PROJECT TEAM:

ARCHITECT

BRIDGES, MARSH & ASSOCIATES, INC. 18 VIA MIZNER PALM BRACH, FL. 33480 PHONE: (561) 832-1533 FAX: (361) 832-1520

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ARCHITECTURAL

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TOWN OF PALM BEACHMID-TOWN RESTROOMS MAYOR

Gail L. Coniglio **TOWN COUNCIL PRESIDENT: David A. Rosow** PRESIDENT PRO TEM: Robert N. Wildrick **COUNCIL MEMBER: William J. Diamond** COUNCIL MEMBER: Richard M. Kleid **COUNCIL MEMBER: Michael J. Pucillo DIRECTOR OF PUBLIC WORKS: H. Paul Brazil** TOWN ENGINEER: James M. Bowser, P.E.

TOWNOFPALMBEACH, FLORIDA

NDEX

OOR PLANS TIONS ECTIONS NS-RESTROOMS CHEDULE

CIVIL

KIMLEY-HORN and Associates. Inc. 1920 Wektva Way Suite 200 West Palm Beach, Fl. 33411 PHONE: (561) 840-0862 FAX: (561) 863-8175

CIVIL

SITE DEMOLITION PLAN RAMP LAYOUT CIVIL DETAILS C-1 C-2 C-3

M.E.P

Teele & Associate Consulting Engineers 3894 Evans Road Delray Beach, Fl. 33445 PHONE: (561) 455-2438

MECHANICAL

MECHANICAL FLOOR PLAN AND SCHEDULES M-1

ELECTRICAL

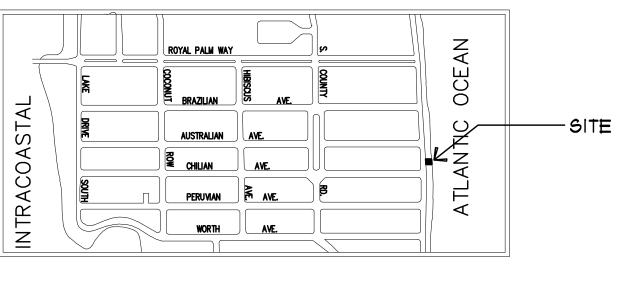
E2.1 ELECTRICAL FLOOR PLAN

PLUMBING

PLUMBING FLOOR PLANS RISER DIAGRAM AND FIXTURE SCHEDULE

SURVEYOR

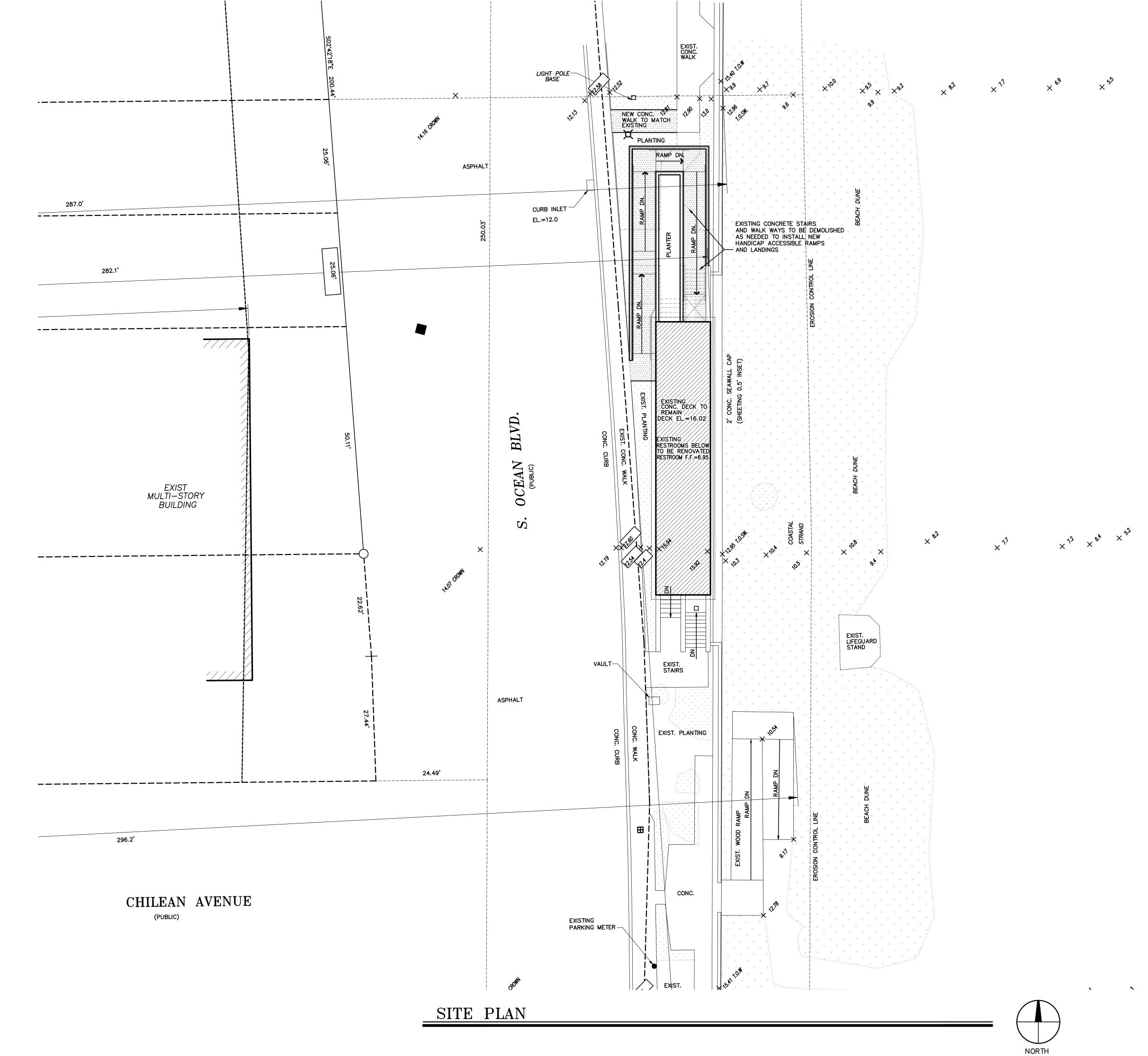
Wallace Surveying Corp. 5553 Village Bivd. West Palm Beach, Fl. 33407 PHONE: (561) 640-4551

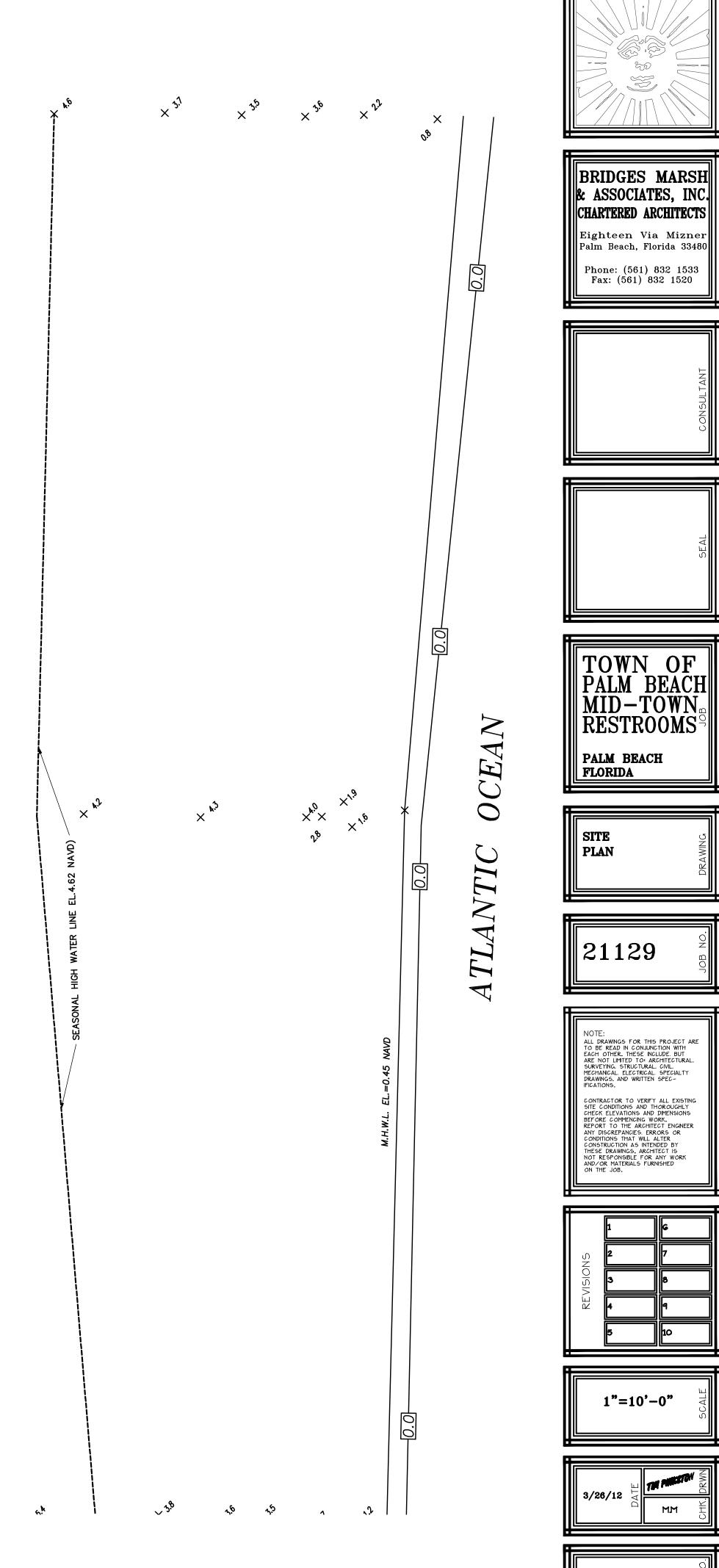


N.T.S.

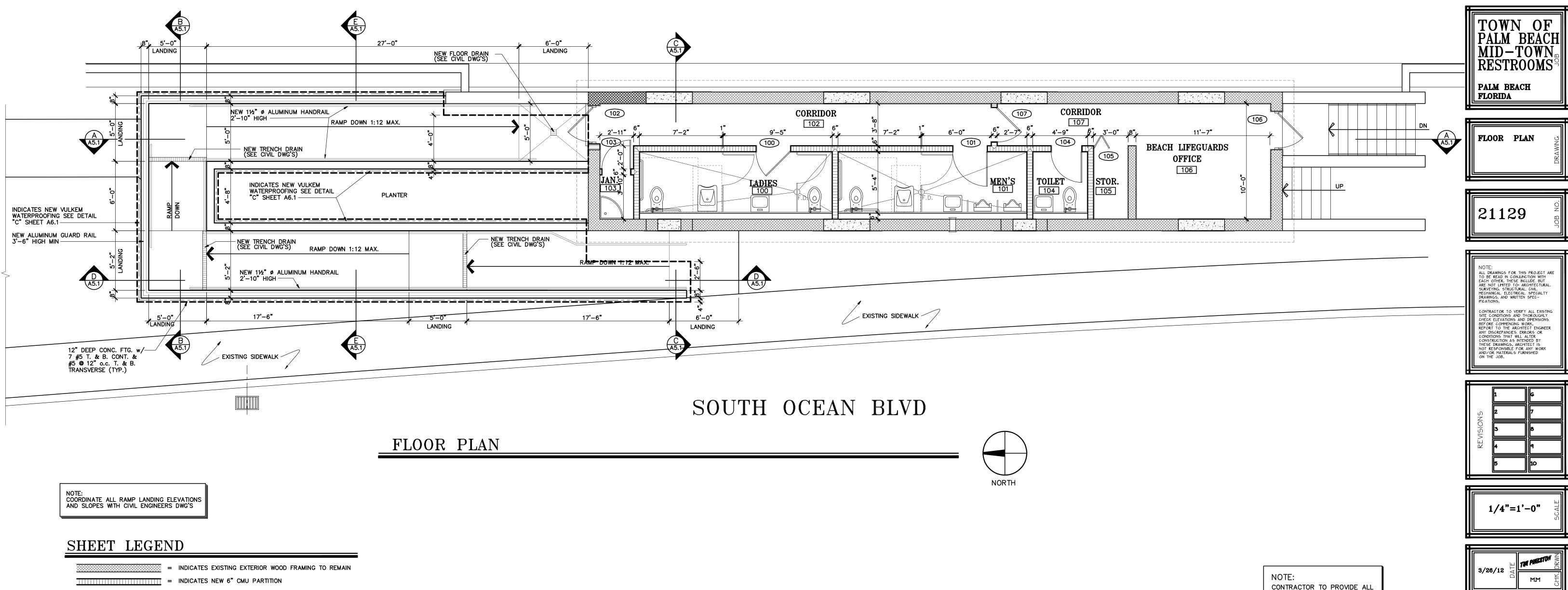
LOCATION MAP

RIDGES MARSH SSOCIATES, INC dm Beach, Florida 33480 Phone: (561) 832 1533 Fax: (561) 832 1520 WN OF BEACH MID-TOWN RESTROOMS PALM BEACH FLORIDA SHEET ALL DRAWINGS FOR THIS PROJECT ARE TO BE READ IN CONJUNCTION WITH EACH OTHER. THESE INCLUDE. BUT ARE NOT LIMITED TO ARCHITECTURAL. SURVEYING. STRUCTURAL. CIVIL. MECHANICAL. ELECTRICAL. SPECIALTY DRAWINGS. AND WRITTEN SPEC-IFICATIONS. CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS AND THOROUGHLY CHECK ELEVATIONS AND DIMENSIONS BEFORE COMMENCING WORK. REPORT TO THE ARCHITECT ENGINEER REPORT TO THE ARCHITECT ENGINE ANY DISCREPANCIES. ERRORS OR CONDITIONS THAT WILL ALTER CONSTRUCTION AS INTENDED BY THESE DRAWINGS. ARCHITECT IS NOT RESPONSIBLE FOR ANY WORK AND/OR MATERIALS FURNISHED ON THE JOB. N.T.S. 3/26/12 MM COVER





A1.1



- = INDICATES NEW POURED CONCRETE REPAIR IN EXISTING EXTERIOR WALL

ALTERATION PROJECT PROCEDURES

PREPARATION:

- 1. CUT, MOVE OR REMOVE ITEMS AS NECESSARY FOR ACCESS TO ALTERNATIONS AND RENOVATIONS WORK; REPLACE AND RESTORE AT COMPLETION
- 2. REMOVE UNSUITABLE MATERIAL NOT MARKED FOR SALVAGE, SUCH AS ROTTED WOOD, RUSTED METALS DETERIORATED MASONRY AND CONCRETE; REPLACE MATERIALS AS SPECIFIED FOR FINISHED WORK. REMOVE DEBRIS AND ABANDONED ITEMS FROM AREA AND FROM CONCEALED SPACES
- PREPARE SURFACES AND REMOVE SURFACE FINISHES TO PROVIDE FOR PROPER INSTALLATION OF NEW WORK AND NEW FINISHES.
- 4. CLOSE OPENINGS IN EXTERIOR SURFACES TO PROTECT EXISTING WORK FROM WEATHER AND EXTREMES OF TEMPERATURE, HUMIDITY.

INSTALLATION

- 1. COORDINATE WORK OF ALTERATIONS AND RENOVATIONS TO EXPEDITE COMPLETION
- 2. REMOVE, CUT, AND PATCH WORK IN A MATTER TO MINIMIZE DAMAGE AND TO PROVIDE MEANS OF RESTORING PRODUCTS AND FINISHES TO SPECIFIED CONDITION. REFINISH VISIBLE EXISTING SURFACES TO REMAIN IN RENOVATED ROOMS AND SPACES, TO SPECIFIED CONDITION FOR EACH MATERIAL, WITH A NEAT TRANSITION TO ADJACENT NEW FINISHES
- 3. IN ADDITION TO SPECIFIED REPLACEMENT OF EQUIPMENT AND FIXTURES, RESTORE EXISTING PLUMBING, HEATING, ELECTRICAL, AIR CONDITIONING SYSTEMS TO FULL OPERATIONAL CONDITION.
- 4. INSTALL PRODUCTS AS SPECIFIED IN INDIVIDUAL SECTIONS.

TRANSITIONS:

- 1. WHERE NEW WORK ABUTS OR ALIGNS WITH EXISTING, MAKE A SMOOTH AND EVEN TRANSITION. PATCHED WORK SHALL MATCH EXISTING ADJACENT WORK IN TEXTURE AND APPEARANCE.
- 2. WHEN FINISHED SURFACES ARE CUT SO THAT A SMOOTH TRANSITION WITH NEW WORK WORK IS NOT POSSIBLE, TERMINATE EXISTING SURFACE ALONG A STRAIGHT LINE AT A NATURAL LINE OF DIVISION AND MAKE RECOMMENDATIONS TO ARCHITECT.

ADJUSTMENTS

1. WHERE REMOVAL OF PARTITIONS RESULTS IN ADJACENT SPACES BECOMING ONE, REWORK FLOORS, WALLS, AND CEILINGS TO A SMOOTH PLANE WITHOUT BREAKS, STEPS, OR BULKHEADS. WHERE A CHANGE OF PLANE OF 14" (6 MM) OR MORE OCCURS, REQUEST INSTRUCTIONS FROM ARCHITECT. TRIM EXISTING DOOR AS NECESSARY TO CLEAR NEW FLOOR FINISHES; REFINISH TRIMMED AREAS.

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BRIDGES MARSH

& ASSOCIATES, INC.

CHARTERED ARCHITECTS

Eighteen Via Mizner Palm Beach, Florida 33480

Phone: (561) 832 1533 Fax: (561) 832 1520

A2.1

REPAIR OF DAMAGED SURFACES

1 PATCH OR REPLACE PORTIONS OF EXISTING SURFACES WHICH ARE DAMAGED, LIFTED, DISCOLORED, SHOWING OTHER IMPERFECTIONS. REPAIR SUBSTRATE PRIOR TO PATCHING FINISH.

<u>FINISHES</u>

FINISH SURFACES AS SPECIFIED IN INDIVIDUAL SECTIONS. FINISH PATCHES TO PRODUCE UNIFORM FINISH AND TEXTURE OVER ENTIRE AREA. WHEN FINISH CANNOT BE MATCHED, REFINISH ENTIRE SURFACE TO NEAREST INTERSECTION.

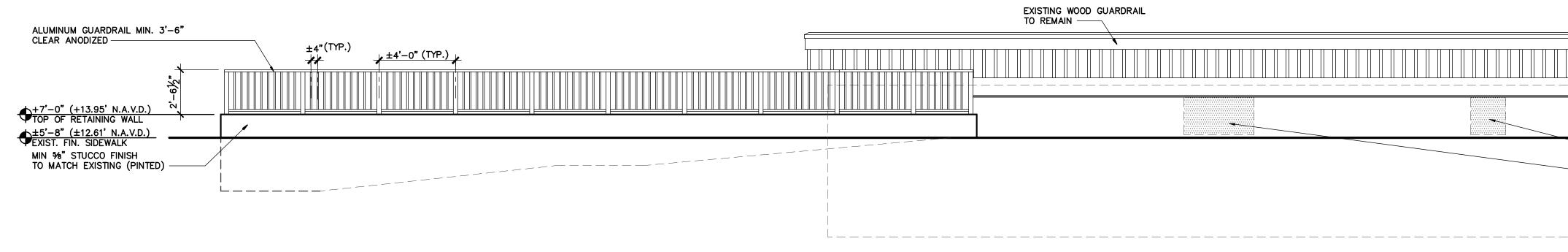
<u>CLEANING</u>

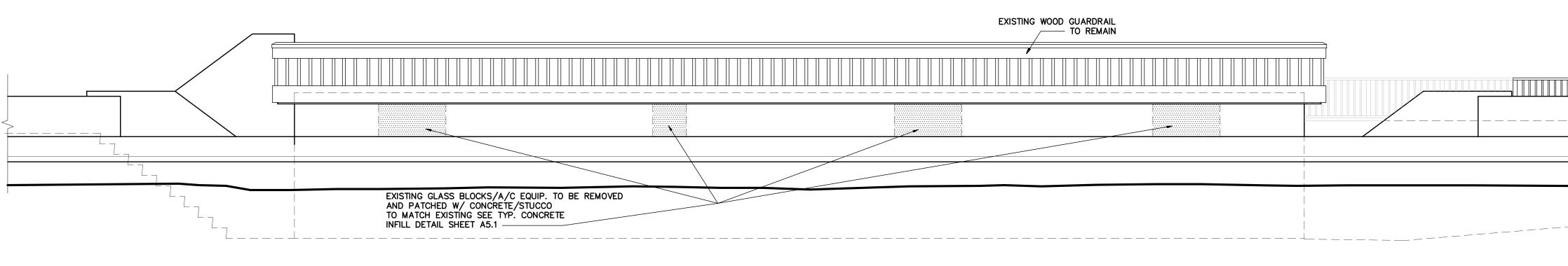
- 1. IN ADDITION TO CLEANING SPECIFIED IN OTHER SECTIONS, CLEAN OWNER-OCCUPIED AREAS OF WORK DAILY.
- 2. AT COMPLETION OF WORK IN EACH AREA, CLEAN AND RETURN SPACE TO A CONDITION SUITABLE FOR USE BY OWNER.

