### GENERAL NOTES

THIS CONSTRUCTION PROJECT MAY OR MAY NOT INCLUDE ALL ITEMS COVERED BY THESE NOTES AND SPECIFICATIONS, I.E. PAVING, GRADING, DRAINAGE LINES, WATER LINES, OR SANITARY SEWER LINES. SEE PLANS FOR DETAILED PROJECT SCOPE. NOTES AND SPECIFICATIONS ON THIS SHEET REFER TO PAVING, GRADING, DRAINAGE, WATER, AND SANITARY SEWER, AND ARE INTENDED FOR THIS PROJECTS SCOPE OF WORK AND FOR REFERENCE PURPOSES FOR OTHER WORK ITEMS THAT MAY BE REQUIRED DUE TO UNFORESEEN EXISTING CONDITIONS OR REQUIRED REMEDIAL WORK. SPECIFIC SITE NOTES 1.1. COUNTY AND "CITY" IN THESE NOTES REFERS TO COUNTY AND CITY IN WHICH PROJECT RESIDES. 1.2. STATE IN THESE NOTES REFERS TO THE STATE OF FLORIDA. 1.3. EXISTING TOPOGRAPHIC INFORMATION IN THE PLANS IS BASED ON SURVEY DATA AND BEST AVAILABLE INFORMATION. SEE PROJECT SURVEY AND NOTES ON PLAN SHEETS REGARDING THE SOURCE OF THE TOPOGRAPHIC INFORMATION. 2. APPLICABLE CODES 2.1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY, COUNTY, AND ALL OTHER JURISDICTIONAL, STATE AND NATIONAL CODES WHERE APPLICABLE. 2.2. IN THE EVENT OF A CONFLICT BETWEEN THE GENERAL NOTES AND CONSTRUCTION SPECIFICATIONS IN THESE PLANS, AND THE CONTRACT DOCUMENTS AND SPECIFICATIONS IN THE SPECIFICATION BOOKLET, THE CONTRACTOR SHALL SUBMIT WRITTEN REQUEST FOR CLARIFICATION. 2.3. ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AND ALL STATE AND JURISDICTIONAL SAFETY AND HEALTH REGULATIONS. 2.4. THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH FEDERAL, STATE, COUNTY, AND CITY LAWS, CODES, AND REGULATIONS. 2.5. ALL HANDICAP ACCESSIBLE AREAS TO CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA), STATE ADA CODES, AND FLORIDA BUILDING CODE ADA CODES LATEST EDITION. 2.6. TRENCH SAFETY ACT 2.6.1. ALL TRENCH EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 90-96 OF THE LAWS OF FLORIDA (THE TRENCH SAFETY ACT). 2.6.2. ALL TRENCH EXCAVATION IN EXCESS OF 5 FEET IN DEPTH SHALL BE UNDERTAKEN IN ACCORDANCE WITH O.S.H.A. STANDARD 29 CFR. SECTION 1926.650 SUBPART P. 2.6.3. THE CONTRACTOR SHALL SUBMIT WITH HIS CONTRACT A COMPLETED, SIGNED, AND NOTARIZED COPY OF THE TRENCH SAFETY ACT COMPLIANCE STATEMENT. THE CONTRACTOR SHALL ALSO SUBMIT A SEPARATE COST ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY CODES. 2.6.4. A TRENCH SAFETY SYSTEM, IF REQUIRED, SHALL BE DESIGNED BY THE EXCAVATION CONTRACTOR UTILIZING A SPECIALTY ENGINEER AS REQUIRED. 3. CONSTRUCTION NOTES: 3.1. CONTRACTOR SHALL TIE TO EXISTING GRADE BY EVENLY SLOPING FROM CLOSEST PROPOSED GRADE PROVIDED TO EXISTING GRADE AT LIMITS OF CONSTRUCTION, UNLESS OTHERWISE NOTED ON THE PLANS. IF NO LIMIT OF WORK LINE IS INDICATED, SLOPE TO ADJACENT PROPERTY LINE OR RIGHT-OF-WAY LINE, AS APPLICABLE. 3.2. UNLESS OTHERWISE INDICATED ON THE PLANS, ALL EXISTING MANHOLES, CATCH BASINS, METERS AND OTHER STRUCTURES, WHETHER INDICATED ON THE PLANS OR NOT SHALL BE ADJUSTED TO MATCH THE NEW GRADE, BY THE CONTRACTOR. 3.3. THE CURB SHALL BE SLOPED TO ACCOMMODATE THE NEW PAVEMENT, CATCH BASIN AND GRATE, AND THE SURFACE FLOW PATTERN. 3.4. THE CONTRACTOR SHALL USE CARE WHEN CUTTING THE EXISTING ASPHALT PAVEMENT AND DURING EXCAVATIONS, SO THAT THE EXISTING CATCH BASINS AND GRATES THAT ARE TO REMAIN WILL NOT BE DAMAGED. 3.5. THE CONTRACTOR SHALL MAINTAIN THE ROADWAY SLOPE WHEN RESURFACING THE ROADWAY. THE EDGE OF PAVEMENT SHALL MATCH THE NEW GUTTER LIP PER FDOT INDEX 300. 3.6. THE NEW SIDEWALK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GIVEN ELEVATIONS AND AT THE PROPER SLOPES DEPICTED IN THE SPECIFICATIONS, DETAILS AND STANDARDS. EXISTING DRIVEWAYS AND OTHER FEATURES SHALL BE MATCHED WHEN POSSIBLE AS DIRECTED BY THE ENGINEER. 3.7. RADII SHOWN ARE TO THE EDGE OF PAVEMENT. 3.8. ALL BENCH MARK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED AND REFERENCED BY THE CONTRACTOR IN THE SAME WAY AS PUBLIC LAND CORNERS. 3.9. ALL EXCESS MATERIAL IS TO BE DISPOSED BY THE CONTRACTOR WITHIN 72 HOURS. 3.10. IN AREAS WHERE THE BASE IS EXPOSED BY THE MILLING OPERATION, THE CONTRACTOR SHALL RESTORE THE BASE TO ITS ORIGINAL THICKNESS AND STRUCTURAL CAPACITY BEFORE PAVING OVER SUCH AREAS. THIS INCLUDES BUT IS NOT LIMITED TO RESTORING ORIGINAL DEGREE OF COMPACTION, MOISTURE CONTENT, COMPOSITION, STABILITY, AND INTENDED SLOPE. IF PAVING WILL NOT TAKE PLACE THE SAME DAY THE BASE IS EXPOSED AND REWORKED, THE BASE SHALL BE SEALED ACCORDING TO THE GOVERNING STANDARDS AND SPECIFICATIONS. ANY ADDITIONAL WORK RESULTING FROM THE CONTRACTOR'S FAILURE TO PROTECT THE EXPOSED BASE AS STATED ABOVE IN ORDER TO RESTORE THE ORIGINAL STRUCTURAL CAPACITY SHALL BE THE CONTRACTOR'S COST. 3.11. THE CONTRACTOR IS TO MAINTAIN EXISTING SIGNAGE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC. 3.12. THE TOPOGRAPHIC SURVEY INCLUDED WITH THIS SET OF PLANS

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REFLECTS PRE-DEMOLITION CONDITIONS AND DOES NOT REFLECT THE SITE CONDITIONS AFTER DEMOLITION. THE CONTRACTOR IS FULLY AND SOLELY RESPONSIBLE IN DETERMINING THE REQUIRED EARTHWORK FOR THE PROPOSED DEVELOPMENT OF THE SITE. THIS INCLUDES, BUT IS NOT LIMITED TO, ANY EXCAVATION/DREDGE AND FILL ACTIVITIES REQUIRED AT ANY PHASE OF THE PROJECT. THE CONTRACTOR SHALL USE THE FINAL APPROVED (RELEASED FOR CONSTRUCTION) PLANS, SURVEYS, GEOTECHNICAL REPORTS, AND ANY OTHER AVAILABLE INFORMATION FOR DETERMINING THE AMOUNT OF EXCAVATION/DREDGING AND FILLING REQUIRED. ANY QUANTITIES INCLUDED IN THE APPROVED PERMITS WERE ESTIMATED BY THE ENGINEER FOR PURPOSES OF OBTAINING THE PERMIT AND UNDER NO CIRCUMSTANCES SHALL BE USED BY THE CONTRACTOR IN LIEU OF PERFORMING THEIR OWN EARTHWORK CALCULATIONS REQUIRED FOR COST ESTIMATING AND BIDDING THE PROJECT.

- 3.13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR READING AND FAMILIARIZING THEMSELVES WITH ANY AND ALL AVAILABLE GEOTECHNICAL REPORTS PREPARED BY OTHERS AND/OR ANY RECOMMENDATIONS WRITTEN OR IMPLIED BY THE GEOTECHNICAL ENGINEER FOR THIS PROJECT. THE GEOTECHNICAL CONDITIONS AND RECOMMENDATIONS OUTLINED IN THESE REPORTS ARE IN FORCE AND IN FULL EFFECT AS PART OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL THE WORK ASSOCIATED WITH THIS PROJECT IS IN COMPLIANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. KEITH AND ASSOCIATES, INC. IS NOT RESPONSIBLE FOR THE SUITABILITY OR UNSUITABILITY OF THE SOILS ENCOUNTERED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE MEANS AND METHODS OF CONSTRUCTION USED CAN AND WILL ALLOW FOR THE SUCCESSFUL COMPLETION OF THE REQUIRED SITE IMPROVEMENTS.
- 3.14. THE CONTRACTOR SHALL ENSURE THAT THE AVAILABLE GEOTECHNICAL INFORMATION IS SUFFICIENT FOR HIS COMPLETE UNDERSTANDING OF THE SOIL CONDITIONS FOR THE SITE. IF ADDITIONAL GEOTECHNICAL INVESTIGATION IS REQUIRED BY THE CONTRACTOR, THIS ADDITIONAL WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- 3.15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RESTORATION OF EXISTING PAVEMENT, PIPES, CONDUITS, SPRINKLER HEADS, CABLES, ETC., AND LANDSCAPED AREAS DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS AND/OR THOSE OF HIS SUBCONTRACTORS AND SHALL RESTORE AT NO ADDITIONAL COST.
- 3.16. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, PERMISSION FROM THE OWNER, CITY AND ENGINEER. THE CONTRACTOR SHALL PROVIDE THE OWNER, CITY AND ENGINEER WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE. THE PROJECT ENGINEER SHALL COORDINATE WITH THE OWNER AND CITY PRIOR TO ISSUING WRITTEN APPROVAL TO THE CONTRACTOR.
- 3.17. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE CITY AND/OR ENGINEER, WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE CITY AND/OR ENGINEER ARE TO NOTIFY THE OWNER/ENGINEER OF THE DISCOVERY. THE OWNER/ENGINEER WILL ARRANGE FOR INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE ENGINEER.
- 3.18. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE CITY ENGINEERING INSPECTOR AND ENGINEER 48 HOURS IN ADVANCE OF THE EVENT TO NOTIFY THE CITY OF CONSTRUCTION START UP, OR TO SCHEDULE ALL REQUIRED TESTS AND INSPECTIONS INCLUDING FINAL WALK-THROUGHS.
- 4. PRECONSTRUCTION RESPONSIBILITIES

4.1. ALL UTILITY / ACCESS EASEMENTS TO BE SECURED PRIOR TO CONSTRUCTION.

- 4.2. NO CONSTRUCTION MAY COMMENCE UNTIL THE APPROPRIATE PERMITS HAVE BEEN OBTAINED FROM ALL MUNICIPAL, STATE, COUNTY, AND FEDERAL AGENCIES AND A PRE-CONSTRUCTION MEETING HAS BEEN CONDUCTED.
- 4.3. ALL REQUIRED GOVERNMENTAL AGENCY BUILDING PERMITS TO BE OBTAINED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION ACTIVITY.
- 4.4. CONTRACTOR TO COORDINATE CONSTRUCTION SCHEDULING FOR CONNECTION TO THE EXISTING WATER AND SEWER LINES WITH THE UTILITY DEPARTMENT THAT OWNS AND/OR MAINTAINS THE WATER AND SEWER LINES.
- 4.5. PRIOR TO THE START OF CONSTRUCTION, THE OWNER SHALL SUBMIT AN NPDES CONSTRUCTION GENERAL PERMIT (CGP) "NOTICE OF INTENT (N.O.I.) TO USE GENERIC PERMIT FOR STORM WATER DISCHARGE FROM CONSTRUCTION ACTIVITIES FORM (DEP FORM 62-621.300(4)(B)) TO FDEP NOTICES CENTER. THE CONTRACTOR WILL BE RESPONSIBLE FOR (1) IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) THAT WAS REQUIRED TO BE DEVELOPED PRIOR TO NOI SUBMITTAL, AND (2) RETENTION OF RECORDS REQUIRED BY THE PERMIT, INCLUDING RETENTION OF A COPY OF THE SWPPP AT THE CONSTRUCTION SITE FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL SITE STABILIZATION. A "NOTICE OF TERMINATION (N.O.T.) OF GENERIC PERMIT COVERAGE" FORM (DEP FORM 62-621.300(6)) MUST BE SUBMITTED TO FDEP TO DISCONTINUE PERMIT COVERAGE, SUBSEQUENT TO COMPLETION OF CONSTRUCTION. FOR ADDITIONAL INFORMATION SEE FDEP WEBSITE: HTTP://WWW.DEP.STATE.FL.US/WATER/ STORM WATER/NPDES.
- 4.6. PRIOR TO CONSTRUCTION OR INSTALLATION, 5 SETS OF SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AS REQUIRED FOR THE FOLLOWING ITEMS LISTED BELOW, BUT NOT LIMITED TO:

- •DRAINAGE: CATCH BASINS, MANHOLES, HEADWALLS, GRATES/TOPS, YARD DRAINS.
- •WATER: FIRE HYDRANTS, VALVES, BACKFLOW PREVENTER, DDCV, METER
- SEWER: MANHOLES, LIFT STATIONS (WETWELL, HATCHES, VALVES, PUMP DATA, ELECTRICAL PANEL)
- 4.0.1. CATALOGUE LITERATURE SHALL BE SUBMITTED FOR DRAINAGE, WATER AND SEWER PIPES, FITTINGS, AND APPURTENANCES.
- 4.0.2. PRIOR TO SUBMITTING SHOP DRAWINGS TO THE ENGINEER, THE CONTRACTOR SHALL REVIEW AND APPROVE THE DRAWINGS, AND SHALL NOTE IN RED ANY DEVIATIONS FROM THE ENGINEER'S PLANS OR SPECIFICATIONS.
- 4.0.3. INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST STRUCTURES ARE REQUIRED. CATALOGUE LITERATURE WILL NOT BE ACCEPTED FOR PRECAST STRUCTURES.
- 4.7CONTRACTOR TO SUBMIT MAINTENANCE OF TRAFFIC PLAN(S) IN ACCORDANCE WITH FDOT AND COUNTY REQUIREMENTS, AND SUBMIT FOR APPROVAL PRIOR TO BEGINNING CONSTRUCTION.
- 5. INSPECTIONS / TESTING:
- 5.1. THE CONTRACTOR SHALL NOTIFY IN WRITING THE OWNER, CITY, COUNTY, ENGINEER OF RECORD, AND ANY OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND PRIOR TO REQUIRED INSPECTIONS OF THE FOLLOWING ITEMS, WHERE APPLICABLE:
- CLEARING AND EARTHWORK
- STORM DRAINAGE SYSTEMS
- SANITARY SEWER SYSTEMS
- WATER DISTRIBUTION SYSTEMS
- SUBGRADE
- LIMEROCK BASE
- ASPHALT OR CONCRETE PAVEMENT
- SIDEWALKS, CONCRETE FLATWORK/CURBING
- •LANDSCAPING
- PAVEMENT MARKING AND SIGNAGE
- SIGNALIZATION
- SITE LIGHTING
- ELECTRICAL AND COMMUNICATION LINES
- •UTILITY CONDUITS
- IRRIGATION
- FINAL
- 5.1. THE OWNER, ENGINEER, AND JURISDICTIONAL PERMITTING AGENCIES MAY MAKE INSPECTIONS OF THE WORK AT ANY TIME. THE CONTRACTOR SHALL COOPERATE FULLY WITH ALL INSPECTIONS.
- 5.3. TESTING ALL TESTING REQUIRED BY THE PLANS AND SPECIFICATIONS SHALL BE PERFORMED BY A LICENSED / FDOT QUALIFIED TESTING COMPANY. REQUIRED TEST FOR ASPHALT AND LIMEROCK SHALL BE TAKEN AT THE DIRECTION OF THE ENGINEER OR THE JURISDICTIONAL GOVERNMENTAL AGENCY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- 6. TEMPORARY FACILITIES
- 6.1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, COMMUNICATIONS, AND ELECTRICITY, FOR HIS OPERATIONS AND WORKS, COST INCLUDED UNDER MOBILIZATION.
- 6.2. CONTRACTOR SHALL CONSTRUCT TEMPORARY FENCING TO SECURE CONSTRUCTION AREAS AT ALL TIMES, COST INCLUDED IN MOBILIZATION.
- 6.3. CONTRACTOR TO OBTAIN A SECURE STAGING AREA AND OBTAIN ALL NECESSARY APPROVALS FROM THE OWNER.
- 6.4. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN TEMPORARY LIGHTING AS REQUIRED TO LIGHT THE CONSTRUCTION PROJECT LIMITS AT ALL TIMES, TO AT LEAST THE SAME LIGHTING INTENSITY LEVELS AS THE EXISTING CONDITIONS.
- 6.5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES AT ALL TIMES.
- 7. PROJECT PROGRESS AND CLOSEOUT
- 7.1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEAN-UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE BROOM SWEPT CLEAN.
- 7.2. THE CONTRACTOR SHALL RESTORE OR REPLACE ANY PUBLIC OR PRIVATE PROPERTY (SUCH AS HIGHWAY, DRIVEWAY, WALKWAY, AND LANDSCAPING), DAMAGED BY HIS WORK, EQUIPMENT, OR EMPLOYEES, TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF CONSTRUCTION. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
- 7.3. MATERIAL OR DEBRIS SHALL BE HAULED IN ACCORDANCE WITH NPDES PERMIT AND JURISDICTIONAL LAWS.
- 7.4. ALL LAND SURVEY PROPERTY MONUMENTS OR PERMANENT REFERENCE MARKERS, REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 7.5. ALL UNPAVED SURFACES DISTURBED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE GRADED, SODDED, & RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED BEFORE THE CONSTRUCTION.
- 8. PROJECT RECORD DOCUMENTS:
- 8.1. DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE LOCATION. LENGTH, MATERIAL AND ELEVATION OF ANY FACILITY NOT BUILT ACCORDING TO PLANS. THIS COPY OF THE "AS-BUILT" SHALL BE SUBMITTED TO ENGINEER FOR PROJECT RECORD.

- 8.2. UPON COMPLETION OF DRAINAGE IMPROVEMENTS AND LIMEROCK BASE CONSTRUCTION (AT LEAST 48 HOURS BEFORE PLACING ASPHALT PAVEMENT) THE CONTRACTOR SHALL FURNISH THE ENGINEER OF RECORD "AS-BUILT" PLANS FOR THESE IMPROVEMENTS, SHOWING THE LOCATIONS AND PERTINENT GRADES OF ALL DRAINAGE INSTALLATIONS AND THE FINISHED ROCK GRADES OF THE ROAD CROWN AND EDGES OF PAVEMENT AT 50 FOOT INTERVALS, INCLUDING LOCATIONS AND ELEVATIONS OF ALL HIGH AND LOW POINTS.
- 8.3. UPON COMPLETION OF CONSTRUCTION, AND PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD ONE COMPLETE SET OF ALL "AS-BUILT" CONTRACT DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES, DIMENSIONS, LOCATIONS, AND ELEVATIONS OF ALL IMPROVEMENTS.
- 8.4. "AS-BUILT" DRAWINGS OF WATER LINES AND FORCE MAINS SHALL INCLUDE THE FOLLOWING INFORMATION:
- 8.4.1. TOP OF PIPE ELEVATIONS EVERY 100 LF.
- 8.4.2. LOCATIONS AND ELEVATIONS OF ALL FITTINGS INCLUDING BENDS, TEES, GATE VALVES, DOUBLE DETECTOR CHECK VALVES, FIRE HYDRANTS, AND APPURTENANCES.
- 8.4.3. ALL CONNECTIONS TO EXISTING LINES.
- 8.4.4. ENDS OF ALL WATER SERVICES AT THE BUILDINGS WHERE THE WATER SERVICE TERMINATES
- 8.5. "AS-BUILT" DRAWINGS OF GRAVITY SANITARY SEWER LINES SHALL INCLUDE THE FOLLOWING INFORMATION:
- 8.5.1. RIM ELEVATIONS, INVERT ELEVATIONS, LENGTH OF PIPING BETWEEN STRUCTURES, AND SLOPES.
- 8.5.2. THE STUB ENDS AND CLEANOUTS OF ALL SEWER LATERALS SHALL BE LOCATED HORIZONTALLY AND VERTICALLY.
- 8.6. "AS-BUILT" DRAWINGS OF ALL DRAINAGE LINES SHALL INCLUDE THE FOLLOWING INFORMATION:
- 8.6.1. RIM ELEVATION, INVERT ELEVATION, LENGTH OF PIPING BETWEEN STRUCTURES, AND CONTROL STRUCTURE ELEVATIONS IF APPLICABLE. 8.6.2. THE SIZE OF THE LINES.
- 8.6.3. DRAINAGE WELL STRUCTURE SHALL INCLUDE, BUT NOT BE LIMITED TO, TOP OF CASING ELEVATION, TOP AND BOTTOM ELEVATIONS OF THE
- STRUCTURE AND BAFFLE WALLS, RIM ELEVATIONS AND PIPE INVERTS. 8.7. "AS-BUILT" DRAWINGS OF CONSTRUCTION AREAS SHALL INCLUDE THE FOLLOWING:
- 8.7.1. ROCK ELEVATIONS AT ALL HIGH, AND LOW POINTS, AND AT ENOUGH INTERMEDIATE POINTS TO CONFIRM SLOPE CONSISTENCY.
- 8.7.2. ROCK ELEVATIONS AND CONCRETE BASE ELEVATIONS SHALL BE TAKEN AT ALL LOCATIONS WHERE THERE IS A FINISH GRADE ELEVATION SHOWN ON THE DESIGN PLANS.
- 8.7.3. ALL CATCH BASIN AND MANHOLE RIM ELEVATIONS.
- 8.7.4. FINISH GRADE ELEVATIONS IN ISLAND AREAS.
- 8.7.5. "AS-BUILT" ELEVATIONS SHALL BE TAKEN ON ALL PAVED AND UNPAVED SWALES, AT ENOUGH INTERMEDIATE POINTS TO CONFIRM SLOPE CONSISTENCY AND CONFORMANCE TO THE PLAN DETAILS.
- 8.7.6. LAKE AND CANAL BANK "AS-BUILT" DRAWINGS SHALL INCLUDE A KEY SHEET OF THE LAKE FOR THE LOCATION OF CROSS SECTIONS. LAKE AND CANAL BANK CROSS SECTIONS SHALL BE PLOTTED AT A MINIMUM OF EVERY 100 LF, UNLESS OTHERWISE SPECIFIED. "AS-BUILT" DRAWINGS SHALL CONSIST OF THE LOCATION AND ELEVATION OF THE TOP OF BANK, EDGE OF WATER, AND THE DEEP CUT LINE, WITH THE DISTANCE BETWEEN EACH SHOWN ON THE DRAWING.
- 8.7.7. RETENTION AREA "AS-BUILT" ELEVATIONS SHALL BE TAKEN AT THE BOTTOM OF THE RETENTION AREA AND AT THE TOP OF BANK. IF THERE ARE CONTOURS INDICATED ON THE DESIGN PLANS, THEN THEY SHALL BE INCLUDED IN "AS-BUILT" DRAWINGS AS WELL.
- 8.8. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL PREPARE "AS-BUILT" DRAWINGS ON FULL SIZE, 24" X 36" SHEETS. ALL "AS-BUILT" INFORMATION SHALL BE PUT ON THE LATEST ENGINEERING DRAWINGS. EIGHT (8) SETS OF BLUE OR BLACK LINE DRAWINGS SHALL BE SUBMITTED. THESE DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR.
- 8.9. AN ELECTRONIC COPY OF THESE "AS-BUILT" DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD IN AUTOCAD, VERSION 2008 OR LATER.
- 9. UTILITY NOTES
- 9.1. CONTRACTOR IS RESPONSIBLE FOR UTILITY VERIFICATION PRIOR TO FABRICATION.
- 9.2. THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT HAVE ELECTRIC, TELEPHONE, GAS, WATER AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN IN PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES FROM THE UTILITY COMPANIES.
- 9.3. THE CONTRACTOR SHALL USE HAND DIGGING WHEN EXCAVATING NEAR EXISTING UTILITIES. EXTREME CAUTION SHALL BE EXERCISED BY THE CONTRACTOR WHILE EXCAVATING, INSTALLING, BACKFILLING OR COMPACTING AROUND THE UTILITIES.
- 9.4. THE CONTRACTOR SHALL NOTIFY AND OBTAIN AN UNDERGROUND CLEARANCE FROM ALL UTILITY COMPANIES AND GOVERNMENTAL AGENCIES AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN A SUNSHINE811.COM CERTIFICATION CLEARANCE NUMBER AND FIELD MARKINGS AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION.
- PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 553.851 FOR THE PROTECTION OF UNDERGROUND GAS PIPELINES.

| COUNTY TRANSIT AUTHORITY     SCHOOL BOARD TRANSPORTATION AUTHORITY    | 301 East Atlantic Blvd. Pompano<br>Beach. FL 33060 |  |
|---|--|--|
| • JURISDICTIONAL FIRE DEPARTMENT DISPATCH                             | PH: (954) 788-3400                                 |  |
| • JURISDICTIONAL POLICE DEPARTMENT(S)                                 | Florida Certificate of Authorization: 7928         |  |
| 9.1. THE CONTRACTOR SHALL USE EXTREME CAUTION WORKING UNDER, OVER,    | Licensed Business Number: 6860                     |  |
| AND AROUND EXISTING ELECTRIC LINES. THE CONTRACTOR SHALL              | REVISIONS  |  |
| CONTACT THE ELECTRIC PROVIDER COMPANY TO VERIFY LOCATIONS,            | NO. DESCRIPTION DATE                               |  |
| VOLTAGE, AND REQUIRED CLEARANCES, ONSITE, IN RIGHT-OF-WAYS, AND IN    |  |  |
| EASEMENTS, PRIOR TO ANY CONSTRUCTION IN THE VICINITY OF EXISTING      |  |  |
| LINES.  |  |  |
| 9.2. LOCATION AND SIZE OF ALL EXISTING UTILITIES AND TOPOGRAPHY       |  |  |
| (FACILITIES) AS SHOWN ON CONSTRUCTION DRAWINGS ARE DRAWN FROM         |  |  |
| THE ACCURACY OF THE FACILITIES SHOWN OR FOR ANY FACILITY NOT          |  |  |
| SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE         |  |  |
| EXACT LOCATION (VERTICAL & HORIZONTAL) OF ANY EXISTING UTILITIES      |  |  |
| AND TOPOGRAPHY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL            |  |  |
| VERIFY THE ELEVATIONS AND LOCATIONS OF ALL EXISTING FACILITIES, IN    |  |  |
| COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY       |  |  |
| CONFLICT WITH THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL         |  |  |
| IMMEDIATELY NOTIFY THE ENGINEER SO THAT APPROPRIATE MEASURES          |  |  |
| CAN BE TAKEN TO RESOLVE THE CONFLICT.                                 |  |  |
| 9.3. THE CONTRACTOR SHALL COORDINATE THE WORK WITH OTHER              |  |  |
| CONTRACTORS IN THE AREA AND ANY OTHER UNDERGROUND UTILITY             | PRELIMINARY PLAN                                   |  |
| COMPANIES REQUIRED. THE CONTRACTOR SHALL COORDINATE                   | NOT FOR CONSTRUCTION                               |  |
| RELOCATION OF ALL EXISTING UTILITIES WITH APPLICABLE UTILITY          | THESE PLANS ARE NOT FULLY PERMITTED                |  |
| COMPANIES.  | DURING THE PERMITTING PROCESS.                     |  |
| 10. SIGNING AND PAVEMENT MARKINGS                                     | RESPONSIBILITY FOR THE USE OF THESE                |  |
| TU.T.ALL SIGNING AND PAVEMENT MARKINGS INSTALLED AS PART OF THESE     | ALL AGENCIES HAVING JURISDICTION OVER              |  |
| (FHWA) "MANUAL ON UNIFORM TRAFFIC CONTROL DEV/ICES" (MUTCO)           | THE PROJECT WILL FALL SOLELY UPON THE              |  |
| COUNTY TRAFFIC DESIGN STANDARDS AND FDOT DESIGN STANDARDS AS A        | USER.  |  |
| MINIMUM CRITERIA.   | ISSUE DATE: 03/17/21                               |  |
| 10.2.MATCH EXISTING PAVEMENT MARKINGS AT THE LIMITS OF                | DESIGNED BY: MC                                    |  |
| CONSTRUCTION.   | DRAWN BY: GR                                       |  |
| 10.3.REMOVAL OF THE EXISTING PAVEMENT MARKINGS SHALL BE               | CHECKED BY: JT                                     |  |
| ACCOMPLISHED BY WATER BLASTING OR OTHER APPROVED METHODS              | BID-CONTRACT:                                      |  |
| DETERMINED BY THE ENGINEER.   |  |  |
| 10.4.INCORRECTLY PLACED PAINT OR THERMOPLASTIC PAVEMENT MARKINGS      |  |  |
| OVER FRICTION COURSE WILL BE REMOVED BY MILLING AND REPLACING         | This item has been digitally signed and            |  |
| EXPENSE. THE ENGINEER MAY APPROVE AN ALTERNATIVE METHOD IF IT CAN     | Sealed by James A<br>Thiele, P.E. on               |  |
| BE DEMONSTRATED TO COMPLETELY REMOVE THE MARKINGS WITHOUT             | 05/14/2021   |  |
| DAMAGING THE ASPHALT.   | Printed copies of this document are not            |  |
| 10.5.PLACE ALL RETRO-REFLECTIVE PAVEMENT MARKERS IN ACCORDANCE        | STATE OF considered signed and sealed and the      |  |
| WITH STANDARD INDEX 17352 AND / OR AS SHOWN IN THE PLANS.             | Signature must be verified on any                  |  |
| 10.6.CAUTION SHOULD BE EXERCISED WHILE RELOCATING EXISTING SIGNS TO   | MALAN electronic copies.                           |  |
| PREVENT UNNECESSARY DAMAGE TO SIGNS. IF THE SIGN IS DAMAGED           | JAMES A THIELE PE                                  |  |
| BEYOND USE, AS DETERMINED BY THE ENGINEER, SIGNS SHALL BE             | FLORIDA REG. NO. 33256                             |  |
| REPLACED BY THE CONTRACTOR AT HIS EXPENSE.                            | (FOR THE FIRM)                                     |  |
| 10.7.ALL EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS    | CLIENT   |  |
| SIGN REMOVAL SHALL BE DIRECTED BY THE FNGINEER                        |  |  |
| 10.8.RELOCATED SIGN SUPPORT SYSTEM MUST MEET THE CURRENT DESIGN       |  |  |
| STANDARD.   |  |  |
| 10.9.THE CONTRACTOR SHALL PROVIDE AN INVENTORY OF EXISTING SIGNS      |  |  |
| TO REMAIN OR TO BE RELOCATED PRIOR TO STARTING THE JOB AND            |  |  |
| FORWARD THIS LIST TO THE ENGINEER. CONTRACTOR SHALL NOTIFY IF         |  |  |
| THERE ARE ANY MISSING OR DAMAGE SIGNS THAT THE PLANS SHOW TO          | PINNACLE   |  |
| REMAIN OR TO BE RELOCATED.  | 的合调调调+10年前,10前 能强度的关注管强度计                          |  |
| 10.10. ALL ROADWAY PAVEMENT MARKINGS SHALL BE THERMOPLASTIC IN        |  |  |
|   | PROJECT  |  |
|   |  |  |
|   |  |  |
|   |  |  |
| LATEST FDOT STANDARD SPECIFICATIONS                                   |  |  |
| • CONSIST OF MATERIALS CERTIFIED TO MEET THE RETROREELECTIVE          | PINNACLE 441                                       |  |
| SHEETING REQUIREMENTS OUTLINED IN THE CURRENT VERSION OF ASTM         |  |  |
| D4956 FOR TYPE-XI RETROREFLECTIVE SHEETING MATERIALS MADE WITH        |  |  |
| PRISIMS, EXCEPT FOR SCHOOL ZONE AND PEDESTRIAN SIGNS WHICH            |  |  |
| SHALL BE COMPRISED OF RETROREFLECTIVE FLUORESCENT                     |  |  |
| YELLOW-GREEN SHEETING CERTIFIED TO MEET ASTM D4956 TYPE IV            |  |  |
|   |  |  |
|   |  |  |
| 700 HIGHWAY SIGNING FOR FDOT SHEETING TYPE XI (OR TYPE IV FOR         |  |  |
| SCHOOL AND PEDESTRIAN SIGNS).   |  |  |
| 10.13.PATCH ATTACHMENT HARDWARE, SUCH AS COUNTERSUNK SCREWS OR        | GENERAL  |  |
| RIVET HEADS, WITH RETRO REFLECTIVE BUTTONS THAT MATCH THE COLOR       | CONSTRUCTION                                       |  |
| AND SHEETING MATERIAL OF THE FINISHED SIGN PANEL INCLUDING THE        |  |  |
| BACKGROUND, LEGEND OR BORDER.   | NUTES  |  |
| 10.14.ENSURE THE OUTSIDE CORNER OF SIGN IS CONCENTRIC WITH BORDER.    |  |  |
| ENSURE WHITE BORDERS ARE MOUNTED PARALLEL TO THE EDGE OF THE          |  |  |
| SIGN. ENSURE BLACK BURDERS ARE RECESSED FROM THE EDGE OF THE          |  |  |
| 10.15 LAYOUT PERMANENT FINAL STRIPING THAT LEAVES NO VISIOLE MADES AT | SHEET GLOOI  |  |
| TIME OF FINAL ACCEPTANCE.   |  |  |

9.1. FOR STREET EXCAVATION OR CLOSING OR FOR ALTERATION OF ACCESS

ROADWAY JURISDICTIONAL ENGINEERING / PUBLIC WORKS AUTHORITY.

TO PUBLIC OR PRIVATE PROPERTY, THE CONTRACTOR SHALL NOTIFY:

11074.01

PROJECT

NUMBER

### CONSTRUCTION SPECIFICATIONS

Section 20 - General Specifications Paving Grading Drainage and Earthwork 20.General

20.1. It is the intent of these specifications to describe the minimum acceptable technical requirements for the materials and workmanship for construction of site improvements for this project. Such improvements may generally include, but not to be limited to, clearing, grading, paving, removal of existing pavement storm drainage, water lines and sanitary sewers.

20.2. It is the intent that the Florida Department of Transportation (FDOT) "Standard Specifications for Road and Bridge Construction: (current edition) together with "Supplemental Specifications to the Standard Specifications for Road and Bridge Construction" (current edition), and the FDOT Roadway and Traffic Design Standards (current edition) be used where applicable for the various work, and that where such wording therein refers to the State of Florida and its Department of Transportation and personnel, such wording is intended to be replaced with the wording which would provide proper terminology; thereby making such "Standard Specifications for Road and Bridge Construction" together with the "FDOT Roadway and Traffic Design Standards" as the "Standard Specifications" for this project. If within a particular section, another section, article or paragraph is referred to, it shall be part of the Standard Specifications also. The Contractor shall abide by all local and State laws, regulations and building codes which have jurisdiction in the area.

20.3. The Contractor shall furnish all labor, materials and equipment and perform all operations required to complete the construction of a paving and drainage system as shown on the plans, specified herein, or both. It is the intent to provide a complete and operating facility in accordance with these specifications and the construction drawings. The material and equipment shown or specified shall not be taken to exclude any other incidentals necessary to complete the work.

20.4. All labor, materials, and methods of construction shall be in strict accordance with the plans and construction specifications and the minimum engineering and construction standards adopted by the unit of government which has jurisdiction and responsibility for the construction. Where conflicts or omissions exist, the jurisdictional government Engineering Department's standards shall govern. Substitutions and deviations from plans and specifications shall be permitted only when written approval has been issued by the Engineer.

