RECLAIM CONTROL POWER	6.30 kVA	1.0	6.30 kVA
R/O SYSTEM	4.62 kVA	1.0	4.62 kVA
AUTO CONTROL VOLTAGE	1.73 kVA	1.0	1.73 kVA
			197.68 kVA
		TOTAL	205.805 kVA
			@ 120/208 3 PHASE
			549.36 AMPS
		PROVIDED SERVICE	600 AMPS

NOTE:

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

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.

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 OT 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.

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 CONT'R SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADD'NS TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT Nr., 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.

8/30/07
P.E. # 56061

RIGSBY ENTERPRISES CAR WASH FACILITY

Freeman Design Group Inc
161 NW MADISON STREET
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DATE	DRAWN BY
8/30/07	J.T.D.

REVISIONS

SHEET A-7
OF 10

PROJECT NO. 07.C025

PANEL BOARD SCHEDULE

PANEL: PNL | LOCATION: EQUIPMENT ROOM
TYPE: SQ.D. 'NQOD' | MAIN LUGS: ONLY | MAIN BREAKER: X | AMPS: 250
VOLTS: 120/240 | PHASE: 3 | WIRE: 4 | SINGLE POLES: 40
A.I.C. RATING: 22,000 KVA | FEEDER SIZE: 3 - 4/0 TWC
FEED / TOP: X | BOTTOM:
MOUNTING / SURFACE: | FLUSH: X
CABINET / STANDARD: X
TOTAL KW LOAD:

WIRE	GND.	COND.	APPLICATION	LOAD	CIR.	BRK.	BRK.	CIR.	LOAD	APPLICATION	COND.	GND.	WIRE
6	10	1"	R.O. SYSTEM		1	60/2	60/2	2		RECLAIM SYSTEM	1"	10	6
					3			4					
12	12	1/2"	AUTOMATIC CONTROL (GFCI)		5	20/1	20/1	6		AUTOMATIC CONTROL	1/2"	12	12
					7			8					
12	12	1/2"	DRYER MAIN PWR		9	20/1	20/1	10		DRYER CONTROL	1/2"	12	12
					11		20/1	12		DISPLAY TIMER	1/2"	12	12
12	12	1/2"	SPOT FREE DELIVERY PUMP		13	20/1	20/1	14		AUTOMATIC PUMP MOTOR	1/2"	12	12
12	12	1/2"	LIGHTED MENU SIGN		15	20/1	20/1	16			1/2"	12	12
12	12	1/2"	ELECTRIC PRESOAK HEATER		17	20/1	20/1	18		SELF-SERVE PUMP MOTOR BAY #1	1/2"	12	12
12	12	1/2"			19		20/1	20			1/2"	12	12
12	12	1/2"	HYDRAULIC POWER UNIT PUMP & MOTOR		21	20/1	20/1	22		SELF-SERVE PUMP MOTOR BAY #2	1/2"	12	12
12	12	1/2"			23		20/1	24			1/2"	12	12
12	12	1/2"	VACUUM ISLAND		25	20/1	20/1	26		SELF-SERVE PUMP MOTOR BAY #3	1/2"	12	12
12	12	1/2"			27			28			1/2"	12	12
12	12	1/2"	VACUUM ISLAND		29	20/1	20/1	30		SPOT FREE PUMP MOTOR BAY #1	1/2"	12	12
12	12	1/2"			31			32			1/2"	12	12
12	12	1/2"	VACUUM ISLAND		33	20/1	20/1	34		SPOT FREE PUMP MOTOR BAY #2	1/2"	12	12
12	12	1/2"			35	20/1		36			1/2"	12	12
12	12	1/2"	SELF-SERVE CONTROL		37	20/1	20/1	38		SPOT FREE PUMP MOTOR BAY #3	1/2"	12	12
12	12	1/2"	H/W BOILER		39	20/1		40			1/2"	12	12

PANEL BOARD SCHEDULE

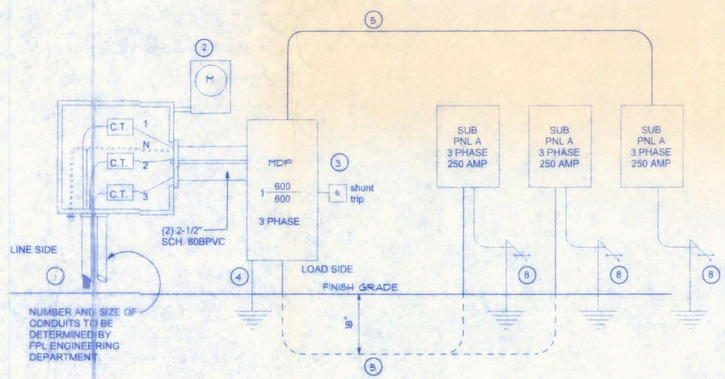
PANEL: PNL | LOCATION: EQUIPMENT ROOM
TYPE: SQ.D. 'NQOD' | MAIN LUGS: ONLY | MAIN BREAKER: X | AMPS: 250
VOLTS: 120/240 | PHASE: 3 | WIRE: 4 | SINGLE POLES: 40
A.I.C. RATING: 22,000 KVA | FEEDER SIZE: 3 - 4/0 TWC
FEED / TOP: X | BOTTOM:
MOUNTING / SURFACE: | FLUSH: X
CABINET / STANDARD: X
TOTAL KW LOAD:

WIRE	GND.	COND.	APPLICATION	LOAD	CIR.	BRK.	BRK.	CIR.	LOAD	APPLICATION	COND.	GND.	WIRE
8	10	1"	DRYER MOTORS		1	40/2	40/2	2		DRYER MOTORS	1"	10	8
					3			4					
8	10	1"	DRYER MOTORS		5	40/1	40/1	6		DRYER MOTORS	1"	10	8
					7			8					
8	10	1"	DRYER MOTORS		9		20/1	10		5 HP COMPRESSOR	3/4"	12	12
					11			12					
					13			14					
					15			16					
					17			18					
					19			20					
					21			22					
					23			24					
					25			26					
					27			28					
					29			30					
					31			32					
					33			34					
					35			36					
					37			38					
					39			40					

PANEL BOARD SCHEDULE

PANEL: PNL C | LOCATION: STORAGE ROOM
TYPE: SQ.D. 'NQOD' | MAIN LUGS: ONLY | MAIN BREAKER: X | AMPS: 150
VOLTS: 120/240 | PHASE: 3 | WIRE: 4 | SINGLE POLES: 40
A.I.C. RATING: 22,000 KVA | FEEDER SIZE: 3 - 1/0 TWC
FEED / TOP: X | BOTTOM:
MOUNTING / SURFACE: | FLUSH: X
CABINET / STANDARD: X
TOTAL KW LOAD:

WIRE	GND.	COND.	APPLICATION	LOAD	CIR.	BRK.	BRK.	CIR.	LOAD	APPLICATION	COND.	GND.	WIRE
12	12	1/2"	EM. LIGHTS		1	20/1	20/1	2		RECEPT.	1/2"	12	12
12	12	1/2"	LIGHTING		3	20/1	20/1	4		LIGHTING	1/2"	12	12
12	12	1/2"	EXT. LIGHTING		5	20/1	20/1	6		EXT. LIGHTING	1/2"	12	12
12	12	1/2"	CHANGE MACHINE		7	20/1	20/1	8		MISCELL.	1/2"	12	12
12	12	1/2"	CHANGE MACHINE		9	20/1	20/1	10		MISCELL.	1/2"	12	12
12	12	1/2"	SPARE		11	20/1	20/1	12		SPARE	1/2"	12	12
			↓			↓	↓			↓			
			SPARE		39	20/1	20/1	40		SPARE			



NUMBER AND SIZE OF CONDUITS TO BE DETERMINED BY FPL ENGINEERING DEPARTMENT.

NOTES:

1. Service/Feeder Entrance Conductors: 2 1/2" rigid conduit, min 18" deep, w. continuous ground bonding conductor. Service/ Entrance Conductors shall not be spliced except that bolted conections at the Meter, Disconnectiong Devices and Panel shall be allowed.
2. New Meter Enclosure, weatherproof, U.L. Listed.
3. Main Disconnect Switch; fused or Main Breaker, weatherproof, U.L. Listed.
4. Service entrance ground: 5/8" diameter iron/steel rod x 8'-0" long and/or concrete encased foundation steel rebar x 20'-0" long. Grounding conductor shall be bonded to each piece of Service/Entrance Equipment, and shall be sized per Item #5 below.
5. 250 Ampere Feeder: 4-4/0-THWN-Cu, 1-#2-Cu-GND, 3" Conduit
   100 Ampere Feeder: 4-1/0-THWN-Cu, 1-#2-Cu-GND, 3" Conduit
6. House Panel (PNL), U.L. Listed, sized per schedule.
7. Equipment Disconnect Switch; non-fused, in weather proof enclosure, size according to Panel Schedule loads.
8. Provide Ground Bond Wire to metal piping, size in accordance with the Service Ground Conductor.

