

Board of County Commissioners • Escambia County, Florida

Paul R. Nobles/Purchasing Manager Office of Purchasing

August 1, 2018

To: All Known Prospective Bidders

ADDENDUM NUMBER 1:

Re: PD 17-18.074 Congestion Management Plan Phase II Sheriff's Parking Lot

All:

Your firm recently received an Invitation to Bid on the above-mentioned specification.

This Addendum Number 1 provides a copy of the drawings for the project that are easier to read than the copy submitted with the solicitation. These drawings, however, are not signed and sealed, but Volkert has confirmed that the drawings are equivalent to the signed, sealed version. Please see below for the full set of drawings.

This Addendum Number 1 is furnished to all known prospective bidders. Please sign and return one copy of this Addendum, with original signature, with your bid as an acknowledgement of your having received same. You may photo copy this form for your records.

Sincerely

Jeffrey Lovingood Purchasing Specialist

Acknowledgement of Receipt of Addendum:

SIGNED:

COMPANY:	

JDL

213 South Palafox Place, 2nd Floor • Pensacola, Florida 32502 P.O. Box 1591 • Pensacola, Florida 32591-1591 850.595.4980 • www.myescambia.com





INDEX OF PLANS

SHEET NO. SHEET DESCRIPTION

- 1 COVER SHEET
- 2 GENERAL NOTES/SUMMARY OF QUANTITIES
- 3 SURVEY
- 4 EXISTING CONDITIONS/DEMO PLAN
- 5 PROPOSED CONSTRUCTION PLAN
- 6 GRADING PLAN
- 7 DRAINAGE PLAN
- 8 PROPOSED TURN LANE CONSTRUCTION PLAN
- 9 RIGHT TURN LANE TYPICAL SECTION
- 10 RIGHT TURN LANE CROSS SECTIONS
- 11-17 STANDARD DETAILS
- 18-23 R-TANK DETAILS
- 24 PROPOSED LIGHTING PLAN
- 25 PROPOSED PHOTOMETRIC PLAN
- 26 PEDESTRIAN CROSSWALK LIGHTING PLAN
- 27 LIGHTING DETAILS
- 28 LANDSCAPE PLAN
- 29 LANDSCAPE DETAILS
- 30 IRRIGATION PLAN
- 31 IRRIGATION DETAILS

BOARD OF COUNTY COMMISSIONERS ESCAMBIA COUNTY, FLORIDA PUBLIC WORKS DEPARTMENT TRANSPORTATION & TRAFFIC OPERATIONS DIVISION

PLANS PROPOSED FOR PENSACOLA BEACH CONGESTION MANAGEMENT PLAN-PHASE II

CASINO BEACH PARKING LOT

PD 15-16.007/PO 161017 VOLKERT PROJECT #635501.WR

100% SUBMITTAL RELEASED FOR CONSTRUCTION MAY 2018

COMMISSIONERS

DISTRICT ONE	JEFF BERGOSH, CHAIRMAN
DISTRICT TWO	DOUG UNDERHILL
DISTRICT THREE	LUMON MAY, VICE CHAIRMAN
DISTRICT FOUR	GROVER C. ROBINSON IV
DISTRICT FIVE	STEVEN BARRY

PLANS PREPARED BY:



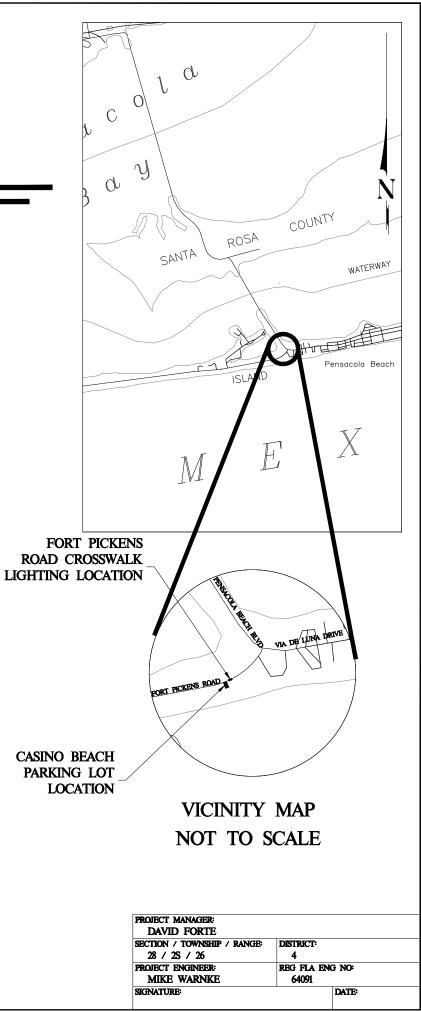
Engineers • Surveyors • Planners 6601 N. DAVIS HWY. SUITE 102 PENSACOLA, FL. 32504 Telephone (850) 477-7485 www.vokert.com

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE LATEST ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.

ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS, SHALL BE EXCLUDED AND NOT APPLICAPABLE TO ANY SPECIFICATION REFERED HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

1



GENERAL NOTES:

1. THE CONTRACTORS SHALL NOTIFY THE COUNTY DESIGN ENGINEER OR DESIGNEE 48 HOURS PRIOR TO CONSTRUCTION.

2. ALL CONDITIONS AND STIPULATIONS OF THE CONSTRUCTION PERMITS AND THE APPROVALS ISSUED BY THE ESCAMBIA COUNTY ENGINEER SHALL BE COMPLIED WITHIN EVERY DETAIL.

3. ALL ROADS DAMAGED BY CONSTRUCTION OPERATIONS ARE TO BE PATCHED OR RECONSTRUCTED AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.

4. THE CONTRACTOR SHALL TAKE STEPS NECESSARY TO PREVENT EROSION AND ANY OFF SITE SEDIMENT TRANSPORT RESULTING FROM INCREASED RUNOFF DURING CONSTRUCTION BY PROVIDING SILT FENCE AND/OR STAKED HAY BALES AS REQUIRED BY FDDT INDEX 102, THE FLORIDA STORMWATER, EROSION, AND SEDIMENT CONTROL INSPECTOR'S MANUAL, 2000 EDITION, OR AS INDICATED ON THE PLANS. ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ASSOCIATED DISTURBED AREAS ARE STABILIZED AS TO REDUCE SEDIMENT RUNOFF, UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR DESIGNEE.

5. ANY NECESSARY PERMITS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. ESCAMBIA COUNTY OR ITS DESIGNEE WILL ASSIST CONTRACTOR WITH REQUIRED PERMITS.

6. THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BIDDING AND/OR CONSTRUCTION.

7. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PRESERVE OR RELOCATE ALL BENCHMARKS (VERTICAL CONTROL) AS NEEDED DURING CONSTRUCTION ALL PUBLIC OR PRIVATE CORNER MONUMENTATION SHALL BE PROTECTED. IF A PUBLIC OR PRIVATE CORNER MONUMENTATION SHALL BE PROTECTED. IF A PUBLIC OR PRIVATE CORNER MONUMENTATION IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR DESIGNEE IMMEDIATELY. ANY ESCAMBEM COUNTY HARNIGPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A HARNIGPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS ARE DISTURBED OR DESTROYED THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF THE MONUMENTS AND HAVE THE MONUMENTS POSITION DETERMINED BY A FLORIDA LICENSED PROFESSIONAL SURVEY FOR BLUE BOOKING AND APPROVAL.

8. EXISTING DRAINAGE FEATURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.

9. THE CONTRACTOR SHALL MATCH EXISTING CONDITIONS AT THE BEGINNING AND END OF CONSTRUCTION AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.

10. ALL ROADWAY CONSTRUCTION SHALL COMPLY WITH THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS, LATEST EDITION.

11. ALL MATERIALS, TESTING AND CONSTRUCTION METHODS SHALL CONFORM TO THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS, LATEST EDITION.

12. ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS, SHALL BE EXCLUDED AND NOT APPLICABLE TO ANY SPECIFICATION REFERENDE HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.

13. EXISTING STREET AND ROAD NAME SIGNS ON THE PROJECT SHALL BE KEPT VISIBLE AT ALL TIMES FOR THE FACILITATION OF ACCESS BY EMERGENCY VEHICLES. ALL OTHER EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE TAKEN DOWN AND STOCKPILED WITHIN THE R/W LIMITS BY THE CONTRACTOR AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE. ANY EXISTING SIGNS THAT ARE TO BE RELOCATED AND ARE DAMAGED BEYOND USE BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

14. CONTRACTOR SHALL COMPLY WITH ALL F.D.E.P. AND ARMY CORP. OF ENGINEERS REQUIREMENTS.

 ONLY ACCESS TO THE ROAD R/W AS SHOWN IS GUARANTEED BY THE COUNTY. PRIVATE R/W REQUIRED BY THE CONTRACTOR TO FACILITATE CONSTRUCTION SHALL BE ACQUIRED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION OR ASSISTANCE FROM THE COUNTY.

> WESLEY BUMPERS, P.L.S. VOLKERT, INC.

3809 MOFFETT ROAD

MOBILE, AL 36618

PH(251)342-1070

16. IN THE EVENT THAT SURVEY MONUMENTATION OR REFERENCE POINTS ARE MISSING OR HAVE BEEN DESTROYED, PLEASE CONTACT:

JOE BARRET
ESCAMBIA COUNTY
3363 WEST PARK PLACE
PENSACOLA, FL 32505
PH: (850)595-3427

17. VEGETATION ON R/W AND EASEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION UNLESS OTHERWISE NOTED ON THE PLAN SHEETS. COST OF SAID RESTORATION SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS.

18. ALL TREES WITHIN LIMITS OF CONSTRUCTION SHALL BE REMOVED UNLESS OTHERWISE NOTED IN PLANS.

19. ALL COMPACTED FILL SHALL BE PLACED IN 4" LIFTS FOR HAND POWERED TAMPERS AND 8" LIFTS FOR HEAVY EQUIPMENT OPERATED TAMPERS.

20. MAINTENANCE OF TRAFFIC AS PER FDOT INDEX 600.

GENERAL NOTES CONT .:

21. THE CONTRACTOR SHALL, AT A MINIMUM, MATCH EXISTING SIGNING AND PAVEMENT MARKINGS. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE LATEST FDOT DESIGN STANDARDS. THE CONTRACTOR SHALL CONTACT THE COUNTY TRAFFIC DEPARTMENT PRIOR TO INSTALLATION OF ANY SIGNING AND PAVEMENT MARKINGS.

22. WHERE UNSUITABLE MATERIAL, AS DEFINED BY THE COUNTY SPECIFICATIONS SECTION 02300, 1:3(), IS ENCOUNTERED IN THE AREAS PROPOSED FOR PAVING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY ENGINEER OR DESIGNEE PRIOR TO ANY EXCAVATION.

23. PIPE LENGTHS SHOWN IN THE PLANS DO NOT INCLUDE THE LENGTH OF PIPE THAT MUST BE INSTALLED WITH THE MITERED END SECTION. THEREFORE, ALL PIPES LENGTHS ASSOCIATED WITH MITERED END SECTIONS SHALL BE PAID FOR IN THE UNIT COST OF THE MITERED END SECTION.

24. ALL CONTRACTORS, COUNTY REPRESENTATIVES, AND UTILITY COMPANIES ARE RESPONSIBLE FOR THEIR RESPECTIVE SURVEYING AND LAYOUT. ANY SURVEYING MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE REPLACED UPON COMPLETION OF THE WORK BY A REGISTERED LAND SURVEYOR IN THE STATE OF FLORIDA.

25. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXISTING SITE CONDITIONS, INCLUDING SOIL CONDITIONS PRIOR TO BIDDING ON THE PROJECT. A COPY OF THE GEOTECHNICAL REPORT IS INCLUDED IN THE CONTRACT DOCUMENTS FOR THE CONTRACTORS REFERENCE.

27 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE REQUIRED TESTING TO ENSURE THAT PROPER COMPACTION HAS BEEN ACHIEVED ON THE SUBGRADE, BASE AND ALL OTHER PERTINENT AREAS THAT HAVE BEEN COMPLETED. THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING AND RETESTING AS REQUIRED AND SHALL PROVIDE THE COUNTY WITH COPIES OF CERTIFIED TESTING REPORTS.

28. THE LOCATION OF ALL EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERNINED FROM THE BEST INFORMATION AVAILABLE AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY. IT IS THE CONTRACTORS RESPONSIBILITY PROR TO THE START OF ANY CONSTRUCTION ACTIVITIES TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE ANY REQUIRED ARRANGEMENTS FOR ANY RELOCATIONS OF THESE UTILITIES WITH THE OWNER OF SAID UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING UNDERGROUND UTILITIES, WHETHER SHOWN ON THE PLAN OR LOCATION BY THE UTILITY. ANY UTILITIES THAT INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL DO BROUGH TO THE ATTENTION OF THE ENGINEER. ANY FESS ASSOCIATED WITH UTILITY RELOCATIONS SHALL BE BORNE IN ACCORDANCE WITH RESPECTIVE UTILITY COMPANY STANDARDS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE RELOCATION OF ANY UTILITIES STALDE INCIDENTAL TO THE CONTRACTOR BY THE RELOCATION OF ANY UTILITIES STALDE INCIDENTAL TO THE CONTRACTOR BY THE RELOCATION OF ANY UTILITIES STALDE BE INCIDENTAL TO THE CONTRACTOR BY THE RELOCATION OF ANY UTILITIES THE DINCIDENTE.

29. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE COUNTY, ENGINEER OF RECORD, UTILITY COMPANIES AND CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

30. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A UTILITY PERMIT FROM THE COUNTY ROAD DEPARTMENT PRIOR TO COMMENCING ANY WORK WITHIN THE R/W.

31. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS AND ALL PERMITS ON THE JOB SITE AT ALL TIMES.

32. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT NO CONSTRUCTION ACTIVITIES TAKE PLACE OUTSIDE OF THE EXISTING R/W OR EASEMENTS SHOWN ON THE PLANS. ANY ON-SITE OR OFFSITE AREAS THAT ARE DISTURBED SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER AS DIRECTED BY THE ENGINEER.

33. THE CONTRACTOR SHALL BE RESPONSIBLE TO SAFETY BARRICADE ALL EXCAVATIONS AND OTHER HAZARDS.

34. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONDITIONS. THE DRAWINGS REPRESENT KNOWN STRUCTURES AND UTILITIES LOCATED WITHIN THE PROJECT AREA, THE CONTRACTOR IS CAUTIONED THAT OTHER STRUCTURES AND UTILITIES, ABOVE OR BELOW GROUND, MAY BE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION.

35. ALL MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH THE COUNTY'S LATEST CONSTRUCTION SPECIFICATIONS. ALL MATERIALS STORAGE AREAS SHALL BE CLEARLY IDENTIFIED AND SECURED BY THE CONTRACTOR. STOCKPILES ON THE ISLAND ARE LIMITED AND REQUIRE PRIOR APPROVAL.

36. ALL NEW CONCRETE FOR THE PROJECT SHALL ACHIEVE A 28 DAY STRENGTH OF 3000 PSI (MIN.), UNLESS OTHERWISE NOTED.

37. ALL TREES IN THE PROJECT AREA ARE TO REMAIN UNDAMAGED UNLESS OTHERWISE NOTED FOR REMOVAL.

38. THE CONTRACTOR IS TO REPLACE TO EXISTING CONDITION OR BETTER ANY FENCES, SPRINKLER SYSTEMS, TREES, SHRUBS, FLOWER BEDS, OR OTHER EXISTING IMPROVEMENTS IMPACTED DURING CONSTRUCTION, WHETHER DEPICTED ON THE PLANS OR NOT.

39. ALL EXISTING MAILBOXES INTERFERING WITH NEW CONSTRUCTION SHALL BE RELOCATED OR REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH POSTAL REQUIREMENTS AND IN ACCORDANCE WITH ESCAMBIA COUNTY TECHNICAL SPECIFICATION, FOOT DESIGN STANDARDS AND UNITED POSTAL REQUIREMENTS. ALL EXISTING BRICK MAILBOXES WITHIN LIMITS OF CONSTRUCTION OR COUNTY RIGHT OF WAY SHALL BE REMOVED AND PLACED ON THE PROPERTY LINE OF THE OWNER. CONTRACTOR SHALL REPLACE EXISTING BRICK MAILBOX WITH APPROVED PLASTIC BREAK AWAY MAILBOX.

GENERAL NOTES CONT .:

40. DAMAGE TO ANY EXISTING ROADS DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR PRIOR TO FINAL "AS-BUILT" SIGN-OFF FROM THE COUNTY AT NO ADDITIONAL COST TO THE COUNTY.

41. SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ORDER, SHIPMENT, OR INSTALLATION.

42. THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS DURING CONSTRUCTION WHICH SHOW "AS-BUILT" CONDITIONS OR ALL WORK, RECORD DRAWINGS SHALL BE PROVIDED TO THE ENGINEER PRIOR TO REQUESTING A FINAL INSPECTION.

43. THE CONTRACTOR SHALL SCHEDULE WITH THE COUNTY A FINAL INSPECTION UPON COMPLETION OF ALL WORK AND ANY INTERMEDIATE INSPECTIONS AT 850-595-3472. AS-BUILT CERTIFICATION IS REQUIRED PRIOR TO REQUEST FOR FINAL INSPECTION.

44. ALL ASPECTS OF STORMWATER/DRAINAGE AND/OR TRANSPORTATION COMPONENTS SHALL BE COMPLETED PRIOR TO REQUESTING A FINAL INSPECTION.

45. NO DEVIATIONS OR REVISION FROM THE PLANS BY THE CONTRACTOR SHALL BE ALLOWED WITHOUT PRIOR APPROVAL FROM BOTH THE ENGINEER OF RECORD AND ESCAMBIA COUNTY. ANY DEVIATION MAY RESULT IN DELAYS IN THE COUNTY'S ACCEPTANCE OF IMPROVEMENTS.

46. IF ARCHAELOGICAL MATERIAL/PREHISTORIC ARTIFACTS SUCH AS POTTERY OR CERAMICS, STONE TOOLS OR METAL IMPLEMENTS, OR ANY OTHER PHYSICAL REMAINS THAT COULD BE ASSOCIATED WITH NATIVE AMERICAN CULTURES, OR EARLY COLONIAL OR AMERICAN SETTLEMENT ARE ENCOUNTERED AT ANY TIME, THE PROJECT SHOULD CEASE ALL ACTIVITIES INVOLVING SUBSURFACE DISTURBANCE IN THE IMMEDIATE VICINITY OF SUCH DISCOVERIES. THE APPLICANT/RECIPIENT, OR OTHER DESIGNE, SHOULD CONTACT THE FLORIDA DEPARTMENT OF STATE, DIVISION OF HISTORICAL RESOURCES, THE STATE HISTORIC PRESERVATION OFFICER (SHPO) AND THE DSH/FEMA REGION IV ENVIRONMENTAL OFFICER AND FOEM STATE ENVIRONMENTAL LIAISON OFFICER FOR FURTHER GUIDANCE. PROJECT ACTIVITIES SHOULD NOT RESUME WITHOUT VERBAL AND/OR WRITTEN AUTHORIZATION FROM THE THE DIVISION OF HISTORICAL RESOURCES.

47. IN THE EVENT THAT UNMARKED HUMAN REMAINS ARE ENCOUNTERED DURING PERMITTING ACTIVITIES, ALL WORK MUST STOP IMMEDIATELY AND THE PROPER AUTHORITIES NOTIFIED IN ACCORDANCE WITH SECTION 872.05, FLORIDA STATUTE.

 ALL CONSTRUCTION SHALL MEET ALL REQUIREMENTS CONCERNING ADA STANDARDS, LATEST EDITION OF DESIGN STANDARDS AND PUBLIC RIGHTS-OF-WAYS ACCESSIBILITY GUIDELINES (PROWAG).

49. ALL MATERIALS BROUGHT ONTO PENSACOLA BEACH MUST MEET THE BARRIER ISLAND SAND PROVISIONS OF THE LAND DEVELOPMENT CODE AND DESIGN MANUAL.

UTILITY NOTES

1. THE LOCATION SHOWN FOR EXISTING UNDERGROUND UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR AGREES TO BE COMPLETELY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT OCCUR BY HIS FALURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES.

2. UTILITY OWNERS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION SO THAT THE UTILITY OWNER CAN SPOT VERIFY AND/OR EXPOSE THEIR UTILITIES. KNOWN UTILITIES OWNERS INCLUDE:

ELECTRIC - GULF POWER

MILTON, FL. 32570 PH: (850) 549-1031

MR. CHAD SWAILS 5120 DOGWOOD DRIVE

CABLE - COX CABLE

2421 EXECUTIVE PLAZA

PENSACOLA, FL 32504

SUNSHINE STATE ONE-CALL

7200 LAKE ELLENOR DRIVE, SUITE 200

ORLANDO, FL. 32809 PH: (800) 432-4770

MR. TROY YOUNG

PH: (850)232-5044

SEWERWATER - EMERALD COAST UTILITY AUTHORITY MR. BRANDON KNIGHT P.O. BOX 15311 PENSACOLA, FL. 32514 PH: (850) 698-4609
NATURAL GAS - ENERGY SERVICES OF PENSACOLA MR. CLINT SHEVAT

1625 ATWOOD DRIVE PENSACOLA, FL. 32514 PH: (850) 791-5285

TELEPHONE - AT&T FLORIDA MR. BARRY POWELL 605 WEST GARDEN STREET PENSACOLA, FL. 32501 PH: (850) 436-1483

TRAFFIC DEPARTMENT - ESCAMBIA COUNTY PUBLIC WORKS MS. JOHNNY PETTIGREW 3363 WEST PARK PLACE PENSACOLA, FL. 32505 PH:(850) 595-3404

 AT&T FLORIDA WILL COMPLETE ALL WORK DURING THE HOURS OF 7:30 AM - 4:30 PM, MONDAY THRU FRIDAY, NO NIGHT OR WEEKEND WORK.

4. ALL CABLE DAMAGE MUST BE REPORTED TO THE ATT FLORIDA REPAIR SERVICE DEPARTMENT AT 611 FROM A LAND LINE OR 877-737-2478 IF USING A CELL PHONE.

5. CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.

6. UTILITIES TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. NECESSARY REPAIRS SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS AND SHALL BE TO THE SATISFACTION OF UTILITY OWNERS.

