

# SR 50 BOAT RAMP ACCESS EMBANKMENT REPAIR

ORANGE COUNTY, FLORIDA

TERESA JACOBS

MAYOR

ORANGE COUNTY BOARD OF COUNTY COMMISSIONERS

S. SCOTT BOYD

DISTRICT 1

BRYAN NELSON

DISTRICT 2

PETE CLARK

DISTRICT 3

JENNIFER THOMPSON

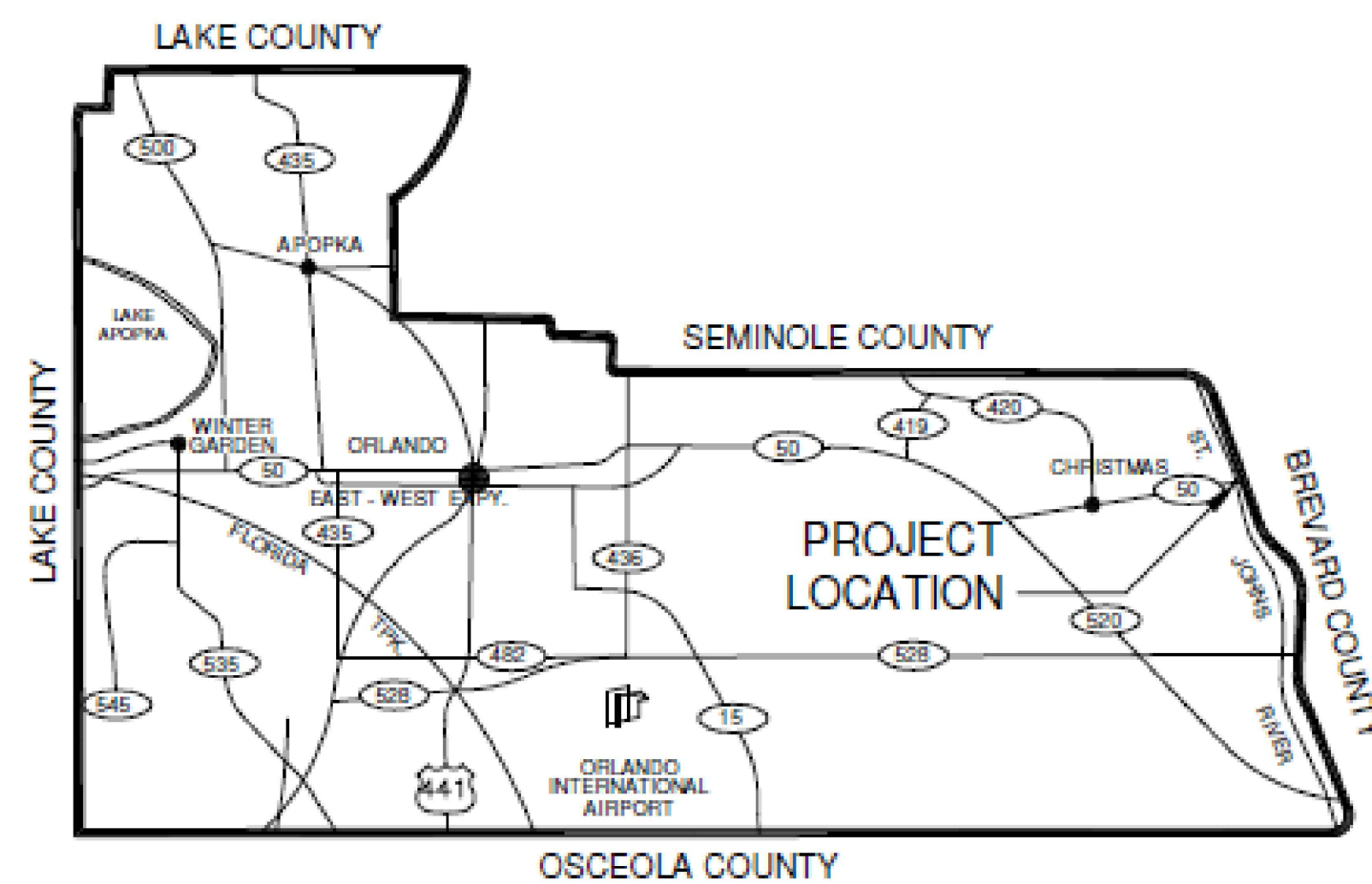
DISTRICT 4

TED B. EDWARDS

DISTRICT 5

VICTORIA P. SIPLIN

DISTRICT 6



## GENERAL INFORMATION

OWNER: ORANGE COUNTY PARKS AND RECREATION DIVISION  
4801 W. COLONIAL DRIVE  
ORLANDO, FLORIDA 32808  
PHONE NUMBER: (407) 836-6200

OWNER REP.: ORANGE COUNTY CAPITAL PROJECTS  
400 EAST SOUTH STREET  
ORLANDO, FLORIDA 32801  
PHONE NUMBER: (407) 836-0050