20.5. Guarantee - all materials and equipment to be furnished and/or installed by the Contractor under this contract, shall be guaranteed for a period of (I) one year from the date of final acceptance thereof, against defective materials, design and workmanship. Upon receipt of notice from the owner of failure of any part of the guaranteed equipment or materials, during the guarantee period, the affected part or materials shall be replaced promptly with new parts or materials by the contractor, at no expense to the owner. In the event the Contractor fails to make necessary replacement or repairs within (7) seven days after notification by the owner, the owner may accomplish the work at the expense of the contractor.

21.Earthwork

21.1. All areas within the project limits shall be cleared and grubbed prior to construction. This shall consist of the complete removal and disposal of all trees, brush, stumps, roots, grass, weeds, rubbish and all other obstructions resting on or protruding through the surface of the existing ground to a depth of 1'. All work shall be in accordance with section 110 of the Standard Specifications.

21.2. None of the existing limerock material from demolished pavement is to be incorporated in the new limerock base, unless noted in plans. The existing limerock material from demolished pavement may be incorporated into the stabilized subgrade / subbase, or stabilized shoulder.

21.3. Fill material shall be classified as A-I. A-3. or A-2-4 in accordance with AASHTO N--145 and shall be free from vegetation and organic material. Not more than 12% by weight of fill material shall pass the no. 200 sieve.

21.4. All fill material in areas not to be paved shall be compacted to 95% of the maximum density as determined by AASHTO T-99.

- 21.5. All material of construction shall be subject to inspection and testing to establish conformance with the specifications and suitably for the uses intended. The Contractor shall notify the Engineer at least 24 hours prior to the time he will be ready for an inspection or test. The Contractor shall follow City and County inspection procedures. The Contractor shall not proceed with any phase of work dependent on an inspection or test of an earlier phase of work, prior to that test or inspection passing. The Contractor shall be responsible for providing certified material test results to the Engineer of record
- prior to the release of final certification by the Engineer. Test results must include, but may not be limited to, densities for subgrade and limerock, utilities, excavation, asphalt gradation reports, concrete cylinders, etc.
- 21.6. When encountered, muck shall be completely removed from the center line (10) ten feet beyond the edge of pavement each side. All such material shall be replaced by approved granular fill.

21.7. When encountered within drainage swales, hardpan shall be removed to full depth for a width of (5) five feet at the invert and replaced with granular materials.

21.8. All underground utilities and drainage installations shall be in place prior to subgrade compaction and pavement construction.

21.9. Ground adjacent to roadway/pavement having runoff shall be graded (2) two inches lower than the edge of pavement to allow for the placement of sod.

21.10.Site grading elevations shall be within 0.1' of the required elevation for non paved areas and all areas shall be graded to drain without ponding.

21.11. The Contractor shall perform all excavation, fill, embankment and grading to achieve the proposed plan grades including typical road sections, side slopes and canal sections. All work shall be in accordance with section 120 of the Standard Specifications. If fill material is required in excess of that generated by the excavation, the Contractor shall supply this material as required from off-site.

21.12.A 2" blanket of top soil shall be placed over all areas to be sodded or seeded and mulched within the project limits unless otherwise indicated on the plans.

21.13.Sod shall be St. Augustine unless otherwise indicated on the plans, and shall be placed on the graded top soil and watered to insure satisfactory condition upon final acceptance of the project.

22.Drainage

- 22.1. Inlets all inlets shall be the type designated on the plans, and shall be constructed in accordance with section 425 of the Standard Specifications. All inlets and pipe shall be protected during construction to prevent siltation in the drainage systems by way of temporary plugs and plywood or plastic covers over the inlets. The entire drainage system shall be cleaned of all debris prior to final acceptance.
- 22.2. Pipe specifications: the material type is shown on the drawings by one of the following designations:

• RCP = reinforced concrete pipe, ASTM designation C--76, section 941 of the Standard Specifications.

• CMP = corrugated metal (aluminum) pipe, ASTM designation M-196.

• CMP (smooth lined) = corrugated metal aluminum pipe, (smooth lined) ASTM

designation M-196.

- SCP = slotted concrete pipe, sections 941 and 942, of the Standard Specifications.
- PVC = polyvinyl chloride pipe.

• PCMP = perforated cmp, section 945, of the Standard Specifications • Corrugated High Density Polyethylene Pipe (HDPE) (12 Inches to 60 Inches), shall meet the requirements of FDOT Specification section 948-2.3.

22.3. Pipe backfill - requirements for pipe backfill crossing roads or parking areas shall be as defined in the section 125-8, of the Standard Specifications. Pipeline backfill shall be placed in 6 inch lifts and compacted to 100% of the standard proctor (AASHTO T--99 specifications)

22.4. Location of drainage structures shall govern, and pipe length may have to be adjusted to accomplish construction as shown on these plans.

22.5. Distance and lengths shown on plans and profile drawings are referenced to the inner walls of structures.

22.6. Filter fabric shall be Mirafi, Typar or equal conforming to section 985 of the Standard Specifications.

23. Asphalt Paving

23.1. Where new asphalt meets existing asphalt, the existing asphalt shall be saw cut to provide a straight even line. Prior to removing curb or gutter, the adjacent asphalt shall be saw cut to provide a straight even line.

23.2. Internal asphalt paving constructed on existing sandy soils shall be constructed with a 12" subgrade, compacted to a minimum density of 100% maximum density as determined by AASHTO T-99. The compacted subgrade shall be constructed in the limits shown on the plans. All subgrade shall have an LBR of 40 unless otherwise noted. 23.3. Asphaltic concrete surface course shall be constructed to the limits shown on the

plans. The surface course shall consist of the thickness and type asphaltic concrete as specified in the plans. All asphaltic concrete shall be in accordance with sections 320, 327, 330, 334, 336, 337, 337, 338, 339 and 341 of the Standard Specifications.

23.4. Limerock base shall be prepared, compacted and graded and shall be in accordance with section 200 of the Standard Specifications. All limerock shall be compacted to 98% per AASHTO T-180 and have not less than 70% of carbonates of calcium and magnesium unless otherwise designated. The Engineer shall inspect the completed base course and the Contractor shall correct any deficiencies and clean the base course prior to the placement of the prime coat. A tack coat will also be required if the Engineer finds that the primed base has become excessively dirty or the prime coat

has cured to the extent of losing bounding effect prior to placement of the asphaltic concrete surface course. The prime and tack coats shall be in accordance with section 300 of the Standard Specifications.

23.5. Limerock base material shall be placed in maximum 6" lifts. Bases greater than 6" shall be placed in two equal lifts. If, through field tests, the Contractor can demonstrate that the compaction equipment can achieve density for the full depth of a thicker lift, and if approved by the engineer, the base may be constructed in successive courses of not more than 8 inches (200 mm) compacted thickness.

23.6. Asphalt edges that are not curbed shall be saw cut to provide a straight even line to the dimensions shown on plans.

24.Concrete Construction

24.1. Concrete sidewalk shall be in accordance with section 522 of the Standard Specifications and in accordance with F.D.O.T. Roadway and Traffic Design Standards, index no. 310. Concrete sidewalk shall be 4" thick, unless otherwise not and constructed on compacted subgrade, with 1/2" expansion joints placed at a maximum of 75', unless otherwise noted on plans. Crack control joints shall be 5' on center. All concrete sidewalks that cross driveways shall be 6" thick, unless otherwise noted on

24.2. Sidewalk Curb ramps hall be in accordance with F.D.O.T. Roadway and Traffic Design Standards, index no. 304.

24.3. Concrete curb shall be constructed to the limits shown on the plans. The concrete shall have a minimum compressive strength of 2500 PSI at 28 days and shall be in accordance with section 520 of the Standard Specifications. Concrete curbing shall be in accordance with F.D.O.T. Roadway and Traffic Design Standards, index no. 300. 24.4.

Section 30 - Water distribution and sanitary sewer force mains.

30. Materials:

Note: If materials list here on are in conflict with utility owner, material owner requirements shall govern.

- 30.1. All water main pipe, including fittings, shall be color coded or marked using blue as a predominant color to differentiate drinking water from reclaimed or other water. Underground plastic pipe shall be solid-wall blue pipe, shall have a co-extruded blue external skin, or shall be white or black pipe with blue stripes incorporated into, or applied to, the pipe wall; and underground metal or concrete pipe shall have blue stripes applied to the pipe wall. Pipe striped during manufacturing of the pipe shall have continuous stripes that run parallel to the axis of the pipe, that are located at no greater than 90-degree intervals around the pipe, and that will remain intact during and after installation of the pipe. If tape or paint is used to stripe pipe during installation of the pipe, the tape or paint shall be applied in a continuous line that runs parallel to the axis of the pipe and that is located along the top of the pipe; for pipes with an internal diameter of 24 inches or greater, tape or paint shall be applied in continuous lines along each side of the pipe as well as along the top of the pipe.
- 30.2. Ductile iron pipe for water distribution mains shall conform to ANSI/AWWA standard C151/A21.51 latest revision, "ductile iron pipe centrifugally cast in metal molds or sand-lined molds" with a minimum wall thickness of class 51 (pressure class 350) unless otherwise noted in the plans. Ductile iron pipe shall be cement lined and seal coated in accordance with ANSI/AWWA standard C104/A21.4 latest revision. The pipe shall be adapted for use with class 250 fittings for all sizes. Water main shall be colored blue in accordance with Florida State Statutes.
- 30.3. Ductile iron pipe for sewage force mains shall conform to ANSI/AWWA standard C151/A21.51 latest revision, "ductile iron pipe centrifugally cast in metal molds or sandlined molds" with a minimum wall thickness of class 51 (pressure class 350) unless otherwise noted in the plans. Ductile iron pipe shall be interior ceramic epoxy lined and exterior coated with the manufacturer's coating system (Protecto 401 ceramic epoxy with a minimum dry film thickness of 40 mils and an outside coating of either coal tar epoxy or asphalt). Cement mortared linings are not appropriate for this application.
- 30.4. All pipe & fittings on the lift station sites shall be ductile iron conforming to the same specifications as above for sewage force mains except that flanged ductile iron pipe & fittings shall be used inside valve pits and wet wells. Flanged pipe and fittings shall conform to ANSI/AWWA C115/a21.15 latest revision and ANSI/AWWA C110/A21.10 latest revision. The following thickness classes shall be adhered to: 4" -12" - class 52, 14" & larger - class 51.
- 30.5. PVC pressure pipe for sizes 4" through 12" and shall conform to ANSI/AWWA standard C900 latest revision. PVC pressure pipe shall be made from class 12454-a or class 12454-b virgin material and conform with the outside diameter of cast iron pipe with a minimum wall thickness of dr series 18. Ultra violet degradation or sun bleached pipe will be cause for rejection. Water main shall be colored blue in accordance with

Florida State Statutes. Force main shall be impregnated with green pigment. Reuse main shall be impregnated with purple pigment.

30.6. Ductile iron fittings for water distribution mains shall conform to ANSI/AWWA standard C110/A21.10 latest revision. Fittings 4" and larger shall be cement lined and seal coated in accordance with ANSI/AWWA standard C104/A21.4 latest revision. Water Main fitting shall be colored blue in accordance with Florida state statutes.

30.7. Cast iron and ductile iron fittings for sewage force mains shall conform to ANSI/AWWA standard C110/A21.10 latest revision. Fittings 4" and larger shall be coated in accordance with the requirements of ductile iron pipe for sewage force mains.

30.8. Joints for bell and spigot ductile iron pipe and fittings shall conform to ANSI/AWWA standard C111/A21.11 latest revision. Mechanical joint or push-on joint to be rubber gasket compression-type. Special fittings and joints shall be considered for specific installation subject to the approval of the engineer.

30.9. Joints for PVC pressure pipe shall be bell and spigot push-on rubber gasket type only. No solvent weld or threaded joints will be permitted.

30.10. Water distribution system restraint: all fittings and specific pipe joints shall be restrained as outlined below:

Joint restraint

- Push-on P.V.C. EBAA iron series 1600 • Push-on DIP EBAA iron series 1700
- tr-flex by U.S. Pipe or
- flex ring by American
- Fittings w/ DIP EBAA iron series 1100 megalug
- Fittings w/ P.V.C. EBAA iron series 2000 megalug
- Length of restrained pipe shall be as indicated on restrained joint pipe detail. (see water & sewer detail sheet)

30.11. Sewage force main system restraint: all fittings and specific pipe joints shall be restrained as outlined below

- Joint restraint
- Push-on P.V.C. EBAA iron series 1600
- Push-on DIP EBAA iron series 1700
- tr-flex by U.S. Pipe or flex ring by American
- Fittings w/ DIP EBAA iron series 1100 megalug
- Fittings w/ P.V.C. EBAA iron series 2000 megalug
- Length of restrained pipe shall be as indicated on restrained joint pipe detail. (see water & sewer detail sheet)

30.12. Water distribution valves shall be gate valves, iron body, fully resilient seat bronzed mounted non-rising stem, rated at 200 PSI and conforming to ANSI/AWWA C509 latest revision, and shall have mechanical joints.

- 30.12.1. Gate valves 4" and larger shall be Mueller A-2360, American 250 line or Clow F-6100, conforming to ANSI/AWWA C500 latest revision or approved equal. 30.12.2. Tapping valves shall be Mueller T-2360 or approved equal.
- 30.12.3. Gate valves 3" or less shall be Nibco T-133 or T-136 with malleable hand wheels or approved equal.
- 30.13. Tapping sleeves shall be Mueller H615, Clow F- 2505 or approved equal.

30.14. Valve boxes shall be U.S. foundry 7500 or approved equal painted blue with the designation "water".

- 30.15. Retainer glands for DIP shall conform to ANSI/AWWA C111/A21.11 latest revision. All glands shall be manufactured from ductile iron as listed by underwriters laboratories for 250 psi minimum water pressure rating. Clow corporation model f-1058, standard fire protection equipment company or approved equal.
- 30.16.Dresser couplings shall be regular black couplings with plain gaskets for galvanized steel pipe. They shall be dresser style 90. No substitutions allowed.
- 30.17. Fire hydrants shall be Mueller centurion traffic type A-423 with 5 1/4" internal valve opening or approved equal. Pumper nozzle to be 18" from finished grade. All hydrants to be installed with control valve. Retainer glands are preferred for restraining. Fire hydrant shall comply with ANSI/AWWA C502 latest revision. Fire hydrants shall be painted in accordance with NFPA #291 or per agency standards having jurisdiction. Blue raised reflective pavement marker (rpm) shall be used to identify fire hydrant location. The placement of the rpm to be at the centerline of the outside roadway lane.
- 30.18. Sewage force main valves shall be plug valves which shall be of the non-lubricated, eccentric type with resilient faced plugs, port areas for valves 20 inches and smaller shall be at least 80% of full pipe area. Port area of valves 24 inches and larger shall be at least 70% of full pipe area. The body shall be of semi-steel (ASTM A-126 C1.b) and shall have bolted bonnet which gives access to the internals of the valve. Seats shall be welded overlay of high nickel content or a stainless steel plate locked in the body cavity. If a plate is used, it shall be replaceable through the bonnet access. Bearings shall be permanently lubricated of stainless steel, bronze or Teflon lined, fiber glass backed Duralon. Bearing areas shall be isolated from the flow with grit seals. Valves shall have packing bonnets where the shaft protrudes from the valve and the packing shall be self-adjusting chevron type which can be replaced without removing the bonnet. All nuts, bolts, springs and washers shall be stainless steel.
- 30.19.Plug valves shall be designed for a working pressure of 150 PSI the valve and actuator shall be capable of satisfactory operation in either direction of flow against pressure drops up to and including 100 PSI (for plug valves over 12" in diameter). Valves shall be bubble tight in both directions at 100 psi differential. Plug valves over 12" in diameter shall have worm gear operators. The operating mechanism shall be for buried service with a 2 inch square operating nut
- 30.20.Plug valves are to be installed with the seat pointed towards the upstream flow, when specified.
- 30.21. Swing check valves for water, sewage, sludge, and general service shall be of the outside lever and spring or weight type, in accordance with ANSI/AWWA C 508 latest revision swing-check valves for waterworks service, 2" through 24" NPS, unless otherwise indicated, with full-opening passages, designed for a water-working pressure of 150 PSI they shall have a flanged cover piece to provide access to the disc.
- 30.22. High density polyethylene pipe (HDPE) for water distribution mains shall conform to AWWA C906 standard, latest revision. Pipes shall be color-coded blue, minimum 40 feet standard lengths.
- 31.Service connection:
- 31.1. Service saddles shall be fusion bonded plastic coated ductile iron (ASTM A536) with stainless steel straps, saddles shall be double strap type.
- 31.2. Service lines shall be polyethylene (PE 3408), 200 p.s.i rated, DR9. Pipe joints shall be of the compression type totally confined grip seal and coupling nut.
- 31.3. Corporation stops shall be manufactured of brass alloy in accordance with ASTM B-62 with threaded ends, as manufactured by Ford ballcorp, catalog # 1100 or approved equal.
- 31.4. Curb stops shall be Ford v63-44w-x" latest revision or approved equal.
- 31.5. Meter stops shall be 90 degree lockwing type and shall be of bronze construction in accordance FV63-777W" latest revision with ASTM B-62. Meter stops shall be closed bottom design and resilient "0" ring sealed against external leakage at the top. Stops

- 32.2. All PVC pipe shall be installed in accordance with the uni-bell plast association "guide for installation of PVC pressure pipe for municipal water dist system," and ANSI/AWWA C605-xx latest revision standard.
- 32.3. All DIP shall be installed in accordance with ANSI/ C600-xx latest revision. 32.4. All water mains shall typically be laid with a minimum 36" cover for PVC cover for DIP.
- 32.5. Detector tape shall be laid 18 inches above all water and sewer lines. A 14 multi-strand wire shall be attached to all nonconductive water mains to facilitate An extra 4 feet of wire shall be provided at all valves, blow-offs, hydrants, etc.
- shall be tested for continuity at the pressure test. 32.6. Pipe deflection shall not exceed 50% of the maximum deflection recommen the manufacturer.
- 32.7. A continuous and uniform bedding shall be provided. Backfill material placed in accordance with the plans and specifications.
- 32.8. All valves shall be installed with adjustable cast iron valve boxes with the "water" or "sewer", as applicable, cast in the cover. U.S. foundry or approved equa 33. Testing:
- 33.1. Before any physical connections and acceptance for operation to the existin mains are made, the complete water system shall be flushed, pressure test disinfected. Copies of passing bacteriological results and pressure test results submitted to, and approved by, the engineer, utility owner, and health depa Hydrostatic testing of new mains shall be performed at a minimum starting pres 150 PSI for two hours in accordance with ANSI/AWWA C600-05 (hydrostatic te pressure test shall not vary more than 5 PSI during the test. The allowable during the pressure test shall be less than the number of gallons per determined by the formula:

- Transmission mains: every 1200 feet
- Branch mains: every 1000 feet
- Isolated mains < 1000 feet: 2 sample points
- Isolated mains > 1000 feet: 3 sample points

- 40.General: 40.1. Manhole, valve box, meter box and other structure rim elevations within t of construction are to be adjusted to conform to plan grades proposed in these no other individual cost item is included in the contract schedule for a pa
- structure adjustment. 40.2. Distance and lengths shown on plans and profile drawings are referenced center of structures.

- Note: If materials list here on are in conflict with utility owner, material requirements shall govern.
- 41.1. All PVC sewer pipe and fittings shall be non-pressure polyvinyl chloride (PV conforming to ASTM D 3034, SDR 26, with push-on rubber gasket joints.
- 41.2. Ductile iron pipe shall conform to ANSI/AWWA C151/A21.51-xx latest "ductile iron pipe centrifugally cast in metal molds or sand-lined molds" w thickness class 51 for 8" and above, class 52 for 4" and 6", unless otherwise dire the engineer. Ductile iron pipe shall be epoxy lined or coated with the manufa coating system as approved by the engineer of record and the local municip utility owner. In either case, the engineer's review and approval is required for alternative prior to construction. Cement mortared linings are not appropriate application.
- 41.3. All ductile iron fittings shall conform to ANSI/AWWA standard C110/A2 latest revision. All fittings and accessories shall be epoxy lined and as manufact supplied by the pipe manufacturer or approved equal.
- 41.4. Manholes shall be precast per ASTM C 478 and in accordance with the pla specifications.
- 41.5. Manholes are to be sealed with type II sulphate resistant cement or approve no molding plaster.
- 41.6. Joints for bell and spigot ductile iron pipe and fittings shall conform to ANSI, standard C111/A21.11-xx latest revision. Mechanical joint or push-on joint to be
- gasket compression- type. 41.7. PVC clean-outs to have screw type access plug. Long radius wye connection
- fittings shall be used in order to access clean-out operations. 41.8. Cleanouts shall be installed at all sewer services exceeding 75' in length 75') with a clean out at the property line, easement line, or 5' from a building contractor shall coordinate the location of the building cleanout (5' from the build elevation of the end of the sewer service with the building plumbing con Cleanouts shall be the same size as the service lateral in which they are installed
- 42. Installation: 42.1. PVC sewer pipe shall be laid in accordance with ASTM D 2321 and the plastic pipe association's "recommended practice for the installation of PVC
- pipe." 42.2. DIP shall be installed in accordance with ANSI/AWWA C-600-xx latest revis
- 42.3. Pipe to manhole connection to be Fernco neoprene boot couplings with s steel accessories or approved equal.
- 42.4. Manholes shall be set plumb to line and grade on firm subgrade providing bearing under the base.

| <ul> <li>shall be equipped with a meter coupling nut on the outlet sides, as manufactured by Ford or approved equal.</li> <li>32. Installation:</li> <li>32.1. Where restrained pipe joints are required due to fittings, appurtenances, etc., pipe</li> </ul>  | lamping of lines. After the application of each coat, the utility owner and engineer shall inspect the manholes. The inspection shall be scheduled a minimum of 48 hours prior to inspection.<br>43.Testing: Testing of gravity sewer mains and laterals shall be in accordance with the | 301 East Atlantic Blvd. Pompano   |
|---|--|---|
| material shall be DIP   | utility owner's minimum design and construction standards latest revision.   | Beach, FL 33060<br>PH: (954) 788-3400   |
| 32.2. All PVC pipe shall be installed in accordance with the uni-bell plastic pipe association "guide for installation of PVC pressure pipe for municipal water distribution  | 43.1. After construction of the sewer system, the engineer may require a visual infiltration and/or exfiltration test to be performed on the entire system or any part thereof.  | Florida Certificate of Authorization: 7928  |
| system," and ANSI/AWWA C605-xx latest revision standard.  | 43.2. An air test may be substituted for the water exfiltration test, upon approval of the   | Licensed Business Number: 6860  |
| 32.3. All DIP shall be installed in accordance with ANSI/ C600-xx latest revision.<br>32.4. All water mains shall typically be laid with a minimum 36" cover for PVC and 30"  | 43.3. The allowable limits of sewer pipe leakage for gravity sewer mains shall not exceed  | NO. DESCRIPTION DATE  |
| cover for DIP.  | 100 gallons per inch of inside pipe diameter per mile per day for any section tested. No visible leakage shall be allowed  |   |
| 32.5. Detector tape shall be laid 18 inches above all water and sewer lines. A 14 gauge multi-strand wire shall be attached to all nonconductive water mains to facilitate location. An extra 4 feet of wire shall be provided at all valves, blow-offs, hydrants, etc. The wire shall be tested for continuity at the pressure test.   | 43.4. The installed sewers may require video inspections.  |   |
| 32.6. Pipe deflection shall not exceed 50% of the maximum deflection recommended by the manufacturer.   |  |   |
| 32.7. A continuous and uniform bedding shall be provided. Backfill material shall be  |  |   |
| placed in accordance with the plans and specifications.<br>32.8. All valves shall be installed with adjustable cast iron valve boxes with the word  |  |   |
| "water" or "sewer", as applicable, cast in the cover. U.S. foundry or approved equal.   |  |   |
| <ul> <li>33. Testing:</li> <li>33.1. Before any physical connections and acceptance for operation to the existing water mains are made, the complete water system shall be flushed, pressure tested and disinfected. Copies of passing bacteriological results and pressure test results must be submitted to, and approved by, the engineer, utility owner, and health department. Hydrostatic testing of new mains shall be performed at a minimum starting pressure of 150 PSI for two hours in accordance with ANSI/AWWA C600-05 (hydrostatic test). The pressure test shall not vary more than 5 PSI during the test. The allowable leakage</li> </ul> |  |   |
| during the pressure test shall be less than the number of gallons per hour as determined by the formula:<br>L = (cd(p))/(2)/(148,000)   |  | PRELIMINARY PLAN<br>NOT FOR CONSTRUCTION  |
| In which L equals the allowable leakage in gallons per hour. S equals length of pipe  |  | AND ARE SUBJECT TO REVISIONS MADE   |
| (linear feet), d equals nominal diameter of pipe (inches) and p equals the average test<br>pressure (pounds per square inch gauge). Maximum length of test pipe section should  |  | RESPONSIBILITY FOR THE USE OF THESE   |
| be 2000 feet. The water system shall be disinfected in accordance with the  |  | PLANS PRIOR TO OBTAINING PERMITS FROM<br>ALL AGENCIES HAVING JURISDICTION OVER          |
| ANSI/AWWA C651-05 (water main bacteriological tests).<br>33.2. The pressure test shall be witnessed by a representative of the utility owner and  |  | THE PROJECT WILL FALL SOLELY UPON THE<br>USER.  |
| the engineer of record.   |  | ISSUE DATE: 03/17/21  |
| the locations shown on the plans.   |  | DESIGNED BY: MC   |
| 33.4. For water distribution pipes, disinfection and bacteriological testing shall be in accordance with ANSI/AWWA C651-14 (water main bacteriological tests). Maximum  |  | DRAWN BY: GR<br>CHECKED BY: .IT   |
| distance between sampling points shall be as follows:   |  | BID-CONTRACT:   |
| <ul> <li>Transmission mains: every 1200 feet</li> <li>Branch mains: every 1000 feet</li> </ul>  |  |   |
| <ul> <li>Isolated mains &lt; 1000 feet: 2 sample points</li> </ul>  |  | This item has been  |
| <ul> <li>Isolated mains &gt; 1000 feet: 3 sample points</li> </ul>  |  | digitally signed and<br>sealed by James A<br>Thiele P E on                              |
| Section 40 - Gravity Sanitary Sewer Collection System   |  | No. 33256 05/14/2021  |
| <ul><li>40.General:</li><li>40.1. Manhole, valve box, meter box and other structure rim elevations within the limits of construction are to be adjusted to conform to plan grades proposed in these plans. If</li></ul>   |  | = Printed copies of this<br>document are not<br>considered signed<br>and sealed and the |
| no other individual cost item is included in the contract schedule for a particular structure adjustment.   |  | verified on any<br>electronic copies.   |
| 40.2. Distance and lengths shown on plans and profile drawings are referenced to the  |  | JAMES A. THIELE, P.E.   |
| 41. Materials:<br>Note: If materials list here on are in conflict with utility owner, material owner  |  | FLORIDA REG. NO. 33256<br>(FOR THE FIRM)  |
| requirements shall govern.<br>41.1. All PVC sewer pipe and fittings shall be non-pressure polyvinyl chloride (PVC) pipe   |  | CLIENT  |
| conforming to ASTM D 3034, SDR 26, with push-on rubber gasket joints.   |  |   |
| "ductile iron pipe centrifugally cast in metal molds or sand-lined molds" with wall   |  |   |
| thickness class 51 for 8" and above, class 52 for 4" and 6", unless otherwise directed by the engineer. Ductile iron pipe shall be epoxy lined or coated with the manufacturer's  |  |   |
| coating system as approved by the engineer of record and the local municipality or<br>utility owner. In either case, the engineer's review and approval is required for either  |  |   |
| alternative prior to construction. Cement mortared linings are not appropriate for this   |  |   |
| 41.3. All ductile iron fittings shall conform to ANSI/AWWA standard C110/A21.10-xx  |  |   |
| <ul><li>latest revision. All fittings and accessories shall be epoxy lined and as manufactured or supplied by the pipe manufacturer or approved equal.</li><li>41.4. Manholes shall be precast per ASTM C 478 and in accordance with the plans and</li></ul>  |  | PROJECT   |
| specifications.<br>41.5. Manholes are to be sealed with type II sulphate resistant cement or approved equal   |  |   |
| <ul> <li>- no molding plaster.</li> <li>41.6. Joints for bell and spigot ductile iron pipe and fittings shall conform to ANSI/AWWA standard C111/A21 11-xx latest revision. Mechanical joint or push-on joint to be rubber.</li> </ul>  |  | PINNACLE 441  |
| gasket compression- type.   |  |   |
| fittings shall be used in order to access clean-out operations.   |  |   |
| 41.8. Cleanouts shall be installed at all sewer services exceeding 75' in length (every 75') with a clean out at the property line, easement line, or 5' from a building. The   |  |   |
| contractor shall coordinate the location of the building cleanout (5' from the building) and  |  |   |
| Cleanouts shall be the same size as the service lateral in which they are installed.  |  | SHEET TITLE   |
| 42. Installation:   |  |   |
| plastic pipe association's "recommended practice for the installation of PVC sewer  |  | CONSTRUCTION  |
| pipe."<br>42.2. DIP shall be installed in accordance with ANSI/AWWA C-600-xx latest revision  |  | SPECIFICATIONS  |
| 42.3. Pipe to manhole connection to be Fernco neoprene boot couplings with stainless  |  |   |
| steel accessories or approved equal.<br>42.4. Manholes shall be set plumb to line and grade on firm subgrade providing uniform  |  |   |
| bearing under the base.   |  |   |
| <ul><li>42.0. An openings and joints snall be sealed watertight.</li><li>42.6. Two coats of Koppers 300-m, first red, second one black, shall be applied to the</li></ul>   |  |   |
| inside of all manholes and shall be applied in accordance with the manufacturer's specifications (16 mils per coat). Coating as required by utility owner or engineer shall   |  | NUMBER GI-002   |
| be applied to the outside of the manhole. The interior coats shall be applied after sewer   |  | PROJECT 11074 01  |

TATUS:

NUMBER

## **EROSION CONTROL:**

- 1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN FLORIDA (HEREAFTER REFERRED TO AS FL GUIDELINES).
- 2. MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION CYCLE. AFTER EACH RAINFALL, A VISUAL INSPECTION SHALL BE MADE OF ALL INSTALLED EROSION CONTROL MEASURES AND REPAIRS SHALL BE CONDUCTED TO ENSURE THEIR CONTINUING FUNCTION AS DESIGNED.
- 3. CATCH BASIN, INLETS, STORM SEWER MANHOLES STRUCTURES, ETC. SHALL BE PROTECTED DURING CONSTRUCTION OPERATIONS FROM SEDIMENT RUNOFF AND DEBRIS BY PLACING A FILTER FABRIC MATERIAL IN THE FRAME AND GRATE/MANHOLE COVER. PREVENTIVE METHODS MUST BE UTILIZED AROUND THESE STRUCTURES (DURING CONSTRUCTION OPERATIONS) BY GRADING TO DRAIN AWAY FROM STRUCTURES AND ANY OTHER METHODS APPROVED BY THE AGENCY HAVING JURISDICTION OR DESIGN ENGINEER OF RECORD.
- 4. THE CONTRACTOR SHALL INSTALL A SOIL TRACKING PREVENTION DEVICE AS PER THE FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL. THE CONTRACTOR SHALL TAKE MEASURES TO INSURE THE CLEANUP OF SEDIMENTS THAT HAVE BEEN TRACKED BY VEHICLES OR HAVE BEEN TRANSPORTED BY WIND OR STORM WATER ABOUT THE SITE OR ONTO NEARBY ROADWAYS. STABILIZED CONSTRUCTION ENTRANCES AND CONSTRUCTION ROADS, IF APPROPRIATE, SHALL BE IMPLEMENTED IN ORDER TO REDUCE OFFSITE TRACKING.
- 5. ALL AREAS OF DISTURBANCE THAT ARE NOT WITHIN BUILDING OR PAVEMENT LIMITS SHALL BE SODDED, REFER TO LANDSCAPE PLANS FOR SOD SPECIFICATION AND REQUIREMENTS.
- 6. REMOVE ALL EROSION CONTROL IMPROVEMENTS AFTER ALL DISTURBED AREAS ARE STABILIZED WITH THE FINAL GROUND COVER.

### PAVING, GRADING, AND DRAINAGE:

1. ELEVATIONS SHOWN HEREIN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD)

### WATER AND SEWER:

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- CONTRACTOR SHALL PROTECT ALL EXISTING FIRE HYDRANTS DURING CONSTRUCTION ACTIVITIES.
   UNDERGROUND FIRE MAIN WORK SHALL BE PERFORMED BY A CONTRACTOR HOLDING A CLASS I, II, OR V LICENSE PER
- F.S. 633.102.3. WATER MAIN SEPARATION SHALL BE IN ACCORDANCE WITH DETAIL G-01.1 ON SHEET CU-501.

### PAVEMENT MARKING AND SIGNAGE NOTES:

- 1. ALL EXISTING TRAFFIC CONTROL SIGNAGE AND PAVEMENT MARKINGS IN CONFLICT WITH THE PROPOSED TRAFFIC CONTROL SIGNAGE AND PAVEMENT MARKINGS WILL BE REMOVED OR RELOCATED BY THE CONTRACTOR.
- 2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), CURRENT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION STANDARDS (CURRENT EDITION), AND THE CITY OF HOLLYWOOD'S ZONING AND LAND DEVELOPMENT REGULATIONS.
- 3. MARKINGS SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS, SECTION 711, DESIGN STANDARDS, INDEX 17346, AND THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION STANDARDS AND SPECIFICATIONS (CURRENT EDITION).
- 4. ALL ON-SITE MARKINGS SHALL BE PAINT EXCEPT 24" SOLID WHITE STOP BAR AND DOUBLE YELLOW CENTERLINE MARKINGS AT DRIVEWAY ENTRANCES, WHICH SHALL BE THERMOPLASTIC OR AS INDICATED ON PLANS.
- 5. VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF SIGN POSTS.
   6. ALL PAVEMENT MARKINGS AND SIGNING DAMAGED DURING CONSTRUCTION, SHALL BE RESTORED TO BROWARD COUNTY
- TRAFFIC ENGINEERING DIVISION STANDARDS (CURRENT EDITION). 7. THE CONTRACTOR SHALL PROVIDE A COPY OF THEIR BROWARD COUNTY CERTIFICATE OF COMPETENCY PRIOR TO SUBMITTING
- FINAL INSPECTION REQUEST TO BROWARD COUNTY TRAFFIC ENGINEERING DIVISION.
  8. ALL SIGNS TO FOLLOW FDOT INDEX 17302 CASE V (LOCATION IN BUSINESS OR RESIDENTIAL AREAS) AND INDEX 11860 MIN. INSTALLATION REQUIREMENTS.
- ALL FDC SIGNAGE SHALL BE INSTALLED PURSUANT TO CITY STANDARDS AND SHALL HAVE RED LETTERING, NOT LESS THAN 3 INCHES IN HEIGHT, ON WHITE BACKGROUND. EACH SIGN SHALL BE 18 INCHES WIDE BY 24 INCHES IN HEIGHT, AND SHALL BE CONSISTENT WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION).
- 10.ALL FIRE HYDRANTS REQUIRE BLUE REFLECTORS IN THE ROADWAY TO INDICATE FIRE HYDRANT LOCATIONS. 11.FIRE DEPARTMENT CONNECTION PER CITY REQUIREMENTS, REFER TO PLUMBING PLAN. INSTALL "FIRE DEPARTMENT

CONNECTION, NO PARKING" SIGN TO BE FDOT AND CITY COMPLIANT AS REQUIRED. 12.STOP BARS SHALL BE A MINIMUM OF 4 FEET BEHIND THE CROSSWALK. 14.ALL REGULATORY AND WARNING SIGNS SHALL BE MADE WITH TYPE XI SHEETING MATERIAL.

