## REFLECTED CEILING PLAN GRAPHIC LEGEND

NOTE: ALL SYMBOLS SHOWN OR ITEMS SYMBOLIZED MAY NOT BE USED IN THIS CONTRACT

- (15'-0") — SPECIFIC CEILING HEIGHT ABOVE FINISH FLOOR. ALL AREAS 9'-0" ABOVE FINISH FLOOR UNLESS OTHERWISE SPECIFIED ON REFLECTED CEILING PLANS.
- 2'-0"x2'-0" LAY-IN ACOUSTICAL CLG PNL W/ SQ EDGE IN SUSP EXP TEE GRID (ACP-3 & ACP-4) INSTALLED AS SHOWN ON PLAN
- GYP BD CLG W/PNT FIN ON MTL SUPPORT/FR SYSTEM INSTALLED AT 9'-0" ABOVE FINISH FLOOR (UNLESS OTHERWISE NOTED).
- STUCCO ON METAL LATH ON SUSPENDED METAL SYSTEM AT 9'-0" ABOVE FINISH FLOOR (UNLESS OTHERWISE NOTED).
- 2'-0"x2'-0" FLUORESCENT LUMINAIRE
- INDIRECT PENDANT LIGHTING
- INCANDESCENT LUMINAIRE
- SQ LUMINAIRE
- EXIT LIGHT (ONLY CLG MOUNTED INDICATED)
- SUPPLY AIR DIFFUSER
- RETURN AIR/EXHAUST REGISTER
- (D) DETECTOR
- (S) SPEAKER
- (H) HEAT DETECTOR
- (V) AUDIOVISUAL ALARM
- 4' FLUORESCENT LIGHTING FIXTURE STRIP
- 2'-0"x4'-0" FLUORESCENT LUMINAIRE
- 1'-0"x4'-0" INDIRECT FLUORESCENT LUM.
- CLG ACCESS PNL-2'-6"x2'-6" MIN UON
- 8'-0" FLUORESCENT LUMINAIRE
- ABV CLG VALVES ACCESS PNL-MIN 1-0"x1'-0" UON

## REFLECTED CLG GENERAL NOTES:

A. SEE ELECT DRWGS FOR LUMINAIRE TYPE & MOUNTING REQ.

B. SEE MECH DRWGS FOR SIZE & TYPE OF DIFFUSERS AND REGISTERS.

C. VERIFY LOCATION OF CEILING VALVE ACCESS PANELS W/ MECH DWGS.

D. ALL CEILINGS TO BE 9'-0" A.F.F. UNLESS OTHERWISE SPECIFIED ON REFLECTED CEILING DRAWINGS.

## LIFE SAFETY LEGEND

| | |
|---|---|
| >>>>>>>>>>> | DISTANCE (WORST CONDITION) |
| • | FARTHEST POINT |
| | SMOKE FIRE RATED WALL |
| | ONE HOUR FIRE RATED WALL |
| | TWO HOUR FIRE RATED WALL |
| | THREE HOUR FIRE RATED WALL |
| E | EXIT DISCHARGE TO ENCLOSED COURTYARD OR PROTECTED CORRIDOR |
| | EMERGENCY LIGHTING |
| | EXIT LIGHT |
| 30 | OCCUPANCY OF SPACE |
| F WP | WEATHERPROOF FIRE ALARM HORN AND STROBE |
| F | FIRE ALARM HORN AND STROBE |
| FL | FIRE ALARM STROBE |
| H | HEAT DETECTOR |
| DD | DUCT SMOKE DETECTOR |
| 40 | REQUIRED CAPACITY OF EXIT |
| ES | ELEVATOR SMOKE DETECTOR |
| S | SMOKE DETECTOR |
| F | FIRE ALARM PULL STATION |
| | TWO-WAY CALL BUTTON |
| DH | DOOR HOLDER |
| DI | EMERGENCY DISCONNECT |
| GSS | GAS SOLENOID VALVE |
| FE | FIRE EXTINGUISHER (BRACKET) |
| FEC | FIRE EXTINGUISHER IN CABINET |
| DOORS IN | ALL DOORS LOCATED IN A FIRE RATED WALL SHALL BE RATED. REFER TO DOOR SCHEDULE. |
| DUCTWORK CROSSING | ALL DUCTWORK CROSSING A FIRE RATING SHALL BE PROVIDED WITH A FIRE DAMPER. REFER TO HVAC DWGS. |
| C S | CLOCK SPEAKER |
| | DOUSING SHOWER AND EYEWASH |

## GENERAL LEGEND

| | |
|---|---|
| | PROPOSED 8" CONC. BLOCK WALL |
| | PROPOSED INTERIOR PARTITION |

## FURNITURE LEGEND

| | |
|---|---|
| - - - - - - | N.I.C. FURNITURE |
| ———— | I.C. FURNITURE |
| DC-103 | N.I.C. DESIGNATION |
| 708 | I.C. DESIGNATION |
| | |

THESE PLANS HAVE BEEN REVIEWED AND CERTIFIED FOR ACCESSIBILITY COMPLIANCE BY THE DESIGN PROFESSIONAL .

THESE CONSTRUCTION DOCUMENTS ARE COMPLIANT WITH THE ADA ACCESSIBILITY GUIDELINES (ADAAG) AND UNIFORM FEDERAL ACCESSIBILITY STANDARDS(UFAS), WHERE APPLICABLE

# 100% CONSTRUCTION DOCUMENTS PERMIT SUBMITTAL INDEX OF DRAWINGS


COVER

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D-1.10 PINES #6 RESTROOM DEMOLITION SITE PLAN

CIVIL
C1 PAVING, GRADING AND DRAINAGE PLAN

LANDSCAPING
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A-1.01 CPTED PLAN
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CITY OF POMPANO BEACH GOLF COURSE SHELTER & RESTROOM RENOVATIONS

pompano beach


ARCHITECT OF RECORD
SILVA ARCHITECTS
135 SAN LORENZO AVE SUITE 880
CORAL GABLES, FL 33146
305-444-8262 (t) 305-444-5920 (fax)

CIVIL ENGINEER
MUNSON DESIGN AND CONSULTING, INC.
8910 NW 21 COURT
CORAL SPRINGS, FL 33071
954-340-5291

STRUCTURAL ENGINEER
DDA ENGINEERS
4930 SW 74 STREET
MIAMI, FL 33155
305-666-0711

MECHANICAL ENGINEER
FRAGA ENGINEERS
135 SAN LORENZO AVE SUITE 890
CORAL GABLES, FL 33146
305-444-8210


| NO. | DESCRIPTION: | DATE: | NO. | DESCRIPTION: | DATE: |
|---|---|---|---|---|---|
| | | | | | |

SEAL & SIGNATURE:

ROLANDO SILVA FL AR-7202

KEY PLAN:

DRAWING TITLE:
INDEX & LEGEND

DRAWN: | CHECKED:

DATE: DEC. 1, 2014

SUBMITTAL:
PERMIT SUBMITTAL

SHEET NUMBER:
A-0.00

# CITY OF POMPANO BEACH
# GOLF COURSE SHELTER & RESTROOM RENOVATIONS

pompano beach

CITY OFFICIALS

Lamar Fisher
Mayor

George Brummer
Vice Mayor, Commissioner District 5

Barry Dockswell
Commissioner District 1

Charlotte Burrie
Commissioner District 2

Rex Hardin
Commissioner District 3

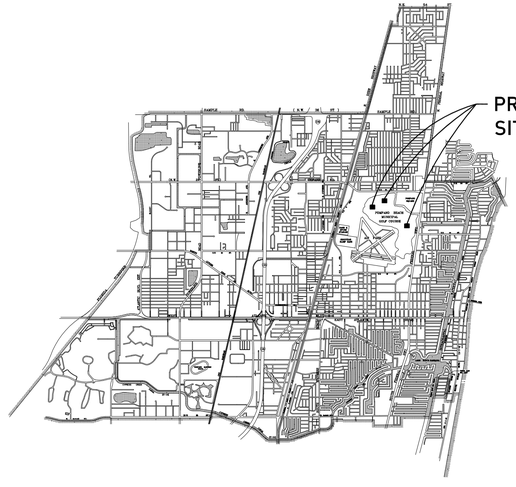
Woodrow J. Poitier
Commissioner District 4

Dennis Beach
City Manager

Alessandra Delfico, PE
City Engineer

Tammy Good, PMP
Project Manager

Chris Schlageter, CGC
Construction Manager




PROJECT LOCATION MAP
1"=5,000'

## 100% CONSTRUCTION DOCUMENTS
## PERMIT SET

DECEMBER 10, 2014

ARCHITECT OF RECORD
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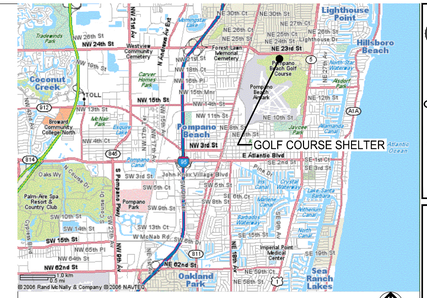
MIAMI, FL 33155
305-666-0711

M/E/P ENGINEERS
FRAGA ENGINEERS
135 SAN LORENZO AVE SUITE 890
CORAL GABLES, FL 33146
305-444-8210

NORTH
SCALE 1" = 20'-0"
SECTION 36, TOWNSHIP 48S, RANGE 42E




LOCATION SKETCH NTS

NORTH

## LEGEND:

EXISTING TREE

16.43 EXISTING ELEVATION

## SURVEYOR'S NOTES:

ELEVATIONS SHOWN HEREON ARE BASED ON G.P.S. COLLECTION

ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

THE CONVERSION BETWEEN NGVD TO NAVD IN THIS AREA IS (−)1.52

## SITE DATA:

FACILITY: CITY OF POMPANO BEACH MUNICIPAL GOLF COURSE

CITY: POMPANO BEACH

ZONING: COMMUNITY FACILITIES (CF)

BROWARD COUNTY 100 YEAR FLOOD ELEVATION=11.50 NAVD= 13.00 NGVD

SEASONAL HIGH WATER TABLE ELEVATION=0.48 NAVD= 2.00 NGVD

F.E.M.A.: THIS PROPERTY LIES IN FLOOD ZONE X, OUTSIDE OF THE 500 YEAR FLOOD PLANE

WATER SYSTEM AUTHORITY: CITY OF POMPANO BEACH

WASTEWATER SYSTEM AUTHORITY: CITY OF POMPANO BEACH

MDC
MUNSON DESIGN AND CONSULTING, INC.
8910 N.W. 21 COURT
CORAL SPRINGS, FL. 33071
PHONE: 954-340-5291
FAX: 954-340-9479
AUTHORIZATION No. 9327

SPECIFIC PURPOSE SURVEY

REVISIONS:

# CITY OF POMPANO BEACH
# GOLF COURSE SHELTER REPLACEMENT

PROJECT ADDRESS:
1670 NE 5th AVENUE
POMPNO BEACH, FL. 33060

Phase:
**AAC SUBMITTAL DOCUMENTS**

SIGNATURE AND SEAL

| | |
|---|---|
| Scale: 1"=20' | |
| Job No. 2013-2100 | Sheet No. S1 |
| Date 02/24/2014 | |
| Drawn by DG | Plot Date 10/22/2014 |
| Appr. by SM | 1 of 1 |

# CITY OF POMPANO BEACH GOLF COURSE SHELTER & RESTROOM RENOVATIONS

pompano beach

ARCHITECT OF RECORD
SILVA ARCHITECTS
135 SAN LORENZO AVE SUITE 880
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954-340-5291

STRUCTURAL ENGINEER
DDA ENGINEERS
4930 SW 74 STREET
MIAMI, FL 33155
305-666-0711

MECHANICAL ENGINEER
FRAGA ENGINEERS
135 SAN LORENZO AVE SUITE 890
CORAL GABLES, FL 33146
305-444-8210

| NO. | DESCRIPTION: | DATE: | NO. | DESCRIPTION: | DATE: |
|---|---|---|---|---|---|
| | | | | | |

SEAL & SIGNATURE:

ROLANDO SILVA FL AR-7202

KEY PLAN:

DRAWING TITLE:

## HALFWAY HOUSE SITE DEMO PLAN

| DRAWN: | CHECKED: |
|---|---|
| DATE: | DEC. 1, 2014 |

SUBMITTAL:

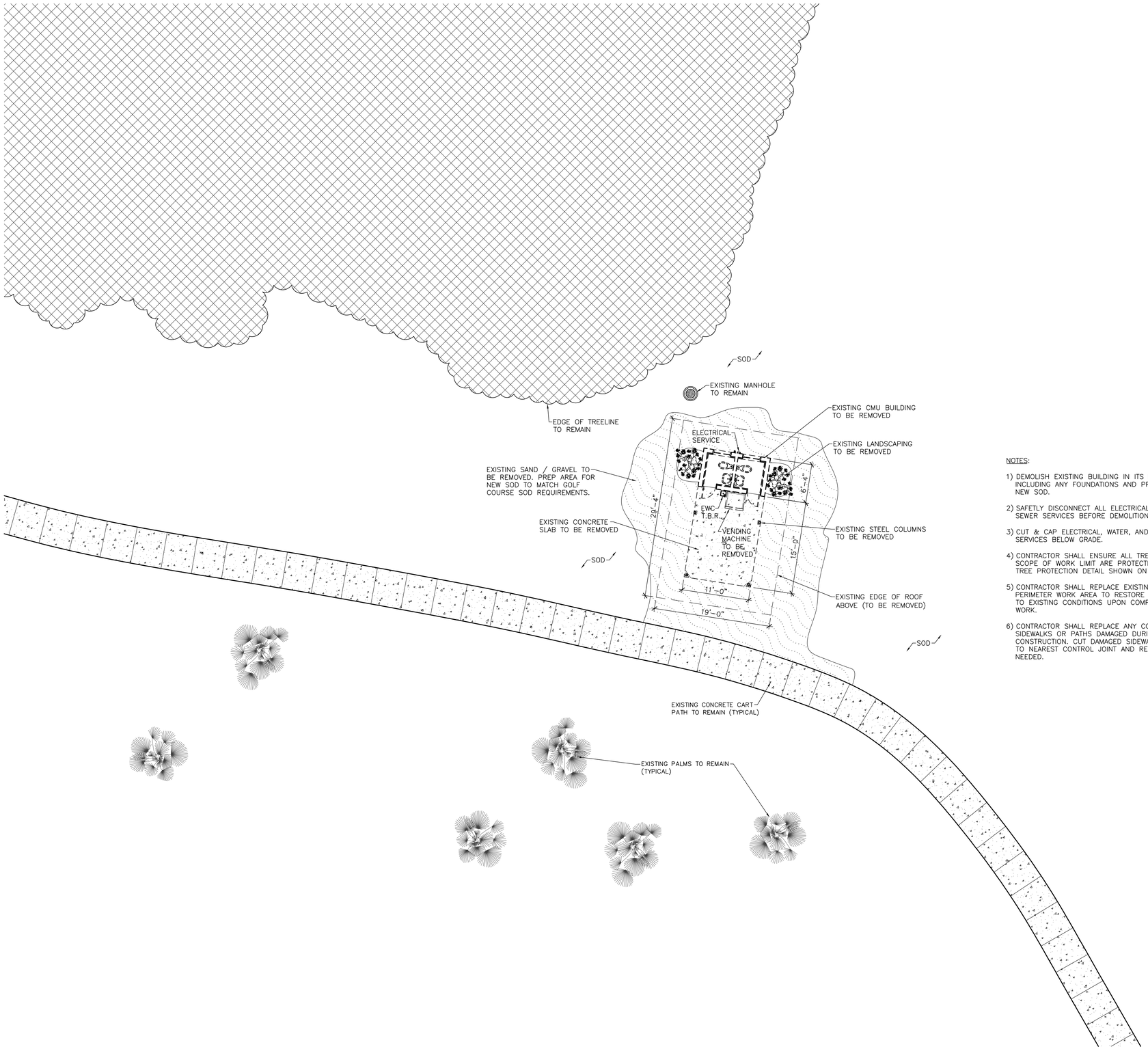
PERMIT SUBMITTAL

## SITE DEMOLITION PLAN

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

SHEET NUMBER:

D-1.00




NOTES:

1) DEMOLISH EXISTING BUILDING IN ITS ENTIRETY INCLUDING ANY FOUNDATIONS AND PREP AREA FOR NEW SOD.

2) SAFETLY DISCONNECT ALL ELECTRICAL, WATER, AND SEWER SERVICES BEFORE DEMOLITION.

3) CUT & CAP ELECTRICAL, WATER, AND SEWER SERVICES BELOW GRADE.

4) CONTRACTOR SHALL ENSURE ALL TREES WITHIN THE SCOPE OF WORK LIMIT ARE PROTECTED AS PER TREE PROTECTION DETAIL SHOWN ON SHEET A-100.

5) CONTRACTOR SHALL REPLACE EXISTING SOD AT PERIMETER WORK AREA TO RESTORE LANDSCAPING TO EXISTING CONDITIONS UPON COMPLETION OF THE WORK.

6) CONTRACTOR SHALL REPLACE ANY CONCRETE SIDEWALKS OR PATHS DAMAGED DURING CONSTRUCTION. CUT DAMAGED SIDEWALK SECTIONS TO NEAREST CONTROL JOINT AND REPLACE AS NEEDED.

## SITE DEMOLITION PLAN
SCALE: 1/8"=1'-0"

# CITY OF POMPANO BEACH GOLF COURSE SHELTER & RESTROOM RENOVATIONS

pompano beach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305-444-8210


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|---|---|---|---|---|---|
| | | | | | |

SEAL & SIGNATURE:

ROLANDO SILVA FL AR-7202

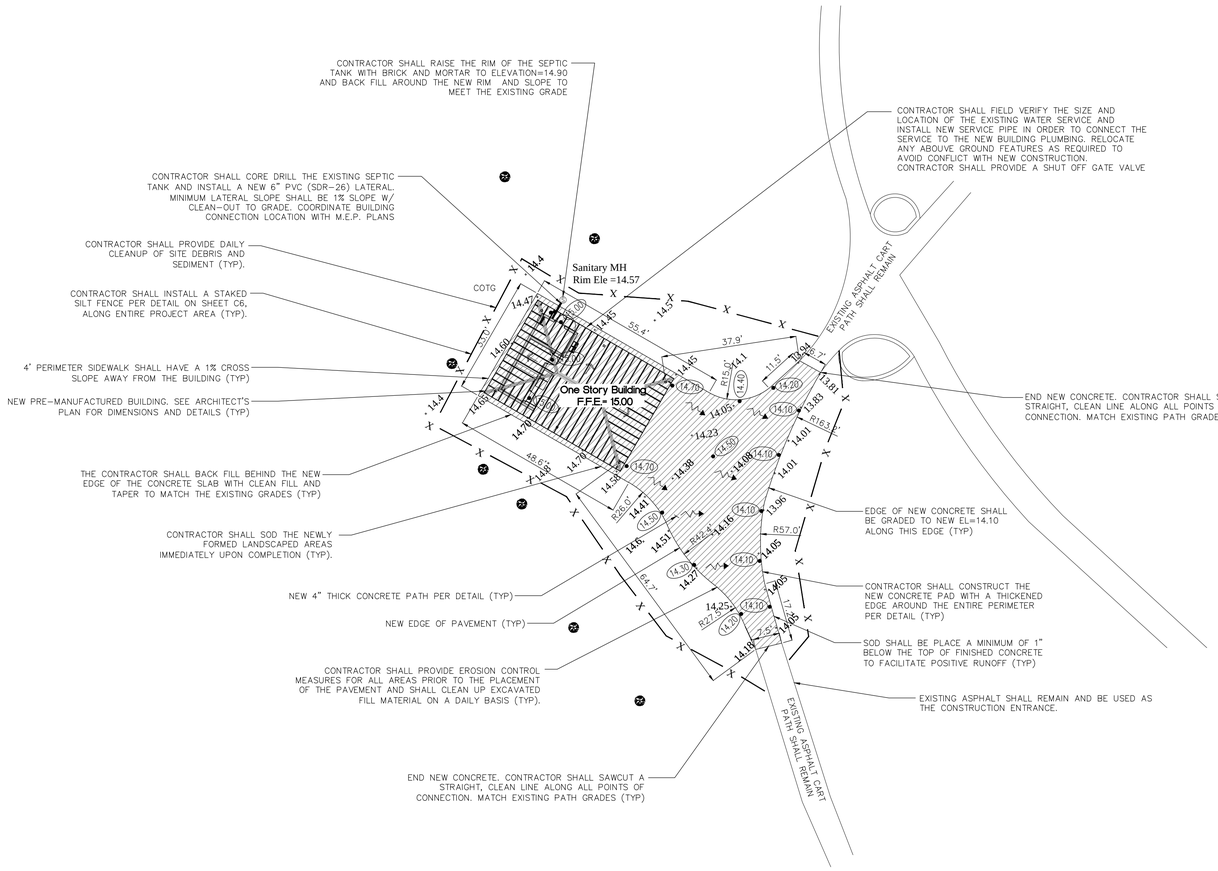
KEY PLAN:

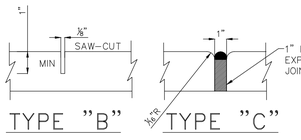
DRAWING TITLE:
**PINES #6 SITE DEMO PLAN**

| DRAWN: | CHECKED: |
|---|---|
| DATE: | DEC. 1, 2014 |

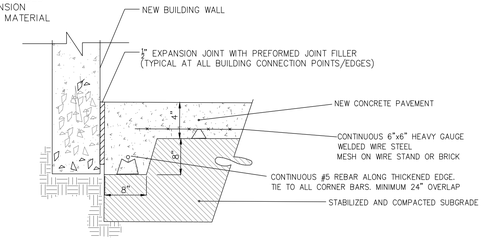
SUBMITTAL:
**PERMIT SUBMITTAL**

SHEET NUMBER:
**D-1.10**




| TABLE OF SIDEWALK JOINTS | |
|---|---|
| TYPE | LOCATION |
| "A" | P.C. AND P.T. CURVES. JUNCTION OF EXISTING AND NEW SIDEWALKS. |
| "B" | 5'-0" CENTER TO CENTER ON SIDEWALKS.<br>15' CENTER TO CENTER MAX. FOR CONCRETE PAVEMENT UNLESS OTHERWISE INDICATED. |
| "C" | WHERE SIDEWALK OR CONCRETE ABUTS CONCRETE CURBS, DRIVEWAYS AND OTHER FIXED OBJECTS |




CONCRETE PAVEMENT: 4.0" CONCRETE PAVEMENT, 3,500 PSI MINIMUM W/ MONOLITHIC FOOTERS AT CONNECTION POINTS/EDGES.

NEW SUBBASE : 12" SUBBASE COMPACTED TO 98% OF MAXIMUM DENSITY (AASHTO T-180). MINIMUM LBR=40

PROJECT NOTES:

ALL CONCRETE SHALL BE TYPE 1, 3,500psi AT 28 DAYS

NO WIRE MESH

CONCRETE SHALL HAVE A LIGHT BROOM FINISH

NO EXPANSION JOINT MATERIAL

USE TYPE 'B' ROUNDED CORNER TROWEL

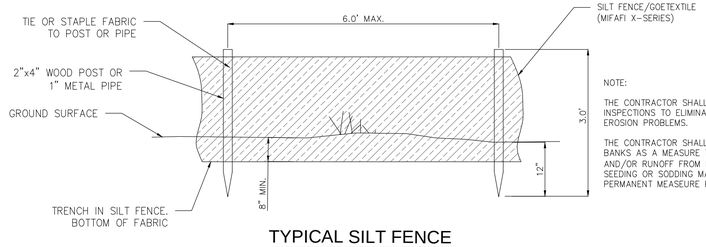
SUBGRADE SHALL BE COMPACTED TO 98% OF AASHTO T-180

ALL CONCRETE SHALL BE A MINIMUM OF 4" THICK

THERE SHALL BE A THICKENED EDGE ALONG THE ENTIRE PERIMETER AND AT ALL CONNECTION POINTS

## CONCRETE SIDEWALK DETAIL

N.T.S.




NOTE:

THE CONTRACTOR SHALL PERFORM DAILY INSPECTIONS TO ELIMINATE EXISTING OR POTENTIAL EROSION PROBLEMS.

THE CONTRACTOR SHALL SEED OR SOD THE CANAL BANKS AS A MEASURE TO PREVENT EROSION AND/OR RUNOFF FROM ENTERING CANAL. THIS SEEDING OR SODDING MAY BE A TEMPORARY OR PERMANENT MEASEURE PER THE LANDSCAPE PLANS.

## TYPICAL SILT FENCE

N.T.S.

LOCATION SKETCH NTS

NORTH

## LEGEND:

- EXISTING TREE
- × 16.43 EXISTING ELEVATION
- •(0.00) PROPOSED ELEVATION
- NEW 4" CONCRETE SIDEWALK

## SURVEYOR'S NOTES:

ELEVATIONS SHOWN HEREON ARE BASED ON G.P.S. COLLECTION

ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

THE CONVERSION BETWEEN NGVD TO NAVD IN THIS AREA IS (-)1.52

## SITE DATA:

FACILITY: CITY OF POMPANO BEACH MUNICIPAL GOLF COURSE

CITY: POMPANO BEACH

ZONING: COMMUNITY FACILITIES (CF)

BROWARD COUNTY 100 YEAR FLOOD ELEVATION=11.50 NAVD= 13.00 NGVD

SEASONAL HIGH WATER TABLE ELEVATION=0.48 NAVD= 2.00 NGVD

F.E.M.A.: THIS PROPERTY LIES IN FLOOD ZONE X, OUTSIDE OF THE 500 YEAR FLOOD PLANE

WATER SYSTEM AUTHORITY: CITY OF POMPANO BEACH

WASTEWATER SYSTEM AUTHORITY: CITY OF POMPANO BEACH

## PAVING, GRADING AND DRAINAGE NOTES:

ALL CONCRETE SHALL BE TYPE 1, 3,500psi AT 28 DAYS WITH LIGHT BROOM FINISH

SUGBRADE SHALL BE COMPACTED TO 98% OF AASHTO T-180

ALL CONCRETE SHALL BE A MINIMUM OF 4" THICK

CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS, ETC. IN ORDER TO FURNISH A COMPLETE WORKING SYSTEM BASED ON THE LAYOUT SHOWN ON THESE PLANS.

