Royal Palm Beach Commons
for the village of
Royal Palm Beach

900 ROYAL PALM BEACH BLVD.,
ROYAL PALM BEACH, FL 33411

ZONING:
PO (PUBLIC OWNERSHIP)

LAND USE:
PUBLIC PARK

SIZE OF SITE:
163.47 ACRES

REQUIRED PARKING (SITE TOTAL):
REQUIRED 178
PROVIDED 213

OCCUPANCY:
"L" OCCUPANCY

BUILDING TYPE:
TYPE VB

PROPOSED BUILDING TOTAL GROSS FLOOR AREA:
506 Square Feet Interior
2,445 Square Feet Exterior
2,951 Square Feet Total

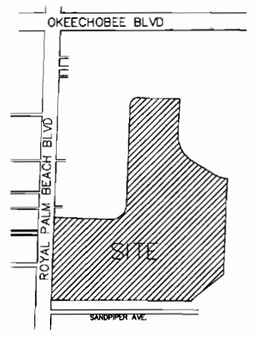
OCCUPANCY LOAD
506 / 50 = 11 PERSONS

Project Architect
IBI Group, Inc.
2200 Park Central Blvd. N Suite 100
Pompano Beach, Florida 33064
(954) 974-2200

Structural - Mechanical - Electrical - Plumbing Engineers
DeRose Design Consultants , Inc.
470 South Andrews Avenue, Pompano Beach, FL 33069
(954) 942-7703

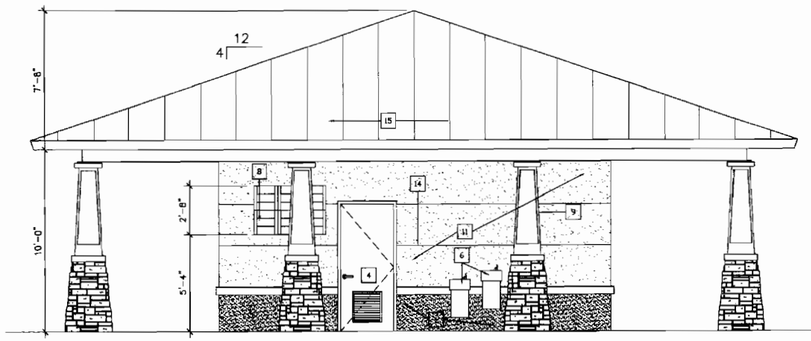
December 01, 2008
BID SET

Index of Drawings

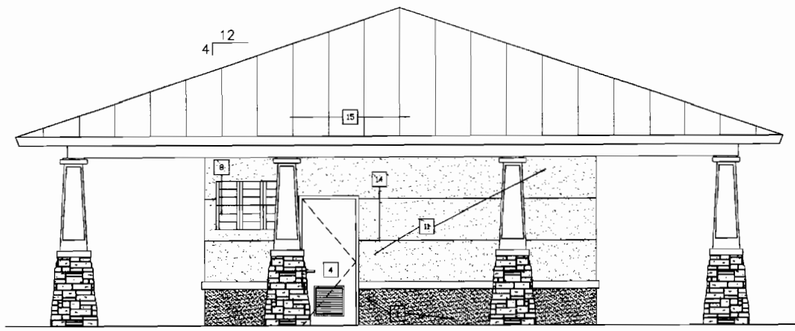


LOCATION MAP
NOT TO SCALE

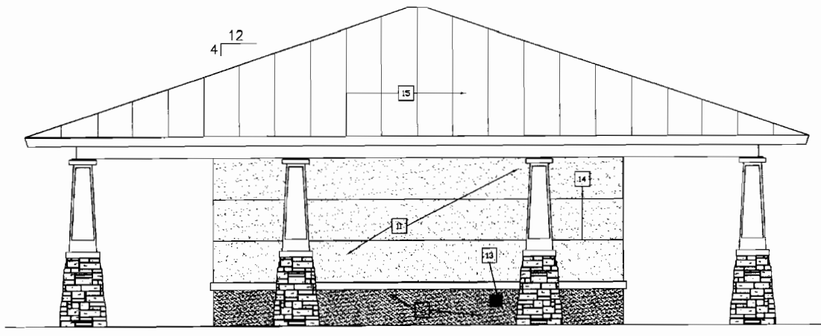
FEB 9 2009



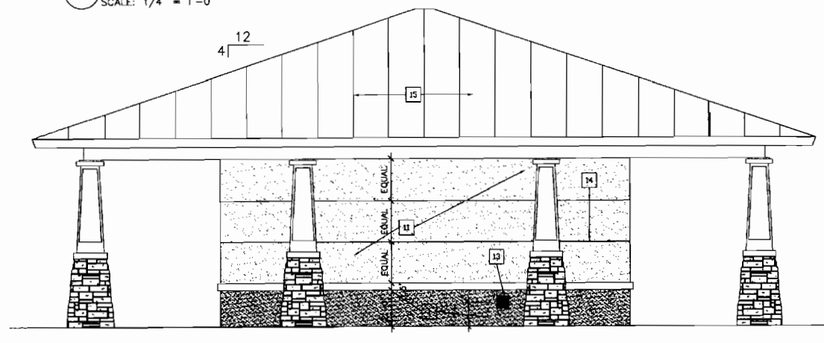
2 FRONT ELEVATION
SCALE: 1/4" = 1'-0"



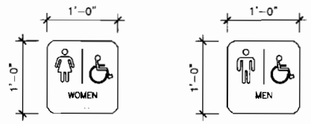
3 REAR ELEVATION
SCALE: 1/4" = 1'-0"



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

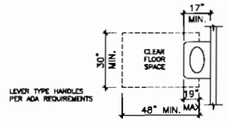


5 LEFT SIDE ELEVATION
SCALE: 1/4" = 1'-0"

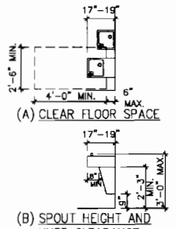


RAISED LETTERS, BRAILLE & SYMBOLS IN ACCORDANCE WITH ADA.
ALL CORNERS TO BE ENGRAVED.
BACKGROUND AND LETTERING COLOR TO BE DETERMINED.
MOUNTING METHOD TO BE VINYL TAPE, MOUNTING HEIGHT TO BE 5'-0" A.F.F. TO CENTER OF SIGN.
SUBMIT SHOP DRAWINGS FOR ARCHITECT'S APPROVAL PRIOR TO FABRICATION.

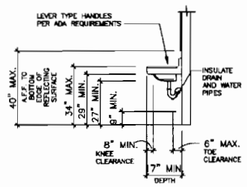
REQUIRED SIGNAGE DETAILS
SCALE: 1-1/2" = 1'-0"



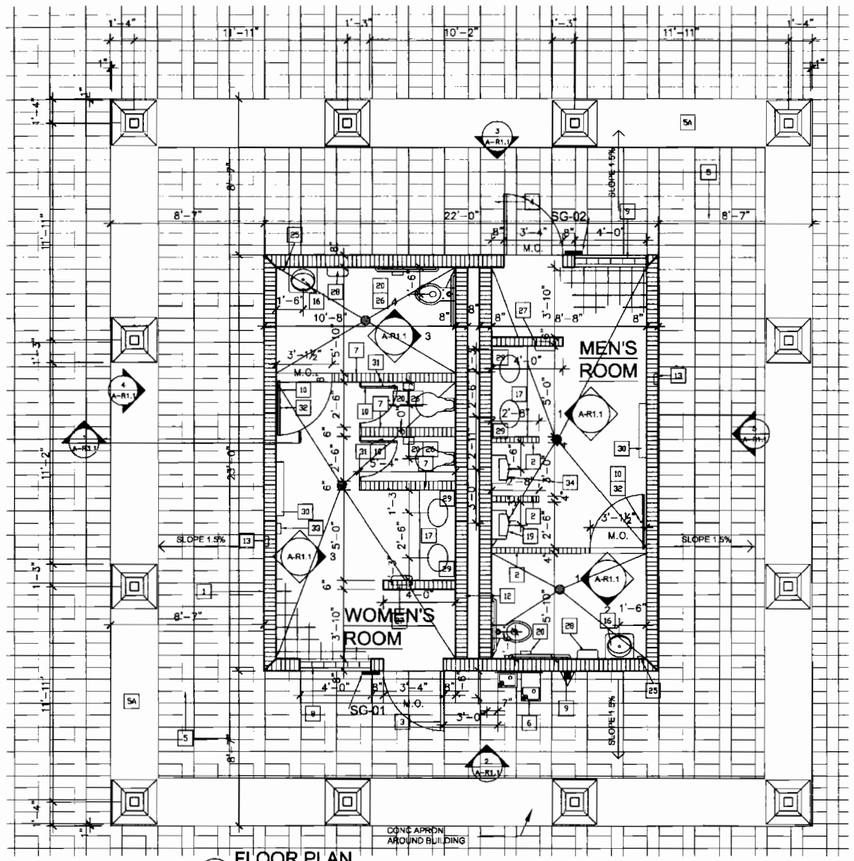
CLEAR FLOOR SPACE AT HANDICAP LAVATORIES



DRINKING FOUNTAIN



HANDICAP APPROVED LAVATORY CLEARANCES



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

NOTE:
SEE CIVIL DRAWINGS FOR BUILDING LOCATION & ORIENTACION

WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALE DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

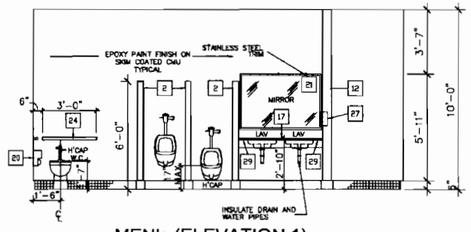
FLOOR PLAN & BUILDING ELEVATIONS KEY NOTES

1. 8" C.M.U. WALL w/ 5/8" PAINTED TEXTURED FINISH STUCCO & CONTROL JOINTS
2. 4" WIDE x 6'-0" HIGH MASONRY TOILET PARTITION w/ STUCCO & 2 COATS OF EPOXY PAINT. SEE STR. DWGS. FOR FOOTING & CAP DETAILS
3. 3'-0" x 7'-0" HOLLOW METAL LOUVERED DOOR w/ CLOSER & ACCESSIBLE HARDWARE. 12"x18" LOUVER (SEE DOOR SCHEDULE)
4. PRODUCT APPROVED METAL DOOR WITH LOUVER. VERIFY LOUVER SIZE WITH MECHANICAL DRAWINGS. AS SPECIFIED.
5. CONC. PAVERS AROUND RESTROOM BUILDING (SEE CIVIL DWGS. FOR WALKWAY CONTINUATION)
5A. CONC. APRON AROUND RESTROOM BUILDING (SEE CIVIL AND STRUCTURAL DWGS. FOR WALKWAY CONTINUATION)
6. STAINLESS STEEL FINISH ADA COMPLIANT BI-LEVEL DRINKING FOUNTAIN (ELKAY, OASIS or EQUAL)
7. 6" WIDE x 6'-0" HIGH MASONRY TOILET PARTITION w/ STUCCO & 2 COATS OF EPOXY PAINT. SEE STR. DWGS. FOR FOOTING & CAP DETAILS
8. 16" x 16" x 4" CONC. BLOCK LOUVERS, SET BLOCKS IN 4 ROWS OF 6. PROVIDE FULL SCREEN AT INTERIOR SIDE OF LOUVER BLOCK OPENING. AS SPECIFIED.
9. SEMI-RECESSED FIRE EXTINGUISHER CABINET
10. SOLID POLYMER DOORS
11. 8" C.M.U. WALL w/ 5/8" PAINTED SMOOTH FINISH STUCCO & CONTROL JOINTS
12. 6" WIDE x 10'-3" HIGH MASONRY TOILET PARTITION w/ STUCCO & 2 COATS OF EPOXY PAINT. SEE STR. DWGS. FOR FOOTING & CAP DETAILS
13. RECESSED WALL HYDRANT IN LOCK BOX
14. "V" ZINC CONTROL JOINT (SIM. TO US GYPSUM #75)
15. GALVALUME STANDING SEAM METAL ROOF ON SLIP SHEET OVER 30# FELT OVER 5/8" CDX PLYWOOD ON PRE-ENGINEERED WOOD TRUSSES AT 24" O.C. MAX., w/ 8d @ 6" C/C FIELD & 4" AT FASCIA & OVERHANG

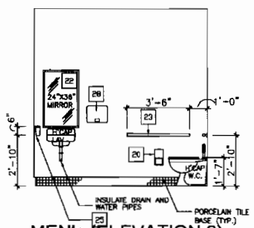
RESTROOM FIXTURES AND ACCESSORIES
(ACCESSORIES MODEL NUMBERS ARE FROM "BOBRICK WASHROOM EQIPMENT")

16. LAVATORY – WALL HUNG
17. ONE PIECE – VANITY WITH LAVS. SEE FINISH SCHEDULE
18. WATER CLOSET – FLOOR MOUNTED (H.C. WATER CLOSET IN H.C. STALL)
19. URINAL
20. TOILET TISSUE DISPENSER B-2888
21. MIRROR 2'-10" HIGH x VANITY WIDTH W/STAINLESS STEEL FRAME
22. MIRROR TILT TYPICAL HC STALLS B-293-1830
23. HORIZONTAL GRAB BAR B-6806 X 42
24. HORIZONTAL GRAB BAR B-6806 X 36
25. SOAP DISPENSER B-2112 (H.C.)
26. FEMININE NAPKIN DISPOSAL B-270
27. ELECTRIC HAND DRYER RECESSED B-750
28. ELECTRIC HAND DRYER SURFACE MOUNTED B-709
29. SOAP DISPENSER B-8226 (6" SPOUT LENGTH)
30. BABY CHANGING STATION KB100-OG (PLACE CENTERED TO VANITY ON WALL ACCROSS)
31. COAT HOOK/BUMPER B-212
32. COAT HOOK B-2116
33. B-282-25 FEMALE SANITARY NAPKIN DISPENSER.
34. H.C. URINAL

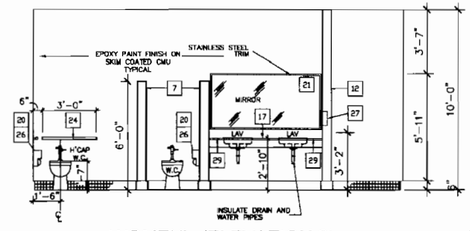
NOTE:
ALL ACCESSORIES SHALL COMPLY w/ THE LATEST REGULATIONS OF THE AMERICANS w/ DISABILITIES ACT (A.D.A.)



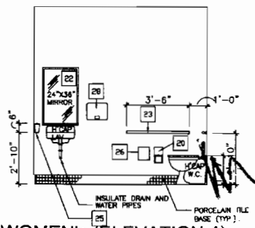
MEN's (ELEVATION 1)



MEN's (ELEVATION 2)



WOMEN's (ELEVATION 3)



WOMEN's (ELEVATION 4)

6 RESTROOM ELEVATIONS
SCALE: 1/4" = 1'-0"

The Village of ROroyal Palm Beach
Designed: WRS
Drawn: WRS
Checked: MS

No.	Revisions	Date	By
	PRICING SET	09/27/07	
	75% SUBMITTAL	12/19/07	
	PERMIT REVIEW	02/29/08	
	BID SET	12/01/08	

14093

ARCHITECTS, PLANNERS
2800 Park Central Blvd. North, Suite 100
Pompano Beach, Florida 33064
AA-26001019
IBI GROUP

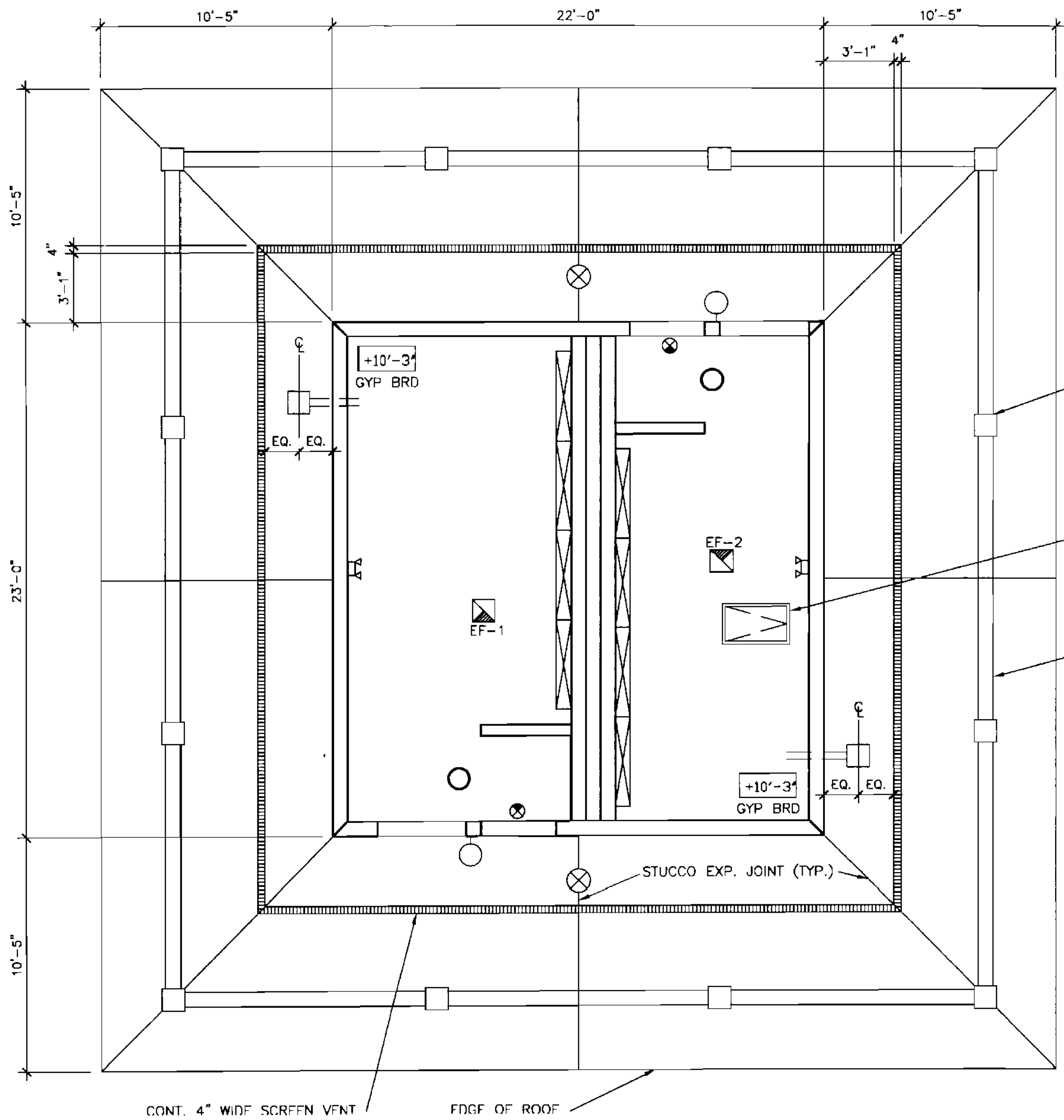
ROYAL PALM BEACH COMMONS
RESTROOM FACILITY
FLOOR PLAN / ELEVATIONS

FEB 19 2009

RPB NO: EN - PR0701
Sheet Reference Number
A-R1.1
Sheet 2 of 4

File Name: J:\14093\5.9 Drawings\59arch\layouts\14093-Restroom Pavilion\14093-restrm-A1.1 Floor plan & Elevations.dwg