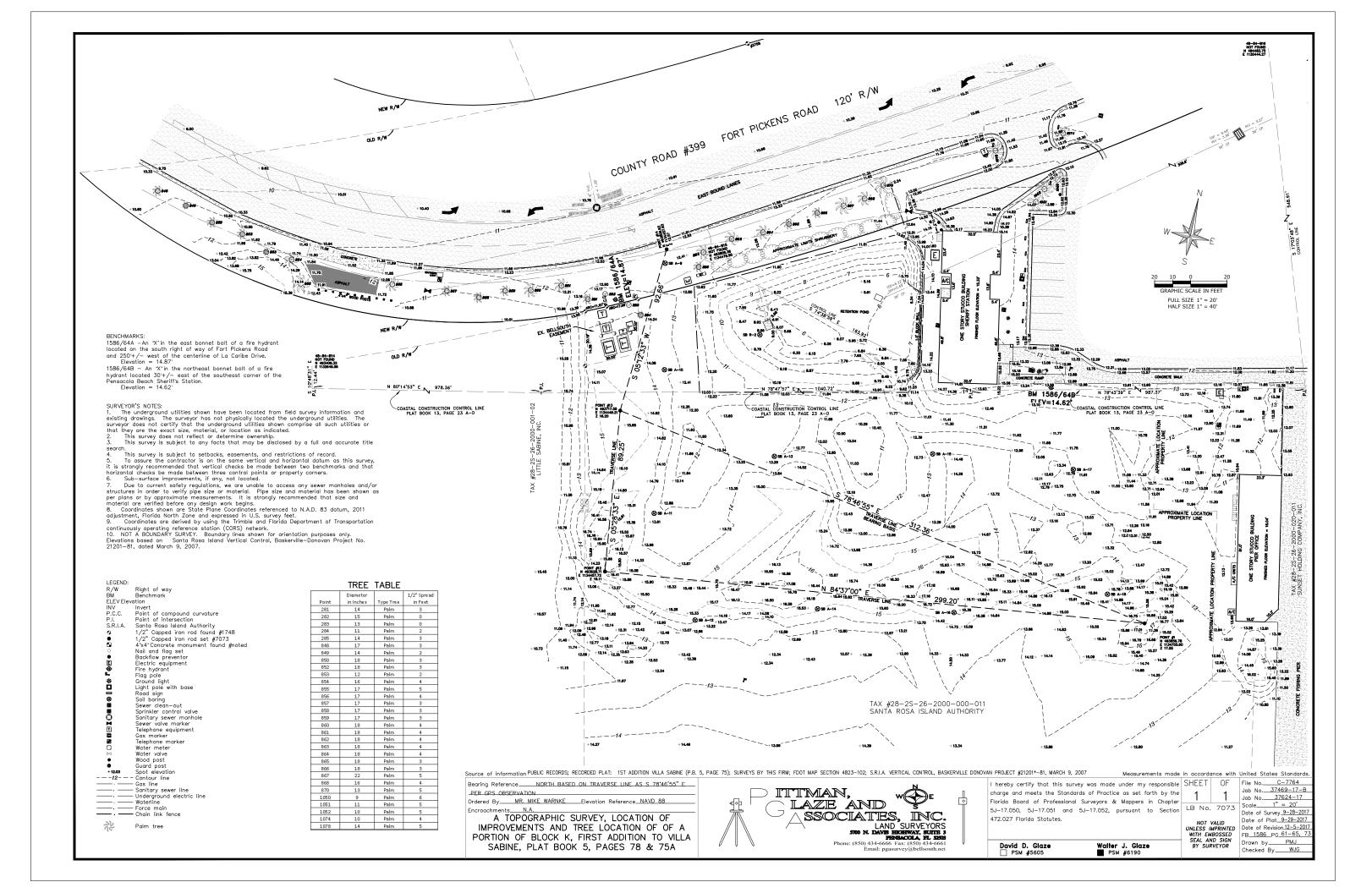
7. ADEQUATE PROVISIONS SHALL BE MADE FOR THE FLOW OF SEWERS, DRAINS, WATER COURSES AND OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION.

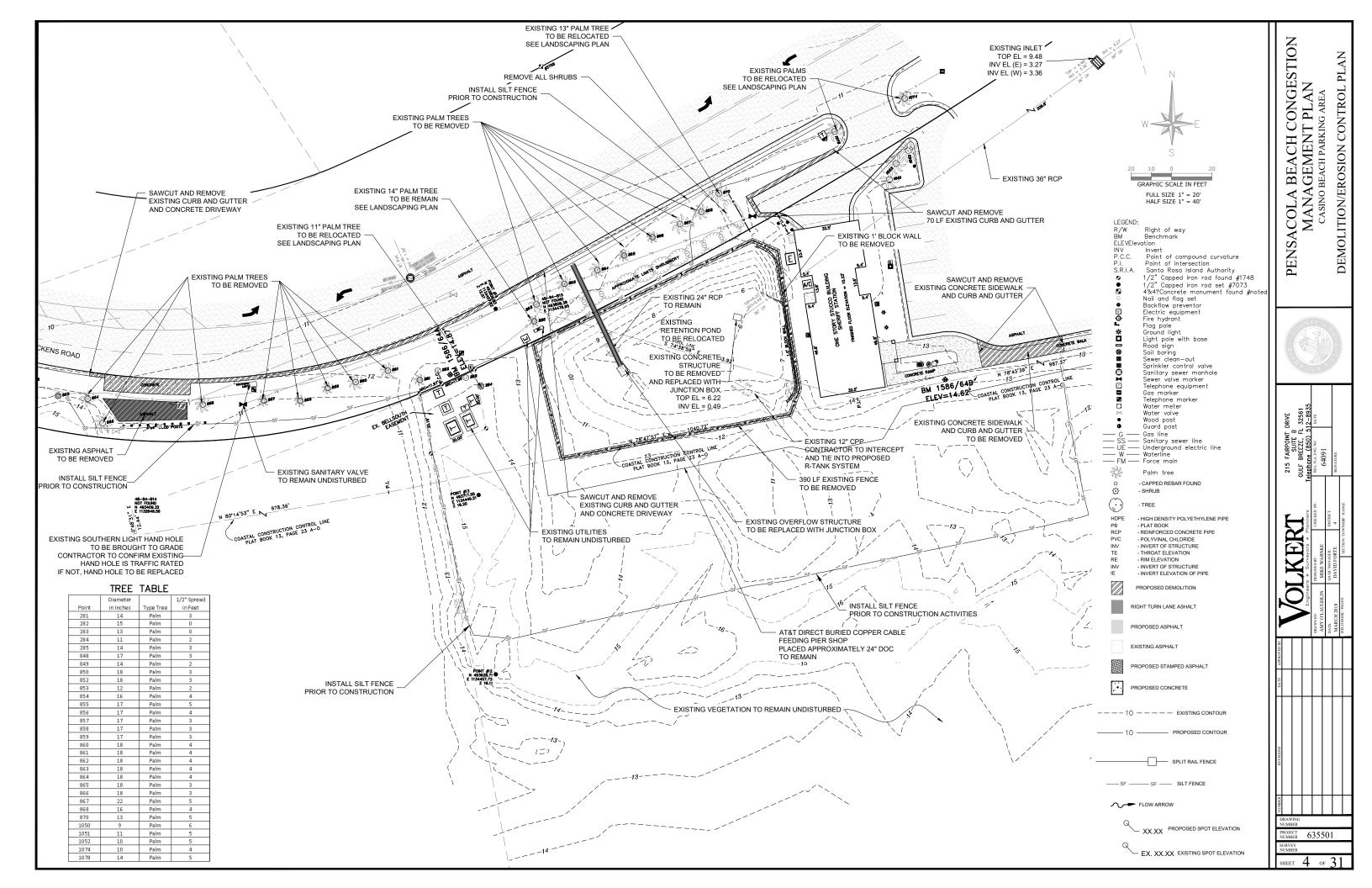
8. THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER IMPROVEMENTS SHOWN AND NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR REPAIRS OF UTILITIES AND OTHER IMPROVEMENTS(SHOWN AND UN-SHOWN) DAMAGED DURING CONSTRUCTION AND SHALL MAINTAIN SUFFICIENT PROTECTION FOR ALL UTILITIES TO REMAIN. THE CONTRACTOR SHALL SUPPORT ALL EXISTING UTILITIES AS REQUIRED FOR THE INSTALLATION OF THE PROPOSED IMPROVEMENTS. ALL COSTS ASSOCIATED WITH PROTECTIONG, SUPPORTING, REPAIRING, AND OTHER ACTIVITIES RESULTING FROM CONTRACTOR DAMAGE TO THE UTILITIES OR PROTECTION OF THE UTILITIES SHALL BE THE CONTRACTORS RESPONSIBILITY AT NO ADDITIONAL COST TO THE COUNTY.

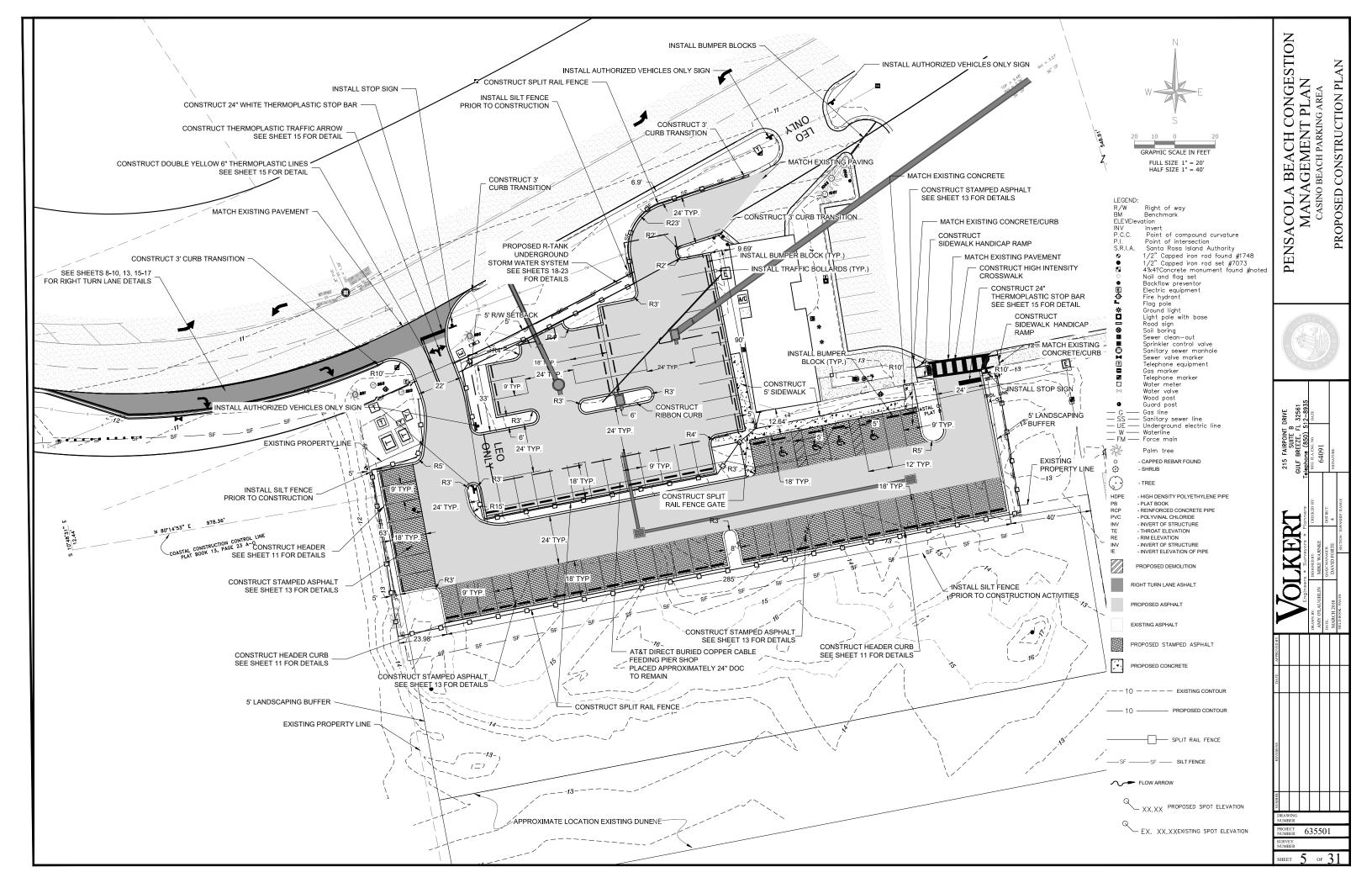
Item	DESCRIPTION	UNIT	BID QUANITY
1	Performance Bond	LS	1
2	Mobilization	LS	1
3	Clearing and Grubbing, per County Specifications 2230	AC	1
4	Remove Shrubs	EA	12
5	Remove Palm Trees	EA	15
6	Earthwork Excavate, Haul, and Install, On-site/Off-site	CY	1800
7	Earthwork Establishing Grade, County Specs 2300	SY	3674
8	Remove and Replace Unsuitable Materials	CY	100
9	Final grading and seal rolling prior to paving	SY	3674
10 11	1" County Spec 2500 Type SP 12.5 Asphalt Concrete Surface 1 1/2" County Spec 2500 Type SP 12.5 Asphalt Concrete Surface	SY SY	239 3273
11	2" County Spec 2500 Type SP 12.5 Asphalt Concrete Surface 2" County Spec 2500 Type SP 12.5 Asphalt	SY	239
13	Remove Existing Asphalt, 2" Average Depth	SY	38
14	12" Stabilized Subgrade, County Spec 2300	SY	3674
15	6" Bahamian base	SY	3405
16	8" Bahamian base	SY	270
17	6" Pipe Bollards, Per County Detail	EA	2
18	Thermoplastic 6" Solid Stripe, White or Yellow	LF	1479
19	Thermoplastic 6" Double Solid Stripe, White or Yellow	LF	25
20	Thermoplastic Stop Bar	LF	24
21	Thermoplastic Directional Arrow, Single Head (Turn Left/ Right) 16sf	EA	2
22	Thermoplastic Directional Arrow, Double Head (Straight Ahead W/Turn) 27sf	EA	1
23	Thermoplastic High Intensity Pedestrian Crosswalk	LF	25
24 25	Thermoplastic Handicap Parking Space with Symbol Thermoplastic "LEO ONLY" Pavement Message	EA	4
25	Stop Sign, R1-1	EA	2
20	Authorized Vehicles Only Sign	EA	4
28	Develop and provide an approved MOT traffic safety plan both map type and written type by a Certified Work Zone Safety Traffic Supervisor	EA	1
29	MOT	LS	1
30	FDOT Type F Curb And Gutter	LF	194
31	Concrete Bumper Guards	EA	83
32	Header Curb, Per County Detail	LF	1471
33	1' Ribbon Curb, Per County Detail	LF	82
34	5' Fiber Reinforced Concrete Sidewalk	LF	170
35	Construct Curb Ramp (Approved Mat, Color included)	EA	4
36	Saw cut Existing Concrete	LF	33
37 38	Remove Existing Concrete, 6" thick Remove Curb	SY LF	65 350
38	Remove Curb Remove Ex. 1' Wide Block Wall		85
40	Misc. Concrete	CY	5
41	Street Print (Offset Brick, Terracotta or Brick color)	SY	805
42	Ditch Bottom Inlet, Type F	EA	3
43	Storm Manhole	EA	2
44	Remove Ditch Bottom Inlet (including top and bottom)	EA	2
45	Tie to Existing Inlets, Pipe, Manhole, R-Tank System	EA	6
46	18" RCP Pipe	LF	150
47 48	24" RCP Pipe	LF LS	2
48	R-Tank Stormwater System R- Tank Stormwater System Installation	LS	1
50	Silt Fence Type IV	LF	1200
51	Construct Stabilized Gravel Construction Entrance	EA	1
52	NPDES NOI and NOT Permit, including SWPPP and monitoring (for use only with disturbed areas over 1.0 Acre)	EA	1
53	Wood Split Rail Fence	LF	910
54	Split Rail Fence Gate	EA	1
55	Remove Existing Chain Link Fence	LF	390
56	Jobsite Board for posting project information, permits, etc.	EA	1
57	Lighting	LS	1
58	Landscaping & irrigation	LS	1