ENGINEER: SK CONSORTIUM INC.  
1053 N. ORLANDO AVE., SUITE 3  
MAITLAND, FLORIDA 32751  
PHONE NUMBER: (407) 629-4288

GEOTECHNICAL ENGINEER: TERRACON  
1675 LEE ROAD  
WINTER PARK, FLORIDA 32789  
PHONE NUMBER: (407) 468-6744

SURVEYOR: LAYOUT SERVICES, INC.  
3380 S. PARK AVE., SUITE 7  
TITUSVILLE, FLORIDA 32780  
PHONE NUMBER: (321) 759-2779



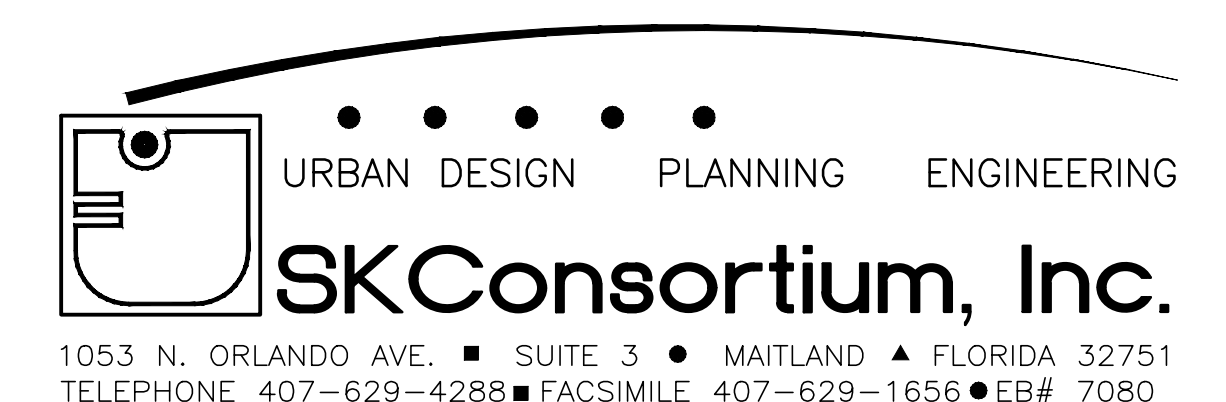
LOCATION MAP  
NOT TO SCALE

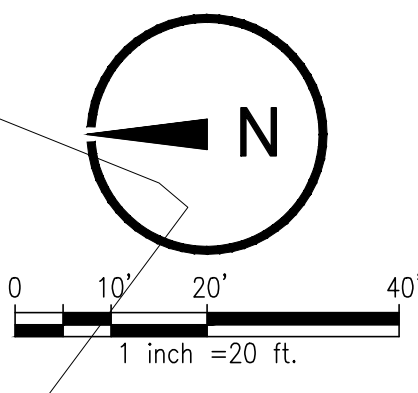
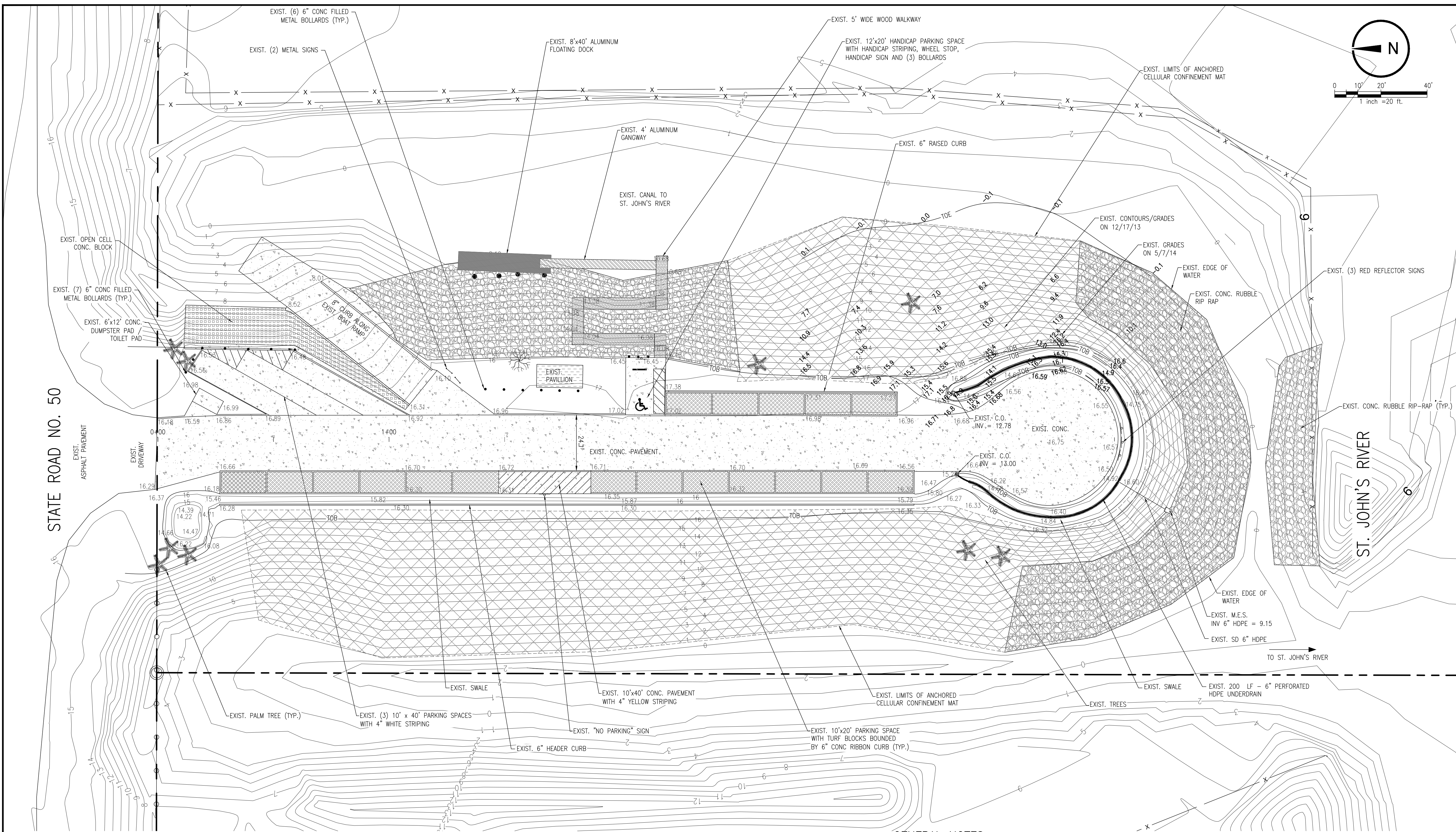
## INDEX OF DRAWINGS

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- C002 - SITE DEMOLITION AND EROSION CONTROL PLAN
- C101 - SITE DEVELOPMENT PLAN
- C201 - GRADING & DRAINAGE PLAN
- C401 - SITE DETAILS

BID + PERMIT SET

2-13-15





MAJID KALAGHCHI, P.E. 41046

Seal

**OVERALL EXISTING SITE PLAN**  
**SR 50 BOAT RAMP ACCESS REPAIR**

ORANGE COUNTY DEPT. OF CAPITAL PROJECTS  
 ORANGE COUNTY, FLORIDA

**GENERAL NOTES**

- ALL INFORMATION SHOWN ON THIS PLAN IS BASED ON INFORMATION PROVIDED BY LAYOUT SERVICES, INC. DATED 5/7/14. PROVIDED BY OCCP
- ELEVATIONS BASED ON NATIONAL GEODETIC VERTICAL DATUM 1929.
- COORDINATES BASED ON NAD 83, FLORIDA STATE PLANE, EAST ZONE.
- BASE MAP INFORMATION (SHOWN AS GRAY) IS SHOWN ACCORDING TO THE AS-BUILT SURVEY OF THE S.R. 50 BOAT RAMP PROJECT PERFORMED BY LAYOUT SERVICES, INC., DATED: DECEMBER 12, 2013.

**PROJECT DESCRIPTION**

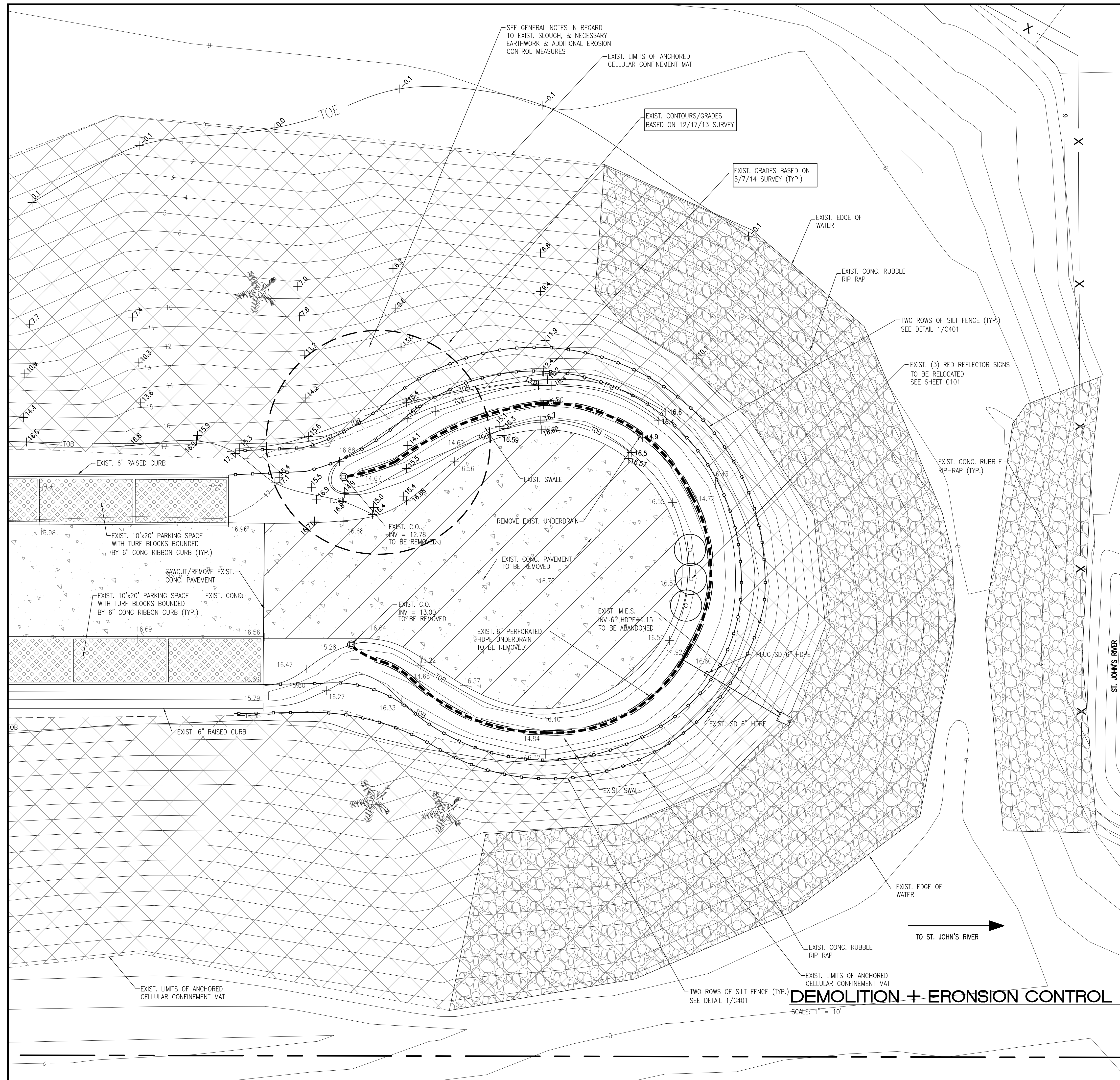
PROJECT INCLUDES REMOVAL OF EXIST. CONC. PAVEMENT AT CUL-DE-SAC, INSTALLATION OF SHEET PILING AROUND THE PERIMETER DUE TO EMBANKMENT FAILURE & INSTALLATION OF CRUSHED CONC. TO STABILIZE THE AREA. PROJECT ALSO INCLUDES BACKFILLING AREAS SUBJECT TO SETTLEMENT/SLOUGH TO ADJACENT FINISH GRADES AND SODDING.

