



**SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
ENVIRONMENTAL RESOURCE PERMIT NO. 36-05075-P-05  
DATE ISSUED: January 18, 2019**

**PERMITTEE:** PULTE HOME COMPANY L L C  
24311 WALDEN CENTER DR SUITE 300  
BONITA SPRINGS, FL 34134

**PROJECT DESCRIPTION:** This Environmental Resource Permit Modification authorizes construction and operation of a stormwater management system serving 67.21 acres of a residential development, with a commercial outparcel, within Basin H of a Project known as Wildblue Southwest.

**PROJECT LOCATION:** LEE COUNTY, SEC 19 TWP 46S RGE 26E

**PERMIT DURATION:** See Special Condition No:1.

This is to notify you of the District's agency action for Permit Application No. 181221-2, dated December 21, 2018. This action is taken pursuant to the provisions of Chapter 373, Part IV, Florida Statutes (F.S).


Based on the information provided, District rules have been adhered to and an Environmental Resource Permit is in effect for this project subject to:

1. Not receiving a filed request for a Chapter 120, Florida Statutes, administrative hearing.
2. the attached 18 General Conditions (See Pages : 2 - 4 of 6),
3. the attached 12 Special Conditions (See Pages : 5 - 6 of 6) and
4. the attached 2 Exhibit(s)

Should you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights," we will assume that you concur with the District's action.

**CERTIFICATE OF SERVICE**

I HEREBY CERTIFY THAT this written notice has been mailed or electronically transmitted to the Permittee (and the persons listed in the attached distribution list) this 18th day of January, 2019, in accordance with Section 120.60(3), F.S. Notice was also electronically posted on this date through a link on the home page of the District's website ([my.sfwmd.gov/ePermitting](http://my.sfwmd.gov/ePermitting)).

BY:   
Melissa M. Roberts, P.E.  
Regulatory Administrator  
Fort Myers Service Center

## GENERAL CONDITIONS

1. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, Florida Administrative Code (F.A.C.). Any deviations that are not so authorized shall subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.
2. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.
3. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the "State of Florida Erosion and Sediment Control Designer and Reviewer Manual" (Florida Department of Environmental Protection and Florida Department of Transportation June 2007), and the "Florida Stormwater Erosion and Sedimentation Control Inspector's Manual" (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008), unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.
4. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice" indicating the expected start and completion dates. If available, an Agency website that fulfills this notification requirement may be used in lieu of the form.
5. Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.
6. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:
  - a. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex- "Construction Completion and Inspection Certification for Activities Associated With a Private Single-Family Dwelling Unit"[Form 62-330.310(3)]; or
  - b. For all other activities- "As-Built Certification and Request for Conversion to Operational Phase" [Form 62-330.310(1)].
  - c. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.
7. If the final operation and maintenance entity is a third party:
  - a. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as- built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.3 of Applicant's Handbook Volume I) as filed with the Department of State, Division of Corporations and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.
  - b. Within 30 days of submittal of the as- built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation Entity" [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.
8. The permittee shall notify the Agency in writing of changes required by any other regulatory agency that

## GENERAL CONDITIONS

require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.

9. This permit does not:
  - a. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;
  - b. Convey to the permittee or create in the permittee any interest in real property;
  - c. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
  - d. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.
10. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.
11. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.
12. The permittee shall notify the Agency in writing:
  - a. Immediately if any previously submitted information is discovered to be inaccurate; and
  - b. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.
13. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.
14. If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, work involving subsurface disturbance in the immediate vicinity of such discoveries shall cease. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Such subsurface work shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and notification shall be provided in accordance with Section 872.05, F.S.
15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.
16. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other

## **GENERAL CONDITIONS**

uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.

17. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.
18. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with Rule 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.



## SPECIAL CONDITIONS

1. The construction phase of this permit shall expire on January 18, 2024.
2. Operation and maintenance of the stormwater management system shall be the responsibility of WILDBLUE MASTER PROPERTY OWNERS ASSOCIATION, INC.
3. Discharge Facilities: Through Previously Permitted facilities.
4. Lake side slopes shall be no steeper than 4:1 (horizontal:vertical) to a depth of two feet below the control elevation. Side slopes shall be nurtured or planted from 2 feet below to 1 foot above control elevation to insure vegetative growth, unless shown on the plans.
5. A stable, permanent and accessible elevation reference shall be established on or within one hundred (100) feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.
6. The following are exhibits to this permit. Exhibits noted as incorporated by reference are available on the District's ePermitting website (<http://my.sfwmd.gov/ePermitting>) under this application number.

Exhibit No. 1.0 Location Map

Exhibit No. 2.0 Plans

Exhibit No. 2.1 Construction Pollution Prevention Plan

Exhibit No. 2.2 Urban Stormwater Management Program

Exhibit No. 2.3 Land Use Comparison

7. Prior to initiating construction activities associated with this Environmental Resource Permit (ERP), the permittee is required to hold a pre-construction meeting with field representatives, consultants, contractors, District Environmental Resource Compliance (ERC) staff, and any other local government entities as necessary.

The purpose of the pre-construction meeting is to discuss construction methods, sequencing, best management practices, identify work areas, staking and roping of preserves where applicable, and to facilitate coordination and assistance amongst relevant parties.

To schedule a pre-construction meeting, please contact ERC staff from the Fort Myers Service Center at (239) 338-2929 or via e-mail at: [pre-con@sfwmd.gov](mailto:pre-con@sfwmd.gov). When sending a request for a pre-construction meeting, please include the application number, permit number, and contact name and phone number.

8. Minimum building floor elevation: 21.8 Feet NAVD
9. Minimum road crown elevation: 20.3 Feet NAVD
10. The exhibits and special conditions in this permit apply only to this application. They do not supersede or delete any requirements for other applications covered in Permit No. 36-05075-P unless otherwise specified herein.
11. Endangered species, threatened species and/or species of special concern have been observed onsite and/or the project contains suitable habitat for these species. It shall be the permittee's responsibility to coordinate with the Florida Fish and Wildlife Conservation Commission and/or the U.S. Fish and Wildlife Service for appropriate guidance, recommendations and/or necessary permits to avoid impacts to listed species. The Protected Species Management and Human-Wildlife Coexistence Plan shall be implemented for this project, as outlined in Exhibit 3.5 within Application No. 140516-10.
12. A mitigation program for this portion of the Wildblue permit is being conducted under the previously

### **SPECIAL CONDITIONS**

approved Application No. 180713-10.

## **NOTICE OF RIGHTS**

As required by Sections 120.569 and 120.60(3), Fla. Stat., the following is notice of the opportunities which may be available for administrative hearing or judicial review when the substantial interests of a party are determined by an agency. Please note that this Notice of Rights is not intended to provide legal advice. Not all of the legal proceedings detailed below may be an applicable or appropriate remedy. You may wish to consult an attorney regarding your legal rights.

### **RIGHT TO REQUEST ADMINISTRATIVE HEARING**

A person whose substantial interests are or may be affected by the South Florida Water Management District's (SFWMD or District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Fla. Stat. Persons seeking a hearing on a SFWMD decision which affects or may affect their substantial interests shall file a petition for hearing with the Office of the District Clerk of the SFWMD, in accordance with the filing instructions set forth herein, within 21 days of receipt of written notice of the decision, unless one of the following shorter time periods apply: (1) within 14 days of the notice of consolidated intent to grant or deny concurrently reviewed applications for environmental resource permits and use of sovereign submerged lands pursuant to Section 373.427, Fla. Stat.; or (2) within 14 days of service of an Administrative Order pursuant to Section 373.119(1), Fla. Stat. "Receipt of written notice of agency decision" means receipt of written notice through mail, electronic mail, or posting that the SFWMD has or intends to take final agency action, or publication of notice that the SFWMD has or intends to take final agency action. Any person who receives written notice of a SFWMD decision and fails to file a written request for hearing within the timeframe described above waives the right to request a hearing on that decision.

If the District takes final agency action which materially differs from the noticed intended agency decision, persons who may be substantially affected shall, unless otherwise provided by law, have an additional Rule 28-106.111, Fla. Admin. Code, point of entry.

Any person to whom an emergency order is directed pursuant to Section 373.119(2), Fla. Stat., shall comply therewith immediately, but on petition to the board shall be afforded a hearing as soon as possible.

A person may file a request for an extension of time for filing a petition. The SFWMD may, for good cause, grant the request. Requests for extension of time must be filed with the SFWMD prior to the deadline for filing a petition for hearing. Such requests for extension shall contain a certificate that the moving party has consulted with all other parties concerning the extension and that the SFWMD and any other parties agree to or oppose the extension. A timely request for an extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

### **FILING INSTRUCTIONS**

A petition for administrative hearing must be filed with the Office of the District Clerk of the SFWMD. Filings with the Office of the District Clerk may be made by mail, hand-delivery, or e-mail. Filings by facsimile will not be accepted. A petition for administrative hearing or other document is deemed filed upon receipt during normal business hours by the Office of the District Clerk at SFWMD headquarters in West Palm Beach, Florida. The District's normal business hours are 8:00 a.m. – 5:00 p.m., excluding weekends and District holidays. Any document received by the Office of the District Clerk after 5:00 p.m. shall be deemed filed as of 8:00 a.m. on the next regular business day. Additional filing instructions are as follows:

- Filings by mail must be addressed to the Office of the District Clerk, 3301 Gun Club Road, West Palm Beach, Florida 33406.

- Filings by hand-delivery must be delivered to the Office of the District Clerk. Delivery of a petition to the SFWMD's security desk does not constitute filing. It will be necessary to request that the SFWMD's security officer contact the Office of the District Clerk. An employee of the SFWMD's Clerk's office will receive and file the petition.
- Filings by e-mail must be transmitted to the Office of the District Clerk at [clerk@sfwmd.gov](mailto:clerk@sfwmd.gov). The filing date for a document transmitted by electronic mail shall be the date the Office of the District Clerk receives the complete document. A party who files a document by e-mail shall (1) represent that the original physically signed document will be retained by that party for the duration of the proceeding and of any subsequent appeal or subsequent proceeding in that cause and that the party shall produce it upon the request of other parties; and (2) be responsible for any delay, disruption, or interruption of the electronic signals and accepts the full risk that the document may not be properly filed.

### **INITIATION OF AN ADMINISTRATIVE HEARING**

Pursuant to Sections 120.54(5)(b)4. and 120.569(2)(c), Fla. Stat., and Rules 28-106.201 and 28-106.301, Fla. Admin. Code, initiation of an administrative hearing shall be made by written petition to the SFWMD in legible form and on 8 1/2 by 11 inch white paper. All petitions shall contain:

1. Identification of the action being contested, including the permit number, application number, SFWMD file number or any other SFWMD identification number, if known.
2. The name, address, any email address, any facsimile number, and telephone number of the petitioner and petitioner's representative, if any.
3. An explanation of how the petitioner's substantial interests will be affected by the agency determination.
4. A statement of when and how the petitioner received notice of the SFWMD's decision.
5. A statement of all disputed issues of material fact. If there are none, the petition must so indicate.
6. A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the SFWMD's proposed action.
7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the SFWMD's proposed action.
8. If disputed issues of material fact exist, the statement must also include an explanation of how the alleged facts relate to the specific rules or statutes.
9. A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the SFWMD to take with respect to the SFWMD's proposed action.

### **MEDIATION**

The procedures for pursuing mediation are set forth in Section 120.573, Fla. Stat., and Rules 28-106.111 and 28-106.401–.405, Fla. Admin. Code. The SFWMD is not proposing mediation for this agency action under Section 120.573, Fla. Stat., at this time.

### **RIGHT TO SEEK JUDICIAL REVIEW**

Pursuant to Section 120.68, Fla. Stat., and in accordance with Florida Rule of Appellate Procedure 9.110, a party who is adversely affected by final SFWMD action may seek judicial review of the SFWMD's final decision by filing a notice of appeal with the Office of the District Clerk of the SFWMD in accordance with the filing instructions set forth herein within 30 days of rendition of the order to be reviewed, and by filing a copy of the notice with the clerk of the appropriate district court of appeal.

**Last Date For Agency Action:** March 9, 2019

**INDIVIDUAL ENVIRONMENTAL RESOURCE PERMIT STAFF REPORT**

**Project Name:** Wildblue Southwest

**Permit No.:** 36-05075-P-05

**Application No.:** 181221-2      **Associated File:** 190109-14   WU   Concurrent  
190107-16   WU   Related

**Application Type:** Environmental Resource (Construction/Operation Modification)

**Location:** Lee County, S19/T46S/R26E

**Permittee :** Pulte Home Company L L C

**Operating Entity :** Wildblue Master Property Owners Association, Inc.

**Project Area:** 67.21 acres

**Permit Area:** 67.21 acres

**Project Land Use:** Residential  
Commercial

**Drainage Basin:** ESTERO BAY

**Sub Basin:** ESTERO RIVER

**Receiving Body:** Onsite Wetlands

**Class:** CLASS III

**Special Drainage District:** NA

**Mitigation Previously Permitted:** Yes

**Conservation Easement To District :** No

**Sovereign Submerged Lands:** No

**PROJECT SUMMARY:**

This Environmental Resource Permit Modification authorizes construction and operation of a stormwater management system serving 67.21 acres of a residential development, with a commercial outparcel, within Basin H of a Project known as Wildblue Southwest.

This modification reduces Lake H-2 by 2.49 acres and increases the dry detention area by 1.51 acres. Site plans are attached as Exhibit No. 2.0.

Issuance of this permit constitutes certification of compliance with state water quality standards in accordance with Rule 62-330.062 Florida Administrative Code (F.A.C.).

**PROJECT EVALUATION:****PROJECT SITE DESCRIPTION:**

The site is located approximately two miles east of Interstate 75, between Corkscrew Road and Alico Road, in Lee County. A location map is attached as Exhibit 1.0.

Agricultural production on the site began in the 1950's and continued into 2013. Aggregate mining operations began in the 1980's and continued until the late 2000's. There are permitted water management facilities within the project area. The project area was previously permitted for construction under Application No. 031031-18, and was formerly known as the Ginn Property. The Ginn project included 4354.5 acres of residential and golf course development along with wetland mitigation areas. The proposed project lies within the boundary of the previously permitted Ginn Property, and the overall permit area now consists of approximately 2960 acres. Portions of the originally permitted area have been removed from the project (specifically the area north of Alico Road, and the northwest and southwest quadrants of the project) under Permit No. 36-05075-P / Application No. 140516-10. In addition, approximately 705.87 acres of the overall permit area have been modified and transferred to a different owner as part of the VistaBlue project (Basins I and J).

Permit No. 36-05075-P / Application No. 140516-10 authorized construction of approximately 1,000 single-family residential units around the large existing lakes as well as a small commercial outparcel adjacent to Corkscrew Road. Following permit issuance, this application was petitioned by third parties with the Petition being heard before an Administrative Law Judge. During the Hearing, the petition was voluntarily dismissed and the Final Order to issue the Permit was made. However, as a result of the Hearing process, a number of changes to the design calculations and stormwater management plans supporting the permit were made. These changes were incorporated into the permit file as part of the most recent permit modification under Application No. 161003-5.

As a result of the aggregate mining activities, the overall area contains two large lakes, averaging approximately 40 feet in depth. This specific project area (67.21 acres) contains an existing mining lake, wetlands, uplands, and a portion of the existing farm fields. For information on the wetlands and other surface waters within the project, please refer to the Wetlands and Other Surface Waters section of this staff report.

**LAND USE:**

See Exhibit No. 2.3 (Land Use Comparison) for project breakdown.

**WATER QUANTITY :****Discharge Rate :**

As shown on Page 8 of 22, Exhibit No. 2.0, the project discharge is within the allowable limit for the area.

**WATER QUALITY :**

Water quality treatment will be provided in dry and wet detention areas. The project provides 9.02 acre-feet of water quality treatment volume. The required treatment volume is 8.71 acre-feet based on one inch over the basin area. See Page 8 of 22, Exhibit No. 2.0 for development details.

Pursuant to Appendix E of Volume II, the water quality treatment volume provided includes an additional 50% treatment volume above the requirements in Section 4.2 of Volume II to provide reasonable assurance that the project will not have an adverse impact on the quality of the downstream receiving

body.

In addition to the required water quality treatment volume, the applicant provided site specific pollutant loading calculations under Application No. 140516-10 to demonstrate that the stormwater management system reduces the post development loading of pollutants to levels less than the loadings generated under the pre-development condition. The pollutant loading calculations are based upon the removal characteristics associated with the system.

The project also includes implementation of a Construction Pollution Prevention Plan (Exhibit 2.1) and an Urban Stormwater Management Program (Exhibit 2.2) as additional reasonable assurance of compliance with water quality criteria during construction and operation.

## **WETLANDS:**

### **Wetlands And Other Surface Waters:**

All wetland impacts and associated mitigation were addressed for the overall Wildblue permit under Application No. 140516-10. The development and preserve interfaces remain consistent with what was previously permitted for this portion of the permit area, and therefore there are no additional direct or secondary wetland or other surface water impacts associated with the proposed project.

## **Fish And Wildlife Issues:**

Pursuant to Application No. 140516-10, the wetlands and surface waters to be impacted within the overall permit area provide habitat for wetland-dependent species including, but not limited to: American alligators, wood storks and other wading birds, Big Cypress fox squirrels, Florida black bear, and Florida panther. No aquatic or wetland- dependent listed species or species having special protection were observed to be using the uplands within the project for nesting or denning. The proposed mitigation will provide or improve habitat for wetland- dependent/ aquatic species. The applicant has coordinated with the Florida Fish and Wildlife Conservation Commission on the site design of this project, to minimize any potential impacts to wildlife. Three 8' X 10' box culvert wildlife crossings will be installed at roadway crossings of the on-site flow-ways to maintain the connectivity of the preserve areas as a wildlife corridor. The project's design also includes a perimeter lake buffer between the majority of the residential development and the preserve areas. Where a lake buffer was not feasible adjacent to preserve areas, an eight-foot high wildlife fence will be installed. The applicant has also incorporated measures in the homeowner association documents to minimize potential human-wildlife conflict. Please see the Protected Species Management and Human-Wildlife Coexistence Plan attached as Exhibit 3.5 within Application No. 140516-10. This permit does not relieve the applicant from complying with all applicable rules and any other agencies' requirements if, in the future, endangered/threatened species or species of special concern are discovered on the site.

## **CERTIFICATION, OPERATION, AND MAINTENANCE:**

Pursuant to Chapter 62-330.310, F.A.C., Individual Permits will not be converted from the construction phase to the operation phase until construction completion certification of the project is submitted to and accepted by the District. This includes compliance with all permit conditions, except for any long term maintenance and monitoring requirements. It is suggested that the permittee retain the services of an appropriate professional registered in the State of Florida for periodic observation of construction of the project.

For projects permitted with an operating entity that is different from the permittee, it should be noted that until the construction completion certification is accepted by the District and the permit is transferred to an

acceptable operating entity pursuant to Sections 12.1-12.3 of the Applicant's Handbook Volume I and Section 62-330.310, F.A.C., the permittee is liable for operation and maintenance in compliance with the terms and conditions of this permit.

In accordance with Section 373.416(2), F.S., unless revoked or abandoned, all SWM systems and works permitted under Part IV of Chapter 373, F.S., must be operated and maintained in perpetuity.

The efficiency of SWM systems, dams, impoundments, and most other project components will decrease over time without periodic maintenance. The operation and maintenance entity must perform periodic inspections to identify if there are any deficiencies in structural integrity, degradation due to insufficient maintenance, or improper operation of projects that may endanger public health, safety, or welfare, or the water resources. If deficiencies are found, the operation and maintenance entity is responsible for correcting the deficiencies in a timely manner to prevent compromises to flood protection and water quality. See Section 12.4 of the Applicant's Handbook Volume I for Minimum Operation and Maintenance Standards.