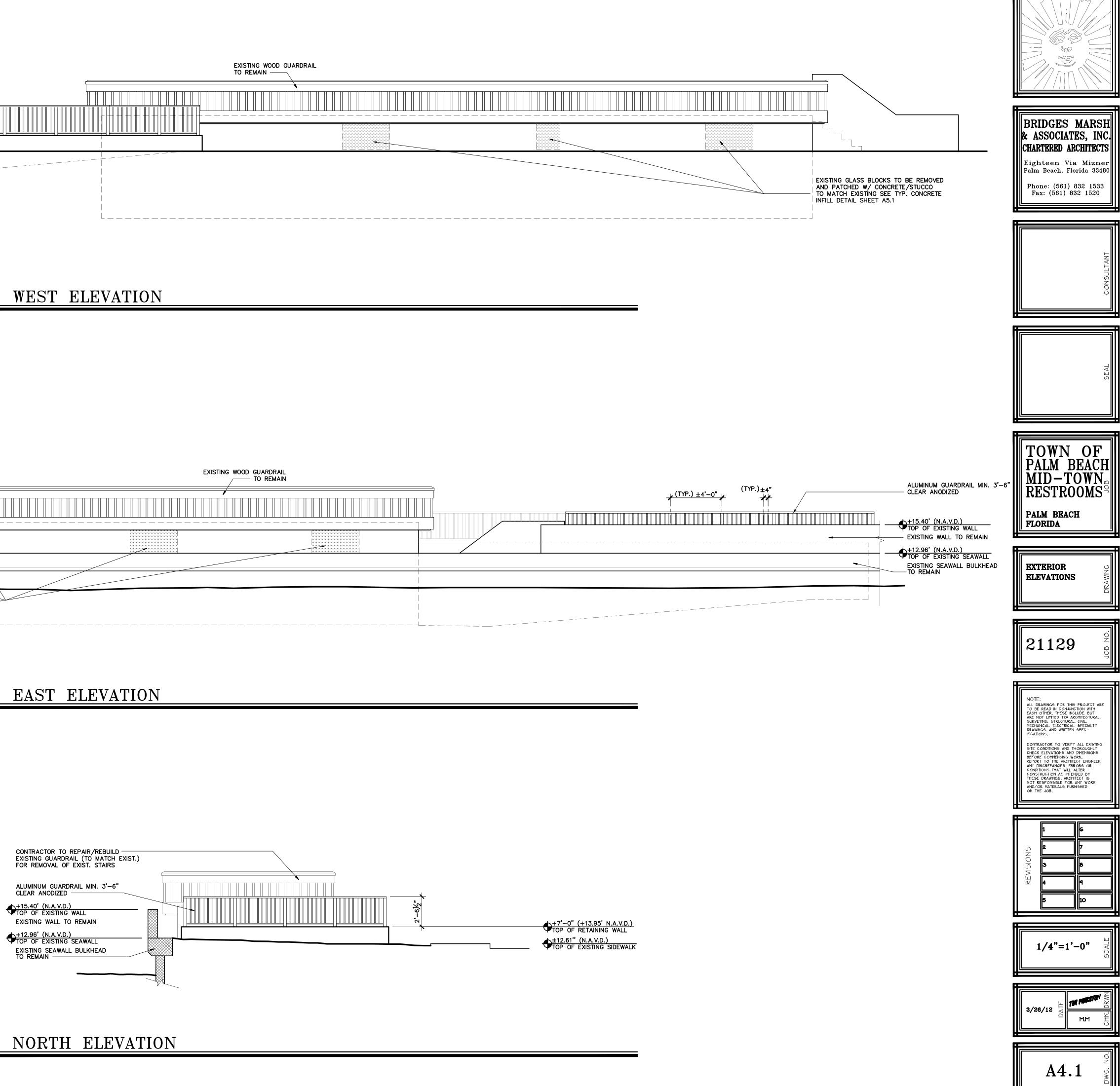
NECCESSARY REPAIRS TO NEW

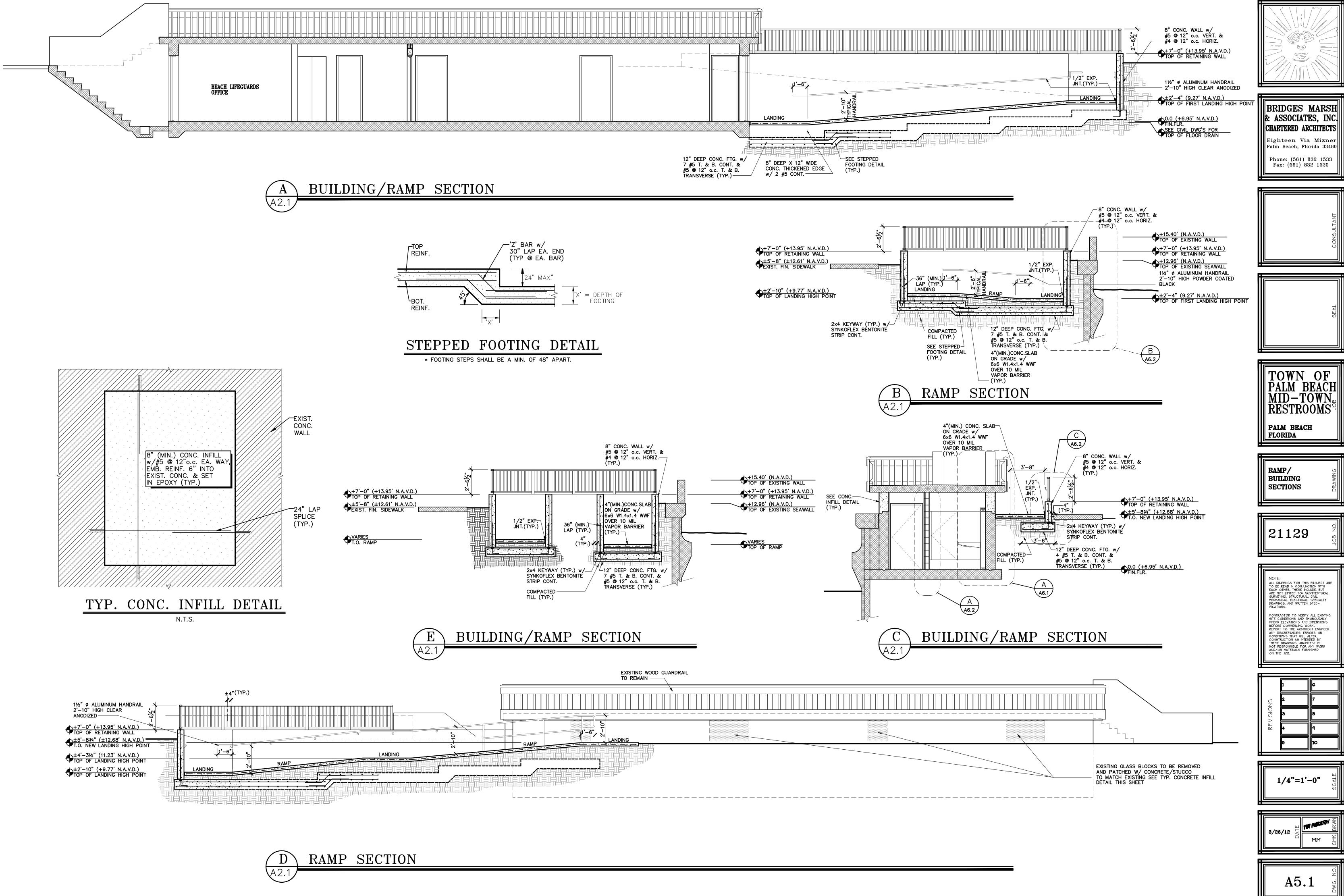
AND EXIST. WALLS TO MATCH

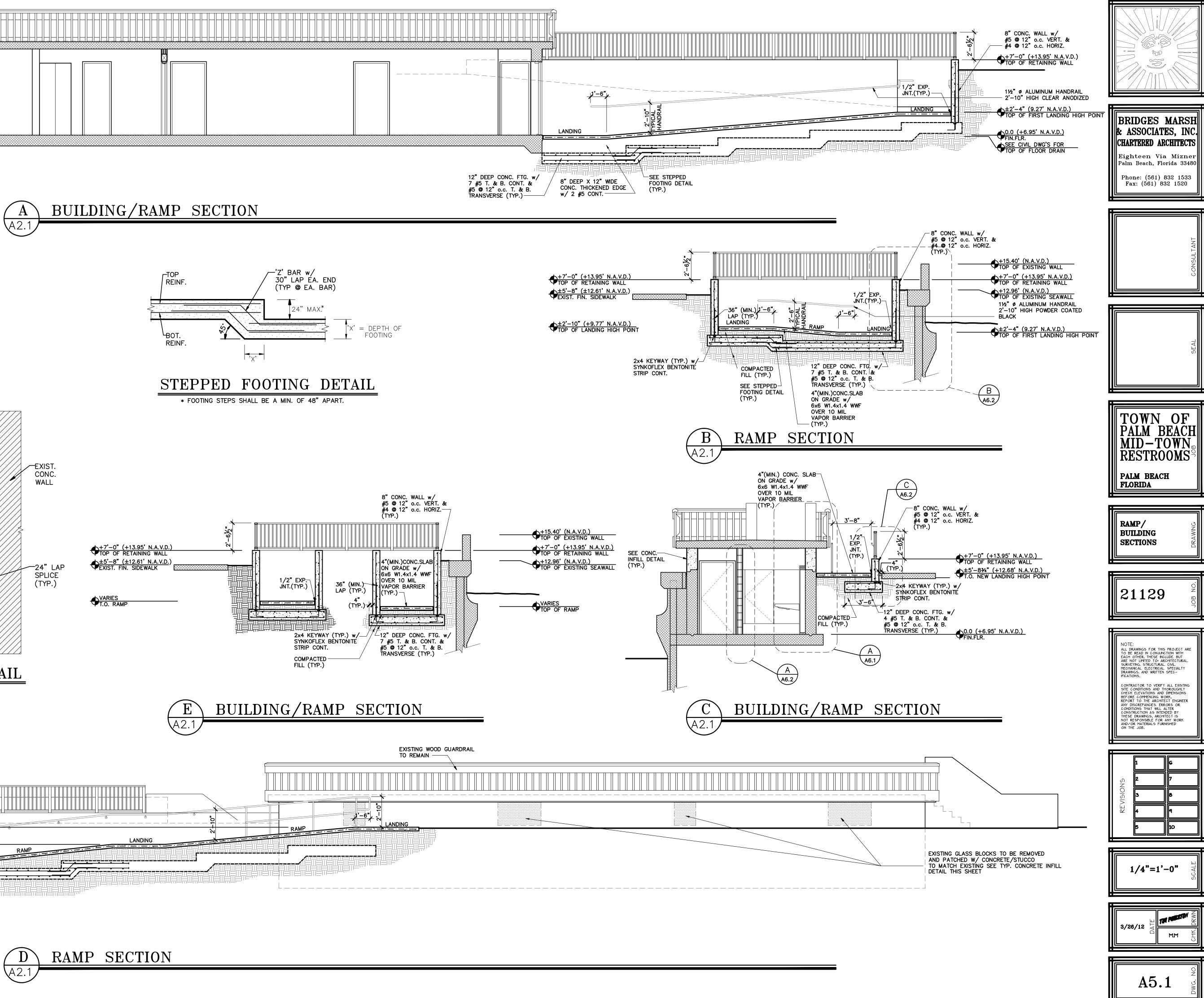
EXISTING FINISHES

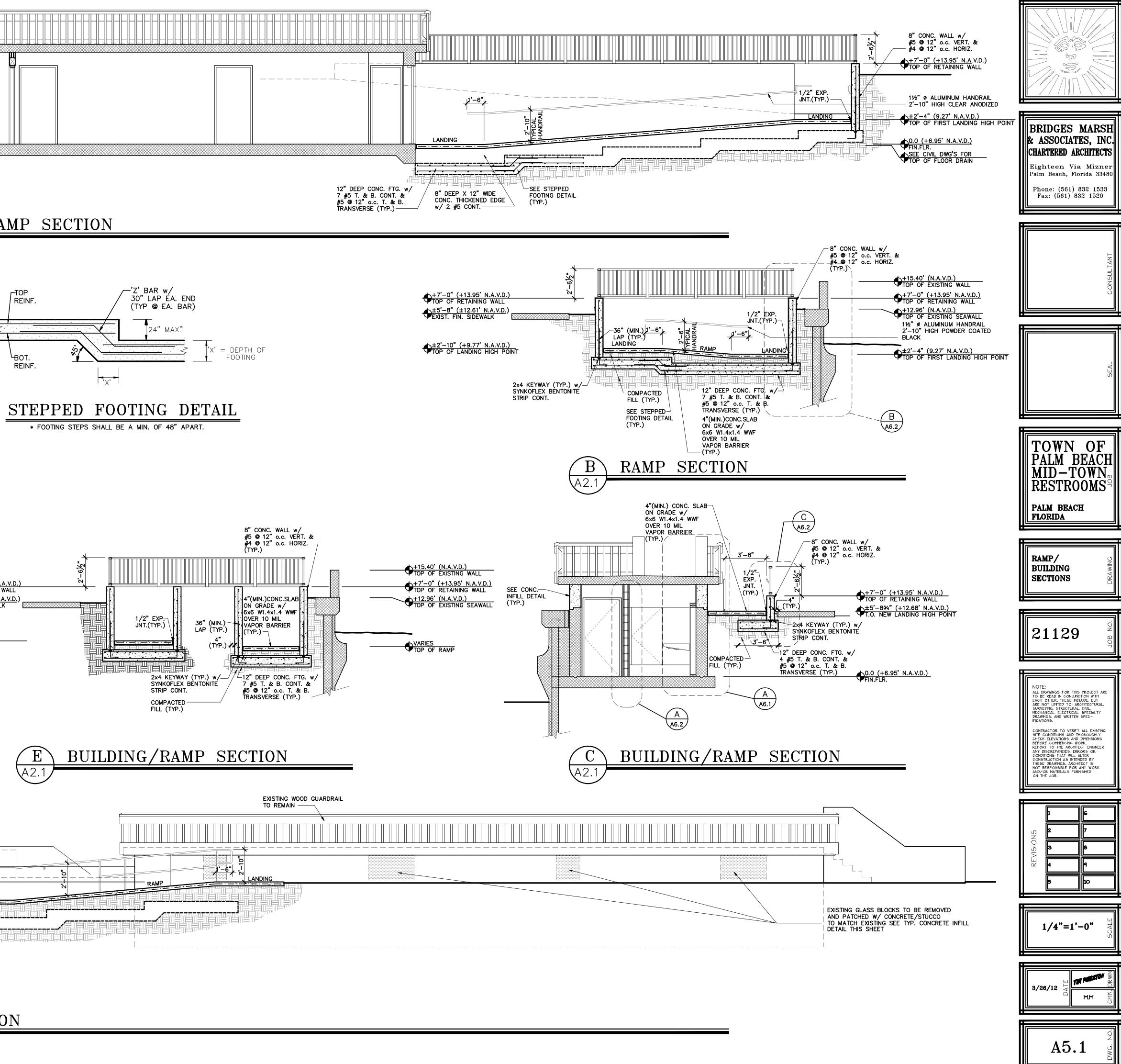




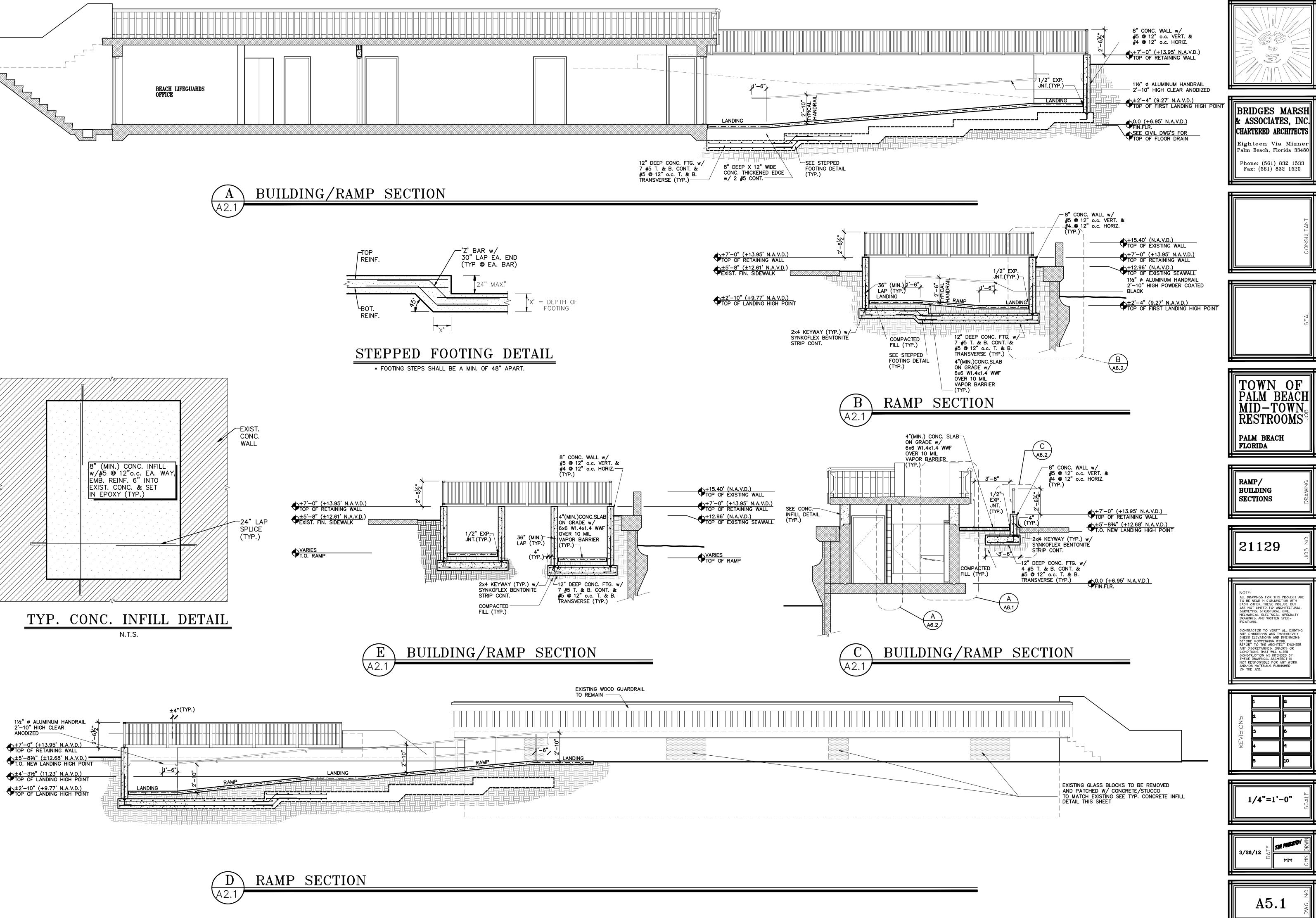




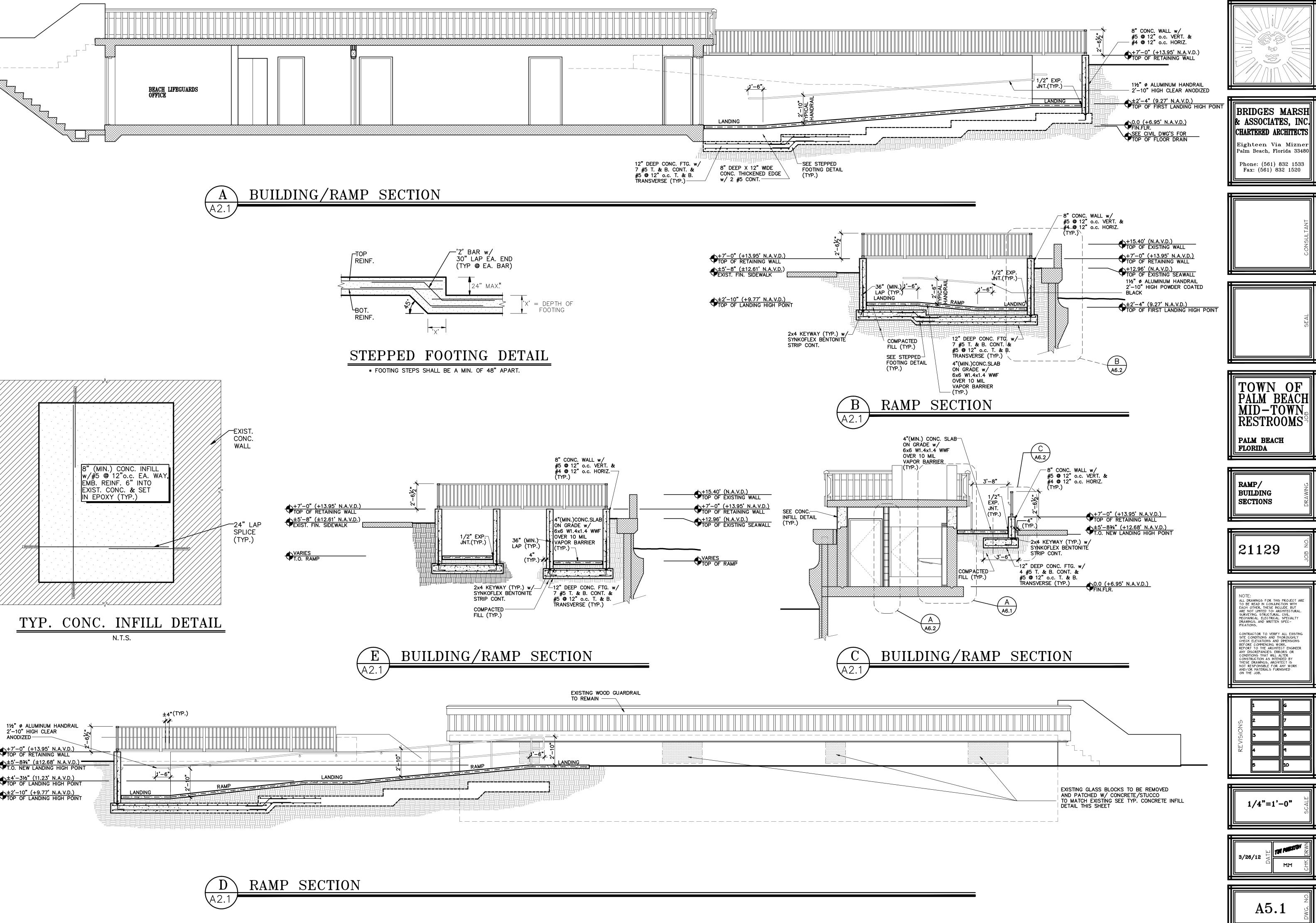




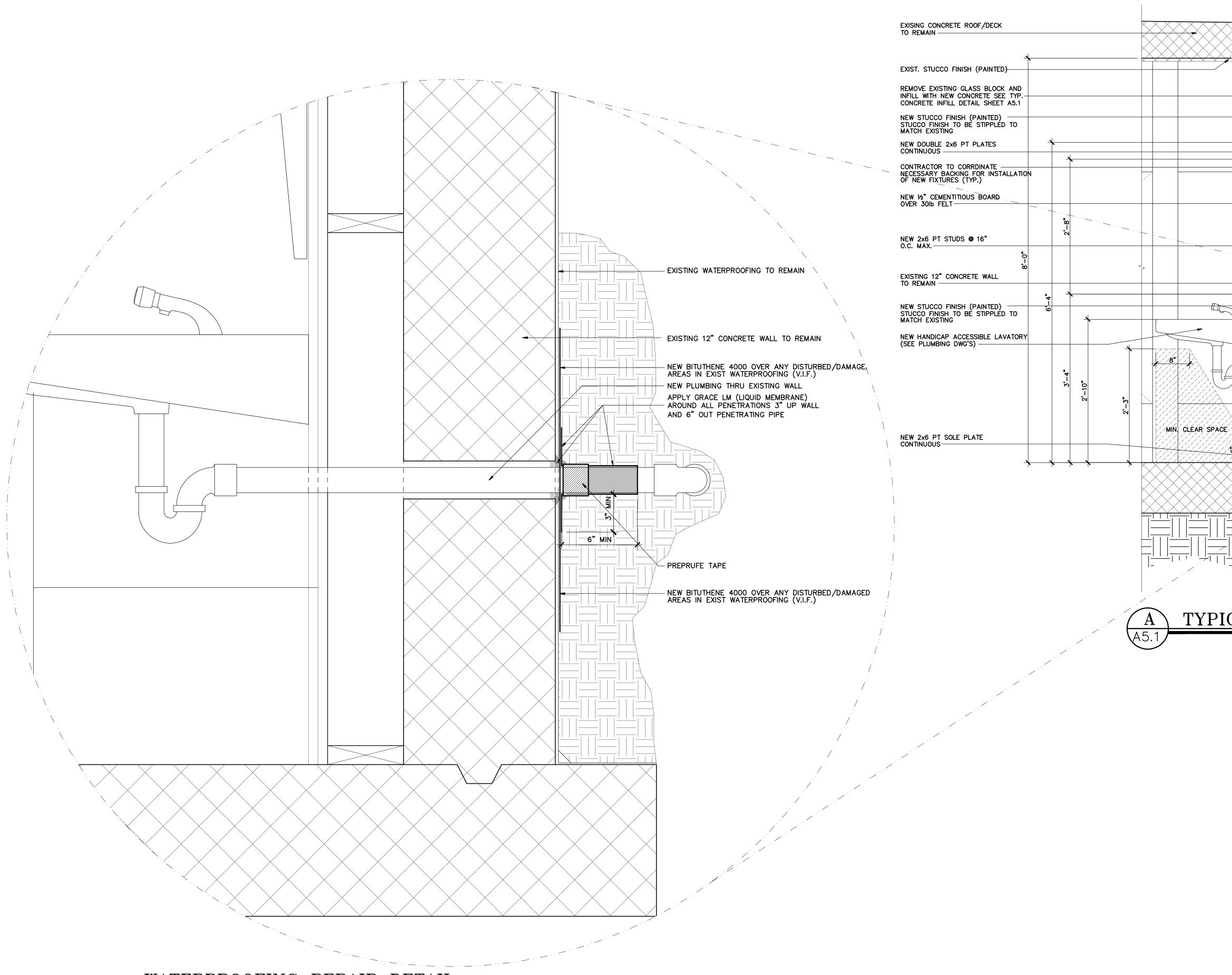












WATERPROOFING REPAIR DETAIL

~~~ S BRIDGES MARSH & ASSOCIATES, INC. CHARTERED ARCHITECTS Eighteen Via Mizner Palm Beach, Florida 33480 11 NEW 1½" Ø POWDER COATED ALUMINUM – HANDRAIL CONTINUOUS Phone: (561) 832 1533 Fax: (561) 832 1520 NEW 1½" Ø POWDER COATED ALUMINUM – POST'S 4' O.C. MAX. SET IN NON SHRINKING EPOXY .Δ. . .⊳ 4"(MIN.) CONC. SLAB ON GRADE w/ 6x6 W1.4x1.4 WWF OVER 10 MIL VAPOR BARRIER - (TYP.) · Þ 4  $\geq$ \_\_\_\_ \_\_\_\_ TOWN OF PALM BEACH MID-TOWN RESTROOMS PALM BEACH FLORIDA \_\_\_\_ |\_\_\_\_| DETAILS,  $\Phi_{\text{EXISTING FIN.FL.}}^{0,0 (\pm 6.95' \text{ N.A.V.D.})}$ WALL SECTIONS  $\times$ 21129 <u>|</u>\_\_\_| \_\_\_\_ NUTE: ALL DRAWINGS FOR THIS PROJECT ARE TO BE READ IN CONJUNCTION WITH EACH OTHER. THESE INCLUDE. BUT ARE NOT LIMITED TO: ARCHITECTURAL. SURVEYING, STRUCTURAL, CIVIL, MECHANICAL. ELECTRICAL. SPECIALTY DRAWINGS, AND WRITTEN SPEC-IFICATIONS. TYPICAL WALL SECTION CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS AND THOROUGHLY CHECK ELEVATIONS AND DIMENSIONS BEFORE COMMENCING WORK. REPORT TO THE ARCHITECT ENGINEER ANY DISCREPANCIES. ERRORS OR CONDITIONS THAT WILL ALTER CONSTRUCTION AS INTENDED BY THESE DRAWINGS. ARCHITECT IS NOT RESPONSIBLE FOR ANY WORK AND/OR MATERIALS FURNISHED ON THE JOB. 1"=1'-0" AS NOTED II TH PHILETON > 3/26/12 MM

A6.1

11/2" OCNT. ALUMINUM HANDRAIL POWDER COATED BLACK-COTED BLACK -1½"x3"x¼" BOTTOM RAIL CONT. POWDER COATED BLACK

8" CONC. WALL w/ #5 @ 12" o.c. VERT. & #4 @ 12" o.c. HORIZ. — (TYP.)

4"(MIN.) CONC. SLAB ON GRÁDE w/ 6x6 W1.4x1.4 WWF OVER 10 MIL VAPOR BARRIER (TYP.) -EXISTING SIDEWALK TO REMAIN -

12" DEEP CONC. FTG. w/ 4 #5 T. & B. CONT. & — #5<sup>°</sup>@ 12<sup>°</sup> o.c. T. & B. TRANSVERSE (TYP.) 2x4 KEYWAY (TYP.) w/ SYNKOFLEX BENTONITE STRIP CONT. GRACE LM (LIQUID MEMBRANE) CANT WELL COMPACTED SAND FILL -

NEW 11/2"x3"x1/4" ALUMINUM TOP RAIL CONTINUOUS POWDER COATED BLACK NEW 1"x1" ALUMINUM PICKETS 4" O.C. MAX WELDED TO TOP AND BOTTOM RAILS AND POWDER COATED BLACK 

1½"x3"x¼" BOTTOM RAIL CONT. POWDER COATED BLACK

MIN 5%" STUCCO EACH SIDE (PAINTED) \_\_\_\_\_ STUCCO FINISH TO MATCH EXISTING BUILDING 2 PIECE COPPER COUNTER FLASHING

8" CONC. WALL w/ #5 @ 12" o.c. VERT. & #4 @ 12" o.c. HORIZ. (TYP.)

EXISTING MASONRY WALL TO REMAIN

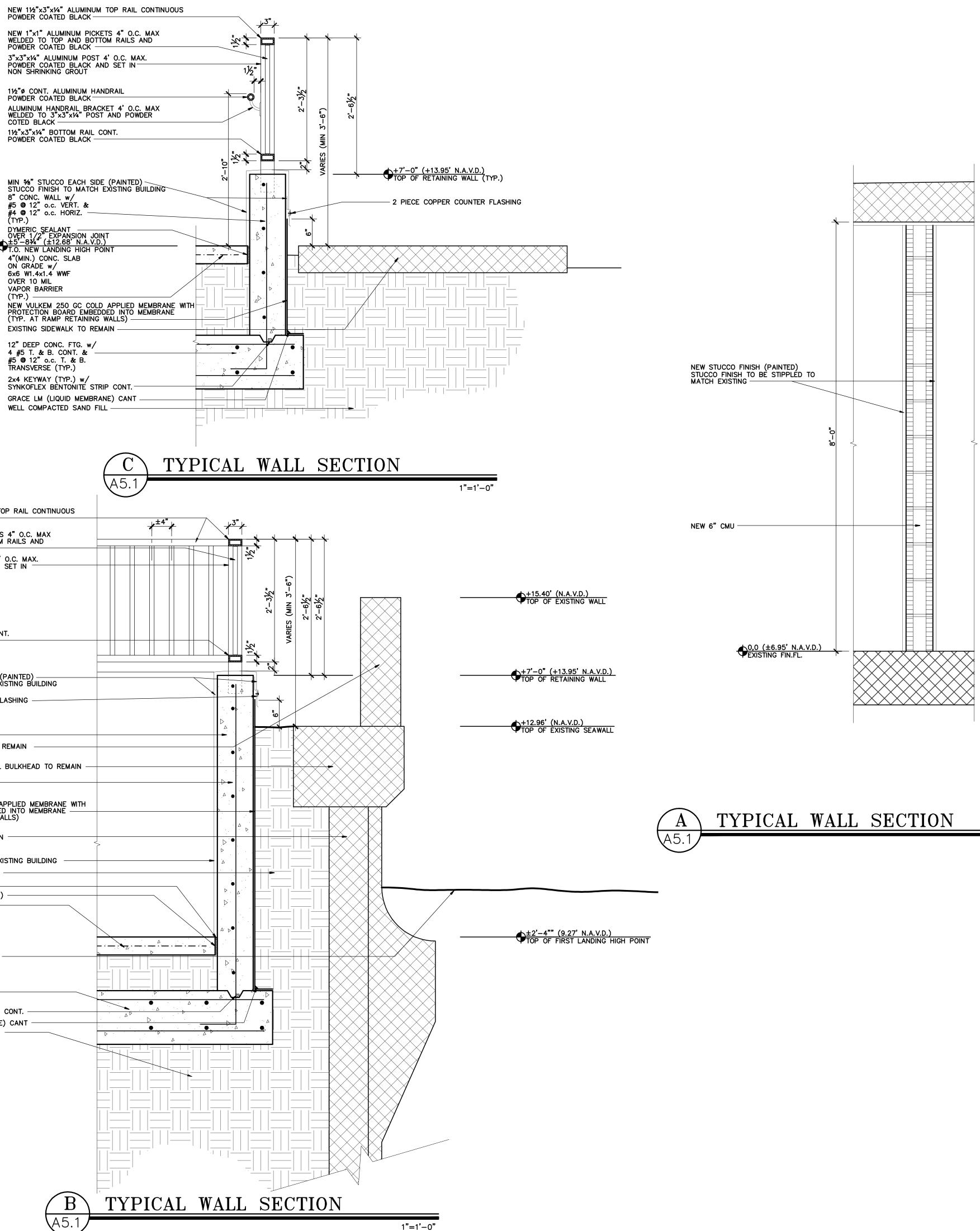
EXISTING CONCRETE SEAWALL BULKHEAD TO REMAIN -NEW 8" CMU WALL -

EXISTING SEAWALL TO REMAIN

WELL COMPACTED SAND FILL

MIN %" STUCCO (PAINTED) STUCCO FINISH TO MATCH EXISTING BUILDING WELL COMPACTED SAND FILL DYMERIC SEALANT -1/2" EXPANSION JOINT (TYP.) -4"(MIN.) CONC. SLAB -ON GRÁDE w/ 6x6 W1.4x1.4 WWF OVER 10 MIL VAPOR BARRIER (TYP.) EXISTING BEACH TO REMAIN 12" DEEP CONC. FTG. w/ 4 #5 T. & B. CONT. & #5<sup>"</sup>@ 12" o.c. T. & B. TRANSVERSE (TYP.) -2x4 KEYWAY (TYP.) w/ SYNKOFLEX BÈNTONITÉ STRIP CONT. GRACE LM (LIQUID MEMBRANE) CANT

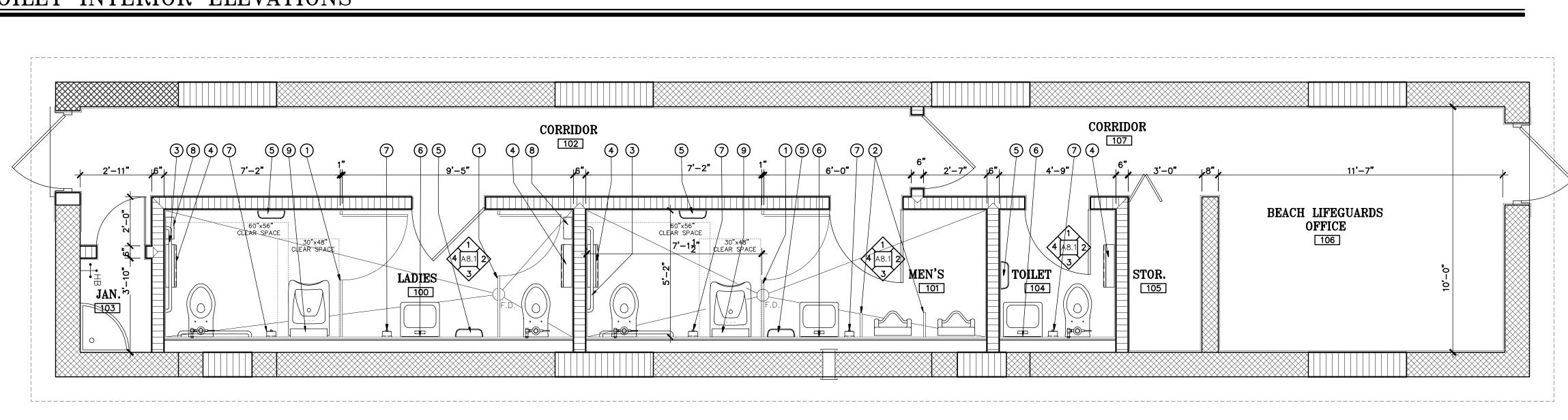
> B A5.1



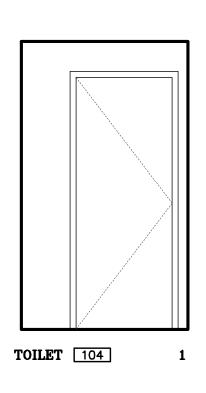
1"=1'-0"

| BRIDGES MARS<br>& ASSOCIATES, IN<br>CHARTERED ARCHITEC<br>Eighteen Via Mizm<br>Palm Beach, Florida 33<br>Phone: (561) 832 153<br>Fax: (561) 832 1520 | NC.<br>TS<br>Ler<br>480 |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
|                                                                                                                                                      | CONSULTANT              |
|                                                                                                                                                      | SEAL                    |
| TOWN OF<br>PALM BEAC<br>MID-TOWN<br>RESTROOMS<br>PALM BEACH<br>FLORIDA                                                                               | H                       |
| DETAILS,                                                                                                                                             |                         |
| AND<br>WALL SECTIONS                                                                                                                                 | DRAWING                 |
|                                                                                                                                                      | JOB NO.                 |
| WALL SECTIONS                                                                                                                                        | DRAWI                   |
| WALL SECTIONS<br>WALL SECTIONS                                                                                                                       | DRAWI                   |
| WALL SECTIONS                                                                                                                                        | DRAWI                   |
| WALL SECTIONS<br>WALL SECTIONS                                                                                                                       | E DRAWI                 |

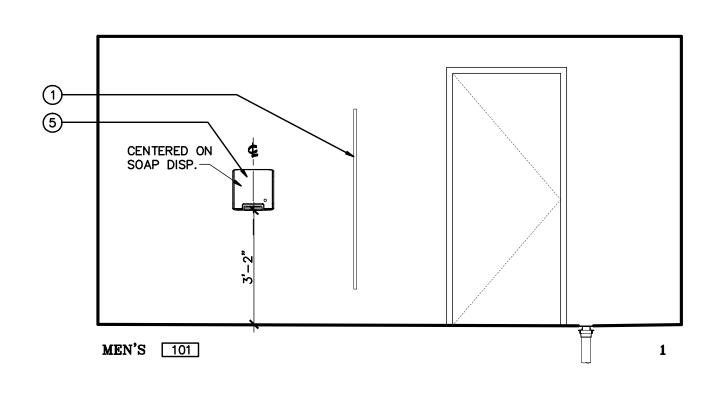
# RESTROOM PLANS



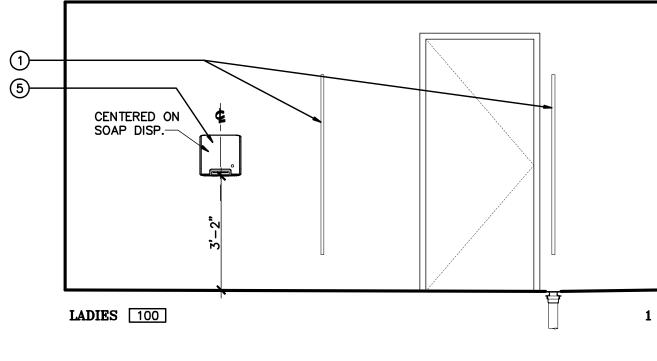
# TOILET INTERIOR ELEVATIONS

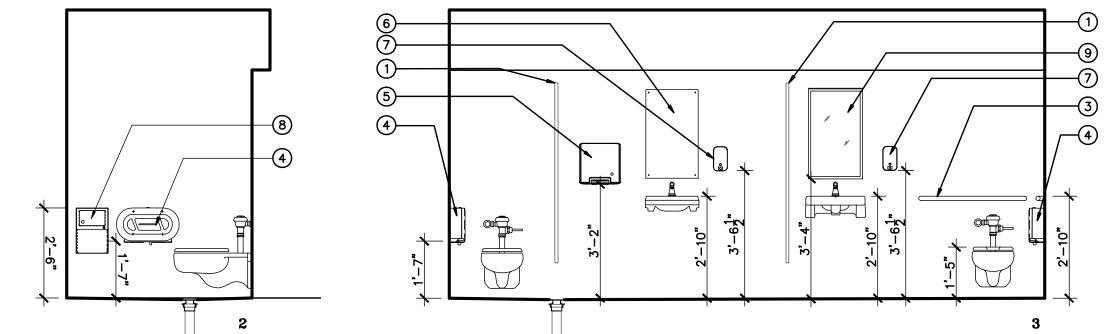


# MEN'S RESTROOM INTERIOR ELEVATIONS

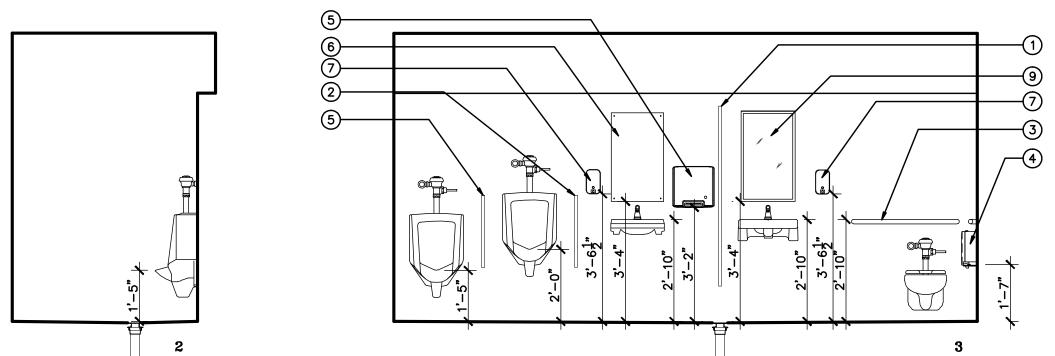


# LADIES RESTROOM INTERIOR ELEVATIONS

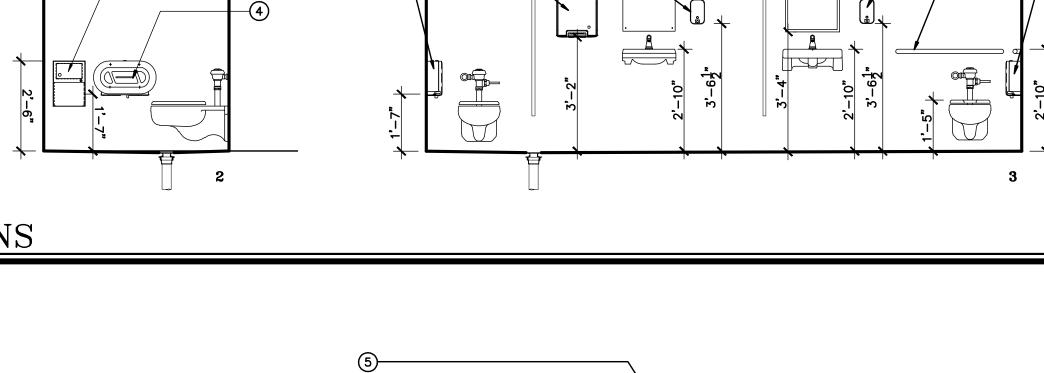


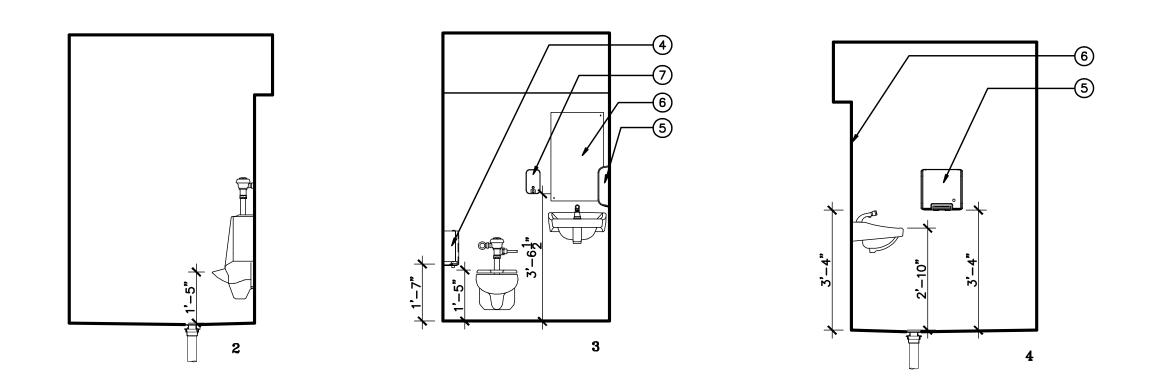










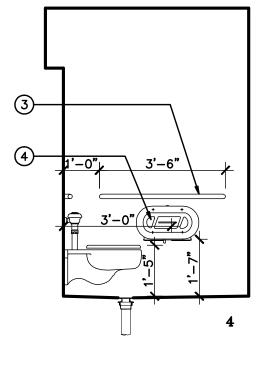


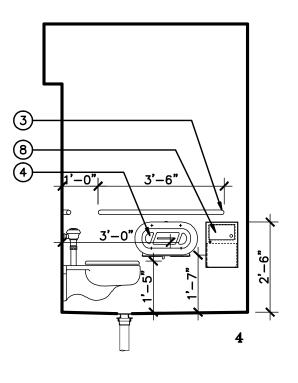


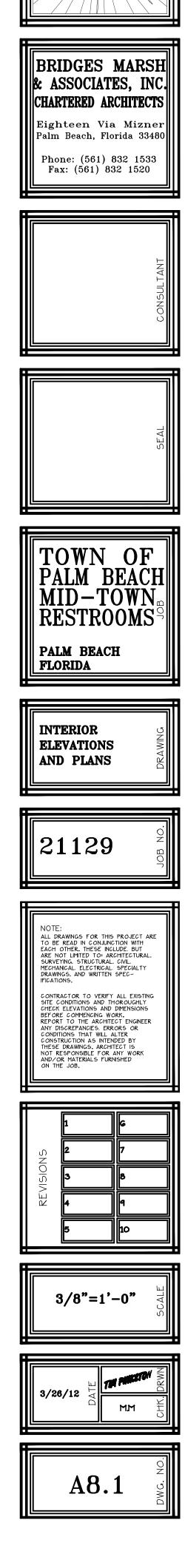
MOUNT ALL TOILET ACCESSORY FOR H.C. AS PER FLORIDA ACCESSIBILITY REQUIREMENTS MANUAL

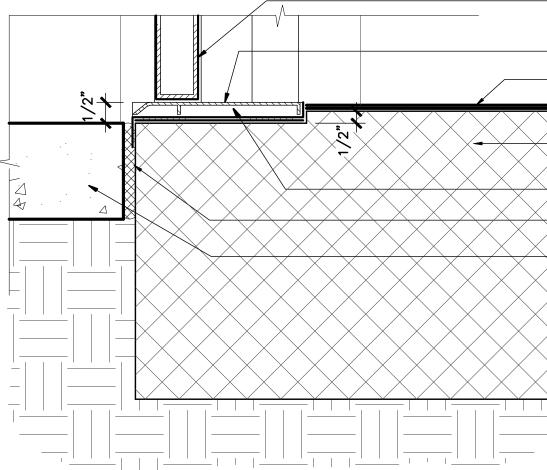
NOTES:

- 8. SURFACE MOUNTED SANITARY NAPKIN DISPOSAL (BRADLEY 4A10-11, SURFACE MOU 9. WALL MOUNTED TILT MIRROR (BRADLEY STANDARD MODEL 740-1830)
- 5. HAND DRYER (BRADLEY 2902-2874, STAINLESS STEEL SATIN FINISH, SURFACE MOL 6. FRAMELESS STAINLESS STEEL MIRROR (BRADLEY 784-18x30, W/ NO.8 ARCHITECTUF 7. SURFACE MOUNTED SOAP DISPENCER (BRADLEY 6A00-11, SATIN STAINLESS STEEL
- 2. URINAL PARTITION (BRADLEY SOLID PLASTIC H.D.P.E. SERIES 700, SENTINEL) 3. GRAB BAR BRADLEY 812 11/2" STAINLESS STEEL W/ SATIN FINISH SEE ELEV'S FIR 4. TOILET TISSUE DISPENSER (DOUBLE ROLL) SURFACE MOUNTED (BRADLEY 5425)
- 1. TOILET PARTITION (BRADLEY SOLID PLASTIC H.D.P.E. SERIES 700, SENTINEL)





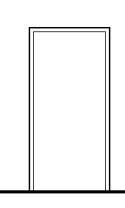




# (TYP.) ADA THRESHOLD DETAIL

| R         | F    | 200 | ОМ      | FI     | NIS        | SH                 | SC]                                      | HI        | EL | )U | LE                 |            |
|-----------|------|-----|---------|--------|------------|--------------------|------------------------------------------|-----------|----|----|--------------------|------------|
| R00       | ROC  | )M  |         |        |            |                    | FI                                       | <b>LO</b> | OR | ,  |                    | Τ          |
|           |      |     |         |        |            |                    |                                          |           | Τ  | Τ  |                    | T          |
|           |      | l   |         |        |            |                    |                                          |           |    |    |                    |            |
|           |      |     |         |        |            |                    |                                          |           |    |    |                    |            |
|           |      |     |         |        |            |                    |                                          |           |    |    |                    |            |
|           |      |     |         |        |            |                    | E                                        |           |    |    |                    |            |
|           |      |     |         |        |            |                    | AN<br>A                                  |           |    |    |                    |            |
|           |      |     |         |        |            |                    | Ľ ≻                                      |           |    |    |                    |            |
|           |      |     |         |        |            |                    | ы<br>В<br>С                              |           |    |    |                    |            |
|           |      | 1   |         |        |            |                    | N<br>N<br>N<br>N<br>N                    |           |    |    |                    |            |
|           |      | 1   |         |        |            |                    | Ц                                        |           |    |    |                    |            |
|           |      | 1   |         |        |            |                    | EXIST. CONCRET PAINTED<br>NON-SLIP EPOXY |           |    |    |                    | <u> </u> ! |
|           |      |     |         |        |            |                    | ХÖ                                       |           |    |    |                    |            |
| 100       | 100  | LA  | DIES R  | ESTR   | ООМ        |                    | •                                        | +         | +  | +  |                    | t          |
| 101       |      |     | en's re |        |            |                    | •                                        | +         | +  | +  |                    | 1          |
| 102       |      |     | ORRIDOF |        |            |                    | •                                        | +         | +  | +  |                    | $\dagger$  |
| 103       |      |     | NITOR   |        |            |                    |                                          | -         | +  | +  |                    | +          |
| 104       |      |     | ILET    |        |            |                    | •                                        | +         | +  | +  | ++                 | +          |
| 105       |      |     | ORAGE   |        |            |                    |                                          |           | +  | +  | +                  | +          |
| 105       |      |     | ACH LI  |        |            |                    | •                                        | +         | +  | +  | $\vdash$           | ┦          |
| 108       |      |     |         |        | ~1103      | UTT                | -                                        | +         | +  | +  | $\vdash$           |            |
| 107       | 107  |     | RRIDU   | π      |            |                    | <br>•                                    | +         | +  |    | $\vdash$           | -          |
|           |      |     | SIZE    |        |            | REINFORCED PLASTIC | <u>rer</u>                               |           |    |    | REINFORCED PLASTIC | 1          |
| MARK      | MARK |     |         |        | tess       | LASS REI           |                                          |           |    |    |                    |            |
| DOOR MARK | DOOR |     | WIDTH   | HEIGTH | THICKNESS  | FIBERGLASS         |                                          |           |    |    | FIBERGLASS         |            |
| 100       | 100  | 1   | 3'0"    | 6'8"   | 13⁄4"      | •                  |                                          | Τ         |    |    |                    |            |
| 101       | 101  | 1   | 3'0"    | 6'8"   | 13⁄4"      | •                  |                                          |           |    |    | •                  | T          |
| 102       | 102  | 1   | 3'0"    | 6'8"   | 13⁄4"      | •                  |                                          |           |    |    | •                  | Ť          |
| 103       |      | 1   | 2'6"    | 6'8"   | 13⁄4"      | •                  |                                          | $\top$    | 1  |    | •                  | 1          |
| 104       |      | 1   | 2'8"    | 6'8"   | 13⁄4"      | •                  |                                          | +         | 1  |    |                    | $\dagger$  |
| 105       |      | 1   | 3'0"    | 6'8"   | 13⁄4"      | •                  |                                          | +         | +  | +  |                    | +          |
| 106       |      |     | 3'0"    | 6'8"   | 13⁄4"      | •                  |                                          | +         | +  | +  |                    | ┥          |
| 107       |      |     | 3'0"    | 6'8"   | 134<br>134 | •                  |                                          | +         | +  | +  |                    | +          |
|           | ,    | +   |         |        | 174        |                    | -+                                       | +         | +  | +  | ┢┻┿                | -          |
|           |      |     |         |        |            |                    |                                          |           |    |    |                    |            |

NOTE: SEE TYPICAL ADA THRESHOLD DETAIL THIS SHEET FOR HANDICAP ACCESSABLE THRESHOLD



Α FLUSH DOOR

- IMPACT RATED STAINLESS STEEL DOOR ADA ACCESSIBLE THRESHOLD — 1⁄2" ELEVATION CHANGE (MAX.)

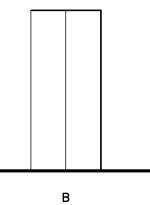
- FLOOR FINISH VARIES (SEE FINISH SCHEDULE)

WATER TIGHT COPPER TRAY W/ — 6" STRIP OF BITUTHENE 4000 MEMBRANE STUCK TO UNDERNEATH OF TRAY - EXPANSION JOINT

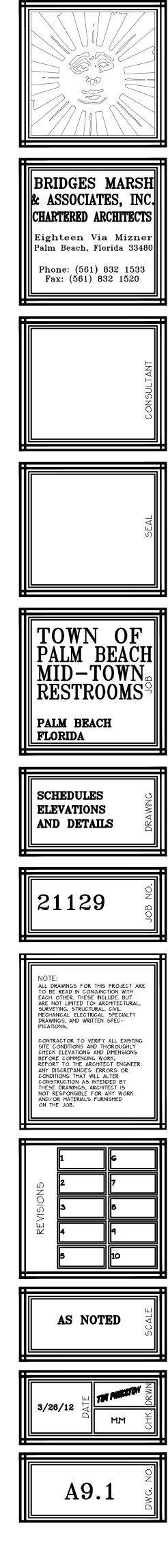
- NEW CONCRETE LANDING

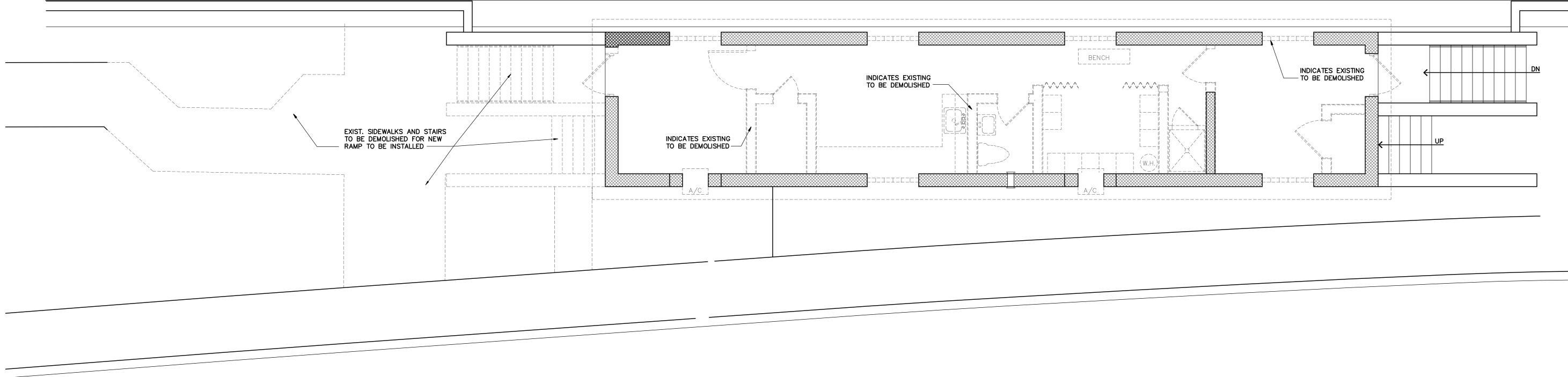


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BI-FOLD FULL LOUVERED





# DEMOLITION PLAN

# SHEET LEGEND

= INDICATES EXISTING EXTERIOR WOOD FRAMING TO REMAIN = INDICATES EXISTING TO DEMOLISH

# **DEMOLITION NOTES FOR REMODELING**

# <u>REQUIREMENTS</u>

- 1. WORK INCLUDED:
- A. REMOVE DESIGNATED BUILDING EQUIPMENT AND FIXTUR
- B. REMOVE DESIGNATED PARTITIONS AND COMPONENTS. C. CAP AND IDENTIFY EXPOSED UTILITIES.
- D. PROVIDE TEMPORARY PARTITIONS TO ALLOW CONTINUE BUILDING OCCUPANCY BY OWNER.

# PROTECTION

- 1. DO NOT INTERFERE WITH USE OF ADJACENT BUILDINGS. FREE AND SAFE PASSAGE TO AND FROM.
- 2. PREVENT MOVEMENT AND SETTLEMENT OF STRUCTURES. AND PLACE BRACING OR SHORING AND BE RESPONSIBLE AND SUPPORT OF STRUCTURE. ASSUME LIABILITY FOR SU SETTLEMENT, DAMAGE, OR INJURY.
- 3. CEASE OPERATIONS AND NOTIFY ARCHITECT IMMEDIATELY SAFETY OF STRUCTURE APPEARS TO BE ENDANGERED. PRECAUTIONS TO PROPERLY SUPPORT STRUCTURE. DO N OPERATIONS UNTIL SAFETY IS RESTORED.
- 4. PROVIDE, ERECT, AND MAINTAIN BARRICADES, LIGHTING, GUARD RAILS AS REQUIRED BY APPLICABLE REGULATORY TO PROTECT OCCUPANTS OF BUILDING AND WORKERS.

# EXISTING SERVICES

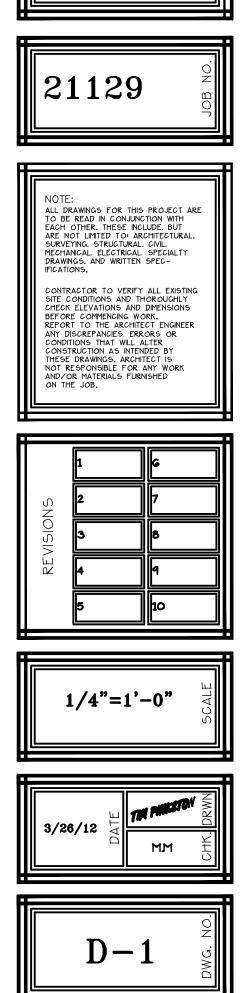
- 1. ARRANGE AND PAY FOR DISCONNECTING, REMOVING AND UTILITY SERVICES WITHIN AREAS OF DEMOLITION. DISCONN AND STUB OFF. NOTIFY THE AFFECTED UTILITY COMPANY ADVANCE AND OBTAIN APPROVAL BEFORE STARTING THIS
- 2. PLACE MARKERS TO INDICATE LOCATION OF DISCONNECTE SERVICES. IDENTIFY SERVICE LINES AND CAPPING LOCATION PROJECT RECORD DOCUMENTS.

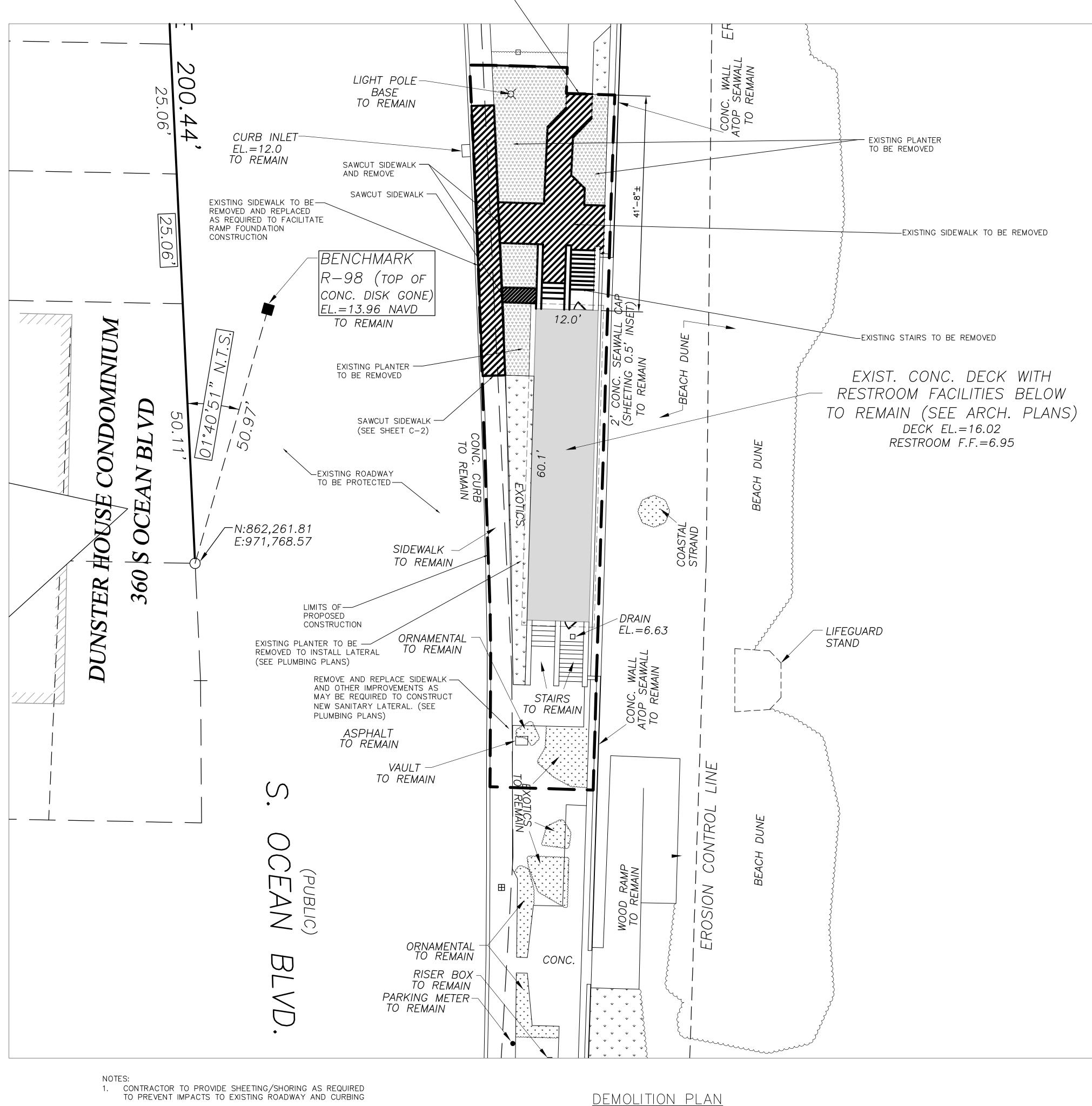
# PRODUCTS

- 1. EXCEPT WHERE NOTED OTHERWISE, MAINTAIN POSSESSION MATERIALS BEING DEMOLISHED. IMMEDIATELY REMOVE FRO
- 2. CAREFULLY REMOVE, STORE AND PROTECT FOR RE-INSTA MATERIALS TO BE REUSED



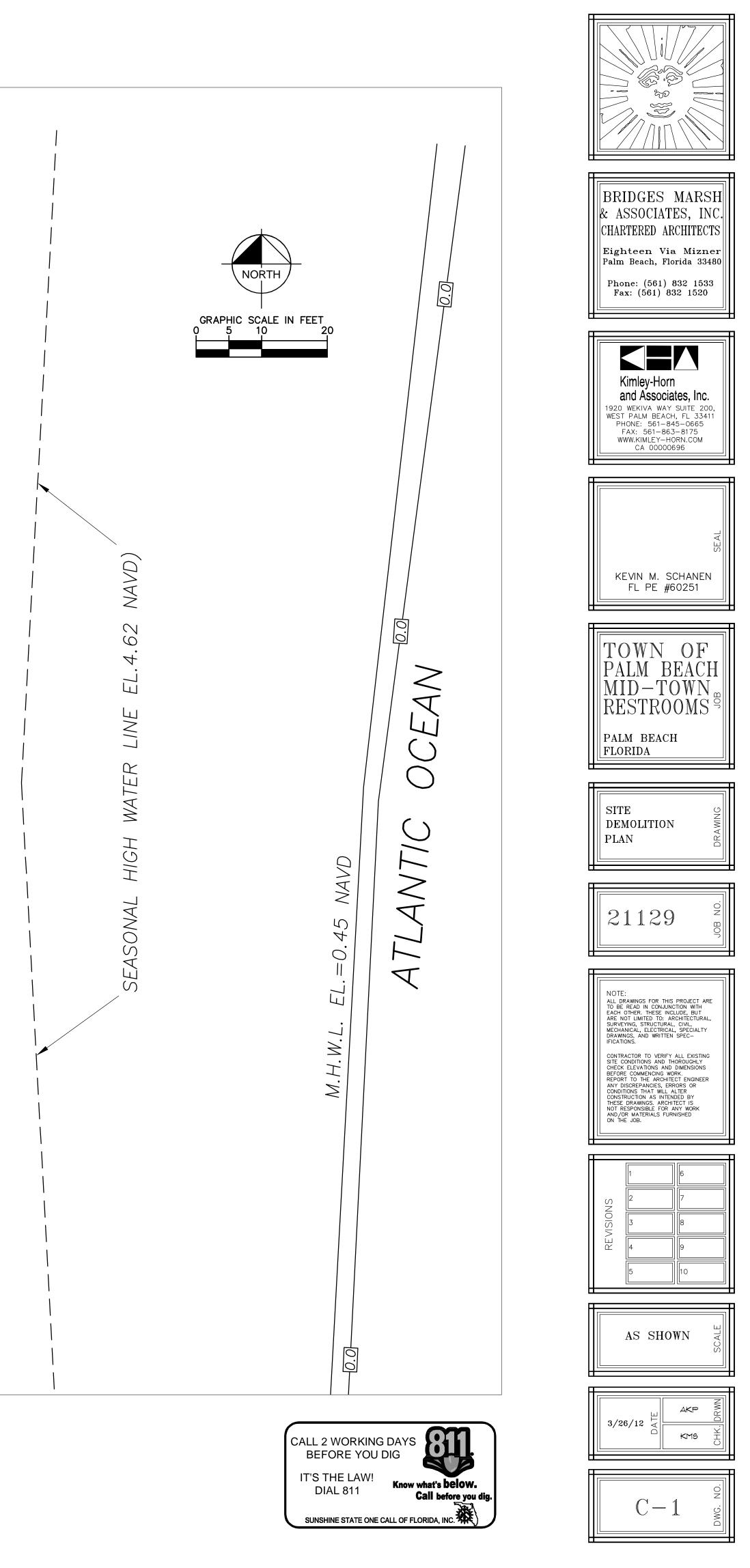
|                                              | EXECUTION                                                                                                                                                                                                                                       |                                                                         |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
|                                              | 1. ERECT WEATHERPROOF CLOSURES FOR EXTERIOR OPENINGS.<br>MAINTAIN EXIT REQUIREMENTS                                                                                                                                                             |                                                                         |
| URES.<br>UED                                 | 2. ERECT AND MAINTAIN DUSTPROOF PARTITIONS AS REQUIRED TO<br>PREVENT SPREAD OF DUST, FUMES AND SMOKE TO OTHER PARTS OF<br>THE BUILDING. ON COMPLETION, REMOVE PARTITIONS AND REPAIR<br>DAMAGED SURFACES TO MATCH ADJACENT SURFACES.             |                                                                         |
|                                              | 3. PROVIDE PROPER PROTECTION FROM FALLING OBJECTS OVER<br>ENTRANCES WHICH ARE TO BE KEPT OPEN DURING NORMAL WORKING<br>HOURS.                                                                                                                   | BRIDGES MARSH<br>& ASSOCIATES, INC.                                     |
| MAINTAIN                                     | 4. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIENCE<br>TO ADJACENT OCCUPIED BUILDING AREAS AS POSSIBLE.                                                                                                                               | CHARTERED ARCHITECTS<br>Eighteen Via Mizner                             |
| . PROVIDE<br>LE FOR SAFETY<br>SUCH MOVEMENT, | DEMOLITION                                                                                                                                                                                                                                      | Palm Beach, Florida 33480<br>Phone: (561) 832 1533                      |
| LY, IF<br>TAKE                               | <ol> <li>DEMOLISH IN AN ORDERLY AND CAREFUL MANNER AS REQUIRED TO<br/>ACCOMMODATE NEW WORK, INCLUDING THAT REQUIRED FOR<br/>CONNECTION TO THE EXISTING BUILDING. PROTECT EXISTING<br/>FOUNDATIONS AND SUPPORTING STRUCTURAL MEMBERS.</li> </ol> | Fax: (561) 832 1520                                                     |
| NOT RESUME                                   | 2. REPAIR ALL DEMOLITION PERFORMED IN EXCESS OF THAT<br>REQUIRED, AT NO COST.                                                                                                                                                                   |                                                                         |
| , AND<br>RY ADVISORY                         | 3. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.                                                                                                                                                                                               | ANT                                                                     |
|                                              | 4. REMOVE FROM SITE, CONTAMINATED, VERMIN INFESTED OR<br>DANGEROUS MATERIALS ENCOUNTERED AND DISPOSE OF BY SAFE<br>MEANS SO AS NOT TO ENDANGER HEALTH OF WORKERS AND PUBLIC                                                                     | CONSULTANT                                                              |
| ID CAPPING<br>NNECT<br>IY IN<br>IIS WORK.    | 5. REMOVE DEMOLISHED MATERIALS, TOOLS AND EQUIPMENT FROM SITE<br>UPON COMPLETION OF WORK. LEAVE SITE IN A CONDITION<br>ACCEPTABLE TO THE OWNER.                                                                                                 |                                                                         |
| CTED<br>TIONS ON                             |                                                                                                                                                                                                                                                 | SEAL                                                                    |
| ON OF<br>ROM SITE.                           |                                                                                                                                                                                                                                                 |                                                                         |
| STALLATION                                   |                                                                                                                                                                                                                                                 |                                                                         |
|                                              |                                                                                                                                                                                                                                                 | TOWN OF<br>PALM BEACH<br>MID-TOWN<br>RESTROOMS<br>PALM BEACH<br>FLORIDA |
|                                              |                                                                                                                                                                                                                                                 |                                                                         |
|                                              | DICATES EXISTING<br>D BE DEMOLISHED                                                                                                                                                                                                             | DEMOLITION<br>PLAN                                                      |

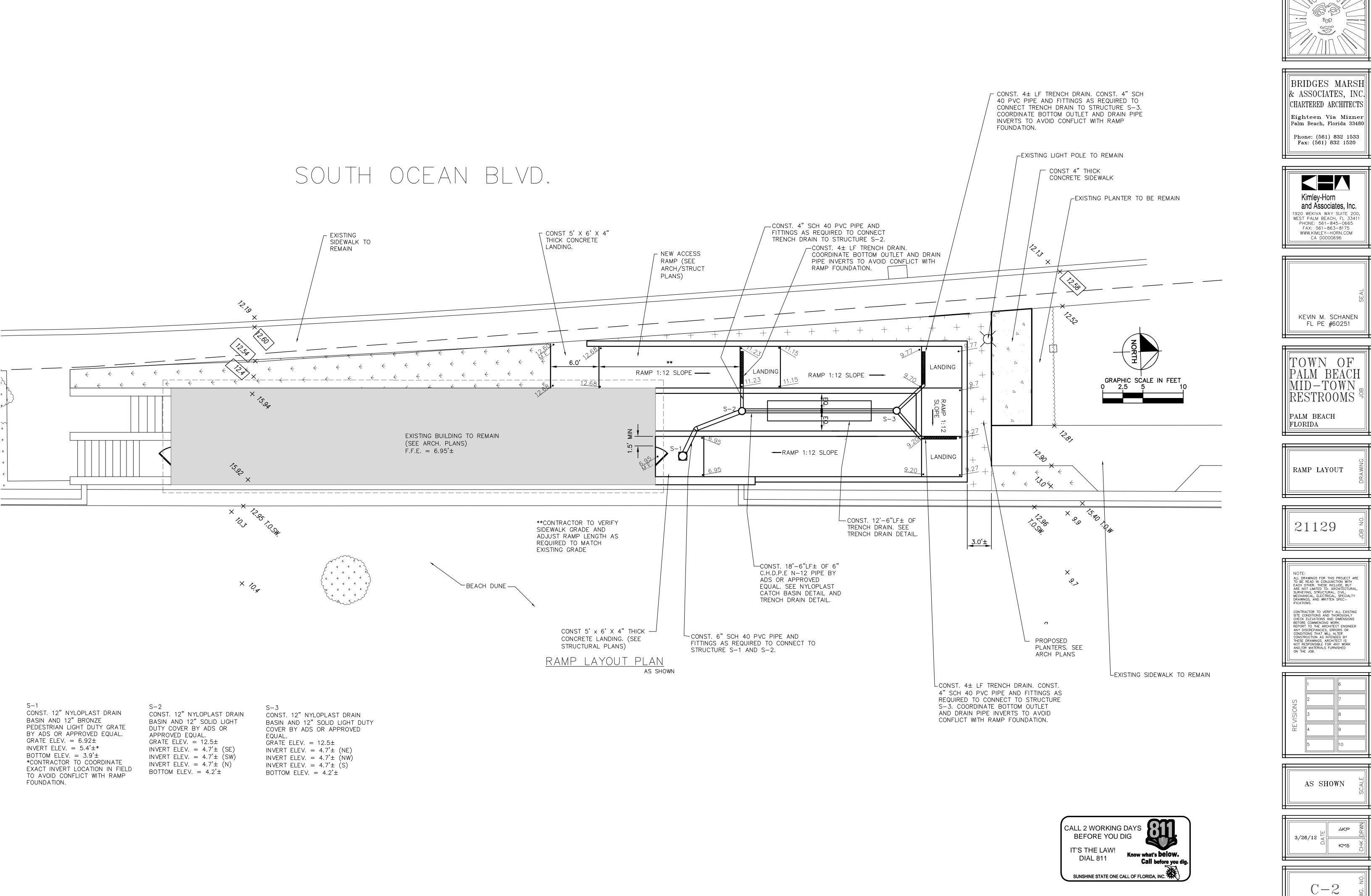




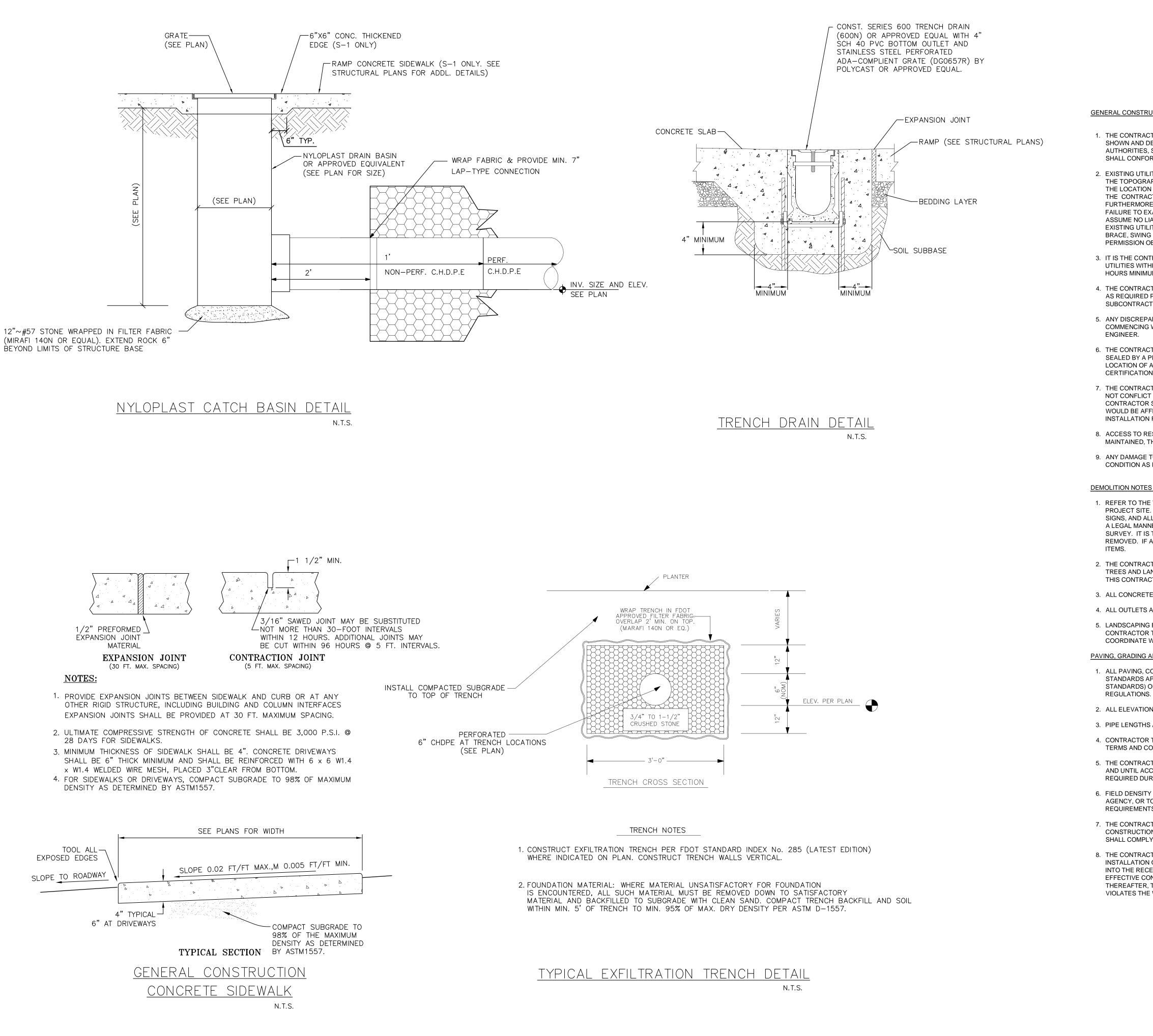
TO PREVENT IMPACTS TO EXISTING ROADWAY AND CURBING

AS SHOWN





| S-3                            |
|--------------------------------|
| CONST. 12" NYLOPLAST DRAIN     |
| BASIN AND 12" SOLID LIGHT DUTY |
| COVER BY ADS OR APPROVED       |
| EQUAL.                         |
| GRATE ELEV. = $12.5\pm$        |
| INVERT ELEV. = $4.7' \pm (NE)$ |
| INVERT ELEV. = $4.7' \pm (NW)$ |
| INVERT ELEV. = $4.7' \pm (S)$  |
| BOTTOM ELEV. = $4.2'\pm$       |



# GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITIES AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. ALL WORK SHALL BE PERFORMED IN A PROFESSIONAL MANNER AND SHALL CONFORM WITH ALL APPLICABLE CITY, COUNTY, STATE, AND FEDERAL REGULATIONS AND/OR CODES.

2. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS, LICENSES, AND BONDS AS REQUIRED PRIOR TO CONSTRUCTION. CONTRACTOR SHALL OBTAIN COPIES OF AND FAMILIARIZE HIMSELF AND HIS SUBCONTRACTORS WITH THE PERMIT CONDITIONS OF ALL OWNER OBTAINED PERMITS FOR THE WORK.

5. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTORS RESPONSIBILITY.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER/ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER/ENGINEER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.

8. ACCESS TO RESIDENCES SHALL BE MAINTAINED TO THE GREATEST EXTENT PRACTICAL. WHEN ACCESS CANNOT BE MAINTAINED, THE TIME OF NON-ACCESS SHALL BE MINIMIZED AND CLOSELY COORDINATED WITH THE PROPERTY OWNER.

9. ANY DAMAGE TO PRIVATE PROPERTY MADE BY THE CONTRACTOR SHALL BE PROMPTLY REPAIRED TO AN EQUAL OR BETTER CONDITION AS IT WAS BEFORE COMMENCEMENT OF THE WORK.

1. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING STRUCTURES, SLABS, PIPES, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID

2. THE CONTRACTOR SHALL REFER TO THE PLANS FOR DEMOLITION/PRESERVATION OF EXISTING TREES AND LANDSCAPING. ALL TREES AND LANDSCAPING NOT SPECIFICALLY SHOWN TO BE REMOVED OR RELOCATED SHALL BE PRESERVED AS A PART OF THIS CONTRACT. TREE/LANDSCAPING PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEMOLITION.

3. ALL CONCRETE WITHIN SAWCUT LIMITS TO BE REMOVED UNLESS OTHERWISE NOTED ...

4. ALL OUTLETS AND ELECTRICAL CONDUITS AND SERVICES TO REMAIN AND BE PROTECTED.

5. LANDSCAPING ELEMENTS, TREES, ETC. MAY REQUIRE TEMPORARY RELOCATION TO COMPLETE THE WORK AS SHOWN. CONTRACTOR TO STORE, PROTECT, AND REINSTALL THESE ITEMS UPON COMPLETION OF THE WORK. CONTRACTOR TO COORDINATE WITH PROPERTY OWNER FOR REMOVAL/REINSTALLATION OF THESE ITEMS.

PAVING, GRADING AND DRAINAGE NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN THE RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH STANDARDS APPLICABLE TO PUBLIC RIGHTS-OF-WAY STANDARDS AND EASEMENTS WITHIN THE TOWN OF PALM BEACH (TOWN'S STANDARDS) OR FDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY

2. ALL ELEVATIONS SHOWN REFER TO NAVD 1988.

3. PIPE LENGTHS ARE MEASURED FROM THE INSIDE WALL OF THE STRUCTURE, UNLESS OTHERWISE NOTED.

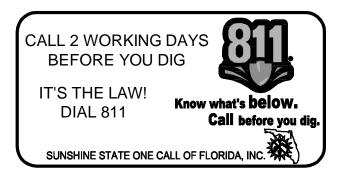
4. CONTRACTOR TO APPLY FOR AND MAINTAIN APPROPRIATE DEWATERING PERMIT(S) FOR GOVERNING AGENCIES AND ABIDE BY TERMS AND CONDITIONS OF PERMITS DURING CONSTRUCTION.

5. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.

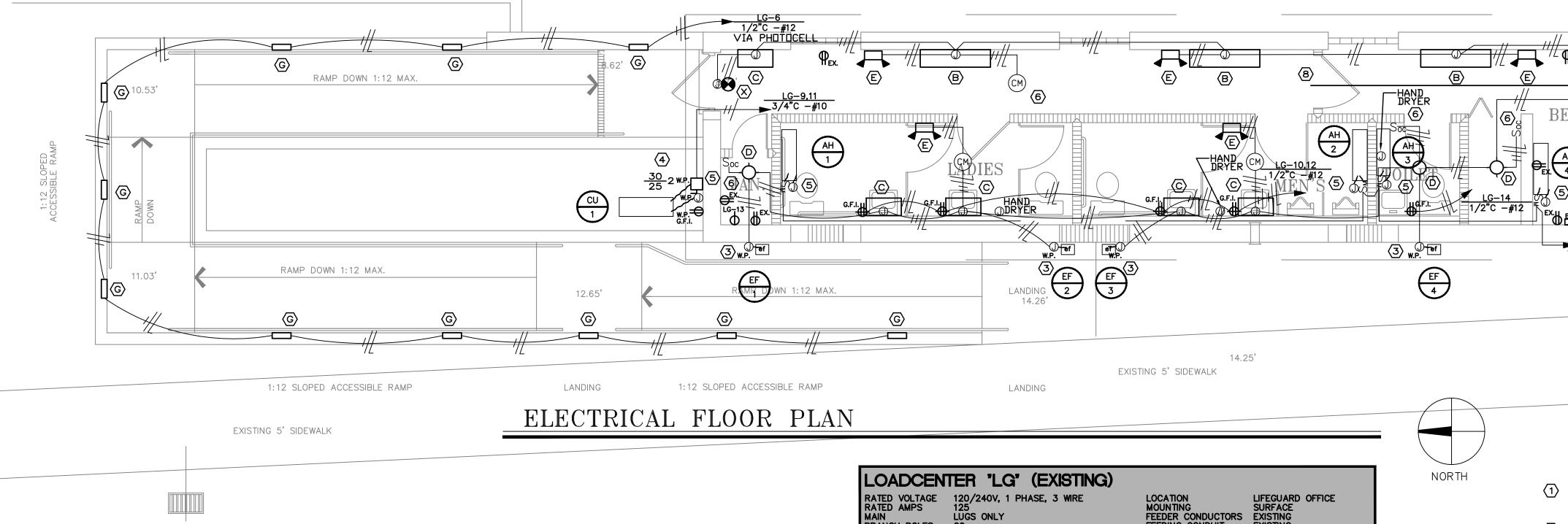
6. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH SPECIFICATIONS, THE LOCAL JURISDICTIONAL AGENCY, OR TO FDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT REQUIREMENT SHALL GOVERN.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

8. THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTER 17-302, FLORIDA ADMINISTRATIVE CODE.



| BRIDGES MARSH<br>& ASSOCIATES, INC.<br>CHARTERED ARCHITECTS<br>Eighteen Via Mizner<br>Palm Beach, Florida 33480<br>Phone: (561) 832 1533<br>Fax: (561) 832 1520                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Kimley-Horn<br>and Associates, Inc.<br>1920 WEKIVA WAY SUITE 200,<br>WEST PALM BEACH, FL 33411<br>PHONE: 561–845–0665<br>FAX: 561–863–8175<br>WWW.KIMLEY-HORN.COM<br>CA 00000696                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| KEVIN M. SCHANEN<br>FL PE #60251                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TOWN OF<br>PALM BEACH<br>MID-TOWN<br>RESTROOMS<br>PALM BEACH<br>FLORIDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| CIVIL MAY<br>DETAILS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| CIVIL<br>DETAILS<br>21129                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 21120 <sup>o</sup> z                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| NOTE:<br>ALL DRAWINGS FOR THIS PROJECT ARE<br>TO BE READ IN CONJUNCTION WITH<br>EACH OTHER. THESE INCLUDE, BUT<br>ARE NOT LIMITED TO: ARCHITECTURAL,<br>SURVEYING, STRUCTURAL, CIVIL,<br>MECHANICAL, ELECTRICAL, SPECIALTY<br>DRAWINGS, AND WRITTEN SPEC-<br>IFICATIONS.<br>CONTRACTOR TO VERIFY ALL EXISTING<br>SITE CONDITIONS AND THOROUGHLY<br>CHECK ELEVATIONS AND DIMENSIONS<br>BEFORE COMMENCING WORK.<br>REPORT TO THE ARCHITECT ENGINEER<br>ANY DISCREPANCIES, ERRORS OR<br>CONDITIONS THAT WILL ALTER<br>CONSTRUCTION AS INTENDED BY<br>THESE DRAWINGS. ARCHITECT IS<br>NOT RESPONSIBLE FOR ANY WORK<br>AND/OR MATERIALS FURNISHED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Image: Construction of the second |
| NOTE:         ALL DRAWNGS FOR THIS PROJECT ARE         TO BE READ IN CONJUNCTION WITH         EACH OTHER. THISE INCLURAL, SURVEYING, STRUCTURAL, CIVIL,         SURVEYING, STRUCTURAL, CIVIL,         WECHANICAL, ELECTRICAL, SPECIALTY         DRAWNOSS, AND WRITTEN SPEC-         IFICATIONS.         CONTRACTOR TO VERIFY ALL EXISTING         SEFORE COMMENCING WORK.         REPORT TO THE ARCHITECT ENGINEER         AND/OR MATERIALS FURNISHED         NOT RESPONSIBLE FOR ANY WORK         AND/OR MATERIALS FURNISHED         NOT HE JOB.         I       6         I       6         I       1         I       6         I       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |



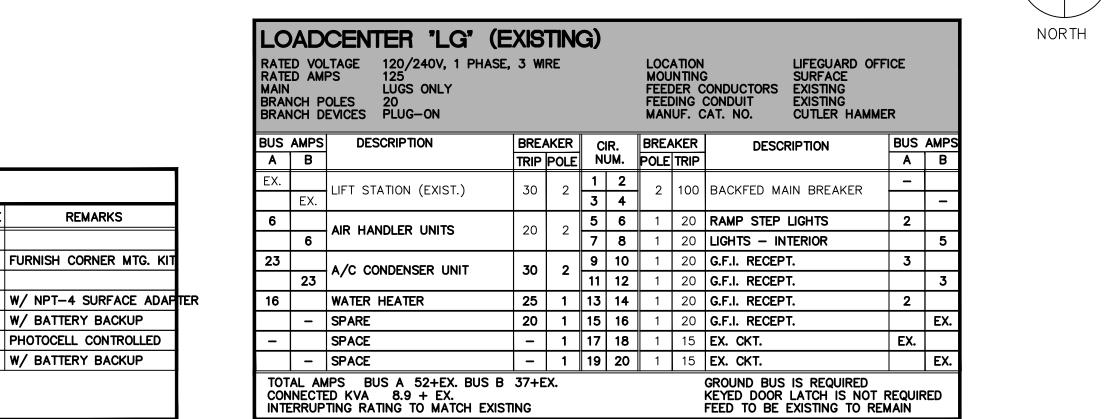
|      |        |                            | LIGHTING FIXTURE SCH                   | IEDULE   |               |         |      |
|------|--------|----------------------------|----------------------------------------|----------|---------------|---------|------|
| TYPE | VENDOR | CATALOG NUMBER             | DESCRIPTION                            | MOUNTING | LAMP          | VOLTAGE |      |
| A    | KENALL | MLHA48FMWCP228RS1120CDF    | 1'X4' FLUORESCENT FIXTURE              | SURFACE  | 2-F28T5 SP35  | 120V    |      |
