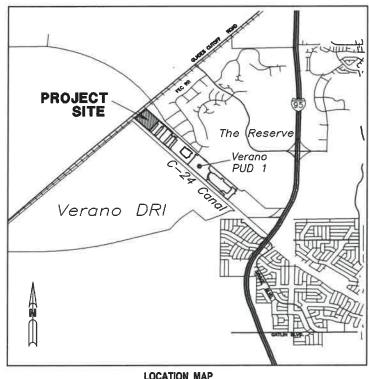
VERANO P.U.D. NO. 1, PLAT NO. 22

DEVELOPER

VERANO DEVELOPMENT, LLC 10911 S.W. VISCONTI WAY PORT ST. LUCIE, FL 34986 PHONE: 772-467-1299 FAX: 772-467-1858

DESCRIPTION	FOUND (YES/NO)	AGENCY CONTACT INFORMATION	MANAGEMENT PLAN (YES/NO)	RELOCATION PLAN (YES/NO)
WETLANDS				
RARE HABITAT				
THREATENED SPECIES				
ENDANGERED SPECIES				
SPECIES OF SPECIAL CONCERN				
INVASIVE / EXOTIC VEGETATION				

ENVIRONMENTAL ASSESSEMENT HAS BEEN ADDRESSED UNDER THE OVERALL DRITHEREFORE NO ADDITIONAL ENVIRONMENTAL REPORT IS REQUIRED



LOCATION MAP
N.T.S.
SECS. 28 & 29 TWP 36 S RGE 39 E
PREPARED BY:

ARCADIS U.S., Inc.

1500 Gateway Boulevard, Suite 200 Boynton Beach, Florida 33426 Tel: (561) 697-7000 Fax: (561) 369-4731 www.arcadis.com EB 7917 / LB 7062

INDEX OF SHEETS

DESCRIPTION
COVER SHEET
PAVING, GRADING, AND DRAINAGE PLANS
PAVING, GRADING, AND DRAINAGE DETAILS
STORMWATER POLLUTION PREVENTION PLAN
STORMWATER POLLUTION PREVENTION DETAILS

REVISIONS:

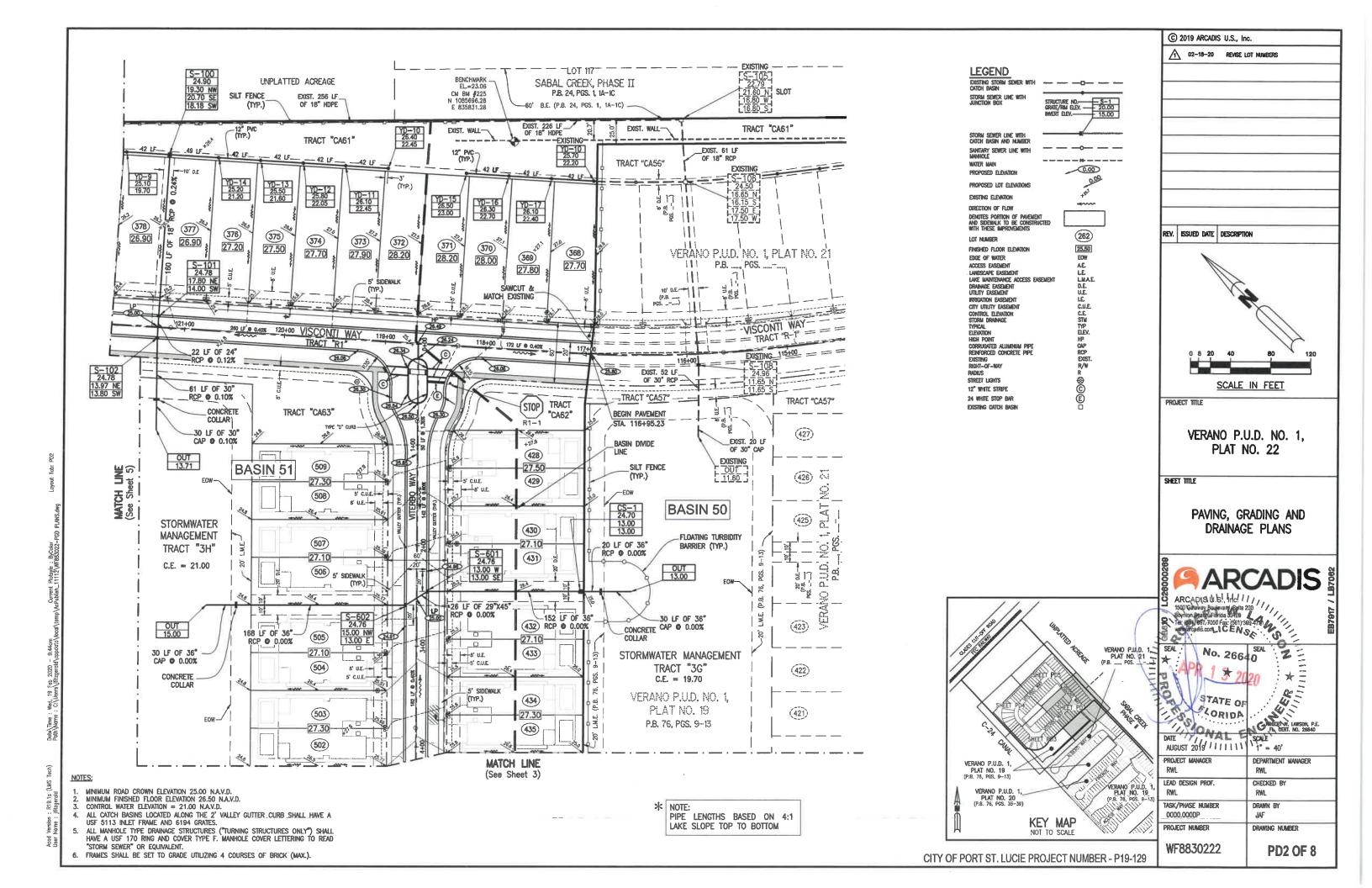


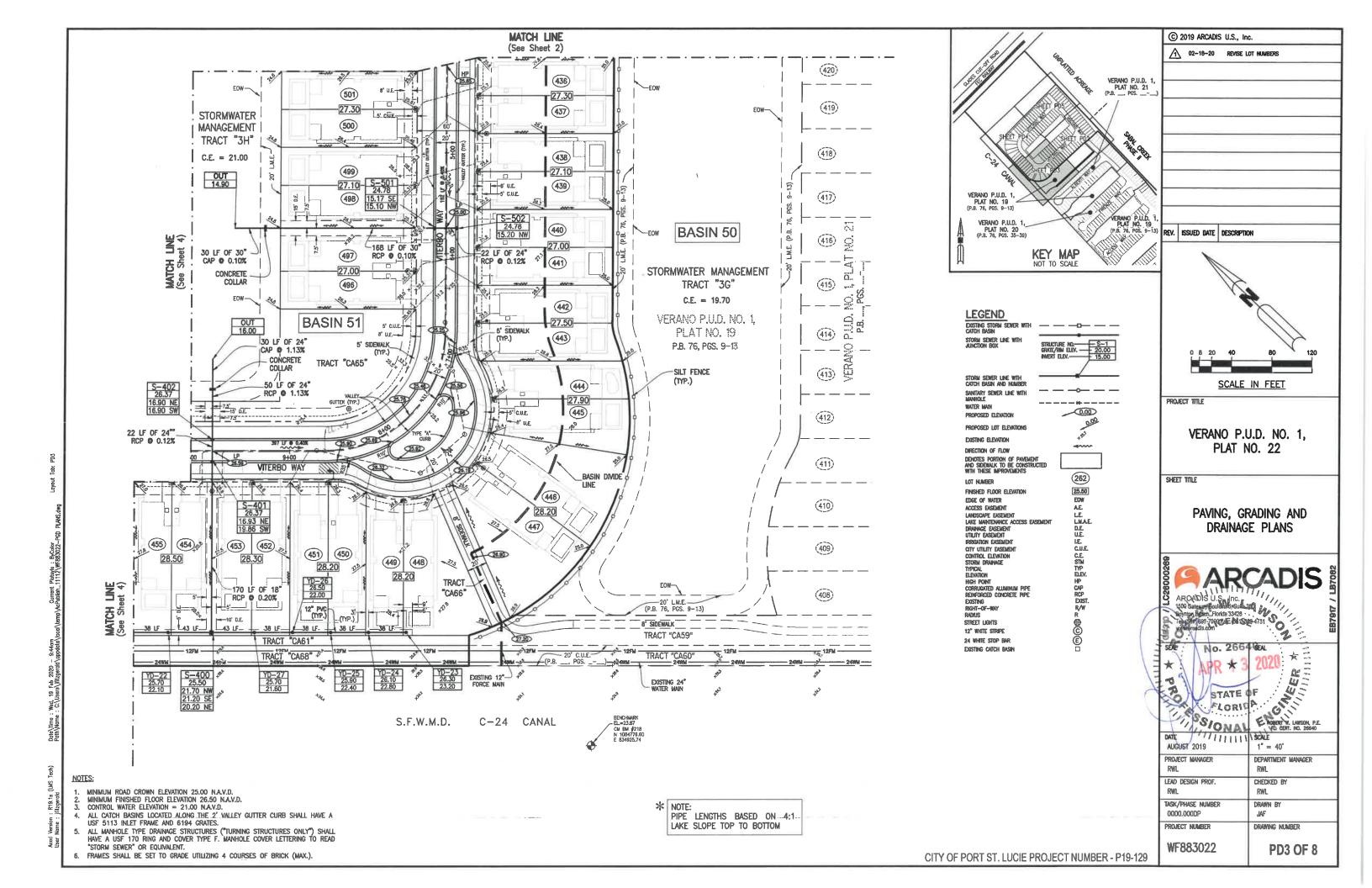
NOTE: ALL ELEVATIONS SHOWN ON PLANS ARE BASED ON NAVD (1988) DATUM

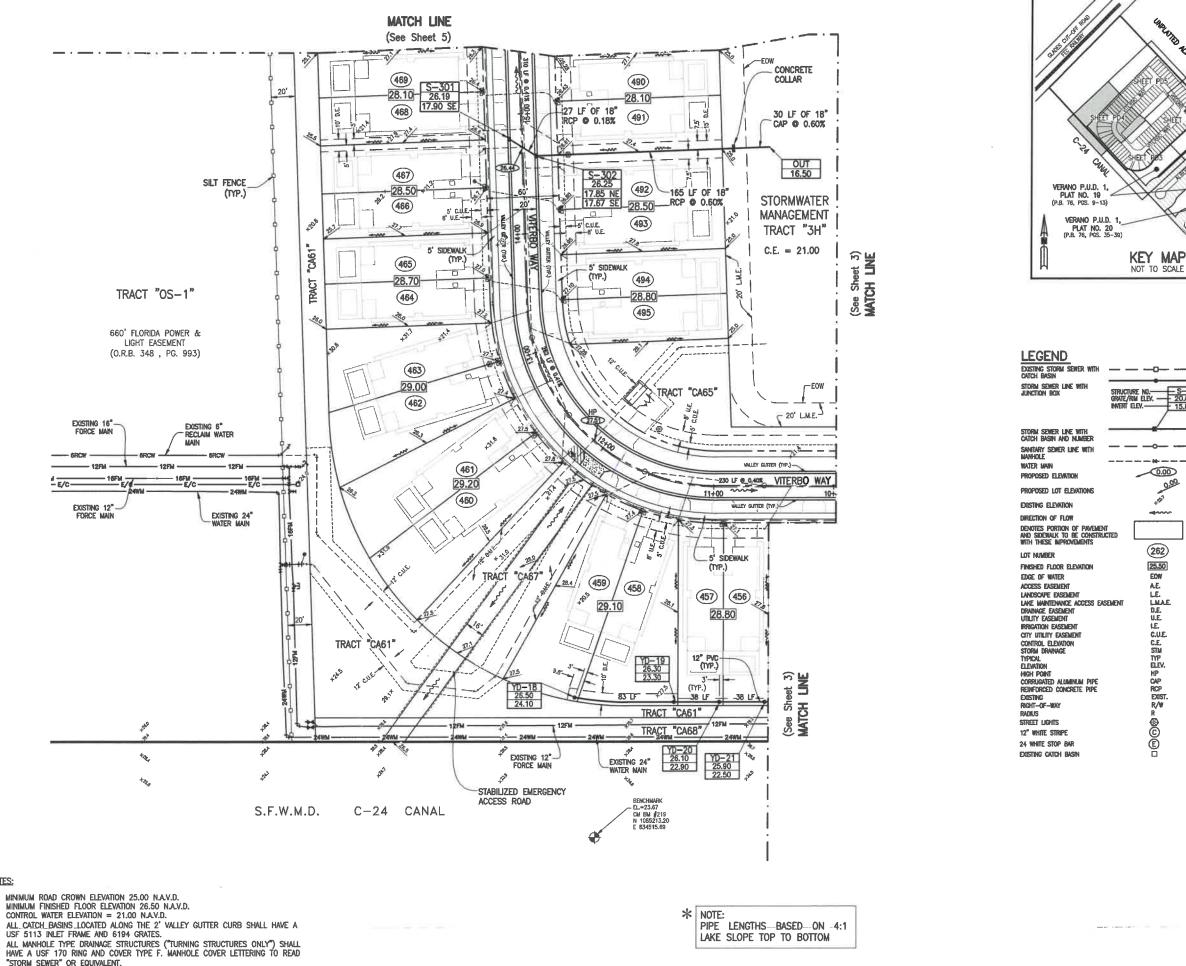
CITY OF PORT ST. LUCIE PROJECT NUMBER - P19-129

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CITY OF BODT ST. I.I





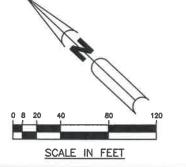


VERANO P.U.D. 1 PLAT NO. 21 (P.B. __, PGS. __-_ KEY MAP NOT TO SCALE

© 2019 ARCADIS U.S., Inc. 1 02-18-20 REVISE LOT NUMBERS PLAT NO. 19.