**RELATED CONCERNS:****Water Use Permit Status:**

The applicant has indicated that surface water lakes will be used as a source for irrigation water for the project. Water Use Application No. 190107-16, Permit No. 36-05078-W has been submitted and is being reviewed for the project.

The applicant has indicated that dewatering is required for construction of this project. Dewatering Application No. 190109-14, Permit No. 36-08429-W has been submitted and is being reviewed for the project.

This permit does not release the permittee from obtaining all necessary Water Use authorization(s) prior to the commencement of activities which will require such authorization, including construction dewatering and irrigation.

**CERP:**

The proposed project is not located within or adjacent to a Comprehensive Everglades Restoration Project component.

**Potable Water Supplier:**

Lee County Utilities

**Waste Water System/Supplier:**

Lee County Utilities

**Right-Of-Way Permit Status:**

A District Right-of-Way Permit is not required for this project.

**Historical/Archeological Resources:**

Pursuant to Application No. 180116-19, the District has received correspondence dated January 30, 2018 from the Florida Department of State, Division of Historical Resources indicating that no significant archaeological or historical resources are recorded on the site; therefore the project is unlikely to have an effect upon any such resources. This permit does not release the permittee from complying with any other agencies' requirements in the event that historical and/or archaeological resources are found on the site.

**DEO/CZM Consistency Review:**

Issuance of this permit constitutes a finding of consistency with the Florida Coastal Management Program.

**Third Party Interest:**

No third party has contacted the District with concerns about this application.

**Enforcement:**

There has been no enforcement activity associated with this application.

**STAFF REVIEW:**

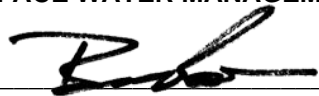
**DIVISION APPROVAL:**

**NATURAL RESOURCE MANAGEMENT:**

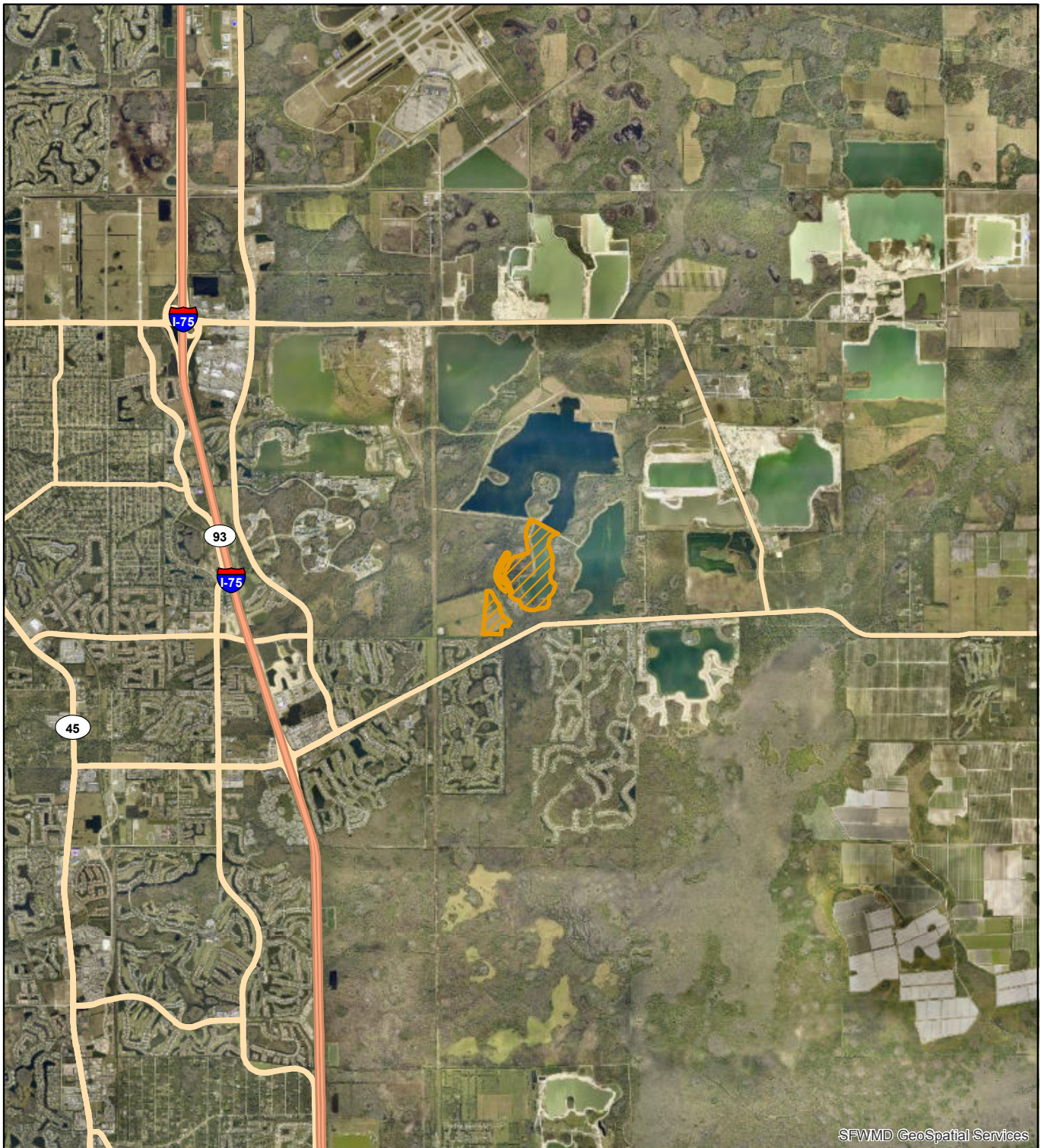
  
\_\_\_\_\_  
Laura Layman

**DATE:** 1/17/19

**SURFACE WATER MANAGEMENT:**

  
\_\_\_\_\_  
Brian Rose, P.E.

**DATE:** 1/17/19



|   |                                   |                |  |
|---|-----------------------------------|----------------|--|
| <b>Exhibit No: 1</b>  | Exhibit Created On:<br>2018-12-26 | LEE COUNTY, FL | <div data-bbox="953 1614 1034 1659" data-label="Image"> </div> <div data-bbox="1072 1620 1191 1653" data-label="Text"> <b>Application</b> </div> <div data-bbox="1337 1608 1423 1770" data-label="Image"> </div> <div data-bbox="929 1669 1207 1699" data-label="Text">         Permit No: 36-05075-P-03       </div> <div data-bbox="929 1741 1252 1772" data-label="Text">         Application Number: 181221-2       </div> |
| <div data-bbox="180 1774 269 1864" data-label="Image"> </div> <div data-bbox="283 1679 721 1747" data-label="Text"> <p align="center"><b>REGULATION DIVISION</b><br/>Project Name: WILDBLUE SOUTHWEST</p> </div> <div data-bbox="352 1824 729 1888" data-label="Figure"> </div> <div data-bbox="815 1764 870 1874" data-label="Image"> </div> |                                   |                |  |



ENVIRONMENTAL RESOURCE PERMIT PLANS  
FOR

WILDBLUE SOUTHWEST  
MAJOR MODIFICATION TO ERP #36-05075-P-03

PART OF SECTION 7,8,17-20, TOWNSHIP 46 SOUTH, RANGE 26 EAST  
FORT MYERS, LEE COUNTY, FLORIDA

PROJECT DATA

|  |  |   |
|--|--|---|
| <div>SITE ADDRESS</div> <div>13500 ALICO ROAD<br/>FT. MYERS, FLORIDA 33913</div>   | <div>PROJECT DATUM</div> <div>STATE PLANE FLORIDA WEST ZONE NAD 1983 (NSRS2007)<br/>NORTH AMERICAN VERTICAL DATUM (NAVD) 1988</div>  |   |
| <div>ZONING</div> <div>MPD (RESOLUTION Z-15-021)</div>   | <div>RECORD PLAT</div> <div>PLT2017-00019<br/>INSTRUMENT NO.: 2017000216031</div>  |   |
| <div>FLOOD ZONE</div> <div>ACCORDING TO FIRM 12071C0625 EFFECTIVE DATE<br/>AUGUST 28, 2008, THE SUBJECT PARCEL IS NOT<br/>LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA<br/>(PANEL NOT PRINTED)</div>   | <div>STRAP NUMBERS</div> <div>08-46-26-L2-050C2.00CE 17-46-26-L1-050F1.0000<br/>17-46-26-L3-050C3.00CE 17-46-26-L4-050C5.00CE<br/>18-46-26-L3-050C1.00CE 19-46-26-L2-050F2.0000<br/>20-46-26-L2-050C7.00CE 20-46-26-L2-050C8.00CE<br/>20-46-26-L2-050C9.00CE 20-46-26-L2-050F3.0000<br/>20-46-26-L3-050C10.00CE 20-46-26-L4-050C6.00CE</div> |   |
| <div>PERMIT REQUIREMENTS</div>   |  |   |
| <div>AGENCY</div> <div>S. FLORIDA WATER MANAGEMENT DISTRICT<br/>LEE COUNTY DEVELOPMENT ORDER<br/>FLORIDA DEPARTMENT OF HEALTH<br/>ORIDA DEPT. OF ENVIRONMENTAL PROTECTION<br/>F.D.O.T. CONNECTION PERMIT<br/>F.D.O.T. DRAINAGE CONNECTION PERMIT<br/>F.D.O.T. UTILITY PERMIT<br/>ARMY CORPS OF ENGINEERS<br/>F.D.E.P. NOTICE OF INTENT</div> | <div>STATUS</div> <div>APPROVED<br/>APPROVED<br/>PENDING<br/>PENDING<br/>N/A<br/>N/A<br/>N/A<br/>APPROVED<br/>APPROVED</div>   | <div>NOTES</div> <div>36-05075-P<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>SAJ-2003-10995<br/>-</div> |

NOTE: CONTRACTOR MUST OBTAIN AND KEEP ON FILE A COPY OF ALL PERMITS  
REQUIRED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY

DESIGN TEAM

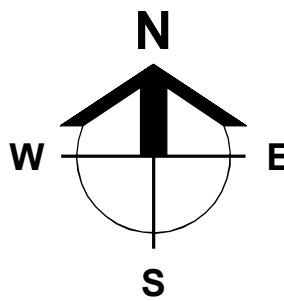
| PROJECT ENGINEER               | PROJECT MANAGEMENT    |
|--------------------------------|-----------------------|
| TIMOTHY B. GAVIN, P.E.         | CHRIS VAN BUSKIRK     |
| DESIGN ENGINEER                | PROJECT SURVEYOR      |
| TIMOTHY B. GAVIN, P.E.         | SCOTT A. WHEELER, PSM |
| LEAD DESIGN TECHNICIAN         | SITE PLANNING         |
| AMBER GAVIN, E.I.<br>GUY SAPEN | JENNIFER SAPEN, AICP  |
| DESIGN STAFF                   | LAND PLANNING         |
| -                              | JENNIFER SAPEN, AICP  |
| QUALITY CONTROL                | RECORD DRAWINGS       |
| CHRIS VAN BUSKIRK              |                       |

THESE PLANS MAY HAVE BEEN MODIFIED IN SIZE BY REPRODUCTION.  
THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

ALL DIMENSIONS ARE IN FEET.



PROJECT  
LOCATION



LOCATION MAP



SCALE IN FEET



INDEX OF DRAWINGS

| SHEET      | DESCRIPTION                                    | XREF | DRAWING NAME |
|------------|--|------|--------------|
| 1.0        | COVER SHEET AND LOCATION MAP                   | B    | 23473E01.DWG |
| 2.0        | STANDARD NOTES, LEGEND, AND ABBREVIATIONS      | -    | 23473E02.DWG |
| 3.0        | AERIAL PHOTOGRAPH AND EXISTING CONDITIONS PLAN | B    | 23473E06.DWG |
| 4.0-4.1    | MASTER SITE AND PHASING PLANS                  | A    | 23473E10.DWG |
| 5.0-5.1    | MASTER DRAINAGE PLAN                           | A    | 23473E11.DWG |
| 6.0        | GENERAL NOTES AND TABLES                       | -    | 23473E12.DWG |
| 7.10       | DETAILED PAVING, GRADING, AND DRAINAGE PLANS   | A    | 23473E15.DWG |
| 7.17       | OFFSITE TURN-LANE IMPROVEMENT PLANS            | A    | 23473E15.DWG |
| 7.18       | DETAILED COMMERCIAL DRAINAGE PLANS             | A    | 23473E15.DWG |
| 8.0-8.6    | TYPICAL SECTIONS AND DRAINAGE DETAILS          | -    | 23473E18.DWG |
| 9.0-9.1    | CONTROL STRUCTURE DETAILS                      | -    | 23473E42.DWG |
| 10.0       | EROSION CONTROL DETAILS                        | -    | 23473E50.DWG |
| 11.0- 11.1 | STORMWATER POLLUTION PREVENTION PLAN           | A    | 23473E52.DWG |
| 12.0       | DOCK & BOAT RAMP DETAILS                       | A    | 23473E99.DWG |

CROSS-REFERENCED DRAWINGS:

| XREF | DESCRIPTION        | DRAWING NAME |
|------|--------------------|--------------|
| A    | BASE LINEWORK PLAN | 23473E00.DWG |
| B    | AERIAL PHOTOGRAPH  | IMAGE_1.JPG  |

PLAN STATUS

APPROVAL SUBMITTALS PLANS  
NOT FOR CONSTRUCTION

**Barraco**  
and Associates, Inc.  
CIVIL ENGINEERING - LAND SURVEYING  
LAND PLANNING

[www.barraco.net](http://www.barraco.net)

2271 MCGREGOR BLVD., SUITE 100  
POST OFFICE DRAWER 2800  
FORT MYERS, FLORIDA 33902-2800  
PHONE (239) 461-3170  
FAX (239) 461-3169

FLORIDA CERTIFICATES OF AUTHORIZATION  
ENGINEERING 7995 - SURVEYING LB-6940

PREPARED FOR



PULTE HOME CORPORATION  
24311 WALDEN CENTER DRIVE  
SUITE 300  
BONITA SPRINGS, FLORIDA 34134

PHONE (239) 498-7711  
FAX (239) 498-7707

[WWW.PULTEHOMES.COM](http://WWW.PULTEHOMES.COM)

PROJECT DESCRIPTION

**WildBlue**

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

TIMOTHY B. GAVIN, P.E., FOR THE FIRM  
FLORIDA P.E. NO. 70875 - TIMG@BARRACO.NET

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FILE NAME J:\23473\DWG\ERP\EXHIBITS\

LOCATION J:\23473\DWG\ERP\EXHIBITS\

PLOT DATE WED, 12-19-2018 - 2:15 PM

PLOT BY TIM GAVIN

CROSS REFERENCED DRAWINGS

MASTER = BAI-COVER-1.DWG

PLAN REVISIONS

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PLAN STATUS

APPROVAL SUBMITTALS PLANS  
NOT FOR CONSTRUCTION

COVER SHEET  
AND  
LOCATION MAP

| PROJECT / FILE NO. | SHEET NUMBER |
|--------------------|--------------|
| 23473              | 1.0          |



## STANDARD ABBREVIATIONS

NOTE: SEE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS INDEX 001 FOR ADDITIONAL ABBREVIATIONS NOT LISTED BELOW.