**LEGEND**

EXIST.	
ASPHALT PAVEMENT	CONCRETE RUBBLE
CONCRETE PAVEMENT	ANCHORED CELLULAR MAT
CONCRETE CURB	CONTOUR
SIGN	FINISH GRADE
CHAIN LINK FENCE	TREE
POWER POLE	
LIGHT POLE	

**OVERALL EXISTING SITE PLAN**  
 SCALE: 1" = 20'

11/02/14 - 30% SUBMITTAL	
1/21/15 - 90% SUBMITTAL	
2/13/15 - BID & PERMIT	
Issue Date and Purpose	
Project Number:	1426
Drawn by:	KH
Checked:	M. KALAGHCHI
File No:	C001



**GENERAL NOTES**

1. THE LOCATION/EXTENT OF SILT FENCE SHOWN IS FOR INFORMATION ONLY. COORDINATE EXACT LOCATION WITH RESPECT TO CLEARING/EARTHWORK LIMITS, SITE IMPROVEMENTS & CONSTRUCTION PHASING.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES AND IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
3. EXIST. SITE (WHERE NOTED) CONTAINS AREAS OF SLOUGH WHICH NEED TO BE PROPERLY BACKFILLED TO MATCH ADJACENT EXIST. GRADES. CONTOURS SHOWN ON THIS PLAN DEPICT CONDITIONS AS OF DEC. 2013 WHEN THE AREA IMPROVEMENTS WERE COMPLETED. EXIST. GRADES SHOWN (x16.4) DEPICT CONDITIONS AS OF 5/7/14 TO DEFINE AREA SUBJECT TO EXCESSIVE SETTLEMENT. CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE AREAS IN ACCORDANCE TO PROJECT SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR PLACEMENT OF ADDITIONAL SILT FENCE & EROSION CONTROL MEASURES AS REQUIRED DURING BACKFILLING AND GRADING OF THESE AREAS.
4. SCOPE OF WORK GENERALLY CONSISTS OF REMOVING EXIST. CONC. PAVING, SWALE, UNDERDRAIN SYSTEM, INSTALLATION OF SHEET PILING, BACKFILLING AREAS OF EXCESSIVE SETTLEMENT TO ADJACENT GRADE, INSTALLATION OF CRUSHED CONC. PAVING, AND STABILIZE THE AREA WITH SOD.
5. CONTRACTOR SHALL PREVENT STOCKPILING OF SOIL & CONSTRUCTION MATERIALS WITHIN THE PROJECT LIMITS DUE TO POSSIBLE FURTHER SETTLEMENT.

**PHASING NOTES**

1. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE FOR TRAFFIC ON-SITE DURING CONSTRUCTION. CONTRACTOR SHALL MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS BY USE OF BARRICADES, TEMPORARY WALKS, FENCING, ETC.
2. CONTRACTOR SHALL COORDINATE CONSTRUCTION PHASING WITH OC REPRESENTATIVE.
3. ACCESS TO EXIST. BOAT RAMP AND PARKING SHALL BE MAINTAINED DURING ENTIRE CONSTRUCTION PERIOD.

**DEMOLITION NOTES**

1. CONTRACTOR SHALL PROTECT THE EDGE OF ALL REMAINING PAVEMENT AND HARDSCAPE.
2. DISPOSAL OF ALL MATERIAL LEAVING THE SITE WILL BE ON HAUL ROUTES, APPROVED BY OC.

**SOIL EROSION AND SEDIMENTATION CONTROL NOTES**

1. ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO STANDARDS OF ORANGE COUNTY, AND THE ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT.
2. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN, CONSTRUCTION.
3. SOIL MATERIALS, FROM WORK ON THIS PROJECT SHALL BE CONTAINED, AND NOT ALLOWED TO COLLECT ON ANY OFF-PERIMETER AREAS OR IN WATERWAYS. THESE INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.

**TEMPORARY EROSION CONTROL MEASURES:**

- A. FILTER FABRIC BARRIERS SHALL BE USED AT THE PERIMETER / LIMITS OF THE PROPOSED CONSTRUCTION TO PREVENT SEDIMENTATION FROM LEAVING THE PROJECT BOUNDARIES OR DISCHARGE INTO OFF SITE DRAINAGE FACILITIES.
- B. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.
- C. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.

**PERMANENT EROSION CONTROL MEASURES:**

1. PERMANENT SODDING: ALL AREAS, WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL BE SODDED WITHIN 7 DAYS (MAX) AFTER COMPLETION OF PAVING.
2. PERMANENT STORMWATER MANAGEMENT SYSTEM SHALL BE MAINTAINED, CLEANED AND INSPECTED IN ACCORDANCE WITH THE SJRWMD PERMIT.

**INSPECTIONS:**

- A. AN INSPECTOR, CERTIFIED BY ORANGE COUNTY, IS REQUIRED TO INSPECT THE EROSION AND SEDIMENTATION CONTROL MEASURES SHOWN ON APPROVED STORMWATER POLLUTION PREVENTION PLAN. INSPECTION REPORTS ARE TO BE COMPLETED ON ORANGE COUNTY'S FORM AND SUBMITTED ONCE EVERY WEEK AND AFTER EVERY RAINFALL OF 0.50" OR MORE DURING THE CONSTRUCTION PHASE.
- B. ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOME ONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.
- C. BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
- D. SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.
- E. A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS ATTACHED. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL STATE OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORMWATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.
- F. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT, AND WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORTS.

**LEGEND**

	EXIST.	TO BE REMOVED
ASPHALT PAVEMENT		
CONCRETE PAVING		
CONCRETE CURB		
CHAIN LINK FENCE		
WATER LINE		
SANITARY SEWER LINE		
STORM DRAIN LINE		
OVERHEAD POWER		
POWER POLE		
FIRE HYDRANT		
SIGN		
TREE		

**DEMOLITION + EROSION CONTROL PLAN**

SCALE: 1" = 10'

URBAN DESIGN PLANNING ENGINEERING

**SKConsortium, Inc.**

1053 N. ORLANDO AVE., SUITE 3 • MILLAND • FLORIDA 32751  
 TELEPHONE 407-629-4288 ■ FACSIMILE 407-629-1656 • EB# 7080

MAJID KALAGCHI, P.E. 41046

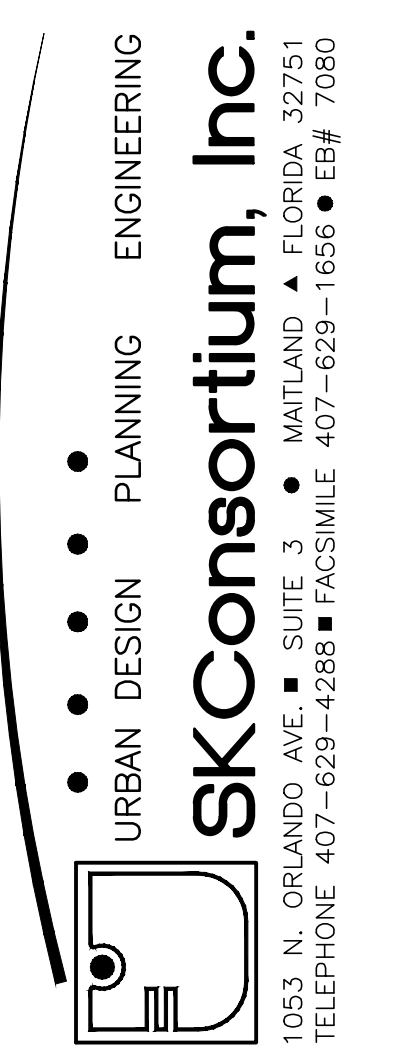
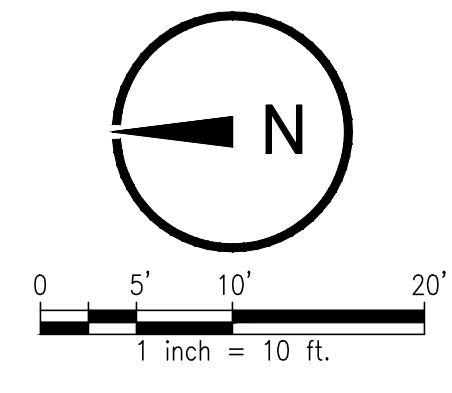
DEMOLITION + EROSION CONTROL PLAN

**SR 50 BOAT RAMP ACCESS REPAIR**

ORANGE COUNTY DEPT. OF CAPITAL PROJECTS  
ORANGE COUNTY, FLORIDA

11/02/14 - 30% SUBMITTAL  
 1/21/15 - 90% SUBMITTAL  
 2/13/15 - BID & PERMIT

Issue Date and Purpose  
 Project Number: **1426**  
 Drawn by: KH  
 Checked: M. KALAGCHI  
 File No: **C002**