(P.S. 76, POS. 9-13)

REV. ISSUED DATE DESCRIPTION

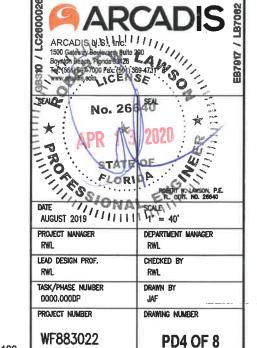


PROJECT TITLE

VERANO P.U.D. NO. 1, PLAT NO. 22

SHEET TITLE

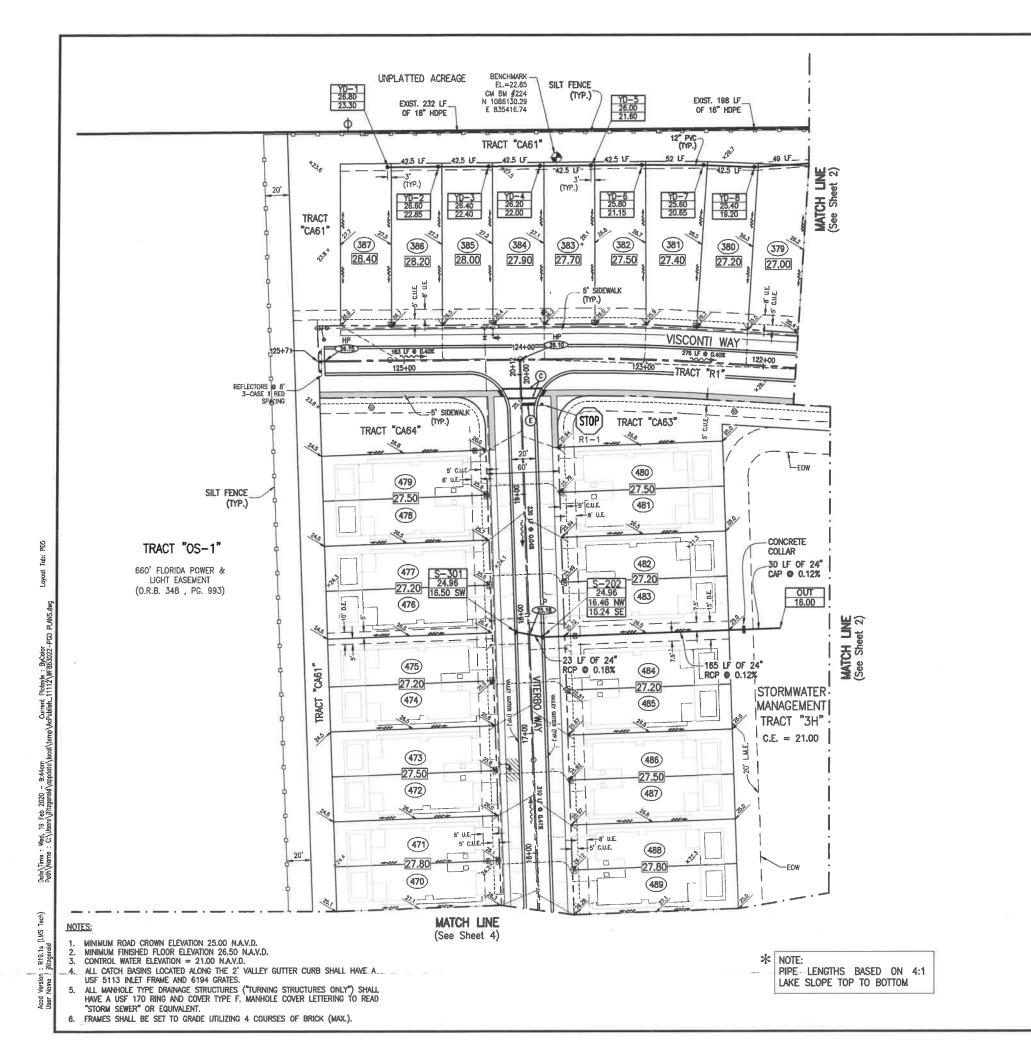
PAVING, GRADING AND DRAINAGE PLANS

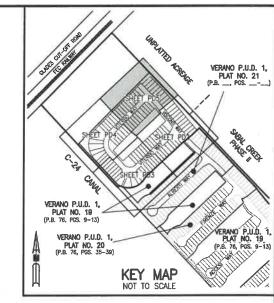


ALL_CATCH_BASINS_LOCATED ALONG THE 2' VALLEY GUTTER CURB SHALL HAVE A USF 5113 INLET FRAME AND 6194 GRATES.

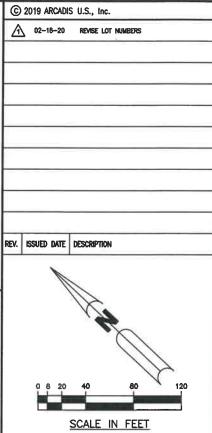
FRAMES SHALL BE SET TO GRADE UTILIZING 4 COURSES OF BRICK (MAX.).

CITY OF PORT ST. LUCIE PROJECT NUMBER - P19-129





LEGEND EXISTING STORM SEVER CATCH BASIN STORM SEWER LINE WITH JUNCTION BOX STORM SEWER LINE WITH CATCH BASIN AND NUMBER SANITARY SEWER LINE WITH WATER MAIN 0.00 PROPOSED ELEVATION EXISTING ELEVATION 262 LOT NUMBER 25.50 FINISHED FLOOR ELEVATION EDGE OF WATER A.E. ACCESS EASEMENT LE.
LMAE.
D.E.
U.E.
C.U.E.
C.U.E.
STM
TYP
ELEV.
HP
CAP
RCP
ERST.
R/W
R LAKE MAINTENANCE ACCESS EASEMENT DRAINAGE EASEMENT UTILITY EASEMENT IRRIGATION EASEMENT CITY UTILITY EASEMENT CONTROL ELEVATION STORM DRAINAGE TYPICAL HIGH POINT CORRUGATED ALUMINUM PIPE REINFORCED CONCRETE PIPE EXISTING RIGHT-OF-WAY STREET LIGHTS 12" WHITE STRIPE 24 WHITE STOP BAR EXISTING CATCH BASIN



PROJECT TITLE

VERANO P.U.D. NO. 1, PLAT NO. 22

SHEET TITLE

PAVING, GRADING AND DRAINAGE PLANS



CITY OF PORT ST. LUCIE PROJECT NUMBER - P19-129

3. SEQUENCE OF CONSTRUCTION - THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND THAT

4. THE CONTRACTOR SHALL CALL SUNSHINE 1-800-432-4770 48 HOURS BEFORE DIGGING FOR FIELD LOCATIONS OF UNDERGROUND UTILITIES.

5. AS-BULTS - THE CONTRACTOR SHALL COMPLETE "AS-BULT" INFORMATION RELATIVE TO LOCATION OF THE INLETS AND MANHOLES, THEIR INVERTS AND RIM ELEVATIONS, AND THE LOCATIONS OF UTILITIES AND UTILITY SERVICES.

6. GUARANTY — ALL MATERIAL AND EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE THEREOF, AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMARSHIP. UPON RECEIPT OF NOTICE FROM THE OWNER OF FAILURE OF ANY PART OF THE GUARANTEED EQUIPMENT OR METERIALS, DIVING THE GUARANTY PERIOD, THE AFFECTED PART, PARTS OR MATERIALS SHALL BE REPURED OR REPLACED BY THE CONTRACTOR AT NO EXPOSE TO THE OWNER. IN THE EVENT THE CONTRACTOR FAILS TO MAKE THE RECESSARY REPLACEMENT OR REPAIRS WITHIN SEVEN DAYS AFTER NOTIFICATION BY THE OWNER, THE OWNER MAY ACCOMPUSH THE WORK AT THE EXPENSE OF THE CONTRACTOR.

