ATTACHMENT I

Application Package

PLANNING DIVISION

2600 Hollywood Boulevard Room 315
Hollywood, FL 33022

File No. (internal use only): _____

GENERAL APPLICATION

CITY OF Hollywood FLORIDA

Tel: (954) 921-3471
Fax: (954) 921-3347

This application must be completed in full and submitted with all documents to be placed on a Board or Committee's agenda.

The applicant is responsible for obtaining the appropriate checklist for each type of application.

Applicant(s) or their authorized legal agent must be present at all Board or Committee meetings.

At least one set of the submitted plans for each application must be signed and sealed (i.e. Architect or Engineer).

Documents and forms can be accessed on the City's website at

http://www.hollywoodfl.org/DocumentCenter/Home/View/21

APPLICATION TYPE (CHECK ONE):

☐ Technical Advisory Committee ☐ Historic Preservation Board
☐ City Commission ☒ Planning and Development Board

Date of Application: October 31, 2018

Location Address: 3553 N State Road 7, Hollywood FL 33021
Lot(s): N/A Block(s): N/A Subdivision: N/A
Folio Number(s): 5141 01 00 0130
Zoning Classification: N-MU Land Use Classification: TOC - SR7
Existing Property Use: Vacant Sq Ft/Number of Units: N/A
Is the request the result of a violation notice? ( ) Yes (X) No If yes, attach a copy of violation.
Has this property been presented to the City before? If yes, check al that apply and provide File Number(s) and Resolution(s): 14-DPS-73

☒ Economic Roundtable ☒ Technical Advisory Committee ☐ Historic Preservation Board
☐ City Commission ☒ Planning and Development

Explanation of Request: Site Plan approval request for a private passive park ("Institutional") with traditional chickee hut shade structures, parking, landscaping and drainage.

Number of units/rooms: N/A Sq Ft: N/A
Value of Improvement: _____ Estimated Date of Completion: January 2019
Will Project be Phased? ( ) Yes (X) No If Phased, Estimated Completion of Each Phase

Name of Current Property Owner: S T O F Holdings Limited
Address of Property Owner: 6300 Stirling Road, Hollywood, FL 33024
Telephone: (954) 966-6300 Fax: _____ Email Address: _____
Name of Consultant/Representative/Tenant (circle one): Michelle Diffenderfer, Esq.
Address: 515 N. Flagler Dr. Ste. 1500; W.Palm Beach, FL 33401 Telephone: (561) 640-0820
Fax: (561) 640-8202 Email Address: mdiffenderfer@LLW-LAW.com
Date of Purchase: 2/11/2009 Is there an option to purchase the Property? Yes ( ) No ( )
If Yes, Attach Copy of the Contract.
List Anyone Else Who Should Receive Notice of the Hearing: Seth Behn, Esq.
Address: 515 N. Flagler Dr. Ste. 1500; W.Palm Beach, FL 33401
Email Address: sbehn@LLW-LAW.com

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GENERAL APPLICATION

CERTIFICATION OF COMPLIANCE WITH APPLICABLE REGULATIONS

The applicant/owner(s) signature certifies that he/she has been made aware of the criteria, regulations and guidelines applicable to the request. This information can be obtained in Room 315 of City Hall or on our website at www.hollywoodfl.org. The owner(s) further certifies that when required by applicable law, including but not limited to the City's Zoning and Land Development Regulations, they will post the site with a sign provided by the Office of Planning and Development Services. The owner(s) will photograph the sign the day of posting and submit photographs to the Office of Planning and Development Services as required by applicable law. Failure to post the sign will result in violation of State and Municipal Notification Requirements and Laws.

(I)(We) certify that (I) (we) understand and will comply with the provisions and regulations of the City's Zoning and Land Development Regulations, Design Guidelines, Design Guidelines for Historic Properties and City's Comprehensive Plan as they apply to this project. (I)(We) further certify that the above statements and drawings made on any paper or plans submitted herewith are true to the best of (my)(our) knowledge. (I)(We) understand that the application and attachments become part of the official public records of the City and are not returnable.

Signature of Current Owner: [signature] Date: 11-14-18

PRINT NAME: Jennifer Kolakowski Date: 11-14-18

Signature of Consultant/Representative:_____ Date: _____

PRINT NAME:_____ Date: _____

Signature of Tenant: _____ Date: _____

PRINT NAME:_____ Date:_____

Current Owner Power of Attorney

I am the current owner of the described real property and that I am aware of the nature and effect the request for Site Plan Approval to my property, which is hereby made by me or I am hereby authorizing Michelle Diffenderfer / Lewis, Longman & Walker, P.A. to be my legal representative before the TAC and Planning Board (Board and/or Committee) relative to all matters concerning this application.

Sworn to and subscribed before me
this 14th day of November

[signature]
Notary Public
State of Florida

GABRIELLA RAMIREZ
MY COMMISSION # FF908865
EXPIRES August 12, 2019
(407) 398-0153 FloridaNotaryService.com

[signature]
Signature of Current Owner

Jennifer Kolakowski
Print Name

My Commission Expires: 8/12/19 (Check One) ✓ Personally known to me; OR ___ Produced Identification _____

LEGAL DESCRIPTION

Address
3553 N State Road 7, Hollywood, FL

Parcel ID Number
51-41-01-00-0130

Legal
THE SOUTH 348.5 FEET OF THE WEST 660 FEET OF THE NORTHWEST ¼ OF THE NORTHEAST ¼ OF SECTION 1, TOWNSHIP 51 SOUTH, RANGE 41 EAST, EXCEPTING THEREFROM THE WEST 35 FEET THEREOF FOR HIGHWAY PURPOSES. SAID LANDS SITUATE, LYING AND BEING IN BROWARD COUNTY, FLORIDA.

Project Narrative and Criteria Statement
Seminole Village / 3553 State Road 7
City of Hollywood Planning and Development Board

Meeting Date: December 13, 2018

PROJECT OVERVIEW

The Seminole Tribe of Florida, through one of its wholly-owned entities, S.T.O.F. Holdings, Ltd., is the owner of the property located at 3553 S.R. 7, in Hollywood, Florida. (the "Property"). The Property contains approximately 5 acres and is located on the east side of State Road 7 approximately ¼ mile south of Stirling Road. The site is within the City's newly adopted North Mixed Use ("N-MU") zoning district, and the Transit Oriented Corridor for State Road 7.

The Seminole Tribe intends to convert the site into a passive recreational park and outdoor gathering space for use primarily by Tribal members. A significant group of Tribal members live and/or work in close proximity to the Property. This use is a permitted use in the N-MU zoning district as an "Institutional" use. Occasional public events are envisioned such as outdoor art, craft, and cultural fairs. The scale of these events will be limited by the relatively modest parking proposed on the site.

The plans for the park will feature traditional Seminole chickees along a walking path, located so as to avoid any impacts to the mature trees on the site. Additional landscaping will be introduced along SR 7 to buffer the parking area. Access to the property and parking will be controlled with security gates. Use of the park will generally be limited to daytime use, but security lighting will be provided in the parking lot. A large dry detention area will be located between the parking area and the park to provide stormwater management.

The Property frontage along State Road 7 was previously improved with two retail structures, but now the entire Property is vacant. The eastern two-thirds of the Property feature a significant mature tree canopy that will be preserved. The Property is surrounded on all sides by either Federal lands held in trust for the Seminole Tribe, or property directly under the Seminole Tribe's ownership.

DESIGN CRITERIA

In designing the park, particular attention was given to the enumerated design criteria in the City of Hollywood code.

(1) Architectural and Design components

While the only structures proposed for the site consist of shade structures in the form of traditional chickees, their siting and the overall layout was prepared in consideration of the neighborhood, sensitivity to the pedestrian realm, and the aesthetics of the public spaces along the adjacent right of way.

(2) Compatibility

The site design, and general passive nature of the proposed use create no compatibility issues with the surrounding uses or structures. Vehicular and pedestrian circulation has been designed to insure that there are no safety issues or negative impacts to surrounding properties.

(3) Scale/Massing

The site presents no issues with scale or massing. The chickee structures are limited in scale and height posing virtually no impacts on the surrounding area. Perimeter landscaping provides further buffering to the surrounding properties.

(4) Landscaping

The site was carefully designed to preserve all of the significant vegetation on the site, including the shaping of the dry detention area around a mature oak. Dense landscaping along State Road 7 provides a significant buffer and aesthetic improvement along the right of way, shielding the limited parking from the adjacent right of way.

CONCLUSION

The proposed site plan for the Property conforms to the requirements of the City of Hollywood's Zoning and Land Development Regulations. The use will create no negative impacts on the surrounding properties and will not degrade the health, safety and welfare of the City's citizens and visitors. The Property will provide valuable open space in an otherwise largely developed corridor and will be an amenity to the Seminole Tribe as well as the public. In light of these findings, we respectfully request the approval of the proposed site plan.

SEMINOLE VILLAGE

HOLLYWOOD, FLORIDA

SEMINOLE TRIBE OF FLORIDA

PLANNING BOARD REVIEW

SUBMITTED: MARCH 14, 2019

TOWNSHIP 51 S, RANGE 41 E, SECTION 1
BROWARD COUNTY, FLORIDA

LOCATION MAP

SCALE: 1" = 500'

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SHEET INDEX

NO.	TITLE	DESCRIPTION
		CIVIL
0	COV-1	COVER SHEET
1	SPC-1	SPECIFICATION SHEET
2	DEM-1	EXISTING CONDITION AND DEMOLITION PLAN
3	SP-1	SITE PLAN
4	SPD-1	SITE DETAILS
5	SPD-2	SITE DETAILS
6	PGD-1	PAVING GRADING AND DRAINAGE
7	PDD-1	PAVING GRADING AND DRAINAGE DETAILS
8	WS-1	WATER AND SEWER PLAN
9	WSD-1	WATER AND SEWER DETAILS
10	WSD-2	WATER AND SEWER DETAILS
11	SM-1	SIGNAGE & PAVEMENT MARKING PLAN
12	PPP-1	STORMWATER POLLUTION PREVENTION PLAN
13	PPD-1	STORMWATER POLLUTION PREVENTION DETAILS
		LANDSCAPE
14	TDP-1	TREE PRESERVATION PLAN
15	LNP-1	LANDSCAPE PLAN
16	LNP-2	LANDSCAPE DETAILS
17	LNP-3	LANDSCAPE SPECIFICATIONS
18	IRR-1	IRRIGATION PLAN
19	IRR-2	IRRIGATION DETAILS
20	IRR-3	IRRIGATION SPECIFICATIONS
21	PHO-1	PHOTOMETRICS PLAN
22	PHO-2	PHOTOMETRICS DETAILS

CHEN•MOORE &ASSOCIATES
2103 Coral Way
Suite 401
Miami, FL 33145
Tel: (786)497-1500
Fax: (786) 497-2300

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APPLICABLE CODES

A. GENERAL
ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF SEMINOLE TRIBE OF FLORIDA (STOF), CITY OF HOLLYWOOD (COH), SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD), AND ALL OTHER LOCAL AND NATIONAL CODES WHERE APPLICABLE.

B. CONSTRUCTION SAFETY
ALL CONSTRUCTION SHALL BE PERFORMED IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE STRICTLY OBSERVED.

C. TRENCH SAFETY ACT
1. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF FLORIDA TRENCH SAFETY ACT.
2. WHERE EXCAVATIONS TO A DEPTH IN EXCESS OF FIVE FEET (5') ARE REQUIRED, THE CONTRACTOR SHALL INCLUDE THE FOLLOWING INFORMATION IN THE BID:
   a. A REFERENCE TO THE TRENCH SAFETY STANDARDS THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.
   b. WRITTEN ASSURANCES BY THE CONTRACTOR PERFORMING THE TRENCH EXCAVATION THAT SUCH CONTRACTOR WILL COMPLY WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
   c. A SEPARATE ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
3. WHEN A BID IS NOT SUBMITTED, THE CONTRACTOR SHALL SUBMIT THE INFORMATION LISTED IN ITEM 2 TO THE ENGINEER PRIOR TO STARTING WORK.

D. SURVEY DATA
ALL ELEVATIONS ON THE PLANS REFERENCED IN THE SPECIFICATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD) 1988.

PRECONSTRUCTION RESPONSIBILITIES

A. UPON RECEIPT OF NOTICE OF AWARD AND AFTER OBTAINING AN ENGINEERING CONSTRUCTION PERMIT FROM THE CITY OF HOLLYWOOD (COH), THE CONTRACTOR SHALL ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE THE SEMINOLE TRIBE OF FLORIDA (STOF), CITY OF HOLLYWOOD, ENGINEER, A UTILITY REPRESENTATIVE, AND THE ENGINEER OF RECORD.

B. THE CONTRACTOR SHALL OBTAIN A "SUNSHINE ONE CALL" CERTIFICATION NUMBER AND NOTIFY THE UTILITIES DEPARTMENT AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION.

C. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.

D. EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES SHOWN OR FOR ANY EXISTING UTILITIES NOT SHOWN.

E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH IT FAILS TO REQUEST LOCATIONS FROM THE UTILITY OWNER. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY LOCATED.

F. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.

INSPECTIONS

A. THE CONTRACTOR SHALL NOTIFY THE SEMINOLE TRIBE OF FLORIDA (STOF), AND THE ENGINEER OF RECORD AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND PRIOR TO THE INSPECTION OF THE FOLLOWING ITEMS:
1. SANITARY SEWER
2. STORM DRAINAGE
3. WATER SYSTEM
4. SUB-GRADE
5. LIMEROCK BASE
6. ASPHALTIC CONCRETE
7. FINAL

B. ALL INSPECTIONS WILL BE MADE BY THE SEMINOLE TRIBE OF FLORIDA (STOF). THE ENGINEER OF RECORD WILL PROVIDE CONSTRUCTION OBSERVATION SERVICE.

SHOP DRAWINGS

A. PRIOR TO CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER OF RECORD FOR SANITARY MANHOLES, CATCH BASINS, FIRE HYDRANTS, VALVES AND OTHER ACCESSORIES. CATALOGUE LITERATURE SHALL BE SUBMITTED FOR WATER AND SEWER PIPES, FITTINGS, AND APPURTENANCES.

B. 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.

C. INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST STRUCTURES ARE REQUIRED. CATALOGUE LITERATURE WILL NOT BE ACCEPTED FOR PRECAST STRUCTURES.

TEMPORARY FACILITIES

A. TEMPORARY UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY TO ITS EMPLOYEES AND SUBCONTRACTORS FOR THEIR USE DURING CONSTRUCTION.

B. TRAFFIC REGULATION
1. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE MUTCD, FDOT AND APPROVED BY THE SEMINOLE TRIBE OF FLORIDA (STOF).
2. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
3. NO TRENCHES OR HOLES NEAR WALKWAYS OR IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION OF THE SEMINOLE TRIBE OF FLORIDA (STOF).

PROJECT CLOSEOUT

A. CLEANING UP
1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEPT BROOM CLEAN.
2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE ENGINEER OR SEMINOLE TRIBE OF FLORIDA (STOF), ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY ITS WORK, EQUIPMENT, EMPLOYEES OR THOSE OF ITS SUBCONTRACTORS TO A CONDITION AT LEAST EQUAL OR BETTER TO THE EXISTING CONDITION IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THIS END, THE CONTRACTOR SHALL DO ALL NECESSARY HIGHWAY OR DRIVEWAY, WALK AND LANDSCAPING WORK. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
3. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.

B. PROJECT RECORD DOCUMENTS
1. THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF WORK ITEMS COMPLETED.
2. PRIOR TO THE PLACEMENT OF ANY ASPHALT OR CONCRETE PAVEMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER "AS-BUILT" PLANS SHOWING LIMEROCK BASE GRADES, ALL DRAINAGE AND WATER IMPROVEMENTS. PAVING OPERATIONS SHALL NOT COMMENCE UNTIL THE ENGINEER HAS REVIEWED THE "AS- BUILTS".
3. ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR SUB- GRADE SHALL BE PROVIDED TO THE ENGINEER PRIOR TO PLACING LIMEROCK BASE MATERIAL.
4. ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR LIMEROCK SHALL BE PROVIDED TO THE ENGINEER PRIOR TO PLACING ASPHALT.
5. ALL "AS-BUILT" INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO SATISFY THE ENGINEER THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.
6. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD COMPLETE SETS OF "AS-BUILT" CONSTRUCTION DRAWINGS AS REQUIRED FOR SUBMITTAL AND APPROVAL. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND SHALL BE SIGNED AND SEALED BY A REGISTERED LAND SURVEYOR.
7. ALL "AS-BUILT" INFORMATION ON ELEVATIONS OF WATER, PAVING, AND DRAINAGE SHALL BE CERTIFIED BY A REGISTERED LAND SURVEYOR.
8. AS-BUILT INFORMATION ON THE WATER SYSTEM SHALL INCLUDE LOCATIONS OF ALL VALVES, FITTINGS, FIRE HYDRANTS, WATER SERVICES AND TOP OF PIPE ELEVATIONS AT ALL FITTINGS AND AT A MINIMUM OF 100' SPACING.
9. AS-BUILT INFORMATION ON THE SANITARY SEWER SYSTEM SHALL INCLUDE LOCATIONS OF ALL VALUES, FITTINGS, CLEANOUTS, AND TOP OF PIPE ELEVATIONS AT ALL FITTINGS AND AT A MINIMUM SPACING OF 50' BETWEEN ELEVATIONS.

EARTHWORK

A. GENERAL
1. NONE OF THE EXISTING MATERIAL IS TO BE INCORPORATED IN THE LIMEROCK BASE.
2. ALL SUB-GRADE UNDER PAVED AREAS SHALL BE 12" THICK AND HAVE A MINIMUM LBR VALUE OF 40 AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
3. ALL FILL MATERIAL IN AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
4. A 2" BLANKET OF TOP SOIL SHALL BE PLACED OVER ALL AREAS TO BE SODDED.
5. SOD SHALL BE ST. AUGUSTINE, BITTER BLUE OR FLORATAM AND SHALL BE PLACED ON THE GRADED TOP SOIL AND WATERED TO INSURE SATISFACTORY CONDITION UPON FINAL ACCEPTANCE OF THE PROJECT.
6. WHEN WORKING IN AND AROUND EXISTING DRAINAGE CANALS OR LAKES, APPROPRIATE SILT BARRIERS SHALL BE INSTALLED.

B. ON-SITE
1. ALL ORGANIC AND OTHER UNSUITABLE MATERIAL UNDER THOSE AREAS TO BE PAVED SHALL BE REMOVED TO A DEPTH OF THREE (3) FEET BELOW FINISHED GRADE AND FOR THREE (3) FEET BEYOND THE PERIMETER OF THE PAVING.
2. SUITABLE BACKFILL SHALL BE MINIMUM LBR 40 MATERIAL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 THREE (3) FEET BEYOND THE PERIMETER OF THE PAVING.

STORM DRAINAGE

A. CONCRETE PIPE FOR STORM SEWERS SHALL CONFORM TO ASTM L76-79, TABLE III, WALL B, OR LATEST REVISION. ALL PIPE SHALL HAVE MODIFIED TONGUE AND GROOVE JOINTS, AND HAVE RUBBER GASKETS, UNLESS OTHERWISE SPECIFIED.

B. BEDDING AND INITIAL BACKFILL OVER DRAINAGE PIPE SHALL BE SAND WITH NO ROCK LARGER THAN 1" DIAMETER.

C. BACKFILL MATERIAL UNDER PAVED AREAS SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

D. BACKFILL MATERIAL UNDER AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

E. DRAINAGE STRUCTURES AND LINES TO BE CLEANED PRIOR TO ENGINEER'S ACCEPTANCE.

F. DRAINAGE STRUCTURES TO BE CLEANED PRIOR TO STOF ACCEPTANCE IF LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY.

G. NO CATCH BASINS OR JUNCTION BOXES SHALL BE LOCATED IN DRIVEWAYS.

PAVING

A. GENERAL
1. ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO THE CONSTRUCTION OF THE LIMEROCK BASE AND PRIOR TO THE PLACEMENT OF THE PAVEMENT.
2. CONCRETE SIDEWALKS SHALL BE SIX (6) INCHES THICK WITH EIGHT (8) THICKENED EDGE. SIDEWALK SUB-GRADE SHALL BE GRUBBED, COMPLETELY DEMUCKED AND COMPACTED TO 98% OF MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T-180. OPEN TYPE EXPANSION JOINTS SHALL BE USED. SIDEWALK MUST BE SEPARATE FROM THE TRAVEL WAY AND CONSTRUCTED IN ACCORDANCE WITH THE FDOT ROADWAY AND TRAFFIC DESIGNS STANDARDS INDEX 310.
3. MINIMUM LONGITUDINAL SLOPE OF PAVEMENT SHALL BE 0.5%.
4. MINIMUM TRANSVERSE SLOPE OF PAVEMENT SHALL BE AT 1.5% FOR ROADWAYS AND GENERALLY 0.5% FOR PARKING AREAS.

B. MATERIALS
1. SUBGRADE MATERIAL SUPPORTING THE ROADWAY AND SHOULDERS SHALL HAVE A MINIMUM LIMEROCK BEARING RATIO (LBR) OF 40. THE STABILIZED SUB-GRADE SHALL BE TWELVE (12) INCHES COMPACTED TO 98% OF MAXIMUM DRY DENSITY AS PER ASHTO T-180.
2. LIMEROCK BASE MATERIAL SHALL HAVE A MINIMUM OF 60% CARBONATES (CALCIUM AND MAGNESIUM) WITH A MINIMUM LBR OF 100.
3. PRIME COAT SHALL BE APPLIED AT THE RATE OF 0.25 GAL/YD SQ. AND TACK COAT SHALL MEET FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARDS.
4. SURFACE COURSE SHALL BE EQUAL TO FDOT TYPE S-1 AND S-3 ASPHALTIC CONCRETE.

C. INSTALLATION
1. LIMEROCK BASE MATERIAL SHALL BE 8" THICK AND COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
2. LIMEROCK BASE MATERIAL SHALL BE PLACED IN MAXIMUM 6" LIFTS. BASES GREATER THAN 6" SHALL BE PLACED IN TWO OR MORE EQUAL LIFTS. LIMEROCK BASE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
3. ASPHALTIC CONCRETE SHALL BE (2) 3/4" LIFTS OF TYPE S-3 ASPHALTIC CONCRETE.
4. FOR ASPHALT CONCRETE INSTALLED WITHIN STOF RIGHT OF WAY THE WEARING SURFACE SHALL BE TWO (2) INCHES APPLIED IN TWO LIFTS. FIRST LIFT TO BE 1-1/4" TYPE S1. SECOND LIFT TO BE 3/4" TYPE S3. TACK COAT TO BE USED BETWEEN PAVING LIFTS.
5. PRIME COAT SHALL BE PLACED ON ALL LIMEROCK BASES IN ACCORDANCE WITH FDOT STANDARDS.
6. TACK COAT SHALL BE PLACED AS REQUIRED IN ACCORDANCE WITH FDOT STANDARDS.

D. TESTING ALL SUB-GRADE, LIMEROCK AND ASPHALT TESTS REQUIRED SHALL BE TAKEN AT THE DIRECTION OF THE ENGINEER. LABORATORY PROCTOR COMPACTION TESTS (T-180) SHALL BE PERFORMED ON ALL MATERIAL, SUB-GRADE AND BASE AND ANY SUBSEQUENT CHANGES IN MATERIALS. LIMEROCK BEARING RATIOS, SIEVE ANALYSIS AND DENSITIES REQUIRED BY THE CONTRACT DOCUMENTS SHALL BE SUBMITTED TO THE ENGINEER.

SIGNING AND MARKING

A. ALL PAVEMENT MARKING SHALL BE HOT APPLIED THERMOPLASTIC MANUFACTURED AND APPLIED IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION SECTION 711, LATEST EDITION.

B. ALL SIGNS SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

C. REFLECTIVE PAVEMENT MARKERS SHALL BE CLASS B MARKERS MANUFACTURED IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 706, LATEST EDITION AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PROCEDURES.

WATER DISTRIBUTION SYSTEM

A. GENERAL
1. THE CONTRACTOR SHALL NOTIFY THE SEMINOLE TRIBE OF FLORIDA (STOF) AND THE ENGINEER OF RECORD NO LATER THAN 48 HOURS PRIOR TO MAKING CONNECTIONS TO EXISTING SYSTEMS.
2. ALL WATER AND IRRIGATION LINES TO BE INSTALLED ACCORDING TO STOF CONSTRUCTION DETAIL MANUAL STANDARD DETAILS W-01, W-02, AND W-03.
3. SEPARATION OF WATER AND SEWER MAINS
   a. SEPARATION BETWEEN WATER MAINS AND ANY TYPE OF SEWER AND RECLAIMED WATER MUST COMPLY WITH THE REQUIREMENTS OF RULE 62-555.314 (FAC)
   b. PARALLEL WATER AND SEWER MAINS SHALL HAVE A MINIMUM 10' HORIZONTAL SEPARATION. WHERE THIS IS NOT POSSIBLE, THE SEWER MAIN SHALL BE IN A SEPARATE TRENCH AND BE AT LEAST 18" BELOW THE WATER MAIN.
   c. THE SEWER MAIN SHALL CROSS BELOW ALL WATER MAINS WITH A MINIMUM OF 18" VERTICAL CLEARANCE. WHERE THE CLEARANCE IS LESS THAN 18", THE SEWER MAIN SHALL BE SDR-26 AND WATER MAIN SHALL BE DIP FOR 20', CENTERED ON THE POINT OF CROSSING. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING SHALL BE MECHANICALLY RESTRAINED.
   d. A WATER MAIN MUST CROSS ABOVE ANY TYPE OF SEWER, MINIMUM VERTICAL CLEARANCE SHALL BE 12".

B. MATERIALS
1. PIPE
   a. THE WATER MAIN SHALL BE POLYVINYL CHLORIDE PIPE (PVC) AND SHALL HAVE PUSH-ON RUBBER GASKET JOINTS.
   b. POLYVINYL CHLORIDE PIPE (PVC): SHALL CONFORM TO AWWA C900-07 AND FM 1612. MINIMUM THICKNESS CLASS SHALL BE CLASS DR 18 (PRESSURE CLASS 235 PSI). PUSH-ON JOINTS SHALL CONFORM TO ASTM D3139. GASKETS SHALL BE NEOPRENE CONFORMING TO ASTM F477.
   c. UNDERGROUND DIP AND FITTINGS SHALL HAVE AN EXTERIOR BITUMINOUS COATING OF COAL TAR VARNISH OR ASPHALT BASE PAINT, 1.0 MIL FILM THICKNESS IN ACCORDANCE WITH ANSI/AWWA C151/A21.51.
   d. EXPOSED DIP AND FITTINGS SHALL RECEIVE A FACTORY APPLIED EXTERIOR COATING OF UNIVERSAL RUST-INHIBITIVE PRIMER, 2.0 MILS DRY FILM THICKNESS. THE COLOR SHALL BE BLUE FOR POTABLE WATER, GREEN FOR RAW WASTEWATER, AND PURPLE FOR RECLAIMED/REUSE WATER, UNLESS OTHERWISE APPROVED BY THE SEMINOLE TRIBE OF FLORIDA (STOF).
   e. ALL DIP AND FITTINGS SHALL HAVE AN INTERIOR CEMENT LINING AND EXTERIOR COAL TAR COATING CONFORMING TO ANSI/AWWA C151/A21.51-02.
   f. PIPE RESTRAINS: ALL FITTINGS AND PIPE JOINTS REQUIRING TO BE RESTRAINED SHALL USE MEGALUG RESTRAINER AS FOLLOWS:

JOINT	RESTRAINT
PUSH ON DIP	TR-FLEX BY US PIPE OR FLEX RING BY AMERICAN OR EBAA IRON SERIES 1700 MEGALUG OR APPROVED SUBSTITUTE
FITTINGS WITH DIP	EBAA IRONS SERIES 1100 MEGALUG OR APPROVED SUBSTITUTE
PUSH ON PVC	EBAA IRON SERIES 1900 MEGALUG SPLIT SERRATED RESTRAINT HARNESS OR APPROVED SUBSTITUTE
FITTINGS WITH PVC	EBAA IRONS 2000PV MEGALUG OR APPROVED SUBSTITUTE

   g. PIPE JOINTS SHALL BE MECHANICAL, CONFORMING TO AWWA C-111-00.
   h. ALL GASKETS SHALL BE NEOPRENE. WHERE REQUIRED POLYETHYLENE WRAP SHALL BE INSTALLED.
   i. PVC AND D.I.P. SHALL NOT BE DEFLECTED MORE THAN 1/2 THE MANUFACTURER'S RECOMMENDATION.
   j. DETECTOR TAPE SHALL BE LAID 18 INCHES BELOW FINAL GRADE FOR ALL WATER LINES. A 14-GAUGE MULTI-STRAND WIRE SHALL BE ATTACHED TO ALL PVC WATER MAINS TO FACILITATE LOCATION. AN EXTRA FOUR (4) FEET OF WIRE SHALL BE PROVIDED AT ALL BLOW OFFS AND HYDRANTS, ETC. THE WIRE SHALL BE LAID CLEAR OF VALVES. THE WIRE SHALL BE TESTED FOR CONTINUITY AT THE PRESSURE TEST.
   k. ALL WATER MAIN INSTALLATIONS SHALL COMPLY WITH THE COLOR CODING REQUIREMENTS OF CHAPTER 62-555.320, FAC.
2. FITTINGS SHALL BE CAST IRON MECHANICAL JOINT TYPE HAVING A PRESSURE RATING OF 250 PSI, AND CONFORMING TO ANSI/AWWA C-110/A21.10-03.
3. ISOLATION VALVES SHALL BE MECHANICAL JOINT TYPE ONLY, WHICH MEET THE REQUIREMENTS OF ANSI/AWWA C509, AND THE MECHANICAL JOINT SHALL CONFORM TO ANSI/AWWA C111/A1.11. THE INTERIOR LINING SHALL BE EPOXY IN ACCORDANCE WITH AWWA C550 AND AN EXTERIOR COATING OF EPOXY SHALL BE APPLIED. BOTH SHALL HAVE A 40 MIL DRY FILM THICKNESS (DFT). VALVES SHALL ADHERE TO THE FOLLOWING:
   ISOLATION VALVES LESS THAN OR EQUAL TO 18 INCHES SHALL BE RESILIENT WEDGE GATE VALVES AND BE OF THE FOLLOWING MAKES:
   - PRATT
   - DEZURIK
   - CLOW
4. VALVE BOX SHALL BE U.S. FOUNDRY MODEL #7500 AND SHALL BE PAINTED BLUE WITH THE DESIGNATION "WATER".
5. ALL VALVES SHALL HAVE A BRASS ID MARKER EMBEDDED IN THE COLLAR. THE MARKER SHALL INDICATE THE SIZE AND TYPE OF VALVE, AS WELL, THE DIRECTION AND NUMBER OF TURNS NEEDED TO OPEN THE VALVE, AND THE TYPE OF SERVICE LINE (I.E. WM, FM, RM). EXAMPLE: 8" R.S.G.V. 15 T.O.L. W.M.
6. FIRE HYDRANTS
   a. FIRE HYDRANTS SHALL HAVE A MINIMUM 5-1/4" VALVE OPENING AND SHALL OPEN AGAINST THE PRESSURE AND CLOSE WITH THE FLOW. HYDRANTS SHALL BE CLOW MEDALLION F2545, MUELLER CENTURION A-423, OR APPROVED EQUAL.
   b. COLOR CODING OF HYDRANTS SHALL BE INDICATED BY PAINTED YELLOW, RUST-OLEUM #944 SAFETY YELLOW, OR APPROVED EQUAL AND COLOR CODED AS FOLLOWS:
      1000 GPM OR GREATER - GREEN
      500 GPM - 1000 GPM - ORANGE
   c. THE BONNETS OF THE HYDRANTS WILL BE COLOR CODED BY THE CONTRACTOR IN ACCORDANCE TO THE ABOVE SPECIFICATIONS. THE PAINT USED BY THE CONTRACTOR MUST BE APPROVED BY THE ENGINEERING DEPARTMENT. THE FIRE AND ENGINEERING DEPARTMENTS MUST BE NOTIFIED 24 HOURS PRIOR TO TESTING. A REPRESENTATIVE FROM THE FIRE DEPARTMENT WILL BE REQUIRED TO WITNESS ALL FLOW TESTS. RESULTS OF THE FLOW TESTS MUST BE DOCUMENTED BY THE CONTRACTOR AND FORWARDED TO THE FIRE AND ENGINEERING DEPARTMENT.
   d. A BLUE REFLECTIVE PAVEMENT MARKER SHALL BE PROVIDED IN THE CENTER OF THE NEAREST LANE OF ROAD PAVEMENT ADJACENT TO ALL FIRE HYDRANT LOCATIONS.
   e. FIRE HYDRANTS THAT WILL BE REMOVED WILL BE RELOCATED AND INSTALLED AS PART OF THIS PROJECT.
7. DETECTOR TAPE SHALL BE 3" WIDE BLUE TAPE WITH A METALLIC FOIL CORE LAMINATED BETWEEN 2 LAYERS OF PLASTIC FILM. THE WORDS "CAUTION WATER LINE BURIED BELOW" SHALL BE PRINTED AT 30" INTERVALS ALONG THE TAPE. DETCO TAPE SHALL BE PLACED 18" BELOW FINISHED GRADE.
8. SERVICE CONNECTIONS
   a. SERVICE SADDLES SHALL BE DUCTILE IRON WITH STAINLESS STEEL STRAPS. SADDLES SHALL CONFORM TO ANSI/AWWA C111/A21.11-00 AND ATSM A 588. SERVICE SADDLES SHALL BE FORD MODEL FC202, OR APPROVED EQUAL. SERVICE SADDLES TO BE EPOXY COATED.
   b. SERVICE PIPE SHALL BE POLYETHYLENE. MINIMUM SERVICE LINE COVER SHALL BE 24 INCHES AND SLEEVED UNDER PAVED AREAS WITH BOTH ENDS SEALED WITH ELASTOMERIC CAULK AND LAID IN SAND BEDDING. SERVICE PIPE MATERIAL SHALL BE PHILLIPS 66 DRISCOPIPE 5100. SERVICE TRENCH SHALL BE BACK FILLED WITH CLEAN SAND ONLY.
   c. CORPORATION STOPS SHALL BE MANUFACTURED OF BRASS ALLOY IN ACCORDANCE WITH ASTM B 62 WITH THREADED ENDS. CORPORATION STROPS SHALL BE FORD MODEL 1100, OR APPROVED EQUAL.
   d. CORPORATION STOPS ON MAINS FOR ALL 2-INCH OR LESS SERVICE CONNECTIONS SHALL BE FORD BALLCORP, CATALOG #FB-1100 OR MUELLER P-25028.
   e. METER STOPS SHALL BE THE LOCKING TYPE AND SHALL BE OF BRONZE CONSTRUCTION IN ACCORDANCE WITH ATSM B 62. METER STOPS SHALL BE CLOSED BOTTOM DESIGN AND RESILIENT "O" RING SEALED AGAINST EXTERNAL LEAKING OF THE TOP. STOPS SHALL BE EQUIPPED WITH A METER COUPLING NUT ON THE OUTLET SIDES.
9. METER VALVES SHALL BE IN ACCORDANCE WITH ASTM B-62 LATEST VERSION.
   a. FORD ANGLE METER VALVE, CATALOG #V63-444W-1"
      FORD ANGLE METER VALVE, CATALOG #V63-777W-2"
      FORD ANGLE METER VALVE, BRANCH #UV63-42W-1"
   b. FORD RESIDENTIAL DUAL CHECK VALVES, CATALOG #HHCA31-23 5/8 x 3/4.
   c. FORD STAINLESS STEEL INSERT STIFFENERS FOR PLASTIC PIPE, 3F1100-4 FOR 1" TUBE OR #FB110-7 FOR 2" TUBE
10. RADIO READ METERS ARE REQUIRED, IN ALL NEW SUBDIVISIONS AS MANUFACTURED BY SENSUS TECHNOLOGIES (SUPPLIED BY CITY).