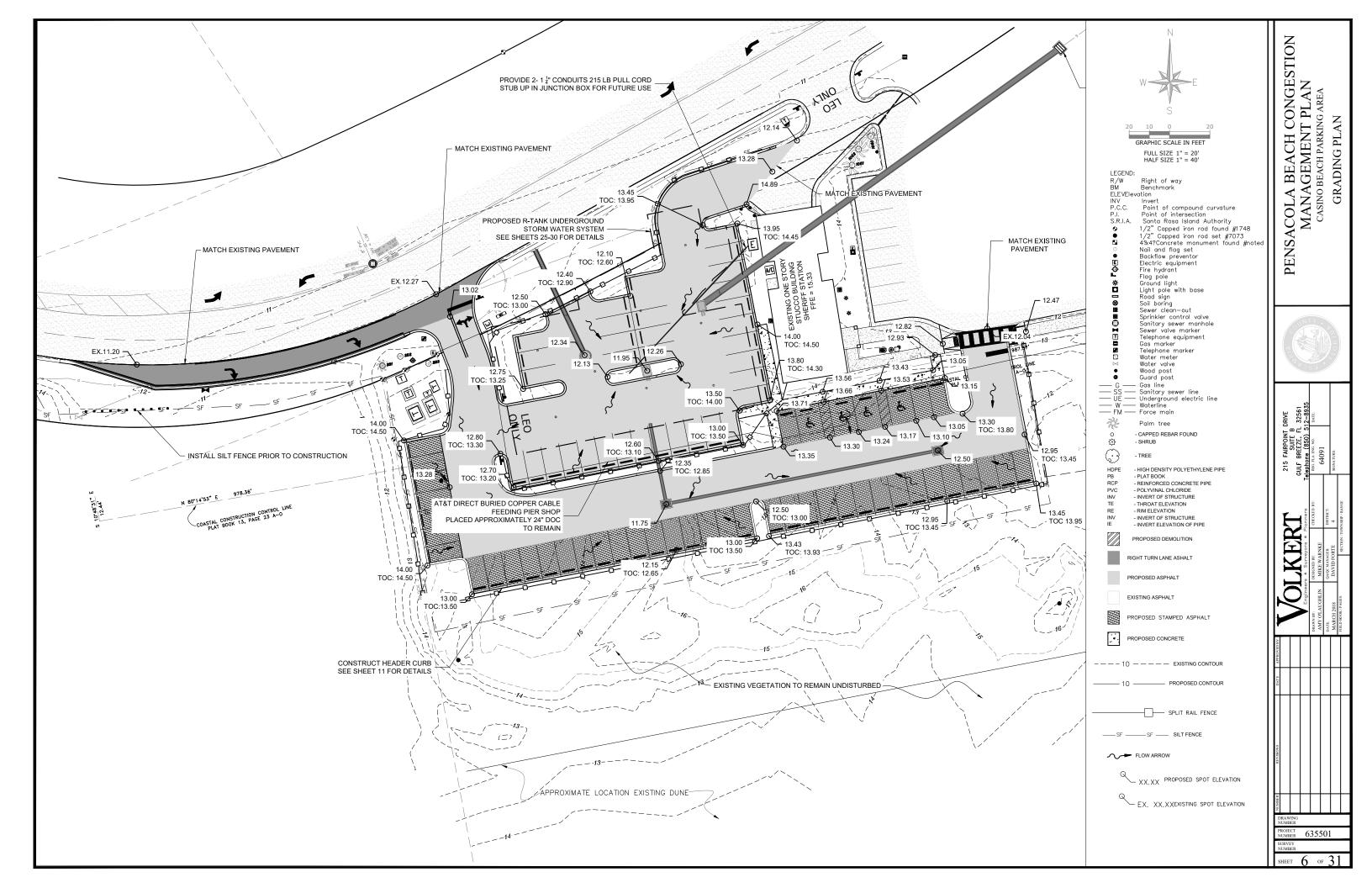
GENE

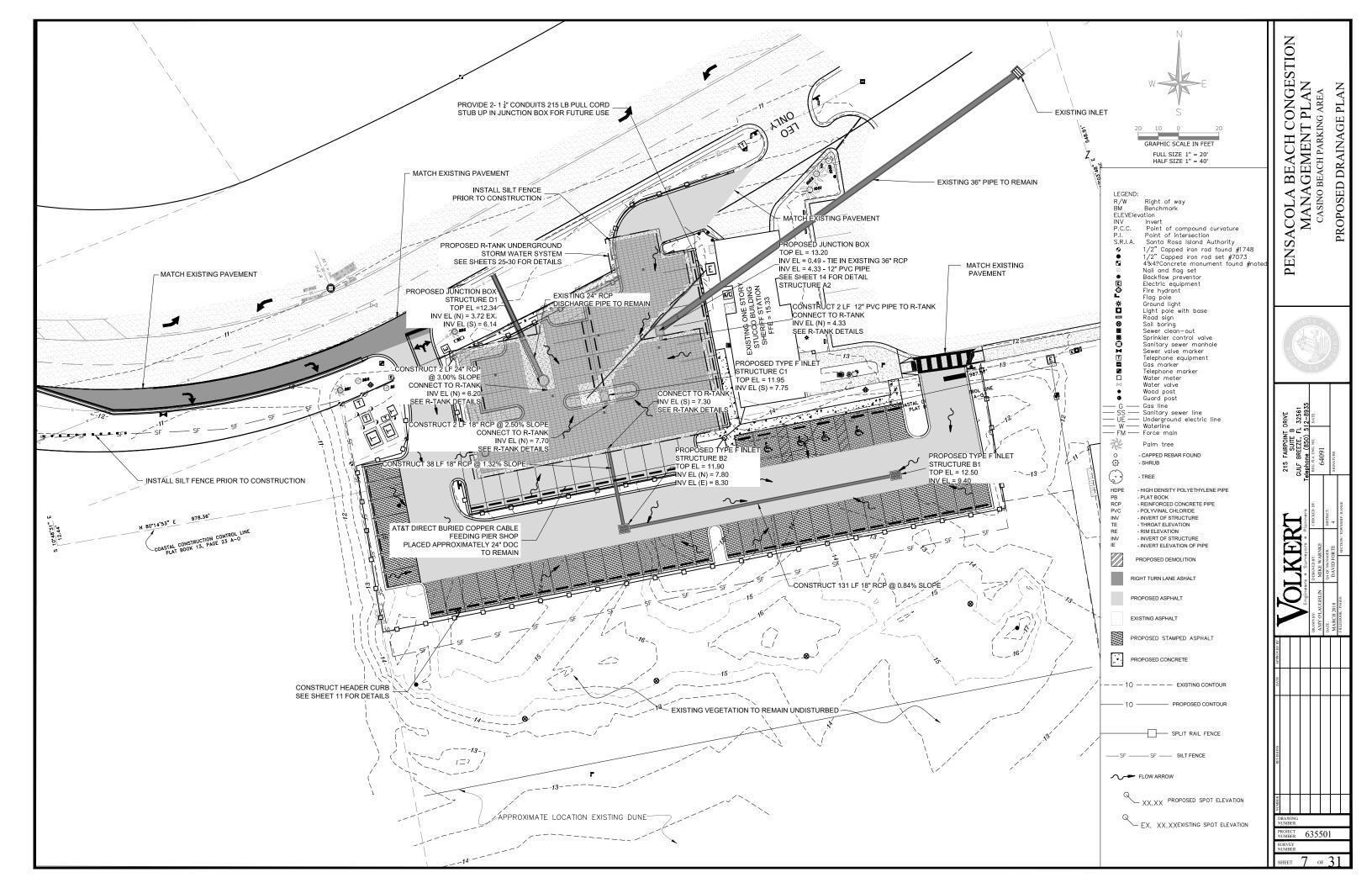


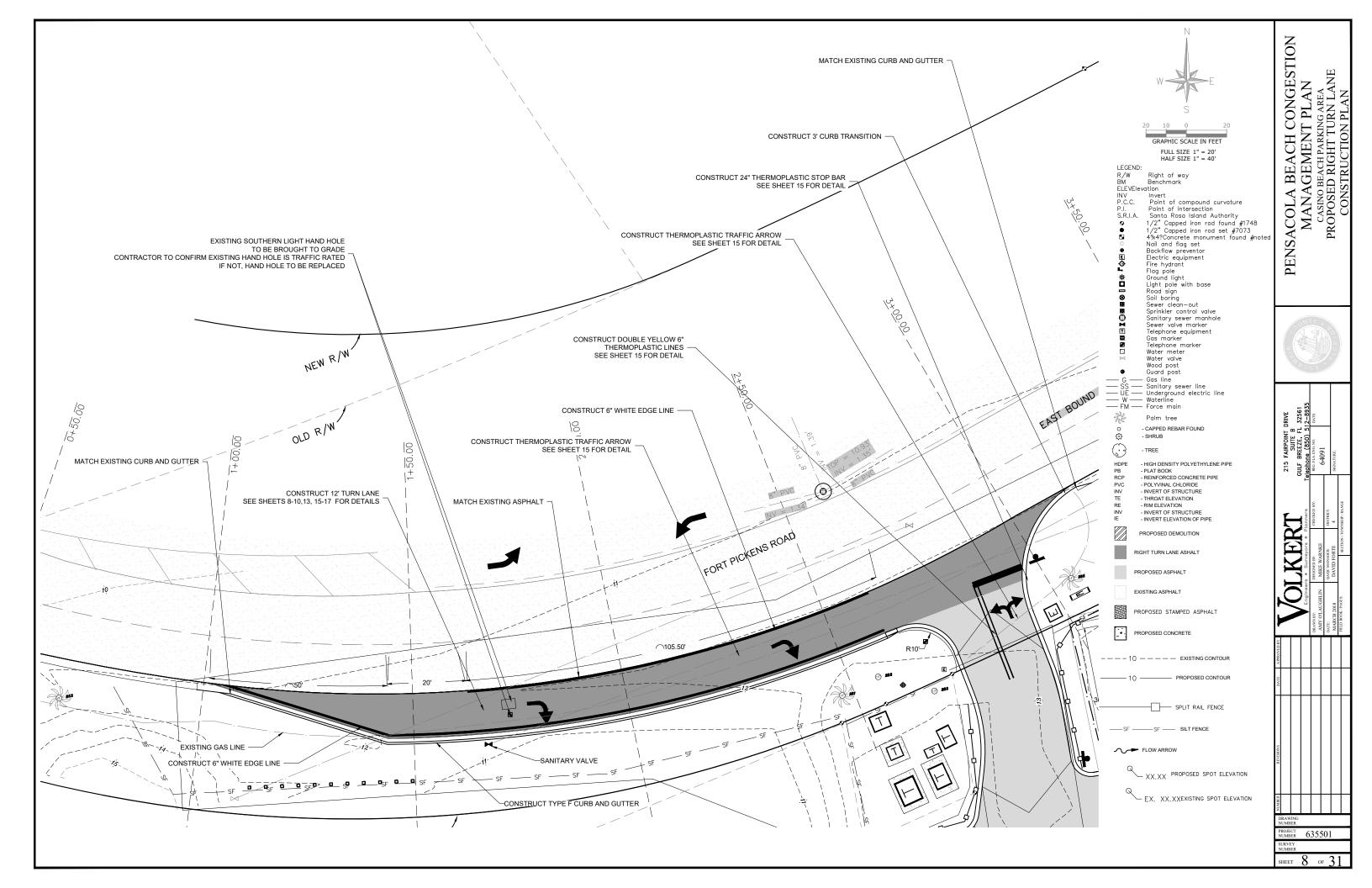








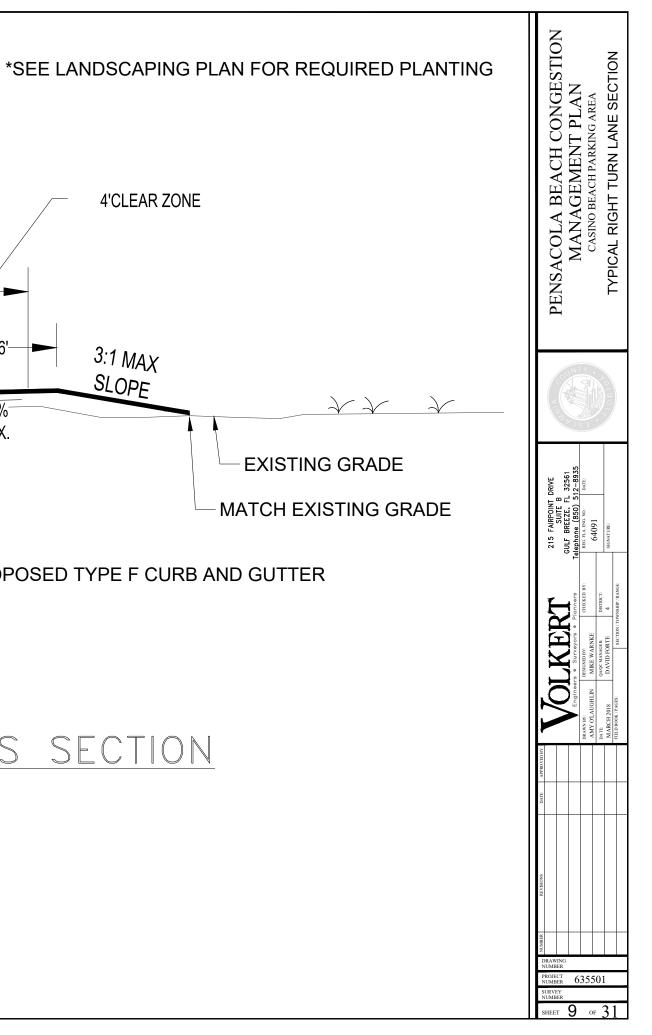


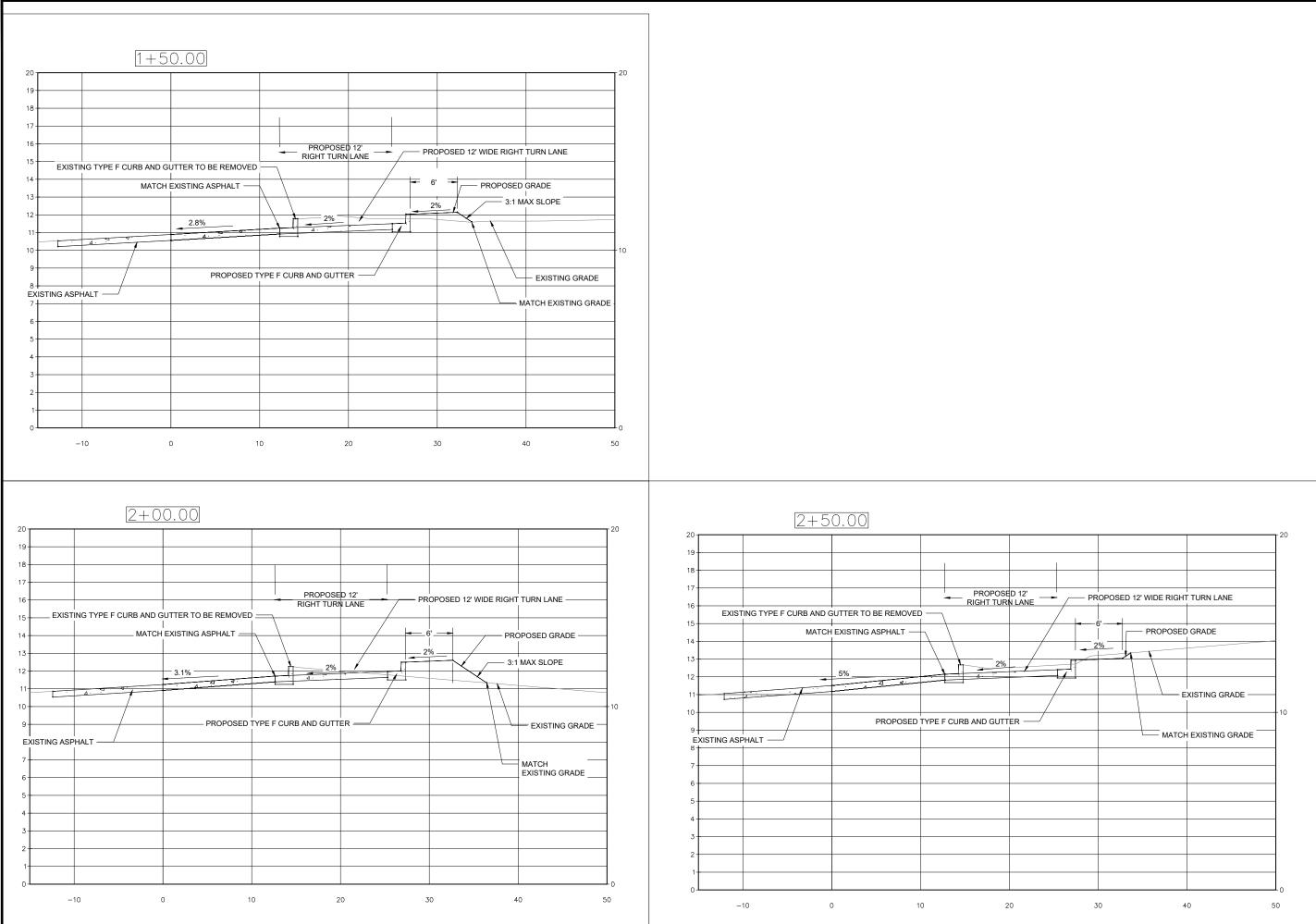


EXISTING TRAVEL LANE PROPOSED 12' WIDE VARIES **RIGHT TURN LANE** 4'CLEAR ZONE 3:1 MAX MATCH EXIST. ASPHALT SLOPE 2.0% 2.0% EXIST. ASPHALT -VARIES MAX. EXISTING TYPE F CURB TO BE REMOVED PROPOSED TYPE F CURB AND GUTTER SEE TYP. ASPHALT SECTION FOR RIGHT TURN LANE

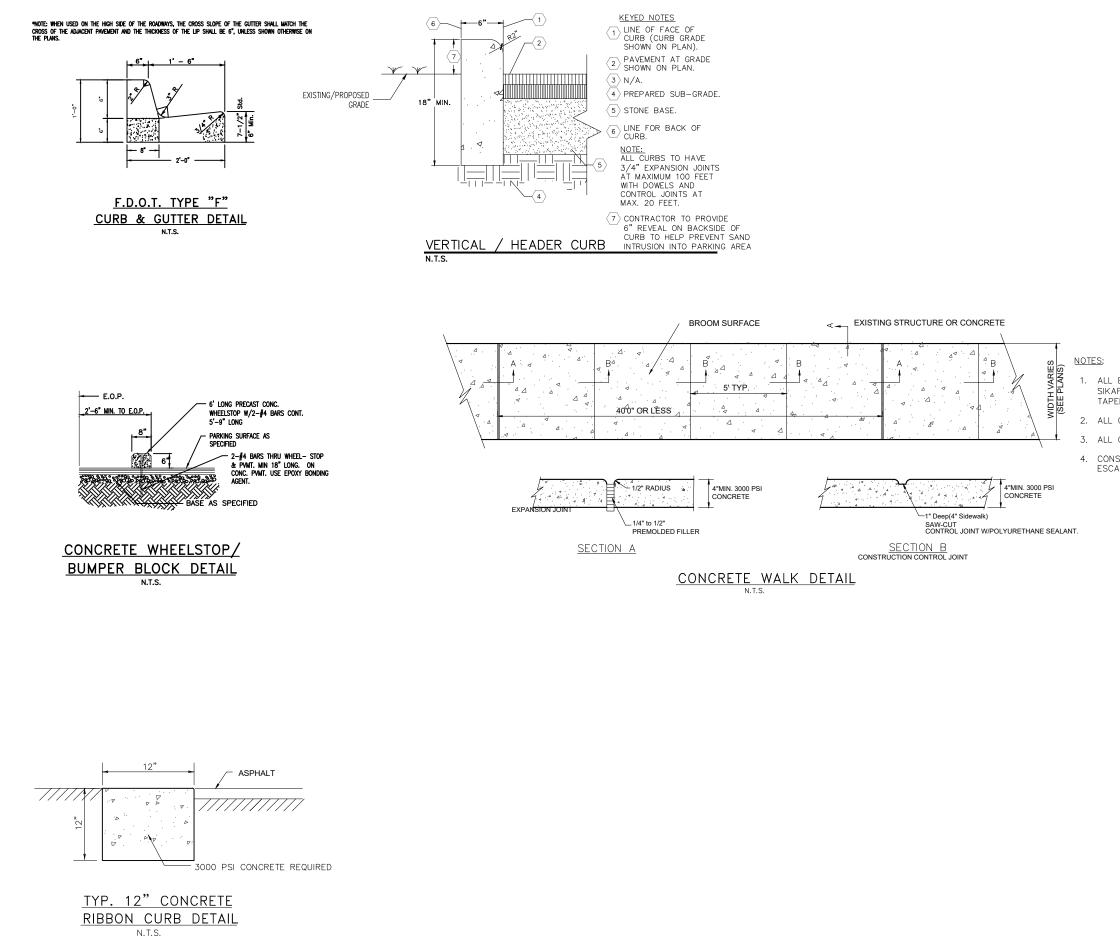
RIGHT TURN LANE TYPICAL CROSS SECTION

N.T.S.





	PENSACOLA BEACH CONGESTION MANAGEMENT PLAN casino beach parking area TURN LANE CROSS SECTIONS
	215 FARPOINT DRIVE SUITE B GULF REZEL FL 32561 Telephone (R2E) FL 32561 Next ICA to 40.50, DATE 64.091 SUSATURE
20 	COLKERR Fragmars = Survyors = Planners Fragmars = Survyors = Planners (GHLN MER wARKE 8 00.00 AC MANGE 00.00 AC MANGE 0
	DRAWN BY: AMY O'LAIL DATE: MARCH 201 FELD BOOK /P
G GRADE 10	AN CUYONNAA. TIAA
	HIV NUME
0	DRAWING NUMBER PROJECT 635501
50	SURVEY NUMBER SHEET 10 OF 31

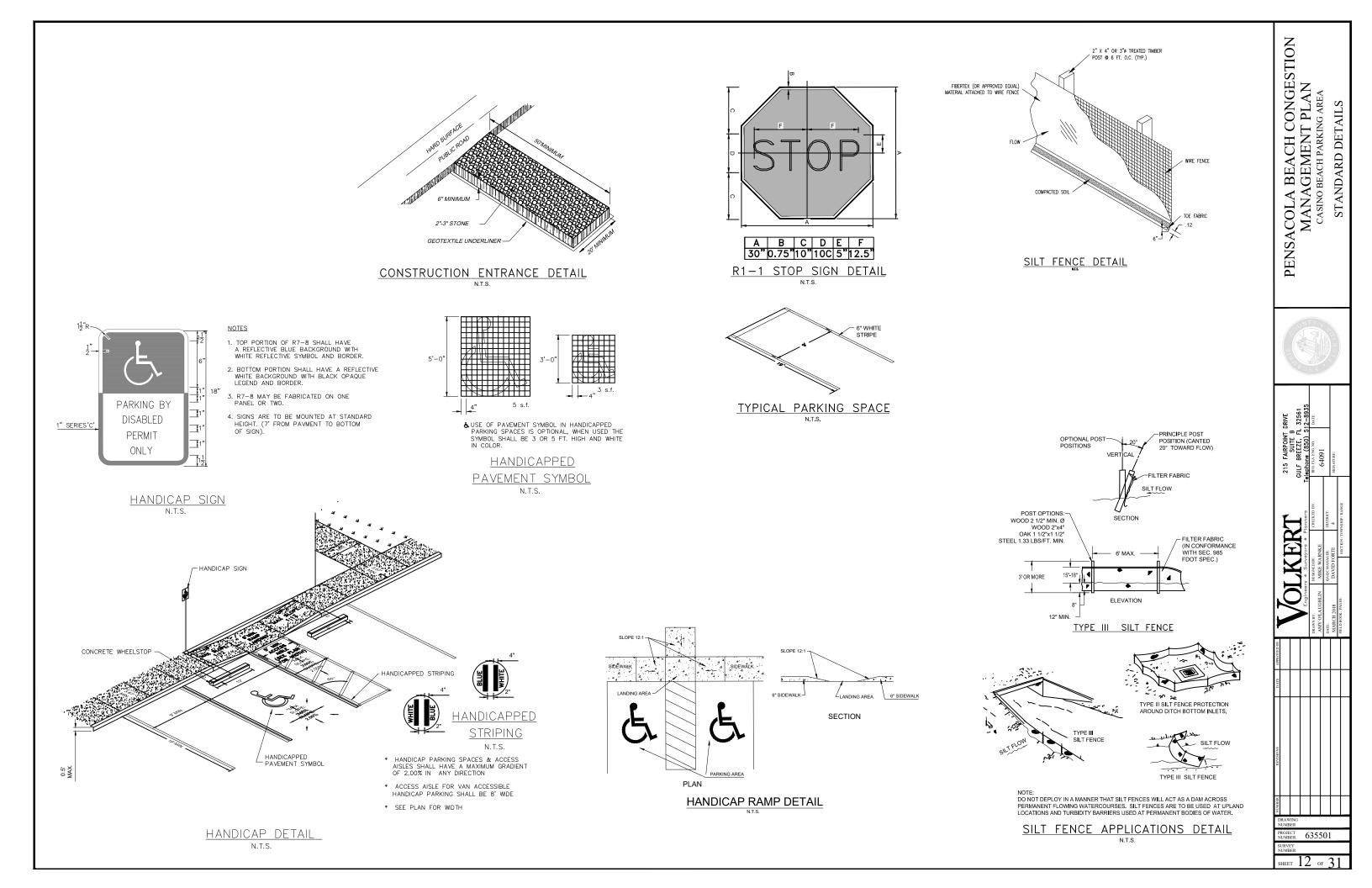


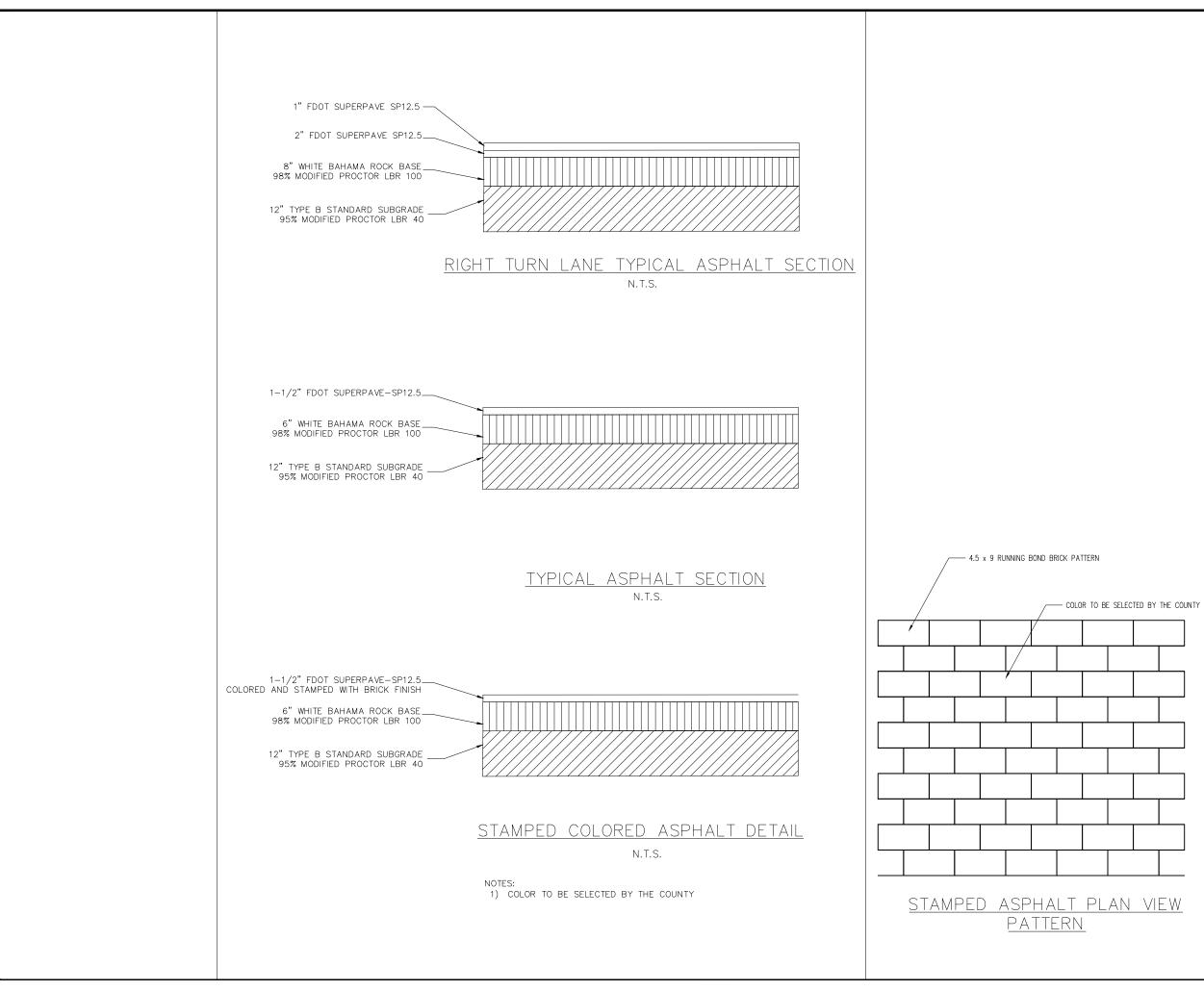
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 ALL EXPANSION /CONTROL JOINTS SHALL BE FILLED WITH SIKAFLEX-1C SL (OR APPROVED EQUAL) SEALANT. JOINTS SHALL BE TAPED PRIOR TO SEALING TO ENSURE A CLEAN EDGE.

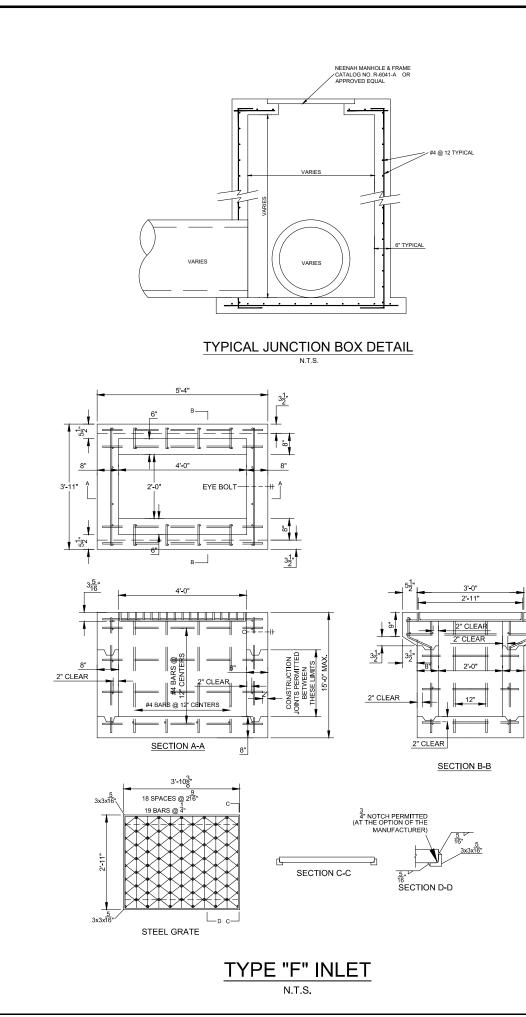
ALL CONCRETE WALKING SURFACES SHALL BE A FINE BROOM FINISH.
 ALL CONCRETE WALKWAYS SHALL HAVE FIBER MESH REINFORCEMENT.

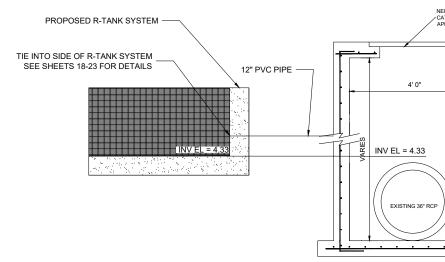
4. CONSTRUCTION AND EXPANSION JOINTS ARE REQUIRED AS PER ESCAMBIA COUNTY STANDARD SPECIFICATIONS LATEST EDITION.