- 7. ELEVATIONS ALL ELEVATIONS REFER TO NAVD 1988 DATUM.
- 8. BENCHMARKS SHOWN ON PAVING, GRADING AND DRAINAGE PLAN SHEETS.
- 9. GRADES SHOWN ARE FINISHED GRADES.
- 10. GRATE ELEVATIONS REFER TO THE EDGE OF PAVEMENT SIDE OF THE GRATE (SEE DETAIL).
- 11 MINIMUM POAD OROWN ELEVATION IS ELEVATION 24.00 NAVO.
- 12. THE MINMUM FINISH FLOOR ELEVATION, FOR ANY RESIDENTIAL STRUCTURE IS ELEVATION 25.50 NAVID (MHICH IS ABOVE THE PROJECTED FLOOD STAGE PRODUCED BY THE ONE IN ONE HUNDRED YEAR FREQUENCY STORM) OR 18 INCHES ABOVE THE CROWN OF ROAD WHICHEVER IS HIGHER.
- 13. CLEARING AND GRUBBING WITHIN THE LIMITS OF CONSTRUCTION, ALL VEGETATION AND ROOT MATERIAL SHALL BE REMOVED.
- 14, GUIBO WHERE GUIBO OR OTHER PLASTIC CLAYS ARE ENCOUNTERED, THEY SHALL BE REMOVED WITHIN THE ROADWAY AND PARKING AREAS ONE FOOT BELOW THE SUBGRADE EXTENDING HORIZONTALLY TO THE OUTSIDE EDGE OF THE SHOULDER AREA.
- 15. HARDPAN IF HARDPAN IS ENCOUNTERED IN THE SWALE AREA, IT WILL BE RENOVED TO A WIDTH OF TWO FEET AT THE SWALE INVERT AND REPLACED WITH GRANULAR MATERIAL.

16. MUCK AND PEAT — IF MUCK AND/OR PEAT ARE ENCOUNTERED IN THE ROAD OR PARKING AREA, THEY WILL BE REMOVED COMPLETELY TO A WIDTH OF TEN FEET BEYOND THE EDGE OF PAVEMENT AND SHALL BE BACKFILLED WITH GRANULAR MATERIAL.

17. WHERE SOD IS DESIRED, LOWER THE GROUND 2 INCHES BELOW THE FINSHED GRADE TO ALLOW FOR THE THICKNESS OF THE SOD. 18. BACKFILL

- REQUIREMENTS FOR PIPE AND DITCH BACKFILL CROSSING ROADS, PARKING AREAS, OR STRUCTURES SHALL BE DEFINED IN THE FLORIDA D.O.T.

SPECIFICATIONS, LATEST EDITION, PIPELINE BACKFILL SHALL BE PLACED IN SIX INCH LIFTS AND COMPACTED TO 100% OF THE STANDARD PROCTOR
(AAS.N.T.O.) T—99 SPECIFICATIONS.

18. UTILITIES — IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE EXACT LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES, WHETHER SHOWN OR NOT, PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION. NOTIFY ENSINEER PRIOR TO CONSTRUCTION OF ANY BENATION FROM WHAT IS SHOWN ON THE PLAN.

- 20. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR, BUT NOT LIMITED TO, ALL PIPE, DRAINAGE STRUCTURES, GRATES, FRAMES AND COVERS.
- 21. STORM SEWER PIPE SHALL BE PAID BASED ON MEASUREMENT FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- 22. WHERE CONNECTIONS TO AN EXISTING DRAINAGE SYSTEM ARE PROPOSED, SAID EXISTING DRAINAGE STRUCTURES AND LINES SHALL BE CLEANED OF ALL SILT AND OTHER DEBRS PRIOR TO SAID CONNECTIONS BEING MADE, AND WHERE THE EXISTING DRAINAGE SYSTEM INCLIDES DITCHES, SAID DITCHES SHALL BE CLEARED AND REWORKED, AS NECESSARY, TO RESTORE THEM TO AN APPROVED DESIGN SECTION. SYSTEMS ARE TO BE CLEANED AND/OR GRADED TO THE POINT OF LEGAL POSTING OUTFALL.
- 23. ALL PIPE LENGTHS AND CENTERLINE SLOPE LENGTHS SHOWN ON THESE DRAWINGS ARE SCALED DISTANCES. THE CONTRACTOR SHALL CONFIRM
 ALL MEASUREMENTS IN THE FIELD AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCY WITH THE DRAWINGS PRIOR TO PERFORMING THE

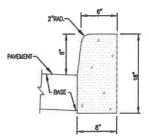
24. INLETS AND MANHOLES - ALL INLETS AND MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH FLORIDA D.O.T. STANDARDS SPECIFICATIONS, LATEST EDITION AND ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION, AND THE CITY OF PORT ST. LUCIE STANDARDS, LATEST EDITION.

25. CORRUGATED ALUMINUM PIPE — THE PIPE SHALL CONFORM WITH THE REQUIREMENTS OF THE AASJATJO., M—196, AND WITH THE FLORIDA D.O.T. SPECIFICATIONS, LATEST EDITION, ALUMINUM PIPE TO BE HELICAL (SPIRAL FLOW).

26, INSTALLATION OF CORRUGATED METAL PIPE - ALL JOINTS ON STORM SEMER PIPE SHALL BE MADE UP WITH ONE-HALF INCH NEOPRENE, AL BANDS SHALL HAVE THE SAME CORRUGATION DESIGN AS THE PIPE. THE WOTH OF THE BANDS SHALL BE AS FOLLOWS: 12 INCH WIDE UP TO 4 INCH DAMEER PIPE AND 24 INCH WIDE OVER 48 INCH DAMETER PIPE. THE REQUIREMENTS OF JOINTS REQUIRED. ALL PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC PER F.D.O.T. SPECIFICATIONS.

- 27, REINFORCED CONCRETE PIPE THE PIPE SHALL CONFORM WITH THE REQUIREMENTS OF CLASS III OF A.S.T.M. C-76 AND WITH THE FLORIDA D.O.T. SPECIFICATIONS, LATEST EDITION. ALL PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC PER F.D.O.T. SPECIFICATIONS.
- 28. ALL PAYING AND DRAINAGE WORK SHALL BE CONSTRUCTED IN FULL ACCORDANCE WITH THE CITY OF PORT ST. LUCIE'S LATEST STANDARDS.

28. ANY EXISTING ROADWAY AND/OR UTILITY THAT IS DAMAGED BY THE CONTRACTOR SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER.



SAW CUT/BUTT JOINT DETAIL

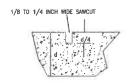
EXISTING SUBGRADE

MIN.

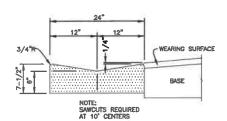
SURFACE COURSE

N.T.S.

TYPE "D" CURB



SAW JOINT DETAIL



CONCRETE VALLEY GUTTER

N.T.S

30, SUBGRADE - SHALL BE COMPACTED AS NOTED ON THE PLANS AND MEET THE DENSITY REQUIREMENTS AS DETERMINED BY THE AAS.A.T.O. T-180 SPECIFICATIONS. SUBGRADE SHALL EXTEND 12 INCHES BEYOND THE PROPOSED EDGE OF PAYMENT NAVO/OR 6" BEYOND VALLEY GUTTER, TYPE "A" AND "F" CURB & GUTTER OR TYPE "D" CURB. SUBGRADE SHALL BE 12 NICHES THICK COMPACTED TO 98% ACCORDING TO AAS.H.T.O. T-180. ALL MUJCK, STUMPS, ROOTS OR OTHER DELETERIOUS MATTER ENCOUNTERED IN THE PREPARATIONS OF THE SUBGRACE SHALL BE REMOVED. COMPLETELY FROM THE CENTERUME OF THE ROMOWAY TO A WIDTH OF TEN FEET BEYOND THE EDGE OF PAYMENTI. IF SUBGRADE IS REQUIRED TO BE STABILIZED, THE REQUIRED BEARING VALUE DETERMINATIONS SHALL BE MEMBER BY THE LUMERCOK BEARING RATIO, TEST MEMBEROD. "TO BE STABILIZED, THE REQUIRED BEARING VALUE DETERMINATIONS SHALL BE MEMBER BY THE LUMERCOK BEARING RATIO, TEST MEMBEROD." TO SALSHIT.O. "T-180 SPECIFICATIONS.