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|   |   | 201 East Atlantia Rivel Domnana   |
|---|---|---|
|   |   | 301 East Atlantic Bivd. Pompano<br>Beach, FL 33060  |
| СВ                                      | PROPOSED DRAINAGE MANHOLE (MH)  | Florida Certificate of Authorization: 7928  |
|   | PROPOSED CURB INLET (CI)  | REVISIONS   |
|   | PROPOSED EXELL TRATION TRENCH   | NO. DESCRIPTION DATE  |
| 9.09                                    |   |   |
| MEG                                     | MATCH EXISTING GRADE (MEG)  |   |
| 9.71<br>9.21                            | PROPOSED TOP OF CURB ELEVATION (NAVD)<br>PROPOSED PAVEMENT ELEVATION (NAVD) |   |
|   | EXISTING UTILITY EASEMENT   |   |
|   | PROPERTY LINE   |   |
| /////////////////////////////////////// | DEMOLITION LINE   |   |
|   | FLOW LINE   |   |
|   | PROPOSED ASPHALT PAVEMENT   | PRELIMINARY PLAN<br>NOT FOR CONSTRUCTION<br>THESE PLANS ARE NOT FULLY PERMITTE<br>AND ARE SUBJECT TO REVISIONS MADE |
|   | PROPOSED CONCRETE   | DURING THE PERMITTING PROCESS.<br>RESPONSIBILITY FOR THE USE OF THES<br>PLANS PRIOR TO OBTAINING PERMITS FR         |
|   | PROPOSED PAVERS<br>(REFER TO HARDSCAPE PLANS BY OTHERS)                     | THE PROJECT WILL FALL SOLELY UPON THE USER.   |
|   | PAVEMENT RESTORATION  | DESIGNED BY: N<br>DRAWN BY: G<br>CHECKED BY: ,  |
|   | DETECTABLE WARNING HATCH  | BID-CONTRACT:   |
| 0                                       | PROPOSED SANITARY SEWER LATERAL<br>W/ CLEAN OUT TO GRADE (C.O.T.G.)         | No. 33256<br>This item has been<br>digitally signed and<br>sealed by James A<br>Thiele, P.E. on<br>05/14/2021       |
|   | DOMESTIC WATER METER  | Printed copies of thi<br>document are not   |
|   | DOUBLE DETECTOR CHECK VALVE PROPOSED FIRE DEPARTMENT CONNECTION             | STATE OF Considered signed<br>and sealed and the<br>signature must be<br>verified on any                            |
|   | (SEE PLUMBING PLANS)  |   |
| - <b>—</b> -<br>G                       | PROPOSED FIRE HYDRANT ASSEMBLY PROPOSED GAS LINE                            | FLORIDA REG. NO. 33256<br>(FOR THE FIRM)  |
| G <sub>x</sub>                          | EXISTING GAS LINE   | CLIENT  |
|   |   |   |
| SS <sub>x</sub>                         | EXISTING SANITARY SEWER   |   |
| OHW                                     | EXISTING OVERHEAD LINE  |   |
|   | EXISTING FIRE HYDRANT   |   |
|   | EXISTING GATE VALVE   |   |
| s s                                     | EXISTING SANITARY SEWER MANHOLE   | PROJECT   |
|   | EXISTING DRAINAGE STRUCTURES  |   |
| -\$                                     | EXISTING LIGHT POLES  |   |
| +6.2                                    | EXISTING SPOT ELEVATION   | PINNACLE 441  |
| $\sim$                                  | FLOW ARROW  |   |
|   | DECORATIVE FENCE<br>(REFER TO ARCHITECTS PLANS)                             |   |
| — o —— o —— o ——                        | DECORATIVE FENCE<br>(REFER TO ARCHITECTS PLANS)                             | SHEET TITLE   |
|   | PROPOSED EASEMENT   |   |
| $\langle 1 \rangle$                     | UTILITY CROSSING  | SPECIFIC NOTES  |
| <b>₽</b>                                | PROPOSED SAMPLE POINT   | AND LEGEND  |
|   |   |   |
|   |   | SHEET GI-003  |
|   |   | PROJECT 11074.01  |



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# GENERAL ADA SLOPE NOTES:

THE CONTRACTOR SHALL ENSURE THAT ALL ADA CRITERIA IS MET FOR THE CONSTRUCTION OF THE SITE IMPROVEMENTS INCLUDING BUT NOT LIMITED TO SIDEWALKS, RAMPS AND ADA PARKING STALLS).

**GRAPHIC SCALE** 

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NOTE: PRINTED DRAWING SIZE

MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING

BAR SCALE ABOVE.

SCALE: 1" = 30 '

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- ALL ADA PARKING STALLS SHALL NOT EXCEED 2% IN ANY DIRECTION.
- SIDEWALKS SHALL NOT EXCEED 5% IN THE LONGITUDINAL DIRECTION AND CROSS-SECTIONAL SLOPES SHALL NEVER EXCEED 2%, UNLESS CLEARLY IDENTIFIED ON PLANS.
- FOR ANY REASON THE CONTRACTOR FINDS ANY GRADING DISCREPANCIES THAT WOULD RESULT IN NOT BEING ABLE TO MEET ADA CRITERIA; IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ADVISE THE ENGINEER AT ONCE AND PROVIDE ADEQUATE TIME TO DETERMINE PROPER COURSE OF ACTION. IF FOR ANY REASON IT IS DEEMED NECESSARY FOR AS-BUILT INFORMATION TO BE MADE AVAILABLE TO THE ENGINEER IN ORDER TO MAKE THE NECESSARY DECISIONS AND/OR PROVIDE DIRECTION, THIS INFORMATION SHALL BE PROVIDED BY THE CONTRACTOR.

PROPOSED DRAINAGE MANHOLE (MH)

PROPOSED CATCH BASIN (CB)

MATCH EXISTING GRADE (MEG)

EXISTING WATER MAIN

EXISTING STROM DRAIN

EXISTING FIRE HYDRANT

EXISTING SPOT ELEVATION

EXISTING UTILITY EASEMENT

PROPERTY LINE

EXISTING GAS LINE

EXISTING SANITARY SEWER MANHOLE

EXISTING DRAINAGE STRUCTURES

AREAS WHICH HAVE

F.F.E. OF 12.20' NAVD

AREAS WHICH HAVE

F.F.E. OF 11.20' NAVD

5

EXISTING SANITARY SEWER

PROPOSED EFILTRATION TRENCH

PROPOSED GRADE ELEVATION (NAVD)

PROPOSED TOP OF CURVE ELEVATION (NAVD)

PROPOSED PAVEMENT ELEVATION (NAVD)

# LEGEND



——— GAS ——— GAS ———

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# LEGEND:





MILL AND RESURFACE EXISTING PAVEMENT WITH FDOT SP-9.5 (FINE MIX) ASPHALT AS REQUIRED TO MATCH EXISTING GRADE

FULL PAVEMENT SECTION (REFER TO SHEET CP-503 FOR OFF-SITE PAVEMENT SECTION DETAIL)

### ELEVATIONS SHOWN HEREON ARE IN FEET AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988). BASED ON THE SURVEY PREPARED BY KEITH & ASSOCIATES, INC TO CONVERT NAVD 1988 ELEVATIONS TO NGVD 1929 FOR THE PROPERTY, 1.585 MUST BE ADDED TO THE NAVD 1988 ELEVATION.

SHEET

NUMBER

**PROJEC1** 

NUMBER



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**CP-101** 

11074.01



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### **GRAPHIC SCALE** 20 10 SCALE: 1" = 10 ' -----NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

GENERAL ADA SLOPE NOTES:

- THE CONTRACTOR SHALL ENSURE THAT ALL ADA CRITERIA IS MET FOR THE CONSTRUCTION OF THE SITE IMPROVEMENTS INCLUDING BUT NOT LIMITED TO SIDEWALKS, RAMPS AND ADA PARKING STALLS).
- ALL ADA PARKING STALLS SHALL NOT EXCEED 2% IN ANY DIRECTION.
- SIDEWALKS SHALL NOT EXCEED 5% IN THE LONGITUDINAL DIRECTION AND CROSS-SECTIONAL SLOPES SHALL NEVER EXCEED 2%, UNLESS CLEARLY IDENTIFIED ON PLANS.
- FOR ANY REASON THE CONTRACTOR FINDS ANY GRADING DISCREPANCIES THAT WOULD RESULT IN NOT BEING ABLE TO MEET ADA CRITERIA; IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ADVISE THE ENGINEER AT ONCE AND PROVIDE ADEQUATE TIME TO DETERMINE PROPER COURSE OF ACTION. IF FOR ANY REASON IT IS DEEMED NECESSARY FOR AS-BUILT INFORMATION TO BE MADE AVAILABLE TO THE ENGINEER IN ORDER TO MAKE THE NECESSARY DECISIONS AND/OR PROVIDE DIRECTION, THIS INFORMATION SHALL BE PROVIDED BY THE CONTRACTOR.

PROPOSED DRAINAGE MANHOLE (MH)

PROPOSED CATCH BASIN (CB)

MATCH EXISTING GRADE (MEG)

EXISTING WATER MAIN

EXISTING STROM DRAIN

EXISTING OVERHEAD LINE

EXISTING FIRE HYDRANT

EXISTING SPOT ELEVATION

EXISTING UTILITY EASEMENT

PROPERTY LINE

EXISTING GAS LINE

EXISTING SANITARY SEWER MANHOLE

EXISTING DRAINAGE STRUCTURES

EXISTING SANITARY SEWER

PROPOSED EFILTRATION TRENCH

PROPOSED GRADE ELEVATION (NAVD)

PROPOSED TOP OF CURVE ELEVATION (NAVD)

PROPOSED PAVEMENT ELEVATION (NAVD)

# SYMBOL LEGEND



# LEGEND:



MILL AND RESURFACE EXISTING PAVEMENT WITH FDOT SP-9.5 (FINE MIX) ASPHALT AS REQUIRED TO MATCH EXISTING GRADE

> FULL PAVEMENT SECTION (REFER TO SHEET CP-503 FOR OFF-SITE PAVEMENT SECTION DETAIL)

> > ELEVATIONS SHOWN HEREON ARE IN FEET AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988). BASED ON THE SURVEY PREPARED BY KEITH & ASSOCIATES, INC TO CONVERT NAVD 1988 ELEVATIONS TO NGVD 1929 FOR THE PROPERTY, 1.585 MUST BE ADDED TO THE NAVD 1988 ELEVATION.

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TYPICAL SECTION D N.T.S.

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GENERAL ADA SLOPE NOTES:

- THE CONTRACTOR SHALL ENSURE THAT ALL ADA CRITERIA IS MET FOR THE CONSTRUCTION OF THE SITE IMPROVEMENTS INCLUDING BUT NOT LIMITED TO SIDEWALKS, RAMPS AND ADA PARKING STALLS).
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- SIDEWALKS SHALL NOT EXCEED 5% IN THE LONGITUDINAL DIRECTION AND CROSS-SECTIONAL SLOPES SHALL NEVER EXCEED 2%, UNLESS CLEARLY IDENTIFIED ON PLANS.
- FOR ANY REASON THE CONTRACTOR FINDS ANY GRADING DISCREPANCIES THAT WOULD RESULT IN NOT BEING ABLE TO MEET ADA CRITERIA; IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ADVISE THE ENGINEER AT ONCE AND PROVIDE ADEQUATE TIME TO DETERMINE PROPER COURSE OF ACTION. IF FOR ANY REASON IT IS DEEMED NECESSARY FOR AS-BUILT INFORMATION TO BE MADE AVAILABLE TO THE ENGINEER IN ORDER TO MAKE THE NECESSARY DECISIONS AND/OR PROVIDE DIRECTION, THIS INFORMATION SHALL BE PROVIDED BY THE CONTRACTOR.

|  | KEI  | TH                                     |
|--|--|--|
| 301 Ea:                                  | st Atlantic Blvd.  | Pompano                                |
|  | Beach, FL 3306<br>PH: (954) 788-34   | 0                                      |
| Florida                                  | Certificate of Authoriz  | ation: 7928                            |
| LICE                                     | REVISIONS  | er: 6860                               |
| NO. DI                                   | ESCRIPTION   | DATE                                   |
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| DURING                                   | 3 THE PERMITTING   | PROCESS.<br>SE OF THESE                |
| PLANS PRIC                               | OR TO OBTAINING P<br>CIES HAVING JURISI  | ERMITS FROM                            |
| THE PROJE                                | CT WILL FALL SOLE<br>USER.   | ELY UPON THE                           |
| ISSUE DA                                 | TE:  | 03/17/21                               |
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| CHECKE                                   | ) BY:  | JT                                     |
| BID-CONT                                 | RACT:  |  |
|  |  |  |
| 11111AM                                  | ESA THIEL TH   | is item has been<br>gitally signed and |
|  | No. 33256  | iele, P.E. on<br>5/14/2021             |
|  |  | inted copies of this<br>cument are not |
| P. P |  | nsidered signed<br>d sealed and the    |
|  | ONAL FUTURE ele  | rified on any<br>ectronic copies.      |
| J  | AMES A. THIELE   | , P.E.                                 |
| FLC                                      | RIDA REG. NO.<br>(FOR THE FIRM   | 33256<br>N)                            |
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| PAVING, GRADING, |
|------------------|
| AND DRAINAGE     |
| SECTIONS         |
|                  |

|                   |          | TA   |
|-------------------|----------|------|
| SHEET<br>NUMBER   | CP-301   | ATUS |
| PROJECT<br>NUMBER | 11074.01 | ST/  |

NOTE

ELEVATIONS SHOWN HEREON ARE IN FEET AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988). BASED ON THE SURVEY PREPARED BY KEITH & ASSOCIATES, INC TO CONVERT NAVD 1988 ELEVATIONS TO NGVD 1929 FOR THE PROPERTY, 1.585 MUST BE ADDED TO THE NAVD 1988 ELEVATION.

|   | 1  | 2  |
|---|--|--|
|   |  | 1st ASPHALT LIFT 3/4"<br>2nd ASPHALT LIFT 3/4"<br>6"   |
|   |  |  |
| D | 8" L   | IMEROCK BASE —<br>12" STABILIZED —<br>SUBGRADE   |
|   | ASPHALTI<br>FIRST LIF<br>SECOND (<br>ASPHALT<br>OF FDOT S<br>SECOND I<br>LANDSCA | <u>C CONCRETE VEHICULAR:</u><br>[ - 3/4" FDOT - S-III OR APPROVED EQUAL<br>FINAL) LIFT - 3/4" FDOT - S-III OR APPROVED EQUAL<br>SURFACE COURSE SHALL CONFORM TO THE REQUIREMENTS<br>STANDARDS SPECIFICATIONS SECTION 331.<br>LIFT OF ASPHALT SHALL NOT BE PLACED UNTIL FINAL<br>PE/HARDSCAPE HAS BEEN INSTALLED. |
|   | PRIME AN<br>LIMEROCH<br>OF FDOT<br>APPLICAT<br>PRIME CO<br>TACK COA              | <u>D TACK COAT:</u><br>( BASE COURSE SHALL CONFORM TO THE REQUIREMENTS<br>STANDARDS SPECIFICATIONS SECTION 300.<br>ION RATES:<br>AT - 0.10 GALLONS PER SQ. YD.<br>AT - 0.08 GALLONS PER SQ. YD.  |
| С | BASE:<br>8" LIMERO<br>(AASHTO<br>REQUIREN<br>SUBGRAD                             | DCK BASE COMPACTED TO 98% OF MAXIMUM DENSITY<br>T-180), LIMEROCK BASE TO CONFORM WITH THE<br>MENTS OF FDOT SPECIFICATIONS SECTIONS 200 AND 911.<br>DE:   |
|   | 12" STABIL<br>DENSITY (  | <br>   |
|   | 1  | ASPHALT PAVEMENT DETAIL  |
|   |  |  |
| B |  | 12"<br>7 1/2"<br>COMPACTED SUBGRADE  |
|   | CONCRET<br>4" CONCI<br>COMPRES   | <u>E PAVEMENT::</u><br>RETE PAVEMENT SHALL BE A MINIMUM 2,500 PSI 28 DAY<br>SIVE STRENGTH CONCRETE.<br>-   |
|   | SUBGRAD<br>SUBGRAD<br>MINIMUM I<br><u>NOTE</u> :<br>THICKENE                     | E COMPACTED TO 98% OF MAXIMUM DENSITY (AASHTO T-180);<br>_BR = 40.   |
|   | AND NOT  | WITHIN DRIVES.   |
|   |  |  |
| A |  |  |
|   |  |  |
|   | 4  | THICKENED EDGE SIDEWALK<br>DETAIL  |
|   |  | SCALE: NOT TO SCALE  |
| l | 1  | 2  |



|  |  | -  |
|--|--|--|
| 301 Eas<br>Florida (<br>Licer  | <b>KEITH</b><br><b>St Atlantic Blvd. Pompano</b><br><b>Beach, FL 33060</b><br>PH: (954) 788-3400<br>Certificate of Authorization: 7928<br>Sed Business Number: 6860<br>REVISIONS   | y, September 23, 2020 9:40:08 AM                   |
|  |  | Vednesda   |
|  |  | rojas On V   |
| PLAN VIEW  |  | lotted by: g                                       |
| - 3'<br>TRANS.   |  | -<br>-<br>-  |
|  |  | -  |
| RAIGHT END PRE NOT FO THESE PL/ AND ARE DURING RESPONS PLANS PRIC ALL AGENC THE PROJE  | ELIMINARY PLAN<br>OR CONSTRUCTION<br>ANS ARE NOT FULLY PERMITTED<br>SUBJECT TO REVISIONS MADE<br>THE PERMITTING PROCESS.<br>IBILITY FOR THE USE OF THESE<br>OR TO OBTAINING PERMITS FROM<br>CIES HAVING JURISDICTION OVER<br>CT WILL FALL SOLELY UPON THE<br>USER. |  |
| ISSUE DA<br>DESIGNE  | TE: 03/17/21<br>D BY: MC   |  |
| DRAWN B  | GR GR  |  |
|  |  | -  |
|  | This item has been<br>digitally signed and<br>sealed by James A<br>Thiele, P.E. on<br>05/14/2021<br>Printed copies of this<br>document are not<br>considered signed<br>and sealed and the<br>signature must be<br>verified on any<br>electronic copies.            | roup\Engineering\Cadd\11074.01-CP-5XX.dwg          |
| CLIENT   | PINNACLE<br>sommitted the lexal cultured   | 4.01 - Pinnacle 441 Hollywood - Pinnacle Housing ( |
| PROJECT  | Г  | N:\11\11074  |
| NOTE 1:<br>IF THERE IS AN EXISTING CROSSWALK<br>AT THE INTERBECTION, THE AGA RAMP<br>MUST BE LOCATED WITHIN THE CROSSWALK.<br>P              | INNACLE 441  | Drawing name: N                                    |
| TABLE OF SIDEWALK       JOINTS       TYPE     LOCATION       'A'     P.C. & P.T. OF CURVES;       JUNCTION OF EXISTING<br>AND NEW SIDEWALKS; |  |  |
| B' 5'-0" CENTER TO   | TLE  |  |
| VPE_'B'     CENTER ON SIDEWALKS.     PAVIN       NTS     DRA   | G, GRADING, AND<br>INAGE DETAILS   |  |
| A DESIGNED BY SCALE N.T.S. APPROVED BY   |  | AC   |
| CHECKED BY ACCT. No. SHEET No. CATE 03/28/01 CADD.OWG No. SHEET No. SHEET S  | <u>CP_501</u>  | US: T  |
|  |  | IF   |
| NUMBER<br>PROJECT  | 1107/ 01   | <b> </b> ₹   |





| 3   | 01 Eas   | st Atlantic Blvd.<br>Beach, FL 3306<br>PH: (954) 788-34   | <b>TH</b><br>Pompano  | , 2020 9:40:08 AM                            |
|---|--|---|---|--|
|   | Florida (  | Certificate of Authoriz   | ation: 7928   | nber 23,                                     |
|   | Licei  | REVISIONS   | er: 6860  | septem                                       |
| NO.   | D  | ESCRIPTION  | DATE  | sday, S                                      |
|   |  |   |   | ednes  |
|   |  |   |   | N NO   |
|   |  |   |   | Plotted by: grojas                           |
|   |  |   |   |  |
|   |  |   |   |  |
|   |  |   |   |  |
| NC<br>THE<br>AN<br>RE<br>PLAI<br>ALL<br>THE | PRE<br>DT F(<br>SE PL/<br>ND ARE<br>DURING<br>SPONS<br>NS PRIG<br>AGENC<br>PROJE | ELIMINARY<br>OR CONSTR<br>ANS ARE NOT FULL<br>SUBJECT TO REVIS<br>THE PERMITTING<br>IBILITY FOR THE US<br>OR TO OBTAINING F<br>CIES HAVING JURISI<br>ISED | PLAN<br>RUCTION<br>Y PERMITTED<br>SIONS MADE<br>PROCESS.<br>SE OF THESE<br>PERMITS FROM<br>DICTION OVER<br>ELY UPON THE   |  |
| ISSI  | JE DA  |   | 03/17/21  |  |
| DES   | GNE  | D BY:   | MC  |  |
| DR/   | AWN E  | BY:   | GR  | -  |
|   |  |   | JT  |  |
| ישום  |  |   |   |  |
|   | JA<br>FLC  | TATE OF<br>COR IDA<br>MES A. THIELE<br>ORIDA REG. NO.   | his item has been<br>gitally signed and<br>aled by James A<br>hiele, P.E. on<br>5/14/2021<br>inted copies of this<br>occument are not<br>insidered signed<br>d sealed and the<br>grature must be<br>rified on any<br>ectronic copies. | up\Engineering\Cadd\11074.01-CP-5XX.dwg      |
| CLI   | ENT  |   | ,   | sing Gro                                     |
|   |  |   |   | .01 - Pinnacle 441 Hollywood - Pinnacle Hous |
| PR  | OJEC   | Г   |   | 11/11074                                     |
|   | Ρ  | INNACLE   | 441   | Drawing name: N:                             |
| SHI   | EET TI   | ITLE  |   |  |
| PÆ  | AVIN<br>DRA  | IG, GRADIN  | IG, AND<br>TAILS  | TAC  |
| SHE   | ET   |   | ია  |  |
| NUN   |  | С <b>Г-</b> Э   | 00  | ATI  |
|   | MBER   | 1107  | 4.01  | רא <mark>ן</mark>                            |



|   | GENERAL NOTES:   |   |   | GENERAL                                  |
|---|--|---|---|--|
|   | 1. THE INFORMATION PROVIDED IN THESE DRAWING<br>THE NATURE AND EXTENT OF CONDITIONS WHICH<br>WORK. THE CONTRACTORS ARE DIRECTED, PRIOR T<br>THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN | S IS SOLELY TO ASSIST THE CONTRACTO<br>WILL BE ENCOUNTERED DURING THE C<br>O BIDDING, TO CONDUCT WHATEVER I<br>CONCLUSION REGARDING THE ACTUAL        | OR IN ASSESSING<br>COURSE OF THE<br>NVESTIGATIONS<br>. CONDITIONS | 12. CITY OF H<br>STAGING                 |
|   | THAT WILL BE ENCOUNTERED, AND UPON WHICH E   | SIDS WILL BE BASED.   | SDECIFICATIONS  | 13. CONTRAC<br>SOIL IS AI                |
|   | 2. ALL CONSTRUCTION AND MATERIALS SHALL CONFO<br>OF THE CITY OF HOLLYWOOD DEPARTMENT OF PU<br>SERVICES DIVISION (ECSD), AND ALL OTHER LOCAL,   | SEAL OF A STANDARDS AND S<br>BLIC UTILITIES, ENGINEERING AND CON<br>STATE AND NATIONAL CODES, WHERE   | SPECIFICATIONS<br>STRUCTION<br>APPLICABLE.                        | 14. CONTRAC                              |
| П | 3. LOCATIONS, ELEVATIONS, SIZES, MATERIALS, ALIGN  | MENTS, AND DIMENSIONS OF EXISTING   | G FACILITIES,   | 15. CONTRAC<br>REQUIRE                   |
| U | TIME OF THE PREPARATION OF THESE PLANS; AND<br>THERE MAY HAVE BEEN OTHER IMPROVEMENTS, U<br>CONSTRUCTED AFTER THE PREPARATION OF THESE   | DRDING TO THE BEST INFORMATION AV<br>DO NOT PURPORT TO BE ABSOLUTELY<br>JTILITIES, ETC., WITHIN THE PROJECT AF<br>E PLANS AND/OR THE ORIGINAL SITE SU | AILABLE AT THE<br>CORRECT. ALSO,<br>REA WHICH WERE<br>IRVEY THE   | 16. THE CITY<br>CONSTRU<br>SUNDAY.       |
|   | CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEV<br>WORK PRIOR TO CONSTRUCTION, AND NOTIFY THE  | ATIONS, AND OTHER FEATURES AFFECT<br>ENGINEER IMMEDIATELY WHEN CONF   | ING HIS/HER<br>LICT BETWEEN                                       | 17. SUITABLE                             |
|   | DRAWINGS AND ACTUAL CONDITIONS ARE DISCOV<br>ANY FACILITIES SHOWN OR NOT SHOWN ON THE P<br>AVOID CONFLICT WITH EXISTING UTILITIES (NO AD   | ERED. THE ENGINEER ASSUMES NO RES<br>LANS. THE CONTRACTOR SHALL WORK<br>DITIONAL COST SHALL BE PAID FOR THE   | SPONSIBILITY FOR<br>AS NEEDED TO<br>S WORK).                      | 18. ALL ROAD<br>NOTED O                  |
|   | APPROVED BY THE RESPECTIVE UTILITY OWNER.  | TUITIES TO ARRANGE FOR THE RELOCA   |   | 19. THE CON<br>SIDEWAL                   |
|   | 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY   | AS NECESSARY TO COMPLETE THE WOR  | EXISTING  | 20. THE CON                              |
|   | UTILITIES ON THIS PROJECT, AND TO ENSURE THAT<br>DURING CONSTRUCTION UNLESS APPROVED OTHE  | EXISTING UTILITIES ARE MAINTAINED I<br>RWISE BY THE UTILITY OWNER.  | N SERVICE   | EQUIPME<br>FORM MU<br>CONTRAC            |
|   | 6. CONTRACTOR SHALL ADJUST ALL EXISTING UTILITY<br>HAND-HOLES, PULL-BOXES, STORMWATER INLETS,<br>BE OVERLAID WITH ASPHALT PAVEMENT.  | CASTINGS INCLUDING VALVE BOXES, M<br>AND SIMILAR STRUCTURES IN CONSTRU  | IANHOLES,<br>JCTION AREA TO                                       | 21. THE CON<br>IRRIGATIO<br>REPLACE      |
|   | 7. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL AP<br>PERMITS PRIOR TO THE START OF CONSTRUCTION.  |   | NMENTAL   | PERTINEN<br>THE CITY.<br>22. MAIL BOX    |
|   | 9. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION   | N AND INSTALLATION OF THE PROPOSI   | ED  | PROPOSE                                  |
| C | IMPROVEMENTS, SHOP DRAWINGS SHALL BE SUBM<br>DOCUMENT'S REQUIREMENTS, FOR APPROVAL. IN<br>OBTAIN ANY OTHER AGENCY SHOP DRAWING APP   | IITTED TO ECSD IN ACCORDANCE WITH<br>ADDITION, IT IS THE CONTRACTOR'S RE<br>ROVAL, IF REQUIRED.   | THE CONTRACT<br>SPONSIBILITY TO                                   | 23. CONTRAC<br>CITY OF H<br>24. NO TREES |
| 0 | 20. THE CONTRACTOR SHALL NOTIFY ECSD IMMEDIATE<br>CONSTRUCTION OF ANY IMPROVEMENTS SHOWN<br>CONTRACTOR SHALL BE CONSIDERED INCIDENTAL  | LY FOR ANY CONFLICT ARISING DURING<br>ON THESE DRAWINGS. THIS WORK BY 1<br>TO THE CONTRACT AND NO ADDITIONA   | G<br>THE<br>NL  | ENGINEEI<br>25. THE CON                  |
|   | COMPENSATION SHALL BE ALLOWED.<br>11. ELEVATIONS SHOWN ARE IN FEET AND ARE REFER   | ENCED TO THE NORTH AMERICAN VERT  | ICAL DATUM OF   | 26. IT IS THE                            |
|   | 1988 (NAVD 88).  |   |   |  |
|   | ISSUED: 03/01/1994 DEPARTMENT OF PU  | IBLIC UTILITIES STANDARD DETAIL   | REVISED: 06/08/2014   | ISSU<br>DRA                              |
|   | DRAWN: EAM GE  | NERAL NOTES   | DRAWING NO.   | APPF                                     |
|   | Pog xts  |   |   |  |
|   | GENERAL NOTES (CONTINUED):   |   |   |  |
|   | 40. THE CONTRACTOR SHALL GIVE AT LEAST 48 HOUR<br>LOCATION OF EXISTING UNDERGROUND UTILITIES<br>NOTIFICATION CENTER AT 811 OR 1-800-432-4770   | S NOTICE TO UTILITY COMPANIES TO PR<br>IN ADVANCE OF CONSTRUCTION. CONT<br>(SUNSHINE ONE-CALL OF FLORIDA).  | ROVIDE FOR THE<br>TACT UTILITIES                                  |  |
|   | Always call 811 two full busine  | ss days before you dig  |   |  |
|   |  |   |   |  |
| В | 41. WHEN PVC PIPE IS USED, A METALLIZED MARKE<br>ABOVE THE PIPE. THE MARKER TAPE SHOULD B<br>BURIED PIPE BELOW. THE TAPE SHALL BE MAGN<br>INC. OR APPROVED EQUAL.                      | R TAPE SHALL BE INSTALLED CONTINU<br>E IMPRINTED WITH A WARNING THAT<br>A TEC, AS MANUFACTURED BY THOR  | Jously 18"<br>"There Is<br>Enterprises                            | R/W -                                    |
|   | 42. ALL CONNECTIONS TO EXISTING MAINS SHALL E<br>CONNECTIONS SHALL BE METERED, AND THE CO<br>BORNE BY THE CONTRACTOR.  | E THE RESPONSIBILITY OF THE CONTR<br>DST OF WATER AND TEMPORARY MET   | RACTOR. WATER<br>TER SHALL BE                                     |  |
|   | 43. A COMPLETE AS-BUILT SURVEY SHALL BE ACCUP  | ATELY RECORDED OF THE UTILITY SYS   | STEM DURING   |  |
|   | REGISTERED SURVEY OR PRIOR TO FINAL INSPEC<br>SIGNED AND SEALED AS-BUILTS SHALL BE COVE<br>INCLUDE:  | TION AND ACCEPTANCE OF PROJECT.<br>RED IN OVERALL BID. THE AS-BUILT SU  | THE COST OF<br>JRVEY SHALL  |  |
|   | a. PLAN VIEW SHOWING THE HORIZONTAL<br>FITTING, BEND AND HORIZONTAL PIPE D<br>TO A SURVEY BASELINE OR RIGHT-OF-W/  | LOCATIONS OF EACH MANHOLE, INLE<br>EFLECTIONS WITH COORDINATES AND<br>AY CENTERLINE.  | T, VALVE,<br>D IN REFERENCE                                       |  |
|   | b. THE PLAN VIEW SHALL ALSO SHOW SPOT<br>MAIN AND FORCE MAIN) OR PIPE INVERT   | ELEVATIONS OF THE TOP OF THE MA<br>S (GRAVITY MAINS) AT INTERVALS NO  | NIN (WATER<br>DT TO EXCEED  | ELE                                      |
|   | 100 FEET AS MEASURED ALONG MAIN. T<br>ELEVATIONS AT EACH MANHOLE, INLET,<br>DEFLECTION.  | HE PLAN VIEW SHALL ALSO INCLUDE S<br>VALVE, FITTING, BEND AND VERTICAL  | SPOT<br>PIPE  | GRAVIT                                   |
|   | c. THE PLAN VIEW SHALL ALSO SHOW THE<br>UTILITIES IMMEDIATELY ADJACENT OR PA   | HORIZONTAL SEPARATION FROM UNE<br>ARALLEL TO THE NEW MAIN.  | DERGROUND   |  |
|   | d. PROFILE VIEW WITH SPOT ELEVATIONS O<br>MAIN) OR PIPE INVERT (GRAVITY MAIN)<br>DIRECTLY ABOVE THE MAIN AT INTERVAI<br>THE MAIN. THE PROFILE VIEW SHALL ALS                           | F THE TOP OF THE MAIN (WATER MA<br>AND OF THE FINISHED GRADE OR MAI<br>S NOT TO EXCEED 100 FEET AS MEAS<br>O INCLUDE SPOT ELEVATIONS AT EAC           | IN AND FORCE<br>NHOLE RIM<br>URED ALONG<br>CH MANHOLE,            |  |
| А | e. THE PROFILE VIEW SHALL SHOW ALL UNI<br>AND THE VERTICAL SEPARATION PROVID   | DERGROUND UTILITIES CROSSING THE<br>ED BETWEEN THAT UNDERGROUND U   | E NEW MAIN<br>JTILITY AND THE                                     |  |
|   | f. ALL CADD FILES MUST BE CREATED FOLL<br>AS-BUILT CAD DRAWING STANDARDS"  | OWING THE CITY OF HOLLYWOOD "SU   | JRVEY /   |  |
|   | ISSUED: 03/01/1994 DEPARTMENT OF PL  | IBLIC UTILITIES STANDARD DETAIL   | REVISED: 11/06/2017   | ISSU                                     |
|   | GE DRAWN: EAM  | NERAL NOTES   | DRAWING NO.   |  |
|   | APPROVED: XXX  | LONTINUED)  | I G-00.3  | APP                                      |
|   |  |   |   | PORATE                                   |

# RAL NOTES (CONTINUED):

OF HOLLYWOOD SHALL NOT PROVIDE STAGING / STORAGE AREA. CONTRACTOR SHALL SECURE GING / STORAGE AREA AS NECESSARY FOR CONSTRUCTION WORK.

TRACTOR SHALL HAUL AWAY EXCESSIVE STOCKPILE OF SOIL FOR DISPOSAL EVERY DAY. NO STOCKPILE IS ALLOWED TO BE LEFT ON THE CONSTRUCTION SITE OVER NIGHT.

TRACTOR SHALL CLEAN / SWEEP THE ROAD AT LEAST ONCE DAY OR AS REQUIRED BY THE ENGINEER. TRACTOR SHALL PROTECT CATCH BASINS WITHIN / ADJACENT TO THE CONSTRUCTION SITE AS JIRED BY NPDES REGULATIONS.

CITY OF HOLLYWOOD HAS A NOISE ORDINANCE (CHAPTER 100) WHICH PROHIBITS EXCAVATION AND STRUCTION BEFORE 8:00 A.M. AND AFTER 6:00 P.M., MONDAY THROUGH SATURDAY AND ALL DAY

ABLE EXCAVATED MATERIAL SHALL BE USED IN FILL AREAS. NO SEPARATE PAY ITEM FOR THIS WORK, UDE COST IN OTHER ITEMS.

ROAD CROSSINGS ARE OPEN CUT AS PER THE REQUIREMENTS OF THE ECSD UNLESS OTHERWISE ED ON THE DRAWINGS.

CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZING EARTH, DRIVEWAYS, PARKING LOTS, WALKS, ETC. TO SATISFY THE INSTALLATION OF THE PROPOSED IMPROVEMENTS WITH THE SAME OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY ECSD FIELD NEER.

CONTRACTOR SHALL NOT ENCROACH INTO PRIVATE PROPERTY WITH PERSONNEL, MATERIAL OR IPMENT. IN CASE WORK ON PRIVATE PROPERTY IS NEEDED, A CITY OF HOLLYWOOD "RIGHT OF ENTRY" A MUST BE SIGNED BY PROPERTY OWNER AND THE DIRECTOR OF PUBLIC UTILITIES. THE FRACTOR IS RESPONSIBLE TO MAINTAIN ACCESS AT ALL TIMES TO PRIVATE HOMES/BUSINESSES.

CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE, REMOVAL OR MODIFICATION, CAUSED TO ANY GATION SYSTEM (PRIVATE OR PUBLIC) ACCIDENTALLY OR PURPOSELY. THE CONTRACTOR SHALL ACE ANY DAMAGED, REMOVED OR MODIFIED IRRIGATION PIPES, SPRINKLER HEADS OR OTHER INENT APPURTENANCES TO MATCH OR EXCEED EXISTING CONDITIONS AT NO ADDITIONAL COST TO

BOXES, FENCES OR OTHER PRIVATE PROPERTY DAMAGED DURING THE CONSTRUCTION OF THE POSED IMPROVEMENTS SHALL BE REPLACED TO MATCH OR EXCEED EXISTING CONDITION.

TRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH FDOT STANDARDS AND OF HOLLYWOOD DEPARTMENT OF PUBLIC UTILITIES STANDARDS.

REES ARE TO BE REMOVED OR RELOCATED WITHOUT PRIOR APPROVAL FROM THE ECSD FIELD NEER.

CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NECESSARY TREE REMOVAL OR RELOCATION AITS FROM THE CITY OF HOLLYWOOD BUILDING DEPARTMENT FOR TREES LOCATED IN THE PUBLIC IT OF WAY.

THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES ING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE REGULATORY DARDS / REQUIREMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF ECSD.

| JED:  | 03/01/1994 | DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL | REVISED: 11/06/2017 |
|-------|------------|--|---------------------|
| WN:   | EAM        | GENERAL NOTES                                  | DRAWING NO.         |
| ROVED | : XXX      | (CONTINUED)                                    | G-00.1              |



# **GENERAL NOTES (CONTINUED):**

- 27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF AND MAKING THE REPAIRS TO EXISTING PAVEMENT, SIDEWALKS, PIPES, CONDUITS, CURBS, CABLES, ETC., WHETHER OR NOT SHOWN ON THE PLANS DAMAGED AS A RESULT OF THE CONTRACTORS OPERATIONS AND/OR THOSE OF HIS SUBCONTRACTORS, AND SHALL RESTORE THEM PROMPTLY AT NO ADDITIONAL EXPENSE TO THE OWNER. CONTRACTOR SHALL REPORT ANY DAMAGE TO SIDEWALK, DRIVEWAY, ETC., PRIOR TO BEGINNING WORK IN ANY AREA.
- 28. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT TO MATCH EXISTING CONDITIONS.
- 29. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS OF, EXPOSED OR OPENED AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES, WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE DIRECTED. ALL TRENCHES SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY FOR PEDESTRIAN / VEHICULAR TRAFFIC.
- 30. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF OFF THE PROPERTY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- 31. ALL DUCTILE IRON PRODUCTS SHALL BE DOMESTIC MADE HEAVY DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR 20,000 LB.
- 32. ALL GRASSED AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SODDED.
- 33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH SPECIFICATIONS OF THE LATEST REVISION OF FDOT DESIGN STANDARDS. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETTING OF ALL TRAFFIC CONTROL AND INFORMATION SIGNAGE REMOVED DURING THE CONSTRUCTION PERIOD.
- 34. EXCAVATED OR OTHER MATERIAL STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
- 35. TEMPORARY PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS CUT, OR THE CITY'S INSPECTOR WILL SHUT THE JOB DOWN.
- 36. CONTRACTOR MUST PROVIDE FLASHER ARROW SIGNAL FOR ANY LANE THAT IS CLOSED OR DIVERTED. 37. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24)
- HOURS IN ADVANCE OF TRAFFIC DETOUR IN ACCORDANCE WITH SECTION 336.07 OF FLORIDA STATUTES. 38. CONTRACTOR TO RESTORE PAVEMENT TO ORIGINAL CONDITION AS REQUIRED.
- 39. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DEWATERING PER SPECIFICATION SECTION 02140 DEWATERING.

| The second second | ISSUED: | 03/01/1994 | DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL | REVISED:  | 11/06/2017 |
|-------------------|---------|------------|--|-----------|------------|
| DIAMOND COM       | DRAWN:  | EAM        | GENERAL NOTES                                  | DRAWING I | NO.        |
| A DOMORATION OF   | APPROVE | D: XXX     | (CONTINUED)                                    | G-0       | 0.2        |

|  | WATER MAIN S  | EPARATION IN ACCOR  | DANCE WITH F.A.C. R   | ULE 62-555.314  |
|--|---|---|---|---|
|  | OTHER PIPE  | HORIZONTAL<br>SEPARATION  | CROSSING<br>(1), (4)  | JOINT SPACING<br>@ CROSSING<br>(FULL JOINT CENTERED)<br>(8)   |
| ST<br>ST<br>RE                               | form Sewer,<br>form Water Force Main,<br>eclaimed Water (2)   | WATER MAIN  | 12 inches is the minimum<br>except for storm sewer, then<br>6 inches is the minimum and<br>12 inched is preferred   | Alternate 3 ft minimum  |
| Gi<br>S⁄<br>RE                               | RAVITY SANITARY SEWER, (3)<br>INITARY SEWER FORCE MAIN,<br>ECLAIMED WATER   | WATER MAIN  | VATER MAIN 3<br>12 inches is the minimum<br>except for gravity sewer, then<br>6 inches is the minimum and<br>12 inched is preferred   | Alternate 6 ft minimum  |
| 0<br>&                                       | N-SITE SEWAGE TREATMENT<br>DISPOSAL SYSTEM  | 10 ft minimum   |   |   |
| 1.<br>2.<br>3.<br>4.<br>5.<br>6.<br>7.<br>8. | WATER MAIN SHOULD CROS<br>SEPARATION IS 12 INCHES.<br>RECLAIMED WATER REGULA<br>3 FT. FOR GRAVITY SANITAR<br>TOP OF THE GRAVITY SANIT<br>18" VERTICAL MINIMUM SE<br>A MINIMUM 6 FOOT HORIZ<br>IN PARALLEL INSTALLATION<br>IN CASES WHERE IT IS NOT F<br>IN A SEPARATE TRENCH OR<br>SUCH AN ELEVATION THAT<br>WHERE IT IS NOT POSSIBLE<br>MAIN SHALL BE CONSTRUCT<br>MINIMUM VERTICAL DISTAN<br>WATER MAIN SHALL BE LOC<br>JOINTS).<br>ALL JOINTS ON THE WATER | SS ABOVE OTHER PIPE, WHEN W<br>ATED UNDER PART III OF CHAPTE<br>Y SEWER WHERE THE BOTTOM (<br>ARY SEWER.<br>PARATION REQUIRED BY CITY OF<br>ONTAL SEPARATION SHALL BE W<br>S WHENEVER POSSIBLE.<br>POSSIBLE TO MAINTAIN A 10 FOR<br>ON AN UNDISTURBED EARTH SH<br>THE BOTTOM OF THE WATER M/<br>TO MAINTAIN A VERTICAL DISTA<br>TO MAINTAIN A VERTICAL DISTA<br>TO DIP AND THE SANITARY S<br>NCE OF 6 INCHES. THE WATER M<br>ATED AS FAR APART AS POSSIBL<br>MAIN WITHIN 20 FEET OF THE C | ATER MAIN MUST BE BELOW OT<br>R 62-610, F.A.C.<br>DF THE WATER MAIN IS LAID AT<br>HOLLYWOOD, UNLESS OTHERW<br>JAINTAINED BETWEEN ANY TYPE<br>DT HORIZONTAL SEPARATION, TH<br>ELF LOCATED ON ONE SIDE OF T<br>AIN IS AT LEAST 18 INCHES ABOV<br>NCE OF 18 INCHES IN A PARALLE<br>EWER OR FORCE MAIN SHALL BE<br>AIN SHOULD ALWAYS BE ABOVE<br>E FROM JOINTS ON THE SEWER O<br>ROSSING MUST BE MECHANICAL | HER PIPE, THE MINIMUM<br>LEAST 6 INCHES ABOVE THE<br>/ISE APPROVED.<br>OF SEWER AND WATER MAIN<br>IE WATER MAIN MUST BE LAID<br>HE SEWER OR FORCE MAIN AT<br>E THE TOP OF THE SEWER.<br>LINSTALLATIONS, THE WATER<br>E CONSTRUCTED OF DIP WITH A<br>THE SEWER. JOINTS ON THE<br>DR FORCE MAIN (STAGGERED<br>Y RESTRAINED. |
| CT HOL                                       | ISSUED: 03/01/  | 1994 DEPARTMENT OF PL   | JBLIC UTILITIES STANDARD  | DETAIL REVISED: 11/06/201   |
| C DAN<br>COLD                                | DRAWN:<br>APPROVED:   | EAM SEPARAT   | ION REQUIREMENTS<br>OF<br>F.D.E.P.  | 5 DRAWING NO.<br><b>G-01.1</b>  |
| - mp   | ORAL  |   |   |   |

|              | 2              | 1990ED:  | 00/01/1994 | DEFAILTMENT | 01  | FUDLIC | UTILITILJ | JIAN |
|--------------|----------------|----------|------------|-------------|-----|--------|-----------|------|
| DIAMOND      | 101            | DRAWN:   | EAM        | SEPA        | ARA | TION   | REQUIR    | EMI  |
| CORPORATE ST | <mark>.</mark> | APPROVED | : XXX      |             |     | F.[    | D.E.P.    |      |
|              |                |          |            |             |     |        |           |      |

| 301 East Atlantic Blvd. Pompano<br>Beach, FL 33060<br>PH: (954) 788-3400<br>Florida Certificate of Authorization: 7928<br>Licensed Business Number: 6860<br>REVISIONS<br>NO. DESCRIPTION DATE | _ |
|---|---|
| Florida Certificate of Authorization: 7928<br>Licensed Business Number: 6860 REVISIONS NO. DESCRIPTION DATE   | - |
| REVISIONS NO. DESCRIPTION DATE  |   |
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| PRELIMINARY PLAN  |   |
| NOT FOR CONSTRUCTION<br>THESE PLANS ARE NOT FULLY PERMITTED   |   |
| AND ARE SUBJECT TO REVISIONS MADE<br>DURING THE PERMITTING PROCESS.   |   |
| RESPONSIBILITY FOR THE USE OF THESE<br>PLANS PRIOR TO OBTAINING PERMITS FROM  | М |
| ALL AGENCIES HAVING JURISDICTION OVER<br>THE PROJECT WILL FALL SOLELY UPON TH   | R |
| ISSUE DATE: 03/17/2   | 1 |
| DESIGNED BY: MO   |   |
| CHECKED BY: J   |   |
| BID-CONTRACT:   |   |
|   |   |
| This item has been<br>digitally signed and<br>sealed by James A   |   |
| No. 33256 Thiele, P.E. on<br>05/14/2021   |   |
| Printed copies of this<br>document are not<br>considered signed   |   |
| and sealed and the<br>signature must be<br>verified on any  |   |
|   | - |
| JAMES A. THIELE, P.E.<br>FLORIDA REG. NO. 33256<br>(FOR THE FIRM)   |   |
| CLIENT  |   |
|   |   |
| 4   |   |
|   |   |
|   |   |
| PINNACLE<br>COMMUNITED TO EXCELLENCE  |   |
|   |   |
| PROJECT   |   |
|   |   |
|   |   |
| <b>PINNACLE 441</b>   |   |
|   |   |
|   |   |
|   |   |
| SHEET TITLE   |   |
|   |   |
| WATER AND SEWER   |   |
| DETAILS   |   |
|   |   |
|   |   |

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CU-501

11074.01

SHEET

NUMBER

PROJECT

NUMBER



2







1. WHEN PIPE INSTALLATION IS ABOVE THE GROUND WATER TABLE ELEVATION, OR WHENEVER BEDDING COPPER PIPE UNDER ANY CONDITION, BEDDING MATERIAL SHALL BE CLEAN SANDY SOIL IF AVAILABLE WITHIN THE LIMITS OF CONSTRUCTION. IMPORTED BEDDING SHALL BE WELL GRADED, WASHED CRUSHED STONE (OR DRAINFIELD LIMEROCK). CRUSHED STONE SHALL CONSIST OF HARD, DURABLE, SUB-ANGULAR PARTICLES OF PROPER SIZE AND GRADATION, AND SHALL BE FREE FROM ORGANIC MATERIAL, WOOD, TRASH, SAND, LOAM, CLAY, EXCESS FINES, AND OTHER

DELETERIOUS MATERIALS. 2. ALL BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY BEFORE ANY PIPE IS LAID. FOR ADDITIONAL MATERIAL SPECIFICATIONS REFER TO SPECIFICATION SECTION 02222, "EXCAVATION AND BACKFILL FOR UTILITIES". 3. DENSITY TESTING SHALL BE IN ACCORDANCE WITH AASHTO T-180 AND ASTM D-3017

4. BACKFILL TO COMPLY WITH FDOT DESIGN STANDARD 125-8.

| ED:  | 03/01/1994 | DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL | REVISED: 06/08/2014 |
|------|------------|--|---------------------|
| /N:  | EAM        | PIPE LAYING CONDITION TYPICAL                  | DRAWING NO.         |
| OVED | : XXX      | SECTION (P.V.C.)                               | G-03                |



| IN:EAMTYPICAL TAPPING SLEEVE<br>AND VALVE SETTINGDRAWING NO.OVED:XXXAND VALVE SETTINGG-06 | F PUBLIC UTILITIES STANDARD DETAIL REVISED: OR | 3/08/2014 |
|---|--|-----------|
| OVED: XXX AND VALVE SETTING G-06  | ICAL TAPPING SLEEVE                            | Э.        |
|   | ND VALVE SETTING G-C                           | )6        |



APPROVED:

XX)



3

| GRADE  |                              |                            | KEII   | H                                |
|--|------------------------------|----------------------------|--|----------------------------------|
|  |                              | 301 East                   | Atlantic Blvd. Por   | npano                            |
|  |                              | E                          | 3each, FL 33060  | ipuno                            |
| OBSTRUCTION                                  |                              | Pr<br><br>Florida Cer      | 1: (954) 788-3400  | : 7928                           |
|  |                              | License                    | ed Business Number: 68                                       | 60                               |
| REFER TO T<br>RESTRAINT NO<br>DETAILS (G-11  | THRUST<br>TES AND<br>THROUGH | NO. DES                    | CRIPTION   | DATE                             |
| ERTICAL G-11.3) FOR<br>ENDS OF PIPE TO F     | LENGTHS<br>RESTRAIN          |                            |  |                                  |
| CENTER A FULL                                | /_                           |                            |  |                                  |
| OF CROSSING                                  |                              |                            |  |                                  |
| RESTRAIN ALL FITTINGS                        |                              |                            |  |                                  |
| DASSING USING FITTINGS                       |                              |                            |  |                                  |
| NDARD DETAIL G-01.1, "SEPARATION             |                              |                            |  |                                  |
| FOR FDEP AND HEALTH DEPARTMENT<br>UIREMENTS. |                              |                            |  |                                  |
|  |                              |                            |  |                                  |
| GRADE  |                              |                            |  |                                  |
|  |                              |                            |  |                                  |
| OBSTRUCTION                                  |                              |                            |  |                                  |
|  |                              |                            | -IMINARY PL/   |                                  |
| * <u>SLOPE UP TO MIN. COVER</u>              |                              | THESE PLAN                 | IS ARE NOT FULLY PE  |                                  |
| CENTER A FULL IFNGTH OF PIPE                 |                              | DURING T                   | THE PERMITTING PRO   | CESS.                            |
| AT THE POINT OF CROSSING                     |                              | RESPONSIBI                 |  |                                  |
|  |                              | ALL AGENCIE<br>THE PROJECT | .ο πανίΝο JURISDICTI<br>Γ WILL FALL SOLELY (<br>ΠΙΘΕΡ        | JPON THE                         |
|  |                              | ISSUE DATI                 | 03ER.<br>E:  | 03/17/21                         |
| NG USING JOINT DEFLECTIONS                   | 2                            | DESIGNED                   | BY:  | MC                               |
| MENT SEPARATION REQUIREMENTS.                |                              | DRAWN BY                   | :  | GR                               |
|  |                              | BID-CONTR                  | <u>3Y:</u><br>ACT:   | JI                               |
| IENT OF PUBLIC UTILITIES STANDARD DETAIL     | REVISED: 06/08/2014          |                            |  |                                  |
|  | DRAWING NO.                  |                            | SATHIXI, This item   | has been                         |
| UTILITY CROSSING DETAIL                      | G-04                         | LILLI AMUL                 | CENS<br>CENS<br>CENS<br>CENS<br>CENS<br>CENS<br>CENS<br>CENS | igned and<br>/ James A<br>.F. on |
|  |                              |                            | 33250 05/14/   | 2021                             |
|  |                              | TA STA                     |  | t are not<br>ed signed           |
|  |                              |                            | OR IDA seale<br>verified o                                   | ed and the<br>must be<br>n any   |
|  |                              |                            |  | ; copies.                        |
|  |                              | JAM                        | IES A. THIELE, P.E<br>IDA REG. NO. 332                       | E.<br>256                        |
| SAW-CUT A                                    | AND MATCH<br>AVEMENT         | (                          | FOR THE FIRM)  |                                  |
|  | THOK                         | CLIENT                     |  |                                  |
|  | COLLAR                       |                            | 4  |                                  |
| / T BELOW C<br>/ ALL AROUN<br>PAVED ARE      | D FOR                        |                            |  |                                  |
|  |                              |                            |  |                                  |
|  |                              | -                          |  |                                  |
|  |                              | <b>P</b>                   |  |                                  |
| STANDARD DETAI                               | L G-05)                      |                            |  |                                  |
|  |                              | PROJECT                    |  |                                  |
|  |                              |                            |  |                                  |
|  |                              |                            |  |                                  |
| GATE VALVE (MECH                             | HANICAL JOINTS)              |                            |  |                                  |
|  |                              |                            | NNACLE 44  | ·                                |
|  |                              |                            |  |                                  |
|  |                              |                            |  |                                  |
|  |                              |                            |  |                                  |
|  |                              | SHEET TITI                 | LE   |                                  |
|  |                              |                            |  |                                  |
|  |                              |                            |  |                                  |
|  |                              | WATE                       | R AND SEW  | /ER                              |
|  |                              |                            | DETAILS  |                                  |
|  |                              |                            |  |                                  |
|  |                              |                            |  | r                                |
| MENT OF PUBLIC UTILITIES STANDARD DETAIL     | REVISED: 06/08/2014          |                            |  |                                  |
| TYPICAL GATE VALVE AND                       |                              |                            | CU-502   | 2                                |
|  | 0-07                         | PROJECT                    |  |                                  |
|  |                              | NUMBER                     | 11074.0  | יז וי                            |



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| MADIZ | PIPE SIZE |    |     |     |  |  |
|-------|-----------|----|-----|-----|--|--|
| WARK  | 4" OR 6"  | 8" | 10" | 12" |  |  |
| Α     |           |    |     |     |  |  |
| В     |           |    |     |     |  |  |
|       | *         |    |     |     |  |  |

| D:   | 03/01/1994 | DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL | REVISED: 06/08/2014 |
|------|------------|--|---------------------|
| N:   | EAM        |  | DRAWING NO.         |
| OVED | ): XXX     | I HRUST BLOCK DESIGN                           | G-10                |

| MIN. RESTRAINED<br>LENGTH (MRL)   |         |      |      |                  |                       |      |  |
|---|---------|------|------|------------------|-----------------------|------|--|
| REDUCERS  |         |      |      |                  |                       |      |  |
| MINIMUM LENGTH TO<br>MALL RESTRAIN ON LARGE SIDE (FT) LARGE SMALL RESTRAIN ON LARGE SIDE (FT)<br>SIDE SIDE SIDE |         |      |      |                  |                       |      |  |
| 0.01  | PVC     | *DIP | 0.02 | 0.02             | PVC                   | *DIP |  |
| 16"   | •       |      |      | 8"               | ٠                     |      |  |
| 12"   |         |      | 12"  | 6"               | v                     |      |  |
| 8"  | a       |      |      | 4"               | Ð                     |      |  |
| 6"  | •       |      |      | 6"               |                       |      |  |
| 4"  | -       |      | 8"   | 4"               |                       |      |  |
| 12"   |         |      |      | 2"               |                       |      |  |
| 8"  | •       |      | C"   | 4"               | •                     |      |  |
| 6"  | a       |      | 0    | 2"               | ٠                     |      |  |
| 4"  |         |      | 4"   | 2"               |                       | 64'  |  |
|   | <u></u> |      |      | MIN. RE<br>LENG1 | ESTRAINED<br>TH (MRL) |      |  |

|           | DEAD ENDS     |                |  |  |  |  |
|-----------|---------------|----------------|--|--|--|--|
| PIPE DIA. | MIN. RESTRAIN | ED LENGTH (FT) |  |  |  |  |
| (INCHES)  | PVC           | *DIP           |  |  |  |  |
| 24"       |               | •              |  |  |  |  |
| 16"       |               | •              |  |  |  |  |
| 12"       |               |                |  |  |  |  |
| 8"        | •             | •              |  |  |  |  |
| 6"        |               | •              |  |  |  |  |
| 4"        |               |                |  |  |  |  |

| ED: 03/01/1994 <b>DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL</b> REVIS | SED: 06/08/2014 |
|--|-----------------|
| NN: EAM JOINT RESTRAINT DESIGN DRAW  | VING NO.        |
| ROVED: XXX REDUCERS AND DEAD ENDS  | 5-11.3          |

# THRUST RESTRAINT NOTES:

- 1. ALL JOINTS BETWEEN BENDS AT HORIZONTAL & VERTICAL OFFSETS SHA
- 2. MECHANICAL THRUST RESTRAINTS FOR D.I.P. FITTINGS ON D.I.P. OR P.V. AS MANUFACTURED BY EBAA IRON, INC., OR APPROVED EQUAL.
- 3. DUCTILE IRON FITTINGS UP TO 20-INCHES IN DIAMETER SHALL BE RESTR MEANS, I.E., MEGALUGS OR APPROVED EQUAL.
- 4. DUCTILE IRON FITTINGS 24-INCH IN DIAMETER AND ABOVE SHALL BE RE MEANS, I.E., MEGALUGS OR APPROVED EQUAL, WITH THE ADDITION OF CONCRETE ANCHORS AT THE DISCRETION OF THE ENGINEER OF RECORD
- 5. ANY THRUST BLOCKS AND ANCHORS ARE TO BE DESIGNED BY THE ENG AND SEALED CALCULATIONS SHALL BE SUBMITTED TO THE CITY FOR APP INSTALLATION.
- 6. THRUST BLOCKS CONSISTING OF POURED-IN-PLACE CONCRETE SHALL HA COMPRESSIVE STRENGH OF 2,500 PSI AFTER 28 DAYS.



| 1.  | THE ABOVE DETAILS APPLY ONLY TO ASPHALT PAVEMENT RESTORATION OVER<br>WITHIN CITY OF HOLLYWOOD RIGHTS-OF-WAY. FOR PAVEMENT RESTORATION<br>COUNTY OR FDOT RIGHTS-OF-WAY REFER TO THE CORRESPONDING DETAILS F  |
|-----|---|
| 2.  | LIMEROCK BASE MATERIAL SHALL HAVE A MINIMUM L.B.R. OF 100 AND A MIN<br>CONTENT OF 70%. REPLACED BASE MATERIAL OVER TRENCH SHALL BE A MINI   |
| 3.  | LIMEROCK BASE MATERIAL SHALL BE PLACED IN 12" MAXIMUM (LOOSE MEAS<br>LAYERS WITH EACH LAYER THOROUGHLY ROLLED OR TAMPED AND COMPACT<br>MAXIMUM DENSITY, PER AASHTO T-180, PRIOR TO THE PLACEMENT OF THE S   |
| 4.  | STABILIZED SUBGRADE MATERIAL SHALL BE GRANULAR AND SHALL HAVE A MI  |
| 5.  | BACKFILL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE PIPE<br>TYPICAL SECTIONS IN DETAILS G-02 AND G-03, AND THE SPECIFICATIONS, BUT<br>ABOVE THE INSTALLED FACILITY.   |
| 6.  | ALL EDGES AND JOINTS OF EXISTING ASPHALT PAVEMENT SHALL BE SAW CUT<br>PARALLEL TO OR PERPENDICULAR TO THE ROADWAY, PRIOR TO THE RESURFAC  |
| 7.  | RESURFACING MATERIAL SHALL BE FDOT SUPERPAVE, AND SHALL BE APPLIED INCH IN THICKNESS.   |
| 8.  | MILL AND BUTT JOINT TO EXISTING PAVEMENT.   |
| 9.  | IF THE TRENCH IS FILLED TEMPORARILY, IT SHALL BE COVERED WITH A 2" ASPE<br>TO KEEP THE FILL MATERIAL FROM RAVELING UNTIL REPLACED WITH A PERMA  |
| 10. | REFER TO SPECIFICATIONS FOR DETAILED PROCEDURES.  |
| 11. | WHERE THE UTILITY TRENCH CROSSES EXISTING ASPHALT DRIVEWAYS, THE LIN<br>MAY BE A MINIMUM OF 6 INCHES THICK. REGARDLESS OF THE EXTENT OF IMP<br>DRIVEWAY SURFACE BETWEEN THE EDGE OF THE ROADWAY PAVEMENT AND<br>FRONT OF SIDEWALK SHALL BE OVERLAID USING 2-INCH THICK MINIMUM ASP<br>SURFACE COURSE WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE |
|     |   |
|     |   |

| THOLLI WOOD PLC   | ISSUED: | 03/01/1994 | DEPARTMENT OF PUBLIC UTILITIES STAND |
|-------------------|---------|------------|--------------------------------------|
| DEAMOND<br>ar rai | DRAWN:  | EAM        | FLEXIBLE PAVEMENT RESTOR             |
| TORPORATE UT      |         | ): XXX     | NOTES                                |
|                   |         |            |                                      |

|                                  |                          |   |   | K              |                                    | E   | IH  |
|----------------------------------|--------------------------|---|---|----------------|------------------------------------|---|---|
|                                  |                          |   |   | 30             | 1 East Atl<br>Bea                  | antic Blvd.<br>ch. FL 3306                | Pompano<br>60   |
|                                  |                          |   |   |                | PH: (                              | 954) 788-34                               | 00  |
|                                  |                          |   |   |                | Licensed B                         | usiness Numbe                             | er: 6860  |
| ALL BE RESTRAIN                  | NED.<br>BE MEGALUG       |   |   | NO.            | DESCR                              |   | DATE  |
| RAINED BY MEC                    | HANICAL                  |   |   |                |                                    |   |   |
| ESTRAINED BY N<br>F THRUST BLOC  | MECHANICAL<br>KS AND     |   |   |                |                                    |   |   |
| INEER OF RECO<br>PROVAL PRIOR    | RD. SIGNED<br>TO         |   |   |                |                                    |   |   |
| AVE A MINIMU                     | IM                       |   |   |                |                                    |   |   |
|                                  |                          |   |   |                |                                    |   |   |
|                                  |                          |   |   |                |                                    |   |   |
|                                  |                          |   |   |                |                                    |   |   |
|                                  |                          |   |   | NO             | T FOR                              | CONSTR                                    |   |
|                                  |                          |   |   | AND<br>DI      | E PLANS A<br>ARE SUBJ<br>URING THE | RE NOT FULL<br>ECT TO REVIS<br>PERMITTING | Y PERMITTED<br>SIONS MADE<br>PROCESS.                       |
|                                  |                          |   |   | RESI<br>PLANS  | PONSIBILIT                         | Y FOR THE US<br>OBTAINING P               | SE OF THESE<br>PERMITS FROM                                 |
|                                  |                          |   |   | ALL A<br>THE P | GENCIES H<br>ROJECT WI             | AVING JURISI<br>LL FALL SOLI<br>USER.     | ELY UPON THE  |
|                                  |                          |   |   | ISSU           | E DATE:                            |   | 03/17/21  |
|                                  |                          |   |   | DESI<br>DRAV   | GNED BY<br>VN BY:                  | :   | MC<br>GR  |
|                                  |                          |   |   |                | KED BY:                            | Τ·  | JT  |
| ARD DETAIL                       | REVISED: 06/08/2014      |   |   |                |                                    |   |   |
| N                                | DRAWING NO.              |   |   |                | MESA                               |   | nis item has been<br>gitally signed and                     |
| ES                               | 0 11                     |   |   |                | No. 332                            |   | aled by James A<br>niele, P.E. on<br>15/14/2021             |
|                                  |                          |   |   | IIIII PF       | STATE                              |   | inted copies of this<br>ocument are not<br>onsidered signed |
|                                  |                          |   |   |                |                                    | DA<br>ENCIT<br>ve                         | nd sealed and the<br>gnature must be<br>prified on any      |
|                                  |                          |   |   |                |                                    | ከመከት የለ<br>እል THIFI F                     | P F   |
|                                  |                          |   |   |                | FLORIDA<br>(FO                     | R THE FIRM                                | , 1 .2.<br>. 33256<br>M)                                    |
| OVER UTILITY TR                  | ENCHES CUT               |   |   | CLIE           | NT                                 |   |   |
| TION WITHIN BE<br>LS FOR THOSE A | ROWARD<br>AGENCIES.      |   |   |                |                                    | 4   |   |
| MINIMUM CAR                      | BONATE<br>2" THICK".     |   |   |                |                                    |   |   |
| EASUREMENT) 1<br>ACTED TO 100%   | THICKNESS<br>OF          |   |   |                |                                    |   |   |
| 1E SUCCEEDING<br>A MINIMUM L.B   | LATERS.<br>B.R. OF 40.   |   |   |                | PIN                                |   | E   |
| PIPE LAYING CO<br>BUT TESTING W  | NDITION<br>ILL BEGIN 12" |   |   |                |                                    |   |   |
|                                  | IT LINFS                 |   |   | PRO.           | JECT                               |   |   |
| RFACING.                         |                          |   |   |                |                                    |   |   |
|                                  |                          |   |   |                |                                    |   |   |
| ASPHALTIC CON                    | CRETE PATCH              |   |   |                | PINN                               |   | 441   |
| RMANENT PATC                     | CH.                      |   |   |                |                                    |   |   |
|                                  | SE THICKNESS             |   |   |                |                                    |   |   |
| ND PROPERTY L                    | INE OR<br>NCRETE         |   |   | SHEE           |                                    |   |   |
| HE CITY/ENGIN                    | EER.                     |   |   |                |                                    |   |   |
|                                  |                          |   |   |                | /ATER                              | AND SI                                    | EWER  |
|                                  |                          |   |   |                | D                                  | ETAILS                                    | _ v v [_] \   |
|                                  |                          |   |   |                |                                    |   |   |
| ARD DFTAIL                       | REVISED: 11/06/2017      |   |   |                |                                    |   |   |
| ATION                            | RAWING NO.               |   |   | SHEE           | ET                                 |   | 00  |
|                                  | G-12                     |   |   | NUM            | BER                                | UU-5                                      | UJ  |
|                                  |                          |   |   | PROJ<br>NUMI   | BER                                | 1107                                      | 4.01  |
|                                  |                          | 5 | 5 |                |                                    |   |   |



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1. THE MINIMUM DEPTH OF COVER OVER D.I.P. SANITARY SEWER GRAVITY OR FORCE MAINS IS 30". THE MINIMUM DEPTH OF COVER OVER PVC SANITARY SEWER OR FORCE MAINS IS 36".

2. ALL CONNECTIONS TO EXISTING MAINS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

3. LEAKAGE TESTS AND ALIGNMENT (LAMPING) TESTS SHALL BE PERFORMED ON ALL NEW SEWER LINES UP TO THE CONNECTION POINT WITH THE EXISTING SEWER SYSTEM. THESE TESTS SHALL BE REQUESTED AND PAID FOR BY THE

4. LAMPING TESTS SHALL BE PERFORMED ON GRAVITY SEWERS FROM MANHOLE TO MANHOLE UP TO AND INCLUDING THE POINT OF CONNECTION TO THE EXISTING SEWER SYSTEM.

5. LEAKAGE TESTS SHALL BE PERFORMED ON ALL SEGMENTS OF A GRAVITY SEWER SYSTEM, INCLUDING SERVICE LATERALS AND MANHOLES, FOR A CONTINUOUS PERIOD OF NO LESS THAN 2 HOURS. AT THE END OF THE TEST, THE TOTAL MEASURED LEAKAGE SHALL NOT EXCEED 100 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM, WITH ZERO ALLOWABLE LEAKAGE FOR LATERALS AND MANHOLES. AN EXFILTRATION OR INFILTRATION TEST SHALL BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET ON THE SECTION BEING

6. FORCE MAINS SHALL BE PRESSURE-TESTED IN ACCORDANCE WITH RULE 62-555.330 (FAC). THE PRESSURE TEST SHALL CONSIST OF HOLDING A TEST PRESSURE OF 150 PSI ON THE PIPELINE FOR A CONTINUOUS PERIOD OF 2 HOURS THE MAXIMUM ALLOWABLE LEAKAGE SHALL BE DETERMINED BY THE FOLLOWING FORMULA:

> $L = S \times D \times \sqrt{P}$ 148,000

L = ALLOWABLE LEAKAGE FOR SYSTEM IN GALLONS PER HOUR D = PIPE DIAMETER IN INCHES

P = AVERAGE TEST PRESSURE IN PSI

7. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTYFYING CONFLICTS WITH FORCE MAINS PLACED AT MINIMUM COVER. IN CASE OF CONFLICT, FORCE MAIN SHALL BE LOWERED TO PASS UNDER CONFLICTS WITH 12" MINIMUM SEPARATION FROM WATER MAINS AND 6" MINIMUM SEPARATION FROM OTHER UTILITIES. NO ADDITIONAL PAYMENT SHALL BE DUE TO CONTRACTOR FOR LOWERING THE MAIN OR THE ADDITIONAL FITTINGS USED THEREON.