PLOT DATE: Mar 11 2009



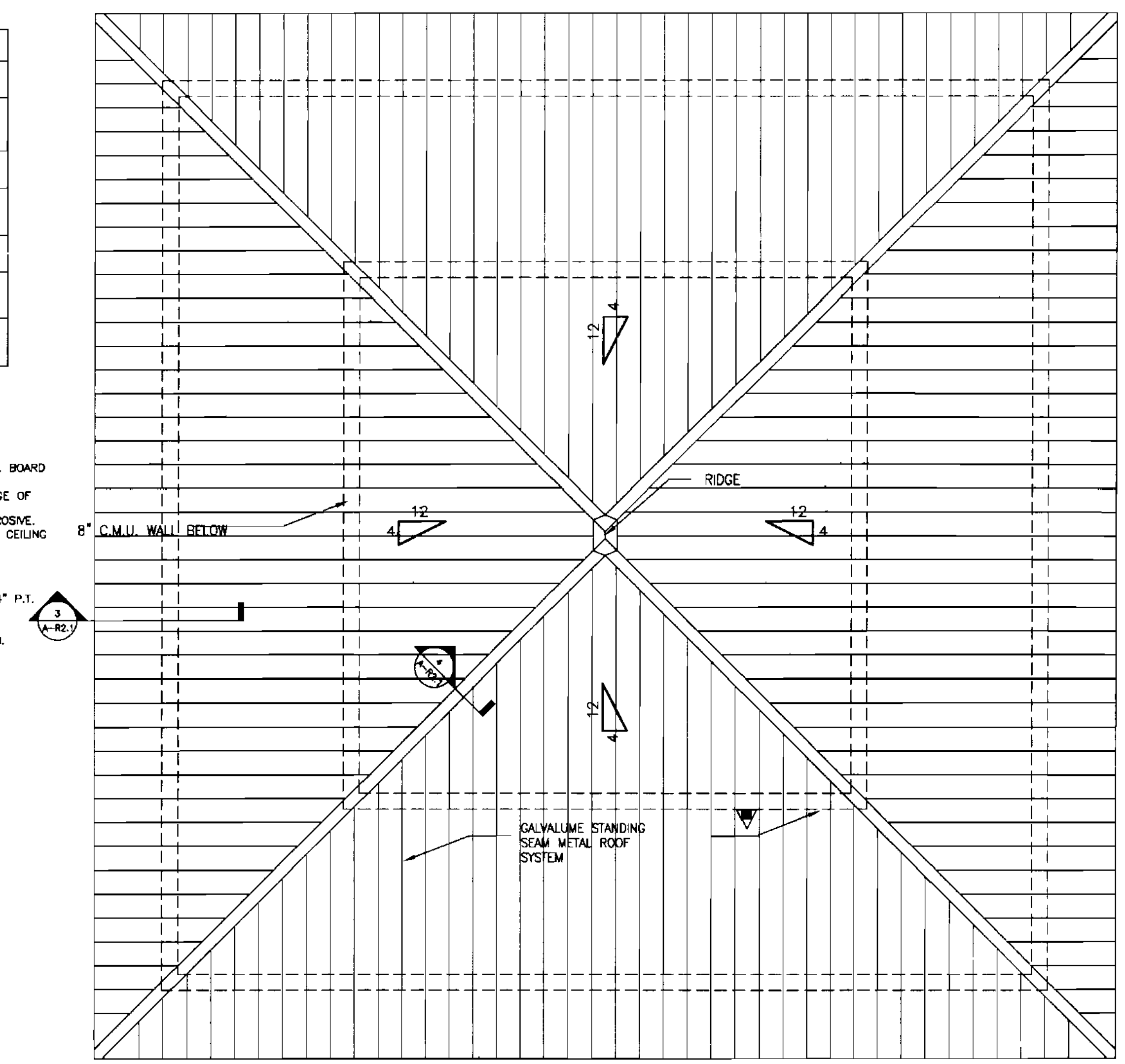
1 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

LEGEND: SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR SPECIFIC DESRIPTIONS	
1'X4' FLUORESCENT	
VANDAL RESISTANT SURFACE MTD. SOFFIT LIGHTS	
EXIT LIGHT	
EMERGENCY LIGHT	
NYLON SCREEN VENT	
FLUSH MOUNTED EXHAUST FAN	
SOFFIT MOUNTED EXHAUST LOUVER	

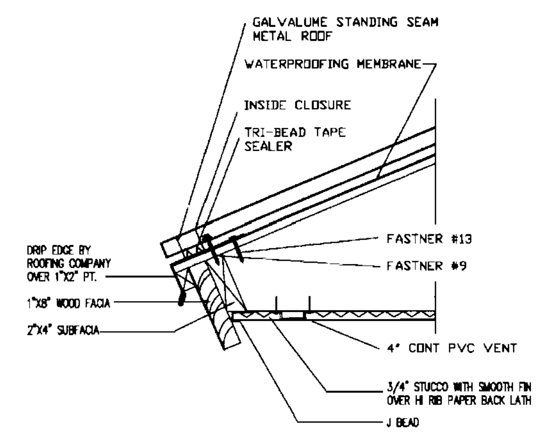
CEILING NOTES

INTERIOR CEILINGS:
- 2 COATS OF EPOXY PAINT (COLOR BY OWNER) ON 5/8" GYP. BOARD ON 1"x4" P.T. WOOD FURRING @ 16" O.C.
- FIRST FURRING STRIP TO BE LOCATED MAXIMUM 4" FROM EDGE OF CEILING.
- ALL EXPOSED FASTENERS, HARDWARE, ETC. TO BE NON-CORROSIVE.
- PROVIDE INSULATION (R-19 MIN. VALUE) ABOVE ALL INTERIOR CEILING AREAS.

EXTERIOR CEILING / SOFFIT:
- 5/8" PAINTED STUCCO ON HIGH RIBBED METAL LATH ON 1"x4" P.T. FURRING @16" O.C. SECURED TO WOOD TRUSSES.
- PROVIDE "V" STUCCO EXP. JOINTS WHERE SHOWN ON PLAN.
- INSTALL 4" CONT. NYLON SCREEN VENTS AS SHOWN ON PLAN.



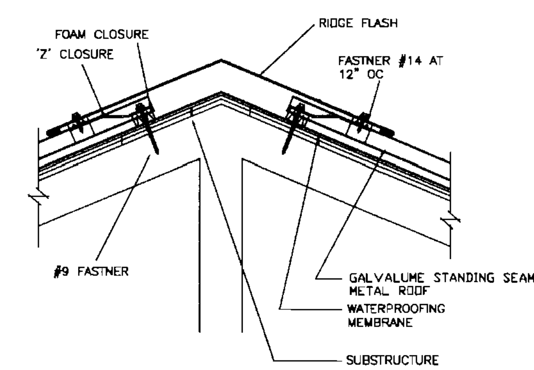
2 ROOF PLAN
SCALE: 1/4" = 1'-0"



NOTES:

1. ATTACH EAVE TRIM TO ROOF DECK WITH FASTNERS #13 (10X1" PANCAKE HEAD) (2 FASTNERS PER 10'-0" SECTION).
2. INSTALL TRI BEAD TAPE SEALER ALONG LEG OF EAVE TRIM. INSTALL INSIDE CLOSURE ON TOP OF TRI BEAD TAPE SEALER. APPLY A BEAD OF URETHANE SEALANT TO TOP PF OUTSIDE CLOSURE.
3. ATTACH PANEL AT EAVE WITH FASTNER #9(10X1-1/2" LONG LIFE WOODGRIP).

3 EAVE DETAIL
SCALE: 1-1/2" = 1'-0"



NOTES:

1. STOP PANELS 2" FROM CENTER LINE OF RIDGE
2. INSTALL FIRST ROW OF FASTNERS ACROSS PANEL SUBSTRATE 1'-0" DOWN FROM THE BOTTOM EDGE OF TRIM AND SPACE 1'-0" O.C
3. INTALL TRI BEAD TAPE SEALER ACROSS WIDTH OF PANELS. TOP EDGE OF TAPE SEALER IS 1-3/4" FROM TOP EDGE OF PANEL. INSTALL OUTSIDE CLOSURES ON TOP OF TRI BEAD TAPE SEALER. INSTALL ADDITIONAL RUN OF TAPE SEALER ON TOP OF OUTSIDE CLOSURE.
4. ATTACH RIDGE FLASH WITH FASTNERS #9(10X1-1/2 LONG LIFE WOODGRIP) 1'-0" O.C. INSTALL FASTENERS AT EACH 'V' IN THE PANEL TO AVOID DIMPLING THE RIDGE FLASH.

4 RIDGE DETAIL
SCALE: 1-1/2" = 1'-0"

THIS PLAN CONFORMS TO
FBC 2004 EDITION

FEB 1 9 2009

FINISH SCHEDULE				
ROOM	FLOOR	WALLS	CEILING	REMARKS
WOMEN'S ROOM	PT	EPX/SK	EPX/GWB	6" HT. CT COVE BASE
MEN'S ROOM	PT	EPX/SK	EPX/GWB	6" HT. CT COVE BASE

PT = PORCELAIN TILE
CTW = PORCELAIN TILE WAINSCOT
EPX /GWB= EPOXY PAINT ON MOISTURE RESISTANT GYP. WALL BOARD
EPX/SK = EPOXY PAINT ON SKIM COATED C.M.U.
GWB= GYP. WALL BOARD

FINISH NOTES

1.- ALL EXPOSED SURFACES SHALL BE PAINTED CUSTOM COLORS AS SELECTED BY THE ARCHITECT.

2.- ALL PORCELAIN TILE COLORS AND TEXTURE SHALL BE AS SELECTED BY ARCHITECT FROM SPECIFIED PRODUCT. (REFER TO SPECIFICATIONS).

3.- ALL PORCELAIN TILE BASE SHALL BE AS SPECIFIED. (REFER TO SPECIFICATIONS).

4.- ALL FIXTURES AND ACCESSORIES LOCATED IN HANDICAP ACCESSIBLE STALLS SHALL BE HANDICAP ACCESSIBLE APPROVED.

5.- ALL TOILET PARTITIONS SHALL HAVE SOLID PLASTIC DOORS (REFER TO SPECIFICATIONS)

The Village of ROYAL PALM BEACH

	By:
Designed:	
Drawn:	WRS
Checked:	MS

No.	Revisions	Date	By
	PRICING SET	08/27/07	
	75% SUBMITTAL	12/18/07	
	PERMIT REVIEW	03/28/08	
	BID SET	12/01/08	

14093

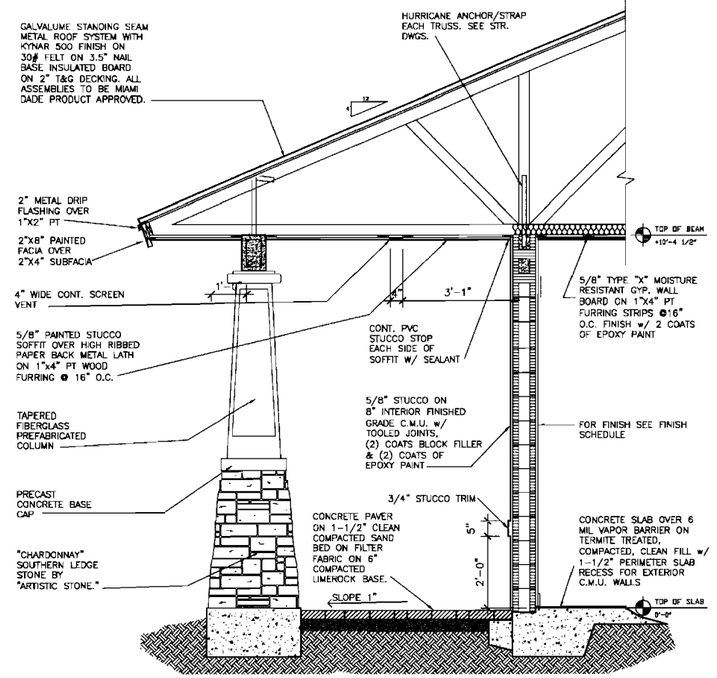
IBI GROUP
ARCHITECTS, PLANNERS

ROYAL PALM BEACH COMMONS
RESTROOM FACILITY
ROOF PLAN / REFLECTED CEILING PLAN

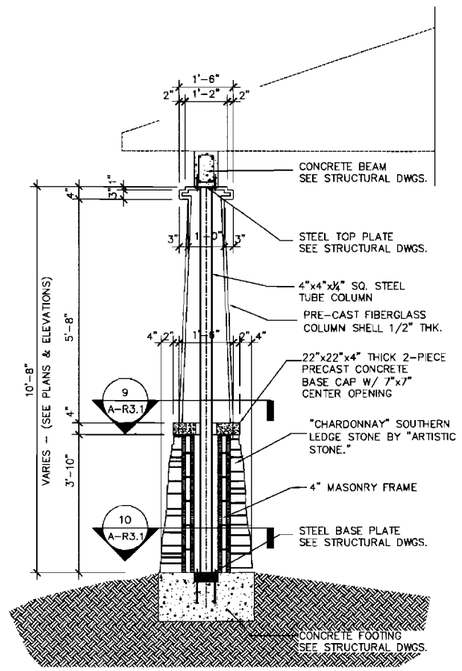
RPB NO: EN - PR0701
Sheet Reference Number
A-R2.1
Sheet 3 of 4

File Name: J:\14093\5.9 Drawings\59arch\layouts\14093-Restroom Pavilion\14093-restrm-A2.1 Roof Plan & reflected Ceiling.dwg

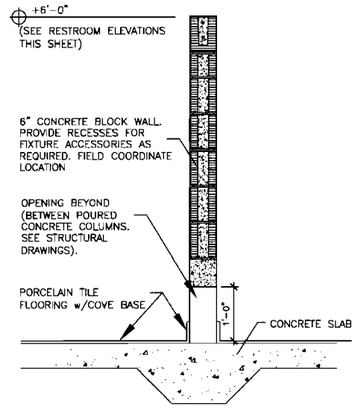
PLOT DATE: Mar 11 2009



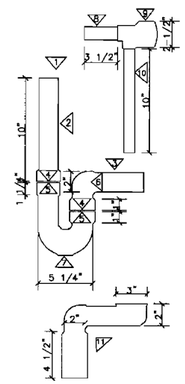
1 TYP. EXTERIOR WALL SECTION
SCALE: 1/2" = 1'-0"



2 TYP. EXTERIOR COLUMN SECTION
SCALE: 1/2" = 1'-0"

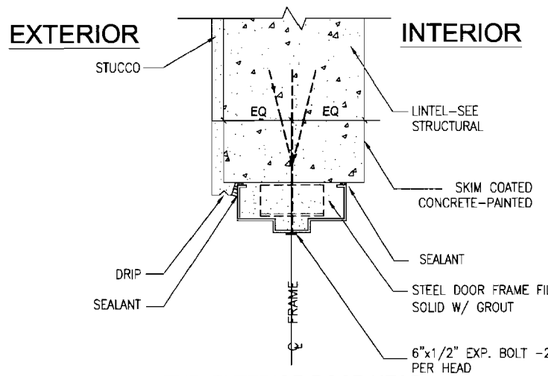


3 TYPICAL TOILET PARTITION
SCALE: 3/4" = 1'-0"

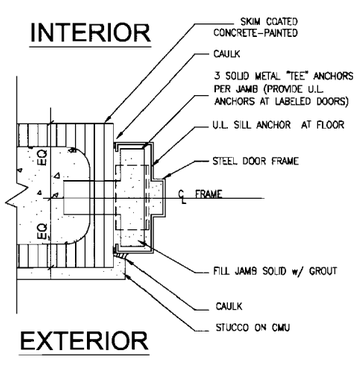


1. 1-7/8" I.D. TO ACCOMMODATE NEARLY ALL 1-1/4" AND 1-1/2" CAST BRASS, SEMI-CAST BRASS, AND P.V.C. P-TRAPS (DOES NOT FIT SCHEDULE 40 P.V.C.)
2. 10" TAIL PIPE (TRIM AS NEEDED TO COVER ENTIRE PIPE)
3. 10" WASTE ARM (TRIM AS NEEDED TO COVER ENTIRE PIPE)
4. TAIL PIECE & WASTE ARM COVERS OVERLAP J-BEND TO PROVIDE A CLEAN FINISHED APPEARANCE.
5. NUT STRUCTURE ENCLOSURES ON ENDS OF J-BEND COVER ALLOW ACCOMMODATION OF VARIOUS J-BEND SIZES.
6. ELBOW ON INSULATION IS ENLARGED TO ACCOMMODATE FEMALE ELBOW ON WASTE LINE.
7. ALLOWANCE FOR CLEAN OUT NUT DEPTH AND EASY ACCESS TO CLEAN OUT BY REMOVING J-BEND COVER.
8. 3" WATER LINE EXTENSION FOR FULL COVERAGE OF EXTENDED SUPPLY PIPES.
9. WATER VALVE INSULATION COMPLETELY COVERS KEYED AND STANDARD ANGLE STOPS.
10. 10" SUPPLY LINE COVER.
11. OFFSET P-TRAP COVER FITS TRAP ON CERTAIN HANDICAP LAVATORIES, (ORDER SEPARATELY) PART 500HS.

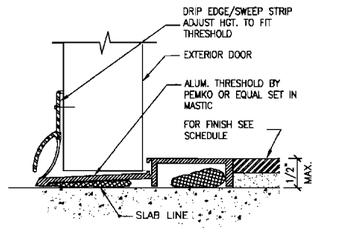
4 PIPE PROTECTION
SCALE: 1/4" = 1'-0"



5 TYP. EXTERIOR DOOR HEAD
SCALE: 3" = 1'-0"



6 TYP. EXTERIOR DOOR JAMB
SCALE: 3" = 1'-0"



7 EXTERIOR THRESHOLD AT RESTROOMS
SCALE: 3" = 1'-0"

DOOR SCHEDULE					
MARK	TYPE	SIZE	REMARKS	WIND PRESSURES	FASTEN
D1	HOLLOW METAL DOOR	3'-0" x 7'-0" x 1 3/4"	2" FACE HM FRAME 1-3/4" THICK HM DOOR SEE DETAIL	– –	PER MANUFACTURER RECOMMENDATION
D2	HOLLOW METAL DOOR	3'-0" x 7'-0" x 1 3/4"	2" FACE HM FRAME 1-3/4" THICK HM DOOR SEE DETAIL	– –	PER MANUFACTURER RECOMMENDATION

NOTES

SEE TYPICAL DOOR HEAD AND JAMB DETAILS IN THIS SHEET FOR ALL INTERIOR & EXTERIOR DOORS.

SEE TECHNICAL SPECIFICATION SECTION Nos. 08110, 08700 AND 10170 FOR ADDITIONAL REQUIREMENTS.

DADE COUNTY PRODUCT APPROVALS MUST BE SUBMITTED AND APPROVED BY THE ARCHITECT/ENGINEER AND BUILDING DEPARTMENT PRIOR TO INSTALLATION.

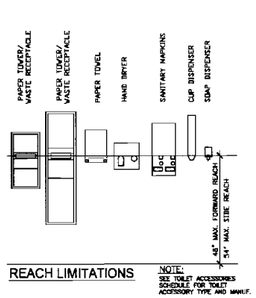
PRODUCT APPROVAL TO BE SUBMITTED AT A LATTER TIME BY CONTRACTOR. ALL PRODUCT APPROVALS MUST BE APPROVED BY ARCHITECT/ENGINEER PRIOR TO INSTALLATION.

HARDWARE SPECIFICATIONS

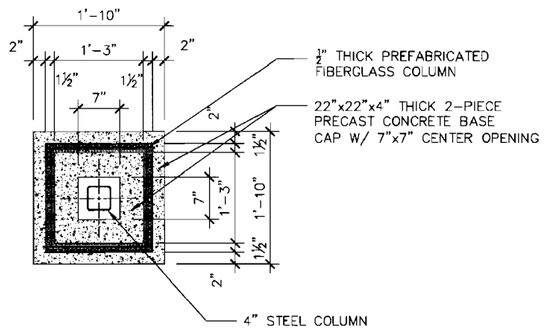
HARDWARE GROUP:
CYLINDER LOCK
HINGES
DOOR STOP
SILENCERS
THRESHOLD
CLOSER
PUSH PLATES
PULL PLATES
KICK PLATES

MANUFACTURER: SCHLAGE
CYLINDER LOCK: CLASSROOM LOCK #L9453
CLOSER: LCN 1070 SERIES w/ PARALLEL ARM MOUNTING

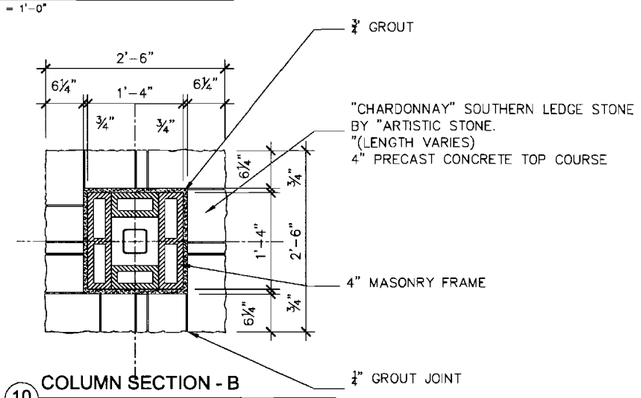
NOTE: ALL HARDWARE SHALL BE STAINLESS STEEL, SATIN FINISH. COORDINATE COMMON KEYING w/ OWNER.