C. INSTALLATION
1. CONTRACTOR SHALL COORDINATE WITH THE APPROPIATE UTILITY COOMPANY FOR WATER CONNECTIONS.
2. PVC PIPE
   a. PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE UNI-BELL PLASTIC PIPE ASSOCIATIONS "GUIDE FOR INSTALLATION OF PVC PRESSURE PIPE FOR MUNICIPAL WATER DISTRIBUTION SYSTEMS".
   b. PVC PIPE SHALL BE INSTALLED WITH A MINIMUM OF 36" COVER.
   c. BEDDING AND INITIAL BACKFILL FOR ALL PVC WATER MAINS SHALL BE SAND WITH NO ROCK LARGER THAN 1" IN DIAMETER.
   d. DETECTOR TAPE SHALL BE INSTALLED THE FULL LENGTH OF ALL PVC WATER MAINS APPROXIMATELY 18" BELOW FINISHED GRADE, BLUE SIDE UP.
   e. A 14 GUAGE MULTI-STRAND WIRE SHALL BE ATTACHED TO ALL PVC WATER MAINS TO FACILATE LOCATION.
   f. AN EXTRA FOUR (4) FEET OF WIRE SHALL BE PROVIDED AT ALL BLOW-OFFS AND HYDRANTS, ETC. THE WIRE SHALL BE LAID CLEAR OF VALVES. THE WIRE SHALL BE TESTED FOR CONTINUITY AT THE PRESSURE TEST.
3. DUCTILE IRON PIPE
   a. DIP SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C 600-99.
   b. DIP SHALL BE INSTALLED WITH A MINIMUM OF 30" COVER.
4. MINIMUM SERVICE LINE COVER SHALL BE 24 INCHES AND SLEEVED UNDER PAVED AREAS WITH SCHEDULE 40 PVC CONDUIT. SLEEVE IS TO BE PLUGGED WITH ELASTOMERIC CAULK AND LOCATED IN SAND BEDDING.
5. VALVES
   a. ALL VALVES SHALL BE INSTALLED WITH ADJUSTABLE CAST IRON VALVE BOXES WITH THE WORD "WATER" CAST IN THE COVER.
   b. MAIN VALVES SHALL BE LOCATED ON AN EXTENSION OF THE RIGHT-OF-WAY LINE UNLESS DIMENSIONED OTHERWISE.

D. TESTING
1. THE PHYSICAL CONNECTION OF THE NEW SYSTEM TO THE EXISTING SYSTEM SHALL BE DONE IN ACCORDANCE WITH SECTION C.1. ABOVE-WHICH WILL DICTATE THE ORDER OF THE PRESSURE TESTING AND DISINFECTION.
2. HYDROSTATIC TEST PRESSURE FOR LEAKAGE SHALL BE AT 150 PSI FOR 2 HOURS. TEST PRESSURE SHALL NOT VARY MORE THAN 5 PSI IN ACCORDANCE WITH LATEST EDITION OF ANSI/AWWA C600-05. MAXIMUM ALLOWABLE LEAKAGE SHALL BE CALCULATED AS FOLLOWS:

$$L = \frac{SD(P)^{0.5}}{148{,}000} \qquad \text{AWWA C600-05}$$

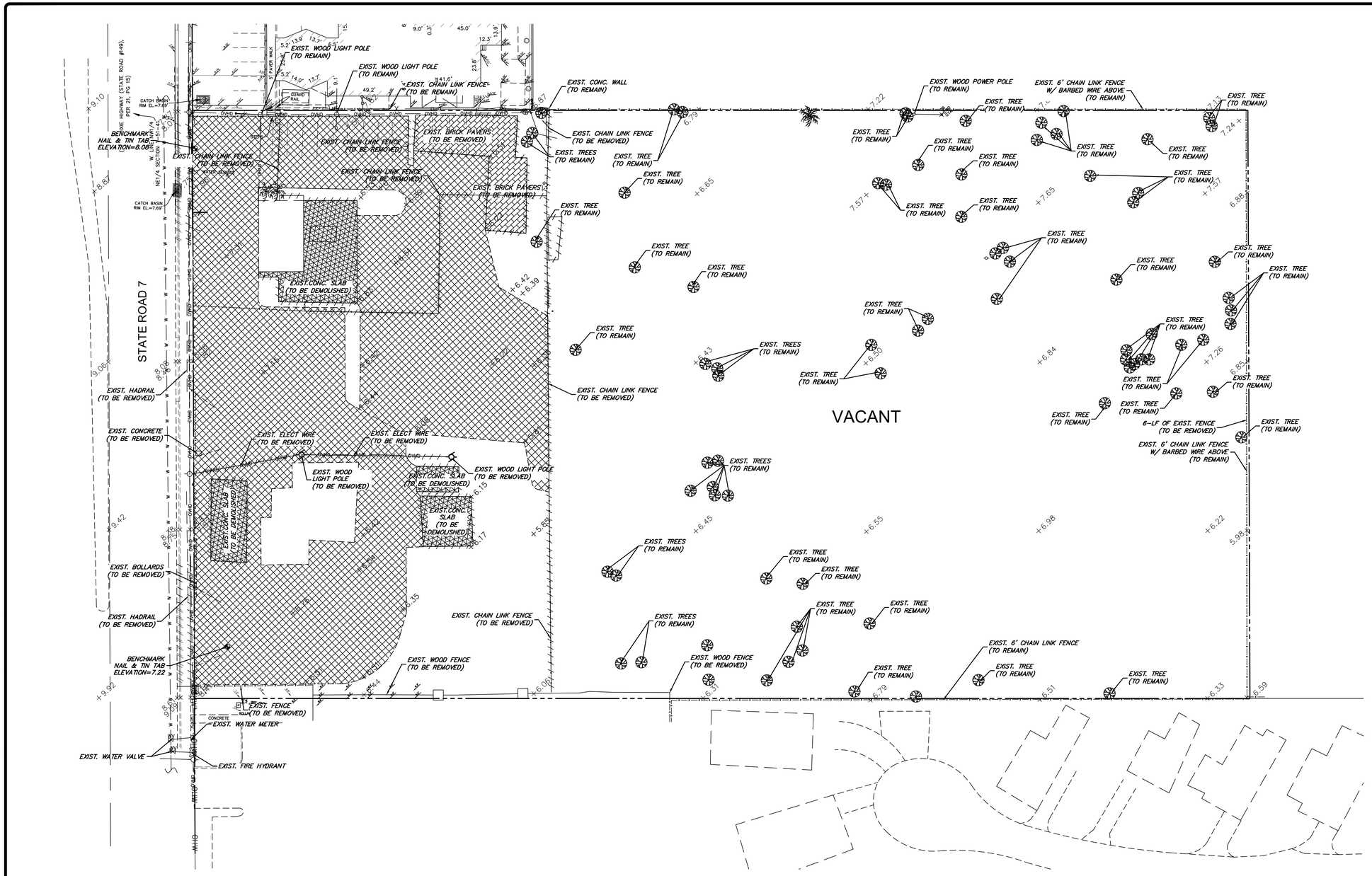
L = ALLOWABLE LEAKAGE GALLON PER MINUTE
S = LENGTH IN LINEAR FEET
D = NOMINAL PIPE DIAMETER IN INCHES
P = PRESSURE IN PSI

3. THE PRESSURE TEST SHALL BE WITNESSED BY A REPRESENTATIVE OF THE SEMINOLE TRIBE OF FLORIDA (STOF) AND THE ENGINEER.
4. BEFORE ACCEPTANCE FOR OPERATION, THE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE TO THE LATEST EDITION OF ANSI/AWWA C651-05 WITH BACTERIOLOGICAL SAMPLES APPROVED BY THE COUNTY HEALTH DEPARTMENT. COLLECTION OF SAMPLES IS THE CONTRACTOR'S RESPONSIBILITY AND WILL BE WITNESSED BY THE ENGINEER'S REPRESENTATIVE.
5. BACTERIOLOGICAL TESTING WITHIN THE RIGHT OF WAY SHALL BE IN ACCORDANCE WITH ANSI/AWWA C651-05. MAXIMUM DISTANCE BETWEEN SAMPLING POINTS SHALL BE AS FOLLOWS:
   - TRANSMISSION MAINS: EVERY 1200 FEET
   - BRANCH MAINS: EVERY 1000 FEET
   - ISOLATED MAINS: LESS THAN 1000 FEET: 2 SAMPLE POINTS; GREATER THAN 1000 FEET: 3 SAMPLE POINTS
   - MAXIMUM DISTANCE BETWEEN SAMPLING POINTS SHALL NOT EXCEED 1200 FEET.

   THE STOF SHALL BE REIMBURSED FOR THE COST OF COLLECTING AND PROCESSING THE BACTERIOLOGICAL SAMPLES.
6. STOF AND ENGINEER TO BE ADVISED IN WRITING AT LEAST 48 HOURS PRIOR TO THE FOLLOWING:
   - WET CONNECTIONS
   - PRESSURE TESTS
   - FILLING/FLUSHING
   - CHLORINATION
   - BACTERIOLOGICAL SAMPLES

STOF ERMD NOTES

A. IF HISTORIC OR ARCHEOLOGICAL ARTIFACTS OR POSSIBLE CULTURALLY IMPORTANT ITEMS OR AREAS ARE DISCOVERED AT ANY TIME ON THE PROJECT SITE, THE CONTRACTOR SHALL CEASE WORK IN THE AREA AND IMMEDIATELY NOTIFY ERMD AT 954-965-4380 OR 863-763-4128 AND THE TRIBAL HISTORIC PRESERVATION OFFICE AT 863-



1 .5 0 1

1 INCH = 1 FEET

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- CENTERLINE
- EASEMENT LINE
- OVHD — EXIST. OVERHEAD UTILITY LINES
- EXIST. STORMWATER PIPE
- WM — EXIST. WATER MAIN
- X — EXIST. FENCE
- EXIST. WOOD FENCE
- EXIST. TO BE REMOVED
- EXIST. ASPHALT TO BE DEMOLISHED
- EXIST. CONCRETE TO BE DEMOLISHED
- EXIST. BUILDING TO BE DEMOLISHED
- EXIST. CONCRETE POWER POLE
- EXIST. WOOD POWER POLE
- EXIST. GUY ANCHOR
- EXIST. WATER VALVE
- EXIST. LIGHT POLE
- EXIST. SPOT ELEVATION
- EXIST. SIGN
- EXIST. WATER METER
- EXIST. FIRE HYDRANT
- EXIST. TREE
- EXIST. PALM TREE

NOTES:

1. THESE EXISTING CONDITIONS (EC) DRAWINGS WERE BASED ON THE SURVEY PREPARED BY GIBBS LAND SURVEYORS, PHONE (954) 921-7666, JOB NUMBER RN7374, DATED 08/18/2014. ALL ELEVATIONS REFER TO NAVD 1983 DATUM.
2. CONTRACTOR TO FIELD LOCATE AND CONFIRM ALL UTILITIES, WHETHER SHOWN OR NOT, PRIOR TO ANY CONSTRUCTION & NOTIFY ENGINEER OF ANY DISCREPANCIES.

DATUM INFORMATION

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Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

PLANNING BOARD REVIEW

NO.	DATE	REVISION	BY
5			
4			
3			
2			
1			

DESIGNER: ACS
DRAWN BY: AA
CHECKER: JLA
SCALE: AS SHOWN

JOSE L. ACOSTA, P.E.
CIVIL ENGINEER
FL Reg. No. 76267

2103 Coral Way
Suite 401
Miami, FL 33145
Tel: (786)497-1500
Fax: (786) 497-2300
CHEN·MOORE &ASSOCIATES

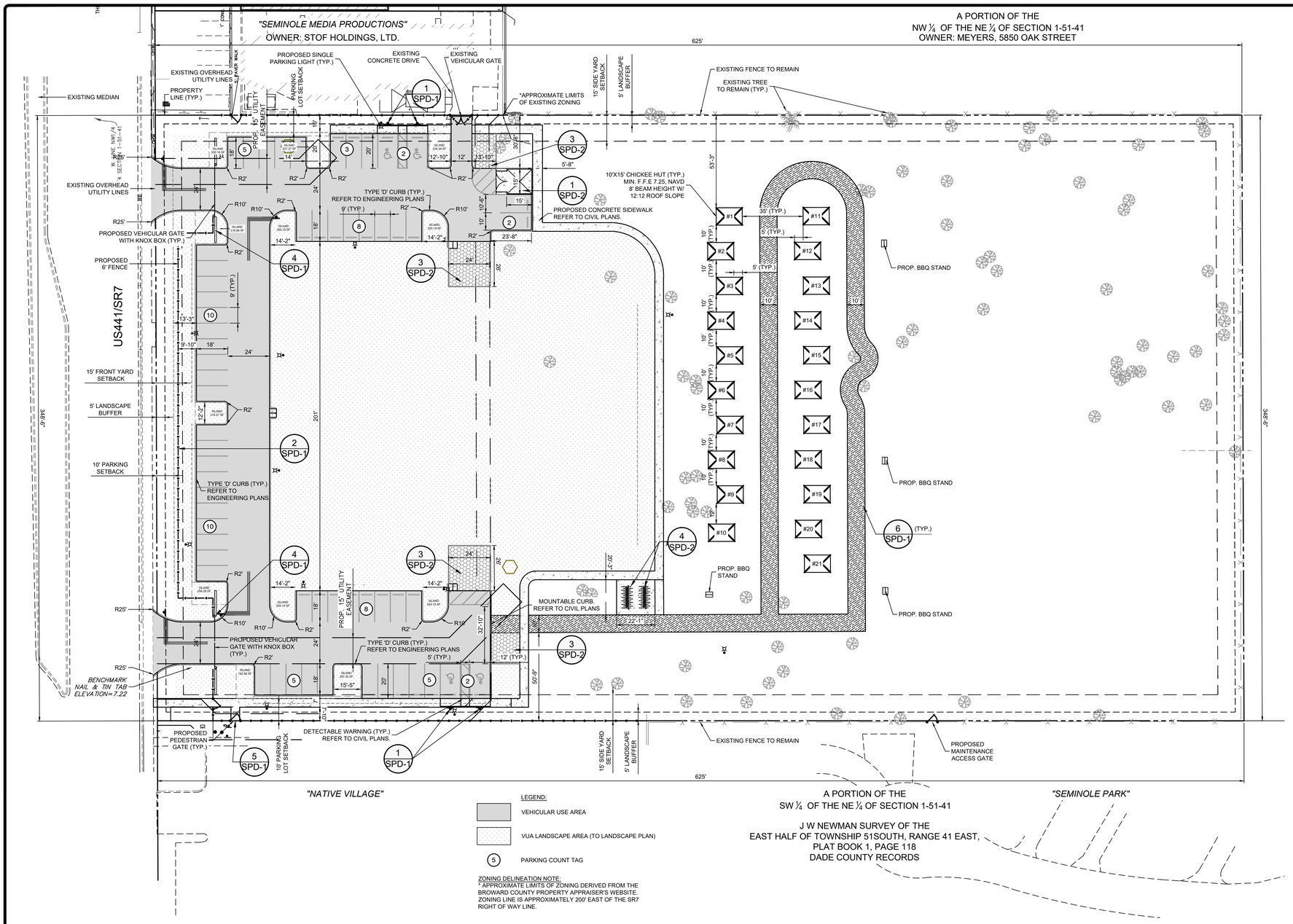
The Seminole Tribe of Florida

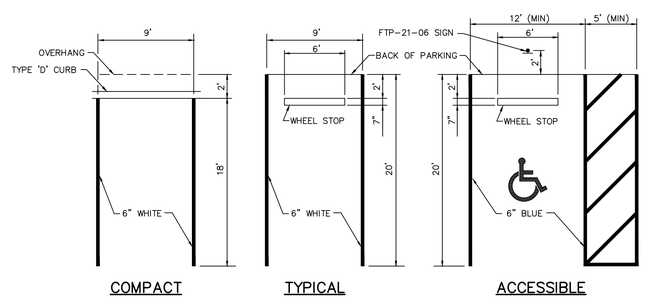
SEMINOLE VILLAGE

EXISTING CONDITION AND DEMOLITION PLAN

Date: 03/14/2019
Sheet: 2 of 22
Drawing: DEM-1
PROJECT NO. 300.001

v:\Projects\2018\18-300.001 - seminole village-site pln-eng pln update\Design\CAD\Plans\300.001 PH1 Demolition Plan.dwg last edited on March 26, 2018 5:10 PM by AAristizabal





PARKING STALLS
N.T.S.

NOTE
PROVIDE PAVEMENT SYMBOL IN ACCESSIBLE PARKING SPACES. THE SYMBOL SHALL BE WHITE IN COLOR.
RE: FDOT INDEX NO. 17346 & 17355

Legal Description

THE SOUTH 348.50 FEET OF THE WEST 660 FEET OF THE NORTHWEST ONE-QUARTER (NW ¼) OF THE NORTHEAST ONE-QUARTER (NE ¼) OF SECTION 1, TOWNSHIP 51 SOUTH, RANGE 41 EAST, EXCEPTING THEREFROM THE WEST 35 FEET THEREOF FOR HIGHWAY PURPOSES. SAID LANDS SITUATE LYING AND BEING IN BROWARD COUNTY, FLORIDA. CONTAINING 5.00 ACRES (217,813 SQUARE FEET), MORE OR LESS.

Land Use Designation

State Road 7 Transit Oriented Corridor (TOC)

Zoning

North Mixed-Use District (N-MU)

Total Project Area	**Square Feet**	**Acreage**			
	217,813	5.000			

Proposed Conditions	**Square Feet**	**Acreage**	*Min. Floor Elev*	*Max. Floor Elev*	Sub Area
Asphalt Pavement (VUA)	27,588	0.633	6	8.75	2
Chickee Hut	6,100	0.140	7.25	7.25	3
Concrete Sidewalk	5,653	0.130			
Total Impervious	39,341	0.903			
Total Pervious	178,472	4.097	6	7.35	4
Total Proposed Site Area	***217,813***	***5.000***			

Building Setbacks in N-MU District	**Adjacent Use**	**Required**	**Provided**
North Property Line (Ex. Commercial & Residential)	Non- Residential	0'	30'-6"
	Residential	15'	53'-3"
South Property Line (Native Village & Residential)	Non- Residential	0'	25'
	Residential	15'	25'
Rear Property Line	Residential	15'	195'
Frontage Property Line			

Parking Lot Setbacks in N-MU District	**Required**	**Provided**
Front	10'	20'-5"
North Side	5'	10'
South Side	5'	12'-10"
Rear	5'	400'

Required VUA Landscape (25% of VUA)			
25% of VUA	27,588	6,897	52,630

Accessible Parking Requirements			
50 - 100	56	4	4

Design Values	
FEMA Flood Zone @ 8 NAVD (August 18, 2014)	
Ground Storage	3.97"
5 year-1day	7.5"
10 year-1day	8.5"
25 year- 3 day	13.5"
100 year - 3 day	17"

GREEN BUILDING PRACTICES IMPLEMENTED WITH THIS PLAN SET:

THE PROPOSED DEVELOPMENT SHALL COMPLY WITH CITY MANDATED GREEN BUILDING PRACTICES PER ORDINANCES, PER SECTION 151.152 & 151.153 OF THE CITY ORDINANCE. SEE BELOW FOR AREAS OF GREEN BUILDING PRACTICE:

SECTION 151.152 COMMERCIAL GREEN BUILDING PRACTICES

1. PROVIDE BICYCLE RACK. SEE SITE PLAN FOR BIKE RACK LOCATION.
2. PROVIDE 80% OF PLANTS, TREES AND GRASS PER SOUTH FLORIDA WATER MANAGEMENT DISTRICT RECOMMENDATIONS. SEE LANDSCAPE DRAWINGS.
3. PROPOSED 50% REDUCTION IN WATER CONSUMPTION THROUGH WATER EFFICIENT IRRIGATION AS OUTLINED BY THE USBC (LEED) CRITERIA. REFER TO IRRIGATION PLANS.

NOTES:

1. THESE EXISTING CONDITIONS (EC) DRAWINGS WERE BASED ON THE SURVEY PREPARED BY GIBBS LAND SURVEYORS, PHONE (954) 923-7666, JOB NUMBER RN7374, UPDATED 06/22/20148. ALL ELEVATIONS REFER TO NAVD 1983 DATUM.
2. CONTRACTOR TO FIELD LOCATE AND CONFIRM ALL UTILITIES, WHETHER SHOWN OR NOT, PRIOR TO ANY CONSTRUCTION & NOTIFY ENGINEER OF ANY DISCREPANCIES.
3. CHICKEE HUTS TO BE CONSTRUCTED BY SEMINOLE TRIBE OF FLORIDA. BUILDINGS /STRUCTURES NOT SUBJECT TO LOCAL BUILDING CODES.
4. DECORATIVE FENCES AND GATES SHALL BE ALUMINUM. REFER TO SITE PLAN DETAILS SHEET SPD-2.
5. ALL SIGNAGE SHALL NE IN COMPLIANCE WITH THE LOCAL ZONING AND LANDSCAPE DEVELOPMENT REGULATIONS.
6. ALL UTILITIES SHALL BE COORDINATED WITH APPROPRIATE DEPARTMENTS AND/OR UTILITY OWNERS.
7. THE MAXIMUM FOOT CANDLE LEVEL AT ALL PROPERTY LINES SHALL BE .5
8. NEW VEHICULAR AND PEDESTRIAN GATES SHALL NOT SWING INTO ADJACENT PROPERTIES.

DATUM INFORMATION
ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON NAVD 1983 DATUM.

Sunshine811
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PLANNING BOARD REVIEW

NO.	DATE	REVISION	BY
5			
4			
3			
2			
1			

DESIGNER: ACS
DRAWN BY: EDH, SZB
CHECKER: CAB
SCALE: AS SHOWN

CRISTOBAL A. BETANCOURT
LANDSCAPE ARCHITECT
FL Reg. No. 6666647

2103 Coral Way
Suite 401
Miami, FL 33145
Tel: (786)497-1500
Fax: (786) 497-2300
CHEN•MOORE &ASSOCIATES

The Seminole Tribe of Florida

SEMINOLE VILLAGE
SITE PLAN

Date: 03/14/2019
Sheet: 3 of 22
Drawing: SP-1
PROJECT NO. 300.001

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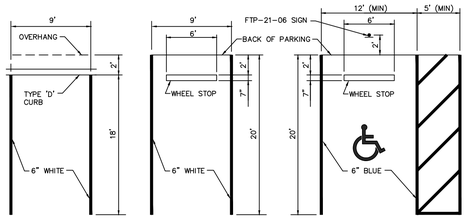
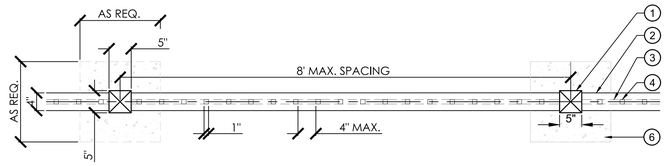


1 PARKING STALLS DETAIL

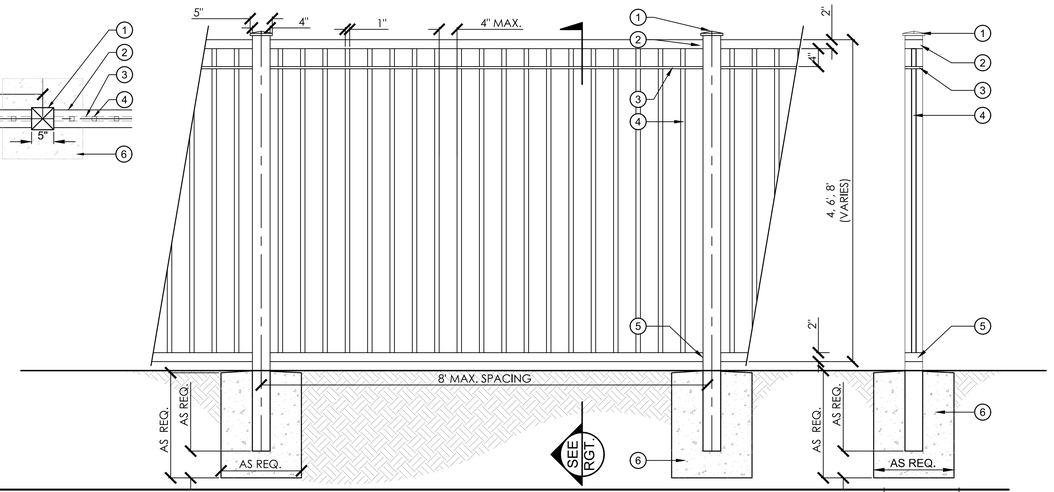
1" = 20'

321216-77



NOTES:
1. ALL ALUMINUM FENCING SHALL HAVE A BLACK, POWDER COATED FINISH.
2. CONTRACTOR TO PROVIDE SIGNED AND SEALED SHOP DRAWINGS BY A FLORIDA REGISTERED STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

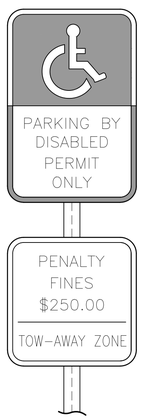
1. POST CAP
2. TOP RAIL
3. CROSS BAR/SUPPORT RAIL
4. BALUSTRADE
5. BOTTOM RAIL
6. CONCRETE FOOTER



2 DECORATIVE ALUMINUM FENCING

3/4" = 1'-0"

323119-05



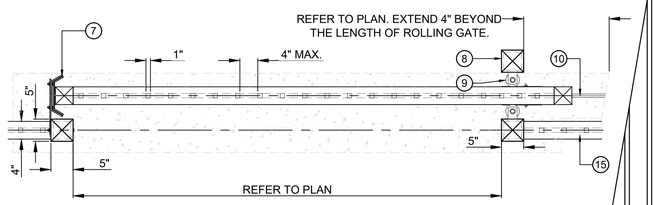
1. TOP PORTION OF FTP 25 SHALL HAVE A REFLECTIVE BLUE BACKGROUND WITH WHITE REFLECTIVE SYMBOL AND BORDER.
2. BOTTOM PORTION SHALL HAVE A REFLECTIVE WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.
3. FTP 25 MAY BE FABRICATED ON ONE PANEL OR TWO.

3 TYPICAL HANDICAPPED SIGN FTP-25

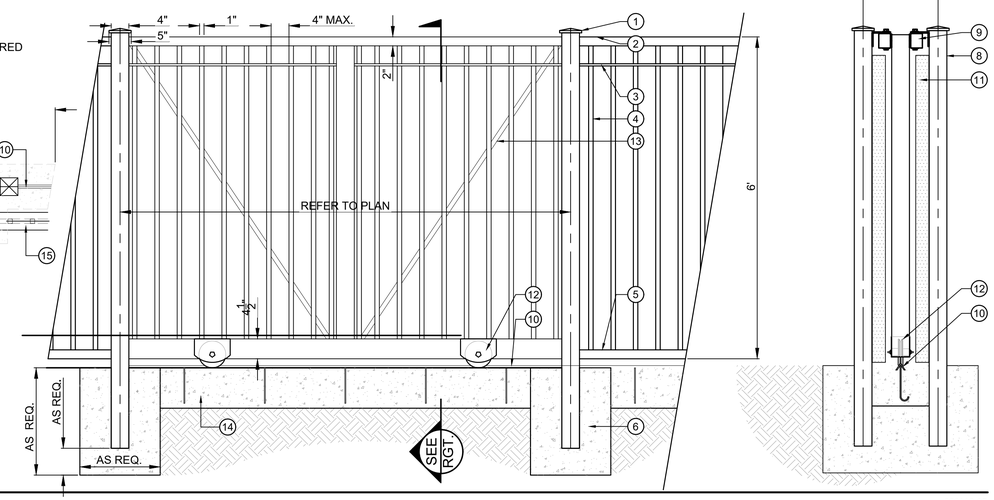
1 1/2" = 1'-0"

324123-02

NOTES:
1. ALL ALUMINUM FENCING SHALL HAVE A BLACK, POWDER COATED FINISH.
2. CONTRACTOR TO PROVIDE SIGNED AND SEALED SHOP DRAWINGS BY A FLORIDA REGISTERED STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.



1. POST CAP
2. TOP RAIL
3. CROSS BAR/SUPPORT RAIL
4. BALUSTRADE
5. BOTTOM RAIL
6. CONCRETE FOOTER
7. LATCH/STOPPING BLOCK
8. GUIDE POST
9. ROLLING GUIDE
10. V-TRACK
11. SAFTEY SHIELD
12. WHEEEL & TRACK ASSEMBLY
13. CROSS BRACE/TENSION ROD AS NECESSARY
14. V-TRACK FOUNDATION
15. FENCE LINE



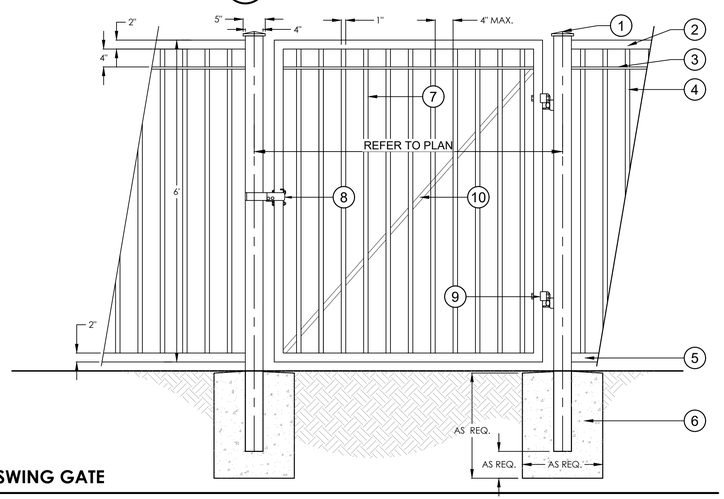
4 6` DECORATIVE ALUMINUM ROLLING GATE

3/4" = 1'-0"

323119-07

1. POST CAP
2. TOP RAIL
3. CROSS BAR/SUPPORT RAIL
4. BALUSTRADE
5. BOTTOM RAIL
6. CONCRETE FOOTER
7. SELF CLOSING GATE
8. FULCRUM LATCH WITH STRIKE STRAP
9. SELF CLOSING GATE HINGE. INSATLL PER MANUFACTURER'S RECOMMENDATIONS
10. CROSS BRACE/TENSION ROD AS NECESSARY

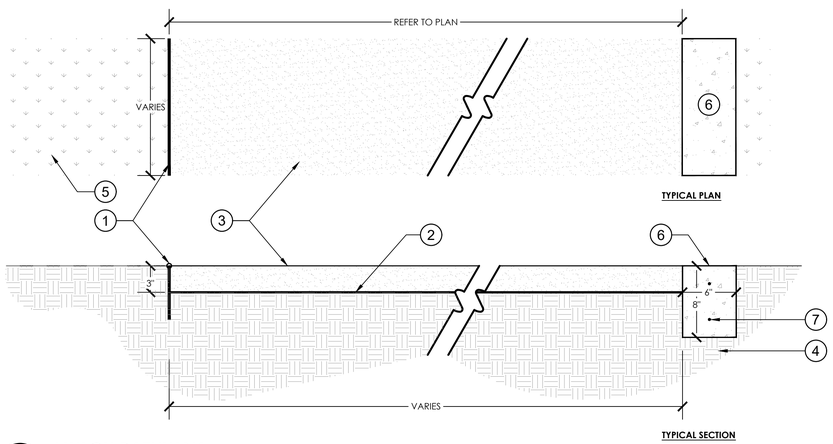
NOTES:
1. ALL ALUMINUM FENCING SHALL HAVE A BLACK, POWDER COATED FINISH.
2. CONTRACTOR TO PROVIDE SIGNED AND SEALED SHOP DRAWINGS BY A FLORIDA REGISTERED STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.



5 6` DECORATIVE ALUMINUM SWING GATE

3/4" = 1'-0"

323119-06



1. PVC OR PLATISTIC CONTAINMENT EDGE (TYP.). 8" MIN.DEPTH.
2. GEO-TEXTILE FABRIC OR LANDSCAPE PAPER
3. MULCH PATH. REFER TO LANDSCAPE SPECIFICATIONS FOR SPECIFIED MULCH
4. UNDISTURBED SOIL OR EXISTING SUB-GRADE
5. LANDSCAPE OR SHRUB MATERIAL. REFER TO LANDSCAPE PLAN
6. ALTERNATE EDGING MATERIAL 6"X8"CONTINUOUS CONCRETE HEADER BAND
7. #3 REBAR, CONTINUOUS, 2" MIN. COVER

6 MULCH PATHWAY

1 1/2" = 1'-0"

3215-03

PLANNING BOARD REVIEW

NO.	DATE	REVISION	BY
5			
4			
3			
2			
1			

DESIGNER: ACS
DRAWN BY: EDH, SZB
CHECKER: CAB
SCALE: AS SHOWN

CRISTOBAL BETANCOURT, RLA
LANDSCAPE ARCHITECT
FL REG. No. 6666666

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CHEN•MOORE &ASSOCIATES

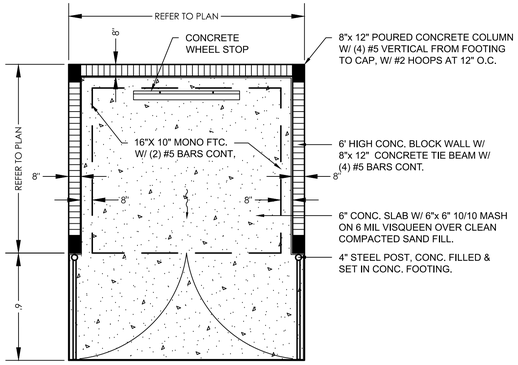
The Seminole Tribe of Florida

SEMINOLE VILLAGE

SITE DETAILS

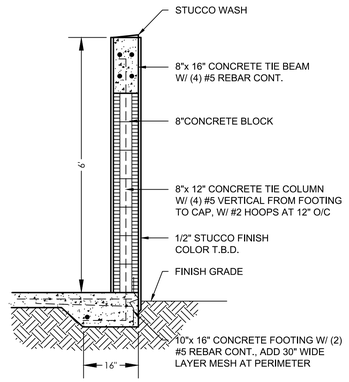
Date: 03/14/2019
Sheet: 4 of 22
Drawing: SPD-1
PROJECT NO. 300.001

v:\Projects\2018\18-300.001 - seminole village-site pln-eng pln update\Design\CAD\Plans\300.001 PH1 Details.dwg last edited on September 17, 2018 12:03 PM by aaristizabal



PLAN

asdfsaf

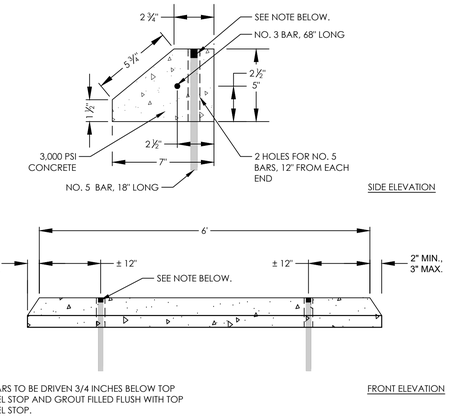


TYPICAL CROSS SECTION

1 CONCRETE DUMPSTER ENCLOSURE

1/4" = 1'-0"

3231-04

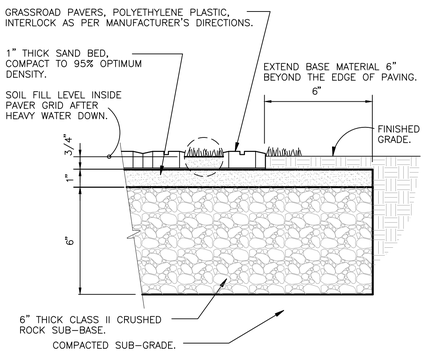


NOTE: BARS TO BE DRIVEN 3/4 INCHES BELOW TOP OF WHEEL STOP AND GROUT FILLED FLUSH WITH TOP OF WHEEL STOP.