8. WHENEVER IT IS NECESSARY, IN THE INTEREST OF SAFETY, TO BRACE THE SIDES OF A TRENCH, THE CONTRACTOR SHALL FURNISH, PUT IN PLACE AND MAINTAIN SUCH SHEETING OR BRACING AS MAY BE NECESSARY TO SUPPORT THE SIDES OF THE EXCAVATION TO ENSURE PERSONNEL SAFETY, AND TO PREVENT MOVEMENT WHICH CAN IN ANY WAY DAMAGE THE WORK OR ENDANGER ADJACENT STRUCTURES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SEQUENCE, METHODS AND MEANS OF CONSTRUCTION, AND FOR THE IMPLEMENTATION OF ALL OSHA AND OTHER SAFETY REQUIREMENTS.

| ED:  | 03/01/1994 | DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL | REVISED: 06/08/2014 |
|------|------------|--|---------------------|
| VN:  | EAM        | SANITARY SEWER MAIN                            | DRAWING NO.         |
| OVED | : XXX      | CONSTRUCTION NOTES                             | S-01                |



2. NO. 57 ROCK OR  $\frac{3}{4}$ " DRAINFIELD LIMEROCK MAY BE USED AS BEDDING OVER UNDISTURBED SOIL WITH PVC PIPE.

3. SINGLE SERVICE CONNECTIONS SHALL USE 6" (MIN.) DIAMETER PIPE AND FITTINGS.

| /N:   | EAM | SANITARY SEWER LATERAL | DRAWING NO. |
|-------|-----|------------------------|-------------|
| OVED: | XXX | VERTICAL RISER         | 2-11        |







4

3

|                                       | SEE<br>NOTE 3   |   |   | Sol East A<br>Be<br>PH:<br>Florida Certi<br>Licensed   | KES<br>Atlantic Blvd.<br>each, FL 3306<br>(954) 788-34<br>ficate of Authoriz<br>Business Number<br>REVISIONS<br>CRIPTION                | Pompano<br>00<br>ation: 7928<br>er: 6860  | Diotted hv: amorales On Wednesday Sentember 23 2020 9:40:08 AM |
|---------------------------------------|---|---|---|--|---|---|--|
| <u>OPE UP TO P</u><br>N. 1/8" PER FT. |   |   |   | PRELI<br>NOT FOR<br>THESE PLANS<br>AND ARE SUI<br>DURING TH<br>RESPONSIBIL<br>PLANS PRIOR T<br>ALL AGENCIES<br>THE PROJECT N | MINARY<br>ARE NOT FULL<br>BJECT TO REVIS<br>E PERMITTING<br>ITY FOR THE US<br>O OBTAINING P<br>HAVING JURISI<br>WILL FALL SOLE<br>USER. | PLAN<br>RUCTION<br>Y PERMITTED<br>SIONS MADE<br>PROCESS.<br>SE OF THESE<br>PERMITS FROM<br>DICTION OVER<br>ELY UPON THE   |  |
| ER THAN 7'-0" I<br>T COMPATIBLE,      | DEEP.<br>, USE A  |   |   | ISSUE DATE:<br>DESIGNED B<br>DRAWN BY:<br>CHECKED B<br>BID-CONTRA  | Υ:<br>Υ:<br>CT:   | 03/17/21<br>MC<br>GR<br>JT  |  |
| ON                                    | REVISED: 06/08/2014<br>DRAWING NO.<br><b>S-09</b>                       |   |   | No. 3  | THE OF<br>TO<br>A THE ST<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<br>S<br>S<br>S<br>S<br>S                      | his item has been<br>gitally signed and<br>aled by James A<br>hiele, P.E. on<br>5/14/2021<br>inted copies of this<br>ocument are not<br>nsidered signed<br>d sealed and the<br>gnature must be<br>rified on any<br>ectronic copies. | nd\Cadd\11074_01-CU-5XX_dwg                                    |
| 18" SQUARE                            | FLUSH BRASS<br>SCREW PLUG<br>CONCRETE<br>COLLAR<br>1 #3 CONT.           |   |   | JAME<br>FLORIE<br>(F   | ES A. THIELE<br>DA REG. NO.<br>OR THE FIRM  | , P.E.<br>33256<br>/)   | od - Pinnacle Housing Groun/Engineeri                          |
| ARD TYPE                              | AS REQUIRED   |   |   | PROJECT  |   |   | 111/11074 01 - Pinnacle 441 Hollywo                            |
| EMENT TYP                             | CONCRETE<br>SLAB<br>CLEANOUT<br>EXTENSION<br>AS REQUIRED<br>CE<br>TAILS |   |   | PIN  | NACLE   | 441   | Drawing name: N  |
| CE                                    |   |   |   | SHEET TITLI  | E   |   |  |
|                                       |   |   |   | WATEI<br>I   | R AND SI<br>DETAILS   | EWER  | Ċ  |
| DARD DETAIL<br>N AND<br>LINE          | REVISED: 06/08/2014<br>DRAWING NO.<br>S-12                              |   |   | SHEET<br>NUMBER<br>PROJECT   | CU-5  | 04  | T V T IIC. T V   |
|                                       |   | 5 | 5 | NUMBER   | 1107  |   | U  |

|   | 1   | 2   |
|---|---|---|
|   | WATER SYSTEM NOTES:   | WATER SYS   |
|   | <ol> <li>NEW OR RELOCATED UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY<br/>EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER WILL BE LAID SO</li> </ol>   | 11. ALL WATER I<br>62-555.320 F                                 |
|   | THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OTHER PIPELINE OR AT LEAST 12<br>INCHES BELOW THE OTHER PIPELINE.  | 12. ALL PVC PIPE<br>DR 18. ALL D<br>COMPLYING                   |
| П | EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN,<br>OR PIPELINE CONVEYING RECLAIMED WATER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT<br>LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE. [FAC 62-555.314(2); EXCEPTIONS ALLOWED<br>UNDER FAC 62-555.314(5)].   | ANSI/AWWA<br>13. FITTINGS SHA<br>MINIMUM W<br>C104/A21.4-       |
| U | 3. AT ALL UTILITY CROSSINGS DESCRIBED ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE WILL BE CENTERED<br>ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM<br>THE OTHER PIPELINE, OR THE PIPES WILL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST<br>THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE  | AMERICA.<br>14. ALL DUCTILE<br>AGAINST CO                       |
|   | MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610,<br>F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS,<br>WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART<br>III OF CHAPTER 62-610, F.A.C. [FAC 62-555.314(2); EXCEPTIONS ALLOWED UNDER FAC 62-555.314(5)].  | 15. PAVEMENT F<br>16. ALL TRENCH                                |
|   | 4. NEW UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT TO BE DUCTILE IRON PIPE (D.I.P.) WHEN CROSSING BELOW SANITARY SEWER MAINS.  | CITY OF HOL<br>17. THE MINIMU                                   |
|   | 5. POLYETHYLENE ENCASEMENT MATERIAL SHALL BE USED TO ENCASE ALL BURIED DUCTILE IRON PIPE,<br>FITTINGS, VALVES, RODS, AND APPURTENANCES IN ACCORDANCE WITH AWWA C105, METHOD A. THE<br>POLYETHYLENE TUBING SHALL BE CUT TWO FEET LONGER THAN THE PIPE SECTION AND SHALL OVERLAP<br>THE ENDS OF THE PIPE BY ONE FOOT. THE POLYETHYLENE TUBING SHALL BE GATHERED AND LAPPED TO<br>PROVIDE A SNUG FIT AND SHALL BE SECURED AT QUARTER POINTS WITH POLYETHYLENE TAPE. EACH END | 18. MINIMUM H<br>19. MAXIMUM E<br>(MAXIMUM)                     |
|   | <ul> <li>OF THE POLYETHYLENE TUBING SHALL BE SECURED WITH A WRAP OF POLYETHYLENE TAPE.</li> <li>6. THE POLYETHYLENE TUBING SHALL PREVENT CONTACT BETWEEN THE PIPE AND BEDDING MATERIAL, BUT IS NOT INTENDED TO BE A COMPLETELY AIRTIGHT AND WATERTIGHT ENCLOSURE. DAMAGED POLYETHYLENE</li> </ul>   | 20. CONTRACTO<br>MINIMUM C<br>WITH 18" M<br>FOR LOWERI          |
|   | SECTION SHALL BE REPAIRED IN A WORKMANLIKE MANNER USING POLYETHYLENE TAPE, OR THE DAMAGED<br>SECTION SHALL BE REPLACED. POLY WRAP WILL NOT BE PAID FOR AS A SEPARATE BID ITEM. IT SHALL BE<br>CONSIDERED TO BE A PART OF THE PRICE BID FOR WATER MAINS.   | 21. PIPE JOINT R<br>MANUFACTU<br>THE RESTRA                     |
|   | <ol> <li>FIRE HYDRANT BARRELS SHALL BE ENCASED IN POLY WRAP OP TO THE GROUND SORFACE AND THE WEEP<br/>HOLES SHALL NOT BE COVERED BY THE POLY WRAP.</li> <li>8. GATE VALVES FOR USE WITH PIPE LESS THAN THREE INCHES (3") IN DIAMETER SHALL BE RATED FOR TWO</li> </ol>  | MEGALUG O<br>JOINTS (60 F                                       |
| с | HUNDRED (200) PSI WORKING PRESSURE, NON-SHOCK, BLOCK PATTERN, SCREWED BONNET, NON-RISING<br>STEM, BRASS BODY, AND SOLID WEDGE. THEY SHALL BE STANDARD THREADED FOR PVC PIPE AND HAVE A<br>MALLEABLE IRON HANDWHEEL. GATE VALVES 3" THROUGH 16" IN DIAMETER SHALL BE RESILIENT SEAT AND<br>BIDIRECTIONAL FLOW ONLY. VALVES FOR SPECIAL APPLICATIONS WILL REQUIRE CITY UTILITY APPROVAL.  | 22. WHENEVER<br>CONTRACTO<br>NECESSARY<br>MOVEMENT<br>CONTRACTO |
|   | 9. VALVE BOXES AND COVERS FOR ALL SIZE VALVES SHALL BE OF CAST IRON CONSTRUCTION AND ADJUSTABLE<br>SCREW-ON TYPE. THE LID SHALL HAVE CAST IN THE METAL THE WORD "WATER" FOR THE WATER LINES.<br>ALL VALVE BOXES SHALL BE SIX INCH (6") NOMINAL DIAMETER AND SHALL BE SUITABLE FOR DEPTHS OF THE<br>PARTICULAR VALVE. THE STEM OF THE BURIED VALVE SHALL BE WITHIN TWENTY-FOUR INCHES (24") OF<br>THE FINISHED GRADE UNLESS OTHERWISE APPROVED BY THE CITY.                | CONSTRUCT   |
|   | 10. ALL WATER MAIN INSTALLATIONS SHALL COMPLY WITH THE COLOR CODING REQUIREMENTS OF CHAPTER 62-555.320 F.A.C.   |   |
|   | ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2014 DRAWING NO.   | ISSUE   |
|   | APPROVED: XXX WATER SYSTEM NOTES W-01   | APPR  |
|   |   |   |
|   |   |   |
|   |   | 1. SUCCE  |
|   |   | 2. P.E. TU<br>"POLY<br>WATE                                     |
| В |   | 3. MINIM<br>DIAME   |
|   |   | 4. MININ<br>DIAME<br>5. FOR M                                   |
|   |   | 6. APPRC<br>7. FOR N  |
|   |   | VALVE<br>BY THE<br>HOLLY  |
|   |   | 8. FOR M<br>VALVE<br>BY THE                                     |
|   | EXISTING OR<br>PROPOSED<br>WATER MAIN   | 9. FOR EXISTI   |
|   | 1. PROPERTY OWNER'S SERVICE PIPE $(1)^{-1}$   | a. CU<br>THI<br>b. FUF  |
|   | <ol> <li>2. <sup>5</sup>/<sub>8</sub>", <sup>3</sup>/<sub>4</sub>" OR 1" METER INSTALLATION (REFER TO "SINGLE SERVICE PLAN" ON STANDARD<br/>DETAIL W-06) (TYP. FOR 4)</li> <li>3. COUPLING W/1" COMPRESSION FOR HDPE X <sup>3</sup>/<sub>4</sub>" MIP</li> </ol>  | BOX<br>12. THE EL<br>SIDEW                                      |
|   | <ol> <li>4. 1" HDPE SERVICE PIPE TO METER (TYP. FOR 4)</li> <li>5. COUPLING W/1" MIP X 1" COMPRESSION FOR HDPE (TYP. FOR 4)</li> <li>6. MULTI-SERVICE "Y" W/SINGLE 2" FIP INLET AND (4)-1" FIP OUTLETS (MULTI SERVICE BRASS Y)</li> </ol>   | 13. AS PAI<br>TO MA   |
| А | <ol> <li>COUPLING WITH 2" COMPRESSION FOR HDPE X 2" MIP</li> <li>2" HDPE WATER SERVICE PIPE</li> <li>COUPLING W/2" BRASS THREAD x 2" COMPRESSION FOR HDPE</li> </ol>  | SURFA<br>SERVIC   |
|   | <ol> <li>PROP. 2" GATE VALVE W/2" OPERATING WHEEL</li> <li>PROP. VALVE BOX W/LID AND RISER. FOR UNPAVED AREAS, INSTALL 24"x24"x8" THICK CONC.<br/>COLLAR</li> </ol>   | 14. FOR U   |
|   | <ol> <li>PROPOSED 2" BRASS NIPPLE</li> <li>PROP. DOUBLE STRAP SERVICE SADDLE FOR D.I.P. OR BAND SADDLE FOR PVC</li> <li>ALL FITTINGS TO BE BRASS.</li> </ol>  |   |
|   | ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 11/06/2017<br>DRAWN: EAM METER BANK INSTALLATION FOR FOUR DRAWING NO.  |   |
|   | VP SCALE: CUSTOM / 1.12:1   | APP   |
|   | 1   | 2   |

# STEM NOTES (CONTINUED):

MAIN INSTALLATIONS SHALL COMPLY WITH THE COLOR CODING REQUIREMENTS OF CHAPTER F.A.C.

E SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWWA C900 LATEST REVISION AND CLASS DIP WATER MAINS SHALL BE DUCTILE IRON PRESSURE CLASS 350, WITH WALL THICKNESS WITH CLASS 52. ALL DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF A C151/A21.51-02 AND BE CEMENT LINED AND SEAL COATED PER ANSI/AWWA C104/A21.4-03.

ALL BE DUCTILE IRON, MEETING ANSI/AWWA C153/A21.53-00 SPECIFICATIONS, WITH 350 PSI NORKING PRESSURE. FITTINGS MUST BE CEMENT LINED AND SEAL COATED PER ANSI/AWWA I-03. ALL DUCTILE IRON PIPE AND FITTINGS MUST BE MANUFACTURED IN THE UNITED STATES OF

E IRON PIPE TO BE MECHANICAL JOINTS, WRAPPED IN POLY. ADEQUATE PROTECTIVE MEASURES DRROSION SHALL BE USED AS DETERMINED BY DESIGN.

RESTORATION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY.

ING, PIPE LAYING, BACKFILL, PRESSURE TESTING, AND DISINFECTING MUST COMPLY WITH THE LYWOOD SPECIFICATIONS.

IUM DEPTH OF COVER OVER WATER MAINS IS 30" (DIP) OR 36" (PVC).

HORIZONTAL SEPARATION BETWEEN STORM STRUCTURES AND WATER MAINS SHALL BE 3'.

DEFLECTION PER EACH JOINT SHALL BE 50% OF MANUFACTURES RECOMMENDATION ) WHERE DEFLECTION IS REQUIRED.

DR SHALL BE RESPONSIBLE FOR IDENTIFYING CONFLICTS WITH WATER MAINS PLACED AT COVER. IN CASE OF CONFLICT, WATER MAIN SHALL BE LOWERED TO PASS UNDER CONFLICTS MINIMUM VERTICAL SEPARATION. NO ADDITIONAL PAYMENT SHALL BE DUE TO CONTRACTOR ING THE MAIN OR THE ADDITIONAL FITTINGS USED THEREON.

RESTRAINT SHALL BE PROVIDED BY THE USE OF DUCTILE IRON FOLLOWER GLANDS URED TO ASTM A 536-80. TWIST-OFF NUTS SHALL BE USED TO ENSURE PROPER ACTUATING OF INING DEVICES. THE MECHANICAL JOINT RESTRAINING DEVICES SHALL HAVE A WORKING OF 250 PSI MINIMUM, WITH A MINIMUM SAFETY FACTOR OF 2:1, AND SHALL BE EBAA IRON INC., OR APPROVED EQUAL. JOINT RESTRAINTS SHALL BE PROVIDED AT A MINIMUM OF THREE FEET) FROM ANY FITTING.

IT IS NECESSARY, IN THE INTEREST OF SAFETY, TO BRACE THE SIDES OF A TRENCH, THE OR SHALL FURNISH, PUT IN PLACE AND MAINTAIN SUCH SHEETING OR BRACING AS MAY BE TO SUPPORT THE SIDES OF THE EXCAVATION TO ENSURE PERSONNEL SAFETY, AND TO PREVENT FWHICH CAN IN ANY WAY DAMAGE THE WORK OR ENDANGER ADJACENT STRUCTURES. THE OR SHALL BE SOLELY RESPONSIBLE FOR THE SEQUENCE, METHODS AND MEANS OF TION, AND FOR THE IMPLEMENTATION OF ALL OSHA AND OTHER SAFETY REQUIREMENTS.

| ED:  | 03/01/1994 | DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL | REVISED: 06/08/2014 |
|------|------------|--|---------------------|
| /N:  | EAM        |  | DRAWING NO.         |
| OVED | : XXX      | WATER STSTEIVENUTES                            | W-02                |

# **METER SERVICE NOTES:**

ESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED NOT LESS THAN 18" ON CENTER. UBING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C901, ETHYLENE (PE) PRESSURE PIPE AND TUBING, 1/2 IN. (13mm) THROUGH 3 IN. (76 mm), FOR ER SERVICE".

/IUM SERVICE PIPE DIAMETER SHALL BE 1" FOR SINGLE OR DUAL %" OR SINGLE 1" ETER METERS.

/IUM SERVICE PIPE DIAMETER SHALL BE 2" FOR SINGLE OR DUAL 1-1/2" OR SINGLE 2" ETER METERS.

METER DIAMETERS LARGER THAN 2", THE MINIMUM SERVICE PIPE DIAMETER SHALL BE SAME AS THE METER DIAMETER.

OVED COPPER TUBING MAY BE USED AT THE CITY'S DISCRETION.

NEW METER INSTALLATIONS, ALL SADDLES, VALVES, PIPING, FITTINGS, CURB STOPS, METER ES, METER COUPLINGS, METER VAULTS AND COVERS SHALL BE FURNISHED AND INSTALLED E CONTRACTOR. THE WATER METERS WILL BE PROVIDED AND INSTALLED BY THE CITY OF YWOOD (NEW ACCOUNTS).

METER RELOCATIONS, ALL SADDLES, VALVES, PIPING, FITTINGS, CURB STOPS, METER ES, METER COUPLINGS, METER VAULTS AND COVERS SHALL BE FURNISHED AND INSTALLED E CONTRACTOR. THE EXISTING WATER METER TO BE RELOCATED AND INSTALLED BY RACTOR.

XISTING METERS ABUTTING THE RIGHT-OF-WAY THAT ARE BEING DISCONNECTED FROM ING MAINS AND RECONNECTED TO NEW MAINS, THE CONTRACTOR SHALL:

IT AND PLUG THE EXISTING SERVICE LINE AT THE MAIN AND AT THE METER, AND REMOVE E EXISTING BALL VALVE CURB STOP.

IRNISH AND INSTALL SERVICE SADDLE, CORPORATION STOP OR SERVICE VALVE AND VALVE DX, PIPING AND FITTINGS UP TO AND INCLUDING THE BALL VALVE CURB STOP.

ELEVATION AT THE TOP OF THE METER BOX SHALL MATCH THE ELEVATION OF THE BACK OF NALK, WHENEVER PRACTICAL.

ART OF THE SERVICE INSTALLATION, THE CONTRACTOR SHALL RESTORE THE RIGHT-OF-WAY ATCH EXISTING CONDITIONS, INCLUDING ROADWAY PAVEMENT, PAVEMENT MARKINGS RPMs, CONCRETE CURBS, SIDEWALKS, RAMPS (INCLUDING DETECTABLE WARNING ACE), SODDING, AND ALL OTHER IMPROVEMENTS REMOVED OR DAMAGED DURING THE ICE INSTALLATION.

JNPAVED AREAS, THE MINIMUM GROUND COVER ACCEPTED BY THE CITY IS SODDING.

| JED:  | 03/01/1994 | DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL | REVISED: 11/06/2017 |
|-------|------------|--|---------------------|
| WN:   | EAM        | WATER METER SERVICE NOTES FOR                  | DRAWING NO.         |
| ROVED | : XXX      | 5/8" THROUGH 2" METERS                         | W-07                |
|       |            |  |                     |





|  |   |  |                          |  | KEI  | TH   | 9:40:08 AM                                    |
|--|---|--|--------------------------|--|--|--|---|
| COUPLING   | ERTY TO BE SAME   |  |                          | 301 East /<br>B  | Atlantic Blvd.<br>Beach, FL 330  | Pompano<br>60<br>400   | 23, 2020                                      |
| DIAMETER AS MET<br>WHICH EVER IS LA  | FER OR 1" MIN<br>ARGER (TYP)  |  | -                        | PH: (954) 788-3400 Florida Certificate of Authorization: 7928  |  |  |   |
| '4" DUAL CHECK VA<br>ND SMALLER DIAM<br>IRS (TYP)  | ALVE FOR<br>IETER   |  |                          | License  | REVISIONS  |  | │   |
| x 3/4" DUAL CHECK<br>4" AND SMALLER DI<br>ETERS (TYP)  | ( VALVE FOR<br>IAMETER  |  |                          | DES  |  |  | S On Wednes                                   |
| <b>)</b>   |   |  |                          |  |  |  | l   |
| 1" (MIN) PVC<br>PROPERTY (   | : INSIDE<br>(TYP)   |  |                          |  |  |  | Plotte  |
| ES:<br>USE ONE SINGLE M<br>METER OR ONE DU<br>FOR TWO METERS.<br>5/8" METERS REQUI<br>1" METERS REQUIR<br>ALL PIPING TO BE H<br>ALL FITTINGS TO BI | IETER BOX PER<br>JAL METER BOX<br>JIRE 3/4" PIPING.<br>RE 1" PIPING.<br>HDPE.<br>E BRASS. |  |                          |  |  |  | -   |
| 3  |   |  |                          |  |  |  | -   |
| 1" x 3/4" DUAI<br>3/4" AND SMA<br>METERS (TYP)   | L CHECK VALVE FOR<br>ALLER DIAMETER<br>INSIDE<br>TYP)                                     |  | N<br>T<br>PL<br>AI<br>TH | PREL<br>IOT FOI<br>HESE PLAN<br>AND ARE SU<br>DURING T<br>RESPONSIBI<br>ANS PRIOR<br>L AGENCIE<br>IE PROJECT | <b>R CONSTI</b><br>S ARE NOT FULI<br>JBJECT TO REV<br>HE PERMITTING<br>ILITY FOR THE U<br>TO OBTAINING<br>S HAVING JURIS<br>WILL FALL SOL<br>USER. | PLAN<br>RUCTION<br>LY PERMITTED<br>ISIONS MADE<br>PROCESS.<br>ISE OF THESE<br>PERMITS FROM<br>SDICTION OVER<br>LELY UPON THE   | n<br>t  |
| ES:<br>JSE ONE METER BO  | X PER METER.  |  | IS                       |  | E:<br>RV:  | 03/17/21<br>MC   |   |
| /8" METERS REQUI<br>" METERS REQUIRE<br>LL FITTINGS TO BE  | re 3/4" piping.<br>: 1" piping.<br>Brass.   |  | DF                       | RAWN BY:   | B1.<br>:   | GR   | ,<br> <br>                                    |
|  |   |  | BI                       | D-CONTR  | ACT:   | JI   |   |
|  | VV-UO   |  | -                        |  | 33256<br>TE OF<br>NAL<br>MAL<br>IES A. THIELE<br>IDA REG. NO<br>FOR THE FIR  | The form the | ng Group\Engineering\Cadd\11074.01-CU-5XX.dwg |
|  |   |  |                          | P  |  |  | 01 - Pinnacle 441 Hollywood - Pinnacle Hous   |
| (LENGTH VARIES)  |   |  | P                        | ROJECT   | INACLE   | 441  | Drawing name: N:/11/11074.0                   |
|  |   |  |                          |  |  |  |   |
| P SERVICE SADDLE<br>OR BAND SADDLE<br>FOR C-900 PVC  |   |  | s                        | HEET TITL  | -E   |  |   |
| DOUBLE STRAF<br>FOR D.I.P.   |   |  |                          | WATE   | R AND S<br>DETAILS   | EWER   |   |
| DARD DETAIL  | REVISED: 11/06/2017   |  |                          |  |  |  | TAC   |
| ER<br>UAL  | drawing no.<br><b>W-08</b>  |  | SI                       |  | CU-5   | 505  |   |
|  |   |  |                          | JMBER  | 1107   | 4.01   | _l<br>N                                       |







METER TO STRUCTURE FOR 5/8"

**THROUGH 2" METERS** 

W-10

| NTS SHALL RE                    | LOCATED BETWEEN 4' AND 7' FROM THE FACE OF CURB  | D DOLLARDS.          |
|---------------------------------|--|----------------------|
| NTS SHALL NO                    | T BE LOCATED WITHIN A RADIUS OR WITHIN EDOT CLEAR DRI  | VING ZONE.           |
|                                 | RE SPACE IS RESTRICTED THE FIRE HYDRANT MAY BELOCATED  | 2' FROM THE          |
| IE CURB AS LOI                  | NG AS THERE IS A MINIMUM 4' UNOBSTRUCTED SIDEWALK BE<br>ANT BASE IS 4" OR LESS FROM GRADE IN ACCORDANCE WITH     | HIND THE             |
|                                 |  |                      |
| STS SHALL NOT                   | BE ALLOWED WITHIN FDOT R/W.  |                      |
| N FDOT R/W,                     | GUARD POSTS SHALL BE INSTALLED AS REQUIRED FOR SAFETY<br>OF PUBLIC UTILITIES, IN SIDEWALK, LOCATE GUARD POSTS AT | OR AS<br>THE FACE OF |
| ER AND 2'-6' LE<br>L AND CONGES | FT/RIGHT OF $\widehat{\mathbb{Q}}_{-}$ OF THE FIRE HYDRANT.EXTRA POSTS MAY BE                                    | REQUIRED IN          |
|                                 | SLAB AND CONCRETE GUARD POST FOOTINGS SHALL BE DIFF  | ERENT                |
|                                 |  |                      |
| YDRANT BONN<br>AINTED GREEN     | ET, OPERATING NUT, HOLD-DOWN NUT, PUMPER CAP AND H   | ose caps<br>R IN     |
| ICE WITH CITY                   | SPECIFICATIONS.  |                      |
|                                 |  |                      |
|                                 |  |                      |
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|                                 |  |                      |
| D: 03/01/1994                   | DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL   | REVISED: 06/08/2014  |
| N: EAM                          |  | DRAWING NO.          |
| OVED: XXX                       |  | W-13.1               |
|                                 |  |                      |





EAN

RΔWN

PPROVED:

| 2" CORP<br>STOP/BALL   |  |   | KEITH  |
|--|--|---|--|
|  |  | 301 East  | Atlantic Blvd. Pompand<br>Beach, FL 33060  |
|  | TO BACKFLOW  | P   | H: (954) 788-3400  |
| TY)  | DOUBLE CHECK   | Florida Ce<br>Licens                                  | rtificate of Authorization: 7928<br>ed Business Number: 6860   |
|  |  |   | REVISIONS  |
|  | )  | NO. DES   |  |
| GATE VALVE — RED   | DUCER  |   |  |
|  |  |   |  |
| PLAN   |  |   |  |
|  |  |   |  |
| -#-  | TO BACKFLOW<br>PREVENTER OR  |   |  |
|  | DOUBLE CHECK<br>VALVE (BY  |   |  |
|  |  |   |  |
| METER (BY CITY)  | ,<br>,   |   |  |
| ADJUSTABLE JACK  |  |   |  |
|  |  |   |  |
| 16"x16"x16" CONC.  |  | NOT FO  | LIMINARY PLAN  |
| COMPACTED SOIL   |  |   |  |
|  |  |   | THE PERMITTING PROCESS.  |
| ELEVATION  |  |   | TO OBTAINING PERMITS FR  |
|  |  | THE PROJEC  | T WILL FALL SOLELY UPON<br>USER.   |
|  |  | ISSUE DAT   | E: 03/17   |
| S PROVIDED BY THE CITY OF HOLLYWOOD.<br>THE REDUCER PRECEDING THE BACKFLOW PREV  | VENTER.  | DESIGNED  | BY:  |
| CH SIZE OF TEE AND STANDARD 2" CORP STOP O   | R BALL VALVE.  | CHECKED   | :<br>BY:   |
|  |  | BID-CONTR   | ACT:   |
| NT OF PUBLIC UTILITIES STANDARD DETAIL   | REVISED: 06/08/2014  |   |  |
| PICAL METER 3" DIAMETER  | DRAWING NO.  |   | A THIS item has been<br>digitally signed and   |
|  |  |   | . 33256 sealed by James A<br>. 05/14/2021  |
|  |  |   | <ul> <li>Printed copies of the second se</li></ul> |
|  |  | The st  | ATE OF   |
|  |  |   | NAL Fills verified on any<br>electronic copies.  |
| ND DISINFECTION NOTES:   |  | JAN   | NES A. THIELE, P.E.  |
| NG LINES SHALL BE MADE UNTIL THE PRESSURE /  | AND  | FLOR  | (FOR THE FIRM)   |
| EEN DEREORMED ON THE DRODOSED WATER MA   |  | CLIENT  |  |
| ED BY THE CITY OF HOLLYWOOD AND THE BROWA  | ARD  |   | a  |
| ED BY THE CITY OF HOLLYWOOD AND THE BROW   |  |   | .al  |
| RFORMED FOR 2 HOURS AT A CONSTANT PRESSU<br>TH RULE 62-555.330 (FAC) C600 AWWA LATEST  | URE OF   |   | 4  |
| RFORMED FOR 2 HOURS AT A CONSTANT PRESSU<br>TH RULE 62-555.330 (FAC) C600 AWWA LATEST<br>E SPECIFIED HEREIN AND IN SPECIFICATION SECTION<br>SINFECTION". PRESSURE TEST SHALL BE WITNES<br>LLOWABLE LEAKAGE SHALL BE I FSS THAN THE N   | URE OF<br>ION<br>SSED BY<br>IUMBER   |   |  |
| D BY THE CITY OF HOLLYWOOD AND THE BROWA<br>RFORMED FOR 2 HOURS AT A CONSTANT PRESSU<br>TH RULE 62-555.330 (FAC) C600 AWWA LATEST<br>E SPECIFIED HEREIN AND IN SPECIFICATION SECTI<br>ISINFECTION". PRESSURE TEST SHALL BE WITNES<br>LLOWABLE LEAKAGE SHALL BE LESS THAN THE NUR<br>RMINED BY THE FORMULA:   | URE OF<br>ION<br>SSED BY<br>IUMBER   |   |  |
| D BY THE CITY OF HOLLYWOOD AND THE BROW/<br>RFORMED FOR 2 HOURS AT A CONSTANT PRESSU<br>TH RULE 62-555.330 (FAC) C600 AWWA LATEST<br>E SPECIFIED HEREIN AND IN SPECIFICATION SECTI<br>ISINFECTION". PRESSURE TEST SHALL BE WITNES<br>LLOWABLE LEAKAGE SHALL BE LESS THAN THE NOR<br>RMINED BY THE FORMULA:<br>$L = \frac{S \times D \times \sqrt{P}}{148,000}$   | URE OF<br>ION<br>SSED BY<br>JUMBER   |   |  |
| The formed on the proposed water mp<br>D BY THE CITY OF HOLLYWOOD AND THE BROW/<br>RFORMED FOR 2 HOURS AT A CONSTANT PRESSU<br>TH RULE 62-555.330 (FAC) C600 AWWA LATEST<br>SPECIFIED HEREIN AND IN SPECIFICATION SECTI<br>ISINFECTION". PRESSURE TEST SHALL BE WITNES<br>LLOWABLE LEAKAGE SHALL BE LESS THAN THE NER<br>MINED BY THE FORMULA:<br>$L = \frac{S \times D \times \sqrt{P}}{148,000}$   | URE OF<br>ION<br>SSED BY<br>JUMBER   |   |  |
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| RFORMED FOR 2 HOURS AT A CONSTANT PRESSU<br>TH RULE 62-555.330 (FAC) C600 AWWA LATEST<br>E SPECIFIED HEREIN AND IN SPECIFICATION SECTI<br>ISINFECTION". PRESSURE TEST SHALL BE WITNES<br>LLOWABLE LEAKAGE SHALL BE LESS THAN THE N<br>RMINED BY THE FORMULA:<br>$L = \frac{S \times D \times \sqrt{P}}{148,000}$ N GALLONS PER HOUR.<br>TESTED.<br>F THE PIPE BEING TESTED.<br>RE IN POUNDS PER SQUARE INCH.<br>PROPOSED WATER MAIN SHALL BE TESTED, IN LE<br>EST.   | URE OF<br>TON<br>SSED BY<br>JUMBER   | PROJECT   |  |
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| REFORMED FOR 2 HOURS AT A CONSTANT PRESSU<br>TH RULE 62-555.330 (FAC) C600 AWWA LATEST<br>E SPECIFIED HEREIN AND IN SPECIFICATION SECTI<br>DISINFECTION". PRESSURE TEST SHALL BE WITNES<br>LLOWABLE LEAKAGE SHALL BE LESS THAN THE N<br>RMINED BY THE FORMULA:<br>$L = \frac{S \times D \times \sqrt{P}}{148,000}$ N GALLONS PER HOUR.<br>TESTED.<br>F THE PIPE BEING TESTED.<br>RE IN POUNDS PER SQUARE INCH.<br>PROPOSED WATER MAIN SHALL BE TESTED, IN LE<br>TEST.<br>BE DISINFECTED IN ACCORDANCE WITH THE LAT<br>ARD C651 AND BACTERIOLOGICAL TESTED FOR TV<br>INCE WITH SPECIFICATION SECTION 15995, "PIPEL  | URE OF<br>TON<br>SSED BY<br>NUMBER<br>ENGTHS<br>TEST<br>WO<br>ELINE  | PROJECT   | NNACLE 441   |
| EXAMPLE FORMULD ON THE PROPOSED WATER MIP<br>ED BY THE CITY OF HOLLYWOOD AND THE BROW/<br>ERFORMED FOR 2 HOURS AT A CONSTANT PRESSU<br>ITH RULE 62-555.330 (FAC) C600 AWWA LATEST<br>E SPECIFIED HEREIN AND IN SPECIFICATION SECTION<br>DISINFECTION". PRESSURE TEST SHALL BE WITNES<br>ALLOWABLE LEAKAGE SHALL BE LESS THAN THE N<br>RMINED BY THE FORMULA:<br>$L = \frac{S \times D \times \sqrt{P}}{148,000}$ N GALLONS PER HOUR.<br>TESTED.<br>OF THE PIPE BEING TESTED.<br>RE IN POUNDS PER SQUARE INCH.<br>PROPOSED WATER MAIN SHALL BE TESTED, IN LE<br>TEST.<br>BE DISINFECTED IN ACCORDANCE WITH THE LAT<br>ARD C651 AND BACTERIOLOGICAL TESTED FOR TW<br>ANCE WITH SPECIFICATION SECTION 15995, "PIPEL<br>BE REQUESTED AND PAID FOR BY THE CONTRACTOR  | URE OF<br>TON<br>SSED BY<br>JUMBER<br>ENGTHS<br>TEST<br>WO<br>ELINE  | PROJECT   | NNACLE 441   |
| REFORMED FOR 2 HOURS AT A CONSTANT PRESSU<br>RFORMED FOR 2 HOURS AT A CONSTANT PRESSU<br>TH RULE 62-555.330 (FAC) C600 AWWA LATEST<br>E SPECIFIED HEREIN AND IN SPECIFICATION SECTION<br>DISINFECTION". PRESSURE TEST SHALL BE WITNES<br>ALLOWABLE LEAKAGE SHALL BE LESS THAN THE N<br>RMINED BY THE FORMULA:<br>$L = \frac{S \times D \times \sqrt{P}}{148,000}$ N GALLONS PER HOUR.<br>TESTED.<br>OF THE PIPE BEING TESTED.<br>RE IN POUNDS PER SQUARE INCH.<br>PROPOSED WATER MAIN SHALL BE TESTED, IN LE<br>TEST.<br>BE DISINFECTED IN ACCORDANCE WITH THE LAT<br>ARD C651 AND BACTERIOLOGICAL TESTED FOR TW<br>ANCE WITH SPECIFICATION SECTION 15995, "PIPEI<br>BE REQUESTED AND PAID FOR BY THE CONTRACTOR<br>TLY HIRE A TESTING LABORATORY CERTIFIED BY THE<br>TH IN ORDER TO COLLECT AND TEST WATER SAME   | URE OF<br>TON<br>SSED BY<br>NUMBER<br>ENGTHS<br>TEST<br>WO<br>ELINE<br>FOR.<br>HE  | PROJECT   | NNACLE 441   |
| REPORTED FOR 2 HOURS AT A CONSTANT PRESSU<br>TH RULE 62-555.330 (FAC) C600 AWWA LATEST<br>SPECIFIED HEREIN AND IN SPECIFICATION SECTI<br>ISINFECTION". PRESSURE TEST SHALL BE WITNES<br>LLOWABLE LEAKAGE SHALL BE LESS THAN THE N<br>MINED BY THE FORMULA:<br>$L = \frac{S \times D \times \sqrt{P}}{148,000}$ I GALLONS PER HOUR.<br>TESTED.<br>F THE PIPE BEING TESTED.<br>E IN POUNDS PER SQUARE INCH.<br>PROPOSED WATER MAIN SHALL BE TESTED, IN LE<br>EST.<br>BE DISINFECTED IN ACCORDANCE WITH THE LAT<br>ARD C651 AND BACTERIOLOGICAL TESTED FOR TW<br>NCE WITH SPECIFICATION SECTION 15995, "PIPEI<br>F REQUESTED AND PAID FOR BY THE CONTRACTO<br>LY HIRE A TESTING LABORATORY CERTIFIED BY TH<br>H IN ORDER TO COLLECT AND TEST WATER SAMI<br>SYSTEM TO BE PLACED INTO SERVICE. SAMPLE<br>CAL ANALYSES SHALL BE PERFORMED IN ACCORD  | URE OF<br>TON<br>SSED BY<br>JUMBER<br>ENGTHS<br>TEST<br>WO<br>ELINE<br>FOR.<br>HE<br>IPLES<br>DANCE  | PROJECT   |  |
| RECEIVED IN THE PROPOSED WATER MIP<br>D BY THE CITY OF HOLLYWOOD AND THE BROW/<br>REFORMED FOR 2 HOURS AT A CONSTANT PRESSU<br>TH RULE 62-555.330 (FAC) C600 AWWA LATEST<br>SPECIFIED HEREIN AND IN SPECIFICATION SECTI<br>ISINFECTION". PRESSURE TEST SHALL BE WITNES<br>LLOWABLE LEAKAGE SHALL BE LESS THAN THE N<br>MINED BY THE FORMULA:<br>$L = \frac{S \times D \times \sqrt{P}}{148,000}$<br>I GALLONS PER HOUR.<br>TESTED.<br>THE PIPE BEING TESTED.<br>THE PIPE BEING TES | URE OF<br>TON<br>SSED BY<br>NUMBER<br>ENGTHS<br>TEST<br>WO<br>ELINE<br>FOR.<br>HE<br>IPLES<br>DANCE  | PROJECT<br>PI<br>SHEET TIT                            |  |
| RECEIVED FOR 2 HOURS AT A CONSTANT PRESSU<br>TH RULE 62-555.330 (FAC) C600 AWWA LATEST<br>SPECIFIED HEREIN AND IN SPECIFICATION SECTI<br>ISINFECTION". PRESSURE TEST SHALL BE WITNES<br>LLOWABLE LEAKAGE SHALL BE LESS THAN THE N<br>MINED BY THE FORMULA:<br>$L = \frac{S \times D \times \sqrt{P}}{148,000}$ I GALLONS PER HOUR.<br>TESTED.<br>F THE PIPE BEING TESTED.<br>RE IN POUNDS PER SQUARE INCH.<br>PROPOSED WATER MAIN SHALL BE TESTED, IN LE<br>EST.<br>BE DISINFECTED IN ACCORDANCE WITH THE LAT<br>AND C651 AND BACTERIOLOGICAL TESTED FOR TW<br>NCE WITH SPECIFICATION SECTION 15995, "PIPE<br>E REQUESTED AND PAID FOR BY THE CONTRACTO<br>LY HIRE A TESTING LABORATORY CERTIFIED BY TH<br>H IN ORDER TO COLLECT AND TEST WATER SAMI<br>SYSTEM TO BE PLACED INTO SERVICE. SAMPLE<br>CAL ANALYSES SHALL BE PERFORMED IN ACCORD<br>55.340 AND 62-555.330 (FAC), AS WELL AS ALL<br>D COUNTY HEALTH DEPARTMENT PERMIT.<br>M SHALL NOT BE CONSIDERED COMPLETE AND R   | URE OF<br>TON<br>SSED BY<br>JUMBER<br>ENGTHS<br>TEST<br>WO<br>ELINE<br>TOR.<br>HE<br>IPLES<br>DANCE  | PROJECT<br>PII<br>SHEET TIT                           |  |
| RECEIVELY OF HOLLYWOOD AND THE BROW/<br>REFORMED FOR 2 HOURS AT A CONSTANT PRESSU<br>TH RULE 62-555.330 (FAC) C600 AWWA LATEST<br>SPECIFIED HEREIN AND IN SPECIFICATION SECTI<br>SINFECTION". PRESSURE TEST SHALL BE WITNES<br>LLOWABLE LEAKAGE SHALL BE LESS THAN THE N<br>MINED BY THE FORMULA:<br>$L = \frac{S \times D \times \sqrt{P}}{148,000}$<br>I GALLONS PER HOUR.<br>TESTED.<br>F THE PIPE BEING TESTED.<br>THE PIPE BEING TESTED.<br>THE PIPE BEING TESTED.<br>TOUNDS PER SQUARE INCH.<br>PROPOSED WATER MAIN SHALL BE TESTED, IN LE<br>EST.<br>BE DISINFECTED IN ACCORDANCE WITH THE LAT<br>ARD C651 AND BACTERIOLOGICAL TESTED FOR TV<br>NCE WITH SPECIFICATION SECTION 15995, "PIPE<br>E REQUESTED AND PAID FOR BY THE CONTRACTAL<br>CAL ANALYSES SHALL BE PERFORMED IN ACCORDING<br>SYSTEM TO BE PLACED INTO SERVICE. SAMPLE<br>CAL ANALYSES SHALL BE PERFORMED IN ACCORDING<br>SYSTEM TO BE PLACED INTO SERVICE. SAMPLE<br>CAL ANALYSES SHALL BE PERFORMED IN ACCORDING<br>SYSTEM TO BE PLACED INTO SERVICE. SAMPLE<br>CAL ANALYSES SHALL BE PERFORMED IN ACCORDING<br>SYSTEM TO BE PLACED INTO SERVICE. SAMPLE<br>CAL ANALYSES SHALL BE PERFORMED IN ACCORDING<br>SYSTEM TO BE PLACED INTO SERVICE. SAMPLE<br>CAL ANALYSES SHALL BE PERFORMED IN ACCORD<br>SOLUCIEST AND BE CONSIDERED COMPLETE AND RECESSFUL TEST RESULTS ARE OBTAINED FOR ALL  | URE OF<br>TON<br>SSED BY<br>JUMBER<br>ENGTHS<br>ENGTHS<br>TEST<br>WO<br>ELINE<br>FOR.<br>HE<br>IPLES<br>DANCE<br>READY<br>. TESTS                                      | PROJECT<br>PI<br>SHEET TIT                            |  |
| A reference of the proposed water with the proposed water with proposed water with pressure the proposed water with the pressure test shall be written pressure test press than the pressure test press. The proposed water main pressed water pressed water pressed water pressed water pressed water pressed water pressed written pressed water pressed  | URE OF<br>TON<br>SSED BY<br>JUMBER<br>ENGTHS<br>ENGTHS<br>TEST<br>WO<br>ELINE<br>TOR.<br>HE<br>IPLES<br>DANCE<br>READY<br>_ TESTS                                      | PROJECT<br>PI<br>SHEET TIT<br>WATE                    | NNACLE 441   |
| Alternative control of the proposed water with the observed of the control of the proposed water with the proposed water of the control of the proposed water of the proposed  | URE OF<br>TON<br>SSED BY<br>NUMBER<br>ENGTHS<br>TEST<br>WO<br>ELINE<br>FOR.<br>HE<br>IPLES<br>DANCE<br>READY<br>- TESTS  | PROJECT<br>PII<br>SHEET TIT<br>WATE                   | ANACLE 441   |
| A constrained for the proposed water with the proposed water with the proposed water with the proposed water of the proposed   | URE OF<br>TON<br>SSED BY<br>JUMBER<br>ENGTHS<br>ENGTHS<br>TEST<br>WO<br>ELINE<br>FOR.<br>HE<br>IPLES<br>DANCE<br>READY<br>_ TESTS                                      | PROJECT<br>PI<br>SHEET TIT<br>WATE                    | ANACLE 441   |
| LEN PERFORMED ON THE PROPOSED WATERWIP<br>D BY THE CITY OF HOLLYWOOD AND THE BROW/<br>RFORMED FOR 2 HOURS AT A CONSTANT PRESSU<br>TH RULE 62-555.330 (FAC) C600 AWWA LATEST<br>SPECIFIED HEREIN AND IN SPECIFICATION SECTI<br>ISINFECTION". PRESSURE TEST SHALL BE WITNES<br>LLOWABLE LEAKAGE SHALL BE LESS THAN THE N<br>MINED BY THE FORMULA:<br>L = $S \times D \times \sqrt{P}$<br>148,000<br>I GALLONS PER HOUR.<br>TESTED.<br>F THE PIPE BEING TESTED.<br>& IN POUNDS PER SQUARE INCH.<br>PROPOSED WATER MAIN SHALL BE TESTED, IN LE<br>EST.<br>BE DISINFECTED IN ACCORDANCE WITH THE LAT<br>ARD C651 AND BACTERIOLOGICAL TESTED FOR TV<br>NCE WITH SPECIFICATION SECTION 15995, "PIPE<br>E REQUESTED AND PAID FOR BY THE CONTRACTO<br>LY HIRE A TESTING LABORATORY CERTIFIED BY TH<br>H IN ORDER TO COLLECT AND TEST WATER SAMI<br>SYSTEM TO BE PLACED INTO SERVICE. SAMPLE<br>CAL ANALYSES SHALL BE PERFORMED IN ACCORD<br>i5.340 AND 62-555.330 (FAC), AS WELL AS ALL<br>D COUNTY HEALTH DEPARTMENT PERMIT.<br>M SHALL NOT BE CONSIDERED COMPLETE AND R<br>CCESSFUL TEST RESULTS ARE OBTAINED FOR ALL   | ARD<br>URE OF<br>TON<br>SSED BY<br>UMBER<br>ENGTHS<br>ENGTHS<br>TEST<br>WO<br>ELINE<br>TOR.<br>TEST<br>WO<br>ELINE<br>TOR.<br>HE<br>IPLES<br>DANCE<br>READY<br>_ TESTS | PROJECT<br>PII<br>SHEET TIT<br>WATE                   | ANACLE 441   |
| ELEVENTIC ON THE PROPOSED WATCH WP<br>D BY THE CITY OF HOLLYWOOD AND THE BROW/<br>RFORMED FOR 2 HOURS AT A CONSTANT PRESSI<br>TH RULE 62-555.330 (FAC) C600 AWWA LATEST<br>SPECIFIED HEREIN AND IN SPECIFICATION SECTI<br>ISINFECTION". PRESSURE TEST SHALL BE WITNES<br>LLOWABLE LEAKAGE SHALL BE LESS THAN THE N<br>MINED BY THE FORMULA:<br>L = $\frac{S \times D \sqrt{P}}{148,000}$<br>I GALLONS PER HOUR.<br>TESTED.<br>F THE PIPE BEING TESTED.<br>WITH FORMULA:<br>L = $\frac{S \times D \sqrt{P}}{148,000}$<br>I GALLONS PER HOUR.<br>TESTED.<br>F THE PIPE BEING TESTED.<br>WITH SPECIFIC TO IN ACCORDANCE WITH THE LAT<br>ROPOSED WATER MAIN SHALL BE TESTED, IN LE<br>EST.<br>BE DISINFECTED IN ACCORDANCE WITH THE LAT<br>RD C651 AND BACTERIOLOGICAL TESTED FOR TN<br>NCE WITH SPECIFICATION SECTION 15995, "PIPE<br>E REQUESTED AND PAID FOR BY THE CONTRACT<br>LY HIRE A TESTING LABORATORY CERTIFIED BY TH<br>H IN ORDER TO COLLECT AND TEST WATER SAMILE<br>SYSTEM TO BE PLACED INTO SERVICE. SAMPLE<br>CAL ANALYSES SHALL BE PERFORMED IN ACCORE<br>IS.340 AND 62-555.330 (FAC), AS WELL AS ALL<br>D COUNTY HEALTH DEPARTMENT PERMIT.<br>VI SHALL NOT BE CONSIDERED COMPLETE AND R<br>CCESSFUL TEST RESULTS ARE OBTAINED FOR ALL  | ARD<br>URE OF<br>TON<br>SSED BY<br>JUMBER<br>ENGTHS<br>TEST<br>WO<br>ELINE<br>FOR.<br>HE<br>IPLES<br>DANCE<br>READY<br>_ TESTS<br>DANCE                                | PROJECT<br>PII<br>SHEET TIT<br>WATE                   | ANACLE 441   |
| ELLY PERFORMED FOR 2 HOURS AT A CONSTANT PRESSU<br>TH RULE 62-555.330 (FAC) C600 AWWA LATEST<br>E SPECIFIED HEREIN AND IN SPECIFICATION SECTI<br>ISINFECTION". PRESSURE TEST SHALL BE WITNES<br>LLOWABLE LEAKAGE SHALL BE LESS THAN THE N<br>RMINED BY THE FORMULA:<br>L = $\frac{S \times D \times \sqrt{P}}{148,000}$<br>N GALLONS PER HOUR.<br>TESTED.<br>F THE PIPE BEING TESTED.<br>RE IN POUNDS PER SQUARE INCH.<br>PROPOSED WATER MAIN SHALL BE TESTED, IN LE<br>EST.<br>BE DISINFECTED IN ACCORDANCE WITH THE LAT<br>ARD C651 AND BACTERIOLOGICAL TESTED FOR TV.<br>NCE WITH SPECIFICATION SECTION 15995, "PIPE<br>BE REQUESTED AND PAID FOR BY THE CONTRACT"<br>LY HIRE A TESTING LABORATORY CERTIFIED BY TH<br>TH IN ORDER TO COLLECT AND TEST WATER SAMI<br>SYSTEM TO BE PLACED INTO SERVICE. SAMPLE<br>CAL ANALYSES SHALL BE PERFORMED IN ACCORE<br>55.340 AND 62-55.330 (FAC), AS WELL AS ALL<br>RD COUNTY HEALTH DEPARTMENT PERMIT.<br>M SHALL NOT BE CONSIDERED COMPLETE AND FO<br>CESSFUL TEST RESULTS ARE OBTAINED FOR ALL<br>WATER MAIN TESTING AND<br>DISINFECTION NOTES  | ARD<br>URE OF<br>TON<br>SSED BY<br>UMBER<br>ENGTHS<br>TEST<br>WO<br>ELINE<br>FOR.<br>HE<br>IPLES<br>DANCE<br>READY<br>. TESTS<br>DANCE<br>READY<br>. TESTS             | PROJECT<br>PI<br>SHEET TIT<br>WATE<br>SHEET<br>NUMBER | ANACLE 441   |