LANDSCAPED AREAS SHALL BE GRADED TO DRAIN OVER THE NEW CURBING OR SIDEWALKS. FIELD ADJUST GRADING AS REQUIRED.

CONTRACTOR SHALL PROVIDE A MAXIMUM OF 1% CROSS SLOPE FOR ALL SIDEWALKS..

ALL INSPECTIONS AND CERTIFICATION REQUIREMENTS SHALL FOLLOW THE CITY'S ENGINEERING & UTILITY DEPARTMENT'S AND MDC'S MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS.

NEW AND EXISTING DRAINAGE MANHOLES, VALVE BOXES AND CLEAN OUTS, ETC. ARE TO BE ADJUSTED TO BE FLUSH WITH FINISHED GRADE.

ALL SUBGRADE AND LIMEROCK BASE SHALL BE COMPACTED TO 98% OF AASHTO T-180

THE CONTRACTOR SHALL REMOVE ALL MUCK AND/OR ORGANIC MATERIAL FROM THE LIMITS OF THE ASPHALT WORK.

## PROJECT NOTES:

BASE FLOOD ELEVATION (BFE) IS N/A. THIS PROPERTY LIES IN FLOOD ZONE X, OUTSIDE OF THE 500 YEAR FLOOD PLANE

THE CROWN OF ROAD ELEVATION IS 13.00 NAVD. THE FINISHED FLOOR ELEVATION IS SET HIGHER THAN 6" ABOVE THE CROWN OF COPANS ROAD AT ELEVATION =15.00 NAVD

MDC
MUNSON DESIGN AND CONSULTING, INC.
8910 N.W. 21 COURT
CORAL SPRINGS, FL. 33071
PHONE: 954-340-5291
FAX: 954-340-9479
AUTHORIZATION No. 9327

# PAVING, GRADING AND DRAINAGE PLAN
# STORMWATER POLLUTION PREVENTION PLAN

REVISIONS:

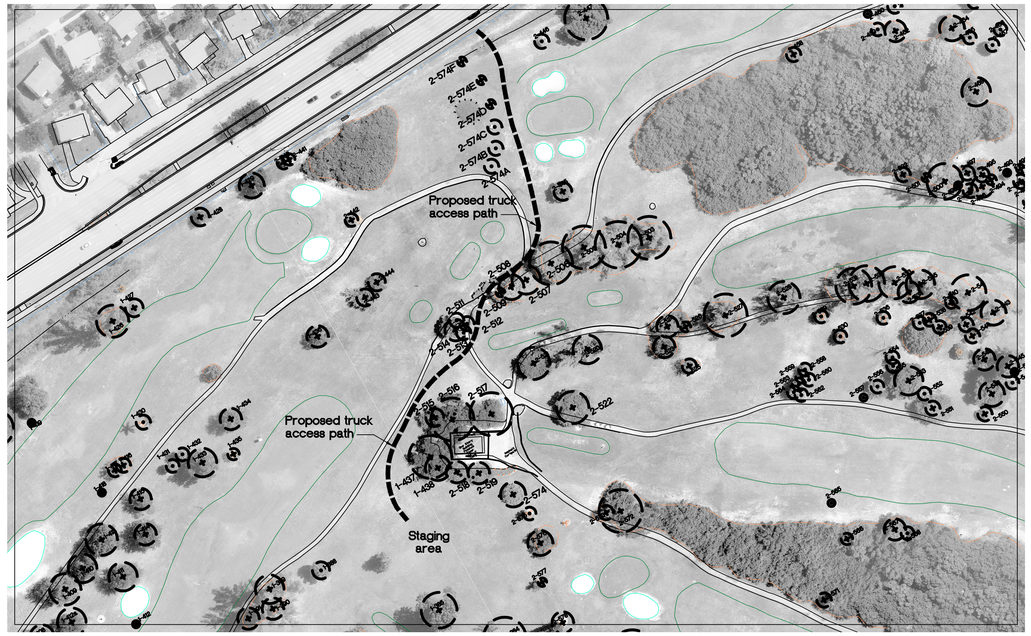
# CITY OF POMPANO BEACH
# GOLF COURSE SHELTER REPLACEMENT

PROJECT ADDRESS:
1670 NE 5th AVENUE
POMPNO BEACH, FL. 33060

Phase:
**AAC SUBMITTAL DOCUMENTS**

SIGNATURE AND SEAL

| | |
|---|---|
| Scale: 1"=20' | |
| Job No. 2013-2100 | Sheet No. C1 |
| Date 02/24/2014 | |
| Drawn by SM | Plot Date 10/22/2014 |
| Appr. by TG | 1 of 1 |




NORTH

# EXISTING TREE VALUATION LIST

| | CODE | NAME | BOTANICAL | HEIGHT | WIDTH | DBH | CONDITION | APPRAISAL | OBSERVATIONS |
|---|---|---|---|---|---|---|---|---|---|
| 1- | 437 | Strangler fig | Ficus aurea | 50 | 60 | 72 | 50 | $14,800.00 | |
| 1- | 438 | Gumbo Limbo | Bursera simaruba | 20 | 35 | 18 | 55 | $3,530.00 | |
| | | | | | | | | | |
| 2- | 506 | Black Olive | Bucida buceras | 50 | 60 | 24 | 45 | $2,680.00 | |
| 2- | 507 | Black Olive | Bucida buceras | 35 | 40 | 18 | 30 | $1,000.00 | |
| 2- | 508 | Black Olive | Bucida buceras | 35 | 35 | 12 | 35 | $420.00 | |
| 2- | 509 | Pink Tabebuia | Tabebuia heterophylla | 18 | 12 | 12 | 50 | $790.00 | |
| | | | | | | | | | |
| 2- | 511 | Queen Palm | Syagrus romanzoffiana | 30 | | 12 | 70 | $315.00 | |
| 2- | 512 | Queen Palm | Syagrus romanzoffiana | 25 | | 10 | 70 | $260.00 | |
| 2- | 513 | Queen Palm | Syagrus romanzoffiana | 25 | | 10 | 70 | $260.00 | |
| 2- | 514 | Schefflera | Schefflera actinophylla | 30 | 30 | 72 | | $0.00 | Prohibited Species |
| 2- | 515 | Strangler Fig | Ficus aurea | 20 | 25 | 20 | 45 | $2,650.00 | |
| 2- | 516 | Banyan Tree | Ficus bengaliensis | 50 | 60 | 50 | 40 | $6,500.00 | |
| 2- | 517 | Live Oak | Quercus virginiana | 22 | 8 | 4 | 40 | $550.00 | |
| 2- | 518 | Gumbo Limbo | Bursera simaruba | 20 | 30 | 12 | 60 | $1,625.00 | |
| 2- | 519 | Gumbo Limbo | Bursera simaruba | 20 | 30 | 20 | 55 | $4,360.00 | |
| | | | | | | | | | |
| 2- | 574 | Weeping Fig | Ficus benjamina | 25 | 30 | 14 | 55 | $870.00 | |
| 2- | 574a | Royal Palm | Roystonea regia | 26 | 12 | | 75 | $600.00 | |
| 2- | 574b | Royal Palm | Roystonea regia | 26 | 12 | | 75 | $600.00 | |
| 2- | 574c | Royal Palm | Roystonea regia | 26 | 12 | | 75 | $600.00 | |
| 2- | 574d | Live Oak | Quercus virginiana | 12 | 6 | 2 | 65 | $300.00 | |
| 2- | 574e | Live Oak | Quercus virginiana | 12 | 6 | 2 | 65 | $300.00 | |
| 2- | 574f | Live Oak | Quercus virginiana | 12 | 6 | 2 | 70 | $300.00 | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | * I certify that all the statements of fact in this appraisal are true, | | | | | | | |
| | | complete, and correct to the best of my knowledge and belief, and that they are made in good faith. | | | | | | | |
| | | Jeremy T. Chancey, FL-0762A, ISA Certified Arborist | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

project:

**pompano golf course shelter**

pompano beach
florida

**AAC SUBMITTAL 10-22-14**

**dave bodker**
landscape architecture/planning inc.

601 n. congress ave., suite 105-a
delray beach, florida 33445
561-276-6311

#LA0000999

sheet title:

**tree inventory/ valuation**

project number: 914
date: 4-8-14
scale: 1" = 100'
drawn by: jae

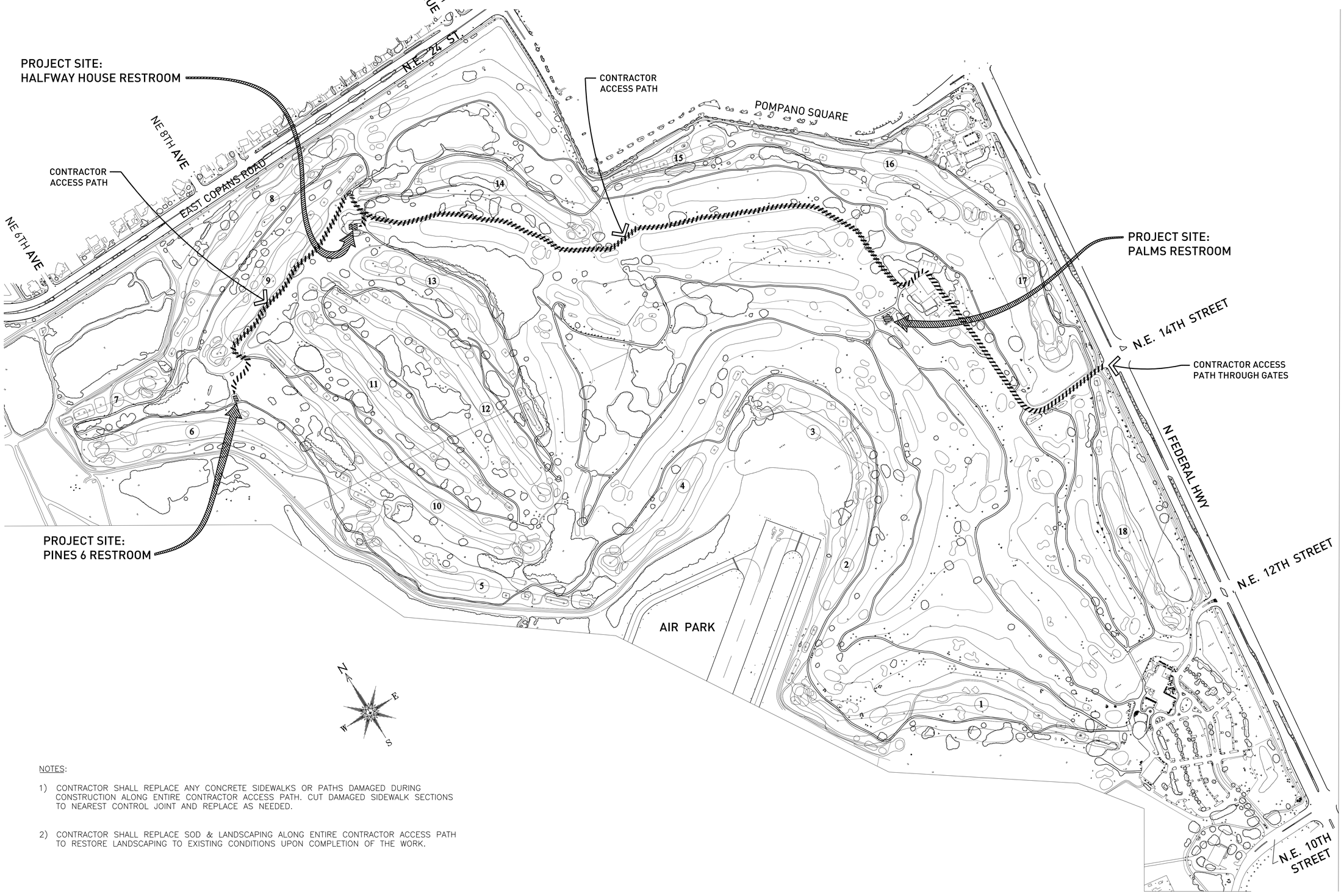
revisions:

△
△
△
△
△
△

sheet:

**T-1**

1 of 1 sheets




NOTES:

1) CONTRACTOR SHALL REPLACE ANY CONCRETE SIDEWALKS OR PATHS DAMAGED DURING CONSTRUCTION ALONG ENTIRE CONTRACTOR ACCESS PATH. CUT DAMAGED SIDEWALK SECTIONS TO NEAREST CONTROL JOINT AND REPLACE AS NEEDED.

2) CONTRACTOR SHALL REPLACE SOD & LANDSCAPING ALONG ENTIRE CONTRACTOR ACCESS PATH TO RESTORE LANDSCAPING TO EXISTING CONDITIONS UPON COMPLETION OF THE WORK.

0' 1/2" 1" 1 1/2" 2"
0' 100'-0" 200'-0" 300'-0" 400'-0"

## SITE ACCESS / LOCATION PLAN
SCALE: 1"=200'-0"

# CITY OF POMPANO BEACH GOLF COURSE SHELTER & RESTROOM RENOVATIONS

pompano beach


ARCHITECT OF RECORD
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CORAL SPRINGS, FL 33071
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STRUCTURAL ENGINEER
**DDA ENGINEERS**
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305-666-0711

MECHANICAL ENGINEER
**FRAGA ENGINEERS**
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305-444-8210


| NO. | DESCRIPTION: | DATE: | NO. | DESCRIPTION: | DATE: |
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SEAL & SIGNATURE:

ROLANDO SILVA FL AR-7202

KEY PLAN:

DRAWING TITLE:
**SITE ACCESS / LOCATION PLAN**

| DRAWN: | CHECKED: |
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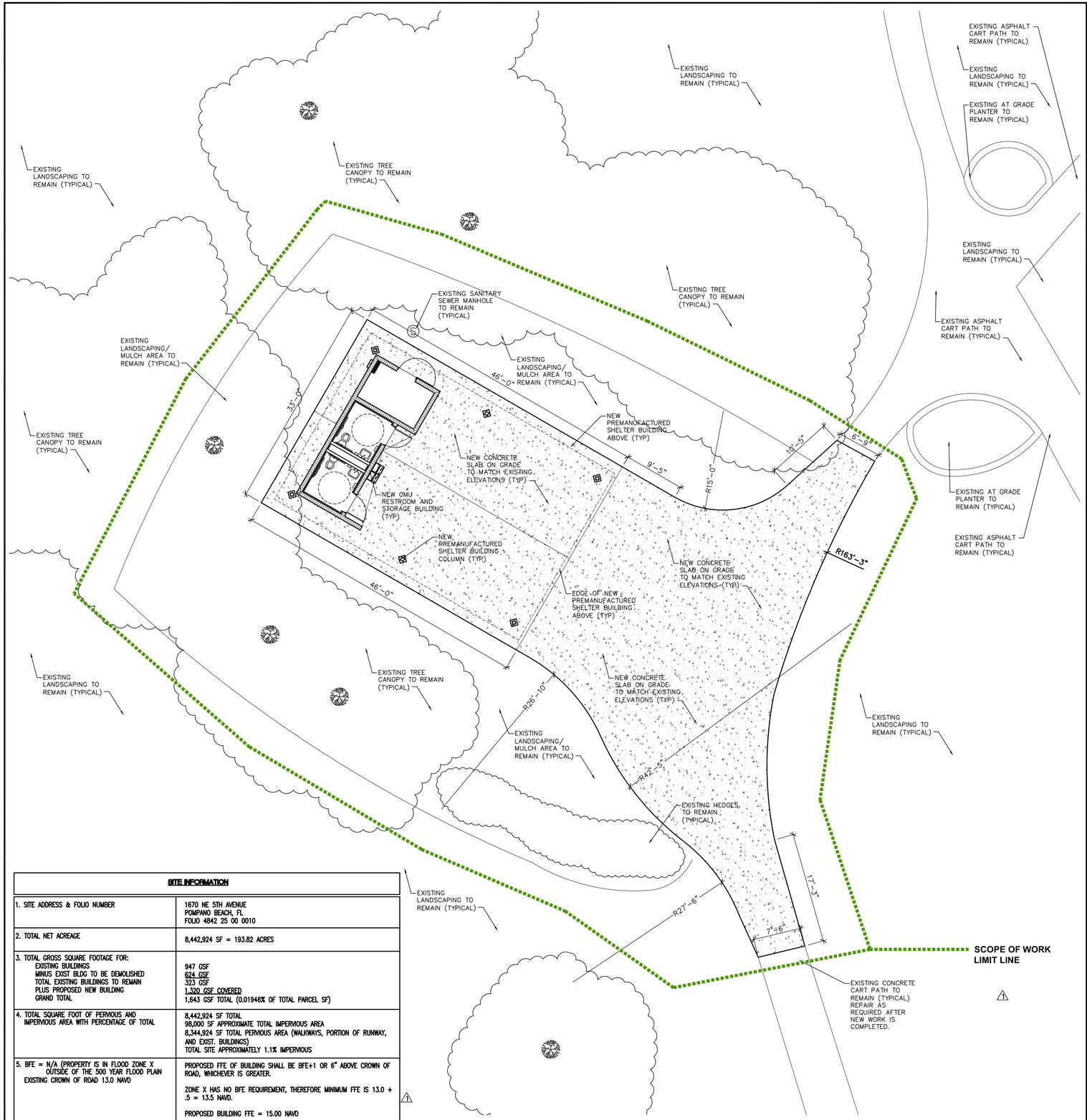
| DATE: | DEC. 1, 2014 |

SUBMITTAL:
**PERMIT SUBMITTAL**

SHEET NUMBER:
**A-0.01**




| SITE INFORMATION | |
|---|---|
| 1. SITE ADDRESS & FOLIO NUMBER | 1670 NE 5TH AVENUE<br>POMPANO BEACH, FL<br>FOLIO 4842 25 00 0010 |
| 2. TOTAL NET ACREAGE | 8,442,924 SF = 193.82 ACRES |
| 3. TOTAL GROSS SQUARE FOOTAGE FOR:<br>EXISTING BUILDINGS<br>MINUS EXIST BLDG TO BE DEMOLISHED<br>TOTAL EXISTING BUILDINGS TO REMAIN<br>PLUS PROPOSED NEW BUILDING<br>GRAND TOTAL | <br>947 GSF<br>624 GSF<br>323 GSF<br>1,320 GSF COVERED<br>1,643 GSF TOTAL (0.01946% OF TOTAL PARCEL SF) |
| 4. TOTAL SQUARE FOOT OF PERVIOUS AND IMPERVIOUS AREA WITH PERCENTAGE OF TOTAL | 8,442,924 SF TOTAL<br>98,000 SF APPROXIMATE TOTAL IMPERVIOUS AREA<br>8,344,924 SF TOTAL PERVIOUS AREA (WALKWAYS, PORTION OF RUNWAY, AND EXIST. BUILDINGS)<br>TOTAL SITE APPROXIMATELY 1.1% IMPERVIOUS |
| 5. BFE = N/A (PROPERTY IS IN FLOOD ZONE X OUTSIDE OF THE 500 YEAR FLOOD PLAIN<br>EXISTING CROWN OF ROAD 13.0 NAVD | PROPOSED FFE OF BUILDING SHALL BE BFE+1 OR 6" ABOVE CROWN OF ROAD, WHICHEVER IS GREATER.<br><br>ZONE X HAS NO BFE REQUIREMENT, THEREFORE MINIMUM FFE IS 13.0 + .5 = 13.5 NAVD.<br><br>PROPOSED BUILDING FFE = 15.00 NAVD |

## HALFWAY HOUSE PROPOSED SITE PLAN

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

| LANDSCAPING GENERAL NOTES |
|---|
| 1. CONTRACTOR SHALL ENSURE ALL TREES WITHIN THE SCOPE OF WORK LIMIT ARE PROTECTED AS PER DETAIL SHOWN ON THIS SHEET. |
| 2. CONTRACTOR SHALL REPLACE EXISTING SOD AT PERIMETER WORK AREA TO RESTORE LANDSCAPING TO EXISTING CONDITIONS UPON COMPLETION OF THE WORK. |

**LANDSCAPING NOTES**

1. TREE AND PLANT PROTECTION
   Section Includes: Protection of existing trees and plants from damage because of Contractors operations including, but not limited to:
   1. Protection of existing natural woodlands.
   2. Marking of clearing limits.
   3. Vegetation protective signage.
   4. Tree protection fencing.
   5. Boxing of tree trunks.
   6. Root pruning, construction pruning, and root protection.

2. QUALITY ASSURANCE
   A. Comply with the most stringent applicable requirements of the following standards.
      1. American National Standards Institute (ANSI) Z133.1 - Safety Requirements for Pruning, Trimming, Repairing, Maintaining and Removing Trees, and for Cutting Brush.
      2. International Society of Arboriculture (ISA) - Guide for Establishing Values of Trees and Other Plants.
      3. National Arborist Association (NAA) - Ref.1, Pruning Standards for Shade Trees.
      4. International Society of Arboriculture (ISA) - Construction Management Guidelines.

   B. Damaged Trees/palms:
      1. Trees scheduled to remain and are damaged during construction shall be replaced per canopy equivalency at no expense to the owner.

   C. If any shrubs designated to be saved are damaged and replacement is required, a number and diameter of shrubs of the same species and variety, as determined by the A/E shall be furnished and planted by the Contractor. The total inch diameter of the replacement shrubs shall equal the diameter of the shrub to be replaced.

3. PRODUCTS / COMPONENTS - Root Pruning:
   1. Peat moss and mulch materials shall be shredded eucalyptus bark free of weed retardant.
   2. Liquid fertilizer applied to root pruned and construction pruned trees shall be Peters M77 Sequestered-Cleated Soluble Fertilizer by W.R. Grace and Co., Cambridge, MA, or accepted equivalent.
   3. Dormant oil spray shall be a dormant miscible spray, Volck Oil, by Ortho or accepted equivalent.

4. EXECUTION / INSTALLATION
   A. Fencing:
      1. Before start of demolition work and clearing and grubbing operations, tree protection fencing shall be installed at all trees designated to be protected. Fencing shall be installed a minimum of 15 feet beyond the drip line of trees to be protected, unless otherwise accepted by the A/E.

   B. Root Pruning:
      1. Where construction will occur close to existing trees designated to remain, roots shall be pruned. Proximity shall be as determined in the field by the A/E.
      2. Root pruning is the physical cutting of tree roots to minimize root damage and promote healing. Suitable means for root pruning include trenching, vibrating plow, or stump grinder. Any method capable of tearing roots or disturbing the soil beyond the grading limit is not allowed.
      3. Root prune trees as noted to a depth of 24 inches by trencher, backhoe, or other approved means.
      4. Backfill root pruning trench with existing soil mixed with peat moss or well-rotted sawdust to a mixture of approximately 75 percent soil and 25 percent humus. Tamp lightly to set soil.
      5. Apply non-cypress mulch to a depth of 4 to 6 inches at minimum dripline radius around tree to reduce compaction and increase moisture retention. Mulch depth shall be feathered to grade at base of trunk.

   C. Construction Pruning and Root Protection:
      1. To compensate for root zone damage by cut or fill work, prune top of tree to approximate percent of damaged root zone area.
      2. Construction pruning shall consist of pruning the tree crown to compensate for root zone damage due to construction operations. Construction pruning shall include a fertilization/insecticide program.
      3. Construction pruning shall comply with NAA Ref.1 for Class IV - Crown Reduction Pruning and ANSI Z133.1.
      4. For those trees remaining within construction zone to be protected, apply mulch to a depth of 6 inches within dripline radius around tree to reduce compaction and increase moisture retention. Mulch depth shall be feathered to grade at base of trunk. Remove protection mulch after completion of work as specified.

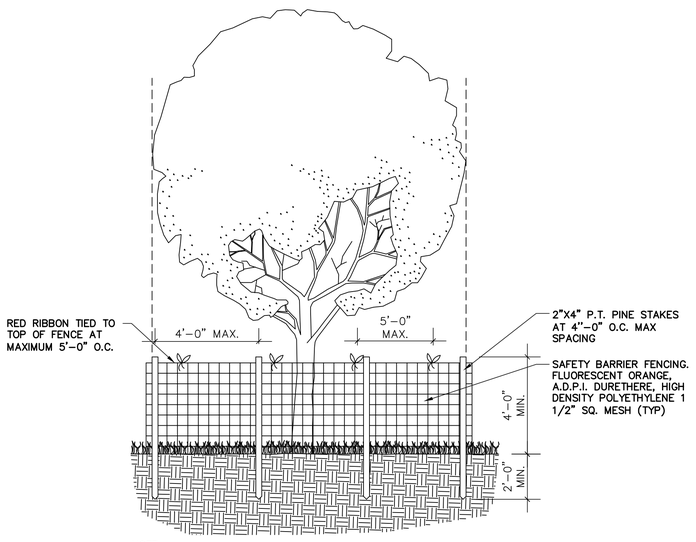
   D. Fertilization and Insect Spraying:
      1. Treat root pruned and construction pruned trees with liquid fertilizer, dormant oil spray, and insecticide.
         a. Liquid fertilizer shall be applied at a rate recommended by the manufacturer and as required by NAA Ref.2.
         b. Apply dormant oil spray, at a rate recommended by the manufacturer, in early spring before buds begin to swell.
         c. Apply insecticide spray twice to root pruned trees following application of dormant oil spray. Spray insecticide at rates recommended by spray manufacturer at intervals appropriate for effective Insect control.

   E. Clearing Within Protection Areas:
      1. Selective clearing within tree protection areas shall only be performed when and as directed by A/E.

   F. Removal of Protection:
      Except as otherwise indicated or requested by A/E, temporary protection devices and facilities installed during course of the work shall be removed only after all work that may injure or damage trees and plants is completed.

## NOTES

NTS




NOTE:
BARRIER TO FORM CONTINUOUS FROM AROUND THE TREE OR GROUP OF TREES. SEE SITE PLAN & SURVEY FOR LOCATION OF TREES TO REMAIN.