|          |  |          |  |           |                                |          |   |   |   |
|----------|--|----------|--|-----------|--------------------------------|----------|---|---|---|
| AASHTO   | AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS | CULV.    | CULVERT  | FIN.      | FINISH                         | M.H.W.   | MEAN HIGH WATER                           | REL.  | RELOCATED                               |
| ABD.     | ABANDONED  | C.Y.     | CUBIC YARD   | FL.       | FLORIDA                        | MILE     | MILE                                      | REM.  | REMOVED                                 |
| AC.      | ACRE   | CYL.     | CYLINDRICAL  | FLX.      | FLEXIBLE                       | MIN.     | MINIMUM                                   | REQ.  | REQUIRED                                |
| A.D.A.   | AMERICANS WITH DISABILITIES ACT                                    | D.       | DEGREE OF CURVATURE                                  | F.M.      | FORCEMAIN                      | MISC.    | MISCELLANEOUS                             | RES.  | RESIDENCE                               |
| ADJ.     | ADJUST   | D.A.     | DRAINAGE AREA  | F.O.C.    | FACE OF CURB                   | M.L.W.   | MEAN LOW WATER                            | R.M.  | REFERENCE MONUMENT                      |
| A.D.T.   | AVERAGE DAILY TRAFFIC  | D.B.     | DEED BOOK  | F.P.S.    | FEET PER SECOND                | MM.      | MILLIMETER                                | R.P.B.D.                                    | RAISED REFLECTIVE PAVEMENT MARKERS      |
| A.E.     | ACCESS EASEMENT  | D.B.I.   | DITCH BOTTOM INLET                                   | FREQ.     | FREQUENCY                      | MOD.     | MODIFY OR MODIFIED                        | REDUCED PRESSURE BACKFLOW PREVENTION DEVICE |   |
| A.A.D.T. | ANNUAL AVERAGE DAILY TRAFFIC                                       | D.B.L.   | DOUBLE   | FT.       | FOOT OR FEET                   | M.O.T.   | MILES PER HOUR                            | R.R.  | RAILROAD                                |
| AGG.     | AGGREGATE  | D.C.S.   | DEGREE OF CURVATURE (SPIRAL)                         | FURN.     | FURNISH                        | MON.     | MONUMENT                                  | RT.   | RIGHT                                   |
| A.I.C.P. | AMERICAN INSTITUTE OF CERTIFIED PLANNERS                           | D.D.C.V. | DOUBLE DETECTOR CHECK VALVE                          | G.        | GRAM                           | M.P.H.   | MANUAL ON UNIFORM TRAFFIC M.U.T.C.A.      | R.W.  | RIGHT OF WAY                            |
| ALT.     | ALTERNATE  | D.E.     | DRAINAGE EASEMENT                                    | GALV.     | GALVANIZED                     | N.       | NORTH                                     | SAN.  | SANITARY                                |
| ALUM.    | ALUMINUM   | DECEL.   | DECELERATION   | GALV.     | GALVANIZED                     | N/A      | NOT APPLICABLE                            | SCH.  | SCHEDULE                                |
| A.M.     | 12:00 MIDNIGHT UNTIL 11:59 NOON                                    | DEMOL.   | DEMOLITION   | GAR.      | GARAGE                         | N.       | NORTH                                     | SCH.  | SCHEDULE                                |
| A.N.S.I. | AMERICAN NATIONAL STANDARDS  | DEN.     | DENSITY  | GOV'T.    | GOVERNMENT                     | NE       | NORTHEAST                                 | SEC.  | SECTION                                 |
| APPL.    | APPLICATION  | DEPT.    | DEPARTMENT   | GR.       | GROSS MILE                     | NGVD     | NATIONAL GEODETTIC VERTICAL DATUM OF 1929 | SED.  | SEDIMENT                                |
| ASPH.    | ASPHALT  | DET.     | DETOUR   | GM.       | GROUND                         | NAVD     | NORTH AMERICAN VERTICAL DATUM OF 1988     | SE.   | SOUTHEAST                               |
| ASSY.    | ASSEMBLY   | D.H.W.   | DESIGN HIGH WATER                                    | GRND.     | GROUND                         | N.G.S.   | NATIONAL GEODETTIC SURVEY                 | SH.   | SHOULDER                                |
| A.S.T.M. | AMERICAN SOCIETY FOR TESTING MATERIALS                             | DIA.     | DIAMETER   | GV.       | GATE VALVE                     | N.M.     | NET MILE                                  | S.H.LDR.                                    | SEASONAL HIGH WATER TABLE               |
| AUX.     | AUXILIARY  | D.I.P.   | DUCTILE IRON PIPE                                    | H.        | HEIGHT                         | N.T.S.   | NOT TO SCALE                              | S.H.W.T.                                    | SPECIFIC GRAVITY                        |
| AVE.     | AVENUE   | DIR.     | DIRECTION  | H.D.      | HIGH DENSITY                   | N.W.G.W. | NORMAL HIGH WATER                         | SHT.  | SHOULDER                                |
| AVG.     | AVERAGE  | DIST.    | DISTANCE   | H.P.      | HIGH PRESSURE OR HORSE POWER   | N.W.     | NORTHWEST                                 | SHT.  | SHOULDER                                |
| B.       | BURIED   | D.S.     | DESIGN SPEED   | H.W.      | HIGH WATER                     | N.D.     | NORTH DIRECTION                           | S.I.  | SQUARE FOOT                             |
| B.E.     | BURIED ELECTRIC  | D.S.W.T. | DRY SEASON WATER TABLE                               | H.WY.     | HIGHWAY                        | O.E.     | OVERHEAD ELECTRIC                         | S.T.  | STATE ROAD                              |
| BLVD.    | BOULEVARD  | DWG.     | DRAWING  | HYD.      | HYDRANT                        | O.P.T.   | OPTIONAL                                  | ST.   | STREET                                  |
| B.M.     | BENCHMARK  | E.       | EAST   | EXT.      | EXTERNAL ANGLE (DELTA)         | O.R.     | OFFICIAL RECORD BOOK                      | STA.  | STATION                                 |
| B.O.C.   | BACK OF CURB   | EA.      | EACH   | I.        | INSIDE DIAMETER                | O.U.     | OUNCE                                     | STAB.                                       | STABILITY OR STABILIZATION              |
| BT.      | BOTTOM   | E.       | EACH   | I.E.      | INVERT ELEVATION               | P.       | PI  | STD.  | STANDARD                                |
| B.P.     | BORROW PIT   | ED.      | EACH DAY   | IN.       | INCH                           | P.       | PI  | STR.  | STRUCTURE                               |
| BR.      | BRIDGE   | E.L.     | ELEVATION  | INC.      | INCORPORATED                   | P.A.V.T. | PAVEMENT                                  | STR.  | STRUCTURE                               |
| BRG.     | BEARING  | E.L.E.V. | ELEVATION  | INCL.     | INCORPORATED                   | P.E.     | PROFESSIONAL ENGINEER                     | T.  | TANGENT                                 |
| B.T.     | BURIED TELEPHONE   | ELEC.    | ELECTRIC   | IP.       | IRON PIPE                      | PED.     | PEDESTRIAN OR PEDESTAL                    | T.B.D.                                      | TO BE DETERMINED                        |
| BTWN.    | BETWEEN  | ELIP.    | ELLIPTICAL   | IRR.      | IRRIGATION                     | PG.      | PROFILE GRADE LINE                        | T.B.R.                                      | TO BE REMOVED                           |
| BW.      | BARBED WIRE  | ENCL.    | ENCLOSURE  | IR.       | IRON ROD                       | P.G.     | PROFILE GRADE LINE                        | T.E.  | TELEPHONE                               |
| CALC.    | CALCULATED   | E.O.P.   | EDGE OF PAVEMENT                                     | INST.     | INSTALL OR INSTALLATION        | P.I.     | PRIVATE IRRIGATION EASEMENT               | TEL.  | TELEPHONE                               |
| (C)      | CALCULATED   | E.O.W.   | EDGE OF WATER  | INST. NO. | INSTRUMENT NUMBER              | P.O.C.   | POINT ON CURVE                            | TEMP.                                       | TEMPORARY                               |
| CAP.     | CAPACITY   | E.Q.     | EQUATION OR EQUAL                                    | INT.      | INTERSECTION                   | P.O.R.   | POINT OF REVERSE                          | TON   | TON                                     |
| CATV.    | CABLE TELEVISION   | EQUIP.   | EQUIPMENT  | INV.      | INVERT                         | P.P.     | POINT OF REVERSE                          | TYP.  | TYPICAL                                 |
| C.B.     | CATCH BASIN  | ELI.P.   | ELLIPTICAL REINFORCED                                | J.B.      | JUNCTION BOX                   | P.H.     | POINT OF INTERSECTION                     | UG.   | UNDERGROUND                             |
| CBS.     | CONCRETE BOX CULVERT   | E.R.C.P. | CONCRETE PIPE  | J.        | JOINT                          | P.H.     | POINT OF INTERSECTION                     | U.S.C.                                      | UNITED STATES COAST AND GEODETIC SURVEY |
| CC.      | CENTER TO CENTER   | ESMT.    | EASEMENT   | K.        | RATE OF VERTICAL CURVATURE     | P.I.     | POINT OF INTERSECTION                     | UTIL.                                       | UTILITY                                 |
| CCMB.    | COUNTY COMMISSIONERS MINUTES BOOK                                  | ETC.     | ET CETERA (AND SO FORTH)                             | KM.       | KILOMETER                      | P.O.C.   | POINT ON CURVE                            | USC&GS                                      | UNITED STATES COAST AND GEODETIC SURVEY |
| CEM.     | CEMENT   | ENDW.    | ENDWALL  | KV.       | KILOVOLT                       | P.P.     | POINT OF INTERSECTION                     | USGS  | UNITED STATES GEOLOGICAL SURVEY         |
| C.F.     | CUBIC FOOT   | EXCAV.   | EXCAVATION   | L.        | LENGTH, LENGTH OF CURVE, LITRE | P.P.     | POINT OF INTERSECTION                     | UTIL.                                       | UTILITY                                 |
| C.I.     | CAST IRON  | EX.      | EXISTING   | L.A.      | LATERAL OR LATITUDE            | PROP.    | PROPERTY                                  | V.  | VOLUME                                  |
| C.I.P.   | CAST IRON PIPE   | EXT.     | EXTENSION  | L.B.      | POUND OR LICENSED BUSINESS     | P.P.     | POINT OF INTERSECTION                     | V.C.  | VERTICAL CURVE                          |
| C.L.     | CENTER LINE  | F.       | FILL   | L.C.R.    | LEE COUNTY RECORDS             | P.S.     | POUNDS PER SQUARE INCH                    | V.H.  | VERTICAL HATCH                          |
| CONC.    | CONCRETE   | F.C.B.C. | FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION | L.C.U.E.  | LEE COUNTY UTILITIES EASEMENT  | P.S.M.   | PROFESSIONAL SURVEYOR AND MAPPER          | V.F.  | VERTICAL FOOT                           |
| C.M.     | CONCRETE MONUMENT  | F.D.     | FOUND  | L.F.      | LINEAL FOOT                    | P.V.C.   | POLYVINYL CHLORIDE PIPE                   | VERT.                                       | VERTICAL                                |
| C.M.P.   | CORRUGATED METAL PIPE  | F.D.C.   | FOUND  | L.M.E.    | LAKE MAINTENANCE EASEMENT      | P.V.     | POINT OF VERTICAL INTERSECTION            | VOL.  | VOLUME                                  |
| CO.      | COUNTY OR COMPANY  | F.D.C.   | FOUND  | L.M.E.    | LAKE MAINTENANCE EASEMENT      | P.V.     | POINT OF VERTICAL INTERSECTION            | W.  | WEST                                    |
| COL.     | COLUMN   | F.D.C.   | FOUND  | L.M.E.    | LAKE MAINTENANCE EASEMENT      | P.V.     | POINT OF VERTICAL INTERSECTION            | WIT.  | WITNESS                                 |
| COM.     | COMMERCIAL   | F.D.C.   | FOUND  | L.M.E.    | LAKE MAINTENANCE EASEMENT      | P.V.     | POINT OF VERTICAL INTERSECTION            | W.M.  | WATERMAIN                               |
| CONST.   | CONSTRUCTION   | F.D.C.   | FOUND  | L.M.E.    | LAKE MAINTENANCE EASEMENT      | P.V.     | POINT OF VERTICAL INTERSECTION            | X.  | CROSSING                                |
| CONTR.   | CONTRACTOR   | F.D.C.   | FOUND  | L.M.E.    | LAKE MAINTENANCE EASEMENT      | P.V.     | POINT OF VERTICAL INTERSECTION            | Y.  | COORDINATE DISTANCE (NORTH-SOUTH)       |
| COORD.   | COORDINATE   | F.D.C.   | FOUND  | L.M.E.    | LAKE MAINTENANCE EASEMENT      | P.V.     | POINT OF VERTICAL INTERSECTION            | YR.   | YEAR                                    |
| COR.     | CORNER   | F.D.C.   | FOUND  | L.M.E.    | LAKE MAINTENANCE EASEMENT      | P.V.     | POINT OF VERTICAL INTERSECTION            |   |   |
| C.P.     | CONTROL POINT  | F.D.C.   | FOUND  | L.M.E.    | LAKE MAINTENANCE EASEMENT      | P.V.     | POINT OF VERTICAL INTERSECTION            |   |   |
| C.R.     | CONTROL RADIUS   | F.D.C.   | FOUND  | L.M.E.    | LAKE MAINTENANCE EASEMENT      | P.V.     | POINT OF VERTICAL INTERSECTION            |   |   |
| C.S.     | CONTROL STRUCTURE  | F.D.C.   | FOUND  | L.M.E.    | LAKE MAINTENANCE EASEMENT      | P.V.     | POINT OF VERTICAL INTERSECTION            |   |   |
| CTR.     | CENTER   | F.D.C.   | FOUND  | L.M.E.    | LAKE MAINTENANCE EASEMENT      | P.V.     | POINT OF VERTICAL INTERSECTION            |   |   |
| C.U.E.   | COUNTY UTILITY EASEMENT  | F.H.W.A. | FEDERAL HIGHWAY ADMINISTRATION                       |           |                                |          |   |   |   |

## GENERAL NOTES

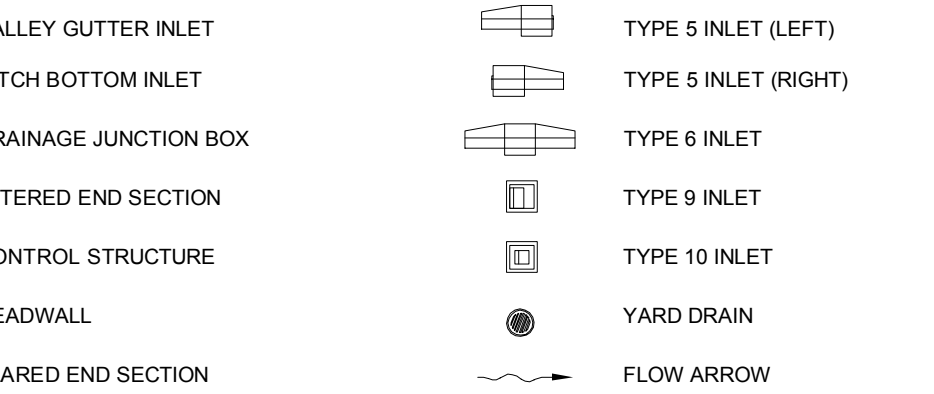
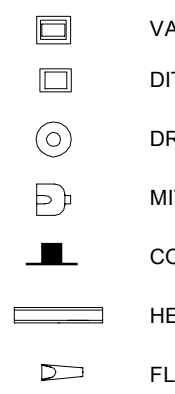
NOTE: SEE ADDITIONAL NOTES ON SITE DEVELOPMENT PLANS AND DETAIL SHEETS WHICH ARE SPECIFIC TO THIS PROJECT. IN THE EVENT OF A CONFLICT, UTILIZE NOTES ON SITE DEVELOPMENT PLANS.

- THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE LATEST EDITIONS OF THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, F.D.O.T. DESIGN STANDARDS AND APPLICABLE DESIGN STANDARDS MODIFICATIONS FOUND AT <http://www.dot.state.fl.us/stdsdesign> AND ALL LOCAL CODES.
- ALL APPROVALS REQUIRED IN CONJUNCTION WITH THESE NOTICES MUST BE OBTAINED IN WRITING BY THE CONTRACTOR, ANY DEVIATIONS FROM THE PLANS AND / OR SPECIFICATIONS MUST BE APPROVED IN ADVANCE BY THE OWNER, ENGINEER AND APPROPRIATE REGULATORY AGENCY.
- CONTRACTOR SHALL ENSURE THAT ALL PERMITS ARE IN PLACE PRIOR TO CONSTRUCTION, THAT COPIES OF ALL PERMITS ARE RETAINED ON SITE AT ALL TIMES AND SHALL ADHERE TO ALL PERMIT CONDITIONS. AT LEAST 72 HOURS PRIOR TO CONSTRUCTION CONTRACTOR SHALL NOTIFY THE LOCAL MAINTENANCE ENGINEERS OFFICE TO SECURE GENERAL USE PERMITS AND / OR OTHER PERMITS REQUIRED FOR WORK WITHIN F.D.O.T. RIGHT-OF-WAY.
- ALL CONSTRUCTION SHALL COMPLY WITH THE LATEST VERSIONS OF THE AMERICANS WITH DISABILITIES ACT (A.D.A.) AND THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION (F.A.C.B.C.). MAXIMUM SLOPE IN ACCESSIBLE PARKING SPACES AND LOADING ZONES SHALL NOT EXCEED 2.0% IN ALL DIRECTIONS. MAXIMUM RUNNING SLOPE SHALL NOT EXCEED 5% AND CROSS SLOPE SHALL NOT EXCEED 2% ON ALL SIDEWALKS AND CROSSWALKS.
- SIDEWALKS ARE DESIGNED AND INTENDED FOR PEDESTRIAN TRAFFIC ONLY. ALL SIDEWALKS AND CURB CUTS SHALL BE IN ACCORDANCE WITH F.D.O.T. INDEX 304 AND SHALL INCLUDE DETECTABLE WARNING SURFACES. VALLEY GUTTER ADJACENT TO CURB CUTS SHALL DEViate FROM STANDARD DETAIL BY NOT EXCEEDING 12:1 SLOPES.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER, OWNER'S REPRESENTATIVE AND APPROPRIATE AGENCY A MINIMUM OF 72 HOURS PRIOR TO ALL INSPECTIONS REQUIRED BY THE RESPECTIVE PERMIT.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AND CONTACT ALL UTILITY COMPANIES FOR LOCATIONS OF EXISTING UTILITIES A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL DETERMINE THE LOCATION OF EXISTING UTILITIES OTHER THAN THOSE SHOWN ON THESE PLANS EXIST. THE LOCATION OF EXISTING UTILITIES, PAVEMENT, VEGETATION AND OTHER IMPROVEMENTS ARE APPROXIMATE ONLY. THE EXACT SIZES, ELEVATIONS AND LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION OR ORDERING MATERIALS. CONTRACTOR SHALL NOTIFY ENGINEER / OWNER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- ANY PUBLIC LAND CORNER OR BENCHMARK WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED AND IF IN DANGER OF BEING DESTROYED MUST BE PROPERLY REFERENCED BY THE CONTRACTOR.
- EXISTING IMPROVEMENTS SHALL REMAIN UNLESS NOTED OTHERWISE, AND SHALL BE RESTORED TO A CONDITION EQUIVALENT TO THAT WHICH EXISTED PRIOR TO COMMENCING CONSTRUCTION, AT NO ADDITIONAL COST TO THE OWNER. EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND USAGE OF THE EXISTING STREETS ADJACENT TO THE PROJECT. ALL TRAFFIC MAINTENANCE CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS. CONTRACTOR SHALL ASSURE THAT ALL TRAFFIC CONTROL DEVICES MEET ACCEPTABLE STANDARDS AS OUTLINED IN THE LATEST EDITION OF THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) "QUALITY TRAFFIC CONTROL DEVICES", AND SHALL IMMEDIATELY REPAIR, REPLACE OR CLEAN DAMAGED, DEFACED OR DIRTY DEVICES. TRAFFIC CONTROL OPERATION PROCEDURES SHALL BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO BEGINNING CONSTRUCTION. ANY IMPACTS TO TRAFFIC FLOW SHALL BE COORDINATED WITH AND APPROVED BY THE APPROPRIATE LOCAL AGENCY.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER AND OWNER'S REPRESENTATIVE.
- THE LOCATIONS OF PROPOSED DRAINAGE STRUCTURES AND UTILITY LINES MAY BE FIELD ADJUSTED TO PRESERVE EXISTING VEGETATION AS APPROVED IN ADVANCE BY THE ENGINEER. UNDERGROUND CONTRACTOR SHALL MINIMIZE THE WORK AREA AND WIDTH OF TRENCHES TO AVOID DISTURBANCES OF NATURAL VEGETATION. EXERCISE CARE TO PROTECT THE ROOTS OF TREES TO REMAIN WITHIN THE BRANCH SPREAD OF SUCH TREES. PERFORM ALL TRENCHING BY HAND. OPEN THE TRENCH ONLY WHEN UTILITIES CAN BE INSTALLED IMMEDIATELY. PRUNE INJURED ROOTS CLEANLY AND BACKFILL AS SOON AS POSSIBLE. SPOIL FROM TRENCHES SHALL BE PLACED ONLY ON PREVIOUSLY CLEARED AREAS OR AS DIRECTED BY THE OWNER. CONTRACTOR SHALL NOT REMOVE OR DISTURB ANY TREES AND/OR SHRUBS WITHOUT PRIOR APPROVAL BY OWNER.
- INSTALLATION OF SUBSURFACE CONSTRUCTION, INCLUDING BUT NOT LIMITED TO WATER, SEWER AND IRRIGATION LINES, PUBLIC UTILITIES AND STORM DRAINAGE IS REQUIRED PRIOR TO COMPACTION OF THE ROADWAY SUBGRADE.
- SUBGRADE AND LIMESTONE BASE COURSES TO BE COMPACTED TO 98% MINIMUM OF THE MAXIMUM DRY DENSITY AS SPECIFIED BY AASHTO T-180 TESTS. CONTRACTOR SHALL PROVIDE THE ENGINEER SATISFACTORY DENSITY TESTS FOR SUBGRADE AND LIMESTONE PRIOR TO PAYMENT OR FINAL ACCEPTANCE. EXCESS ROAD BASE AND COMPACTED SOIL SHALL BE REMOVED FROM ALL LANDSCAPE AREAS PRIOR TO FINAL GRADING.
- SWALE ELEVATIONS SHOWN ARE TO TOP OF SOD. CONTRACTOR TO ADJUST SWALE GRADING ACCORDINGLY. ALL UNPAVED AREAS SHALL BE GRADED TO DRAIN TO THE DRAINAGE SYSTEM TO PREVENT STANDING WATER. YARD DRAINS MAY BE ADDED IN GREEN AREAS AS NECESSARY AT THE DISCRETION OF THE LANDSCAPE ARCHITECT OR ENGINEER, AND SHALL HAVE PEDESTRIAN-SAFE GRATES MEETING THE REQUIREMENTS OF H-20 LOADING.
- BERM ELEVATIONS SHOWN ARE THE MINIMUM REQUIRED. CONTRACTOR MAY EXCEED THE MINIMUM BERM ELEVATION BY UP TO 0.5 FEET PROVIDED ALL SLOPE CRITERIA IS MET. ANY CONSTRUCTION OF BERMS IN EXCESS OF THAT LIMIT MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER WITHIN ONE WEEK OF COMPLETION OF DRAINAGE CONTROL STRUCTURES SO THAT ELEVATIONS MAY BE VERIFIED PRIOR TO COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR IS REQUIRED TO ADJUST ALL EXISTING AND PROPOSED VALVE BOXES, MANHOLE RIMS, GRATES AND OTHER IMPROVEMENTS AS REQUIRED TO MATCH THE FINAL GRADE.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNERS REPRESENTATIVE IN REGARDS TO THE LOCATION, SIZE AND QUANTITY OF ALL CONDUITS FOR UTILITIES, IRRIGATION, LIGHTING AND OTHER IMPROVEMENTS PRIOR TO CONSTRUCTION OF THE ROADWAY SUBGRADE. CASING AND/OR CONDUIT SHALL HAVE A MINIMUM OF 30" COVER, EXTEND 5' BEYOND THE EDGE OF PAVEMENT, BACK OF CURB AND/OR SIDEWALK AT EACH END, AND ENDS SHALL BE SEALED AND DENOTED WITH MARKING TAP.
- CONTRACTOR SHALL NOTIFY THE ENGINEER 24 HOURS PRIOR TO PLACING SOD ON AREAS THAT REQUIRE CRITICAL MINIMUM OR MAXIMUM ELEVATIONS IN ORDER FOR ENGINEER TO VERIFY SUCH ELEVATIONS. THE OBLIGATION TO ACHIEVE MINIMUM ELEVATIONS REMAINS WITH THE CONTRACTOR.
- SOD A 12" STRIP ADJACENT TO ALL PAVEMENT PER F.D.O.T. REQUIREMENTS. SOD ALL UNPAVED DISTURBED AREAS WITHIN F.D.O.T. RIGHT-OF-WAY. ALL OTHER UNPAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED, FERTILIZED AND MULCHED UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL ENCOUNTERED FROM FILL AREAS PRIOR TO PLACEMENT OF FILL, AND SUCH MATERIAL SHALL BE STOCKPILED OR REMOVED AS DIRECTED BY OWNER.
- THE PROPERTY OWNER OR DESIGNATED AUTHORITY IS RESPONSIBLE FOR THE PERPETUAL MAINTENANCE OF ALL FEATURES OF THE SURFACE DRAINAGE SYSTEM AS SHOWN IN THESE DRAWINGS AND AS REQUIRED BY LOCAL, STATE AND FEDERAL PERMITS. IT IS FURTHER RECOMMENDED THAT THE SURFACE WATER MANAGEMENT SYSTEM BE INSPECTED SEMI-ANNUALLY.
- CONTRACTOR SHALL VERIFY DESIGN DETAILS WITH ENGINEER PRIOR TO ORDERING STRUCTURES. STRUCTURE TYPES LABELED ON THE PLANS FOR ITEMS SUCH AS JUNCTION BOXES AND INLETS MAY ONLY BE A REFERENCE TO THE TOP OF THE STRUCTURE. CERTAIN STRUCTURE TYPES REQUIRE A LARGER BOTTOM TO ACCOMMODATE LARGER PIPE SIZES AND/OR PIPE ANGLES. THE APPROPRIATE SIZE AND SHAPE OF THE BOTTOM OF THE STRUCTURE SHALL BE DETERMINED BY THE CONTRACTOR WITH CONSIDERATION GIVEN TO ADJACENT EXISTING OR PROPOSED UTILITIES. THE COST FOR THE ENTIRE STRUCTURE IS INCLUDED IN THE UNIT PRICE FOR THE PRIMARY STRUCTURE.
- STORM DRAIN PIPE LENGTHS ARE APPROXIMATE AND HAVE BEEN MEASURED FROM INSIDE FACE OF STRUCTURE. SANITARY SEWER PIPE LENGTHS ARE APPROXIMATE AND ARE MEASURED FROM THE CENTER OF STRUCTURE.
- CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATION BETWEEN UTILITIES AS SHOWN ON "UTILITY LOCATION DETAIL" AND IN ACCORDANCE WITH APPLICABLE LOCAL UTILITY SERVICE PROVIDER REQUIREMENTS.
- ALL COMPONENTS OF THE POTABLE WATER SYSTEM SHALL BE IN CONFORMANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) STANDARD 61. ALL COMPONENTS, INSTALLATION AND TESTING OF THE POTABLE WATER SYSTEM SHALL BE IN ACCORDANCE WITH ALL A.W.W.A. APPLICABLE STANDARDS.
- CONTRACTOR TO COORDINATE WITH ALL OTHER CONTRACTORS WORKING ON THE PROJECT SITE. THE OWNERS' REPRESENTATIVE AND WITH ELECTRIC, TELEPHONE AND CABLE COMPANIES TO ASSURE THAT NO SANITARY SEWER, WATERLINE OR IRRIGATION SERVICES ARE INSTALLED UNDER PROPOSED TRANSFORMERS.
- DEFLECTION TESTING IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS FOR GRAVITY SEWER MAY NOT BE UNDERTAKEN UNTIL 30 DAYS AFTER FINAL BACKFILLING OF THE TRENCH IS COMPLETE. SEWER DEFLECTION MAY NOT EXCEED THE MAXIMUM PROVIDED IN THE TECHNICAL SPECIFICATIONS OR 5%, WHICHEVER IS LESS.
- ALL GRAVITY SEWER MAINS SHALL BE TESTED WITH A MANDEL WITH A DIAMETER OF NOT LESS THAN 95% OF THE INSIDE PIPE DIAMETER. MANDEL TESTS MUST BE PERFORMED WITHOUT USE OF MECHANICAL PULLING DEVICES.
- NO VEGETATION OR OTHER OBSTRUCTIONS SHALL BE PLACED SO AS TO BLOCK ACCESS OR LINE OF SIGHT TO FIRE HYDRANTS, F.D.C., P.I.V., ETC. IN ACCORDANCE WITH LOCAL FIRE JURISDICTION AND / OR AS SHOWN IN DETAILS.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA FIRE CODE. SEPARATE PERMITS MAY BE REQUIRED FOR ANY DEDICATED FIRE LINE. UNDERGROUND FIRE LINES MUST MEET REQUIREMENT OF NFPA 24. CONTRACTOR TO VERIFY FIRE LINE SIZE WITH BUILDING PLANS PRIOR TO CONST.