2 WHEEL STOP DETAIL

N.T.S

3216-01

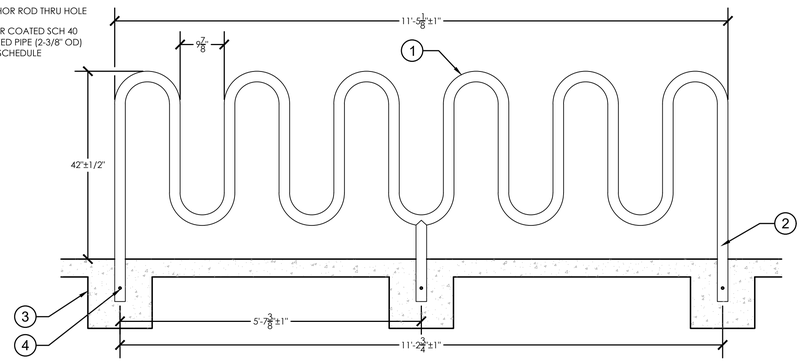


3 PLASTIC TURN REINFORCED PAVING

3" = 1'-0"

321443.13-01

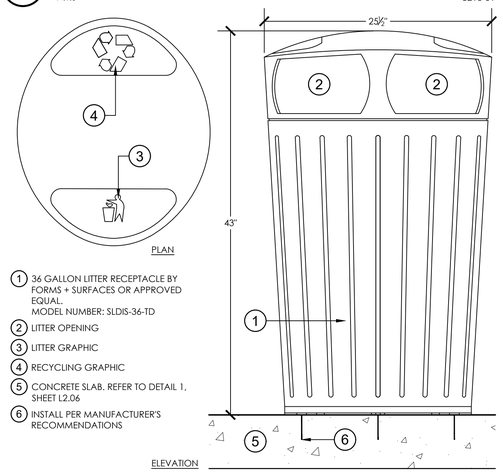
1. MADRAX HEAVY DUTY WINDER OR EQUAL POWDER COATED BICYCLE RACK REFER TO SCHEDULE
2. CONCRETE FOOTER REFER TO MANUFACTURER'S SPECIFICATIONS
3. 3/8" ANCHOR ROD THRU HOLE
4. 2" POWDER COATED SCH 40 GALVANIZED PIPE (2-3/8" OD) REFER TO SCHEDULE



4 BICYCLE STORAGE RACK - 13 CAPACITY

3/4" = 1'-0"

129313-02



1. 36 GALLON LITTER RECEPTACLE BY FORMS + SURFACES OR APPROVED EQUAL. MODEL NUMBER: SLDIS-36-TD
2. LITTER OPENING
3. LITTER GRAPHIC
4. RECYCLING GRAPHIC
5. CONCRETE SLAB. REFER TO DETAIL 1, SHEET L2.06
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

5 DISPATCH 36 GALLON LITTER RECEPTACLE

1 1/2" = 1'-0"

129323-04

PLANNING BOARD REVIEW

NO.	DATE	REVISION	BY
5			
4			
3			
2			
1			

DESIGNER: ACS
DRAWN BY: EDH, SZB
CHECKER: CAB
SCALE: AS SHOWN

CRISTOBAL BETANCOURT, RLA
LANDSCAPE ARCHITECT
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CHEN•MOORE &ASSOCIATES

The Seminole Tribe of Florida

SEMINOLE VILLAGE

SITE DETAILS

Date: 03/14/2019
Sheet: 5 of 22
Drawing: SPD-2
PROJECT NO. 300.001

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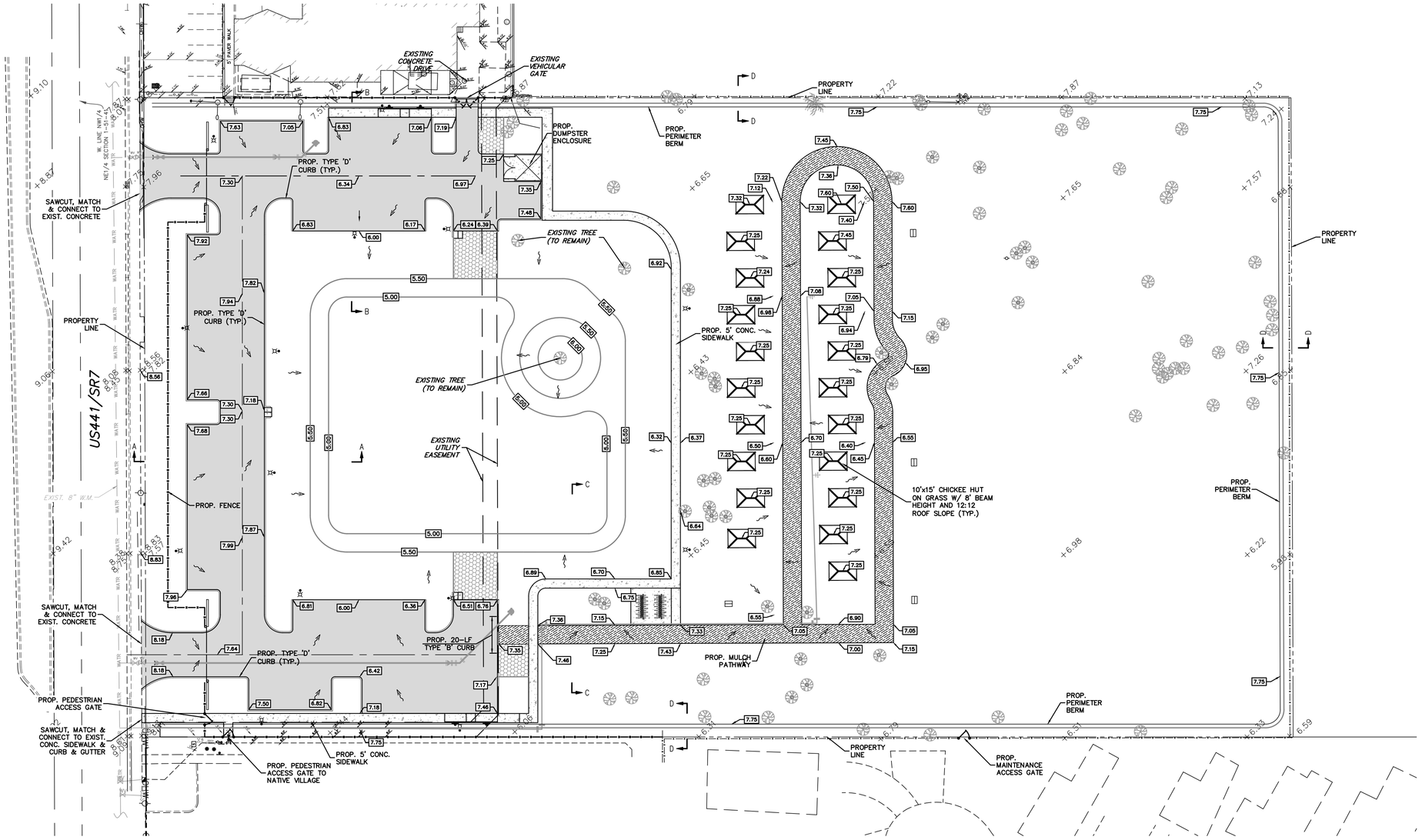
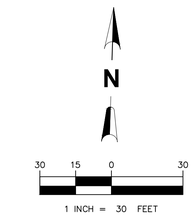




LEGEND

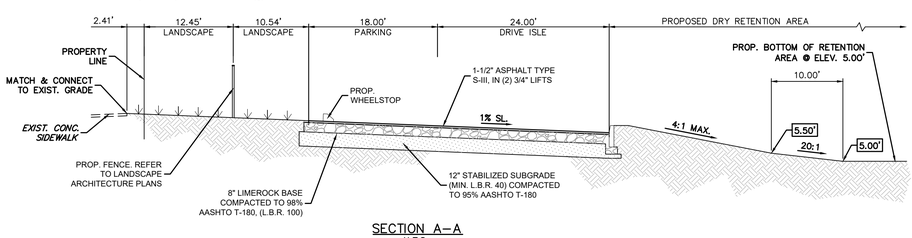
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- CENTERLINE
- EASEMENT LINE
- EXIST. OVERHEAD UTILITY LINES
- EXIST. STORMWATER PIPE
- EXIST. WATER MAIN*
- PROP. WATER MAIN, GATE VALVE, TEE, BEND & HYDRANT
- PROP. STORM PIPE
- PROP. EXFILTRATION TRENCH
- PROP. CONCRETE
- PROP. ASPHALT PAVEMENT
- PROP. MULCH PATH
- PROP. STABILIZED SUBGRADE
- EXIST. CONCRETE POWER POLE
- EXIST. WOOD POWER POLE
- EXIST. GUY ANCHOR
- EXIST. WATER VALVE
- EXIST. LIGHT POLE
- EXIST. SPOT ELEVATION
- EXIST. SIGN
- EXIST. WATER METER
- EXIST. FIRE HYDRANT
- EXIST. TREE
- EXIST. PALM TREE
- PROP. SPOT ELEVATION
- PROP. CATCH BASIN
- FLOW ARROW
- PROP. LIGHT POLE

PAVING AND DRAINAGE NOTES:

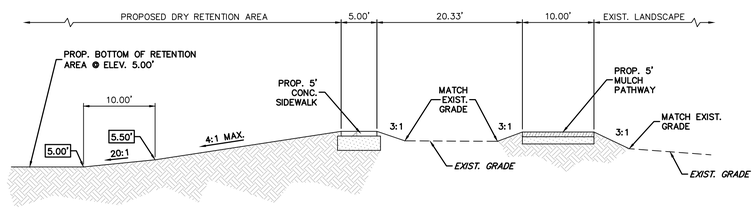
1. MINIMUM FINISHED FLOOR ELEVATION = 7.25' N.A.V.D. ACTUAL BUILDING ELEVATIONS WILL BE DESIGNED AND SUBMITTED FOR PERMITS PRIOR TO CONSTRUCTION.
2. CONTROL POINTS LOCATED IN CONCRETE OR ASPHALT SHALL BE RAISED TO FINAL GRADE.
3. THE HORIZONTAL AND VERTICAL LOCATIONS OF THE EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND ARE BASED ON FIELD OBSERVATION AND/OR AVAILABLE PLANS. THE EXACT LOCATION MAY VARY.
4. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.
5. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD.
6. ALL SIDEWALKS SHALL MEET ALL A.D.A. REQUIREMENTS (5% MAX. LONGITUDINAL SLOPE AND 2% MAX. TRANSVERSE SLOPE).
7. CONCRETE PIPE FOR STORM SEWERS SHALL CONFORM TO ASTM L76-79, TABLE III, WALL B, OR LATEST REVISION. ALL PIPE SHALL HAVE MODIFIED TONGUE AND GROOVE JOINTS, AND HAVE RUBBER GASKETS, UNLESS OTHERWISE SPECIFIED.
8. BEDDING AND INITIAL BACKFILL OVER DRAINAGE PIPE SHALL BE SAND WITH NO ROCK LARGER THAN 1" DIAMETER.
9. BACKFILL MATERIAL UNDER PAVED AREAS SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
10. BACKFILL MATERIAL UNDER AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
11. DRAINAGE STRUCTURES AND LINES TO BE CLEANED PRIOR TO ENGINEER'S ACCEPTANCE.
12. DRAINAGE STRUCTURES TO BE CLEANED PRIOR TO STOF ACCEPTANCE IF LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY.
13. NO CATCH BASINS OR JUNCTION BOXES SHALL BE LOCATED IN DRIVEWAYS.
14. DESIGN SEASONAL HIGH WATER TABLE = 0.50' N.A.V.D.

NOTES:

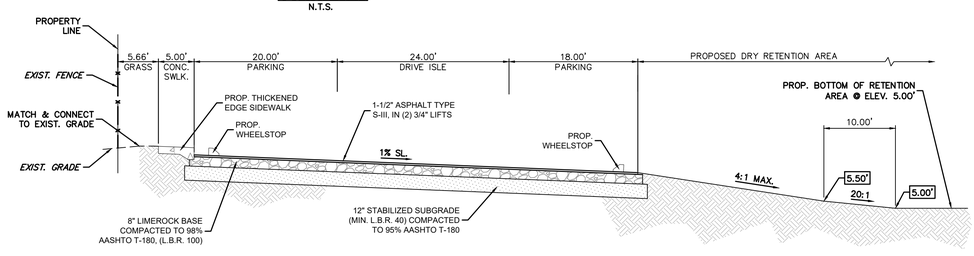
1. THESE EXISTING CONDITIONS (EC) DRAWINGS WERE BASED ON THE SURVEY PREPARED BY GIBBS LAND SURVEYORS, PHONE (954) 923-7666, JOB NUMBER RN7374, DATED 03/06/2014, ALL ELEVATIONS REFER TO NAVD 1983 DATUM.
2. CONTRACTOR TO FIELD LOCATE AND CONFIRM ALL UTILITIES, WHETHER SHOWN OR NOT, PRIOR TO ANY CONSTRUCTION & NOTIFY ENGINEER OF ANY DISCREPANCIES.



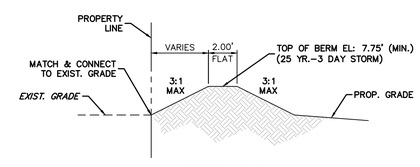
SECTION A-A
N.T.S.



SECTION C-C
N.T.S.



SECTION B-B
N.T.S.



SECTION D-D
N.T.S.

DATUM INFORMATION

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Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

PLANNING BOARD REVIEW

NO.	DATE	REVISION	BY
5			
4			
3			
2			
1			

DESIGNER: ACS
DRAWN BY: AA
CHECKER: JLA
SCALE: AS SHOWN

JOSE L. ACOSTA, P.E.
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CHEN·MOORE &ASSOCIATES

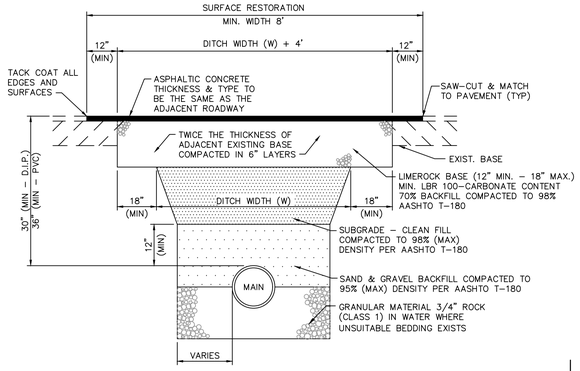
The Seminole Tribe of Florida

SEMINOLE VILLAGE

PAVING GRADING AND DRAINAGE

Date: 03/14/2019
Sheet: 6 of 22
Drawing: PGD-1
PROJECT NO. 300.001

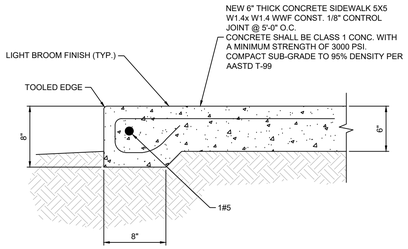
v:\Projects\2018\18-300.001 - seminole village-site pln-eng pln update\Design\CAD\Plans\300.001 PH1 Paving Grading and Drainage.dwg last edited on September 17, 2018 1:57 PM by aaristizabal



TRENCH DETAIL

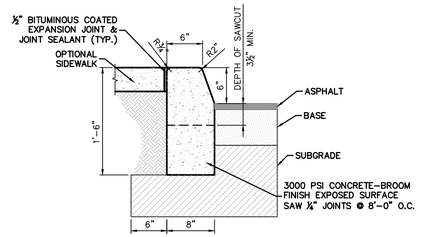
(PAVED AREAS)

N.T.S.



THICKENED EDGE SIDEWALK DETAIL

N.T.S.



TYPE "D" CURB DETAIL (STOF C–03)

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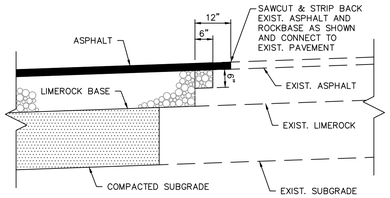
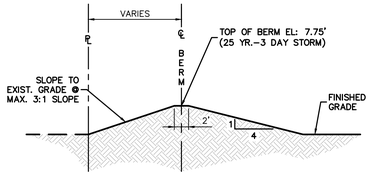


CONNECTION TO EXISTING PAVEMENT DETAIL

N.T.S.

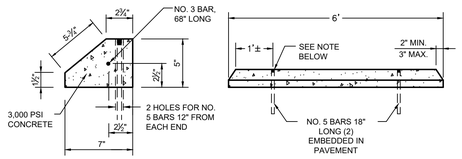


NOTES:

1. THE BERM SHALL BE CONSTRUCTED OF SUITABLE MATERIAL WITH A MIN. L.B.R. VALUE OF 30. NO MUCK OR OPEN GRADED SILICA (SUGAR) SAND WILL BE ACCEPTABLE IN CONSTRUCTION.
2. THE BERM SHALL BE COMPACTED TO 92% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T–180.
3. THE BERM SHALL BE FULLY SODDED.

TYPICAL BERM CROSS SECTION

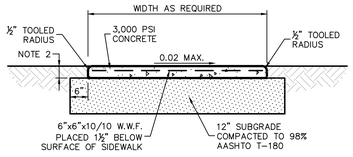
N.T.S.



NOTE: BARS TO BE DRIVEN 3/4 INCHES BELOW TOP OF WHEEL STOP AND GROUT FILLED FLUSH WITH TOP OF WHEEL STOP.

WHEEL STOP

N.T.S.



NOTES:

1. REFER TO FDOT INDEX NO. 310 FOR ADDITIONAL INFORMATION.
2. 4" THICK MIN. (TYP), 6" THICK AT DRIVEWAYS, EXTENDED TWO–FEET BEYOND DRIVE ON BOTH SIDES.
3. PROVIDE 1/8" CONSTRUCTION JOINTS AT A LONGITUDINAL DISTANCE C.C. EQUAL TO THE SIDEWALK WIDTH, MINIMUM DEPTH 1/2".
4. PROVIDE 1/2" EXPANSION JOINTS WITH NON–RISING RILLER AT 30' C.C. TO RUN FULL DEPTH OF SLAB.
5. SIDEWALK SLOPES SHALL MEET THE REQUIREMENTS OF THE AMERICAN WITH DISABILITIES ACT.

CONCRETE SIDEWALK

N.T.S.

DATUM INFORMATION

ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON NAVD 1983 DATUM.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

PLANNING BOARD REVIEW

NO.	DATE	REVISION	BY
5			
4			
3			
2			
1			

DESIGNER: ACS
DRAWN BY: AA
CHECKER: JLA
SCALE: AS SHOWN

JOSE L. ACOSTA, P.E.
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Reg. No. 56827

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CHEN•MOORE &ASSOCIATES

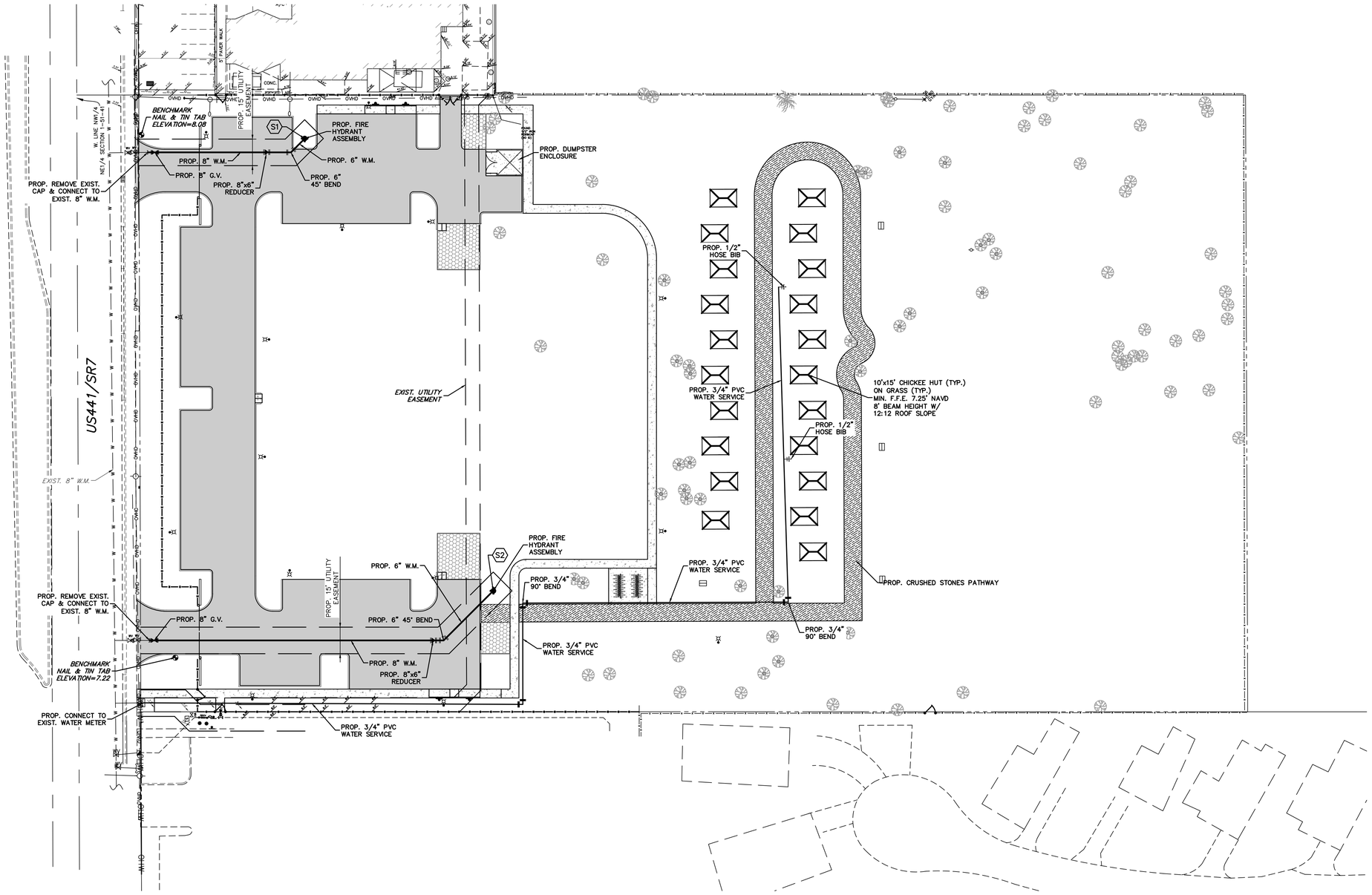
The Seminole Tribe of Florida

SEMINOLE VILLAGE

PAVING GRADING AND DRAINAGE DETAILS

Date: 03/14/2019
Sheet: 7 of 22
Drawing: PDD-1
PROJECT NO. 300.001

v:\Projects\2018\18-300.001 - seminole village-site pln-eng pln update\Design\CAD\Plans\300.001 PH1 Details.dwg last edited on September 17, 2018 12:03 PM by aaristizabal



N

30 15 0 30

1 INCH = 30 FEET

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- CENTERLINE
- EASEMENT LINE
- EXIST. OVERHEAD UTILITY LINES
- EXIST. STORMWATER PIPE
- EXIST. WATER MAIN*
- PROP. WATER MAIN, GATE VALVE, TEE, BEND & HYDRANT
- PROP. STORM PIPE
- PROP. EXFILTRATION TRENCH
- PROP. CONCRETE
- PROP. ASPHALT PAVEMENT
- PROP. CRUSHED STONE
- EXIST. CONCRETE POWER POLE
- EXIST. WOOD POWER POLE
- EXIST. GUY ANCHOR
- EXIST. WATER VALVE
- EXIST. LIGHT POLE
- EXIST. SPOT ELEVATION
- EXIST. SIGN
- EXIST. WATER METER
- EXIST. FIRE HYDRANT
- EXIST. TREE
- EXIST. PALM TREE
- PROP. SPOT ELEVATION
- PROP. CATCH BASIN
- FLOW ARROW
- SAMPLING POINT
- PROP. LIGHT POLE

NOTES:

1. THESE EXISTING CONDITIONS (EC) DRAWINGS WERE BASED ON THE SURVEY PREPARED BY GIBBS LAND SURVEYORS, PHONE (954) 923-7666, JOB NUMBER RN7374, DATED 03/06/2014. ALL ELEVATIONS REFER TO NAVD 1983 DATUM.
2. CONTRACTOR TO FIELD LOCATE AND CONFIRM ALL UTILITIES, WHETHER SHOWN OR NOT, PRIOR TO ANY CONSTRUCTION & NOTIFY ENGINEER OF ANY DISCREPANCIES.

DATUM INFORMATION

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Sunshine 811

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5			
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2			
1			

DESIGNER: ACS
DRAWN BY: AA
CHECKER: JLA
SCALE: AS SHOWN

JOSE L. ACOSTA, P.E.
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2103 Coral Way
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Fax: (786) 497-2300

CHEN·MOORE &ASSOCIATES

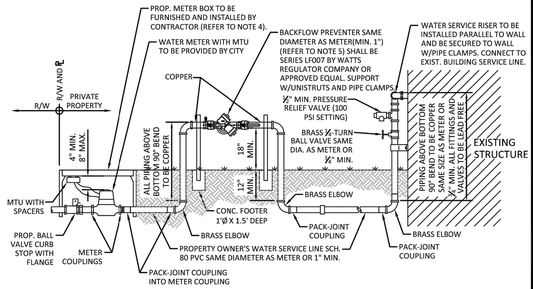
The Seminole Tribe of Florida

SEMINOLE VILLAGE

WATER AND SEWER PLAN

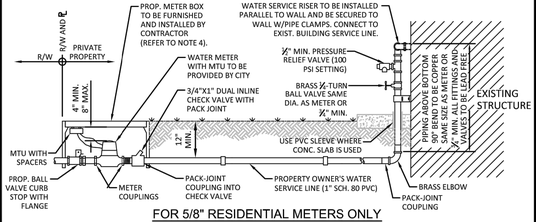
Date: 03/14/2019
Sheet: 8 of 22
Drawing: WS-1
PROJECT NO. 300.001

v:\Projects\2018\18-300.001 - seminole village-site pln-eng pln update\Design\CAD\Plans\300.001 PH1 Water and Sewer.dwg last edited on September 13, 2018 6:38 PM by aaristizabal



FOR 1", 1-1/2" & 2" RESIDENTIAL METERS, AND FOR ALL COMMERCIAL PROPERTIES REGARDLESS OF METER DIAMETER

SCALE: N.T.S.



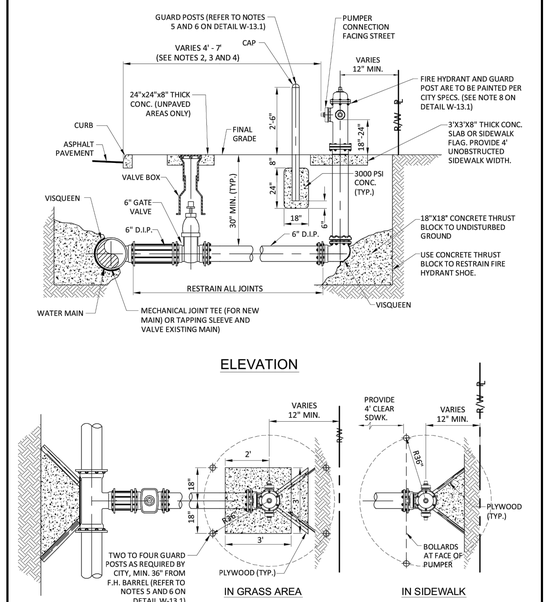
FOR 5/8" RESIDENTIAL METERS ONLY

SCALE: N.T.S.

NOTES FOR ALL SERVICES:

1. IF EXISTING HOSE BIB IS REMOVED, DAMAGED, OR NO HOSE BIB EXISTS, ONE MUST BE INSTALLED: A HOSE BIB VACUUM BREAKER MUST BE INSTALLED AS REQUIRED TO COMPLY WITH THE LATEST REVISION OF THE FLORIDA BUILDING CODE.
2. THREADED PVC FITTINGS (MALE OR FEMALE) NOT ALLOWED. ALL TRANSITIONS FROM PVC TO METAL PIPING/FITTINGS SHALL USE COMPRESSION PACK-JOINT COUPLINGS. THIS INCLUDES PVC CONNECTIONS TO INLINE CHECK VALVE AND BACKFLOW PREVENTER.
3. PIPE CLAMPS FOR ATTACHING WATER SERVICE RISER TO WALL SHALL BE HOT-DIPPED GALVANIZED, WITH ISOLATION MATERIAL BETWEEN THE PIPE AND GALVANIZED METAL.
4. IF EXISTING CONCRETE METER BOX IS IN ACCEPTABLE CONDITION (AS DETERMINED BY ECSD) IT MAY BE RE-USED.
5. IF EXISTING BACKFLOW PREVENTER IS DETERMINED TO BE IN ACCEPTABLE CONDITION IT MAY BE RE-USED PROVIDED IT IS RE-CERTIFIED.
6. ALL PRIVATE SERVICE LINE INSTALLATIONS SHALL COMPLY WITH THE LATEST REVISION OF THE FLORIDA BUILDING CODE.
7. ALL FITTINGS TO BE BRASS.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL		REVISED: 02/14/2018
DRAWN: EAM	TYPICAL WATER SERVICE FROM METER TO STRUCTURE FOR 5/8" THROUGH 2" METERS		DRAWING NO.
APPROVED: XXX			W-10



ELEVATION

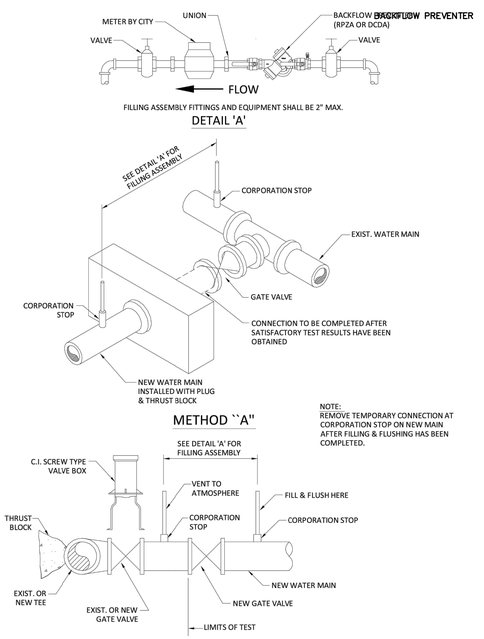
PLAN VIEW

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL		REVISED: 06/08/2014
DRAWN: EAM	TYPICAL FIRE HYDRANT INSTALLATION		DRAWING NO.
APPROVED: XXX			W-13

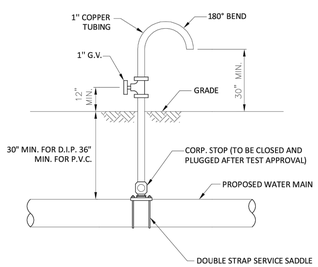
NOTES:

1. IN ALL CASES, PROVIDE 4' UNOBSTRUCTED SIDEWALK CLEAR OF THE FIRE HYDRANT AND BOLLARDS.
2. FIRE HYDRANTS SHALL BE LOCATED BETWEEN 4' AND 7' FROM THE FACE OF CURB.
3. FIRE HYDRANTS SHALL NOT BE LOCATED WITHIN A RADIUS OR WITHIN FDOT CLEAR DRIVING ZONE.
4. WITHIN FDOT R/W, WHERE SPACE IS RESTRICTED THE FIRE HYDRANT MAY BE LOCATED 2' FROM THE FACE OF THE CURB AS LONG AS THERE IS A MINIMUM 4' UNOBSTRUCTED SIDEWALK BEHIND THE HYDRANT, AND THE HYDRANT BASE IS 4" OR LESS FROM GRADE IN ACCORDANCE WITH F.D.O.T. INDEX 700.
5. GUARD POSTS SHALL NOT BE ALLOWED WITHIN FDOT R/W.
6. OTHER THAN FDOT R/W, GUARD POSTS SHALL BE INSTALLED AS REQUIRED FOR SAFETY OR AS APPROVED BY THE DEPT. OF PUBLIC UTILITIES. IN SIDEWALK, LOCATE GUARD POSTS AT THE FACE OF THE PUMPER AND 2'-6' LEFT/RIGHT OF ℄ OF THE FIRE HYDRANT.EXTRA POSTS MAY BE REQUIRED IN INDUSTRIAL AND CONGESTED TRAFFIC AREAS. (4 POSTS MAX.)
7. FIRE HYDRANT CONCRETE SLAB AND CONCRETE GUARD POST FOOTINGS SHALL BE DIFFERENT POURS.
8. THE FIRE HYDRANT BONNET, OPERATING NUT, HOLD-DOWN NUT, PUMPER CAP AND HOSE CAPS SHALL BE PAINTED GREEN, AND THE HYDRANT UPPER BARREL SHALL BE PAINTED SILVER IN ACCORDANCE WITH CITY SPECIFICATIONS.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL		REVISED: 06/08/2014
DRAWN: EAM	TYPICAL FIRE HYDRANT NOTES		DRAWING NO.
APPROVED: XXX			W-13.1



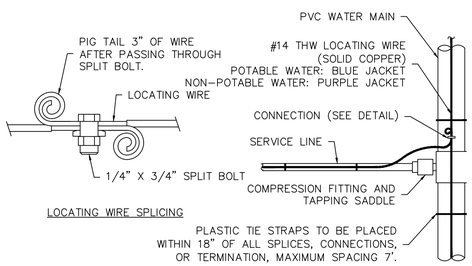
ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL		REVISED: 06/08/2014
DRAWN: EAM	FILLING AND FLUSHING DETAILS		DRAWING NO.
APPROVED: XXX			W-15

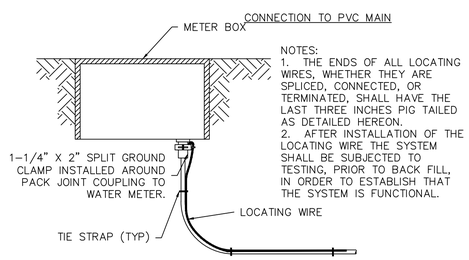


NOTES:

SAMPLING POINT SHALL NOT BE REMOVED UNTIL APPROVAL IS OBTAINED FROM BROWARD COUNTY HEALTH DEPARTMENT.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL		REVISED: 06/08/2014
DRAWN: EAM	SAMPLING POINT DETAIL		DRAWING NO.
APPROVED: XXX			W-16





SERVICE AND METER

WATER SERVICE LOCATING WIRE DETAIL

DATUM INFORMATION

ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON NAVD 1983 DATUM.