8 REACH LIMITATIONS
SCALE: 1/4" = 1'-0"



9 COLUMN SECTION - A
SCALE: 1/4" = 1'-0"



10 COLUMN SECTION - B
SCALE: 1/4" = 1'-0"

The Village of ROYAL PALM BEACH
INCORPORATED 1959

	By:
Designed:	WRS
Drawn:	WRS
Checked:	MS

No.	Revisions	Date	By
	PRICING SET	09/27/07	
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14093

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IBI GROUP

ROYAL PALM BEACH COMMONS
RESTROOM FACILITY
WALL SECTIONS, SCHEDULES & DETAILS

FEB 19 2009

RPB NO: EN - PR0701
Sheet Reference Number
A-R3.1
Sheet 4 of 4

STRUCTURAL NOTES

CONCRETE:

1. ALL CONCRETE WORK IS DESIGNED ON THE BASIS OF "STRENGTH DESIGN" IN ACCORD WITH ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". ALL CONCRETE WORK SHALL BE CONSTRUCTED IN STRICT ACCORD WITH ACI 318.
2. CONCRETE WORK SHALL BE PROPORTIONED IN ACCORD WITH ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI 211.11, "RECOMMENDED PRACTICE FOR SELECTING PROPORTIONS FOR NORMAL WEIGHT CONCRETE" TO PRODUCE THE FOLLOWING:

LOCATION	STRENGTH (PSI)	TEST AGE (DAYS)	MAX AGGR. SIZE	MAX W/C RATIO	MINIMUM CEMENT
ELEVATED BEAMS	5000	28	3/4"	0.6	500 LBS
SLABS	3000	28	3/4"	0.6	475 LBS
FOUNDATIONS	3000	28	3/4"	0.6	475 LBS
FILLED CELLS COURSE GROUT	3000	28	3/8"	0.6	560 LBS.

- THE USE OF A SUPERPLASTICIZER IS ALLOWED BUT NOT REQUIRED. SHRINKAGE FOR THIS MIX SHALL BE LIMITED TO 0.035% AT 28 DAYS AS TESTED BY ASTM C157. (REFER TO NOTE 5 OF CONCRETE SLAB ON FILL)

CONFLICTS. DESIGN MIXES SHALL MEET OR EXCEED EACH REQUIREMENT SPECIFIED. WHERE BOTH STRENGTH AND MAXIMUM WATER-CEMENT RATIO ARE SPECIFIED, THE MOST STRINGENT SHALL APPLY. FOR EXAMPLE, MAXIMUM WATER-CEMENT RATIO MIGHT RESULT IN A STRENGTH GREATER THAN THE MINIMUM SPECIFIED: LIKEWISE, A LOWER WATER-CEMENT RATIO THAN SPECIFIED MAY BE REQUIRED IN ORDER TO ACHIEVE THE REQUIRED STRENGTH.

WATER/CEMENT RATIO. W/C RATIO SHALL BE BASED ON TOTAL CEMENTITIOUS MATERIAL. IF NOT SHOWN ABOVE, W/C RATIO SHALL BE DETERMINED BY SUPPLIER BASED ON STRENGTH REQUIREMENTS.

AIR CONTENT. ENTRAINED AIR IS NOT REQUIRED UNLESS SHOWN ABOVE. WHERE AIR CONTENT IS SPECIFIED AND CONCRETE IS BEING PUMPED, TESTING SHALL BE PERFORMED AT THE DISCHARGE END OF THE PUMP OR HOSE. TOLERANCE FOR AIR CONTENT SHALL BE + OR - 1 1/2%.

3. CONCRETE SLUMP LIMITATIONS:
   4" MINIMUM
   6" MAXIMUM
   GROUT: 8" MIN. AND 11" MAX.
4. NO WATER SHALL BE ADDED TO THE CONCRETE MIX AT THE JOB SITE WITHOUT APPROVAL OF THE ENGINEER.
5. MAXIMUM AGGREGATE SIZE SHALL ¾ INCH. ALL AGGREGATES SHALL CONFORM TO ASTM C-33.
6. ADMIXTURES MAY BE USED ONLY AFTER APPROVAL BY THE ENGINEER.
7. ALL CONCRETE TO BE PUMPED SHALL BE DESIGNED ACCORDINGLY AND SHALL COMPLY WITH SLUMP LIMITATIONS STATED HEREIN ABOVE AND WITH ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI 304, "PLACING CONCRETE BY PUMPING METHODS COMMITTEE REPORT".
8. A MINIMUM OF A 3 INCH INSIDE DIAMETER PUMP AND PIPE SHALL BE USED TO TRANSPORT CONCRETE.
9. ALL CONCRETE SHALL BE CONSOLIDATED THROUGH USE OF MECHANICAL VIBRATORS.
10. CONCRETE COVER FOR REINFORCING STEEL SHALL BE IN ACCORD WITH ACI 318, AND SHALL BE A MINIMUM AS FOLLOWS, U.N.O.:
    SLABS = ¾"
    BEAMS = 1 ½"
    FORMED CONCRETE BELOW GRADE = 2"
    UNFORMED CONCRETE BELOW GRADE = 3"
11. TIE BEAM SIZES SHALL BE INCREASED AS REQUIRED FOR ARCHITECTURAL DETAILS OR TO FIT BLOCK COURSING (28" MAXIMUM) AND ADD 2#5 IF DROP EXCEEDS 8".
12. ADEQUATE VERTICAL AND HORIZONTAL SHORING SHALL BE PROVIDED TO SAFELY SUPPORT ALL CONSTRUCTION LOADS SUBMIT DESIGNED SHOP SAFELY DRAWINGS FOR REVIEW.
13. ALL STRUCTURAL CONCRETE IS TO BE CURED. COMPOUND SHALL BE APPLIED THE SAME DAY AS THE POUR AND IMMEDIATELY UPON HARDENING WHEN WIND /HUMIDITY DICTATE. SPRAY COMPOUND WITH MINIMUM TWO PASSES AT PERPENDICULAR PLACEMENT.

SHOP DRAWING SUBMITTALS

1. REVIEW OF SUBMITTALS BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AS PRESENTED BY THE CONTRACT DOCUMENTS. NO DETAILED CHECK OF QUANTITIES OR DIMENSIONS WILL BE MADE. ONLY THOSE SHOP DRAWINGS REQUIRED BY THE CONTRACT DOCUMENTS TO BE SUBMITTED WILL BE REVIEWED. ALL OTHERS WILL BE RETURNED WITHOUT COMMENT.
2. REVIEW OF SHOP DRAWINGS IS TO BE LIMITED TO TWO (2) REVIEWS PER SUBMITTAL WITHIN THE SCOPE OF BASIC SERVICES (I.E., INITIAL SUBMITTAL REVIEW AND ONE RESUBMITTAL, IF NECESSARY). REVIEW OF ADDITIONAL RESUBMITTALS WILL BE CONSIDERED ADDITIONAL SERVICES, FOR WHICH THE GENERAL CONTRACTOR MAY BE HELD RESPONSIBLE. ADDITIONAL SERVICES COMPENSATION TO THE ENGINEER WILL BE IN ACCORDANCE WITH THE TERMS OF THE ARCHITECT-ENGINEER AGREEMENT FOR THIS PROJECT.
3. ALL SHOP DRAWINGS MUST BEAR EVIDENCE OF THE CONTRACTOR'S APPROVAL PRIOR TO SUBMITTING TO THE A/E.
4. SUBMIT THREE COPIES TO THE ARCHITECT/ENGINEER FOR REVIEW. THE ARCHITECT/ENGINEER WILL RETURN TWO (2) AND RETAIN ONE (1) AFTER REVIEW.
5. ALL CHANGES AND ADDITIONS MADE ON RESUBMITTALS MUST BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF THE RESUBMITTALS MUST BE CLEARLY NOTED ON THE LETTER OF TRANSMITTAL ARCHITECT/ENGINEER REVIEW WILL BE LIMITED TO THOSE ITEMS CAUSING THE RESUBMITTAL.
6. SHOP DRAWINGS NOT MEETING THE ABOVE CRITERIA OR SUBMITTED AFTER FABRICATION WILL NOT BE REVIEWED.

LINTELS:

1. UNLESS OTHERWISE NOTED USE 8"x8" PRECAST CONCRETE LINTELS WITH MIN. 6" BRG. CAPACITIES CLEARLY PRINTED WITHIN VIEW AS FOLLOWS:

CLEAR SPAN		MINIMUM CAPACITY
FROM	TO	
4'-0"	6'-0"	150 PLF
6'-0"	8'-0"	200 PLF
6'-0"	8'-0"	250 PLF

WHEN OPENING IS ADJACENT TO A CONCRETE COLUMN USE 8"x8" POURED IN PLACE LINTEL WITH 2#4 MIDBEAM (6'-0" MAX CLEAR SPAN.)

REINFORCED MASONRY:

1. HOLLOW MASONRY UNITS SHALL CONFORM TO ASTM C-90, TYPE 1, GRADE N, WITH A MINIMUM AVERAGE CONCRETE STRENGTH ON GROSS AREA OF 1000 P.S.I. (COMP STRENGTH ON NET AREA = Fc' = 1900 PSI). EXCEPTION MASONRY FOR FIRE RATINGS OF 2 HOURS OR MORE
2. MORTAR SHALL CONFORM TO ASTM C-476, TYPE "M" WITH A 28-DAY STRENGTH OF 2,500 PSI. GROUT SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 PSI AND CONFORM TO ASTM C-476.
3. LAY ALL MASONRY WITH FULL FACE HEAD JOINTS AND WITH FACE SHELL MORTAR BEDDING.
4. MASONRY ANCHORAGE TO SUPERSTRUCTURE SHALL BE PROVIDED IN ACCORDANCE WITH STRUCTURAL DRAWINGS AND DETAILS.
5. THE USE OF ADMIXTURES SHALL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
6. VERTICAL REINFORCING:
   (A) ASTM A 615-60 PER REINFORCING SECTION.
   (B) WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL CORE IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN SIX VERTICAL FOR ALIGNMENT, EVEN THOUGH IT IS AN ADJACENT CELL TO THE VERTICAL WALL REINFORCING.
   (C) VERTICAL REINFORCING STEEL SHALL HAVE A MINIMUM CLEARANCE OF ONE-QUARTER INCH FROM THE MASONRY.
   (D) ADDITIONAL VERTICAL REINFORCEMENT IS REQUIRED AT EACH SIDE OF OPENINGS IN WALL, AT WALL INTERSECTIONS, CORNERS AND ENDS. THIS REINFORCING SHALL BE THE SAME SIZE AS THE SCHEDULED WALL REINFORCING FOR THE PARTICULAR WALL BUT NEVER LESS THAN 1 #5 - UNLESS NOTED OTHERWISE. SPECIAL CARE SHALL BE TAKEN TO INSURE THAT CELLS TO BE GROUTED LINE UP PROPERLY.
7. PROVIDE 16 GAUGE GALVANIZED MASONRY DOVE-TAIL ANCHORS AT 16" O.C. VERTICAL FOR ALL MASONRY PLACED ADJACENT TO COLUMNS.
8. TERMINATE ALL VERTICAL REINFORCING INTO HIGHEST CONCRETE OR MASONRY BEAM ABOVE AND PROVIDE HOOK BARS ENDS.
9. PROVIDE CORNER BARS AT ALL MASONRY BEAM INTERSECTIONS. BARS SHALL BE SAME SIZE AND QUANTITY AS BEAM REINFORCING, EXCEEDING 18" IN BOTH DIRECTIONS.
10. PROVIDE 1/8"ø WIRE REINFORCING - LADDER TYPE IN ALL WALLS, 16" O.C. VERTICAL IN 8" BLOCK.
11. WALL DESIGN IS BASED UPON ACI 530-02 / ASCE 5-02 AND SPECIFICALLY THE ELASTIC ANALYSIS SECTIONS.
12. MASONRY SHALL BE CHECKED FOR COMPRESSIVE STRENGTH BASED ON THE PRISM TEST METHOD AS MODIFIED IN CONFORMANCE WITH ACI 530.1-88 ART. 1.6.3.2. PROVIDE A SINGLE TEST SET OF THREE (3) PRISMS FOR EACH 5000 SQUARE FEET OF MASONRY. ONE TEST SHALL BE PERFORMED PRIOR TO CONSTRUCTION.
13. MASONRY SHALL BE FILLED WITH FINE GROUT TYPE AND TESTED WITH 2" CUBES AT 7 AND 28 DAYS. A MINIMUM OF 4 CUBES IS REQUIRED FOR EACH TEST.
14. REFERENCE STANDARDS. FBC, CHAPTER 35. ACI 530.1-02 "SPECIFICATIONS FOR CONCRETE MASONRY CONSTRUCTION.

    ENGINEERD UNIT MASONRY IS TO BE DESIGNED PER "FBC 4407.5" AND THE PROVISIONS OF ACI-530/ASCE 5-95, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, AND THE COMMENTARY ON BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.
15. ANCHOR ALL MASONRY CONCRETE TO POURED CONCRETE COLUMNS WITH DOVE TAIL ANCHORS OR SERRATED BLOCK TIES FASTENED WITH POWDER ACTUATED FASTENERS AT VERTICAL SPACING TO MATCH THE JOINT RIENFORCING.

FOUNDATION AND CONCRETE SLAB ON FILL:

1. ALL SLABS ON FILL SHALL BE PLACED ON CLEAN, NON-ORGANIC FILL.
2. FILL SHALL BE THOROUGHLY MOISTENED IMMEDIATELY BEFORE CONCRETE IS PLACED AS DESCRIBED BELOW.
3. COLUMNS, WALLS OR ANY OTHER STRUCTURAL MEMBER PENETRATING SLABS ON FILL SHALL BE ISOLATED BY PREMOLDED JOINT FILLER, TYPE 1.
4. SLABS SHALL BE SAWCUT, DAY OF POUR, IN A "CHECKERBOARD PATTERN", EACH SEGMENT OF WHICH SHALL BE LOCATED AS SHOWN ON PLAN.
5. ALL SLABS ON GRADE SHALL BE REINFORCED WITH FIBRILLATED POLYPROPYLENE FIBERS IN THE CONCRETE MIX AT A PROPORTION OF 1½ POUNDS PER CUBIC YARD. ALTERNITIVELY, REINFORCE WITH WELDED WIRE FABRIC 6x6-W1.4x1.4
6. CENTER ALL FOOTINGS ON WALLS, PIER, OR COLUMN ABOVE, UNLESS OTHERWISE INDICATED.
7. ALL PLATES, ANGLES AND MISCELLANEOUS METAL ITEMS TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY AND ACCURATELY FASTENED TO THE CONCRETE FORM WORK BY A MINIMUM OF TWO (2) FASTENERS PRIOR TO CONCRETE PLACEMENT.
8. THE FOUNDATION SHALL BE PREPARED TO PERFORM WITH A SAFE SOIL BEARING CAPACITY OF 2500 PSF. THE PREPARATION MUST COMPLY WITH THE GEOTECHNICAL INVESTIGATION REPORT SUBMITTED BY :

   VERIFY THAT PREPARATION IS SATISFACTORY TO OBTAIN THE REQUIRED BEARING VALUE WITH MINIMAL DIFFERENTIAL SETTLEMENT. CERTIFICATION SHALL BE PREPARED BY A REGISTERED PROFESSIONAL ENGINEER & SHALL BE PROVIDED TO CONSULTANT PRIOR TO BEGINNING FOUNDATION WORK.
9. SLAB SHALL BE CAST ON 6 MIL VISQUEEN.
10. FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 12" AND COMPACTED TO 98% MODIFIED PROCTOR (ASTM D 1557, LATEST EDITION) AT OPTIMUM MOISTURE CONTENT WITHIN A DISTANCE OF 5'-0" BEYOND ALL FOOTING EDGES. AT LEAST ONE FIELD DENSITY TEST SHALL BE PERFORMED FOR EACH 2500 SQUARE FEET OF AREA. DENSITY TESTS ARE TO BE MADE 12" BELOW THE COMPACTED SURFACE. RESULTS OF PROCTOR TEST(S) SHALL BE FURNISHED TO THIS ENGINEER.
11. ALL EXTERIOR CONCRETE SURFACES SHALL HAVE A LIGHT BROOM FINISH AND ALL INTERIOR SURFACES SHALL HAVE A SMOOTH TROWEL FINISH. REFER TO ARCHITECTURAL DRAWINGS FOR SUPPLEMENTAL CONCRETE FINISHES FOR HARD FLOORING COMPATIBILITY.
12. SOIL WITHIN BUILDING EXTENTS SHALL BE TREATED FOR TERMITES. CERTIFICATE OF PROTECTIVE TREATMENT SHALL BE POSTED ON SITE IN ACCORDANCE WITH FBC 104.2.6.

CONCRETE CYLINDER AND SLUMP TEST:

1. AT LEAST ONE SET OF CYLINDERS SHALL BE PROVIDED FOR STRENGTH AND ONE SLUMP TEST PER POUR, OR MAXIMUM 50 CUBIC YARDS OF CONCRETE WHICHEVER IS LESS.
2. PROVIDE THE FOLLOWING TESTS FOR EACH POUR TO THIS ENGINEER:
   (A) ONE (1) SET OF FIVE (5) CYLINDERS.
      (A) ONE (1) FOR 3 DAY TEST.
      (B) ONE (1) FOR 7 DAY TEST.
      (C) TWO (2) FOR 28 DAY TEST.
      (D) ONE (1) SPARE.
   (B) ONE SLUMP TEST.
3. AT LEAST TWO SETS OF TESTS ARE RECOMMENDED FOR COLUMN POURS.

REINFORCING STEEL:

1. ALL REINFORCING STEEL SHALL COMPLY WITH ASTM A-615, A-616, AND/OR, A-617.
2. ALL REINFORCING STEEL SHALL BE GRADE 60,(60.0 K.S.I. YEILD STRENGTH).
3. ALL REINFORCEMENT SPLICES SHALL BE IN ACCORD WITH ACI 318-99 FOR "STRENGTH DESIGN".
4. PLACEMENT DRAWINGS AND BAR LISTS SHALL CONFORM WITH ACI 318-99 AND "MANUAL FOR STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES". ALL SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW. (ONE PAPER SEPIA AND ONE PRINT OF EACH DRAWING.)
5. DETAILS FOR CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCEMENT STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE", UNLESS OTHERWISE INDICATED.
6. ALL WELDING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE AWS D12.1.
7. ALL REINFORCEMENT STEEL SHALL BE ACCURATELY PLACED, RIGID-Y SUPPORTED, AND FIRMLY TIED IN PLACE WITH BAR SUPPORTS AND SPACERS, IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 301 AND ACI 318-99.
8. ALL REINFORCING STEEL SHALL BE ASSEMBLED AS CAGES OR MATS, WITH BARS EQUALLY SPACED AND TIED TOGETHER AT EACH INTERSECTION BEFORE CONCRETE IS PLACED.
9. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185-68, AND BE LOCATED IN THE CENTER OF DEPTH.
10. ALL ACCESSORIES SHALL HAVE UPTURNED LEGS AND BE PLASTIC DIPPED AFTER FABRICATION.
11. SUPPORT BARS SHALL NOT BE SPACED MORE THAN 4'-0" C/C. SUPPORT BARS AND ENDS OF MAIN REINFORCING SHALL NOT EXTEND MORE THAN 1'-6" PAST OUTERMOST CHAIR OR SUPPORT BAR.
12. A MINIMUM OF 3 INDIVIDUAL HIGH CHAIRS FOR EACH SUPPORT BAR SHALL BE PROVIDED FOR TOP REINFORCING.
13. SPACER TIES SHALL BE PROVIDED FOR VERTICAL COLUMN REINFORCING STEEL SUCH THAT 2" MINIMUM CLEARANCE IS MAINTAINED UNLESS OTHERWISE NOTED ON PLANS.
14. HOOK ALL COLUMN VERTICAL REINFORCING INTO SLAB/BEAM ABOVE WHERE COLUMN TERMINATES.
15. PROVIDE CORNER BARS AT ALL CONCRETE TIE BEAM INTERSECTIONS. BARS SHALL BE SAME SIZE AND QUANTITY AS BEAM REINFORCING, EXTENDING 18" IN BOTH DIRECTIONS.