| В    | KENALL | MLHA48FMWCP228RS1120CDFCMB | TYPE 'A' W/ CORNER MOUNTING BRACKET    | SURFACE  | 2-F28T5 SP35  | 120V    | FUR  |
| С    | KENALL | MLHA24FMWCP217RS1120CDFCMB | 1'X2' FLUORESCENT FIXTURE W/ CNR. BRK1 | .SURFACE | 2-F17TI SP35  | 120V    |      |
| D    | KENALL | MR13FLPPMW131120/NPT-4     | SURFACE ROUND FLUORESCENT FIXTURE      | SURFACE  | 1-PL13TT SP35 | 120V    | W/   |
| E    | KENALL | METELHC48NMW212H120        | EGRESS LIGHT FIXTURE                   | SURFACE  | 2-12W HALOGEN | 120V    | W/   |
| G    |        |                            | LOUVERED STEP LIGHT                    | RECESSED | FLOUR.        | 120V    | PHO  |
| Х    | KENALL | METDUMWG120EL              | EMERGENCY EXIT SIGN                    | SURFACE  | L.E.D.        | 120V    | W/ I |
|      |        |                            |                                        |          |               |         |      |
|      |        |                            |                                        |          |               |         |      |

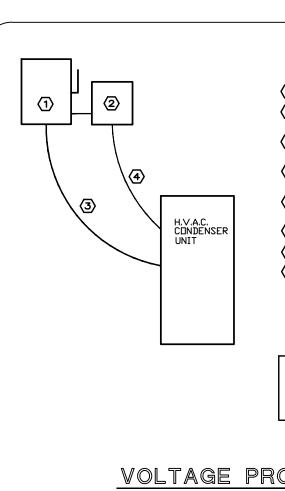
| LIGHT          | FIXTURE LEGEND                                                   |
|----------------|------------------------------------------------------------------|
| SYMBOL         | DESCRIPTION                                                      |
|                | RECESSED FLUORESCENT FIXTURE -<br>DIMENSIONS AS INDICATED        |
|                | SURFACE MOUNTED FLUORESCENT FIXTURE -<br>DIMENSIONS AS INDICATED |
| ⊢@I            | STRIP FLUORESCENT FIXTURE -<br>LENGTHS AS INDICATED              |
| Ø              | RECESSED DOWNLIGHT FIXTURE.                                      |
|                | RECESSED ADJUSTABLE FIXTURE - WALL WASH                          |
| ¢              | SURFACE MOUNTED LIGHT FIXTURE                                    |
| Ą              | WALL MOUNTED LIGHT SCONCE FIXTURE                                |
|                | CEILING MOUNTED PADDLE FAN.<br>(RAYS = FAN W/ LIGHT KIT).        |
| 0              | LINEAR LIGHTING TRACK - LENGTH AS SHOWN.                         |
| 0              | LINEAR UNDERCABINET LIGHT FIXTURE.                               |
| E <sub>F</sub> | EXHAUST FAN                                                      |
| T              | REMOTE TRANSFORMER FOR LOW-VOLTAGE<br>LIGHT FIXTURES OR TRACK    |
| L.V.           | LOW-VOLTAGE LIGHT FIXTURE/TRACK.                                 |
| V.P.           | WET-LOCATION VAPOR-TIGHT LIGHT FIXTURE.                          |
| EM.            | LIGHT FIXTURE WITH STANDBY POWER SOURCE.                         |

| WI                                                                      | RING DEVICES LEGEND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BRAN       | ICH CIRCUITING LEGEND:                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SYMBOL                                                                  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SYMBOL     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| SYMBOL<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S | DESCRIPTION<br>SINGLE POLE LIGHT SWITCH – 20A., 120V.<br>3–WAY LIGHT SWITCH – 20A., 120V.<br>4–WAY LIGHT SWITCH – 20A., 120V.<br>DOOR JAMB LIGHT SWITCH – 20A., 120V.<br>DOOR JAMB LIGHT SWITCH – WATTAGE AS NOTED.<br>REMOTE 3–WAY LIGHTING SWITCH FOR DIMMER<br>SPEED CONTROL SWITCH FOR CEILING FAN<br>HALF–SWITCHED FLOOR RECEPTACLE – 20A., 125V.<br>DUPLEX RECEPTACLE – 20A., 125V.<br>SIMPLEX RECEPTACLE – 20A., 125V.<br>QUAD (DOUBLE DUPLEX) RECEPTACLE – 20A., 125V.<br>HALF–SWITCHED DUPLEX RECEPTACLE – 20A., 125V.<br>DUPLEX RECEPTACLE MTD. ABOVE COUNTER<br>FLOORBOX WITH DUPLEX RECEPTACLE – 20A., 125V.<br>30 A., 120/240V. POWER RECEPTACLE – 20A., 125V.<br>30 A., 120/240V. POWER RECEPTACLE<br>POWER RECEPTACLE – NEMA RATING AS NOTED.<br>SURFACE MTD. PLUGMOLD – LENGTHS AS SHOWN.<br>ISOLATED GROUND RECEPTACLE<br>GROUND FAULT (G.F.C.I.) PROTECTED RECEPTACLE<br>RECEPTACLE WITH IN–USE WEATHERPROOF COVER.<br>RECEPTACLE ON DEDICATED BRANCH CIRCUIT.<br>GENERAL USE RECEPTACLE – TAMPER PROOF.<br>RECESSED CLOCK RECEPTACLE.<br>ARC FAULT (A.F.C.I.) PROTECTED RECEPTACLE. | SYMBOL<br> | DESCRIPTION<br>CONDUIT/CIRCUIT CONCEALED IN WALL OR CEILING.<br>CONDUIT UNDER FLOOR OR BELOW GRADE.<br>CONDUIT/CIRCUIT EXPOSED TO VIEW.<br>BRANCH CIRCUIT HOMERUN DESIGNATION<br>BRANCH PANEL & CIRCUIT BREAKER SLOTS<br>CONDUIT & CONDUCTOR SIZE FOR HOMERUN<br>CIRCUIT CONDUCTORS DESIGNATION<br>NEUTRAL CONDUCTOR(S)<br>EQUIPMENT GROUNDING CONDUCTOR (TBL. 250–122)<br>UNE VOLTAGE CONDUCTORS (LINE, LOAD,<br>SWITCH LEGS, TRAVELERS, ETC.) |
| SPD<br>B                                                                | SURGE (T.V.S.S.) PROTECTED RECEPTACLE.<br>RECEPTACLE MOUNTED HORIZONTALLY IN BASEBOARD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

NOT ALL DEVICES ARE USED ON EVERY PROJECT.

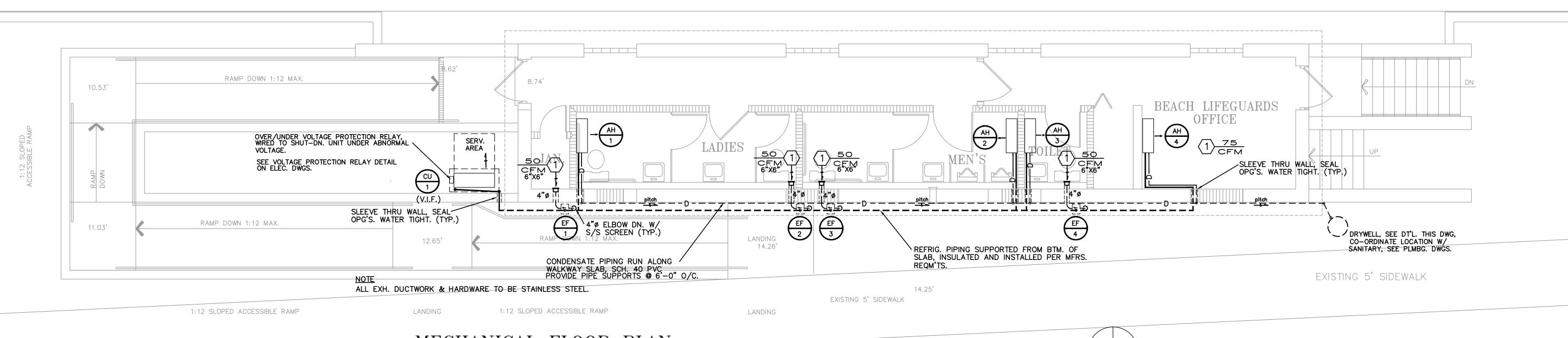
VERIFY ALL LIGHT FIXTURE TYPES AND LOCATIONS WITH LIGHT FIXTURE SCHEDULE AND/OR OWNER SPECIFIED LIGHTING PACKAGE.





| $\frac{H}{Ex}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | BRIDGES MARSH<br>& ASSOCIATES, INC.<br>CHARTERED ARCHITECTS<br>Eighteen Via Mizner<br>Palm Beach, Florida 33480<br>Phone: (561) 832 1533<br>Fax: (561) 832 1520                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EXISTING 5' SIDEWALK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CONSULTANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ELECTRIC KEYNDIES:<br>(1) THE EXISTING ELECTRICAL SERVICE AND LOADCENTER SHALL REMAIN. ADD OR REMOVE BRANCH<br>CIRCUIT BREAKERS AS INDICATED OR REQUIRED TO ACCOMODATE THE SPECIFIED ELECTRICAL<br>REVISIONS.<br>(2) ALL SURFACE MOUNTED CONDUIT SHALL BE SCHEDULE 80 PVC CONDUIT. ALL FASTENERS AND<br>MOUNTING STRAPS SHALL BE CORROSION RESISTANT PLASTIC OR STAINLESS STEEL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SEAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <ul> <li>EXHAUST FANS MOUNTED ON EXTERIOR OF BUILDING SHALL BE FURNISHED WITH A DOUBLE-GANG FS-TYPE BOX WITH WEATHERPROOF COVER. FURNISH AND INSTALL A SAFETY DISCONNECT TOGGLE SWITCH AND THE FAN SPEED CONTROL (FURNISHED WITH/BY FAN SUPPLIER). SPECIFY CARLON #2FSE/E9U2VMG OR EQUAL. FANS SHALL BE CONNECTED TO THE DCCUPANCY CONTROLLED LIGHTING CIRCUITS LOCATED WITHIN THE RESPECTIVE INTERIOR SPACES SERVED BY THE FANS.</li> <li>FURNISH AND INSTALL NON-METALLIC FUSED SAFETY DISCONNECT AND LINE-VOLTAGE MONITOR AT H.V.A.C. CONDENSER UNIT. SPECIFY LEVITON DS30-FAX WITH ACCESSORY HUB. FURNISH FUSES IN ACCORDANCE WITH HVAC MANUFACTURER'S NAMEPLATE RECOMMENDATIONS. SEE DETAIL.</li> <li>FURNISH AND INSTALL 3/4' CONDUIT WITH PULL CORD FROM H.V.A.C. CONDENSER UNIT TO AIR HANDLER UNITS ON INTERIOR FOR CONTROL CABLING. CABLING SHALL BE INSTALLED BY MECHANICAL CONTRACTOR IN A DAISY CHAIN CONFIGURATION. ALL CONDUITS SHALL TERMINATE IN EITHER AN APPROVED JUNCTION BOX OR TO CONDUIT CONNECTION POINTS ON EQUIPMENT.</li> <li>FURNISH AND INSTALL DCCUPANCY SENSOR CONTROLS FOR CORRIDOR, RESTROOM AND ENCLOSED</li> </ul> | TOWN OF<br>PALM BEACH<br>MID-TOWN<br>RESTROOMS <sup>g</sup><br>PALM BEACH<br>FLORIDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <ul> <li>SPACE LIGHTING CIRCUITS. SPECIFY WATTSTOPPER LINE-VOLTAGE DUAL TECHNOLOGY SENSOR<br/>#DT-355 OR EQUIVALENT IN CEILING APPLICATIONS AND WATTSTOPPER #DW-100 OR EQUIVALENT<br/>IN WALL SWITCH LOCATIONS. MAXIMUM TIME DELAY SHALL BE SET AT 15-MINUTES.</li> <li>RETAIN EXISTING BRANCH CIRCUITS TO WIRING DEVICES (DUTLETS) TO REMAIN) AND TO LIFT<br/>STATION TO THE SOUTH. VERIFY ALL EXISTING CIRCUITS TO REMAIN. COORDINAT WITH PANEL<br/>SCHEDULE.</li> <li>FURNISH AND INSTALL ONE (1) 3/4" CONDUIT WITH PULL CORD FROM TELEPHONE DISTRIBUTION<br/>TO NORTH SIDE OF DOOR HEADER AS INDICATED. CAP FOR FUTURE USE.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ELECTRICAL FLOOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| VULTAGE RELAY NOTESI         ① CONDENSER UNIT SAFETY DISCONNEST. SEE PLANS.         ② VP RELAY ENCLOSURE V/ 3/4" NIPPLE TO DISC.         ③ POWER FEED TO CONDENSER UNIT V/ (2) #12         HNN CU EXTRA SEE PLANS.         ④ L.V. FEED TO CONDENSER UNIT V/ (2) #12         HNN CU EXTRA SEE PLANS.         ⑥ LINE VOLTAGE MONITOR - ICM CONTROLS #ICM492         SET FOR CONTROL MODE.         ⑧ LINE VOLTAGE MONITOR - ICM CONTROLS #ICM492         SET FOR CONTROL MODE.         ⑨ LIAD CONTACTS IN SAFETY DISCONNECT SWITCH.         ⑧ POWER INPUT CONTACTS IN CONDENSER UNIT.         ⑨ LIAD CONTACTS IN CONDENSER UNIT.         Ø LIAD CONTACTS IN CONDENSER UNIT.         Ø LIAD CONTACTS IN CONDENSER UNIT.         Ø POWER INPUT CONTACTS IN CONDENSER UNIT.         Ø ELECTRICIAN SHALL COORDINATE INSTALLATION OF                                                                                                                                                                                                                                                                                                                          | 211129<br>NOTE:<br>ALL DRAWINGS FOR THIS PROJECT ARE<br>TO BE READ IN CONJUNCTION WITH<br>EACH OTHER. THESE INCLUDE, BUT<br>ARE NOT LIMITED TO: ARCHITECTURAL,<br>SURVEYING, STRUCTURAL, CIVIL,<br>MECHANICAL, ELECTRICAL, SPECIALTY<br>DRAWINGS, AND WRITTEN SPEC-<br>IFICATIONS.<br>CONTRACTOR TO VERIFY ALL EXISTING<br>SITE CONDITIONS AND THOROUGHLY<br>CHECK ELEVATIONS AND DIMENSIONS<br>BEFORT TO THE ARCHITECT ENGINEER<br>ANY DISCREPANCIES, ERRORS OR<br>CONDITIONS THAT WILL ALTER<br>CONSTRUCTION AS INTENDED BY<br>THESE DRAWINGS, ARCHITECT IS<br>NOT RESPONSIBLE FOR ANY WORK<br>AND/OR MATERIALS FURNISHED<br>ON THE JOB. |
| VOLTAGE PROTECTION RELAY WITH MECHANICAL<br>CONTRACTOR/H.V.A.C. UNIT SUPPLIER. VERIFY ALL<br>CONNECTION POINTS FOR POWER AND CONTROL WIRING<br>WITHIN CONDENSER UNIT WITH SYSTEM SUPPLIER.<br>PROTECTIVE RELAY DETAIL - SINGLE PHASE<br>NOT TO SCALE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | I 6<br>2 7<br>3 8<br>4 9<br>5 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| JOB #1205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1/4"=1'-0" J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| MICHAEL A. TEELE, P.E.<br>ENGINEER OF RECORD<br>FLORIDA REGISTRATION<br>P.E. 32066                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3/26/12 H<br>MM H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| TEELE & ASSOCIATES<br>CONSULTING ENGINEERS<br>3894 EVANS ROAD<br>DELRAY BEACH, FLORIDA 33445 (561) 455-2438<br>CERT. OF AUTH. ND. 28712                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | E1.1 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

1:12 SLOPED ACCESSIBLE RAMP

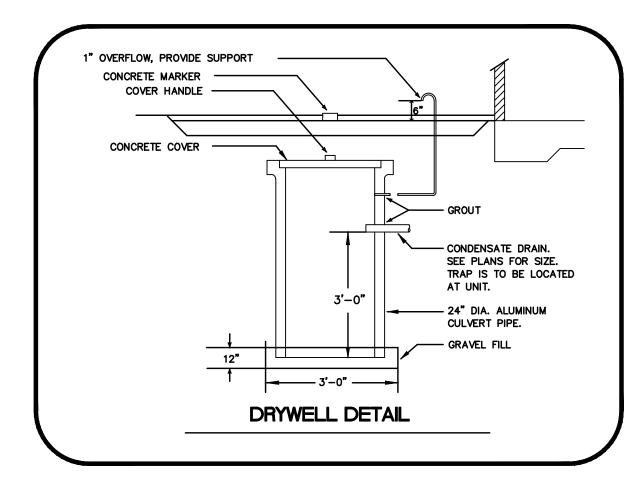


| UNIT MFGR. MODEL NUMBER CFM SP RPM WATTS ELECTRIC REQ. REMARKS |     |           |         |     |        | =  | rs. cu. | MECR  | MODEL NUMBER | UNIT CAPACITY ZONE CAPACITY FAN HEAT ELEC. REQ. |      |   |   |          |       |   |      | DIMENSIONS        | LOCATION         |
|----------------------------------------------------------------|-----|-----------|---------|-----|--------|----|---------|-------|--------------|-------------------------------------------------|------|---|---|----------|-------|---|------|-------------------|------------------|
| IT MFGR. MODEL NUMBER<br>D.                                    | CFM | SP RPM    |         |     |        |    | D. NO.  |       | IITSUBISHI   |                                                 |      |   |   | CFM H.P. |       |   | SEER |                   |                  |
| -1 FANTECH - FR100                                             | 50  | 0.20 2865 | 0.45 12 | D 1 | 1,2,3, | AH | 1 CU1   | MSZ – | FE09NA-8     | 9.0                                             | 6.75 | - | _ | 307      | - 240 | 1 | 23.0 | 31" X 10" X 11.5" | LADIES ROOM      |
| 1 FANTECH – FR100                                              | 50  | 0.20 2865 | 0.45 12 | D 1 | 1,2,3, | AF | 2 CU1   | MSZ – | FE09NA-8     | 9.0                                             | 6.75 | _ | - | 307      | - 240 | 1 | 23.0 | 31" X 10" X 11.5" | MENS ROOM        |
| 1 FANTECH – FR100                                              | 50  | 0.20 2865 | 0.45 12 | D 1 | 1,2,3, | AH | 3 CU1   | MSZ – | FE09NA-8     | 9.0                                             | 6.75 | - | - | 307      | - 240 | 1 | 23.0 | 31" X 10" X 11.5" | TOILET ROOM      |
| -1 FANTECH – FR100                                             | 50  | 0.20 2865 | 0.45 12 | D 1 | 1,2,3, | AF | 4 CU1   | MSZ – | FE09NA-8     | 9.0                                             | 6.75 | _ | _ | 307      | - 240 | 1 | 23.0 | 31" X 10" X 11.5" | LIFEGUARD OFFICE |

| GRILLE | AND | DIFFUSER | SCHEDULE |  |
|--------|-----|----------|----------|--|
|--------|-----|----------|----------|--|

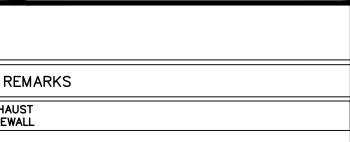
EXISTING 5' SIDEWALK

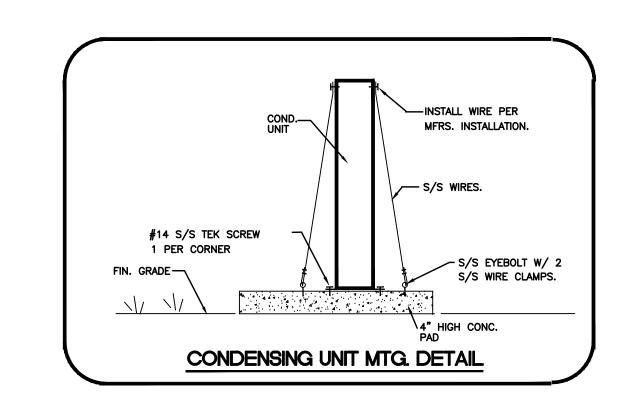
| DESIGN | . MFGR. MODEL NUMBER | SIZE     | DIRECTION | TYPE | FINISH | R             |
|--------|----------------------|----------|-----------|------|--------|---------------|
| 1      | TITUS – 4FL          | SEE PLAN | SEE PLAN  | 4    | WHITE  | EXHA<br>SIDEV |
|        |                      |          |           |      |        |               |



# MECHANICAL FLOOR PLAN

| HEDULE |  |
|--------|--|





# MECHANICAL

ALL A/C CONDENSER UNITS TO HAVE CORROSION PROTECTION INHIBITOR SYSTEM APPLIED BY AN INDEPENDENT COMPANY REGULARY ENGAGED IN THE BUSINESS OF CORROSION CONTROL PRODUCT APPLICATION. APPLICATION OF PRODUCTS TO FOLLOW MANUFACTURER'S APPLICATION GUIDELINES. APPROVED PRODUCTS: BENJAMIN-MOORE CM74-/M75 (ALIPHATIC ACRYLIC) ADSIL, INC. MICROGUARD AD35/AD40 APPROVED APPLICATORS: CORROSIVE SOLUTIONS, INC. (561) 752 9179 TRAVIS DARSCH

|            | CĆ          | NDENSING UNIT S                  | SCH        | HEDU                | LE |   |                           |     |                   |       |                 |
|------------|-------------|----------------------------------|------------|---------------------|----|---|---------------------------|-----|-------------------|-------|-----------------|
| CU.<br>NO. | SYS.<br>NO. | MFGR. MODEL NUMBER<br>MITSUBISHI | COM<br>NO. | PRESSOR<br>FLA (EA) |    | 1 | BRANCH CIR.<br>MCA / MOCP |     | RIC REQ.<br>PHASE | SIZE  | DIMENSIONS      |
| 1          | 1,2         | MXZ – 4B36NA–1                   | 1          |                     | 1  |   | 23 / 25                   | 240 | 1                 | 3.0 T | 13" X 35" X 35" |
|            |             |                                  |            |                     |    |   |                           |     |                   |       |                 |

# NOTE:

ALL A/C CONDENSER UNITS AND AHU COILS TO HAVE CORROSION PROTECTION INHIBITOR SYSTEM APPLIED BY AN INDEPENDENT COMPANY REGULARLY ENGAGED IN THE BUSINESS OF APPLYING CORROSION CONTROL PRODUCTS. APPLICATION OF PRODUCTS TO FOLLOW MANUFACTURERS APPLICATION GUIDELINES.

APPROVED PRODUCTS: BENJAMIN-MOORE CM74/M75 (ALIPHATIC ACRYLIC) ADSIL INC. MICROGUARD AD35/AD40

APPROVED APPLICATORS: CORROSIVE SOLUTIONS. INC. (561) 752-9179 TRAVIS DARSCH. CONTRACTOR TO SUBMIT DOCUMENTATION OF COMPLIANCE PRIOR TO DELIVERY OF EQUIPMENT TO THE JOB SITE.

VARIABLE REFRIGERANT FLOW SYSTEM EQUIPMENT SHALL BE WARRANTED BY THE MANUFACTURER'S LIMITED WARRANTY FOR A PERIOD OF (7) YEARS DATE OF INSTALLATION. AN EXTENDED WARRANTY OF 2 YEARS PARTS AND 6 YEARS COMPRESSOR AND COIL SHALL BE GRANTED UPON SUBMISSION TO THE MANUFACTURER AND ACCEPTANCE BY THE MANUFACTURER OF PROPER INSTALLATION WITH DOCUMENTATION INCLUDING: SELECTION OUTPUT AND LAYOUT OF THE SYSTEM (ALL COMPONENTS) 180 MINUTES OF OPERATIONAL HISTORY UPON COMMISSIONING FROM THE VRF SERVICE TOOL

COMPLETED COMMISSIONING REPORT BY THE EQUIPMENT MANUFACTURERS SERVICE DEPARTMENT. DURING THE COMMISSIONING PERIOD. ANY PART NOT FUNCTIONING PROPERLY SHALL BE REPAIRED/REPLACED AT THE MANUFACTURERS DISCRETION.

THE VARIABLE REFRIGERANT FLOW SYSTEM SHALL BE INSTALLED BY AN INSTALLER TRAINED AND CERTIFIED BY THE EQUIPMENT MANUFACTURER. INSTALLATION AND COMMISSIONING TRAINING SHALL BE REQUIRED BY THE EQUIPMENT MANUFACTURER. CONTRACTOR TO SUPPLY SUFFICIENT DOCUMENTATION WITH ENGINEERED SHOP DRAWINGS FOR VERIFICATION, REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO STARTING ANY EQUIPMENT INSTALLATION.

| F | BRIDGES MARSH<br>& ASSOCIATES, INC.<br>CHARTERED ARCHITECTS<br>Eighteen Via Mizner<br>Palm Beach, Florida 33480<br>Phone: (561) 832 1533<br>Fax: (561) 832 1520                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ē | CONSULTANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| F | SEAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| F | TOWN OF<br>PALM BEACH<br>MID-TOWN<br>RESTROOMS <sup>g</sup><br>PALM BEACH<br>FLORIDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| Ē | MECHANICAL<br>PLAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|   | MECHANICAL<br>PLAN<br>21129<br>g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|   | PLAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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|   | PLAN       Image: Construct of the second seco                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

M1.1

MICHAEL A. TEELE, P.E. ENGINEER OF RECORD FLORIDA REGISTRATION P.E. 32066

TEELE & ASSOCIATES CONSULTING ENGINEERS 3894 EVANS ROAD DELRAY BEACH, FLORIDA 33445 (561) 455-2438 CERT. OF AUTH. NO. 28712

DATE:

| SECTIO         | N 15000- HVAC, GENERAL                                                                                                                                                                                                                                                          | 1.07   | RECOR   | D DOCUMENT                                                                                                                                    |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| PART 1         | - GENERAL                                                                                                                                                                                                                                                                       |        | A.      | As-built drawi                                                                                                                                |
| 1.01 D         | ESCRIPTION                                                                                                                                                                                                                                                                      | 1.08   | GUARA   | ANTEE AND SE                                                                                                                                  |
| A.<br>B.<br>C. | This section applies to and governs all mechanical sections.<br>Refer to other Divisions for continuation of Exterior and allied work.<br>Field painting is specified in another division.                                                                                      | PART 2 | A.      | Refer to Gener                                                                                                                                |
|                | ORK INCLUDED                                                                                                                                                                                                                                                                    | 2.01   | GENER   | AL                                                                                                                                            |
| A.<br>1.03 QU  | Work under this division includes, but is not necessary limited to:<br>15000 General HVAC Specifications<br>15005 Operation and Maintenance Manuals<br>15651 Refrigerant Piping<br>15805 Insulation and Condensate Piping<br>ALITY ASSURANCE, CODES, ORIDNANCES AND REGULATIONS |        | Α.      | All materials a<br>and each syste<br>specified capar<br>requirements,<br>Architect/Engi<br>requirements a<br>replacements,<br>additional cost |
| A.             | All work shall comply with governing codes, ordinances, and regulations of City, County<br>and State having jurisdiction, and the National Electrical Code, Plumbing Code, and<br>requirements of Board of Health.                                                              |        | B.      | Where multipl<br>product of a sig                                                                                                             |
| B.             | Industry Standards and Codes: unless modified by these specifications, the design, manufacture, testing and method of installing all materials, apparatus and equipment shall conform to latest adopted editions of the following:                                              |        | C.      | Before orderin fit spaces allott                                                                                                              |
|                | <ol> <li>2007 Uniform Florida Building Code, Mechanical</li> <li>2007 Uniform Florida Building Code, Plumbing</li> <li>2008 National Electrical Code</li> </ol>                                                                                                                 |        | D.      | Inserts, pipe sl<br>provided as sp<br>concrete simila<br>time for the se                                                                      |
| 1.04 PE        | RMITS & FEES                                                                                                                                                                                                                                                                    |        | E.      | Piping assemb                                                                                                                                 |
| A.             | Obtain and pay for all permits, inspections and connection fees required by governing bodies in connection with the work. Deliver Certificates of Inspection to the Architect/Engineer.                                                                                         |        |         | piping and app<br>be provided.                                                                                                                |
| 1.05 SU        | BMITTALS                                                                                                                                                                                                                                                                        | 2.02   | MANUI   | FACTURERS' N                                                                                                                                  |
| A.             | Shop Drawings: Submit all materials, products, equipment and systems as specified under each HVAC Section in this Division in accordance with the General Conditions.                                                                                                           |        | А.      | Specific refere<br>model or catal                                                                                                             |
| B.             | Operation and Maintenance Certification: Submit copies in compliance with Section,<br>OPERATION AND MAINTENANCE MANUALS.                                                                                                                                                        |        | В.      | This does not i<br>"off the shelf"<br>modifications                                                                                           |
| 1.06 JO        | 3 CONDITIONS                                                                                                                                                                                                                                                                    |        |         | catalog numbe                                                                                                                                 |
| A.             | Protect materials, apparatus and equipment from damage, moisture, dirt, debris and work of other trades.                                                                                                                                                                        | 2.03   | DIAGR   | AMS, NAMEPL                                                                                                                                   |
| Β.             | Use of paper, cardboard or other flimsy material will not be permitted. Replace damaged protective materials immediately. Do not install damaged materials and equipment; remove from the site.                                                                                 |        | A.      | Each major co<br>and catalog nu<br>and control de                                                                                             |
|                |                                                                                                                                                                                                                                                                                 | PART 3 | - EXECU | UTION                                                                                                                                         |
|                |                                                                                                                                                                                                                                                                                 | 3.01   | INSTAI  | LLATION AND                                                                                                                                   |
|                |                                                                                                                                                                                                                                                                                 |        | А.      | The work shal<br>and equipment<br>apparatus or ea<br>improperly inst<br>additional cost                                                       |

| VTS                                                                                                                                           |      | В.          | The work shall be coordinated with the work of other trades. Where the work is dependent upon work of other trades or work already in place, such other work and | 3.09 FINAL INSPECTION                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| wings shall be delivered to the owner prior to final inspection                                                                               |      |             | work in place shall be examined and shall be in proper condition and state of                                                                                    | A. With notice to the                          |
| SERVICE                                                                                                                                       |      |             | completion before continuing the installation.                                                                                                                   | Contractor shall:<br>1. Submit test            |
| eral Conditions for Guarantee.                                                                                                                |      | C.          | The installation of the systems shall, in general, be inn accordance with the drawings with regards to location of equipment, ducts, pipes, and the like. Piping | 2. Submit lett                                 |
|                                                                                                                                               |      |             | and ductwork indicated shall be followed as accurately as actual construction will                                                                               | for operation                                  |