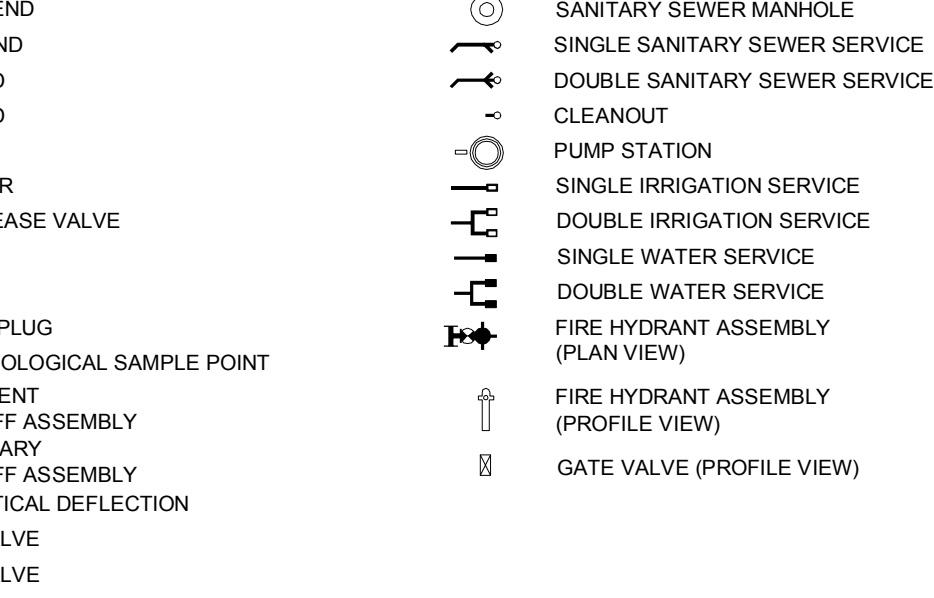
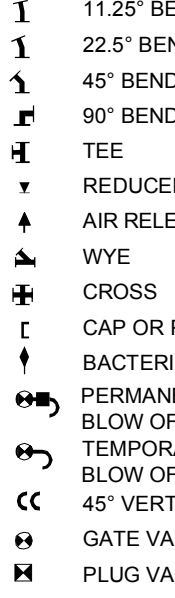
## SYMBOL LEGEND

NOTE: THE SYMBOLS REPRESENTED BELOW ARE STANDARDS UTILIZED BY THIS FIRM AND NOT ALL ARE REQUIRED FOR THE SUBJECT PROJECT.

### DRAINAGE

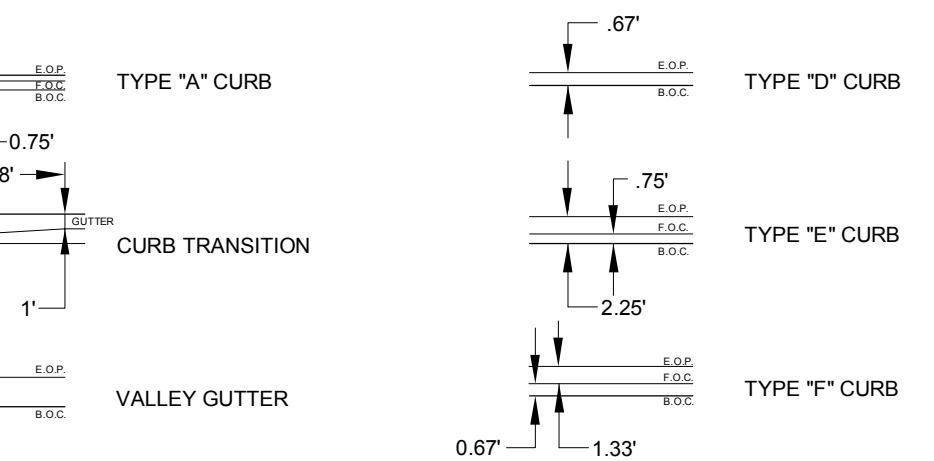
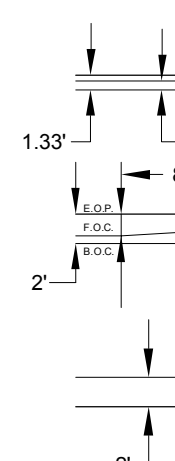


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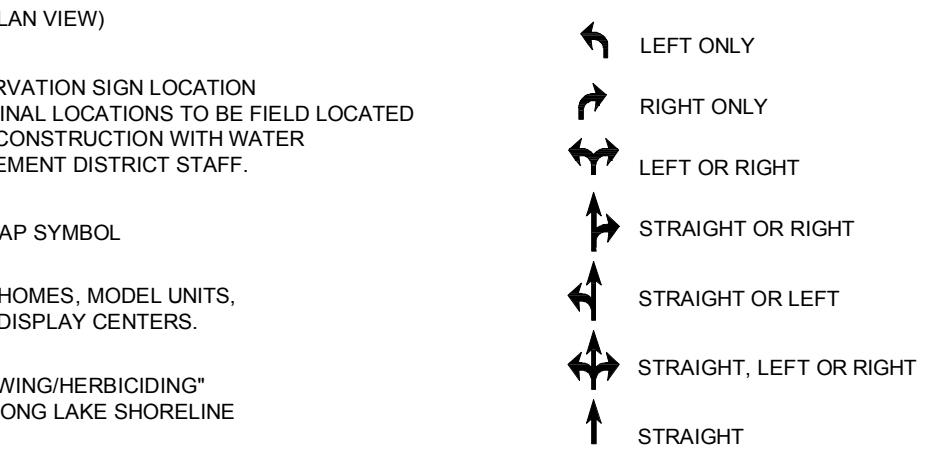
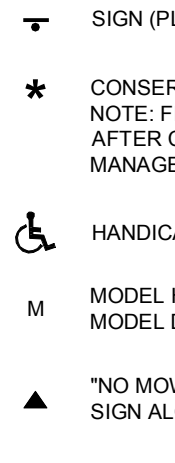


### STANDARD CURB TYPES

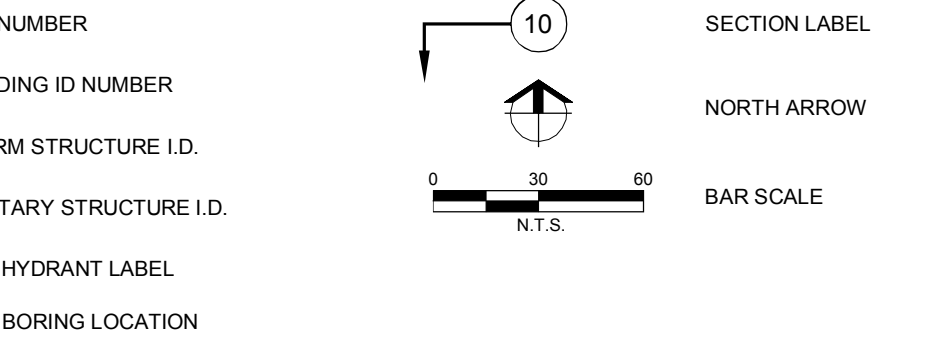
SEE F.D.O.T. INDEX 300 FOR ADDITIONAL DETAILS



### SIGNAGE AND MARKINGS



### IDENTIFICATION

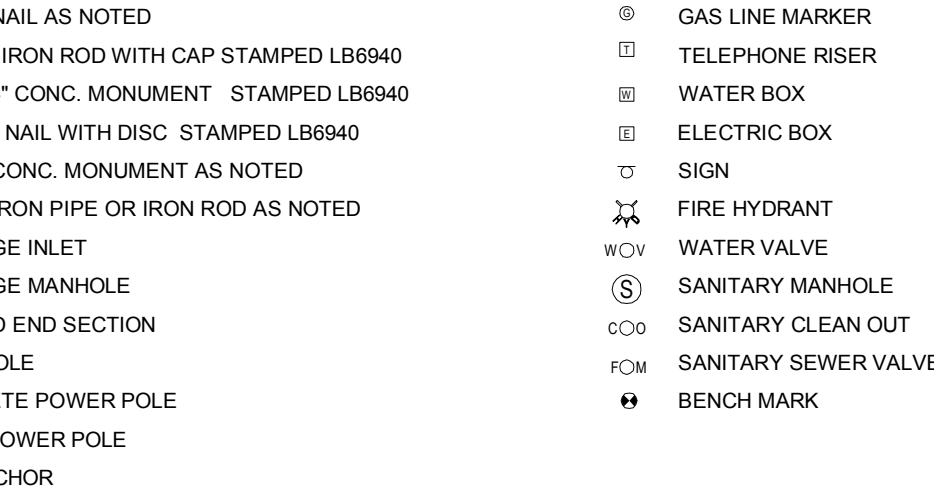


### EROSION CONTROL

NOTE: SEE EROSION CONTROL DETAILS FOR ADDITIONAL INFORMATION.



### SURVEYING

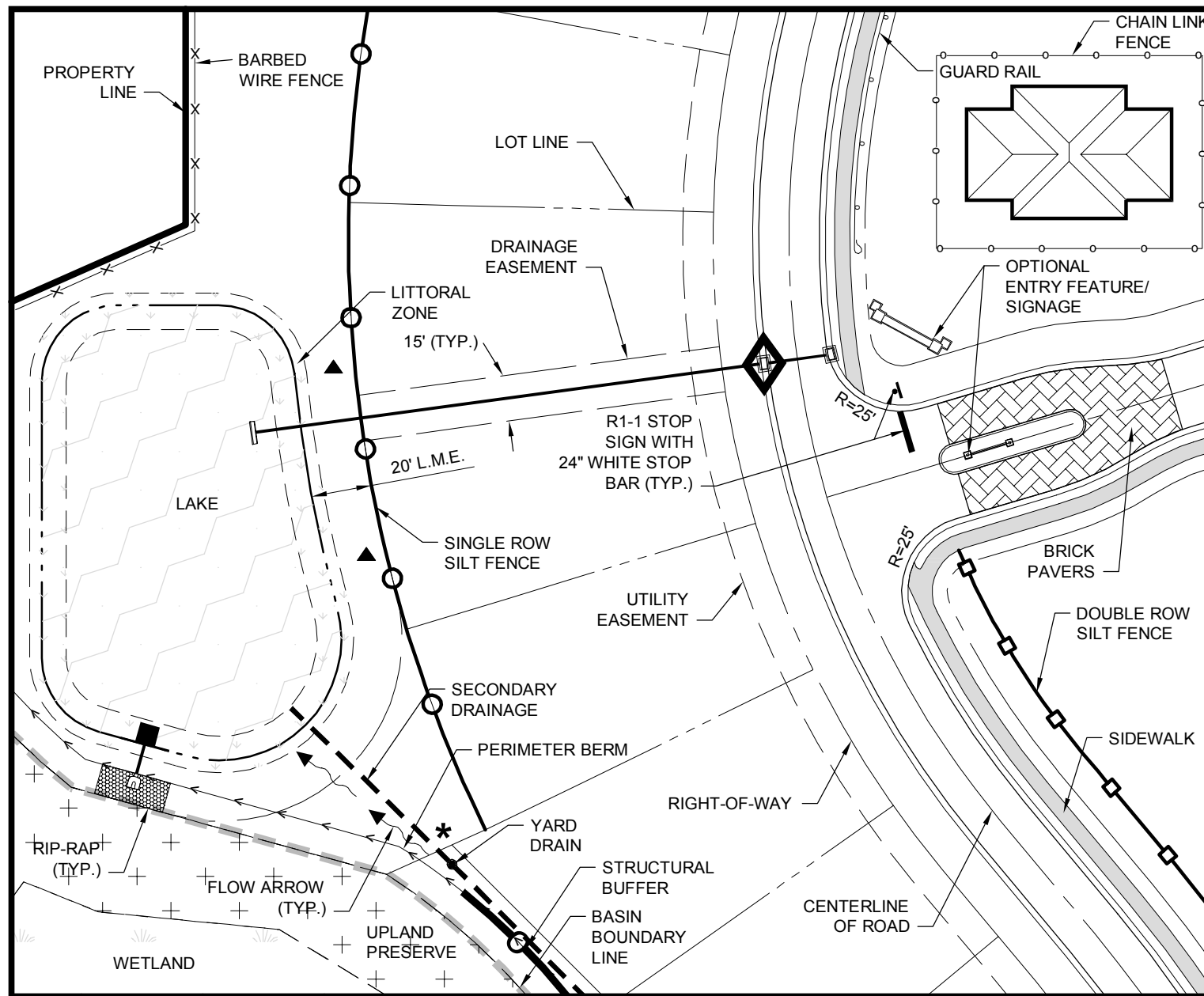


### QUANTITIES AND PAYMENT

CONTRACTOR SHALL REFER TO THE BID TABULATION AND PROJECT TECHNICAL SPECIFICATIONS FOR NOTES REGARDING THE METHOD OF PAYMENT FOR SPECIFIC PAY ITEMS. ITEMS NOT SPECIFICALLY REFERENCED IN THE SPECIFICATIONS OR BID TABULATION SHALL BE PER THE LATEST EDITIONS OF THE APPROPRIATE F.D.O.T. DESIGN STANDARDS INDEX AND F.D.O.T. STANDARD SPECIFICATION SECTION.