| R                     |  | KEI  | TH  |     |
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| 301                   | East A<br>Be<br>PH   | tlantic Blvd.<br>each, FL 3306<br>: (954) 788-34   | Pompano<br>60<br>60   |     |
| FIO                   | Licensed   | Business Numbe   | ation: 7928<br>er: 6860   |     |
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| NO.                   | DESC   | RIPTION  | DATE  |     |
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| <b>NU</b><br>THES     | E PLANS  |  | Y PERMITTED   |     |
|                       |  |  | SIONS MADE  |     |
| RESF                  | PONSIBIL   |  | SE OF THESE   |     |
| PLANS                 | PRIOR 1  | O OBTAINING P  | PERMITS FROM  |     |
| THE P                 | ROJECT   | WILL FALL SOLI   | ELY UPON THE  |     |
|                       |  |  | 02/47/24  |     |
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| , II                  | JAMES/   | A THIEL TH   | nis item has been<br>gitally signed and   |     |
|                       | No. 3  | 33256  | aled by James A<br>hiele, P.E. on   |     |
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| CLIEI                 |  | E OF<br>ALLING<br>SA. THIELE<br>DA REG. NO.<br>OR THE FIRM                                   | 5/14/2021<br>inted copies of this<br>boument are not<br>nsidered signed<br>d sealed and the<br>grature must be<br>rified on any<br>ectronic copies.<br>, P.E.<br>33256<br>1)  |     |
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| CLIEI                 |  | E OF<br>IDA<br>SA. THIELE<br>DA REG. NO.<br>OR THE FIRM                                      | 5/14/2021<br>inted copies of this<br>boument are not<br>nsidered signed<br>di sealed and the<br>grature must be<br>rified on any<br>ectronic copies.<br>, P.E.<br>33256<br>1)   |     |
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| CLIEI                 |  | TE OF  | 5/14/2021<br>inted copies of this<br>boument are not<br>nsidered signed<br>di sealed and the<br>grature must be<br>rified on any<br>ectronic copies.<br>, P.E.<br>33256<br>1)   |     |
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| CLIEI<br>PROJ<br>SHEE |  | A CLE  | 5/14/2021<br>inted copies of this<br>incument are not<br>insidered signed<br>disealed and the<br>prature must be<br>rified on any<br>ectronic copies.<br><b>P.E.</b><br><b>33256</b><br><b>1</b><br><b>441</b><br><b>EWER</b> |     |
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| CLIEI<br>PROJ<br>SHEE |  | A THE FIRM   | 5/14/2021<br>inted copies of this<br>risidered signed<br>d sealed and the<br>pritied on any<br>ectronic copies.<br>, P.E.<br>33256<br>)<br>441<br>EVVER   |     |
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|                       |  | A CU-5   | 5/14/2021<br>inted copies of this<br>raidered signed<br>disealed and the<br>prature must be<br>rified on any<br>ectronic copies.<br><b>P.E.</b><br><b>33256</b><br><b>441</b><br><b>EWER</b>                                  |     |
|                       |  | A CU-5   | 5/14/2021<br>inted copies of this<br>raidered signed<br>disealed and the<br>prature must be<br>rified on any<br>cornic copies.<br><b>P.E.</b><br>33256<br>7<br>441<br>EVVER   |     |
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|     | N       GRAPHIC SCALE         0       30       60         SCALE: 1" = 30 '         NOTE: PRINTED DRAWING SIZE         MAY HAVE CHANGED FROM       ORIGINAL. VERIFY SCALE USING         BAR SCALE ABOVE.       BAR SCALE ABOVE.   | <b>XIEXA CONTRACT OF CONTRACT OF</b> |
|-----|--|--|
|     |  | REVISIONS NO. DESCRIPTION DATE   |
|     |  |  |
| 1.  | EXISTING NO PARKING SIGNS WITHIN THE RIGHT OF WAY<br>SWALE SHALL BE REMOVED IN AREAS OF PROPOSED<br>CURBING.   |  |
| 2.  | ALL EXISTING TRAFFIC CONTROL SIGNAGE AND<br>PAVEMENT MARKINGS IN CONFLICT WITH THE<br>PROPOSED TRAFFIC CONTROL SIGNAGE AND PAVEMENT<br>MARKINGS WILL BE REMOVED OR RELOCATED BY THE<br>CONTRACTOR.   |  |
| 3.  | ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH<br>THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES<br>(M.U.T.C.D.), CURRENT BROWARD COUNTY TRAFFIC<br>ENGINEERING DIVISION STANDARDS (CURRENT<br>EDITION), AND THE CITY OF HOLLYWOOD'S ZONING AND<br>LAND DEVELOPMENT REGULATIONS.  | PRELIMINARY PLAN<br>NOT FOR CONSTRUCTION<br>THESE PLANS ARE NOT FULLY PERMITTED  |
| 4.  | MARKINGS SHALL CONFORM TO FDOT STANDARD<br>SPECIFICATIONS, SECTION 711, DESIGN STANDARDS,<br>INDEX 17346, AND THE BROWARD COUNTY TRAFFIC<br>ENGINEERING DIVISION STANDARDS AND<br>SPECIFICATIONS (CURRENT EDITION).  | AND ARE SUBJECT TO REVISIONS MADE<br>DURING THE PERMITTING PROCESS.<br>RESPONSIBILITY FOR THE USE OF THESE<br>PLANS PRIOR TO OBTAINING PERMITS FROM<br>ALL AGENCIES HAVING JURISDICTION OVER<br>THE PROJECT WILL FALL SOLELY UPON THE  |
| 5.  | ALL ON-SITE MARKINGS SHALL BE PAINT EXCEPT 24"<br>SOLID WHITE STOP BAR WHICH SHALL BE<br>THERMOPLASTIC OR AS INDICATED ON PLANS.   | USER.<br>ISSUE DATE: 03/17/21<br>DESIGNED BY: MC   |
| 6.  | VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF SIGN POSTS.  | DRAWN BY: GR<br>CHECKED BY: JT   |
| 7.  | ALL PAVEMENT MARKINGS AND SIGNING DAMAGED<br>DURING CONSTRUCTION, SHALL BE RESTORED TO<br>BROWARD COUNTY TRAFFIC ENGINEERING DIVISION<br>STANDARDS (CURRENT ADDITION).   | BID-CONTRACT:  |
| 8.  | THE CONTRACTOR SHALL PROVIDE A COPY OF THEIR<br>BROWARD COUNTY CERTIFICATE OF COMPETENCY<br>PRIOR TO SUBMITTING FINAL INSPECTION REQUEST TO<br>BROWARD COUNTY TRAFFIC ENGINEERING DIVISION.  | No. 33256<br>No. 33256<br>This item has been<br>digitally signed and<br>sealed by James A<br>Thiele, P.E. on<br>05/14/2021<br>Printed copies of this   |
| 9.  | ALL SIGNS TO FOLLOW FDOT INDEX 17302 - CASE V<br>(LOCATION IN BUSINESS OR RESIDENTIAL AREAS) AND<br>INDEX 11860 - MIN. INSTALLATION REQUIREMENTS.  | STATE OF<br>COR IDA<br>SONAL   |
| 10. | ALL FDC SIGNAGE SHALL BE INSTALLED PURSUANT TO<br>CITY STANDARDS AND SHALL HAVE RED LETTERING,<br>NOT LESS THAN 3 INCHES IN HEIGHT, ON WHITE<br>BACKGROUND. EACH SIGN SHALL BE 18 INCHES WIDE<br>BY 24 INCHES IN HEIGHT, AND SHALL BE CONSISTENT<br>WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL<br>DEVICES (CURRENT EDITION). | JAMES A. THIELE, P.E.<br>FLORIDA REG. NO. 33256<br>(FOR THE FIRM)  |
| 11. | ALL FIRE HYDRANTS REQUIRE BLUE REFLECTORS IN THE   |  |
| 12. | FIRE DEPARTMENT CONNECTION PER CITY<br>REQUIREMENTS, REFER TO PLUMBING PLAN. INSTALL<br>"FIRE DEPARTMENT CONNECTION, NO PARKING" SIGN TO<br>BE FDOT AND CITY COMPLIANT AS REQUIRED.  |  |
| 13. | STOP BARS SHALL BE A MINIMUM OF 4 FEET BEHIND THE CROSSWALK.   | PINNACLE<br>COMMUTTED TO EXCELLENCE  |
|     |  | PROJECT  |
|     | LEGEND:  | PINNACLE 441   |
|     | 6" DOUBLE YELLOW STRIPING  |  |
|     | 24" WHITE STOP BAR   |  |
|     | ■ R1-1 30" x 30" 'STOP' SIGN   | SHEET TITLE  |
|     | 6" 10'-30' SKIP YELLOW   | PAVEMENT MARKING<br>AND SIGNAGE PLAN   |
|     |  |  |
|     |  | NUMBER CM-101  |
|     |  | NUMBER 11074.01  |



|       | 5                               |                  |                 | -  |  |  |
|-------|---------------------------------|------------------|-----------------|--|--|--|
|       |                                 |                  |                 | 301 East     301 East     PH     Florida Cer     License   | KEI<br>Atlantic Blvd.<br>Beach, FL 3306<br>1: (954) 788-34<br>tificate of Authorized<br>Business Numb<br>REVISIONS<br>CRIPTION                             | Pompano<br>60<br>400<br>zation: 7928<br>er: 6860<br>DATE   |
|       | Far side of intersection detail |                  |                 | PREL<br>NOT FO<br>THESE PLAN<br>AND ARE SI<br>DURING T<br>RESPONSIB<br>PLANS PRIOR<br>ALL AGENCIE<br>THE PROJECT<br>ISSUE DATE<br>DESIGNED | IMINARY<br>R CONSTE<br>S ARE NOT FULL<br>JBJECT TO REVI<br>HE PERMITTING<br>ILITY FOR THE UT<br>TO OBTAINING F<br>S HAVING JURIS<br>WILL FALL SOL<br>USER. | PLAN<br>PLAN<br>RUCTION<br>PERMITTED<br>SIONS MADE<br>PROCESS.<br>SE OF THESE<br>PERMITS FROM<br>DICTION OVER<br>ELY UPON THE<br>ELY UPON THE<br>03/17/21<br>MC              |
| LANES |                                 |                  |                 | DRAWN BY<br>CHECKED E  | 3Y:  | GR<br>JT   |
|       | BICYCLE MARKINGS                | index<br>711-002 | sheet<br>2 of 2 |  |  | his item has been<br>igitally signed and<br>ealed by James A   |
|       |                                 |                  |                 | No.<br>STA   | 33256<br>TE OF<br>RIDA<br>MALINI<br>ES A. THIELE   | hiele, P.E. on<br>D5/14/2021<br>rinted copies of this<br>ocument are not<br>onsidered signed<br>nd sealed and the<br>ignature must be<br>erified on any<br>lectronic copies. |
|       |                                 |                  |                 |  |  | . 33256<br>M)  |
|       |                                 |                  |                 | PROJECT  | INACLE   | 441  |
|       |                                 |                  |                 | SHEET TITI   | .E   |  |
|       |                                 |                  |                 | PAVEI  | MENT MA<br>ID SIGNA<br>DETAILS   | RKING<br>GE  |
|       |                                 |                  |                 | SHEET  |  | -00  |
|       |                                 |                  |                 | NUMBER   |  | 02   |





|      |     | REVISIONS |    |         |     | REVISIONS |     |           |                                      |
|------|-----|-----------|----|---------|-----|-----------|-----|-----------|--------------------------------------|
| DATE | NO. | REMARKS   | BY | DATE    | NO. | REMARKS   | BY  |           | IRANSPORIATION DEPARTMENT            |
|      |     |           |    |         |     |           |     | BROWVARD  | Service & Capital Planning           |
|      |     |           |    |         |     |           |     | COUNTY    |                                      |
|      |     |           |    |         |     |           |     | 1 ans sit | 1 North University Drive, Ste 3400A, |
|      |     |           |    |         |     |           |     | 1 avrosu  | Plantation FL 33324                  |
|      |     |           |    | 4-29-21 | 1   |           | NRH | -         |                                      |

441 PINNACLE BS 1308 SB AND BS 648 EB SR 7 AND JOHNSON ST. SHEET NO.

![](_page_21_Figure_0.jpeg)

NOT TO SCALE

- 2" X 4" P.T. OR TERMITE TREATED WOOD POSTS AND FRAME. USE #3 REBAR IN ASPHALT AREAS OR AS REQUIRED

EXISTING ROOT ZONE TO BE PROTECTED

POSTS TO BE DRIVEN INTO GROUND AVOIDING PRIMARY HORIZONTAL ROOTS

EXISTING GRADE MEETING ROOT COLLAR TO BE PRESERVED

- MAINTAIN POSTS VERTICAL IF TERRAIN IS SLOPED

EXISTING TREES TO REMAIN

BELOW GRADE - THREE ROWS OF SPLIT RAIL FENCING (2"x4") TO BE PLACED AROUND ALL

- 2" X 4" P.T. OR TERMITE TREATED WOOD POSTS AND FRAME EXTEND 2' MINIMUM

- EXISTING TREE OR PALM TO REMAIN (PROTECTED DURING CONSTRUCTION)

FENCE SHALL BE LOCATED MIN. 1' BEYOND CANOPY DRIP LINE PROJECTION. MORE PROTECTION MAY BE DEEMED NECESSARY FOR LARGE SPECIMEN

| EE #   | COMMON NAME        | SCIENTIFIC NAME              | DBH<br>IN. | <u>НТ.</u><br>FT. | CNPY.<br>FT. | TREE %<br>CONDITION | TREE<br>DISPOSITION | COMMENTS  |  |  |
|--------|--------------------|------------------------------|------------|-------------------|--------------|---------------------|---------------------|---|--|--|
| 1 AI   | RBORVITAE          | "Thuja occidentalis"         | 12         | 20                | 12           | N/A                 | REMOVE              | OVERGROWN SHRUB   |  |  |
| 2 GI   | UMBO LIMBO         | "Bursera símaruba"           | 7          | 14                | 16           | 65                  | REMOVE              | POOR FORM   |  |  |
| 3 P/   | ΑΡΑΥΑ              | Carica papaya                | 4          | 10                | 3            | N/A                 | REMOVE              | HERBACEOUS FRUIT  |  |  |
| 4 P/   | ΑΡΑΥΑ              | Carica papaya                | 4          | 10                | 3            | N/A                 | REMOVE              | HERBACEOUS FRUIT  |  |  |
| 5 G    | UMBO LIMBO         | "Bursera simaruba"           | 4          | 16                | 8            | 60                  | REMOVE              | POOR FORM   |  |  |
| 6 S    | TRANGLER FIG       | "Fícus aurea"                | 8          | 12                | 15           | 60                  | REMOVE              | GROWING IN FENCE  |  |  |
| 7 GI   | UMBO LIMBO         | "Bursera simaruba"           | 7          | 25                | 15           | 60                  | REMOVE              | CO-D, POOR FORM   |  |  |
| 8 B/   | ANANA              | "Musa spp."                  | clump      | 10                | 10           | N/A                 | REMOVE              | HERBACEOUS FRUIT  |  |  |
| 9 Af   | RECA PALM          | "Chrysalidocarpus lutescens" | clump      | 12                | 8            | N/A                 | REMOVE              | CLUMPING PALM   |  |  |
| 0 AI   | RECA PALM          | "Chrysalidocarpus lutescens" | clump      | 12                | 8            | N/A                 | REMOVE              | CLUMPING PALM   |  |  |
| 1 SE   | EAGRAPE            | "Coccoloba uvifera"          | 13         | 25                | 25           | 50                  | REMOVE              | B-DMG, DB, POOR PRUNING                                   |  |  |
| 2 N    | ORFOLK ISLAND PINE | "Araucaría heterophylla"     | 6,6,8,12   | 50                | 20           | N/A                 | REMOVE              | MULTI-STEM, RE-SPROUTS, POTENTIAL HAZARD                  |  |  |
| 3 N    | ORFOLK ISLAND PINE | "Araucaria heterophylla"     | 6,8,12     | 50                | 20           | N/A                 | REMOVE              | MULTI-STEM, RE-SPROUTS, POTENTIAL HAZARD                  |  |  |
| 4 M    | ULLBERRY           | Moras spp.                   | 9          | 16                | 20           | N/A                 | REMOVE              | B-DMG, IN FENCE   |  |  |
| 15 M   | ULLBERRY           | Moras spp.                   | 8          | 25                | 10           | N/A                 | REMOVE              | B-DMG, POOR FORM  |  |  |
| 16 UI  | VIBRELLA TREE      | "Schefflera actinophylla"    | 11         | 25                | 12           | N/A                 | REMOVE              | INVASIVE EXOTIC   |  |  |
| 7 S    | TRANGLER FIG       | "Fícus aurea"                | 28         | 25                | 30           | 60                  | REMOVE              | AROUND 14" MELALEUCA, B-DMG, SUCKERS                      |  |  |
| 8 M    | ULLBERRY           | Moras spp.                   | 3          | 8                 | 8            | N/A                 | REMOVE              | SPARSE, DMG   |  |  |
| 9 RI   | UBBER TREE         | Ficus elastica               | 15, 26     | 25                | 35           | 40                  | REMOVE              | ROOT DMG, T-DMG, B-DMG, DECAY                             |  |  |
| 20 101 | VBRELLA TREE       | "Schefflera actinophylla"    | 9          | 25                | 12           | N/A                 | REMOVE              | INVASIVE EXOTIC   |  |  |
| 21 U   | VBRELLA TREE       | "Schefflera actinophylla"    | 10         | 28                | 12           | N/A                 | REMOVE              | INVASIVE EXOTIC   |  |  |
| 22 C/  | ABBAGE PALM        | "Sabal palmetto"             | 10         | 5                 | 0            | N/A                 | REMOVE              | DEAD  |  |  |
| 23 GI  |                    | "Bursera simaruba"           | 12         | 30                | 30           | 60                  | REMOVE              | T-DMG, B-DMG, SHADED                                      |  |  |
| 24 C/  | ARROTWOOD          | "Cupaniopsis anacardioides"  | 12         | 20                | 20           | N/A                 | REMOVE              | INVASIVE EXOTIC   |  |  |
| 25 BI  | LACK OLIVE         | "Bucida buceras"             | 11         | 24                | 30           | 50                  | REMOVE              | NO LEADER, HORIZONTAL, UTILITY CONFLICT                   |  |  |
| 26 BI  | ACK OLIVE          | "Bucida buceras"             | 10         | 22                | 25           | 40                  | REMOVE              | SM ROOT AREA, T-DMG, B-DMG, SPARSE, DIEBACK, UTILITY CONF |  |  |
| 27 BI  | LACK OLIVE         | "Bucida buceras"             | 14         | 25                | 25           | 30                  | REMOVE              | B-DMG, OPEN WOUNDS, POOR CANOPY, POOR STRUCTURE           |  |  |
| 28 M   | AHOGANY            | "Swietenia mahadoni"         | 12         | 25                | 25           | 60                  | REMOVE              | WOUNDS, CANOPY LIFTED                                     |  |  |
| 29 RI  | USTY FIG           | Fícus rubiaínosa             | 12         | 20                | 20           | 20                  | REMOVE              | MAJOR DAMAGE, BROKEN LEADER, B-DMG                        |  |  |
| 30 M   | AHOGANY            | "Swietenia mahadoni"         | 28         | 30                | 40           | 20                  | REMOVE              | CO-D. OPEN WOUNDS. DECAY, INCUSION, CRACKS, HAZARD        |  |  |
| 31 BI  | ACK OLIVE          | "Bucida buceras"             | 12         | 30                | 20           | 40                  | REMOVE              | SPARSE CHLOROTIC  |  |  |
| 2 FI   |                    | Forestiera segregata         | 322        | 18                | 12           | 50                  | REMOVE              | OVERGROWN SHRUB. IN FENCE. PRUNING DMG                    |  |  |
| 33 P   | YGMY DATE PALM     | "Phoenix roebelenii"         | 3          | 6                 | 4            | N/A                 | REMOVE              | SMALL PALM POOR HEALTH                                    |  |  |
| 34 P   | ONGAM              | "Pongamia pinnata"           | 14         | 20                | 25           | 10                  | REMOVE              | POOR CONDITION DISEASED SCALLY GROWTH ON TRUNK            |  |  |
| 5 P(   | ONGAM              | "Pongamia pinpata"           | 7          | 12                |              | 10                  | REMOVE              |   |  |  |
| 6 Pi   |                    | "Bucida buceras"             | 16         | <u>י</u> <u>ረ</u> | 25           | 20                  | REMOVE              | EVEDOOTE SHOKEDS & DMC                                    |  |  |
|        |                    | "Rucida hucaras"             | 10         | 20                | 20           | 65                  | DEMOVE              |   |  |  |
| 0 Di   |                    | "Schefflere setimenhulle"    | 10         |                   | 12           | 00<br>N/A           |                     |   |  |  |
|        |                    |                              | 10         | 40<br>40          | 25           |                     | REIVIOVE            | NY AGY E EAUTH  |  |  |
| 0 T    |                    | "Torminalia astarna"         | 01         | 4U                | 30           | CO                  | DEMAIN              | BUKFAGE KOUTS, UTILITY CONFLICT, ELECTROCUTION HAZARD     |  |  |
|        |                    | reminalia catappa"           | /<br>      | 14                | <u> </u>     | N/A                 |                     | INVAGIVE EXUIN - OFFORE TREE                              |  |  |
| H CA   | AKKU I WUUD        | cupaniopsis anacardioides"   | 5          | 10                | ЬQ           | N/A                 | KEMAIN              | INVASIVE EXUIC - OFFSILE TREE                             |  |  |

| ABBREVIATIONS LEGEND |                    |  |  |  |  |
|----------------------|--------------------|--|--|--|--|
| BCAV                 | BRANCH CAVITY      |  |  |  |  |
| B DMG                | BRANCH DAMAGE      |  |  |  |  |
| CO-D                 | CO-DOMINANT        |  |  |  |  |
| CON                  | CONSTRICTION       |  |  |  |  |
| D                    | DECAY              |  |  |  |  |
| DB                   | DIEBACK            |  |  |  |  |
| DL                   | DUAL LEADER        |  |  |  |  |
| FB                   | FUNGUS BODIES      |  |  |  |  |
| IB                   | INCLUDED BARK      |  |  |  |  |
| L                    | LEANING            |  |  |  |  |
| MT                   | MULTI-TRUNK        |  |  |  |  |
| RDMG                 | ROOT DAMAGE        |  |  |  |  |
| T CAV                | TRUNK CAVITY       |  |  |  |  |
| T DMG                | TRUNK DAMAGE       |  |  |  |  |
| W CPY                | WEAK CANOPY        |  |  |  |  |
| OHE                  | OVERHEAD UTILITIES |  |  |  |  |

### TREE DISPOSITION LEGEND SYMBOL DESCRIPTION EXISTING TREE / PALM TO REMAIN (NO SYMBOL) TO BE PROTECTED DURING CONSTRUCTION EXISTING TREE / PALM TO RELOCATE. REFER TO LANDSCAPE $\Delta$ PLAN FOR NEW LOCATION EXISTING TREE / PALM TO REMOVE. REMOVE ALL CAT 1 X INVASIVE EXOTICS. (EX: BRAZ, PEPPER)

TABLE ON LD-102

# TREE DISPOSITION NOTES

XXX-xx

1. EXISTING TREES TO REMAIN SHALL BE TRIMMED PER ANSI-A300 STANDARDS, REMOVING WEAKEST RUBBING BRANCHES AND DEAD BRANCHES, BUT RETAINING 80% OF FOLIAGE. LARGE TREES SHALL HAVE LOWER BRANCHES CLEARED UP TO 8'. 2. SYMBOLS MAY BE SHOWN OFFSET FROM ACTUAL TREE LOCATION FOR CLARITY. 3. CONTACT LANDSCAPE ARCHITECT / ISA CERTIFIED ARBORIST FOR CLARIFICATION ON ANY DISCREPANCIES.

EXISTING TREE / PALM NUMBER. REFER TO TREE DISPOSITION

4. TRIMMING AND ANY NECESSARY ROOT PRUNING SHALL BE PERFORMED OR SUPERVISED BY A CERTIFIED ARBORIST.

5. ALL TREE WORK REQUIRE PERMITTING BY A REGISTERED COUNTY TREE TRIMMER. 6. BUBBLERS SHALL BE PROVIDED FOR ALL RELOCATED TREES AND PALMS. 7. REMOVAL OF ANY TREES OR PALMS WILL REQUIRE A WRITTEN "TREE REMOVAL PERMIT" FROM THE LOCAL GOVERNING AGENCY PRIOR TO REMOVAL. CONFIRM WITH LOCAL GOVERNING AGENCY THAT TREES CLASSIFIED AS NUISANCE/EXOTIC INVASIVE MAY BE EXEMPT.