|                                                                                                                                               |      |             | permit and any deviations therefrom shall be called to the attention of the Architect/Engineer. Where necessary, as determined by the Architect/Engineer,        | B. Contractor shall fur                        |
|                                                                                                                                               |      |             | Contractor shall furnish drawings showing proposed changes.                                                                                                      | and assist with fina                           |
| s and equipment shall be new. Systems shall be provided complete,                                                                             | 3.02 | EARTI       | HWORK AND DEWATERING                                                                                                                                             |                                                |
| tem as a whole, and in all its part, shall function correctly up to the bacity. Should a system, or any part thereof fail to meet performance |      | ٨           | Contractor is to provide all exceptation for his installation                                                                                                    | 3.10 INSTRUCTION OF OW                         |
| s, necessary replacements, alterations or repairs, as required by the                                                                         |      | A.          | Contractor is to provide all excavation for his installation.                                                                                                    | A. The Contractor sha                          |
| gineer, shall be made to bring performance up to specified<br>s and all building construction and finishes damaged or marred by such          | 3.03 | CUTTI<br>A. | ING AND PATCHING<br>Layout opening for cutting by other trades as required.                                                                                      | Owner's operating<br>HVAC equipment            |
| s, alterations or repairs shall be restored to prior condition, at no                                                                         |      |             |                                                                                                                                                                  |                                                |
| ost to the Owner.                                                                                                                             |      | В.          | Cutting of steel, concrete or any other structural part must be approved in writing by Architect/Engineer prior to cutting.                                      | B. Instruction shall be<br>and systems are ins |
| ple items of equipment or materials are required they shall be the single manufacturer.                                                       | 3.04 | WATE        | RPROOFING                                                                                                                                                        | Contractor shall no                            |
| C C C C C C C C C C C C C C C C C C C                                                                                                         | 5.04 | WAIE        |                                                                                                                                                                  | C. Qualification of ins<br>manufacturer.       |
| ing any equipment, the size of all equipment shall be checked to easily otted on the drawings.                                                |      | A.          | Do not cut or penetrate waterproofed surfaces or waterproofing membranes,<br>without first making arrangements for repair by a method approved by the            | D. Additional requirer                         |
|                                                                                                                                               |      |             | Architect/Engineer.                                                                                                                                              | and systems any be                             |
| sleeves, supports and anchorage of air conditioning equipment shall be<br>specified herein. Where such items are to be set or embedded in     |      |             |                                                                                                                                                                  | E. Two copies of ackr                          |
| ilar work, the items shall be furnished and layout made at the proper<br>setting or embedment thereof so as to cause no delay in the work.    | 3.05 | ELECT       | TRICAL WORK                                                                                                                                                      | signed by the Own<br>Architect/Engineer        |
|                                                                                                                                               |      | A.          | Power wiring from panels to motor controllers and from controllers to motors is                                                                                  | this acknowledgem                              |
| blies of equipment shown on the drawings are diagrammatic. All ppurtenances required for the proper operation of all equipment shall          |      |             | specified in Division 16.                                                                                                                                        | required in the Sect                           |
|                                                                                                                                               |      | C.          | Submit Wiring diagrams for approval and provide diagrams so that the electrical work may be properly accomplished.                                               | SECTION END                                    |
| NAMES AND CATALOG NUMBERS                                                                                                                     |      |             | work may be property accomplished.                                                                                                                               |                                                |
| rences have been made to one or more manufacturers' names and                                                                                 |      | D.          | Electrical control wiring for connection of temperature controllers, push buttons, interlocks in motor controllers, pneumatic switches and like items is to be   |                                                |
| alog numbers.                                                                                                                                 |      |             | furnished and installed under Division 15.                                                                                                                       |                                                |
| t indicate that the material and equipment specified is necessarily an                                                                        |      | E.          | Furnish all equipment with complete internal control wiring.                                                                                                     |                                                |
| f" item; requirements of specific finishes, materials or other<br>as may introduce variances from manufacturers' names and model or           | 3.06 | SUPPO       | ORTS FOR PIPING AND EQUIPMENT                                                                                                                                    |                                                |
| bers.                                                                                                                                         | 5.00 |             |                                                                                                                                                                  |                                                |
| PLATES AND LABELS                                                                                                                             |      | A.          | Shall be supported form structural members and not from metal deck and slab assemblies.                                                                          |                                                |
| component of equipment shall have the manufacturers' name, address                                                                            | 3.08 | CLEAN       | NIIP                                                                                                                                                             |                                                |
| number designation, and location of each piece of equipment, valve,                                                                           | 5.00 |             |                                                                                                                                                                  |                                                |
| levice.                                                                                                                                       |      | A.          | Refer to general Conditions for cleaning-up.                                                                                                                     |                                                |
|                                                                                                                                               |      | В.          | Clean all materials and equipment of dirt, paint, sports and stains, soil marks and other foreign matter.                                                        |                                                |
| D WORKMANSHIP                                                                                                                                 |      |             |                                                                                                                                                                  |                                                |
| all be performed by qualified mechanics and all materials, apparatus                                                                          |      |             |                                                                                                                                                                  |                                                |
| nt shall be installed in neat, workmanlike manner. Any material, equipment which, in the opinion of the Architect/Engineer, is                |      |             |                                                                                                                                                                  |                                                |
| nstalled shall be removed and reinstalled in an approved manner at no                                                                         |      |             |                                                                                                                                                                  |                                                |
| ost to the Owner.                                                                                                                             |      |             |                                                                                                                                                                  |                                                |
|                                                                                                                                               |      |             |                                                                                                                                                                  |                                                |
|                                                                                                                                               |      |             |                                                                                                                                                                  |                                                |
|                                                                                                                                               |      |             |                                                                                                                                                                  |                                                |
|                                                                                                                                               | I    |             |                                                                                                                                                                  | 1                                              |
|                                                                                                                                               |      |             |                                                                                                                                                                  |                                                |

# TION

e to the Architect/engineer that the work is ready for final inspection, the

bmit test and balance report and complete requirements as noted.

bmit letter from control manufacturer certifying that controls have been checked operation and calibration and that system is operating as intended.

shall furnish necessary mechanics to operate system, make necessary adjustments with final inspection.

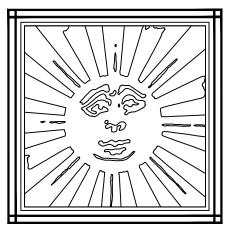
OF OWNER'S OPERATING PERSONNEL

ctor shall include the cost of the services of qualified instructor(s) to instruct the perating personnel in the operation, adjustment, care and maintenance of all ipment and systems.

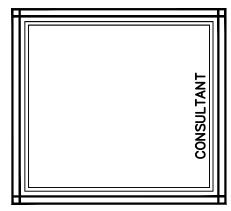
shall be performed at a time approved by the Owner after all HVAC equipment ns are installed, complete, adjusted and operating to specified requirements. r shall notify the Architect/Engineer when instructions will be given. ion of instructor(s) shall be subject to approval of the Owner and equipment

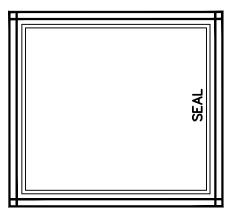
requirements concerning operation and maintenance of mechanical equipment s any be specified in other sections.

s of acknowledgement of all required instructions to Owner's operating personnel, he Owner or his authorized representative, shall be submitted to the Engineer prior to submitting application for final payment. An additional copy of wledgement is required in each copy of Operation and Maintenance Manuals in the Section, OPERATION AND MAINTENANCE MANUALS.













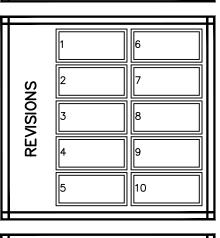
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B

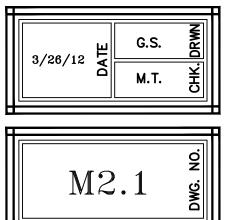
21129

NOTE: NOTE: ALL DRAWINGS FOR THIS PROJECT ARE TO BE READ IN CONJUNCTION WITH EACH OTHER. THESE INCLUDE, BUT ARE NOT LIMITED TO: ARCHITECTURAL, SURVEYING, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, SPECIALTY DRAWINGS, AND WRITTEN SPEC-IFICATIONS.

CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS AND THOROUGHLY CHECK ELEVATIONS AND DIMENSIONS BEFORE COMMENCING WORK. REPORT TO THE ARCHITECT ENGINEER ANY DISCREPANCIES, ERRORS OR CONDITIONS THAT WILL ALTER CONSTRUCTION AS INTENDED BY THESE DRAWINGS. ARCHITECT IS NOT RESPONSIBLE FOR ANY WORK AND/OR MATERIALS FURNISHED ON THE JOB.



NO SCALE A



MICHAEL A. TEELE, P.E. ENGINEER OF RECORD FLORIDA REGISTRATION P.E. 32066

JOB =1205

TEELE & ASSOCIATES CONSULTING ENGINEERS 3894 EVANS ROAD DELRAY BEACH, FLORIDA 33445 (561) 455-2438 CERT. OF AUTH. NO. 28712

DATE:

# SECTION 16000- ELECTRICAL GENERAL SPECIFICATIONS

## PART 1 - GENERAL

- 1.01 DESCRIPTION
- A. All electrical work and specified associated work in Section 16010 through 16999 are generally covered by this section. The work covered in this section consists of furnishing and installing all materials required for the installation of the complete electrical systems as shown on the drawings or hereinafter specified.
- B. This section does not provide for electric motors, telephone wires and instruments, except where specifically shown on the electrical drawings.
- C. Requirements of General Conditions, Supplementary Conditions and Division 1 of this Specification apply to work of this Division. They shall be as binding as if set forth at length herein.
- D. Except where portions of these specifications are more exacting, work of this division shall comply with all applicable provisions of the general scope of work.
- E. This work shall be executed in an orderly and careful manner and shall conform to accepted AIA standards.
- F. Related documents that require electrical coordination include, but are not limited to:
- Division 2, Site Work
- Division 9, Painting
- Division 11, Equipment 4. Division 13, Special Equipment
- 5. Division 15, Mechanical

# 1.02 WORK INCLUDED

- A. Work under this division includes, but is not necessarily limited to:
- 16000Electrical General Specifications 16110Electrical Raceways 16120Cable, Wire and Connectors 16130Electrical Boxes and Fittings
- 16140Wiring Devices 16170Safety and Disconnect Switches
- 16500Lighting Fixtures

# 1.03 CODES, ORDINANCES AND REGULATIONS

- A. All work shall comply with governing codes, ordinances, and regulations of State, County and Local Municipalities which have jurisdiction.
- B. Codes and Standards: Unless modified by these specifications, the design, manufacture, testing, and method of installation shall conform to the latest adopted editions of the following:
  - NFPA-70, National Electrical Code National Electrical Safety Code
  - NFPA-101, Life Safety Code
- 4. NEMA, National Electrical Manufacture's Association ANSI A117.1, Handicapped Accessibility Code
- OSHA, Standards of the Occupational, Safety and Health Administration 7. 2007 Florida Building Code (All Sections) with amendments
- C. Where any of the above is at variance with the drawings and specifications, the code requirements shall take precedence and any cost necessary to meet these shall be included in the contract. Drawings are schematic and do not necessarily indicate individual code compliance. Contractor shall provide all necessary items to comply with the above codes within the scope of the contract.
- D. This contractor is assumed to be skilled in the trade and is solely responsible for compliance with OSHA regulations, performing the work in a safe and competent manner and in installation procedures required for this work. All supervision assigned to this project shall be experienced in this type of work. This contractor's superintendent shall be designated as Safety Inspector, unless the contractor designates another person and notifies the engineer of this change.

### 1.04 PERMITS

A. Contractor is to obtain and pay for all permits, licenses, inspections, and connection fees required by governing bodies in connection with their work.

### 1.05 INSPECTION

- A. Before submitting bid, contractor shall visit the site, examine the complete document set with all specifications to fully understand all of the conditions relating to his work. No allowance or consideration will be made for the lack of knowledge of materials to be furnished, work to be done, existing conditions, code requirements, or conditions with which to be complied.
- B. Examine surfaces to which work under this division will be contiguous. Notify Architect/Engineer, in writing, of visible or latent defects which would prevent proper installation of work under this division. Commencement of work shall be construed as acceptance of such surfaces.

### 1.06 QUALITY CRITERIA

- A. All materials used in this work shall be new and listed and labeled by Underwriters Laboratories, as conforming to its standards, where such a standard has been established for the particular type of material in question. Materials that are not listed by UL, as a category, shall be provided with test data as required.
- B. All work shall be executed in a workmanlike manner and shall present a neat and mechanical appearance when completed.

### 1.07 DRAWINGS

- A. Subcontractor should examine structural, mechanical, and electrical drawings prior to submitting bid. Subcontractor will be required to furnish, install, and connect, with appropriate services, indicated items without additional expense to owner. Architect/Engineer shall be notified of discrepancies, omissions, conflicts, or interferences which occur between drawings or between drawings and specifications. If such notification is received in adequate time, additional data or changes will be issued by addendum to all bidders. If notification is not received, it is implied that additional costs will not be incurred.
- B. Structural drawings shall take precedence over electrical drawings with reference to construction. Electrical drawings are diagrammatic but shall be followed as closely as actual construction and work by other trades will permit. Necessary changes in spacing and location of lighting fixtures, panelboards, cabinets, wiring devices, and other items of equipment may be made provided the overall patterns and layouts are not altered and remain uniform. Location of devices, fixtures, etc. will be coordinated with Architectural elevations and reflected ceiling plans.
- C. Changes from drawings necessary to make the work of subcontractors easier, will be done at their own expense.
- D. The contractor is to maintain (1) set of reproducible drawings. These drawings shall indicate any deviations to the construction documents and provide dimensions of critical equipment location. Changes shall be made with non-erasable media. As-built drawings shall be delivered to the owner prior to final inspection. Final as-builts will be provided on electronic media, AutoCAD Version 2010.

### 1.08 CLAIMS FOR EXTRA WORK

- A. Claims for "EXTRAS" or additions to contract shall be made in writing by each subcontractor and submitted to Architect for approval. No claims for "EXTRA WORK" will be allowed unless authorization has been obtained in writing from Architect.
- B. Should contractor or his subcontractors start work without receiving approval in writing from Architect, it will be construed as acceptance by them that such work is required under their contract, and no further claim for an "EXTRA" will be considered or allowed by Architect. Compensation for "EXTRA" work will be as indicated in the General Conditions. Claim submittal must include material invoice copies and labor/rates for specific extra claimed. No payment will be made without substantiation.

### 1.09 **DEFINITIONS**

- A. Provide Contractor is to supply, furnish and install a complete and operating item or system.
- B. Wiring wire or cable, installed in raceway with all required boxes, fittings, connectors and accessories completely installed.
- C. Work the materials completely installed, including the labor involved.
- D. Plans shall be understood to mean the complete set, including all trades.
- E. Specifications the complete documents, including all sections, addendums, etc.
- F. Review of Shop Drawings The Architect's/Engineer's review shall not change the requirements of the contract documents nor shall this review relieve the contractor of errors in the shop drawings. In the event there are deviations between the shop drawings and the contract documents, the contract shall apply.
- G. Power Wiring the wiring to any device or equipment served by a multi-pole breaker.
- H. Control Wiring the wiring which has as its load, the operating coil of a magnetic starter, contactor or relay.
- 1.10 MAINTENANCE DATA AND OPERATIONAL MANUALS
- A. Provide three complete bound sets of all maintenance data and operational manuals. These are to be transmitted to the owner upon completion of the project. Service manuals should contain but not be united to the following:
  - Title sheet with job name, and the names, addresses and phone numbers of the Contractor, subcontractor, control subcontractor, related contractor and material and equipment suppliers.
  - Index of contents.
- 3. A copy of acknowledgement of instruction to the Owner's operating personnel in the operation of all electrical equipment and systems, signed by the Owner or his authorized representative.
- 4. Typewritten operating instructions for the Owner's operating personnel describing how to stop and start each piece of equipment; how to set the control system for normal operation and normal restarting procedures, and caution and warning notices.

- 5. Approved shop drawings, product data and parts and maintenance booklet for each item of material an equipment furnished under Sections 16010 through 16999.
- 6. Record drawings of electrical and control diagrams.
- 7. Guarantees, including extended guarantees.
- B. The contractor is responsible for operation and maintenance manuals associated with LEED Certification an Commissioning. Refer to Commissioning Specification for additional information.

## 1.11 GUARANTEE AND SERVICE

- A. In addition to guarantee of equipment by manufacturer of each piece of equipment specified herein, each subcontractor shall also guarantee such equipment and make good any defect of material or workmanship occurring during a period of (1) year from final acceptance test, without expense to owner.
- B. Each subcontractor shall service systems for (1) year from final acceptance. Such service will include
- lubrication, necessary adjustment, and/or replacement of defective equipment and materials furnished. Light bulb replacement guarantee shall be limited to 30 days after final acceptance.

# 1.12 SHOP DRAWINGS AND MATERIAL CUTS

- A. Materials and equipment are specified herein by a single or by multiple manufacturers, to indicate quality, material, and type of construction desired. One manufacturer's product is indicated and has been used as bas for design; it shall be each subcontractor's responsibility to ascertain that listed alternate manufacturer's prod conform to detailed specification, and that size and arrangement of equipment is suitable for installation. Products of other listed manufacturer's will be considered for use if in the Engineer's opinion, item requested substitution is equal to that specified. Should a subcontractor desire to make a substitution, he should apply writing, stating amount of credit or extra involved, including complete Engineering data. One set of submit will be reviewed within the Engineers scope of work. If additional submittals are reviewed, the contractor w be billed at a rate of \$125.00 per hour.
- B. The lighting fixture package will be listed on the plans. Only pre-approved substitutions allowed.
- C. It shall be the responsibility of each subcontractor making a substitution to include changes required by other trades for proper operation of equipment proposed to be substituted. Substitutions shall be made at no additional cost to the owner.
- D. Before purchase of equipment, submit (8) copies of shop drawings for approval. Submit as complete as possible. Identify each item submitted. Information on shop drawings shall contain all that is necessary to show that equipment complied with specifications and drawings. Show required modifications. One complete set of approved shop drawings shall be kept at job site.