NOTE:
ELECTRICAL CONTRACTOR SHALL WORK WITH OASIS CAR WASH SYSTEMS & CON-SERV RECLAMATION SYSTEMS IN COORDINATING THE FINAL FINISHED ELECTRICAL REQUIREMENTS FOR THIS PROJECT. THE SCHEDULES SHOWN AND THE RISER DIAGRAM SHOWN ARE TYPICAL, AND FINAL "AS-BUILT" DRAWINGS SHALL BE SUPPLIED TO THE PERMITTING AUTHORITY BY THE ELECTRICAL CONTRACTOR UPON COMPLETION OF THE PROJECT.

NOTES:

1) METER SOCKET FURNISHED BY THE COOPERATIVE FOR INSTALLATION BY THE CONSUMER.
2) CT's FURNISHED BY THE COOPERATIVE, AND INSTALLED BY CONTRACTOR.
3) CT ENCLOSURE AND DISCONNECT SWITCH FURNISHED AND INSTALLED BY CONSUMER.
4) ALL CONDUIT WITH PULL STRING, INCLUDING CONDUIT FOR CT WIRING FURNISHED AND INSTALLED BY CONSUMER.
5) WIRING TO THE LINE SIDE OF DISCONNNECT SWITCH, INCLUDING CT WIRING TO BE FURNISHED AND INSATLLED BY COOPERATIVE.
6) HEIGHT TO CABINET BOTTOM - 3' MINIMUM.

WIRING NOTES:

WIRING, DISTRIBUTION EQUIPMENT AND DEVICES.

A. CONDUCTORS: Copper, in accordance with ASTM Standards, size reference AWG. 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 minim 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 typwritten 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.

NOTE: FINAL DETERMINATION FOR ALL ELECTRICAL DEVICES, SWITCHES, PANELS, FIXTURES, (ETC.) SHALL BE MADE BY ELECTRICAL CONTRACTOR AND SHALL BE APPROVED BY OWNER AND SHALL BE IN ACCORDANCE WITH NEC, LATEST EDITION.

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 2 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.

Joseph Lee 8/30/07 P.E. # 56001

RIGSBY ENTERPRISES CAR WASH FACILITY

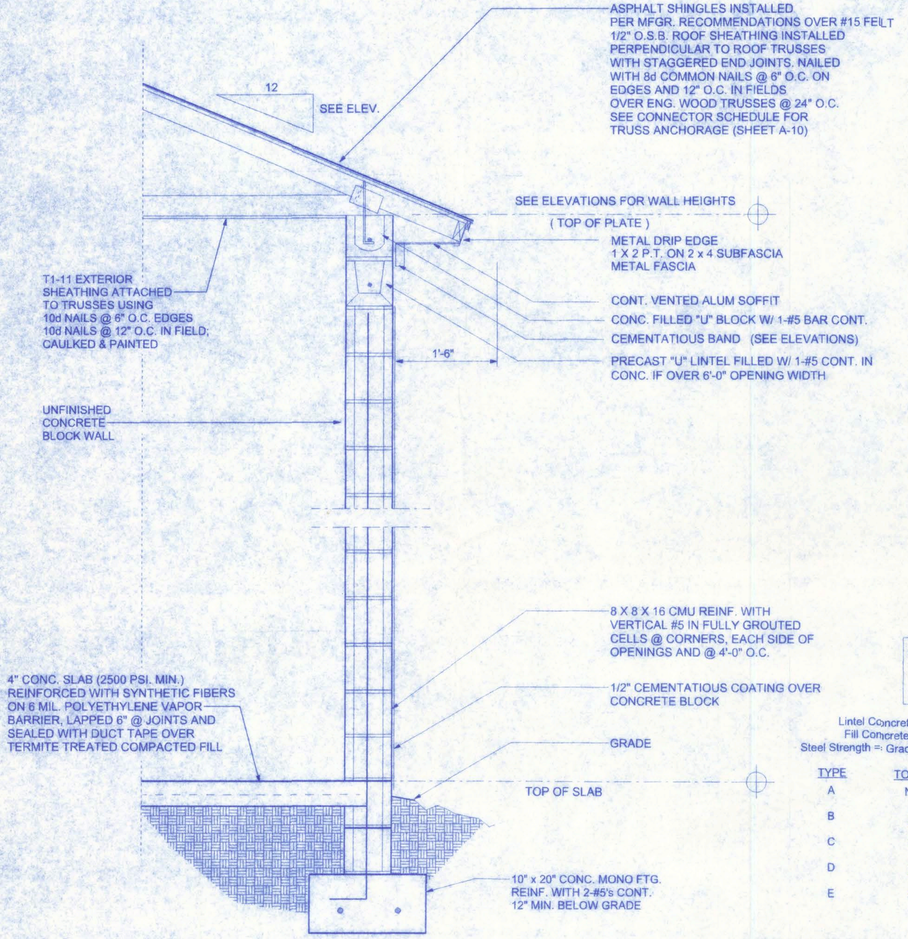
161 NW MADISON STREET
SUITE #102
LAKE CITY, FL. 32055
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00006701
Freeman Design Group, Inc.

DATE	DRAWN BY
8/30/07	J.T.D.

REVISIONS

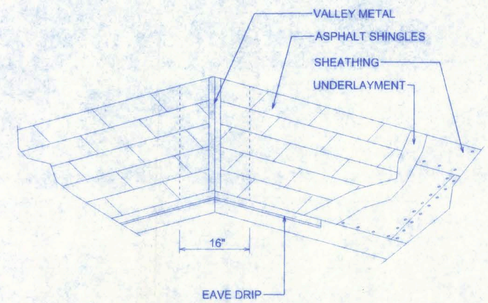
SHEET A-8
OF 10

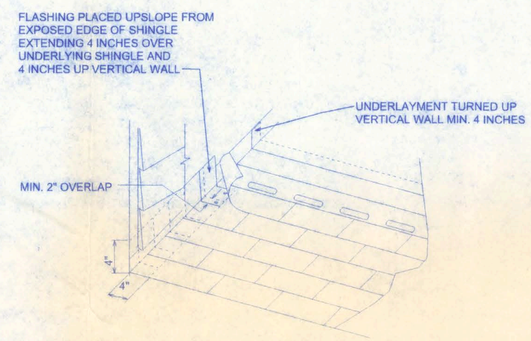
PROJECT NO. 07.C025



TYPICAL WALL SECTION

3/4" = 1'-0"





Lintel Concrete Strength = 4000 psi
Fill Concrete Strength = 3000 psi
Steel Strength = Grade 60 (#6), Grade 40 (#2 - #5)

TYPE	TOP BARS	BOTTOM BARS
A	NONE	2-#3
B	2-#2	2-#4
C	2-#3	2-#4
D	2-#3	2-#5
E	2-#4	2-#6

Lintel Concrete Strength = 4000 psi
Fill Concrete Strength = 3000 psi
Steel Strength = Grade 60 (#6), Grade 40 (#2 - #5)

TYPE	TOP BARS	BOTTOM BARS
A	NONE	2-#3
B	NONE	2-#4
C	2-#2	2-#4

SHINGLE DETAILS

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 FORM 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.