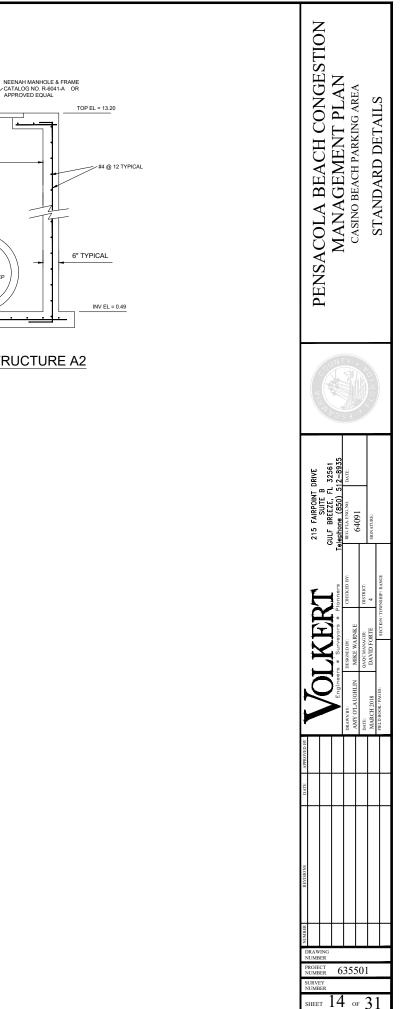


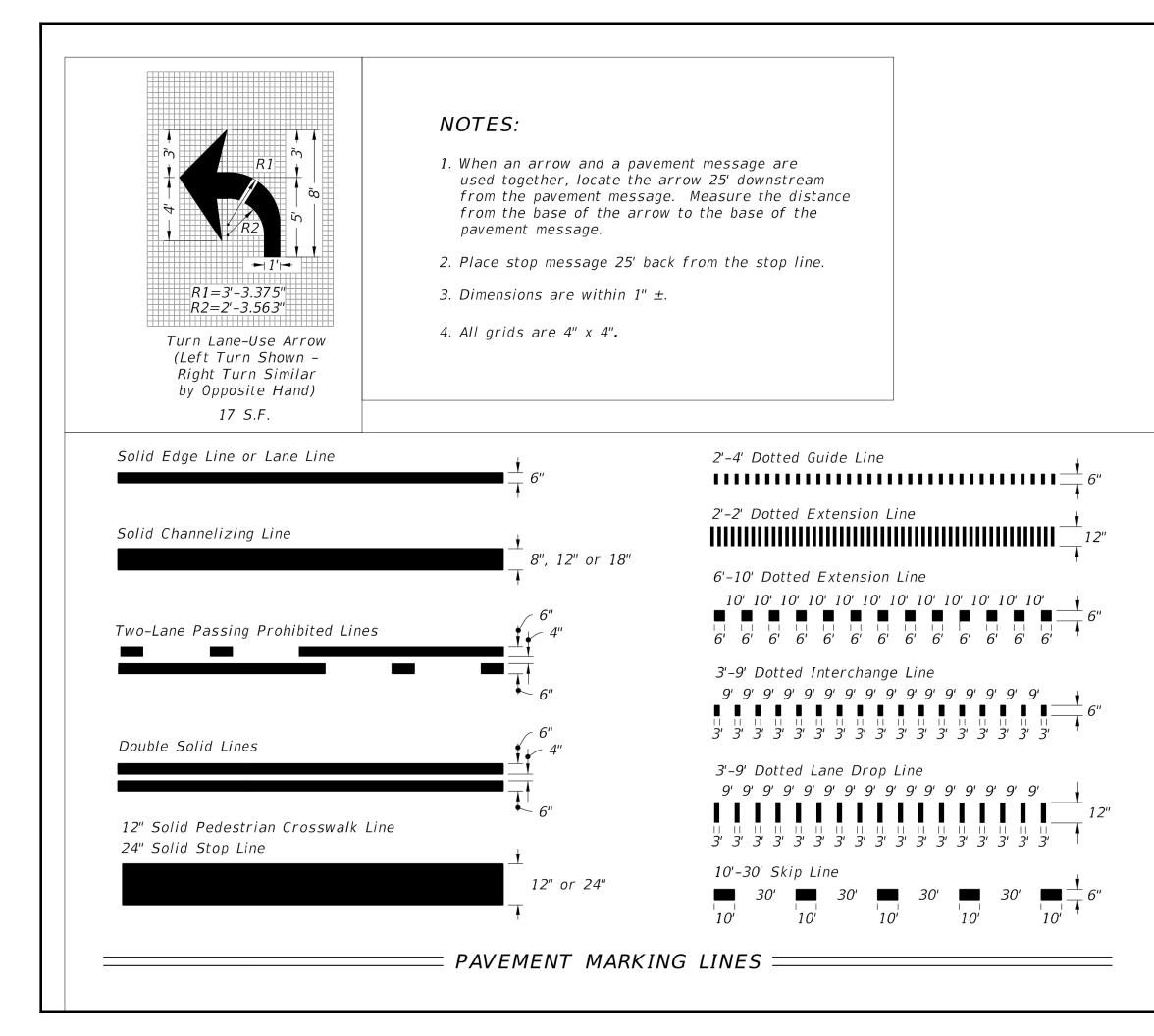
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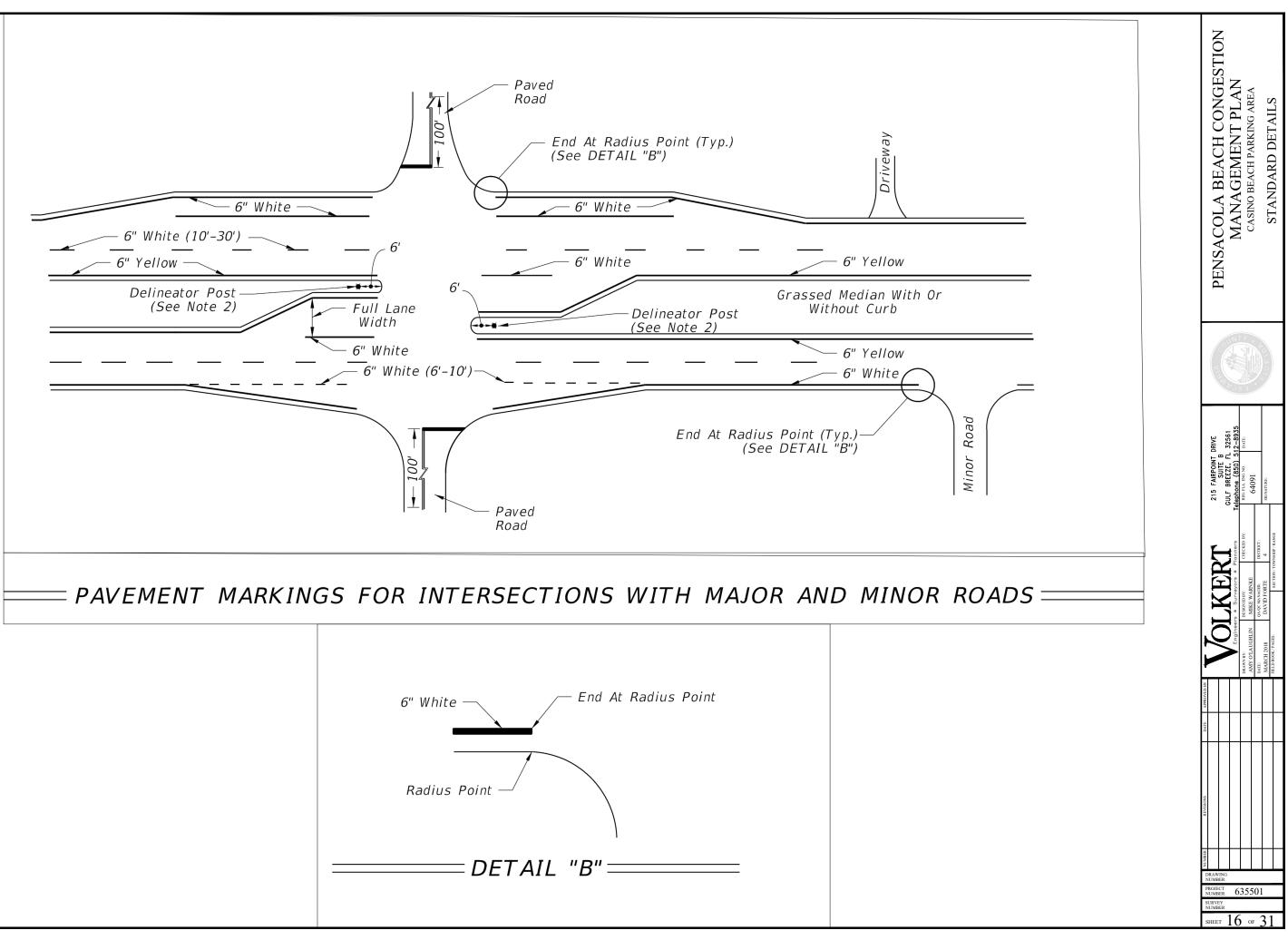


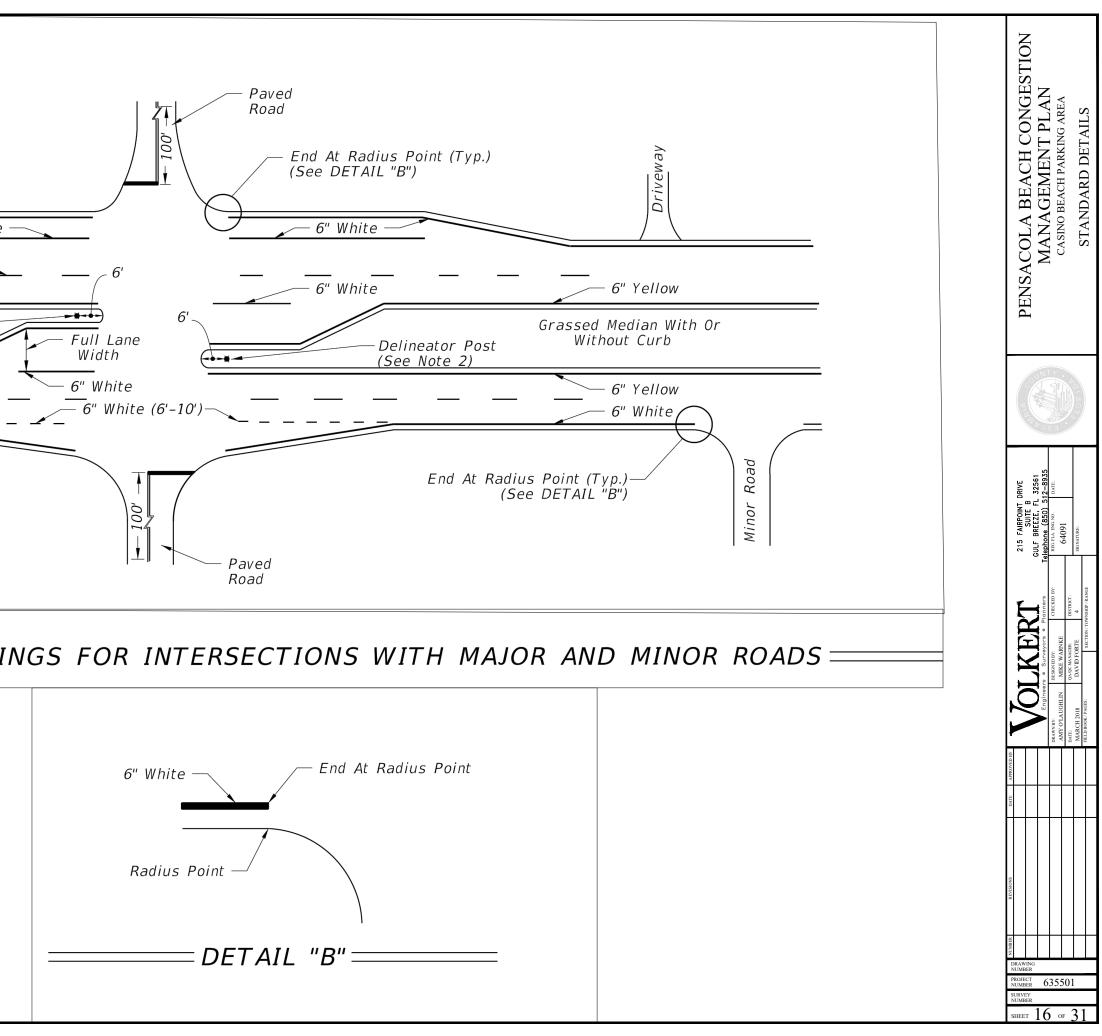


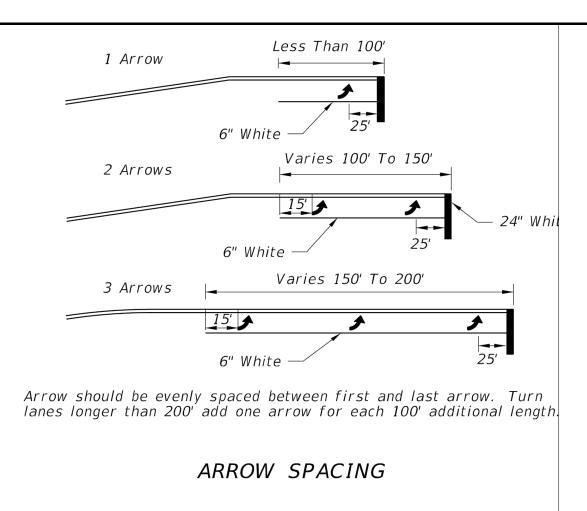




PENSACOLA RFACH CONGESTION	MANAGEMENT PLAN casino beach parking area STANDARD DETAILS
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215 FAIRPOINT DRIVE	CULF BREEXE, FL 32561 Telephone (850) 512–8935 Hat JAA NAA, NO. DATE 64091 SEMATINE:
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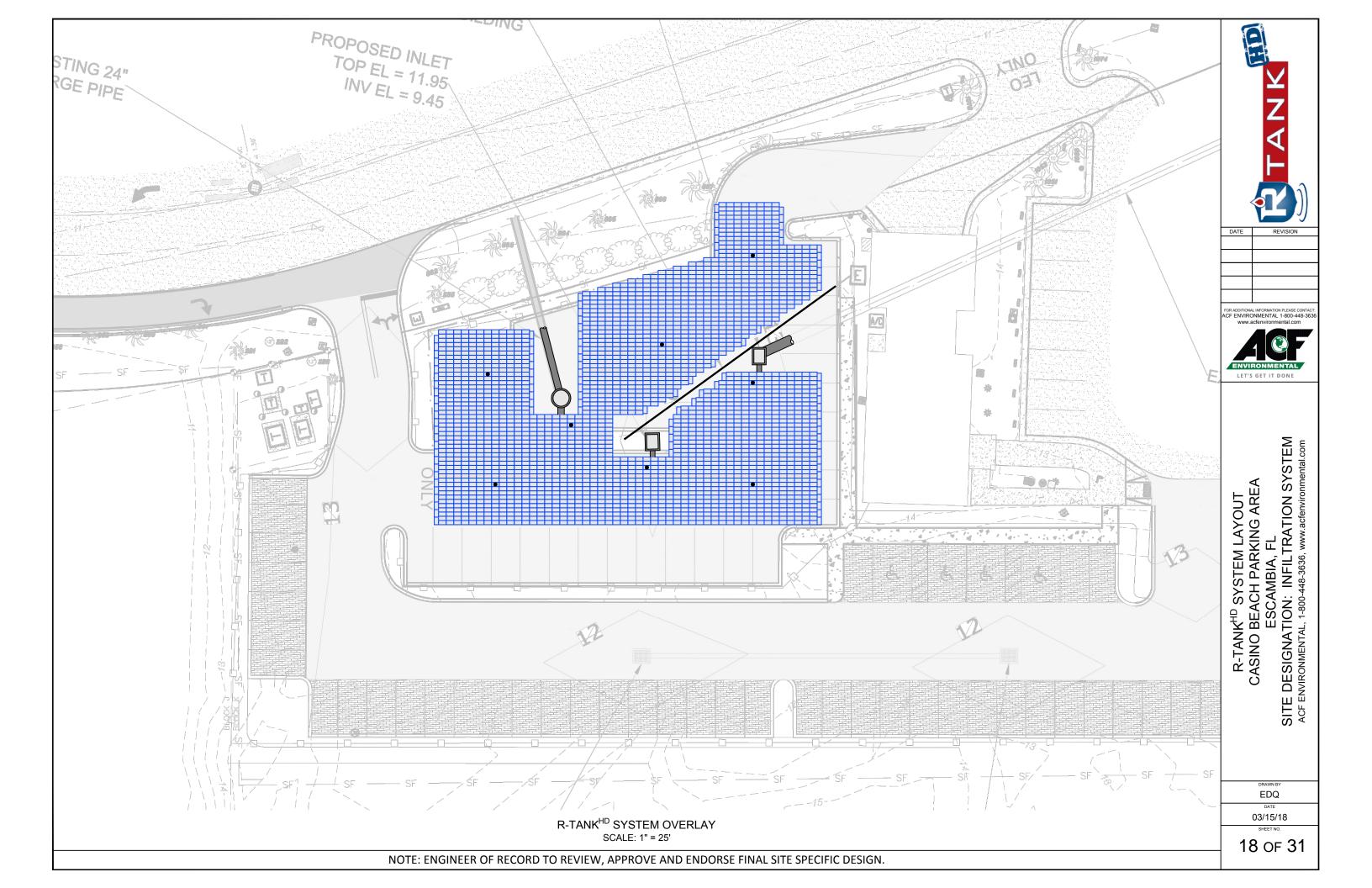




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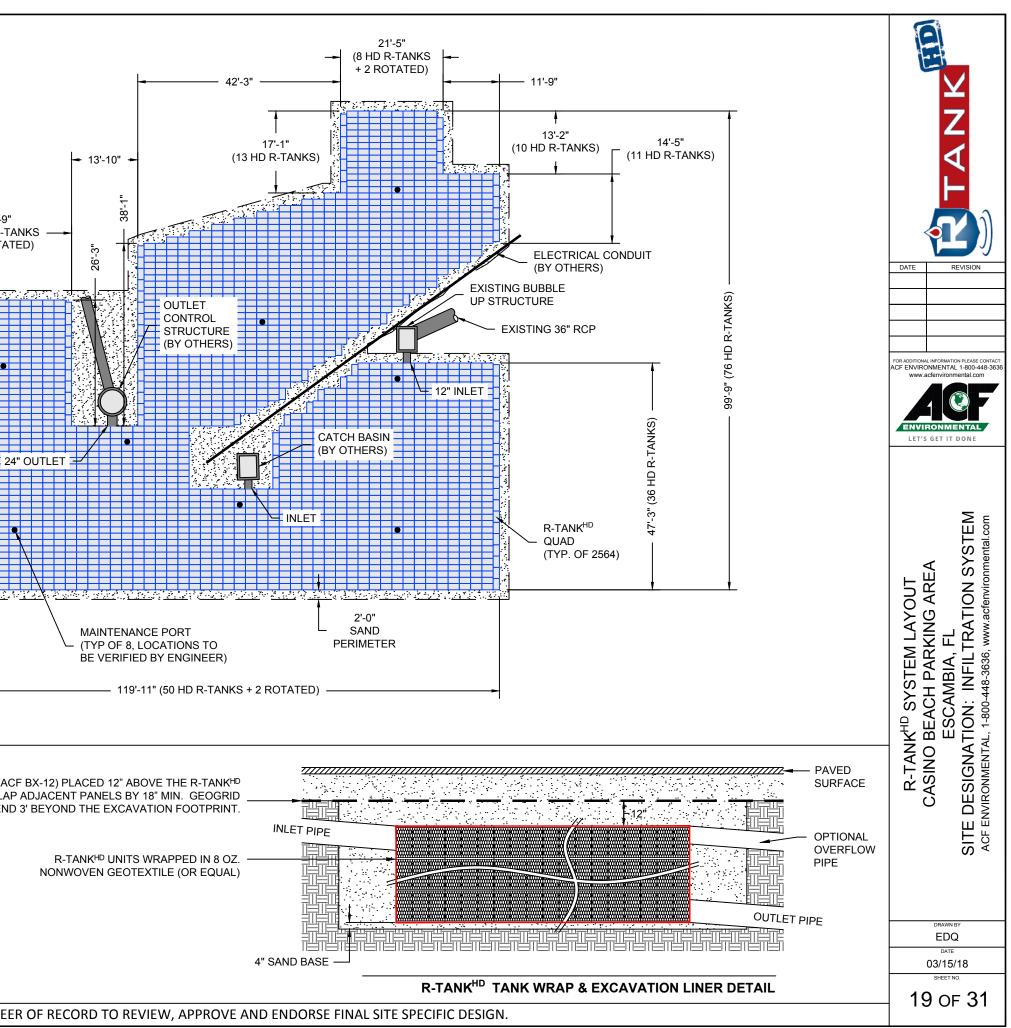
- 1. This Index also applies to right turn lanes.
- 2. Make pavement marking yellow for left-turn lanes and white for right-turn lanes.

	PENSACOLA BEACH CONGESTION	MANAGEMENT PLAN		CASHINO BEACH FAMALINO AMEA		STANDARD DETAILS
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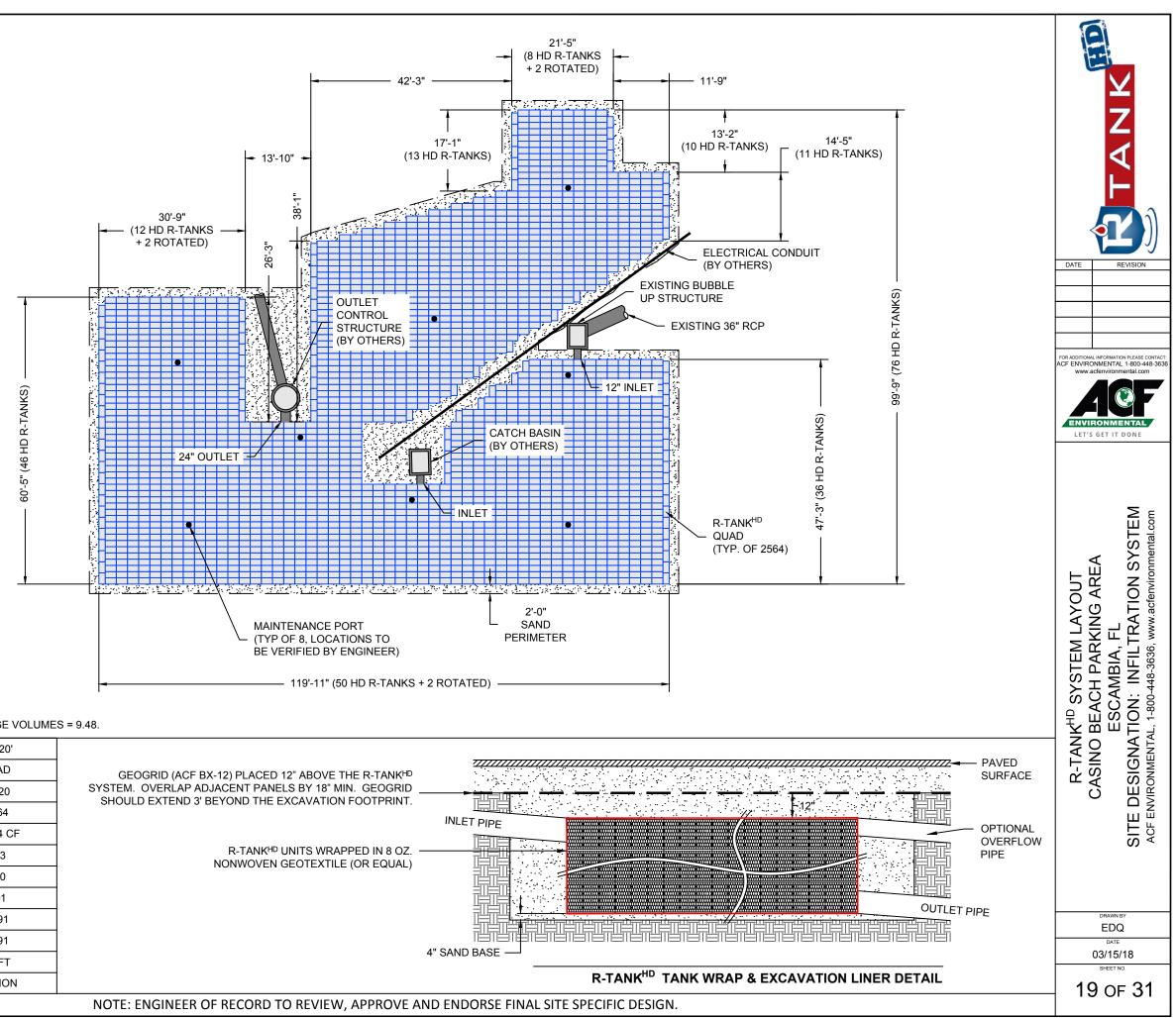
NOTE: ENGINEER OF RECORD TO REVIEW, APPROVE AND ENDORSE FINAL SITE SPECIFIC DESIGN.	