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

PLANNING BOARD REVIEW

NO.	DATE	REVISION	BY
5			
4			
3			
2			
1			

DESIGNER: ACS
DRAWN BY: AA
CHECKER: JLA
SCALE: AS SHOWN

JOSE L. ACOSTA, P.E.
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CHEN•MOORE &ASSOCIATES

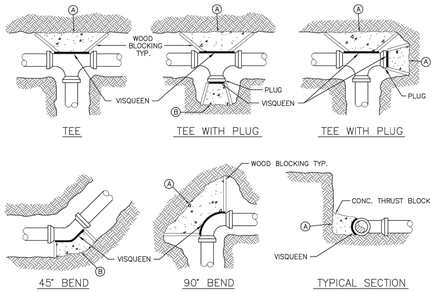
The Seminole Tribe of Florida

SEMINOLE VILLAGE

WATER AND SEWER DETAILS

Date: 03/14/2019
Sheet: 9 of 22
Drawing: WSD-1
PROJECT NO. 300.001

v:\Projects\2018\18-300.001 - seminole village-site pln-eng pln update\Design\CAD\Plans\300.001 PH1 Details.dwg last edited on September 17, 2018 12:03 PM by aaristizabal



MINIMUM CONCRETE THRUST BLOCKING BEARING ON UNDISTURBED MATERIAL. (SQ. FT.)				
MARK	PIPE SIZE			
	4" OR 6"	8"	10"	12"
A				
B				

NOTES:

1. THRUST BLOCKS ARE TO BE USED IN COMBINATION WITH, AND NOT IN LIEU OF, MECHANICAL JOINT RESTRAINTS AS REQUIRED BY THE CITY. REFER TO THRUST RESTRAINT DESIGN TABLE IN STANDARD DETAIL G-10.
2. THE AREAS IN THE TABLE ARE BASED ON _____ POUNDS PER SQUARE FOOT SOIL BEARING AGAINST THE UNDISTURBED TRENCH WALL AND ARE TO REPRESENT THE MINIMUM VERTICAL PROJECTED AREA AT THE THRUST BLOCK IN A PLANE PERPENDICULAR TO THE LINE BISECTING THE INCLUDING ANGLE OF THE FITTING.
3. POUR THRUST BLOCKS AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EVACUATE LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL.
4. ON BENDS AND TEES, EXTEND THRUST BLOCKS FULL LENGTH OF FITTING.
5. DO NOT COVER COUPLING OR JOINTS WITH CONCRETE.
6. CONCRETE TO BE 2500 P.S.I. MINIMUM 28 DAY STRENGTH.
7. TABLE TO BE COMPLETED BY DESIGN ENGINEER.

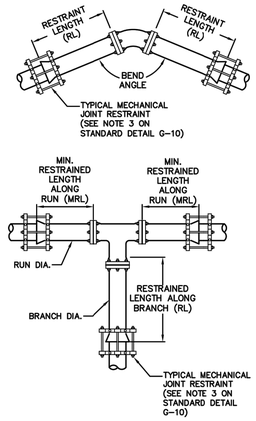
ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	THRUST BLOCK DESIGN	DRAWING NO.
APPROVED: XXX		G-10

THRUST RESTRAINT NOTES:

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

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	JOINT RESTRAINT DESIGN FOR PVC AND DIP THRUST RESTRAINT NOTES	DRAWING NO.
APPROVED: XXX		G-11

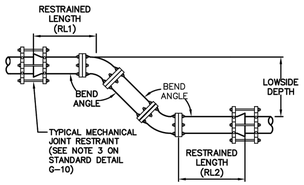
HORIZONTAL BENDS			
PIPE DIA. (INCHES)	BEND (ANGLE)	RESTRAINED LENGTH (RL) (FT)	
		PVC	*DIP
24	11 1/4	.	.
	22 1/2	.	.
	45	.	.
	90	.	.
16	11 1/4	.	.
	22 1/2	.	.
	45	.	.
	90	.	.
12	11 1/4	.	.
	22 1/2	.	.
	45	.	.
	90	.	.
8	11 1/4	.	.
	22 1/2	.	.
	45	.	.
	90	.	.
6	11 1/4	.	.
	22 1/2	.	.
	45	.	.
	90	.	.
4	11 1/4	.	.
	22 1/2	.	.
	45	.	.
	90	.	.



TEES AND TAPPING SLEEVES								
RUN DIA. (INCHES)	BRANCH DIA. (INCHES)	MINIMUM RESTRAINED LENGTH ALONG RUN (FT.)	MINIMUM RESTRAINED LENGTH ALONG BRANCH (FT.)		RUN DIA. (INCHES)	BRANCH DIA. (INCHES)	MINIMUM RESTRAINED LENGTH ALONG RUN (FT.)	MINIMUM RESTRAINED LENGTH ALONG BRANCH (FT.)	
			PVC	*DIP				PVC	*DIP
24"	24"	.	.	.	12"	12"	.	.	.
	16"	.	.	.		8"	.	.	.
	12"	.	.	.		6"	.	.	.
	8"	.	.	.		4"	.	.	.
	6"	.	.	.	8"	8"	.	.	.
	4"	.	.	.		6"	.	.	.
16"	16"	.	.	.		4"	.	.	.
	12"	.	.	.	6"	6"	.	.	.
	8"	.	.	.		4"	.	.	.
	6"	.	.	.	4"	4"	.	.	.
	4"	.	.	.	.	.	.	.	.

*ALL DIP JOINT–RESTRAINT CALCULATIONS ASSUME THE PIPE WILL BE WRAPPED IN POLYETHYLENE ENCASEMENT

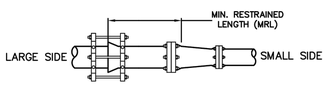
ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	JOINT RESTRAINT DESIGN FOR PVC AND DIP HORIZONTAL BENDS AND TEES	DRAWING NO.
APPROVED: XXX		G-11.1



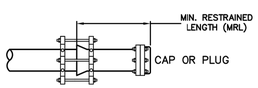
VERTICAL OFFSETS						
			PVC		*DIP	
PIPE DIA. (INCHES)	BEND (ANGLE)	LOWSIDE DEPTH (FT)	RESTRAINED LENGTHS		RESTRAINED LENGTHS	
			RL1 (FT.)	RL2 (FT.)	RL1 (FT.)	RL2 (FT.)
24	45	4	.	.	.	.
		5	.	.	.	.
		6	.	.	.	.
		7	.	.	.	.
16	45	4	.	.	.	.
		5	.	.	.	.
		6	.	.	.	.
		7	.	.	.	.
12	45	4	.	.	.	.
		5	.	.	.	.
		6	.	.	.	.
		7	.	.	.	.
8	45	4	.	.	.	.
		5	.	.	.	.
		6	.	.	.	.
		7	.	.	.	.
6	45	4	.	.	.	.
		5	.	.	.	.
		6	.	.	.	.
		7	.	.	.	.
4	45	4	.	.	.	.
		5	.	.	.	.
		6	.	.	.	.
		7	.	.	.	.

*ALL DIP JOINT–RESTRAINT CALCULATIONS ASSUME THE PIPE WILL BE WRAPPED IN POLYETHYLENE ENCASEMENT

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	JOINT RESTRAINT DESIGN FOR PVC AND DIP VERTICAL OFFSETS	DRAWING NO.
APPROVED: XXX		G-11.2



REDUCERS							
LARGE SIDE	SMALL SIDE	MINIMUM LENGTH TO RESTRAIN ON LARGE SIDE (FT)		LARGE SIDE	SMALL SIDE	MINIMUM LENGTH TO RESTRAIN ON LARGE SIDE (FT)	
		PVC	*DIP			PVC	*DIP
24"	16"	.	.	12"	8"	.	.
	12"	.	.		6"	.	.
	8"	.	.		4"	.	.
	6"	.	.	8"	6"	.	.
	4"	.	.		4"	.	.
16"	12"	.	.		2"	.	.
	8"	.	.	6"	4"	.	.
	6"	.	.		2"	.	.
	4"	.	.	4"	2"	.	.



DEAD ENDS		
PIPE DIA. (INCHES)	MIN. RESTRAINED LENGTH (FT)	
	PVC	*DIP
24"	.	.
16"	.	.
12"	.	.
8"	.	.
6"	.	.
4"	.	.

*ALL DIP JOINT–RESTRAINT CALCULATIONS ASSUME THE PIPE WILL BE WRAPPED IN POLYETHYLENE ENCASEMENT

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	JOINT RESTRAINT DESIGN FOR PVC AND DIP REDUCERS AND DEAD ENDS	DRAWING NO.
APPROVED: XXX		G-11.3

DATUM INFORMATION

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Always call 811 two full business days before you dig to have underground utilities located and marked.

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PLANNING BOARD REVIEW

NO.	DATE	REVISION	BY
5			
4			
3			
2			
1			

DESIGNER: ACS
DRAWN BY: AA
CHECKER: JLA
SCALE: AS SHOWN

JOSE L. ACOSTA, P.E.
CIVIL ENGINEER
FL Reg. No. 76927

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Tel: (786)497-1500
Fax: (786) 497-2300
CHEN•MOORE &ASSOCIATES

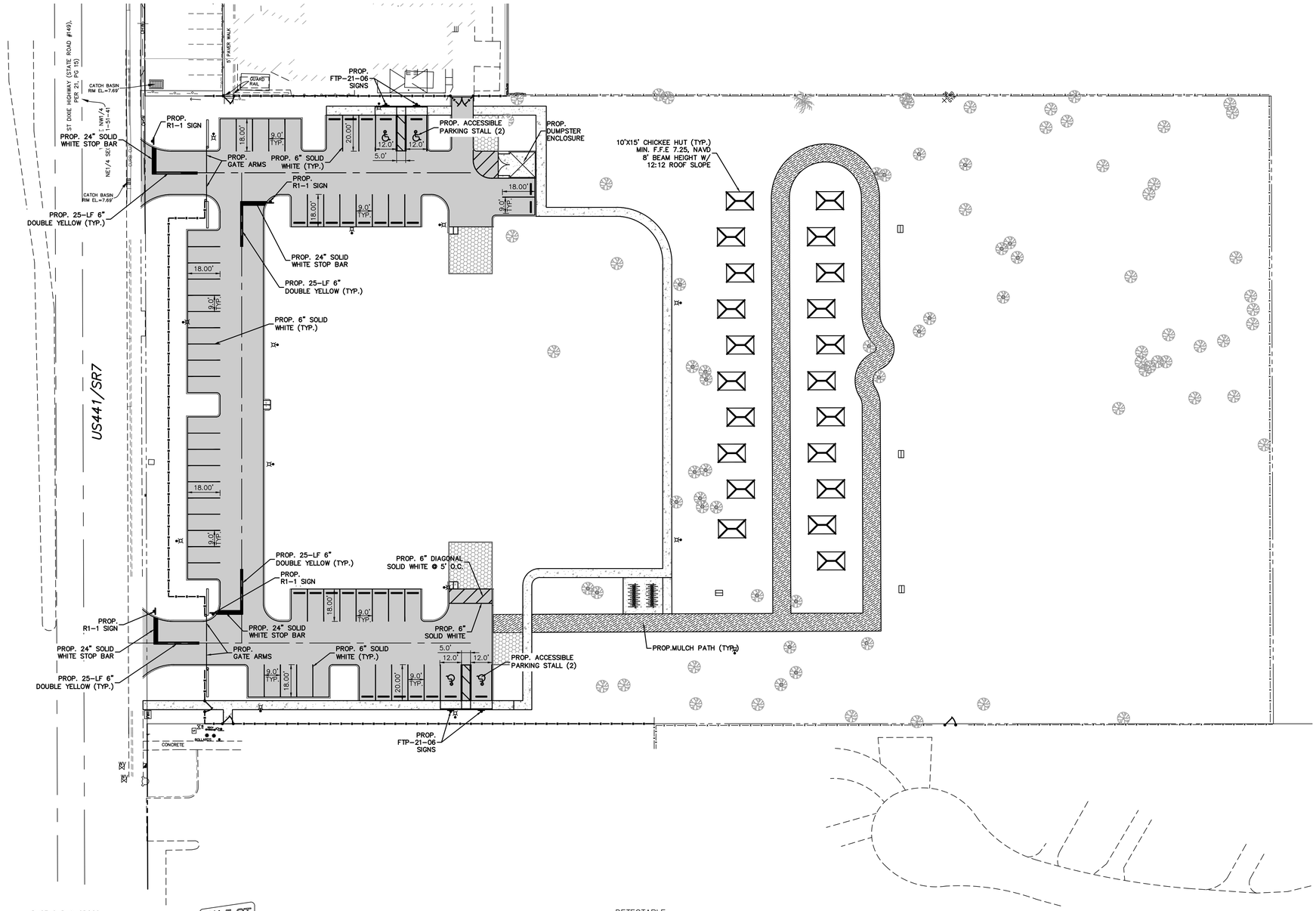
The Seminole Tribe of Florida

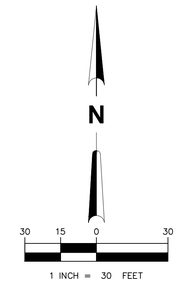
SEMINOLE VILLAGE

WATER AND SEWER DETAILS

Date: 03/14/2019
Sheet: 10 of 22
Drawing: WSD-2
PROJECT NO. 300.001

v:\Projects\2018\18-300.001 - seminole village-site pln-eng pln update\Design\CAD\Plans\300.001 PH1 Details.dwg last edited on September 17, 2018 12:03 PM by aaristizabal





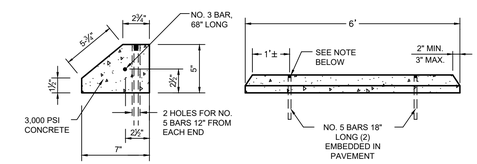
LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- CENTERLINE
- EASEMENT LINE
- OVHD — OVHD EXIST. OVERHEAD UTILITY LINES
- PROP. CONCRETE
- PROP. ASPHALT PAVEMENT
- PROP. CRUSHED STONE
- EXIST. CONCRETE POWER POLE
- EXIST. WOOD POWER POLE
- EXIST. GUY ANCHOR
- EXIST. LIGHT POLE
- EXIST. SIGN
- EXIST. TREE
- EXIST. PALM TREE

NOTES:

1. THESE EXISTING CONDITIONS (EC) DRAWINGS WERE BASED ON THE SURVEY PREPARED BY GIBBS LAND SURVEYORS, PHONE (954) 923-7666, JOB NUMBER RN7374, DATED 03/06/2014. ALL ELEVATIONS REFER TO NAVD 1983 DATUM.
2. CONTRACTOR TO FIELD LOCATE AND CONFIRM ALL UTILITIES, WHETHER SHOWN OR NOT, PRIOR TO ANY CONSTRUCTION & NOTIFY ENGINEER OF ANY DISCREPANCIES.
3. ALL SIGNAGE SHALL BE IN COMPLIANCE WITH THE ZONING AND LAND DEVELOPMENT REGULATIONS.

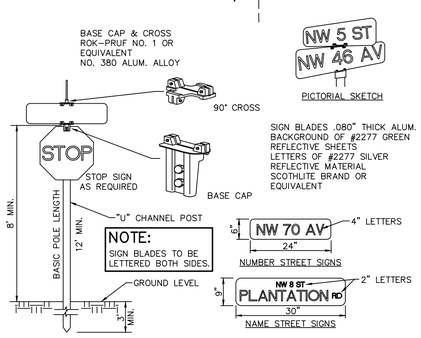
R1-1
30"x 30"



NOTE: BARS TO BE DRIVEN 3/4 INCHES BELOW TOP OF WHEEL STOP AND GROUT FILLED FLUSH WITH TOP OF WHEEL STOP.

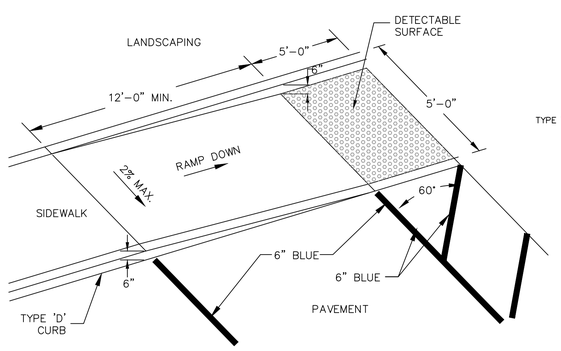
WHEEL STOP

N.T.S.



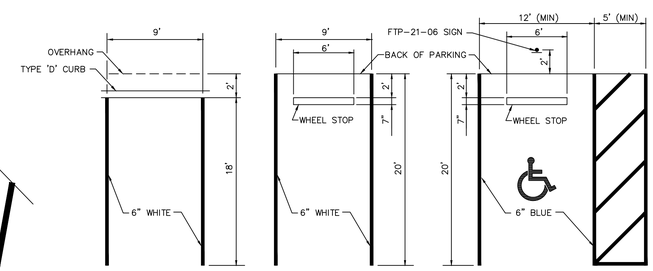
TYPICAL STREET SIGN WITH POST

N.T.S.



ACCESSIBLE RAMP DETAIL

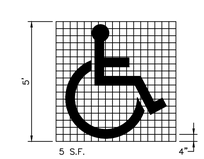
N.T.S.



COMPACT TYPICAL ACCESSIBLE

PARKING STALLS

N.T.S.



NOTE
PROVIDE PAVEMENT SYMBOL IN ACCESSIBLE PARKING SPACES. THE SYMBOL SHALL BE WHITE IN COLOR.

RE: FDOT INDEX NO. 17346 & 17355

PARKING BY DISABLED PERMIT ONLY

FTP-21-06

FINE $250 MAX

FTP-22-06

DATUM INFORMATION

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Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

PLANNING BOARD REVIEW

NO.	DATE	REVISION	BY
5			
4			
3			
2			
1			

DESIGNER: ACS
DRAWN BY: AA
CHECKER: JLA
SCALE: AS SHOWN

JOSE L. ACOSTA, P.E.
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FL Reg. No. 76267

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Fax: (786) 497-2300
CHEN-MOORE &ASSOCIATES

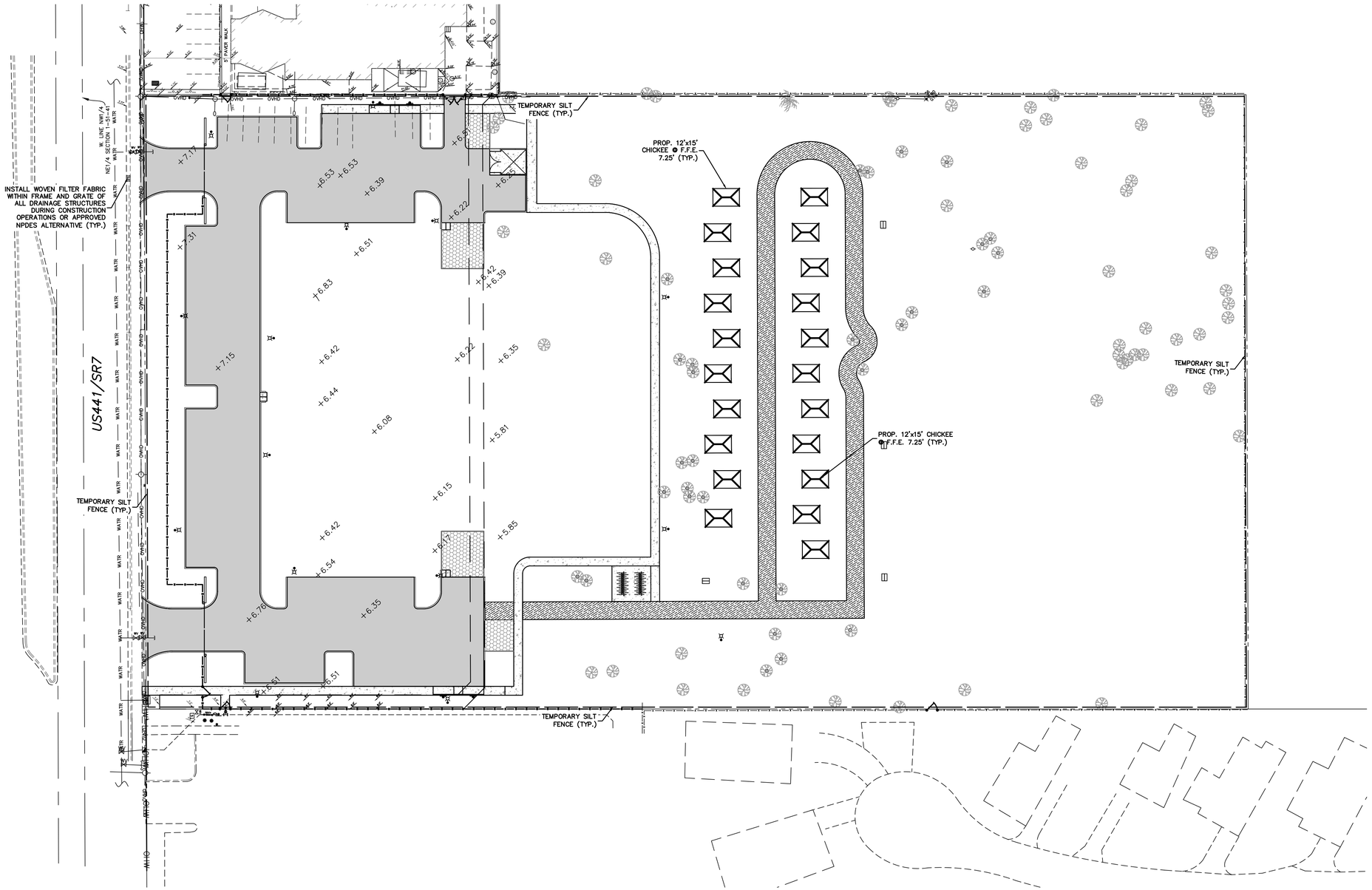
The Seminole Tribe of Florida

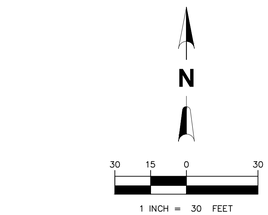
SEMINOLE VILLAGE

SIGNAGE & PAVEMENT MARKING PLAN

Date: 03/14/2019
Sheet: 11 of 22
Drawing: SM-1
PROJECT NO. 300.001

v:\Projects\2018\18-300.001 - seminole village-site pln-eng pln update\Design\CAD\Plans\300.001 PH1 Signing and Marking Plan.dwg last edited on September 17, 2018 12:19 PM by aaristizabal





LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- CENTERLINE
- EASEMENT LINE
- OVHD — EXIST. OVERHEAD UTILITY LINES
- TEMPORARY SILT FENCE
- PROP. CONCRETE
- PROP. ASPHALT PAVEMENT
- PROP. CRUSHED STONE
- EXIST. CONCRETE POWER POLE
- EXIST. WOOD POWER POLE
- EXIST. GUY ANCHOR
- EXIST. LIGHT POLE
- EXIST. SIGN
- EXIST. FIRE HYDRANT
- EXIST. TREE
- EXIST. PALM TREE
- PROP. CATCH BASIN

NOTES:

1. THESE EXISTING CONDITIONS (EC) DRAWINGS WERE BASED ON THE SURVEY PREPARED BY GIBBS LAND SURVEYORS, PHONE (954) 923-7666, JOB NUMBER RN7374, DATED 03/06/2014. ALL ELEVATIONS REFER TO NAVD 1983 DATUM.
2. CONTRACTOR TO FIELD LOCATE AND CONFIRM ALL UTILITIES, WHETHER SHOWN OR NOT, PRIOR TO ANY CONSTRUCTION & NOTIFY ENGINEER OF ANY DISCREPANCIES.
3. ALL SIGNAGE SHALL BE IN COMPLIANCE WITH THE ZONING AND LAND DEVELOPMENT REGULATIONS.

DATUM INFORMATION

ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON NAVD 1983 DATUM.

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PLANNING BOARD REVIEW

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4			
3			
2			
1			

DESIGNER: ACS
DRAWN BY: AA
CHECKER: JLA
SCALE: AS SHOWN

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CHEN·MOORE &ASSOCIATES

The Seminole Tribe of Florida

SEMINOLE VILLAGE

STORMWATER POLLUTION PREVENTION PLAN

Date: 03/14/2019
Sheet: 12 of 22
Drawing: PPP-1
PROJECT NO. 300.001

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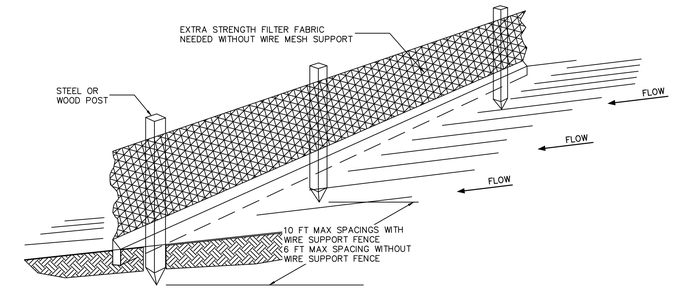
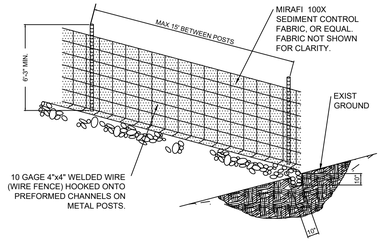




NOTES:

1. DRIVE WOOD POSTS (1.3 LBS/FT MIN) 18" MIN INTO GROUND AND EXCAVATE A 4"X4" TRENCH UPHILL 5' LONG (MIN) ALONG LINE OF POSTS. WOOD. POSTS 4" IN DIAMETER OR 2"X4" MAY BE USED.
2. ATTACH WIRE FENCE TO POSTS AND EXTEND THE BOTTOM OF THE FENCE 8" INTO THE EXCAVATED TRENCH. ALTERNATE : USE SEDIMENT CONTROL FABRIC WITH PRE-SEWN POCKETS FOR POSTS SO THAT WIRE FENCE IS NOT REQ'D. ATTACH THE SEDIMENT CONTROL FABRIC (36" WIDE) TO THE WIRE FENCE W/METAL CLIPS OR WIRE AND EXTEND THE BOTTOM OF THE FABRIC 6" INTO THE TRENCH. BOTTOM OF SEDIMENT CONTROL FABRIC MUST BE PLACED IN TRENCH AND SECURED WITH GRANULAR FILL TO A HEIGHT OF 6" ABOVE GROUND LEVEL SO THAT RUNOFF IS FORCED TO GO THROUGH THE FENCE AND CANNOT GO UNDER IT. SILT FENCE SHALL BE MAINTAINED AND TRAPPED SEDIMENTS SHALL BE REMOVED BY THE CONTRACTOR PERIODICALLY AS DETERMINED BY THE ENGINEER OR AS NECESSARY (MAX. 6 MONTHS). THE CONTRACTOR IS REQUIRED TO REMOVE ALL SILT FENCES AND AREA TO BE RESTORED TO THE ORIGINAL CONDITION UPON COMPLETION OF CONSTRUCTION.

SILT FENCE DETAIL

D105

SHEET FLOW APPLICATION: SILT FENCE

THIS SEDIMENT BARRIER USES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.

1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (90 cm). HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.
2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED AS DESCRIBED IN ITEM NO. 8 BELOW.
3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET (3 m) APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES (30 cm). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET (1.8 m).
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES (10cm) WIDE AND 4 INCHES (10 cm) DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH (25 mm) LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES (5 cm) AND SHALL NOT EXTEND MORE THAN 36 INCHES (90 cm) ABOVE THE ORIGINAL GROUND SURFACE.
6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES (20 cm) OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABIRC SHALL NOT EXTEND MORE THAN 36 INCHES (90 cm) ABOVE THE ORIGINAL GROUND SURFACE.
7. WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM NO. 6 APPLYING.
8. WHEN ATTACHING TWO SLIT FENCES TOGETHER, PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE. ROTATE BOTH POSTS AT LEAST 180 DEGREES ON A CLOCKWISE DIRECTIONS TO CREATE A TIGHT SEAL WITH THE FILTER FABRIC. DRIVE BOTH POSTS INTO THE GROUND AND BURY THE FLAP.
9. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
10. THE MOST EFFECTIVE APPLICATION CONSISTS OF A DOUBLE ROW OF SILT FENCES SPACED A MINIMUM OF THREE FEET APART. THE THREE FOOT SEPARATION IS SO THAT IF THE FIRST ROW COLLAPSES IT WILL NOT FALL ON THE SECOND ROW. WIRE OR SYNTHETIC MESH MAY BE USED TO REINFORCE THE FIRST ROW.
11. WHEN USED TO CONTROL SEDIMENTS FROM A STEEP SLOPE, SILT FENCES SHOULD BE PLACED AWAY FROM THE TOE OF THE SLOPE FOR INCREASED HOLDING CAPACITY.
12. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

CHANNEL FLOW APPLICATIONS

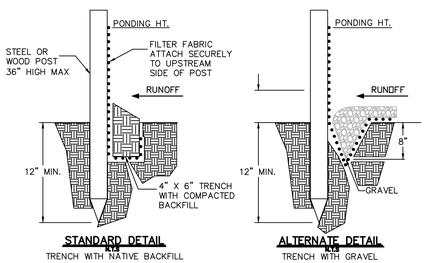
1. IF A FILTER BARRIER IS TO BE CONSTRUCTED ACROSS A DITCH LINE OR SWALE, THE BARRIER SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE BOTTOM OF THE END SECTIONS OF THE FENCE ARE HIGHER IN ELEVAION THAN THE TOP OF THE CENTER SECTION TO ELIMINATE END FLOW. THE PLAN CONFIGURATION SHALL RESEMBLE AN ARC OR HORSESHOE WITH THE ENDS ORIENTED UPSLOPE.
2. USE FDOT STANDARD INDEX 102, CHART 1 AS A GUIDE FOR SPACING.

MAINTENANCE

1. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

   SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE BEFORE THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE
2. FABRIC SHALL BE REPLACED PROMPTLY.

   SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITES REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.



STANDARD DETAIL N.T.S.
TRENCH WITH NATIVE BACKFILL

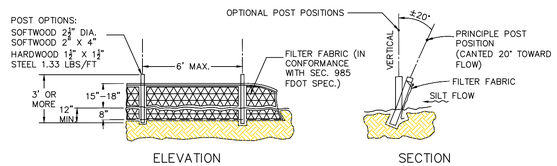
ALTERNATE DETAIL N.T.S.
TRENCH WITH GRAVEL

NOTE:

1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

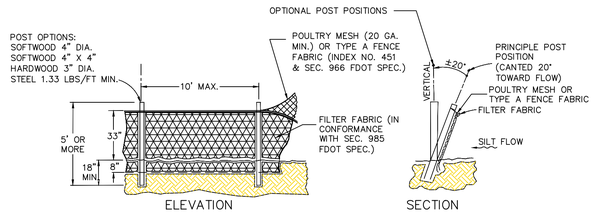
SILT FENCE INSTALLATION

N.T.S.



TYPE III SILT FENCE

N.T.S.



TYPE IV SILT FENCE

N.T.S.

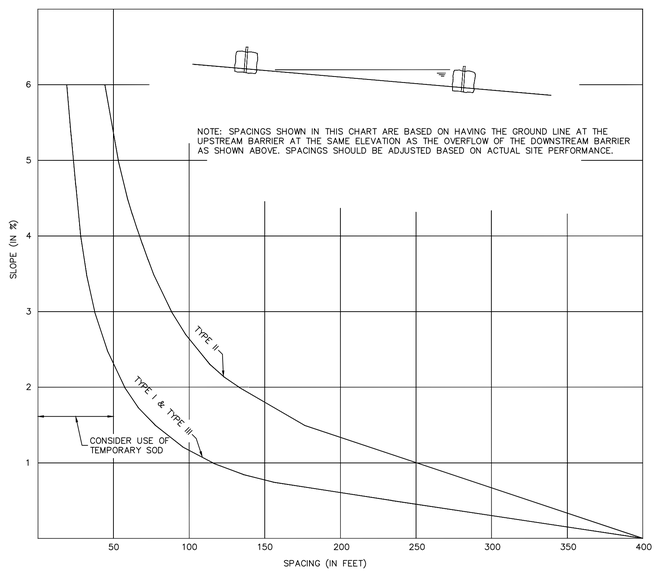
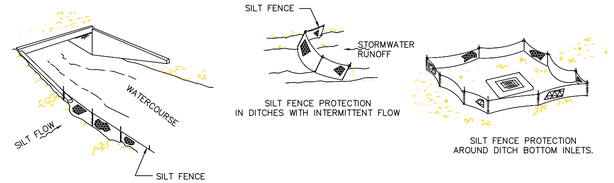


CHART I

RECOMMENDED SPACING FOR BALED HAY BARRIERS AND TYPE III SILT FENCE

N.T.S.

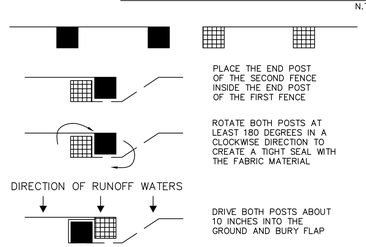


SILT FENCE APPLICATIONS

N.T.S.

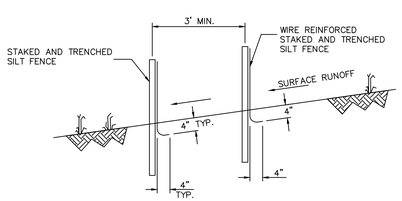
GENERAL NOTES

1. TYPE III SILT FENCE TO BE USED AT MOST LOCATIONS. WHERE USED IN DITCHES, THE SPACING FOR TYPE III SILT FENCE SHALL BE IN ACCORDANCE WITH CHART 1, SHEET 1.
2. TYPE IV SILT FENCE TO BE USED WHERE LARGE SEDIMENT LOADS ARE ANTICIPATED. SUGGESTED USE IS WHERE FILL SLOPE IS 1:2 OR STEEPER AND LENGTH OF SLOPE EXCEEDS 25 FEET. AVOID USE WHERE THE DETAINED WATER MAY BACK INTO TRAVEL LANES OR OFF THE RIGHT-OF-WAY.
3. DO NOT CONSTRUCT SILT FENCES ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.
4. WHERE USED AS SLOPE PROTECTION, SILT FENCE IS TO BE CONSTRUCTED ON 0% LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG THE LENGHT OF THE FENCE.



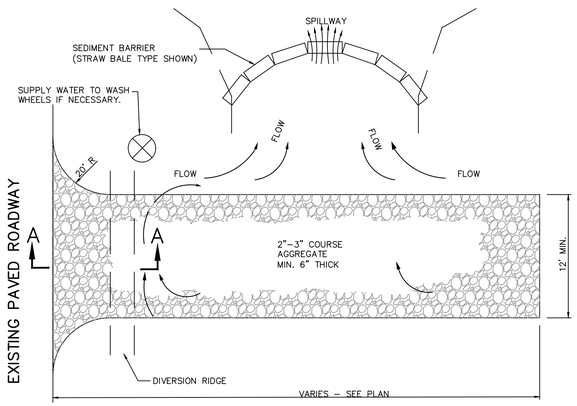
SILT FENCE ATTACHMENT DETAIL

N.T.S



DOUBLE ROW STAKED SILT FENCE DETAIL

N.T.S

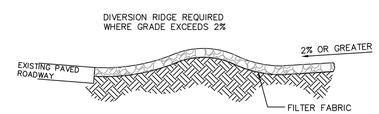


PLAN

N.T.S.

NOTE:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OFANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABLIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.



SECTION 'A-A'

N.T.S.

NOTE:
USE SANDBAGS, STRAW BALES OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF TO BASIN AS REQUIRED.