MAJID KALAGHCHI, P.E. 41046

Seal

**GEOMETRY NOTES**

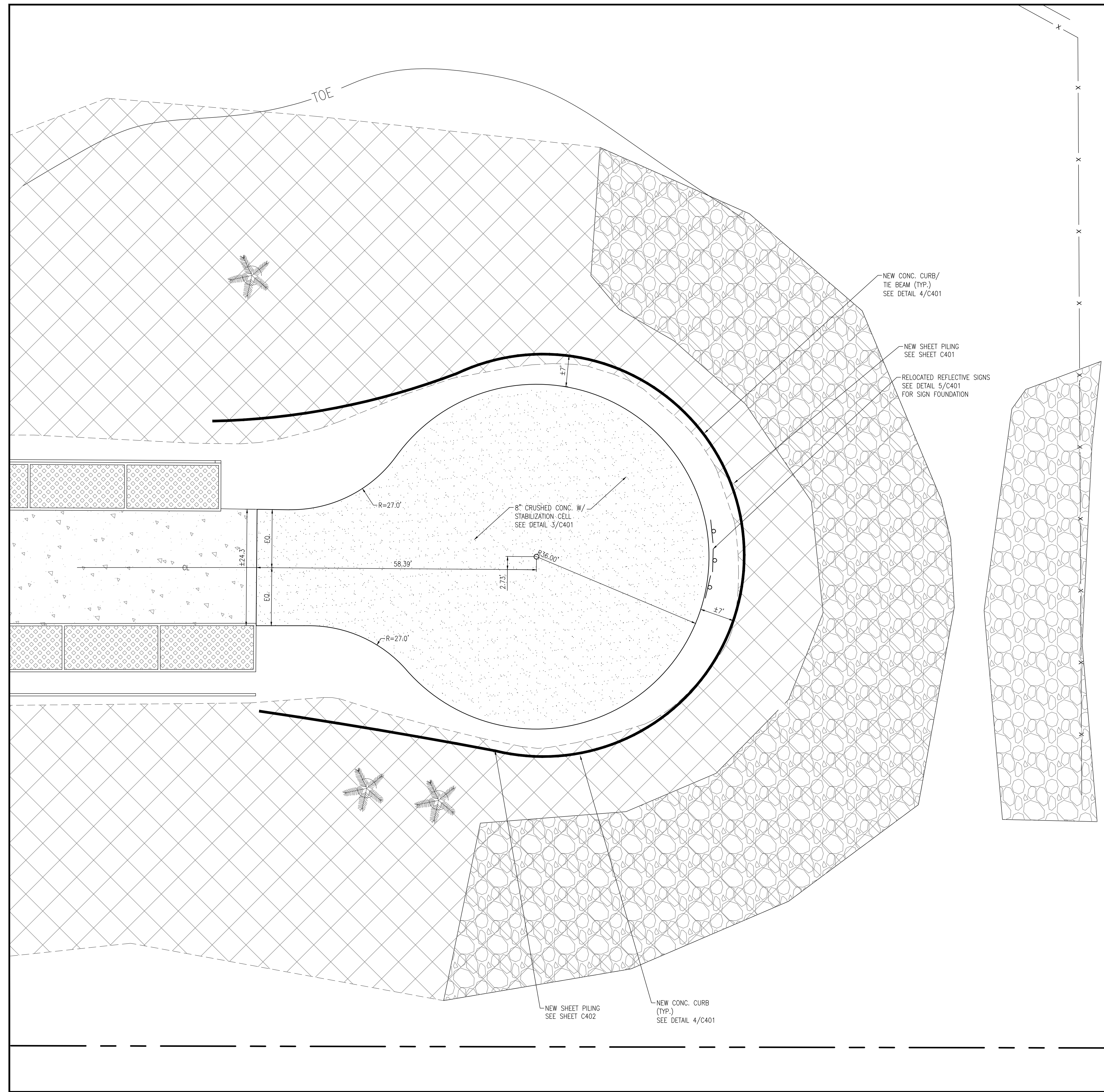
1. ALL SURVEY DATA USED AND CONDITIONS ASSUMED TO BE PRESENT IN PREPARATION OF THESE PLANS WAS PROVIDED BY (LAYOUT SERVICES, INC.). S.K. CONSORTIUM, INC. DOES NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THIS DATA.
2. THE CONTRACTOR SHALL VERIFY AND LOCATE ALL VERTICAL AND HORIZONTAL CONTROL POINTS PRIOR TO CONSTRUCTION. IF ANY DISCREPANCIES SHOULD BE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SURVEYOR OF THE CONDITION IN WRITING PRIOR TO COMMENCING HIS CONSTRUCTION ACTIVITIES.
3. ALL PAVEMENT OFFSETS, RADII AND DIMENSIONS SHOWN ARE TO PROPOSED EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR SHALL STAKE ALL IMPROVEMENTS USING THE GEOMETRIC DATA PROVIDED. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO COMPLETELY STAKE AND CHECK ALL IMPROVEMENTS TO ENSURE ADEQUATE POSITIONING, BOTH HORIZONTAL AND VERTICAL, PRIOR TO THE INSTALLATION OF ANY IMPROVEMENTS.

**MOT NOTES:**

1. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION AND REVISIONS) AND THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN STANDARDS (LATEST EDITION AND REVISIONS)
2. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN ORANGE COUNTY CAPITAL PROJECTS MANAGER PRIOR TO START OF WORK.
3. ORANGE COUNTY RESERVES THE RIGHT TO REQUIRE ADDITIONAL DEVICES AND/OR CHANGES TO THE TRAFFIC CONTROL PLAN BASED UPON CHANGING TRAFFIC CONDITIONS.
4. LOCAL RESIDENTIAL/BUSINESS ACCESS SHALL BE MAINTAINED AT ALL TIMES. CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE RESIDENTS/BUSINESSES AFFECTED BY CONSTRUCTION ACTIVITIES, ONE (1) WEEK IN ADVANCE OF THE START OF ANY PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE COPIES OF THE NOTIFICATION TO THE TRAFFIC CONTROL MANAGER PRIOR TO DISTRIBUTION.
5. DURING NON-WORKING HOURS, NO EQUIPMENT, VEHICLES OR MATERIAL SHALL BE PARKED OR STORED WITHIN THE EXIST. PARKING/ACCESS ROAD TO THE BOAT RAMP.
6. EXISTING REGULATORY AND WARNING SIGNS ARE TO BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE NOTED.
7. ON STREET PARKING IS FOR THE GENERAL PUBLIC AND SHALL NOT BE USED FOR ANY OF THE FOLLOWING; CONTRACTOR OR SUB CONTRACTOR PARKING, CONSTRUCTION STAGING, TRUCK STAGING, STORING OF MATERIALS, ETC.
8. DELIVERY TRUCKS SHALL NOT BLOCK TRAFFIC.

**SITE DEVELOPMENT PLAN**

SCALE: 1" = 10'

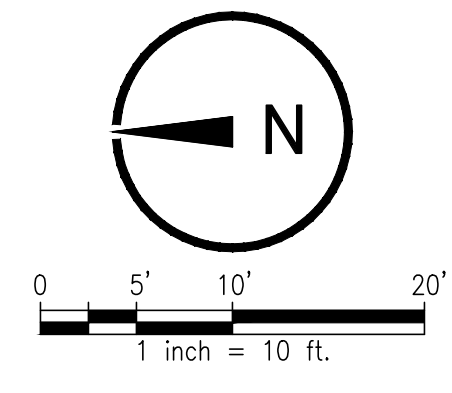
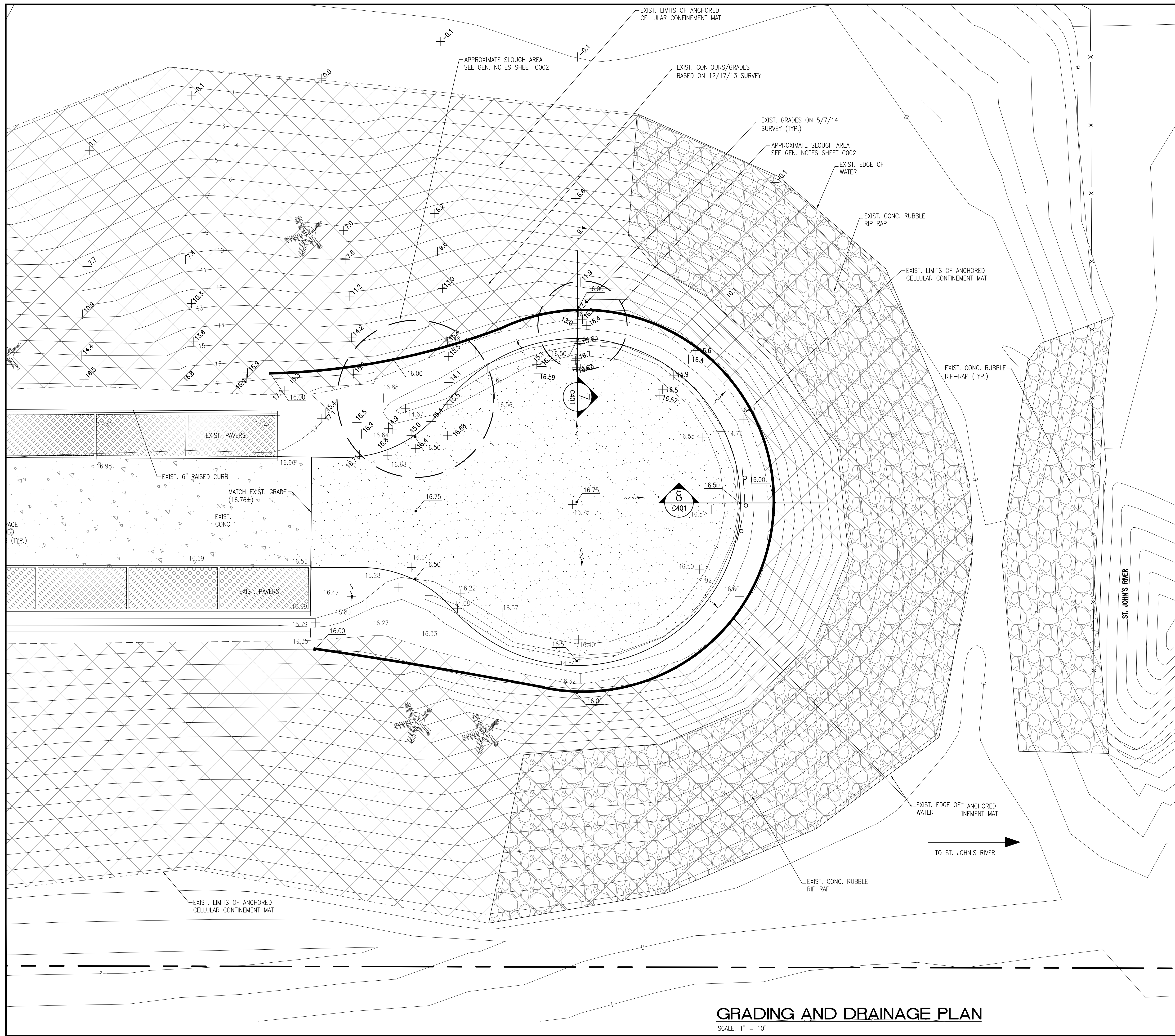