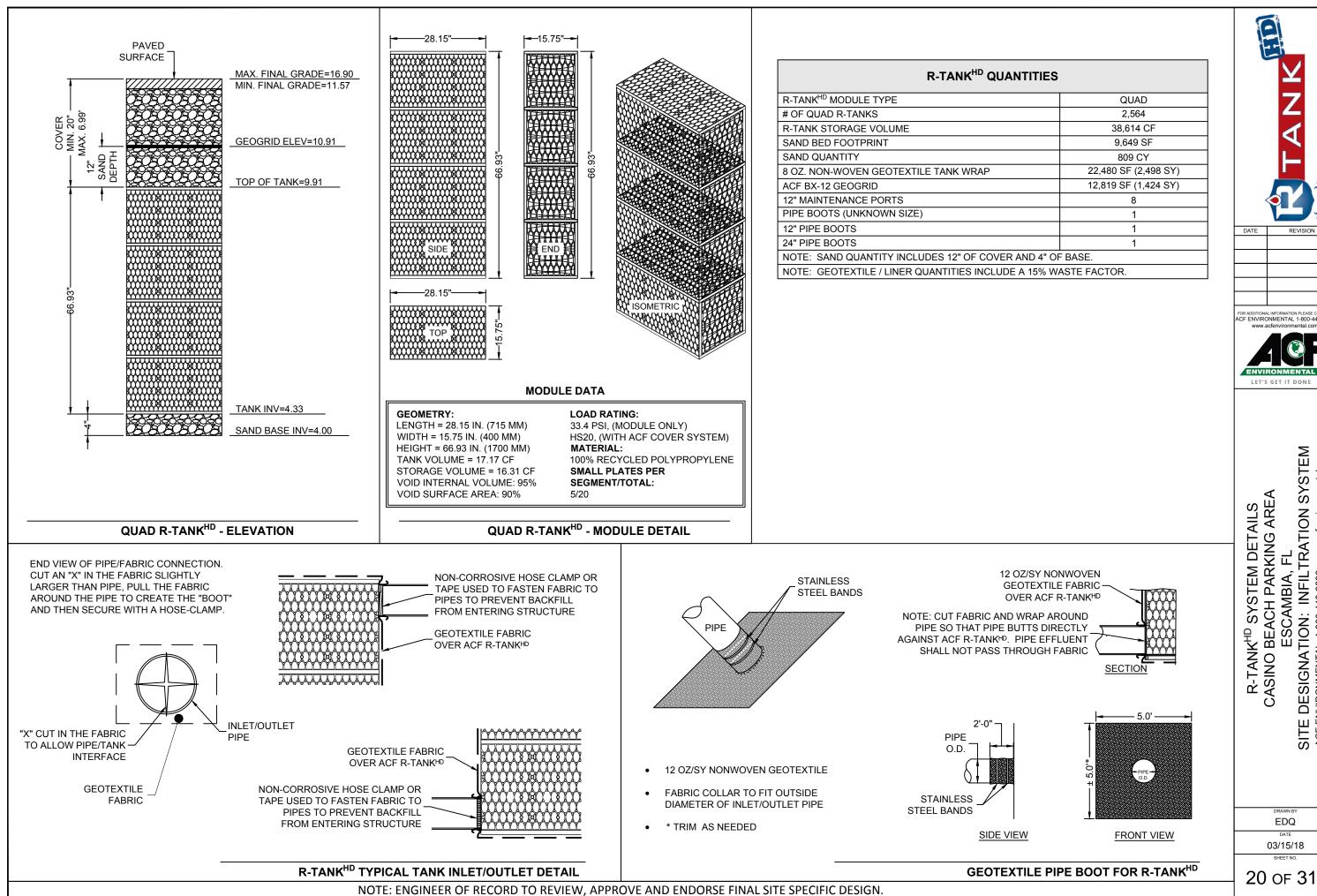
LAYOUT SCALE	1" = 20'				
R-TANK ^{HD} MODULE TYPE	QUAD				
TRAFFIC LOAD	HS-20				
# OF QUAD R-TANKS	2,564				
R-TANK STORAGE VOLUME	38,614 CF				
TANK INVERT	4.33				
INVERT OF SAND BASE (4")	4.00				
TOP OF R-TANK ELEV.	9.91				
TOP OF COVER SAND ELEV. (12")	10.91				
ACF BX-12 GEOGRID ELEV.	10.91				
MIN. SAND PERIMETER WIDTH 2.0 FT					
SEE SHEETS 3 - 6 FOR DETAILS AND ADDITIONA	L INFORMATION				



2. MAXIMUM WATER SURFACE ELEVATION FOR STORAGE VOLUMES = 9.48.

NOTES: 1. STORAGE VOLUME FROM 4.33 TO 9.40 = 38,014 CF

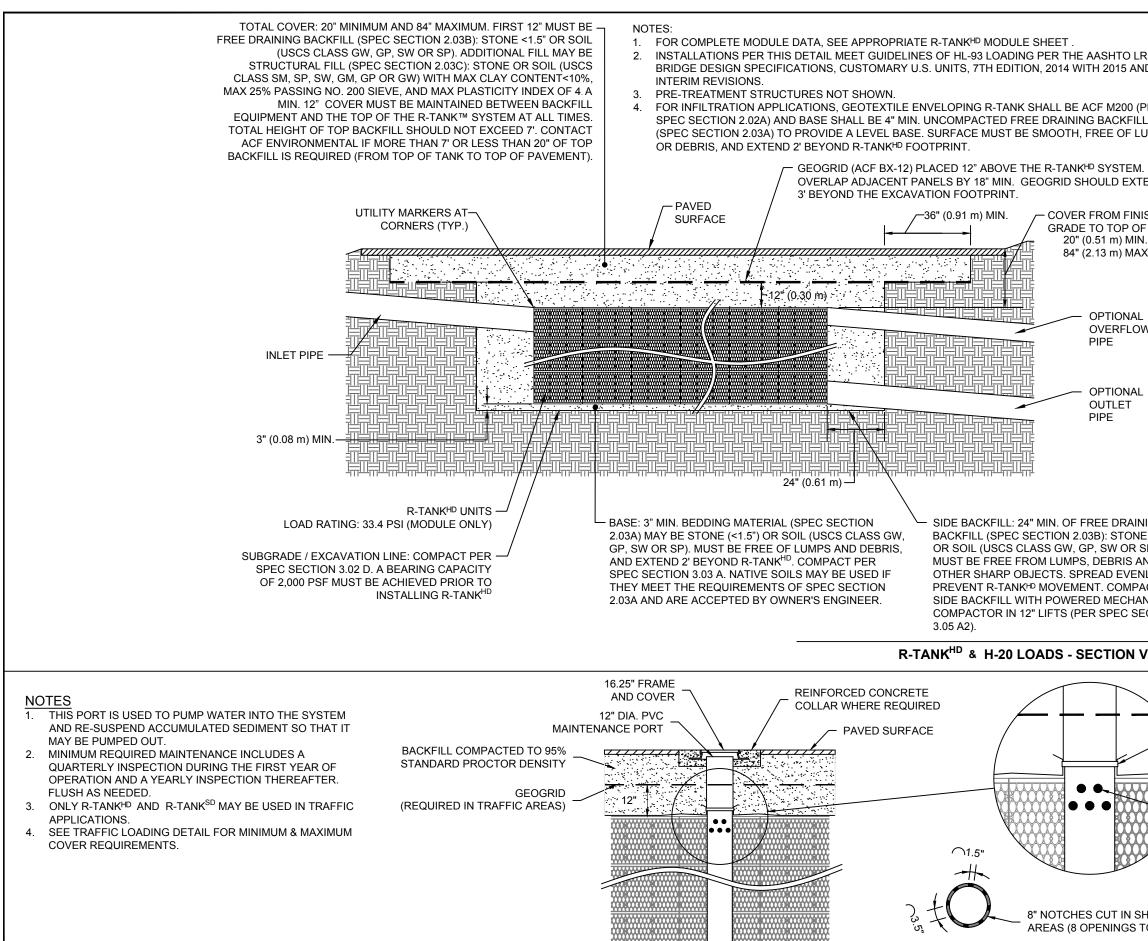




NTITIES
-

	QUAD						
	2,564						
	38,614 CF						
	9,649 SF						
	809 CY						
	22,480 SF (2,498 SY)						
	12,819 SF (1,424 SY)						
	8						
	1						
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r and 4" of	BASE.						
E A 15% W	ASTE FACTOR.						





NON-CORROSIVE SOLID PLATE PLASTIC, SLATE OR EQUIVALENT

NOTE: ENGINEER OF RECORD TO REVIEW, APPROVE AND ENDORSE FINAL SITE SPECIFIC DESIGN.

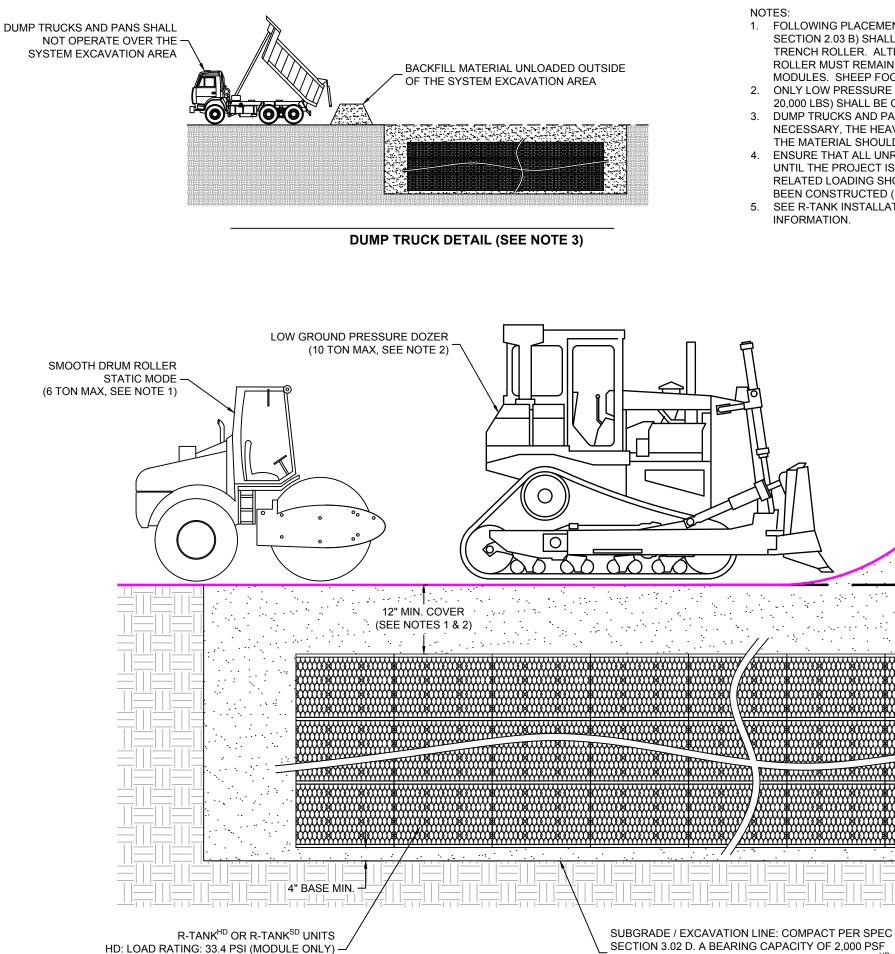
NOTCH BOTTOM OF PIPE

(SEE PATTERN)

PIPE NOTCHING PATTERN

R-TANK^{HD}

RFD ND 2016 PER L UMPS TEND ISH F TANK: N X.	DATE REVISION
NING E <1.5" SP). ND NLY TO ACT NICAL ECTION VIEW NON-CORROSIVE HOSE CLAMP GEOTEXTILE (AS SPECIFIED) 1" +/- VENTING PERFORATIONS	R-TANK ^{HD} SYSTEM DETAILS CASINO BEACH PARKING AREA ESCAMBIA, FL SITE DESIGNATION: INFILTRATION SYSTEM ACF ENVIRONMENTAL, 1-800-448-3636, www.acfenvironmental.com
HADED TOTAL) TYPICAL MAINTENANCE PORT	DRAWN BY EDQ DATE 03/15/18 SHEET NO. 21 OF 31



SD: LOAD RATING: 40 PSI (MODULE ONLY)

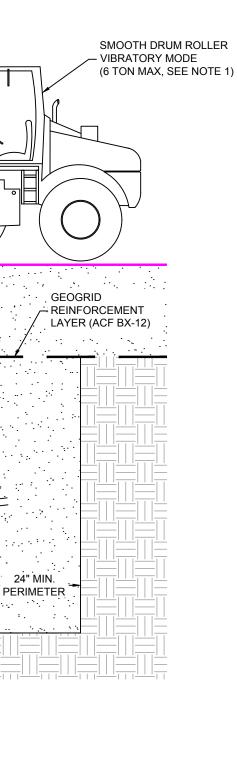
- 1. FOLLOWING PLACEMENT OF SIDE BACKFILL, A UNIFORM 12" LIFT OF THE FREELY DRAINING MATERIAL (SPEC SECTION 2.03 B) SHALL BE PLACED OVER THE R-TANK AND LIGHTLY COMPACTED USING A WALK-BEHIND TRENCH ROLLER. ALTERNATELY, A ROLLER (MAXIMUM GROSS VEHICLE WEIGHT OF 6 TONS) MAY BE USED. ROLLER MUST REMAIN IN STATIC MODE UNTIL A MINIMUM OF 24" OF COVER HAS BEEN PLACED OVER THE MODULES. SHEEP FOOT ROLLERS SHOULD NOT BE USED. SPEC SECTION 3.05 A
- ONLY LOW PRESSURE TIRE OR TRACK VEHICLES (LESS THAN 7 PSI AND OPERATING WEIGHT OF LESS THAN 20,000 LBS) SHALL BE OPERATED OVER THE R-TANK SYSTEM DURING CONSTRUCTION. SPEC SECTION 3.05 B
- DUMP TRUCKS AND PANS SHALL NOT BE OPERATED WITHIN THE R-TANK SYSTEM AT ANY TIME. WHERE NECESSARY, THE HEAVY EQUIPMENT SHOULD UNLOAD IN AN AREA ADJACENT TO THE R-TANK SYSTEM AND THE MATERIAL SHOULD BE MOVED OVER THE SYSTEM WITH TRACKED EQUIPMENT. SPEC SECTION 3.05 B
- ENSURE THAT ALL UNRELATED CONSTRUCTION TRAFFIC IS KEPT AWAY FROM THE LIMITS OF EXCAVATION UNTIL THE PROJECT IS COMPLETE AND FINAL SURFACE MATERIALS ARE IN PLACE. NO NON-INSTALLATION RELATED LOADING SHOULD BE ALLOWED OVER THE R-TANK SYSTEM UNTIL THE FINAL DESIGN SECTION HAS BEEN CONSTRUCTED (INCLUDING PAVEMENT). SPEC SECTION 3.05 C
- SEE R-TANK INSTALLATION GUIDE OR CONTACT YOUR LOCAL ACF REPRESENTATIVE FOR ADDITIONAL

MUST BE ACHIEVED PRIOR TO INSTALLING R-TANKHD

OR R-TANK^{SD}

24" MIN. COVER.

(SEE NOTE 1)





R-TANK SPECIFICATION

PART 1 - GENERAL

1.01 Related Documents

- Drawings, technical specification and general provisions of the Contract as modified herein apply to this section.
- 1.02 Description of Work Included
- Provide excavation and base preparation per geotechnical engineer's recommendations and/or as shown on the design drawings, to provide adequate support for project design loads and safety from excavation sidewall collapse. Excavations shall be in accordance with the owner's and OSHA requirements
- Provide and install R-Tank, R-TankHD, or R-TankSD system (hereafter called R-Tank) and all related products including fill materials, geotextiles, geogrids, inlet and outlet pipe with connections per the manufacturer's installation guidelines provided in this section.
- Provide and construct the cover of the R-Tank system including; stone backfill, structural fill cover, and pavement section as specified.
- Protect R-Tank system from construction traffic after installation until completion of all construction activity in the installation area.

1.03 Quality Control

- All materials shall be manufactured in ISO certified facilities. Α.
- Installation Contractor shall demonstrate the following experience:
- A minimum of three R-Tank or equivalent projects completed within 2 years; and,
- A minimum of 25,000 cubic feet of storage volume completed within 2 years.
- Contractor experience requirement may be waived if the manufacturer's representative provides on-site training and review during construction
- Installation Personnel: Performed only by skilled workers with satisfactory record of performance on bulk earthworks, pipe, chamber, or pond/landfill construction projects of comparable size and quality
- D. Contractor must have manufacturer's representative available for site review if requested by Owner.

1.04 Submittals

Submit proposed R-Tank layout drawings. Drawings shall include typical section details as well as the required base elevation of stone and tanks, minimum cover requirements and tank configuration.

- Submit manufacturer's product data, including compressive strength and unit weight.
- Submit manufacturer's installation instructions.
- Submit R-Tank sample for review. Reviewed and accepted samples will be returned to the Contractor D
- Submit material certificates for geotextile, geogrid, base course and backfill materials.
- Submit required experience and personnel requirements as specified in Section 1.03.
- Any proposed equal alternative product substitution to this specification must be submitted for review and approved prior to bid opening. Review package should include third party reviewed performance data that meets or exceeds criteria in Table 2.01 B.

 1.05 Delivery, Storage, and Handling
 A. Protect R-Tank and other materials from damage during delivery, and store UV sensitive materials under tarp to protect from sunlight when time from delivery to installation exceeds two weeks. Storage of materials should be on smooth surfaces, free from dirt, mud and debris.

- Handling is to be performed with equipment appropriate to the materials and site conditions, and may include hand, handcart, forklifts, extension lifts, etc.
- Cold weather:
- Care must be taken when handling plastics when air temperature is 40 degrees or below as plastic becomes brittle.
- Do not use frozen materials or materials mixed or coated with ice or frost.
- Do not build on frozen ground or wet, saturated or muddy subgrade.

1.06 Preinstallation Conference.

Prior to the start of the installation, a preinstallation conference shall occur with the representatives from the design team, the general contractor, the excavation contractor, the R-Tank installation contractor, and the manufacturer's representative.

1.07 Project Conditions

Coordinate installation for the R-Tank system with other on-site activities to eliminate all non-installation related construction traffic over the completed R-Tank system. No loads heavier than the design loads shall be allowed over the system, and in no case shall loads higher than a standard AASHTO HS20 (or HS25, depending on design criteria) load be allowed on the system at any time.

Protect adjacent work from damage during R-Tank system installation.

All pre-treatment systems to remove debris and heavy sediments must be in place and functional prior to operation of the R-Tank system. Additional pretreatment measures may

be needed if unit is operational during construction due to increased sediment loads. Contractor is responsible for any damage to the system during construction.

PART 2 - PRODUCTS

2.01 R-Tank Units

R -Tank - Injection molded plastic tank plates assembled to form a 95% void modular structure of predesigned height (custom for each project).

в R-Tank units shall meet the following Physical & Chemical Characteristics

PROPERTY	DESCRIPTION	R-Tank ^{LD} VALUE	R-Tank ^{HD} VALUE	R-Tank ^{sd} VALUE
Void Area	Volume available for water storage	95%	95%	95%
Surface Void Area	Percentage of exterior available for infiltration	90%	90%	90%
Compressive Strength	ASTM D 2412 / ASTM F 2418	30.0 psi	33.4 psi	42.9 psi
HS-20 Minimum Cover	Cover required to support HS-20 loads	N/A	20"	18"
HS-25 Minimum Cover	Cover required to support HS-25 loads	N/A	24"	19"
Maximum Cover	Maximum allowable cover depth	3 feet	< 7 feet	< 10 feet
Unit Weight	Weight of plastic per cubic foot of tank	3.29 lbs / cf	3.62 lbs/cf	3.96 lbs / cf
Rib Thickness	Thickness of load-bearing members	0.18 inches	0.18 inches	0.18 inches
Service Temperature	Safe temperature range for use	-14 – 167° F	-14 – 167° F	-14 – 167° F

2 02 Geosynthetics

Geotextile. A geotextile envelope is required to prevent backfill material from entering the R-Tank modules.

Standard Application: The standard geotextile shall be an 8 oz per square yard nonwoven geotextile (ACF N080 or equivalent).

Infiltration Applications: When water must infiltrate/exfiltrate through the geotextile as a function of the system design, a woven monofilament (ACF M200 or equivalent) shall be used

Geogrid. For installations subject to traffic loads and/or when required by project plans, install geogrid (ACF BX12 or equivalent) to reinforce backfill above the R-Tank system. Geogrid is often not required for non-traffic load applications

2.03 Backfill & Cover Materials

A. Bedding Materials: Stone (smaller than 1.5" in diameter) or soil (GW. GP. SW. or SP as classified by the Unified Soil Classification System) shall be used below the R-Tank system (3" minimum). Material must be free from lumps, debris, and any sharp objects that could cut the geotextile. Material shall be within 3 percent of the optimum moisture content as determined by ASTM D698 at the time of installation. For infiltration applications bedding material shall be free draining.

Side and Top Backfill: Free draining stone (smaller than 1.5" in diameter) or soil (GW, GP, SW, or SP as classified by the Unified Soil Classification System) shall be used adjacent to (24" minimum) and above (for the first 12") the R-Tank system. Material must be free from lumps, debris and any sharp objects that could cut the geotextile. Material shall be within 3 percent of the optimum moisture content as determined by ASTM D698 at the time of installation.

Additional Cover Materials: Structural Fill shall consist of granular materials meeting the gradational requirements of SM, SP, SW, GM, GP or GW as classified by the Unified Soil Classification System. Structural fill shall have a maximum of 25 percent passing the No. 200 sieve, shall have a maximum clay content of 10 percent and a maximum Plasticity Index of Material shall be within 3 percent of the optimum moisture content as determined by ASTM D698 at the time of installation

2.04 Other Materials

Utility Marker: Install metallic tape at corners of R-Tank system to mark the area for future utility detection.

PART 3 - EXECUTION

3.01 Assembly of R-Tank Units

On-site assembly of tanks shall be performed in accordance with the R-Tank Installation Manual, Section 2.

3.02 Layout and Excavation

Installer shall stake out, excavate, and prepare the subgrade area to the required plan grades and dimensions, ensuring that the excavation is at least 2 feet greater than R-Tank dimensions in each direction allowing for installation of geotextile filter fabric, R-Tank modules, and free draining backfill materials.