- E. All submittals of electrical materials or equipment shall be made at the same time contained within one bind and one letter of transmittal.
- F. Provide shop drawings for the following materials if applicable to this project:
- Switchgear Light Fixtures (lumenaires)
- 3. Wiring Devices
- Surge Suppression

### 1.13 ELECTRICAL SERVICE

### 1.14 <u>TELEPHONE SERVICE</u>

- A. Install telephone conduits in accordance with requirements of local Telephone Company or as indicated on t drawings.
- B. Consult with telephone utility company immediately after award of construction contract and reach agreeme with its representatives as to installation details.

# 1.15 TEMPORARY SERVICE

- A. The Electrical Contractor shall include in his bid the cost of furnishing, installing, maintaining and removing material and equipment required to provide temporary light and power to perform the work of all trades during construction and until work is completed. Adequate lighting receptacle outlets for operation of hand tools sh be provided throughout the project, including shanties, trailers, field offices, temporary toilet enclosures, and shall be extended as construction progresses.
- B. Cost of all temporary electrical power consumed under this project shall be paid as detailed by the General Conditions

### 1.16 EQUIPMENT CONNECTIONS

- A. Provide electrical power to indicated mechanical equipment. Included are wiring, raceways, disconnects, and other devices. Control wiring shown on Mechanical drawings shall be provided under that section. Maintai (1) set of approved equipment shop drawings and wiring diagrams on the job. Provide rough-in power in accordance with this set.
- B. Rough-in locations, type of connection (straight blade or twist-loc receptacle, wall junction box with flex conduit to unit, or unit mounted J-box, etc.). Ampacity of connections, single or 3-phase characteristics are responsibility of the electrical contractor in regard to such equipment as: water coolers, water heaters, pump ranges, commercial cooking equipment, A/C condensing units, A/C air handlers, vent and exhaust fans, heat strips and unit heaters, dishwashers, disposers, range or equipment indicated. Final information must be obtained from equipment drawings.

# PART 2 - PRODUCTS

- 2.01 STANDARD PRODUCTS
- A. Unless otherwise indicated in writing by the Architect/Engineer, the materials to be furnished under this specification shall be the manufacturer's latest standard design. Where two or more units of the same class of equipment are required, these units shall be products of the same manufacturer. Units of equipment and components of the same purpose and rating shall be interchangeable throughout the project.

# 2.02 <u>NEW MATERIALS</u>

### 2.03 HARDWARE

# 2.04 EQUIPMENT

3.01 SUPERVISION

# 2.05 PROTECTION OF MATERIALS

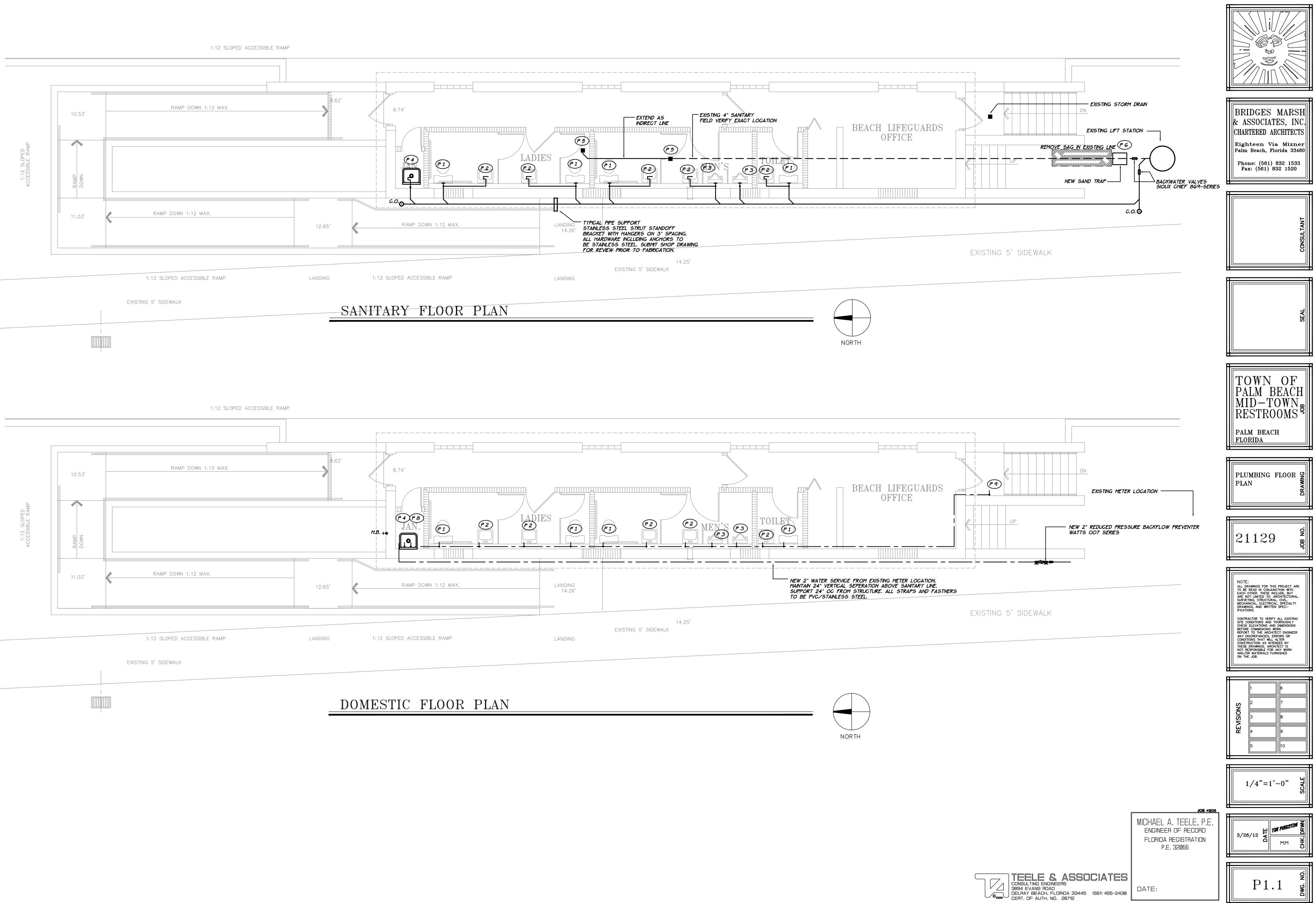
# PART 3 - EXECUTION

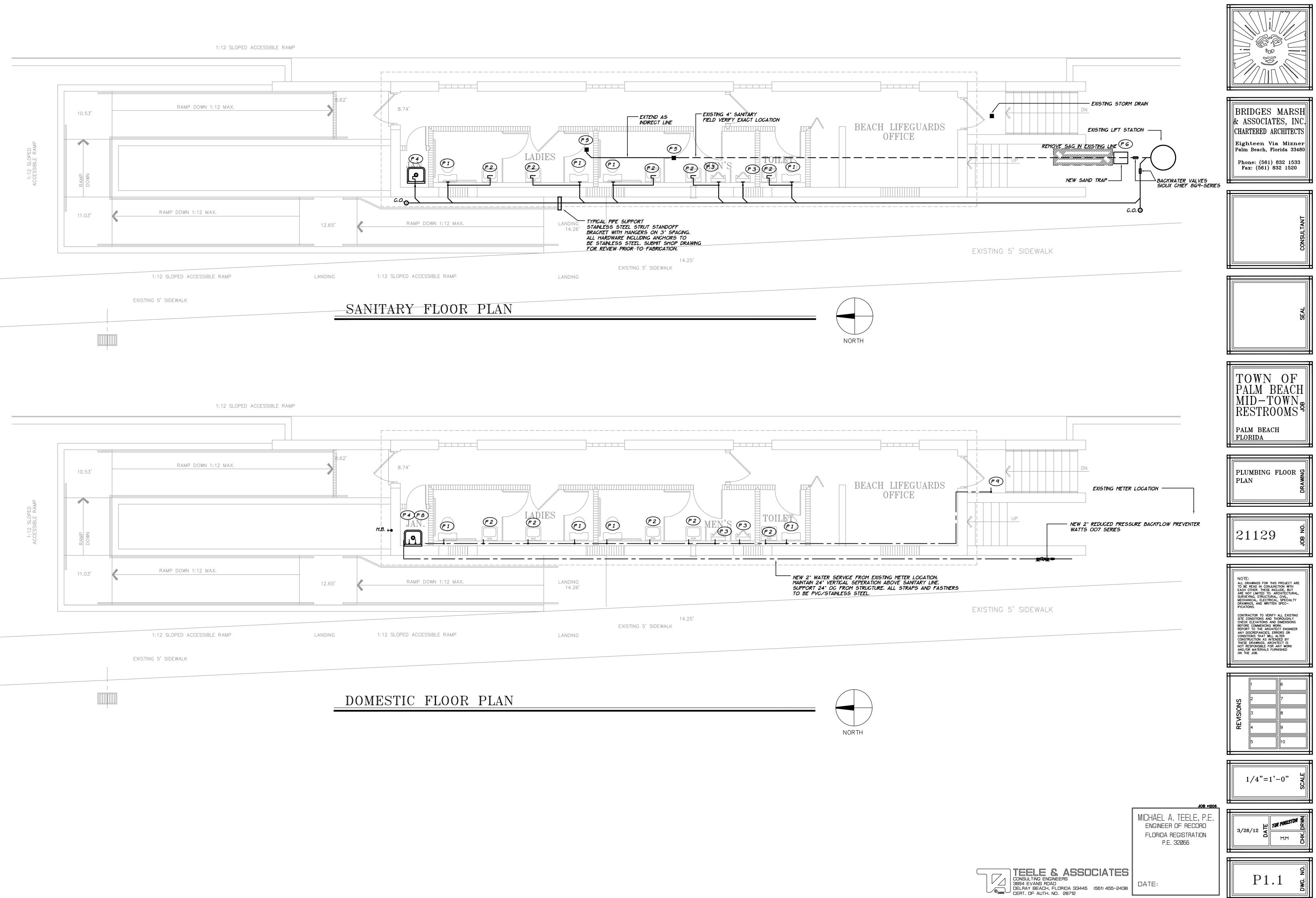
3.03 CUTTING AND PATCHING

3.02 INSTALLATION AND WORKMANSHIP

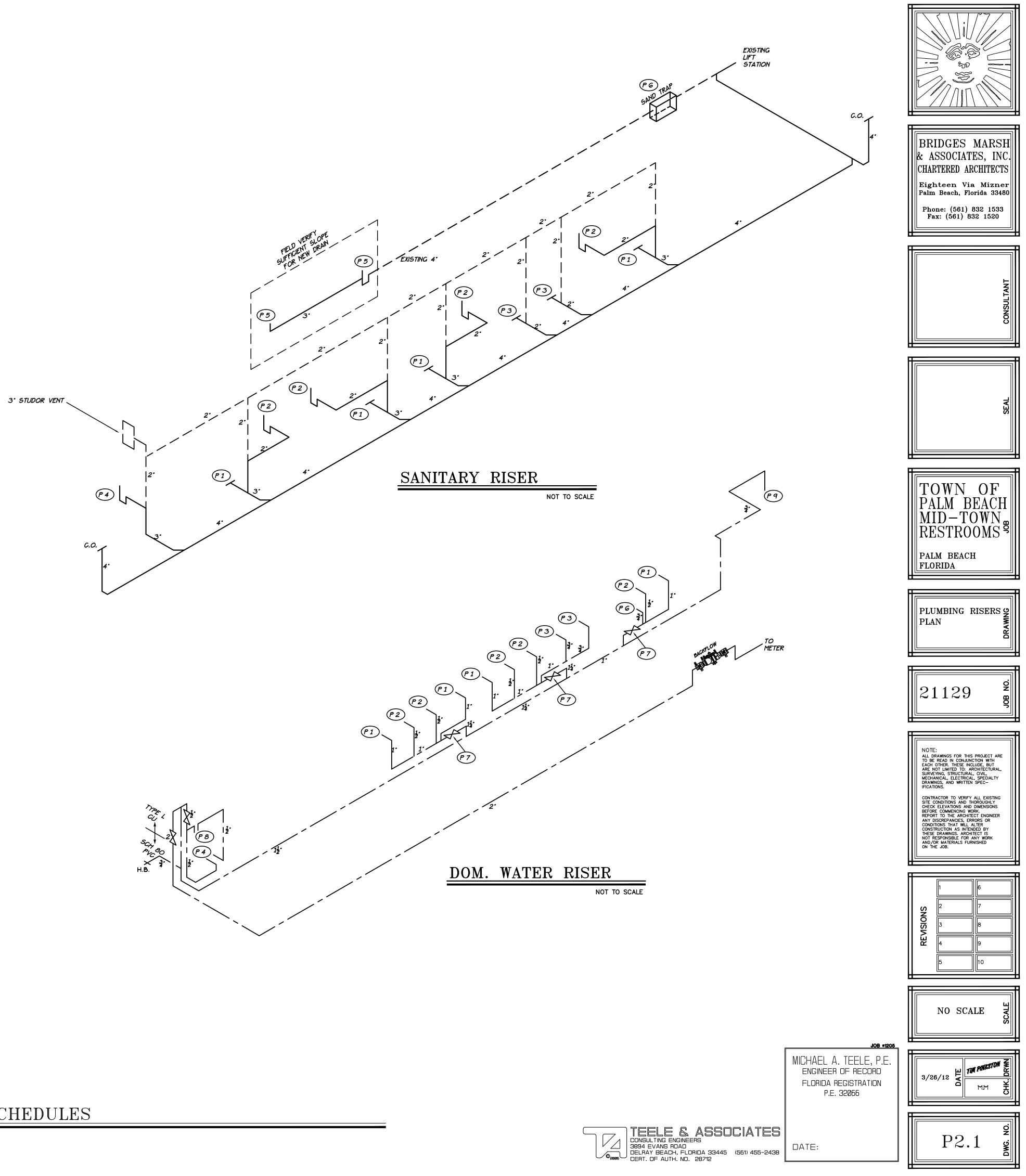
|                                                                                                                                                                                                                                                                                                                                                        | 3.04 EXCAVATING AND BACKFILLING                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5. Approved shop drawings, product data and parts and maintenance booklet for each item of material and equipment furnished under Sections 16010 through 16999.                                                                                                                                                                                        | A. Provide all trenching, excavating, and backfilling required for the work indicated on the drawings. This shall                                                                                                                                                                                                                                            | C. Provide junction boxes or pull boxes where necessary to avoid excessive runs or too mar outlets, but no greater than 100' apart or as indicated on the drawings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 6. Record drawings of electrical and control diagrams.                                                                                                                                                                                                                                                                                                 | include any and all dewatering required.<br>3.05 WATERPROOFING                                                                                                                                                                                                                                                                                               | D. Raceways no greater than 1" trade size may be concealed in slabs. Raceways shall be be steel and above bottom reinforcing steel and spaced a minimum of 3" apart in parallel ru                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 7. Guarantees, including extended guarantees.                                                                                                                                                                                                                                                                                                          | A. Do not cut or penetrate waterproofed surfaces or waterproofing membranes, without first making arrangements                                                                                                                                                                                                                                               | E. Support raceways securely with listed pipe straps, wall brackets, conduit hangers or ceili                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| B. The contractor is responsible for operation and maintenance manuals associated with LEED Certification and Commissioning. Refer to Commissioning Specification for additional information.                                                                                                                                                          | for repair by a method approved by the Architect/Engineer.<br>3.06 ACCESS DOORS (Access Panels)                                                                                                                                                                                                                                                              | shall be by sheet metal screws or screw type nails to wood, by toggle bolts to concrete bl<br>concrete or brick and beam clamp types on steel or bar joists. Raceways shall not be fas<br>ceiling supports but must have independent support from the structure. Supporting device                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| GUARANTEE AND SERVICE                                                                                                                                                                                                                                                                                                                                  | A. Provide access required for maintenance, adjustment, removal and repair of any and all electrical equipment and                                                                                                                                                                                                                                           | having corrosion protection at least equal to the raceway or shall be stainless steel. Supporting device close as practical to and not exceeding 18 inches from an unsupported box or from change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| A. In addition to guarantee of equipment by manufacturer of each piece of equipment specified herein, each subcontractor shall also guarantee such equipment and make good any defect of material or workmanship occurring during a period of (1) year from final acceptance test, without expense to owner.                                           | <ul><li>like items furnished hereunder.</li><li>B. Provide access doors conforming to requirements of Section, Access Doors (Access Panels). Panels shall be</li></ul>                                                                                                                                                                                       | horizontal runs, this support may be omitted if box is independently supported and box c<br>with chase nipple or threadless box connector. In vertical runs, load produced by weight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <ul><li>B. Each subcontractor shall service systems for (1) year from final acceptance. Such service will include</li></ul>                                                                                                                                                                                                                            | located to make all items easily accessible.                                                                                                                                                                                                                                                                                                                 | <ul><li>conductors shall not be carried by raceway terminal, but must be carried entirely by cond</li><li>F. Powder actuated fasteners are not permitted, unless previously approved by the Structura</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| lubrication, necessary adjustment, and/or replacement of defective equipment and materials furnished. Light bulb replacement guarantee shall be limited to 30 days after final acceptance.                                                                                                                                                             | <ul> <li>3.07 <u>RELATED ELECTRICAL WORK</u></li> <li>A. Power wiring from panels to motor controllers and from controllers to motors is specified in this Division.</li> </ul>                                                                                                                                                                              | SECTION END                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| SHOP DRAWINGS AND MATERIAL CUTS                                                                                                                                                                                                                                                                                                                        | <ul><li>B. The contract drawings indicate circuit breakers, starters, fuses, fusible and non-fusible disconnect switches,</li></ul>                                                                                                                                                                                                                          | SECTION 16120 - CABLE, WIRE AND CONNECTORS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| A. Materials and equipment are specified herein by a single or by multiple manufacturers, to indicate quality, material, and type of construction desired. One manufacturer's product is indicated and has been used as basis                                                                                                                          | conduit and conductor sizes required for power feeds to mechanical equipment. These are representative only<br>and are designed for a specific manufacturer and model chosen by the Mechanical Designer. If the Mechanical                                                                                                                                   | PART 1 - GENERAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| for design; it shall be each subcontractor's responsibility to ascertain that listed alternate manufacturer's products conform to detailed specification, and that size and arrangement of equipment is suitable for installation. Products of other listed manufacturer's will be considered for use if in the Engineer's opinion, item requested for | Contractor supplies equipment which differs in its electrical requirements, the Mechanical Contractor must coordinate with the Electrical Contractor to properly resize all power feeds and electrical equipment to match at no additional expense to Owner; new sizes must be submitted for approval.                                                       | <ul> <li>1.01 <u>DESCRIPTION</u></li> <li>A. The work covered in this section consists of furnishing and installing all materials requir</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| substitution is equal to that specified. Should a subcontractor desire to make a substitution, he should apply in writing, stating amount of credit or extra involved, including complete Engineering data. One set of submittals                                                                                                                      | C. Mechanical equipment, motors and apparatus furnished by the Mechanical Contractor (including air                                                                                                                                                                                                                                                          | of a complete system of wiring.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| will be reviewed within the Engineers scope of work. If additional submittals are reviewed, the contractor will be billed at a rate of \$125.00 per hour.                                                                                                                                                                                              | conditioners with or without heating elements, pumps, compressors, fans, etc.) shall be supplied with starters, heaters and other power related items, unless otherwise noted. Such items shall be installed and connected by the Electrical Contractor. Disconnecting means and their protective devices (fuses, circuit breakers, etc.) shall              | <ul><li>1.02 <u>QUALITY CRITERIA</u></li><li>A. Provide electrical cable, wire and connectors which have been listed and labeled by Und</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| B. The lighting fixture package will be listed on the plans. Only pre-approved substitutions allowed.                                                                                                                                                                                                                                                  | be furnished and installed by the Electrical Contractor.                                                                                                                                                                                                                                                                                                     | PART 2 - PRODUCTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| C. It shall be the responsibility of each subcontractor making a substitution to include changes required by other trades for proper operation of equipment proposed to be substituted. Substitutions shall be made at no                                                                                                                              | <ul> <li>D. Control devices for mechanical equipment, including all transducers, switches, thermostats, damper motors, control transformers, humidistats, etc., shall be provided by the Mechanical Contractor unless specifically shown otherwise on drawings or in these specifications. Installation of these devices, along with all required</li> </ul> | 2.01 <u>POWER CONDUCTORS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <ul><li>additional cost to the owner.</li><li>D. Before purchase of equipment, submit (8) copies of shop drawings for approval. Submit as complete as</li></ul>                                                                                                                                                                                        | conduit and wire shall be furnished under Division 15. Submit control diagrams so proper coordination may be properly accomplished.                                                                                                                                                                                                                          | A. Insulation: Type THHN/THWN for sizes no. 14 to 8 AWG. For conductors' no. 6 and le<br>be THW or THWN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| possible. Identify each item submitted. Information on shop drawings shall contain all that is necessary to show that equipment complied with specifications and drawings. Show required modifications. One complete                                                                                                                                   | 3.08 <u>VIBRATION AND NOISE CONTROL</u>                                                                                                                                                                                                                                                                                                                      | B. All feeder conductors or conductors below grade to be THW or THWN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul><li>set of approved shop drawings shall be kept at job site.</li><li>E. All submittals of electrical materials or equipment shall be made at the same time contained within one binder</li></ul>                                                                                                                                                   | A. Excessive vibration or objectionable noise created in any part of building by operation of any equipment installed under this contract will not be permitted. Contractor shall isolate various items of equipment from                                                                                                                                    | C. Conductor material: copper, 98.5% conductivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| and one letter of transmittal.                                                                                                                                                                                                                                                                                                                         | building structure and take all steps that may be necessary to eliminate excessive vibration and objectionable noise produced by any equipment installed under this contract.                                                                                                                                                                                | D. No branch circuit conductors shall be smaller than No. 12, unless specifically indicated of documents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <ul><li>F. Provide shop drawings for the following materials if applicable to this project:</li><li>1. Switchgear</li></ul>                                                                                                                                                                                                                            | 3.09 <u>CLEANING AND ADJUSTMENTS</u>                                                                                                                                                                                                                                                                                                                         | E. Conductors No. 12 and smaller shall be solid; No. 10 and larger, stranded.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <ol> <li>Switchgear</li> <li>Light Fixtures (lumenaires)</li> <li>Wiring Devices</li> </ol>                                                                                                                                                                                                                                                            | A. Upon completion of work, each subcontractor shall clean, oil, and grease fans, motors, and other running equipment and apparatus which he installs, and shall make certain such apparatus and mechanisms are in proper                                                                                                                                    | F. Color Code: <u>240/120</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 4. Surge Suppression                                                                                                                                                                                                                                                                                                                                   | working order and ready for test.<br>3.10 ACCEPTANCE INSPECTION                                                                                                                                                                                                                                                                                              | Phase A Black<br>Phase B Red<br>Neutral White                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Corrections or comments made on shop drawings during review do not relieve contractor from compliance with requirements of drawings and specifications. This check is only for review of general conformance with design concept of project, and general compliance with information given in contract documents.                                      | A. Contractor shall read applicable sections of these specifications, and prepare and assemble required test reports,                                                                                                                                                                                                                                        | Ground Green                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ELECTRICAL SERVICE                                                                                                                                                                                                                                                                                                                                     | maintenance manuals, certificates, guarantees and letters of instruction. Contractor's representatives responsible for work under Division 16 shall be present at time of acceptance inspections, and shall furnish required machines to be and ledden to excit in inspection.                                                                               | 2.02 <u>TELEPHONE/DATA CONDUCTORS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| A. Electrical service shall be as indicated or as required by the local utility. Consultation and coordination with local utility company representative is a job requirement prior to start of project.                                                                                                                                               | <ul><li>mechanics, tools, and ladders to assist in inspection.</li><li>B. Prior to requesting final inspection, contractor shall clean, and where required, paint electrical equipment</li></ul>                                                                                                                                                             | A. Wiring to be home-run from each indicated outlet to the main distribution hub. Wiring a All terminations to be tested and certified as category 5. Final testing reports to be furnise manuals.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <u>TELEPHONE SERVICE</u>                                                                                                                                                                                                                                                                                                                               | installed. Exposed conduits, exposed outlet boxes, surface panel cabinets, etc. shall be finished to match walls or ceilings. Cabinets, panels, panel covers, scratched or otherwise damaged shall be painted with factory                                                                                                                                   | 2.03 <u>CONNECTORS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| A. Install telephone conduits in accordance with requirements of local Telephone Company or as indicated on the drawings.                                                                                                                                                                                                                              | supplied color - matched paint. Interiors of panelboards, switchboards and cabinets shall be vacuum cleaned, free of dust and debris.                                                                                                                                                                                                                        | A. General: Provide factory-fabricated, metal connectors of the size, rating, material, type, a for each service. Where not indicated, provide proper selection to comply with NEC star                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <ul><li>B. Consult with telephone utility company immediately after award of construction contract and reach agreement</li></ul>                                                                                                                                                                                                                       | C. Provide a label for the electrical system stating "INSTALLATION BY"                                                                                                                                                                                                                                                                                       | only following types, classes, kind and styles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| with its representatives as to installation details. TEMPORARY SERVICE                                                                                                                                                                                                                                                                                 | Name, Address, Phone # of Contractor<br>Letters shall be 1/4 inch high and located in a conspicuous place in the main equipment room.                                                                                                                                                                                                                        | <ul> <li>B. Splices:</li> <li>Branch circuit and signal conductors up to No. 10 AWG - use "Scotchlok" connect</li> <li>Splices and joints made in conductors #8 AWG and larger shall be with copper con</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| A. The Electrical Contractor shall include in his bid the cost of furnishing, installing, maintaining and removing all                                                                                                                                                                                                                                 | <ul><li>D. List of items to be corrected as a result of acceptance inspection will be furnished to contractor.</li></ul>                                                                                                                                                                                                                                     | <ul><li>indent method or "ILSCO" insulated power distribution block (or equal).</li><li>Re-insulate with half-lapped wrapping of vinyl tape equal to thickness of original in the second second</li></ul> |