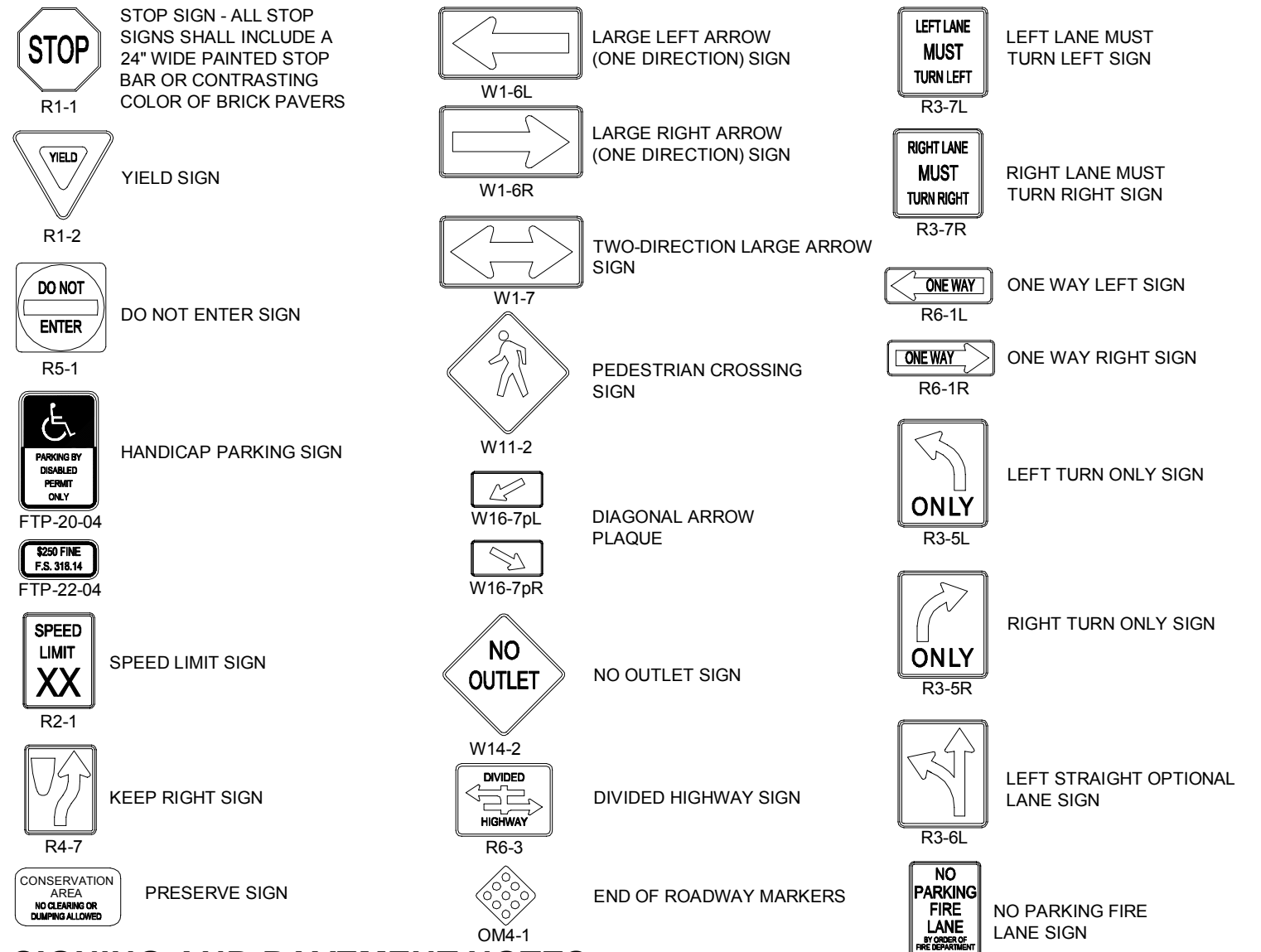
## LINETYPE AND HATCHING LEGEND

NOTE: THE DRAWING BELOW IS PROVIDED AS ONLY AN EXAMPLE OF STANDARD LINETYPES AND HATCHING UTILIZED BY THIS FIRM AND IS NOT REPRESENTATIVE OF THE SUBJECT PROJECT.



## STANDARD STREET SIGNS

THE SIGN LEGEND BELOW IS PROVIDED AS A GRAPHICAL REFERENCE TO ONE OR MORE OF THE SIGNS REQUIRED FOR THIS PROJECT. THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) SHOULD BE REFERENCED FOR SPECIFIC DETAILS AND LOCATION REQUIREMENTS.



## SIGNING AND PAVEMENT NOTES

- ALL SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE F.D.O.T. STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION, THE F.D.O.T. DESIGN STANDARDS INDEX, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) AND ALL APPLICABLE LOCAL STANDARDS. UTILIZATION OF THE 2009 M.U.T.C.D. SHALL BE IN ACCORDANCE WITH F.D.O.T. POLICY.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL COMPLY WITH THE LATEST EDITIONS OF THE "STATE OF FLORIDA MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS" AND WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND WITH ALL OTHER GOVERNING SAFETY REGULATIONS.
- PAVEMENT MARKINGS SHALL BE PERMANENT REFLECTIVE TRAFFIC PAINT WITH GLASS BEADS IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATIONS SECTION 710 UNLESS NOTED OTHERWISE. PERMANENT PAVEMENT MARKINGS WITHIN F.D.O.T. RIGHT-OF-WAY SHALL BE THERMOPLASTIC UNLESS NOTED OTHERWISE.
- MATCH EXISTING PAVEMENT MARKINGS AT EXISTING ROADS. ALL EXISTING PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH PROPOSED MARKINGS SHALL BE REMOVED BY HYDRO-BLASTING. EXISTING SIGNS SHALL REMAIN UNLESS NOTED OTHERWISE.
- ALL STOP SIGN LOCATIONS SHALL INCLUDE A 24" PAINTED WHITE STOP BAR. AS AN ALTERNATIVE, ROADS WITH PAVER BRICK SURFACES MAY UTILIZE CONTRASTING COLOR PAVERS IN LIEU OF PAINT.
- THE CONTRACTOR SHALL FURNISH AND INSTALL STREET NAME SIGNS IN ACCORDANCE WITH LOCAL DEVELOPMENT STANDARDS. IF POSSIBLE, STREET NAME SIGNAGE TO BE ATOP ALL STOP SIGNS. DEAD END STREETS SHALL INCLUDE A W14-2P "NO OUTLET" SIGN.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL BLUE / BLUE REFLECTIVE PAVEMENT MARKERS AT THE CENTER OF THE TRAFFIC LANE NEAREST ALL PROPOSED FIRE HYDRANTS.
- ALL ROADWAY SIGNING AND PAVEMENT MARKINGS, STREET NAME SIGNS, ETC. (EXCLUDING PROJECT IDENTIFICATION SIGNING) ARE TO BE INCLUDED IN THE LUMP SUM PRICE FOR SIGNING AND MARKING UNLESS A DETAILED BID QUANTITY BREAKDOWN IS PROVIDED.
- ANY EXISTING SIGN TO REMAIN THAT IS RELOCATED OR DISTURBED DURING CONSTRUCTION SHALL BE RESET TO CURRENT F.D.O.T. STANDARD INDEXES 11860 AND 17302 FOR HEIGHT, OFFSET AND METHOD OF INSTALLATION. ANY SIGNS DAMAGED BY CONTRACTOR SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- ALL SIGNS THAT ARE EMBEDDED IN CONCRETE OR ASPHALT SHALL BE INSTALLED IN A F.D.O.T. APPROVED PIPE SLEEVE.

**NOTE: NOT ALL GENERAL NOTES, ABBREVIATIONS, SYMBOLS OR OTHER STANDARDS SHOWN ON THIS SHEET MAY BE APPLICABLE TO THIS PROJECT.**

## Barraco and Associates, Inc.

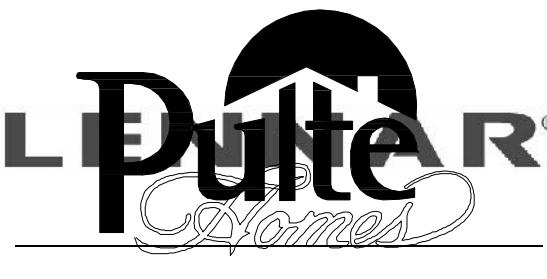
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PROJECT DESCRIPTION



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LOCATION: J:\23473\DWG\ER.P

PLOT DATE: WED. 12-19-2018 - 2:17 PM

PLOT BY: TIM GAVIN

CROSS REFERENCED DRAWINGS

MASTER = BA1-LEGEND-1.DWG

### PLAN REVISIONS

| NO. | DESCRIPTION |
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### PLAN STATUS

APPROVAL SUBMITTALS PLANS  
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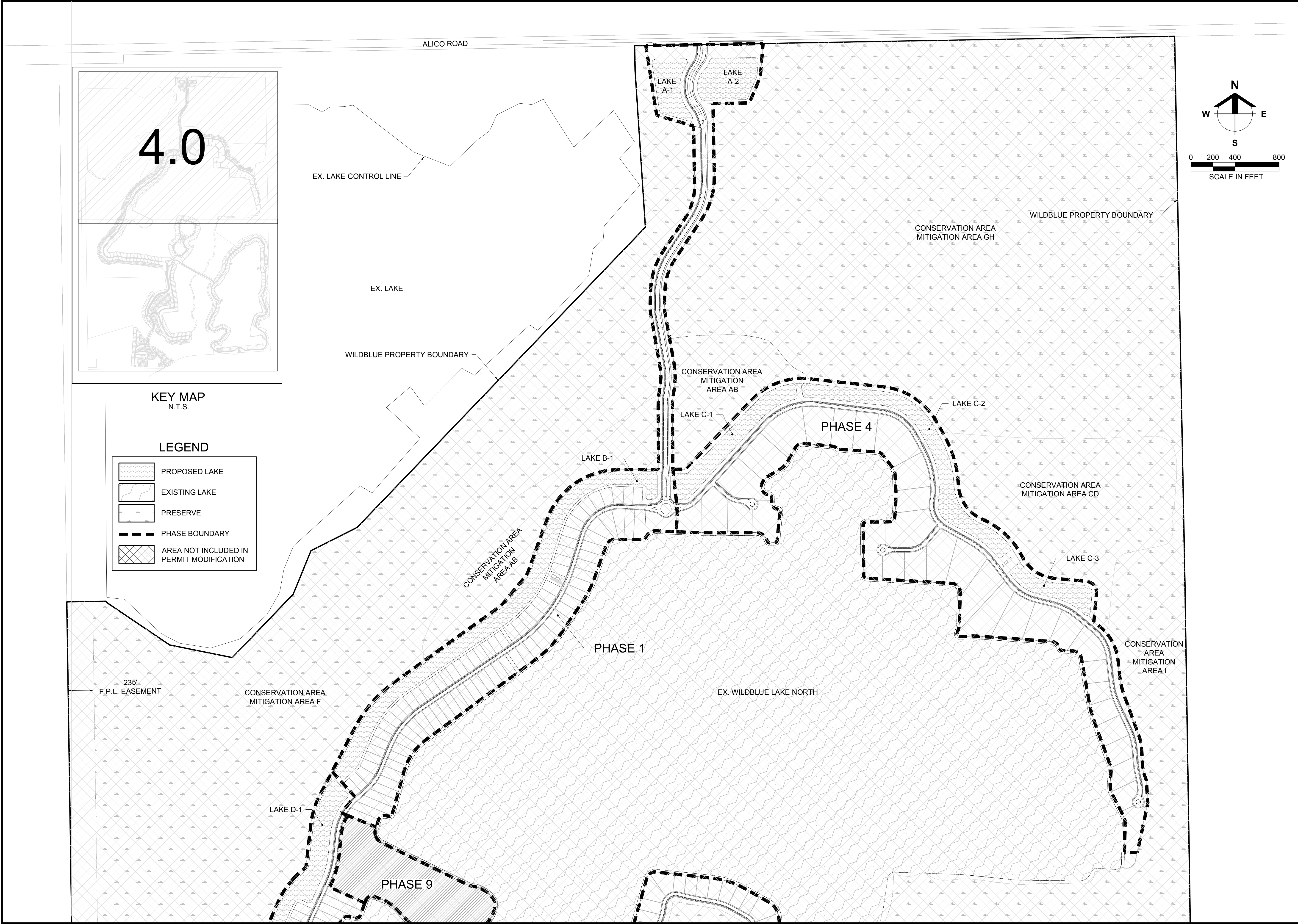
## STANDARD NOTES, LEGEND, AND ABBREVIATIONS

| PROJECT / FILE NO. | SHEET NUMBER |
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| <b>23473</b>       | <b>2.0</b>   |









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TIM GAVIN

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PLAN REVISIONS

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PLAN STATUS

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MASTER SITE AND PHASING PLANS

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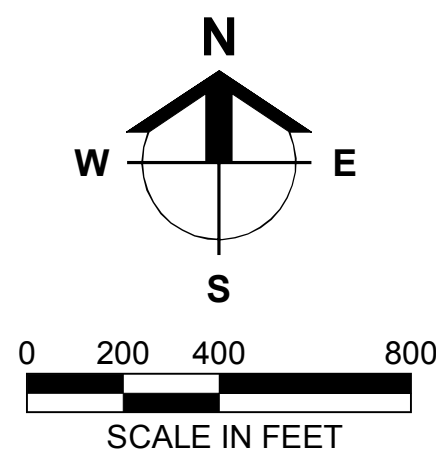
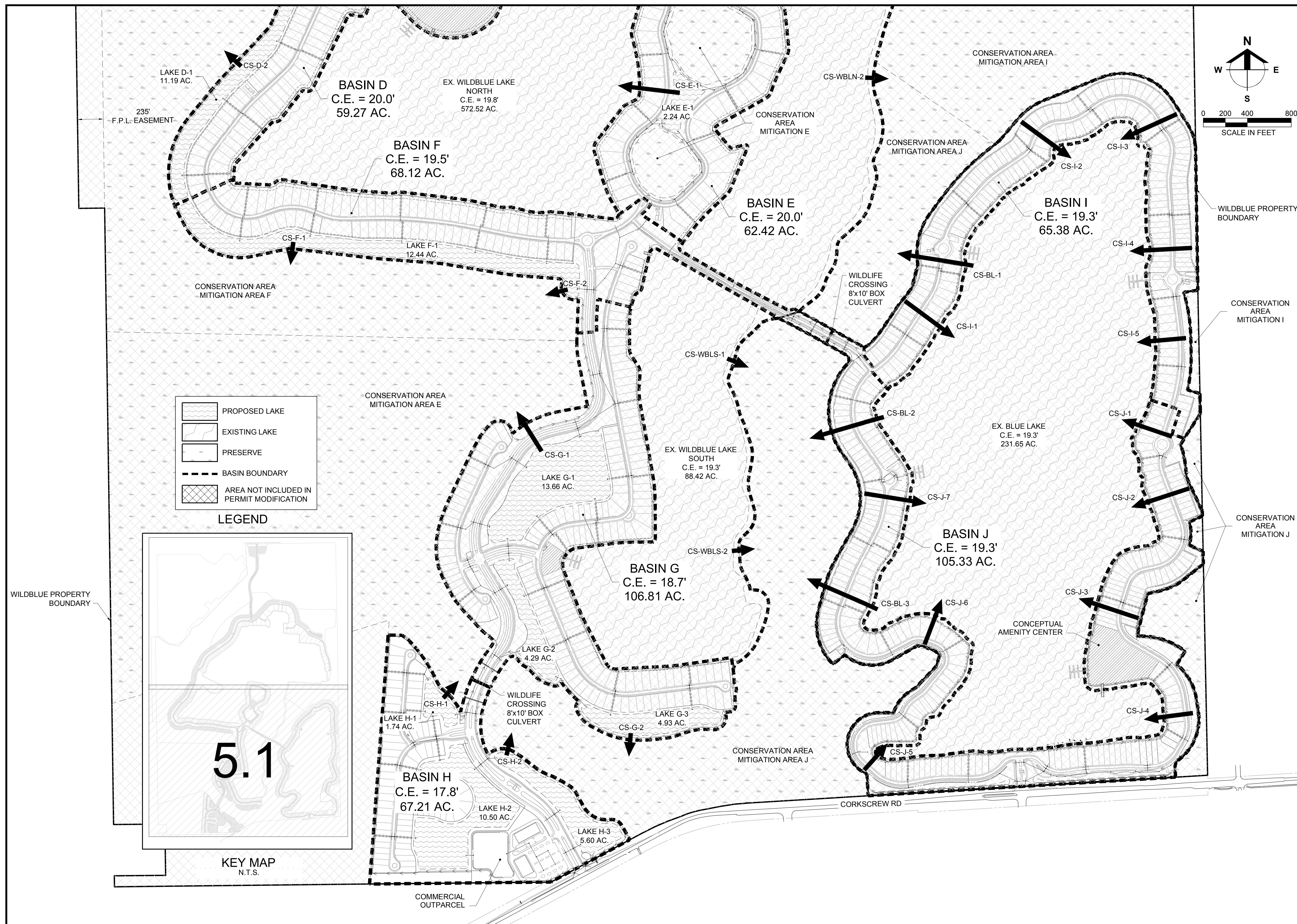












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| CROSS REFERENCED DRAWINGS |          |
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| FIG. 1                    | FIG. 2   |
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| FIG. 225                  | FIG. 226 |
| FIG. 227                  | FIG. 228 |
| FIG. 229                  | FIG. 230 |
| FIG. 231                  | FIG. 232 |
| FIG. 233                  | FIG. 234 |
| FIG. 235                  | FIG. 236 |
| FIG. 237                  | FIG. 238 |
| FIG. 239                  | FIG. 240 |
| FIG. 241                  | FIG. 242 |
| FIG. 243                  | FIG. 244 |
| FIG. 245                  | FIG. 246 |
| FIG. 247                  | FIG. 248 |
| FIG. 249                  | FIG. 250 |
| FIG. 251                  | FIG. 252 |
| FIG. 253                  | FIG. 254 |
| FIG. 255                  | FIG. 256 |
| FIG. 257                  | FIG. 258 |
| FIG. 259                  | FIG. 260 |
| FIG. 261                  | FIG. 262 |
| FIG. 263                  | FIG. 264 |
| FIG. 265                  | FIG. 266 |
| FIG. 267                  | FIG. 268 |
| FIG. 269</                |          |

SURVEY = 23372S00.DWG

| PLAN REVISIONS |             |
|----------------|-------------|
| NO.            | DESCRIPTION |
| 1              | 1.00        |
| 2              | 2.00        |
| 3              | 3.00        |
| 4              | 4.00        |
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| 91             | 91.00       |
| 92             | 92.00       |
| 93             | 93.00       |
| 94             | 94.00       |
| 95             | 95.00       |
| 96             | 96.00       |
| 97             | 97.00       |
| 98             | 98.00       |
| 99             | 99.00       |
| 100            | 100.00      |

| PLAN STATUS  |
|--|
| <p> <input type="checkbox"/> <b>Active</b><br/> <input type="checkbox"/> <b>On Hold</b><br/> <input type="checkbox"/> <b>Completed</b><br/> <input type="checkbox"/> <b>Cancelled</b><br/> <input type="checkbox"/> <b>Expired</b><br/> <input type="checkbox"/> <b>Other</b> </p> |