All excavations must be prepared with OSHA approved excavated sides and sufficient working space. С Protect partially completed installation against damage from other construction traffic by establishing a perimeter with high visibility construction tape, fencing, barricades, or other

means until construction is complete Base of the excavation shall be uniform, level, and free of lumps or debris and soft or yielding subgrade areas. A minimum 2,000 pounds per square foot bearing capacity is D. required

Standard Applications: Compact subgrade to a minimum of 95% of Standard Proctor (ASTM D698) density or as required by the Owner's engineer Infiltration Applications: Subgrade shall be prepared in accordance with the contract documents. Compaction of subgrade should not be performed in infiltration applications. 2. Unsuitable Soils or Conditions: All questions about the base of the excavation shall be directed to the owner's engineer, who will approve the subgrade conditions prior to

placement of stone. The owner's engineer shall determine the required bearing capacity of the R-Tank subgrade; however in no case shall a bearing capacity of less than 2,000 pounds per square foot be provided.

If unsuitable soils are encountered at the subgrade, or if the subgrade is pumping or appears excessively soft, repair the area in accordance with contract documents and/or as directed by the owner's engineer.

If indications of the water table are observed during excavation, the engineer shall be contacted to provide recommendations Do not start installation of the R-Tank system until unsatisfactory subgrade conditions are corrected and the subgrade conditions are accepted by the owner's engineer.

3.03 Preparation of Base

Place a thin layer (3" unless otherwise specified) of bedding material (Section 2.03 A), over the subgrade to establish a level working platform for the R-Tank modules. Level to within ½" (+/- ½") or as shown on the plans. Native subgrade soils or other materials may be used if determined to meet the requirements of 2.03 A and are accepted by the owner's engineer

- Standard Applications: Static roll or otherwise compact bedding materials until they are firm and unyielding.
- Infiltration Applications: Bedding materials shall be prepared in accordance with the contract documents
- Outline the footprint of the R-Tank system on the excavation floor using spray paint or chalk line to ensure a 2' perimeter is available around the R-Tank system for proper в installation and compaction of backfill

3.04 Installation of the R-Tanks

A. Where a geotextile wrap is specified on the stone base, cut strips to length and install in excavation, removing wrinkles so material lays flat. Overlap geotextile a minimum 12° or as recommended by manufacturer.

Where an impervious liner (for containment) is specified, install the liner per manufacturer's recommendations and the contract documents. The R-Tank units shall be separated from impervious liner by a non-woven geotextile fabric installed accordance with Section 3.04A.

C. Install R-Tank modules by placing side by side, in accordance with the design drawings. No lateral connections are required. It is advisable to use a string line to form square corners and straight edges along the perimeter of the R-Tank system. The modules are to be oriented as per the design drawing (15 75" x 28 15") with required depth as shown on plans. The large side plate of the tank should be placed on the perimeter of the system. This will typically require that the two ends of the tank area will have a row of tanks placed perpendicular to all other tanks. If this is not shown in the construction drawings, it is a simple field adjustment that will have minimal effect on the overall system footprint. Refer to R-Tank Installation Guide for more details

D. Wrap the R-Tank top and sides in specified geotextile. Cut strips of geotextile so that it will cover the sides and top, encapsulating the entire system to prevent soil entry into the system. Overlap geotextile 12" or as recommended by manufacturer. Take great care to avoid damage to geotextile (and, if specified, impervious liner) during placement. Identify locations of inlet, outlet and any other penetrations of the geotextile (and optional liner). These connections should be installed flush (butted up to the R-Tank) and the geotextile fabric shall be cut to enable hydraulic continuity between the connections and the R-Tank units. These connections shall be secured using pipe boots with stainless steel pipe clamps. Support pipe in trenches during backfill operations to prevent pipe from settling and damaging the geotextile, impervious liner (if specified) or pipe. Connecting pipes at 90 degree angles facilitates construction, unless otherwise specified. Ensure end of pipe is installed snug against R-Tank system.

Install Inspection and Maintenance Ports in locations noted on plans. At a minimum one maintenance port shall be installed within 10' of each inlet & outlet connection, and with a maximum spacing of one maintenance port for every 2,500 square feet. Install all ports as noted in the R-Tank Installation Guide. G. If required, install ventilation pipes and vents as specified on drawings to provide ventilation for proper hydraulic performance. The number of pipes and vents will depend on the size of the system. Vents are often installed using a 90 degree elbow with PVC pipe into a landscaped area with 'U" bend or venting bollard to inhibit the ingress of debris. A ground level concrete or steel cover can be used.

3.05 Backfilling of the R-Tank Units

Backfill and fill with recommended materials as follows:

Place freely draining backfill materials (Section 2.03 B) around the perimeter in lifts with a maximum thickness of 12". Each lift shall be placed around the entire perimeter such that each lift is no more than 24" higher than the side backfill along any other location on the perimeter of the R-Tank system. No fill shall be placed over top of tanks until the side backfill has been completed.

Each lift shall be compacted at the specified moisture content to a minimum of 95% of the Standard Proctor Density until no further densification is observed (for self-compacting stone materials). The side lifts must be compacted with walk behind compaction equipment. Even when "self-compacting" backfill materials are selected, a walk behind vibratory compactor must be used.

Take care to ensure that the compaction process does not allow the machinery to come into contact with the modules due to the potential for damage to the geotextile and R-Tank units

No compaction equipment is permissible to operate directly on the R-Tank modules.

Following placement of side backfill, a uniform 12" lift of the freely draining material (Section 2.03 B) shall be placed over the R-Tank and lightly compacted using a walk-behind trench roller. Alternately, a roller (maximum gross vehicle weight of 6 tons) may be used. Roller must remain in static mode until a minimum of 24" of cover has been placed over the modules. Sheep foot rollers should not be used.

Install a geogrid (required for traffic applications) over the initial 12" lift of backfill. Geogrid shall extend a minimum of 3 feet beyond the limits of the excavation wall. Following placement and compaction of the initial cover, subsequent lifts of structural fill (Section 2.03 C) shall be placed at the specified moisture content and compacted to a

minimum of 95% of the Standard Proctor Density and shall cover the entire footprint of the R-Tank system. During placement of fill above the system, unless otherwise specified, a uniform elevation of fill shall be maintained to within 12" across the footprint of the R-Tank system. Do not exceed maximum cover depths listed in Table 2.01 B. Place additional layers of geotextile and/or geogrid at elevations as specified in the design details. Each layer of geosynthetic reinforcement placed above the R-Tank system shall extend a minimum of 3 feet beyond the limits of the excavation wall.

B. Only low pressure fire or track vehicles shall be operated over the R-Tank system during construction. No machinery should drive on top of the tank until a minimum of 18" of backfill and compaction is achieved. Dump Trucks and Pans shall not be operated within the R-Tank system footprint at any time. Where necessary the heavy equipment should unload in an area adjacent to the R-Tank system and the material should be moved over the system with tracked equipment.

C. Ensure that all unrelated construction traffic is kept away from the limits of excavation until the project is complete and final surface materials are in place. No non-installation related loading should be allowed over the R-Tank system until the final design section has been constructed (including pavement). D. Place surfacing materials, such as groundcovers (no large trees), or paving materials over the structure with care to avoid displacement of cover fill and damage to surrounding

E. Backfill depth over R-Tank system must be within the limitations shown in the table in Section 2.01 B. If the total backfill depth does not comply with this table, contact engineer or manufacturer's representative for assistance.

PART 4 - USING THE SYSTEM

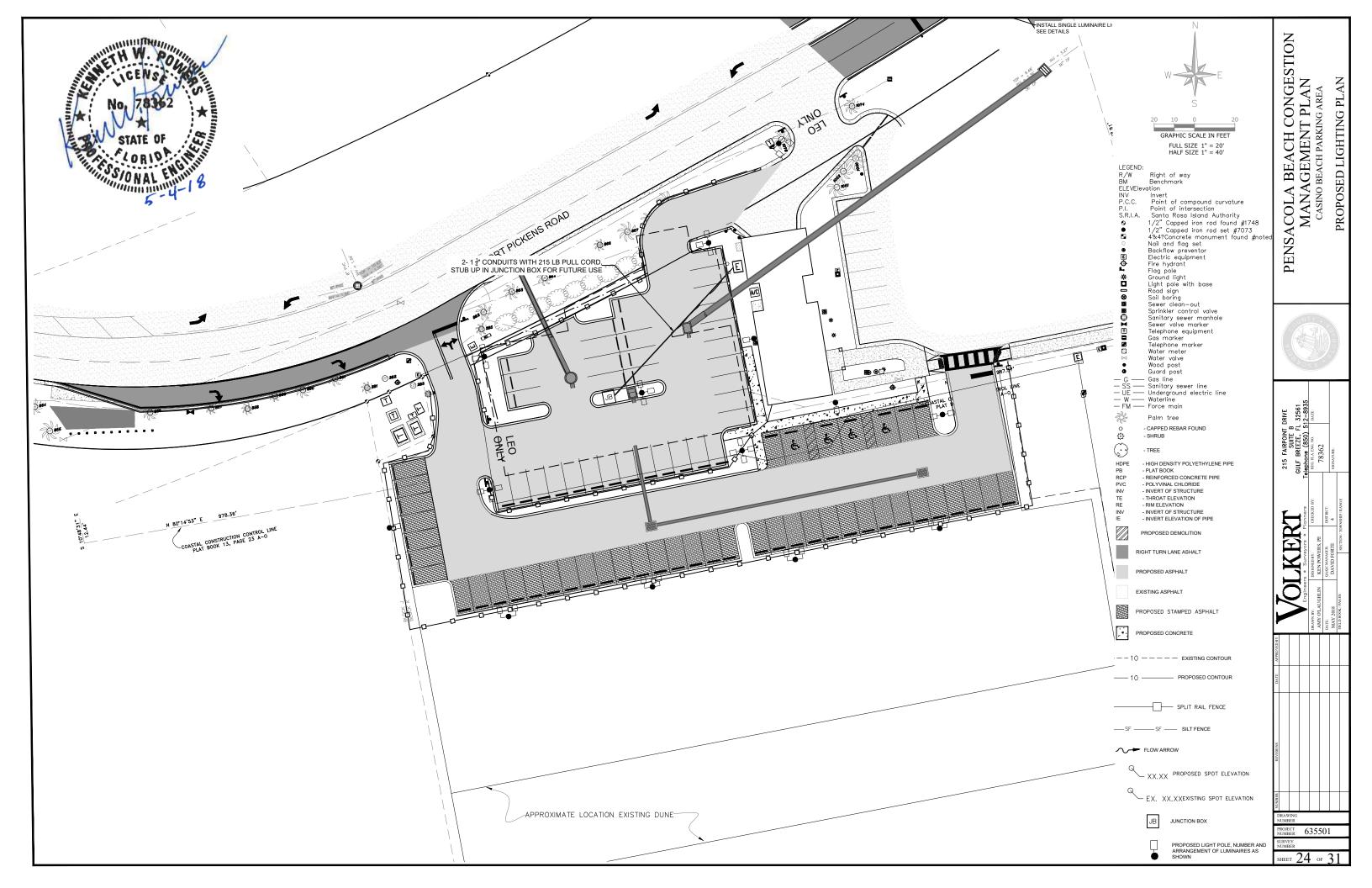
4.01 Maintenance Requirements

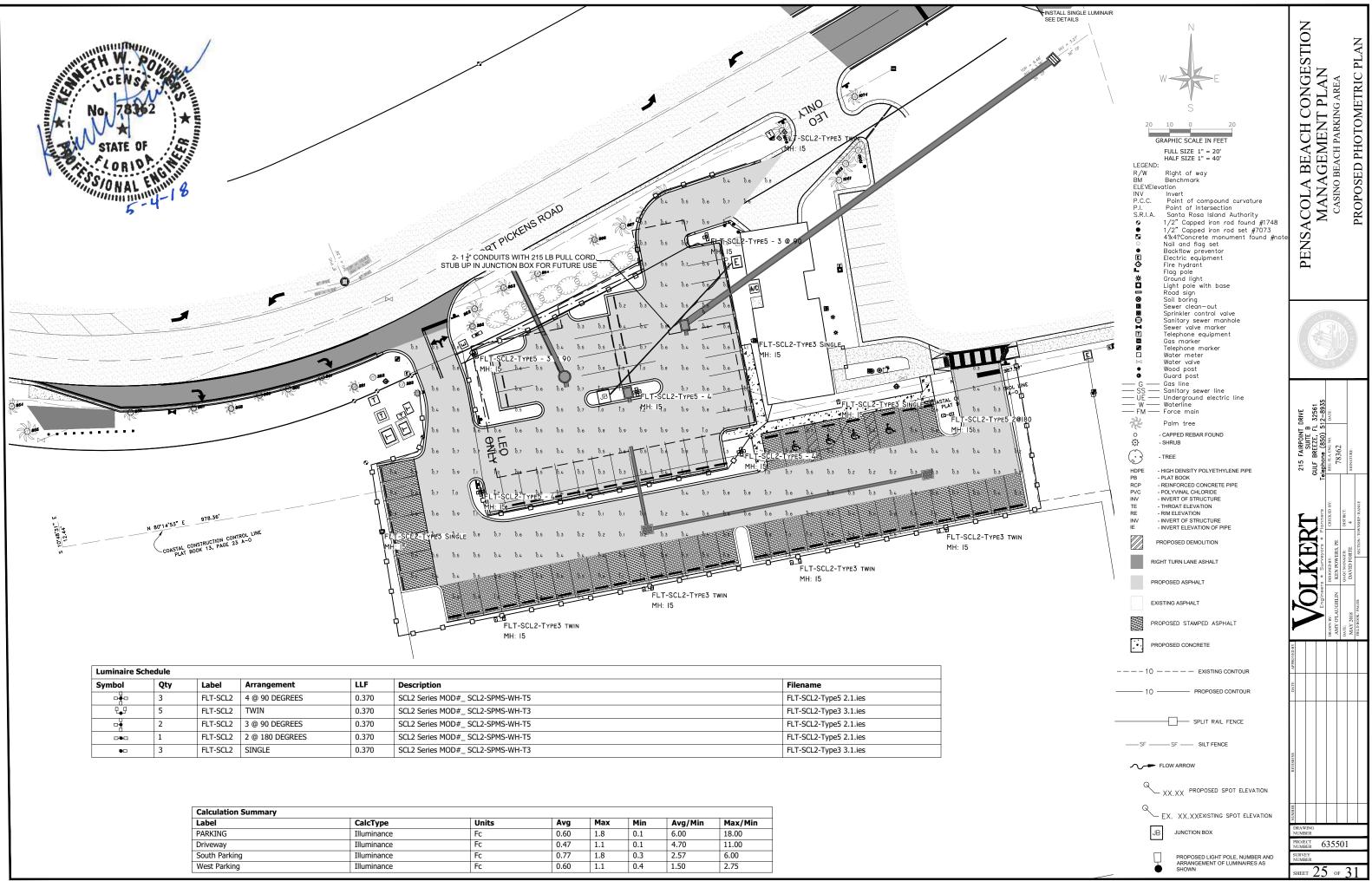
A. A routine maintenance effort is required to ensure proper performance of the R-Tank system. The Maintenance program should be focused on pretreatment systems. Ensuring these structures are clean and functioning properly will reduce the risk of contamination of the R-Tank system and stormwater released from the site. Pre-treatment systems shall be inspected yearly, or as directed by the regulatory agency and by the manufacturer (for proprietary systems). Maintain as needed using acceptable practices or following manufacturer's quidelines (for proprietary systems).

Inspection and/or Maintenance Ports in the R-Tank system will need to be inspected for accumulation of sediments at least quarterly through the first year of operation and at least yearly thereafter. This is done by removing the cap of the port and using a measuring device long enough to reach the bottom of the R-Tank system and stiff enough to push through the loose sediments, allowing a depth measurement.

If sediment has accumulated to the level noted in the R-Tank Maintenance Guide or beyond a level acceptable to the Owner's engineer, the R-Tank system should be flushed. A flushing event consists of pumping water into the Maintenance Port and/or adjacent structure, allowing the turbulent flows through the R-Tank system to re-suspend the fine sediments. If multiple Maintenance Ports have been installed, water should be pumped into each port to maximize flushing efficiency. Sediment-laden water can be filtered through a Dirtbag or approved equivalent if permitted by the locality.

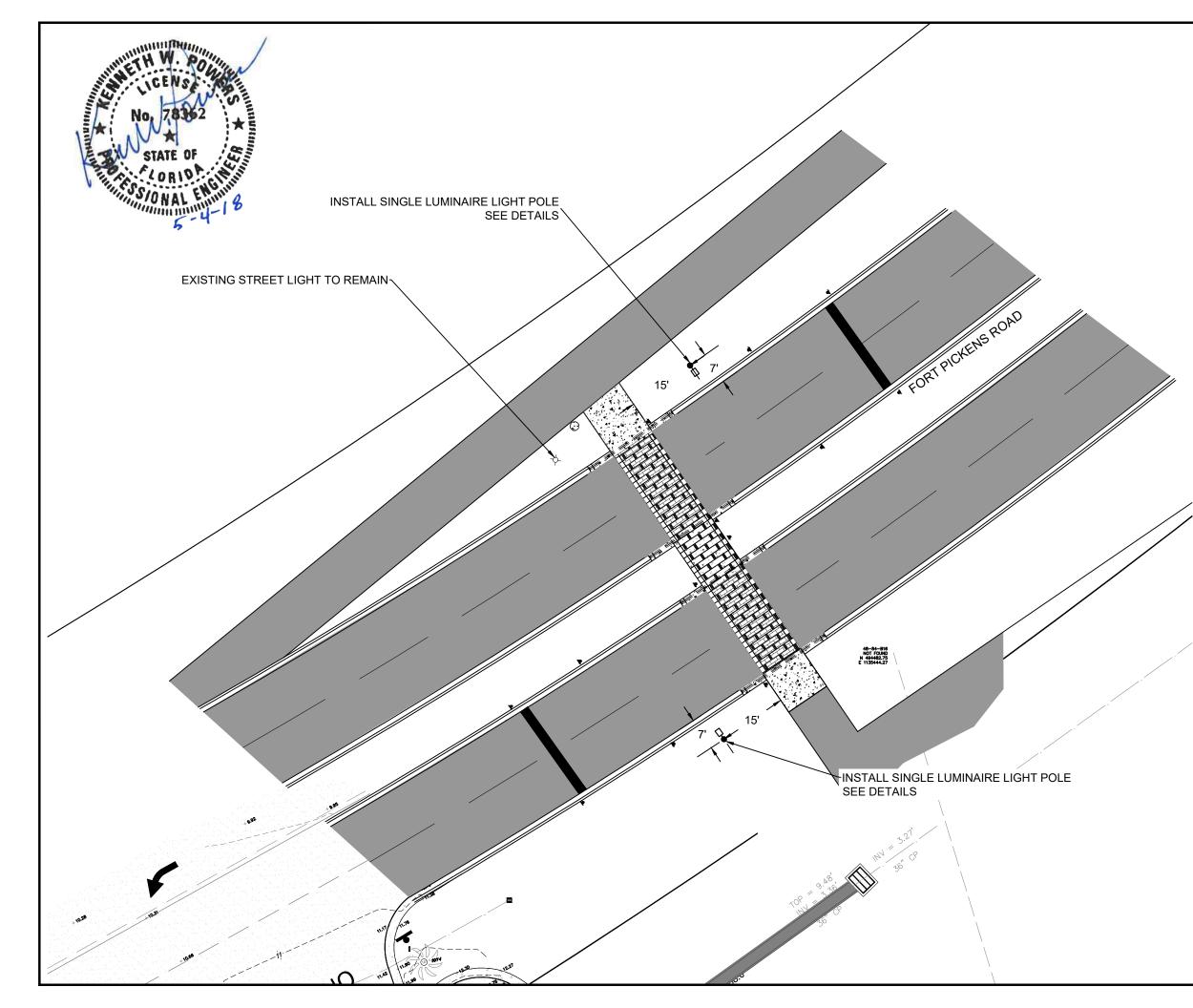






Luminaire Schedule							
Symbol	l	Qty	Label	Arrangement	LLF	Description	Filename
	0	3	FLT-SCL2	4 @ 90 DEGREES	0.370	SCL2 Series MOD#_ SCL2-SPMS-WH-T5	FLT-SCL2-Type5 2.1.ies
₽ _	9	5	FLT-SCL2	TWIN	0.370	SCL2 Series MOD#_ SCL2-SPMS-WH-T3	FLT-SCL2-Type3 3.1.ies
□ • •		2	FLT-SCL2	3 @ 90 DEGREES	0.370	SCL2 Series MOD#_ SCL2-SPMS-WH-T5	FLT-SCL2-Type5 2.1.ies
	a	1	FLT-SCL2	2 @ 180 DEGREES	0.370	SCL2 Series MOD#_ SCL2-SPMS-WH-T5	FLT-SCL2-Type5 2.1.ies
		3	FLT-SCL2	SINGLE	0.370	SCL2 Series MOD#_ SCL2-SPMS-WH-T3	FLT-SCL2-Type3 3.1.ies

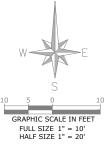
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
PARKING	Illuminance	Fc	0.60	1.8	0.1	6.00	18.00
Driveway	Illuminance	Fc	0.47	1.1	0.1	4.70	11.00
South Parking	Illuminance	Fc	0.77	1.8	0.3	2.57	6.00
West Parking	Illuminance	Fc	0.60	1.1	0.4	1.50	2.75

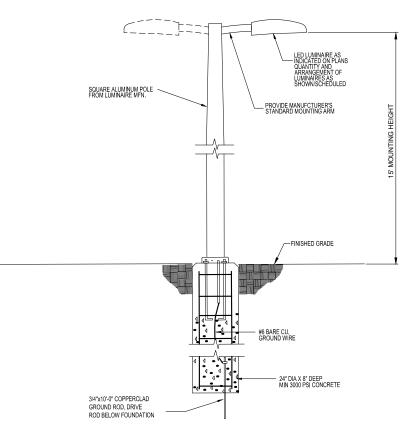


ND SHOWN	PENSACOLA BEACH CONGESTION MANAGEMENT PLAN Casino Beach parking area PROPOSED FT PICKENS CROSSWALK LIGHTING PLAN
	215 FAIRPOINT DRIVE CULF BSLZIE, FL 32561 Telephone (850) 512-8935 Hate ILA Reason 78362 SKOANTRE
	PROLIMENT Engineers & Surveyors & Plenners DRAW 01.4UGHLIN RESNER MAY 2018 DAVUD FORTE 04 MAY 2018 DAVUD FORTE 4 FILDBOOK / PAGES
1 -	MINNARONS DATE APPROVED IN
10 E IN FEET " = 10' " = 20'	DRAWING UNMER PRODECT NUMBER SHEET 26 OF 31

ELECTRICAL LEGEND

- χ EXISTING STREET LIGHT TO REMAIN
- PROPOSED LIGHT POLE, NUMBER AND ARRANGEMENTS OF LUMINAIRES AS S



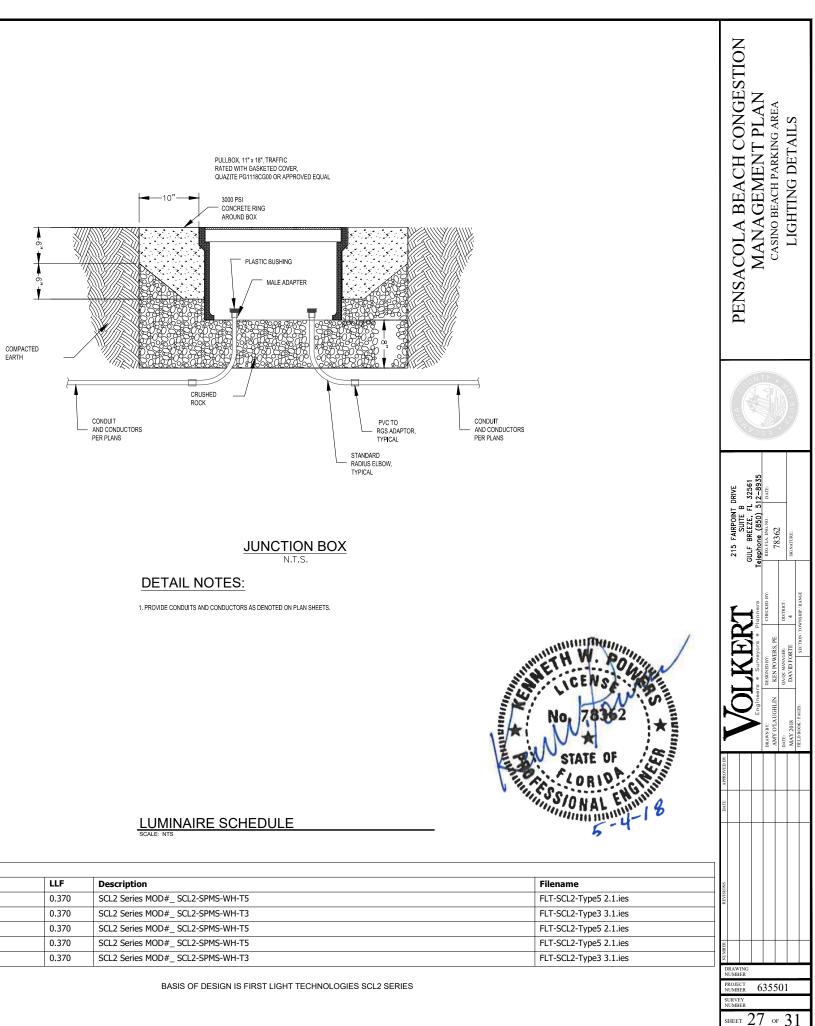


DETAIL NOTES:

- 1. CONCRETE FOUNDATION SHALL BE IN ACCORDANCE WITH FDOT STANDARD DRAWINGS AND SPECIFICATIONS.
- 2. POLES SHALL YIELD A LUMINAIRE MOUNTING HEIGHT OF APPROXIMATELY 15' UNLESS OTHERWISE NOTED.
- 3. ASSEMBLIES SPECIFIED ARE SOLAR TURTLE FRIENDLY LUMINAIRES PROVIDED WITH POLES AND BATTERY SYSTEM.
- 4. IN AREAS WITH HIGH WATER TABLE, CONTRACTOR MAY SUBSTITUTE PRE CASE FOUNDATION WITH SAME DIMENSIONS AND STRUCTURAL PROPERTIES.