| material and equipment required to provide temporary light and power to perform the work of all trades during construction and until work is completed. Adequate lighting receptacle outlets for operation of hand tools shall                                                                                                                         | E. Notify Architect/Engineer in writing of items appearing on list for correction disputed by contractor. When ready, request in writing a re-inspection of work. Should items appearing on acceptance inspection list remain                                                                                                                                | <ol> <li>Use approved lugs on all stranded conductors.</li> <li>Use approved type epoxy sealed weatherproofing kits for all underground splices of 3577 and 3578 for splices #6 AWG and smaller, Scotch 82 Series for all others.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| be provided throughout the project, including shanties, trailers, field offices, temporary toilet enclosures, and shall be extended as construction progresses.                                                                                                                                                                                        | uncorrected, additional inspections required to ascertain completion shall be paid by contractor at rate of \$85.00 per hour.                                                                                                                                                                                                                                | <ul> <li>6. Splices are permitted in junction boxes only.</li> <li>7. Splices are not permitted in service conductors.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| B. Cost of all temporary electrical power consumed under this project shall be paid as detailed by the General Conditions.                                                                                                                                                                                                                             | 3.11 INSTRUCTION OF OWNER'S OPERATING PERSONNEL                                                                                                                                                                                                                                                                                                              | <ol> <li>All splices and terminals shall have a de-oxidizer compound applied.</li> <li>Do not use insulation piercing connectors or push-in type connectors.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| EQUIPMENT CONNECTIONS                                                                                                                                                                                                                                                                                                                                  | A. The Contractor shall include the cost of the services of qualified instructor(s) to instruct the Owner's operating personnel in the operation, adjustment, care and maintenance of all electrical equipment and systems.                                                                                                                                  | PART 3 - EXECUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| A. Provide electrical power to indicated mechanical equipment. Included are wiring, raceways, disconnects, and other devices. Control wiring shown on Mechanical drawings shall be provided under that section. Maintain                                                                                                                               | B. Instruction shall be performed at a time approved by the Owner after all the electrical equipment and systems                                                                                                                                                                                                                                             | 3.01 <u>INSTALLATION</u> : Install electrical cable, wire and connectors in accordance with the manufa instructions, the applicable requirements of NEC and the National Electrical Contractors Assoc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| (1) set of approved equipment shop drawings and wiring diagrams on the job. Provide rough-in power in accordance with this set.                                                                                                                                                                                                                        | are installed, complete, adjusted and operating to specified requirements. Contractor shall notify the Architect/Engineer when instructions will be given.                                                                                                                                                                                                   | Installation," and in accordance with recognized industry practices to ensure that products serv<br>functions. Installation shall be executed in a manner that preserves the integrity and does not d<br>longevity of either the conductors nor the raceway(s) they are installed within. Conductors sha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| B. Rough-in locations, type of connection (straight blade or twist-loc receptacle, wall junction box with flex conduit to unit, or unit mounted J-box, etc.). Ampacity of connections, single or 3-phase characteristics are the                                                                                                                       | C. Qualification of instructor(s) shall be subject to approval of the Owner and equipment manufacturer.                                                                                                                                                                                                                                                      | manner to minimize the required number of splices and/or taps.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| responsibility of the electrical contractor in regard to such equipment as: water coolers, water heaters, pumps, ranges, commercial cooking equipment, A/C condensing units, A/C air handlers, vent and exhaust fans, heat strips and unit heaters, dishwashers, disposers, range or equipment indicated. Final information must be                    | D. Additional requirements concerning operation and maintenance of electrical equipment and systems may be specified in other sections.                                                                                                                                                                                                                      | <ul><li>3.02 <u>FIELD QUALITY CONTROL</u></li><li>A. Prior to energizing, check cable and wire for continuity of circuitry, and for short circuit</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| obtained from equipment drawings.                                                                                                                                                                                                                                                                                                                      | E. Two copies of acknowledgement of all required instructions to Owner's operating personnel, signed by the Owner or his authorized representative, shall be submitted to the Architect/Engineer prior to submitting                                                                                                                                         | <ul><li>B. Subsequent to wire and cable hookups, energize circuitry and demonstrate functioning in</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| STANDARD PRODUCTS                                                                                                                                                                                                                                                                                                                                      | application for final payment. An additional copy of this acknowledgement is required in each copy of Operation and Maintenance Manuals.                                                                                                                                                                                                                     | requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| A. Unless otherwise indicated in writing by the Architect/Engineer, the materials to be furnished under this                                                                                                                                                                                                                                           | SECTION END                                                                                                                                                                                                                                                                                                                                                  | SECTION END                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| specification shall be the manufacturer's latest standard design. Where two or more units of the same class of equipment are required, these units shall be products of the same manufacturer. Units of equipment and components of the same purpose and rating shall be interchangeable throughout the project.                                       | SECTION 16110 - ELECTRICAL RACEWAYS                                                                                                                                                                                                                                                                                                                          | <u>SECTION 16130 - ELECTRICAL BOXES AND FITTINGS</u><br>PART 1 - GENERAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| NEW MATERIALS                                                                                                                                                                                                                                                                                                                                          | PART 1 - GENERAL                                                                                                                                                                                                                                                                                                                                             | 1.01 <u>DESCRIPTION</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| A. All materials shall be newly manufactured. Defective equipment or equipment damaged in the course of                                                                                                                                                                                                                                                | <ul> <li>1.01 <u>DESCRIPTION</u></li> <li>A. The work covered in this section consists of providing raceways and conduits complete with all required</li> </ul>                                                                                                                                                                                              | A. The work covered in this section consists of furnishing and installing all materials requir<br>of all outlet boxes, junction boxes, pull boxes and covers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| installation or test shall be replaced or repaired in a manner meeting with the approval of the Engineer at no additional expense to the Owner.                                                                                                                                                                                                        | accessories, hangers, supports, connections and fittings necessary to make the system complete.                                                                                                                                                                                                                                                              | 1.02 QUALITY CRITERIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| HARDWARE                                                                                                                                                                                                                                                                                                                                               | <ul><li>1.02 <u>QUALITY CRITERIA</u></li><li>A. All conduits and raceways shall be of standard dimensions, smooth inside and out, and be UL listed.</li></ul>                                                                                                                                                                                                | A. Provide metallic boxes which have been listed and labeled by Underwriters Laboratories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| A. All hardware, screws, bolts, nuts, and accessory fittings shall be of a type designed, intended or appropriate for the use, and complement the items with which they are used, and shall have corrosion protection suitable for the atmosphere in which they are installed.                                                                         | 1.03 <u>JOB CONDITIONS</u>                                                                                                                                                                                                                                                                                                                                   | PART 2 - PRODUCTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| EQUIPMENT                                                                                                                                                                                                                                                                                                                                              | A. The conduit layout shown on the plans is diagrammatic only and where changes are necessary due to structural conditions, other apparatus, or other causes, such as changes shall be made without any additional cost to the                                                                                                                               | 2.01 <u>OUTLET BOXES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| A. Equipment of a similar nature shall be identical. Example: All panelboard shall be of the same manufacturer and of the same style.                                                                                                                                                                                                                  | owner. Offsets in conduits are not indicated and must be provided as required.                                                                                                                                                                                                                                                                               | <ul> <li>A. Standard Outlet Boxes: Boxes and covers shall be heavy walled plastic (non-metallic) as<br/>such form and dimensions as to be adapted to its specific use and location, kind of fixture<br/>number, size and arrangement of conduits connecting thereto. Contractor is to apply a field</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PROTECTION OF MATERIALS                                                                                                                                                                                                                                                                                                                                | PART 2 - PRODUCTS                                                                                                                                                                                                                                                                                                                                            | spray-on cold galvanized finish to protect boxes during construction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| B. Keep all conduit and other openings protected to prevent entry of foreign matter. Cover fixtures, equipment and apparatus as required for protection.                                                                                                                                                                                               | 2.01 <u>RACEWAYS</u>                                                                                                                                                                                                                                                                                                                                         | <ul><li>B. Junction Boxes: Junction boxes shall be provided with blank covers painted to match su</li><li>C. Fittings: For outlets in exposed conduit, PVC type FS boxes and schedule 80 PVC fittin</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| T 3 - EXECUTION                                                                                                                                                                                                                                                                                                                                        | <ul> <li>A. Liquid-tight Flexible Conduit:</li> <li>1. Provide liquid-tight flexible metal conduit consisting of non-metallic, sunlight resistant jacket for use in</li> </ul>                                                                                                                                                                               | These shall be Carlon.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| SUPERVISION                                                                                                                                                                                                                                                                                                                                            | <ul> <li>making up short flexible connection to rotating or vibrating equipment in damp or wet locations such as outside or in mechanical rooms where the potential for pipe leakage exists.</li> <li>Provide bonding jumper.</li> </ul>                                                                                                                     | D. Covers: Where outlet boxes are to be capped, blank coverplates shall be used.<br>PART 3 - EXECUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| A. Maintain competent superintendent in charge of work. Superintendent shall be qualified and have suitable experience in type of work involved. Electrical supervision shall be by a certified journeyman licensed in the                                                                                                                             | <ol> <li>Provide fittings for recommended use.</li> <li>Carlon "Carflex" with matching fittings.</li> </ol>                                                                                                                                                                                                                                                  | 3.01 INSTALLATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| permitting area.                                                                                                                                                                                                                                                                                                                                       | <ul> <li>B. Rigid Non-Metallic Conduit</li> <li>1. Rigid non-metallic conduit and fittings shall be polyvinyl chloride (PVC) as manufactured by Carlon, Inc.</li> </ul>                                                                                                                                                                                      | A. Outlet boxes and junction boxes shall be mounted to structures and walls with corrosion anchor or molly bolts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| B. Before starting his work and as work progresses, superintendent shall examine work and materials installed by others insofar as they apply to his own work, and shall notify the Architect immediately in writing of conditions which will prevent satisfactory results in installation of the system.                                              | or approved equal, Schedule 40 or 80 as required, and shall be approved for the purpose used. The conduit shall be homogeneous throughout and free from cracks, holes, foreign inclusions or other defects.                                                                                                                                                  | <ul><li>B. Fittings designated as pull fittings shall be installed to facilitate pulling wiring as require</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| INSTALLATION AND WORKMANSHIP                                                                                                                                                                                                                                                                                                                           | The conduit shall be as uniform as commercially practical in color. The conduit shall meet all of the requirements of SDR (Standard Dimension Ratio) PVC conduit and shall conform in all respects to the Commercial Standards CS207, and shall be sunlight resistant.                                                                                       | C. Provide weatherproof outlets for interior and exterior locations exposed to weather or me                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| A. The work shall be performed by qualified mechanics and all materials, apparatus and equipment shall be installed in neat, workmanlike manner. Any material, apparatus or equipment which, in the opinion of the                                                                                                                                     | <ol> <li>Fittings shall be of the same material as the conduit, and in no case shall have thinner walls than that of the conduit furnished. Preference will be given to the use of extruded fittings.</li> </ol>                                                                                                                                             | D. The edge of all outlet boxes shall be flush with the surface in which they are recessed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Architect/Engineer, is improperly installed shall be removed and reinstalled in an approved manner at no additional cost to the Owner.                                                                                                                                                                                                                 | <ol> <li>Provide ground conductor sized in accordance with the N.E.C.</li> <li>Expansion fittings shall be installed as per manufacturer's recommendation.</li> </ol>                                                                                                                                                                                        | E. Cuts for outlet boxes shall be made so that the coverplate will completely cover the cut.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| B. Schedule work, and in every way possible cooperate with all other trades on the job to avoid delays, interferences and unnecessary work. Before starting his work and from time to time as work progresses,                                                                                                                                         | PART 3 - EXECUTION                                                                                                                                                                                                                                                                                                                                           | F. Each outlet for the attachment of lighting fixtures shall be provided with a fixture stud se box.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| superintendent shall examine work and materials installed by others insofar as they apply to his own work, and shall notify the Architect/Engineer immediately in writing of conditions which will prevent satisfactory results                                                                                                                        | 3.01 <u>APPLICATION</u>                                                                                                                                                                                                                                                                                                                                      | G. Outlets occurring in architectural features shall be accurately centered in same. Space w that first gang box is 4" from door trims on the strike side of the door.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| in installation of the system. Should a subcontractor share his work without such notification, it shall be construed as acceptance of claims or questions as to suitability of work of others to receive his work. He shall                                                                                                                           | A. Schedule 80 PVC Conduit shall be used for all exposed work where subject to damage. All work exposed to<br>the weather or a damp location service to be schedule 80 PVC.                                                                                                                                                                                  | <ul> <li>3.02 <u>APPLICATIONS GUIDE</u></li> <li>A. The types of electrical boxes and fittings used for the various portions of the system shall</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| remove and replace, at his own expense, work under this contract which may have to be removed on account of such defects.                                                                                                                                                                                                                              | B. Schedule 40 PVC Conduit shall be used as a raceway system for underground service and all conduits embedded in concrete in contact with the earth. Plastic conduits are to turn up through the concrete slab.                                                                                                                                             | 1. Octagonal Boxes:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| C. The installation of the systems shall, in general, be in accordance with the drawings with regards to location of equipment, conduits, and the like. Conduit routing indicated shall be followed as accurately as actual                                                                                                                            | C. Connect motors and equipment subject to vibration with weatherproof flexible PVC "sealtite" conduits. All flex shall have separate bond wire except fixture tails.                                                                                                                                                                                        | <ul><li>Flush mounted ceiling or wall lighting fixtures.</li><li>Square Boxes:</li><li>Elush mounted ceiling or wall lighting fixtures. Elush mounted wiring or system d</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| construction will permit and any deviations therefrom shall be called to the attention of the Architect/Engineer.<br>Where necessary, as determined by the Architect/Engineer, Contractor shall furnish drawings showing proposed changes.                                                                                                             | D. Raceways for communications, alarm, control, and signal systems shall meet preceding specifications.                                                                                                                                                                                                                                                      | <ul><li>Flush mounted ceiling or wall lighting fixtures. Flush mounted wiring or system d locations with more than two conduits to a single device or fixture.</li><li>3. Utility Boxes:</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| CUTTING AND PATCHING                                                                                                                                                                                                                                                                                                                                   | 3.02 <u>INSTALLATION</u>                                                                                                                                                                                                                                                                                                                                     | Temporary work only<br>4. Gang Boxes:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul> <li>Cutting and patching of walls, partitions, floors, concrete, pits and chases in wood and masonry will be done by<br/>this subcontractor as indicated or as directed by Architect/Engineer. Cutting of steel, wood, or other main</li> </ul>                                                                                                   | <ul><li>A. Wherever possible, install horizontal raceway runs above water piping.</li><li>B. The conduit sizes shown on the plans may be increased to facilitate the pulling of cables.</li></ul>                                                                                                                                                            | <ul><li>Flush mounted locations with more than one wiring device.</li><li>5. Concrete Boxes:</li><li>Flush fixture box locations in poured concrete.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| this subcontractor as indicated or as directed by Architect/Engineer. Cutting of steel, wood, or other main structural parts must be approved by Architect/Engineer prior to commencing cutting.                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