**LEGEND:**

	EXIST.	NEW
ASPHALT PAVEMENT	[Symbol]	[Symbol]
CONCRETE WALK	[Symbol]	[Symbol]
CONCRETE CURB	[Symbol]	[Symbol]
CONC. CURB & GUTTER	[Symbol]	[Symbol]
FENCE	[Symbol]	[Symbol]
LIGHT POLE	LP	[Symbol]
FIRE HYDRANT	FH	[Symbol]
POWER POLE	PP	[Symbol]
SIGN	[Symbol]	[Symbol]

**SITE DEVELOPMENT PLAN**  
**SR 50 BOAT RAMP ACCESS REPAIR**  
**ORANGE COUNTY DEPT. OF CAPITAL PROJECTS**  
 ORANGE COUNTY, FLORIDA

11/02/14 - 30% SUBMITTAL  
 1/21/15 - 90% SUBMITTAL  
 2/13/15 - BID & PERMIT  
 Issue Date and Purpose  
 Project Number: **1426**  
 Drawn by: KH  
 Checked: M. KALAGHCHI  
 File No: **C101**



**GENERAL NOTES**

1. ALL DISTURBED AREAS SHALL BE SODED W/ BAHIA.
2. ALL CONSTRUCTIONS SHALL CONFORM TO AND SHALL BE INSTALLED AND CLEARED FOR SERVICE IN ACCORDANCE WITH THE ORANGE COUNTY STANDARDS UNLESS STATED OTHERWISE IN THE SPECIFICATIONS, OR ON THE PLANS.
3. SEE SHEET C002 FOR EROSION & SEDIMENTATION CONTROL.
4. CONTRACTOR SHALL BACKFILL SETTLED/SLOUGH AREAS TO ADJACENT FINISH GRADE WITHIN PROJECT LIMITS. SEE GENERAL NOTES ON SHEET C002.

**EARTHWORK NOTES**

1. ALL EARTHWORK SHALL BE PERFORMED IN ACCORDANCE W/ PROJECT SPECS & GEOTECHNICAL REPORT

**LEGEND**

	EXIST.	NEW
FINISH GRADE		
FLOW PATTERN		
CONTOUR		
STORM DRAIN INLET		
MITERED END SECTION		
STORM DRAIN LINE		

**GRADING AND DRAINAGE PLAN**  
SCALE: 1" = 10'

URBAN DESIGN PLANNING ENGINEERING  
**SKConsortium, Inc.**  
 1053 N. ORLANDO AVE., SUITE 303 • MAITLAND, FLORIDA 32751  
 TELEPHONE 407-629-4288 • FACSIMILE 407-629-1656 • E# 7080

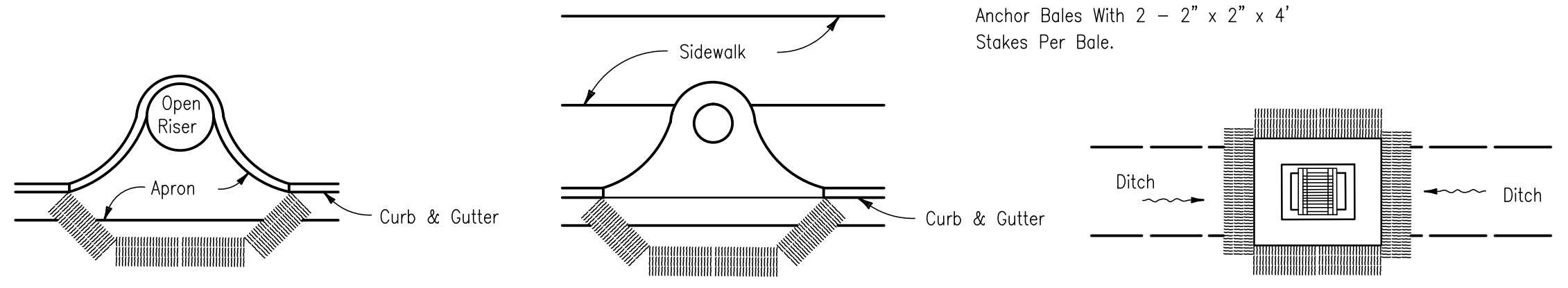
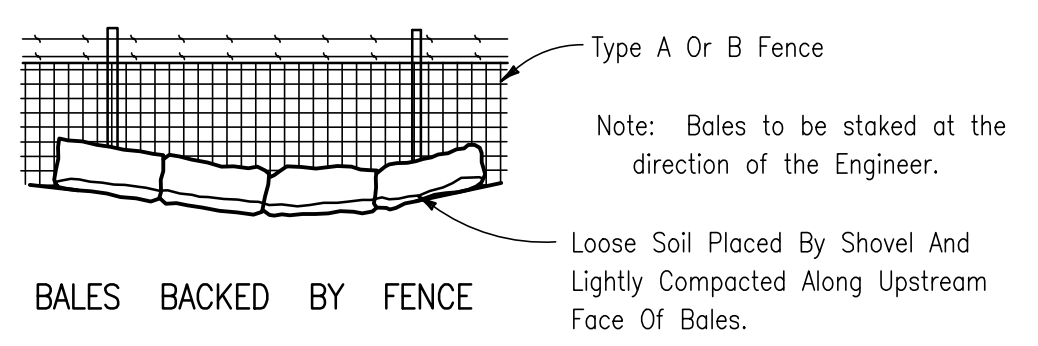
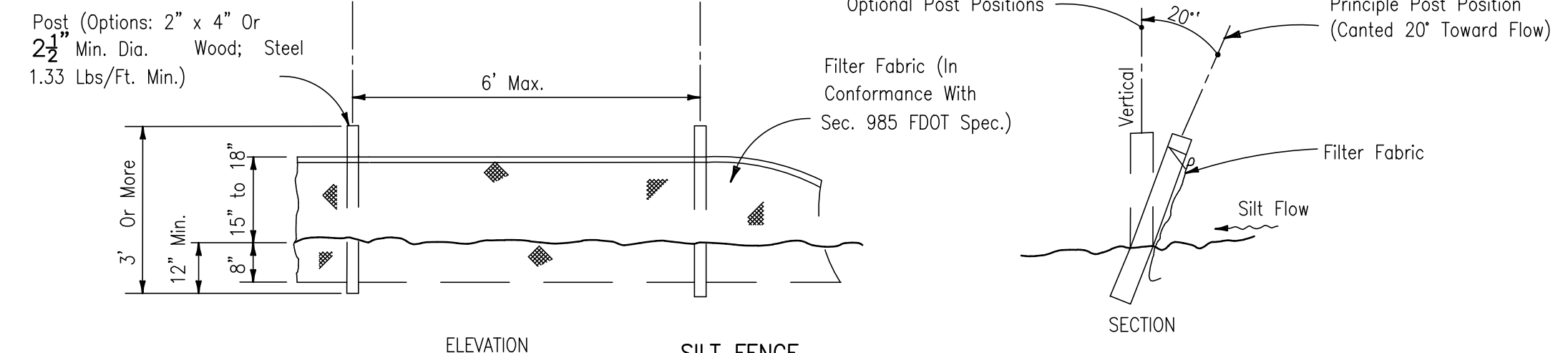
MAJID KALAGHCHI, P.E. 41046