APPROVAL SUBMITTALS PLANS  
NOT FOR CONSTRUCTION

MASTER  
DRAINAGE PLAN  
B

|                    |              |
|--------------------|--------------|
| PROJECT / FILE NO. | SHEET NUMBER |
|--------------------|--------------|

|   |   |
|---|---|
| 1 | 2 |
| 3 | 4 |

|       |     |
|-------|-----|
| 23473 | 5.1 |
|-------|-----|



| LAND USE SUMMARY                |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                  |
|---------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|
| CONSTRUCTION & OPERATION        |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                  |
| LAND USE                        | BASIN A<br>(ACRES) | BASIN B<br>(ACRES) | BASIN C<br>(ACRES) | BASIN D<br>(ACRES) | BASIN E<br>(ACRES) | BASIN F<br>(ACRES) | BASIN G<br>(ACRES) | BASIN H<br>(ACRES) | BASIN I<br>(ACRES) | BASIN J<br>(ACRES) | TOTAL<br>(ACRES) |
| RESIDENTIAL TRACTS              |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                  |
| PAVEMENT                        | 2.38               | 6.41               | 9.90               | 3.21               | 5.05               | 7.45               | 13.26              | 7.36               | 8.74               | 14.75              | 78.51            |
| ROOF                            | 0.00               | 14.21              | 20.69              | 7.55               | 10.97              | 12.74              | 21.05              | 9.07               | 21.34              | 24.90              | 142.52           |
| OPEN SPACE                      | 9.75               | 31.10              | 53.50              | 18.85              | 27.34              | 35.49              | 48.63              | 23.15              | 29.23              | 53.33              | 330.37           |
| LAKE                            | 7.27               | 12.88              | 16.58              | 11.19              | 2.24               | 12.44              | 22.88              | 17.84              | 0.00               | 0.00               | 103.32           |
| DRY DETENTION                   | 0.00               | 0.00               | 0.00               | 0.00               | 0.00               | 0.00               | 0.00               | 2.71               | 6.07               | 6.55               | 15.33            |
| PRESERVE AREA                   | 0.00               | 0.00               | 0.00               | 0.00               | 16.82              | 0.00               | 0.00               | 0.00               | 0.00               | 0.00               | 16.82            |
| TOTAL                           | 19.40              | 64.60              | 100.67             | 40.80              | 62.42              | 68.12              | 105.82             | 60.13              | 65.38              | 99.53              | 686.87           |
| COMMERCIAL TRACTS               |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                  |
| PAVEMENT                        | 0.00               | 0.00               | 0.00               | 0.00               | 0.00               | 0.00               | 0.00               | 3.34               | 0.00               | 0.00               | 3.34             |
| ROOF                            | 0.00               | 0.00               | 0.00               | 0.00               | 0.00               | 0.00               | 0.00               | 0.92               | 0.00               | 0.00               | 0.92             |
| OPEN SPACE                      | 0.00               | 0.00               | 0.00               | 0.00               | 0.00               | 0.00               | 0.00               | 2.82               | 0.00               | 0.00               | 2.82             |
| TOTAL                           | 0.00               | 0.00               | 0.00               | 0.00               | 0.00               | 0.00               | 0.00               | 7.08               | 0.00               | 0.00               | 7.08             |
| TOTAL (C&O)                     | 19.40              | 64.60              | 100.67             | 40.80              | 62.42              | 68.12              | 105.82             | 67.21              | 65.38              | 99.53              | 693.95           |
| FUTURE DEVELOPMENT (CONCEPTUAL) |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                  |
| LAND USE                        | BASIN A<br>(ACRES) | BASIN B<br>(ACRES) | BASIN C<br>(ACRES) | BASIN D<br>(ACRES) | BASIN E<br>(ACRES) | BASIN F<br>(ACRES) | BASIN G<br>(ACRES) | BASIN H<br>(ACRES) | BASIN I<br>(ACRES) | BASIN J<br>(ACRES) | TOTAL<br>(ACRES) |
| AMENITY TRACTS                  |                    |                    |                    |                    |                    |                    |                    |                    |                    |                    |                  |
| PAVEMENT (35%)                  | 0.00               | 0.00               | 0.00               | 6.46               | 0.00               | 0.00               | 0.35               | 0.00               | 0.00               | 2.03               | 8.84             |
| ROOF (10%)                      | 0.00               | 0.00               | 0.00               | 1.85               | 0.00               | 0.00               | 0.10               | 0.00               | 0.00               | 0.58               | 2.53             |
| OPEN SPACE (55%)                | 0.00               | 0.00               | 0.00               | 10.16              | 0.00               | 0.00               | 0.54               | 0.00               | 0.00               | 3.19               | 13.89            |
| TOTAL                           | 0.00               | 0.00               | 0.00               | 18.47              | 0.00               | 0.00               | 0.99               | 0.00               | 0.00               | 5.80               | 25.26            |
| TOTAL (CONCEPTUAL)              | 0.00               | 0.00               | 0.00               | 18.47              | 0.00               | 0.00               | 0.99               | 0.00               | 0.00               | 5.80               | 25.26            |
| TOTAL (PROJECT)                 | 19.40              | 64.60              | 100.67             | 59.27              | 62.42              | 68.12              | 106.81             | 67.21              | 65.38              | 105.33             | 719.21           |

| PRESERVE/UNDISTURBED AREAS (OUTSIDE WMS) |         |
|--|---------|
| WILDBLUE LAKE NORTH                      | 572.52  |
| WILDBLUE LAKE SOUTH                      | 88.42   |
| BLUE LAKE                                | 231.65  |
| FPL ESMNT & OPEN SPACE                   | 36.15   |
| CONSERVATION EASEMENT                    | 1312.46 |
| TOTAL                                    | 2241.20 |

|                |         |
|----------------|---------|
| TOTAL (PERMIT) | 2960.41 |
|----------------|---------|

- NOTES:
- IN ACCORDANCE WITH THE SFWMD BASIS OF REVIEW, AT THE TIME OF PERMIT MODIFICATION REQUESTING CONSTRUCTION AND OPERATION APPROVAL, ALL COMMERCIAL AND/OR INDUSTRIAL USES WILL BE REQUIRED TO PROVIDE 0.5 INCHES OF DRY-PRETREATMENT PRIOR TO THEIR OUTFALL TO THE MASTER SURFACE WATER MANAGEMENT SYSTEM.
  - THE TOTAL (PERMIT) AREA ALL LANDS COVERED BY THIS ENVIRONMENTAL RESOURCE PERMIT AS DESCRIBED BY THE PROJECT BOUNDARY SURVEY AND DOES NOT INCLUDE OFFSITE PAVEMENT AREAS.
  - BASINS A AND H PROVIDE MITIGATING WATER QUALITY TREATMENT FOR PROPOSED OFF-SITE PAVEMENT IMPROVEMENTS TOTALING 0.61 ACRES AND 1.00 ACRES, RESPECTIVELY.

HATCHED AREAS INDICATE BASINS WHICH ARE NOT PROPOSED TO BE MODIFIED AS PART OF THIS APPLICATION.

| WATER MANAGEMENT SUMMARY                    |             |             |             |             |             |             |             |             |             |             |                     |                     |             |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------|---------------------|-------------|
| WATER MANAGEMENT CRITERIA                   | BASIN A     | BASIN B     | BASIN C     | BASIN D     | BASIN E     | BASIN F     | BASIN G     | BASIN H     | BASIN I     | BASIN J     | WILDBLUE LAKE NORTH | WILDBLUE LAKE SOUTH | BLUE LAKE   |
| 5-YR, 1-DAY RAINFALL DEPTH                  | 5.5 in      | 5.5 in      | 5.5 in      | 5.5 in      | 5.5 in      | 5.5 in      | 5.5 in      | 5.5 in      | 5.5 in      | 5.5 in      | 5.5 in              | 5.5 in              | 5.5 in      |
| 25-YR, 3-DAY RAINFALL DEPTH                 | 10.8 in     | 10.8 in     | 10.8 in     | 10.8 in     | 10.8 in     | 10.8 in     | 10.8 in     | 10.8 in     | 10.8 in     | 10.8 in     | 10.8 in             | 10.8 in             | 10.8 in     |
| 100-YR, 3-DAY RAINFALL DEPTH                | 13.5 in     | 13.5 in     | 13.5 in     | 13.5 in     | 13.5 in     | 13.5 in     | 13.5 in     | 13.5 in     | 13.5 in     | 13.5 in     | 13.5 in             | 13.5 in             | 13.5 in     |
| CONTROL ELEVATION                           | 22.50' NAVD | 21.00' NAVD | 21.80' NAVD | 20.00' NAVD | 20.00' NAVD | 19.50' NAVD | 18.70' NAVD | 17.80' NAVD | 19.30' NAVD | 19.30' NAVD | 19.80' NAVD         | 19.30' NAVD         | 19.30' NAVD |
| PEAK 5-YR, 1-DAY STORM STAGE                | 23.10' NAVD | 21.84' NAVD | 23.02' NAVD | 20.86' NAVD | 20.61' NAVD | 20.35' NAVD | 19.76' NAVD | 18.78' NAVD | 20.98' NAVD | 21.26' NAVD | 20.24' NAVD         | 19.74' NAVD         | 19.84' NAVD |
| PEAK 25-YR, 3-DAY STORM STAGE               | 24.66' NAVD | 22.91' NAVD | 25.36' NAVD | 21.97' NAVD | 22.06' NAVD | 21.88' NAVD | 22.04' NAVD | 20.76' NAVD | 21.28' NAVD | 21.51' NAVD | 21.16' NAVD         | 20.36' NAVD         | 20.98' NAVD |
| PEAK 100-YR, 3-DAY (zero-discharge) STAGE   | 24.75' NAVD | 24.33' NAVD | 25.41' NAVD | 23.21' NAVD | 22.92' NAVD | 22.93' NAVD | 22.12' NAVD | 20.79' NAVD | 23.56' NAVD | 23.52' NAVD | 20.93' NAVD         | 20.45' NAVD         | 21.02' NAVD |
| MINIMUM CALCULATED PAVEMENT ELEVATION       | 24.5' NAVD  | 23.0' NAVD  | 23.8' NAVD  | 22.0' NAVD  | 22.0' NAVD  | 21.5' NAVD  | 20.7' NAVD  | 19.8' NAVD  | 21.3' NAVD  | 21.3' NAVD  | -                   | -                   | -           |
| MINIMUM PROPOSED PAVEMENT ELEVATION         | 25.0' NAVD  | 23.5' NAVD  | 24.3' NAVD  | 22.5' NAVD  | 22.5' NAVD  | 22.0' NAVD  | 21.2' NAVD  | 20.3' NAVD  | 21.8' NAVD  | 21.8' NAVD  | -                   | -                   | -           |
| MINIMUM CALCULATED PERIMETER BERM ELEVATION | 24.7' NAVD  | 23.0' NAVD  | 25.4' NAVD  | 22.0' NAVD  | 22.1' NAVD  | 21.9' NAVD  | 22.1' NAVD  | 20.8' NAVD  | 21.3' NAVD  | 21.6' NAVD  | 21.2' NAVD          | 20.4' NAVD          | 21.0' NAVD  |
| MINIMUM PROPOSED PERIMETER BERM ELEVATION   | 24.8' NAVD  | 23.0' NAVD  | 25.5' NAVD  | 22.0' NAVD  | 22.1' NAVD  | 21.9' NAVD  | 22.1' NAVD  | 20.8' NAVD  | 21.3' NAVD  | 21.6' NAVD  | 21.2' NAVD          | 20.5' NAVD          | 22.0' NAVD  |
| MINIMUM CALCULATED FINISHED FLOOR ELEVATION | 24.8' NAVD  | 24.4' NAVD  | 25.5' NAVD  | 23.3' NAVD  | 23.0' NAVD  | 23.0' NAVD  | 22.2' NAVD  | 20.8' NAVD  | 23.6' NAVD  | 23.6' NAVD  | -                   | -                   | -           |
| MINIMUM PROPOSED FINISHED FLOOR ELEVATION   | 26.5' NAVD  | 25.0' NAVD  | 25.8' NAVD  | 24.0' NAVD  | 24.0' NAVD  | 23.5' NAVD  | 22.7' NAVD  | 21.8' NAVD  | 23.3' NAVD  | 23.3' NAVD  | -                   | -                   | -           |
| Last Updated 12/19/2018                     |             |             |             |             |             |             |             |             |             |             |                     |                     |             |

| REQUIRED WATER QUALITY SUMMARY |                    |                                |
|--------------------------------|--------------------|--------------------------------|
| BASIN NAME                     | BASIN AREA (ACRES) | WATER QUALITY REQUIRED (AC-FT) |
| BASIN A                        | 19.4               | 2.62                           |
| BASIN B                        | 64.6               | 8.02                           |
| BASIN C                        | 100.67             | 12.58                          |
| BASIN D                        | 59.27              | 7.59                           |
| BASIN E                        | 62.42              | 5.68                           |
| BASIN F                        | 68.12              | 8.41                           |
| BASIN G                        | 106.81             | 13.35                          |
| BASIN H                        | 67.21              | 8.71                           |
| WILDBLUE LAKE NORTH            | 579.16             | -                              |
| WILDBLUE LAKE SOUTH            | 92.87              | -                              |
| BLUE LAKE                      | 402.36             | 50.37                          |
| TOTAL WATER QUALITY REQUIRED = | 117.33 AC-FT       |                                |

- NOTES:
- WATER QUALITY REQUIREMENTS FOR BASINS I AND J INCLUDED WITHIN BLUE LAKE AREA.
  - WATER QUALITY NOT REQUIRED FOR EXISTING LAKE AND BANK AREAS OF WILDBLUE LAKES NORTH AND SOUTH.
  - BASINS A, H, AND BLUE LAKE INCLUDED COMPENSATORY WATER QUALITY REQUIREMENTS FOR OFF-SITE PAVEMENT. (SEE COMPENSATORY WATER QUALITY SUMMARY)

| COMPENSATORY WATER QUALITY SUMMARY |                   |                                  |
|------------------------------------|-------------------|----------------------------------|
| BASIN NAME                         | OFF-SITE PAVEMENT | COMPENSATORY WQ REQUIRED (AC-FT) |
| BASIN A                            | 0.61              | 0.13                             |
| BASIN H                            | 1.00              | 0.21                             |
| BLUE LAKE                          | 0.23              | 0.05                             |
| TOTAL WATER QUALITY REQUIRED =     | 0.38 AC-FT        |                                  |

| PEAK ALLOWABLE DISCHARGE SUMMARY |                    |                                     |                                 |
|----------------------------------|--------------------|-------------------------------------|---------------------------------|
| BASIN NAME                       | BASIN AREA (ACRES) | ALLOWABLE DISCHARGE RATE (CFS/ACRE) | TOTAL ALLOWABLE DISCHARGE (CFS) |
| BASIN A                          | 19.4               | 0.066                               | 1.27                            |
| BASIN B                          | 64.6               | 0.066                               | 4.24                            |
| BASIN C                          | 100.67             | 0.066                               | 6.61                            |
| BASIN D                          | 59.27              | 0.066                               | 3.89                            |
| BASIN E                          | 62.42              | 0.066                               | 4.10                            |
| BASIN F                          | 68.12              | 0.066                               | 4.47                            |
| BASIN G                          | 106.81             | 0.066                               | 7.01                            |
| BASIN H                          | 67.21              | 0.066                               | 4.41                            |
| BASIN I                          | 65.38              | 0.066                               | 4.29                            |
| BASIN J                          | 105.33             | 0.066                               | 6.91                            |
| WILDBLUE LAKE NORTH              | 579.16             | 0.066                               | 38.01                           |
| WILDBLUE LAKE SOUTH              | 92.87              | 0.066                               | 6.09                            |
| BLUE LAKE                        | 231.65             | 0.066                               | 15.20                           |
| TOTAL PEAK ALLOWABLE DISCHARGE = | 106.50 CFS         |                                     |                                 |

| PROVIDED WATER QUALITY SUMMARY |                                |
|--------------------------------|--------------------------------|
| BASIN NAME                     | WATER QUALITY PROVIDED (AC-FT) |
| BASIN A                        | 2.88                           |
| BASIN B                        | 9.35                           |
| BASIN C                        | 13.61                          |
| BASIN D                        | 8.23                           |
| BASIN E                        | 5.70                           |
| BASIN F                        | 9.01                           |
| BASIN G                        | 13.89                          |
| BASIN H                        | 9.02                           |
| BLUE LAKE                      | 68.15                          |
| TOTAL WATER QUALITY PROVIDED = | 139.85 AC-FT                   |

| PEAK MODELED DISCHARGE SUMMARY |                      |
|--------------------------------|----------------------|
| CONTROL STRUCTURE              | PEAK DISCHARGE (CFS) |
| CS-A-1                         | 1.33                 |
| CS-B-1 & CS-B-2                | 4.24                 |
| CS-C-1 & CS-C-2                | 6.47                 |
| CS-D-1 & CS-D-2                | 3.82                 |
| CS-F-1- & CS-F-2               | 4.38                 |
| CS-G-1 & CS-G-2                | 6.98                 |
| CS-H-1 & CS-H-2                | 4.53                 |
| CS-WBLN-1 & CS-WBLN-2          | 41.89                |
| CS-WBLS-1 & CS-WBLS-2          | 6.04                 |
| CS-BL-1, CS-BL-2, & CS-BL-3    | 26.66                |
| TOTAL PEAK DISCHARGE =         | 106.34 CFS           |

- GENERAL DRAINAGE NOTES:
- THE LENGTH OF STORM DRAIN PIPES SHOWN ON PLANS ARE APPROXIMATE AND HAVE BEEN MEASURED FROM THE INSIDE FACE OF STRUCTURE.
  - LOCATIONS OF DRAINAGE STRUCTURES MAY BE FIELD ADJUSTED TO PRESERVE EXISTING VEGETATION AS APPROVED BY THE ENGINEER.
  - THE CONTRACTOR IS REQUIRED TO ADJUST ALL EXISTING AND PROPOSED VALVE BOXES, MANHOLE RIMS, GRATES, ETC. AS REQUIRED TO MATCH PROPOSED GRADES.
  - ALL UNPAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED AND MULCHED UNLESS NOTED OTHERWISE. WATERING WILL BE REQUIRED TO OBTAIN STABILIZATION / GROWTH AND TO PROVIDE DUST CONTROL.
  - EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED DURING CONSTRUCTION.
  - SWALE PROFILES SHOWN ARE TO TOP OF SOD. CONTRACTOR TO ADJUST SWALE GRADING ACCORDINGLY.
  - SOD A 24" STRIP BEHIND ALL CONCRETE CURB AND VALLEY GUTTER AND AT EDGE OF PAVEMENT. REMAINING AREAS WITHIN THE DISTURBED AREA SHALL BE SEEDED, FERTILIZED AND MULCHED.
  - THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL ENCOUNTERED FROM FILL AREAS PRIOR TO PLACEMENT OF FILL. ALL UNSUITABLE MATERIAL EXCAVATED SHALL BE STOCKPILED OR REMOVED AS DIRECTED BY OWNER.
  - THE TOP OF ALL ENDWALLS SHALL BE NO HIGHER THAN 30" BELOW THE LAKE CONTROL ELEVATION. THE CONTRACTOR SHALL REVIEW PROPOSED STRUCTURE LOCATIONS WITH THE ENGINEER AFTER STAKEOUT AND BEFORE COMMENCING CONSTRUCTION. ALL DRAINAGE STRUCTURES TO BE LOCATED ON THE LAKE BANK SHALL BE FIELD ADJUSTED SO AS TO INSET THE STRUCTURE, TO THE GREATEST EXTENT POSSIBLE, IN THE LAKE BANK.
  - YARD DRAINS SHALL BE ADDED IN GREEN AND OPEN SPACE AREAS AS NECESSARY AT THE DIRECTION OF THE LANDSCAPE ARCHITECT OR ENGINEER.
  - ALL REAR YARD DRAINAGE TO BE CONSIDERED SECONDARY DRAINAGE, UNLESS OTHERWISE INSTRUCTED BY OWNER.
  - MASTER PROPERTY OWNER'S ASSOCIATION SHALL BE RESPONSIBLE FOR OPERATION AND MAINTENANCE OF STORM WATER MANAGEMENT SYSTEM.

Barraco

and Associates, Inc.