PRECAST LINTEL OVER OPENINGS

LENGTH	CLEAR SPAN	TYPE	FILLED + BEAM
4'-6"	3'-2"	A	6000+ PLF
7'-6"	6'-2"	B	5663 PLF
12'-0"	10'-8"	D	2181 PLF
17'-4"	16'-0"	E	1366 PLF

FILLED + BEAM = Acting as composite beam with an 8" perimeter beam
1-#5 rebar in lintel, 1-#5 rebar in perimeter beam

DOORWAY HEADER

DOOR SIZE	TYPE	FILLED + BEAM
3'-0"	A	6000+ PLF
5'-0"	B	5689 PLF
6'-0"	C	4262 PLF

FILLED + BEAM = Acting as composite beam with an 8" perimeter beam
1-#5 rebar in lintel, 1-#5 rebar in perimeter beam

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 PAINTED TERNE	0.027		2 1/2 20

S. L. Pierce 8/30/07
P.E. #56001

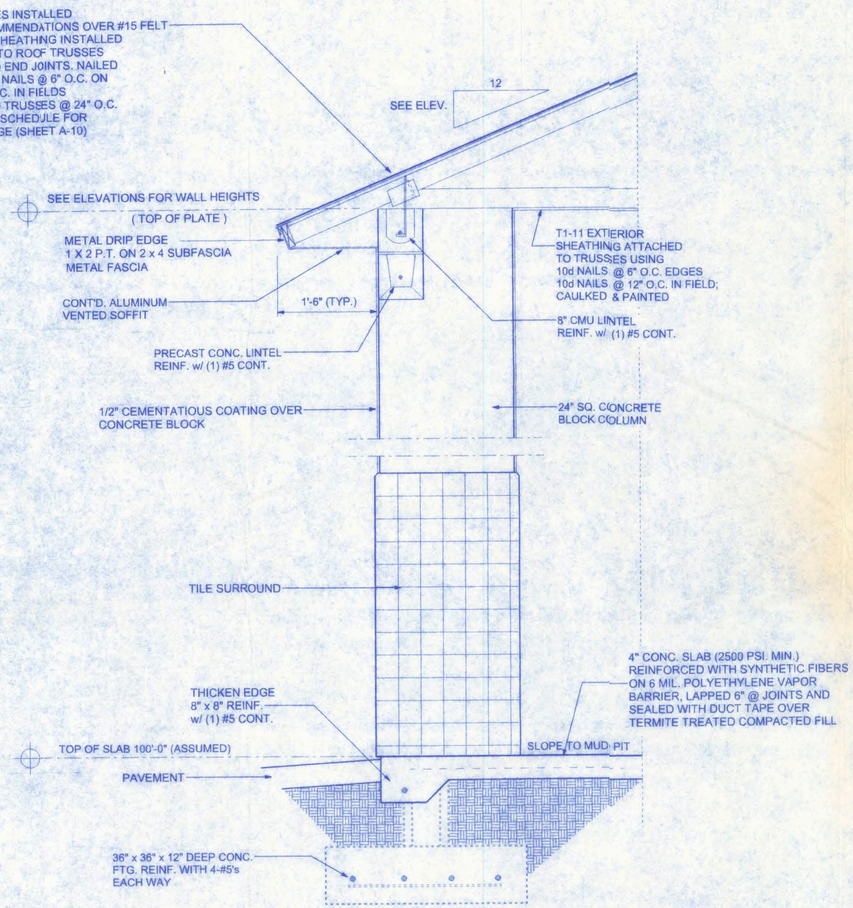
RIGSBY ENTERPRISES
CAR WASH FACILITY

Freeman Design Group INC
161 NW MADISON STREET
SUITE #102
LAKE CITY, FL. 32055
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00008701

DATE	DRAWN BY
8/30/07	J.T.D.

REVISIONS

SHEET A-9
OF 10
PROJECT NO. 07.C025



TYPICAL SECTION @ BAY

3/4" = 1'-0"

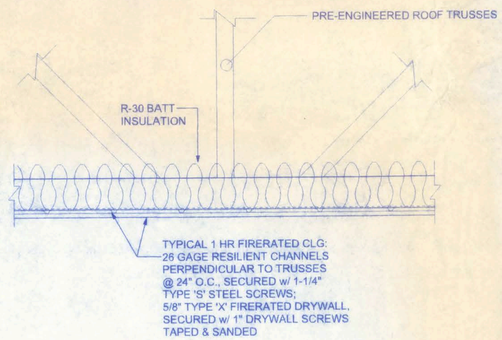
CONNECTOR SCHEDULE FOR TRUSS ANCHORAGE

CONNECTOR	1 PLY-TRUSS	2 PLY-TRUSS	EMBEDMENT	UPLIFT PROVIDED	MANUFACTURER
HETA20	10-10d NAILS		4"	1,280 LBS	SIMPSON
HETA20		11-16d NAILS	4"	1,890 LBS	SIMPSON
	TRUSS B2 AND C3		TIE BEAM		
MGT	22-10d NAILS		1-5/8"x10" ANCHOR BOLT	3,965 LBS	SIMPSON
LGT2	16-16d SINKER		7- 1/4 x 2 1/4 TITEN	2,150 LBS	SIMPSON

NOTE: COMBINE BOTH THE SIMPSON MGT AND LGT2 ON TRUSSES B2 AND C3

MINIMUM FIRE RATED CEILING CONSTRUCTION:

26 GAGE RESILIENT CHANNELS PERPENDICULAR TO TRUSSES
@ 24" O.C., SECURED w/ 1-1/4" TYPE 'S' STEEL SCREWS;
5/8" TYPE 'X' FIRERATED DRYWALL, SECURED w/ 1" DRYWALL SCREWS
TAPED & SANDED (SEE DETAIL THIS SHEET).



TYP. 1-HOUR CEILING

(UL 263)

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SHEET A-10

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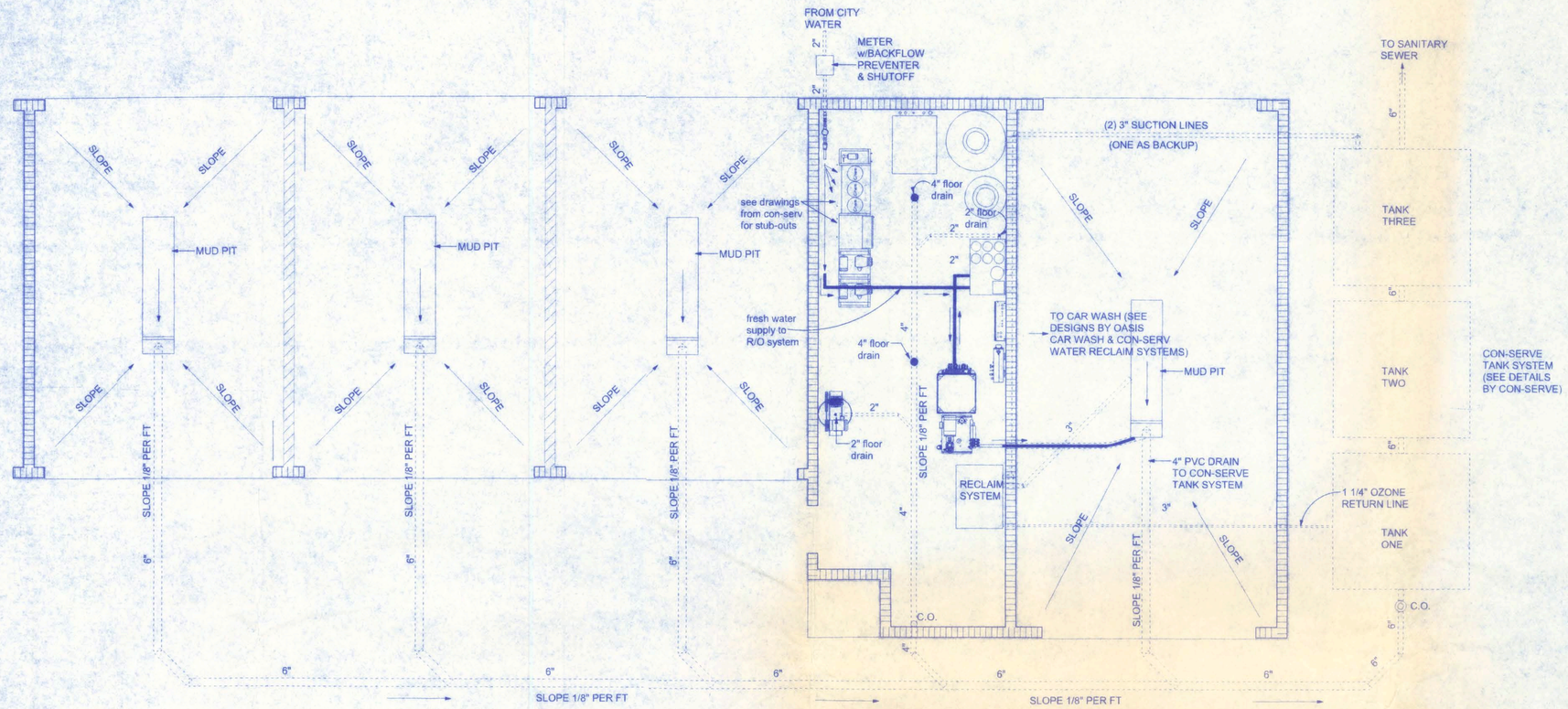
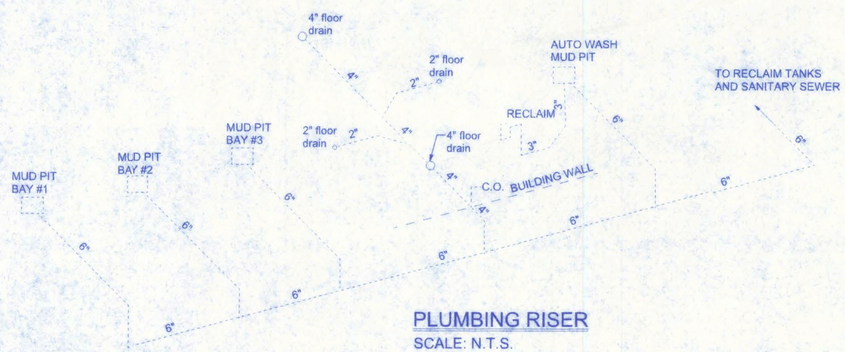