8. ALL TREES AND PLANT MATERIAL TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. REFER TO TREE PROTECTION DETAIL. THE CONTRACTOR SHALL TAKE EXTRA CAUTION TO PREVENT ANY DAMAGE TO THE TRUNK, ROOT ZONES AND GRADE.

|     | Tree Mitigation Table            |  |  |  |  |
|-----|----------------------------------|--|--|--|--|
| 247 | Total DBH (inches) to be removed |  |  |  |  |
|     | <b>Replacement Trees</b>         |  |  |  |  |
| 207 | Total Caliper inches proposed    |  |  |  |  |
|     |                                  |  |  |  |  |

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| Florida         | Certificate of Authori     | zation: 7928          |
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| SHEET<br>NUMBER | LD-C                       | )01                   |
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|                 | , 1107                     | 4.01                  |

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| I               | 5 |  |   |  |
|-----------------|---|--|---|--|
| D C             | N | GRAPHIC SCALE<br>20 40<br>20 40<br>CALE = 1" = 20'<br>MOTE: PRINTED DRAWING SIZE MAY HAVE<br>CHANGED FROM ORIGINAL. VERIFY<br>SCALE USING BAR SCALE ABOVE. | Solution of the second |  |
| JS 441)         |   |  | PRELIMINARY PLAN         NOT FOR CONSTRUCTION         THESE PLANS ARE NOT FULLY PERMITTER         AND ARE SUBJECT TO REVISIONS MADE         DURING THE PERMITTING PROCESS.         RESPONSIBILITY FOR THE USE OF THESE         PLANS PRIOR TO OBTAINING PERMITS FRO         ALL AGENCIES HAVING JURISDICTION OVE         THE PROJECT WILL FALL SOLELY UPON TH         USER.         ISSUE DATE:       05/17/2         DESIGNED BY:       JR, M         DRAWN BY:       JR, M         CHECKED BY:       M  |  |
| ETATE ROAD 7 (U |   |  | BID-CONTRACT:<br>MICHAEL J. PHILLIPS, R.L.A.<br>FLORIDA REG. NO. LA0001540<br>(FOR THE FIRM)<br>CLIENT<br>PINNACLE<br>HOUSING   |  |
|                 |   |  | GROUP PROJECT PINNACLE 441 HOLLYWOOD  |  |
|                 |   |  | SHEET TITLE<br>TREE DISPOSITION PLA   |  |
|                 |   |  | NUMBERLD-101PROJECT11074.01   |  |

- 10. Erosion control devices such as silt fencing, debris basins, and water diversion structures shall be installed to prevent siltation and/or erosion within the tree protection zone.
- narrow trencher with sharp blades, or other approved root pruning equipment.
- TREE RELOCATION (These notes for relocation trees only and if applicable)
- Tree Relocation process must be performed or supervised by ISA Certified Arborist. 4'-0" depth within a 6' radius. Root prune a minimum of six weeks before relocation. Prune away all dead or damaged limbs or fronds. For
- fronds above the bud and tie them loosely with jute twine to avoid damage. 4. Brace root pruned trees awaiting relocation.
- necessary by Arborist on staff to balance for intense root ball loss, canopy shall be trimmed only as necessary to increase survival.
- or other fine organic material. Do not compact.
- 9. Maintain the soil moisture at field capacity throughout the six weeks. 10. Allow the plant to regenerate roots over a period of six weeks.
- transplanting.
- heavy equipment
- lifting and moving operation.
- or Developer with approval of municipal / Landscape Inspector. 15. Experienced Tree Spade operator shall move tree or experienced tree mover shall choose best means and
- methods to strap and rig tree for transporting safely without damage to new location.
- requirements specific to the governing authority with jurisdiction. 17. Fertilize the plant as directed by the consulting arborist. 18. When the plant is placed in the new location, backfill the planting pit with topsoil and water thoroughly to
  - eliminate air pockets and compact the soil. Set the tree no deeper than its original condition. 19. Cover the root ball area with 3" depth of organic mulch. 20. Provide fungicide and fertility applications at the direction of the consulting arborist.

  - times each inch of trunk diameter at breast height.
  - without an extensive amount of weight that may damage the heart of the palm. The Sabal palmetto shall have all fronds cut without damaging the bud.
  - and the canopy kept moist. 25. Digging and preparation of the new hole for the transplant shall be done prior to removing the tree from the
  - existing location. 26. The landscape Contractor is to verify that all new holes have appropriate percolation. 27. Padding the sling may be necessary so that the trunk or "boots" are not damaged.
  - 28. A 6" saucer shall be created around the edge of the plant pit to help hold water, see planting detail for additional information.
  - are not vertical when caused by winds less than 74 mph.
  - months to six months three times per week, last six months one time per week.
- H. SITE PREPARATION & GRADING
- project to provide for proper soil aeration for plant establishment.
- shall be de-compacted so that drainage is not impeded.
- and rubbish.
- to the native soils.
- extra caution to prevent any damage to the trunk, root zones and grade.
- to swales, if applicable.

- all individual trees in turf areas and all planting beds.
- landscaped areas and furnish and install a rain sensor.
- avoid overspray onto buildings or paved areas.

- district with jurisdiction shall be strictly adhered to.
- 7. Irrigation water whether pumped from a lake or a well shall be treated for algae, rust, etc. to provide clean treated
- irrigation water that will not clog or stain property or components.
- HARDSCAPE & OTHER MATERIALS surfaces, unless otherwise indicated on the plans. Refer to details.
- K. UTILITIES / CLEARANCES
- irrigation lines Landscape Architect and Owner.
- 3. All canopy trees to be planted min. of 15' from light source/poles. Unless otherwise approved by the governing
- authority / Landscape Architect and Owner.

- The location of plants, as shown on the plans, is approximate. The final locations may be adjusted slightly to accommodate unforeseen field conditions, to comply with safety setback criteria, to avoid creating unsafe sight conditions, or as otherwise directed or approved by the Landscape Architect / owner in writing. All other location adjustments to the layout are to be approved in advance in writing by the Landscape Architect and owner. Contractor understands that an important element of the design of this project is meeting landscape ordinances with a design flare that includes symmetry, alignment, focal points and / or smooth curvilinear forms where applied and contractor shall follow and instruct the working crews accordingly. In the event of any doubt as to
- how to execute the plans, Contractor shall immediately consult with Architect and/or Owner. Landscape Contractor shall fine grade, prepare site as outlined in the following notes and per plans; furnish and install all plants, shrubs, trees and / or palms meeting minimum requirements and brace them per details
- provided. Furnish and install soil, gravel, boulders, sod and mulch as specified in plans and notes below. Landscape contractor shall furnish and install all trees, palms, shrubs, groundcover, sod, planting soil, fertilizer, herbicide, pre-emergence herbicide, seed, and mulch.

BIDDING

SCOPE

- Contractor to have liability insurance including Owner and Landscaper as insured's in excess of \$10,000 as well as Worker's Compensation
- 2. Contractors and Subs must ensure they are doing take offs from Bldg Dept.. Revised sets and / or Bid Set documents. Verify with this Office that you are bidding from latest available plans.
- 3. Read ALL notes and typical planting details sheets prior to submitting RFIs and prior to bidding.
- 4. When submitting an RFI reference sheet number, detail number and/or note category and number. 5. Landscape contractor shall verify all estimated quantities of material shown on the drawings prior to submitting their bid. Plant list pricing (if shown) is for permitting / mitigation comparison purposes only, any prices shown are to be disregarded by Landscape Contractor.
- 6. All Plant Material shall meet or exceed height and spread requirement. Heights are local code requirement and / or design intent related and always governs over container size. Container size given for reference only and must be sized-up to meet height requirements of plant list. Plant material available with excessive height beyond specifications must be consulted with Landscape Architect for design intent.
- 7. All landscape material was confirmed to be available at time of design. Landscape contractor understands that some material may not be available locally, however is available in Tri-County Region. Plant material supply is the responsibility of the Landscape Contractor that is awarded the contract and he/she shall take steps to ensure availability at the time of installation. Bring to the attention of Landscape Architect if specific material is no longer available at the time of bidding and / or prior to actual construction. Substitutions must be approved prior to construction.
- 8. Pre-inspections of site required prior to bidding.
- 9. The plant list is intended only as an aid to bidding. Any discrepancies found between the quantities on the plan and the quantities on the plant list shall be brought to the attention of the Landscape Architect for clarification. 10. All labor and material for soil amendments and fertilizer that is required to ensure the successful establishment and survival of the proposed vegetation, as well as all the cost for the removal of unsuitable or excess backfill material from plant beds, in addition to fine grading and mulching all plant beds and individual trees shall be included in the contractor's bid to perform the work represented in this plan set.
- 11. Bid shall be itemized for possible value engineering. 12. Sod and Rocks (if specified) shall be estimated by scaling plans. Include price per square foot for sod. Rocks (include price per ton). Small rocks and gravel beds shall have landscape fabric material and minimum 4" depth. Boulders to be bid by unit.
- 13. All S.F. if noted is approximate and shall not be considered all inclusive; it is the contractor's responsibility to do his or her take off, submit price per S.F. and in the end, sod all areas that are not covered either by plants, mulch and/or rocks. It shall be the responsibility of the contractor to include in the bid, the repair of any existing sod which may be damaged during construction.
- Final payment to the Contractor shall be for actual plants installed on the project. 15. Contractor shall be responsible for obtaining and paying for costs of all permits described in bid whether permit costs are reimbursable by owner or included in bid. Research permit status and research all permits and additional documentation and certifications required such as separate tree removal permit for example, and consider prior to bidding.
- 16. General / Landscape Contractor shall leave a 5% unforeseen conditions allowance such as for additional root barriers determined to be needed on site and as job progresses. 17. Refer to Section T, Watering, for supplemental watering requirement.
- 18. Landscape contractor is responsible for verifying all plant quantities prior to bidding and within 7 calendar days of receipt of these plans shall notify the landscape architect in writing of any and all discrepancies. In case of discrepancies, planting plans shall take precedence over plant list. No substitutions are to be made without prior consent of the Landscape Architect.

GENERAL LANDSCAPE NOTES

- Plants grown in containers prior to installation shall be removed from their containers before they are planted in the ground and have circling roots removed. All screening shrubs shall be planted for proper operation of equipment being screened and/or per the requirements of the utility as necessary. All hedge material required for screening purposes shall be planted with branches touching. Adjust spacing as necessary and/or provide additional plants to provide an adequate screen as required by code. Leave access to utility or clearance as required
- 2. All landscaping shall be installed according to sound nursery practices. Contractor shall comply with federal,
- state and local laws and regulations pertaining to the inspection for plant disease and insect infestation. 3. All ideas, designs and plans indicated or represented by this drawing are owned by and are the exclusive
- property of Keith and Associates and may not be duplicated without authorization or used for other projects than the intended. 4. The Landscape Contractor shall exercise caution to protect any existing sod, electrical and irrigation. Any
- damage to the sod, electrical or irrigation shall be replaced or repaired to the original state by the Landscape Contractor at no additional cost to the owner.
- 5. Tree, palm, accent shrubs and bed lines are to be located in the field and approved by the Landscape Architect / owner prior to planting. Landscape Contractor acknowledges that material planted without approval of location may be subject to relocation by Landscape Architect to maintain design intent if not followed properly. 6. All trees must be pruned as per Landscape Architect's direction.
- 7. In areas where asphalt is removed in order to receive landscape material, the lime rock sub-base material must also be removed and replaced with approved planting soil mix.
- 8. Landscape contractor is responsible for sending photographs to the landscape architect to pre-approve all trees, palms, and shrubs prior to delivery to project site.
- Landscape contractor shall coordinate his or her work with that of the irrigation, landscape lighting, and hardscape contractor if different.
- 10. The landscape contractor shall treat plant areas with pre-emergence herbicide after weeds and grass have been removed. Landscape contractor shall wait 7 days after pre-emergence treatment prior to planting.

# PERMITS & REGULATIONS

- Contractor(s) must obtain separate landscape, irrigation and tree relocation/removal permits from the governing authority prior to the issuance of the first building permit for the project. 2. Landscape contractor to call the local Landscape Inspector to schedule a pre-construction meeting prior to
- installation if required. 3. All mandatory requirements by local Landscape Departments and their inspectors shall govern and landscape
- contractor commits by accepting contract to comply promptly for builder/owner to obtain C.O.

# TREE REMOVAL

- Removal of any trees or palms will require a written "tree removal permit" from the local governing agency prior to removal. Non-native trees classified as "prohibited" trees may be exempt from the permit if listed as Category 1 by Florida Exotic Pest Plant Council. Confirm with Local Municipality. 2. Landscape Contractor is responsible to remove ALL invasive nuisance trees such as Brazilian Pepper,
- Melaleuca, Australian Pine and all invasive trees as categorized by the governing agencies, whether listed on plans or not. The Landscape Contractor is responsible for coordinating tree and palm removals and transplants shown on the
- tree/palm Disposition Plan. The Landscape Contractor is to remove and discard from site existing unwanted trees, palms, shrubs, ground covers, sod and weeds within landscape areas.

# EXISTING TREES

- Existing trees designated to remain shall be protected during all construction phases. Any trees or shrubs designated to remain that are scarred or destroyed will be replaced at the contractor's expense, per the appraised value.
- 2. Existing plant material not shown on the plan and in conflict with new planting shall be evaluated at the time of new planting installation by the Landscape Architect. Trees and plant material indicated to be relocated with no new location provided in plans shall be moved to a location on site designated as a nursery holding area with the root ball protected from direct sunlight, maintained and irrigated until new location is determined.
- . Prune trees to remove damaged branches and improve natural shape and thin out structure. Do not remove
- more than 15% of branches. Do not prune back terminal leader. 4. Prune existing shrubs to remove damaged branches and improve natural shape. 5. Existing trees to remain shall be trimmed per Ansi-A300 standards. Supervision of the trimming shall be
- performed by an ISA Certified Arborist to ensure quality work. 6. All existing trees shall be "lifted and thinned" to provide an 8' minimum clearance for sidewalks and pedestrian
- walkways and a 14' minimum clearance for roadways, driveways and all vehicular use areas. Selective canopy and root pruning of existing trees can be conducted (only as necessary and in no event more than 35%) to accommodate for new approved construction. Pruning shall be conducted / supervised by an ISA Arborist.
- 8. If plans call for relocation of trees, palms or plants. High level of care should be exercised to assure that they are not damaged in the process and that they are promptly replanted upon being dug up.
- 9. All underground utilities and drain or irrigation lines shall be routed outside the tree protection zone. If lines must

- IRRIGATION

- 4. Irrigation Contractor to adapt design to onsite conditions adjusting heads and changing nozzles as required to

traverse the protection area, they shall be tunneled or bored under the tree.

11. Roots shall be cut manually by digging a trench and cutting exposed roots with a saw, vibrating knife, rock saw,

Flag all trees and palms to be transplanted with differentiating color than those to be saved or removed.

3. Water the root zones to field capacity for 5 continuous days before root pruning. At a minimum soak the soil to a

trees, prune out 1/3 of the existing canopy by selectively trimming small internal branches. For palms, gather

5. Root prune  $\frac{1}{3}$ rd of the root system, irrigate daily for 2 weeks then root prune another  $\frac{1}{3}$  rd, irrigate daily and prune last  $\frac{1}{3}$  rd on actual relocation date, no less than two weeks (six weeks total minimum root pruning by stages). ISA Arborist on staff shall observe for intense shock. Canopy pruning may be deemed

6. Root prune with proper clean equipment to sever roots. Ensure roots are not torn or pulled apart. 7. With hand tools, dig a 2'-0" wide by 3'-0" deep trench at a minimum distance as determined by the consulting arborist to expose roots. Cut all roots 1.5" and larger in diameter with a clean, sharp pruning saw. Treat all cuts

with a fungicidal barrier. Backfill the trench, within 4 hours of digging, with a 1:1 mixture of site soil and sawdust 8. Form a rootball size in compliance with Florida grades and Florida standards number 1 or better.

11. At the end of six weeks, prepare the planting pit at the new location. Overdig the hole diameter a minimum of 2' beyond the root ball, with the recipient hole to be at least 1/3 larger than the area that was trenched for

12. With the consulting arborist present, undercut the entire root ball of the plants to be transplanted at a depth specified by the arborist. The undercutting method may be a choker cable drawn through the root ball with

13. At the direction of a professional rigger, assemble slings, padding, guiding ropes and cables for attachment to the crane or backhoe. The professional rigger shall determine the size of machinery necessary to execute the

14. Install trees within 24 hours of removal from their original location to locations provided by Landscape Architect

16. Maintain trees in a healthy and vigorous condition during installation and throughout the plant establishment period. Replace trees that do not meet this requirement with the same species, size, and quality or per mitigation

21. Post transplant watering to provide moisture and reduce any excessive stress due to root desiccation. Watering to be adjusted according to conditions and at the supervision and direction of the ISA certified arborist.

22. The diameter of the root--pruning or transplanting circle shall be at a distance away from the trunk equal to 12 23. For all palms except Sabal palmetto, the lower fronds shall be pruned leaving 9-11 fronds that can be tied

24. Transplanting must occur within 24 hours after being dug for relocation. Trees/palms should be kept in shade

29. Over the guarantee period the Landscape contractor shall be responsible for resetting any trees or palms that

30. After transplanting trees and palms, the landscape contractor shall be responsible for obtaining water and watering to maintain soil moisture during the guarantee period at a minimum of: First month- daily, Second month - three times per week, Third and Fourth months - two times per week, Last eight months - one time per

31. For trees over 4" in caliper at the time of planting, the schedule should be: First six weeks, daily, one and a half

1. Landscape contractor shall loosen and till compacted soils that are overly compacted in all planting areas of the

2. Planted areas shall be cleared of underground rocks, construction debris and other materials detrimental to the health of the plants. Lime rock base material shall be removed within planting pits and adjacent to pavement. The planting areas should be clean to a depth equal to the root ball of the trees/palms proposed for the area. Planting area soils shall be tested for ph before planting. Soils showing high (alkaline) ph (over 7.5) shall be amended or replaced with native soil having a ph range of 6.5 - 7.5, as approved by Landscape Architect.

3. All planting areas and planting pits shall be tested for sufficient percolation prior to final planting and irrigation installation to ensure proper drainage. Plant beds in parking lots and in areas compacted by heavy equipment

4. Landscape Contractor shall treat plant areas with pre-emergence herbicide after weeds and grass have been removed. Landscape Contractor shall wait (7) seven days after pre-emergence treatment prior to planting. 5. Site preparation shall include the eradication and removal of any weeds, clean-up of any dead material, debris,

6. General site and berm grading to +/- 1 inch (1") shall be provided by the general contractor. All finished site grading shall be provided by the Landscape Contractor. All planting beds shall be free of all rocks 1/2" or larger, sticks, and objectionable material including weeds and weed seeds. All lime rock shall be removed/cleaned down

7. The Landscape contractor shall ensure the planting areas are at finish grade prior to installing plant materials. 8. All trees and plant material to remain shall be protected during construction. Contractor shall install protective barriers such as "Tenax" orange safety fencing or similar, to be installed before the beginning of the project. Barriers shall be located to include the drip line of the trees, palms and plant material. The contractor shall take

9. Final grade within planting areas to be 4" below adjacent paved areas or top of curb. Sod areas to be 2" below. 10. All planting beds shall be shaped and sloped to provide proper drainage away from building and structures and

Any Irrigation Notes and specifications included in Irrigation Sheets govern over the following Irrigation Notes. 2. The Landscape Contractor shall coordinate with the irrigation contractor if not the same and leave provisions for

3. Irrigation / Landscape contractor to guarantee 100% coverage and 50% overlap (head to head coverage) to all

5. The contractor shall ensure that the irrigation system is operational and free of leaks prior to any planting being

finalized. Plant material that is installed prior to the irrigation system being operational shall be watered by the contractor at his or her expense. Water for plant establishment should be included in the cost of the plant. 6. All guidelines as outlined by the South Florida Water Management District (SFWMD) or water management

8. Any existing irrigation system shall be retrofitted to comply with the specifications as outlined above.

Face of trees and palms to be located a minimum of 2' setback from all fences, walkways, walls, and paved

1. The contractor shall be responsible for determining the location of and avoid and protect utility lines, buried cables, and other utilities. The owner or Landscape Architect shall not be responsible for damage to utility or

2. Trees shall be placed a minimum of 5 ft. from underground utilities, unless otherwise approved in writing by

4. Landscape contractor shall contact the county, governing authority and/or utility companies to locate all

### underground utilities or structures prior to digging. Landscape contractor shall repair all damage to underground utilities, and/or construction caused by utility damage, at no cost to the owner. 5. All plant material symbols shown on landscape plan shall be considered diagrammatic and should be adjusted in

the field by contractor to avoid all utilities, and all other obstructions. 6. If/ When digging in right of way needed: Two (2) full business days before digging, call toll free 1-800-432-4770, or 811, Sunshine State One Call of Florida, inc. Notification Center. In addition, call the Governing Agency's Utilities/Public Works Department. Contractors are responsible for coordinating with the owners and appropriate

public agencies to assist in locating and verifying all underground utilities prior to excavation. All existing utilities shown on the plans are to be considered approximate and should be verified by the contractor prior to the start of work operations. 7. Above and below ground utilities shall be verified and located in the field by the contractor prior to commencing work in the project area. The contractor shall examine available utility plans and confirm conflicts between

indicated or located utilities and landscape work. The contractor shall then notify the Project Engineer of said conflicts and the Engineer will coordinate any necessary adjustments with the utility provider. Tree locations will be adjusted as necessary when in conflict with existing utilities. 8. The final plant locations may be adjusted, as approved / directed by the Landscape Architect in writing, to

accommodate utilities compliance. Excavations within 5' of known utilities should be done by hand. 9. Contractor shall familiarize himself with the location of and avoid and protect utility lines, buried cables, and all

other utilities, noted or not, on plans. 10. Leave clearance and access to all above ground or at grade meters and equipment

11. Landscape planting shall be in conformance with FPL guidelines for setbacks from overhead utility lines. 12. Landscaping shall not interfere with light poles, fire hydrants, electrical/mechanical equipment access, signs, drainage structures, etc. Bring to the attention of Landscape Architect any conflicts.

ROOT BARRIERS

- Root barriers will be installed to protect building foundations, curbing, walkways, paved areas, roadway base material and utilities from existing large trees or proposed new trees that are within 5' of existing or new approved construction or as may be deemed necessary as job progresses.
- 2. Mechanical Root barriers will be used for large existing Canopy Trees and chemical type barriers will be used for new trees.
- 3. Mechanical Root barriers will be "DeepRoot" and Chemical Root barriers will be "Biobarrier". Substitutions must be of approved equal or better quality. Root barriers will be installed per manufacturer specifications.
- 5. Root barrier depths will be determined by the manufacturer recommended depth chart and as required by on-site conditions in a case by case basis as deemed necessary by Landscape Architect Architect / ISA Arborist and Landscape Inspector.

LANDSCAPE BACKFILL & SOIL AMENDMENT Μ

- 1. All building construction material and foreign material shall be removed from the planting areas and replaced with 70/30 mix (70% sand / 30% organic compost) or amend existing soils per section H.2. 2. Planting soil mix shall be delivered to the site in a clean loose and friable condition and is required around the root ball of all trees and shrubs, the top 6" of all shrubs and ground cover beds and top 2" of all grassed areas.
  - This soil shall be tilled into the existing soil after the existing soil has been cleaned of all undesirable foreign materials. Recycled compost is encouraged as a soil amendment alternative. Planting soil to be weed free.
- 3. Planting backfill for palms shall be clean coarse native sand unless specified elsewhere. 4. Do not allow air pockets to form when backfilling. All trees shall be watered-in utilizing water probe or a tree bar.

N. PLANT SIZE & QUALITY

- 1. All plant material must meet or exceed the minimum size requirements as specified on the plant list. Height specification governs over container size if both specifications given cannot be met. Any other requirements for specific shape or effect as noted on the plan shall also be required for acceptance. 2. Material specified as Balled and Burlapped (B&B) can be accepted in container if not available as B&B at the
- discretion of Landscape Architect; if so, root bound and/or circling roots shall be removed and root ball must be proportionate to Tree / Palm. 3. U.O.N, All trees designated as single trunk shall have a single, relatively straight, dominant leader, proper
- structural branching and even branch distribution. Trunks on palms shall be uniform in thickness for the entire length of the palm and shall not taper off to disproportionate thinness towards the crown. Trees with bark inclusion, tipped branches, and co-dominant trunks will not be accepted. Trees with girdling, circling and/or plunging roots will be rejected.
- 4. Use nursery grown plant materials that complies with all required inspection, grading standards, and plant regulations in accordance with the latest edition of Florida Department of Agriculture, "Grade & Standards for Nursery Plants".
- 5. All trees and palms shall be free of open wounds and unsightly visible scars.
- 6. All substitutions must be approved by the governing authority if it is required Canopy and by Landscape Architect / Owner if supplementary accent material.
- 7. Contractor shall comply with Federal, State, and Local laws and regulations pertaining to the inspection for plant disease and insect infestation.
- 8. Trees, palms, shrubs, ground covers: Plant species and sizes shall conform to those indicated on the drawings. All nursery stock shall be in accordance with grades and standards for nursery plants parts 1 and 2, latest edition published by the Florida Department of Agriculture and Consumer Services, unless specified otherwise. All plants shall be Florida grade number 1 or better as determined by the Florida Division of Plant Industry and tightly knit plant, so trained or favored in its development that first appearance is unquestionable and it is outstandingly superior in form, number of branches, compactness and symmetry. All plants shall be freshly dug, sound, healthy, vigorous, well branched and free of disease and insect eggs and larvae and shall have adequate root systems. Trees and palms shall be uniform in size and shape. All materials shall be subject to approval by the Landscape architect. Plants shall be pruned prior to delivery only upon the approval of the Landscape Architect.
- 9. All container grown material shall be healthy, vigorous, well-rooted plants and established in the container in which they are sold. The plants shall have tops of good quality and be in a healthy growing condition. An established container grown plant shall be transplanted into a container and grown in that container sufficiently long enough for the new fibrous roots to have developed so that the root mass will retain its shape and hold together when removed from the container.
- 10. Field grown trees and palms previously root pruned shall obtain a root ball with sufficient roots for continued growth without resulting shock. 11. Root suckers on any tree are not acceptable and must be properly pruned.
- 12. Contractor shall coordinate with Landscape Architect and Owner to obtain prior approval for the selection of the specific specimens of all palms and any trees of more than six feet in height. Contractor to supply photograph of trees prior to purchase and installation.

О. PLANTING NOTES

- 1. At the discretion of the Landscape Architect, plants are subject to review for approval for size, variety, condition and appropriateness to the design intent.
- 2. All synthetic burlap, synthetic string or cords, or wire baskets shall be removed before any trees are planted. All synthetic tape (i.e. tagging tape, nursery tape) shall be removed from trunks, branches, etc. before inspection. The top 1/3 of any natural burlap shall be removed or tucked into the planting hole before the trees are back
- 3. All "groundcover" requires 75% coverage and 100% within 3 months of installation. Bring to the attention of
- Landscape Architect in writing before commencing if this is not achievable with the design. 4. Set tree no deeper than it was in its original growing condition with the top of the root ball even with, or slightly
- higher (+/-1) than the finished grade. 5. All trees/palms shall be planted so the top of the root ball, root flair are slightly above final grade. Shrub material
- shall be planted such that the top of the plant ball is flush with the surrounding grade. 6. All trees and palms shall be braced / staked per accepted standards by the Florida Nursery, Growers &
- Landscape Association (FNGLA). Nailing into trees and palms for any reason is prohibited and the material will be rejected. Please refer to the planting details.
- 7. All trees, new or relocated, to be staked and guyed as detailed.
- 8. Layout shrubs to create a continuous smooth front line and fill in behind with triangular spacing.
- 9. Excavate pit or trench to 1-1/2 times the diameter of the balls or containers or 1' wider than the spread of roots and 3" deeper than required for positioning at proper height . Compact a layer of topsoil in bottom before placing plants. Backfill around plants with planting mixture, compacted to eliminate voids and air pockets. Form grade slightly dished and bermed at edges of excavation. Apply 3" of mulch.
- 10. Groundcover and shrubs to be spaced in a uniform and consistent pattern per planting details. 11. All mechanical equipment, irrigation pumps, FPL transformers, pool pumps, etc. shall be screened on a minimum of three sides by landscape shrubs.
- 12. Contractor shall not mark or scar trunks in any fashion.
- 13. When requested by Landscape Architect, demonstration of healthy root system if not previously approved, can include tree removal and re-installation for inspection at no additional cost to the owner. 14. Remove rejected Plant material from the Site immediately and replace with acceptable plants.
- P. FERTILIZATION
- 1. All Fertilization shall comply with state fertilization laws. Fertilization shall be Agriform "20-10-5 Plus minors" or similar approved slow-release tablets applied per manufacturer suggested application rate chart:
- Agriform® 21-gm Tablets (SKU# 90026\*; 500 tablets/case)

NEW Tree / Shrub Container Size 1 Gal 2 Gal 3 Gal 5 Gal 7 Gal 15 Gal 24" Box Installation: 1 1 to 2 2 to 3 2 to 3 3 to 5 7 to 10 15 to 24

- Place plant in the hole and backfill to halfway point.
- · Do not place tablets in the bottom of the planting hole.

• Place Agriform Tablets in the hole about 1to 2 inches away from root tips. • Finish filling the hole around the plant to grade level.

SCOTTS: 1-800-492-8255 or visit www.scottspro.com

Q. SOD 1. All areas disturbed during construction shall be sodded with St. Augustine 'Seville' unless otherwise noted.

These disturbed areas shall have proper irrigation established or re-established if they were disrupted or non-functional.

- Landscape Contractor to supply and install 2" soil layer 50/50 mix blanket for all new sod areas. 2. All open areas not covered by trees, palms, shrubs, vines, ground covers or existing sod in good condition to remain, shall receive Stenotaphrum Secundatum, St. Augustine 'Seville' sod, whether labeled on the plans or not, unless a different species is indicated on the planting plan. Sod shall be strongly rooted, free from weed, fungus, insects and disease. Contractor shall be paid by the total sodded area x the unit price submitted (field verified). 3. Sod shall be machine stripped no more than 24 hours prior to laying.
- 4. Lay sod strips with tight joints, do not overlap, stagger strips to offset joints in adjacent courses. Work sifted soil mix into minor cracks between pieces of sod and remove excess soil deposits from sodded areas. Sod on slopes greater than 3:1 shall be immediately staked after planting.
- R SUBMITTALS 1. Submit 1 gallon container of all planting media for landscape architect review. Samples to include specified
- planting mix, topsoil, container planting mix (if applicable) and mulch. 2. Submit representative nursery photos of all Trees and Palms for review prior to delivery to the site. Include scale for height.
- 3. Submit representative nursery photos of all shrub and groundcover material for review prior to delivery to the site.
- S. INSPECTION & ACCEPTANCE
- 1. Notify the governing Agency if required and Landscape Architect of commencement. 2. Onsite plant deliveries shall occur on Monday through Friday only unless otherwise directed by the Landscape Architect / Owner. The contractor shall ensure that plant material is delivered undamaged from transportation or digging operations. The Landscape Architect may reject material that has been damaged or rendered unacceptable due to relocation or transportation from the point of origin. All plant material shall be available for inspection and approval by the Landscape Architect prior to final installation.
- 3. There shall be one final inspection for approval by each of the presiding governing agency, Landscape Architect and owner. Contractor shall ensure that the plans, details, specifications and notes have been adhered to and that the landscape and irrigation installation is compliant to all items as directed on the plans prior to scheduling of the final inspection.
- 4. Upon completion of the work, the Landscape Contractor shall notify the Landscape Architect and request a final inspection. Any items that are judged incomplete or unacceptable by the Landscape Architect or owner shall be promptly corrected by the Landscape Contractor.
- 5. No substitution of plant material, type or sizes will be permitted without prior written authorization from the Landscape Architect and owner.
- 6. To obtain final payment, Contractor must provide release of all mechanic's liens and material liens.
- T. MULCH 1. All planting beds shall be mulched to a depth of 3" with an organic mulch approved by Landscape Architect. No heavy metals, such as arsenic, etc. are to be contained in the mulch. The contractor shall provide certification if requested or proof that all mulch is free of heavy metals or similar environmental contaminants. 2. Shredded approved organic mulch to be used beyond trunk in all directions and throughout all hedges and plant
- material 3. All trees in sodded areas shall have a clean cut 4' diameter mulch ring.
- Preferred mulch is shredded melaleuca. Cypress, red, gold and green mulch is prohibited. 5. All mulch shall have a minimum 3" separation from the trunk of the tree/palm trunk to avoid rotting.
- U. WATERING
- 1. All plant material shall be watered in thoroughly at the time of planting. 2. It is the sole responsibility of the Landscape Contractor to ensure that all new plantings receive adequate water during the installation and until completion of contract. Deep watering of all new trees and palms and any
- supplemental watering that may be required to augment natural rainfall and site irrigation is mandatory to ensure proper plant establishment and development and shall be provided by Contractor as a part of this contract. V. CLEAN UP
- 1. The Landscape Contractor is responsible for maintaining all landscape planting areas until final acceptance of the owner.
- 2. The contractor is responsible for mowing the entire project during planting and establishment periods, based on mowing project once a month from October to April, and twice a month from April to October (During installation and plant establishment only and until final inspection and owner accepts and takes ownership). 3. Any excess soil, undesired stones or debris resulting from landscape operations shall be removed promptly,
- keeping the site clean as work progresses 4. The Landscape Contractor shall at all times keep the premises free from accumulation of waste material or debris caused by their crews during the performance of the work. Upon completion of the work, the contractor shall promptly remove all waste materials, debris, unused plant material, empty plant containers, and all equipment from the project site.
- MAINTENANCE
- 1. Landscape Contractor to return to job site 12 months after tree bracing and remove all tree braces. Owner may choose to retain 5% of payment to ensure compliance. 2. The Landscape Contractor shall water, mulch, weed, prune, and otherwise maintain all plants, including sod, until
- completion of contract or acceptance by landscape architect. Settled plants shall be reset to proper grade,
- planting saucers restored, and defective work corrected. 3. Trees and shrubs shall be maintained to keep clearance of stop signs and safety clearance for visibility at traffic intersection.
- X. GUARANTEE & REPLACEMENT

1. By accepting the contract, the Contractor is thereby guaranteeing all plant materials and design for a period of not less than one (1) year from the time of final acceptance by the owner. Contractor shall replace any plants which die or wither within such period with healthy plants that meet specifications of the same species and size without additional cost to the owner unless such death or withering is due to Owner's failure to do ordinary maintenance on such plants after final acceptance in accordance with any maintenance instructions given by Landscape Architect for such plants. Such replacement shall include all plants and labor to plant the replacement plants. Any plant materials damaged by lightning, storms, freeze damage or other "acts of God" as well plants damaged by vehicles, vandalism or neglect are not included in this replacement agreement. If requested, the Landscape Architect may act as a mediator between owner and Landscape Contractor on a time material basis. "Plants" includes all trees, palms, shrubs, grass and other plants provided or planted by Contractor.

MISCELLANEOUS.

- All work to be done in a professional manner.
- 2. No change order shall be valid, due or paid unless it is approved by Owner in writing in advance. These notes shall be an integral part of the contract of Contractor and shall be deemed incorporated therein by reference. In the event of a conflict among the terms among the plans and these notes, the terms of this document shall control.

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ABBREVIATIONS IN NOTES AND PLANS

UNO = Unless Otherwise Noted L.A = Landscape Architect S.F. = Square Feet STD = Standard (single trunk) B&B = Balled and Burlapped BLDG DEP = Building Department RFI = Request for Information FPL= Florida Power & Light

C.O. = Certificate of Occupancy ISA CA or ISA Arborist = International Society of Arboriculture Certified Arborist PROJECT

# **PINNACLE 441** HOLLYWOOD

SHEET TITLE

PROJEC<sup>-</sup>

NUMBER

# LANDSCAPE NOTES

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| SHEET<br>NUMBER | LP-001 | TUS   |

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DATE

301 East Atlantic Blvd. Pompano

Beach, FL 33060

PH: (954) 788-3400

Florida Certificate of Authorization: 7928

Licensed Business Number: 6860

REVISIONS

PRELIMINARY PLAN

NOT FOR CONSTRUCTION

THESE PLANS ARE NOT FULLY PERMITTED

AND ARE SUBJECT TO REVISIONS MADE

DURING THE PERMITTING PROCESS.

**RESPONSIBILITY FOR THE USE OF THESE** 

PLANS PRIOR TO OBTAINING PERMITS FROM

ALL AGENCIES HAVING JURISDICTION OVER

THE PROJECT WILL FALL SOLELY UPON THE

USER.

MICHAEL J. PHILLIPS, R.L.A.