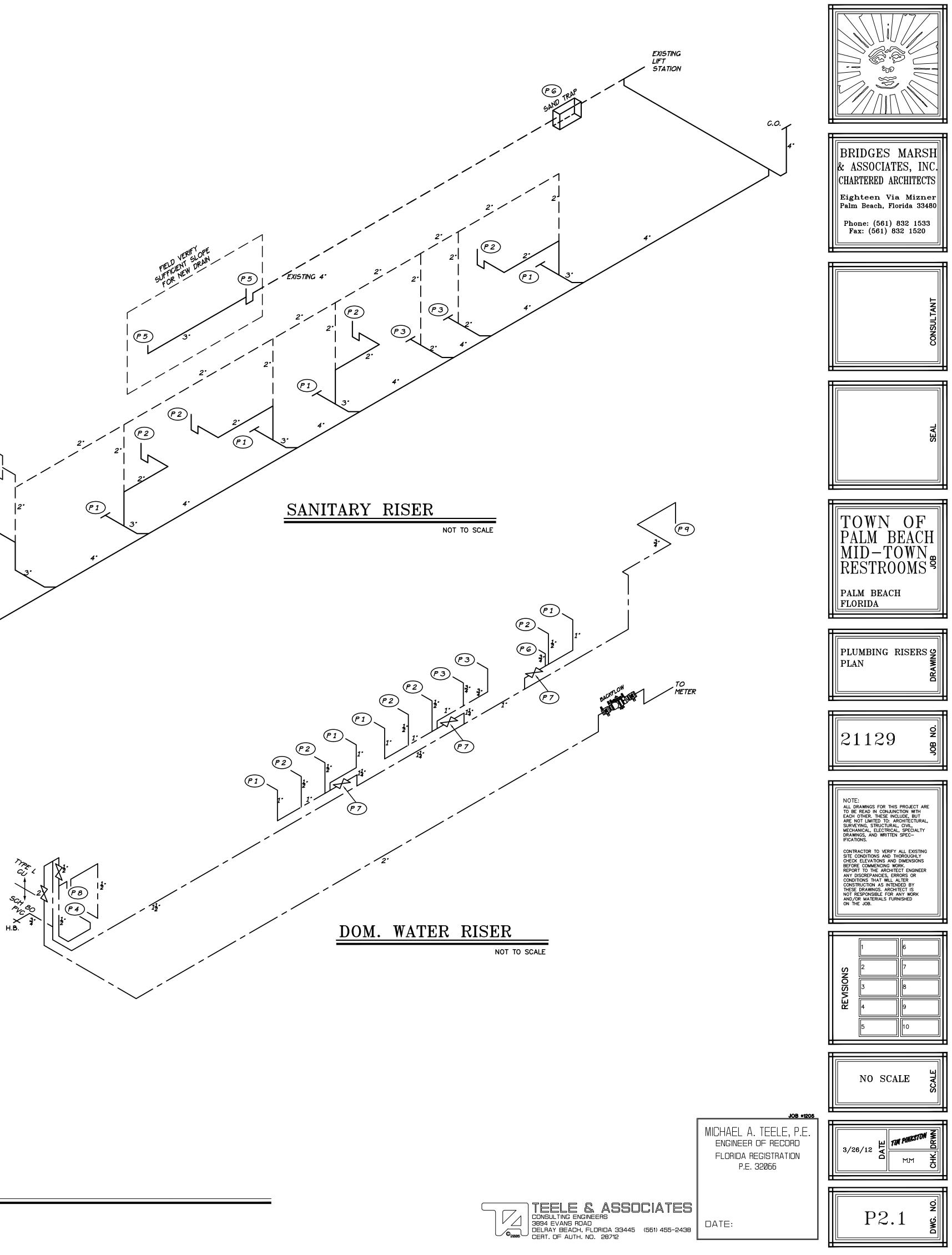
|                                                        | 6. Masonry Wall Boxes:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                              |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ny bends between                                       | <ul> <li>Square cut masonry boxes for flush mounted devices in finished masonry or tile walls.</li> <li>7. Cast Boxes:</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                              |
| elow top reinforcing                                   | <ul> <li>Any surface fixture or device mounted below 10 feet above finished floor.</li> <li>8. Corrosion-Resistant Boxes:<br/>Any boxes located in a corrosive environment or so noted on drawings.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                              |
| ns.<br>ing trapeze. Fastenings                         | SECTION END                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                              |
| lock, expansion bolts on tened to suspended            | SECTION 16140 - WIRING DEVICES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                              |
| ces shall be of materials<br>port shall be provided as | PART 1 - GENERAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                              |
| ge of direction. In<br>connection is not made          | 1.01 <u>DESCRIPTION</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                              |
| t of raceway and duit supports.                        | A. The work in this section consists of providing wiring devices complete with all accessories as indicated on the drawings and specified herein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                              |
| al Engineer.                                           | 1.02 <u>QUALITY CRITERIA</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | BRIDGES MARSH                                                                                                                                                                |
|                                                        | A. Wiring devices shall comply with applicable NEMA standards for general and specific purpose devices.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | & ASSOCIATES, INC.                                                                                                                                                           |
|                                                        | B. Color of wiring devices and plates are to be determined by Owner. Provide samples of all colors to the Architect/Owner.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CHARTERED ARCHITECTS                                                                                                                                                         |
|                                                        | PART 2 - PRODUCTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Eighteen Via Mizner                                                                                                                                                          |
| red for the installation                               | 2.01 <u>COVERPLATES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Palm Beach, Florida 33480                                                                                                                                                    |
|                                                        | A. All switches or convenience outlets are shown in the same location, they shall be covered with a single plate of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Phone: (561) 832 1533<br>Fax: (561) 832 1520                                                                                                                                 |
|                                                        | the proper gang.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                              |
| lerwriters Laboratories.                               | <ul><li>2.02 <u>WALL RECEPTACLES</u></li><li>A. 20 ampere, 125 volt, three-wire self-grounding type. Leviton #5824</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                              |
|                                                        | <ul><li>B. Indoor GFI receptacles shall be Leviton #8899.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                              |
| arger, insulation shall                                | C. TV and Telephone plates shall match receptacles cover plates.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                              |
|                                                        | D. All outlet locations and mounting heights are to be reviewed with the Architect on site prior to installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                              |
|                                                        | 2.03 WALL SWITCHES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CONSULTANT                                                                                                                                                                   |
| - Ale and the second second                            | A. Standard switches shall be toggle style, flush type, 20 ampere, 120/277 volt, A.C. only, totally enclosed toggle switch. Provide Leviton #CSB1-20.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CON                                                                                                                                                                          |
| otherwise in the contract                              | <ul><li>B. Special type: three way, four way, two pole shall be of same design, color and manufacturer as single pole</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                              |
|                                                        | switches and shall be 20 ampere. Leviton #CSB2(3,4)-20.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                              |
|                                                        | PART 3 - EXECUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                              |
|                                                        | 3.01 <u>LOCATION</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                              |
|                                                        | A. Contractor shall mark all locations of wiring devices on floor for final review and approval by Architect.<br>Failure to receive approval may cause devices to be relocated as directed by Architect at Contractors expense.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                              |
|                                                        | B. Coordinate the exact location of wiring devices with other trades and architectural features. Do not locate devices on two different architectural finishes such as half on wall tile and half on painted surface.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SEAL                                                                                                                                                                         |
| to be 4-pair category 5.<br>shed with the owners       | C. Dimensions shown on drawing indicate the distance from the center line of the box from the floor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                              |
|                                                        | 3.02 <u>INSTALLATION</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                              |
|                                                        | A. Mount all wiring devices in standard steel outlet boxes. Provide plaster rings in areas requiring them due to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                              |
| and class as indicated ndards. Select from             | <ul><li>B. Where more than one device is indicated, arrange in gangs covered with one coverplate.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                              |
|                                                        | <ul><li>C. Provide 8" long ground wire from grounding lug of all grounding type receptacles to a suitable device on the</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TOWN OF                                                                                                                                                                      |
| tors or equal.<br>mpatible sleeves using               | conduit or outlet box.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PALM BEACH                                                                                                                                                                   |
| insulation.                                            | SECTION END                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MID-TOWN                                                                                                                                                                     |
| or joints. Scotch 3576,                                | SECTION 16170 - SAFETY AND DISCONNECT SWITCHES<br>PART 1 - GENERAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | RESTROOMS <sup>§</sup>                                                                                                                                                       |
|                                                        | 1.01 DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                              |
|                                                        | 1. The work covered in this section consists of providing disconnect switches complete with all required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PALM BEACH<br>FLORIDA                                                                                                                                                        |
|                                                        | accessories as indicated on the drawings and specified herein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                              |
| acturer's written                                      | 1.02 <u>QUALITY CRITERIA</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u></u>                                                                                                                                                                      |
| ciation's "Standard of<br>ve the intended              | <ol> <li>Disconnect switches shall be manufactured in accordance with the latest NEMA and UL standards.</li> <li>Manufacturer: Leviton as specified or approved equivalent.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ELECTRICAL                                                                                                                                                                   |
| amage or reduce the<br>ll be installed in a            | 1.03 SUBMITTALS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SPECIFICATIONS WY                                                                                                                                                            |
|                                                        | 1. Shop drawings shall indicate enclosure size, unit ratings and all information necessary to indicate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PLAN Z                                                                                                                                                                       |
| s.                                                     | compliance with plans and specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                              |
| n accordance with                                      | PART 2 - PRODUCTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                              |
|                                                        | <ul> <li>2.01 <u>DISCONNECT SWITCHES</u></li> <li>1. Type: single throw, heavy duty, with quick-make, quick-break contacts and interlocking covers. They</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                              |
|                                                        | shall be fusible or non-fusible, 600 volt, 2- or 3-pole, except where noted or specified otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 21129 <sup>g</sup>                                                                                                                                                           |
|                                                        | 2. Enclosure: Provide NEMA 4X/12 corrosion resistant enclosures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                              |
|                                                        | 3. Non-fused disconnect switches shall be horsepower rated for the motor installed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1                                                                                                                                                                            |
|                                                        | <ol> <li>Switches with current limiting fuses shall have rejection clips.</li> <li>Elynometry has a limit whet a use 242X to current list of 22. "I Plant "down the antide" hunt of 22. "I Plant "down the antide" here the antid</li></ol> |                                                                                                                                                                              |
| red for the installation                               | 5. F keqppgevuy kej gu'hqt'ukpi mg/r j cug'342X'o qvqtu'uk gf '3 'J R"cpf 'dgnqy 'uj cm'dg'Us wctg'F '4732'ugtkgu0<br>Mount in 4'' square box with industrial cover fry locations and a weatherproof box for damp locations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NOTE:<br>ALL DRAWINGS FOR THIS PROJECT ARE                                                                                                                                   |
|                                                        | PART 3 - EXECUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ALL DRAWINGS FOR THIS PROJECT ARE<br>TO BE READ IN CONJUNCTION WITH<br>EACH OTHER. THESE INCLUDE, BUT<br>ARE NOT LIMITED TO: ARCHITECTURAL,<br>SURVEYING, STRUCTURAL, CIVIL, |
| 3.                                                     | 3.01 INSTALLATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MECHANICAL, ELECTRICAL, SPECIALTY<br>DRAWINGS, AND WRITTEN SPEC-<br>IFICATIONS.                                                                                              |
|                                                        | <ol> <li>Provide an engraved phenolic nameplate for each switch as specified in other section; indicate voltage and<br/>equipment served.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CONTRACTOR TO VERIFY ALL EXISTING<br>SITE CONDITIONS AND THOROUGHLY                                                                                                          |
|                                                        | 2. Verify horsepower rating of disconnect switch with actual motor installed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CHECK ELEVATIONS AND DIMENSIONS<br>BEFORE COMMENCING WORK.<br>REPORT TO THE ARCHITECT ENGINEER                                                                               |
| nd in every instance of<br>res to be used, and         | 3. Mount on wall or backboard approximately 5' above the floor where possible.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ANY DISCREPANCIES, ERRORS OR<br>CONDITIONS THAT WILL ALTER<br>CONSTRUCTION AS INTENDED BY<br>THESE DRAWINGS. ARCHITECT IS                                                    |
| eld application of                                     | END OF SECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NOT RESPONSIBLE FOR ANY WORK<br>AND/OR MATERIALS FURNISHED<br>ON THE JOB.                                                                                                    |
| rroundings.                                            | SECTION 16500 - LIGHTING FIXTURES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                              |
| gs shall be provided.                                  | PART 1 - GENERAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                              |
|                                                        | 1.01 <u>DESCRIPTION</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 6                                                                                                                                                                          |
|                                                        | <ul> <li>A. The work covered in this section consists of furnishing and installing all lighting fixtures, complete with lamps<br/>and all accessories necessary for the complete installation as indicated on the drawings and specified herein.<br/>Contractor to submit unit pricing for all fixtures with the bid.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                              |
|                                                        | 1.02 QUALITY CRITERIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                              |
| resistant stainless steel                              | A. All fixtures and lamps as scheduled and indicated on the drawings and bid documents shall be furnished as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                              |
| ed by N.E.C.                                           | indicated on drawings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                              |
| oisture exposure.                                      | <ul> <li>B. All fixtures shall be listed by Underwriters Laboratories and bear the UL label.</li> <li>PART 2 - PRODUCTS</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5 10                                                                                                                                                                         |
|                                                        | 2.01 LAMPS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                              |
|                                                        | A. Furnished by contractor. Contractor is to furnish six (6) of spare lamps of each type used at final acceptance of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                              |
| ecurely anchored to the                                | project.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1/4"=1'-0" ¥S                                                                                                                                                                |
| all switch outlets so                                  | B. Manufacturer: General Electric.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | S S                                                                                                                                                                          |
|                                                        | 2.02 <u>LIGHTING FIXTURES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                              |
| ll be applied as follows:                              | A. As indicated on lighting fixture legend and specification package.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                              |
|                                                        | PART 3 - EXECUTIONMICHAEL A. TEELE, P.E.3.01 LIGHTING FIXTURESENGINEER OF RECORD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3/2612 H                                                                                                                                                                     |
| devices. Flush mounted                                 | A. Install all fixtures with specified lamps as indicated on the drawings. FLORIDA REGISTRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3/2612 H<br>MM H                                                                                                                                                             |
| actions. Trash mounted                                 | B. Coordinate fixture locations and mounting methods with existing structure prior to installation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                              |
|                                                        | SECTION END                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                              |
|                                                        | TEELE & ASSOCIATES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ġ                                                                                                                                                                            |
|                                                        | CONSULTING ENGINEERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | E2.1 m                                                                                                                                                                       |
|                                                        | DELRAY BEACH, FLORIDA 33445 (561) 455-2438                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                              |
|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <u>u</u>                                                                                                                                                                     |





| TEM NO | DESCRIPTION                             | MFGR. & MODEL NO                          | MATERIAL       | ACCESSORIES                                                                                                |
|--------|-----------------------------------------|-------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------|
| P-1    | WATER CLOSET<br>FLUSH VALVE<br>WALL MTD | KOHLER<br>STRATION<br>K-4450-C            | Vitreous China | SEAT KOHLER K-4670-C<br>VALVE SLOAN MODEL 110<br>CARRIER JOSAM 16123                                       |
| P-2    | LAVATORY<br>HANDICAPPED<br>WALL MOUNTED | KOHLER<br>WALL HUNG<br>K-12638            | Vitreoua China | CARRIER JOSAM 17100<br>CHICAGO FAUCET 807-E12-665PSHCP<br>TRAP ZURN-Z-8746/8711<br>STOP ZURN-ZH-8830-LR-LK |
| P-3    | URNIAL<br>FLUSH VALVE                   | KOHLER<br>STANWELL<br>K-4972-ET           | Vitreoua China | VALVE SLOAN MODEL 180<br>CARRIER ZOSAM 17560-UR                                                            |
| P-4    | SERVICE SINK                            | KOHLER<br>SUDBURY<br>K-6650               | Vitreous China | FAUCETKOHLERK8905-RPTRAPKOHLERK6673RIMGUARDKOHLERK-8934STOP(2)ZURN-ZH-8830-LR-LK                           |
| P-5    | FLOOR DRAIN                             | SIOUX CHIEF<br>FINISH LINE<br>832-35PNQ   | PVC            | 5" SQUARE NICKEL TOP                                                                                       |
| P-6    | SAND SEPARATOR                          | JOSAM<br>SOLID INTERCEPTOR<br>61806       | 9/9            |                                                                                                            |
| P-7    | CONCEALED<br>SHUTOFF                    | ACUDOR<br>S/S VALVE BOX<br>ARVB           | S/S            | SCREWDRIVER CAM LATCH<br>SIZE 8 X 8 X 6<br>VALVE WATTS B6081 SERIES                                        |
| P-8    | WATER HEATER                            | AO SMITH<br>EJC-6                         |                | COMPACT 6 GALLON<br>1500 WATT/120V                                                                         |
| P-9    | RINSE STATION                           | CHICAGO FAUCETS<br>621-CP<br>770-665PSHCP |                |                                                                                                            |