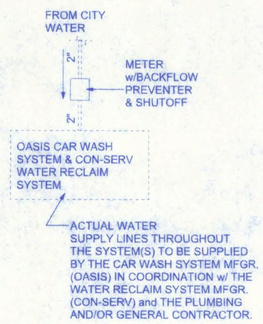
PLUMBING PLAN

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



PLUMBING RISER

SCALE: N.T.S.



SUPPLY RISER

NOTE!
PLUMBING CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL PLUMBING WORK, INCLUDING ALL PLUMBING LINE LOCATIONS AND RISER DIAGRAM - CONT'R SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER AND 1 COPY TO THE PERMIT ISSUING AUTHORITY.

NOTE!
ADDED FILL SHALL BE APPLIED IN 8" LIFTS - EA. LIFT SHALL BE CONPACTED TO 95% DRY COMPACTION PER THE "MODIFIED PROCTOR" METHOD.

NOTE!
PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS - PRIME EACH F.D. INDIVIDUALLY, DO NOT MANIFOLD

NOTE:
Where water heaters or hot water storage tanks are installed above the ground floor space, or in attics or ceiling areas, the tank or water heater shall be installed in a galvanized steel or other metal pan of equal corrosion resistance having a minimum thickness of 24 gage, 0.0276 inch (0.70 mm). Electric water heaters shall be installed in a metal pan as herein required or in a high-impact plastic pan of at least 0.0625 inch (1.59 mm) thickness.

Pan size and drain: The pan shall not be less than 1-1/2 inches (38 mm) deep and shall be of sufficient size and shape to receive all dripping or condensate from the tank or water heater. The pan shall be drained by an indirect waste pipe having a minimum diameter of 3/4 inch.

Pan drain termination: The pan drain shall extend full-size and terminate over a suitably located indirect waste receptor or floor drain or extend to the exterior of the building and terminate not less than 6 inches (152 mm) or more than 24 inches (610 mm) above the adjacent ground surface.

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SHEET M-1
OF 1

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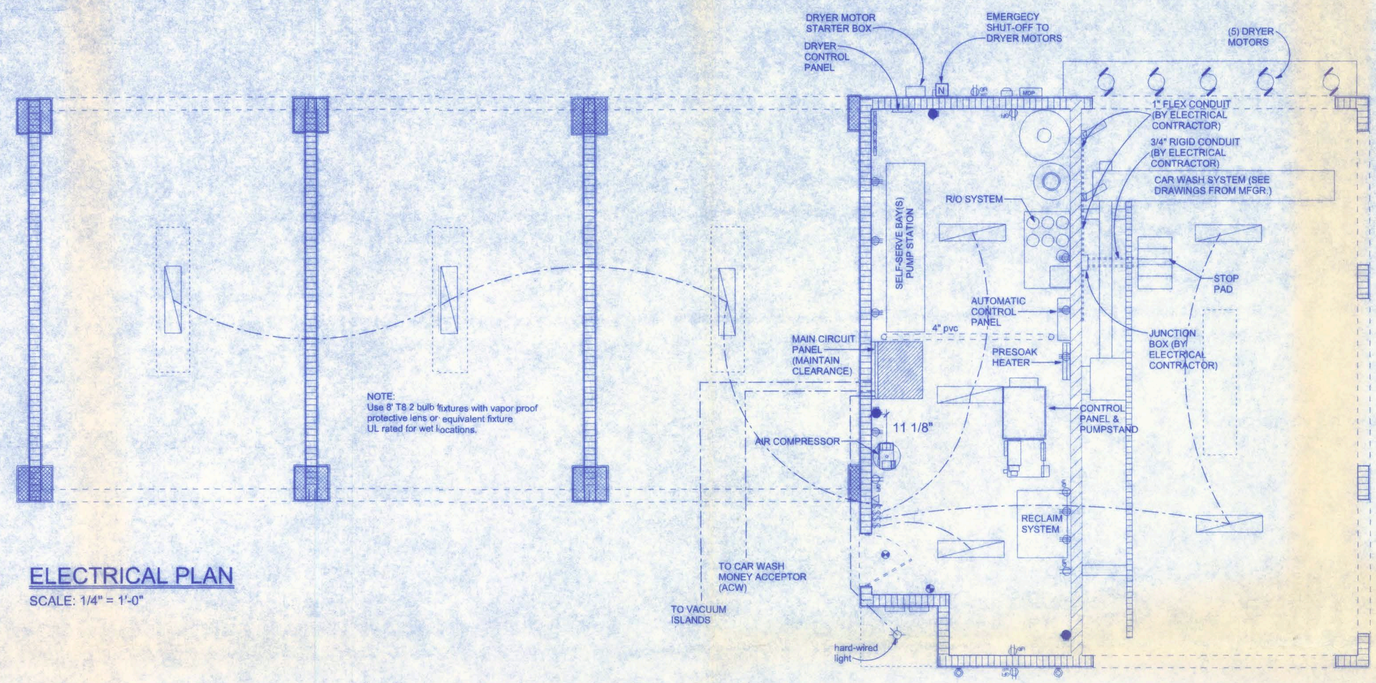


ELECTRICAL PLAN

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

ELECTRICAL	SYMBOL
fluorescent fixture	
wall mount 1	
HVAC motor	
Mdp	MDP
Meter can	
electrical panel	
exit	
non-fused disconnect	N
100 cfm exhaust fan	
light	
outlet 220v	
outlet gfi	GFI
smoke detector	
switch	$
telephone	
type 20 fire ext	
weatherproof gfi	WP GFI

MAIN CIRCUIT PANEL

LOAD CALCULATIONS:

CONTINUOUS	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
GENERAL LIGHTING	2.00 kVA	1.25	2.500 kVA
EXTERIOR LIGHTING	3.00 kVA	1.25	3.750 kA
EMERGENCY LIGHTING	1.50 kVA	1.25	1.875 kVA
			8.125 kVA
NON-CONTINUOUS			
RECEPTACLES	4.00 kVA	1.0	4.00 kVA
DRYER MOTORS	58.49 kVA	1.0	58.49 kVA
PUMP STAND 25HP	28.41 kVA	1.0	28.41 kVA
HYDRAULIC POWER UNIT 5HP	6.68 kVA	1.0	6.68 kVA
JETSTREAM 5HP (3 BAYS)	34.00 kVA	1.0	34.00 kVA
JETSTREAM CONTROL	5.20 kVA	1.0	5.20 kVA
JETSTREAM SPOT FREE PRODUCTION	11.33 kVA	1.0	11.33 kVA
JETSTREAM SPOT FREE DELIVERY	11.33 kVA	1.0	11.33 kVA
5 HP COMPRESSOR	6.68 kVA	1.0	6.68 kVA
ELECTRIC PRESOAK HEATER	13.37 kVA	1.0	13.37 kVA
VACUUMS (2)	5.54 kVA	1.0	5.54 kVA
RECLAIM CONTROL POWER	6.30 kVA	1.0	6.30 kVA
R/O SYSTEM	4.62 kVA	1.0	4.62 kVA
AUTO CONTROL VOLTAGE	1.73 kVA	1.0	1.73 kVA
			197.68 kVA
		TOTAL	205.805 kVA
			@ 120/208 3-PHASE
			549.36 AMPS
		PROVIDED SERVICE	600 AMPS

CHANGES HAVE BEEN MADE PER YOUR REQUEST. PLEASE CALL IF YOU HAVE QUESTIONS.
-TRAVIS
758-4209

NOTE:

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

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.

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 OT 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.

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 CONT'R SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADD'NS TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT Nr., 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.