LAP SPLICE SCHEDULE	
BAR SIZE	LAP LENGTH
#4	16"
#5	20"
#6	25"
#7	34"
#8	45"
#9	57"

GENERAL STRUCTURAL NOTES:

1. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS AND OTHER CONTRACT DOCUMENTS.
2. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR EXACT LOCATION OF PITS, DEPRESSIONS, TRENCHES, AND ROOF MOUNTED OR JOISTS SUSPENDED UNITS.
3. ADEQUATE VERTICAL AND HORIZONTAL SHORING SHALL BE PROVIDED TO SAFELY SUPPORT ALL CONSTRUCTION LOADS.
4. A MINIMUM OF ONE FIELD OBSERVATION BY THE ENGINEER OF RECORD IS REQUIRED NEAR THE COMPLETION OF THE BUILDING STRUCTURE AND PRIOR TO OCCUPANCY, FOR DETERMINING GENERAL PERFORMANCE OF THE DESIGN. ADDITIONAL OBSERVATIONS SHALL BE ARRANGED AS DESCRIBED IN NOTE #5 BELOW.
5. NO LATER THAN 24 HOURS IN ADVANCE, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED TO OBSERVE THE WORK AS REQUIRED BY OWNER AND TO BE DETERMINED AT PRE-CONSTRUCTION MEETINGS.
6. GOVERNING CODE: FLORIDA BUILDING CODE (FBC), 2004 EDITION. ANSI / ASCE FOR WIND LOADS, LATEST EDITITION.
7. REFERENCE STANDARDS: REFERENCE TO ASTM AND OTHER STANDARDS SHALL MEAN THE LATEST EDITION IN EFFECT ON THE BID DATE OR DATE OF OWNER-CONTRACTOR AGREEMENT UNLESS NOTED IN THESE DOCUMENTS OR DESIGNATED BY THE GOVERNING CODE.
8. NOTES: NOTES ON THE INDIVIDUAL STRUCTURAL DRAWINGS SHALL TAKE PRIORITY OVER STRUCTURAL NOTES ON THIS SHEET.
9. ARCHITECTURAL: REFER TO THE ARCHITECTURAL ELECTRICAL, MECHANICAL DRAWINGS FOR ELEVATIONS, DOORS, WINDOWS, NON-BEARING WALLS, CURTAIN WALLS, ELEVATORS, STAIRS, SLOPES, CURBS, DRAINS, DEPRESSIONS, RAILINGS, WATERPROOFING, FINISHES OPENINGS ETC.
10. DISCREPANCIES: IN CASE OF DISCREPANCIES BETWEEN THE PLANS, SPECIFICATIONS, REFERENCE STANDARDS AND GOVERNING CODE, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
11. SITE VERIFICATION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK, AND THE ENGINEER / ARCHITECT SHALL BE IMMEDIATELY NOTIFIED, IN WRITING, OF ANY DECREPANCIES. IN NO CASE SHALL DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THE STRUCTURAL DRAWINGS.
12. OMISSIONS/CONFLICTS. IN CASE OF OMISSIONS AND CONFLICTS BETWEEN THE PLANS, SPECIFIGATIONS, AND SITE CONDITIONS THE ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH THE WORK.
13. CONTRACTOR RESPONSIBILITIES. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFETY AT THE SITE AND FOR THE STRENGTH AND STABILITY OF ALL PARTLY COMPLETED STRUCTURE.
14. SHOP DRAWINGS. SUBMIT SHOP DRAWINGS FOR REINFORCING STEEL AND FORMWORK TO THE STRUCTURAL ENGINEER FOR REVIEW BEFORE FABRICATION.

STRUCTURAL STEEL

1. STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM WITH THE REQUIREMENTS OF THE "AISC'S SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", LATEST EDITION.
2. STRUCTURAL STEEL PLACEMENT DRAWINGS AND MATERIAL LISTS SHALL CONFORM TO AISC'S "STRUCTURAL STEEL DETAILING", LATEST EDITION. SHOP DRAWINGS SHALL BE PREPARED UNDER THE SUPERVISION OF A REGISTERED ENGINEER AND SUBMITTED FOR REVIEW PRIOR TO FABRICATION. (ONE PAPER SEPIA AND ONE PRINT OF EACH DRAWING).
3. ALL STRUCTURAL STEEL MEMBERS AND MISC. METALS SHALL CONFORM WITH THE FOLLOWING UNLESS OTHERWISE NOTED:

STRUCTURAL SHAPE	ASTM SPECIFICATIONS	MIN FY (KSI)
W-SHAPE	A572	50
CHANNEL	A36	36
ANGLES	A36	36
SQUARE AND RECTANGULAR H.S.S.	A500, GRADE B	46
ROUND H.S.S.	A500, GRADE B	42
PLATE AND BARS	A36	36
ANCHOR BOLTS	F 1554 WITH WELDABILITY SUPPLEMENT S1	55

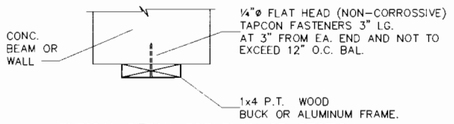
4. ALL SHOP AND FIELD WELDING SHALL CONFORM TO THE LATEST EDITION OF THE STRUCTURAL WELDING CODE AWS D1.1, PUBLISHED BY THE AMERICAN WELDING SOCIETY (AWS). USE ELECTRODES CONFORMING TO AWS D1.1, E70 SERIES, U.O.N. SHOW ALL SHOP WELDS ON THE FABRICATION DRAWINGS AND ALL FIELD WELDS ON THE ERECTION DRAWINGS.
5. ALL SHOP AND FIELD WELDERS, WELDING OPERATORS, AND TACKERS SHALL BE CERTIFIED ACCORDING TO AWS PROCEDURES FOR THE WELDING PROCESS AND WELDING POSITION USED.
6. ALL JOINT WELDING PROCEDURES TO BE USED SHALL BE PREPARED BY THE FABRICATOR OR CONTRACTOR AS WRITTEN PROCEDURE SPECIFICATIONS. ALL JOINT WELDING PROCEDURES SHALL BE QUALIFIED PRIOR TO USE ACCORDING TO AWS PROCEDURES. PROPERLY DOCUMENTED EVIDENCE OF QUALIFICATION TESTS SHALL BE MAINTAINED BY THE CONTRACTOR.
7. BOLTED CONNECTIONS SHALL BE MADE WITH ¾" DIAMETER A-325 BOLTS AS INDICATED, UNLESS OTHERWISE NOTED.

   A.) A-325 BOLTS SHALL CONFORM TO ASTM A-325 TYPE 1, HIGH STRENGTH BOLTS FOR STRUCTURAL STEEL JOINTS. NUTS SHALL CONFORM TO ASTM A-563.

   B.) USE HARDENED STEEL WASHERS CONFORMING TO ASTM F436 IN ALL CONNECTIONS REQUIRING A325 BOLTS. PLACE HARDENED STEEL WASHERS UNDER THE PART BEING TURNED AND UNDER BOLTS, NUTS AND/OR DIRECT TENSION INDICATORS BEARING ON OUTER PLIES OF STEEL HAVING OVERSIZE OR SHORT SLOTTED HOLES.

   C.) ALL BOLTS SHALL BE NEW. DO NOT REUSE BOLTS. USE ONLY NON-GALVANIZED NUTS AND BOLTS THAT ARE CLEAN, RUST-FREE AND WELL LUBRICATED.

   D.) BEARING TYPE BOLTS (A-325 N OR X) SHALL BE TIGHTENED BY THE TURN-OF-THE-NUT METHOD.
8. CUT, DRILL OR PUNCH HOLES PERPENDICULAR TO METAL SURFACES. DO NOT FLAME CUT HOLES OR ENLARGE HOLES BY BURNING.
9. SPLICING OF STRUCTURAL STEEL MEMBERS IN THE FIELD OR IN THE SHOP IS PROHIBITED EXCEPT WHERE INDICATED ON THE DRAWINGS.
10. FABRICATE AND ASSEMBLE STRUCTURAL COMPONENTS IN SHOP TO THE GREATEST EXTENT POSSIBLE. FABRICATE ITEMS OF STRUCTURAL STEEL IN ACCORDANCE WITH AISC SPECIFICATION AND AS INDICATED ON FINAL SHOP DRAWINGS. FABRICATOR SHALL COORDINATE JOINT FIT-UP PROCEDURES WITH ERECTOR. CONTRACTOR IS TO COORDINATE PROVISION OF ALL ERECTION BOLTS, LIFTING LUGS OR OTHER DEVICES REQUIRED FOR ERECTION WITH THE FABRICATOR AND THE ERECTOR.
11. PROPERLY MARK AND MATCH-MARK MATERIALS FOR FIELD ASSEMBLY. FABRICATE FOR DELIVERY SEQUENCE, WHICH WILL EXPEDITE ERECTION AND MINIMIZE FIELD HANDLING OF MATERIALS.
12. HOT DIP GALVANIZE, AFTER FABRICATION, ALL STRUCTURAL STEEL EXPOSED TO THE WEATHER.



TYPICAL DETAIL FOR PLAN OR SECTION AT ROUGH WINDOW OR DOOR OPENING

TYPICAL BUCK DETAIL (A / S-0.1)
SCALE: ½" = 1'-0"

DESIGN LOADS FOR THE PROJECT AS FOLLOWS:

MAIN FRAME SYSTEM WIND LOADS:
STRUCTURE IS DESIGNED ACCORDING TO ANSI/ASCE 7-02
BASIC WIND SPEED = 140 MPH.
STRUCTURE WIND IMPORTANCE FACTOR = 1.0
SITE WIND EXPOSURE = C
WIND DESIGN PRESSURE qh AT ROOF LEVEL = 42.6 PSF (h=14.00') @ BUILDING
CRITICAL COMPONENT FRAMING WIND LOADS: (a = 3')
INTERNAL PRESSURE COEFFECIENT GCpi = + 0.18
WIND DIRECTIONALITY FACTOR kd = 1.0

LAWRENCE DeROSE, P.E.
LICENSED ENGINEER NO. 20169
STATE OF FLORIDA
CERTIFICATE OF AUTHORIZATION # 4066
MAY 19 2003
DATE:
PROJ # 07047

The Village of ROYAL PALM BEACH FLORIDA Incorporated 1959

	By:
Designed:	
Drawn:	
Checked:	

No.	Revisions	Date	By
	PRICING SET	05/29/07	
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CERTIFICATE OF AUTHORIZATION # 4066

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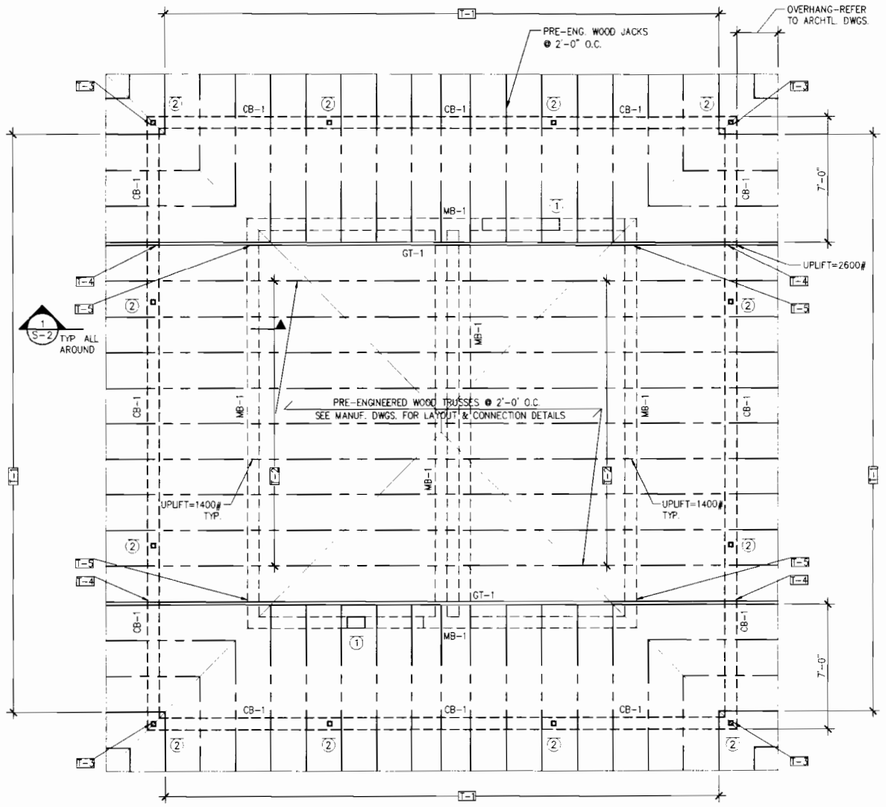
S-R0.1
Sheet 1 of 3



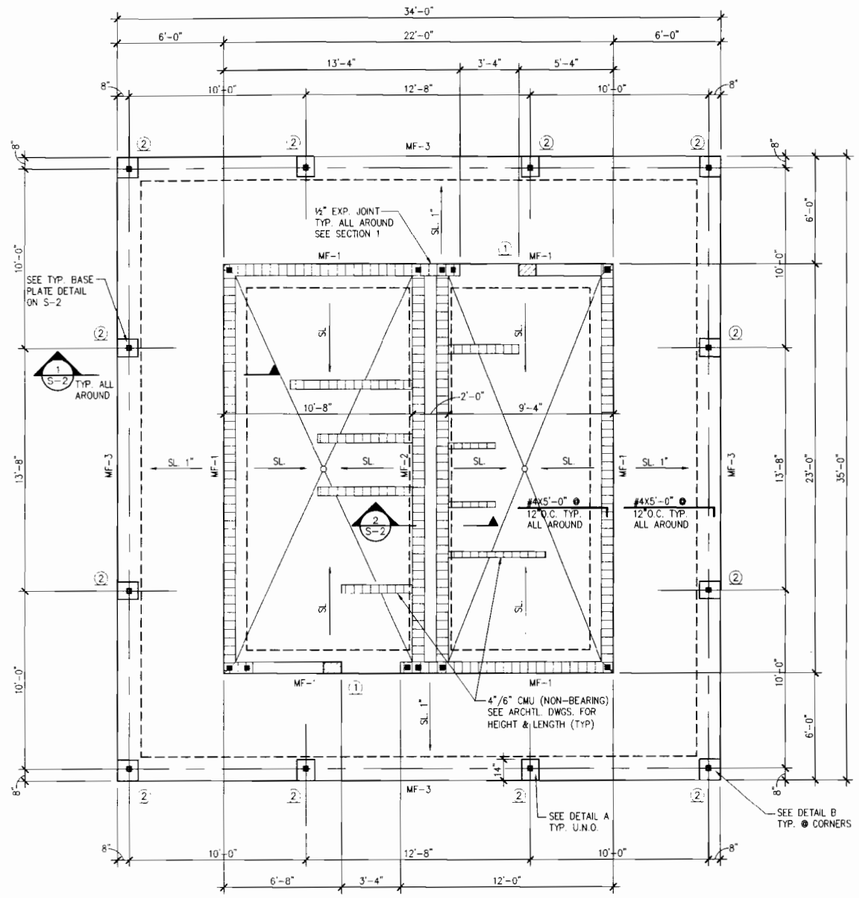
ROOF FRAMING PLAN

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

SEE WOOD NOTES ON DWG. S-2

SEE DWG. S-2 FOR ROOF UPLIFT PRESSURE DIAGRAM

DEAD LOAD= 20 PSF
LIVE LOAD= 20 PSF
TOTAL 40 PSF

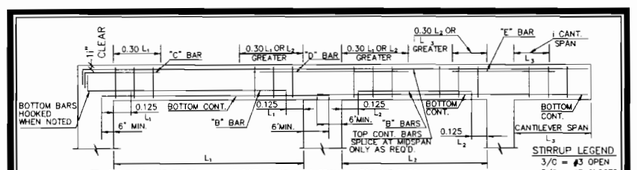


FOUNDATION PLAN

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

FOUNDATION PLAN NOTES:

1. REFER TO FOUNDATION AND CONC. SLAB ON FILL NOTES ON S-01.
2. FLOOR SHALL BE A 4" CONCRETE SLAB W/ 6X6-W1.4XW1.4 W.W.F. ON A 6 MIL VAPOR BARRIER ON WELL COMPACTED TERMITE TREATED SOIL.
3. ▭ INDICATES RUNNING BOND – COMMON BLOCK.
4. FOOTINGS ARE PROPORTIONED FOR AN ALLOWABLE BEARING CAPACITY OF 2500 PSF.
5. REFER TO ARCH. DRAWINGS FOR WINDOW & DOOR OPENING DIMENSIONS & LOCATIONS.
6. PROVIDE VERT. #5 @ 48" O.C. IN CONC. FILLED CELLS (U.N.O.)
7. ■ INDICATES ADDITIONAL #5 IN FIELLED CELLS AT CORNERS AND EACH SIDE OF OPENINGS. U.N.O.



BEAM SCHEDULE

MARK	SIZE (WxD)	ELEV.	REINFORCING STEEL						STIRRUPS FROM EACH COLUMN FACE			REMARKS
			TOP CONT.	"B"	BOTTOM CONT.	"C"	"D"	"E"	SIZE/TYPE	NUMBER & SPACING	BALANCE	
CB-1	8"x12"	+10'-6"	2-#5		2-#5				4C	@ 12" O.C.		
										1@3" BAL@ 5"OC		
MB-1	8"x16"	+10'-6"	1-#7		1-#7							
MB-1	8"x8"	+10'-6"	1-#5									

TRUSS CONNECTION SCHEDULE

MARK	SIMPSON MODEL BRACKET OR STRAP	NET UPLIFT LOAD	FASTENERS TO TRUSS	FASTENERS TO MASONRY	REMARKS
T-1	HETA 12	1000#	(7) 10d x 1 ½"	EMBED	
T-2	HETA 16	1400#	(10) 10d x 1 ½"	EMBED	
T-3	HETA 16	1400#	(10) 10d x 1 ½"	EMBED	
T-4	MGT	2000#	(22) 10d	(2)⅜ HD GALV.	KWK BOLT 3 5" EMBEDMENT, HILTI
T-5	HGT-2	4000#	(16) 10d	(2)¾ HD GALV.	KWK BOLT 3 5" EMBEDMENT, HILTI

NOTES:

1. "SIMPSON" PRODUCTS OR EQUAL ARE REQUIRED..
2. BRACKET OR STRAP WITHOUT SEAT REQUIRES VAPOR BARRIER BETWEEN WOOD AND MASONRY.

FOOTING SCHEDULE

MARK	SIZE (W X D)	REINFORCING	REMARKS
MF-1	16" X 12"	2-#5 CONT. BOTTOM	POUR MONOLITHIC W/ SLAB
MF-2	24" X 12"	3-#5 CONT. BOTTOM #4 @ 48" O.C. TRANSV.	POUR MONOLITHIC W/ SLAB
MF-3	16" X 16"	2-#5 CONT. BOTTOM	POUR MONOLITHIC W/ SLAB

COLUMN SCHEDULE

COL.	SIZE	VERTICAL REINF'G OR CAP PL & BOLTS	COLUMN TIES OR BASE PL & A. BOLTS	REMARKS
1	8" X 12"	(4) # 5 VERT.	#3 TIES @ 8" O.C.	
2	HSS 3"X3"X⅜"	¼" X 8" X 8" W/ (2) ⅝"ø X 6" LG. HEADED STUDS WELDED TO PL.	¼" X 9" X 9" W/ (4) ⅝"ø X 8" LG. HEADED STUDS WELDED TO PL.	

COLUMN MARK LEGEND

◯ +10'-0" = COLUMN BELOW WITH ELEVATION
◯ = COLUMN BELOW
◯ = COLUMN THROUGH
◯ = COLUMN ABOVE
◯ +10'-0" = COLUMN ABOVE WITH ELEVATION

LAWRENCE DeROSE, P.E.
LICENSED ENGINEER NO. 20169
STATE OF FLORIDA
CERTIFICATE OF AUTHORIZATION # 4066
DATE: MAY 19 2008
PROJ # 07047

The Village of ROYAL PALM BEACH FLORIDA Incorporated 1959

	By:
Designed:	
Drawn:	
Checked:	

No.	Revisions	Date	By
	PERMIT SET	05/25/07	
	PER COMMENTS	10/16/07	
	PERMIT REVIEW	11/30/07	
	BID SET	12/01/08	

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ROYAL PALM BEACH COMMONS
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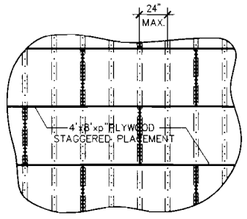
RPB NO: EN-PR0701
Sheet Reference Number
S-R1.1
Sheet 2 of 3



C / S-2 **DECK ATTACHMENT DET.** N.T.S.