GENERAL NOTES

TEMPORARY ACCESS ROADS AND PARKING AREAS:

1. TEMPORARY ROADS SHALL FOLLOW THE CONTOUR OF THE NATURAL TERRAIN TO THE EXTENT POSSIBLE. SLOPES SHOULD NOT EXCEED 10 PERCENT.
2. TEMPORARY PARKING AREAS SHOULD BE LOCATED ON NATURALLY FLAT AREAS TO MINIMIZE GRADING. GRADES SHOULD BE SUFFICIENT TO PROVIDE DRAINAGE BUT SHOULD NOT EXCEED 4 PERCENT.
3. ROADBEDS SHALL BE AT LEAST 14 FEET (5.5 m) WIDE FOR ONE-WAY TRAFFIC AND 20 FEET (8 m) WIDE FOR TWO-WAY TRAFFIC.
4. ALL CUTS AND FILLS SHALL HAVE SIDE SLOPES THAT ARE STABLE FOR THE PARTICULAR SOIL. SLOPES OF 2:1 OR FLATTER ARE RECOMMENDED FOR CLAY SOILS, AND SLOPES OF 3:1 OR FLATTER ARE RECOMMENDED FOR SANDY SOILS.
5. STORMWATER SYSTEM SHALL BE PROVIDED AS NEEDED AND SHALL BE DESIGNED AND CONSTRUCTED ACCORDING TO APLICABLE REGULATIONS.
6. THE ROADBED OR PARKING SURFACE SHALL BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL.
7. A 6 INCH (15 cm) COURSE OF FDOT NO. 1 AGGREGATE SHALL BE APPLIED IMMEDIATELY AFTER GRADING OR THE COMPLETION OF UTILITY INSTALLATION WITHIN THE RIGHT-OF-WAY. FILTER FABRIC MAY BE APPLIED TO THE ROADBED FOR ADDITIONAL STABILITY ACCORDING TO THE FABRIC MANUFACTURER'S SPECIFICATIONS.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

N.T.S.

DATUM INFORMATION

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Always call 811 two full business days before you dig to have underground utilities located and marked.

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PLANNING BOARD REVIEW

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The Seminole Tribe of Florida

SEMINOLE VILLAGE
STORMWATER POLLUTION PREVENTION DETAILS

Date: 03/14/2019
Sheet: 13 of 22
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PROJECT NO. 300.001

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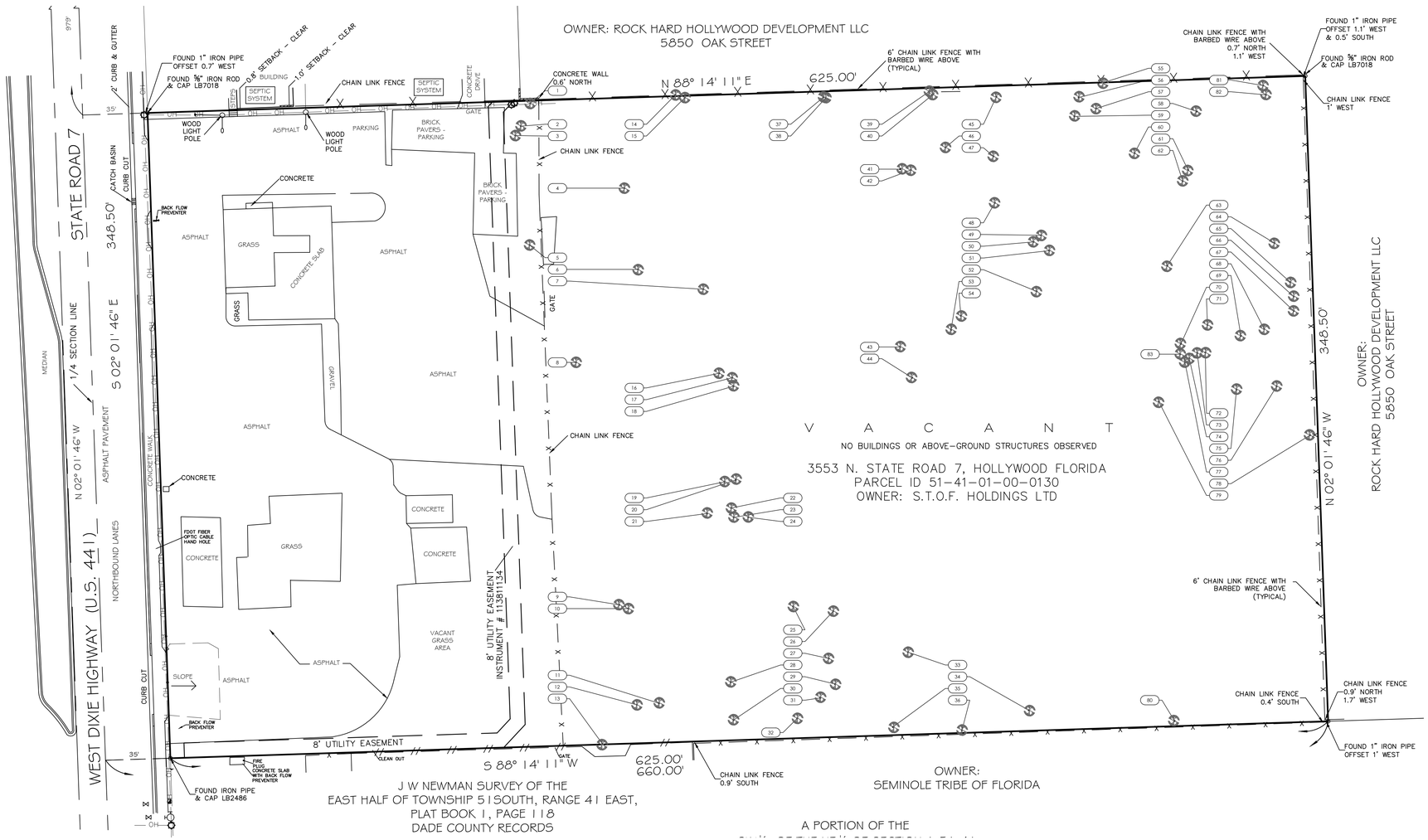
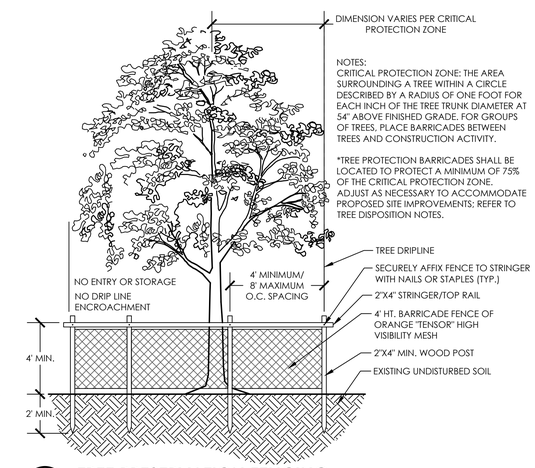


ROOT PRUNING NOTES

ROOT PRUNING IS THE CUTTING OF ROOTS TO ACCOMMODATE THE PROPOSED INFRASTRUCTURE AND SITE IMPROVEMENTS. IN INSTANCES WHERE ROOT PRUNING IS REQUIRED, THE WORK SHALL BE CONDUCTED BY AN ISA CERTIFIED ARBORIST. PRIOR TO ROOT PRUNING THE TREES SHALL BE EVALUATED BY AN ISA CERTIFIED ARBORIST TO DETERMINE WHETHER THE ROOT CUTTING WILL DESTABILIZE THE TREE OR CAUSE UNACCEPTABLE DAMAGE TO THE TREE.

1. ROOTS MAY NOT BE TORN OFF WITH POWER EQUIPMENT, AND CUT ROOTS SHALL NOT BE LEFT WITH RIPPED, RAGGED OR SHREDDED ENDS. ROOTS MUST BE CLEANLY SEVERED WITH SHARP HAND TOOLS OR POWER ROOT SAWS.
2. PRUNING TRENCHES SHALL BE BACKFILLED WITH NATIVE SOILS, FREE OF DEBRIS.
3. WHEN A ROOT WITH A DIAMETER OF TWO INCHES OR GREATER IS ENCOUNTERED, A FINAL CLEAN CUT SHALL BE MADE WITH A SAW. THE CUT SHALL BE MADE FLUSH WITH THE SIDE OF THE TRENCH CLOSEST TO THE TREE.
4. WHEN ADJACENT TO NEW CURBING, UNCURBED PAVED AREAS, OR AREAS OF GRADE CHANGES, ROOTS SHALL BE CUT NO MORE THAN 18 INCHES TOWARDS THE TREE FROM THE BACK OF THE CURB, THE EDGE OF THE PAVEMENT, OR THE POINT OF INTERSECTION OF OLD AND NEW GRADES, RESPECTIVELY. AFTER ROOT PRUNING, NO EXCAVATION FOR THE INSTALLATION OF FORMS OR FOR ANY OTHER REASON MAY BE PERFORMED ANY CLOSER THAN SIX INCHES OUTSIDE OF THE ROOT PRUNING CUT. THE ROOT PRUNING TRENCH SHALL BE BACKFILLED WITH NATIVE SOIL.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY TREES IN NEED OF SUPPLEMENTAL SUPPORT FOLLOWING ROOT PRUNING. PRIOR TO COMMENCEMENT OF ROOT PRUNING, THE CONTRACTOR SHALL FURNISH A SUPPLEMENTAL SUPPORT PLAN WHICH IDENTIFIES EACH TREE IN NEED OF TEMPORARY SUPPLEMENTAL SUPPORT AND PROPOSE A STAKING/GUYING SYSTEM. THE CONTRACTOR SHALL INSTALL THE APPROVED SUPPORT SYSTEMS IMMEDIATELY FOLLOWING ROOT PRUING.



1 TREE PRESERVATION FENCING

1/4" = 1'-0" 329343-24

ALL TREES TO REMAIN SHALL BE PROTECTED PER DETAIL 1, SHEET TDP-1. TREE PRESERVATION FENCING SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF CONSTRUCTION.

EXISTING TREE INVENTORY

TREE ID #	COMMON NAME	BOTANICAL NAME	DBH (INCHES)	CANOPY DIAMETER	DISPOSITIION	SPECIMEN
1	SCHEFFLERA	SCHEFFLERA ACTINOPHYLLA	8		PRESERVE	NO
2	OAK	QUERCUS VIRGINIANA	26		PRESERVE	YES
3	OAK	QUERCUS VIRGINIANA	36		PRESERVE	YES
4	OAK	QUERCUS VIRGINIANA	30		PRESERVE	YES
5	OAK	QUERCUS VIRGINIANA	36		PRESERVE	YES
6	BANYAN	FICUS BENGHALENSIS	60		PRESERVE	YES
7	UNKNOWN	UNKNOWN	24		PRESERVE	YES
8	OAK	QUERCUS VIRGINIANA	30		PRESERVE	YES
9	OAK	QUERCUS VIRGINIANA	24		PRESERVE	YES
10	OAK	QUERCUS VIRGINIANA	24		PRESERVE	YES
11	OAK	QUERCUS VIRGINIANA	24		PRESERVE	YES
12	OAK	QUERCUS VIRGINIANA	24		PRESERVE	YES
13	OAK	QUERCUS VIRGINIANA	48		PRESERVE	YES
14	OAK	QUERCUS VIRGINIANA	24		PRESERVE	YES
15	OAK	QUERCUS VIRGINIANA	24		PRESERVE	YES
16	OAK	QUERCUS VIRGINIANA	15		PRESERVE	NO
17	OAK	QUERCUS VIRGINIANA	28		PRESERVE	YES
18	OAK	QUERCUS VIRGINIANA	20		PRESERVE	YES
19	OAK	QUERCUS VIRGINIANA	18		PRESERVE	YES
20	OAK	QUERCUS VIRGINIANA	24		PRESERVE	YES
21	OAK	QUERCUS VIRGINIANA	36		PRESERVE	YES
22	OAK	QUERCUS VIRGINIANA	18		PRESERVE	YES
23	OAK	QUERCUS VIRGINIANA	18		PRESERVE	YES
24	OAK	QUERCUS VIRGINIANA	12		PRESERVE	NO
25	OAK	QUERCUS VIRGINIANA	24		PRESERVE	YES
26	OAK	QUERCUS VIRGINIANA	24		PRESERVE	YES
27	OAK	QUERCUS VIRGINIANA	24		PRESERVE	YES
28	OAK	QUERCUS VIRGINIANA	30		PRESERVE	YES
29	OAK	QUERCUS VIRGINIANA	15		PRESERVE	NO
30	OAK	QUERCUS VIRGINIANA	24		PRESERVE	YES

TREE ID #	COMMON NAME	BOTANICAL NAME	DBH (INCHES)	CANOPY DIAMETER	DISPOSITIION	SPECIMEN
31	OAK	QUERCUS VIRGINIANA	24		PRESERVE	YES
32	OAK	QUERCUS VIRGINIANA	24		PRESERVE	YES
33	OAK	QUERCUS VIRGINIANA	20		PRESERVE	YES
34	OAK	QUERCUS VIRGINIANA	24		PRESERVE	YES
35	OAK	QUERCUS VIRGINIANA	24		PRESERVE	YES
36	OAK	QUERCUS VIRGINIANA	42		PRESERVE	YES
37	PALM	UNKNOWN	4		PRESERVE	NO
38	PALM	UNKNOWN	4		PRESERVE	NO
39	UNKNOWN	UNKNOWN	10		PRESERVE	NO
40	UNKNOWN	UNKNOWN	34		PRESERVE	YES
41	OAK	QUERCUS VIRGINIANA	24		PRESERVE	YES
42	OAK	QUERCUS VIRGINIANA	18		PRESERVE	YES
43	BLACK OLIVE	BUCIDA BUCERAS	12		PRESERVE	NO
44	BLACK OLIVE	BUCIDA BUCERAS	10		PRESERVE	NO
45	OAK	QUERCUS VIRGINIANA	24		PRESERVE	YES
46	OAK	QUERCUS VIRGINIANA	18		PRESERVE	YES
47	OAK	QUERCUS VIRGINIANA	36		PRESERVE	YES
48	OAK	QUERCUS VIRGINIANA	18		PRESERVE	YES
49	OAK	QUERCUS VIRGINIANA	24		PRESERVE	YES
50	OAK	QUERCUS VIRGINIANA	15		PRESERVE	NO
51	OAK	QUERCUS VIRGINIANA	24		PRESERVE	YES
52	OAK	QUERCUS VIRGINIANA	24		PRESERVE	YES
53	MAHOGANY	SWIETENIA MAHOGANI	10		PRESERVE	YES
54	MAHOGANY	SWIETENIA MAHOGANI	18		PRESERVE	YES
55	OAK	QUERCUS VIRGINIANA	15		PRESERVE	NO
56	OAK	QUERCUS VIRGINIANA	15		PRESERVE	NO
57	OAK	QUERCUS VIRGINIANA	15		PRESERVE	NO
58	UNKNOWN	UNKNOWN	15		PRESERVE	NO
59	OAK	QUERCUS VIRGINIANA	15		PRESERVE	NO
60	OAK	QUERCUS VIRGINIANA	28		PRESERVE	YES

TREE ID #	COMMON NAME	BOTANICAL NAME	DBH (INCHES)	CANOPY DIAMETER	DISPOSITIION	SPECIMEN
61	OAK	QUERCUS VIRGINIANA	30		PRESERVE	YES
62	OAK	QUERCUS VIRGINIANA	20		PRESERVE	YES
63	BANYAN	FICUS BENGHALENSIS	18		PRESERVE	YES
64	OAK	QUERCUS VIRGINIANA	18		PRESERVE	YES
65	OAK	QUERCUS VIRGINIANA	12		PRESERVE	NO
66	OAK	QUERCUS VIRGINIANA	12		PRESERVE	NO
67	OAK	QUERCUS VIRGINIANA	15		PRESERVE	NO
68	OAK	QUERCUS VIRGINIANA	18		PRESERVE	YES
69	OAK	QUERCUS VIRGINIANA	20		PRESERVE	YES
70	OAK	QUERCUS VIRGINIANA	24		PRESERVE	YES
71	OAK	QUERCUS VIRGINIANA	20		PRESERVE	YES
72	OAK	QUERCUS VIRGINIANA	15		PRESERVE	NO
73	OAK	QUERCUS VIRGINIANA	18		PRESERVE	YES
74	OAK	QUERCUS VIRGINIANA	12		PRESERVE	NO
75	OAK	QUERCUS VIRGINIANA	18		PRESERVE	YES
76	OAK	QUERCUS VIRGINIANA	24		PRESERVE	YES
77	OAK	QUERCUS VIRGINIANA	18		PRESERVE	YES
78	BANYAN	FICUS BENGHALENSIS	72		PRESERVE	YES
79	MAHOGANY	SWIETENIA MAHOGANI	24		PRESERVE	YES
80	BANYAN	FICUS BENGHALENSIS	36		PRESERVE	YES
81	UNKNOWN	UNKNOWN	15		PRESERVE	NO
82	UNKNOWN	UNKNOWN	15		PRESERVE	NO
83	OAK	QUERCUS VIRGINIANA	18		PRESERVE	YES

NOTES:

1. ALL TREES TO BE PRESERVED IN PLACE UNLESS OTHERWISE NOTED ON PLAN.
2. TREES SHOWN IN EXISTING TREE INVENTORY CHART WERE RECORDED BY GIBBS LAND SURVEYORS. 2131 HOLLYWOOD BOULEVARD, SUITE 204. HOLLYWOOD FL, 33020 IN JUNE OF 2018. INFORMATION SHOWN IN THE CHART ABOVE WAS DERIVED FROM THE SURVEY INFORMATION.

GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET

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DRAWN BY: AA
CHECKER: JLA
SCALE: AS SHOWN

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The Seminole Tribe of Florida

SEMINOLE VILLAGE
TREE PRESERVATION PLAN

Date: 03/14/2019
Sheet: 14 of 22
Drawing: TDP-1
PROJECT NO. 300.001

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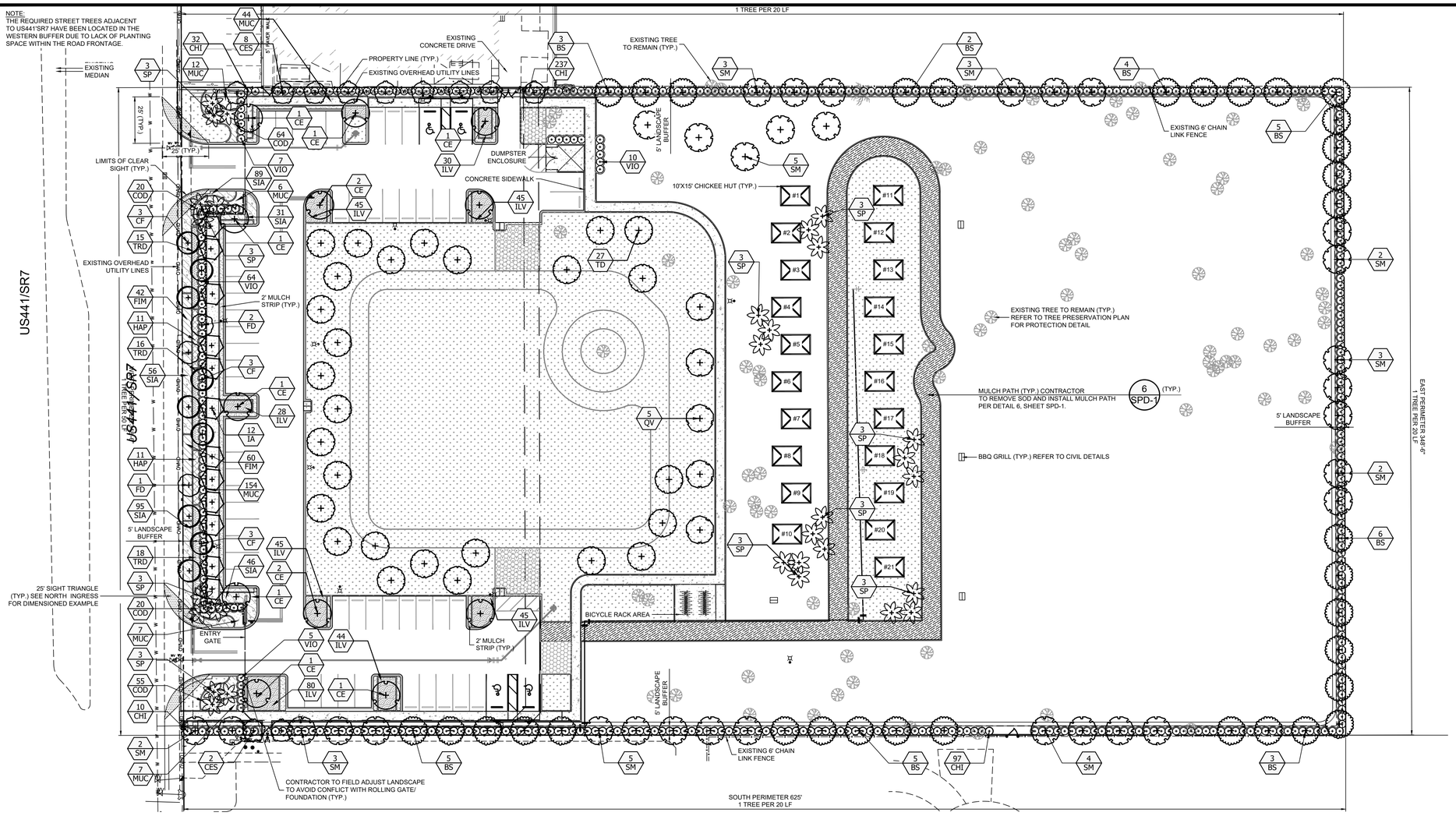
NOTE:
THE REQUIRED STREET TREES ADJACENT TO US441/SR7 HAVE BEEN LOCATED IN THE WESTERN BUFFER DUE TO LACK OF PLANTING SPACE WITHIN THE ROAD FRONTAGE.



PLANT LEGEND

TREES	CODE	COMMON NAME	BOTANICAL NAME	REMARKS
	BS	Gumbo Limbo	Bursera simaruba	
	CF	Gloden Shower	Cassia fistula	
	CE	Buttonwood	Conocarpus erectus	
	CES	Silver Button Wood	Conocarpus erectus sericeus	4' Clear Trunk
	FD	Japanese Fern Tree	Filicium decipiens	
	IA	East Palatka Holly	Ilex x attenuata `East Palatka`	FULL TO BASE
	SM	West Indian Mahogany	Swietenia mahagoni	

PALM TREES	CODE	COMMON NAME	BOTANICAL NAME	REMARKS
	SP	Cabbage Palmetto	Sabal palmetto	Staggered Heights

SHRUBS	CODE	COMMON NAME	BOTANICAL NAME	REMARKS
	CHI	Green Cocoplum	Chrysobalanus icaco	
	VIO	Walter`s Viburnum	Viburnum obovatum	

SHRUB AREAS	CODE	COMMON NAME	BOTANICAL NAME	REMARKS
	COD	Bravo Croton	Codiaeum variegatum `Bravo`	
	FIM	Green Island Ficus	Ficus microcarpa `Green Island`	
	HAP	Fire Bush	Hamelia patens	
	ILV	Dwarf Schillings Holly	Ilex vomitoria `Schillings Dwarf`	
	MUC	Muhly Grass	Muhkenbergia capillaris	
	SIA	Blue Eyed Grass	Sisyrinchium angustifolium	
	TRD	Fakahatchee Grass	Tripsacum dactyloides	

GROUND COVERS	CODE	COMMON NAME	BOTANICAL NAME	REMARKS
	MULCH		MULCH	
	SOD2	Bahia Grass	Paspalum notatum `Argentine`	SOD2
	SOD	St. Augustine Grass	Stenotaphrum secundatum	

LIMITS OF CLEAR SIGHT

SEE SHEET LNP-2 FOR PLANT SCHEDULE

LANDSCAPE TABULATIONS

CODE APPLICATION	#	REQUIRED	PROVIDED	EXISTING	RELOCATED	PROPOSED
Terminal Islands						
190 SF OF PERVIOUS AREA PER ISLAND	8	1,520	1,520			
1 TREE PER ISLAND	8	8	8	0	0	0
Paved Vehicular Use Area						
25% OF THE VUA SHALL BE LANDSCAPED	27,588	6,897	6,897			
Native Plant Requirements						
60% NATIVE TREES	0	60%	92% TREES & 100% PALMS			
50% NATIVE SHRUBS	0	50%	91%			
Open Space/Pervious Area						
1 TREE PER 1,000 SF OF PERVIOUS PROPERTY (LESS OTHER REQUIREMENTS / PLANTNG AREAS)	106,788	106.8	125	69	0	56
Street Trees						
1 TREE/50 LF OF STREET FRONTAGE	348.5	7	7	0	0	7
Perimeter/Buffer Requirements						
NORTH PERIMETER 1 TREE/20 LF	625	32	32	8	0	24
CONTINUOUS VISUAL BARRIER		4' HEDGE	4' HEDGE			
SOUTH PERIMETER 1 TREE/20 LF	625	32	32	3	0	29
CONTINUOUS VISUAL BARRIER		4' HEDGE	4' HEDGE			
WEST PERIMETER (LESS ACCESSWAYS) 1 TREE/50 LF	348.5	7	7	0	0	7
CONTINUOUS VISUAL BARRIER		4' HEDGE	4' HEDGE			
EAST PERIMETER/1 TREE/20 LF	348.5	18	18			18
CONTINUOUS VISUAL BARRIER		4' HEDGE	4' HEDGE			
TOTAL TREES		204	222	80	0	134

GENERAL NOTES

1. THE CITY LANDSCAPE REVIEWER WILL BE NOTIFIED PRIOR TO ANY CHANGES IN APPROVED LANDSCAPE MATERIALS.
2. PLANT MATERIAL WILL NOT BE PLANTED INTO ROOT BALLS OF TREES AND PALMS.
3. ALL PLANT MATERIAL TO BE FLORIDA GRADE #1 OR BETTER.
4. A PRE-CONSTRUCTION INSPECTION FOR THOSE TREES TO REMAIN ON SITE MUST BE SCHEDULED PRIOR TO ISSUANCE OF BUILDING PERMIT. TREES WHICH ARE TO BE PRESERVED ON A SITE SHALL BE PROTECTED FROM CONSTRUCTION DAMAGE BY BARRICADING ROUND THE OUTER EDGE OF THE DRIP LINE WITH A DURABLE PROTECTIVE FENCE. THIS FENCING MUST BE ERECTED AFTER ISSUANCE OF THE TREE REMOVAL/RELOCATION PERMIT AND PRIOR TO ANY CONSTRUCTION ACTIVITY. PRIOR TO ANY LAND CLEARING ACTIVITY THE CITY MUST INSPECT TREE PROTECTION. REFER TO TREE PRESERVATION PLAN DETAIL 1, SHEET TDP-1.
5. THE LANDSCAPE IN AREAS WHERE LANDSCAPE AND PEDESTRIAN TRAFFIC INTERFACE SHALL BE MAINTAINED WITH A CLEAR AREA BETWEEN FINISH GRADE AND 7'.
6. NO TREE REMOVALS WITHOUT A TREE REMOVAL SUB-PERMIT. SUPPLEMENTAL ARBORIST REPORT MIGHT BE REQUIRED AS NEEDED TO APPROVE ANY TREE REMOVAL PERMIT. APPLICANT TO SUBMIT A COMPLETE BROWARD COUNTY UNIFORM BUILDING APPLICATION AND SEPARATE APPLICATION FOR TREE REMOVAL AND PLANTING SUB-PERMIT. SUBMIT APPROVED AND SIGNED TOTAL FINAL LANDSCAPE INSTALLATION ESTIMATE FROM LANDSCAPE CONTRACTOR/INSTALLER FOR TWO SEPARATE SUB-PERMITS IN SEPARATE TO COMPLY WITH EXISTING PENDING CITY CODE TREE PLANTING AND REMOVAL REQUIREMENTS.

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(IN FEET)
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CHEN•MOORE &ASSOCIATES

The Seminole Tribe of Florida

SEMINOLE VILLAGE
LANDSCAPE PLAN

Date: 03/14/2019
Sheet: 15 of 22
Drawing: LNP-1
PROJECT NO. 300.001

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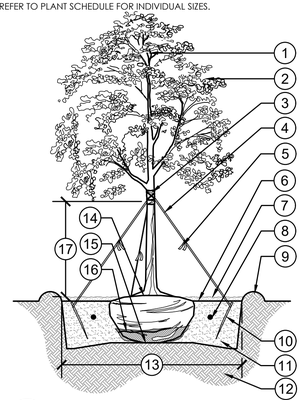
CALIPER MEASUREMENTS NOTES:
1. CALIPER MEASUREMENT IS 6" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER OR LESS.
2. CALIPER MEASUREMENT IS12" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER GREATER.

REFER TO PLANT SCHEDULE FOR INDIVIDUAL SIZES.



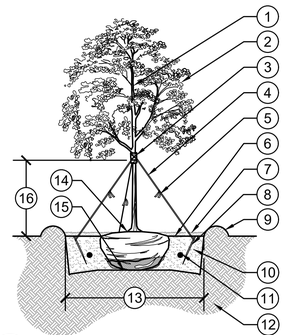
1. DO NOT PRUNE CENTRAL LEADER
2. PRUNE DAMAGED OR DEAD WOOD IMMEDIATELY PRIOR TO PLANTING USING ACCEPTABLE NURSERY PRACTICES OR AS DIRECTED BY THE LANDSCAPE ARCHITECT
3. PROTECT TRUNK WITH 3 LAYERS OF BURLAP MINIMUM
4. 1" WIDE MIN. NYLON STRAPPING AT EQUAL SPACING (3 PER TREE) GUY WIRES SHALL NOT TO BE USED
5. FLUORESCENT MARKING FLAG
6. FINISH GRADE
7. 3" LAYER OF SPECIFIED MULCH: DO NOT INSTALL WITHIN 3" OF TREE TRUNK
8. FERTILIZER TABLET IF APPLICABLE
9. CONSTRUCT TEMPORARY 3" WATERING BASIN
10. 2"X4"X8" STAKE: SET 2" BELOW FINISH GRADE
11. SPECIFIED SOIL MIX
12. EXISTING SOIL
13. 2X DIAMETER OF THE ROOTBALL
14. SET CROWN OF ROOT BALL SLIGHTLY ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL. TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION
15. SET ROOTBALL ON UNDISTURBED SOIL
16. REMOVE TOP 2/3 OF BURLAP/WIRE BASKET FROM ROOTBALL
17. CLEAR TRUNK: REFER TO PLANT SCHEDULE

1 LARGE TREE PLANTING: 2" CALIPER AND GREATER

1/4" = 1'-0" 329343-17

CALIPER MEASUREMENTS NOTES:
1. CALIPER MEASUREMENT IS 6" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER OR LESS.
2. CALIPER MEASUREMENT IS12" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER GREATER.

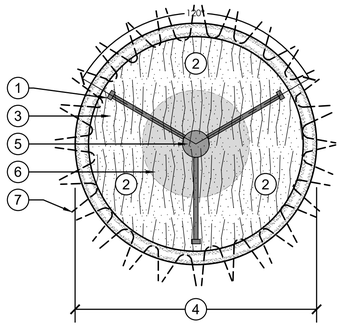
REFER TO PLANT SCHEDULE FOR INDIVIDUAL SIZES.



1. DO NOT PRUNE CENTRAL LEADER
2. PRUNE DAMAGED OR DEAD WOOD IMMEDIATELY PRIOR TO PLANTING USING ACCEPTABLE NURSERY PRACTICES OR AS DIRECTED BY THE LANDSCAPE ARCHITECT
3. PROTECT TRUNK WITH 3 LAYERS OF BURLAP MINIMUM
4. 1" WIDE MIN. NYLON STRAPPING AT EQUAL SPACING (3 PER TREE) GUY WIRES SHALL NOT TO BE USED
5. 1/2"X2' FLUORESCENT MARKER
6. FINISH GRADE
7. 3" LAYER OF SPECIFIED MULCH: DO NOT INSTALL WITHIN 3" OF TREE TRUNK
8. 2"X4"X8" STAKE: SET 2" BELOW FINISH GRADE
9. CONSTRUCT TEMPORARY 3" WATERING BASIN
10. BACKFILL WITH SPECIFIED SOIL MIX
11. FERTILIZER TABLET IF APPLICABLE
12. EXISTING SOIL
13. 2X DIAMETER OF THE ROOTBALL
14. SET CROWN OF ROOT BALL SLIGHTLY ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL: TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION
15. SET ROOTBALL ON UNDISTURBED SOIL
16. CLEAR TRUNK: REFER TO PLANT SCHEDULE

2 SMALL TREE PLANTING: LESS THAN 2" CALIPER

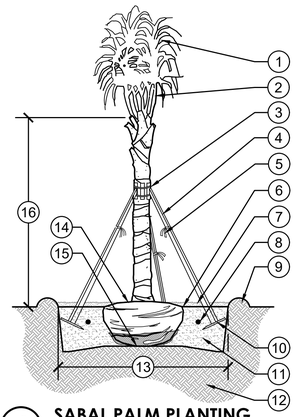
1/4" = 1'-0" 329343-18



1. 2"X4" WOOD BRACE AT EQUAL SPACING (3 PER TREE)
2. 3" LAYER OF SPECIFIED MULCH: DO NOT INSTALL WITHIN 3" OF TREE TRUNK
3. CONSTRUCT TEMPORARY 3" WATERING BASIN
4. 2X DIAMETER OF THE ROOTBALL.
5. TREE TRUNK
6. ROOTBALL
7. TREE CANOPY

3 LARGE TREE STAKING DETAIL

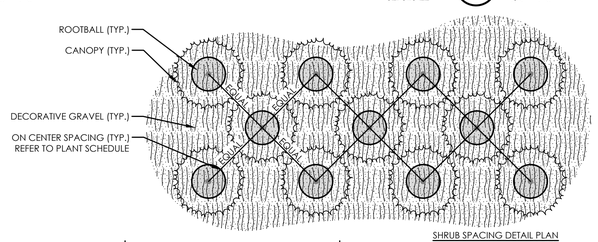
3/8" = 1'-0" 329343-22



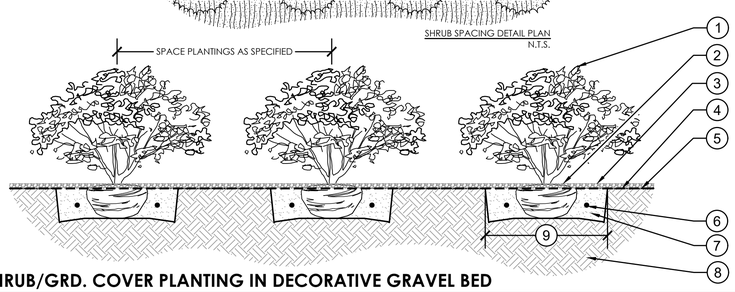
1. DO NOT HURRICANE CUT FRONDS
2. UNTIE FRONDS PRIOR TO INSPECTION
3. METAL STRAPS SECURING 2"x4" WOOD BATTENS. MIN. 5 LAYERS BURLAP. TOE NAIL BRACES TO 2"X4" WOOD BATTENS: DO NOT NAIL STAKES DIRECTLY TO TRUNK
4. 2"X4" WOOD BRACE AT EQUAL SPACING (3 PER TREE)
5. 1/2"x2' FLUORESCENT MARKER
6. FINISH GRADE
7. 3" LAYER OF SPECIFIED MULCH: DO NOT INSTALL WITHIN 3" OF TREE TRUNK
8. FERTILIZER TABLET IF APPLICABLE
9. CONSTRUCT TEMPORARY 3" WATERING BASIN
10. 2"X4"X8" STAKE: SET 2" BELOW FINISH GRADE
11. BACKFILL WITH SPECIFIED SOIL MIX
12. EXISTING SOIL
13. 2X DIAMETER OF THE ROOTBALL
14. SET CROWN OF ROOT BALL 0'-2" ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL: TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION
15. SET ROOTBALL ON UNDISTURBED SOIL
16. CLEAR TRUNK: REFER TO PLANT SCHEDULE

4 SABAL PALM PLANTING

1/4" = 1'-0" 329343-21



SHRUB SPACING DETAIL PLAN
N.T.S.