Dallas H. Fox 10-2-07 P.E. 5 58801

RIGSBY ENTERPRISES CAR WASH FACILITY

161 NW MADISON STREET
SUITE #102
LAKE CITY, FL. 32055
(386)758-4208
CERTIFICATE OF AUTHORIZATION # 00008701

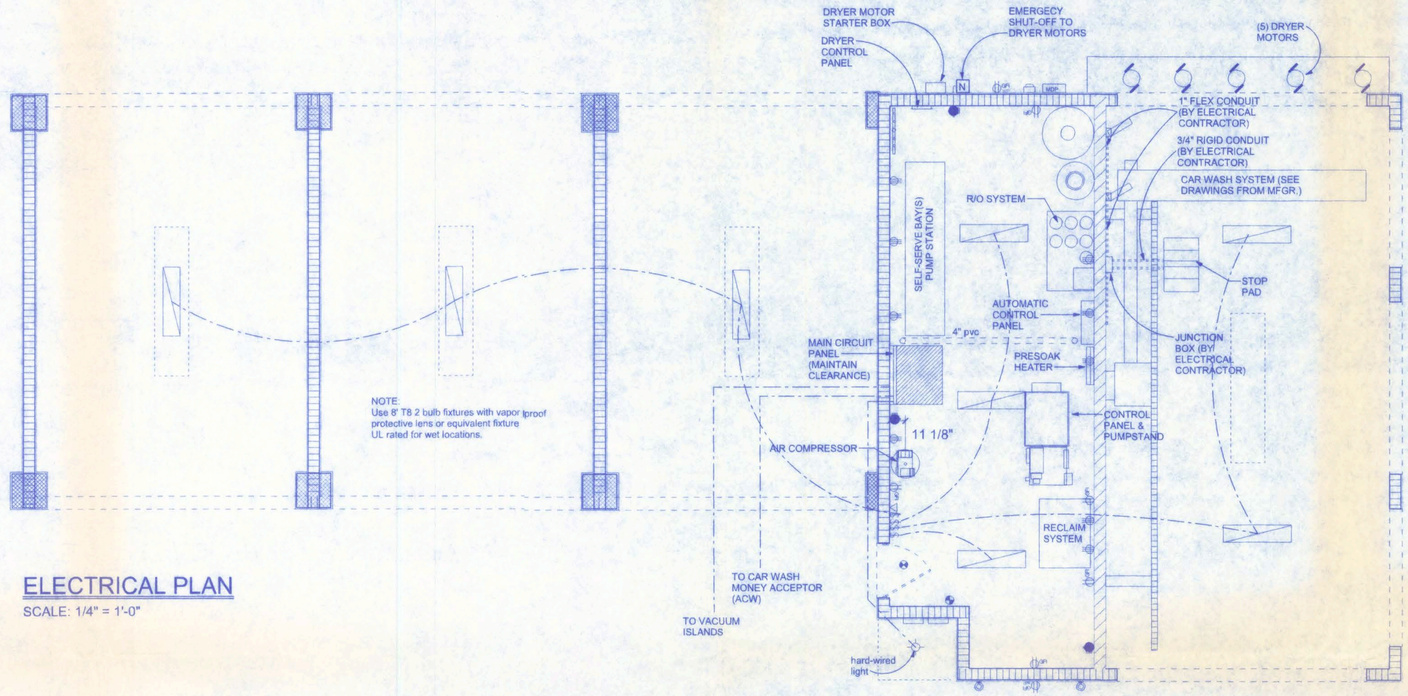
Freeman Design Group INC

DATE	DRAWN BY
8/30/07	J.T.D.

REVISIONS

SHEET A-7 OF 10

PROJECT NO. 07.C025



NOTE:
Use 8' T8 2 bulb fixtures with vapor tiproof protective lens or equivalent fixture UL rated for wet locations.

ELECTRICAL PLAN

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

ELECTRICAL	SYMBOL
fluorescent fixture	
wall mount 1	
HVAC motor	
Mdp	MDP
Meter can	
electrical panel	
exit	
non-fused disconnect	N
100 cfm exhaust fan	
light	
outlet 220v	
outlet gfi	
smoke detector	
switch	$
telephone	
type 20 fire ext	
weatherproof gfi	

MAIN CIRCUIT PANEL

LOAD CALCULATIONS:

CONTINUOUS	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
GENERAL LIGHTING	2.00 kVA	1.25	2.500 kVA
EXTERIOR LIGHTING	3.00 kVA	1.25	3.750 kA
EMERGENCY LIGHTING	1.50 kVA	1.25	1.875 kVA
			8.125 kVA
NON-CONTINUOUS			
RECEPTACLES	4.00 kVA	1.0	4.00 kVA
DRYER MOTORS	58.49 kVA	1.0	58.49 kVA
PUMP STAND 25HP	28.41 kVA	1.0	28.41 kVA
HYDRAULIC POWER UNIT 5HP	6.68 kVA	1.0	6.68 kVA
JETSTREAM 5HP (3 BAYS)	34.00 kVA	1.0	34.00 kVA
JETSTREAM CONTROL	5.20 kVA	1.0	5.20 kVA
JETSTREAM SPOT FREE PRODUCTION	11.33 kVA	1.0	11.33 kVA
JETSTREAM SPOT FREE DELIVERY	11.33 kVA	1.0	11.33 kVA
5 HP COMPRESSOR	6.68 kVA	1.0	6.68 kVA
ELECTRIC PRESOAK HEATER	13.37 kVA	1.0	13.37 kVA
VACUUMS (2)	5.54 kVA	1.0	5.54 kVA
RECLAIM CONTROL POWER	6.30 kVA	1.0	6.30 kVA
R/O SYSTEM	4.62 kVA	1.0	4.62 kVA
AUTO CONTROL VOLTAGE	1.73 kVA	1.0	1.73 kVA
			197.68 kVA
		TOTAL	205.805 kVA
			@ 120/208 3 PHASE
			549.36 AMPS
		PROVIDED SERVICE	600 AMPS

NOTE:

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

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.

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 OT 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.

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.

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

William H. Fox 10/24/07 P.E. # 56501

RIGSBY ENTERPRISES CAR WASH FACILITY

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SUITE #102
LAKE CITY, FL 32055
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00008701
Freeman Design Group inc

DATE	DRAWN BY
8/30/07	J.T.D.

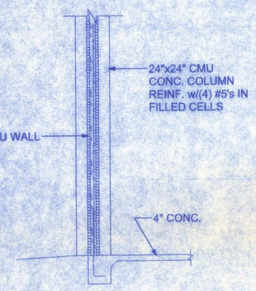
REVISIONS

SHEET A-7
OF 10

PROJECT NO. 07.C025

NOTE:
AS PER F.B.C. 1003.7.1, OIL SEPARATORS SHALL HAVE A DEPTH OF NO LESS THAN 2 FT BELOW THE INVERT OF THE DISCHARGE DRAIN, AND THE OUTLET OPENING OF THE SEPARATOR SHALL NOT HAVE LESS THAN AN 18 INCH WATER SEAL.

AS PER F.B.C. 1003.7.2 - [GARAGES AND SERVICE STATIONS (SEPARATORS REQUIRED)]; SEPARATOR SHALL HAVE A MIN. CAPACITY OF 6 CUBIC FT. FOR THE 1ST 100 SF OF AREA TO BE DRAINED, PLUS 1 CUBIC FT FOR EACH ADDITIONAL 100 SF OF AREA TO BE DRAINED INTO THE SEPARATOR.