WOOD NOTES

1. PLYWOOD PANELS:
   - A. FACTORY-MARK EACH CONSTRUCTION PANEL WITH APA TRADEMARK EVIDENCING COMPLIANCE WITH GRADE REQUIREMENTS.
   - B. INSTALL PANELS WITH FACE GRAIN PERPENDICULAR TO THE SUPPORTING MEMBERS.
2. ROOF TRUSSES:
   - A. SUBMIT CALCULATIONS AND SHOP DRAWINGS FOR WOOD TRUSSES AND THEIR CONNECTIONS SEALED BY AN ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. REVIEW OF CALCULATIONS AND SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS WITH REGARDS TO TRUSS CONFIGURATION, SUPPLIERS BASIC APPLICATION OF DESIGN LOADS AND DETAILS.
   - B. SHOP DRAWING SUBMISSIONS SHALL INDICATE THE FOLLOWING:
     - THE SPECIES AND GRADE OF WOOD MATERIAL USED.
     - TRUSS CONFIGURATION SHOWING DIMENSIONS AND COORDINATED WITH THE OTHER BUILDING TRADES.
     - ALL LOADINGS, UNIFORM AND CONCENTRATED.
     - LOADS AND STRESSES IN EACH MEMBER AND OVERALL TRUSS LIVE AND TOTAL LOAD DEFLECTIONS.
     - CONNECTION DESIGN REACTIONS.
     - TRUSS REACTIONS TO THE SUPPORT STRUCTURE.
     - ALL REQUIRED ERECTION AND PERMANENT LATERAL BRACING.
   - C. SPACE WOOD ROOF TRUSSESS AS INDICATED ON THE CONTRACT DOCUMENTS, 2'-0" MAX.
   - D. PROPER ERECTION BRACING SHALL BE INSTALLED TO HOLD THE TRUSSES TRUE AND PLUMB AND IN SAFE CONDITION UNTIL PERMANENT TRUSS BRACING AND BRIDGING CAN BE SOLIDLY NAILED IN PLACE TO FORM A STRUCTURALLY SOUND FRAMING SYSTEM. ALL ERECTION AND PERMANENT LATERAL BRACING SHALL BE INSTALLED AND ALL COMPONENTS PERMANENTLY FASTENED BEFORE THE APPLICATION OF ANY LOADS.

• INDICATES 10d NAIL, 6" O.C. AT EDGES, AND 6" O.C. INTERMEDIATE, AT ALL ROOF PERIMETER EDGES NAILING SHALL BE AT 4"O.C.

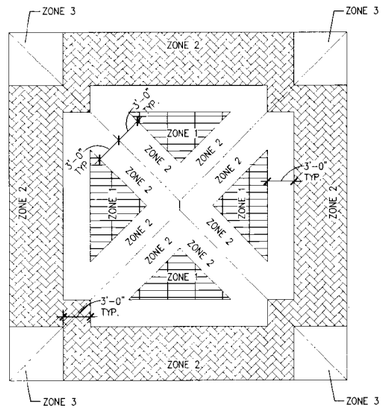
NOTE: ROOF SHEATING SHALL HAVE AN EXPOSURE 1 RATING, MIN. 5/8" INCHES THICK, AND HAVE A 32/16 PANEL I.D. INDEX GRADED C-C OR C-D.

USE 4'-0"x8'-0" SHEETING PANELS AS MUCH AS POSSIBLE

2'-0" x 4'-0" MIN SIZE OF PLYWOOD SHEET.

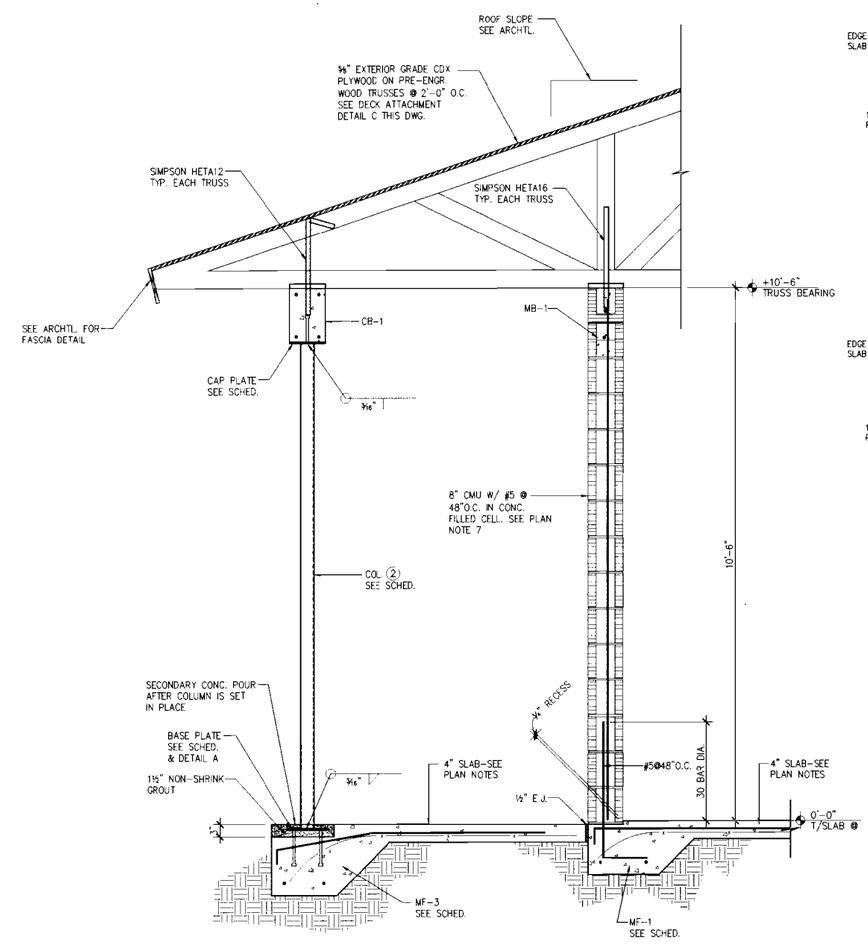
LONG DIM OF PLYWOOD SHALL RUN ACROSS TRUSSES OR RAFTERS.

NAILS SHALL HAVE MIN 3/8" EDGE DISTANCE AND SHALL NOT BE OVER-DRIVEN THRU OUTERPLY.

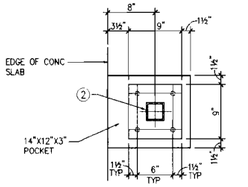


ROOF UPLIFT DIAGRAM

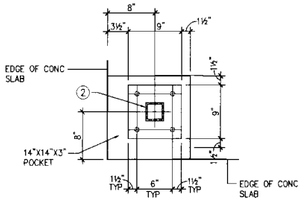
AREA						
ZONE	COMPONENT	10	20	50	100	500
4	WALL FIELD	+50 -54	+48 -52	+45 -49	+43 -47	+37 -42
5	WALL CORNER	+50 -67	+48 -63	+45 -57	+43 -52	+37 -42
1	ROOF FIELD	+29 -46	+26 -45	+23 -43	+20 -42	———
2	ROOF EDGE	+29 -80	+26 -74	+23 -65	+20 -59	———
3	ROOF CORNER	+29 -118	+26 -111	+23 -100	+20 -93	———
2	OVERHANG EDGE	-94	-94	-94	-94	———
3	OVERHANG CORNER	-157	-142	-122	-106	———



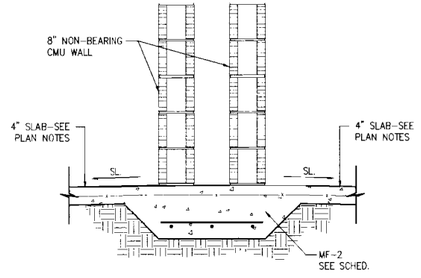
1 / S-2 **SECTION** 3/4"=1'-0"



A / S-2 **DETAIL** 1"=1'-0"



B / S-2 **DETAIL** 1"=1'-0"



2 / S-2 **SECTION** 3/4"=1'-0"

LAWRENCE DeROSE, P.E.
LICENSED ENGINEER NO. 20169
STATE OF FLORIDA
CERTIFICATE OF AUTHORIZATION # 4088
MAY 19 2003
DATE
PROJ # 07047

The Village of ROYAL PALM BEACH FLORIDA INCORPORATED 1959

	By:
Designed:	
Drawn:	
Checked:	

No.	Revisions	Date	By
	PRONG SET	05/23/07	
	75% SUBMITTAL	10/19/07	
	PERMIT REVIEW	11/30/07	
	BID SET	12/20/07	

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RPB NO: EN-PR0701
Sheet Reference Number
S-R2.1
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HVAC DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
	CEILING DIFFUSER, SQUARE /W THROW INDICATION		UNDERCUT DOOR		SPIN-IN TAKE-OFF	24x12	STANDARD DUCT	24x12
	ROUND CEILING DIFFUSER,	DG	DOOR GRILLE			12x8ø	FLAT OVAL OR ROUND DUCT	12x8ø
	CEILING RETURN GRILLE	FM	AIR FLOW MEASURING STATION		TRANSITION, CONCENTRIC	24x12	NEW DUCTWORK, FIRST DIMENSION IS SIDE SHOWN	24x12
	CEILING EXHAUST GRILLE		MANUAL BALANCING DAMPER		TRANSITION, ECCENTRIC	24x12	EXISTING DUCTWORK TO REMAIN	24x12
	SUPPLY REGISTER OR GRILLE (VERTICAL MOUNT, SIDEWALL)		ACCESS DOORS, VERTICAL OR HORIZONTAL	12x8	TRANSITION, SQUARE TO ROUND 8ø	24x12	EXISTING DUCTWORK TO BE REMOVED	24x12
	RETURN/EXHAUST REGISTER OR GRILLE (VERTICAL MOUNT, SIDEWALL)		FLEXIBLE CONNECTION		SQUARE THROAT ELBOW W/TURNING VANES		ACOUSTICAL LINING DUCT DIMENSIONS FOR NET FREE AREA	
T	THERMOSTAT/TEMPERATURE SENSOR	UP DN	SUPPLY RECRANGULAR DUCT SECTION UP/DOWN		SQUARE THROAT TEE /W TURNING VANES		DIRECTION OF FLOW	
H	HUMIDISTAT/HUMIDITY SENSOR	UP DN	RETURN RECTANGULAR DUCT SECTION UP/DOWN				STANDARD BRANCH TAKE-OFF	
	SMOKE DETECTOR	UP DN	EXHAUST RECTANGULAR DUCT SECTION UP/DOWN		INLINE CENTRIFUGAL FAN		SQUARE THROAT ELBOW W/TURNING VANES	
	POINT OF CONNECTION TO NEW OR EXISTING	UP DN	SUPPLY ROUND DUCT SECTION UP/DOWN	UP DN	CHANGE IN ELEVATION			
BDD	BACKDRAFT DAMPER	UP DN	SUPPLY FLAT OVAL DUCT SECTION UP/DOWN		FLEXIBLE DUCT		SPLITTER DAMPER	
TS	TEMPERATURE SENSOR		TRANSFER DUCT	SA	SOUND ATTENUATOR		VOLUME DAMPER (MANUAL OPERATION)	
P	PRESSURE SENSOR		TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME	M	MOTOR OPERATED DAMPER			
U DS	DISCONNECT SWITCH, UNFUSED				CEILING MOUNTED ACCESS DOOR	BDD	BACKDRAFT DAMPER	BDD
DSF	DISCONNECT SWITCH, FUSED		TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME, FAN POWERED		FAN OR PUMP			
PP MC	PP – POWER PANEL MC – MOTOR CONTROL		ELECTRIC DUCT HEATER W/PANEL CLEARANCE	- 0 +	RELATIVE PRESSURE, NEGATIVE/NEUTRAL/POSSITIVE	FSD FD	FLEXIBLE DUCT	FSD FD

HVAC TAGS & SYMBOLS

AS SHOWN ON FLOOR PLAN DWG'S

SECTION NO. (1)
SHEET NO. SECTION IS DRAWN ON

AS SHOWN ON DETAIL DWG'S.

SECTION
SCALE: X/X" = 1'-0"

DETAIL DESIGNATION (A)
SHEET NO. DETAIL IS DRAWN ON

DETAIL
NO SCALE

AIR DISTRIBUTION DEVISE TAG

DEVICE NUMBER:
S – SUPPLY
E – EXHAUST
R – RETURN

AIR VOLUME CFM

SHEET NOTE CALLOUT

EQUIPMENT TAG

EQUIPMENT NUMBER:
AHU – AIR HANDLING UNIT
FCU – FAN COIL UNIT
EF – EXHAUST FAN

AHU-1

AIR TERMINAL UNIT TAG

UNIT NUMBER:
VAV – VARIABLE AIR VOLUME

VAV-1-1

TERMINAL NUMBER
AHU NUMBER

NOTE : THESE ARE THE STANDARD SYMBOLS LISTED ON THIS DRAWING. SOME SYMBOLS SHOWN ON THESE LEGENDS MAY NOT APPEAR ON THE PROJECT DRAWINGS.

VENTILATION RATE PROCEEDURE CALC. & BUILDING AIR BALANCE

AREA SERVED	AREA SQ FT	DESIGN OCCUPANT LOAD PER 1000 SQ FT	DESIGN OCCUPANCY	OCCUPANCY 50% RULE APPLIED	VENTILATION RATE	REQUIRED VENTILATION RATE CFM	PROVIDED VENTILATION RATE CFM	PROVIDED EXHAUST RATE CFM
WOMEN'S ROOM	–	–	3	NO	50 CFM/TOILET	150	350 (3)	350
MEN'S ROOM	–	–	3	NO	50 CFM/TOILET	150	350 (3)	350
					TOTAL		700	700

NOTE:
1. VENTILATION RATES PER ASHRAE STANDARD 62 AND FBC 2004
2. FOR AREAS SERVED WITH PEAK OCCUPANCIES OF LESS THAN THREE (3) HOURS DURATION, 50% RULE HAS BEEN APPLIED PER ASHRAE STANDARD 62, SECTION 6.1.3.4.
3. TRANSFER OF AIR IS PERMITTED
4. RECIRCULATION OF AIR IS PROHIBITED.

EXHAUST FAN SCHEDULE

MARK	AREA SERVED	AIR FLOW CFM	E.S.P. IN. WC	FAN SPEED RPM	MOTOR HP (W)	VOLTAGE V/PH/Hz	LOCATION	MANUFACTURER MODEL NO.	NOTES
EF-1	WOMEN'S RESTROOM	350	0.25	1036	136W	115/1/60	CEILING	GREENHECK SP-A390	1,2
EF-2	MEN'S RESTROOM	350	0.25	1036	136W	115/1/60	CEILING	GREENHECK SP-A390	1,2

NOTES:
1. PROVIDE WITH MOTOR STARTER AND THERMAL OVERLOAD PROTECTION.
2. PROVIDE WITH FACTORY MOUNTED DISCONNECT WIRED TO MOTOR.

HVAC ABBREVIATIONS

AFF – ABOVE FINISH FLOOR	CT – COOLING TOWER	FF – FINAL FILTERS	MOCP – MAX. OVER CURRENT PROTECTION	RS/L – REFRIGERANT SUCTION & LIQUID
AFR – ABOVE FINISH ROOF	DG – DOOR GRILLE	FLA – FULL LOAD AMPS	NC/NO – NORMALLY CLOSE/OPEN	RTU – ROOF TOP UNIT
AHU – AIR HANDLING UNIT	DN – DOWN	FPM – FEET PER MINUTE	NTS – NOT TO SCALE	SA – SUPPLY AIR
AP – ACCESS PANEL	DMP – DAMPER	FSD – FIRE SMOKE DAMPER	OA – OUTSIDE AIR	SP – STATIC PRESSURE
BOP – BOTTOM OF PIPE	DP/DT – CHANGE IN PRESS/TEMP	GPM – GALLONS PER MINUTE	PRV – PRESSURE RELIEF VALVE	TBC/D – TO BE CONFIRMED/DETERMINED
BHP – BRAKE HORSEPOWER	EAT – ENTERING AIR TEMPERATURE	KW – KILOWAT	PSI – POUNDS PER SQUARE INCH	TD – TRANSFER DUCT
CD – CEILING DIFFUSER	ESP – EXTERNAL STATIC PRESSURE	LAT – LEAVING AIR TEMPERATURE	PSIG – PSI GAUGE	TSP – TOTAL STATIC PRESSURE
℄ – CENTER LINE	ETR – EXISTING TO REMAIN	LD – LINEAR DIFFUSER	PVC – POLYVINYL CHLORIDE PIPE	UNO – UNLESS NOTED OTHERWISE
CAV – CONSTANT AIR VOLUME	EWT – ENTERING WATER TEMPERATURE	MBH – THOUSAND BTUs PER HOUR	RA – RETURN AIR	V/PH/Hz – VOLTS/PHASE/FREQUENCY
CFM – CUBIC FEET PER MINUTE	FCU – FAN COIL UNIT	MCA – MINIMUM CIRCUIT AMPACITY	RHC – REHEAT COIL	VAV – VARIABLE AIR VOLUME
CU – CONDENSING UNIT	FD – FIRE DAMPER	MOD – MOTOR OPERATED DAMPER	RPM – REVOLUTIONS PER MINUTE	VFD – VARIABLE FREQUENCY DRIVE

HVAC SPECIFICATIONS

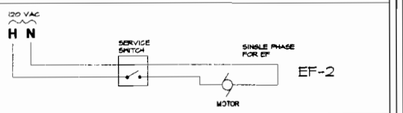
1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON THE FOLLOWING PROPOSED EQUIPMENT WITH THE BID: RTU, SPLIT SYSTEMS, SUPPLY AND EXHAUST FANS, VAV/CONTROL BOXES, GRILLES, DIFFUSERS, REGISTERS, LOUVERS AND CONTROL SYSTEMS.
2. CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.
3. A NEW SET OF ALL FILTERS SHALL BE PROVIDED AND INSTALLED IN ALL UNITS BY THE CONTRACTOR WHEN ALL CONSTRUCTION IS COMPLETED.
4. ALL HVAC CONTROLS AND WIRING, AS SHOWN SHALL BE PROVIDED BY THE CONTRACTOR.
5. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND DUCTWORK ACCESSORIES WITH ACCESS PANELS AS REQUIRED.
6. DUCTWORK DIMENSIONS ARE CLEAR INSIDE DIMENSIONS.
7. ALL EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA "HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE".
8. PROVIDE MANUAL DAMPERS WHERE SHOWN ON THE DRAWINGS. DAMPERS SHALL BE MANUFACTURED ACCORDING TO SMACNA "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE, LATEST EDITION" AND SHALL HAVE LOCKING QUADRANT WITH WING NUT.
9. ALL INTERIOR MILD STEEL (A-36) SUPPORTS SHALL BE PAINTED WITH DIRECT-TO-METAL "DTM" ACRYLIC COATING: CARBOLINE COMPANY, CARBOCRYLIC 3359 DTM OR EQUAL. SURFACE PREPARATION SHALL FOLLOW WRITTEN PAINT MANUFACTURER'S RECOMMENDATIONS.
10. STAINLESS STEEL (304 OR BETTER) AND ALUMINUM (6061T6 OR BETTER) ARE THE PREFERRED MATERIALS OF CONSTRUCTION FOR ALL OUTDOOR SUPPORTS. MILD STEEL (A-36) SUPPORTS CAN BE ACCEPTED IF THEY WERE HOT DIPPED GALVANIZED AS FULLY FABRICATED AND READY FOR ASSEMBLY/CONSTRUCTION ENTITIES I.E. NO FIELD WELDING AND/OR DRILLING, ETC IS PERMITTED.
11. UPON COMPLETION OF THE INSTALLATION, AND BEFORE ISSUE OF FINAL C.O. FOR THE BUILDING, A TEST AND BALANCE "T&B" SHALL BE PERFORMED ON ALL UNITS, AS PER FBCM 13-410.1.ABCD.4, BY AN INDEPENDENT CERTIFIED AABC OR NEBB MEMBER CONTRACTOR.
12. SYSTEM BALANCING SHALL BE ACHIEVED USING THE DUCT BRANCH DAMPERS WITH ALL THE DIFFUSER DAMPERS REMAINING FULLY OPEN. THE REPORT SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE JOB BEING ACCEPTED AS COMPLETE.
13. PRIOR TO DUCTWORK FABRICATION AND INSTALLATION, MECHANICAL CONTRACTOR SHALL COORDINATE WITH T&B CONTRACTOR LOCATIONS OF ALL TEST PORTS AND PITOT TRAVERSE READINGS.