31. BASE - APPROVED LOCAL BASE MATERIAL, MEETING LBR 100 MIN., SHALL BE COMPACTED TO NOT LESS THAN 98% MAXIMUM DENSITY AS DETERMINED BY AAS,HILD. T-180 SPECIFICATION AND AS CALLED FOR IN FLORIDA D.O.T. SPECIFICATIONS, LATEST EDITION. BASE COURSES OVER 6 1/2" THICK SHALL BE PLACED AND COMPACTED IN TWO EQUAL LIFTS

32, PRIME COAT - BITUMINOUS PRIME COAT SHALL CONFORM WITH THE REQUIREMENTS OF THE FLORIDA D.O.T. SPECIFICATIONS, LATEST EDITION AND SHALL BE APPLIED AT THE RATE OF 0.25 CALLONS PER SQUARE YARD, UNLESS A LOWER RATE IS DIRECTED BY THE ENGINEER.

1. TACK COAT — BITUMINOUS TACK COAT SHALL CONFORM WITH THE REQUIREMENTS OF THE FLORIDA D.O.T. SPECIFICATIONS, LATEST EDITION AND SHALL APPLIED AT THE RATE OF 0.08 GALLONS PER SQUARE YARD. UNLESS A VARIATION IS APPROVED BY THE ENGINEER.

34. SURFACE COURSE - ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM WITH THE REQUIREMENTS OF THE FLORIDA D.O.T. SPECIFICATIONS, LATEST EDITION. THE MINIMUM COMPACTED THICKNESS TO BE AS NOTED ON PLANS.

35. PAVEMENT MARKINGS - SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND CITY OF PORT ST. LUCIE'S LATEST STANDARDS.

36. CONCRETE - ALL CONCRETE SHALL DEVELOP 4000 P.S.I. (MINIMUM) 28 DAY COMPRESSIVE STRENGTH OR GREATER WHERE NOTED ON PLANS. CLASS I CONCRETE SHALL ONFORM WITH THE FLORIDA D.O.T. SPECIFICATIONS, LATEST EDITION. CLASS I CONCRETE USED AS PAVING SHALL DEVELOP 3000 P.S.I. (MINIMUM) 28 DAY'S COMPRESSIVE STRENGTH.

37, NO DRIVEWAY SHALL BE CONSTRUCTED WITHIN ANY PORTION OF THE SAFE SIGHT CORNERS.

- SR NO DRIVEWAY SHALL RE CONSTRUCTED WITHIN 5' OF A FIRE HYDRANT.
- 39. CONTRACTOR TO OBTAIN ALL REQUIRED DEWATERING PERMITS FROM SOUTH FLORIDA WATER MANAGEMENT DISTRICT.

40. 4" SLEEVES SHALL BE SCHEDULE 80 AND BE PLACED AT 0,00% SLOPE WITH TOP OF PIPE 3.0' BELOW PROFILE GRADE. ENDS OF PIPE SHALL HAVE METAL LOCATOR'S INSTALLED.

41. ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN CHANGED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

42. CONTRACTOR SHALL UTILIZE CONSTRUCTION METHODS AND DEVICES SUCH AS TURBIDITY CURTAINS, SILT BARRIERS AND HAY BALES WHERE NECESSARY IN ORDER TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL WATER QUALITY STANDARDS.

43. THE CONTRACTOR SHALL CONFINE CONSTRUCTION ACTIVITIES TO OWNER-SUPPLIED EASEMENTS AND RIGHTS-OF-WAY. IN EMARCHMENTALLY SENSITIVE AREAS, CONSTRUCTION ACTIVITIES SHALL BE FURTHER CONFINED AS INDICATED OR REQUIRED BY PERMIT CONDITIONS.

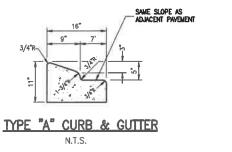
44. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE SITE PRIOR TO THE BIDDING PROCESS TO DETERMINE EXISTING CONDITIONS. ITEMS DISCOVERED WHICH ARE NOT REFLECTED IN THE DRAWNINGS AND AFFECT OR POTENTIALLY AFFECT THE PROPOSED CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE SUBMISSION OF BIDS.

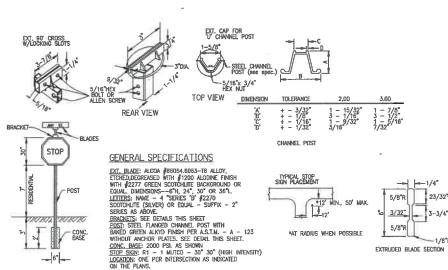
45, MAINTENANCE OF TRAFFIC SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN ACCORDANCE WITH FDOT AND CITY OF PORT ST. LUCIE'S STANDARDS. THE INDIVIDUAL PREPARING M.O.T. PLANS SHALL BE CERTIFIED IN ADVANCE M.O.T. BY THE FLORIDA DEPARTMENT OF TRANSPORTATION.

46, THE CONTRACTOR SHALL REVIEW THE SITE CONDITIONS PRIOR TO THE BID PROCESS TO DETERMINE THE METHODS AND EXTENT DEWATERING IS NECESSARY (IF ANY) AND SHALL INCLUDE METHODS AND COSTS ASSOCIATED WITH DEWATERING IN THE BID.

47. CLEAN UP: THE CONTRACTOR SHALL KEEP THE CONSTRUCTION SITE FREE OF RUBBISH AND WASTE MATERIALS AND RESTORE TO THEIR ORIGINAL CONDITION THOSE PORTIONS OF THE SITE NOT DESIGNATED FOR ALTERATION BY THE CONTRACT DOCUMENTS. CLEAN UP AND RESTORED SHALL BE ACCOMPLISHED ON A CONTINUAN BASIS THROUGHOUT THE CONTRACT PERIOD AND IN SUCH A MANNER AS TO MAINTAIN A MINIMUM OF RUISANCE AND INTERFERENCE TO THE CHEFOL AND RESIDENTS IN THE VICINITY OF THE WORK, THE CONTRACTOR SHALL ALSO REBKIVE, WHEN NO LONGER NEEDED, ALL TEMPORARY STRUCTURES AND EQUIPMENT USED IN HIS OPERATIONS, IT IS THE INTERF OF THIS SPECIFICATION THAT THE CONSTRUCTION AREA AND THOSE CHIPTER AREAS NOT DESIGNATED DESIGNATED FOR ALTERATION BY THE CONTRACT DOCUMENTS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AS NEARLY AS POSSIBLE IMMEDIATELY AFTER COMPLETION OF CONSTRUCTION.

48. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE SIGNS, BARRICADES, FLASHING LIGHTS, FLAGMEN, AND WATCHMEN AND TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF THE WORK AND THE SAFETY OF THE PUBLIC. TRAFFIC CONTROL WARRINGS SIGNS AND BARRICADES SHALL BE IN STRECT ACCORDANCE WITH THE PROVISIONS OF THE FLORING DEPARTMENT OF TRAFFIC PROVISION, MAINTENANCE AND UTILITY OFFERTON (LATEST ROYSION), ALL BARRICADES AND OBSTRUCTIONS SHALL BE PROTECTED AT NIGHT BY FLASHING SIGNAL LIGHTS WHICH SHALL BE KEPT BURRING FROM SUNSET TO SURRISE BARRICADES AND OBSTRUCTIONS SHALL BE PROTECTED AND SUITABLE FOR ROHT VISIBILITY. SUITABLE WARNING SIGNS SHALL BE SO PLACED AND ILLUMINATED AT NIGHT AS TO SHOW IN ADVANCE WHERE CONSTRUCTIONS ABBRICADES.





TYP. STREET/STOP SIGN

N.T.S.

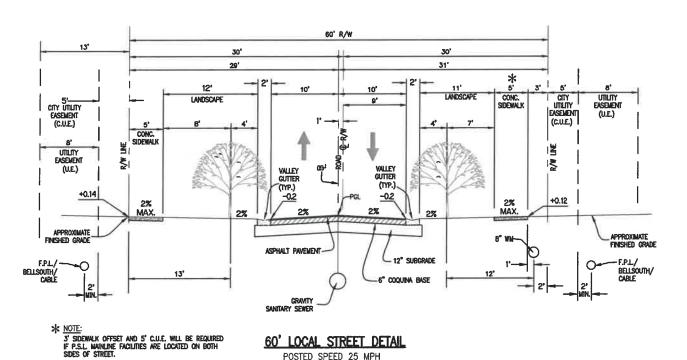
REV. ISSUED DATE DESCRIPTION Reserve **PROJECT** Verano SITE PUD 1 Verano DRI NOT TO SCALE PROJECT TITLE VERANO P.U.D. NO. 1. **PLAT NO. 22** SHEET TITLE PAVING, GRADING, AND DRAINAGE DETAILS ARSADIS U.S. 11 C. 1500 Catagory Bruse-Wer Strike 200 Catagory Bruse-Wer Strike 200 Catagory Bruse-Wer Strike 200 Catagory 1500 No. 26648 WIE TONA IIII STATEOR RID ROBERW DINSON, PE AUGUST 2019 11111 WITS. DEPARTMENT MANAGER RWL RWI LEAD DESIGN PROF. CHECKED BY TASK/PHASE NUMBER DRAWN BY Q000,0000P JAF PROJECT NUMBER DRAWING NUMBER WF883022 PD6 OF 8

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CITY OF PORT ST. LUCIE PROJECT NUMBER - P19-129

ch) Date\Time : Wed, 19 Feb 2020 ~ 9:40am Polity\time : G:\Arbolects\Link\times \text{MFR83022} Plot 22\Cstar

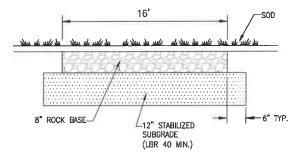
ked Version : R19.1s (LKS Tech)



REQUIRED PAVEMENT SPECIFICATIONS			
TYPE	WEARING SURFACE	BASE	SUB-GRADE
ROADWAY	1" FDOT TYPE SP-9.5 ASPHALT PAVEMENT (FIRST LIFT) 1" FDOT TYPE SP-9.5 ASPHALT PAVEMENT (FINAL LIFT)	8" ROCK BASE COURSE COMPACTED TO 98% OF MAX DRY DENSITY AS DETERMINED BY AASHTO PROCEDURE T-180, LER 100 MIN.	12" SUBGRADE, COMPACTED TO 98% OF MAX DRY DENSITY AS DETERMINED BY AASHTO PROCEDURE T-180 STABILIZED TO MINIMUM LBR 40.

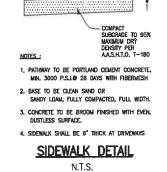
POSTED SPEED 25 MPH

REQUIRED PAVEMENT SPECIFICATIONS

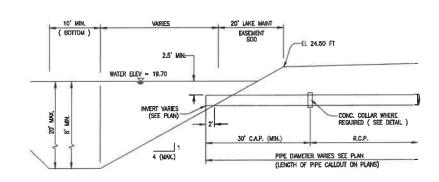


EMERGENCY ACCESS ROAD N.T.S.

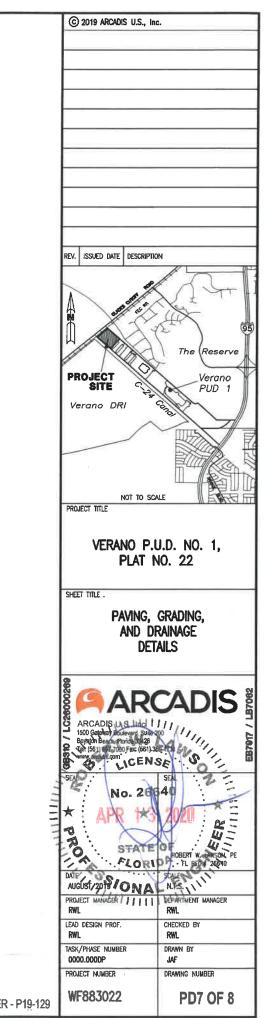
OFFSETS SHOWN ON PLANS REFER TO CENTERLINE OF ROAD.



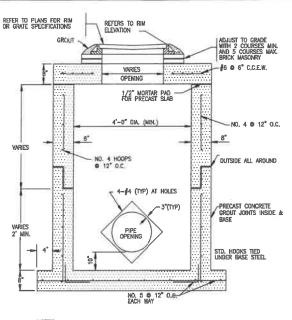
CONC. SIDEWALK 2% (MAX.)



LAKE SECTION AND OUTFALL DETAIL N.T.S.

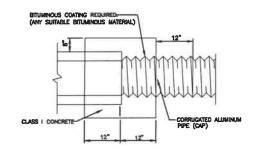


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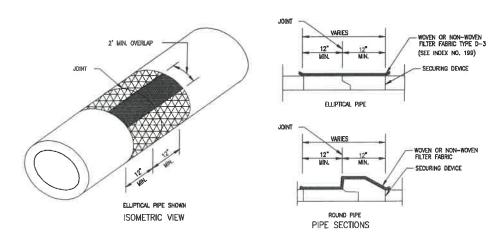


1. ALL REINFORCING TO MEET CURRENT F.D.O.T. SPECIFICATIONS 2. VALLEY CURB INLETS SHALL HAVE USF 5113-6194 FRAME AND GRATE

DRAINAGE STRUCTURES N.T.S.

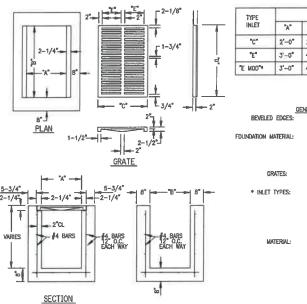


CONCRETE COLLAR DETAIL N.T.S.



COST OF FILTER FABRIC JACKET TO BE INCLUDED IN COST OF PIPE CULVERTS. FOR ALL PIPE TYPES - CONCRETE PIPE SHOWN

FILTER FABRIC JACKET



2'-0" 3'-1" 2'-4" 3'-0" 11" 3'-0" 4'-6" 3'-4" 4'-4" 1'-5" "E MOD"4 3'-0" 4'-6" 3'-4" 4'-4" 1'-5"

GENERAL NOTES

INLET DETAIL

N.T.S.