## TREE PROTECTION DETAIL

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

# CITY OF POMPANO BEACH GOLF COURSE SHELTER & RESTROOM RENOVATIONS

pompano beach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| NO. | DESCRIPTION: | DATE: | NO. | DESCRIPTION: | DATE: |
|---|---|---|---|---|---|
| 1 | PRE-DRC MTG | 8-25-14 | | | |

SEAL & SIGNATURE:

ROLANDO SILVA FL AR-7202

KEY PLAN:

DRAWING TITLE:
**SITE PLAN**

DRAWN: | CHECKED:

DATE: DEC. 1, 2014

SUBMITTAL:
**PERMIT SUBMITTAL**

SHEET NUMBER:
**A-1.00**

**CRIME PREVENTION THROUGH ENVIRONMENTAL DESIGN (CPTED)**
**DESIGN STRATEGIES**

| |
|---|
| 1. DESIGN STRATEGIES UTILIZED FOR CPTED PRINCIPLE #1 – NATURAL SURVEILLANCE |
| BUILDING ORIENTED TO PROVIDE FOR MAXIMUM SURVEILLANCE OF ALL AREAS.<br>RESTROOM ENTRIES VISIBLE TO GOLF COURSE USERS. |
| 2. DESIGN STRATEGIES UTILIZED FOR CPTED PRINCIPLE #2 – NATURAL ACCESS CONTROL |
| NUMBER OF ENTRY/EXITS RESTRICTED. SINGLE PUBLIC ENTRANCE FOR RESTROOMS.<br>USE OF EXISTING LANDSCAPE (LOW HEDGES, GROUNDCOVER, ETC) TO IDENTIFY POINT OF ENTRANCE AND RESTRICTED AREAS.<br>PUBLIC PATHS HAVE DIRECT ROUTES TO BUILDING ENTRANCES. |
| 3. DESIGN STRATEGIES UTILIZED FOR CPTED PRINCIPLE #3 – TERRITORIAL REINFORCEMENT |
| USE OF EXISTING SHRUBS/HEDGES TO DISCOURAGE CUTTING THROUGH LANDSCAPED AREAS AND TRAMPLING VEGETATION.<br>USE OF APPROPRIATE SIGNAGE.<br>USE OF PHYSICAL AND SYMBOLIC BARRIERS SUCH AS PAVING MATERIALS TO PROVIDE SITE WAYFINDING FROM PATH TO ENTRANCE. |
| 4. DESIGN STRATEGIES UTILIZED FOR CPTED PRINCIPLE #4 – MAINTENANCE |
| WORK CLOSELY WITH CITY AND GOLF COURSE STAFF TO DEVELOP A FORMAL CPTED BASED MAINTENANCE PLAN. |
| 5. BSO NO TRESPASS SIGNAGE SHALL BE PROVIDED AT SHELTER BUILDING. |
| 6. SHELTER BUILDING IS LOCATED INSIDE THE EXISTING GOLF COURSE, WHICH HAS ITS OWN SECURITY AND ENTRANCE MONITORING. |
| 7. ALL DOORS AT SHELTER SHALL BE PROVIDED WITH LOCKING MECHANISM FOR SECURITY. |

1

## PROPOSED CPTED PLAN
SCALE: 1/8"=1'-0"

# CITY OF POMPANO BEACH GOLF COURSE SHELTER & RESTROOM RENOVATIONS

pompano beach


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| 1 | PRE-DRC MTG | 8-25-14 | | | |

SEAL & SIGNATURE:

ROLANDO SILVA FL AR-7202

KEY PLAN:

DRAWING TITLE:
CPTED PLAN

DRAWN: | CHECKED:

DATE: DEC. 1, 2014

SUBMITTAL:
PERMIT SUBMITTAL

SHEET NUMBER:
A-1.01

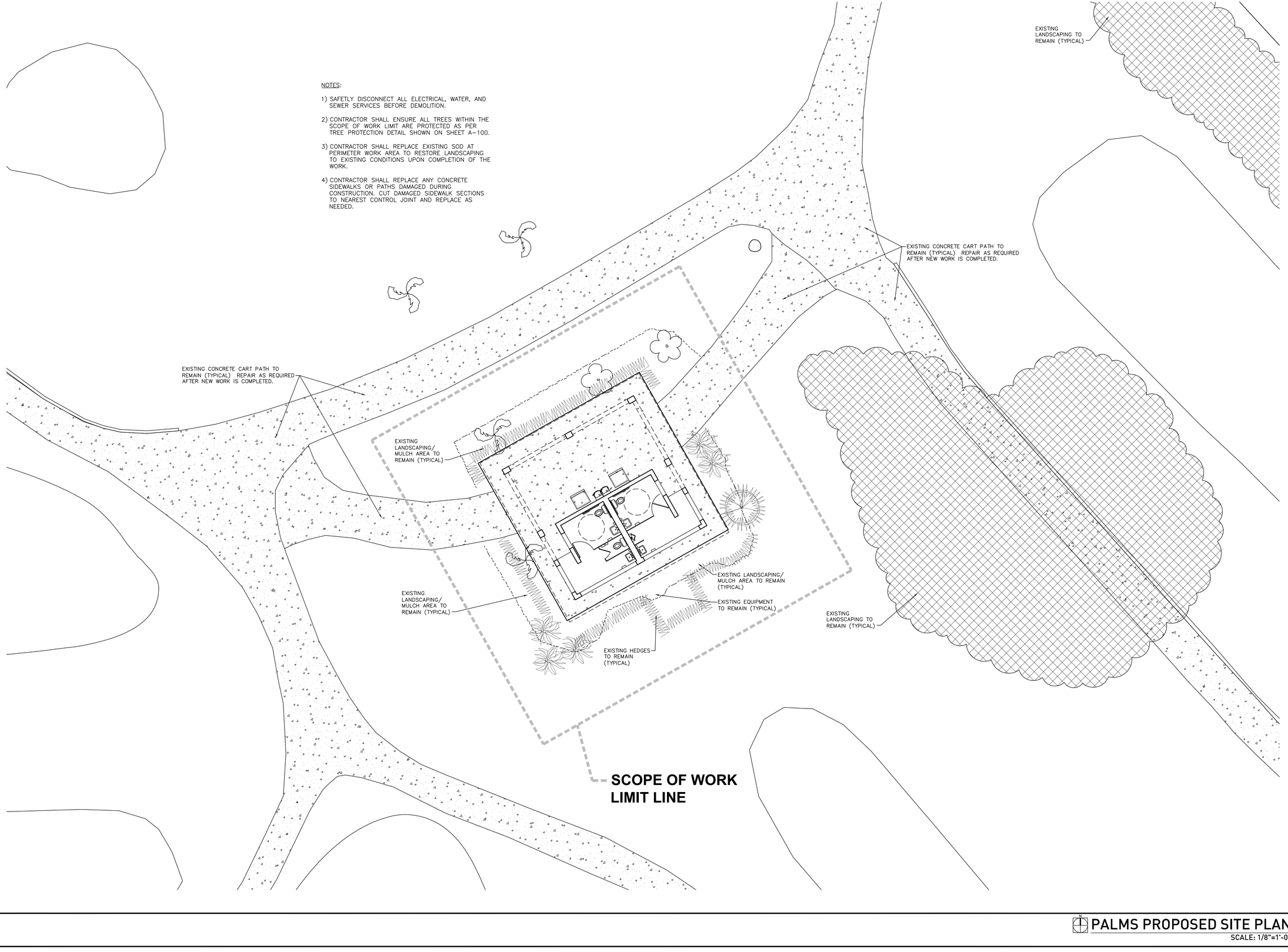
NOTES:

1) SAFETLY DISCONNECT ALL ELECTRICAL, WATER, AND SEWER SERVICES BEFORE DEMOLITION.

2) CONTRACTOR SHALL ENSURE ALL TREES WITHIN THE SCOPE OF WORK LIMIT ARE PROTECTED AS PER TREE PROTECTION DETAIL SHOWN ON SHEET A-100.

3) CONTRACTOR SHALL REPLACE EXISTING SOD AT PERIMETER WORK AREA TO RESTORE LANDSCAPING TO EXISTING CONDITIONS UPON COMPLETION OF THE WORK.

4) CONTRACTOR SHALL REPLACE ANY CONCRETE SIDEWALKS OR PATHS DAMAGED DURING CONSTRUCTION. CUT DAMAGED SIDEWALK SECTIONS TO NEAREST CONTROL JOINT AND REPLACE AS NEEDED.




# CITY OF POMPANO BEACH GOLF COURSE SHELTER & RESTROOM RENOVATIONS

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SEAL & SIGNATURE:

ROLANDO SILVA FL AR-7202

KEY PLAN:

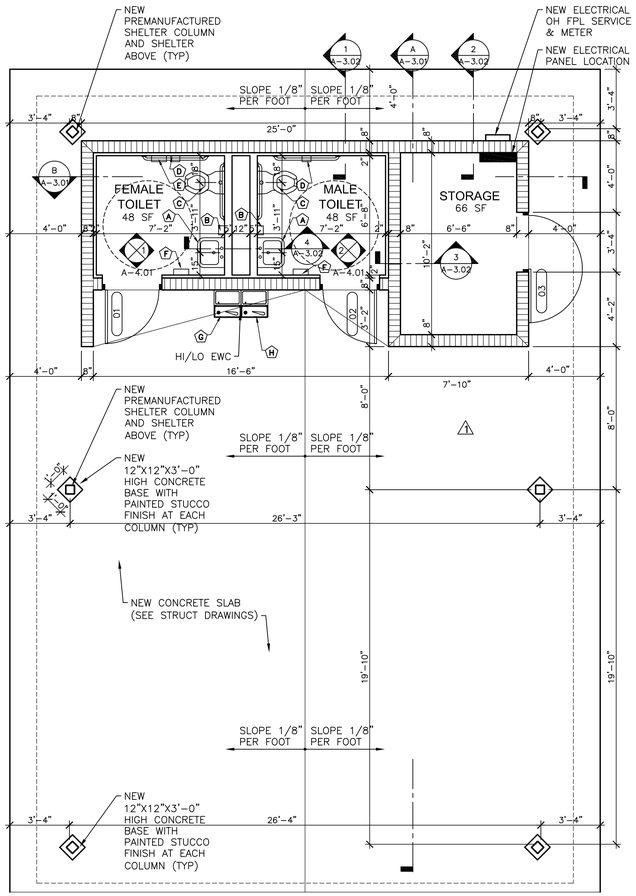
DRAWING TITLE:
PALMS SITE PLAN

| DRAWN: | CHECKED: |
|---|---|
| DATE: | DEC. 1, 2014 |

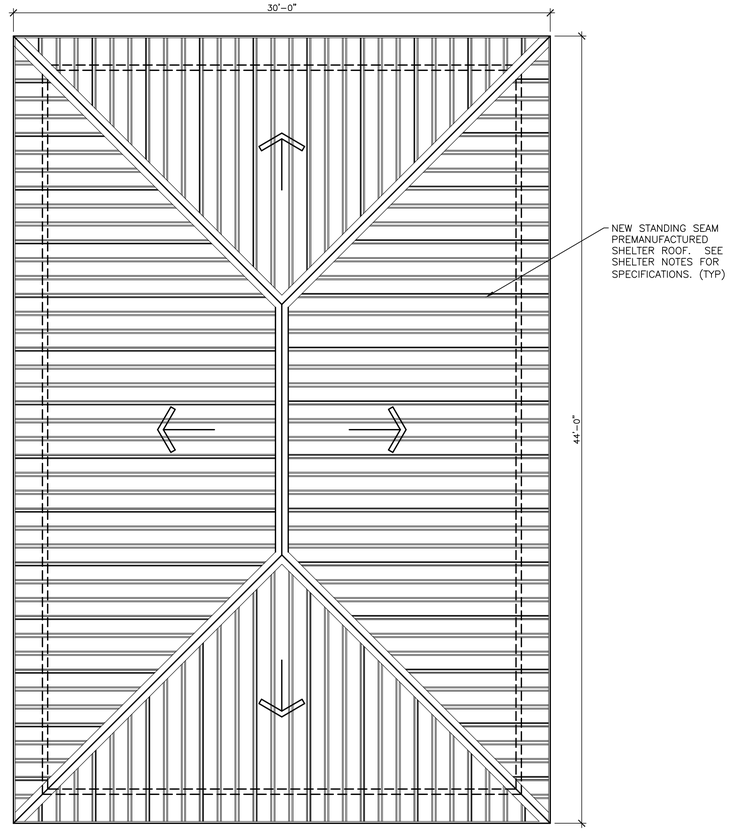
SUBMITTAL:
PERMIT SUBMITTAL

PALMS PROPOSED SITE PLAN
SCALE: 1/8"=1'-0"

SHEET NUMBER:
A-1.10




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




## HALFWAY HOUSE ROOF PLAN
SCALE: 1/4"=1'-0"

## SHELTER NOTES & SPECIFICATIONS

1. CONTRACTOR SHALL PROVIDE A PREMANUFACTURED SHELTER MODEL RAMADA 30X44 BY POLIGON/PORTERCORP OR A/E APPROVED EQUAL.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A FLORIDA REGISTERED PE FOR ALL SHELTER COMPONENTS AND SHELTER ASSEMBLY, INCLUDING BUT NOT LIMITED TO ROOF PANELS, COLUMNS, BEAMS, AND ALL REQUIRED CONNECTIONS AND DETAILS FOR APPROVAL BY A/E. SHELTER SHALL HAVE ALL REQUIRED FLORIDA BUILDING CODE PRODUCT APPROVALS.
3. PREMANUFACTURED SHELTER SHALL BE 30'-0" X 44'-0" AS SHOWN ON DRAWINGS AND BE PROVIDED WITH 9'-0" CLEAR HEIGHT TO BOTTOM OF PERIMETER BEAM.
4. PREMANUFACTURED SHELTER SHALL BE PROVIDED WITH P.T. 2"X6" T&G DECKING WITH STANDING SEAM METAL ROOF AS PER FLORIDA BUILDING CODE PRODUCT APPROVAL.
5. PREMANUFACTURED SHELTER SHALL BE PROVIDED WITH FULL UL LISTED LIGHTNING PROTECTION SYSTEM INTEGRAL TO SHELTER.
6. SHELTER COLORS SHALL BE SELECTED FROM FULL RANGE OF MANUFACTURER'S STANDARD COLORS. PRELIMINARY SELECTIONS ARE:
   ROOF = REGAL WHITE
   FRAME = SURREY BEIGE

## GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIM/HERSELF WITH THE PROPOSED AREA AND ENSURE WORK CAN BE ACCOMPLISHED AS PER DRAWINGS BEFORE COMMENCING WORK. CONTRACTOR SHALL NOTIFY A/E OF ANY DISCREPANCIES AND/OR PROBLEMS WITH ROUTING BEFORE COMMENCING WORK.
2. CONTRACTOR SHALL RESTORE ALL AREAS TO A CONDITION EQUIVALENT TO BEFORE WORK WAS INSTALLED. CONTRACTOR IS RESPONSIBLE FOR ALL PATCHING, PAINTING, RE-SODDING, AND RESTORATION OF ASPHALT WALKS AND/OR CONCRETE SIDEWALKS DAMAGED DURING CONSTRUCTION.
3. CONTRACTOR SHALL COORDINATE ALL SCHEDULES WITH CITY OF POMPANO BEACH PROJECT MANAGER & A/E.
4. CONTRACTOR SHALL PROVIDE TEMPORARY SECURITY CHAIN LINK FENCING AROUND PROJECT PERIMETER BEFORE COMMENCING WORK. EXACT LOCATION OF FENCING SHALL BE COORDINATED WITH CITY OF POMPANO BEACH PROJECT MANAGER & A/E. MEANS OF EGRESS MUST BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.
5. CONTRACTOR SHALL RESTORE AND/OR REPAIR ANY IRRIGATION LINES DAMAGED DURING CONSTRUCTION OF NEW WORK.
6. REFER TO CIVIL DRAWINGS FOR GRADING OF AREAS AFFECTED BY SCOPE OF WORK.

## GENERAL NOTES
SCALE: NTS

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| 1 | PRE-DRC MTG | 9-25-14 | | | |

SEAL & SIGNATURE:

ROLANDO SILVA FL AR-7202

KEY PLAN:

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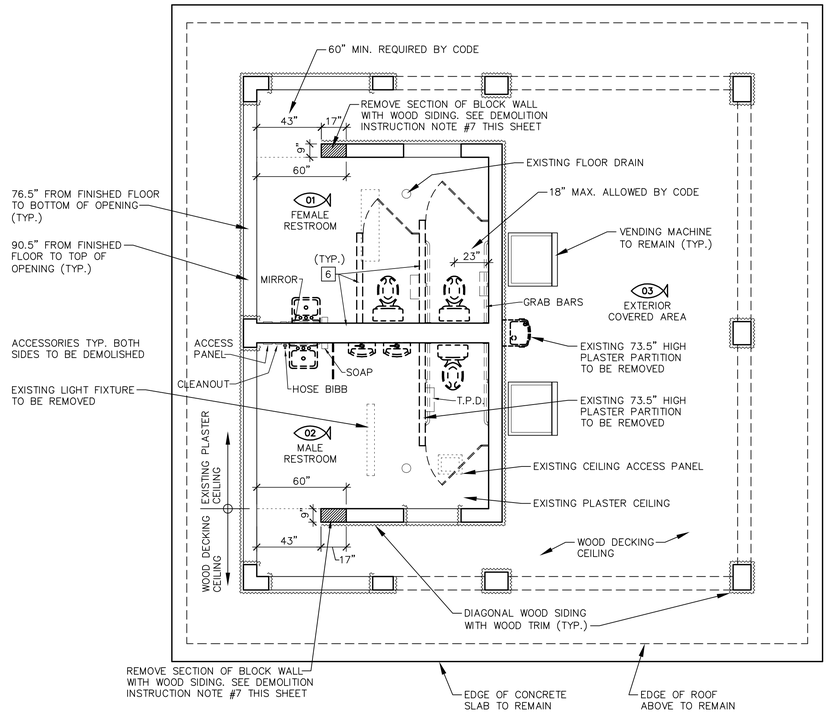
**HALFWAY HOUSE FLOOR PLAN & ROOF PLAN**

DRAWN: | CHECKED:

DATE: DEC. 1, 2014

SUBMITTAL:
**PERMIT SUBMITTAL**

SHEET NUMBER:
**A-2.01**




## PALMS RESTROOM - DEMOLITION FLOOR PLAN

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

## DEMOLITION INSTRUCTIONS

1. SAFETLY DISCONNECT ALL ELECTRICAL, WATER, AND SEWER SERVICES BEFORE DEMOLITION. REMOVE EXISTING TOILETS, LAVATORIES, CASEWORK, TOILET PARTITIONS AND ALL RELATED ACCESSORIES IN THIS ROOM. PREP FOR INSTALLATION OF NEW TOILETS, LAVATORIES, TOILET PARTITIONS & ALL RELATED ACCESSORIES AS PER PLANS.
2. DEMOLISH EXISTING WALLS AS REQUIRED TO COMPLETE NEW WORK AND PREP AREA FOR NEW WORK.
3. REMOVE EXISTING FLOOR FINISH & BASE TO CONCRETE SLAB AS REQUIRED. PREP FOR INSTALLATION OF NEW AS PER PLANS.
4. REMOVE EXISTING CONCRETE FLOOR AS REQUIRED TO INSTALL NEW MEP UG WORK AS PER PLANS & SPECS. REMOVE EXISTING UG MEP WORK AS REQUIRED TO INSTALL NEW MEP WORK AS PER PLANS & SPECS. POUR NEW CONCRETE SLAB TO MATCH EXISTING AFTER COMPLETION OF WORK.
5. REMOVE ANY UG ELECTRICAL, WATER, AND SEWER SERVICES NOT REQUIRED FOR NEW WORK.
6. REMOVE EXISTING WALL & WALL MOUNTED DEVICES & ACCESSORIES THIS ROOM AS PER PLANS. REMOVE WALL FINISHES TO STUDS AS REQUIRED TO COMPLETE NEW WORK.
7. REMOVE WOOD TRIM ALONG CORNERS AND FLOOR AS NEEDED TO REMOVE SECTION OF CMU WALL. SAVE WOOD TRIM FOR REUSE IF POSSIBLE.
8. CUT EXISTING DRYWALL/PLASTER CEILING AS REQUIRED TO INSTALL NEW MEP WORK ABOVE CEILING. REMOVE LIGHTS AND TEMPORARILY REMOVE ANY OTHER CEILING MOUNTED MEP DEVICES AS REQUIRED TO INSTALL NEW MEP WORK ABOVE CEILING THIS ROOM. CONTRACTOR SHALL REMOVE ONLY THOSE COMPONENTS NECESSARY TO INSTALL NEW WORK. ALL REMOVED COMPONENTS SHALL BE STORED IN A SAFE, SECURED AREA FOR RE-INSTALLATION. SEE ARCHITECTURAL DRAWINGS, SPECIFICATIONS, AND MEP DRAWINGS FOR ADDITIONAL INFORMATION.
9. REMOVE EXISTING DRINKING FOUNTAIN. PREP EXISTING WALL FOR INSTALLATION OF NEW HI/LO EWC AS PER PLANS & SPECIFICATIONS. SAFELY CAP & DISCONNECT BEFORE REMOVING.

## DEMOLITION NOTES

1 THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO ANY DEMOLITION OR CONSTRUCTION WORK.

2 THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN ON THE PLANS.

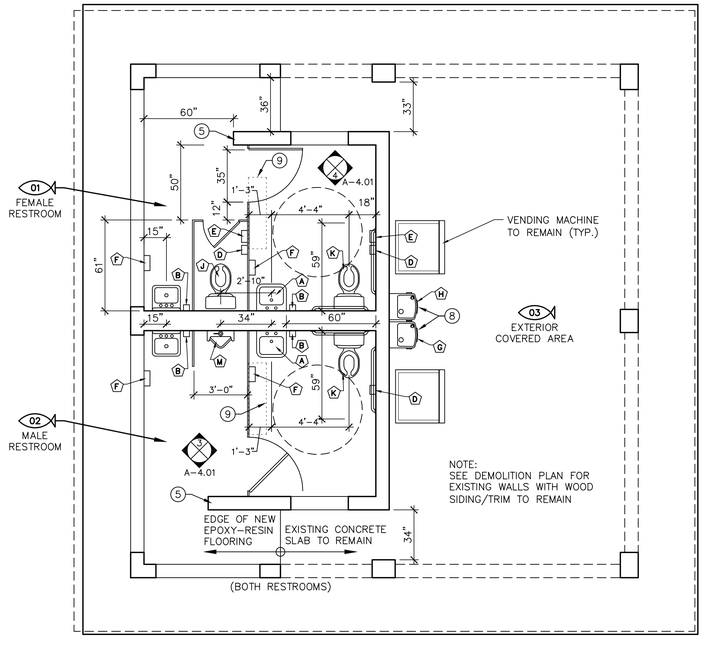
3 THE CONTRACTOR SHALL PROVIDE ALL THE NECESSARY CONSTRUCTION BARRIERS AND SIGNS IN THOSE AREAS WHERE WORK IS BEING PERFORMED IN ORDER TO PROVIDE SAFETY TO STUDENTS, STAFF AND THE GENERAL PUBLIC.

4 ANY DAMAGES TO SURFACES AND/OR FINISHES CAUSED BY REMOVAL OF MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT SHALL BE REPAIRED TO MATCH EXISTING.

5 PRIOR TO REMOVAL OF ANY EQUIPMENT SCHEDULED TO BE REINSTALLED, THE CONTRACTOR SHALL PROVIDE AN INVENTORY OF THE CONDITION OF THE EQUIPMENT FOR THE OWNER'S APROVAL.

6 THE CONTRACTOR SHALL REPAIR OR REPLACE ANY EQUIPMENT OR ACCESSORIES THAT IS/ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION.

7 THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE BURIED ELECTRICAL OR PLUMBING LINES THAT ARE DAMAGED AS THE RESULT OF ANY DEMOLITION ACTIVITIES.




## PALMS RESTROOM - PROPOSED FLOOR PLAN

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

## NEW CONSTRUCTION INSTRUCTIONS

(1) PROVIDE NEW PLUMBING FIXTURES, TOILET PARTITIONS, TILE & ACCESSORIES AS PER PLANS. (SEE MEP DRAWINGS.)

(2) PAINT ALL INTERIOR WALLS & CEILING.

(3) PROVIDE NEW SUBFLOOR AS REQUIRED TO COMPLETE NEW WORK. PROVIDE NEW EPOXY-RESIN FLOORING WITH 4" INTEGRAL COVE EPOXY BASE. ADJUST EXISTING FLOOR DRAIN AS REQUIRED OR PROVIDE NEW DRAIN.

(4) PROVIDE ADDITIONAL CEILING/ROOF FRAMING AS REQUIRED BY REMOVAL OF EXISTING WALL, ABOVE CEILING MEP & INSTALLATION NEW LIGHT FIXTURE. REMOVE & PATCH PLASTER CEILING AS REQUIRED TO COMPLETE WORK. MATCH FINISH OF EXISTING CEILING. PAINT ENTIRE CEILING TO NEAREST EDGE.

(5) PROVIDE FILLED CELLS AND REINFORCING AT NEW CMU WALL END AND/OR FRAMING TO MATCH PREVIOUS WALL TERMINATION. REUSE WOOD TRIM ALONG CORNERS AND FLOOR AT WALL SECTION REMOVAL IF POSSIBLE AND IF IN GOOD CONDITION. IF NEW WOOD TRIM / SIDING IS REQUIRED. MATCH FINISH OF EXISTING WOOD STAIN. SAMPLES TO BE SUBMITTED TO A/E & OWNER FOR APPROVAL BEFORE INSTALLATION.

(6) CONTRACTOR SHALL RE-INSTALL ANY CEILING COMPONENTS OR ANY OTHER CEILING MOUNTED MEP DEVICES THAT WERE REMOVED. REPAIR ANY FINISHES DAMAGED AS PART OF INSTALLATION OF MEP WORK OR RE-INSTALLATION OF CEILING COMPONENTS (INCLUDING PATCHING & PAINTING OF ANY DRYWALL/PLASTER CEILINGS). PROVIDE NEW CEILING COMPONENTS, LIGHTS OR OTHER CEILING MOUNTED COMPONENTS DAMAGED DURING REMOVAL AND/OR RE-INSTALLATION. PROVIDE ACCESS PANEL AS REQUIRED IN AREAS WITH HARD CEILINGS.

(7) CONTRACTOR SHALL PATCH & REPAIR ALL STUCCO/PLASTER WALLS TO MATCH EXISTING FINISH AND PROVIDE NEW DUROCK FOR NEW TILE WAINSCOTTING.