Seal

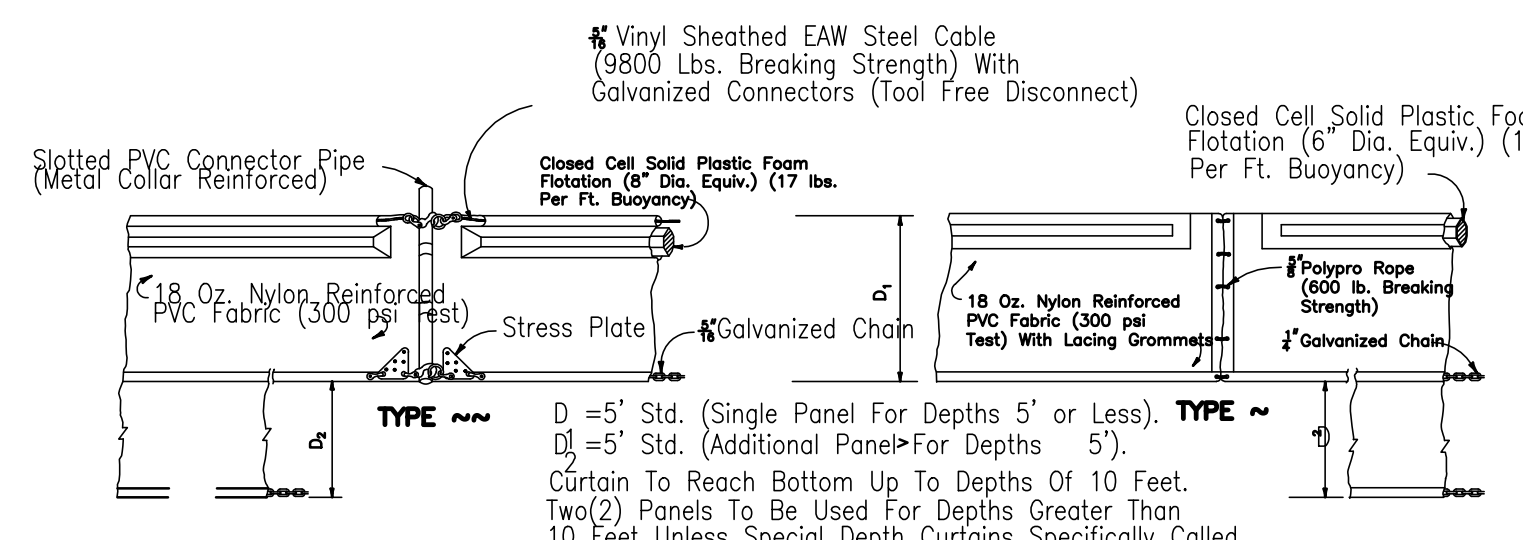
**GRADING AND DRAINAGE PLAN**  
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Issue Date and Purpose	
Project Number:	<b>1426</b>
Drawn by:	KH
Checked:	M. KALAGHCHI
File No:	<b>C201</b>

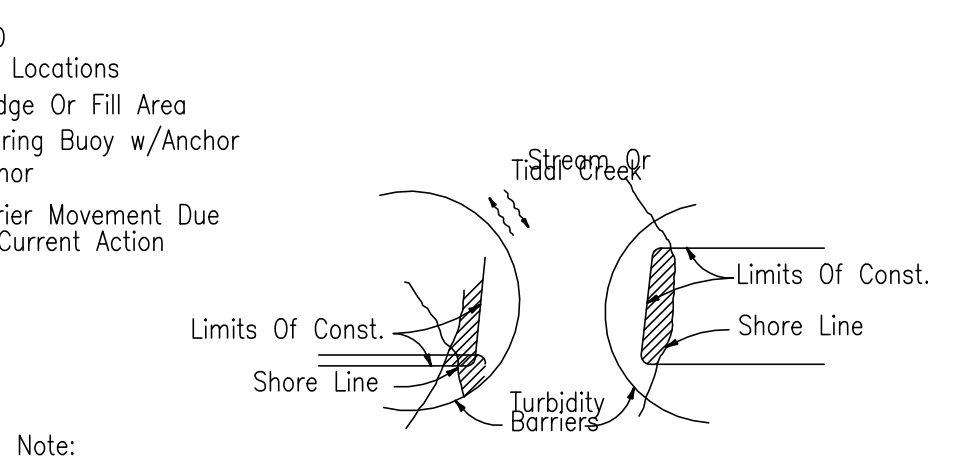
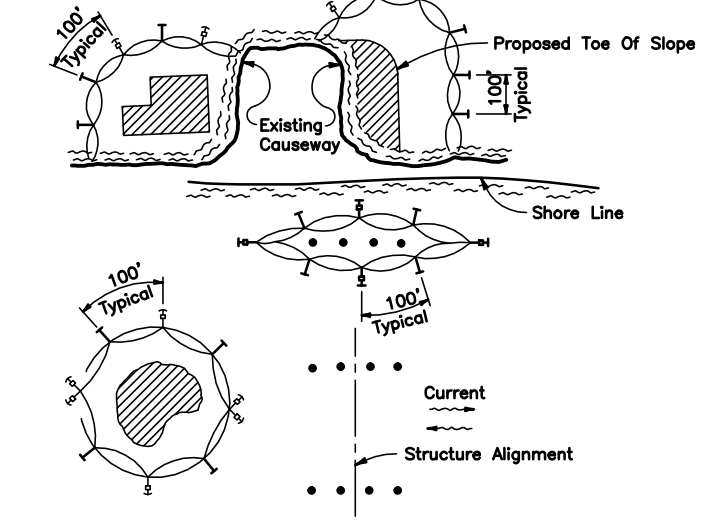


PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



NOTICE: COMPONENTS OF TYPES ~ AND ~ MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES ~ AND ~ SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS



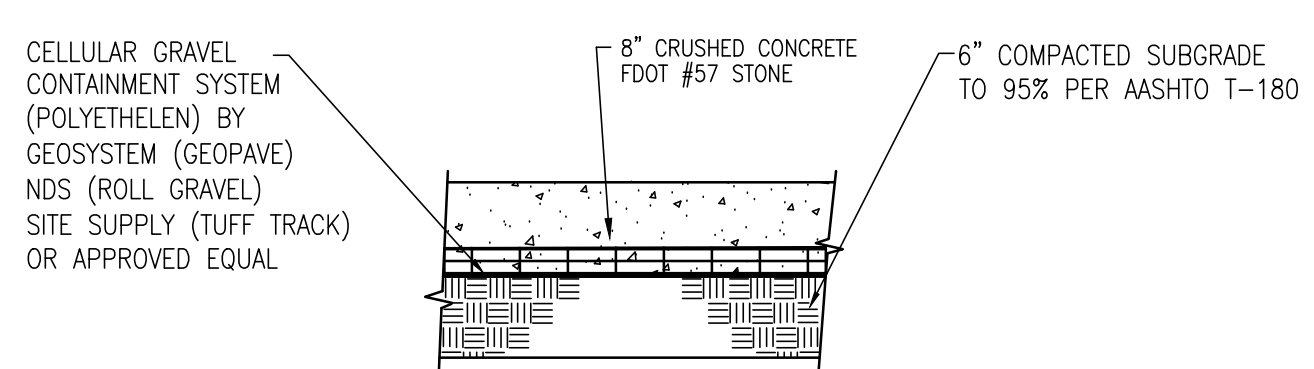
GENERAL NOTES

1. Floating turbidity barriers are to be paid for under the contract unit price for Floating Turbidity Barrier, LF.
2. Staked turbidity barriers are to be paid for under the contract unit price for Staked Turbidity Barrier, LF.