CIVIL ENGINEERING - LAND SURVEYING  
LAND PLANNING

[www.barraco.net](http://www.barraco.net)

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FLORIDA CERTIFICATES OF AUTHORIZATION  
ENGINEERING 7995 - SURVEYING LB-6940

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WWW.PULTEHOMES.COM

PROJECT DESCRIPTION

WildBlue

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

TIMOTHY B. GAVIN, P.E., FOR THE FIRM  
FLORIDA P.E. NO. 70675 - TIMG@BARRACO.NET

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FILE NAME J:\23473\DWG\ERP1  
LOCATION J:\23473\DWG\ERP1  
PLOT DATE WED. 12-19-2018 - 2:19 PM  
PLOT BY TIM GAVIN

CROSS REFERENCED DRAWINGS

PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS  
NOT FOR CONSTRUCTION

GENERAL NOTES  
AND  
TABLES

PROJECT / FILE NO. 23473  
SHEET NUMBER 6.0

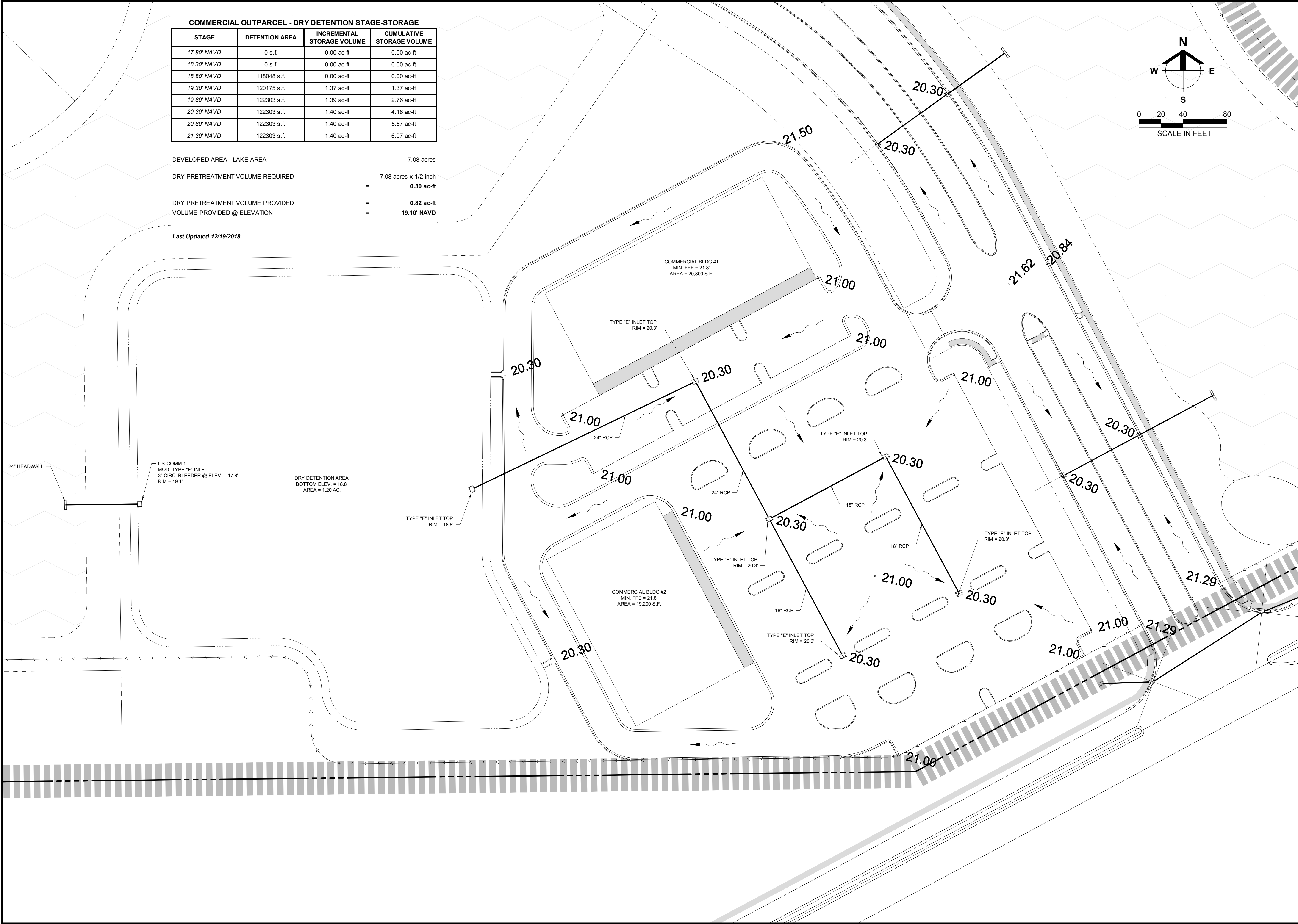
Exhibit No. 2.0

Application No. 181221-2

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| COMMERCIAL OUTPARCEL - DRY DETENTION STAGE-STORAGE |                |                            |                           |
|--|----------------|----------------------------|---------------------------|
| STAGE  | DETENTION AREA | INCREMENTAL STORAGE VOLUME | CUMULATIVE STORAGE VOLUME |
| 17.80' NAVD  | 0 s.f.         | 0.00 ac-ft                 | 0.00 ac-ft                |
| 18.30' NAVD  | 0 s.f.         | 0.00 ac-ft                 | 0.00 ac-ft                |
| 18.80' NAVD  | 118048 s.f.    | 0.00 ac-ft                 | 0.00 ac-ft                |
| 19.30' NAVD  | 120175 s.f.    | 1.37 ac-ft                 | 1.37 ac-ft                |
| 19.80' NAVD  | 122303 s.f.    | 1.39 ac-ft                 | 2.76 ac-ft                |
| 20.30' NAVD  | 122303 s.f.    | 1.40 ac-ft                 | 4.16 ac-ft                |
| 20.80' NAVD  | 122303 s.f.    | 1.40 ac-ft                 | 5.57 ac-ft                |
| 21.30' NAVD  | 122303 s.f.    | 1.40 ac-ft                 | 6.97 ac-ft                |

DEVELOPED AREA - LAKE AREA = 7.08 acres

DRY PRETREATMENT VOLUME REQUIRED = 7.08 acres x 1/2 inch = 0.30 ac-ft

DRY PRETREATMENT VOLUME PROVIDED = 0.82 ac-ft

VOLUME PROVIDED @ ELEVATION = 19.10' NAVD

Last Updated 12/19/2018

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LAND PLANNING  
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FORT MYERS, FLORIDA 33902-2800  
PHONE (239) 461-3170  
FAX (239) 461-3169  
FLORIDA CERTIFICATES OF AUTHORIZATION  
ENGINEERING 7995 - SURVEYING LB-6940

PREPARED FOR  
  
PULTE HOME CORPORATION  
24311 WALDEN CENTER DRIVE  
SUITE 300  
BONITA SPRINGS, FLORIDA 34134  
PHONE (239) 498-7711  
FAX (239) 498-7707  
[WWW.PULTEHOMES.COM](http://WWW.PULTEHOMES.COM)

PROJECT DESCRIPTION  
  
LEE COUNTY, FLORIDA

ENGINEER OF RECORD  
TIMOTHY B. GAVIN, P.E., FOR THE FIRM  
FLORIDA P.E. NO. 70675 - TIMG@BARRACO.NET

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FILE NAME: 23473E15.DWG  
LOCATION: J:\23473\DWG\ERP\1  
PLOT DATE: WED. 12-19-2018 - 2:20 PM  
PLOT BY: TIM GAVIN

CROSS REFERENCED DRAWINGS

PLAN REVISIONS

PLAN STATUS  
APPROVAL SUBMITTALS PLANS  
NOT FOR CONSTRUCTION

DETAILED  
COMMERCIAL  
DRAINAGE PLANS

PROJECT / FILE NO. 23473 SHEET NUMBER 7.18

PREPARED FOR

**LENNAR**

LENNAR HOMES  
10481 BEN C. PRATT / SIX MILE  
CYPRESS PARKWAY  
FORT MYERS, FLORIDA 33966

PHONE (239) 278-1177  
FAX (239) 931-4749

PROJECT DESCRIPTION

**WildBlue**

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

TIMOTHY B. GAVIN, P.E., FOR THE FIRM  
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FILE NAME: 23473E18.DWG

LOCATION: J:\23473\DWG\ERP\

PLOT DATE: WED. 12-19-2018 - 2:20 PM

PLOT BY: TIM GAVIN

CROSS REFERENCED DRAWINGS

PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS  
NOT FOR CONSTRUCTION

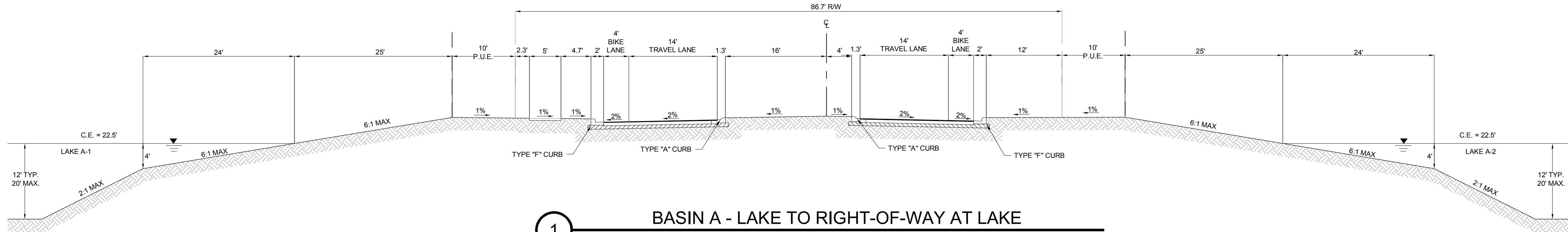
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PROJECT / FILE NO.

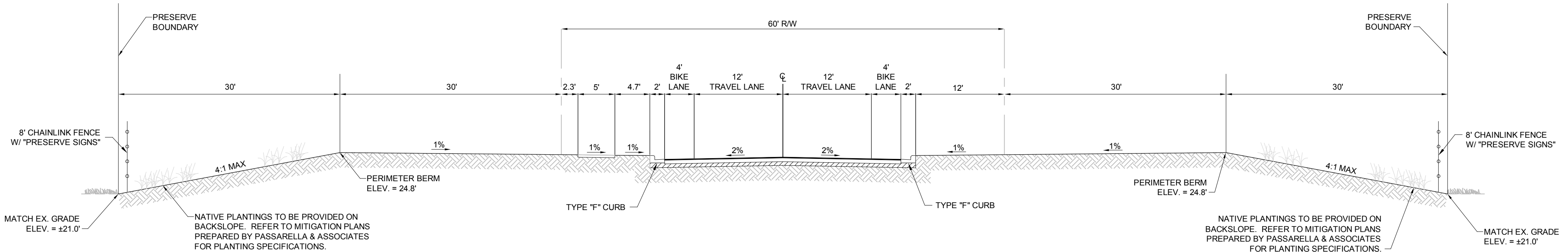
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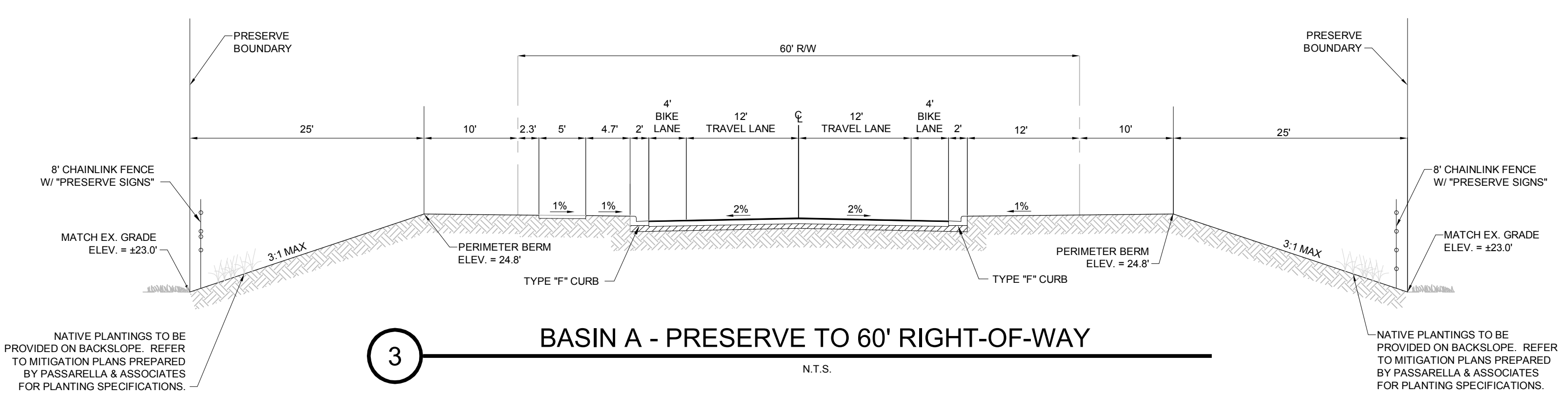
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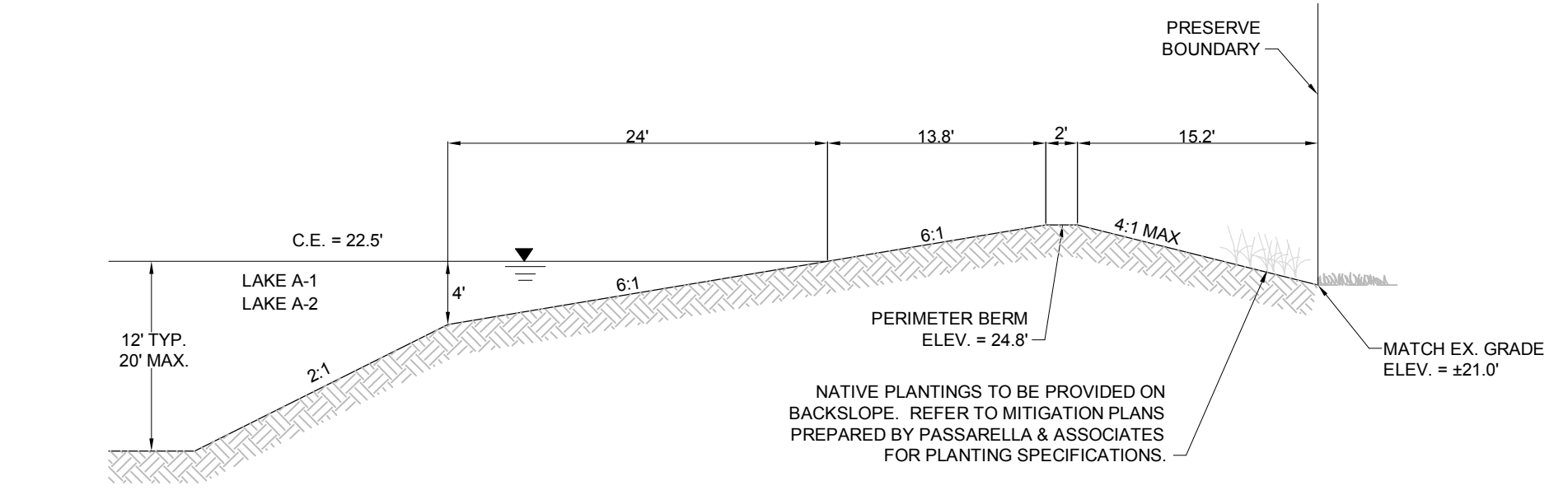
**BASIN A - LAKE TO RIGHT-OF-WAY AT LAKE**



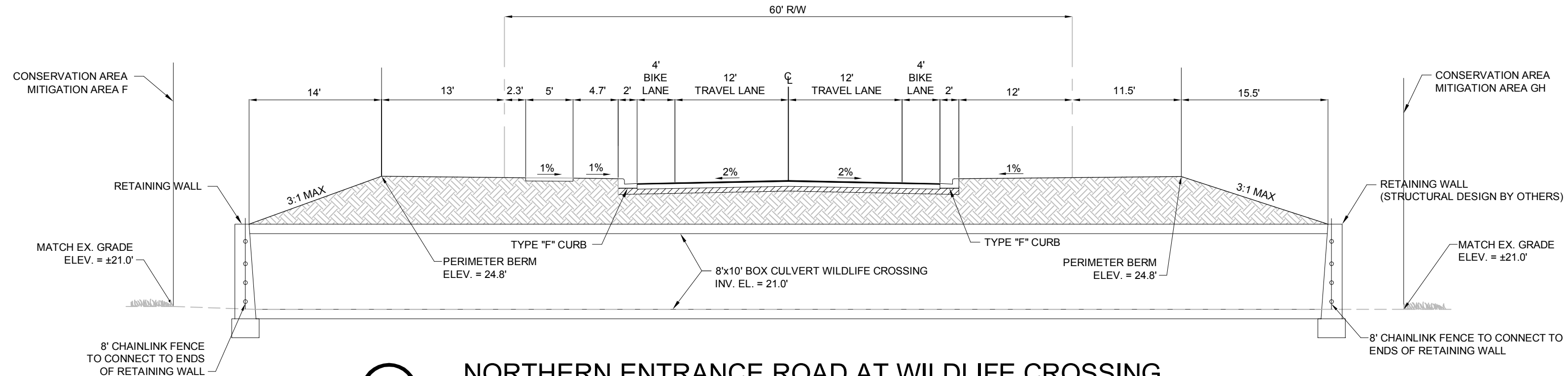
**BASIN A - PRESERVE TO 60' RIGHT-OF-WAY**



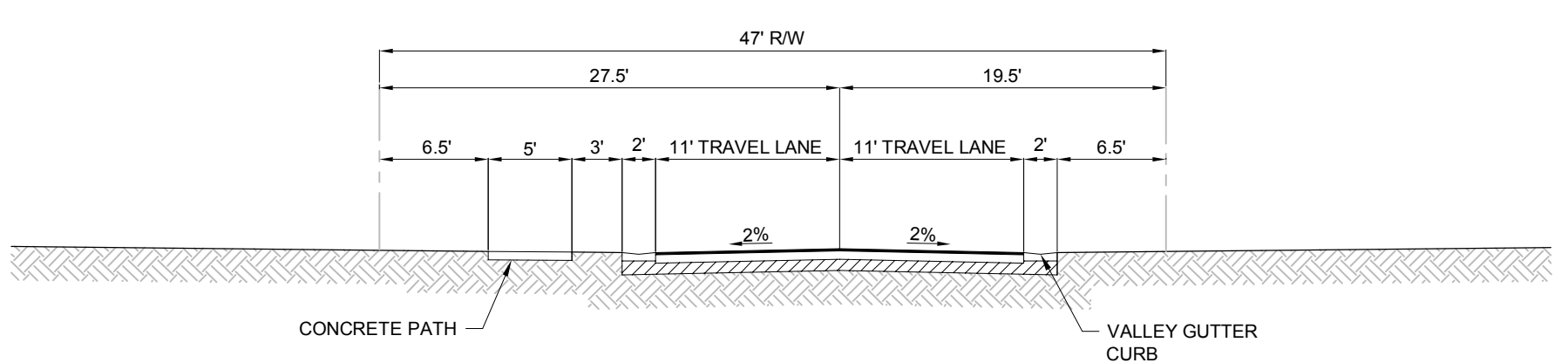
**BASIN A - PRESERVE TO 60' RIGHT-OF-WAY**