(8) PROVIDE NEW HI/LO EWC AT THIS LOCATION AS PER PLANS. REMOVE DAMAGED WOOD SIDING & PROVIDE NEW SUPPORT FRAMING IF REQUIRED. PROVIDE NEW SIDING AS BASE FOR NEW EWC. SEE NEW CONSTRUCTION INSTRUCTION NOTE #5 FOR DETAILS.

(9) PROVIDE NEW LIGHT FIXTURE (SEE MEP DRAWINGS) AS PER PLANS AND SPECIFICATIONS

(10) RESTORE ALL CONCRETE, ASPHALT AREAS, AND LANDSCAPED AREAS AFTER INSTALLATION OF NEW MEP WORK UG.

# CITY OF POMPANO BEACH GOLF COURSE SHELTER & RESTROOM RENOVATIONS

pompano beach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| NO. | DESCRIPTION: | DATE: | NO. | DESCRIPTION: | DATE: |
|---|---|---|---|---|---|
| 1 | PRE-DRC MTG | 8-25-14 | | | |

SEAL & SIGNATURE:

ROLANDO SILVA FL AR-7202

KEY PLAN:

DRAWING TITLE:

**PALMS FLOOR PLANS**

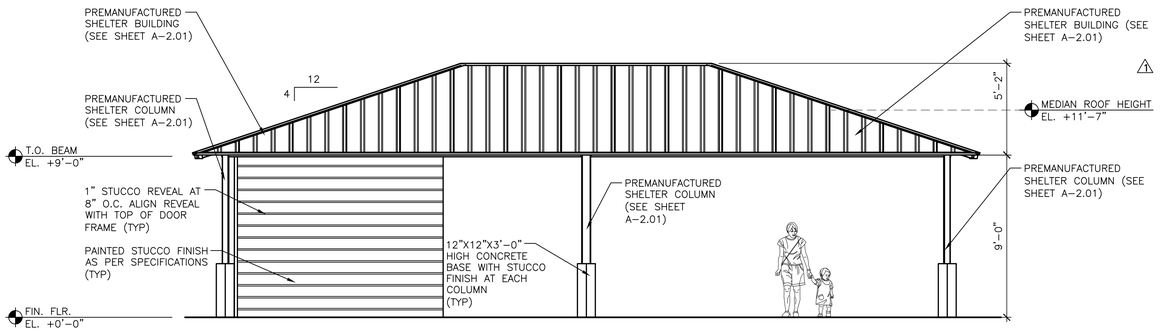
| DRAWN: | CHECKED: |
|---|---|
| DATE: | DEC. 1, 2014 |

SUBMITTAL:

**PERMIT SUBMITTAL**

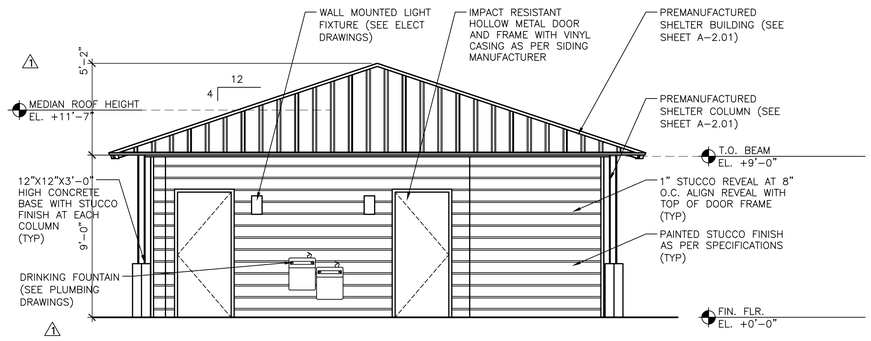
SHEET NUMBER:

**A-2.10**



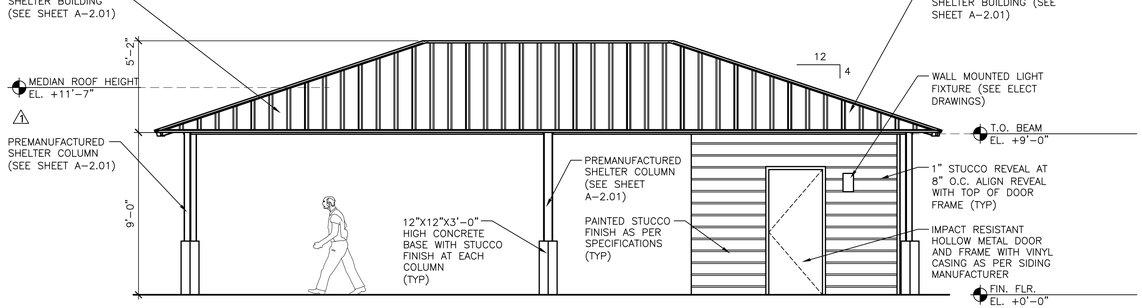

## SOUTHWEST ELEVATION

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




## SOUTHEAST ELEVATION

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




## NORTHEAST ELEVATION

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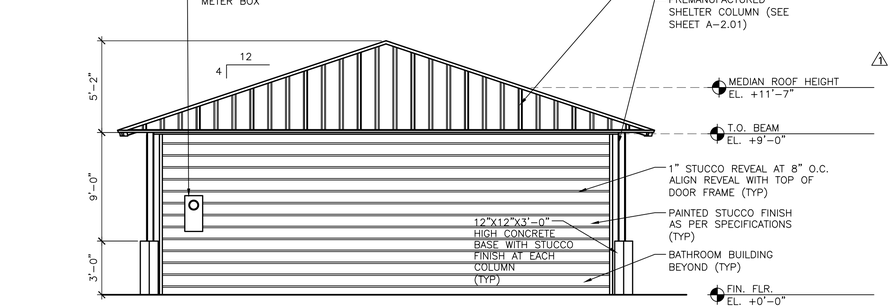


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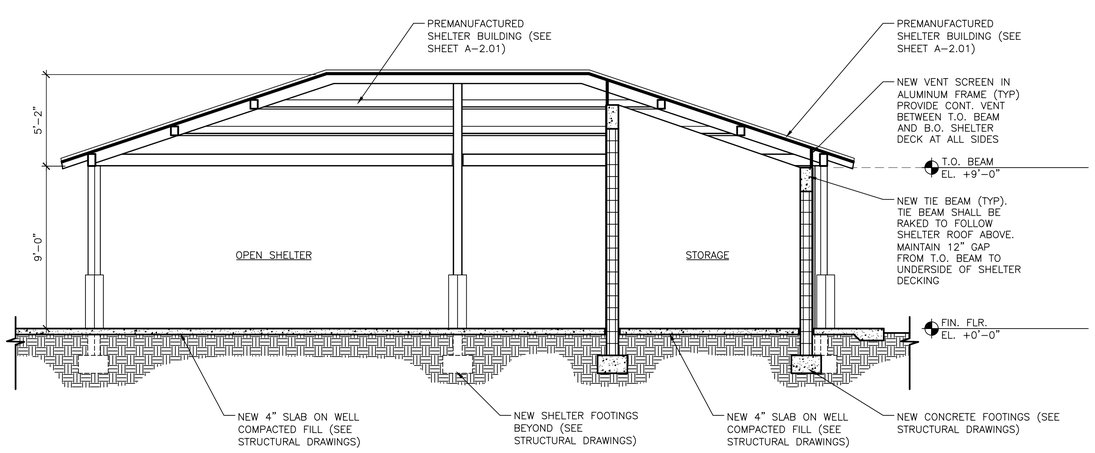
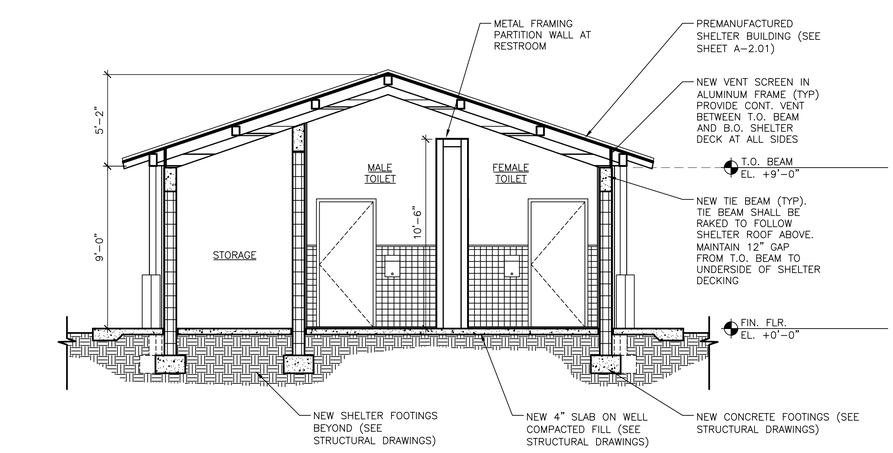



## BUILDING SECTION A

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




## BUILDING SECTION B

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

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| 1 | PRE-DRC MTG | 8-25-14 | | | |

SEAL & SIGNATURE:

ROLANDO SILVA FL AR-7202

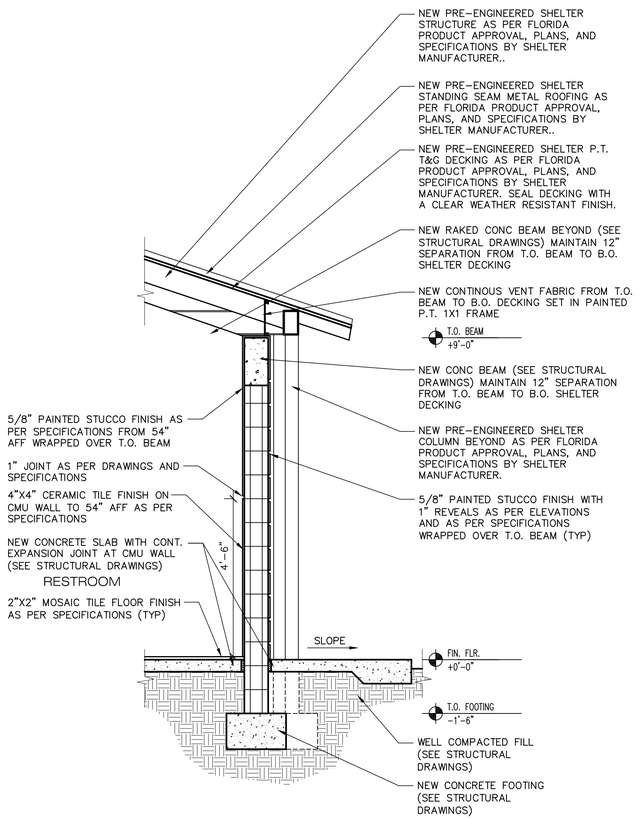
KEY PLAN:

DRAWING TITLE:
**ELEVATIONS & BLDG SECTIONS**

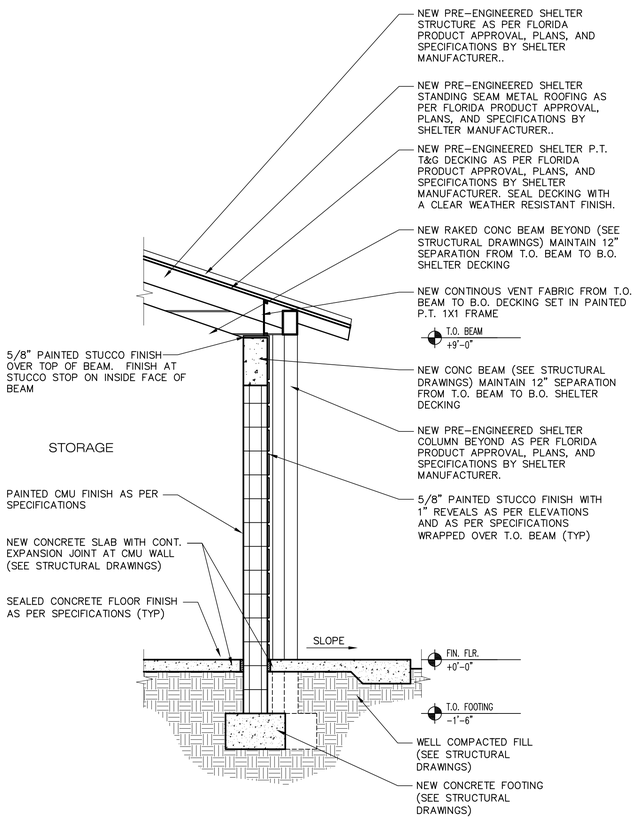
| DRAWN: | CHECKED: |
|---|---|
| DATE: | DEC. 1, 2014 |

SUBMITTAL:
**PERMIT SUBMITTAL**

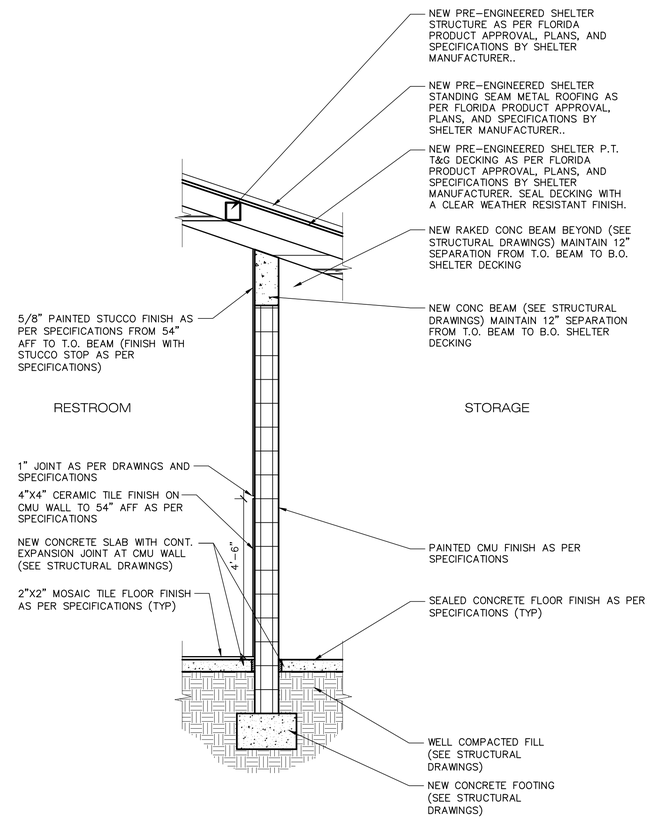
SHEET NUMBER:
**A-3.01**



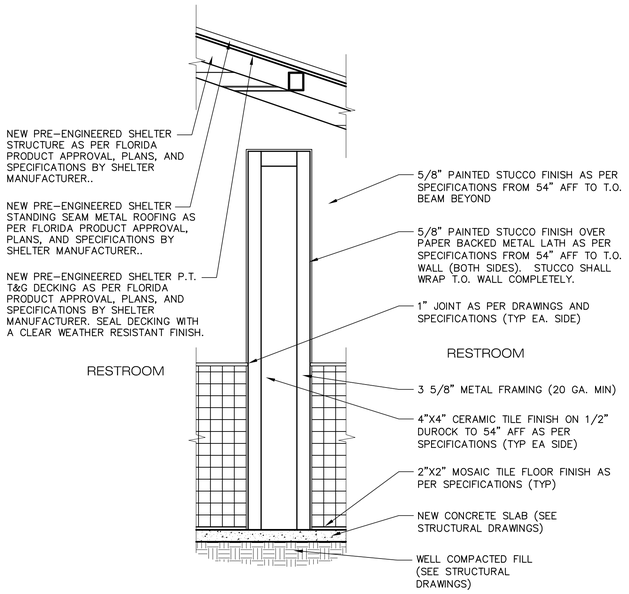

## WALL SECTION 1
SCALE: 1/2"=1'-0"




## WALL SECTION 2
SCALE: 1/2"=1'-0"




## WALL SECTION 3
SCALE: 1/2"=1'-0"




## WALL SECTION 4
SCALE: 1/2"=1'-0"

## GENERAL NOTES

1. FRAME & BRACE AS REQUIRED AROUND ALL PIPING AND DUCTWORK TO MAINTAIN PARTITION SUPPORT.
2. SPACING OF ALL METAL STUD PARTITIONS SHALL BE 16" O.C. UNLESS OTHERWISE INDICATED.
3. METAL STUD PARTITIONS SHALL BE 20 GAGE MINIMUM AND IN COMPLIANCE WITH ASTM C 754, SPECIFICATIONS, AND THE FLORIDA BUILDING CODE SECTION 2505 WITH REGARDS TO GAGE AND BRACING REQUIREMENTS.
4. AT METAL FRAME PARTITIONS SCHEDULED TO RECEIVE WALL MOUNTED ITEMS SUCH AS GRAB BARS, MIRRORS, ETC, THE APPLICABLE SUBCONTRACTOR SHALL PROVIDE THE REQUIRED METAL BACKING (20 GAGE MINIMUM) SO AS TO ALLOW FOR THE PROPER FASTENING OF THE SCHEDULED ITEM. WOOD BLOCKING SHALL NOT BE PERMITTED.
5. FOR ALL FRAMING AT INTERIOR USE 20 GA. MIN. METAL STUDS WITH VERTICAL STRUTS. CONTRACTOR SHALL PROVIDE SIGNED & SEALED DRAWINGS BY A FLORIDA REGISTERED PE SHOWING COMPLIANCE WITH FBC AS PER SPECIFICATIONS. PROVIDE 3.4 HI-RIB LATH WITH STUCCO FINISH AND JOINTS AS PER ARCH DRAWINGS AND/OR NO MORE THAN 5'-0" O.C.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ROUTING OF MEP LINES, CONDUITS, AND DUCTS THROUGH BUILDING AND ENSURING APPROPRIATE PARTITION WALLS/CHASES ARE PROVIDED AS REQUIRED. ANY ADJUSTMENT IN SIZE OF METAL FRAMING OR LOCATION OF CHANGES SHALL BE DONE BY CONTRACTOR AND NO ADDITIONAL PRICE ADJUSTMENT SHALL BE MADE.

# CITY OF POMPANO BEACH GOLF COURSE SHELTER & RESTROOM RENOVATIONS

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ROLANDO SILVA FL AR-7202

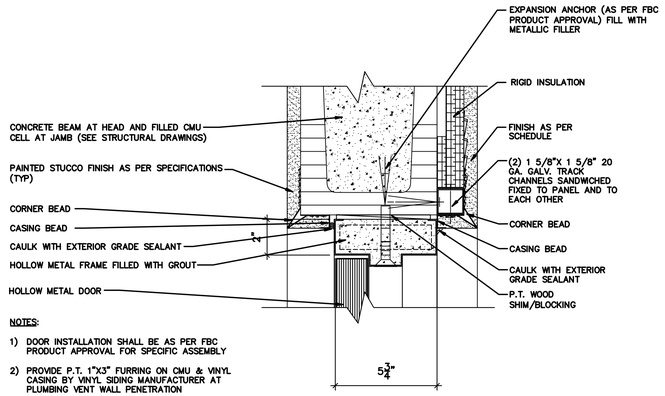
KEY PLAN:

DRAWING TITLE:
**WALL SECTIONS**

| DRAWN: | CHECKED: |
|---|---|
| DATE: | DEC. 1, 2014 |

SUBMITTAL:
**PERMIT SUBMITTAL**

SHEET NUMBER:
**A-3.02**

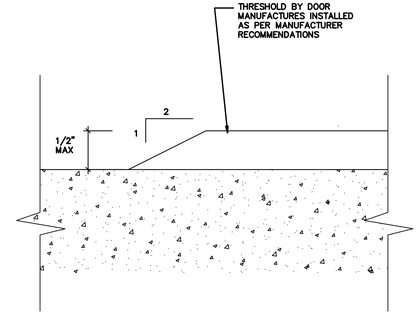



NOTES:

1) DOOR INSTALLATION SHALL BE AS PER FBC PRODUCT APPROVAL FOR SPECIFIC ASSEMBLY
2) PROVIDE P.T. 1"X3" FURRING ON CMU & VINYL CASING BY VINYL SIDING MANUFACTURER AT PLUMBING VENT WALL PENETRATION

## DOOR HEAD/JAMB DETAIL

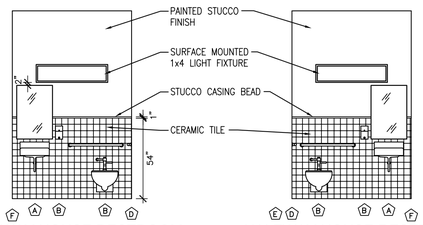
SCALE: 3" = 1'-0"



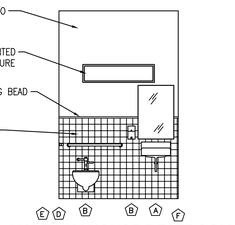

## THRESHOLD DETAIL

SCALE: NTS

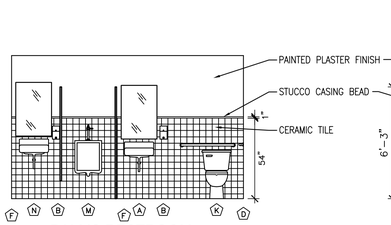
NOTE: SEE WALL SECTIONS FOR DETAILS



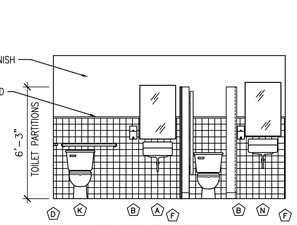

HALFWAY HOUSE RESTROOM
ELEVATION #1
MALE TOILET




HALFWAY HOUSE RESTROOM
ELEVATION #2
FEMALE TOILET

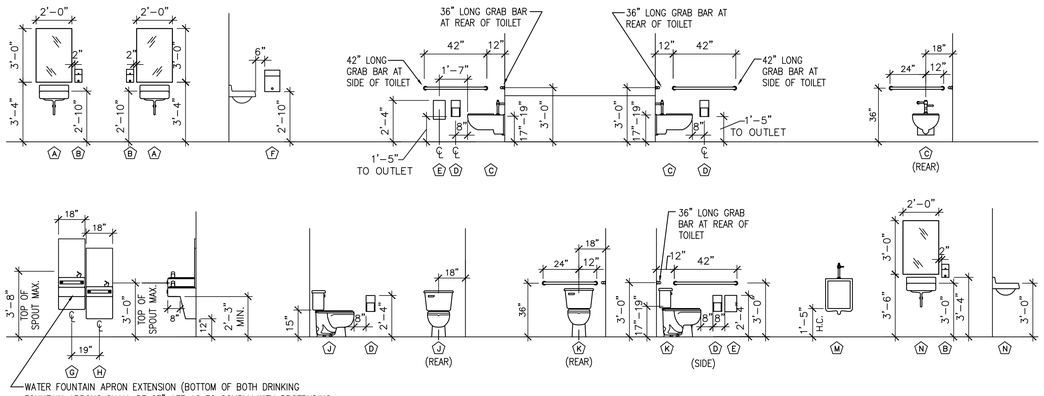



PALMS RESTROOM
ELEVATION #3
MALE TOILET




PALMS RESTROOM
ELEVATION #4
FEMALE TOILET

## TYPICAL TOILET FIXTURE VERTICAL DIMENSIONS AND ACCESSORY LEGEND




(A) WALL MOUNTED LAVATORY AND STEEL MIRROR FOR HANDICAPPED ACCESS, AS INDICATED ON DRAWINGS

(B) SOAP DISPENSER

(C) HANDICAPPED WATER CLOSET WITH GRAB BARS AS PER FACBC

(D) SURFACE MOUNTED TOILET TISSUE DISPENSER

(E) SANITARY NAPKIN DISPOSAL

(F) SURFACE MOUNTED SINGLEFOLD PAPER TOWEL DISPENSER

(G) DRINKING FOUNTAIN

(H) DRINKING FOUNTAIN (HANDICAP ACCESSIBLE)

(J) WATER CLOSET (FLOOR MOUNTED)

(K) HANDICAPPED WATER CLOSET (FLOOR MOUNTED) WITH GRAB BARS AS PER FACBC

(L) SURFACE MOUNTED TOILET TISSUE DISPENSER

(M) HANDICAPPED URINAL

(N) WALL MOUNTED LAVATORY AND STEEL MIRROR

## GENERAL NOTES:

1. REFER TO FIXTURE AND ACCESSORY LEGEND FOR MOUNTING HEIGHTS (THIS SHEET)
2. PROVIDE SURFACE MOUNTED TOILET TISSUE DISPENSER IN ALL TOILET ROOMS.
3. PROVIDE SANITARY NAPKIN DISPOSAL UNIT IN ALL WOMEN RESTROOMS.
4. ALL WALLS ARE TO BE TILED TO 5'-4" ABOVE FINISHED FLOOR. SEE 1/4" SCALE FLOOR PLANS.
5. GRABRAILS IN BATHROOMS AND TOILET ROOMS SHALL BE LOCATED BETWEEN 33" AND 36" FROM THE FINISHED FLOOR, MEASURED VERTICALLY TO THE TOP OF THE RAIL AND THERE SHALL BE 1-1/2 INCHES OF CLEARANCE BETWEEN THE RAIL AND WALL.
6. GROUT AROUND ALL WALL PENETRATIONS AFTER INSTALLATION OF RESTROOM FIXTURES AND EQUIPMENT, AND PROVIDE CAULKING AS NECESSARY.
7. PROVIDE SOAP DISPENSER AT ALL LAVATORIES.
8. LOCATE SHUT-OFF VALVES ACCESS PANELS UNDERNEATH LAVATORY COUNTERS. PAINT TO MATCH WALL TILE FINISH AND CAULK PERIMETER OF PANEL (COLOR TO MATCH GROUT.)
9. CONTRACTOR SHALL CAULK PERIMETER OF TOILET ACCESSORIES.
10. HOT WATER PIPES AND SHARP EDGES UNDER LAVATORIES OR SINKS SHALL BE INSULATED OR OTHERWISE PROTECTED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES OR SINKS.
11. THE STRUCTURAL STRENGTH OF GRAB BARS AND SHOWER SEATS SHALL BE DESIGNED AND SUPPORTED AS TO WITHSTAND A LOAD OF NOT LESS THAN 250 POUNDS APPLIED AT ANY POINT, DOWNWARD OR HORIZONTALLY.
12. ALL DIMENSIONS SHOWN ON PLANS ARE TRUE DIMENSIONS AND ARE REQUIRED TO COMPLY WITH FACBC & FBC
13. TOILET PARTITIONS SHALL SELF SUPPORT FROM WALL TO WALL. (NO OVERHEAD SUPPORT ACROSS STALL OR PARTITION DOORWAYS.