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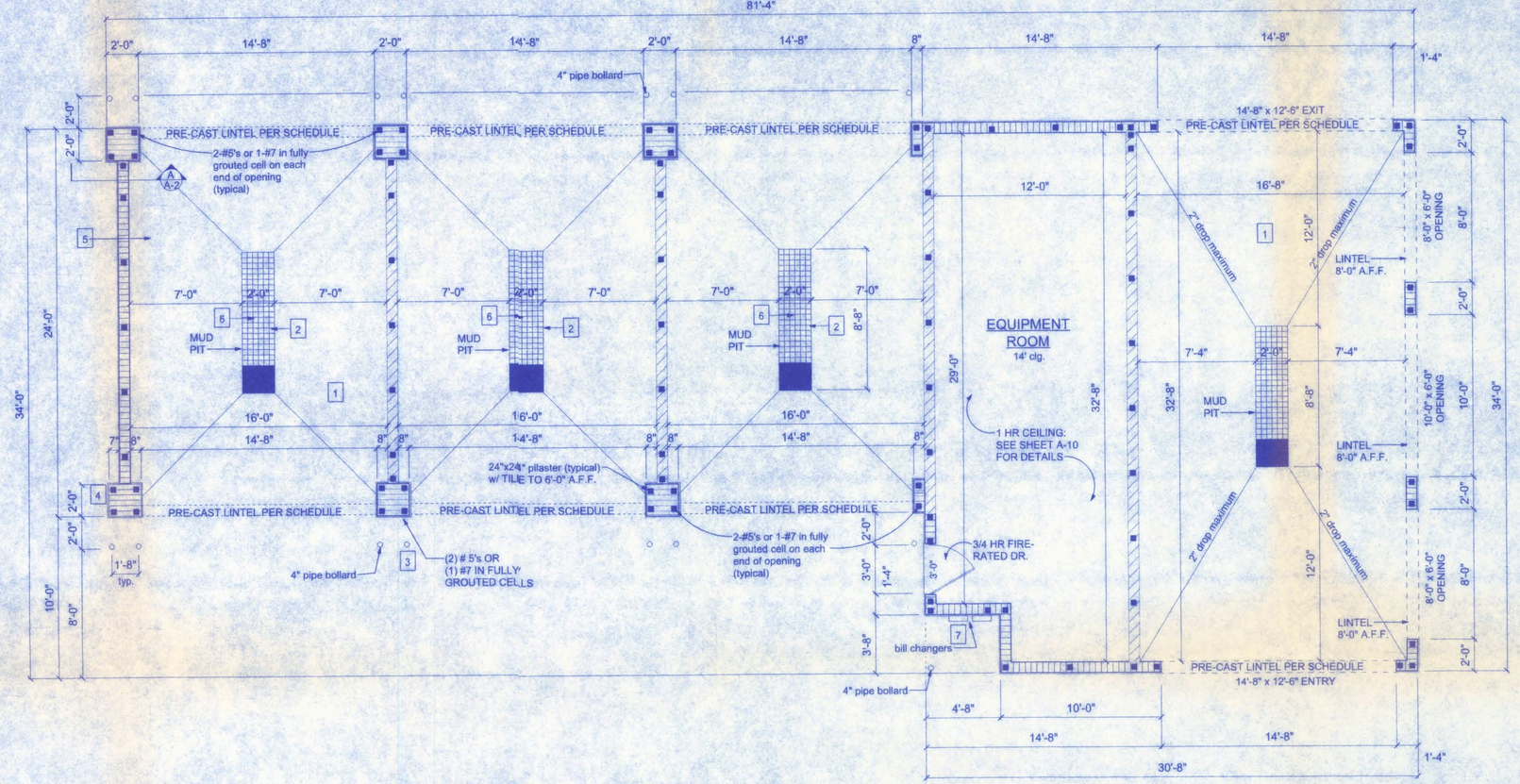
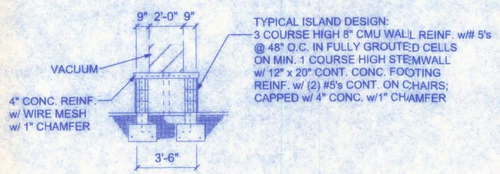


FLOOR PLAN
SCALE: 1/4" = 1'-0"

AREA SUMMARY:
TOTAL UNDER ROOF 2,307 SF

MATERIALS SCHEDULE

1. 4" thick cast-in-place concrete slab double broom finish surface. slope slabs evenly down from edges of drain.
2. robertson grating products, inc., (or equivalent) 2'-3" wide x 1 3/8" thickness h/d steel grate, w/ 4" x 1 3/8" spacing; grating style 22w4
3. 4" steel pipe, 5'-4" long. project 3'-6" above finish grade. fill top 6" of pipe with concrete grout and oval top finish. pour concrete foundation a minimum of 7" thick around base of pipe (see detail sheet A-3).
4. 8" concrete block with ceramic tile
5. prefabricated wood trusses @ 24" o.c.
6. boom and mounting plate by C.W.E. supplier. space center hat sections as shown to accomodate the boom plates.
7. coin meter enclosure and vault supplied with C.W.E. (or equiv.) vault is 8" x 16" $1,000 capacity (typ). mount top 5'-6" above slab. provide #4 rebar welded to sides of meter enclosure and safe at center line of wall. fill all voids in masonry within area of meter and vault solid with grout. (typical install; may vary based on owner's decision)



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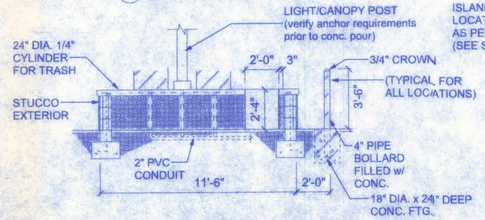

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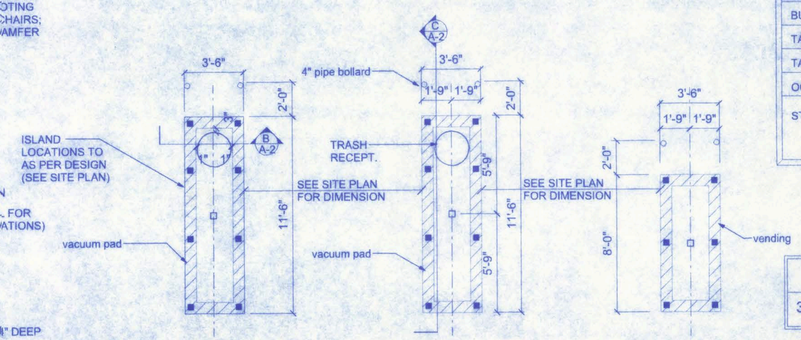

VACUUM ISLAND DETAILS

NOTE:
OVERALL DESIGN OF VACUUM ISLANDS MAY VARY; TYPICAL DESIGN AND LAYOUT SHOWN HERE; FINAL DESIGN MAY BE @ THE DISCRETION OF THE GENERAL CONTRACTOR OR CAR WASH DESIGNER; IF CHANGES ARE MADE, AS-BUILT PLANS ARE TO BE SUBMITTED TO THE PERMITTING AUTHORITY.

BUILDING USE, CLASSIFACATION & OCCUPANCY AS PER TABLES 500 & 1003.1, FLORIDA BUILDING CODE, 2001 ED.	
BUILDING GROUP OCCUPANCY	GROUP B
TABLE 500 TYPE OF CONSTRUCTION	TYPE VI - UNPRO.
TABLE 500 AREA/HEIGHT LIMITATIONS	9,000 SF/2 STORY
OCCUPANCY	
STORAGE AREA: 1:300 SF GROSS 408 SF / 300 = 1.36	2 OCCUPANTS

PRODUCT CODE	SIZE	COUNT
3068 EXT. STEEL, 3/4 HR FIRE RATED	3'-0"	1

10/29/07
P.E. #50001

RIGSBY ENTERPRISES CAR WASH FACILITY

161 NW MADISON STREET
SUITE #102
LAKE CITY, FL 32055
(386)758-4209
CERTIFICATE OF AUTHORIZATION # 00008701
Freeman Design Group INC.

DATE 8/30/07
DRAWN BY J.T.D.
REVISIONS

SHEET A-2
OF 10
PROJECT NO. 07.C025

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AS PER F.B.C. 1003.7.1, OIL SEPARATORS SHALL HAVE A DEPTH OF NO LESS THAN 2 FT BELOW THE INVERT OF THE DISCHARGE DRAIN, AND THE OUTLET OPENING OF THE SEPARATOR SHALL NOT HAVE LESS THAN AN 18 INCH WATER SEAL.