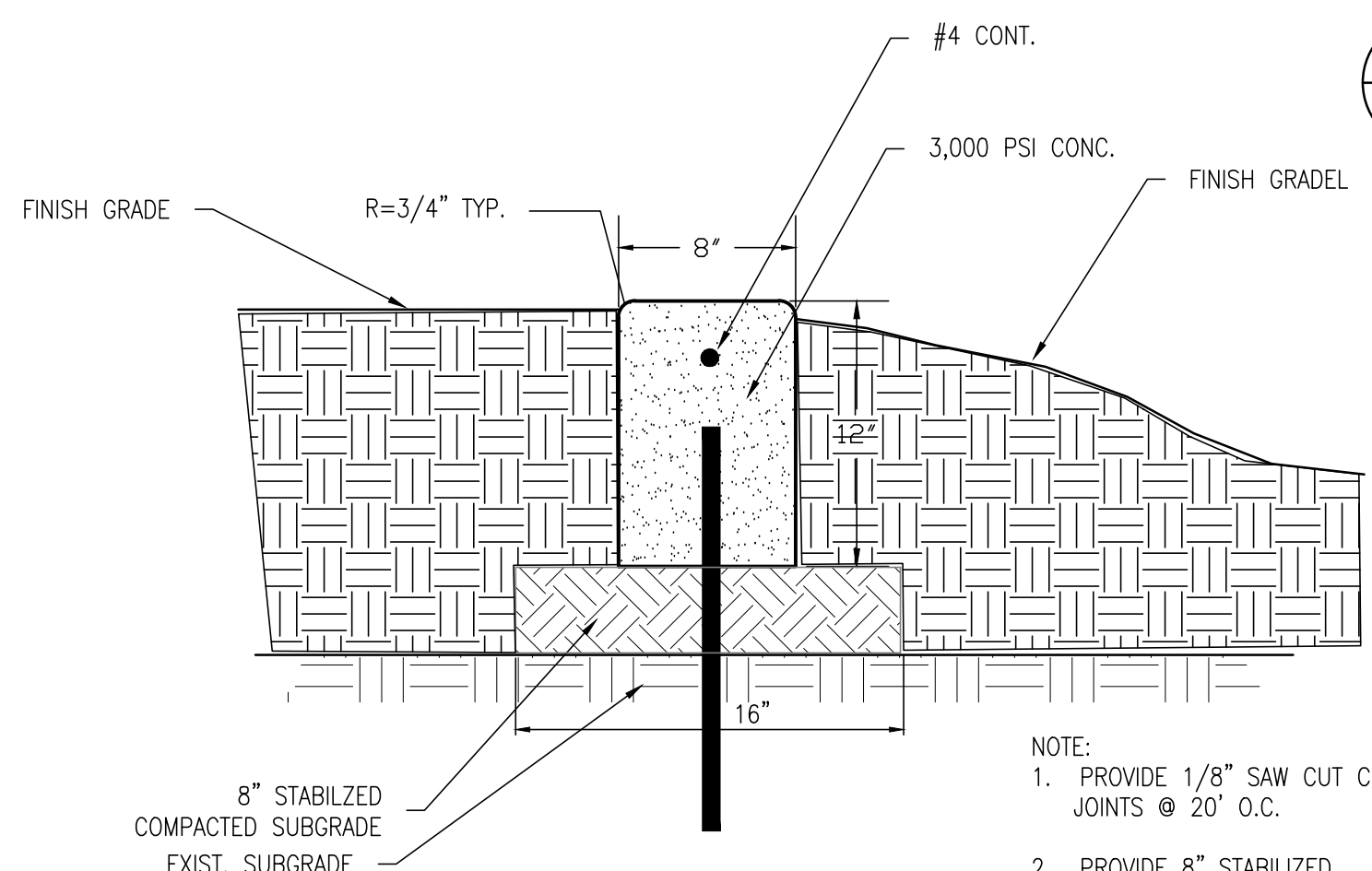
Note: Turbidity barriers for flowing streams and tidal creeks may be either floating, or staked types or any combinations of types that will suit site conditions and meet erosion control and water quality requirements. The barrier type(s) will be at the Contractor's option unless otherwise specified in the plans, however payment will be under the pay item(s) established in the plans for Floating Turbidity Barrier and/or Staked Turbidity Barrier. Posts in staked turbidity barriers to be installed in vertical position unless otherwise directed by the Engineer.

- NOTES:
1. Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
  2. Number and spacing of anchors dependent on current velocities.
  3. Deployment of barrier around pile locations may vary to accommodate construction operations.
  4. Navigation may require segmenting barrier during construction operations.
  5. For additional information see Section 104 of the Standard Specifications.

1 EROSION CONTROL DETAILS



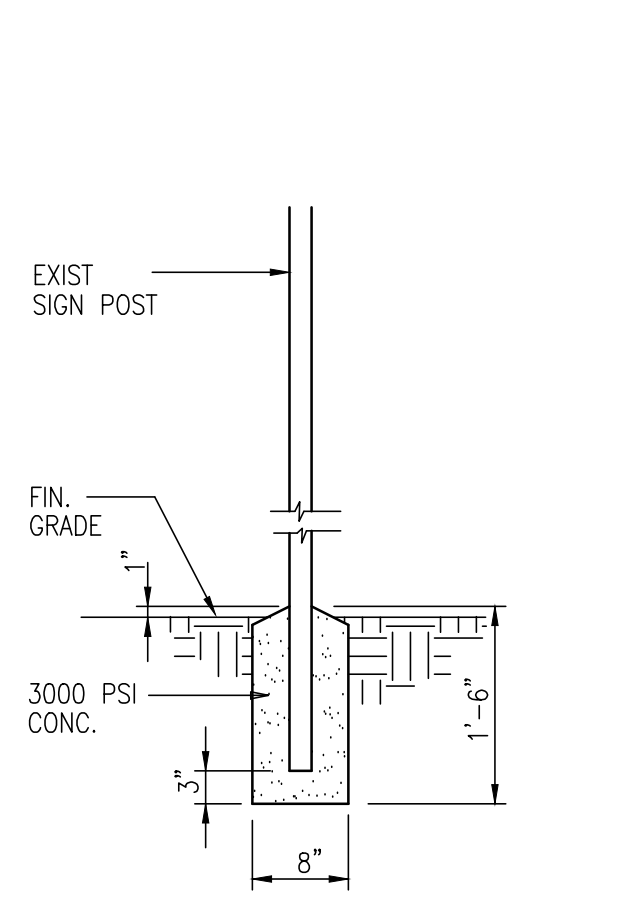
3 CRUSHED CONCRETE DETAIL



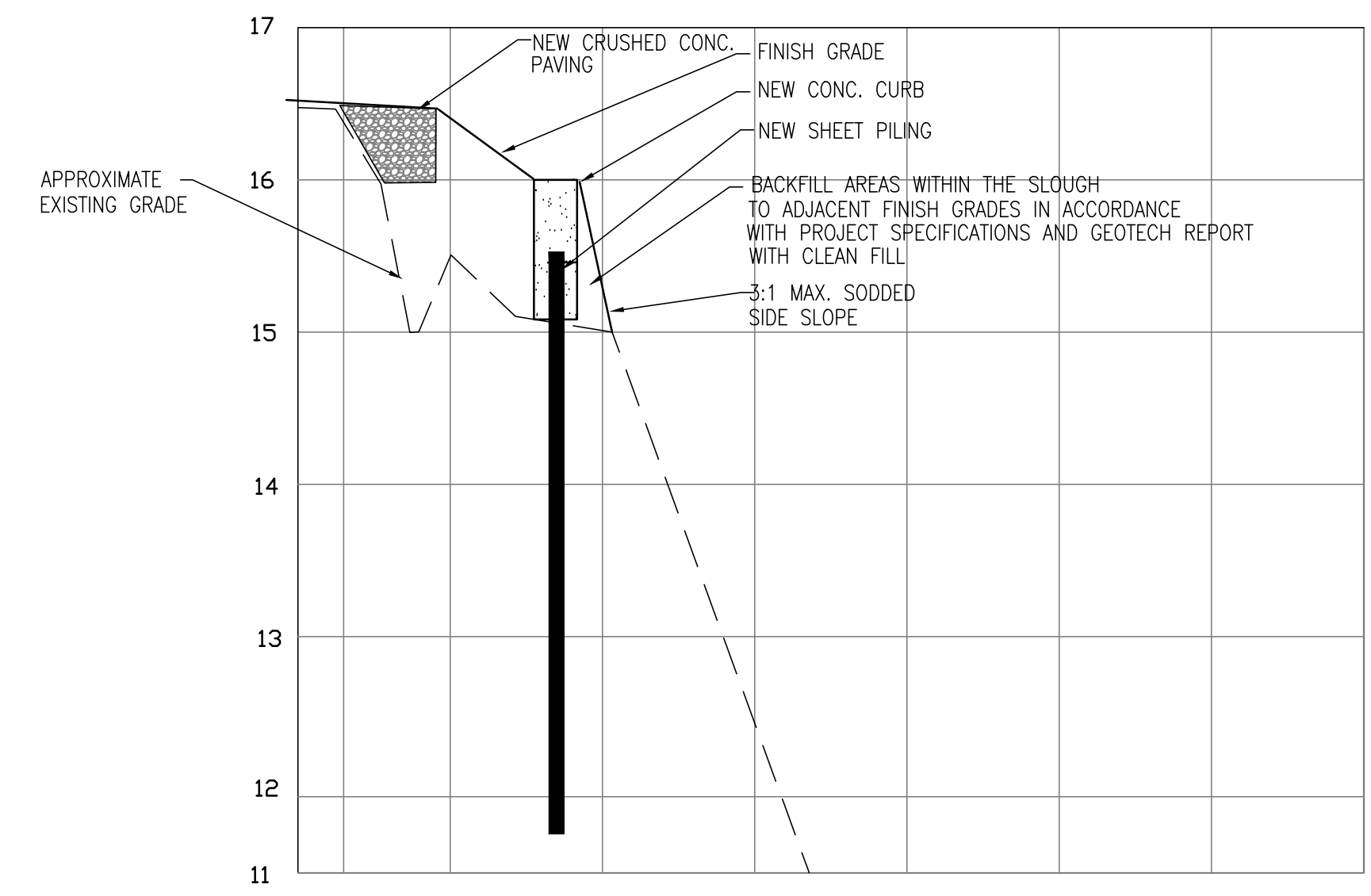
4 CONC. CURB

- NOTE:
1. PROVIDE 1/8" SAW CUT CONTROL JOINTS @ 20' O.C.
  2. PROVIDE 8" STABILIZED SUBGRADE BENEATH THE CURB.