## BATHROOM ELEVATIONS AND DETAILS

NTS

# CITY OF POMPANO BEACH GOLF COURSE SHELTER & RESTROOM RENOVATIONS

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SEAL & SIGNATURE:

ROLANDO SILVA FL AR-7202

KEY PLAN:

DRAWING TITLE:

MISC. DETAILS

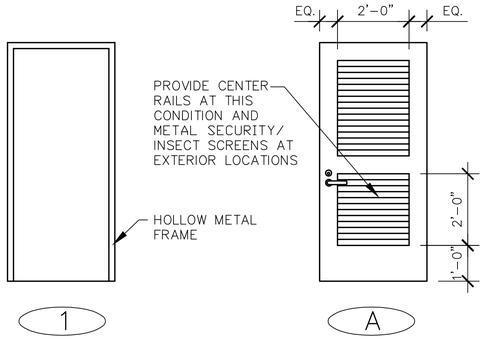
| DRAWN: | CHECKED: |
|---|---|
| DATE: | DEC. 1, 2014 |

SUBMITTAL:

PERMIT SUBMITTAL

SHEET NUMBER:

A-4.01




DOOR NOTES

1. FOR DOOR AND FRAME SPECIAL REQUIREMENTS, REFER TO DOOR MANUFACTURER'S RECOMMENDATIONS FOR HARDWARE REINFORCEMENT

2. PROVIDE DOOR CLOSERS AT ALL DOORS

3. ALL EXTERIOR DOORS SHALL HAVE A MAXIMUM 1/2" THRESHOLD IN COMPLIANCE WITH FBC. (SEE THRESHOLD DETAIL ON SHEET A-60)

4. EXTERIOR DOOR LOUVERS:
   a. ZEE PROFILE WEATHER RESISTANT TYPE EQUAL TO THICKNESS OF DOOR, WITH CENTER RAIL AND OF SIZES INDICATED.
   b. FABRICATE FRAMES AND LOUVERS OF 18 GAGE BONDERIZED ELECTRO ZINC COATED SHEET STEEL.
   c. WELD OR SECURE FRAME AND LOUVERS INTO DOORS WITHOUT USE OF SCREWS OR THROUGH BOLTS VISIBLE FROM THE SECURED SIDE.
   d. PROVIDE SECURITY GRILLE AS SPECIFIED ON INSIDE OF LOUVERS.
   e. AT LOUVER OPENING CUTOUT, PROVIDE MINIMUM OF 20 GAGE ZINC COATED STEEL CHANNEL CLOSURE WELDED AT OPENING PERIMETER.

5. INSECT SCREEN SHALL:
   - 18 X 16 MESH ALUMINUM SCREEN ON REWIREABLE EXTRUDED ALUMINUM FRAME.
   - MOUNT SCREEN ON INTERIOR OF EXTERIOR DOORS WITH ZINC PLATED SHEET METAL SCREWS AT 12 INCHES O.C.

## DOOR SCHEDULE

| DOOR TAG | DESCRIPTION | DOOR TYPE | DOOR MAT'L | DOOR FINISH | DOOR SIZE W | DOOR SIZE H | DOOR SIZE T | FRAME TYPE | FRAME FINISH | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | FEMALE TOILET | A | HM | PNT | 3'-0" | 6'-8" | 1 3/8" | 1 | PAINTED | IMPACT RESISTANT – EXTERIOR FULL LOUVERED DOOR CLOSER WITH LOCKING MECHANISM |
| 2 | MALE TOILET | A | HM | PNT | 3'-0" | 6'-8" | 1 3/8" | 1 | PAINTED | IMPACT RESISTANT – EXTERIOR FULL LOUVERED DOOR CLOSER WITH LOCKING MECHANISM |
| 3 | STORAGE | A | HM | PNT | 3'-0" | 6'-8" | 1 3/8" | 1 | PAINTED | IMPACT RESISTANT – EXTERIOR FULL LOUVERED DOOR CLOSER WITH LOCKING MECHANISM |

GENERAL NOTES FOR DOORS:

1. ALL EXTERIOR DOORS SHALL HAVE FLORIDA PRODUCT APPROVAL FOR IMPACT RESISTANCE. GC SHALL SUBMIT MIAMI-DADE NOA FOR APPROVAL BY A/E & BUILDING DEPARTMENT BEFORE FABRICATION.
2. ALL DOORS SHALL RECEIVE HC ACCESSIBLE HARDWARE
3. MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS:
   EXTERIOR DOORS: 8.5 LBF
   INTERIOR DOORS: 5 LBF
4. ALL DOORS SHALL RECEIVE NEW HARDWARE AS PER FBC PRODUCT APPROVAL
5. SEE DOOR DETAILS FOR INSTALLATION DETAILS.

## ROOM FINISH SCHEDULE

| ROOM NAME | FLOOR | BASE | WALLS | CEILING | CLG. HGT. | REMARKS |
|---|---|---|---|---|---|---|
| HALFWAY HOUSE MALE TOILET | SEALED CONCRETE | – | CERAMIC TILE / PAINTED STUCCO ON CMU | EXPOSED STRUCTURE CEILING | VARIES | * |
| HALFWAY HOUSE FEMALE TOILET | SEALED CONCRETE | – | CERAMIC TILE / PAINTED STUCCO ON CMU | EXPOSED STRUCTURE CEILING | VARIES | * |
| STORAGE | SEALED CONCRETE | – | PAINTED FINISH ON CMU | EXPOSED STRUCTURE CEILING | VARIES | * |
| PALMS – #001 FEMALE TOILET | EPOXY-RESIN | EPOXY-RESIN INTEGRAL 4" COVE | CERAMIC TILE WAISCOTTING, PAINTED STUCCO / PLASTER ON CMU (MATCH EXISTING) | PAINTED PLASTER | VARIES | |
| PALMS – #002 MALE TOILET | EPOXY-RESIN | EPOXY-RESIN INTEGRAL 4" COVE | CERAMIC TILE WAISCOTTING, PAINTED STUCCO / PLASTER ON CMU (MATCH EXISTING) | PAINTED PLASTER | VARIES | |
| PALMS – #003 EXTERIOR COVERED AREA | SEALED CONCRETE | WOOD SIDING / WOOD TRIM | WOOD SIDING / WOOD TRIM | WOOD SIDING / WOOD TRIM | VARIES | |

* EXTERIOR SHALL BE VINYL SIDING WITH CUSTOM VINYL END POSTS AT CORNERS

## GENERAL NOTES

1. GENERAL CONDITIONS:

   A. IF DURING THE COURSE OF CONSTRUCTION, ANY SUBSOIL CONDITION ENCOUNTERED IS DIFFERENT FROM THAT INDICATED BY THE BORINGS AND/OR FROM THAT ASSUMED BY THE ENGINEER, NOTIFY THE ARCHITECT – ENGINEER BEFORE PROCEEDING WITH THE WORK. SEE NOTE ON FOUNDATION AND GROUND FLOOR FRAMING PLANS.

   B. THE GENERAL CONTRACTOR SHALL CHECK, REVIEW AND VERIFY ALL PLANS, DIMENSIONS AND SITE CONDITIONS. SHOULD DISCREPANCIES APPEAR, NOTIFY THE ARCHITECT AND ENGINEER, IN WRITING, FOR A CLARIFICATION BEFORE COMMENCING WORK. GENERAL CONTRACTOR SHALL RESTRICT OR PROPERLY INSULATE EQUIPMENT, LOADINGS AND ELEMENTS THAT MAY INDUCE OR TRANSMIT VIBRATION INTO THE STRUCTURE.

   C. ALL SUPPORTS FOR EQUIPMENTS THAT MUST BE VARIED TO SUIT PARTICULAR MANUFACTURER'S REQUIREMENTS SHALL BE DETAILED AND SUBMITTED FOR APPROVAL. ANY ADDITIONAL MATERIAL REQUIRED SHALL BE PROVIDED BY THE CONTRACTOR

   D. IN PERFORMANCE OF WORK BELOW EXISTING GRADE, CARE SHALL BE EXERTED TO AVOID EXISTING UTILITIES DISCOVERED IN THE COURSE OF WORK SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR APPROPRIATE ACTION.

   E. AFTER REMOVAL OF EXISTING UNDERGROUND UTILITIES AND OTHER CONSTRUCTION NOTED TO BE REMOVED AND/OR REQUIRED, BACK FILLING OF EXCAVATION SHALL BE IN ACORDANCE WITH SPECIFICATIONS OR STANDARD PROCEDURES

   F. PROVIDE THE FOLLOWING UL ASSEMBLIES AT FIRE RATED PENETRATIONS:

| | |
|---|---|
| METALLIC PIPE PENETRATIONS THRU FLOOR SLAB LESS THAN 24" DIA. | UL C-AJ-5120 |
| METALLIC PIPE PENETRATIONS THRU MASONRY WALLS LESS THAN 24" DIA. | UL C-AJ-5120 |
| INSULATED METALLIC PIPE PENETRATIONS THRU MASONRY WALLS AND/OR SLABS LESS THAN 24" DIA. | UL C-AJ-5987 |
| METALLIC PIPE PENETRATIONS THRU PARTITION WALLS LESS THAN 24" DIA. | UL W-L-1049 |
| NON-METALLIC PIPE PENETRATIONS THRU PARTITION WALLS LESS THAN 24" DIA. | UL W-L-2299 |
| NON-METALLIC PIPE PENETRATIONS THRU CONCRETE SLAB AND/OR MASONRY WALLS LESS THAN 24" DIA. | UL C-AJ-2216 |
| WALL/SLAB JOINT | UL H-W-0001 |

CITY OF POMPANO BEACH GOLF COURSE SHELTER & RESTROOM RENOVATIONS

pompano beach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305-444-8210


| NO. | DESCRIPTION: | DATE: | NO. | DESCRIPTION: | DATE: |
|---|---|---|---|---|---|
| 1 | PRE-DRC MTG | 8-25-14 | | | |

SEAL & SIGNATURE:

ROLANDO SILVA FL AR-7202

KEY PLAN:

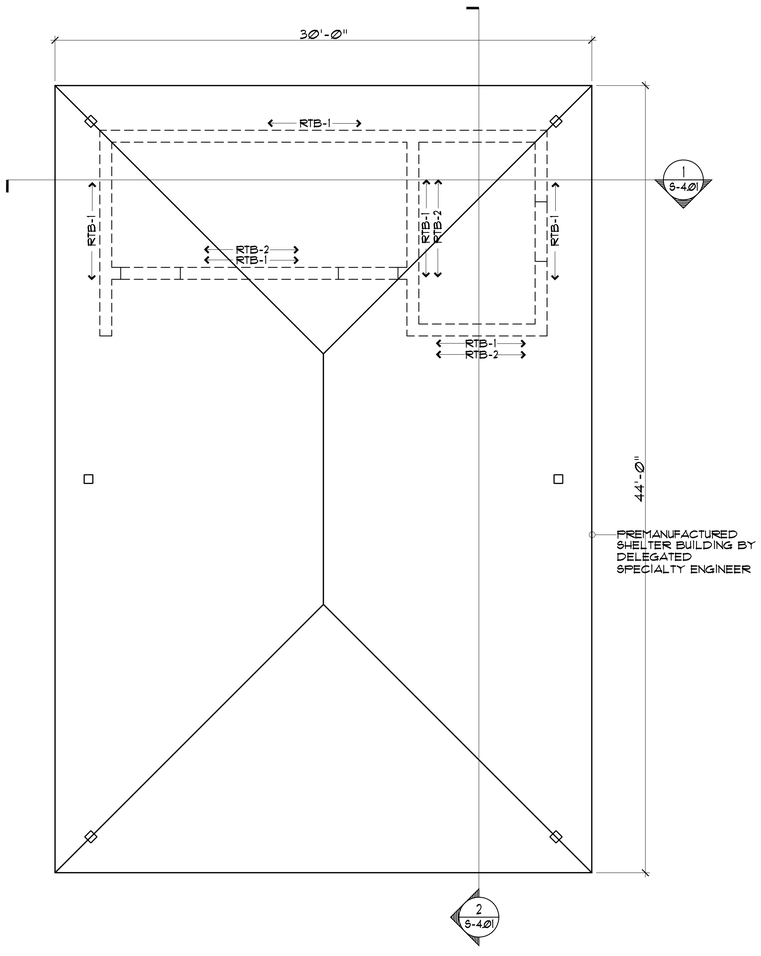
DRAWING TITLE:
SCHEDULES AND GENERAL NOTES

DRAWN: | CHECKED:

DATE: DEC. 1, 2014

SUBMITTAL:
PERMIT SUBMITTAL

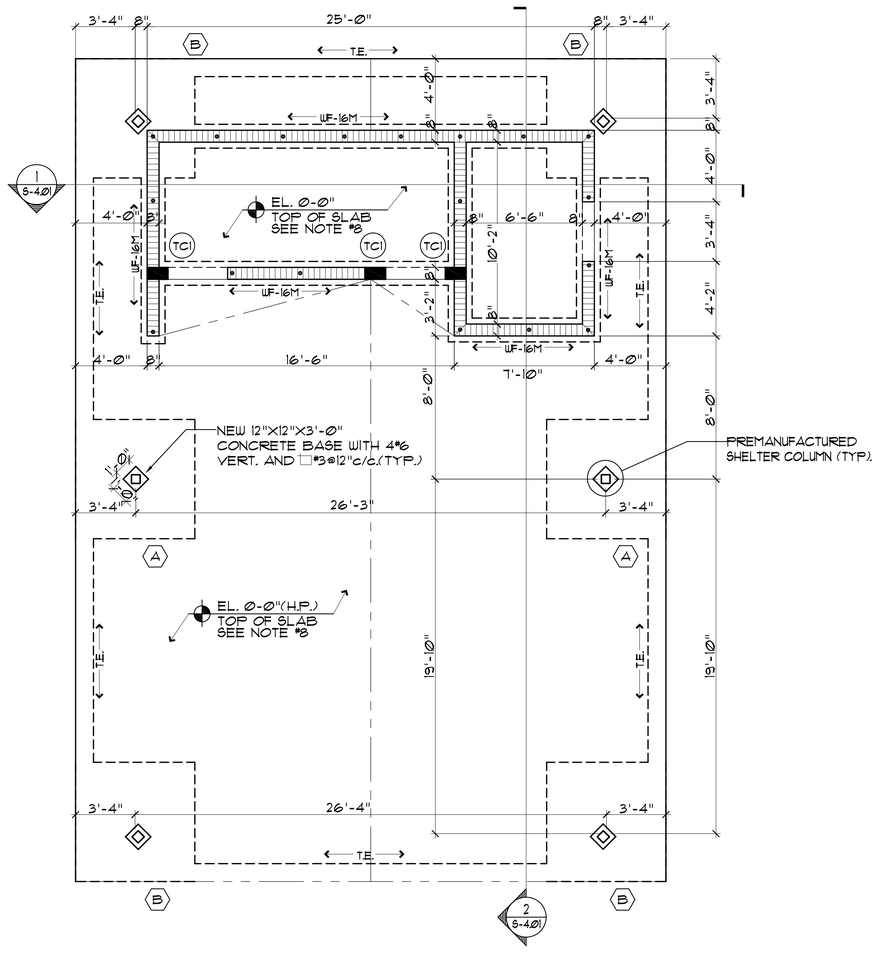
SHEET NUMBER:
A-5.01




## ROOF FRAMING PLAN

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

1. - PREMANUFACTURED SHELTER BUILDING TO BE DESIGN BY DELEGATED SPECIALTY ENGINEER SUBMIT SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS COMPLYING WITH DESIGN CRITERIA OF ASCE 7-10, WIND SPEED=170MPH, RISK CATEGORY II, EXPOSURE C.




## FOUNDATION AND GROUND FLOOR PLAN

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

GROUND FOOR PLAN NOTES

1. - TOP OF SLAB ELEVATION AS SHOWN THUS EL.
2. - TOP OF FOOTING ELEVATION=-0'-0" TYPICAL UNLESS OTHERWISE NOTED THUS :
3. - FOR GENERAL STRUCTURAL NOTES, SEE SHEET NO. S-3.01
4. - FOR FOOTING SCHEDULE, SEE SHEET NO. S-3.01
5. - FOR STEEL COLUMN SCHEDULE, SEE SHEET NO. S-3.01
6. - COORDINATE ALL SLAB DEPRESSIONS, SLOPES AND OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
7. - DENOTES 8" (NON BEARING) REINFORCED MASONRY BLOCK WALL, TYPE BW-1 SEE SCHEDULE, SHEET NO. S-3.01
8. - SLAB NOTES : SLAB TO BE 5" CONCRETE SLAB ON VAPOR BARRIER OVER WELL COMPACTED FILL, REINFORCED WITH 6x6-W1.4xW1.4 WELDED WIRE FABRIC PLACED 1" FROM THE TOP SEE DETAIL B/S-3.01 FOR TYPICAL CONTROL JOINT AT GROUND FLOOR SLABS.
9. - T.E. DENOTES 8"x12" THICKENED CONCRETE SLAB EDGE REINFORCED WITH 2-#5 BOTTOM CONTINUOUS TYPICAL AT ALL DISCONTINUOUS SLAB EDGES.
10. -FOUNDATIONS SIZES FOR PRE MANUFACTURED BUILDING TO BE CONFIRMED ONCE DELEGATED ENGINEERING SHOP DRAWINGS AND CALCULATIONS ARE SUBMITTED.

# CITY OF POMPANO BEACH GOLF COURSE SHELTER & RESTROOM RENOVATIONS

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KEY PLAN:

DRAWING TITLE:
GROUND & ROOF PLAN

| DRAWN: | CHECKED: |
|---|---|
| DATE: | DEC. 1, 2014 |

SUBMITTAL:
PERMIT SUBMITTAL

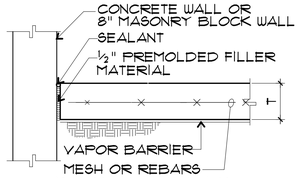
SHEET NUMBER:
S-2.01

# GENERAL STRUCTURAL NOTES

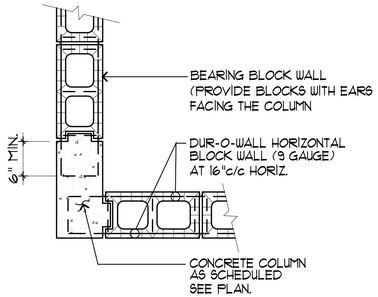
1. SITE AND SOIL PREPARATION:
   GENERAL CONTRACTOR MUST PERFORM THE SITE PREPARATION AND EXCAVATION WORK IN ACCORDANCE WITH THE RECOMMENDATIONS ON SOILS AND FOUNDATIONS INVESTIGATION PREPARED BY AN APPROVED TESTING LABORATORY PRIOR TO FOUNDATION WORK.
   A COPY OF THE SOIL REPORT SHOULD BE OBTAINED BY GENERAL CONTRACTOR FOR ANY ADDITIONAL INFORMATION PERTAINING THE FOUNDATIONS.
2. FOUNDATION ALLOWABLE SOIL BEARING PRESSURE:
   BASED ON SOIL BORINGS AND RECOMMENDATIONS MADE BY XXXXX , INC. THE FOUNDATIONS HAVE BEEN DESIGNED FOR A SOIL BEARING CAPACITY OF 3000 POUNDS PER SQUARE FOOT.
   CONTRACTOR TO OBTAIN A COPY OF THE GEOTECHNICAL REPORT DATED XXXXXXXXXXXXX AND FOLLOW THE INSTRUCTIONS INDICATED IN THE REPORT. SOIL PREPARATION IS TO BE MADE UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER.
   (AT ALL FOOTING INTERSECTIONS PROVIDE #5 BARS "L" SHAPE WITH 30" LEGS SPLICE CONT. FOOTING BARS 30 BAR DIAMETERS )
3. CONCRETE:
   ALL CONCRETE TO ATTAIN A MINIMUM ULTIMATE COMPRESSION STRENGTH OF:
   - 3000 P.S.I IN 28 DAYS FOOTINGS.
   - 4000 P.S.I IN 28 DAYS FOR ALL OTHER STRUCTURAL MEMBERS.
   AGGREGATES TO BE CLEAN AND WELL GRADED, MAXIMUM SIZE 1". CONCRETE SLUMP: 3" MIN. TO 5" MAX. VERTICAL CONCRETE DROP NOT TO EXCEED 8'.
4. CONCRETE COVER:

| TO BE AS FOLLOWS: | BOTTOM | TOP | SIDES |
|---|---|---|---|
| FOOTINGS | 3" | 2" | 3" |
| COLUMNS | - | - | 1.5" |
| BEAMS | 1.5" | 1.5" | 1.5" |

5. REINFORCING STEEL:
   TO BE NEW HIGH STRENGTH BILLET STEEL DEFORMED AS PER ASTM A-305, AND CONFORMING TO ASTM A-615: GRADE 60.
   LAP CONTINUOUS TOP BARS 30 BAR DIAMETERS AT MID-SPAN ONLY. LAP BOTTOM BARS 30 BAR DIAMETERS AT COLUMNS ONLY (SUPPORT), UNLESS OTHERWISE NOTED IN PLANS. HOOK DISCONTINUOUS ENDS OF ALL TOP BARS FOR STRUCTURAL BEAMS PROVIDE "L" BARS 24" X 24" FOR TOP AND BOTTOM BARS, AT ALL CORNERS OF ALL TIE BEAMS. REINFORCING STEEL TO BE DETAILED AND FABRICATED IN ACCORDANCE WITH "MANUAL OF STANDARD PRACTICE OF DETAILING REINFORCING CONCRETE STRUCTURES", AND THE A.C.I BUILDING CODE 318, LATEST EDITION.
   SUBMIT SHOP DRAWINGS FOR APPROVAL.
   EXTRA STOCK: THE CONTRACTOR SHALL INCLUDE IN HIS BASE BID THE COST OF 5000 LBS. OF ADDITIONAL REINFORCING STEEL, INCLUDING FABRICATION, BENDING, FURNISHING AND PLACING. THIS EXTRA STOCK SHALL BE FURNISHED AND USED FOR SPECIAL CONDITIONS AS DIRECTED BY THE ARCHITECT. THE ARCHITECTS AGENT, OR THE OWNERS CONSTRUCTION SUPERVISOR THE PRICE OF ALL UN-USED EXTRA STOCK BE CREDITED TO THE OWNERS ACCOUNT.
6. WELDING:
   ALL WELDING TO BE DONE BY CERTIFIED WELDERS HOLDING CURRENT WELDING CERTIFICATES, AND MUST PRESENT SAME AT JOB SITE AT ALL TIMES. ALL WELDING PER PLANS AND PER GUIDELINES OF THE AMERICAN WELDING SOCIETY.
   JOIST SHALL NOT BE FABRICATED USING ELECTRICAL RESISTANCE WELDING.
7. WIND DESIGN CRITERIA
   BUILDING HAS BEEN DESIGNED FOR WIND FORCES ACCORDING TO ASCE 7-10
   THE BASIC WIND VELOCITY WAS TAKEN AS 170 M.P.H.
   FOR EXPOSURE CATEGORY "C", RISK CATEGORY II
8. SHOP DRAWINGS:
   NO SHOP DRAWING SHALL BE SUBMITTED FOR ARCHITECT/ENGINEER'S REVIEW UNTIL AFTER THEY HAVE BEEN REVIEWED AND NOTED FOR CONSTRUCTION METHOD, DIMENSIONING, AND OTHER TRADE REQUIREMENTS BY THE CONTRACTOR, AND STAMPED WITH THE CONTRACTOR'S APPROVAL SEAL. ENGINEER ASSUMES NO THE LATEST AISC SPECIFICATIONS. ALL STEEL EXPOSED TO THE WEATHER SHALL BE GALVANIZED.
   REPONSIBILITY FOR DIMENSIONS, QUANTITIES, ERRORS OR OMISSIONS, AS A RESULT OF CHECKING AND REVIEWING ANY SHOP DRAWINGS. ANY ERRORS OR OMISSIONS MUST BE MADE GOOD BY CONTRACTOR, IRRESPECTIVE OF RECEIPT, CHECKING OR REVIEW OF DRAWINGS BY ENGINEER, AND EVEN THOUGH WORK IS DONE IN ACCORDANCE WITH SUCH SHOP DRAWINGS.
9. METAL STUDS:
   SHALL CONFORM TO THE AMERICAN IRON AND STEEL INSTITUTE (LATEST EDITION) AS FOR FABRICATION, ERECTION AND DETAILING.
   STEEL STUDS TO BE HOT DIPPED GALVANIZED, WITH G-90 GALVANIZING, AS PROVIDED BY DALE IND.
   PROVIDE Fy = 33 KSI MINIMUM YIELD STRESS FOR 18, 20, 22, AND 25 GAUGES. PROVIDE Fy = 50 KSI MINIMUM YIELD STRESS FOR 16, 14, AND 12 GAUGES. SUBMIT MILL REPORTS AND SHOP DRAWINGS FOR APPROVAL BEFORE FABRICATION.
10. GENERAL:
    IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, SPECIFICATIONS, OR OTHER DOCUMENTS, THE CONTRACTOR MUST NOTIFY THE ARCHITECT AND ENGINEER, IN WRITING, OF THE SAME PRIOR TO PROCEEDING WITH THE WORK IN QUESTION. IN THE EVENT THAT THE CONTRACTOR FAILS TO GIVE NOTICE, OR PROVIDE SUFFICIENT TIME FOR A RESPONSE, CONTRACTOR IS RESPONSIBLE FOR THE RESULTS OF SUCH ERRORS OR OMISSIONS, AND FOR ALL COSTS FOR RECTIFYING SAME AND FOR ANY DELAYS OR ANY OTHER COSTS INCURRED BY SAME.
    THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS TOGETHER WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS TO LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, REGLETS, BOLT SETTINGS, SLEEVES, DIMENSIONS, ETC...
    POTENTIAL CONFLICTS SHALL BE TRANSMITTED TO THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK. CONTRACTOR TO PROVIDE ADEQUATE TIME FOR RESPONSE FROM ARCHITECT/ENGINEER.