AIR DISTRIBUTION SCHEDULE

MARK	CFM RANGE	NECK SIZE	FACE SIZE	MANUFACTURER & ACCESSORIES
E-1	120-490	12"x6"	12"x6"	EXHAUST GRILLE MODEL: TITUS 50F MATERIAL: STAINLESS STEEL OPP. BLADE DAMPER: NO

NOTE: FINISH TO BE COORDINATED AND APPROVED BY ARCHITECT.

CS-1, CONSTANT VOLUME FANS CONTROL DIAGRAM



GENERAL NOTES

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE INSTALLATION OF A COMPLETE AND OPERABLE MECHANICAL SYSTEMS.
2. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED AND COMPLETED IN A FIRST CLASS WORKMANLIKE MANNER. ANY MATERIALS INSTALLED, WHICH SHALL NOT PRESENT AN ORDERLY AND REASONABLY NEAT OR WORKMANLIKE APPEARANCE, SHALL BE REMOVED AND REPLACED WHEN SO DIRECTED BY OWNER/ENGINEER.
3. ALL EQUIPMENT AND MATERIAL SHALL BE GUARANTEED FOR ONE YEAR AFTER DATE OF ACCEPTANCE BY THE OWNER.
4. THE ENTIRE INSTALLATION SHALL COMPLY WITH FLORIDA BUILDING CODE 2004 AND ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, INCLUDING ALL LOCAL RULES, ORDINANCES AND AMENDMENTS OF SUCH EFFECTIVE 12/1/08.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS, FEES, INSPECTIONS AND TESTS.
6. LOCATIONS AND DIMENSIONS ARE DIAGRAMMATIC IN NATURE. EXACT LOCATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO FABRICATION AND EQUIPMENT PROCUREMENT.
7. SLIGHT VARIATION OF ROUTING AND/OR CONSTRUCTION SHOULD BE ANTICIPATED AND SHALL BE EXPRESSLY INCLUDED AS A PART OF THE WORK WHENEVER REQUIRED. ANY MODIFICATIONS REQUIRED AS A RESULT OF FIELD CONDITIONS ARE TO BE INCLUDED IN BASE CONTRACT.
8. IGNORANCE ON THE PART OF THE CONTRACTOR WILL IN NO WAY EXCUSE HIM FROM THE OBLIGATIONS AND RESPONSIBILITIES OF THIS CONTRACT.
9. ANY CONFLICTS OR DISCREPANCIES ON THESE DRAWINGS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION. CONFLICTS OR DISCREPANCIES PRESENTED AFTER BID SHALL BE RESOLVED AT THE TIME OF DISCOVERY.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH ALL OTHER TRADES FOR CLEARANCES AND USE OF AVAILABLE SPACE.
11. DEBRIS GENERATED BY THE MECHANICAL CONTRACTOR/WORKS SHALL BE PROPERLY DISPOSED OF; ANY APPLICABLE DISPOSAL FEE IS THE RESPONSIBILITY OF THE CONTRACTOR.
12. VALUE ENGINEERING AND ENGINEERING EXPENSES THAT ARE INCURRED BY ENGINEER DUE TO REVISIONS OR SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE THE CONTRACTOR'S RESPONSIBILITY. ADDITIONAL SERVICES COMPENSATION TO THE ENGINEER FOR THE ABOVE EXPENSES MAY BE PAID FOR BY THE CONTRACTOR THRU A DEDUCTIBLE CHANGE ORDER.
13. IN ORDER FOR THE ENGINEER TO CONSIDER A SUBSTITUTE FOR THE SPECIFIED PRODUCT OR EQUIPMENT, THE CONTRACTOR MUST SUBMIT A SUBSTITUTE REQUEST PROVING THE EQUIVALENCE (E.G. MATERIAL, PERFORMANCE AND ETC) AND QUANTIFYING THE COST BENEFITS TO THE OWNER. THE SUBSTITUTE REQUEST MUST BE APPROVED BY THE ENGINEER BEFORE THE CONTRACTOR CAN PROCEED WITH MANUFACTURING AND/OR PROCUREMENT OF THE SUBSTITUTION.
14. THESE DRAWINGS, ALONG WITH ARCHITECTURAL DRAWINGS AND PROJECT SPECIFICATIONS, CONSTITUTE A SINGULAR CONTRACT DOCUMENT AND MUST BE USED TOGETHER IN THEIR ENTIRETY IN THE CONSTRUCTION OF THIS PROJECT.

SHOP DRAWINGS

1. REVIEW OF SUBMITTALS BY THE ENGINEER IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AS PRESENTED BY THE CONTRACT DOCUMENTS. NO DETAILED CHECK OF QUANTITIES OR DIMENSIONS WILL BE MADE. ONLY THOSE SHOP DRAWINGS REQUIRED BY THE CONTRACT DOCUMENTS TO BE SUBMITTED WILL BE REVIEWED. ALL OTHERS WILL BE RETURNED WITHOUT COMMENT.
2. SHOP DRAWINGS FOR EQUIPMENT SHALL INCLUDE FACTORY SUPPLIED PERFORMANCE DATA AT DESIGN CONDITIONS; FANS & PUMPS TO INCLUDE PERFORMANCE CURVES.
3. REVIEW OF SHOP DRAWINGS IS TO BE LIMITED TO TWO (2) REVIEWS PER SUBMITTAL WITHIN THE SCOPE OF BASIC SERVICES (I.E., INITIAL SUBMITTAL REVIEW AND ONE RESUBMITTAL, IF NECESSARY). REVIEW OF ADDITIONAL RESUBMITTALS WILL BE CONSIDERED ADDITIONAL SERVICES, FOR WHICH THE GENERAL CONTRACTOR MAY BE HELD RESPONSIBLE. ADDITIONAL SERVICES COMPENSATION TO THE ENGINEER FOR REVIEWS OVER TWO MAY BE PAID FOR BY CONTRACTOR THRU A DEDUCTIBLE CHANGE ORDER.
4. ALL SHOP DRAWINGS MUST BEAR EVIDENCE OF THE CONTRACTOR'S APPROVAL PRIOR TO SUBMITTING TO THE A/E. IT IS A CONTRACTOR'S RESPONSIBILITY TO DETAIL AND DESCRIBE ALL DISCREPANCIES BETWEEN THE CONTRACT DRAWINGS AND SUBMITTALS.
5. SUBMIT THREE COPIES OF ALL SUBMITTALS TO THE ARCHITECT/ENGINEER FOR REVIEW.
6. ALL CHANGES AND ADDITIONS MADE ON RESUBMITTALS MUST BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF THE RESUBMITTALS MUST BE CLEARLY NOTED ON THE LETTER OF TRANSMITTAL. ARCHITECT/ENGINEER REVIEW WILL BE LIMITED TO THOSE ITEMS CAUSING THE RESUBMITTAL.
7. SHOP DRAWINGS NOT MEETING THE ABOVE CRITERIA OR SUBMITTED AFTER FABRICATION WILL NOT BE REVIEWED.
8. SHOP DRAWINGS REQUIRED FOR THIS SCOPE INCLUDE: EXHAUST FANS.

MECHANICAL DRAWING INDEX

MAREK A. SOLSKI, P.E.
LICENSED ENGINEER NO. 65566
STATE OF FLORIDA
CERTIFICATE OF AUTHORIZATION # 4066
MAY 19 2009
DATE:
PROJ # 07047
ALL RIGHTS RESERVED

The Village of ROYAL PALM BEACH Florida Incorporated 1959

	By:
Designed:	MAS
Drawn:	KLV
Checked:	MAS

No.	Revisions	Date	By
	PERMIT SET	06/25/07	
	75% SUBMITTAL	12/19/07	
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	BID SET	12/01/08	

60059.01

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ROYAL PALM BEACH COMMONS
RESTROOM

DeRose Design Consultants Inc.
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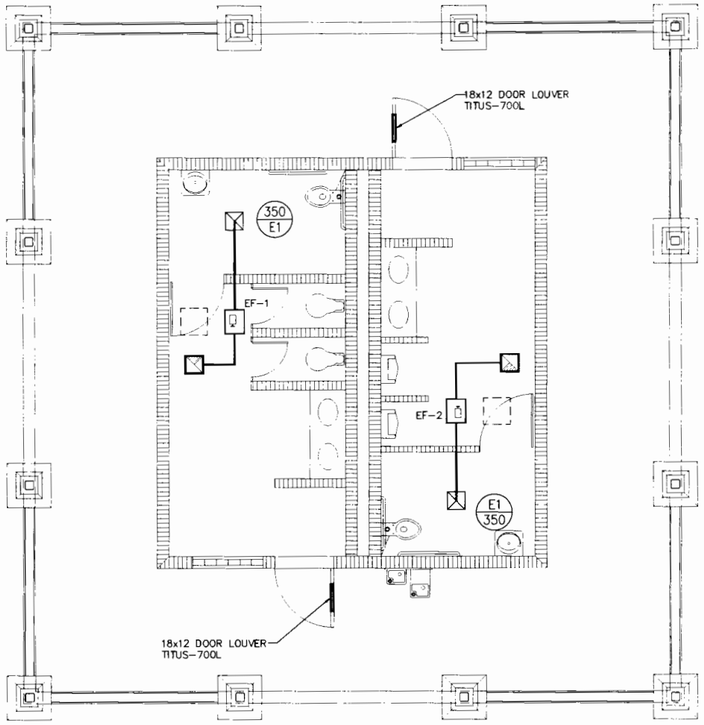
RPB NO: EN-PR0701

Sheet Reference Number
M-R0.1

Sheet 1 of 2



HVAC PLAN
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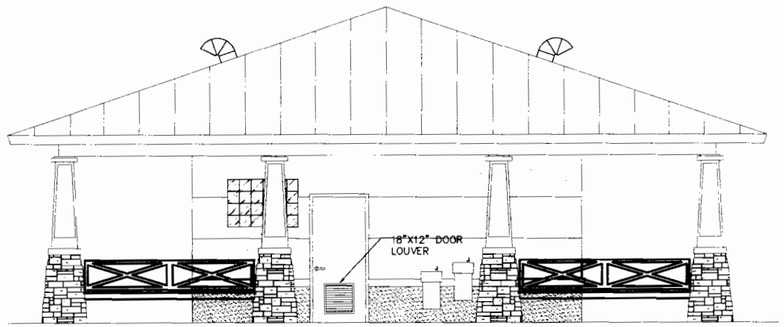

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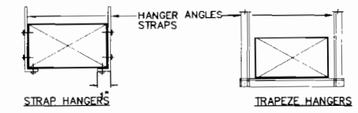
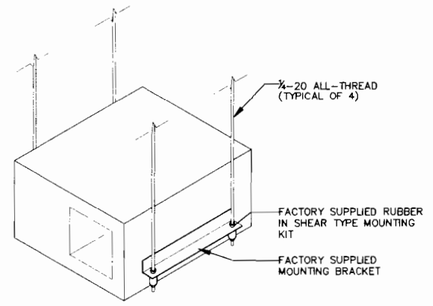
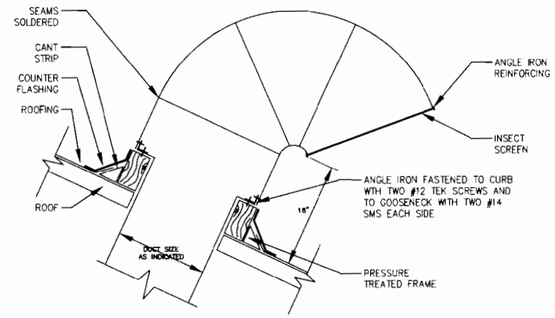


1 M-R2.1 DUCT HANGERS / SUPPORTS DETAIL
SCALE FACTOR : NTS



2 M-R2.1 CABINET FAN ABOVE CEILING MOUNTING DETAIL
SCALE FACTOR : NTS



3 M-R2.1 RECTANGULAR GOOSENECK DETAIL
SCALE FACTOR : NTS

MAREK A. SOLSKI, P.E.
LICENSED ENGINEER: NO. 65629
STATE OF FLORIDA
CERTIFICATE OF AUTHORIZATION # 4088
MAY 19 2009
DATE
PROJ.# 07047

The Village of ROYAL PALM BEACH FLORIDA Incorporated 1968

	By:
Designed:	MAS
Drawn:	KLV
Checked:	MAS

No.	Revisions	Date	By
	PRICING SET	05/29/09	
	PERMIT SUBMITTAL	03/18/09	
	PERMIT REVIEW	12/01/08	
	BID SET		

60059.01

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Sheet Reference Number
M-R2.1

Sheet 2 of 2

ELECTRICAL SPECIFICATIONS — DIVISION 16

1. THE WORK SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS AND AMENDMENTS EFFECTIVE 12/1/08 OF THE NATIONAL ELECTRICAL CODE, FLORIDA BUILDING CODE 2004, 0.S.H.A. REQUIREMENTS AND ALL OTHER LOCAL CODES AND ORDINANCES GOVERNING THIS INSTALLATION, AS A MINIMUM STANDARD, UNLESS SPECIFICATIONS LISTED HEREIN OR SHOWN ON PLANS REQUIRE A HIGHER STANDARD.

THE WORK INCLUDED CONSISTS OF ALL SUPERVISION, LABOR, MATERIALS, EQUIPMENT FACILITIES AND INSTALLATION REQUIRED FOR THE COMPLETE SATISFACTORY AND APPROVED ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND CALLED FOR IN THIS SPECIFICATION, OR AS MAY BE REASONABLY IMPLIED BY EITHER.

ALL NOTES ON THE DRAWINGS PERTAINING TO THE WORK OF THIS TRADE SHALL BE CONSIDERED AS PART OF THIS SPECIFICATIONS AND CONTRACT.

THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND ANY APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, THE CONTRACTOR SHALL NOTIFY THE OWNER OR HIS REPRESENTATIVE AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM, AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL THE OWNER HAS DIRECTED THE CORRECTIVE ACTION TO BE TAKEN. THE CONTRACTOR IS REFERRED TO THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS. SUCH PLANS AND SPECIFICATIONS ARE TO BE CONSIDERED PART OF THE ELECTRICAL CONTRACT DOCUMENTS. DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW APPROXIMATE LOCATIONS AND ARRANGEMENTS ONLY.

THE CONTRACTOR SHALL COORDINATE THE PROPOSED LOCATIONS OF ALL ELECTRICAL MATERIALS AND EQUIPMENT WITH THE REPRESENTATIVES OF THE OTHER TRADES INVOLVED BEFORE STARTING INSTALLATION OF THOSE ITEMS.

COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES, CONDUIT, AND SLEEVES WITH OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED. ALL SLAB AND FIRE WALL PENETRATIONS MUST BE FIRE RATED AND MUST CONFORM TO OWNER'S APPROVAL AS TO LOCATION AND CONSTRUCTION DETAILS.

2. MATERIALS: THE MATERIALS AND EQUIPMENT FURNISHED SHALL BE AS INDICATED ON THE DRAWINGS. SUBSTITUTIONS SHALL NOT BE MADE EXCEPT WHERE EXPRESSLY APPROVED BY THE OWNER OR HIS REPRESENTATIVE PRIOR TO STARTING INSTALLATION OF THE ITEMS. THE ELECTRICAL MATERIALS AND EQUIPMENT FURNISHED SHALL BE LISTED OR LABELED BY UNDERWRITERS LABORATORIES OR OTHER RECOGNIZED TESTING ORGANIZATION, AND SHALL BE ACCEPTABLE TO THE LOCAL BUILDING AUTHORITY.

3. GROUNDING: GROUNDING SHALL BE IN ACCORDANCE WITH ARTICLE 250, NEC. PROVIDE GROUND WIRES IN ALL CONDUITS UNLESS OTHERWISE NOTED.

4. CONDUITS: ELECTRICAL METALLIC TUBING (EMT) SHALL BE INSTALLED ONLY IN DRY LOCATIONS, IN CONCRETE ABOVE GRADE, AND WHERE NOT SUBJECT TO PHYSICAL DAMAGE. ALL ABOVE CEILING CONDUITS SHALL BE ROUTED TIGHT AGAINST THE STRUCTURE AND SHALL BE PARALLEL OR PERPENDICULAR TO THE BUILDING FEATURES. NO NEW CONDUITS SHALL BE SUPPORTED BY EXISTING CONDUITS, CEILING SYSTEMS OR AIR CONDITIONING HANGERS OR OTHER SYSTEMS.

ALL EXPOSED CONDUITS SHALL BE RUN AS NEAT AND INCONSPICUOUS AS POSSIBLE AND PAINTED TO MATCH COLOR OF SURROUNDINGS.

FLEXIBLE CONDUITS SHALL BE USED FOR CONNECTION TO ALL VIBRATING EQUIPMENT SUCH AS MOTORS, LIGHTING FIXTURES, ETC. FLEXIBLE CONDUIT SHALL BE "LIQUID TIGHT" WHEN EXPOSED TO WEATHER.

5. CONDUCTORS SIZE #8 AND LARGER SHALL BE TYPE THWN STRANDED, COPPER. CONDUCTORS SIZE #10 AND SMALLER SHALL BE COPPER, TYPE THWN SOLID, UNLESS NOTED OTHERWISE. CONDUCTORS SHALL CONSIST OF 98% CONDUCTIVITY COPPER AS INDICATED. SIZES ARE AWG. ALL CONDUCTORS SHALL BE RUN IN CONDUIT EXCEPT AS NOTED ON PLANS.

POWER, LIGHTING, AND GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN #12 AWG. EXCEPT WHERE OTHERWISE INDICATED. CONTROL CONDUCTORS SHALL NOT BE SMALLER THAN #14 AWG. CONDUCTORS SHALL BE CONTINUOUS FROM DEVICES WITHOUT SPLICES EXCEPT WITHIN WIRE WAY OR JUNCTION BOXES. MARK CONDUCTORS IN PANELS, PULL BOXES OR WIREWAYS AND TERMINAL STRIP TERMINALS FOR IDENTIFICATION OF CIRCUITS.

CONDUCTORS SHALL BE JOINED USING COMPRESSION SPLICES, EXCEPT THAT CONDUCTORS #10 AND SMALLER MAY BE JOINED USING WIRE NUT TYPE CONNECTORS. CONDUCTORS SHALL BE TERMINATED USING COMPRESSION SPLICES USED ON CONDUCTORS #10 AWG. AND USING 3M #33+ OR #88 PLASTIC TAPE. SPLICES IN WET LOCATIONS SHALL BE INSULATED WITH ELECTRICAL TAPE AND ENCAPSULATED WITH SCOTCH CAST OR EQUAL POTTING COMPOUND.

LOW VOLTAGE CONDUCTORS RUN THROUGH THE RETURN AIR PLENUM SHALL BE PLENUM RATED.OF THE BUILDING AND THE WORK OF OTHER TRADES WILL PERMIT.

6. RECEPTACLES SHALL BE 20A, 120V, 2 POLE, 3 WIRE SINGLE OR DUPLEX GROUND TYPE EXCEPT WHERE SPEGIFC PURPOSE, LOCKING OR HIGHER RATED RECEPTACLES ARE SHOWN ON THE DRAWINGS.

7. WALL SWITCHES SHALL BE OF THE TOTALLY ENCLOSED TUMBLER TYPE WITH BODIES OF PHENOLIC COMPOUND. HANDLES SHALL BE WHITE COLORED.

8. CONTRACTOR SHALL VERIFY ALL EQUIPMENT NAMEPLATE DATA FOR WIRING AND OVER CURRENT PROTECTION REQUIREMENTS BEFORE PERFORMING ROUGH-IN WORK.

9. PROVIDE AND INSTALL JUNCTION AND PULL BOXES WHERE INDICATED AND WHERE NECESSARY TO TERMINATE, TAP OFF, OR REDIRECT MULTIPLE CONDUIT RUNS, OF SIZE INDICATED OR AS REQUIRED BY NEC. WHERE FEEDER SPLICES ARE TO BE MADE, INSTALL BOXES LARGE ENOUGH TO PROVIDE AMPLE WORK SPACE.