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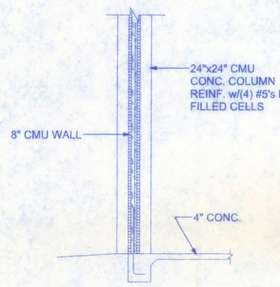

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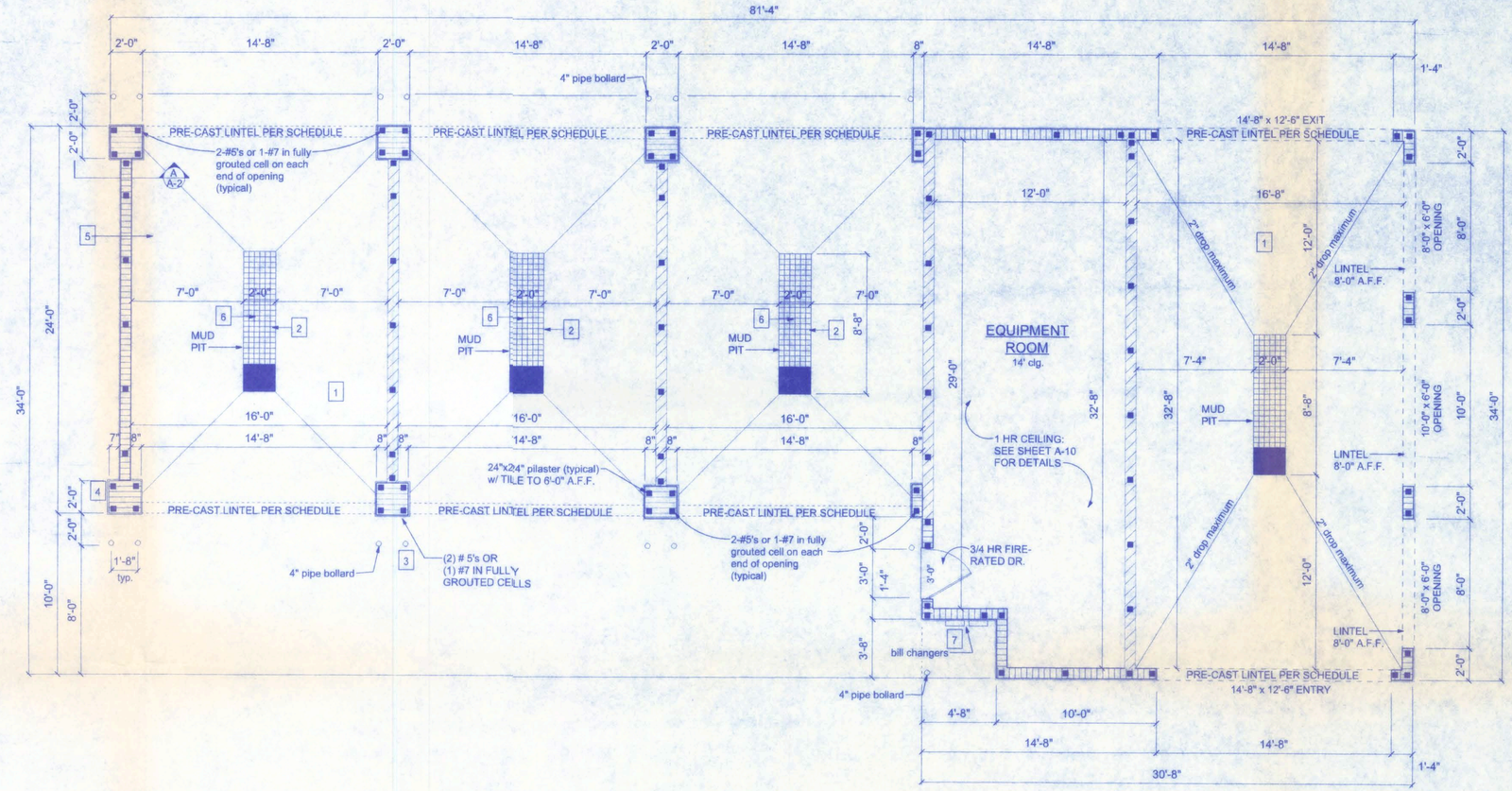

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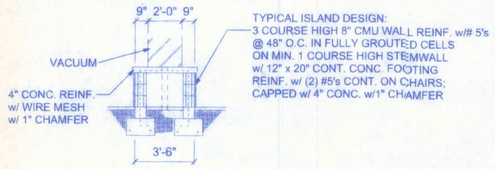

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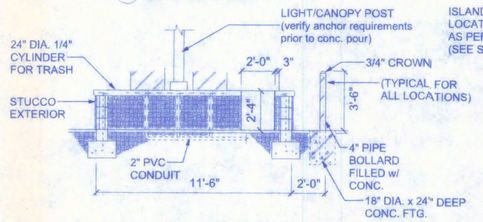
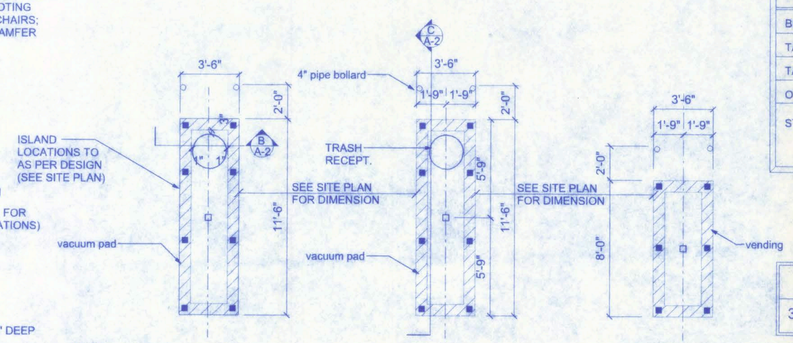


(C) SECTION THRU



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VACUUM ISLAND DETAILS

BUILDING USE, CLASSIFACATION & OCCUPANCY AS PER TABLES 500 & 1003.1, FLORIDA BUILDING CODE, 2001 ED.	
BUILDING GROUP OCCUPANCY	GROUP B
TABLE 500 TYPE OF CONSTRUCTION	TYPE VI - UNPRO.
TABLE 500 AREA/HEIGHT LIMITATIONS	9,000 SF/2 STORY
OCCUPANCY	
STORAGE AREA: 1:300 SF GROSS 408 SF / 300 = 1.36	2 OCCUPANTS

PRODUCT CODE	SIZE	COUNT
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Freeman Design Group inc

P.E. # 35001

DATE	DRAWN BY
8/30/07	J.T.D.

REVISIONS

SHEET A-2 OF 10

PROJECT NO. 07.C025

Permit #36078

REVISIONS
April 19th, 2017

FLORIDA BUILDING CODE

Compliance Summary

TYPE OF CONSTRUCTION

Roof: BY OTHERS
Walls: 2x4/6 Wood Studs @ 16" O.C.
Floor: 4" Thk. Concrete Slab W/ Fibermesh Concrete Additive
Foundation: Continuous Footer/Stem Wall

ROOF DECKING

Material: 1/2" CD Plywood or 7/16" O.S.B.
Sheet Size: 48"x96" Sheets Perpendicular to Roof Framing
Fasteners: .113 RING SHANKED Nails per schedule on sheet S.4

SHEARWALLS

Material: 1/2" CD Plywood or 7/16" O.S.B.
Sheet Size: 48"x96" Sheets Placed Vertical
Fasteners: .113 RING SHANKED Nails @ 4" O.C. Edges & 8" O.C. Interior
Dragstrut: Double Top Plate (S.Y.P.) W/16d Nails @ 12" O.C.
Wall Studs: 2x4 Studs @ 16" O.C.

HURRICANE UPLIFT CONNECTORS

Wall Tension: Wall Sheathing Nailing is Adequate - 8d @ 4" OC. Top & Bot.
Anchor Bolts: 1/2" A307 Bolts @ 48" O.C. - 1st Bolt 6" from corner
Corner Hold-down Device: (1) HDSs @ each corner
Porch Column Base Connector: Simpson ABU66 @ each column
Porch Column to Beam Connector: Simpson MSTA20 (2 ea. sides) or Simpson EPC66 or 2 - 5/8" thru bolts

FOOTINGS AND FOUNDATIONS

Footing: 20"x10" Cont. W/ 2 - #5 Bars Cont. on wire/plastic chairs @ 48" o.c.
Stemwall: 8" C.M.U. W/1-#5 Vertical Dowel @ 48" O.C.

FRAMING ANCHOR SCHEDULE

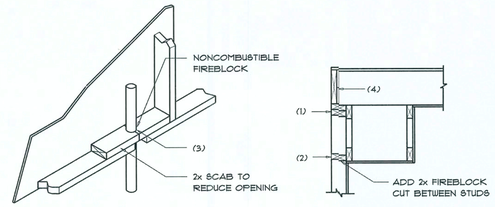
APPLICATION	MANUF'R/MODEL	CAP.
HEADER TO KING STUD(S):	SIMPSON ST22	1370*
PLATE TO STUD:	SIMPSON SP4	885*
STUD TO SILL:	SIMPSON SP4	885*
PORCH BEAM TO POST:	SIMPSON PC44, MSTA24 OR THRU BOLTED W/ (2) 5/8" BOLTS	1700* OR EQUAL
PORCH POST TO FND.:	SIMPSON ABU44	2200*
MISC. JOINTS	SIMPSON A34	315#/240*

** ALTERNATE CONNECTORS ARE ACCEPTED OF EQUAL CAPASITY **

NOTE:
ALL ANCHORS SHALL BE SECURED W/ NAILS AS PRESCRIBED BY THE MANUFACTURER FOR MAXIMUM JOINT STRENGTH, UNLESS NOTED OTHERWISE.