B DETAIL
S-3.01 NO SCALE




COLUMNS POURED AFTER MASONRY WALLS ARE CONSTRUCTED

A DETAIL
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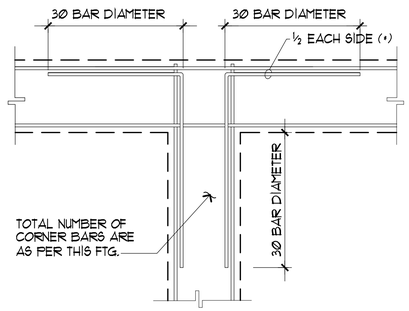


FOOTING CORNER BAR DETAILS AT "T" SECTION

C DETAIL
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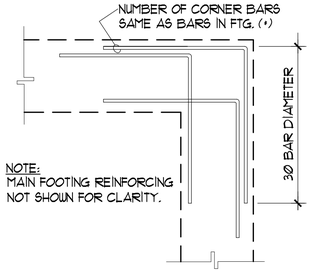
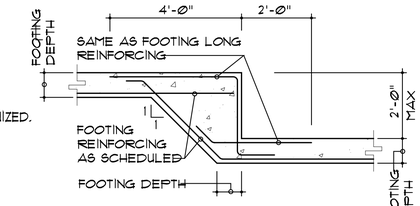



(+) WHEN FOOTING HAS MORE BARS, THE TOTEL OF CORNER BARS SHALL BE THE SAME AS THE NUMBER OF BARS IN THE LARGER FOOTING.

FOOTING CORNER BAR DETAILS AT "L" SECTION




TYPICAL STEPPED FOOTING DETAIL

D DETAIL
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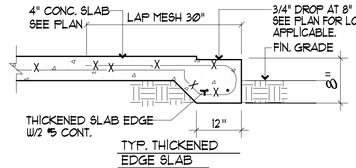


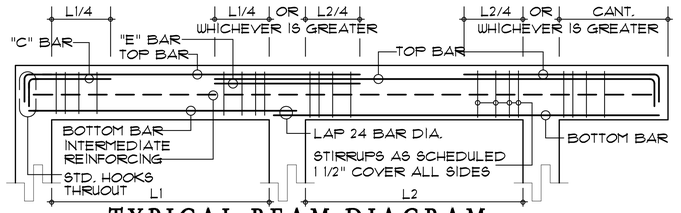

E DETAIL
S-3.01 NO SCALE

## FOOTING SCHEDULE

| MARK | SIZE | REINFORCEMENT | REMARKS |
|---|---|---|---|
| A | 6'-8"x9'-0"x2'-0" | 7#8 LONG BAR BOTT. 9#8 SHORT BAR BOTT. | |
| B | 6'-8"x9'-0"x2'-0" | 7#8 EACH WAY BOTT. | |
| | | | |
| WF-16M | 16"x10" | 2#5 CONT. | |
| | | | |

## STEEL COLUMN SCHEDULE

| MARK | STEEL COLUMN | | | REMARKS |
|---|---|---|---|---|
| | SIZE | BASE PLATE | CAP PLATE | |
| ST | | | | |




## TYPICAL BEAM DIAGRAM

NOTES:
1.- "C" BARS ARE TOP BARS AT NON-CONTINUOUS ENDS.
2.- "E" BARS ARE TOP BARS OVER RIGHT INTERIOR SUPPORTS.
3.- TOP BARS CALLED FOR AS CONTINUOS, WHEN SPLICED, SHALL BE SPLICED IN THE MIDDLE THIRD OF THE SPAN.
4.- REFER TO INTERMEDIATE BEAM REINFORCING FOR ADDITIONAL REINFORCING.
5.- PROVIDE AT ALL NON-BEARING BLOCK WALLS, A TIE-BEAM 8"x12" (MIN.)WITH 2-#5 TOP AND BOTTOM CONT., #3 TIES, 4 AT 12"c/c EACH END, BAL. AT 48"c/c TIE-BEAMS MUST BE DOWELED INTO WALLS AT EACH END, AT INTERSECTIONS, AT INTERMEDIATE POINTS.
6.- PROVIDE 2-#5 x5'-0" CORNER BARS (EXTEND 30" IN EACH DIRECTION FROM CORNER) AT ALL NON-BEARING BLOCK WALLS.

## BEAM SCHEDULE

EE- EACH END.
EC- EACH CORNER.
EB- EACH BENT.

| MARK | TOP OF BEAM ELEV. | SIZE (IN.) W x H | REINFORCING | | | | | STIRRUPS | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | B | T | C | E | L | No. | SPACING | |
| RTB-1 | +9'-0" | 8"x24" | 2#6(+) | 2#6(+) | | | | 3 | @12"c/c | (+) ADD 1#6 E.A. FACE MID-DEPTH ALL BARS CONT. , NO SPLICE. |
| RTB-2 | SLOPES | 8"x12" | 2#5 | 2#5 | | | | 3 | @48"c/c | |
| | | | | | | | | | | |
| | | | | | | | | | | |

## BLOCK WALL SCHEDULE

| MARK | THICKNESS | REINFORCEMENT | | REMARKS |
|---|---|---|---|---|
| | | VERTICAL | HORIZONTAL | |
| BW-1 | 8" | 1#6@32"c/c | DURO-WALL @ 16"c/c. | |

## COLUMN SCHEDULE

| MARK | SIZE | REINFORCEMENT | | REMARKS |
|---|---|---|---|---|
| | | VERTICAL BARS. | TIES | |
| TC1 | 8"x12" | 4#5 | #3@8"c/c. | |
| | | | | |

## WINDLOAD PRESSURE FOR WINDOWS, DOORS AND STORE FRONTS. (POUNDS PER SQUARE FOOT)

| AREA | ZONE 4 | | ZONE 5 | |
|---|---|---|---|---|
| | POSITIVE | NEGATIVE | POSITIVE | NEGATIVE |
| 10 ft.² | 50 | -53 | 50 | -63 |
| 15 ft.² | 49 | -52 | 49 | -61 |
| 25 ft.² | 48 | -51 | 48 | -58 |
| | | | | |

NOTES:
1.- ZONE (5) IS DEFINED AS ANY DOOR OR WINDOW WITHIN 3'-0" FROM ANY CORNER OF THE BUILDING. ALL OTHER LOCATIONS ARE DEFINED AS ZONE (4).
2.- VALUES INDICATED CAN BE INTERPOLATED.

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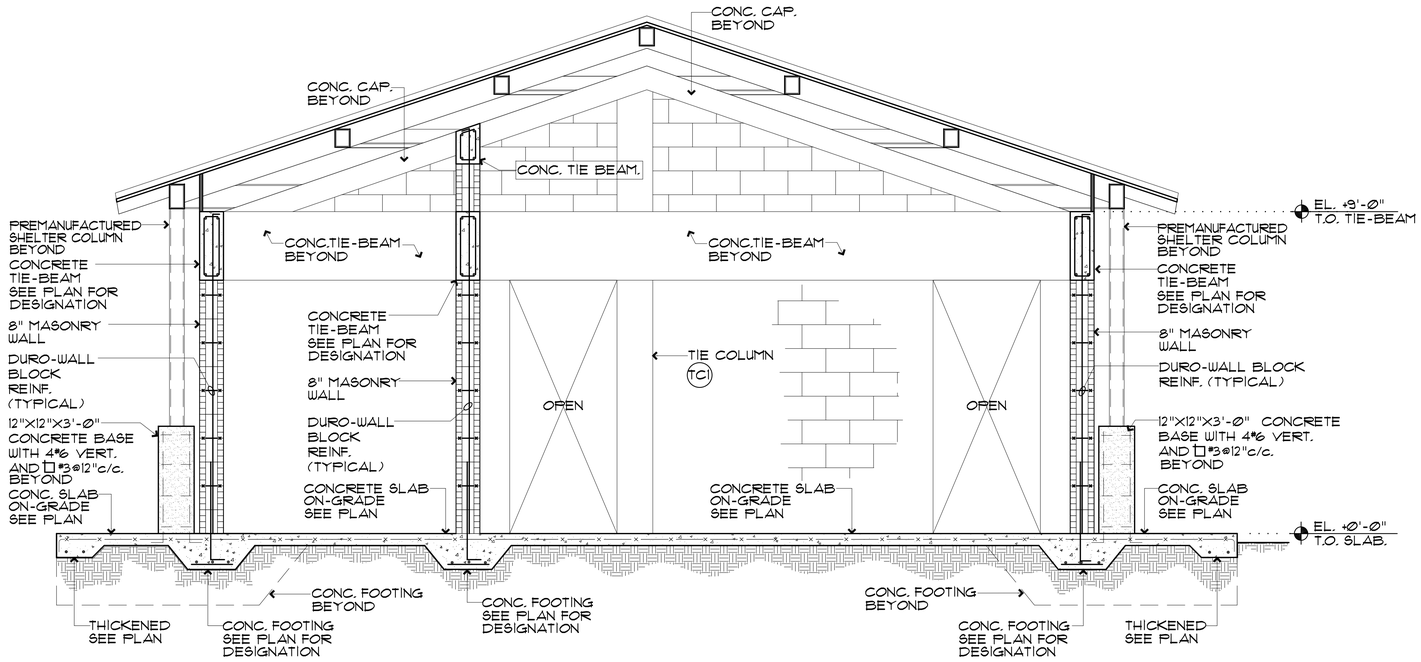
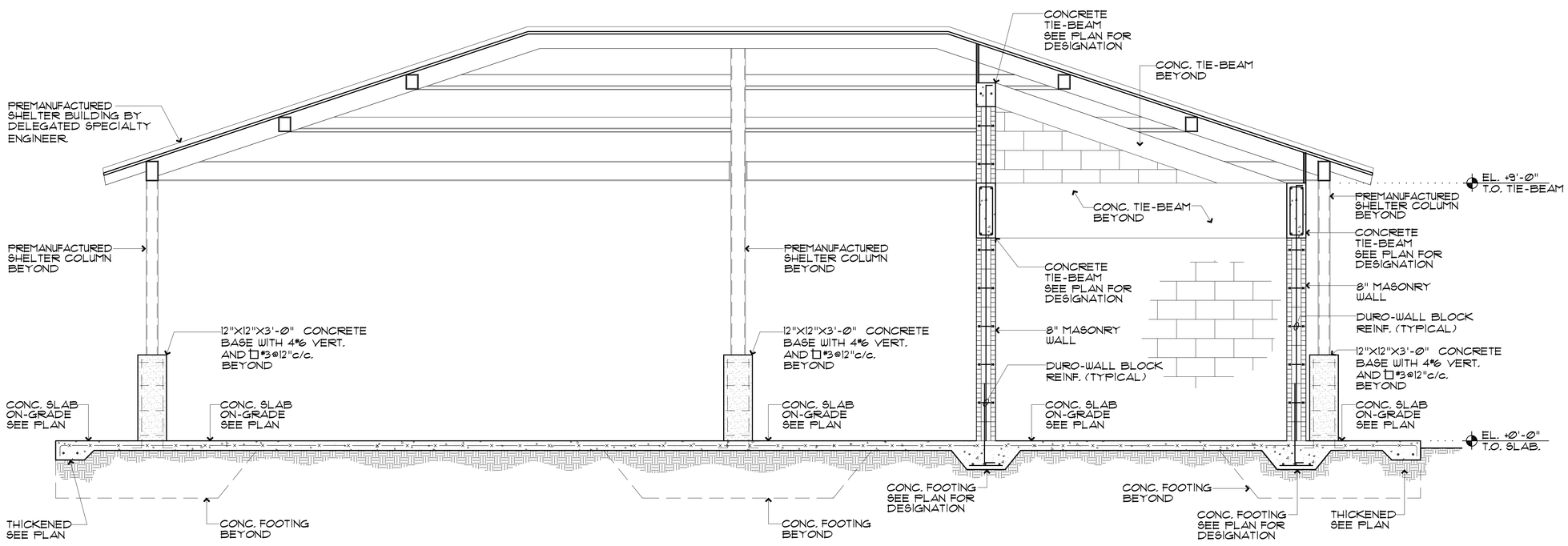



1 S-4.01 **SECTION**

SCALE: 1/2"=1'-Ø"




2 S-4.01 **SECTION**

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## PLUMBING LEGEND

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|---|---|---|---|---|---|
| | EXISTING HOT WATER LINE (HW) | | ARROW INDICATES DIRECTION OF PIPE PITCH DOWNWARD | | RISER ID. |
| | EXISTING COLD WATER LINE (CW) | | AIR CHAMBER | AD | AREA DRAIN |
| | NEW COLD WATER LINE (CW) | WHA | WATER HAMMER ARRESTOR | ABV. | ABOVE |
| CD | NEW CONDENSATE DRAIN LINE | | STUDER VENT | BLW | BELOW |
| CD | EXISTING CONDENSATE DRAIN LINE | | BALANCING VLV. W/ INDICATOR | CEIL., CLG. | CEILING |
| GW | GREASE WASTE (NEW) | | BALL VALVE | E.W.C. | ELECTRIC WATER COOLER |
| GW | EXISTING GREASE WASTE | | CHECK VALVE | E.W.H. | ELECTRIC WATER HEATER |
| | EXISTING HOT WATER RECIRCULATING LINE (HWR) | | GATE VALVE | FL. | FLOOR |
| | NEW HOT WATER LINE (HW) | | SOLENOID VALVE | F.U. | FIXTURE UNIT |
| | NEW HOT WATER RECIRCULATING LINE | | VALVE IN BOX | R.W.L. | RAIN WATER LEADER |
| | INDIRECT SAFE WASTE (IW) | | GATE VALVE IN VERTICAL | TP | TRAP PRIMER |
| | EXISTING SANITARY LINE (SAN) | VIV | HOSE BIBB | V.T.R. | VENT THRU ROOF |
| | NEW SANITARY WASTE LINE (SAN) | HB | UNION | VB | VACUUM BREAKER |
| | EXISTING VENT LINE (V) | | FLOOR DRAIN W/ TRAP RESEAL | WM | WASHING MACHINE |
| | SANITARY VENT LINE (V) | FD | FLOOR DRAIN | WH | WATER HEATER |
| SD | EXISTING STORM DRAIN LINE | FD | ROOF DRAIN | F.D.V. | FIRE DEPARTMENT VALVE |
| SD | NEW STORM DRAIN LINE | RD | FLOOR CLEAN OUT | WHA | WATER HAMMER ARRESTOR |
| F | FIRE LINE | FCO | WALL CLEAN OUT | ESOD | EMERGENCY OVERFLOW |
| SP | SPRINKLER LINE | WCO | "P" TRAP | SS | SERVICE SINK |
| F | FLOW SWITCH | | CONNECT TO EXISTING | WS | WASTE STACK |
| T | TAMPER SWITCH | | END OF DEMOLITION | OD | OVERFLOW DRAIN |
| | LINE TO BE DEMOLISHED / REMOVED | | | SF | SQUARE FEET |
| | | | | IW | INDIRECT WASTE |

NOTE: THIS IS A GENERAL LEGEND FOR SYMBOLS APPLICABLE TO THIS JOB, REFER TO PLANS

## GENERAL PLUMBING NOTES

1– ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE LATEST EDITION OF THE "FLORIDA BUILDING CODE – 2010 EDITION" AND ALL APPLICABLE LOCAL ORDINANCES.

2– BUILDING DRAINAGE SYSTEM DESIGN BASED ON 1/8"/FT MINIMUM FALL, FOR PIPING 3" & LARGER, A 1/4"/FT FALL FOR PIPING 2" & SMALLER.

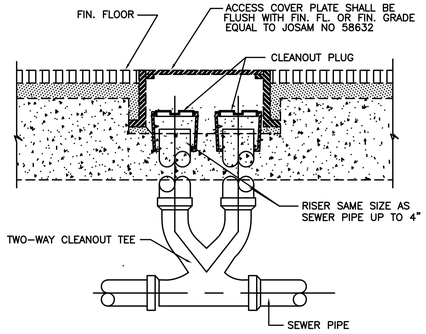
3– MATERIALS SHALL BE ALL NEW AND AS FOLLOWS:
- A) DRAINAGE PIPING – CAST IRON
- B) WATER PIPING – TYPE K COPPER (UNDERGROUND) TYPE L COPPER (ABOVE GROUND). PIPES COATED WITH ASPHALT.
- C) A/C CONDENSATE DRAIN – INSULATED COPPER
- D) PLUMBING FIXTURES – SEE INTERIOR DESIGN SPECS.
- E) FLOOR AND ROOF DRAINS, IF USED, JOSAM OR EQUAL.
- F) VALVES – 125PSI NIBCO SCOTT OR EQUAL.
- G) HOSE BIBBS – CHICAGO 952, OR EQUAL.
- H) ELECTRIC WATER COOLERS – HAWS, HALSEY TAYLOR, OR EQUAL.

4– PROVIDE ALL EXCAVATION, BACKFILL AND COMPACTION REQUIRED BY ALL PLUMBING WORK.

5– PERFORM THE FOLLOWING TESTS:
- A) WATER PIPING SHALL BE SUBJECTED TO HYDROSTATIC PRESSURE TEST OF 100PSIG FOR A PERIOD OF TIME SUFFICIENT TO EXAMINE ENTIRE SYSTEM BUT NOT LESS THAN ONE HOUR.
- B) DRAINAGE PIPING – BEFORE INSTALLATION OF ANY DRAINS, THE ENDS OF SYSTEM SHALL BE CAPPED AND ALL LINES FILLED WITH WATER TO HIGHEST POINT AND ALLOWED TO STAND UNTIL INSPECTION IS MADE AND WATER LEVEL REMAINS CONSTANT.
- C) CORRECT ALL DEFECTS DISCLOSED BY ABOVE TESTS.

6– COMPLETE SYSTEM, FIXTURES AND EQUIPMENT SHALL BE GIVEN AN IN–SERVICE TEST AFTER COMPLETION OF THE INSTALLATION.

7– PLUMBING CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE THAT ALL PLUMBING WORK SHALL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR, FROM DATE OF FINAL ACCEPTANCE, AND THAT HE WILL, AT HIS EXPENSE REPAIR AND REPLACE ALL WORK WHICH BECOMES DEFECTIVE DURING GUARANTEE PERIOD.




TWO–WAY CLEAN–OUT DETAIL
N.T.S.

## LEGEND, SYMBOLS AND ABBREVIATIONS

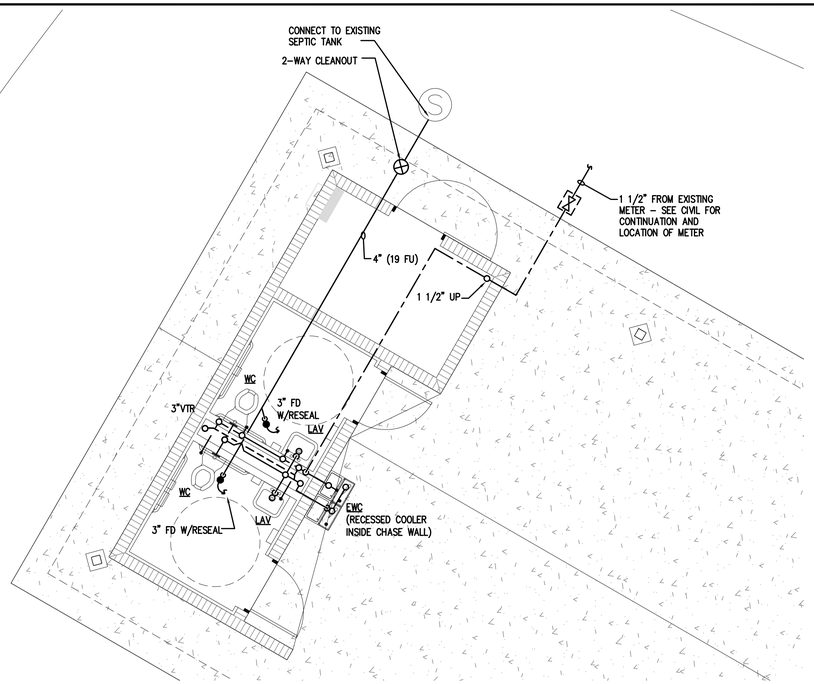
| | |
|---|---|
| | SANITARY WASTE LINE |
| | SANITARY VENT LINE |
| CD | A.C. CONDENSATE DRAIN LINE |
| PT | P & T RELIEF VALVE DRAIN LINE |
| | INDIRECT SAFEWASTE |
| G | GAS LINE (FUEL) |
| | COLD WATER LINE |
| | HOT WATER LINE |
| | CIRCULATING HOT WATER LINE |
| F | FIRE WATER LINE |
| GW | GREASE WASTE LINE |
| W | SITE WATER MAIN |
| FCO | FLUSH FLOOR CLEANOUT |
| CO | WALL CLEANOUT |
| | HOSE BIBB |
| | "P" TRAP |
| OR | GATE VALVE |
| OR | GATE VALVE IN VERTICAL LINE |
| | ELBOW DOWN |
| | ELBOW UP |
| | TEE DOWN |
| | TEE UP |
| | CHECK VALVE |
| | AIR CHAMBER |

| | |
|---|---|
| A/C | AIR CONDITIONING |
| AD | AREA DRAIN |
| AFC | ABOVE FINISHED CEILING |
| AHU | AIR HANDLING UNIT |
| BLDG | BUILDING |
| BS | BAR SINK |
| CB | CATCH BASIN |
| CD | A/C CONDENSATE DRAIN |
| CF | CUBIC FEET |
| CLG | CEILING |
| CO | CLEANOUT |
| COMB | COMBINATION |
| CONN | CONNECTION |
| CW | COLD WATER |
| DF | DRINKING FOUNTAIN |
| DW | DISHWASHER |
| DWG | DRAWING |
| ELEV | ELEVATION |
| EWC | ELECTRIC WATER COOLER |
| EWH | ELECTRIC WATER HEATER |
| FCO | FLUSH FLOOR CLEANOUT |
| FCU | FAN COIL UNIT |
| FE | FIRE EXTINGUISHER |
| FD | FLOOR DRAIN |
| FT.W | FEET OF WATER (PRESS) |
| FS | FLOOR SINK |
| FU | FIXTURE UNITS |

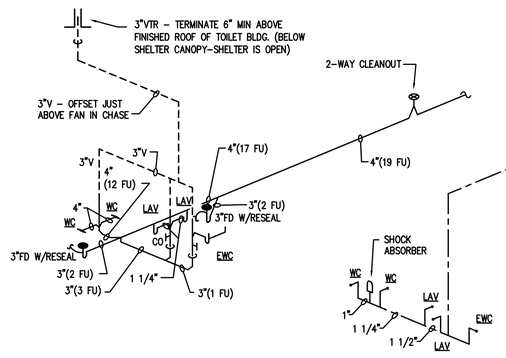
| | |
|---|---|
| G | GAS |
| GD | GARBAGE DISPOSAL |
| GPM | GALLONS PER MINUTE |
| GV | GATE VALVE |
| HB | HOSE BIBB |
| HS | HAND SINK |
| HOR | HORIZONTAL |
| HP | HORSEPOWER |
| HTG | HEATING |
| HW | HOT WATER |
| INV | INVERT |
| KS | KITCHEN SINK |
| KW | KILOWATTS |
| LAV | LAVATORY |
| MH | MANHOLE |
| NIC | NOT IN CONTRACT |
| PSI | POUND PER SQ. INCH |
| P&T | PRESSURE & TEMPERATURE |
| RD | ROOF DRAIN |
| RWL | RAIN WATER LEADER |
| SS | SERVICE SINK |
| ST | STORM WATER |
| SW | SAFEWASTE |
| SWR | SHOWER |
| TDH | TOTAL DYNAMIC HEAD |
| TUB | TUB WITH SHOWER |
| UG | UNDERGROUND |

| | |
|---|---|
| UR | URINAL |
| V | VENT |
| VS | VENT STACK |
| VTR | VENT THRU ROOF |
| W/ | WITH |
| WC | WATER CLOSET |
| WM | WASHING MACHINE |
| WS | WASTE STACK |
| SF | SQUARE FEET |
| WVS | WATER & VENT STACK |

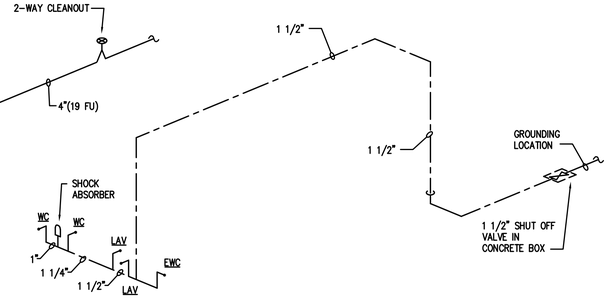
**NOTE:**
**NOT ALL SYMBOLS & ABBREVIATIONS ARE USED.**



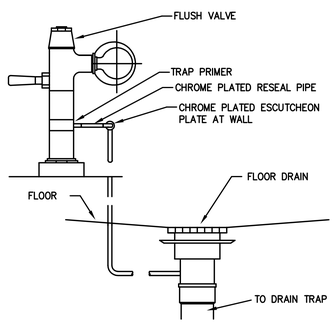

PLUMBING PROPOSED FLOOR PLAN
SCALE: 1/4"=1'-0"



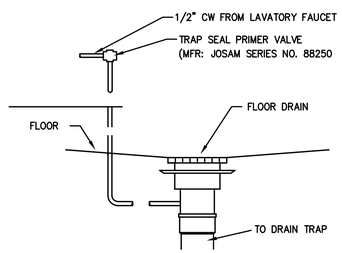

SANITARY RISER DIAGRAM
SCALE: NTS



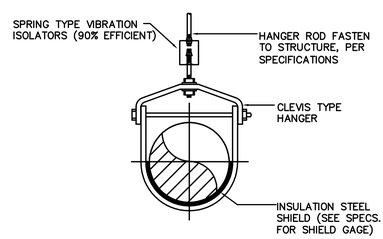

CW RISER DIAGRAM
SCALE: NTS




TRAP RESEAL DETAIL
N.T.S. (FROM URINAL FLUSH VALVE)




TRAP RESEAL DETAIL
N.T.S. (FROM LAVATORY FAUCET)




OVERHEAD PIPE SUPPORT
N.T.S.