INV. 24.70

INV. 13.00

-1.25

21.00 2.75'

SECTION A-A

CS-1 DETAIL

NOT TO SCALE SEE FDOT STANDARD INDEX 425-010 FOR DETAILS

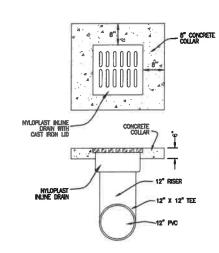
<u>PLAN</u>

ALL EXPOSED CORNERS AND EDGES TO BE CHAMFERED 3/4"

WHERE MATERIAL UNSATISFACTORY FOR FOUNDATION IS ENCOUNTERED AT FLOW LINE OMIT FLOOR AND CARRY WALLS DOWN TO SATISFACTORY FOUNDATION BACKFILL TO FLOW LINE WITH CLEAN SAND.

CAST IRON GRATES IN ACCORDANCE WITH FLA. D.O.T. SPECS.

INLETS ARE TO BE AS SHOWN HEREON. TYPE "E MOD" IS A TYPE "E" TURNED 90" TO RECEIVE R.C.P. UP TO 48" DIA. INLETS RECEIVING R.C.P., LARGER THAN 48" DIA. SHALL BE IN ACCORDINGE WITH FIA. D.O.T. STANDARDS.



"INLINE" YARD DRAIN DETAIL N.T.S.

Reserve PROJECT Verano SITE PUD 1 Verano DRI NOT TO SCALE PROJECT TITLE

© 2019 ARCADIS U.S., Inc. 12-05-19 ADD CS-1 DETAIL

REV. ISSUED DATE DESCRIPTION

WF883022

VERANO P.U.D. NO. 1. PLAT NO. 22

SHEET TITLE

PAVING, GRADING, AND DRAINAGE DETAILS



TYPICAL LOT DRAINAGE DETAILS --- N.T.S.

TO ROADWAY DRAINAGE

REAR HALF OF LOT DRAINS TO YARD DRAINS

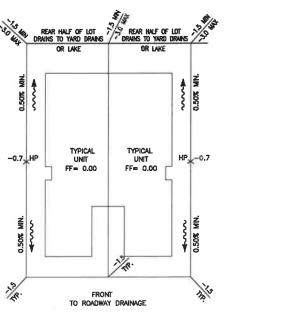
TYPICAL UNIT

FF= 0.00

HP -0.7

-0.7 HP

Notes: All unit types constructed to use similar lot drainage scheme as the typical unit shown



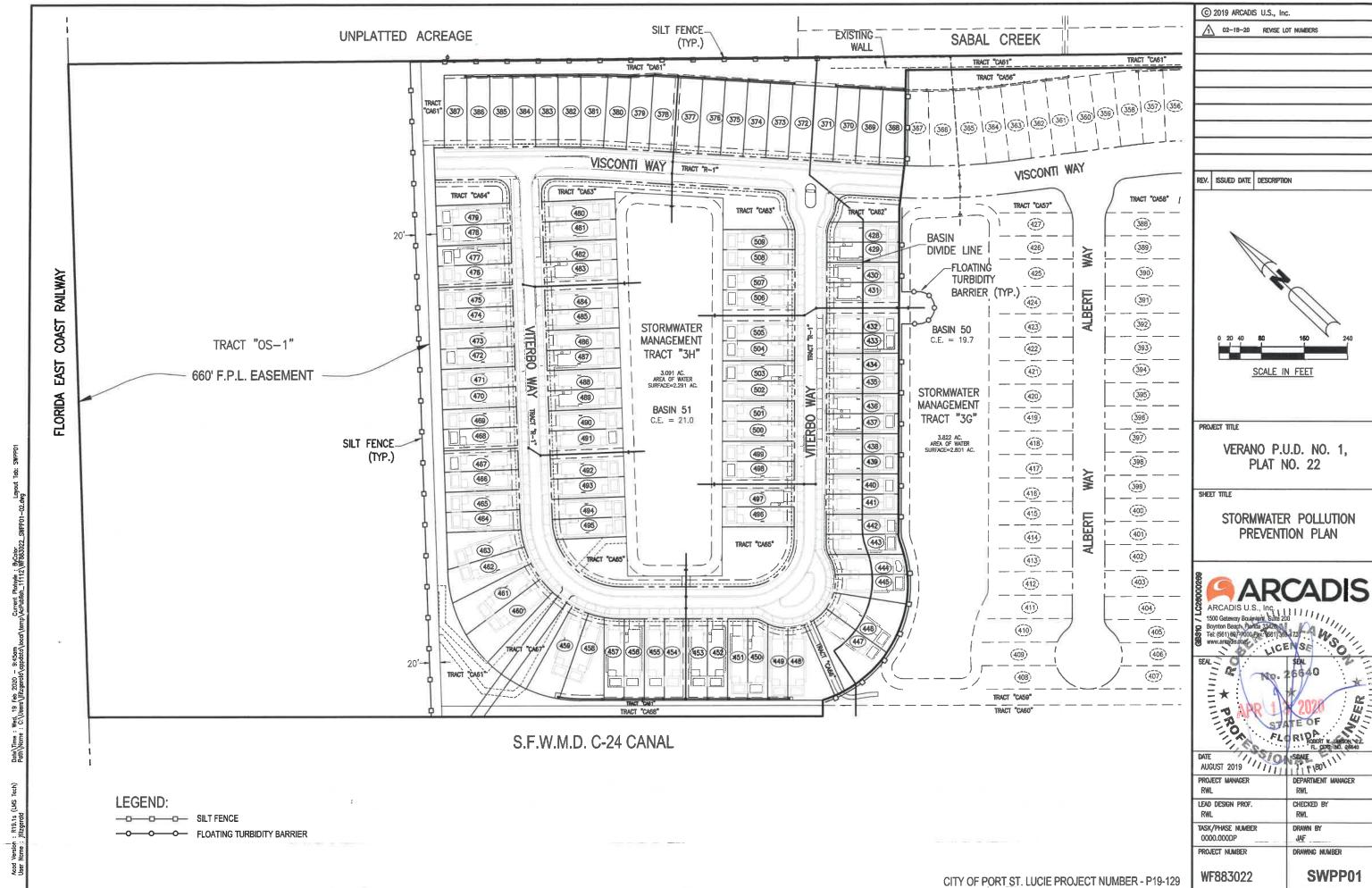
TYPICAL LOT DRAINAGE DETAILS

NOTES: ALL UNIT TYPES CONSTRUCTED TO USE SIMILAR LOT DRAINAGE SCHEME AS THE TYPICAL UNIT SHOWN

CITY OF PORT ST. LUCIE PROJECT NUMBER - P19-129

DATE AUGUST 2019 DEPARTMENT MANAGER RWL RWL LEAD DESIGN PROF. CHECKED BY RWL RWL TASK/PHASE NUMBER DRAWN BY Q000.000DP JAF PROJECT NUMBER DRAWING NUMBER

PD8 OF 8



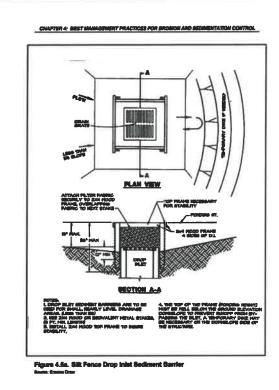


generation and migration of all toxic substances:

Section 1	Project Name and location information:	Verano P.U.D. No. 1 Plat No. 22 Sections 28 and 29, Township 36 South Range 39 East of St. Lucie County, Florida City of Port St. Lucie Florida		
Section 2	Describe the nature of the	Residential Subdivision		
Section 3	construction activity: Describe the intended sequence of major soil disturbing activities:	Clear and Grub Rough Earthwork Utility Installation Roadway Construction.		
Section 4	Total area of the site:	43.079 Acres		
Section 5	Total area of the site to be disturbed:	24.527 Acres		
Section 6	Existing data describing the soil or quality of any stormwater discharge from the site:	All Stormwater runoff will be maintained onsite.		
Section 7	Estimate the drainage area size for each discharge point:	N/A		
Section 8	Latitude and longitude of each discharge point and identify the receiving water or MS4 for each discharge point:	N/A		
Section 9	Give a detailed description of all controls, Best Management Practices (BMPs) and measures that will be implemented at the construction site for each activity identified in the intended sequence of major soil disturbing activities section. Provide time frames in which the controls will be implemented. NOTE: All controls shall be consistent with performance standards for erosion and sediment control and stormwater treatment set forth in s. 62-40.432, F.A.C., the applicable Stormwater or Environmental Resource Permitting requirements of the Department or a Water Management District, and the guidelines contained in the State of Florida Erosion and Sediment Control Designer and Reviewer Manual, FDOT, FDEP, and any subsequent amendments. 1. Silt Fence shall be set at East and West perimeter.			
	2. Floating Turbidity Barriers will be installed at lake connections			
Section 10	Newly Installed Drainage will be protected by Filter Cloth. Describe all temporary and permanent stabilization practices. Stabilization practices include temporary seeding, mulching, permanent seeding, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, vegetative preservations, etc. Lake banks will be sodded, stabilization of slope into FPL Easement will by			
Section 11	Describe all structural controls to be implemented to divert stormwater flow from exposed soils and structural practices to store flows, retain sediment on-site or in any other way limit stormwater runoff. These controls include slifences, earth dikes, diversions, swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, coagulating agents and temporary or permanent sediment basins.			
	Dewatering discharge will be captured within existing uncompleted onsite lake.			
Section 12	Describe all sediment basins to be implemented for areas that will disturb 10 or more acres at one time. The sediment basins (or an equivalent alternative) should be able to provide 3,600 cubic feet of storage for each acre drained. Temporary sediment basins (or an equivalent alternative) are recommended for drainage areas under 10 acres.			
	Existing partially constructed lake will provide sedimentation opportunities onsite.			
Section 13	Describe all permanent stormwater management controls such as, but not limited to, detention or retention systems or vegetated swales that will be installed during the construction process. All swale areas and lake banks will be sodded following construction.			
	TWINEY COLOR OF THE	2.4		
Section 14	Waste disposal, this may include construction debris, chemicals, litter, and sanitary wastes:	All construction materials and debris will be placed in a dumpster and hauled off site to a landfill or other proper disposal site. No materials will be buried on site.		
Section 15	Offsite vehicle tracking from construction entrances/exits:	Off site vehicle tracking of sediments and dust generation will be minimized via a rock construction entrance, street sweeping and the use of water to keep dust down.		
Section 16	The proper application rates of all fertilizers, herbicides and pesticides used at the construction site:	Florida-friendly fertilizers and pesticides will be used at a minimum and in accordance with the manufacturer's suggested application rates.		
Section 17	The storage, application, generation and migration of all	All paints and other chemicals will be stored in a tocked container.		

Section 18	Other:	Port-o-lets will be placed away from storm sewer systems, storm inlet(s), surface waters and wetlands. No vehicle maintenance shall be conducted on-site. A washdown area shall be designated at all times and will not be located in any area that will allow for the discharge of polluted runoff.	
Section 19	Provide a detailed description of the maintenance plan for all structural and non-structural controls to assure that they remain in good and effective operating condition.		
	Contractor shall provide routine maintenance of permanent and temporary sediment and erosion control features in accordance with the technical specifications or as follows, whichever is more stringent: • Silt fence shall be inspected at least weekly. Any required repairs shall be made immediately. Sediment deposits shall be removed when they reach approximately one-half the height of the barrier. • Maintenance shall be performed on the rock entrance when any void spaces are full of sediment. • Inlet(s)/outfalls shall be inspected immediately after each rain event and any required repairs to the filter inlets, silt fence, or filter fabric shall be performed immediately. • Bare areas of the site that were previously seeded shall be reseeded per manufactures' instructions. • Mulch and sod that has been washed out shall be replaced immediately. • Maintain all other areas of the site with proper controls as necessary.		
Section 20	Inspections: Describe the inspection and inspection documentation procedures, as required by the FDEP NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities.		
	Qualified personnel will Inspect all points of discharges, all disturbed areas of construction that have not been stabilized, constructed areas and locations where vehicles enter and exit the site, and all BMPs at least once every 7 calendar days and within 24 hours of the end of a rainfall event that is 0.5 inches or greater. Where sites have been finally stabilized, said inspections shall be conducted at least once every month until the Notice of Termination is filed.		
Section 21	Identify and describe all sources of non-stormwater discharges as allowed by the FDEP NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities.		
	N/A		
Section 22	All contractor(s) and subcontractor(s) identified in the SWPPP must sign the following certification:		
	"I certify under penalty of law that I understand, and shall comply with, the terms and conditions of the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities and this Stormwater Pollution Prevention Plan prepared thereunder."		

Section 23	Name	Title	Company Name, Address and Phone Number	Date
-				
-				



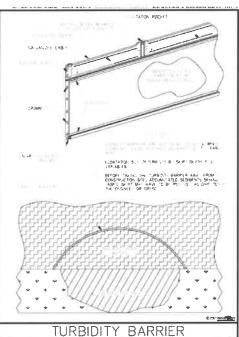
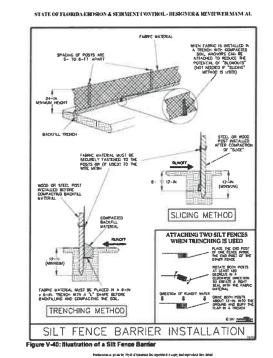


Figure V-44: Illustration of a Turbidity Barrier Curtain



STATE OF FLORIDA EROSION & SEDIMENT CONTROL-DESIGNER & REVIEWER MANUAL

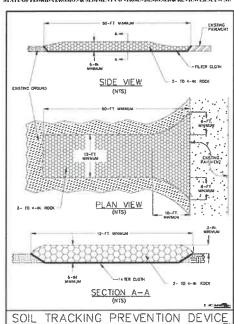


Figure V-52: Illustration of a Soil Tracking Prevention Device

EV.	ISSUED DAT	E DESCRIPTION	
PROJ	ECT TITLE		

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VERANO P.U.D. NO. 1, PLAT NO. 22

SHEET TITLE

STORMWATER POLLUTION PREVENTION DETAILS

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AUGUST 2019	WOT TO SCALE
PROJECT MANAGER RWL	DEPARTMENT MANAGER RWL
LEAD DESIGN PROF. RWL	CHECKED BY RWL
TASK/PHASE NUMBER 0000.000DP	JAF
PROJECT NUMBER	DRAWING NUMBER

SWPP02