1. PLANT MATERIAL SHALL NOT BE PRUNED PRIOR TO INSTALLATION: AFTER PLANTS HAVE BEEN INSTALLED, EACH PLANT SHALL BE PRUNED FOR UNIFORMITY.
2. SET CROWN OF ROOT SLIGHTLY ABOVE SURROUNDING FINISH GRADE; TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION.
3. 3" LAYER OF SPECIFIED DECORATIVE GRAVEL. REFER TO PLAN SCHEDULE.
4. WEED BARRIER/LANDSCAPE FABRIC.
5. FINISH GRADE
6. FERTILIZER TABLET IF APPLICABLE.
7. BACKFILL WITH SPECIFIED SOIL MIX.
8. EXISTING SOIL.
9. 2X DIAMETER OF THE ROOTBALL.

5 SHRUB/GRD. COVER PLANTING IN DECORATIVE GRAVEL BED

1" = 1'-0" 329333-12

PLANT SCHEDULE

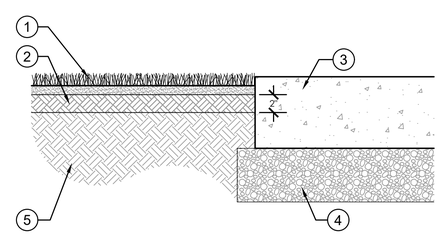
TREES	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE	NATIVE		REMARKS
	BS	33	Gumbo Limbo	Bursera simaruba	B & B	12` - 14` HT, 6` SPRD, 3" CAL	Yes		
	CF	9	Golden Shower	Cassia fistula	B & B	12` HT, 4` SPR, 2.5" CAL MIN	No		
	CE	12	Buttonwood	Conocarpus erectus	B & B	14` - 16` HT, 6` SPRD	Yes		
	CES	11	Silver Button Wood	Conocarpus erectus sericeus	B & B	12` HT, 6` SPRD, 2" DBH	Yes		4` Clear Trunk
	FD	3	Japanese Fern Tree	Filicium decipiens	B & B	12` HT, 6` SPR, 3" DBH	No		
	IA	12	East Palatka Holly	Ilex x attenuata `East Palatka`	B & B	12` HT, 5` SPRD, 3" DBH	Yes		FULL TO BASE
	QV	5	Southern Live Oak	Quercus virginiana	B & B	12` HT, 6` SPRD, 3" CAL	Yes		
	SM	32	West Indian Mahogany	Swietenia mahagoni	B & B	12` - 14` HT, 6` SPRD, 3" CAL	Yes		
	TD	27	Bald Cypress	Taxodium distichum	B & B	12` HT, 6` SPR, 3" CAL	Yes		
PALM TREES	**CODE**	**QTY**	**COMMON NAME**	**BOTANICAL NAME**	**CONT**	**SIZE**	**NATIVE**		**REMARKS**
	SP	30	Cabbage Palmetto	Sabal palmetto	B & B	12`-18` C.T.	Yes		Staggered Heights
SHRUBS	**CODE**	**QTY**	**COMMON NAME**	**BOTANICAL NAME**	**CONT**	**SIZE**	**NATIVE**	**SPACING**	**REMARKS**
	CHI	376	Green Cocoplum	Chrysobalanus icaco	See Size	48"x48"	Yes	48" o.c.	
	VIO	86	Walter`s Viburnum	Viburnum obovatum	See Size	48"x48"	Yes	48" o.c.	
SHRUB AREAS	**CODE**	**QTY**	**COMMON NAME**	**BOTANICAL NAME**	**CONT**	**SIZE**	**NATIVE**	**SPACING**	**REMARKS**
	COD	159	Bravo Croton	Codiaeum variegatum `Bravo`	See Size	18"x18"	No	24" o.c.	
	FIM	102	Green Island Ficus	Ficus microcarpa `Green Island`	See Size	18"x18"	No	24" o.c.	
	HAP	22	Fire Bush	Hamelia patens	See Size	36"x36"	Yes	36" o.c.	
	ILV	376	Dwarf Schillings Holly	Ilex vomitoria `Schillings Dwarf`	See Size	14"x14"	Yes	24" o.c.	
	MUC	230	Muhly Grass	Muhkenbergia capillaris	See Size	18"x18"	Yes	36" o.c.	
	SIA	317	Blue Eyed Grass	Sisyrinchium angustifolium	See Size	12"x12"	Yes	24" o.c.	
	TRD	49	Fakahatchee Grass	Tripsacum dactyloides	See Size	24"x24"	Yes	36" o.c.	
GROUND COVERS	**CODE**	**QTY**	**COMMON NAME**	**BOTANICAL NAME**	**CONT**	**SIZE**	**NATIVE**	**REMARKS**	
	MULCH	979 sf		MULCH	mulch				
	SOD2	154,848 sf	Bahia Grass	Paspalum notatum `Argentine`	SOD	FULL	N/A	SOD2	
	SOD	667 sf	St. Augustine Grass	Stenotaphrum secundatum	SOD	FULL	N/A		

TREES 92% NATIVE

PALMS 100% NATIVE

SHRUBS 91% NATIVE

1. SOD (AS SPECIFIED)
2. PLANTING MIX: 80% SILICA SAND, 20% ORGANIC
3. SIDEWALK OR CURB
4. SUB-BASE
5. NATIVE SOIL



6 SOD PLANTING

1 1/2" = 1'-0" 329333-03

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DRAWN BY: AA
CHECKER: JLA
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CHEN•MOORE &ASSOCIATES

The Seminole Tribe of Florida

SEMINOLE VILLAGE

LANDSCAPE DETAILS

Date: 03/14/2019
Sheet: 16 of 22
Drawing: LNP-2
PROJECT NO. 300.001

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LANDSCAPE SPECIFICATIONS

1. GENERAL
   - 1.1. WORK PERFORMED SHALL COMPLY WITH THE FOLLOWING:
     - 1.1.1. THESE GENERAL NOTES, CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.
     - 1.1.2. ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES, ORDINANCES AND REGULATIONS.
   - 1.2. SOURCE OF BASE INFORMATION PROVIDED IS ASSUMED TO BE CORRECT. IF SITE DISCREPANCIES ARE PRESENT, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY. IF CONTRACTOR CONTINUES WORK WITHOUT THE PROPER NOTIFICATION, CONTRACTOR DOES SO AT HIS OWN RISK.
   - 1.3. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, SUPERVISION, AND EQUIPMENT REQUIRED FOR THE WORK AS SHOWN ON THE CONSTRUCTION DOCUMENTS DESCRIBED HEREIN.
   - 1.4. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUB-CONTRACTORS AS REQUIRED TO COMPLETE THE WORK OF THIS PROJECT.
   - 1.5. CONTRACTOR SHALL VERIFY LOCATIONS OF PERTINENT SITE IMPROVEMENTS INSTALLED UNDER OTHER CONTRACTS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT OWNER'S REPRESENTATIVE FOR INSTRUCTIONS PRIOR TO COMMENCING WORK.
   - 1.6. CONTRACTOR TO NOTIFY "SUNSHINE STATE ONE CALL OF FLORIDA, INC." AT 1-800-432-4770 TWO FULL BUSINESS DAYS PRIOR TO DIGGING FOR UNDERGROUND UTILITY LOCATIONS.
   - 1.7. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL UTILITY LOCATIONS AND INSTALLING FACILITIES SO AS TO NOT CONFLICT. THE LOCATION OF EXISTING UTILITIES OR SITE FEATURES AS SHOWN ON THE PLANS MAY VARY IN RELATION TO ACTUAL EXISTING CONDITIONS. ANY DIFFERING SITE CONDITIONS FROM THAT WHICH IS REPRESENTED HEREON, WHETHER ABOVE, ON OR BELOW THE SURFACE OF THE GROUND, SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT AND THE OWNER IN WRITING. NO CLAIM FOR EXPENSES INCURRED BY THE CONTRACTOR DUE TO DIFFERING SITE CONDITIONS WILL BE ALLOWED IF THE CONTRACTOR FAILS TO PROVIDE THE REQUIRED WRITTEN NOTIFICATION OF SUCH CONDITIONS FOR REVIEW BY THE LANDSCAPE ARCHITECT AND THE OWNER.
   - 1.8. CONTRACTOR SHALL NOTIFY ALL APPROPRIATE UTILITY COMPANIES OF PROPOSED START OF WORK IN ACCORDANCE WITH THEIR STANDARD REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, WATER, SANITARY SEWER, POWER, NATURAL GAS, TELEPHONE AND CABLE TV COMPANIES.
   - 1.9. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
   - 1.10. PERFORM EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES WITH CARE AND BY HAND, IF NECESSARY. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK AND DISRUPTION OF DAMAGE TO UTILITIES SHALL BE REPAIRED IMMEDIATELY AND AT NO EXPENSE TO THE OWNER.
   - 1.11. THE SUCCESSFUL BIDDER SHALL FURNISH TO THE OWNER A UNIT PRICE BREAKDOWN FOR ALL MATERIALS. THE OWNER MAY, AT ITS DISCRETION, ADD OR DELETE FROM THE MATERIALS UTILIZING THE UNIT PRICE BREAKDOWN SUBMITTED.
   - 1.12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND ARE IN HAND AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL ABIDE BY ALL PERMIT CONDITIONS.
2. PRE-CONSTRUCTION RESPONSIBILITY
   - 2.1. UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, ALL AFFECTED UTILITY OWNERS, THE OWNER, THE LANDSCAPE ARCHITECT, ANY OTHER PERTINENT PARTIES AND HIMSELF.
   - 2.2. CONTRACTOR SHALL PROVIDE TEMPORARY SANITARY FACILITIES ONSITE. LOCATION TO BE DETERMINED BY THE OWNER. JANITORIAL SERVICES SHALL BE PROVIDED BY CONTRACTOR THROUGHOUT THE DURATION OF PROJECT.
   - 2.3. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.
   - 2.4. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS; THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT.
   - 2.5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS FOR THE FIELD LOCATIONS AND FOR ANY TREES PROPOSED FOR RELOCATION. THIS SHALL BE DONE IN A TIMELY MANNER TO MINIMIZE IMPACT ON CONSTRUCTION SCHEDULE. ANY DELAY CAUSED BY THE CONTRACTOR BY THE RELOCATION OF TREES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
   - 2.6. CONTRACTOR SHALL VERIFY LIMITS OF CONSTRUCTION AS NOTED ON THE PLANS. ANY WORK PERFORMED OUTSIDE OF THE AGREED UPON LIMITS OF CONSTRUCTION SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR.
3. SITE DEMOLITION
   - 3.1. ITEMS SHALL REMAIN UNLESS OTHERWISE NOTED ON THE PLAN(S). REMOVE DESIGNATED ITEMS SHOWN ON THE PLAN TO THE FULL DEPTH OF THEIR CONSTRUCTION UNLESS OTHERWISE NOTED.
   - 3.2. ALL HARDSCAPE DESIGNATED FOR REMOVAL SHALL BE SAW CUT, LEAVING UNIFORM EDGES TO THE GREATEST EXTENT POSSIBLE. MATERIAL EDGES TO REMAIN SHALL BE SHORED UP AND PROTECTED DURING CONSTRUCTION TO PRESERVE EDGE INTACT. REPAIRS TO DAMAGED EDGES SHALL BE REPAIRED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
   - 3.3. NO EXISTING MATERIAL SHALL BE USED IN NEW CONSTRUCTION UNLESS NOTED ON THE PLANS OR APPROVED DURING THE SHOP DRAWING APPROVAL PROCESS.
   - 3.4. SALVAGE EXISTING MATERIALS AS INDICATED ON THE PLANS. SALVAGED MATERIALS SHALL BE HANDLED WITH CARE AND STORED ON-SITE OR AS DIRECTED BY OWNER. CLEAN ALL DEBRIS AND CONSTRUCTION MATERIAL FROM SALVAGED ITEMS; REUSE AS DIRECTED BY OWNER'S REPRESENTATIVE.
   - 3.5. REMOVE DEMOLISHED MATERIALS FROM SITE AND DISPOSE OF AS REQUIRED BY LOCAL, STATE OR FEDERAL LAWS.
   - 3.6. CONTRACTOR SHALL PROTECT ADJACENT WATER BODIES, COASTAL DUNE SYSTEMS AND PROPERTIES FROM DAMAGE BY SEDIMENTATION OR OTHER POTENTIAL CONSTRUCTION RELATED CAUSES.
   - 3.7. ALL IRRIGATION IN DEMOLITION AREA TO BE CAPPED AND ADJUSTED AS NECESSARY TO ENSURE OVERALL SYSTEM IS NOT AFFECTED.
4. TREE PRESERVATION
   - 4.1. ALL TREES TO BE PRESERVED AS INDICATED ON THE TREE DISPOSITION PLAN SHALL BE PROTECTED BY A TREE PROTECTION BARRICADE, UNLESS OTHERWISE NOTED ON PLAN.
   - 4.2. TREE PROTECTION BARRICADES SHALL BE PROVIDED BY LANDSCAPE CONTRACTOR AROUND THE DRIP LINE OF EXISTING TREES TO BE PRESERVED IN PLACE, AS SHOWN ON PLAN. PRESERVATION BARRICADES SHALL BE LEFT IN PLACE THROUGHOUT DURING ALL PHASES OF CONSTRUCTION.
   - 4.3. PRIOR TO ANY CONSTRUCTION A TREE PROTECTION BARRICADE INSPECTION SHALL BE CONDUCTED BY THE LANDSCAPE ARCHITECT, OWNER OR GOVERNING MUNICIPALITY. REFER TO PLANS FOR TREE PRESERVATION BARRICADE FENCING DETAIL.
   - 4.4. IF EXCAVATION IN THE VICINITY OF A PROTECTED TREE IS REQUIRED, CONTRACTOR SHALL ROOT PRUNE TREES, UNDER THE SUPERVISION OF A CERTIFIED ARBORIST IN ACCORDANCE TO THE FOLLOWING CONDITIONS:
     - 4.4.1. ROOT PRUNE TREES A MINIMUM OF EIGHT (8) WEEKS PRIOR TO CONSTRUCTION. PRIOR TO ROOT PRUNING, THOROUGHLY WATER THE ROOT ZONE WITH AT LEAST 2 TO 3 INCHES OF WATER FOR 2 TO 3 DAYS PRIOR TO ROOT PRUNING. SEE BELOW FOR RELOCATION TIMELINE.
       1. PROVIDE TEMPORARY IRRIGATION FOR EACH TREE THROUGHOUT THE DURATION OF CONSTRUCTION.
       2. ROOT PRUNE TREES, SHOWN ON PLAN IN AREAS WHERE ROOTS WILL CONFLICT WITH CONSTRUCTION ACTIVITY. PRUNING OF ROOTS SHOULD BE DONE IN A MANNER TO PRESERVE THE GREATEST AMOUNT OF THE ROOT BASE AS POSSIBLE.
       3. BACKFILL TRENCH WITH PLANTING SOIL.
       4. FERTILIZE WITHIN THE ROOT ZONE (SEE BELOW).
     - 4.4.2. ROOT PRUNING SHALL BE ACCOMPLISHED BY DIGGING A TRENCH AROUND THE TREE IN AREAS WHERE PROPOSED SITE WORK WILL BE PERFORMED. TRENCHING SHALL BE AT A MINIMUM OF 24" DEEP. ROOT PRUNE ONLY WITH A MECHANICAL ROOT-PRUNING SAW OR A TRENCHER WITH A MAXIMUM TRENCH WIDTH OF 8".
     - 4.4.3. ALL EXPOSED ROOTS SHALL BE CUT OFF SMOOTHLY, WITH SHARP INSTRUMENTS. BACKFILL TRENCHES WITH SOIL CONSISTING OF 30% SILICA SAND AND 70% MUCK. WATER THOROUGHLY AFTER ROOT PRUNING, AND ONCE WEEKLY DURING THE ROOT REGENERATION PERIOD, WITH A SOLUBLE FERTILIZER THAT HAS A 20.20.20 ANALYSIS AT MANUFACTURER'S RECOMMENDED RATE.
   - 4.5. THE CONTRACTOR SHALL FIELD STAKE THE LIMIT OF ROOT PRUNING. LIMITS OF ROOT PRUNING SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO ANY EXCAVATION. DO NOT ROOT PRUNE FOR IRRIGATION OR ELECTRICAL LINES WITHIN DRIP LINES OF EXISTING TREES. COORDINATE ALL TRENCHING REQUIRED FOR UTILITY WORK WITH THE LANDSCAPE PLANS.
   - 4.6. ROOT PRUNING SHALL OCCUR IN ACCORDANCE WITH TREE RELOCATION NOTES AS NOTED ON PLANS.
5. PLANTING SOIL
   - 5.1. ALL TREES SHALL BE PLANTED WITH A MINIMUM OF 12" TOPSOIL AROUND AND BENEATH THE ROOTBALL.
   - 5.2. ALL TREES SHALL BE PLANTED WITH A MINIMUM OF 6" TOPSOIL AROUND AND BENEATH THE ROOTBALL.
   - 5.3. MINIMUM TOPSOIL SHALL BE 2" FOR SODDED GRASS AREAS.
   - 5.4. PLANTING SOIL MIX SHALL BE A WEED FREE MIX AS FOLLOWS:
     - 5.4.1. DICOT TREES & SHRUBS: 50% SAND, 40% MUCK & 10% PEAT
     - 5.4.2. MONOCOT PALMS: 70% SAND & 30% MUCK
     - 5.4.3. TURF: 80% SAND, 10% PEAT & 10% MUCK
6. LANDSCAPE PLANTING
   - 6.1. THIS PLAN HAS BEEN DESIGNED TO MEET OR EXCEED ALL APPLICABLE CODES.
   - 6.2. THE PLANTING PLAN SHALL BE INSTALLED IN COMPLIANCE WITH ALL EXISTING CODES AND APPLICABLE DEED RESTRICTIONS.
   - 6.3. PLANT MATERIAL: ALL PLANT MATERIAL SHALL BE FLORIDA #1 OR BETTER AS ESTABLISHED BY "GRADES AND STANDARDS FOR NURSERY PLANTS" OF THE STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE.
   - 6.4. ALL PLANT MATERIAL SHALL BE TRUE TO THE BOTANICAL NAME, GENUS, SPECIES AND/OR HYBRID DESIGNATION.
   - 6.5. ALL TREES, SHRUBS AND GROUNDCOVERS SHALL BE OF THE SIZES (HEIGHT & SPREAD) AS SPECIFIED IN THE PLANT LIST. CONTAINER SIZE IS FOR REFERENCE PURPOSES ONLY. ALL PLANT MATERIAL SHALL MEET OR EXCEED THE MINIMUM SIZES AT INSTALLATION, AS SPECIFIED IN THE PLANT LIST.
   - 6.6. QUANTITIES LISTED ON THE PLANT LIST ARE FOR ESTIMATING PURPOSES. CONTRACTOR SHALL VERIFY ALL QUANTITIES. MULCH, TOPSOIL, FERTILIZER, ETC. SHALL BE INCLUDED IN THE UNIT COST OF THE PLANTS.
   - 6.7. WHERE THERE IS A DISCREPANCY EITHER IN QUANTITIES, PLANT NAMES, SIZES OR SPECIFICATIONS BETWEEN THE PLAN OR PLANT LIST, THE PLAN TAKES PRECEDENCE.
   - 6.8. ALL SUBSTITUTIONS AND CHANGES SHALL BE APPROVED IN WRITING PRIOR TO INSTALLATION. ANY DISCREPANCIES BETWEEN PLANS, SITE AND SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT, THE OWNER AND/OR GOVERNING MUNICIPALITY.
   - 6.9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FINAL GRADING OF ALL ASSOCIATED PLANTING AREAS.
   - 6.10. AFTER FINAL GRADE, LANDSCAPE AREAS ARE TO BE RAKED TO A DEPTH OF 6". ALL ROCK AND FOREIGN INORGANIC MATERIALS SHALL BE REMOVED AND DISPOSED OF PROPERLY OFF-SITE.
   - 6.11. ALL PLANTING HOLES TO BE HAND DUG EXCEPT WHERE MACHINE DUG HOLES WILL NOT ADVERSELY AFFECT EXISTING TREES, DAMAGE UTILITIES OR OTHER IMPROVEMENTS.
   - 6.12. ALL PLANTING BEDS IN OPEN AREAS AND AROUND BUILDING FOUNDATIONS SHALL BE EXCAVATED TO A DEPTH OF TWENTY-FOUR INCHES (24") AND BACK FILLED WITH SOIL MIX AS SPECIFIED IN SECTION 5.00. PLANTING BED SHALL BE FREE FROM ROCK, CONSTRUCTION DEBRIS OR OTHER EXTRANEOUS MATERIAL.
   - 6.13. ALL PLANTING BEDS IN MEDIANS, HARDSCAPE AREAS OR AREAS ENCOMPASSED BY IMPERVIOUS MATERIAL SHALL BE EXCAVATED TO A DEPTH OF THIRTY-SIX INCHES (36") OR UNTIL NATIVE SOILS ENCOUNTERED TO ENSURE DRAINAGE. BACK FILL WITH SOIL MIX AS SPECIFIED IN SECTION 5.00. PLANTING BED SHALL BE FREE FROM ROCK, CONSTRUCTION DEBRIS OR OTHER EXTRANEOUS MATERIAL.
   - 6.14. EXCAVATE PLANTING PITS TO A DEPTH SO THAT THE TRUNK FLARE AND FIRST ORDER LATERAL ROOT(S) WILL BE PLANTED AT FINISH GRADE OR SLIGHTLY HIGHER. ADVENTITIOUS ROOTS ARE NOT CONSIDERED FIRST ORDER ROOTS.
   - 6.15. BURLAP, SYNTHETIC STRING, CORDS AND/OR LIFTING ROPES SHALL BE REMOVED FROM THE ROOTBALLS BEFORE ANY TREES ARE PLANTED. THE TOP 1/3RD OF BURLAP MUST BE REMOVED FROM HE TOP OF THE ROOTBALLS. THE TOP 1/3RD OF WIRE BASKETS SHALL BE COMPLETELY REMOVED AND THE BOTTOM 2/3RDS SHALL BE CUT BEFORE THE TREES ARE INSTALLED.
   - 6.16. NO PLUNGING OF ANY TREE OR PALM WILL BE ACCEPTED.
   - 6.17. NO PLANT MATERIAL WILL BE ACCEPTED SHOWING EVIDENCE OF CABLE, CHAIN MARKS, EQUIPMENT SCARS, OR OTHERWISE DAMAGED.
   - 6.18. PLANT MATERIAL WILL NOT BE ACCEPTED WHEN THE BALL OF EARTH SURROUNDING ITS ROOTS HAS BEEN CRACKED, BROKEN OR OTHERWISE DAMAGED.
   - 6.19. ALL TREES SPECIFIED AS FIELD GROWN OR B&B TREES SHALL BE ROOT-PRUNED AT THE NURSERY A MINIMUM OF (8) WEEKS PRIOR TO PLANTING.
   - 6.20. ALL PLANT MATERIAL PLANTED WITHIN THE SIGHT DISTANCE TRIANGLE AREAS SHALL BE MAINTAINED TO PROVIDE UNOBSTRUCTED CROSS-VISIBILITY AT A HORIZONTAL LEVEL BETWEEN 30 INCHES AND 8 FEET ABOVE ADJACENT STREET GRADE.
   - 6.21. NO CANOPY TREES SHALL BE PLANTED WITHIN 12 FEET OF A LIGHT POLE. NO PALM SPECIES SHALL BE PLANTED WITHIN 6 FEET OF A LIGHT POLE.
   - 6.22. GROUND COVER PLANTINGS SHALL PROVIDE NOT LESS THAN 50 PERCENT COVERAGE IMMEDIATELY UPON PLANTING AND 100 PERCENT COVERAGE WITHIN 6 MONTHS AFTER PLANTING.
   - 6.23. TREES AND PALMS SHALL BE MAINTAINED TO ALLOW FOR CLEAR PASSAGE 8' IN ALL PEDESTRIAN AREAS.
   - 6.24. ALL LANDSCAPE MATERIAL SHALL BE SETBACK A MINIMUM OF 10' FROM ANY FIRE HYDRANT.
   - 6.25. CONTRACTOR SHALL REMOVE ALL NURSERY STAKES, CONDUIT, FLAGGING AND NURSERY TAPE PRIOR TO STAKING.
   - 6.26. CONTRACTOR SHALL STAKE & GUY ALL TREES AND PALMS AT TIME OF PLANTING AS PER THE APPROPRIATE DETAIL. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND/OR REPAIR OF ALL STAKING AND GUYING DURING WARRANTY PERIOD AND REMOVAL & DISPOSAL OF STAKING AFTER ESTABLISHMENT/WARRANTY PERIOD.
   - 6.27. TREES THAT CANNOT STAND WITHOUT THE SUPPORT OF STAKES AND/OR GUYS SHALL BE REJECTED.
7. TURF GRASSES
   - 7.1. ALL AREAS NOT USED FOR BUILDINGS, VEHICULAR USE AREAS, WALKS OR PLANTING BEDS SHALL BE GRASSED. GRASSING SHALL EXTEND TO ANY ABUTTING STREET PAVEMENT EDGE AND TO THE MEAN WATERLINE OF ANY ABUTTING CANAL, LAKE OR WATERWAY. REFER TO PLANTING SCHEDULE FOR ESTIMATED QUANTITY AND SPECIES.
8. MULCH & FERTILIZER
   - 8.1. ALL PLANTING BEDS AND WATER BASINS FOR TREES SHALL BE COVERED WITH A 3" MINIMUM DEPTH OF SHREDDED FLORI-MULCH, MELALEUCA OR EUCALYPTUS MULCH GRADE 'B' OR BETTER, UNLESS OTHERWISE SPECIFIED.
   - 8.2. INDIVIDUAL TREES PLANTED IN LAWN AREAS SHALL BE MULCHED WITH A MINIMUM 3' DIAMETER MULCH RING.
   - 8.3. MULCH SHALL NOT BE INSTALLED WITHIN 3" OF TREE TUNKS.
   - 8.4. FERTILIZER MIX AS FOLLOWS:
     - 8.4.1. DICOT TREES & SHRUBS: NPK 18-4-2, SLOW RELEASE W/ MICRONUTRIENTS
     - 8.4.2. MONOCOT PALMS: NPK 8-2-12, SLOW RELEASE W/ MICRONUTRIENTS
     - 8.4.3. TURF: NPK 16-4-8, SLOW RELEASE W/ MICRONUTRIENTS
9. WATERING
   - 9.1. ALL LANDSCAPED AREAS WILL BE IRRIGATED BY AN UNDERGROUND, AUTOMATIC, RUST-FREE IRRIGATION SYSTEM PROVIDING 100% COVERAGE AND 50% SPRAY OVERLAP. THE SYSTEM SHALL BE MAINTAINED IN GOOD WORKING ORDER AND DESIGNED TO MINIMIZE WATER ON IMPERVIOUS SERVICES AND NOT OVERSPRAY WALKWAYS. A RAIN SENSOR DEVICE SHALL BE INSTALLED TO OVERRIDE THE IRRIGATION CYCLE OF THE SYSTEM WHEN ADEQUATE RAINFALL HAS OCCURRED.
   - 9.2. ALL PLANT MATERIAL SHALL BE WATERED IN AT TIME OF PLANTING IN ACCORDANCE WITH STANDARD NURSERY PRACTICES. IN ADDITION, CONTRACTOR WILL CONTINUE THE WATERING OF PLANT MATERIAL UNTIL SUBSTANTIAL COMPLETION AND THE LANDSCAPE IS TURNED OVER TO THE OWNER.
10. PROJECT CLOSEOUT
   - 10.1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEPT BROOM CLEAN.
   - 10.2. THE CONTRACTOR SHALL RESTORE, REPLACE OR AS DIRECTED BY THE LANDSCAPE ARCHITECT, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY THE WORK OF THE CONTRACTOR, HIS EQUIPMENT, EMPLOYEES OR THOSE OF HIS SUB-CONTRACTORS. THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT OF THE EXISTING ADJACENT AREAS. THE RESTORATION WORK SHALL BE AT THE CONTRACTOR'S EXPENSE. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
   - 10.3. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK. THESE AREAS SHALL BE KEPT IN A CLEAN AND NEAT CONDITION.
   - 10.4. THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF WORK ITEMS COMPLETED.
   - 10.5. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE LANDSCAPE ARCHITECT OF RECORD COMPLETE SETS OF "AS-BUILT" CONSTRUCTION DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS INCLUDING PRODUCT/EQUIPMENT AS SPECIFIED OR REVISED DURING THE SHOP DRAWING SUBMITTAL PROCESS. AS-BUILT DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR.
11. GUARANTEE
   - 11.1. ALL NEW PLANT MATERIAL SHALL BE GUARANTEED FOR 1 YEAR FROM TIME OF FINAL ACCEPTANCE OF PROJECT. ANY PLANT MATERIAL NOT IN A HEALTHY GROWING CONDITION WILL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER WITHIN 10 DAYS OF NOTIFICATION.
   - 11.2. FOR ALL REPLACEMENT PLANT MATERIAL, THE WARRANTY PERIOD SHALL BE EXTENDED AN ADDITIONAL 90 DAYS BEYOND THE ORIGINAL WARRANTY PERIOD. REPLACEMENT MATERIAL SHALL BE REPLACED IN KIND AS IT RELATES TO SPECIES, QUANTITY AND SIZE.
   - 11.3. ALL TREES THAT LEAN OR ARE BLOWN OVER, CAUSED BY WINDS LESS THAN 74 MPH AS DETERMINED BY THE NATIONAL HURRICANE CENTER, WILL BE RE-SET AND BRACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

PLANNING BOARD REVIEW

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DESIGNER: ACS
DRAWN BY: AA
CHECKER: JLA
SCALE: AS SHOWN

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The Seminole Tribe of Florida

SEMINOLE VILLAGE

LANDSCAPE SPECIFICATIONS

Date: 03/14/2019
Sheet: 17 of 22
Drawing: LNP-3
PROJECT NO. 300.001

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GENERAL NOTES

1. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES.
2. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
3. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH FPL ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
4. CONTRACTOR SHALL VERIFY PROPER CLEARANCE BELOW EXISTING OVERHEAD POWER LINES PRIOR TO WORKING WITHIN THE VICINITY THE POWER LINES.
5. MAINLINE LOCATION, WHERE SHOWN, IS FOR GRAPHIC CLARITY PURPOSES ONLY. INSTALL AT THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR ADJACENT TO OTHER HARDSCAPES TO FACILITATE FUTURE LOCATION AND TO PROTECT FROM DAMAGE. ENSURE MAINLINE IS INSTALLED ACCORDING TO THE IRRIGATION SPECIFICATIONS AND DETAILS.
6. IF IT IS NECESSARY TO HAVE PIPING UNDER HARDSCAPE ITEMS, SUCH AS ROADS, WALKS AND PATIOS, THE PIPES MUST BE SLEEVED USING SCH 40 PVC WITH THE SLEEVE DIAMETER BEING AT LEAST TWICE THE SIZE OF THE PIPE IT IS CARRYING.
7. ANY MAJOR DESIGN CHANGES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT OF RECORD PRIOR TO CONSTRUCTION; CONTRACTOR PROCEEDS WITH CHANGES AT OWN RISK.
8. THE SYSTEM HAS BEEN DESIGNED TO UTILIZE LOW VOLUME, WATER EFFICIENT PRODUCTS. NO SUBSTITUTIONS SHALL BE PERMITTED, EXCEPT WITH WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT OF RECORD. PRODUCTS UTILIZED IN THE FIELD THAT HAS NOT BEEN APPROVED WILL BE REJECTED AT THE EXPENSE OF THE CONTRACTOR.
9. IRRIGATION SYSTEM SHALL COMPLY WITH SFWMD IRRIGATION SYSTEM CRITERIA AND CURRENT WATER USE PERMIT.
10. IRRIGATION WELL CONSTRUCTION PERMIT TO BE OBTAINED BY CONTRACTOR.

IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL	ARC
T	Hunter MP1000 PROS-06-PRS40-CV	210-270
M	Hunter MP1000 PROS-06-PRS40-CV	45-210
Q	Hunter MP2000 PROS-06-PRS40-CV	210-270
H	Hunter MP2000 PROS-06-PRS40-CV	45-210
A	Hunter MP3000 PROS-06-PRS40-CV	360
B	Hunter MP3000 PROS-06-PRS40-CV	45-210
D	Hunter MP3000 PROS-06-PRS40-CV	210-270
E	Hunter MP3500 PROS-06-PRS40-CV	90-210
	Hunter MP Strip PROS-06-PRS40-CV	LCS
	Hunter MP Strip PROS-06-PRS40-CV	RCS
	Hunter MP Strip PROS-06-PRS40-CV	SST

SYMBOL	MANUFACTURER/MODEL
	Hunter ICZ-151-40
	Area to Receive Dripline Hunter PLD-10-12 (18)

SYMBOL	MANUFACTURER/MODEL
	Hunter ICV-G-FS
C	Hunter IC-1200-M
S	Hunter Solar-Sync-Sen
P	Pump Station
3" WELL	3" Well
	Irrigation Lateral Line: PVC Class 200 SDR 21
	Irrigation Mainline: PVC Class 200 SDR 21
	Pipe Sleeve: PVC Schedule 40

GRAPHIC SCALE

30 0 15 30 60

(IN FEET)
1 INCH = 30 FEET

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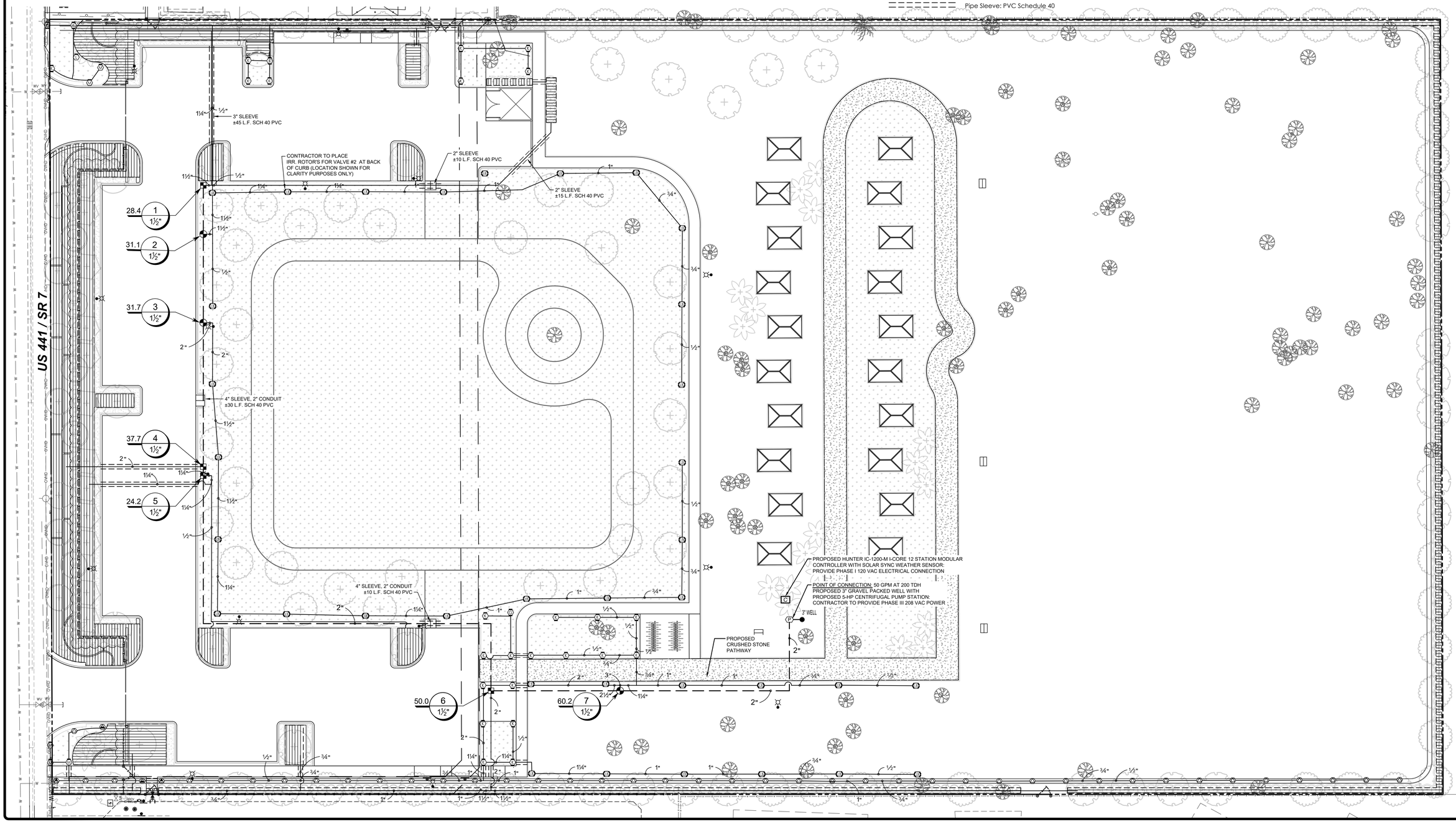

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DESIGNER: ACS
DRAWN BY: EDH, SZB
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SEMINOLE VILLAGE

IRRIGATION PLAN

Date: 03/14/2019
Sheet: 18 of 22
Drawing: IRR-1
PROJECT NO. 300.001

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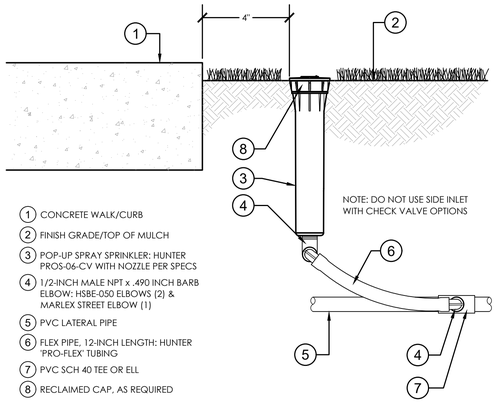
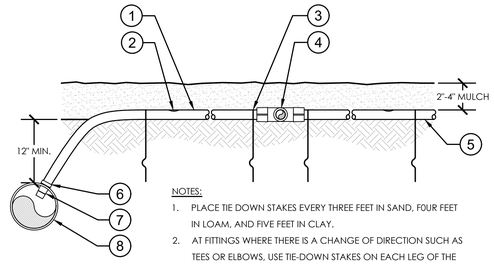


1. CONCRETE WALK/CURB
2. FINISH GRADE/TOP OF MULCH
3. POP-UP SPRAY SPRINKLER: HUNTER PROS-06-CV WITH NOZZLE PER SPECS
4. 1/2-INCH MALE NPT x .490 INCH BARB ELBOW: HSBE-050 ELBOWS (2) & MARLEX STREET ELBOW (1)
5. PVC LATERAL PIPE
6. FLEX PIPE, 12-INCH LENGTH: HUNTER 'PRO-FLEX' TUBING
7. PVC SCH 40 TEE OR ELL
8. RECLAIMED CAP, AS REQUIRED

1 6" POP-UP SPRAY

3" = 1'-0" 328403.13-05

1. ON-SURFACE DRIPLINE
2. INLINE DRIP EMITTER OUTLET
3. TIE DOWN STAKE (TYPICAL)
4. EASY FIT COMPRESSION TEE
5. FINISH GRADE
6. RATCHET CLAMP (INCLUDED WITH ADAPTER)
7. INSERT ADAPTER FOR PVC PIPE
8. PVC LATERAL PIPE: MINIMUM 1" IN DIAMETER MINIMUM 12" DEPTH

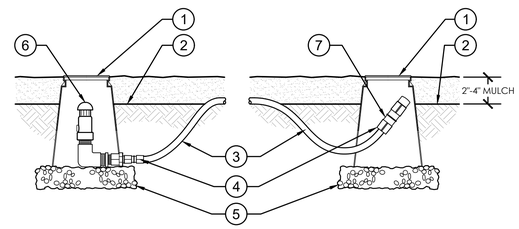


NOTES:
1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

2 TYPICAL DRIPLINE AND HEADER

1 1/2" = 1'-0" 328413.56-86

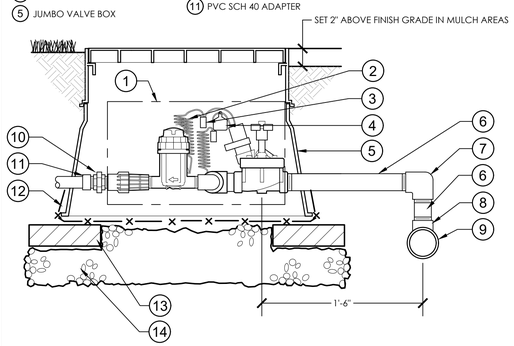
1. SUBTERRANEAN EMITTER BOX
2. FINISH GRADE
3. ON-SURFACE DRIPLINE
4. EASY FIT COUPLING
5. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
6. AIR RELIEF VALVE
7. FLUSH CAP FOR EASY FIT COMPRESSION FITTINGS



3 AIR RELIEF AND FLUSH VALVE

1 1/2" = 1'-0" 328413.56-87

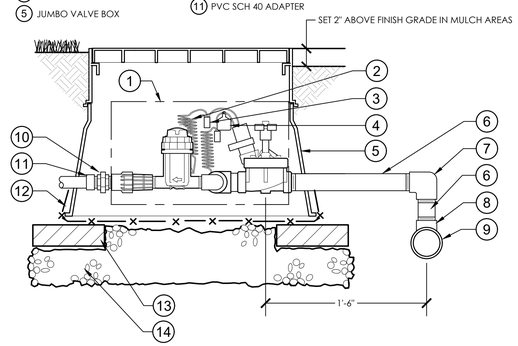
1. CONTROL ZONE KIT (AS SPECIFIED)
2. 30-INCH LINEAR LENGTH OF WIRE, COILED
3. WATERPROOF CONNECTION (1 OF 2)
4. ZONE ID TAG
5. JUMBO VALVE BOX
6. PVC SCH 80 NIPPLE
7. PVC SCH 40 ELL
8. PVC SCH 40 TEE
9. PVC MAINLINE PIPE
10. PVC UNION
11. PVC SCH 40 ADAPTER
12. 1/2" WIRE CLOTH GOPHER SCREEN WRAP ALL SIDES
13. BRICK (1 OF 4)
14. 6-INCH MINIMUM DEPTH 3/4" WASHED GRAVEL



4 CONTROL ZONE KIT WITH BASKET FILTER

1 1/2" = 1'-0" 328413.76-31

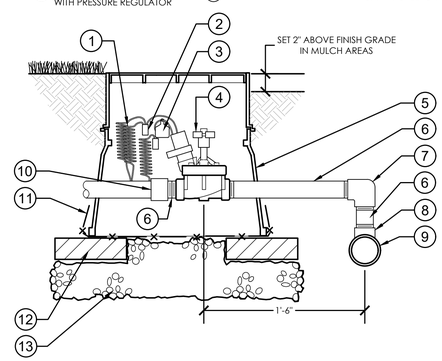
1. CONTROL ZONE KIT (AS SPECIFIED)
2. 30-INCH LINEAR LENGTH OF WIRE, COILED
3. WATERPROOF CONNECTION (1 OF 2)
4. ZONE ID TAG
5. JUMBO VALVE BOX
6. PVC SCH 80 NIPPLE
7. PVC SCH 40 ELL
8. PVC SCH 40 TEE
9. PVC MAINLINE PIPE
10. PVC UNION
11. PVC SCH 40 ADAPTER
12. 1/2" WIRE CLOTH GOPHER SCREEN WRAP ALL SIDES
13. BRICK (1 OF 4)
14. 6-INCH MINIMUM DEPTH 3/4" WASHED GRAVEL



5 CONTROL ZONE KIT WITH BASKET FILTER

1 1/2" = 1'-0" 328413.76-31

1. 30-INCH LINEAR LENGTH OF WIRE, COILED
2. WATERPROOF CONNECTION (1 OF 2)
3. ZONE ID TAG
4. REMOTE CONTROL VALVE WITH PRESSURE REGULATOR
5. STANDARD VALVE BOX
6. PVC SCH 80 NIPPLE
7. PVC SCH 40 ELL
8. PVC SCH 40 TEE
9. PVC MAINLINE PIPE
10. PVC SCH 40 ADAPTER
11. 1/2" WIRE CLOTH GOPHER SCREEN WRAP ALL SIDES
12. BRICK (1 OF 4)
13. 6-INCH MINIMUM DEPTH 3/4" WASHED GRAVEL



6 PRESSURE REGULATING REMOTE CONTROL VALVE

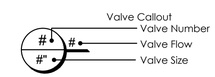
1 1/2" = 1'-0" 328406.13-11

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	RADIUS
	Hunter MP Strip PROS-06-PRS40-CV	2	LCS	40	5'x15'
	Hunter MP Strip PROS-06-PRS40-CV	2	RCS	40	5'x15'
	Hunter MP Strip PROS-06-PRS40-CV	41	SST	40	5'x30'
L	Hunter MP1000 PROS-06-PRS40-CV	1	210-270	40	14'
W	Hunter MP1000 PROS-06-PRS40-CV	5	90-210	40	14'
	Hunter MP2000 PROS-06-PRS40-CV	1	210-270	40	19'
	Hunter MP2000 PROS-06-PRS40-CV	27	90-210	40	19'
	Hunter MP3500 PROS-06-PRS40-CV	35	90-210	40	35'

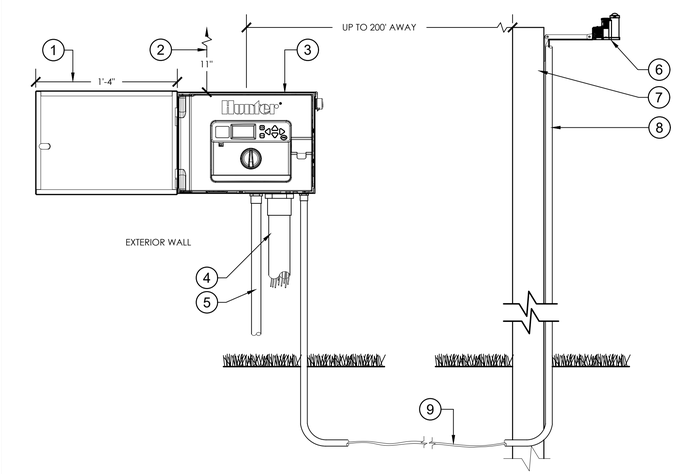
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICZ-151-40 1-1/2" ICV remote control valve with 1" HY100 filter system. 40 psi regulator and 120 mesh stainless steel screen.	4
	Area to Receive Dripline Hunter PLD-10-12 (18) In-Line Pressure Compensating Landscape Dripline with Built-In Check Valve, 1.0GPH emitters at 12.0" O.C. Dripline laterals spaced at 18.0" apart, with emitters offset for triangular pattern. UV Resistant.	12,037 s.f.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICV-G-FS 1-1/2" remote control valve, globe configuration, with filter sentry and pressure regulator	3
C	Hunter IC-1200-M Modular 12 station controller with metal cabinet	1
P	Pump Station 5 HP centrifugal pumping system with variable frequency drive, flow meter, and discharge isolation valve. 50 GPM, 200 TDH.	1
3" WELL	3" Well Intermediate depth, gravel packed	1
	Irrigation Lateral Line: PVC Class 200 SDR 21	3,559 l.f.
	Irrigation Mainline: PVC Class 200 SDR 21	528.3 l.f.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	252.7 l.f.



VALVE SCHEDULE

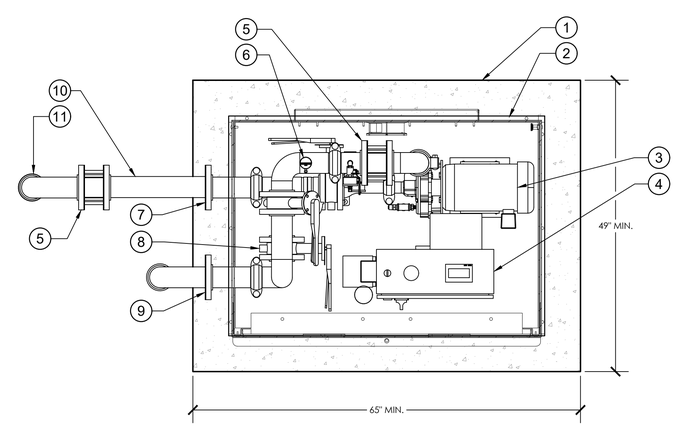
NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PRECIP
1	Hunter ICZ-151-40	1-1/2"	Area for Dripline	28.41	537.9	45.78	1.13 in/h
2	Hunter ICV-G-FS	1-1/2"	Turf Rotary	31.09	516.0	48.85	0.22 in/h
3	Hunter ICV-G-FS	1-1/2"	Turf Rotary	31.73	476.2	49.09	0.24 in/h
4	Hunter ICZ-151-40	1-1/2"	Area for Dripline	37.66	411.4	46.64	1.13 in/h
5	Hunter ICZ-151-40	1-1/2"	Area for Dripline	24.19	407.4	45.08	1.13 in/h
6	Hunter ICZ-151-40	1-1/2"	Area for Dripline	49.99	181.4	61.73	1.13 in/h
7	Hunter ICV-G-FS	1-1/2"	Turf Rotary	60.22	123.4	50.47	0.38 in/h
	Common Wire				528.3		



1. MINIMUM CLEARANCE FOR DOOR OPENING
2. MINIMUM VERTICAL CLEARANCE NEEDED FOR HINGE PIN REMOVAL
3. I-CORE CONTROLLER
4. CONTROL WIRE IN ELECTRICAL CONDUIT. SIZE AND TYPE PER LOCAL CODE
5. 1/2" POWER SUPPLY CONDUIT J-BOX INSIDE CONTROLLER CONNECT PER LOCAL CODE
6. SOLAR SYNC SENSOR
7. SUITABLE POST, POLE, WALL OR GUTTER MOUNT. MOUNT IN OCATION WHERE SENSOR CAN RECEIVE FULL SUN, IS OPEN TO RAINFALL AND OUT OF SPRINKLER SPRAY PATTERN
8. CONDUIT FOR SOLAR SYNC COMMUNICATION WIRE TO CONTROLLER OR 12" BELOW GRADE
9. COMMUNICATION WIRE, 18-2(WIRE TYPE TO MEET INSTALLATION CODE REQUIREMENTS), FROM MODULE TO SENSOR. MAXIMUM TOTAL WIRE DISTANCE, 200 FEET

7 I-CORE WALL MOUNTED CONTROLLER WITH SOLAR SYNC

1 1/2" = 1'-0" 328409.13-30



1. 3000 PSI CONCRETE SLAB
2. POWDER COATED ALUMINUM ENCLOSURE
3. HORIZONTAL PUMP
4. NEMA 3R CONTROL PANEL
5. CHECK VALVE
6. FLOW METER AND MASTER SHUTOFF VALVE WITH OUTPUT TO CONTROLLER
7. INTAKE FLANGE
8. BYPASS VALVE
9. DISCHARGE FLANGE
10. SUCTION LINE
11. WELL WITH STEEL CASING AND 10 MESH STAINLESS STEEL SCREEN, TEE BY WELL DRILLER

NOTE:
1. SUCTION PIPE SHALL BE SCHED 40 GALVANIZED STEEL WITH GALVANIZED ROLL GROOVE FITTINGS FROM THE PUMP TO THE WELL TEE
2. CHECK VALVES 3" AND LARGER SHALL BE SWING TYPE, 2" AND SMALLER SHALL BE POPPET STYLE
3. PROVIDE MINIMUM OF 4' CLEARANCE ON ALL SIDES OF PUMP SYSTEM

8 CENTRIFUGAL WELL PUMP SYSTEM

1" = 1'-0" 328409.56-07

NO.	DATE	REVISION	BY
5			
4			
3			
2			
1			

DESIGNER: ACS
DRAWN BY: EDH, SZB
CHECKER: CAB
SCALE: AS SHOWN

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The Seminole Tribe of Florida

SEMINOLE VILLAGE

IRRIGATION DETAILS

Date: 03/14/2019
Sheet: 19 of 22
Drawing: IRR-2
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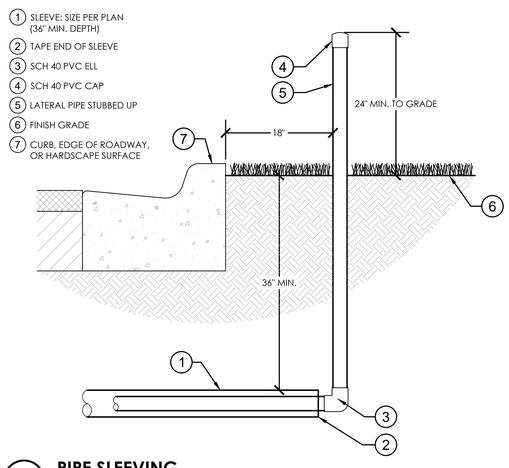
IRRIGATION SPECIFICATIONS

1. GENERAL
   - 1.1. THE SYSTEM HAS BEEN DESIGNED TO CONFORM WITH THE REQUIREMENTS OF ALL APPLICABLE CODES. SHOULD ANY CONFLICT EXIST, THE REQUIREMENTS OF THE CODES SHALL PREVAIL. IT IS THE RESPONSIBILITY OF THE OWNER/INSTALLATION CONTRACTOR TO INSURE THE ENTIRE SYSTEM IS INSTALLED ACCORDING TO ALL APPLICABLE LAWS, RULES, REGULATIONS AND CONVENTIONS. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS ACCORDING TO FEDERAL, STATE AND LOCAL LAWS.
   - 1.2. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES.
   - 1.3. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
   - 1.4. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND VERIFY PROPER CLEARANCE WITH FPL ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
   - 1.5. THE CONTRACTOR MUST SUBMIT FOR APPROVAL, PRIOR TO INSTALLATION, COPIES OF THE MANUFACTURER'S CUT SHEETS/SPECIFICATIONS FOR ALL COMPONENTS TO BE USED IN THE IRRIGATION SYSTEM.
   - 1.6. THE IRRIGATION CONTRACTOR SHALL BE CERTIFIED AS A CERTIFIED IRRIGATION CONTRACTOR BY THE IRRIGATION ASSOCIATION. THE CERTIFICATION SHALL BE CURRENT AND IN GOOD STANDING.
2. SCOPE OF WORK
   - 2.1. THE WORK SPECIFIED IN THIS SECTION CONSISTS OF FURNISHING ALL COMPONENTS NECESSARY FOR THE INSTALLATION, TESTING, AND DELIVERY OF A COMPLETE, FULLY FUNCTIONAL AUTOMATIC LANDSCAPE IRRIGATION SYSTEM THAT COMPLETELY COMPLIES WITH THE 100% IRRIGATION PLANS, SPECIFICATIONS, NOTES, DETAILS AND ALL APPLICABLE LAWS, REGULATIONS, CODES AND ORDINANCES. THIS WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, THE PROVIDING OF ALL REQUIRED MATERIAL (PIPE, VALVES, FITTINGS, CONTROLLERS, WIRE, PRIMER, GLUE, ETC.), LAYOUT, PROTECTION OF THE PUBLIC, EXCAVATION, ASSEMBLY, INSTALLATION, BACK FILLING, COMPACTING, REPAIR OF ROAD SURFACES, CONTROLLER AND LOW VOLTAGE FEEDS TO VALVES, CLEANUP, MAINTENANCE, GUARANTEE AND AS-BUILT PLANS.
   - 2.2. ALL IRRIGATED AREAS SHALL PROVIDE 100% HEAD-TO-HEAD COVERAGE FROM A FULLY AUTOMATIC IRRIGATION SYSTEM WITH A RAIN SENSOR AS SHOWN. THE RAIN SENSOR SHALL BE INSTALLED TO PREVENT ITS ACTIVATION BY ADJACENT HEADS. ALL WATERING PROCEDURES SHALL CONFORM TO LOCAL CODES, AS WELL AS THIS PROJECT'S REGIONAL WATER MANAGEMENT DISTRICT RESTRICTIONS AND REGULATIONS. ZONES ARE PRIORITIZED FIRST BY PUBLIC SAFETY AND THEN BY HYDRAULIC CONCERNS. THIS SEQUENCING WILL BE A MANDATORY PUNCH LIST ITEM. THESE PLANS HAVE BEEN DESIGNED TO SATISFY/EXCEED THE FLORIDA BUILDING CODE (FBC) APPENDIX F AND THE FLORIDA IRRIGATION SOCIETY STANDARDS AND SPECIFICATIONS FOR TURF AND LANDSCAPE IRRIGATION SYSTEMS, FOURTH EDITION.
   - 2.3. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES 72 HOURS PRIOR TO COMMENCEMENT OF WORK.
   - 2.4. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, STRUCTURES AND UTILITIES. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTION, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS, OR DIFFERENCES, SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER' AUTHORIZED REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
   - 2.5. IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING SITE ITEMS DAMAGED BY THEIR WORK. IRRIGATION CONTRACTOR SHALL COORDINATE THEIR WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS THROUGH WALLS, UNDER ROADWAYS AND PAVING, ETC.
   - 2.6. THE CONTRACTOR SHALL TAKE IMMEDIATE STEPS TO REPAIR, REPLACE, OR RESTORE ALL SERVICES TO ANY UTILITIES WHICH ARE DISRUPTED DUE TO THEIR OPERATIONS. ALL COSTS INVOLVED IN DISRUPTION OF SERVICE AND REPAIRS DUE TO NEGLIGENCE ON THE PART OF THE CONTRACTOR SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
3. SUBMITTALS
   - 3.1. THE CONTRACTOR MUST SUBMIT FOR APPROVAL, PRIOR TO INSTALLATION, COPIES OF THE MANUFACTURER'S CUT SHEETS/SPECIFICATIONS FOR ALL COMPONENTS TO BE USED IN THE IRRIGATION SYSTEM.
   - 3.2. AFTER PROJECT COMPLETION, AND AS A CONDITION OF FINAL ACCEPTANCE, THE IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER WITH A HIGH QUALITY, ACCURATE, AND LEGIBLE SET OF AS-BUILT DRAWINGS. THE AS-BUILTS MUST IDENTIFY ALL REMOTE CONTROL VALVES, GATE VALVES, BALL VALVES, SPLICE BOXES, CONTROLLERS, MAINLINE, SLEEVING, AND LOW VOLTAGE WIRING. EACH OF THESE ITEMS IS SHALL LOCATED USING A SUBMETER GPS SYSTEM. THE IRRIGATION CONTRACTOR MUST ALSO PROVIDE ACCURATE, INFORMATIVE, AND EASY TO FOLLOW AND UNDERSTAND OPERATION AND MAINTENANCE MANUALS FOR ALL COMPONENTS OF THE IRRIGATION SYSTEM.
   - 3.3. CONTROLLER CHARTS - UPON COMPLETION OF "AS-BUILTS", CONTRACTOR SHALL PREPARE CONTROLLER CHARTS AT ONE PER CONTROLLER. INDICATE ON EACH CHART THE AREA CONTROLLED BY A REMOTE CONTROL VALVE (USING A DIFFERENT COLOR FOR EACH ZONE). THIS CHART SHALL BE REDUCED TO A SIZE THAT WILL FIT INSIDE OF THE CONTROLLER DOOR. THE REDUCTION SHALL BE HERMETICALLY SEALED INSIDE TWO 2ML PIECES OF CLEAR PLASTIC.
   - 3.4. CONTRACTOR SHALL FURNISH EXTRA MATERIALS THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS. THESE MATERIALS SHALL INCLUDE FIVE OF EACH UNIT OF SPRAYS AND ROTOR BODIES, NOZZLES, EMITTERS, AND DRIP TUBE COMPONENTS. INCLUDE TOOLS TO SERVICE THESE PRODUCTS.
4. FINAL ACCEPTANCE
   - 4.1. FINAL ACCEPTANCE OF THE IRRIGATION SYSTEM WILL BE GIVEN AFTER THE FOLLOWING DOCUMENTS AND CONDITIONS HAVE BEEN COMPLETED AND APPROVED. FINAL PAYMENT WILL NOT BE RELEASED UNTIL THESE CONDITIONS ARE SATISFIED.
     1. FINAL WALK-THRU AND CORRECTION OF ALL PUNCH LIST ITEMS.
     2. COMPLETION AND ACCEPTANCE OF `AS-BUILT' DRAWINGS.
     3. ACCEPTANCE OF REQUIRED CONTROLLER CHARTS AND PLACEMENT INSIDE OF CONTROLLERS.
     4. TURNOVER OF ALL REQUIRED PARTS AND TOOLS AS OUTLINED IN THE PROJECT SPECIFICATIONS.
5. GUARANTEE
   - 5.1. FULLY WARRANT THE LANDSCAPE IRRIGATION SYSTEM FOR A PERIOD OF ONE (1) YEAR AFTER THE WRITTEN FINAL ACCEPTANCE.
   - 5.2. DURING THE WARRANTY PERIOD, ENFORCE MANUFACTURER'S AND SUPPLIER'S WARRANTIES. MALFUNCTIONS, DEFICIENCIES, BREAKS, DAMAGES, DISREPAIR OR OTHER DISORDERS DUE TO MATERIALS, WORKMANSHIP, OR INSTALLATION BY THE CONTRACTOR AND HIS SUPPLIERS SHALL BE IMMEDIATELY AND PROPERLY CORRECTED.
   - 5.3. REPAIR DAMAGES PROMPTLY WHICH ARE CAUSED BY SYSTEM MALFUNCTION.
6. POINT OF CONNECTION (P.O.C.)
   - 6.1. THE POC IS A PROPOSED 5-HP CENTRIFUGAL PUMP SYSTEM, UTILIZING A PROPOSED 3" GRAVEL PACKED INTERMEDIATE DEPTH WELL. THE POC SHALL BE CAPABLE OF SUPPLYING A MINIMUM OF 50 GPM AT 60 PSI. CONTRACTOR SHALL VERIFY THESE MINIMUM CONDITIONS CAN BE MET PRIOR TO BEGINNING IRRIGATION SYSTEM INSTALLATION.
   - 6.2. IF THE CONDITIONS CAN NOT BE MET, THE CONTRACTOR MUST NOTIFY THE DESIGNER PRIOR TO PROCEEDING WITH THE WORK. IF THE CONTRACTOR DOES NOT DO SO, THE CONTRACTOR PROCEEDS AT THEIR OWN RISK AND BECOMES RESPONSIBLE FOR ANY FUTURE WORK REQUIRED TO MAKE THE SYSTEM PERFORM AS REQUIRED.
7. PIPING
   - 7.1. MAINLINE SHALL BE PVC CLASS 200 SDR 21, NON-GASKETED, SOLVENT WELD, WITH SCHEDULE 40 PVC FITTINGS.
   - 7.2. LATERAL PIPE SHALL BE PVC CLASS 200 SDR 21, NON-GASKETED, SOLVENT WELD, WITH SCHEDULE 40 PVC FITTINGS.
   - 7.3. PIPE LOCATIONS SHOWN ON THE PLAN ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD. WHEN LAYING OUT MAINLINES PLACE A MAXIMUM OF 12" AWAY FROM EITHER THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR OTHER HARDSCAPE TO ALLOW FOR EASE IN LOCATING AND PROTECTION FROM PHYSICAL DAMAGE. INSTALL ALL LATERAL PIPE NEAR EDGES OF PAVEMENT OR AGAINST BUILDINGS WHENEVER POSSIBLE TO ALLOW SPACE FOR PLANT ROOT BALLS. ALWAYS INSTALL PIPING INSIDE PROJECT PROPERTY BOUNDARY.
   - 7.4. PIPES SHALL ALWAYS BE PLACED IN PLANTING BEDS. IF IT IS NECESSARY TO HAVE PIPING UNDER HARDSCAPES, SUCH AS ROADS, WALKS, AND PATIOS, THE PIPES MUST BE SLEEVED USING SCH 40 PVC WITH THE SLEEVE DIAMETER BEING TWICE THE SIZE OF THE PIPE IT IS CARRYING WITH A MINIMUM SLEEVE SIZE OF 2".
   - 7.5. PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED. ALL DAMAGED AND REJECTED PIPE SHALL BE REMOVED FROM THE SITE AT THE TIME OF SAID REJECTION.
   - 7.6. CONTRACTOR TO ENSURE ALL MAINLINE PIPING IS PROPERLY RESTRAINED USING MECHANICAL JOINT FITTINGS, RESTRAINING COLLARS, THREADED RODS, THRUST BLOCKS, ETC., AS AND WHERE REQUIRED. CONTRACTOR SHALL REFER TO PIPE MANUFACTURER'S RECOMMENDED INSTALLATION PRACTICES FOR FURTHER DIRECTION.
   - 7.7. PVC PIPE JOINT COMPOUND AND PRIMER: SLOW-DRYING, HEAVY DUTY CEMENT AND TINTED (PURPLE) PRIMER THAT IS COMPATIBLE WITH THE CEMENT. THE PVC CEMENT SHALL BE WELD-ON 2711 GREY AND THE PRIMER SHALL BE WELD-ON P70 PURPLE PRIMER, OR APPROVED EQUALS.
   - 7.8. MAIN LINE PIPE DEPTH MEASURED TO THE TOP OF PIPE SHALL BE 18" MINIMUM, 36" MINIMUM AT VEHICULAR CROSSINGS.
   - 7.9. LATERAL LINE DEPTHS MEASURED TO TOP OF PIPE SHALL BE 12" MINIMUM, 30" MINIMUM AT VEHICULAR CROSSINGS.
8. LAYOUT
   - 8.1. LAY OUT IRRIGATION SYSTEM MAINLINES AND LATERAL LINES. MAKE THE NECESSARY ADJUSTMENTS AS REQUIRED TO TAKE INTO ACCOUNT ALL SITE OBSTRUCTIONS AND LIMITATIONS PRIOR TO EXCAVATING TRENCHES.
   - 8.2. STAKE ALL SPRINKLER HEAD LOCATIONS. ADJUST LOCATION AND MAKE THE NECESSARY MODIFICATIONS TO NOZZLE TYPES, ETC. REQUIRED TO INSURE 100% HEAD TO HEAD COVERAGE. REFER TO THE EDGE OF PAVEMENT DETAIL ON THE IRRIGATION DETAIL SHEET.
   - 8.3. SPRAY HEADS SHALL BE INSTALLED 4" FROM SIDEWALKS OR CURBED ROADWAYS AND 12" FROM UNCURBED ROADWAYS AND BUILDING FOUNDATIONS. ROTORS SHALL BE INSTALLED 4" FROM SIDEWALKS OR CURBED ROADWAYS, 12" FROM BUILDING FOUNDATIONS, AND 36" FROM UNCURBED ROADWAYS.
   - 8.4. SHRUB HEADS SHALL BE INSTALLED ON 3/4" SCH 40 PVC RISERS. THE RISERS SHALL BE SET AT A MINIMUM OF 18" OFF SIDEWALKS, ROADWAY CURBING, BUILDING FOUNDATIONS, AND/OR ANY OTHER HARDSCAPED AREAS. SHRUB HEADS SHALL BE INSTALLED TO A STANDARD HEIGHT OF 4" BELOW MAINTAINED HEIGHT OF PLANTS AND SHALL BE INSTALLED WITHIN PLANTED MASSES TO BE LESS VISIBLE AND OFFER PROTECTION. PAINT ALL SHRUB RISERS WITH FLAT BLACK OR FOREST GREEN PAINT, UNLESS IRRIGATION SYSTEM WILL BE INSTALLED FROM A REUSE WATER SYSTEM WITH PURPLE PVC RISERS.
   - 8.5. LOCATE VALVES PRIOR TO EXCAVATION. INSURE THAT THEIR LOCATION PROVIDES FOR EASY ACCESS AND THAT THERE IS NO INTERFERENCE WITH PHYSICAL STRUCTURES, PLANTS, TREES, POLES, ETC. VALVE BOXES MUST BE PLACED A MINIMUM OF 12" AND A MAXIMUM OF 15" FROM THE EDGE OF PAVEMENT, CURBS, ETC., AND THE TOP OF THE BOX MUST BE 2" ABOVE FINISH GRADE. NO VALVE BOXES SHALL BE INSTALLED IN TURF AREAS WITHOUT APPROVAL BY THE IRRIGATION DESIGNER; ONLY IN SHRUB BEDS. NEVER INSTALL VALVE BOXES WITHIN A SPORTS FIELD OR DESIGNATED PLAY AREA.
8. ELECTRICAL POWER SUPPLY
   - 8.1. ELECTRICAL SUPPLY FOR PUMP AND CONTROLLER SHALL TO BE PROVIDED BY THE IRRIGATION CONTRACTOR. CONTRACTOR TO COORDINATE WITH LOCAL UTILITIES FOR THE INSTALLATION OF AND CONNECTION TO AVAILABLE SITE POWER SUPPLY FOR REQUIRED ELECTRICAL COMPONENTS AS SET FORTH IN THE 100% IRRIGATION PLANS.
   - 8.2. ALL ELECTRICAL INSTALLATION TO COMPLY WITH THE NATIONAL ELECTRICAL CODE AND ANY AND ALL OTHER APPLICABLE ELECTRICAL CODES, LAWS AND REGULATIONS. A LICENSED ELECTRICIAN SHALL PERFORM ALL ELECTRICAL HOOK-UPS. POWER FOR THE PUMP SHALL BE 230 VOLT, 3 PHASE; CONTROLLER SHALL BE 120 VOLT, 20 AMP.
9. WIRING
   - 9.1. IRRIGATION CONTROL WIRE SHALL BE THERMOPLASTIC SOLID COPPER, SINGLE CONDUCTOR, LOW VOLTAGE IRRIGATION CONTROLLER WIRE SUITABLE FOR DIRECT BURIAL AND CONTINUOUS OPERATION AT RATED VOLTAGES.
   - 9.2. TAPE AND BUNDLE CONTROL WIRES EVERY 10' AND RUN ADJACENT TO THE MAINLINE. AT ALL TURNS IN DIRECTION MAKE A 2' COIL OF WIRE. AT ALL VALVE BOXES COIL WIRE AROUND A 3/4" PIECE OF PVC PIPE TO MAKE A COIL USING 30 LINEAR INCHES OF WIRE. MAKE ELECTRICAL CONNECTIONS WITH 3M-DBY,DBR CONNECTORS.
   - 9.3. NUMBER ALL WIRES USING AN ELECTRICAL BOOK OF NUMBERS ACCORDING TO THE PLANS. NUMBER WIRES IN ALL VALVE BOXES, JUNCTION BOXES AND AT THE CONTROLLER.
   - 9.4. WIRE SIZED, NUMBERED AND COLORED AS FOLLOWS:
     - #14 WHITE FOR COMMON
     - #14 SPARE BLACK COMMON
     - #14 RED FOR HOT WIRES
     - #14 SPARE YELLOW HOT WIRE
10. CONTROLLER GROUNDING
    - 10.1. CONTRACTOR TO UTILIZE 4"X8'X5/8" COPPER GROUNDING PLATES, 5/8"X10' COPPER CLAD GROUNDING RODS, 'ONE STRIKE' CAD WELLS AT ALL CONNECTION POINTS, #6 BARE COPPER WIRE, AND EARTH CONTACT MATERIAL. INSTALL THESE AND OTHER REQUIRED COMPONENTS AS OUTLINED IN THE DETAIL. CONTRACTOR TO VERIFY THAT THE EARTH TO GROUND RESISTANCE DOES NOT EXCEED 10 OHMS. CONTRACTOR SHALL PROVIDE A WRITTEN CERTIFICATION ON A LICENSED ELECTRICAL CONTRACTORS LETTER HEAD SHOWING THE DATE OF THE TEST, CONTROLLER LOCATION, AND TEST RESULTS. EACH CONTROLLER SHALL BE SO GROUNDED AND TESTED.
11. VALVES
    - 11.1. SEQUENCE ALL VALVES SO THAT THE FARTHEST VALVE FROM THE P.O.C. OPERATES FIRST AND THE CLOSEST TO THE P.O.C. OPERATES LAST. THE CLOSEST VALVE TO THE P.O.C. SHOULD BE THE LAST VALVE IN THE PROGRAMMED SEQUENCE.
    - 11.2. ADJUST THE FLOW CONTROL ON EACH RCV TO ENSURE SHUT OFF IN 10 SECONDS AFTER DEACTIVATION BY THE IRRIGATION CONTROLLER.
    - 11.3. USING 3" HIGH NUMBER STENCILS, PAINT THE VALVE NUMBER IN WHITE ON THE LID OF EACH VALVE BOX.
12. EQUIPMENT
    - 12.1. BUBBLERS SHALL BE INSTALLED USING SCH 80 NIPPLES AND SHALL BE PLACED AT THE BASE OF TREES FOR LOW LEVEL WATERING.
    - 12.2. ALL POP-UP HEADS AND SHRUB RISERS SHALL BE PRESSURE COMPENSATING. ALL POP-UP HEADS SHALL BE MOUNTED ON FLEX-TYPE SWING JOINTS.
    - 12.3. ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS, AND IN ACCORDANCE WITH LOCAL AND STATE LAWS.
13. TRENCHING
    - 13.1. EXCAVATE STRAIGHT AND VERTICAL TRENCHES WITH SMOOTH, FLAT OR SLOPING BOTTOMS. TRENCH WIDTH AND DEPTH SHOULD BE SUFFICIENT TO ALLOW FOR THE PROPER VERTICAL AND HORIZONTAL SEPARATION BETWEEN PIPING AS SHOWN IN THE PIPE INSTALLATION DETAIL ON THE DETAIL SHEET.
    - 13.2. PROTECT EXISTING LANDSCAPED AREAS. REMOVE AND REPLANT ANY DAMAGED PLANT MATERIAL UPON JOB COMPLETION. THE REPLACEMENT MATERIAL SHALL BE THE SAME GENUS, SPECIES, AND SIZE OF THE MATERIAL IT IS REPLACING. THE FINAL DETERMINATION AS TO WHAT NEEDS TO BE REPLACED AND THE ACCEPTABILITY OF THE REPLACEMENT MATERIAL SHALL BE SOLELY DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.
14. INSTALLATION
    - 14.1. CUT ALL PIPE SQUARE AND DEBURR. CLEAN PIPE AND FITTINGS OF FOREIGN MATERIAL, THEN APPLY A SMALL AMOUNT OF PRIMER WHILE ENSURING THAT ANY EXCESS IS WIPED OFF IMMEDIATELY. PRIMER SHOULD NOT PUDDLE OR DRIP FROM PIPE OR FITTINGS. NEXT APPLY A THIN COAT OF PVC CEMENT. FIRST APPLY A THIN LAYER TO THE PIPE, THEN A THIN LAYER INSIDE THE FITTING, AND FINALLY ANOTHER VERY THIN LAYER ON THE PIPE. INSERT THE PIPE INTO THE FITTING. INSURE THAT THE PIPE IS INSERTED TO THE BOTTOM OF THE FITTING, THEN TURN THE PIPE A 1/4 TURN AND HOLD FOR 10 SECONDS. MAKE SURE THAT THE PIPE DOESN'T RECEDE FROM THE FITTING. IF THE PIPE ISN'T AT THE BOTTOM OF THE FITTING UPON COMPLETION, THE GLUE JOINT IS UNACCEPTABLE AND MUST BE DISCARDED.
    - 14.2. PIPES MUST CURE A MINIMUM OF 30 MINUTES PRIOR TO HANDLING AND PLACING INTO TRENCHES. A LONGER CURING TIME MAY BE REQUIRED; REFER TO THE MANUFACTURER'S SPECIFICATIONS. THE PIPE MUST CURE A MINIMUM OF 24 HOURS PRIOR TO FILLING WITH WATER.
15. BACKFILLING
    - 15.1. THE BACKFILL 6" BELOW AND 6" ABOVE ALL PIPING SHALL BE CLEAN SAND. ALL OTHER TRCNCH BACKFILL CAN BE NATIVE MATERIAL BUT SHALL NOT CONTAIN ANYTHING LARGER THAN 2" IN DIAMETER.
    - 15.2. CONTRACTOR SHALL BACKFILL ALL PIPING, BOTH MAINLINE AND LATERALS, PRIOR TO PERFORMING ANY PRESSURE TESTS. THE PIPE SHALL BE BACKFILLED WITH THE EXCEPTION OF 2' ON EACH SIDE OF EVERY JOINT (BELL FITTINGS, 90'S, TEES, 45'S, ETC.). THESE JOINTS SHALL NOT BE BACKFILLED UNTIL ALL PIPING HAS SATISFACTORILY PASSED ITS APPROPRIATE PRESSURE TEST AS OUTLINED BELOW.
16. TESTING & FLUSHING
    - 16.1. MAINLINE PRESSURE TEST: REMOVE ALL REMOTE CONTROL VALVES AND CAP USING A THREADED CAP. FILL MAINLINE WITH WATER AND PRESSURIZE THE SYSTEM TO 125 PSI. MONITOR THE SYSTEM PRESSURE AT TWO GAUGE LOCATIONS; THE GAUGE LOCATIONS MUST BE AT OPPOSITE ENDS OF THE MAINLINE. WITH THE SAME RESPECTIVE PRESSURES, MONITOR THE GAUGES FOR TWO HOURS. THERE CAN BE NO LOSS IN PRESSURE AT EITHER GAUGE FOR SOLVENT-WELDED PIPE. GASKETED PIPING SHALL LOSE NO MORE WATER THAN ALLOWED PER THE FLORIDA STATE BUILDING CODE, VOLUME II PLUMBING, PART VI, APPENDIX 'F'. REFER TO THIS SECTION FOR THE FORMULA TO BE USED TO CALCULATE THE MAXIMUM ALLOWABLE WATER LOSS DURING THE TESTING TIME. IF THESE PARAMETERS ARE EXCEEDED, LOCATE THE PROBLEM; REPAIR IT; WAIT 24 HOURS AND RETRY THE TEST. THIS PROCEDURE MUST BE FOLLOWED UNTIL THE MAINLINE PASSES THE TEST.
    - 16.2. LATERAL LINES MUST BE FILLED AND VISUALLY CHECKED FOR LEAKS. ANY LEAKS DETECTED MUST BE REPAIRED. NO PRESSURE TEST OF THE LATERAL LINES IS REQUIRED.
    - 16.3. PRIOR TO THE PLACEMENT OF HEADS, FLUSH ALL LINES FOR A MINIMUM OF 10 MINUTES OR UNTIL LINES ARE COMPLETELY CLEAN OF DEBRIS, WHICHEVER IS LONGER.
    - 16.4. USE SCREENS IN HEADS AND ADJUST HEADS FOR PROPER COVERAGE AVOIDING EXCESS WATER ON WALLS, WALKS AND PAVING.
    - 16.5. UPON COMPLETION OF BACKFILLING, FINISH GRADING AND CONTOURING, TEST THE ENTIRE SYSTEM FOR PROPER OPERATION AND COVERAGE, INCLUDING ELECTRICALLY ACTUATING THE REMOTE CONTROL VALVES. RUN EACH ZONE UNTIL WATER BEGINS TO PUDDLE OR RUN OFF. THIS WILL ALLOW DETERMINATION OF THE NUMBER OF IRRIGATION START TIMES NECESSARY TO MEET THE WEEKLY EVAPOTRANSPIRATION REQUIREMENTS OF THE PLANTING MATERIAL IN EACH ZONE. IN SANDY SOILS NO PUDDLING WILL OCCUR. IN THESE CASES, CALCULATE THE REQUIRED RUN TIMES.