# CITY OF POMPANO BEACH GOLF COURSE SHELTER & RESTROOM RENOVATIONS

pompano beach


ARCHITECT OF RECORD
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305-444-8210


| NO. | DESCRIPTION: | DATE: | NO. | DESCRIPTION: | DATE: |
|---|---|---|---|---|---|
| | | | | | |

SEAL & SIGNATURE:

IRENE F. FRAGA FL. REG. 19922
FRAGA ENGINEERS JOB No. 1433

KEY PLAN:

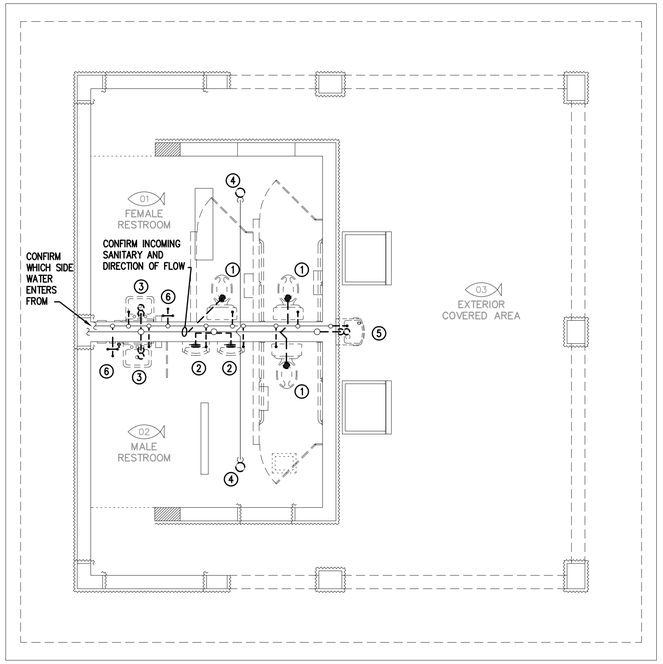
DRAWING TITLE:
PLUMBING FLOOR PLAN

DRAWN: | CHECKED:

DATE: DEC. 1, 2014

SUBMITTAL:
PERMIT SUBMITTAL

SHEET NUMBER:
P-1.00

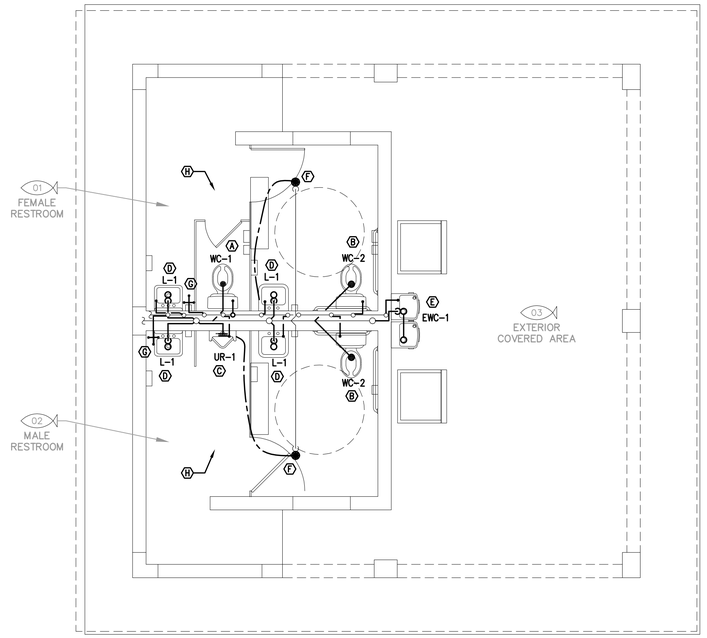



## DEMILITION NOTES

1. REMOVE TOILET AND ALL ASSOCIATED WASTE, WATER.
2. REMOVE URINAL AND ALL ASSOCIATED WASTE ARM, FLUSH VALVE AND WATER.
3. REMOVE LAVATORY, SUPPORTS, WATER STOP, WASTE ARM AND ANY OTHER ASSOCIATED ITEMS.
4. REMOVE FLOOR DRAIN GRATE.
5. REMOVE EWC AND ASSOCIATED WASTE ARM AND WATER CONNECTION.
6. REMOVE HOSE BIBB.

## PALMS RESTROOM - PLUMBING DEMOLITION FLOOR PLAN

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




## NEW WORK NOTES

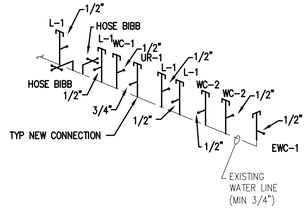
- (A) NEW TOILET WC-1 WITH NEW SANITARY CONNECTION AND WATER CONNECTION
- (B) NEW HC TOILET WC-2 WITH NEW SANITARY CONNECTION AND WATER CONNECTION
- (C) NEW URINAL UR-1 WITH NEW SUPPORT, FLUSH VALVE, WASTE ARM AND CW CONNECTION
- (D) NEW LAVATORY L-1 WITH NEW 1 1/4" WASTE ARM WITH P-TRAP TIED TO EXISTING STACK, NEW SUPPORTS, NEW CW STOP AND NEW CW CONNECTION.
- (E) NEW HI-LO EWC-1 WITH NEW CW STOP AND CONNECTION AND NEW WASTE ARM AND P-TRAP TIED TO EXISTING STACK.
- (F) PROVIDE NEW SATIN NIKALOY FLOOR DRAIN GRATE. ALSO PROVIDE NEW AUTO DRIP RESEAL FROM EITHER LAVATORY FAUCET OR URINAL FLUSH VALVE.
- (G) PROVIDE NEW VANDAL PROOF HOSE BIBB WITH VACUUM BREAKER AND SHUT OFF VALVE.
- (H) IF ANY WATER PIPING IS GALVANIZED PROVIDE DIELECTRIC FITTINGS AT ALL NEW CONNECTIONS (GENERAL-ALL)

## PLUMBING FIXTURES SPECS

1. WC-1 WATER CLOSET: TANK TYPE AMERICAN STANDARD STUDIO CADET – ELONGATED 2588.101 COMPLETE WITH TANK. PROVIDE BOLT CAPS, OPEN FRONT SEAT AND COVER 1.28 GPF
2. WC-2 WATER CLOSET HC: TANK TYPE AMERICAN STANDARD CADET PRO – ELONGATED 215AA.104 COMPLETE WITH TANK. PROVIDE BOLT CAPS, OPEN FRONT SEAT AND COVER. 1.28 GPF
3. UR-1 URINAL (SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT) – AMERICAN STANDARD WASHBROOK HEU 0.5 GPF 6590.001.020 WITH CARRIER AND FLUSH VALVE MODEL 6045.051.022
4. L-1 LAVATORY (SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT) – AMERICAN STANDARD LUCERNE 0356.115 ADA LAVATORY WITH CONCEALED ARMS AND MOUNTING BRACKET BOLTED TO FLOOR. PROVIDE SELF CLOSING METERING FAUCET 1340.119 0.5 GPM AND IN COMPLIANCE WITH ADA. PROVIDE GRID DRAIN AND P-TRAP FLUSH TO BACK WALL. IF NECESSARY DUE TO INSTALLATION PROVIDE TRAP GUARD.
5. EWC-1 ELECTRIC WATER COOLER – HAWS HI-LO COOLER ALL STAINLESS STEEL CONSTRUCTION – MODEL HWUACPBL. WITH WALL SUPPORT

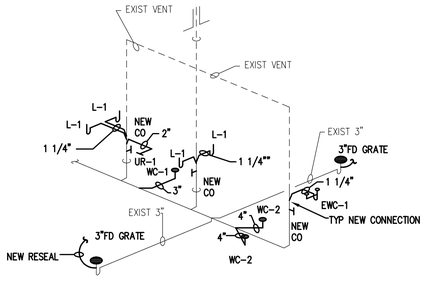
## PALMS RESTROOM - PLUMBING PROPOSED FLOOR PLAN

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




## CW RISER DIAGRAM

SCALE: NTS




## SANITARY RISER DIAGRAM

SCALE: NTS

## NOTES:

1. EXIST FU = 27
   REMODELLED FU = 25
2. CAP ALL UNUSED LINE OPENINGS OR STACK OPENINGS.

# CITY OF POMPANO BEACH GOLF COURSE SHELTER & RESTROOM RENOVATIONS

pompano beach

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| NO: | DESCRIPTION: | DATE: | NO: | DESCRIPTION: | DATE: |
|---|---|---|---|---|---|
| 1 | PRE-DRC MTG | 8-25-14 | | | |

SEAL & SIGNATURE:

ROLANDO SILVA FL AR-7202

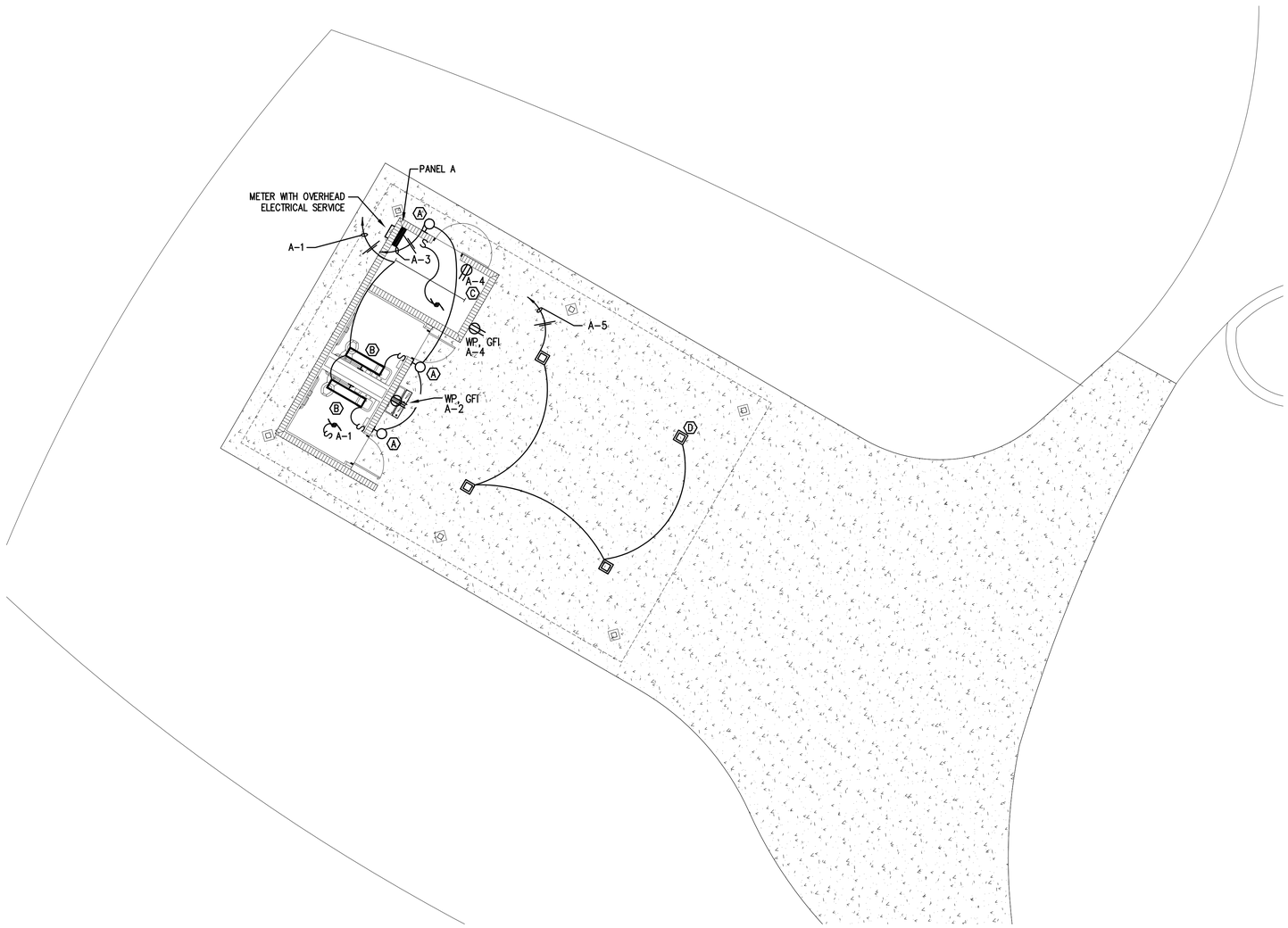
KEY PLAN:

DRAWING TITLE:
PALMS PLUMBING FLOOR PLANS

| DRAWN: | CHECKED: |
|---|---|
| DATE: | DEC. 1, 2014 |

SUBMITTAL:
PERMIT SUBMITTAL

SHEET NUMBER:
P-2.00




## ELECTRICAL FLOOR PLAN

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

LITHONIA LIGHTING®

| Catalog Number | |
|---|---|
| Notes | Type |

### FEATURES & SPECIFICATIONS

**INTENDED USE**

For entrances, stairwells, corridors and other pedestrian areas.

**CONSTRUCTION**

Cast aluminum backplate. Gasketing between backplate and front cover prevents the entry of water and contaminants. External hardware includes phillips head and tamper-proof hex-head fasteners.

**FINISH**

Dark bronze (DDB) or white (DWH) front cover available for all wattages.

**OPTICAL SYSTEM**

Front cover/reflector is injection-molded, one-piece, UV-stabilized polycarbonate. The optical system is sealed and gasketed to inhibit the entrance of outside contaminants.

**ELECTRICAL SYSTEM**

The 13W fluorescent uses a 120V electro-magnetic ballast and includes a twin tube fluorescent lamp as standard. The 26/42W fluorescent uses a multi-volt electronic ballast and offers the option of 120-277V operation and also the option of 26W, 32W or 42W triple tube fluorescent lamp (not included).

**INSTALLATION**

Units are for wall mounting and include two 3/4" knockouts for routing electrical conduit.

**LISTING**

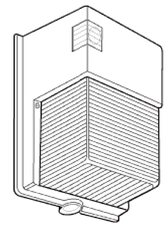
UL listed for wet locations. Listed and labeled to comply with Canadian Standards.

**Small Polycarbonate Wall Pack**

# TWS

**COMPACT FLUORESCENT**

13TT
26TRT, 32TRT, 42TRT
8' to 12' Mounting



*Specifications*

Height: 11" (27.9cm)
Width: 6-1/2" (16.5cm)
Depth: 5-1/4" (13.3cm)
Weight: 3.3 lbs./1.5 kgs

### ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.
Example: TWS 13TT 120 PE LPI

| TWS | 26TRT | MVOLT | DWH |
|---|---|---|---|
| Series | Wattage/lamp | Voltage | Options |
| TWS | 13TT One 13W twin-tube lamp<br>26TRT One 26W 4-pin tri-tube lamp[1]<br>32TRT One 32W 4-pin tri-tube lamp[1]<br>42TRT One 42W 4-pin tri-tube lamp[1] | 120<br>MVOLT[2] | *Shipped installed in fixture*<br>PE Photoelectric cell as standard (N/A with MVOLT)<br>LPI Lamp included as standard for 13TT only<br>L/LP Less lamp standard for 26/42TRT<br>*Architectural colors (optional)*<br>(blank) Dark bronze<br>DWH White |

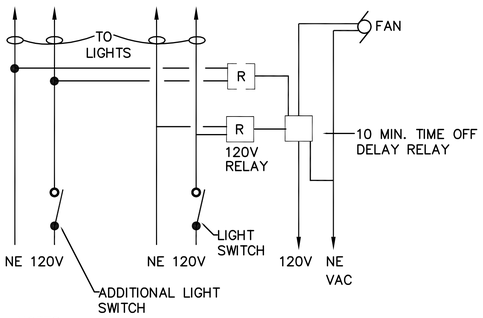
NOTES:
1 Ships as 26/42 TRT. Operates 26-42 watt as standard based on lamp choice.
2 Not available with 13TT.

*Accessories*

Order as separate catalog number
RK1 PEB1 Photocell kit (120V only)
TWSWG Wireguard

## LIGHTING FIXTURE SCHEDULE

| TYPE | DESCRIPTION | MOUNTING | LAMP | MANUFACTURER | CATALOG. NO. | REMARKS |
|---|---|---|---|---|---|---|
| Ⓐ | WALL PACK | SURFACE | 1F26TRT | LITHONIA | TWS-26TRT-MVOLT-DWH | DAMP LOC. |
| Ⓑ | LENSED STRIP | SURFACE | 2F32T8 | LITHONIA | WC-232-MVOLT-GEB10IS | |
| Ⓒ | 4' STRIP | SURFACE | 2F32T8 | LITHONIA | C232-MVOLT-GEB10IS -WGCUN | |
| Ⓓ | SECURITY LIGHT | SURFACE | 1F42TRT | LITHONIA | VR4-42TRT-MVOLT | DAMP LOC. |



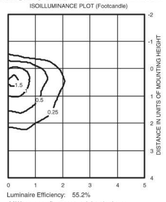

NOTES:
① SWITCH WITH LIGHTS VIA TIME DELAY RELAY
② FOR INDIVIDUAL TOILETS

## TOILET EXHAUST FAN CONTROL

N.T.S.

**TWS** Fluorescent Wall-Pak

**TWS 26TRT** TEST NO: LTL12664P
(ISOILLUMINANCE PLOT (Footcandle))




Luminaire Efficiency: 55.2%
26W compact fluorescent triple tube lamp.
Footcandle values based on 8' mounting height, 1800 rated lumens.

**Electrical Characteristics**

| Wattage/ballast | Primary voltage | Maximum line current (amps) | Input watts | Power factor(%) | |
|---|---|---|---|---|---|
| Fluorescent 1-13TT | 120 | 0.41 | 17 | NPF | NPF |
| Fluorescent 1-26TRT | 120<br>277 | .22<br>.09 | 26 | HPF | |
| Fluorescent 1-32TRT | 120<br>277 | .30<br>.13 | 36 | HPF | |
| Fluorescent 1-42TRT | 120<br>277 | .39<br>.17 | 47 | HPF | |

Tested to current IES and NEMA standards under stabilized laboratory conditions. Various operating factors can cause differences between laboratory data and actual field measurements. Dimensions and specifications on this sheet are based on the most current available data and are subject to change without notice.

**Mounting Height Correction Factor**
(Multiply the fc level by the correction factor)

10 ft. = 0.64
12 ft. = 0.44

**TYPE:** SQUARE D "NQ"
**MOUNTING:** SURFACE
**MAIN:** 60 A

## PANEL A

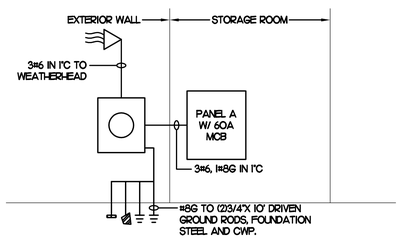
30K AIC

**VOLTS:** 120/240V-1ø-3W
**BUS:** 60 A
**LOAD:** 8 A

| LOAD DEM. | LOAD NO DEM. | POLE | TRIP | COND. | WIRE | DESCRIPTION | CKT. A # | CKT. B # | DESCRIPTION | WIRE | COND. | TRIP | POLE | LOAD NO DEM. | LOAD DEM. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 392 | 1 | 20 | 1/2" | #12 | LIGHTING | 1 | 2 | EWC | #12 | 1/2" | 20 | 1 | 360 | |
| | 356 | 1 | 20 | 1/2" | #12 | WALL PACKS ① | 3 | 4 | RECEPTACLE | #12 | 1/2" | 20 | 1 | 360 | |
| | 368 | 1 | 20 | 1/2" | #12 | SECURITY LIGHTING② | 5 | 6 | SPARE | – | – | 20 | 1 | | |
| | | – | – | – | – | SPACE | 7 | 8 | SPACE | – | – | – | – | | |
| | | – | – | – | – | SPACE | 9 | 10 | SPACE | – | – | – | – | | |
| | | – | – | – | – | SPACE | 11 | 12 | SPACE | – | – | – | – | | |

0 VA : TOTAL DEMAND LOAD
1,836 VA : TOTAL NO DEMAND
1,836 VA : PANEL TOTAL

① THRU CONTACTOR & PHOTOCELL
② THRU CONTACTOR & TIMER




## POWER RISER DIAGRAM

SCALE : NTS

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| NO. | DESCRIPTION: | DATE: | NO. | DESCRIPTION: | DATE: |
|---|---|---|---|---|---|
| | | | | | |

SEAL & SIGNATURE:

IRENE F. FRAGA FL. REG. 19922
FRAGA ENGINEERS JOB No. 1433

KEY PLAN:

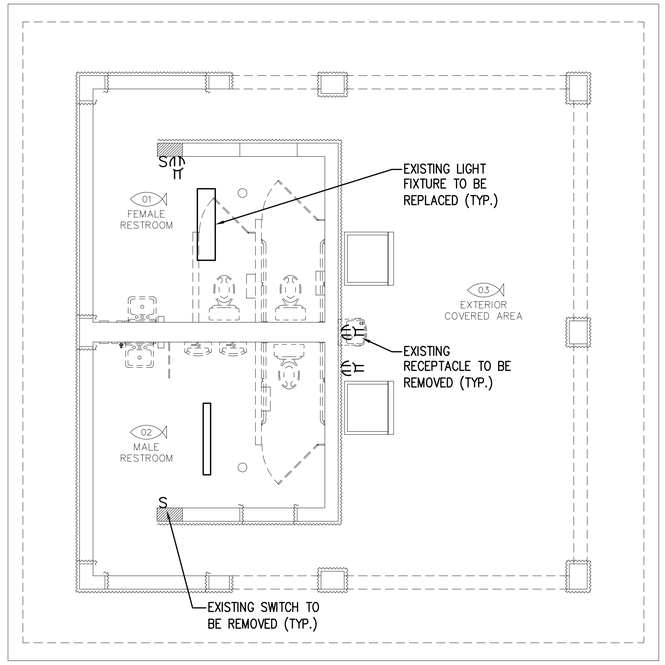
DRAWING TITLE:
ELECTRICAL FLOOR PLAN

DRAWN: | CHECKED:

DATE: DEC. 1, 2014

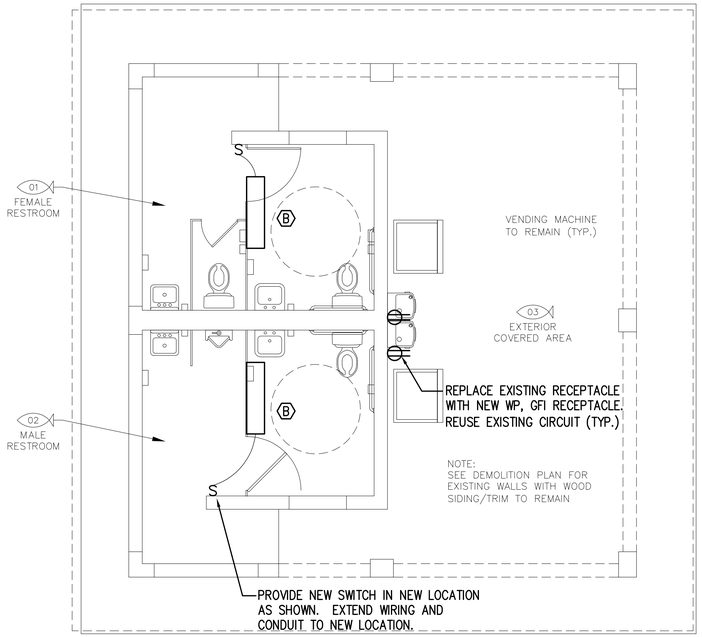
SUBMITTAL:
PERMIT SUBMITTAL

SHEET NUMBER:
E-1.00




## PALMS RESTROOM - ELECTRICAL DEMOLITION FLOOR PLAN

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




## PALMS RESTROOM - ELECTRICAL PROPOSED FLOOR PLAN

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

GENERAL DEMOLITION NOTES:

1. WHERE ELECTRIC LIGHTING FIXTURES, SWITCHES, RECEPTACLES, BOXES, CABINETS, DEVICES, ETC. ARE TO BE REMOVED, AND BOXES AND CONDUITS ARE TO REMAIN, ALL CONDUCTORS SHALL BE DE-ENERGIZED, DISCONNECTED AT BOTH ENDS, REVERSED INTO THE BOX, AND THE BOX PLUGGED WITH CEMENT PLASTER OR OTHER APPROVED MATERIAL AND THE WALL, FLOOR, CEILING AND THE LIKE, RESTORED TO MATCH THE SURROUNDING FINISH TO THE SATISFACTION OF THE OWNER. WHERE ANY MECHANICAL ITEMS ARE TO BE REMOVED, ALL ABOVE FINISHES ARE TO BE RESTORED.
2. WHERE ELECTRICAL FIXTURES, SWITCHES, OUTLETS, RECEPTACLES, BOXES, CABINETS, DEVICES, ETC. ARE TO BE REMOVED, AND THEIR REMOVAL AFFECTS THE OPERATION OF ANY EQUIPMENT, FIXTURE, RECEPTACLES, ETC. THAT IS TO REMAIN (INCLUDING ITEMS THAT MAY NOT BE SHOWN IN THE DRAWINGS BUT ARE PRESENTLY EXISTING IN PLACE) THE CONTRACTOR SHALL RECIRCUIT THEM (INCLUDING BOXES, CONDUIT, WIRES, ETC.) TO RESTORE THEM TO THE ORIGINAL OPERATING CONDITION, ALL AT NO ADDITIONAL COST TO THE OWNER.
3. UNUSED OPENINGS IN BOXES, CABINETS, PANEL BOARDS, ROOFS, ETC., WHERE SOMETHING IS REMOVED OR PREVIOUSLY EXISTED-SHALL BE PLUGGED OR BLANKED OUT BY APPROVED METHODS, IF THE--OPENING IS TO REMAIN.
4. ALL EXPOSED CONDUIT, WIRES, OUTLETS, ETC. NOT TO BE REUSED IN THE NEW REMODELED LAYOUT, SHALL BE REMOVED.
5. EXISTING PIPE OR CONDUIT RUNS, STUBBING UP THRU FLOORS, IN AREAS WHERE WALLS ARE TO BE REMOVED, SHALL HAVE THEIR CONDUCTORS DE-ENERGIZED AND REMOVED, CONDUIT CUT-OFF GROUND FLUSH WITH FLOOR AND PLUGGED WITH CEMENT MORTAR OR ANY OTHER APPROVED MATERIAL THE SAME APPLIES WITH EXISTING CONDUITS OR PIPES THAT ARE STUBBED OUT OF WALLS AND FLOORS.
6. WHERE PRACTICAL, EXISTING CONDUCTORS AND WIRES THAT ARE IN GOOD CONDITION, MAY BE REUSED IN PLACE AND INCORPORATED IN THE NEW REMODELED LAYOUT, PROVIDED IT IS OF PROPER SIZE, TYPE OF CONDUCTOR AND WITH THE APPROVAL OF THE OWNER.
7. ABANDONED CIRCUIT CONDUCTORS IN PANELBOARDS, SHALL BE DISCONNECTED, TAPED AND IDENTIFIED.
8. SALVAGED ITEMS SHALL BE RETURNED TO THE OWNER, AND DELIVERED WHERE DIRECTED BY HIM. ITEMS AND MATERIALS CONSIDERED UNSALVAGEABLE BY THE OWNER, SHALL BE DISPOSED OF AS DIRECTED BY THE OWNER. REMOVED WALL SWITCHES, DIFFUSERS, RECEPTACLES AND LIGHTING OR PLUMBING FIXTURES SHALL NOT BE REUSED IN NEW CONSTRUCTION.
9. ALL ROOF OPENINGS OR WALL OPENINGS WHERE MECHANICAL OR ELECTRICAL DEVICES OR OTHER ITEMS ARE TO BE REMOVED SHALL BE RESTORED AND FINISHED TO A FINAL FINISH, AND WATER PROOFED.