10. LIGHTING FIXTURES: LIGHTING FIXTURES SHALL BE AS INDICATED ON THE DRAWINGS AND SHALL BE INSTALLED COMPLETE WITH LAMPS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF CEILING CONSTRUCTION BEFORE ORDERING OR INSTALLING LIGHT FIXTURES.

11. CONTRACTOR SHALL VISIT THE SITE AND DETERMINE THE EXTENT OF REVISIONS TO EXISTING EQUIPMENT AND WIRING TO ACCOMMODATE ARCHITECTURAL CHANGES AND ADDITIONS. ALL THE NECESSARY REROUTING AND/OR REMOVAL OF EXISTING EQUIPMENT, WIRING ETC., SHALL BE INCLUDED IN THE SCOPE OF WORK. CONTRACTOR SHALL REMOVE ALL EXISTING EQUIPMENT AND MATERIALS THAT WILL NOT BE REUSED IN CONSTRUCTION INCLUDING PIPES, CONDUITS, WIRES, TELEPHONE LINES, COMPUTER CABLE OR WIRING THAT PASSED THROUGH THE SITE OF THIS CONSTRUCTION AND RELOCATE THESE MATERIALS THAT SERVE ADJACENT BLDG. THAT ARE TO REMAIN.

12. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY CONTROL WIRING FOR ALL EQUIPMENT. ELECTRICAL POWER AND CONTROL WIRING FOR HVAC AND MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. SEE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR WIRING DIAGRAMS AND REQUIREMENTS. MECHANICAL EQUIPMENT REQUIRING STARTER SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

13. PANEL DIRECTORIES SHALL BE TYPED ACCURATELY TO SHOW AS BUILT CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY BALANCING ALL BRANCH CIRCUITS BETWEEN THE PHASES OF THE SYSTEM REGARDLESS OF CIRCUITING INDICATED. ELECTRICAL PANELS SHALL BE CONSTRUCTED WITH COPPER MAIN BUSSES AND TERMINALS.

14. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THE ARCHITECT BEFORE ROUGH INSTALLATION OF LIGHTS, RECEPTACLES AND SWITCHES FOR EXACT LOCATION.

15. ALL SERVICES INTERRUPTIONS SHALL BE SCHEDULED WITH THE AUTHORIZED REPRESENTATIVE OF THE LANDLORD. ALL REMOVAL AND DISPOSAL WORK SHALL BE COORDINATED WITH THE AUTHORIZED REPRESENTATIVE OF THE LANDLORD.

16. THE ENTIRE INSTALLATION SHALL BE PERFORMED IN A FIRST-CLASS WORK MANNER. THE CONTRACTOR SHALL TOUCH-UP OR REFINISH THE FACTORY FINISH OF EQUIPMENT MARRED DURING SHIPMENT OR INSTALLATION.

17. TESTS: AFTER EACH SYSTEM HAS BEEN COMPLETED, A FUNCTIONAL TEST SHALL BE PERFORMED TO DEMONSTRATE THAT THE SYSTEM OPERATES IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS. THE TEST SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER OR HIS REPRESENTATIVE. ALL WORK SHALL BE GUARANTEED FREE FROM DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE ALL RUBBISH CAUSED BY HIS WORK AND SHALL THOROUGHLY CLEAN ALL ELECTRICAL EQUIPMENT.

18. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO OBTAIN A COMPLETE AND SATISFACTORY INSTALLATION. AN ATTEMPT HAS BEEN MADE TO SEPARATE AND COMPLETELY DEFINE THE WORK IN SEPARATE SECTIONS OF THE SPECIFICATIONS; HOWEVER, SUCH SEPARATION SHALL NOT RELIEVE THE CONTRACTOR FROM FULL RESPONSIBILITY OF COMPLIANCE WITH THE WORK OF HIS/HER TRADE WHICH MAY BE INDICATED ON ANY OF THE DRAWINGS AND OTHER SECTIONS OF THE SPECIFICATIONS.

THE CONTRACTOR SHALL CAREFULLY EXAMINE THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS. IN ADDITION TO THE ELECTRICAL AND OTHER RELATED TRADES AND SECTIONS, THIS COORDINATION SHALL BE DONE PRIOR TO SUBMITTING THE BID.

THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE ELECTRICAL DRAWINGS WITH REFERENCE TO BUILDING CONSTRUCTION AND DIMENTIONS. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC BUT ARE TO BE FOLLOWED AS CLOSELY AS THE ACTUAL CONSTRUCTION OF THE BUILDING AND THE WORK OF OTHER TRADES WILL PERMIT.

LIGHTING FIXTURE SCHEDULE

TYPE	SYMBOL	DESCRIPTION	VOLTS	LAMP NO.	LAMP TYPE	MOUNTING	REMARKS
B	▬	4' FLUORESCENT VANITY – VANDAL, WITH 1400 LUMEN 90-MINUTE EMERGENCY BALLAST, FAILSAFE #FMC-D-232-81/85-EB81-EBP	120	2	32W T8	WALL SURFACE	VERIFY MTG HEIGHT
W	◡	EXTERIOR WALL SCONCE – VANDAL, FAILSAFE #TRM15-232CT	120	2	32W TBX	WALL SURFACE	VERIFY MTG HEIGHT
X1	✣	VANDAL EXIT WITH 90-MINUTE BATTERY BACK-UP, SELF DIAGNOSTIC, SURELITE #CX7170RWSD-VS1	120	–	–	CEILING /WALL SURFACE	

GENERAL NOTES:
1) VERIFY ALL COLORS/ FINISHES WITH ARCHITECT/ INTERIOR DESIGNER.
2) WIRE ALL EXIT SIGNS & EMERGENCY LIGHTING AHEAD OF SWITCH UNLESS INDICATED OTHERWISE.
3) WIRE ALL EMERGENCY BALLAST TO BE SWITCHABLE UNLESS INDICATED OTHERWISE.
4) VERIFY CEILING TYPES & CLEAR CEILING PRIOR TO BID/ PURCHASE.

BRANCH CIRCUIT PANEL "RA"

MAIN: 225A MAIN CIRCUIT BREAKER, NEMA 3R — VOLTAGE: 208/120V, 3ø, 4 WIRE
MOUNTING: SURFACE — AIC SYMM: 22,000
SPEC: SQUARE D TYPE "NQOD", NEMA 3R

DESCRIPTION	WIRE/CND	TRIP	CKT	ø A KVA	ø B KVA	ø C KVA	CKT	TRIP	WIRE/CND	DESCRIPTION
LTG, INTERIOR	2#12 & 1#12G IN ½"	20	1	0.6 0.4	— —	—	2	20	2#12 & 1#12G IN ½"	REC, TELEPHONE
LTG, EXTERIOR ③	2#12 & 1#12G IN ½"	20	3	—	1.7 1.5	—	4	20	2#12 & 1#12G IN ½"	REC, TOILET
LTG, GENERAL	2#12 & 1#12G IN ½"	20	5	— —	—	1.7 0.5	6	20	2#12 & 1#12G IN ½"	PLUMB FIXTURE SENSORS
REC, VENDING	2#12 & 1#12G IN ½"	20	7	1.2 1.2	—	—	8	20	2#12 & 1#12G IN ½"	REC, VENDING
REC, VENDING	2#12 & 1#12G IN ½"	20	9	— —	1.2 1.2	—	10	20	2#12 & 1#12G IN ½"	REC, VENDING
HAND DRYER, WOMEN	2#12 & 1#12G IN ½"	20	11	—	—	1.5 1.5	12	20	2#12 & 1#12G IN ½"	HAND DRYER, MEN
HAND DRYER, WOMEN	2#12 & 1#12G IN ½"	20	13	1.5 1.5	—	—	14	20	2#12 & 1#12G IN ½"	HAND DRYER, MEN
SPARE	2#12 & 1#12G IN ½"	20	15	—	0.5 0.8	—	16	20	2#12 & 1#12G IN ½"	DRINKING FOUNTAIN
SPARE	2#12 & 1#12G IN ½"	20	17	—	—	0.5 0.5	18	20	2#12 & 1#12G IN ½"	RECEPTACLE
SURGE ARRESTER	3#12 & 1#12G IN ½"	20	19	0.1 0.5	—	—	20	30	–	SPARE
			21	—	0.1 0.5	—	22	30	–	SPARE
			23	—	—	0.1 –	24	30	–	SPARE
PANEL "RB"	4#1 & 1#6G IN 2"	125	25	10.4 –	—	—	26	20	–	SPACE
			27	—	8.8 –	—	28	20	–	SPACE
			29	—	—	8.8 –	30	20	–	SPACE
				17.4	16.3	15.1	KVA PER PHASE			
				145	136	126	AMPS PER PHASE			
				49			TOTAL KVA			

BRANCH CIRCUIT PANEL "RB"

MAIN: 125A MLO — VOLTAGE: 208/120V, 3ø, 4 WIRE
MOUNTING: SURFACE — AIC SYMM: 22,000
SPEC: SQUARE D TYPE "NQOD", NEMA 3R

DESCRIPTION	WIRE/CND	TRIP	CKT	ø A KVA	ø B KVA	ø C KVA	CKT	TRIP	WIRE/CND	DESCRIPTION
RECEPTS, PWR PEDESTAL	2#12 & 1#12G IN ½"	20	1	0.8 0.8	— —	—	2	20	2#12 & 1#12G IN ½"	RECEPTS, PWR PEDESTAL
RECEPTS, PWR PEDESTAL	2#12 & 1#12G IN ½"	20	3	—	0.8 0.8	—	4	20	2#12 & 1#12G IN ½"	RECEPTS, PWR PEDESTAL
RECEPTS, PWR PEDESTAL	2#12 & 1#12G IN ½"	20	5	—	—	0.8 0.8	6	20	2#12 & 1#12G IN ½"	RECEPTS, PWR PEDESTAL
RECEPTS, PWR PEDESTAL	2#12 & 1#12G IN ½"	20	7	0.8 0.8	—	—	8	20	2#12 & 1#12G IN ½"	RECEPTS, PWR PEDESTAL
–	–	20	9	—	– –	—	10	20	–	–
–	–	20	11	—	—	– –	12	20	–	–
–	–	20	13	– –	—	—	14	20	–	–
–	–	20	15	—	– –	—	16	20	–	–
–	–	20	17	—	—	– –	18	20	–	–
INSTA-HOT, WOMEN	2#12 & 1#12G IN ½"	20	19	1.8 1.8	—	—	20	20	2#12 & 1#12G IN ½"	INSTA-HOT, MEN
			21	—	1.8 1.8	—	22			
INSTA-HOT, WOMEN	2#12 & 1#12G IN ½"	20	23	—	—	1.8 1.8	24	20	2#12 & 1#12G IN ½"	INSTA-HOT, MEN
			25	1.8 1.8	—	—	26			
INSTA-HOT, WOMEN	2#12 & 1#12G IN ½"	20	27	—	1.8 1.3	—	28	20	2#12 & 1#12G IN ½"	INSTA-HOT, MEN
			29	— —	—	1.8 1.8	30			
				10.4	8.8	8.8	KVA PER PHASE			
				87	73	73	AMPS PER PHASE			
				28			TOTAL KVA			

ELECTRICAL SYMBOL LEGEND

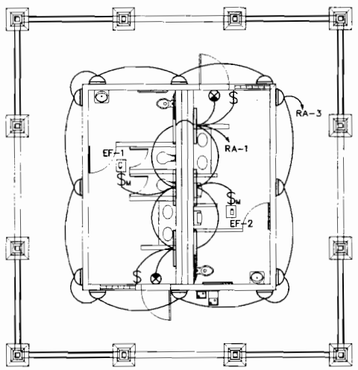
- $ — 20A, 120V, SINGLE POLE LIGHT SWITCH. MOUNT CENTER AT 48" AFF. "M" DENOTES PROVIDE MOTOR RATED DEVICE PER EQUIPMENT NAME PLATE.
- 20A, 120V, DUPLEX RECEPTACLE. WALL MOUNT CENTER AT 18" AFF.
- 20A, 120V, GFI, DUPLEX RECEPTACLE. WALL MOUNT CENTER AT 18" AFF.
- 20A, 120V, GFI, DUPLEX RECEPTACLE. WALL MOUNT CENTER AT 4" ABOVE COUNTER BACKSPLASH, COORDINATE WITH MILLWORK.
- 20A, 120V, QUADDRUPLEX RECEPTACLE. MOUNT CENTER AT 18" AFF.
- HD — POWER CONNECTION FOR HAND DRYER. COORDINATE EXACT REQUIREMENTS WITH CONTRACTOR.
- S — POWER CONNECTION FOR PLUMBING FIXTURE SENSOR. COORDINATE EXACT REQUIREMENTS WITH CONTRACTOR.
- ▽ — TELEPHONE/DATA OUTLET. WALL MOUNT AT 18" AFF. PROVIDE 3/4" CONDUIT WITH PULLSTRING TO 6" ABOVE CEILING. USE 1" CONDUIT FOR THOSE DENOTED WITH A "2".
- TC — ASTONOMICAL TIMECLOCK WITH COMBINATION PHOTOCELL. MOUNT ABOVE PANEL.
- ELECTRICAL PANEL
- 30A 3P — DISCONNECT SAFETY SWITCH (3) POLES, 30A FRAME "**" DENOTES CONTRACTOR TO PROVIDE FUSES PER MANUFACTURER'S NAMEPLATE, UNLESS NOTED OTHERWISE. "NF" DENOTES NOT FUSED.
- WP — WEATHER PROOF
- GFI — GROUND FAULT CIRCUIT INTERRUPTER
- AFF — ABOVE FINISHED FLOOR

KEYED NOTES

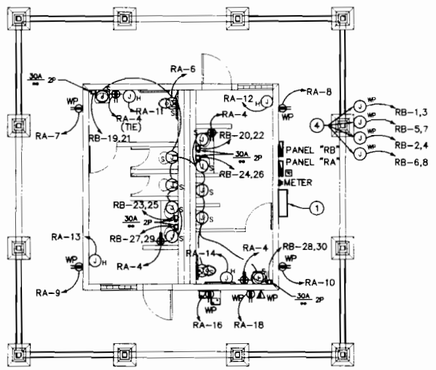
1. BUILDING MAIN TELEPHONE SERVICE ENCLOSURE. 36"x36"x8" BANNER BOX SYSTEM. WITH QUADRUPLEX RECEPTACLE INDICATED, GROUND BAR AND 1#6G IN ¾" TO BUILDING GROUNDING ELECTRODE SYSTEM. MOUNT BOTTOM AT 36" AFF. RUN 2-3" EMPTY CONDUITS WITH PULLSTRING UNDERGROUND TO BELLSOUTH UTILITY EASEMENT. COORDINATE EXACT LOCATION WITH UTILITY.
2. #2 COPPER GROUNDING ELECTRODE TO BUILDING GROUNDING ELECTRODE SYSTEM. ¾"Øx10' COPPER GROUND ROD AND BUILDING STRUCTURAL STEEL.
3. WIRE THROUGH TIMECLOCK "TC". SEE LOCATION THIS SHEET.
4. POWER CONNECTIONS FOR FOUNTAIN. COORDINATE WITH SYSTEM ELECTRICAL DRAWINGS UNDER SEPARATE PERMIT FOR EXTENSION TO FOUNTAIN. VERIFY CONDUCTOR LENGTH FOR VOLTAGE DROP AND ADVISE ENGINEER.

GENERAL NOTES

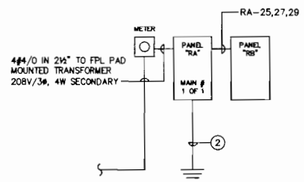
1) PROVIDE THUNDERSTORM DETECTOR/PREDICTOR, SENSORS & WARNING DEVICES. COORDINATE ALL DEVICE LOCATIONS WITH OWNER/CONTRACTOR PRIOR TO INSTALLATION.
2) PROVIDE UL MASTER LABEL LIGHTNING PROTECTION SYSTEM. COORDINATE ALL DEVICE LOCATIONS WITH OWNER/CONTRACTOR PRIOR TO INSTALLATION.
3) PROVIDE ALL EXTERIOR DEVICES WITH LOCKABLE COVERS.



LIGHTING PLAN
SCALE: 1/8"=1'0"



POWER PLAN
SCALE: 1/8"=1'0"



ELECTRICAL RISER DIAGRAM

SCALE: N.T.S.

MILTON KRAMER, P.E.
LICENSED ENGINEER NO. 58667
STATE OF FLORIDA
CERTIFICATE OF AUTHORIZATION # 4066
MAY 19 2009
DATE:
PROJ.# 07047

The Village of ROYAL PALM BEACH — FLORIDA — Incorporated 1959

	By:
Designed:	MK
Drawn:	KLV
Checked:	DCC

No.	Revisions	Date	By:
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60059.01

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RESTROOM

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RPB NO: EN-PR0701
Sheet Reference Number
E-R0.1
Sheet 1 of 1

GENERAL SPECIFICATIONS

1. ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN A FIRST CLASS WORKMAN LIKE MANNER. SAID CONTRACTOR SHALL MEET ALL REQUIRMENTS SET FORTH BY ANY LOCAL ORDIANCE AND OR GOVERNING AUTHORITIES EFFECTIVE 12/1/08.
2. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDENCE WITH APPLICABLE NATIONAL, STATE, AND LOCAL CODES, AND ORDINANCES EFFECTIVE 12/1/08.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS, AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK SHOWN AND/OR NOTED ON THE DRAWINGS.
4. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
5. CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND VERIFY ALL CONDITIONS, LOCATIONS, DIMENSIONS AND COUNTS AS SHOWN AND/OR NOTED ON THE DRAWINGS. THIS SHALL INCLUDE ANY AND ALL FABRICATIONS REQUIRED PRIOR TO INSTALLATION.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR THE ADVANCED ORDERING OF LONG LEAD ITEMS AS NOT TO INTERFER WITH THE PRODUCTION OF OTHER TRADES RESULTING IN ANY DOWN OR LAG TIME.
7. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) YEAR FROM DATE OF ACCEPTANCE, UNLESS INDICATED OR SPECIFIED ORTHERWISE.
8. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
9. THE CONTRACTOR SHALL BE RESPONABLE TO REPAIR TO ORIGINAL CONDITION ANY AND ALL DAMAGES TO BUILDING SURFACES, EQUIPMENT, AND FURNISHINGS CAUSED DURING PERFORMANCE OF WORK.
10. LOCATION OF PLUMBING ROUGH-IN MAY CHANGE. VERIFY EXACT LOCATION WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION. DRAWINGS ARE DIAGRAMMATIC, DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
11. ALL MATERIALS SHALL BE NEW AND SHALL BEAR UNDERWRITER'S LABEL WHERE APPLICABLE.
12. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTANCE BY ARCHITECT/ENGINEER MUST BE A CONDITION OF THE CONTRACT.
13. ALL EXCAVATION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
14. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS, AND TESTINGS.
15. ARCHITECTURAL AND/OR ENGINEERING EXPENSES THAT ARE INCURRED DUE TO REVISIONS OR SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE PAID FOR BY THAT CONTRACTOR.
16. DOMESTIC WATER PIPING TO BE IN ACCORDANCE WITH FLORIDA BUILDING PLUMBING CODE 610 DISINFECTION OF POTABLE WATER SYSTEM & CODE 606.6 WATER SYSTEM TEST.
17. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
18. VERIFY LOCATION, SIZE, ELEVATION, MATERIALS, AND PRESENT STATE OF ALL EXISTING UTILITIES.
19. INSTALL READILY ACCESSIBLE GATE VALVES IN ALL BRANCH WATER LINES SERVING ANY ROOM HAVING PLUMBING FIXTURES. ALL FIXTURES SHALL BE PROVIDED WITH READILY ACCESSIBLE VALVES.
20. MAIN WATER SUPPLY SHALL BE EQUIPTED WITH A BACKFLOW PREVENTER
21. ALL THREADED WATER OUTLETS (EXCEPT FOR AUTOMATIC CLOTHES WASHERS) SHALL BE FURNISHED WITH WATTS #8A APPROVED VACUUM BREAKERS.
22. FURNISH AND INSTALL APPROVED WATER HAMMER ARRESTORS ON QUICK CLOSING VALVES NEAR THE FIXTURES IN AN EFFECTIVE RANGE.
23. WHERE DISSIMILAR METALS ARE TO BE JOINED, APPROVED INSULATING UNIONS SHALL BE USED.
24. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
25. IF THE CONTRACTOR PROPOSES TO USE ANY ARTICLE, DEVICE, PRODUCT, OR MATERIALS WHICH IS NOT AS SPECIFIED, THE CONTRACTOR SHALL BE RESPONSIBILITY TO PROVE TO THE ARCHITECT/ENGINEER THAT THE PROPOSED SUBSTITUTION IS EQUAL.
26. THE CONTRACTOR SHALL KEEP ALL AREAS IN WHICH WORK IS BEING PERPFORMED, FREE FROM DEBRIS AT ALL TIMES AND SAID AREAS SHALL BE LEFT BROOM CLEAN AT THE END OF EACH WORKING DAY.
27. THE CONTRACTOR SHALL FURNISH A COMPLETE SET OF AS-BUILT DRAWINGS, SHOWING ALL CHANGES AND DEVIATIONS, TO THE ARCHITECT/ ENGINEER PROIR TO COMPLETION OF THE PROJECT.