1 **PIPE SLEEVING**
1" = 1'-0" 328403.13-05

RECOMMENDED MAINTENANCE PROCEDURES

1. EVERY IRRIGATION ZONE SHOULD BE CHECKED MONTHLY AND WRITTEN REPORTS GENERATED DESCRIBING THE DATE(S) EACH ZONE WAS INSPECTED, PROBLEMS IDENTIFIED, DATE PROBLEMS WERE REPAIRED, AND A LIST OF MATERIALS USED IN THE REPAIR. AT MINIMUM, THESE INSPECTIONS SHOULD INCLUDE THE FOLLOWING TASKS:
   - 1.1. TURN ON EACH ZONE FROM THE CONTROLLER TO VERIFY AUTOMATIC OPERATION.
   - 1.2. CHECK SCHEDULES TO ENSURE THEY ARE APPROPRIATE FOR THE SEASON, PLANT AND SOIL TYPE, AND IRRIGATION METHOD. CONSULT AN I.A. CERTIFIED AUDITOR FOR METHODS USED IN DETERMINING PROPER IRRIGATION SCHEDULING REQUIREMENTS.
   - 1.3. CHECK REMOTE CONTROL VALVE TO ENSURE PROPER OPERATION.
   - 1.4. CHECK SETTING ON PRESSURE REGULATOR TO VERIFY PROPER SETTING, IF PRESENT.
   - 1.5. CHECK FLOW CONTROL AND ADJUST AS NEEDED AND ENSURE VALVE CLOSURE WITHIN 10-15 SECONDS AFTER DEACTIVATION BY CONTROLLER.
   - 1.6. CHECK FOR LEAKS IN MAINLINE, LATERAL LINES, VALVES, HEADS, ETC.
   - 1.7. CHECK ALL HEADS AS FOLLOWS:
     - 1.7.1. PROPER SET HEIGHT (TOP OF SPRINKLER IS 1" BELOW MOW HEIGHT)
     - 1.7.2. VERIFY HEAD POP-UP HEIGHT - 6" IN TURF, 12" IN GROUND COVER, AND POP-UP ON RISER IN SHRUB BEDS.
     - 1.7.3. CHECK WIPER SEAL FOR LEAKS - IF LEAKING, CLEAN HEAD AND REINSPECT. IF STILL LEAKING, REPLACE HEAD WITH THE APPROPRIATE HEAD WITH PRESSURE REGULATOR AND BUILT-IN CHECK VALVE.
     - 1.7.4. ALL NOZZLES CHECKED FOR PROPER PATTERN, CLOGGING, LEAKS, CORRECT MAKE & MODEL, ETC. - REPLACE AS NEEDED
     - 1.7.5. CHECK FOR PROPER VERTICAL ALIGNMENT AND ENSURE COVERAGE AREA IS CORRECT. MINIMIZE OVERSPRAY ONTO HARDSCAPES.
     - 1.7.6. RAISE OR LOWER RAISER HEIGHT TO ACCOMMODATE PLANT GROWTH PATTERNS AND ENSURE PROPER COVERAGE.
     - 1.7.7. VERIFY THAT POP-UP RISER RETRACTS AFTER OPERATION. IF IT DOES NOT, REPAIR/REPLACE AS NEEDED.
2. CHECK CONTROLLER GROUNDS FOR RESISTANCE (10 OHMS OR LESS) ONCE PER YEAR. SUBMIT WRITTEN REPORTS.
3. CHECK RAIN SHUT-OFF DEVICE MONTHLY TO INSURE IT FUNCTIONS PROPERLY.
4. INSPECT ALL FILTERS MONTHLY AND CLEAN/REPAIR/REPLACE AS NEEDED.
5. INSPECT BACKFLOW DEVICES BY UTILIZING A PROPERLY LICENSED BACKFLOW INSPECTOR. THIS SHOULD BE DONE ANNUALLY, AT MINIMUM.
6. INSPECT ALL VALVE BOXES TO ENSURE THEY ARE IN GOOD CONDITION AND THAT LIDS ARE IN PLACE AND LOCKED.
7. CHECK PUMP STATIONS FOR PROPER OPERATION, PRESSURES, FILTRATION, SETTINGS, ETC. (REFER TO PUMP STATION OPERATIONS MANUAL)
8. CHECK AND CLEAN INTAKE SCREENS ON ALL SUCTION LINES QUARTERLY, AT MINIMUM. CLEAN AND/OR REPAIR, AS NEEDED.
9. WINTERIZE, IF APPLICABLE, AS WEATHER IN YOUR AREA DICTATES. FOLLOW MANUFACTURER RECOMMENDATIONS AND BLOW OUT ALL LINES AND EQUIPMENT USING COMPRESSED AIR. PERFORM SEASONAL STARTUP OF SYSTEM AS PER MANUFACTURER RECOMMENDATIONS.
10. CONDUCT ADDITIONAL INSPECTIONS, MAINTENANCE TASKS, ETC. THAT ARE SPECIFIC FOR YOUR SITE.

NO.	DATE	REVISION	BY
5			
4			
3			
2			
1			

DESIGNER: ACS
DRAWN BY: EDH, SZB
CHECKER: CAB
SCALE: AS SHOWN

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CHEN·MOORE &ASSOCIATES

The Seminole Tribe of Florida

SEMINOLE VILLAGE
IRRIGATION SPECIFICATIONS

Date: 03/14/2019
Sheet: 20 of 22
Drawing: IRR-3
PROJECT NO. 300.001

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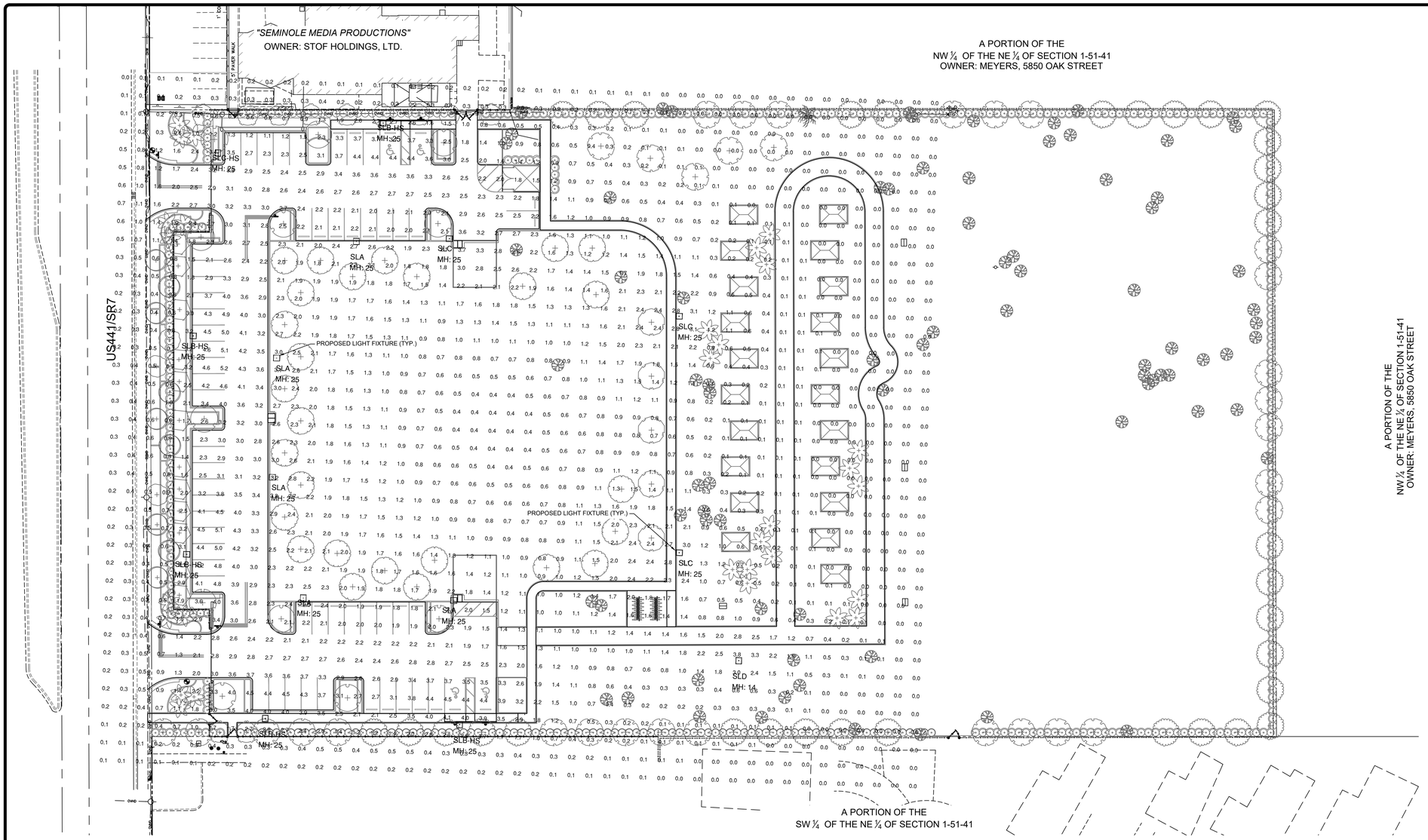

Landreth Lighting Luminaire Schedule									
Symbol	[MANUFAC]	Qty	Label	Arrangement	Description	LLF	Lum. Watts	Lum. Lumens	BUG Rating
	Lithonia Lighting	5	SLA	SINGLE	DSX0 LED P6 40K T5W MVOLT RPA DDBXD; MOUNTED @ 25' AFG ON A ROUND TAPERED DIRECT BURY ALUMINUM POLE	1.000	134	16464	B4-U0-G3
	Lithonia Lighting	5	SLB-HS	SINGLE	DSX0 LED P6 40K BLC MVOLT RPA DDBXD; MOUNTED @ 25' AFG ON A ROUND TAPERED DIRECT BURY ALUMINUM POLE	1.000	134	13088	B1-U0-G2
	Lithonia Lighting	3	SLC	SINGLE	DSX0 LED P6 40K TFTM MVOLT RPA DDBXD; MOUNTED @ 25' AFG ON A ROUND TAPERED DIRECT BURY ALUMINUM POLE	1.000	134	15964	B3-U0-G3
	Lithonia Lighting	1	SLC-HS	SINGLE	DSX0 LED P6 40K TFTM MVOLT HS RPA DDBXD; MOUNTED @ 25' AFG ON A ROUND TAPERED DIRECT BURY ALUMINUM POLE	1.000	134	12465	B2-U0-G2
	Lithonia Lighting	1	SLD	SINGLE	DSX0 LED P2 40K T2M MVOLT RPA DDBXD; MOUNTED @ 14' AFG ON A ROUND TAPERED DIRECT BURY ALUMINUM POLE	1.000	49	5994	B1-U0-G2

Landreth Lighting Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Parking Lot	Illuminance	Fc	2.90	5.2	1.1	2.64	4.73

N

30 15 0 30

1 INCH = 30 FEET

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

PLANNING BOARD REVIEW

NO.	DATE	REVISION	BY
5			
4			
3			
2			
1			

DESIGNER: ACS
DRAWN BY: EDH, SZB
CHECKER: CAB
SCALE: AS SHOWN

CRISTOBAL A. BETANCOURT
LANDSCAPE ARCHITECT
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CHEN•MOORE &ASSOCIATES

The Seminole Tribe of Florida

SEMINOLE VILLAGE

PHOTOMETRICS PLAN

Date: 03/14/2019
Sheet: 21 of 22
Drawing: PHO-1
PROJECT NO. 300.001

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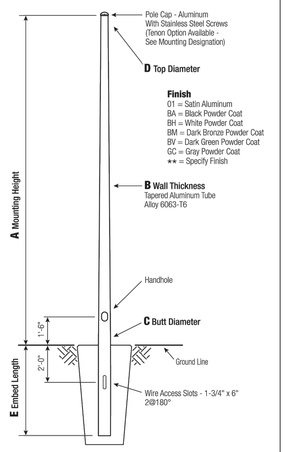
RTA — Round Tapered Aluminum Pole, No Arm — Direct Buried



WARNING: *Do not install light pole without luminaire.*

Satin Aluminum or Powder Coated Finish per Customer Specification.

A Mtg. Hgt.	B Wall Thickness	C Butt Diameter	Total Link Weight	Maximum EPA 90	100	110	120	130	Old Cat. Number	Catalog Number
14	0.125"	5	90	10.0	7.6	7.0	5.6	4.4	B7907-0314X	RTA14B5AE-**

C Butt Dia.	D Top Dia.	E Embed
5	3	3'

C and D Dimensions in Inches

Customer Name:

Project: Location:

Notes: Quantity:

RTA14B5AE - [ ]

CATALOG NUMBER — FINISH

Pole
The pole shaft will be constructed of seamless extruded tube of 6063 Aluminum Alloy per the requirements of ASTM B221. The shaft assembly shall be full-length heat treated to produce a T6 temper.

Handhole
2-1/2" x 5" Handhole with curved Lap Style Aluminum Door and two (2) SS Self-Tapping Attaching Screws. A Grounding Provision is provided as part of the handhole.

Embed Detail
Wire access will be provided 24" below ground line. Soil conditions vary by site. Foundation requirements should be determined by a qualified Structural Engineer with knowledge of jobsite soil conditions.

Vibration Damper
When determined necessary by Hapco, a Vibration Damper will be factory-installed inside the pole shaft. Customer specification of the damper is available.

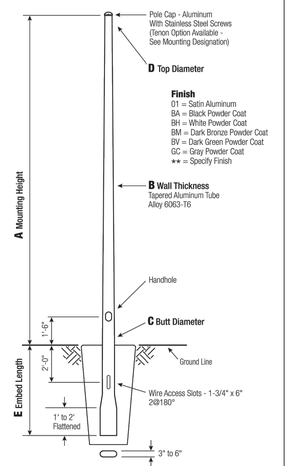
Mounting Designation
***Side Drill Mount** - For Side Drill Mount applications specify luminaire type, quantity and orientation. A luminaire drilling template must be supplied at time of order.*

***Tenon Mount - Welded or Spun** For Tenon Mount applications specify both Tenon diameter (2.375", 2.875", 3.5", etc.) and length (5", 4", etc.). Tenon style is factory option. Welded Tenon can be specified.*

EPA Notes: *Effective Projected Area (EPA) in square feet. EPA's calculated using wind velocity (mph) indicated in accordance with 2009 AASHTO LTS-5 using a 25 year design life. Maximum EPA is based on the luminaire weight shown. Increased luminaire weight may reduce the maximum EPA. If weight is exceeded, or if other design life or code is required, please consult the factory.*

hapco pole products — 26252 Hillman Highway, Abingdon, VA 24210, 800.368.7171, www.hapco.com

RTA — Round Tapered Aluminum Pole, No Arm — Direct Buried



WARNING: *Do not install light pole without luminaire.*

Satin Aluminum or Powder Coated Finish per Customer Specification.

A Mtg. Hgt.	B Wall Thickness	C Butt Diameter	Total Link Weight	Maximum EPA 90	100	110	120	130	Old Cat. Number	Catalog Number
25	0.188**	7	100	20.2	15.6	14.2	11.5	9.6	50-065	RTA25D7BE-**

C Butt Dia.	D Top Dia.	E Embed
7	4.5	5'

C and D Dimensions in Inches

Customer Name:

Project: Location:

Notes: Quantity:

RTA25D7BE - [ ]

CATALOG NUMBER — FINISH

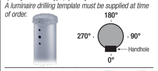
Pole
The pole shaft will be constructed of seamless extruded tube of 6063 Aluminum Alloy per the requirements of ASTM B221. The shaft assembly shall be full-length heat treated to produce a T6 temper.

Handhole
Reinforced, 4" x 6" curved Cast Aluminum Frame (Alloy 356-T6) with Aluminum Door and two (2) SS Hex Head Screws. Reinforced Frame will contain a tapped 3/8"-16NC Grounding Provision.

Embed Detail
Direct Buried Pole bottoms section on 6"+, butt diameter poles will be partially flattened into an anti-rotational, oval cross section. Wire access will be provided 24" below ground line. Soil conditions vary by site. Foundation requirements should be determined by a qualified Structural Engineer with knowledge of jobsite soil conditions.

Vibration Damper
When determined necessary by Hapco, a Vibration Damper will be factory-installed inside the pole shaft. Customer specification of the damper is available.

Mounting Designation
***Side Drill Mount** - For Side Drill Mount applications specify luminaire type, quantity and orientation. A luminaire drilling template must be supplied at time of order.*



***Tenon Mount - Welded or Spun** For Tenon Mount applications specify both Tenon diameter (2.375", 2.875", 3.5", etc.) and length (5", 4", etc.). Tenon style is factory option. Welded Tenon can be specified.*

EPA Notes: *Effective Projected Area (EPA) in square feet. EPA's calculated using wind velocity (mph) indicated in accordance with 2009 AASHTO LTS-5 using a 25 year design life. Maximum EPA is based on the luminaire weight shown. Increased luminaire weight may reduce the maximum EPA. If weight is exceeded, or if other design life or code is required, please consult the factory.*

hapco pole products — 26252 Hillman Highway, Abingdon, VA 24210, 800.368.7171, www.hapco.com

D-Series Size 0 LED Area Luminaire

Catalog Number

Notes

Type

Hit the Tab Key or mouse over the page to see all interactive elements.

Specifications

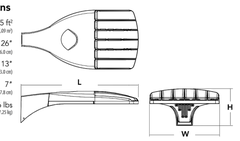
EPA: 0.95 ft² (.09 m²)

Length: 26" (66.0 cm)

Width: 13" (33.0 cm)

Height: 7" (17.8 cm)

Weight (max): 16 lbs (7.25 kg)



A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability1
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background[2]

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: Link to Roam; Link to DTL DLL

A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA DDBXD

DSX0 LED

Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX0 LED	**Forward optics** P1 P4 P7 P2 P5 P3 P6 **Rotated optics** P10[1] P12[1] P11[1] P13[1]	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted[2]	T1S Type I short T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium T5VS Type V very short T5S Type V short T5M Type V medium T5W Type V wide BLC Backlight control[2,3] LCCO Left corner cutoff[2,3] RCCO Right corner cutoff[2,3]	MVOLT 4,5 120 5,6 208 5,6 240 5,6 277 6 347 5,6,7 480 5,6,7	**Shipped included** SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor 8 RPUMBA Round pole universal mounting adaptor 8 **Shipped separately** KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish)[7]

Control options	Other options	Finish (required)
Shipped installed NLTAIR2 eight AIR generation 2 enabled[9] PER NEMA twist-lock receptacle only (control ordered separate) [11] PER5 Five-wire receptacle only (control ordered separate) [11,12] PER7 Seven-wire receptacle only (control ordered separate) [11,12] DMG 0-10V dimming extend out back of housing for external control (control ordered separate) PIR Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc [13,14] PIRH Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc [13,14] PIRHN Network, Bi-Level motion/ambient sensor[10] PIR1FC3V Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc [13,14] PIR5H1FC3V Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc [13,14] BL30 Bi-level switched dimming, 30% [3,16,17] BL50 Bi-level switched dimming, 50% [3,16,17] PNMTD03 Part night, dim till dawn [1,18] PNMT5D3 Part night, dim 5 hrs [1,18] PNMT6D3 Part night, dim 6 hrs [1,18] PNMT7D3 Part night, dim 7 hrs [1,18] FAO Field adjustable output[19]	**Shipped installed** HS House-side shield[8] SF Single fuse (120, 277, 347V) [6] DF Double fuse (208, 240, 480V) [6] L90 Left rotated optics [7] R90 Right rotated optics [7] DDL Diffused drop lens [8] **Shipped separately** BS Bird spikes[8] EGS External glare shield[7]	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [2]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [2]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [2]
DSHORT SBK U	Shorting cap [2]
DSDHS SVK U	House-side shield for 2@ LED unit [8]
DSDHS SBK U	House-side shield for 3@ LED unit [8]
DSDHS KBC U	House-side shield for 4@ LED unit [8]
DSDDDL U	Diffused drop lens (polycarbonate) [8]
PUMBA DDBXD U[6]	Square and round pole universal mounting bracket adaptor (specify finish) [8]
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) [8]

For more control options, visit DTL and ROAM online.

NOTES

1. P10, P11, P12 and P13 and rotated options L90 or R90 only available together.
2. AMBPC is not available with BLC, LCCO, RCCO, P4, P7 or P13.
3. Not available with HS or DDL.
4. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
5. Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V, 480V or MVOLT. It is only available in 120V or 277V specified.
6. Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
7. Not available in P4, P7 or P13. Not available with BL30, BL50 or PNMT options.
8. Existing drilled pole only. Available as a separate combination accessory; for retrofit use only. PUMBA (finish) U, 1.5 G vibration load rating per ANSI C136.31.
9. Must order fixture with SPA mounting. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
10. Not available with PER options.
11. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
12. If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
13. Reference Motion Sensor table on page 3.
14. Reference PER Table on page 3 for see functionality.
15. Must be ordered with NLTAIR2; for more information on nLight Air 2 visit this link.
16. Requires 120, 277, or 347V. Not in HS.
17. Not available with 347V, 480V or PNMT. For PER5 or PER7 see PER Table on page 3. Requires isolated neutral.
18. Not available with 347V, 480V, BL30 and BL50. For PER5 or PER7 see PER Table on page 3. Separate Dusk to Dawn required.
19. Not available with other dimming controls options.
20. Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
21. Must be ordered with fixture for factory pre-drilling.
22. Photocell options to be specified with PER, PER5 or PER7 option. See PER Table on page 3.
23. For retrofit use only.

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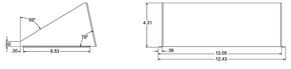
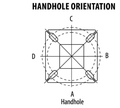
Ordering Information

External Glare Shield



Drilling

HANDHOLE ORIENTATION



Tenon Mounting Slipfitter **

Tenon O.D.	Sets A & B	Set C	Set D	Set E	Set F
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390 AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390 AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390 AST35-490

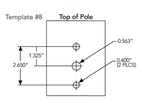
Pole drilling nomenclature: # of heads at degree from handhole (default side A)					
DM19AS	DM28AS	DM29AS	DM32AS	DM39AS	DM49AS
1 @ 90°	2 @ 180°	2 @ 90°	3 @ 120°	3 @ 90°	4 @ 90°
Side B	Side B & D	Side B & C	Round pole only	Side B, C, & D	Sides A, B, C, D

Note: Review luminaire spec sheet for specific nomenclature

Pole Top or Tenon O.D.	4.5" x 90°	4" x 90°	3.5" x 90°	3" x 90°	4.5" x 120°	4" x 120°	3.5" x 120°	3" x 120°
DSX SPA	Y	Y	Y	N	–	–	–	–
DSX RPA	Y	Y	N	N	Y	Y	Y	Y
DSX SPUMBA	Y	N	N	N	–	–	–	–
DSX RPUMBA	N	N	N	N	Y	Y	Y	N

*1 Fixtures @120 require round pole top/tenon.

Template #8

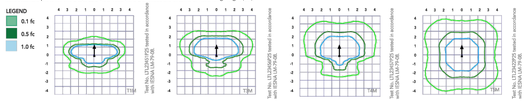


Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area Size 0 homepage.

Isofootcandle plots for the DSX0 LED 40C 1000 40K. Distances are in units of mounting height (20').

LEGEND: 0.1 fc, 0.5 fc, 1.0 fc



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Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	50°F	1.02
20°C	68°F	1.01
25°C	**77°F**	**1.00**
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	25000	50000	100000
Lumen Maintenance Factor	0.96	0.92	0.85

Electrical Load

	Performance Package	LED Count	Drive Current	Wattage	Current (A) 120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	20	530	38	0.32	0.18	0.15	0.15	0.10	0.08
	P2	20	700	49	0.41	0.23	0.20	0.19	0.14	0.11
	P3	20	1050	71	0.60	0.37	0.32	0.27	0.21	0.15
	P4	20	1400	92	0.77	0.45	0.39	0.35	0.28	0.20
	P5	40	700	89	0.74	0.43	0.38	0.34	0.26	0.20
	P6	40	1050	134	1.13	0.65	0.55	0.48	0.39	0.29
	P7	40	1300	166	1.38	0.80	0.69	0.60	0.50	0.37
Rotated Optics (Requires L90 or R90)	P10	30	530	53	0.45	0.26	0.23	0.21	0.16	0.12
	P11	30	700	72	0.60	0.35	0.30	0.27	0.20	0.16
	P12	30	1050	104	0.88	0.50	0.44	0.39	0.31	0.23
	P13	30	1300	128	1.08	0.62	0.54	0.48	0.37	0.27

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	PhotoCell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*For use with Inline Dusk to Dawn or timer.

PER Table				
Control	PER (3-wire)	PER5 (5 wire)	PER7 (7 wire)	
		Wire 4/Wire5	Wire 4/Wire5	Wire 6/Wire7
Photocontrol Only (On/Off)	✔ Recommended	▲ Alternate	▲ Alternate: Wired to dimming leads on driver	Wires Capped inside fixture
ROAM	⊘ Not one-wire	✔ Recommended	▲ Alternate: Wired to dimming leads on driver	Wires Capped inside fixture
ROAM with Motion (ROAM on/off only)	⊘ Not one-wire	▲ Alternate: Wires Capped inside fixture	▲ Alternate: Wires Capped inside fixture	Wires Capped inside fixture
Future-proof*	⊘ Not one-wire	▲ Alternate: Wired to dimming leads on driver	✔ Recommended: Wired to dimming leads on driver	Wires Capped inside fixture
Future-proof* with Motion	⊘ Not one-wire	▲ Alternate: Wires Capped inside fixture	✔ Recommended: Wires Capped inside fixture	Wires Capped inside fixture

*Future-proof ensures Ability to change controls in the future.

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NO.	DATE	REVISION	BY
5			
4			
3			
2			
1			

DESIGNER: ACS
DRAWN BY: EDH, SZB
CHECKER: CAB
SCALE: AS SHOWN

CRISTOBAL BETANCOURT, RLA
LANDSCAPE ARCHITECT
FL Reg. No. 6666641

CHEN·MOORE & ASSOCIATES
2103 Coral Way
Suite 401
Miami, FL 33145
Tel: (786)497-1500
Fax: (786) 497-2300

The Seminole Tribe of Florida

SEMINOLE VILLAGE

PHOTOMETRICS DETAILS

Date: 03/14/2019
Sheet: 22 of 22
Drawing: PHO-2
PROJECT NO. 300.001

PLANNING BOARD REVIEW

v:\Projects\2018\18-300.001 - seminole village-site pln-eng pln update\Design\CAD\Plans\300.001 PH1 Photometric Details.dwg last edited on September 13, 2018 3:59 PM by eharrison

PROPOSED ACCENT TREE (TYP.)
PROPOSED CANOPY TREE (TYP.)
DUMPSTER ENCLOSURE
CONCRETE SIDEWALK
PROPOSED PARKING
US 441/ SR7
PROPOSED RETENTION
BICYCLE RACKS
CONCRETE SIDEWALK (TYP.)
STABILIZED TURF (TYP.)
LIGHT POLE (TYP.)
ENTRY GATE
2' MULCH STRIP (TYP.)
EXISTING TREE (TYP.)
BBQ GRILL (TYP.)
PROPOSED PALM (TYP.)
PROPOSED CHICKEE HUT (TYP.)
MULCH PATH (TYP.)

GRAPHIC SCALE
0 10 20 40
1 INCH = 20 FEET

Seminole Village Site Plan Rendering
11/16/18

CHEN·MOORE &ASSOCIATES

Plant Legend

- EXISTING TREE — Live Oaks
- CANOPY TREE — Gumbo Limbo, Buttonwood, Live Oak, Mahogany, Bald Cypress
- ACCENT TREE — Cassia, Silver Buttonwood, Japanese Fern Tree, Holly
- PALM TREE — Cabbage Palm
- HEDGE — Cocoplum, Walter's Viburnum
- GREEN SHRUB AREA — Ficus, Dwarf Shillings Holly, Fakahatchee Grass
- ACCENT SHRUB AREA — Croton, Fire Bush, Muhly Grass
- ACCENT GROUND COVER — Blue Eyed Grass
- MULCH