FLORIDA REG. NO. LA0001540

(FOR THE FIRM)

PINNACLE

HOUSING

GROUP

05/17/21

JR, MP

JR, MP

MP

**ISSUE DATE:** 

**DRAWN BY:** 

CLIENT

**DESIGNED BY:** 

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- 1. SOD TO BE ST. AUGUSTINE 'FLORATAM', EXCEPT IN RETENTION AREAS. CONTRACTOR TO DETERMINE QUANTITY.
- 2. ALL PLANTS TO BE FLORIDA NO. 1 OR BETTER PER FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS.
- 3. ALL SOD AND LANDSCAPE TO RECEIVE 100% COVERAGE WITH 100% OVERLAP FROM AN AUTOMATIC IRRIGATION SYSTEM USING AN APPROVED WATER SOURCE.
- BUBBLERS TO BE PROVIDED FOR NEW AND RELOCATED TREES AND PALMS. 4.
- CONTRACTOR IS RESPONSIBLE FOR ALL CONDITIONS 5. AND LANDSCAPE SPECIFICATION ATTACHED TO THIS PLAN AND PLANT LIST. PLAN AND SPECIFICATIONS SHALL BE CONSIDERED CONTRACT DOCUMENTS.
- 6. PRE-CONSTRUCTION MEETING IS REQUIRED BEFORE ANY PLANT MATERIAL IS INSTALLED ON SITE.
- 7. ALL ROAD ROCK, CONCRETE, ASPHALT AND OTHER NON-NATURAL MATERIAL BE REMOVED AND BE REPLACED WITH PLANTING SOIL PRIOR TO LANDSCAPE INSTALLATION.
- 8. NO TRENCHING ALLOWED WITHIN ROOT ZONES OF EXISTING TREES.

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| 3    | <b>2 KE</b><br>01 East Atlantic Bly<br>Beach, FL 33<br>PH: (954) 788<br>Florida Certificate of Auth<br>Licensed Business Nu | d. Pompano<br>3060<br>-3400<br>Porization: 7928<br>Imber: 6860       | ember 23, 2020 9:40:08 AM               |
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| TREES | BOTANICAL / COMMON NAME                                    | SIZE                                       | NATIVE | REMARKS        | QTY |
|-------|--|--|--------|----------------|-----|
| BA    | BULNESIA ARBOREA<br>VERAWOOD                               | 12` HT X 6` SPRD, 2" DBH, FULL CANOPY      | *      |                | 8   |
| BS    | BURSERA SIMARUBA<br>GUMBO LIMBO                            | 15` HT X 7` SPR, 3" DBH, FULL CANOPY       | N**    |                | 1   |
| CG    | CAESALPINIA GRANADILLO<br>BRIDAL VEIL TREE                 | 12` HT X 6` SPRD, 2" DBH, FULL CANOPY      | **     |                | 12  |
| CE    | CONOCARPUS ERECTUS<br>GREEN BUTTONWOOD                     | 12` HT X 6` SPRD, 2" DBH, FULL CANOPY      | N**    |                | 18  |
| CES   | CONOCARPUS ERECTUS `SERICEUS`<br>SILVER BUTTONWOOD         | 10` HT X 5` SPRD., FULL CANOPY             | N**    | MULTI-TRUNK    | 8   |
| ED    | ELAEOCARPUS DECIPIENS TM<br>JAPANESE BLUEBERRY TREE        | 12` HT. X 5` SPRD., 2" CAL.                | **     |                | 6   |
| LI    | LAGERSTROEMIA INDICA 'RASPBERRY'<br>RASPBERRY CRAPE MYRTLE | 12` HT, 6` SPR, FULL CANOPY                | **     |                | 13  |
| LM    | LAGERSTROEMIA X `NATCHEZ`<br>WHITE CRAPE MYRTLE            | 15` HT X 6` SPR, 3" DBH, FULL CANOPY       | **     |                | 12  |
| LL    | LYSILOMA LATISILIQUUM<br>WILD TAMARIND                     | 12` HT X 6` SPRD, 2" DBH, FULL CANOPY      | N**    |                | 2   |
| MF    | MYRCIANTHES FRAGRANS<br>SIMPSON'S STOPPER                  | 12` HT X 6` SPRD, 2" DBH, FULL CANOPY      | N**    |                | 19  |
| QV    | QUERCUS VIRGINIANA<br>SOUTHERN LIVE OAK                    | 15` HT X 7` SPR, 3" DBH, FULL CANOPY       | N**    |                | 10  |
| PALMS |  | SIZE                                       | NATIVE | BEMARKS        |     |
| AM    | ADONIDIA MERRILLII<br>MANILA PALM                          | 6`HT. X 3` SPRD., FULL CANOPY,<br>STANDARD |        |                | 9   |
| AM2   | ADONIDIA MERRILLII<br>MANILA PALM                          | 8` OA, DOUBLE                              |        |                | 3   |
| BN    | BISMARCKIA NOBILIS<br>BISMARCK PALM                        | 16` HT OA                                  |        |                | 2   |
| PS    | PHOENIX SYLVESTRIS<br>WILD DATE PALM                       | 12` GW, HEAVY MATCHED                      | **     | DIAMOND<br>CUT | 5   |
| PE3   | PTYCHOSPERMA ELEGANS<br>SOLITARE PALM                      | 10` CT, TRIPLE                             | **     |                | 15  |
| PE    | PTYCHOSPERMA ELEGANS<br>SOLITARE PALM                      | 10` CT                                     | **     | SINGLE         | 6   |
| SP    | SABAL PALMETTO<br>CABBAGE PALMETTO                         | 14`, 20`, 26` CT STAGGERED                 | N**    |                | 16  |
| TR    | THRINAX RADIATA<br>FLORIDA THATCH PALM                     | 8` OA                                      | N**    | FULL<br>CANOPY | 15  |
|       | VEITCHIA MONTGOMERYANA                                     | 14` CT., 22` OA.                           |        |                | 12  |

# PLANT LIST SCHEDULE

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SHRUBS

CC

BOTANICAL / COMMON NAME

CHAMAEDOREA CATARACTARUM CAT PALM

| СТ         | CRINUM ASIATICUM<br>CRINUM LILY  | 3` HT X 3` SPRD.                          | **     |          | 9     |
|------------|--|---|--------|----------|-------|
| TD         | TABERNAEMONTANA DIVARICATA 'FLORE PLENO'<br>FLORE PLENO PINWHEEL JASMINE | 24" HT X 24" SPR                          |        |          | 5     |
| HRUB AREAS | BOTANICAL / COMMON NAME  | SIZE                                      | NATIVE | SPACING  | QTY   |
| AEC        | AECHMEA BLANCHETIANA<br>ORANGE BROMELIAD                                 | 24" HT X 24" SPRD.                        |        | 24" o.c. | 28    |
| ALN        | ALLAMANDA CATHARTICA<br>GOLDEN TRUMPET                                   | 24" HT X 24" SPRD.                        | **     | 24" o.c. | 194   |
| CLG        | CLUSIA GUTTIFERA<br>SMALL LEAF CLUSIA                                    | 36" HT. X 30" SPRD.                       | **     | 30" o.c. | 423   |
| FIM        | FICUS MICROCARPA `GREEN ISLAND`<br>GREEN ISLAND FICUS                    | 12" HT. X 12" SPRD.                       | **     | 16" o.c. | 1,344 |
| JAV        | JASMINUM VOLUBILE<br>WAX JASMINE   | 10" HT. X 16" SPRD.                       | **     | 24" o.c. | 953   |
| NEP        | NEPHROLEPIS EXALTATA<br>BOSTON FERN                                      | 12" HT X 14" SPRD., CERTIFIED NATIVE ONLY | N**    | 24" o.c. | 148   |
| РВМ        | PHILODENDRON X 'BURLE MARX'<br>BURLE MARX PHILODENDRON                   | 18" HT. X 18" SPRD.                       |        | 20" o.c. | 392   |
| PHR        | PHILODENDRON X 'ROJO CONGO'<br>ROJO CONGO PHILODENDRON                   | 24" HT. X 24" SPRD.                       |        | 30" o.c. | 114   |
| PSN        | PSYCHOTRIA NERVOSA<br>WILD COFFEE  | 24" HT. X 24" SPRD.                       | N**    | 24" o.c. | 63    |
| RON        | RONDELETIA LEUCOPHYLLA<br>PANAMA ROSE                                    | 24" HT X 24" SPRD, 24" OC                 | **     | 24" o.c. | 222   |
| TRD        | TRIPSACUM DACTYLOIDES<br>FAKAHATCHEE GRASS                               | 24" HT. X 16" SPRD.                       | N**    | 30" o.c. | 138   |
| ZAM        | ZAMIA PUMILA<br>COONTIE  | 12" HT. X 12" SPRD.                       | N**    | 24" o.c. | 118   |
| Ν          | DENOTES NATIVE SPECIES   |   |        |          |       |
| **         | DENOTES HIGH DROUGHT TOLERANT SHRUBS                                     |   |        |          |       |
| *          | DENOTED MODERATE DROUGHT TOLERANT SPECI                                  | ES  |        |          |       |
|            |  |   |        |          |       |

SIZE

3` HT X 3` SPRD.

4

PRC

NATIVE SPACING QTY

| R   | ]KE  | ITH                          | :08 AM       |
|---|--|------------------------------|--------------|
| 301 E   | ast Atlantic Blvc<br>Beach, FL 33<br>PH: (954) 788-3 | 1. Pompano<br>060<br>3400    | 3, 2020 9:40 |
| Florid<br>Lie   | a Certificate of Autho<br>censed Business Nun        | rization: 7928<br>nber: 6860 | ember 2      |
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|   |  |                              |              |
|   |  |                              |              |
| PF  | RELIMINARY   | PLAN                         |              |
| NOT<br>THESE F  | FOR CONST<br>PLANS ARE NOT FU                        | RUCTION                      |              |
|   | RE SUBJECT TO RE<br>ING THE PERMITTIN                | VISIONS MADE<br>G PROCESS.   |              |
| PLANS | RIOR TO OBTAINING                                    | S PERMITS FROM               |              |
| THE PRO   | JECT WILL FALL SC<br>USER.                           | DLELY UPON THE               |              |
| ISSUE DESIGN  |  | 05/17/21<br>IR MP            |              |
| DRAWN   | BY:  | JR, MP                       |              |
| CHECK   | ED BY:<br>NTRACT:                                    | MP                           |              |
|   |  |                              | X.dwg        |
|   |  |                              | 11-LP-1X     |
|   |  |                              | 11074.0      |
|   |  |                              | :ure\CAD     |
|   |  |                              | Architect    |
| MIC   | CHAEL J. PHILLI                                      | PS. R.L.A.                   | dscape /     |
| FLO   | RIDA REG. NO.<br>(FOR THE FII                        | LA0001540<br>RM)             | roup\Lan     |
| CLIENT  |  |                              | using G      |
|   |  |                              | nacle Ho     |
|   |  |                              | od - Pin     |
|   | GROUF  |                              | Hollywo      |
|   |  |                              | acle 441     |
|   |  |                              | 01 - Pinn    |
| PROJE   | СТ   |                              | 1/11074.     |
|   |  |                              | ame: N:\1    |
|   |  | · <i>1</i> /1                | rawing në    |
|   | HOLLYWC  | DOD                          |              |
|   |  |                              |              |
|   |  |                              |              |
| OUEET   |  |                              |              |
| SHEET   | IIILE  |                              |              |
|   |  |                              |              |
|   | LANDSCA  | <b>APE</b>                   |              |
|   | PLANT L  | ST                           |              |
|   |  |                              | 4C           |
|   |  |                              |              |
| SHEET<br>NUMBE  | <sub>r</sub> LP-'                                    | 102                          | TU           |
|   | ст 110 <sup>°</sup>                                  | 74.01                        | <b>JTA</b>   |
|   | N  |                              | 101          |

| PINNACLE 4                           | 441 LANDSCAPE            | E REQUIREMEN           | ITS              |
|--------------------------------------|--------------------------|------------------------|------------------|
| PROJECT INFORMATION:                 |                          |                        |                  |
| ZONING DESIGNATION                   |                          | C-JS-SR7               |                  |
| SITE AREA                            |                          | 132,642 SF             | 3.05 AC          |
| LANDSCAPE OPEN SPACE:                |                          | REQUIRED               | PROVIDED         |
| 15% of site area is required to be   | open space               |                        |                  |
| 132,642 SF                           | x 15% =                  | 19,896 SF              | 21,992 SF        |
| PARKING LOT LANDSCAPE ARE            | <u>A:</u>                | REQUIRED               | PROVIDED         |
| 190SF of landscape area per lan      | dscape island            |                        |                  |
|                                      | landscape island         |                        |                  |
| 12                                   | x 190 sf ≕               | 2,280 SF               | 2,966 SF         |
| TOTAL LANDSCAPE OPEN SPAC            | <u>E REQUIRED</u>        | REQUIRED               | PROVIDED         |
| Required Landscape Open Spac         | :e +                     |                        |                  |
| Required Parking Lot Landscape       | ·                        | 22,176 SF              | 23,303 SF        |
| MINIMUM LOT TREE REQUIREM            | IENT                     | REQUIRED               | PROVIDED         |
| 22 Trees per acre of net lot area    |                          |                        |                  |
| 3.05 AC                              | x 22 Trees =             | 67 TREES               | 109 TREES*       |
| NATIVE TREE REQUIREMENT              |                          | REQUIRED               | PROVIDED         |
| 60% of required trees to be native   | e                        | 21 TREES               | 38 TREES         |
| 50% to be low maintenance & dr       | ought tolerant           | 34 TREES               | 53 TREES         |
| SHRUB REQUIREMENT                    |                          | REQUIRED               | PROVIDED         |
| 10 Shrubs required per required      | tree                     | 670 SHRUBS             | 3,969 SHRUBS     |
| 30% of required shrubs to be nat     | ive                      | 201 SHRUBS             | 467 SHRUBS       |
| 50% to be low maintenance & dr       | ought tolerant           | 335 SHRUBS             | 3,600 SHRUBS     |
| <b>BUFFER TREES ( between dissim</b> | <u>ilar uses)</u>        | REQUIRED               | PROVIDED         |
| West Boundary - 1 tree per 30'       |                          |                        |                  |
| 330 LF                               | / 30 trees =             | 11 TREES               | 13 TREES         |
| South Boundary - 1 tree per 30'      |                          |                        |                  |
| 410 LF                               | / 30 trees =             | 14 TREES               | 14 TREES         |
| STREET TREES                         |                          | REQUIRED               | PROVIDED         |
| 1 tree required per 30 LF            |                          |                        |                  |
| 330 LF                               | SR 7 (441)               | 11 TREES               | 12 TREES         |
| 410 LF                               | Johnson Street           | 14 TREES               | 16 TREES         |
| * Due to the existing building and   | utility infrastructure ( | including existing lig | ht poles); Trees |
| have been proposed to the grea       | itest extent that spac   | e allows given these   | e limitations.   |
| **includes palms at 2:1              |                          |                        |                  |
|                                      |                          |                        |                  |

![](_page_26_Figure_0.jpeg)

|   |   | 5   |  |  |   |
|---|---|---|--|--|---|
| RAPS OF SISA<br>ADABLE MATE<br>AND SECURE<br>TO MIN (2) INI<br>LARGER CA<br>ATERAL BRANC<br>FALL AT BOTTO<br>ON 4"-6" LAYE<br>CTED PLANTING | L OR<br>RIAL<br>D TO<br>NER /<br>ANES<br>CHES<br>M OF<br>S MIX  | <ul> <li>SINGLE LEADER (NO<br/>CO-DOMINANT LEADERS, NO<br/>INCLUDED BARK)<br/>NOTE: TREES TO BE B&amp;B<br/>UNLESS SPECIFIED OTHERWISE<br/>ON PLAN</li> <li>"WELLINGTON" TAPE OR<br/>APPROVED EQUAL. 3 GUYS<br/>PER TREE, SPACED EQUALLY<br/>AND LOCATED ABOVE THE<br/>FIRST LATERAL BRANCHES;<br/>SECURE TO SISAL ROPE<br/>WRAPPED AROUND TRUNK</li> <li>TOP OF ROOTBALL TO BE EVEN<br/>OR 1" ABOVE FINISH GRADE</li> <li>3" SPECIFIED MULCH; MIN. 18"<br/>RADIUS FROM TRUNK, PULL<br/>BACK 6" FROM TRUNK</li> <li>ORANGE WARNING TAPE<br/>12" ABOVE GRADE</li> <li>4" HEIGHT CONTINUOUS SOIL<br/>BERM / RETENTION BASIN</li> <li>REBAR (#3) OR WOODEN<br/>STAKES (TYP) BURIED<br/>BELOW GRADE</li> <li>BACKFILL WITH SPECIFIED<br/>PLANTING MIX; REF. LP-201,<br/>SECTION M.</li> </ul>   | X       301 East At         Bea       PH:         Florida Certifi       Licensed B         NO.       DESCI         NO.       DESCI         NO.       DESCI         NO.       DESCI | A Contraction Cont | +<br>10 8 TE  |
|   |   | ONCE INSTALLED, REMOVE 1/3<br>BURLAP AND ALL WIRE AND<br>NON-BIODEGRADABLE  |  |  |   |
| SIN   | IGLE TRUNK  | MATERIAL FROM THE ROOTBALL  |  |  |   |
|   | EE PLAINTIING DE I  | AIL<br>NOT TO SCALE   | NOT FOR<br>THESE PLANS A<br>AND ARE SUB<br>DURING THE<br>RESPONSIBILIT<br>PLANS PRIOR TO<br>ALL AGENCIES H<br>THE PROJECT W  | CONSTRUCTION<br>ARE NOT FULLY PERMIT<br>JECT TO REVISIONS MA<br>PERMITTING PROCESS<br>TY FOR THE USE OF THE<br>O OBTAINING PERMITS F<br>HAVING JURISDICTION OF<br>ULL FALL SOLELY UPON<br>USER.  | ON<br>TED<br>DE<br>S.<br>ESE<br>FROM<br>OVER<br>N THE |
|   |   |   | DESIGNED BY  | /: JR  | , MP  |
|   | EDGE OF PAVEMENT  | $\backslash$  | CHECKED BY   | JR<br>:  | <u>, мр</u><br>МР                                     |
| EQUIREMENTS<br>DRANTS, SIAN<br>JD ANY OTHEF<br>JBLIC OR PRIV<br>THE AUTHOR<br>JILDING CODE<br>FIR<br>A<br>PLAN                              | APPLY TO FIRE<br>MESE CONNECTIONS<br>FIRE EQUIPMENT<br>TRE HOSE, ON<br>ATE PROPERTY.<br>TY OF THE FLORIDA<br>THE CLEAR AND<br>ALL OTHE<br>EXCEPTIONS:<br>EQUIPMENT OF<br>REVENT FIRE<br>BEING BLOCK | Vertical descentVertical descent <td>MICHAEL<br/>FLORIDA F<br/>(FC<br/>CLIENT<br/>PI<br/>H(</td> <td>J. PHILLIPS, R.L.A<br/>REG. NO. LA000154<br/>OR THE FIRM)<br/>NNACLE<br/>OUSING<br/>GROUP</td> <td>i0</td> | MICHAEL<br>FLORIDA F<br>(FC<br>CLIENT<br>PI<br>H(  | J. PHILLIPS, R.L.A<br>REG. NO. LA000154<br>OR THE FIRM)<br>NNACLE<br>OUSING<br>GROUP   | i0  |
|   |   |   | PROJECT<br>PINN<br>HOL   | NACLE 441<br>LYWOOD  |   |
|   |   |   | SHEET TITLE  |  |   |
|   |   |   | LANDSO   | CAPE DETAIL  | S   |
| <u>NOTE:</u><br>• REF. L<br>• ROOT<br>TYPE 0  | P-201, LANDSCAPE NOTES, FOR ADDITIONA<br>BALL SIZE FOR ALL TREES AND PALMS TO I<br>OF PALM PER FLORIDA GRADES AND STANI   | L REQUIREMENTS.<br>BE IN PROPORTION TO SIZE AND<br>DARDS FOR NURSERY PLANTS.  | SHEET  | P_501  |   |
|   |   |   | NUMBER<br>PROJECT  |  |   |
|   |   | -   | NUMBER   | 110/4.01   |   |

![](_page_27_Figure_0.jpeg)

1

|            |  | H                                   |
|------------|--|-------------------------------------|
| CONCF      | RETE   |                                     |
| KEY        | DESCRIPTION / MODEL                                    | COLOR                               |
| (C.1)      | GREY CONCRETE<br>SIDEWALKS                             | CITY OF<br>HOLLYWOO<br>STANDARD     |
| (C.2)      | SPECIALTY COLORED<br>CONCRETE                          | 1266 COOL (<br>CONCRETE             |
| <b>C.3</b> | SPECIALTY COLORED<br>CONCRETE                          | C-24 CHARC<br>CONCRETE              |
| C.4        | SPECIALTY COLORED<br>CONCRETE                          | TBD - 2' X 2'<br>SCORING<br>PATTERN |
| SITE FU    | JRNITURE   |                                     |
| (M.1)      | CONCRETE TRASH<br>RECEPTACLE - WAUSAU                  | GRAY                                |
| (M.2)      | CONCRETE BENCH<br>WAUSAU - OUR TOWN<br>72" X 24" X 18" | GRAY                                |
| M.3        | BIKE RACK<br>WAUSAU - RIDE<br>36" X 20" X 4"           | SILVER                              |
| (M.4)      | ADDAPAVE POROUS TREE PIT<br>PAVING                     | DOVE GREY P                         |
|            |  |                                     |

4

ADDAPAVE TREE PIT SYSTEM - PRODUCT NOTES ADDAPAVE IS A POROUS PAVING SYSTEM DES

- WALKABLE SURFACE THAT ACHIEVES A HIGH PENETRATION.
- ROOTBALL SHALL BE INSTALLED 4"-6" BELOW
- STRUCTURAL SOIL IS RECOMMENDED FOR NE CORRECTLY INSTALLED GEOTEXTILE WEED BA SOIL, ELIMINATING UPHEAVALS AND DAMAGE

BENEFITS OF ADDAPAVE:

- PERMEABLE
- HIGHLY DURABLE UV STABLE
- LOW MAINTENANCEAESTHETICALLY PLEASING
- NO TRASH COLLECTION AS SEEN WITH
- OPEN TREE GRATES
- NO LIABILITY AS A TRIPPING HAZARD

![](_page_27_Picture_13.jpeg)

3

|                   |  |  | SCALE USING BAR SC   | CALE<br>40<br>20'<br>SIZE MAY HAVE<br>NAL. VERIFY<br>ALE ABOVE. | 301 Eas<br>F<br>Florida C<br>Licens | t Atlantic Blvd.<br>Beach, FL 330<br>PH: (954) 788-34<br>ertificate of Authoriz<br>sed Business Numb<br>REVISIONS | Pompano<br>60<br>400<br>zation: 7928<br>ber: 6860 |
|-------------------|--|--|--|---|-------------------------------------|---|---|
|                   |  |  |  |   | NO. DE                              | SCRIPTION   | DATE  |
|                   |  |  |  |   |                                     |   |   |
|                   |  |  |  |   |                                     |   |   |
|                   |  |  |  |   |                                     |   |   |
|                   |  |  |  |   |                                     |   |   |
|                   |  |  |  |   |                                     |   |   |
|                   |  |  |  |   |                                     |   |   |
| HARD              | SCAPE MATEF                                | RIALS SCHEDULE   |  |   |                                     |   |   |
|                   | FINISH                                     | CONTACT  | REMARKS  |   |                                     | LIMINARY  |   |
| DOD<br>RD GREY    | MEDIUM BROOM<br>FINISH, SAW CUT<br>CONTROL | LOCAL SOURCE   |  |   | THESE PLA                           | NS ARE NOT FULL<br>SUBJECT TO REVI  | Y PERMITTED                                       |
| )L GRAY<br>TE     | MEDIUM BROOM<br>FINISH, SAW CUT            | COMPANY: SCOFIELD OR<br>APPROVED EQUAL   | - CONTRACTOR TO PROVIDE 6' X 6'<br>MOCKUP FOR REVIEW & APPROVAL                                |   | RESPONSI<br>PLANS PRIO              | BILITY FOR THE U  | SE OF THESE<br>PERMITS FROM                       |
|                   | CONTROL<br>JOINTS                          | PHONE: 1-800-800-9900<br>SCOFIELD.COM  | BY CLIENT AND LANDSCAPE<br>ARCHITECT.  |   | ALL AGENC                           | IES HAVING JURIS<br>CT WILL FALL SOL<br>USER.   | DICTION OVER                                      |
| \RCOAL            | MEDIUM BROOM<br>FINISH, SAW CUT            | COMPANY: SCOFIELD OR<br>APPROVED EQUAL   | - CONTRACTOR TO PROVIDE 6' X 6'<br>MOCKUP FOR REVIEW & APPROVAL                                |   | ISSUE DAT                           | re:   | 05/17/21  |
|                   | JOINTS                                     | PHONE: 1-800-800-9900<br>SCOFIELD.COM  | ARCHITECT.   |   |                                     | Y:<br>PV:   | JR, MP  |
| 2'                | MEDIUM BROOM<br>FINISH, SAW CUT            | COMPANY: SCOFIELD OR<br>APPROVED EQUAL<br>PHONE: 1-800-800-9900                            | - CONTRACTOR TO PROVIDE 6' X 6'<br>MOCKUP FOR REVIEW & APPROVAL                                |   | BID-CONT                            | RACT:   | IVIF  |
|                   | JOINTS                                     | SCOFIELD.COM   | ARCHITECT.   |   |                                     |   |   |
|                   | CONCRETE                                   |  |  |   |                                     |   |   |
|                   | CONCRETE                                   | COMPANY: WAUSAU<br>CONTACT: LUIS SALAZAR<br>PHONE: 800-388-8728<br>WEBSITE: WAUSAUTILE.COM | -SUBMIT SAMPLE AND PRODUCT<br>DATA FOR REVIEW & APPROVAL BY<br>LANDSCAPE ARCHITECT             |   |                                     |   |   |
|                   | CONCRETE                                   | COMPANY: WAUSAU<br>CONTACT: LUIS SALAZAR<br>PHONE: 800-388-8728                            | -SUBMIT SAMPLE AND PRODUCT<br>DATA FOR REVIEW & APPROVAL BY                                    |   |                                     |   |   |
|                   | METALLIC                                   | WEBSITE: WAUSAUTILE.COM  | -SUBMIT SAMPLE AND PRODUCT   |   | MICH                                |   |   |
|                   |  | CONTACT: LUIS SALAZAR<br>PHONE: 800-388-8728<br>WEBSITE: WAUSAUTILE.COM                    | DATA FOR REVIEW & APPROVAL BY<br>LANDSCAPE ARCHITECT   |   | FLORIE                              | DA REG. NO. L<br>(FOR THE FIR   | З, К.С.А.<br>A0001540<br>M)                       |
| PEBBLE            | STANDARD                                   | COMPANY: CHAMELEON WAYS<br>CONTACT: JAME KEENAN<br>PHONE: 877-426-5687                     | -SUBMIT PRODUCT DATA FOR<br>REVIEW & APPROVAL BY<br>LANDSCAPE ARCHITECT                        |   | CLIENT                              |   |   |
|                   |  | EMAIL:<br>INFO@CHAMELEONWAYS.COM   |  |   |                                     |   | E   |
|                   |  |  |  |   |                                     | HOUSIN  | G   |
|                   |  |  |  |   |                                     | GROUP   |   |
| <u>ES:</u>        |  |  | S IN SUCH A WAY TO OPEATE A  |   |                                     |   |   |
| HLY PO            | ROUS SURFACE, A                            | ALLOWING THE TREE ROOTS A  | CCESS TO BOTH AIR AND WATER  |   | PROJECT                             |   |   |
| W THE C<br>NEW TR | ESIRED FINISHED                            | ) GRADE OF THE POUROUS SU  | RFACE MATERIAL.<br>BILITY OF FUTURE SETTLEMENT.  |   |                                     |   |   |
| BARRIE<br>E TO CI | R BETWEEN DRAI                             | INGE ROCK AND ROOTBALL PR<br>URE.  | EVENTS UPWARD MIGRATION OF   |   | PI                                  | NNACLE  | 441   |
|                   | A  |  |  |   | Н                                   | OLLYWO  | OD  |
|                   | NUMB                                       | GROWTH OF TREE AND<br>LAYER AROUND TRUN  | AGGREGATE WEDGE (ALLOWS FOR<br>) EASY TRIMMING OF SURFACE<br>( AS NEEDED).                     |   |                                     |   |   |
|                   |  |  | EON WAYS ADDAPAVE<br>T, 3" DEPTH   |   |                                     |   |   |
|                   |  | #57 STG  | DNE, 3" DEPTH  |   | SHEET TI                            | <b>FLE</b>  |   |
|                   |  |  |  |   |                                     |   |   |
| <u>79905</u>      |  |  |  |   | HAF                                 | RDSCAPE   | PLAN  |
|                   |  |  | EOTEXTILE FABRIC (MUST BE WATER  | ł   |                                     |   |   |
|                   |  | F F  | ERMEABLE AND DESIGNED TO<br>REVENT FINE DIRT PARTICLES FROM<br>IIGRATING INTO THE DRAINAGE ROC | ()  |                                     |   |   |
|                   |  |  | 2 CU-STRUCTURAL SOIL WHERE<br>H-XXX APPLICABLE; REF. PLAN                                      |   | SHEET                               |   | 01  |
|                   |  |  |  |   |                                     | LH-1  |   |
|                   |  |  |  |   | NUMBER                              | 1107  | 4.01  |

![](_page_28_Figure_0.jpeg)

|               | GRAPHIC SCALE | Solution       Solution         Solut |
|---------------|---------------|---|
| (US 441)      |               | PRELIMINARY PLAN         MINING THE PERMITTED         AND ARE SUBJECT TO REVISIONS MADE         DURING THE PERMITTING PROCESS.         RESPONSIBILITY FOR THE USE OF THESE         PLANS PRIOR TO OBTAINING PERMITS FROM         ALL AGENCIES HAVING JURISDICTION OVER         THE PROJECT WILL FALL SOLELY UPON THE         USER.         ISSUE DATE:       05/17/21         DESIGNED BY:       JR, MP         DRAWN BY:       JR, MP         CHECKED BY:       MP         BID-CONTRACT:       MINING PERMITE  |
| STATE ROAD 7  |               | MICHAEL J. PHILLIPS, R.L.A.<br>FLORIDA REG. NO. LA0001540<br>(FOR THE FIRM)<br>CLIENT<br>PINNACLE<br>HOUSING<br>GROUP   |
|               |               | PROJECT<br>PINNACLE 441<br>HOLLYWOOD  |
| EX.12" PVC SS |               | SHEET TITLE   |
|               |               | SHEET<br>NUMBER LI-101<br>PROJECT<br>NUMBER 11074.01  |

![](_page_29_Figure_0.jpeg)

3

### LANDSCAPING NOTES

- 1. THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL REQUIRED TO MAKE THE SYSTEM FUNCTION PROPERLY. ALL IRRIGATION SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND ALSO STATE AND/OR LOCAL CODES.
- 2. IRRIGATION PLANS ARE SCHEMATIC AND DRAWN FOR GRAPHIC CLARITY. ALL PIPING BELOW PAVEMENT SHALL BE SLEEVED. LAYOUT OF IRRIGATION SYSTEM SHALL BE COORDINATED WITH CORRESPONDING LANDSCAPE PLAN.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOCAL UNDERGROUND UTILITY PROVIDERS TO VERIFY LOCATIONS. THE CONTRACTOR IS ENCOURAGED TO VISIT THE SITE PRIOR TO INSTALLATION AND BECOME FAMILIAR WITH EXISTING CONDITIONS.
- 4. VALVE LOCATIONS ARE SCHEMATIC ONLY AND WILL BE ADJUSTED FOR SITE CONDITIONS. EACH VALVE SHALL BE INSTALLED IN A AMETEK OR CARSON VALVE BOX. THE FLOW ADJUSTMENT FEATURE WILL BE USED TO BALANCE PRESSURE THROUGHOUT THE SYSTEM.
- 5. PIPING SHALL BE SIZED TO MINIMIZE FRICTION LOSS AND MAINTAIN FLOW VELOCITY BELOW 5 FPS.
- 6. THE IRRIGATION CONTROLLER SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. PROPER GROUNDING EQUIPMENT AND SURGE PROTECTION SHALL BE PROVIDED. A RAIN SENSOR SHALL BE INSTALLED TO OVER-RIDE THE CONTROLLER.
- 7. ALL HEADS ON RISERS SHALL BE SET AT THE HEIGHT OF ADJACENT PLANT MATERIAL
- 8. SPRINKLER LOCATIONS ADJACENT TO PAVEMENT, STRUCTURES, FENCES, ETC. SHALL BE OFFSET AS FOLLOWS: 12" MIN FOR POP-UP MIST HEADS, 18" FOR SHRUB RISERS, 18" FOR ROTOR HEADS, AND TYPICALLY 5 FEET FOR ROTORS ALONG UNCURBED ROADWAYS.
- 9. ALL SLEEVING SHALL BE SCH 40 PVC TO SIZE INDICATED ON PLAN, OR IF NOT INDICATED, A MIN. OF 2 PIPE SIZES LARGER THAN SUPPLY LINE CONTAINED. ALL SLEEVES SHALL BE INSTALLED A MIN. OF 24" BELOW FINISH GRADE.
- 10. CONTROL WIRES SHALL BE UL APPROVED PE IRRIGATION CONTROL WIRE. USE 14 GAGE CONTROL WIRE AND 12 GAGE GROUND WIRE. WIRE SHALL BE BUNDLED AND ATTACHED TO THE MAIN LINE IN TRENCH OR THROUGH WIRE SLEEVES AT PAVEMENT CROSSINGS 24" BELOW FIN. GRADE. ALL SPLICES SHALL BE MADE WITH WATERPROOF DIRECT-BURIAL SPLICE KITS AND CONTAINED IN VALVE BOXES. TWO EXTRA CONTROL WIRES SHALL BE INSTALLED TO THE FURTHEST VALVES IN EACH DIRECTION FROM THE CONTROLLER.
- 11. PIPING IN NARROW PLANTING AREAS, PARKING ISLANDS AND PLANTERS SHALL BE SET TO ONE SIDE TO ALLOW ROOM FOR ROOT BALLS. PIPE AS INDICATED ON PLAN IS SCHEMATIC AND SHOULD BE ADJUSTED FOR FIELD CONDITIONS.
- 12. ALL GLUE JOINTS SHALL BE CLEANED, SANDED, AND TREATED WITH A COLORED HIGH ETCH PRIMER AND JOINED USING A SOLVENT CONFORMING WITH ASTM D2564.
- 13. SYSTEM PIPE SIZE 3/4" SHALL BE CLASS 200 PVC; SYSTEM PIPE SIZE 1" OR GREATER SHALL BE CLASS 160 PVC. SYSTEM MAIN WILL BE SCH. 40 PVC TO SIZE INDICATED ON PLAN. ALL FITTINGS WILL BE SOLVENT WELD SCH 40 PVC. MAIN LINE SHALL HAVE 24" MINIMUM COVER; ALL OTHER PIPING WILL HAVE 12" MIN. COVER. ALL BACKFILL FOR PIPE TRENCHES SHALL BE CLEAN AND FREE OF FOREIGN DEBRIS AND SHARP OBJECTS; BACKFILLED TRENCHES SHALL BE PROPERLY COMPACTED. ALL MAIN LINES WILL BE INSTALLED A MIN. OF 3' FROM ANY TREE OR PALM.
- 14. WATERING TIME PER STATION WILL BE DETERMINED IN THE FIELD AND PER LOCAL REQUIREMENTS. REFER TO MANUFACTURER'S INSTRUCTIONS FOR PRECIPITATION RATES OF SPRINKLERS SPECIFIED.
- 15. IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE WITH 100% OVERLAP MIN. PROVIDE BUBBLERS FOR ALL NEW AND RELOCATED TREES AND PALMS.
- 16. RUST CONTROL SYSTEM TO BE INSTALLED WITH PUMP STATION (IF FROM WELL).
- 17. THE IRRIGATION SYSTEM IN THE RIGHT-OF-WAY IS TO INCORPORATE LOW TRAJECTORY SPRAY HEADS TO MINIMIZE OVERSPRAY.
- 18. AS-BUILT DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AND GIVEN TO THE OWNER PRIOR TO FINAL ACCEPTANCE. E SHALL BE LEFT IN A NEAT AND PRESENTABLE CONDITION SATISFACTORY TO THE OWNER PRIOR TO SUBMITTAL OF THE FINAL PAYMENT.

|   | Beach, FL 330   | l. Pompano<br>)60<br>2400   |
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| NC<br>THI<br>A<br>RE<br>PLA<br>ALL<br>THE | PRELIMINARY<br>OT FOR CONST<br>ESE PLANS ARE NOT FUL<br>ND ARE SUBJECT TO REV<br>DURING THE PERMITTING<br>SPONSIBILITY FOR THE IN<br>NS PRIOR TO OBTAINING<br>AGENCIES HAVING JURI<br>PROJECT WILL FALL SO<br>USER. | PLAN<br>RUCTION<br>LY PERMITTED<br>VISIONS MADE<br>S PROCESS.<br>USE OF THESE<br>PERMITS FROM<br>SDICTION OVER<br>LELY UPON THE |
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![](_page_30_Figure_0.jpeg)

![](_page_30_Figure_1.jpeg)