GENERAL ELECTRICAL NOTES

1.0 BEFORE BIDDING CONTRACTOR SHALL VISIT THE JOB SITE AND ASCERTAIN ALL EXISTING CONDITIONS WILL AFFECT HIS WORK. FAILURE TO DO SO WILL NOT BE ACCEPTED AS A REASON FOR REQUESTING EXTRA PAY WHERE THE EXISTING CONDITIONS RESULT IN AN EXTRA MATERIAL OR LABOR.

2.0 ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE STANDARD BUILDING CODE, THE D.O.E. RETROFIT FOR TECHNOLOGY PROGRAM GUIDELINES AND ALSO COMPLY WITH THE LATEST EDITION OF THE N.E.C., A.D.A., NFPA, NEMA, OSHA, AND OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES AND PERTAINING REGULATIONS ESTABLISHED BY RULING AUTHORITIES HAVING JURISDICTION.

3.0 ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR. WORK SHALL BE DONE IN A FIRST CLASS MANNER AND SHALL BE COMPLETE AND FULLY OPERATIVE TO THE ACCEPTANCE OF THE OWNER AND ARCHITECT/ENGINEER.

4.0 DRAWINGS ARE GENERALLY DIAGRAMMATIC, INTENDED TO SHOW APPROXIMATE EQUIPMENT LOCATIONS AND ARRANGEMENT, NOT TO SHOW EVERY DETAIL.

5.0 GENERAL NOTES APPLY TO ALL DRAWINGS. REFER TO INDIVIDUAL DRAWINGS FOR ADDITIONAL NOTES.

6.0 CONTRACTOR SHALL PROVIDE ALL THE NECESSARY LABOR AND MATERIALS REQUIRED FOR THE COMPLETION OF THE WORK. ALL MATERIAL SHALL BE NEW AND U.L. APPROVED, UNLESS OTHERWISE NOTED AS EXISTING TO REMAIN OR BE RELOCATED.

7.0 ELECTRICAL TRADE IS RESPONSIBLE FOR THE ELECTRICAL CONNECTION OF ALL EQUIPMENT INCLUDING THOSE SUPPLIED BY OTHERS. CONTROL WIRING FOR EQUIPMENT SHALL BE COORDINATED WITH EQUIPMENT SUPPLIER.

8.0 CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF OTHER TRADES SO THAT INTERFERENCES WITH EXISTING CONDITIONS, CONDUITS, PIPING, EQUIPMENT, ARCHITECTURAL, STRUCTURAL MEMBERS WILL BE AVOIDED.

9.0 WHERE PRESENT WORK IS DAMAGED IN THE EXECUTION OF THIS CONTRACT, OR WHERE OPENINGS ARE LEFT DUE TO REMOVAL OF EQUIPMENT, RACEWAY, ETC., THE SAME SHALL BE REPAIRED TO CORRESPOND IN MATERIAL, AND FINISH WITH THAT OF SIMILAR AND ADJOINING WORK.

10. UNLESS OTHERWISE NOTED, MINIMUM POWER BRANCH CIRCUIT WIRE SHALL BE #12 AWG. CONDUCTORS SHALL BE COPPER WITH TYPE THW INSULATION.

11. PROVIDE EQUIPMENT GROUND CONDUCTOR IN ALL NEW BRANCH CIRCUIT. INSTALLATION.

12. WORK SHALL INCLUDE THE REMOVAL AND DISPOSAL OF ALL DEBRIS AND THOROUGH CLEANING OF THE PREMISES UPON COMPLETION OF THE WORK AS DIRECTED BY ARCHITECT/OWNER.

13. ALL NEW LIGHTING/POWER PANELS SHALL BE PROVIDED WITH PANEL DIRECTORY CLEARLY LISTING ALL CIRCUITS USED IN THE PANEL.

# CITY OF POMPANO BEACH GOLF COURSE SHELTER & RESTROOM RENOVATIONS

pompano beach

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305-444-8210

| NO: | DESCRIPTION: | DATE: | NO: | DESCRIPTION: | DATE: |
|---|---|---|---|---|---|
| | | | | | |

SEAL & SIGNATURE:

ROLANDO SILVA FL AR-7202

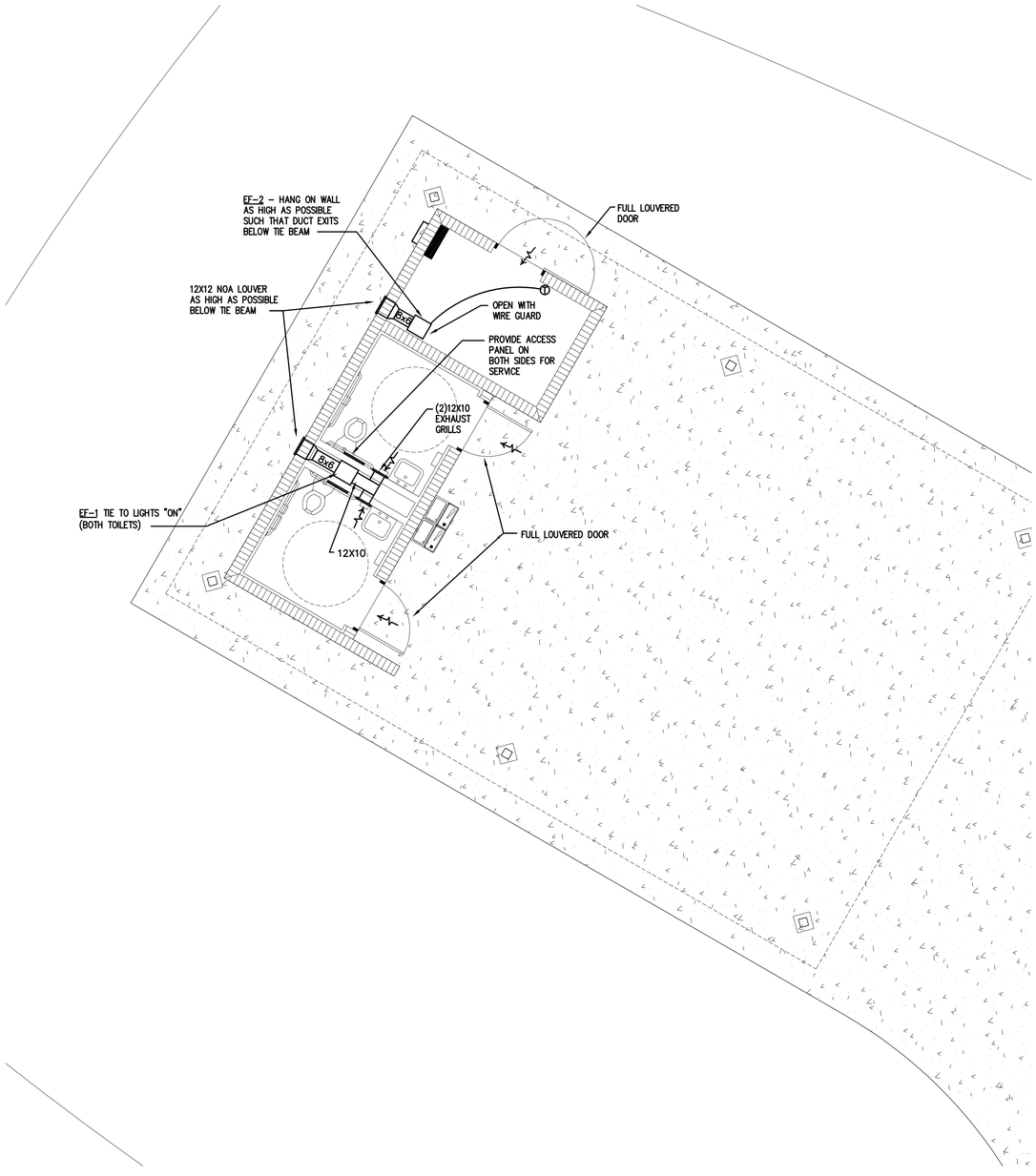
KEY PLAN:

DRAWING TITLE:
**PALMS ELECTRICAL FLOOR PLANS**

| DRAWN: | CHECKED: |
|---|---|
| DATE: | DEC. 1, 2014 |

SUBMITTAL:
**PERMIT SUBMITTAL**

SHEET NUMBER:
**E-2.00**




# AIR CONDITIONING NOTES

1.0 GENERAL

1.1 PROVIDE (FURNISH & INSTALL) ALL NECESSARY MATERIALS AND LABOR FOR A COMPLETELY OPERATIONAL AIR CONDITIONING, HEATING AND VENTILATING SYSTEM AS SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED. INSTALL IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, ASHRAE, SMACNA, NFPA AND LOCAL ORDINANCES.

1.2 SCOPE OF WORK :

PROVIDE THE FOLLOWING COMPLETE SYSTEMS :

A. SUPPLY AND RETURN DUCT SYSTEM.

B. EXHAUST SYSTEM FOR BATHROOMS AND STORAGE.

1.3 PAY FOR ALL FEES, INSPECTIONS AND CONNECTION CHARGES REQUIRED.

1.4 VERIFY AT JOB SITE ALL SPACE CONDITIONS, DIMENSIONS AND EQUIPMENT SIZES PRIOR TO DUCT FABRICATION OR INSTALLATION. COODINATE REQUIREMENTS TO AVOID INTERFERENCE WITH OTHER TRADES.

1.5 SUBMIT SHOP DRAWINGS FOR ARCHITECT/ENGINEER APPROVAL BEFORE PROCEEDING WITH THE PURCHASE OR INSTALLATION OF EQUIPMENT AND MATERIALS.

1.6 GUARANTEE ALL WORK FREE OF DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE.

2.0 MATERIALS

2.1 DUCTWORK

2.1.1 GENERAL. ALL DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.

2.1.2 MATERIAL. SHEET METAL PER SMACNA.

2.1.3 PROVIDE DOUBLE THICKNESS TURNING VANES AT ALL SQUARE ELBOWS. WHERE THE ELBOWS ARE RECTANGULAR, INSTALL SINGLE THICKNESS VANES INSTEAD.

2.1.4 PROVIDE VOLUME EXTRACTORS BEHIND EACH SUPPLY OUTLET AND AT EACH DUCT BRANCH.

2.2 AIR DISTRIBUTION PRODUCTS :

2.2.1 PROVIDE EXHAUST GRILLES AS INDICATED ON THE DRAWINGS.

2.2.2 PROVIDE EXTRUDED ALL ALUMINUM AIR DISTRIBUTION PRODUCTS, COLOR: WHITE.

2.2.3 PROVIDE FINISHES AND TYPES OF MOUNTS IN COORDINATION WITH THE FINISH TYPES AS SHOWN ON THE ARCHITECTURAL DRAWINGS.

2.2.4 PROVIDE OPPOSED BLADE, KEY OPERATED DAMPERS BEHIND ALL AIR SUPPLY OUTLETS.

3.0 INSTALLATION

3.1 INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION MANUALS AND RECOMMENDATIONS, PAYING SPECIAL ATTENTION REQUIRED CLEARANCES FOR INSTALLATION, OPERATION AND SERVICE.

3.2 BALANCE ALL SYSTEMS TO PROVIDE AIR QUANTITIES AND CAPACITIES INDICATED ON DRAWINGS. SUBMIT FINAL TEST AND BALANCE REPORT TO ARCHITECT/ENGINEER FOR ACCEPTANCE.

## VENTILATION FAN SCHEDULE

| | |
|---|---|
| FAN NUMBER | EF-1,2 |
| LOCATION | INLINE |
| TOTAL AIR C.F.M. | 198 |
| TOTAL S.P. (INCHES OF WATER) | .125 |
| DESIGN, R.P.M. | 1400 |
| DESIGN, WATTS | 100 W |
| TYPE OF DRIVE | DIRECT |
| DESIGN MANUFACTURER | GREENHECK |
| DESIGN MODEL NUMBER | CSP-A190 |

NOTES:
1. ALL FANS PROVIDED WITH BACKDRAFT DAMPER, BIRDSCREEN, SAFETY DISCONNECT SWITCH AND FIRESTAT
2. ALL FANS TO BE NATURALLY ANODIZED ALUMINUM.
3. ALL ROOF FANS PROVIDED WITH PREFABRICATED GALVANIZED STEEL CURB WITH 2" OF FIBERGLASS THERMAL AND ACOUSTICAL INSULATION, SUPPLIED BY FAN MANUFACTURER.
4. SEE ELECTRICAL DWGS. FOR OPERATING POWER OF EACH FAN.
5. THE CONTRACTOR SHALL ADJUST THE FAN DRIVE AS REQUIRED TO DELIVER THE SPECIFIED CFM AGAINST THE STATIC PRESSURE OF SYSTEM AS ACTUALLY INSTALLED. PROVIDE SPEED CONTROLLER FOR ALL DIRECT DRIVE FANS.

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

CITY OF POMPANO BEACH GOLF COURSE SHELTER & RESTROOM RENOVATIONS

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| | | | | | |

SEAL & SIGNATURE:

IRENE F. FRAGA FL. REG. 19922
FRAGA ENGINEERS JOB No. 1433

KEY PLAN:

DRAWING TITLE:
HVAC FLOOR PLAN

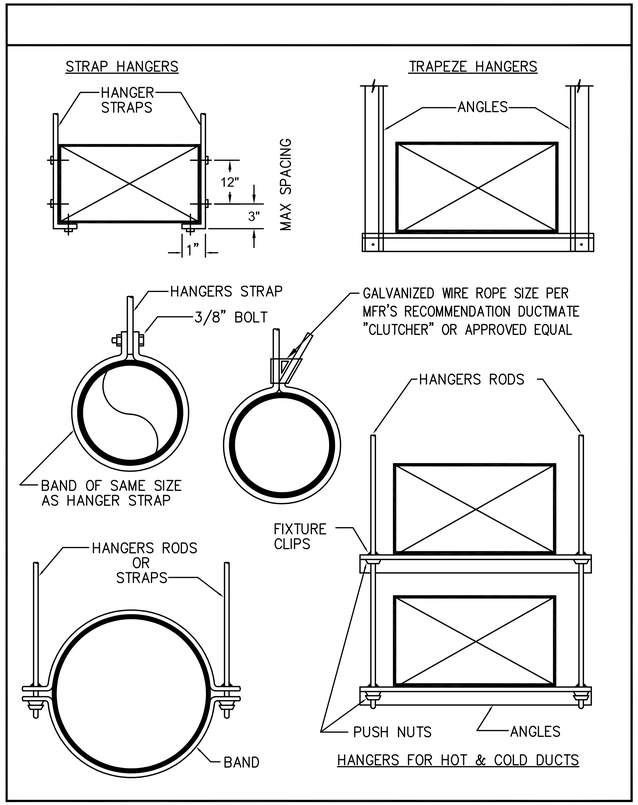
| DRAWN: | CHECKED: |
|---|---|
| DATE: | DEC. 1, 2014 |

SUBMITTAL:
PERMIT SUBMITTAL

SHEET NUMBER:
M-1.00

## MINIMUM SIZE DUCT HANGERS

| MAX ∑ DUCT PERIMETER | PAIR AT 10' SPACING | | PAIR AT 8' SPACING | | PAIR AT 5' SPACING | | PAIR AT 4' SPACING | | SINGLE HANGER MAX LOAD | |
|---|---|---|---|---|---|---|---|---|---|---|
| | STRAP | WIRE /ROD | STRAP | WIRE /ROD | STRAP | WIRE /ROD | STRAP | WIRE /ROD | STRAP | WIRE /ROD |
| P/2 = 30" | 1"x 22ga | 10 ga | 1"x 22ga | 10 ga | 1"x 22ga | 12 ga | 1"x 22ga | 12 ga | 1"x 22ga 260 lbs | 12ga – 80 lbs |
| P/2 = 72" | 1"x 18ga | 3/8" | 1"x 20ga | 1/4" | 1"x 22ga | 1/4" | 1"x 22ga | 1/4" | 1"x 20ga 320 lbs | 10ga – 125 lbs |
| P/2 = 96" | 1"x 16ga | 3/8" | 1"x 18ga | 3/8" | 1"x 20ga | 3/8" | 1"x 22ga | 1/4" | 1"x 18ga 420 lbs | 1/4"– 270 lbs |
| P/2 = 120" | 1½"x 16ga | 1/2" | 1"x 16ga | 3/8" | 1"x 18ga | 3/8" | 1"x 22ga | 1/4" | 1"x 16ga 700 lbs | 3/8"– 680 lbs |
| P/2 = 168" | 1½"x 16ga | 1/2" | 1½"x 16ga | 1/2" | 1"x 16ga | 3/8" | 1"x 22ga | 3/8" | 1½"x 16ga 1100 lbs | 1/2"– 1250 lbs |
| P/2 = 192" | N/A | 1/2" | 1½"x 16ga | 1/2" | 1"x 16ga | 3/8" | 1"x 22ga | 3/8" | 1"x 22ga 260 lbs | 5/8"– 2000 lbs |
| P/2 = 193" AND UP | SPECIAL ANALYSIS REQUIRED | | | | | | | | | 3/4"– 3000 lbs |




## MAXIMUM ALLOWABLE LOADS FOR TRAPEZE BARS

| LENGTH | 1x1x16ga | 1x1x⅛" | 1½x1½x16ga | 1½x1½x⅛ | 1½x1½x3/16 | 1½x1½x¼ | 2x2x⅛ | 2x2x3/16 | 2x2x¼ | 2½x2½x3/16 | 2½x2½x¼ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 24" | 75 | 150 | 180 | 350 | 510 | 650 | 650 | 940 | 1230 | 1500 | 1960 |
| 30" | 70 | 150 | 180 | 350 | 510 | 650 | 650 | 940 | 1230 | 1500 | 1960 |
| 36" | 60 | 130 | 160 | 340 | 500 | 620 | 620 | 920 | 1200 | 1480 | 1940 |
| 42" | 40 | 110 | 140 | 320 | 480 | 610 | 610 | 900 | 1190 | 1470 | 1930 |
| 48" | – | 80 | 110 | 290 | 450 | 580 | 580 | 870 | 1160 | 1440 | 1900 |
| 54" | – | – | – | 250 | 400 | 540 | 540 | 840 | 1120 | 1400 | 1860 |
| 60" | – | – | – | 190 | 350 | 490 | 490 | 780 | 1060 | 1340 | 1800 |
| 72" | – | – | – | – | 190 | 320 | 320 | 620 | 900 | 1180 | 1640 |
| 84" | – | – | – | – | – | – | – | 380 | 660 | 940 | 1400 |
| 96" | – | – | – | – | – | – | – | – | 320 | 600 | 1060 |

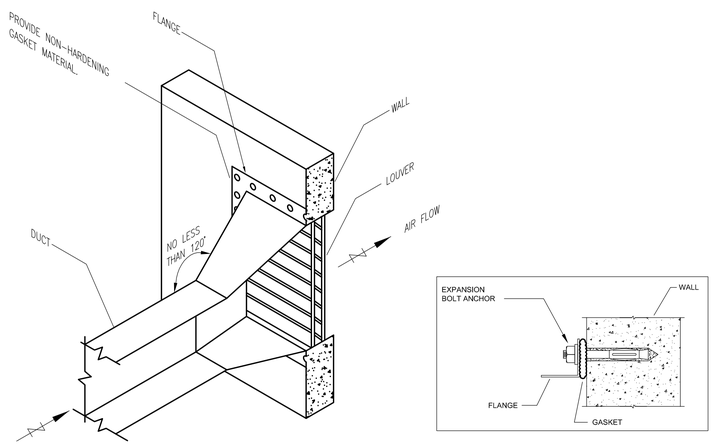
## HANGERS FOR DUCTS
NTS

## AIR DISTRIBUTION LEGEND

| | | | |
|---|---|---|---|
| DUCT: FIRST FIGURE IS SIDE SHOWN | | SMOKE DETECTOR; FIRESTAT (MUST USE ACC. DOOR) | AD, DD, F |
| DUCT WITH ACOUSTICAL LINING | | ACCESS PANEL | AP, AD |
| DUCT SECTION: SUPPLY & RETURN | | FLEXIBLE DUCT; FLEXIBLE CONNECTION (FC) | FC |
| ELBOW WITH TURNING VANES (MUST BE VANES) | | ELECT. STRIP HEATER (MUST USE ACC. DOOR) | AD, OH |
| TYP. 45° TAP –OFF WITH SPLITTER DAMPER OR VOLUME DAMPER | S.D. | FAN; WALL; ROOF | |
| TYP. 45° TAP–OFF WITH EXTRACTOR: FIXED, ADJUSTABLE | | UNDERCUT DOOR | U.C. " |
| VOLUME DAMPER, MANUAL, AUTOMATIC | M | THERMOSTAT; HUMIDSTAT | T, H |
| SPLITTER DAMPER | | | |
| DAMPER; FIRE; SMOKE. (MUST USE ACCES DOOR) | A.D., F, S | | |
| CURTAIN TYPE B FIRE DAMPER WITH AD | F | | |
| COMBINATION FIRE/SMOKE DAMPER CURTAIN TYPE B WITH AD | F, S | | |
| MULTIBLADE SMOKE DAMPER WITH AD | S | | |
| MULTIBLADE COMBINATION FIRE/SMOKE DAMPER WITH AD | F, S | | |

NOTES

1. 45° TAP–OFFS, SPLITTERS AT EACH TAP–OFF AND TEE, AND ACCESS DOORS SHALL BE USED WHERE REQUIRED, WHETHER OR NOT INDICATED IN THE DRAWINGS.
2. IN AREAS WHERE NON–REMOVABLE CEILINGS ARE USED, PROVIDE 45° TAP–OFFS OF THE FIXED TYPE, WITH WIDTH PROPORTIONAL TO BRANCH CFM.



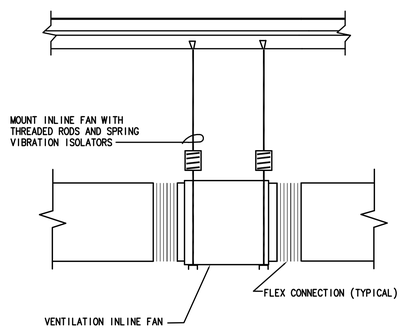

## LOUVER PLENUM
NTS

## LEGEND, SYMBOLS & ABBREVIATIONS

| | |
|---|---|
| A/C | AIR CONDITIONING |
| AFF | ABOVE FINISH FLOOR |
| BTU/HR | BRITISH THERMAL UNIT PER HOUR |
| CFM | CUBIC FEET PER MINUTE |
| °FDB | DEGREE FARENHEIT DRY BULB |
| °FWB | DEGREE FARENHEIT WET BULB |
| DG | DOOR GRILLE |
| DIFF | DIFFUSER |
| DN | DOWN |
| ENT | ENTERING |
| EXH | EXHAUST |
| F.C.U. | FAN COIL UNIT |
| F.D. | FIRE DAMPER |
| FIN | FINISHED |
| F.L.A. | FULL LOAD AMPERES |
| FLEX | FLEXIBLE |
| FL | FLOOR |
| FLD | FULL LOUVER DOOR |
| FPM | FEET PER MINUTE |
| GR | GRILLE |
| HOR | HORIZONTAL |
| HP | HORSEPOWER |
| ISOL. | ISOLATOR |
| KW | KILOWATTS |
| LBS | POUNDS |
| LRA | LOCKED ROTOR AMPERES |
| O.A. | OUTSIDE AIR |
| R.A. | RETURN AIR |
| RA/LD | RETURN AIR THROUGH LOUVERED DOOR |
| REG. | REGISTER |
| REQ'D | REQUIRED |
| R.H. | RELATIVE HUMIDITY |
| RPM | REVOLUTIONS PER MINUTE |
| SP.D. | SPLITTER DAMPER |
| SP | STATIC PRESSURE |
| TEMP. | TEMPERATURE |
| T'STAT | THERMOSTAT |
| TYP. | TYPICAL |
| U.D. | UNDERCUT DOOR |
| V.D. | VOLUME DAMPER |
| VERT. | VERTICAL |
| W/ | WITH |
| W.P. | WATER PROOF |
| 1–W | ONE WAY |
| 2–W | TWO WAY |
| 3–W | THREE WAY |
| 4–W | FOUR WAY |
| T H | THERMOSTAT (4'–0" ABOVE FINISH FLOOR) |
| 20x12 | DUCT SIZE IN INCHES (FIRST FIG. SIZE SHOWN) |
| | DUCT FLEXIBLE CONNECTION |
| | VIBRATION ISOLATORS |

IS OR 4A ETC. NUMBER & LETTER NEXT TO CLG. DIFF. INDICATES TITUS PATTERN TYPE.

NOTE:
NOT ALL SYMBOLS & ABBREVIATIONS ARE USED.




## INLINE FAN VENTILATION DETAIL
NTS

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SEAL & SIGNATURE:

IRENE F. FRAGA FL. REG. 19922
FRAGA ENGINEERS JOB No. 1433

KEY PLAN:

DRAWING TITLE:
HVAC LEGEND AND DETAILS

DRAWN: | CHECKED:

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