GENERAL NOTES

1. DO NOT SCALE DRAWINGS FOR PARTITION LOCATION. CONSULT ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
2. CONTRACTOR SHALL VISIT SITE TO VERIFY FIELD CONDITIONS & PHYSICAL LOCATIONS & SIZE OF EXISTING SERVICES.
3. SANITARY LINES LARGER THAN 2½" TO SLOPE ⅛"/FOOT.
4. SANITARY LINES 2½" AND LESS TO SLOPE ¼"/FOOT.
5. CONSULT ARCHITECTURAL DRAWINGS FOR ALL FINISH FLOOR & GRADE ELEVATIONS.
6. SEE ARCHITECTURAL DRAWINGS FOR ROOF DRAINAGE.

PLUMBING LEGEND

- COLD WATER
- SANITARY SOIL OR WASTE PIPING
- VENT
- POINT OF CONNECTION TO NEW OR EXISTING
- G.V. GATE VALVE
- B.V. BALL VALVE
- P&T.V. PRESSURE TEMPERATURE RELIEF
- CH.V. SWING CHECK VALVE
- BL.V. BALANCING VALVE
- W.M. WASHING MACHINE
- PIPING TURN DOWN
- PIPING TURN UP
- UNION
- FLANGED
- C.O. CLEAN-OUT
- VALVED AND CAPPED END
- CAPPED END

NOTE: THESE ARE STANDARD SYMBOLS AND MAY NOT APPEAR ON ALL PROSECT DRAWINGS

HANGER SCHEDULE - ROD SIZE

PIPE SIZE	ROD DIA.
1/2"	3/8"
3/4"	3/8"
1"	3/8"
1-1/4"	3/8"
1-1/2"	3/8"
2"	3/8"
2-1/2"	1/2"
3"	1/2"
3-1/2"	1/2"
4"	5/8"
5"	5/8"
6"	3/4"
8"	7/8"

NOTE:
CONTRACTOR TO COMPLY WITH FBC SEC 308 & HANGER SPACING TABLE 308.5

PLUMBING DRAWING INDEX

MATERIAL SPECIFICATIONS

1. DOMESTIC WATER PIPING SHALL BE HARD COPPER PIPE TYPE "L" ANSI / ASTM B-88 FOR 2" AND UNDER. WITH WROUGHT-COPPER SOLDER-JOINTS FITTINGS ASTM B-16.22. BELOW GRADE PIPING SHALL BE TYPE "K" ANSI / ASTM SOFT COPPER WITH NO JOINTS OR FITTINGS BELOW GRADE.
2. PIPING: SOIL, WASTE AND VENT PIPING SHALL BE POLYVINYL CHLORIDE SCHEDULE 40 (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS. PIPES AND FITTINGS SHALL CONFORMING TO ANSI STANDARD K65.56-1971 AND ASTM STANDARD D2665-82. SOLVENT CEMENT FOR POLYVINYL CHLORIDE (PVC) PLASTIC PIPE AND FITTINGS SHALL CONFORM TO ANSI STANDARD B72.16-1971 AND ASTM STANDARD D2564-80.
3. INSULATE ALL HOT WATER, LINES, AS FOLLOWS: HW SUPPLY 1" THICK PREFORMED ARMAFLEX PIPE INSULATION.

FIXTURE SCHEDULE

EQUIPMENT SELECTION BASED ON :		SYSTEM CONNECTIONS				
SYMBOL	ITEM DESCRIPTION	CW	HW	TRAP	FIXTURE UNITS	REMARKS:
P.1	WATER CLOSET (STD)	1"	---	INTEGRAL	6	FLUSH VALVE, FLOOR MOUNTED SENSOR OPERATED HARD WIRED. LOW VOLUME.
P.2	WATER CLOSET (A.D.A.)	1"	---	INTEGRAL	6	FLUSH VALVE, FLOOR MOUNTED SENSOR OPERATED HARD WIRED. LOW VOLUME.
P.3	LAVATORY (STD) & FAUCET	1/2"	1/2"	1-1/2"	2	COUNTER TOP SENSOR OPERATED HARD WIRED
P.4	LAVATORY (ADA) & FAUCET	1/2"	1/2"	1-1/2"	2	WALL HUNG SET RIM @ 34" A.F.F. SENSOR OPERATED HARD WIRED
P.5	URINAL	3/4"	---	2"	4	WALL HUNG SENSOR OPERATED HARD WIRED. LOW VOLUME.
P.6/6A	DRINKING WATER COOLER	1/2"	---	1-1/4"	.5	SEE NOTE: 6
P.7	HOSE BIBB	3/4"	---	---	5	SEE NOTE 3

NOTE:
PLUMBING FIXTURES SHOWN OR EQUAL SHALL BE PROVIDED BY PLUMBING CONTRACTOR WITH SHOP DRAWINGS ON EACH FIXTURE SUBMITTED FOR APPROVAL BY THE OWNER & ARCHITECT.

NOTE:
1. PROVIDE ACCESS PANELS FOR EACH GANG OF VALVES.
2. PROVIDE AND INSTALL TRAP AND SUPPLY LINE INSULATION KIT.
3. HOSE BIBB WITH VACUUM BREAKER. WOODFORD MODEL.
4. FIAT No MSB-2424 FAUCET WITH VACUUM BREAKER. PLATE No 830-AA. STRAINER PLATE No 1453-BB-FLAT.
5. ALL PLUMBING FIXTURES & FIXTURE FITTINGS SHALL COMPLY WITH FBC PLUMBING TABLE SEC.604.4 & SEC.604.
6. BARRIER FREE HIGH/LOW WALL MOUNTED 7.5 GPH. FRONT PUSH BARS 115V, ø1, 5.1 FLA, ½ HP. P.6 MOUNT AT (STD) HEIGHT. P.6A MOUNT AT (ADA) COMPLIANT HEIGHT AS REQUIRED TO COMPLY WITH ALL CODES FOR (ADA).

WATER HAMMER ARRESTOR - PIPING SCHEDULE

SELECTION BASE ON ZURN MANUFACTURING SHOKSTOP DATA :

MFG.CAT.	TYPE NO.	100	200	300	400	NOTE: **
P. D. I.	SYSTEM	A	B	C	D	
FIXTURE	UNIT RATING	1 - 11	12 - 32	33 - 60	60 -113	REMARKS:
SYMBOL	Z-1700	88 F.U.	256 F.U.	490 F.U.	904 F.U.	NOTE: **

NOTE: ** CONTRACTOR SHALL PROVIDE AND INSTALL WATER HAMMER ARRESTORS IN DOMESTIC PIPING SYSTEM AS PER FBC 604.9 AND PER MANUFACTURERS RECOMMENDATION.

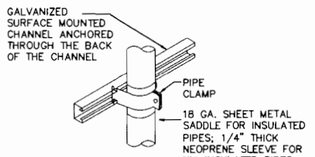
FLOOR DRAIN - SCHEDULE

SYMBOL	SELECTION BASED ON: MANUFACTURER	MODEL NO.	SIZE	REMARKS
FD	ZURN	Z-415-6B-P	3"	ALL AREA - WHERE SHOWN ON PLANS

NOTE:
1) ALL FLOOR DRAINS SHALL BE RESEALED BY MEANS OF A ZURN TRAP PRIMER VALVE INSTALLED IN COLD WATER SUPPLY LINE FROM THE NEAREST SINK OR LAVATORY AND WITH 1/2 INCH DRAIN SLOPED TO THE FLOOR DRAIN. OR BY APPROVED ALTERNATE METHOD EQUAL TO THE ABOVE.
2) COORDINATE WITH ARCHITECTURAL DRAWING FOR FLOOR OR AREA FINISH; AND PROVIDE CORRECT TOP STYLE FOR CERAMIC OR QUARRY TILE, ASPHALT OR VINYL TILE, TERRAZZO, POURED OR TRAWLED SYNTHETIC, FINISH CONCRETE, AND ALL PAVED AREAS, PROVIDE FOR FLOORS HAVING A WATERPROOF MEMBRANE, USE ZURN FLANGE CLAMPING RING.

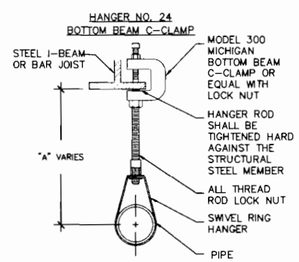
TANKLESS HOT WATER HEATER SCHEDULE

SYMBOL	MANUFACTURER	WIRING	VOLTS	AMPS	KW	SET MAX. TEMP.	REMARKS
RP.1	CEC POWER STREAM	8 GA.	208	18	3.5	110°	WITH 0.5 GPM FAUCET AERATOR FOR LAVATORIES, MOUNT HEATER UNDER LAVATORIES.

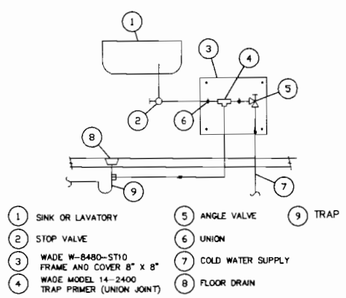


NOTES:
1. APPLICABLE FOR CONTROL TUBING
2. APPLICABLE FOR PIPING NO LARGER THAN 1-1/2"
3. APPLICABLE FOR HORIZONTAL TRAPEZE OR FOR VERTICAL PIPING

PIPE / TUBE SUPPORT
N.T.S.



PIPE HANGER / SUPPORT
N.T.S.



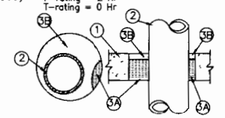
(ALTERNATE) TRAP PRIMER
N.T.S.

CAJ1064 (369)

2 Hour Fire Rated Through Penetration Firestop for Single Metal Pipe through Concrete floors or walls using FYRE-SIL

TREMCO
3735 Green Rd.
Beachwood, OH, 44122
Drawing not to scale

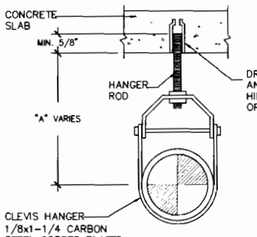
F-rating = 2 Hr
T-rating = 0 Hr



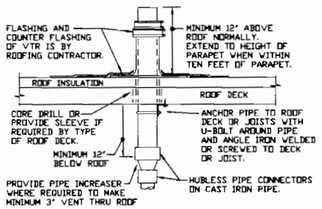
1. FLOOR OR WALL ASSEMBLY = 4.5" THICK CONCRETE
2. COPPER TUBING - 4" (OR SMALLER) TYPE L (OR HEAVIER)
3. A) PACKING MATERIAL - MIN. 3 1/2" THICKNESS (MIN. 6 PCF) MINERAL WOOL INSULATION
   B) MIN. 1/2" THICKNESS FYRE-SIL INSTALLED WITHIN ANNULUS

NOTE: FOR WALLS APPLY FYRE-SIL TO BOTH SURFACES OF WALL.

FLOOR PENETRATION
N.T.S.



PIPE HANGER / SUPPORT
N.T.S.



REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM THREE FEET FROM PROPERTY LINE, OR TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, OR ONE FOOT FROM ANY VERTICAL SURFACE. LOCATE VTR MINIMUM 18" FROM PARAPET, EXPANSION JOINT, EQUIPMENT CURB, ETC. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS.

VENT THRU ROOF (VTR)
N.T.S.

DAVID C. COVALT, P.E.
LICENSED ENGINEER NO. 45841
STATE OF FLORIDA
CERTIFICATE OF AUTHORIZATION # 4088

MAY 19 2009
DATE:
PROJ # 07047

The Village of ROYAL PALM BEACH
Florida
Incorporated 1959

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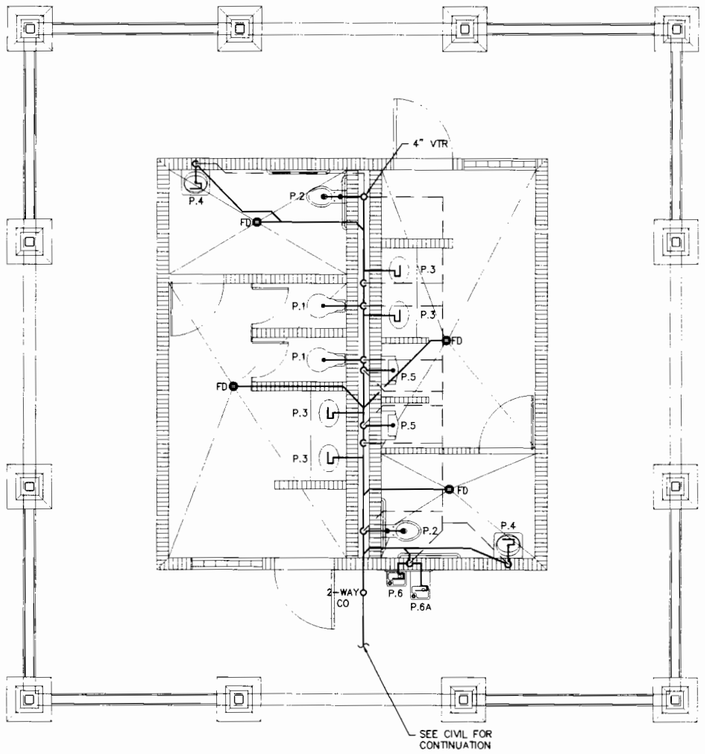
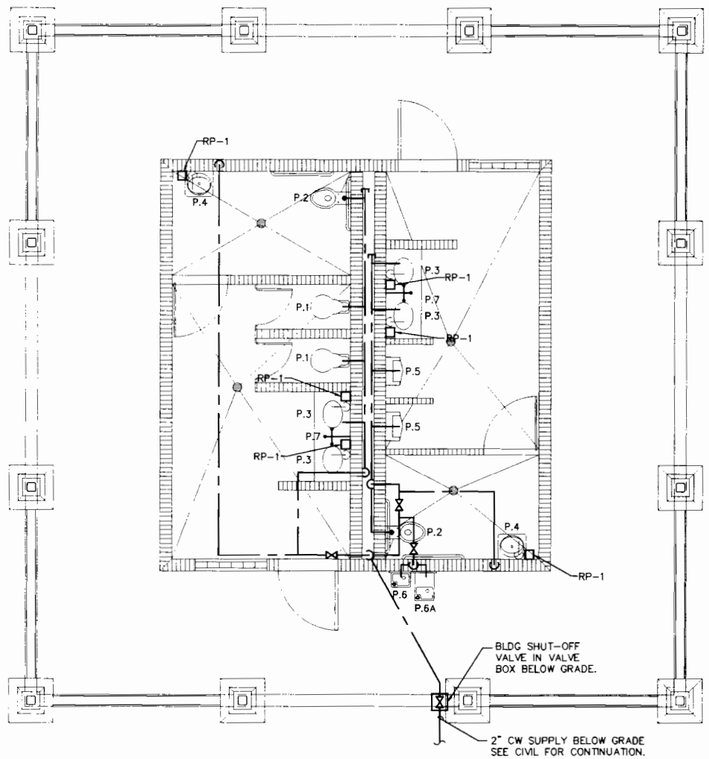
Sheet 1 of 3

NOTE:
1. WATER CLOSETS AND URINALS TO BE LOW VOLUME.



SANITARY PLAN
SCALE: 1/4"=1'0"



DOMESTIC WATER PLAN
SCALE: 1/4"=1'0"

The Village of ROYAL PALM BEACH FLORIDA Incorporated 1959

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Designed:	LN
Drawn:	KLV
Checked:	DCC

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CERTIFICATE OF AUTHORIZATION # 4088
MAY 19 2009
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PROJ.# 07047

RPB NO: EN-PR0701
Sheet Reference Number
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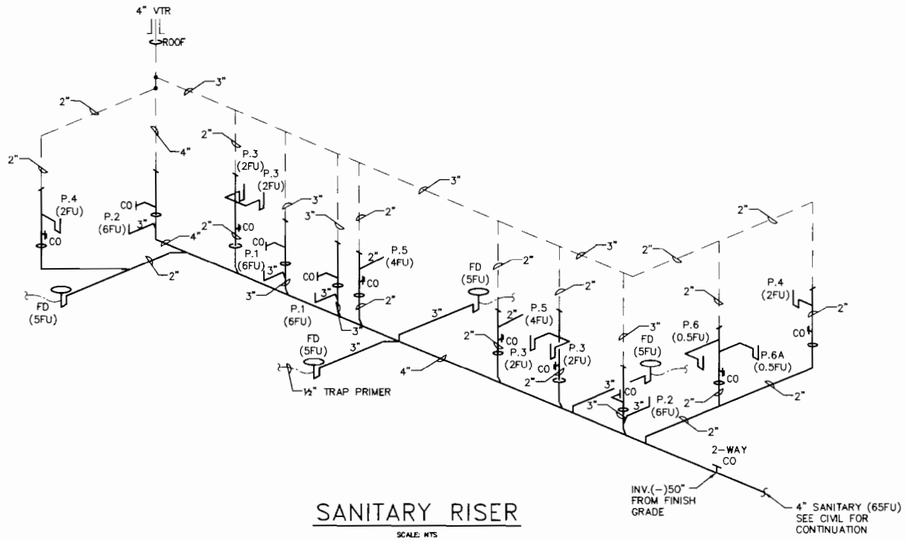
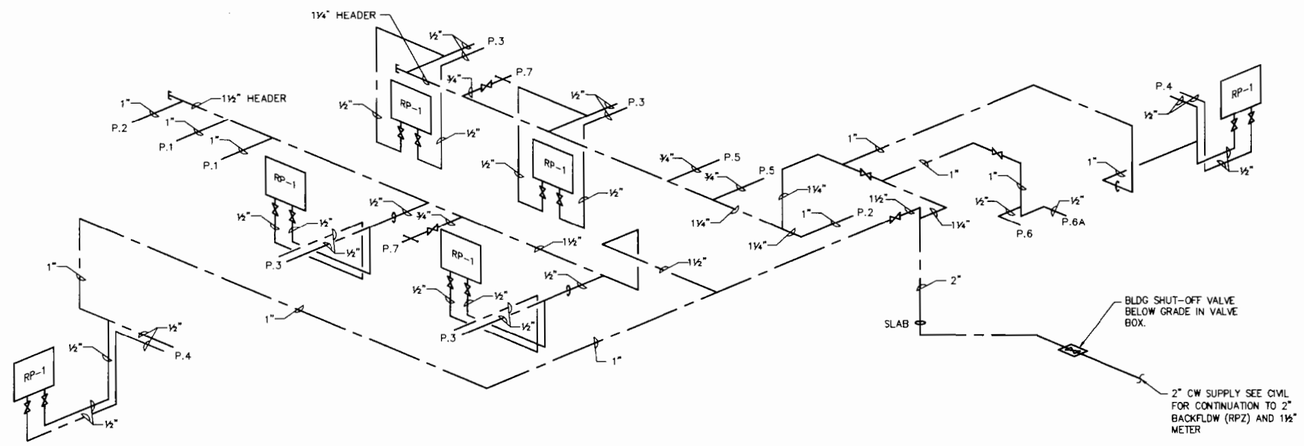
Sheet 2 of 3



SANITARY RISER

SCALE: NTS



DOMESTIC WATER RISER

SCALE: NTS

The Village of ROYAL PALM BEACH
Incorporated 1959

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Sheet 3 of 3