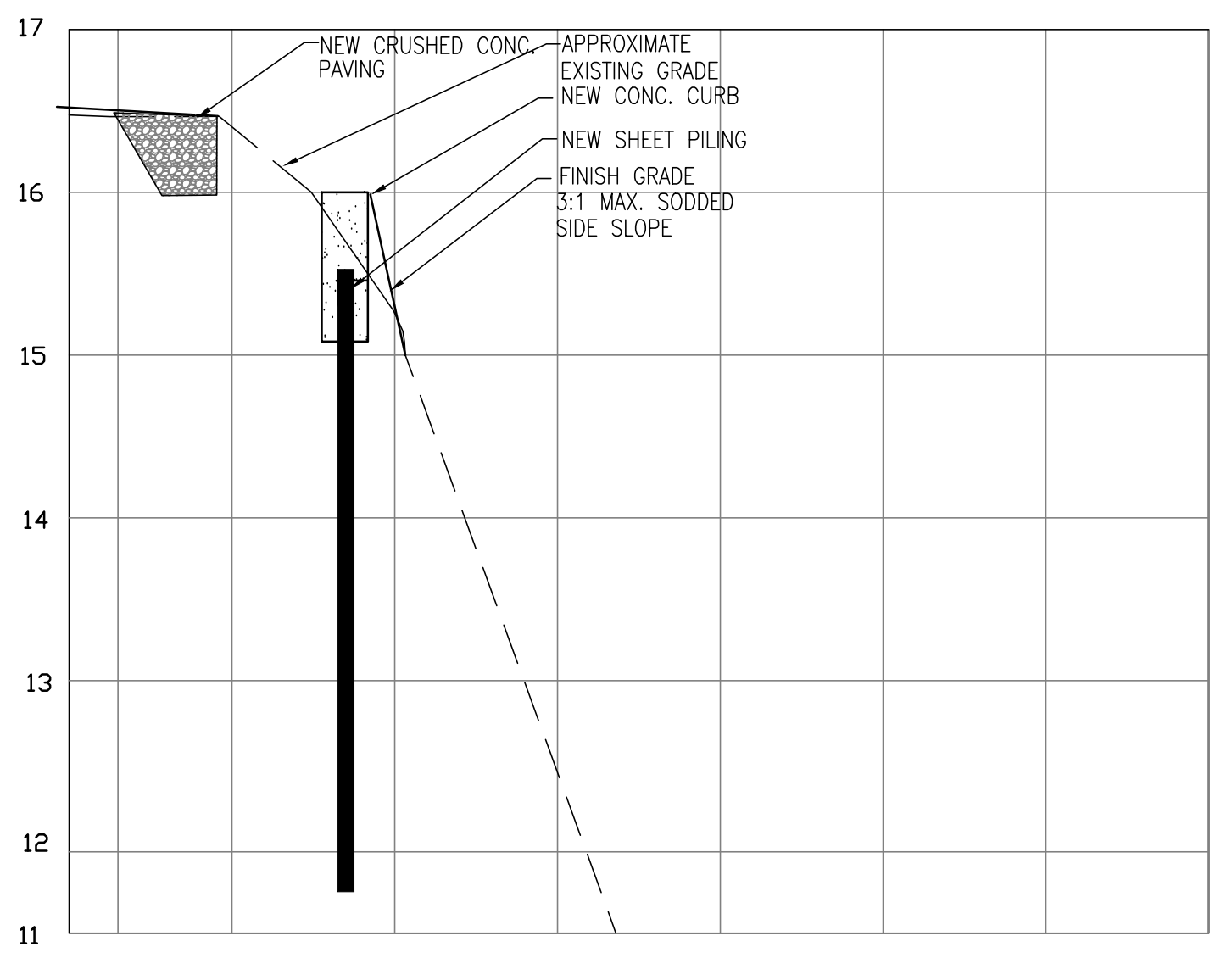
2 TURBIDITY BARRIER APPLICATIONS



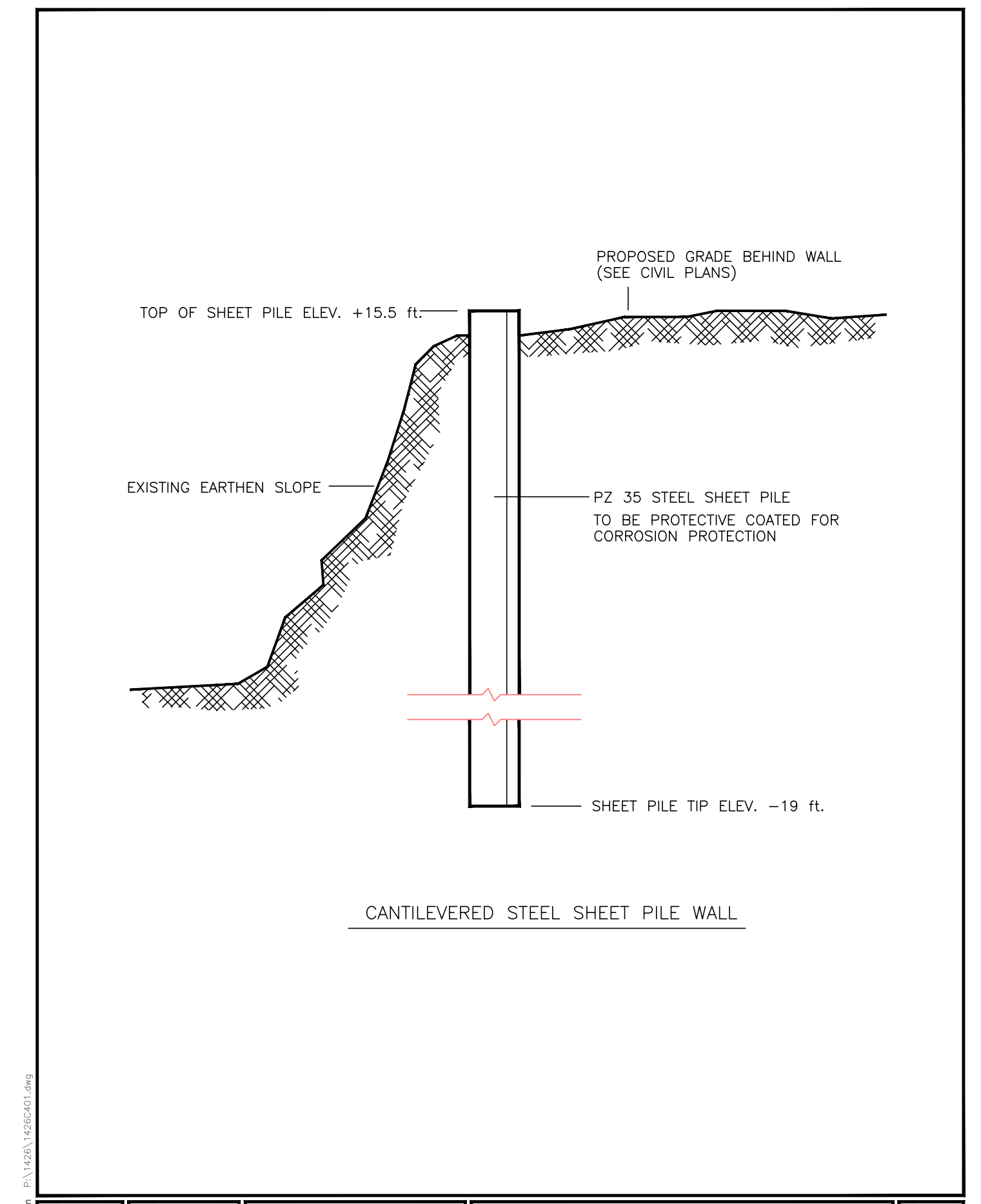
5 TYP. SIGN POST



7 TYP. SECTION



8 TYP. SECTION



Project No:	AK145004	Sheet No:	1
Drawn By:	AS SHOWN	Scale:	AS SHOWN
Checked By:	AK145004-1	Date:	12-12-15
Approved By:	JWC	Project Name:	STATE ROAD 50 / ST. JOHNS RIVER BOAT RAMP REPAIR
Client:	Nodarse/Page One Joint Venture	Location:	E. COLONIAL DRIVE ORANGE COUNTY, FLORIDA

MAJID KALAGHCHI, P.E. 41046

Seal

SITE DETAILS

**SR 50 BOAT RAMP ACCESS REPAIR**

ORANGE COUNTY DEPT. OF CAPITAL PROJECTS

ORANGE COUNTY, FLORIDA

11/02/14 - 30% SUBMITTAL  
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