| H.B.   | HOSE<br>BIBB                            | WOODFORD<br>24P                           | BRONZE         |                                                                                                            |





# PLUMBING RISERS & SCHEDULES

# SECTION 15900 - PLUMBING WORK, GENERAL

### PART 1 - GENERAL

- 1.01 <u>DESCRIPTION</u>A. Provide labor, service and materials necessary to provide the work as shown on the drawings and specified including all necessary equipment and accessories.
- B. Except where portions of these specifications are more exacting, work of this division shall comply with all applicable provisions of the general scope of work.
- C. Requirements of General Conditions, Supplementary Conditions and Division 1 of the specification apply to work of this division. They shall be as binding as set-forth at length herein.
- D. This work shall be executed in an orderly and careful manner and shall conform to accepted AIA standards.
- E. Related documents that require plumbing coordination include, but are not limited to:
  1. Division 2, Site Work
  2. Division 9, Painting

### 1.02 WORK INCLUDED

- A. Work under this division includes, but is not necessarily limited to:
- 15900Plumbing Work, General

### 1.03 CODES, ORDINANCES AND REGULATIONS

- All work shall comply with governing codes, ordinances, and regulations of State, County and Local Municipalities which have jurisdiction.
- B. Codes and Standards: Unless modified by these specifications, the design, manufacture, testing, and method of installation shall conform to the latest adopted editions of the following:
   1. 2007 Florida Plumbing Code with amendments
  - 2007 Florida Mechanical Code with amendments
     NFPA-70, National Electrical Code, 2008 Edition
  - 4. ANSI, American National Standards Institute
- ASME, American Society of Mechanical Engineers
   ASTM, American Society of Testing and Material
- C. Where any of the above is at variance with the drawings and specifications, the code requirements shall take precedence and any cost necessary to meet these shall be included in the contract. Drawings are schematic and do not necessarily indicate individual code compliance. Contractor shall provide all necessary items to comply with the above codes within the scope of the contract.
- D. This contractor is assumed to be skilled in the trade and is solely responsible for compliance with all regulations, performing the work in a safe and competent manner, and in installation procedures required for this work. All supervision assigned to this project shall be experienced in this type of work.

### 1.04 PERMITS

A. Contractor is to obtain and pay for all permits, licenses, inspections, and connection fees required by governing bodies in connection with their work.

### 1.05 INSPECTION

A. Before submitting his proposal, each bidder shall visit the site and examine the premises so as to fully understand all of the existing conditions relating to his work. No allowance or consideration will be made for the lack of

- knowledge of materials to be furnished, work to be done, existing conditions, code requirements, or condition which to be complied.
- B. Examine surfaces to which work under this division will be contiguous. Notify Architect/Engineer, in writ of visible or latent defects which would prevent proper installation of work under this division. Commence of work shall be construed as acceptance of such surfaces.

1.06 DRAWINGS

- A. Subcontractor should examine structural, mechanical, and electrical drawings prior to submitting bid. Subcontractor will be required to furnish, install, and connect, with appropriate services, indicated items v additional expense to owner. Architect/Engineer shall be notified of discrepancies, omissions, conflicts, or interferences which occur between drawings or between drawings and specifications. If such notification received in adequate time, additional data or changes will be issued by addendum to all bidders. If notific is not received, it is implied that additional costs will not be incurred.
- B. Structural drawings shall take precedence over plumbing drawings with reference to construction. Plumbin drawings are diagrammatic but shall be followed as closely as actual construction and work by other trades permit. Necessary changes in spacing and location of plumbing fixtures and piping may be made provided overall patterns and layouts are not altered and remain uniform. Location of piping, fixtures, equipment, e will be coordinated with Architectural elevations and building floor plans.
- C. Changes from drawings necessary to make the work of subcontractors easier, will be done at their own ex
  D. Vj g'eqpytcevqt'ku'vq'o ckpvckp'\*3+'ugv'qh'õcu/dwknö'f qewo gpu'cv'yj g'lqdukg0''Vj gug'f tcy kpi u'uj cm'kpf kecvg'
- deviations to the construction documents and provide dimensions of critical equipment location. As-built drawings shall be delivered to the owner prior to final inspection.

# 1.07 CLAIMS FOR EXTRA WORK

- A. Claims for "EXTRAS" or additions to contract shall be made in writing by each subcontractor and submit Architect for approval. No claims for "EXTRA WORK" will be allowed unless authorization has been of in writing from Architect.
  B. Should contractor or his subcontractors start work without receiving approval in writing from Architect, it
- B. Should contactor of his subcontactors start work without receiving approval in writing from receiver, it be construed as acceptance by them that such work is required under their contract, and no further claim f "EXTRA" will be considered or allowed by Architect. Compensation for "EXTRA" work will be as indic in the General Conditions. Claim submittal must include material invoice copies and man hours/rates for specific extra claimed. No payment will be made without substantiation.

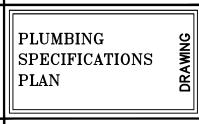
# 1.08 MAINTENANCE DATA AND OPERATIONAL MANUALS

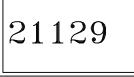
- A. Provide three complete bound sets of all maintenance data and operational manuals. These are to be trans to the owner upon completion of the project. Service manuals should contain but not be united to the following the project.
- 1. Title sheet with job name, and the names, addresses and phone numbers of the Contractor, subcontr control subcontractor, related contractor and material and equipment suppliers.
- 2. Index of contents.
- A copy of acknowledgement of instruction to the Owner's operating personnel in the operation of al plumbing equipment and systems, signed by the Owner or his authorized representative.
- 4. Typewritten operating instructions for the Owner's operating personnel describing how to control ar service each piece of equipment; how to set the control system for normal operation and normal rest procedures, and caution and warning notices.
- 5. Approved shop drawings, product data and parts and maintenance booklet for each item of material equipment furnished under Sections 15010 through 15649.
- 6. Guarantees, including extended guarantees.

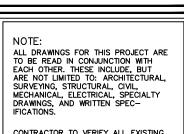
| ions with                              | 1.09 <u>GUARANTEE AND SERVICE</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | replacements, alterations or repairs shall be restored at no additional cost to the Owner.                                                                                                                                                                                                                                                                                                   |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| riting,                                | A. In addition to guarantee of equipment by manufacturer of each piece of equipment specified herein, each subcontractor shall also guarantee such equipment and make good any defect of material or workmanship                                                                                                                                                                                                                                                                                                                                                                                               | B. Where multiple items of equipments or materials are required they shall be the product of                                                                                                                                                                                                                                                                                                 |
| ncement                                | <ul><li>occurring during a period of (1) year from final acceptance test, without expense to owner.</li><li>B. Each subcontractor shall service systems for (1) year from final acceptance. Such service will include lubrication, necessary adjustment, and/or replacement of defective equipment and materials furnished.</li></ul>                                                                                                                                                                                                                                                                          | C. Inserts, pipe sleeves, hangers, supports, fixtures, trim, drains and anchorage of systems of provided as specified herein. Where such items are to be set or embedded in concrete, r the items shall be furnished and layout made at the proper time for the setting or embedded cause no delay in the work.                                                                              |
| without                                | 1.10 SHOP DRAWINGS AND MATERIAL CUTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | D. Piping assemblies of equipment shown on the drawings are diagrammatic. All piping as required for the proper operation of all equipment shall be provided.                                                                                                                                                                                                                                |
| or<br>n is<br>ication                  | A. Materials and equipment are specified herein by a single or by multiple manufacturers, to indicate quality, material, and type of construction desired. One manufacturer's product is indicated and has been used as basis for design; it shall be each subcontractor's responsibility to ascertain that alternate manufacturer's products conform to detailed specification, and that size and arrangement of equipment is suitable for installation. Products of other manufacturer's will be considered for use if in the Engineer's opinion, item requested for substitution is equal to that received. | <ul> <li>E. Provide reducing fittings as required for transition between pipe sizes.</li> <li>F. Keep all pipe and other equipment protected to prevent entry of foreign matter. Cover f apparatus as required for protection. Copper piping shall be stored insulated from other</li> </ul>                                                                                                 |
| bing<br>les will<br>ed the             | substitution is equal to that specified. Should a subcontractor desire to make a substitution, he should apply in writing, stating amount of credit or extra involved, including complete Engineering data.                                                                                                                                                                                                                                                                                                                                                                                                    | 2.02 STANDARD PRODUCTS                                                                                                                                                                                                                                                                                                                                                                       |
| xpense.                                | B. It shall be the responsibility of each subcontractor making a substitution to include changes required by other trades for proper operation of equipment proposed to be substituted. Substitutions shall be made at no additional cost to the owner.                                                                                                                                                                                                                                                                                                                                                        | A. Unless otherwise indicated in writing by the Architect/Engineer, the materials to be furre specification shall be the manufacturer's latest standard design. Where two or more unit equipment are required, these units shall be products of the same manufacturer. Units o components of the same purpose and rating shall be interchangeable throughout the projection.                 |
| g"cp{<br>It                            | C. Before purchase of equipment, submit (8) copies of shop drawings for approval. Identify each item submitted.<br>Information on shop drawings shall contain all that is necessary to show that equipment complied with<br>specifications and drawings. Show required modifications. One complete set of approved shop drawings shall<br>be kept at job site.                                                                                                                                                                                                                                                 | <ul> <li>2.03 <u>NEW MATERIALS</u></li> <li>A. All materials shall be newly manufactured. Defective equipment or equipment damager installation or test shall be replaced or repaired in a manner meeting with the approval or</li> </ul>                                                                                                                                                    |
| itted to                               | <ul> <li>D. <u>All submittals of plumbing materials or equipment shall be made at the same time contained within one binder and one letter of transmittal.</u></li> <li>E. Provide shop drawings for the following materials applicable to this project:</li> </ul>                                                                                                                                                                                                                                                                                                                                            | additional expense to the Owner.<br>2.04 <u>HARDWARE</u>                                                                                                                                                                                                                                                                                                                                     |
| bbtained<br>it will<br>for an<br>cated | <ul> <li>E. Provide shop drawings for the following materials applicable to this project:</li> <li>1. Plumbing Piping and Fittings</li> <li>2. Plumbing Fixtures, Stops, Trim and Drains</li> <li>3. Water Heating Equipment</li> </ul>                                                                                                                                                                                                                                                                                                                                                                        | A. All hardware, screws, bolts, nuts, and accessory fittings shall be of a type designed, inte<br>the use, and complement the items with which they are used, and shall have corrosion pr<br>atmosphere in which they are installed.                                                                                                                                                         |
| r                                      | Corrections or comments made on shop drawings during review do not relieve contractor from compliance with requirements of drawings and specifications. This check is only for review of general conformance with design concept of project, and general compliance with information given in contract documents.                                                                                                                                                                                                                                                                                              | PART 3 - EXECUTION 3.01 <u>SUPERVISION</u>                                                                                                                                                                                                                                                                                                                                                   |
| smitted<br>lowing:                     | 1.11 WATER SERVICE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <ul> <li>A. Maintain competent superintendent in charge of work. Superintendent shall be qualified<br/>experience in type of work involved. Plumbing supervision shall be by a certified journ<br/>permitting area.</li> </ul>                                                                                                                                                               |
| ractor,                                | <ul> <li>A. Potable water service shall be as indicated or as required by the local utility. Consultation and coordination with local utility company representative is a job requirement prior to start of project.</li> <li>1.12 <u>SANITARY SERVICE</u></li> </ul>                                                                                                                                                                                                                                                                                                                                          | B. Before starting his work and from time to time as work progresses, superintendent shall materials installed by others insofar as they apply to his own work, and shall notify the a writing of conditions which will prevent satisfactory results in installation of the system                                                                                                           |
| all                                    | A. Provide sanitary service as indicated on the drawings or as required by the local utility. Consult with utility company immediately after award of construction contract and reach agreement with its representatives as to installation details.                                                                                                                                                                                                                                                                                                                                                           | <ul><li>3.02 <u>INSTALLATION AND WORKMANSHIP</u></li><li>A. The work shall be performed by qualified mechanics and all materials, apparatus and eq</li></ul>                                                                                                                                                                                                                                 |
| and<br>starting                        | PART 2 - PRODUCTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | installed in neat, workmanlike manner. Any material, apparatus or equipment which, in Architect/Engineer, is improperly installed shall be removed and reinstalled in an appro additional cost to the Owner.                                                                                                                                                                                 |
| 0                                      | 2.01 <u>GENERAL</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Schedule work, and in every way possible cooperate with all other trades on the job to avoid delays,                                                                                                                                                                                                                                                                                         |
| al and                                 | A. Systems shall be provided complete. Should a system, or any part thereof fail to meet performance<br>requirements, necessary replacements, alterations or repairs, as required by the Architect/Engineer, shall be<br>made to bring performance up to specified requirements. All building construction and finishes damaged or<br>marred by such                                                                                                                                                                                                                                                           | unnecessary work. Before starting his work and from time to time as work progresses, superintende<br>and materials installed by others insofar as they apply to his own work, and shall notify the Architec<br>in writing of conditions which will prevent satisfactory results in installation of the system. Should<br>work without such notification, it shall be construed as acceptance |
|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                              |

| act of a single manufacturer.<br>ns components shall be<br>te, masonry or similar work,<br>bedment thereof so as to<br>g and appurtenances | <ul> <li>A. of claims or questions as to suitability of work of others to receive his work. He shall remove and replace, at his own expense, work under this contract which may have to be removed on account of such defects.</li> <li>C. The work shall be installed in accordance with the manufacturer's recommendation or instructions. Any material, apparatus or equipment which, in the opinion of the Architect/Engineer, is improperly installed shall be removed and reinstalled in an approved manner at no additional cost to the Owner.</li> <li>3.03 <u>CUTTING AND PATCHING</u> <ul> <li>A. Cutting and patching of walls, partitions, floors, concrete, pits and chases in wood and masonry will be done by this subcontractor as indicated or as directed by Architect/Engineer. Cutting of steel, wood, or other main structural parts must be approved by Architect/Engineer prior to commencing cutting.</li> </ul> </li> <li>3.04 <u>EXCAVATING AND BACKFILLING</u></li> </ul> |                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| er fixtures, equipment and<br>her materials.                                                                                               | <ul> <li>A. Excavation - Trenches for all underground pipelines shall be excavated to the required depths. The bottom of trenches shall be tamped hard and graded to secure the required fall. Bell holes shall be excavated so that pipe will rest on solid ground for its entire length. Rock, where encountered, shall be excavated to a depth of six (6)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           |
| furnished under this<br>units of the same class of<br>ts of equipment and<br>project.                                                      | <ul> <li>inches below the bottom of the pipe and, before pipe is laid, the space between the bottom of the pipe and rock shall be filled with approved backfill material. Waste water and potable water pipes shall be laid in separate trenches.</li> <li>B. Backfilling - After pipelines have been tested, inspected and approved by the Engineer, and prior to backfilling,</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | BRIDGES MARSH<br>& ASSOCIATES, INC.<br>CHARTERED ARCHITECTS               |
| aged in the course of<br>al of the Engineer at no                                                                                          | forms shall be removed and the excavation shall be cleaned of trash and debris. Materials for backfilling shall consist of the excavation or borrow of sand, gravel or other approved material and shall be free of trash, lumber, or other debris. Backfill shall be placed in horizontal layers of six (6) inches in thickness, each layer being properly moistened and compacted. Backfill shall be brought to a suitable elevation above grade to provide for settlement and shrinkage.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Eighteen Via Mizner<br>Palm Beach, Florida 33480<br>Phone: (561) 832 1533 |
| intended or appropriate for<br>n protection suitable for the                                                                               | <ul> <li>C. Provide all trenching, excavating, and backfilling required for the work indicated on the drawings. This shall include any and all dewatering required.</li> <li>3.05 <u>WATERPROOFING</u></li> <li>A. Do not cut or penetrate waterproofed surfaces or waterproofing membranes, without first making arrangements</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Fax: (561) 832 1520                                                       |
|                                                                                                                                            | for repair by a method approved by the Architect/Engineer.<br>3.06 <u>ACCESS DOORS (Access Panels)</u><br>A. Provide access required for maintenance, adjustment, removal and repair of any and all plumbing equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>E</b>                                                                  |
| ified and have suitable<br>urneyman licensed in the                                                                                        | <ul> <li>and like items furnished hereunder.</li> <li>3.07 <u>CLEANING AND ADJUSTMENTS</u></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ONSULTANT                                                                 |
| nall examine work and<br>he Architect immediately in<br>stem.                                                                              | A. Upon completion of work, each subcontractor shall clean, oil, and grease fans, motors, fixtures, and other<br>equipment and apparatus which he installs, and shall make certain such apparatus and mechanisms are in proper<br>working order and ready for test.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | S                                                                         |
|                                                                                                                                            | SECTION END                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                           |
| d equipment shall be<br>a, in the opinion of the<br>proved manner at no                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                           |
| nys, interferences and<br>ndent shall examine work<br>itect/Engineer immediately<br>Ild a subcontractor share his                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SEAL                                                                      |
|                                                                                                                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                           |

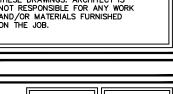


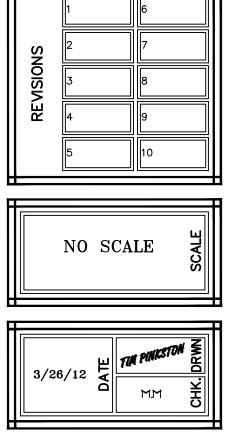






CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS AND THOROUGHLY CHECK ELEVATIONS AND DIMENSIONS BEFORE COMMENCING WORK. REPORT TO THE ARCHITECT ENGINEER ANY DISCREPANCIES, ERRORS OR CONDITIONS THAT WILL ALTER CONSTRUCTION AS INTENDED BY THESE DRAWINGS. ARCHITECT IS NOT RESPONSIBLE FOR ANY WORK AND/OR MATERIALS FURNISHED ON THE JOB.





P2.2

MICHAEL A. TEELE, P.E. ENGINEER OF RECORD FLORIDA REGISTRATION P.E. 32066

DATE:

JOB #1205