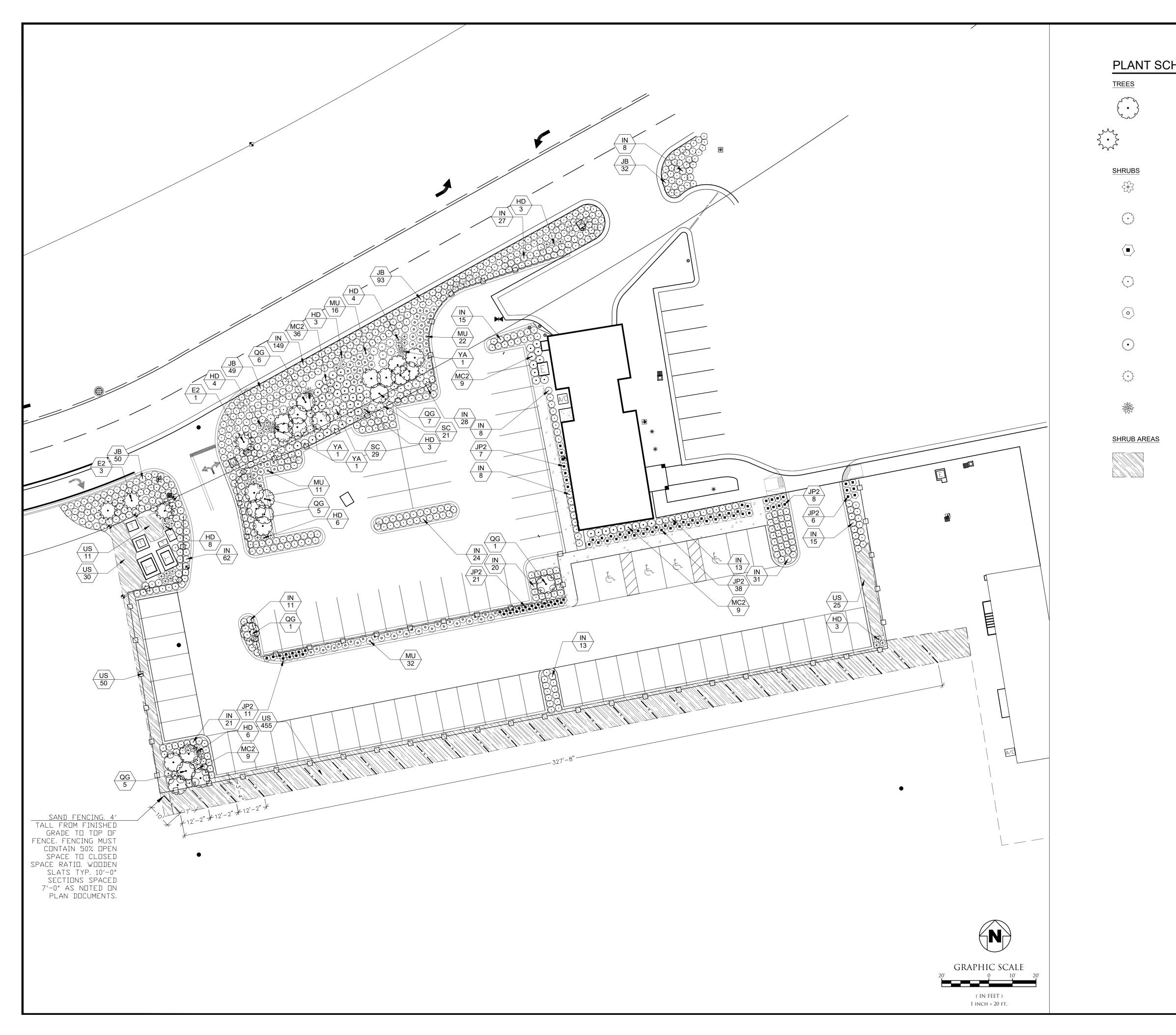
GENERAL ELECTRICAL NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, LATEST EDITION RECOGNIZED BY THE AUTHORITY HAVING JURISDICTION, AND APPLICABLE LOCAL RULES, REGULATIONS AND ORDINANCES, COORDINATED 1. WITH ALL DISCIPLINES.
- 2. UNLESS OTHERWISE NOTED, UNDERGROUND CONDUITS SHALL BE 24" BELOW GRADE AND SHALL BE SCHEDULE 40 PVC, TRANSITIONING TO RGS ABOVE GRADE; TRANSITION FROM PVC TO RGS SHALL BE MADE BELOW GRADE, INTERMEDIATE METAL CONDUIT IS NOT ACCEPTABLE.
- ROUTING AND LOCATIONS OF EQUIPMENT SHOWN ARE APPROXIMATE; CONTRACTOR SHALL DETERMINE BEST MEANS OF ROUTING IN THE FIELD.
- 4. LOCATIONS OF LIGHT POLES SHALL BE STAKED BY THE CONTRACTOR PRIOR TO INSTALLATION FOR REVIEW BY OWNER AND ENGINEER.
- 5. POLES AND LUMINAIRES OTHER THAN THOSE SPECIFIED MAY BE SUBMITTED FOR CONSIDERATION IF SUPPORTING PHOTOMETRIC CALCULATIONS ARE ALSO PROVIDED, LUMINAIRES SHALL BE LISTED (OR BE CAPABLE OF BEING LISTED) IN FWC'S APPROVED PRODUCT LIST OF TURTLE FRIENDLY LUMINAIRES.
- 6. SEE LUMINAIRE SCHEDULE FOR BASIS OF LIGHTING DESIGN.



Luminaire Schedule

	Luminaire Schedule								
	Symbol	Qty	Label	Arrangement	LLF	Description			
		3	FLT-SCL2	4 @ 90 DEGREES	0.370	SCL2 Series MOD#_ SCL2-SPMS-WH-T5			
[₽ _ ₽	5	FLT-SCL2	TWIN	0.370	SCL2 Series MOD#_ SCL2-SPMS-WH-T3			
	 ₽₹	2	FLT-SCL2	3 @ 90 DEGREES	0.370	SCL2 Series MOD#_ SCL2-SPMS-WH-T5			
	000	1	FLT-SCL2	2 @ 180 DEGREES	0.370	SCL2 Series MOD#_ SCL2-SPMS-WH-T5			
ſ	•	3	FLT-SCL2	SINGLE	0.370	SCL2 Series MOD#_ SCL2-SPMS-WH-T3			



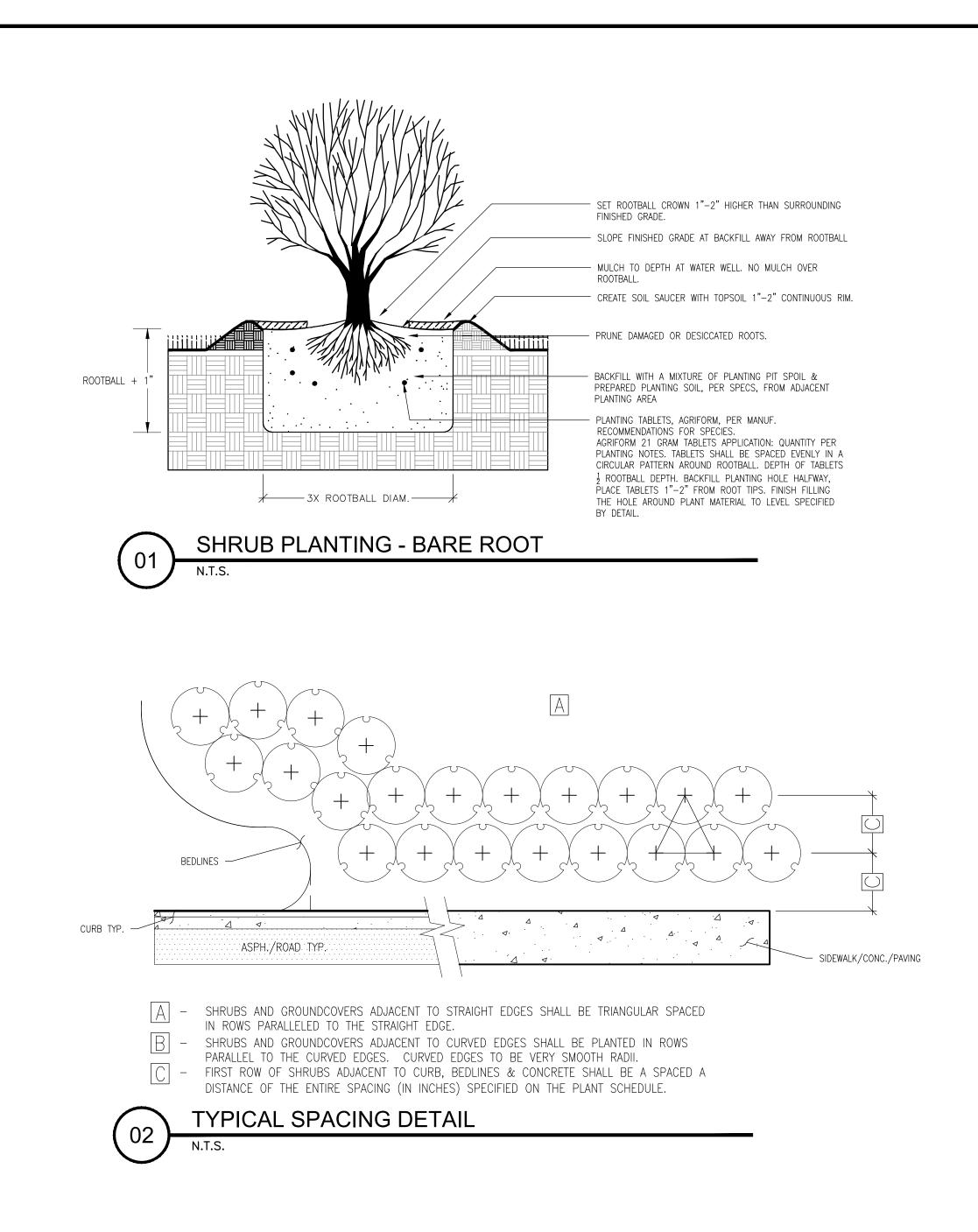
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CODE	<u>QTY</u>	BOTANICAL NAME	CONT	
QG	25	Quercus geminata Sand Live Oak-Shrub Form	3 gal	
E2	4	Sabel Palmetto Existing Palmetto to Remain	Existing	
CODE	QTY	BOTANICAL NAME	CONT	SPACING
HD	40	Helianthus debilis Cucumberleaf Sunflower	3 gal	36" o.c.
IN	453	llex vomitoria `Nana` Dwarf Yaupon	3 gal	36" o.c.
JP2	91	Juniperus chinensis `Parsonii` Parsoni Juniper	3 gal	36" o.c.
JB	224	Juniperus conferta `Blue Pacific` Blue Pacific Juniper	3 gal	36" o.c.
MU	81	Muhlenbergia capillaris Pink Muhly	3 gal	36" o.c.
MC2	63	Myrica cerifera `Pumila` Dwarf Wax Myrtle	3 gal	42" o.c.
SC	50	Serenoa repens `Cinerea` Silver Saw Palmetto	3 gal	48" o.c.
YA	3	Yucca aloifolia Spanish Bayonet	3 gal	60" o.c.
CODE	<u>QTY</u>	BOTANICAL NAME	CONT	<u>SPACING</u>
US	571	Uniola paniculata Sea Oats	4" pot	36" o.c.

PENSACOLA BEACH CONGESTION MANAGEMENT PLAN CASINO BEACH PARKING AREA 100% LANDSCAPE PLAN 215 FAIRPOINT DRIVE SUITE B GULF BREEZE, FL 32561 Felephone (850) 512–8935 **,KERT** DRAWING NUMBER LS101 PROJECT NUMBER 635501 SURVEY NUMBER sheet 28 of 31







GENERAL NOTES

- ARCHITECT, JERRY PATE DESIGN.
- JOB. THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THE PLANS.
- BY THE LANDSCAPE ARCHITECT SHALL BE AT THE CONTRACTOR'S EXPENSE.
- SPECIFICATIONS INCLUDED IN THE CONSTRUCTION DOCUMENTS.
- PROVIDE ALL PLANT MATERIAL REQUIRED TO FILL THE PLANTING BEDS AT THE SPACING INDICATED ON THE PLANTING SCHEDULE.
- 987, AND THE DETAILS IN THE CONSTRUCTION DOCUMENTS.
- SOIL, SEEDS, VEGETATIVE MATTER, OR OTHER DEBRIS THAT COULD CONTAIN OR HOLD SEEDS.
- CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER.
- CONTRACTOR. IF A MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE OWNER.

PLANTING BED PREPARATION

- 1. ALL TRASH, ASPHALT, CONCRETE SIGNAGE, WEEDS AND OTHER SPOILAGE SHALL BE REMOVED FROM SITE PRIOR TO MOBILIZATION OF PLANTING CONTRACTOR.
- 2. ALL AREAS TO BE PLANTED OR SODDED SHALL BE GRADED TO SITE SPECIFICATIONS PRIOR TO MOBILIZATION OF PLANTING CONTRACTOR.
- SHALL REMAIN IN PLANTING BEDS.
- REGARDING HERBICIDES, PESTICIDES, AND REQUIRED LICENSES.
- GRADED TO PROVIDE POSITIVE DRAINAGE WITH NO AREAS WHERE STANDING WATER COULD OCCUR.

7. ALL PLANTING BED AREAS SHALL BE TREATED WITH A PRE-EMERGENT HERBICIDE TO ASSURE THAT WEEDS WILL BE CONTROLLED UTILITY NOTES

- 2. THE CONTRACTOR SHALL NOTIFY ALL UTILITIES TWO BUSINESS DAYS PRIOR TO DEMOLITION AND/OR EXCAVATION. CALL "SUNSHINE STATE ONE CALL SYSTEM"1-800-432-4770 (OR811) SO THAT UNDERGROUND UTILITIES MAY BE FIELD LOCATED.
- AT THE DIRECTION OF THE LANDSCAPE ARCHITECT, TO ADDRESS ANY UTILITY CONFLICTS.

PLANTING NOTES 1. THE LANDSCAPE INSTALLATION MUST BE PROPERLY SEQUENCED WITH OTHER CONSTRUCTION SO THAT THE LANDSCAPE IS NOT DAMAGED BY OTHER WORK/TRADES AND VICE VERSA.

- ADJUSTMENTS.
- SHALL BE REPLACED AT CONTRACTOR'S EXPENSE WITHIN TWO WEEKS OF NOTICE.
- TO ANY PLANT DELIVERY. MEASURING STICKS SHALL BE SHOWN IN PHOTOS, AS APPROPRIATE.
- NOT BE ACCEPTED. NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL FLAG ALL TREE AND BEDLINE LOCATIONS FOR APPROVAL OF LANDSCAPE ARCHITECT PRIOR TO ANY INSTALLATION.
- /REPLACEMENT SHALL BLEND SEAMLESSLY WITH THE EXISTING LANDSCAPE.
- 8. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AND PLANS IN PREPARING PLANTING AREAS, INCLUDING FINAL GRADE ELEVATIONS.
- DOWN. IF TREES HAVE PLASTIC TRUNK PROTECTORS, THE PROTECTORS MAY STAY IN PLACE PRIOR TO PLANTING BUT SHALL NOT BE LEFT ON INDEFINITELY.
- 10. PLANT SHRUBS IN CIRCULAR PITS WITH A DIAMETER 3X DIAMETER OF ROOTBALL OR CONTAINER.
- 11. PLANT TREES IN CIRCULAR PITS WITH A DIAMETER 2X DIAMETER OF ROOTBALL OR CONTAINER.
- 12. FERTILIZE ALL TREES WITH AGRIFORM 21 GRAM TABLETS, SLOW RELEASE 20–10–5 ANALYSIS WITH ONE TABLET PER ½" OF TRUNK DIAMETER
- SHALL NOT BE PERFORMED IF PREVIOUS PUNCH LISTS ARE NOT COMPLETED.
- DURING THIS TIME, AND REPAIRING EROSION AREAS.
- 15. THE CONTRACTOR SHALL SUPPLY THE LANDSCAPE ARCHITECT WITH ELECTRONIC AS-BUILT DRAWINGS WITHIN 30 DAYS OF PROJECT ACCEPTANCE.
- ADDITIONAL REQUIREMENTS.
- 17. ONE YEAR WARRANTY ON ALL PLANTS AND LABOR
- MANAGEMENT.

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PLANS AND WRITTEN NOTES. NO SUBSTITUTIONS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL BY THE LANDSCAPE

2. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE

3. LANDSCAPE MATERIALS SHALL BE ADJUSTED IN THE FIELD TO AVOID CONFLICTS WITH ANY PROPOSED OR REMAINING UTILITY STRUCTURES, DRAINAGE STRUCTURES, DITCHES, UNDER DRAINS, DITCH BLOCKS, STORM WATER FACILITIES AND DRAINAGE DISCHARGE PATHS, EXISTING SIGNAGE, AND EXISTING LIGHTING AND THEIR APPURTENANCES. THE CONTRACTOR SHALL NOT INSTALL THE PROPOSED IMPROVEMENTS IF A CONFLICT EXISTS. ANY COSTS TO REMOVE AND/OR REPAIR WORK ADJUSTED THAT HAS NOT BEEN APPROVED PREVIOUSLY

4. LANDSCAPE IMPROVEMENTS SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE MOST CURRENT FDOT STANDARD SPECIFICATION 580, AND ANY OTHER PLANTING

5. PLANT QUANTITIES SHOWN ON THE LANDSCAPE PLAN ARE MINIMUM ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE CONTRACTOR'S OWN QUANTITY TAKE-OFF, AND SHALL

6. PLANTING FOR ALL PLANT MATERIAL AND THE PROTECTION OF EXISTING TREES TO REMAIN SHALL BE IN ACCORDANCE WITH THE MOST CURRENT FDOT DESIGN STANDARD INDEX

7. THE CONTRACTOR SHALL INSURE THAT, PRIOR TO MOVING ON SITE, ALL EQUIPMENT WHICH LAST OPERATED IN PLACES KNOW TO BE INFESTED WITH NOXIOUS WEEDS IS FREE OF

8. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE JOB SITE. IF THE CONTRACTOR NEEDS HAZARDOUS MATERIALS TO PERFORM THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, ADVANCE PERMISSION FROM THE OWNER. IF ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL IS FOUND ON THE PROJECT, THE

9. ANY PUBLIC LAND SURVEY SYSTEM CORNER OR ANY MONUMENT THAT PERPETUATES THE RIGHT-OF-WAY WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED BY THE

3. CONTRACTOR SHALL CONFIRM ALL PLANTING BEDS ARE NOT COMPACTED BEYOND 85 PERCENT TO ENSURE DRAINAGE. SHOULD COMPACTED SOILS EXIST, SOILS SHALL BE EXCAVATED AND REPLACED WITH WELL-DRAINING SOIL PRIOR TO MOBILIZATION OF PLANTING CONTRACTOR. NO PARKING LOT SUB-BASE, ASPHALT MATERIAL OR CONCRETE SPOILS

4. ALL EXISTING VEGETATION SHALL BE REMOVED IN ALL PLANTING BED AREAS UNLESS OTHERWISE NOTED ON THE PLANS. HERBICIDE MANUFACTURER SPECIFICATIONS AND INSTRUCTIONS SHALL BE FOLLOWED AS TO TREATMENT DILUTION, MIX, APPLICATION, AND TIME PERIODS BETWEEN APPLICATIONS AS APPLICABLE TO ASSURE WEEDS ARE ELIMINATED FROM THE PLANTING BEDS PRIOR TO COMMENCING PLANTING. ALL PERSONNEL INVOLVED IN THE CHEMICAL PROGRAM ARE TO RECEIVE THE PROPER TRAINING AND LICENSURE, AND FOLLOW THE OPERATING GUIDELINES PROVIDED BY FDOT FOR CHEMICAL CONTROL. CONTACT THE ESCAMBIA COUNTY EXTENSION SERVICE FOR ADDITIONAL INFORMATION

5. REPRESENTATIVE SOIL SAMPLES (3 MINIMUM) FROM VARYING AREAS THROUGHOUT THE PROJECT SHALL BE TAKEN AND PROVIDED TO THE OWNER'S REPRESENTATIVE PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY IMPROPER SOIL CONDITION INCLUDING NUTRITIONAL DEFICIENCIES, WETNESS, MUCK, DEBRIS, ETC. AND SHALL RECOMMEND TO THE LANDSCAPE ARCHITECT, PRIOR TO INSTALLATION, ALL SOIL AMENDMENTS THAT MAY BE NECESSARY TO PROMOTE HEALTHY VIGOROUS PLANT GROWTH. THE SOIL SAMPLE TEST RESULTS SHALL INCLUDE, AT A MINIMUM, PH, PRIMARY MACRONUTRIENTS, MICRONUTRIENTS, PERCENTAGE OF ORGANIC MATTER, AND SOIL TEXTURE. SUBMIT ALL SOIL SAMPLES AND AMENDMENT RECOMMENDATIONS TO THE LANDSCAPE ARCHITECT FOR REVIEW. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR ALL APPROPRIATE SOIL AMENDMENTS AND A PROPERLY PREPARED FINISHED SOIL LAYER IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS 162 AND 967. 6. ALL SOIL AMENDMENTS SHALL BE ADDED TO THE PLANTING BEDS AND INCORPORATED INTO THE SOIL PRIOR TO COMMENCING FINAL GRADING AND PLANTING. ALL BEDS SHALL BE

1. THE LOCATIONS OF THE UTILITIES SHOWN ON THE PLANS SHOULD BE CONSIDERED APPROXIMATE ONLY, AND INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.

3. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES DURING CONSTRUCTION. NO UTILITY IS TO BE RELOCATED. PLANTING SHALL BE ADJUSTED HORIZONTALLY,

2. THE CONTRACTOR SHALL VERIFY THE EXISTENCE OF AND STAKE ALL UTILITIES PRIOR TO CONSTRUCTION. EXCAVATION OF PLANT PITS LOCATED WITHIN 5' OF UTILITIES SHALL BE PERFORMED BY HAND. ANY UTILITY AND PLANT MATERIAL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION, OR FIELD

3. ALL PLANTS SHALL MEET SIZE, CONTAINER, AND SPACING SPECIFICATIONS AS SHOWN IN THE PLANT SCHEDULE. THE CONTRACTOR SHALL GUARANTEE PLANT HEALTH AND SURVIVABILITY FOR ONE YEAR FROM DATE OF PROJECT ACCEPTANCE BY THE LANDSCAPE ARCHITECT. ANY MATERIAL NOT MEETING SPECIFICATIONS OR DISPLAYING POOR HEALTH

4. ALL PLANT MATERIAL SHALL BE FLORIDA NO. 1 OR BETTER, UNLESS OTHERWISE NOTED, AS SET FORTH IN THE CURRENT EDITION OF THE 'GRADES AND STANDARDS FOR NURSERY PLANTS,' STATE OF FLORIDA. NOTIFY THE LANDSCAPE ARCHITECT A MINIMUM OF ONE WEEK PRIOR TO PLANT DELIVERY TO SCHEDULE ON-SITE INSPECTION UPON DELIVERY. INSTALLED PLANT MATERIAL NOT MEETING SPECIFICATIONS SHALL BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE. ALL PLANTS MUST BE BROUGHT TO THE SITE FREE OF WEEDS. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE THE LANDSCAPE ARCHITECT WITH REPRESENTATIVE PLANT PHOTOS TO APPROVE FOR ALL PLANT MATERIALS PRIOR

5. ALL PLANT MATERIALS INDICATED WITH A GALLON SIZE SHALL BE CONTAINER GROWN AND WITHIN A CONTAINER APPROPRIATE FOR THE PLANT SIZE. ROOT BOUND PLANTS SHALL

6. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE PLANTING BED FIELD CHANGES TO ACCOMMODATE SITE CONDITIONS AND TO ACHIEVE THE DESIGN INTENT. THE

7. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING VEGETATION INTENDED TO REMAIN THAT IS DISTURBED BY PLANT MATERIAL INSTALLATION ACTIVITIES. THIS REPAIR

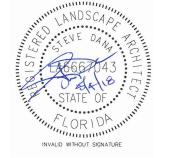
9. ALL PLANT MATERIAL MUST BE PLANTED IMMEDIATELY UPON DELIVERY TO THE SITE AND WATERED IN, BY HAND IF THE IRRIGATION SYSTEM IS NOT YET FUNCTIONING PROPERLY. ANY PLANT MATERIAL NOT INSTALLED WITHIN 6 HOURS OF DELIVERY TO THE SITE MUST BE STORED IN AN APPROVED, PROTECTED HOLDING AREA AND SHALL BE WATERED AS NECESSARY TO MAINTAIN PLANT HEALTH AND QUALITY. ALL BLACK PLASTIC PLACED AROUND TREE ROOTBALLS SHALL BE REMOVED IMMEDIATELY UPON DELIVERY TO THE SITE, BURLAP WRAPPING SHALL STAY IN PLACE. FOR TREES NOT PLANTED WITHIN 6 HOURS OF DELIVERY TO THE SITE, WATER SHALL BE IMMEDIATELY APPLIED TO THE ROOTBALL AND FOLIAGE. THE TOPS SHALL BE UNTIED AND THE TREES STORED UPRIGHT WITH MULCH. PINE STRAW OR HAY COVERING THE ROOTBALLS. TREES SHALL NOT BE STORED LYING

13. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT A MINIMUM OF 48 HOURS PRIOR TO COMPLETION TO SCHEDULE A FINAL WALKTHROUGH. A FINAL WALKTHROUGH

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL PLANTING AND GRADES UNTIL FINAL ACCEPTANCE BY THE LANDSCAPE ARCHITECT. THIS MAINTENANCE INCLUDES KEEPING BEDS FREE OF DEBRIS, WEEDS, DISEASES, AND INFESTATIONS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROVIDING SUFFICIENT WATER TO THE PLANTS

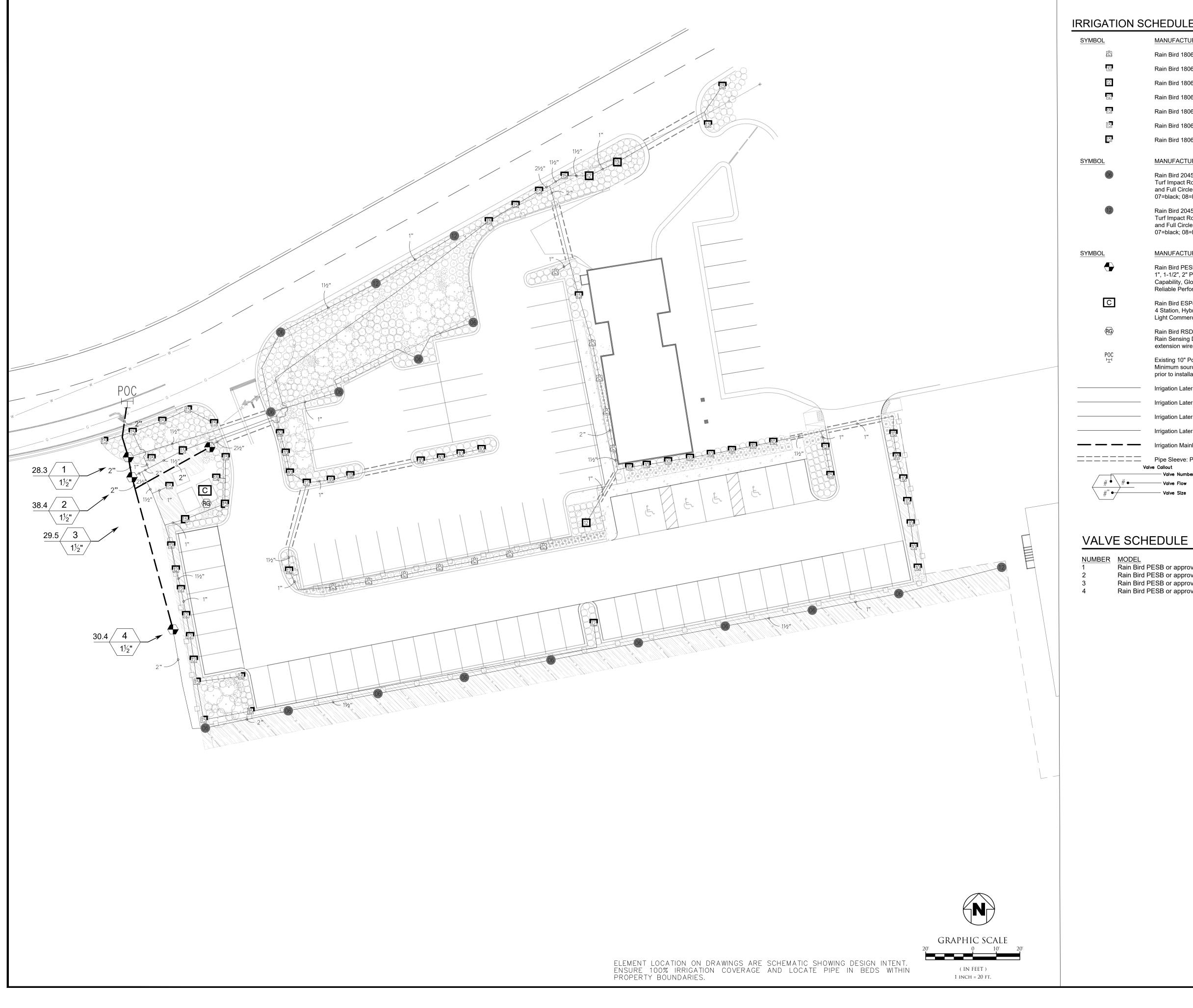
16. REFER TO CURRENT FDOT STANDARD SPECIFICATIONS AND DESIGN STANDARD INDICES, THE GENERAL NOTES, AND ALL OTHER NOTES WITHIN THE CONTRACT DOCUMENTS FOR

18. SAND FENCING SHALL CONFORM TO "SAND FENCING GUIDELINES" AS PUBLISHED BY FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION-DIVISION OF WATER RESOURCE



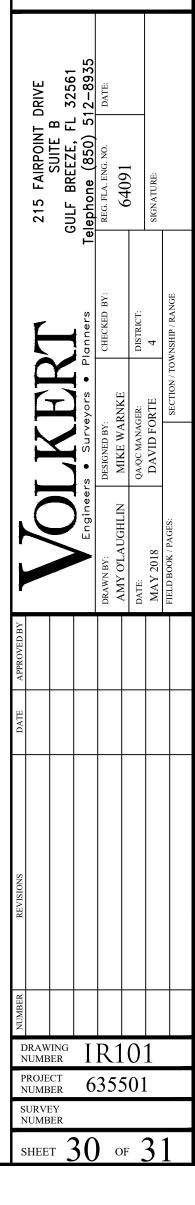


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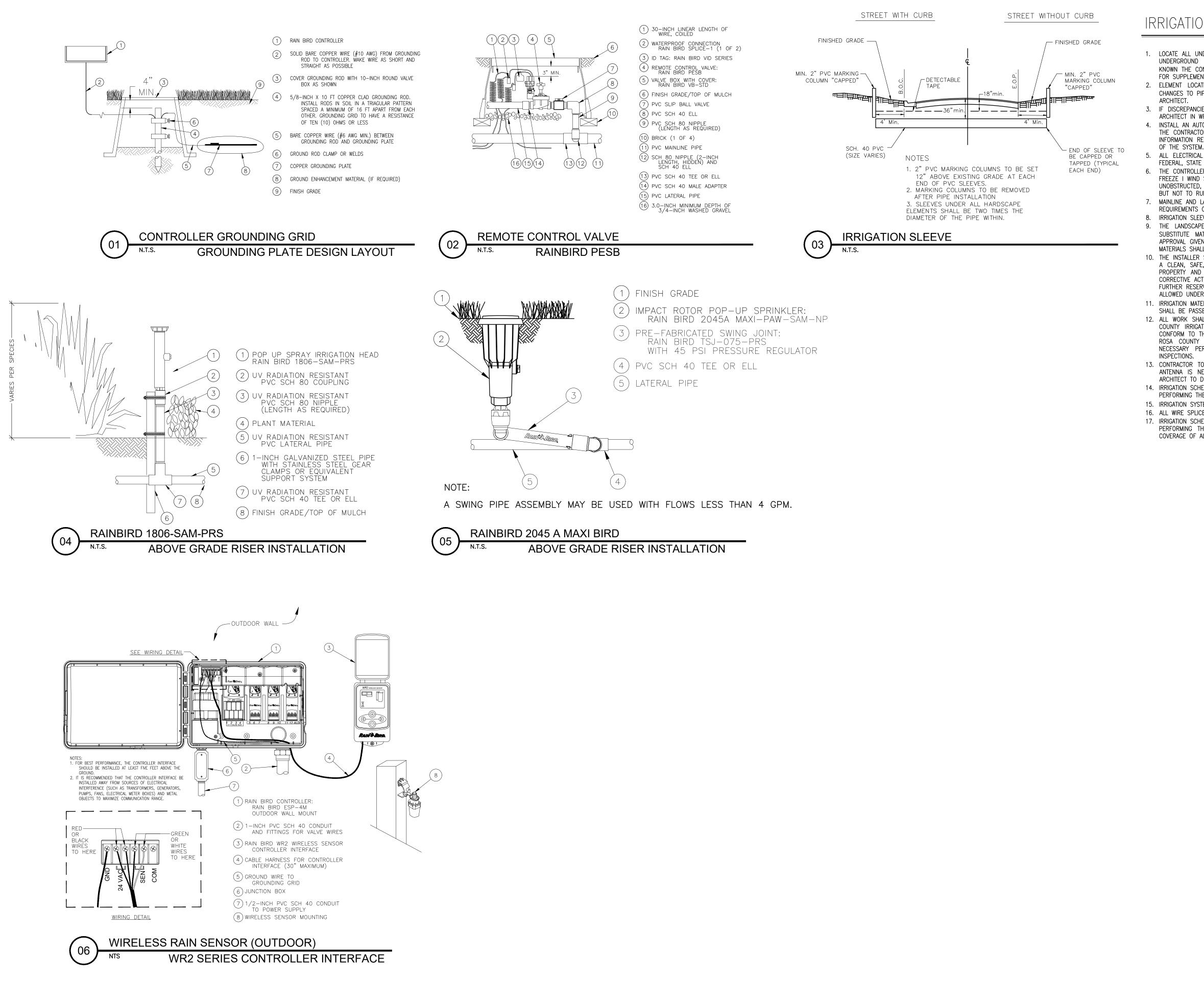
HEDULE									
MANUFACTURER/MODEL	QTY	ARC	PSI	<u>GPM</u>	RADIUS				Z
Rain Bird 1806-SAM-PRS 15 Strip Series or approved equal	12	CST	15	0.89	4'x30'				LA
Rain Bird 1806-SAM-PRS 10 Series MPR or approved equal	24	180	15	0.58	7'	LS I			Δ
Rain Bird 1806-SAM-PRS 12 Series MPR or approved equal	3	360	15	1.67	9'	Ш	Ζ		Z
Rain Bird 1806-SAM-PRS 12 Series MPR or approved equal	10	180	15	0.90	9'	I g	A	ΈA	Ω
Rain Bird 1806-SAM-PRS 15 Series MPR or approved equal	15	180	15	1.30	11'		J.	AR	Ľ
Rain Bird 1806-SAM-PRS 15 Series MPR or approved equal	6	90	15	0.65	11'			ŊŊ	
Rain Bird 1806-SAM-PRS 15 Series MPR or approved equal	3	270	15	1.95	11'	H (Z	RKI	RI
MANUFACTURER/MODEL/DESCRIPTION	<u>QTY</u>		<u>PSI</u>	<u>GPM</u>	RADIUS	V	ЛE	H PA	IR
Rain Bird 2045A 06 or approved equal Turf Impact Rotor, Pop-Up Sprinkler, Open Case, Adjustable and Full Circle. With Precision Jet Tube. Nozzles: 06=red; 07=black; 08=blue; 10=yellow; 12=beige.	14		55	2.50	38'	BEA	GEN	BEACH	LARY
Rain Bird 2045A 12 or approved equal Turf Impact Rotor, Pop-Up Sprinkler, Open Case, Adjustable and Full Circle. With Precision Jet Tube. Nozzles: 06=red; 07=black; 08=blue; 10=yellow; 12=beige.	3		55	7.90	45'	COLA	IANA	CASINO	EMPOF
MANUFACTURER/MODEL/DESCRIPTION	QTY								ЦП
Rain Bird PESB 1-1/2" or approved equal 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration. With Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications.	4					ENS/			00%
Rain Bird ESP4ME or approved equal 4 Station, Hybrid Modular Outdoor Controller. For Residential or Light Commercial Applications.	1					P d			
Rain Bird RSD-CEx or approved equal Rain Sensing Device, conduit mount. With threaded adapter, extension wire.	1						INT		
Existing 10" Potable Water Service Line. Connection Per Minimum source data: 50GPM @ 70 PSI. Contractor shall verity prior to installation.	1					CO			R I D F
Irrigation Lateral Line: PVC Schedule 40 1"	1,056 l.f.					Y B	4		07
Irrigation Lateral Line: PVC Schedule 40 1 1/2"	675.6 l.f.						4JS	E	
Irrigation Lateral Line: PVC Schedule 40 2"	202.6 l.f.								
Irrigation Lateral Line: PVC Schedule 40 2 1/2"	200.0 l.f.								
Irrigation Mainline: PVC Schedule 40 2"	131.4 l.f.						1 35		
Pipe Sleeve: PVC Schedule 40 ve Callout	153.4 l.f.						3256 12-89	DALE	
Valve Number Valve Flow						. m.) 2 H		
Valve Size						SUI	BREEZE, e (850		IRE:

	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
ESB or approved equal	1-1/2"	Turf Impact	28.30	61.66	61.81	0.76 in/h
ESB or approved equal	1-1/2"	Turf Spray	38.40	19.82	20.19	0.91 in/h
ESB or approved equal	1-1/2"	Turf Spray	29.46	20.09	20.61	0.75 in/h
ESB or approved equal	1-1/2"	Turf Impact	30.40	63.95	64.72	0.55 in/h









IRRIGATION NOTES:

1. LOCATE ALL UNDERGROUND UTILITIES, ELECTRICAL WIRING, WATER, SEWER, TELEPHONE, CABLE TV, AND OTHER UNDERGROUND LINES BEFORE LANDSCAPE AND IRRIGATION INSTALLATION. SHOULD ANY CONFLICT BECOME KNOWN THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT IN WRITING FOR SUPPLEMENTAL INSTRUCTIONS.

2. ELEMENT LOCATION ON THE DRAWINGS IS SCHEMATIC SHOWING INTENT. CONTRACTOR SHALL NOT MAKE CHANGES TO PIPE SIZING OR ROUTING WITHOUT PRIOR APPROVAL OF OWNER'S REPRESENTATIVE OR LANDSCAPE 3. IF DISCREPANCIES OCCUR BETWEEN THE PLANS, NOTES, AND ACTUAL CONDITIONS CONTACT THE LANDSCAPE

ARCHITECT IN WRITING FOR CLARIFICATION BEFORE PROCEEDING. 4. INSTALL AN AUTOMATIC IRRIGATION SYSTEM TO ENSURE 100% COVERAGE OF ALL PLANTED AND GRASSED AREAS. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS TO LANDSCAPE ARCHITECT AND OWNER SHOWING ALL INFORMATION REQUIRED BY LOCAL CODES AND NECESSARY FOR THE EFFICIENT OPERATION AND MAINTENANCE

5. ALL ELECTRICAL WIRE ASSOCIATED WITH THE IRRIGATION SYSTEM SHALL CONFORM TO THE ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES.

6. THE CONTROLLER SHALL BE EQUIPPED BY THE CONTRACTOR WITH PROPERLY LOCATED AND INSTALLED RAIN I FREEZE I WIND SHUTOFF SENSORS. THE SENSORS SHALL BE LOCATED IN SUCH A MANNER SO THAT THEY ARE UNOBSTRUCTED, AND DIRECTLY EXPOSED TO NATURAL RAINFALL, WIND, AND SUNLIGHT FROM ALL DIRECTIONS, BUT NOT TO RUNOFF WATER FROM SWALES OR OTHER SURFACES.

7. MAINLINE AND LATERAL PIPING SHALL BE SCH 40 PVC WITH GLUE FITTINGS. SHALL BE GLUED FOLLOWING THE REQUIREMENTS OF THE PIPE AND FITTING MANUFACTURERS, AND COUNTY PLUMBING ORDINANCE. 8. IRRIGATION SLEEVING SHALL BE SCHEDULE 40, 2X TOTAL PIPE DIAMETER UNLESS OTHERWISE NOTED.

9. THE LANDSCAPE BID SHALL BE FOR THE IRRIGATION MATERIALS SPECIFIED. REQUESTS TO USE EQUAL, SUBSTITUTE MATERIALS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT IN WRITING AND OWNER'S APPROVAL GIVEN IN WRITING BEFORE THE SUBSTITUTION IS ALLOWED. REQUESTS TO USE EQUAL, SUBSTITUTE MATERIALS SHALL INCLUDE COMPLETE PRODUCT SPECIFICATIONS AND ANY COST SAVINGS TO THE PROJECT.

10. THE INSTALLER SHALL BE FAMILIAR WITH ALL REQUIREMENTS FOR THE WORK, AND TO CONDUCT HIS WORK IN A CLEAN, SAFE, AND WORKMANLIKE MANNER. THE OWNER RESERVES THE RIGHT TO ACT TO PROTECT HIS PROPERTY AND THE OTHER PERSONNEL AT WORK THERE, AND TO MAKE EMERGENCY REPAIRS OR TAKE CORRECTIVE ACTION IF THE INSTALLER DOES NOT FULFILL HIS OBLIGATIONS IN A TIMELY MANNER. THE OWNER FURTHER RESERVES THE RIGHT TO BACK-CHARGE THE INSTALLER TO COVER SUCH EXPENSES, TO THE EXTENT ALLOWED UNDER APPLICABLE LAW.

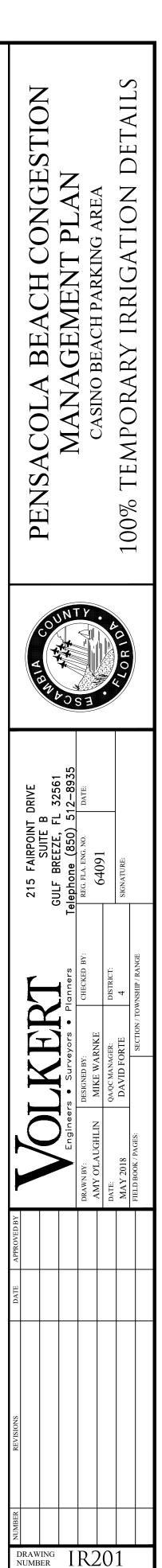
11. IRRIGATION MATERIALS AND WORKMANSHIP SHALL BE WARRANTIED FOR ONE YEAR. MANUFACTURER'S WARRANTIES SHALL BE PASSED TO THE OWNER.

12. ALL WORK SHALL BE DONE IN ACCORDANCE WITH PREVAILING CODES AND REGULATIONS, AND SANTA ROSA COUNTY IRRIGATION STANDARDS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND CONFORM TO THE PARTICULAR CODES AND REGULATIONS APPLICABLE TO THIS LOCATION, AS WELL AS SANTA ROSA COUNTY IRRIGATION STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, INCLUDING THOSE FOR ANY NEW WATER LINE TAPS OR WELLS, LOCATES, AND

13. CONTRACTOR TO PROVIDE SITE SURVEY TO VERIFY RADIO SIGNAL STRENGTH. IF SURVEY SHOWS THAT AN ANTENNA IS NECESSARY, CONTRACTOR SHALL COORDINATE WITH THE PROJECT LANDSCAPE ARCHITECT AND ARCHITECT TO DETERMINE LOCATION FOR ANTENNA INSTALLATION. 14. IRRIGATION SCHEDULES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR

PERFORMING THEIR OWN TAKE OFF BASED ON PLAN DOCUMENTS. 15. IRRIGATION SYSTEM AND ITS COMPONENTS SHALL BE INSTALLED ACCORDING TO MANUFACTURES' SPECIFICATIONS. 16. ALL WIRE SPLICES SHALL OCCUR IN A VALVE BOX WITH DBR WATERPROOF WIRE SPLICE KITS.

17. IRRIGATION SCHEDULES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR PERFORMING THEIR OWN TAKE OFF BASED ON PLAN DOCUMENTS & SPECIFICATIONS ENSURING UNIFORM COVERAGE OF ALL LANDSCAPED AREAS.







PROJECT 635501

OF **3**

SURVEY NUMBER

SHEET 3