NOTE:
REFER TO THE INCLUDED STRUCTURAL DETAILS FOR ADDITIONAL ANCHORS/ JOINT REINFORCEMENT AND FASTENERS.

NOTE:
ALL UNLISTED JOINTS IN THE LOAD PATH SHALL BE REINFORCED WITH SIMPSON A34 FRAMING ANCHORS, TYPICAL T.O.



PENETRATIONS

SOFFIT/DROPPED CLG.

FIREBLOCKING NOTES:

FIREBLOCKING SHALL BE INSTALLED IN WOOD FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:

1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.
2. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, COVE CEILINGS, ETC.
3. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH "PYROPANEL MULTIFLEX SEALANT"
4. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS, FIREBLOCKING SHALL BE PROVIDED FOR THE FULL DEPTH OF THE JOISTS AT THE ENDS AND OVER THE SUPPORTS.

Fire Stopping DETAILS (A)

SCALE: NONE

STRUCTURAL DESIGN CRITERIA:

1. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2011 FLORIDA BUILDING CODE - SECTION 1609 AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITION AT TIME OF PERMIT.

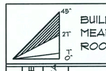
2. WIND LOAD CRITERIA: RISK CATAGORY: 2, EXPOSURE: "B"

BASED ON ANSI/ASCE 7-10, 2011 FBC 1609-A WIND VELOCITY: V_{ULT} = 130 MPH
V_{ASD} = 101 MPH

3. ROOF DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: . . . . . 20 PSF
SUPERIMPOSED LIVE LOADS: . . . . . 20 PSF

4. FLOOR DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: . . . . . 25 PSF
SUPERIMPOSED LIVE LOADS:
RESIDENTIAL . . . . . 40 PSF
BALCONIES . . . . . 60 PSF

5. WIND NET UPLIFT: ARE AS INDICATED ON PLANS

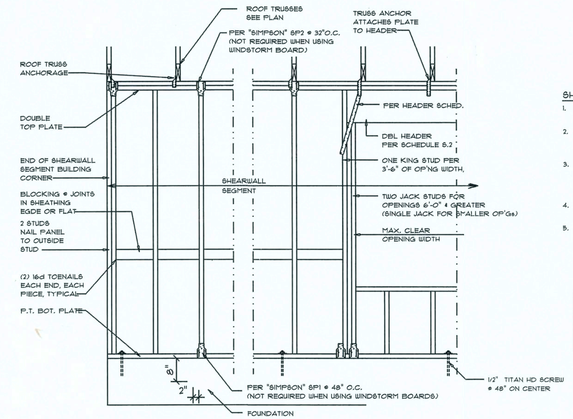


BUILDING COMPONENTS & CLADDING LOADS
MEAN BUILDING HEIGHT = 30.0', EXPOSURE "B"
ROOF ANGLE 27° TO 45°

	ZONE	AREA	Vult 110 MPH	Vult 130 MPH	Vult 130 MPH	Vult 140 MPH
ROOF 27° TO 45°	1	10	19.9 / -21.8	23.7 / -25.9	27.8 / -30.4	32.3 / -35.3
	1	20	19.4 / -20.7	23.0 / -24.6	27.0 / -28.9	31.4 / -33.5
	1	50	18.6 / -19.2	22.2 / -22.8	26.0 / -26.8	30.2 / -31.1
	2	10	19.9 / -25.5	23.7 / -30.3	27.8 / -35.6	32.3 / -41.2
	2	20	19.4 / -24.3	23.0 / -29.0	27.0 / -34.0	31.4 / -39.4
	2	50	18.6 / -22.9	22.2 / -27.2	26.0 / -32.0	30.2 / -37.1
	3	10	19.9 / -25.5	23.7 / -30.3	27.8 / -35.6	32.3 / -41.2
	3	20	19.4 / -24.3	23.0 / -29.0	27.0 / -34.0	31.4 / -39.4
	3	50	18.6 / -22.9	22.2 / -27.2	26.0 / -32.0	30.2 / -37.1
WALL	4	10	21.8 / -23.6	25.9 / -34.7	30.4 / -33.0	35.3 / -38.2
	4	20	20.8 / -22.6	24.7 / -26.9	29.0 / -31.6	33.7 / -36.7
	4	50	19.5 / -21.3	23.2 / -25.4	27.2 / -29.8	31.6 / -34.6
	5	10	21.8 / -29.1	25.9 / -34.7	30.4 / -40.7	35.3 / -47.2
	5	20	20.8 / -27.2	24.7 / -32.4	29.0 / -38.0	33.7 / -44.0
	5	50	19.5 / -24.6	23.2 / -29.3	27.2 / -34.3	31.6 / -39.8

HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENTS FOR BUILDING COMPONENTS & CLADDING

BLDG HEIGHT	EXPOSURE "B"	EXPOSURE "C"	EXPOSURE "D"
15	1.00	1.21	1.47
20	1.00	1.29	1.55
25	1.00	1.35	1.61
30	1.00	1.40	1.66



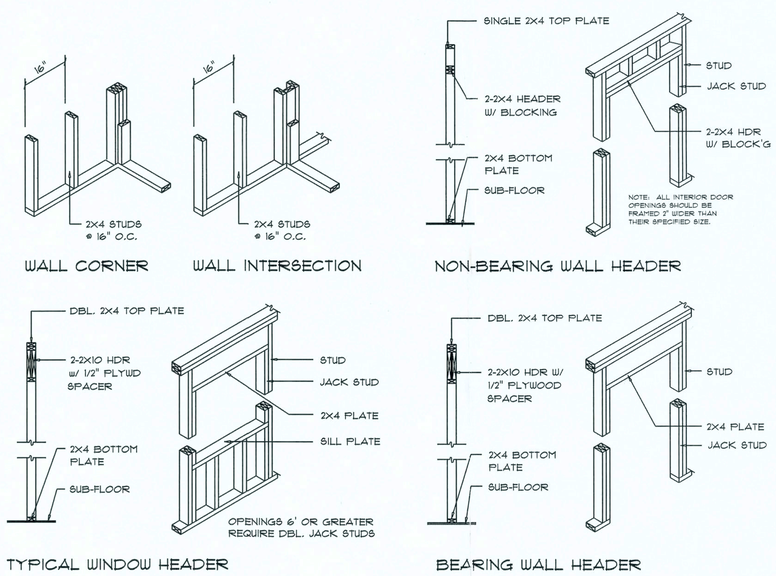
SHEARWALL NOTES:

1. ALL SHEARWALLS SHALL BE TYPE 2 SHEARWALLS AS DEFINED BY STD 10-97 SBBCI 305.4.3.
2. THE WALL SHALL BE ENTIRELY SHEATHED WITH 7/16" WINDSTORM BD INCLUDING AREAS ABOVE AND BELOW OPENINGS
3. ALL SHEATHING SHALL BE ATTACHED TO FRAMING ALONG ALL FOUR EDGES WITH JOINTS FOR ADJACENT PANELS OCCURING OVER COMMON FRAMING MEMBERS OR ALONG BLOCKING.
4. NAIL SPACING SHALL BE 6" O.C. EDGES AND 12" O.C. IN THE FIELD.
5. TYPE 2 SHEARWALLS ARE DESIGNED FOR THE OPENING IT CONTAINS. MAXIMUM HEIGHT OF OPENING SHALL BE 3/4 TIMES THE WALL HEIGHT. THE MINIMUM DISTANCE BETWEEN OPENINGS SHALL BE THE WALL HEIGHT/3.5 FOR 8'-0" WALLS (2'-3").

OPENING WIDTH	SILL PLATES	16d TOE NAILS EACH END
UP TO 6'-0"	(1) 2x4 OR (1) 2x6	1
> 6' TO 9'-0"	(3) 2x4 OR (1) 2x6	2
> 9' TO 12'-0"	(5) 2x4 OR (2) 2x6	3

Shear Wall DETAILS (E)

SCALE: NONE



Wall Framing/Header DETAILS (F)

SCALE: NONE

A CUSTOM RESIDENCE FOR:
ROGERS RESIDENCE
COLUMBIA COUNTY, FL

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SHEET NUMBER
S.2
OF 2 SHEETS

22 July 2016