**BASIN A - LAKE TO PRESERVE**



**NORTHERN ENTRANCE ROAD AT WILDLIFE CROSSING**



**TYPICAL 47' RIGHT-OF-WAY**

PREPARED FOR

**LENNAR**

LENNAR HOMES  
10481 BEN C. PRATT / SIX MILE  
CYPRESS PARKWAY  
FORT MYERS, FLORIDA 33966

PHONE (239) 278-1177  
FAX (239) 931-4749

PROJECT DESCRIPTION

**WildBlue**

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

TIMOTHY B. GAVIN, P.E., FOR THE FIRM  
FLORIDA P.E. NO. 70675 - TIMG@BARRACO.NET

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LOCATION J:\23473D\DWG\ERP\

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PLOT BY TIM GAVIN

CROSS REFERENCED DRAWINGS

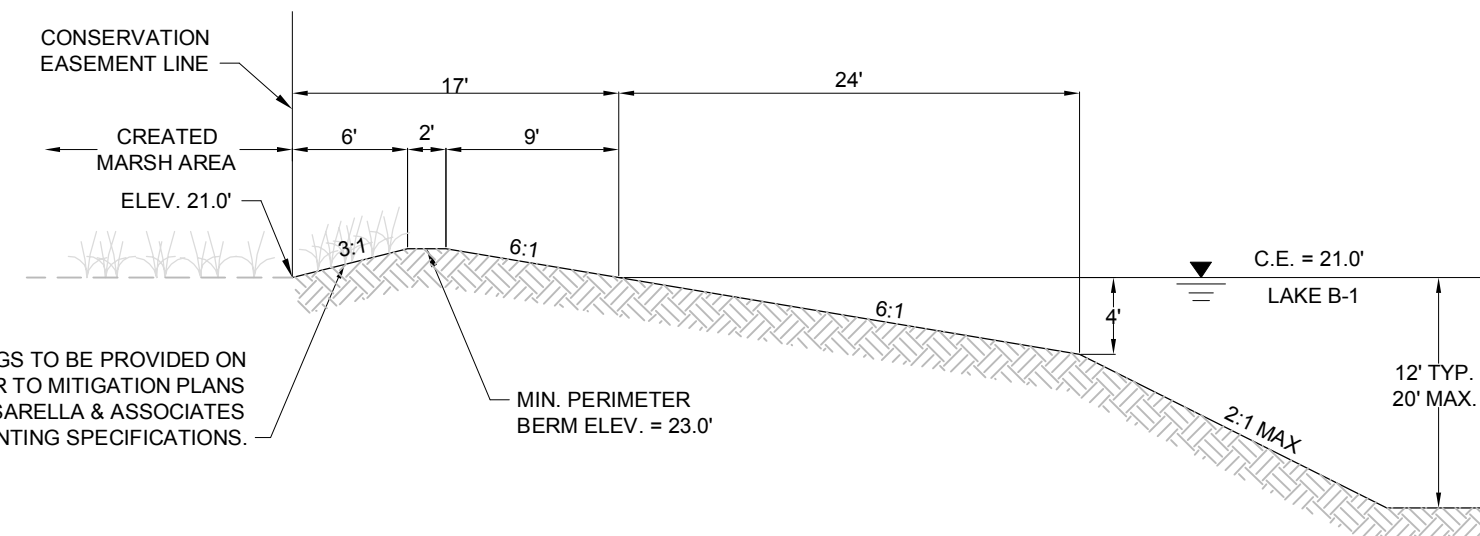
PLAN REVISIONS

PLAN STATUS

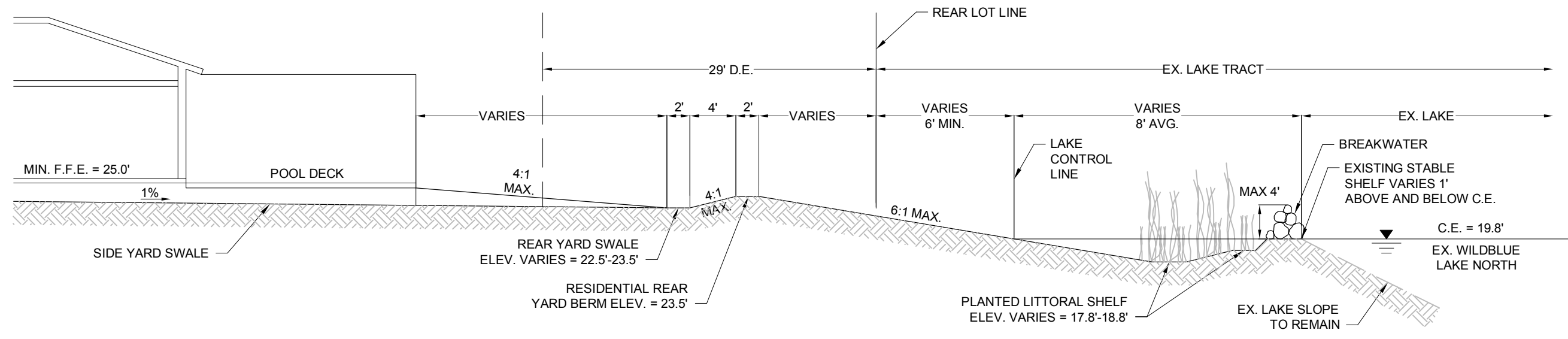
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NOT FOR CONSTRUCTION

TYPICAL SECTIONS

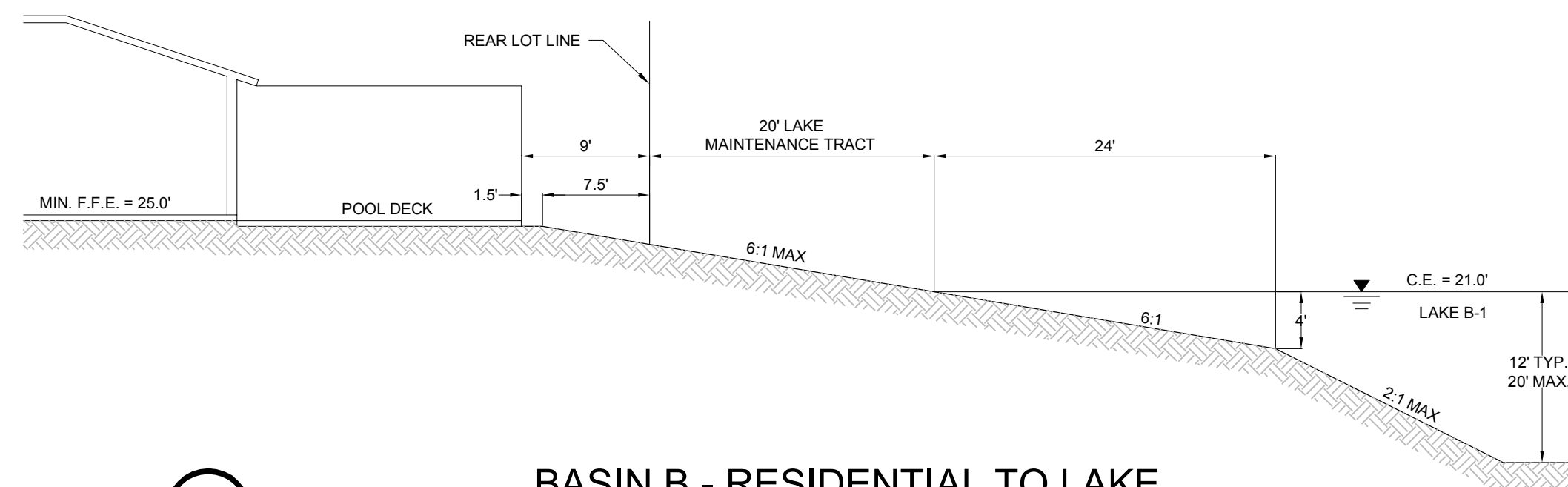
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| PROJECT / FILE NO. | SHEET NUMBER |
| <b>23473</b>       | <b>8.1</b>   |



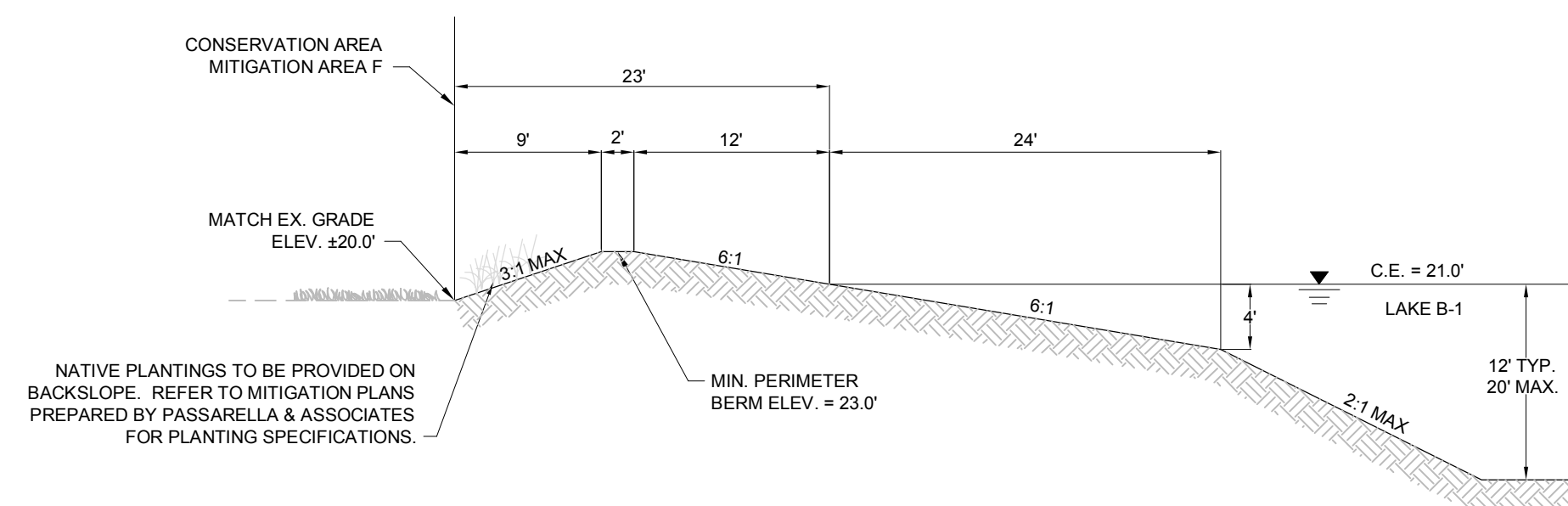
7 BASIN B - CREATED MARSH TO LAKE  
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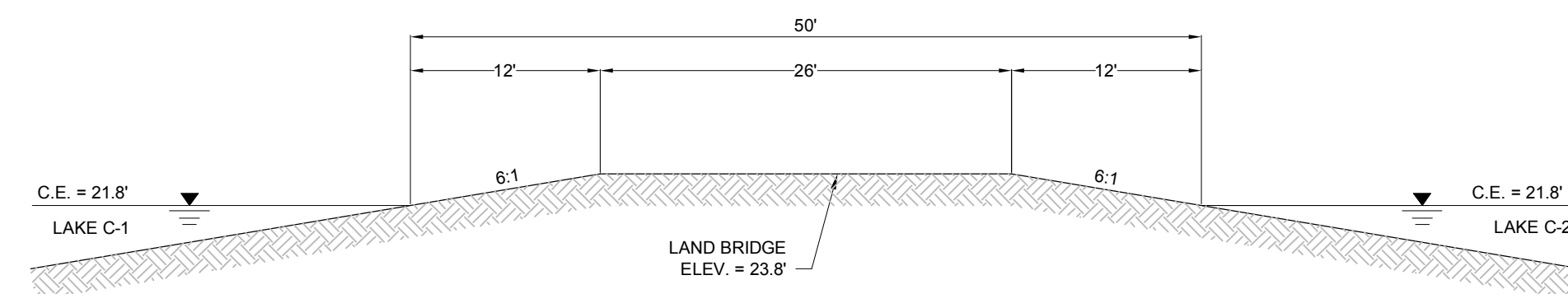
8 BASIN B - RESIDENTIAL TO EXISTING LAKE  
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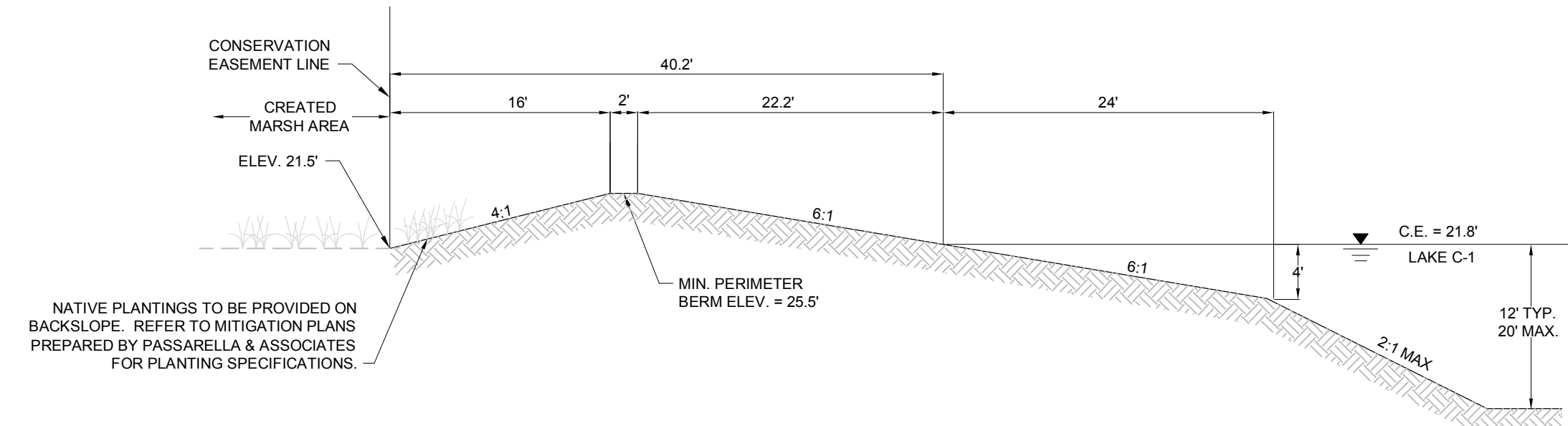
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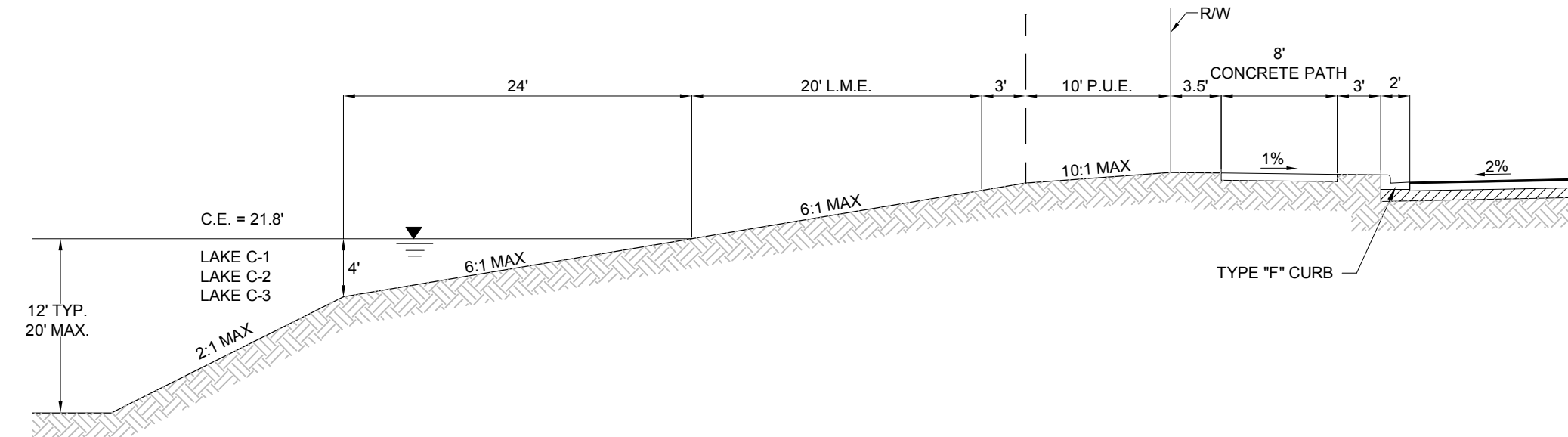
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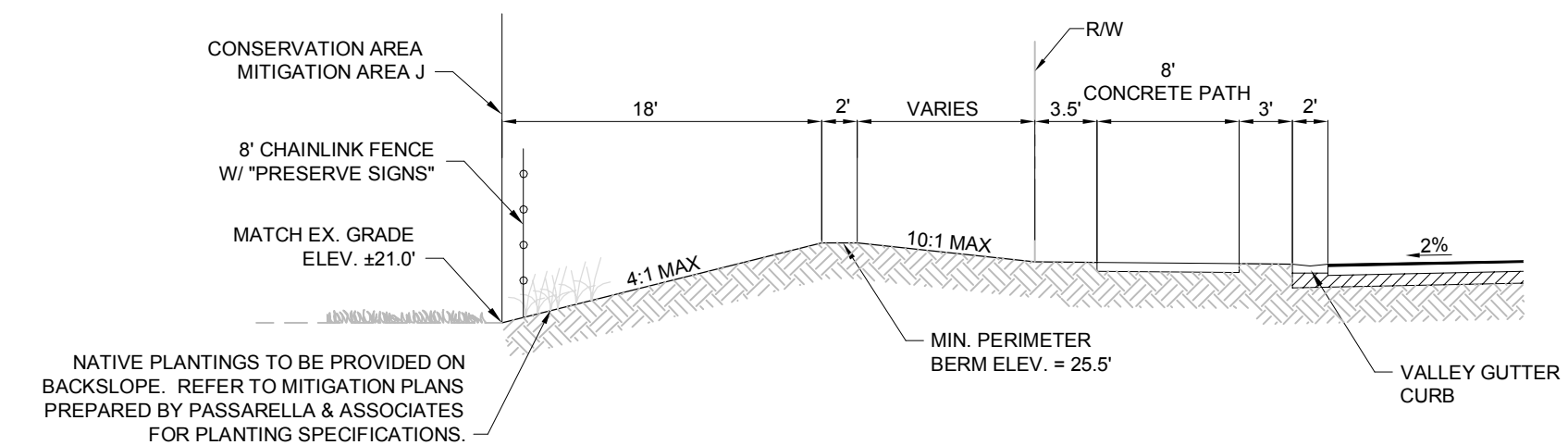
11 BASIN C - LAKE LAND BRIDGE  
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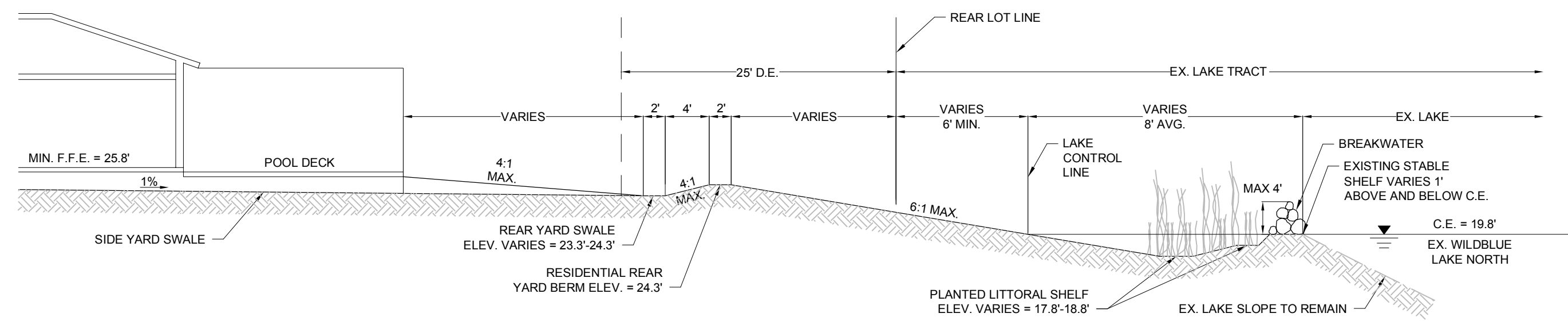
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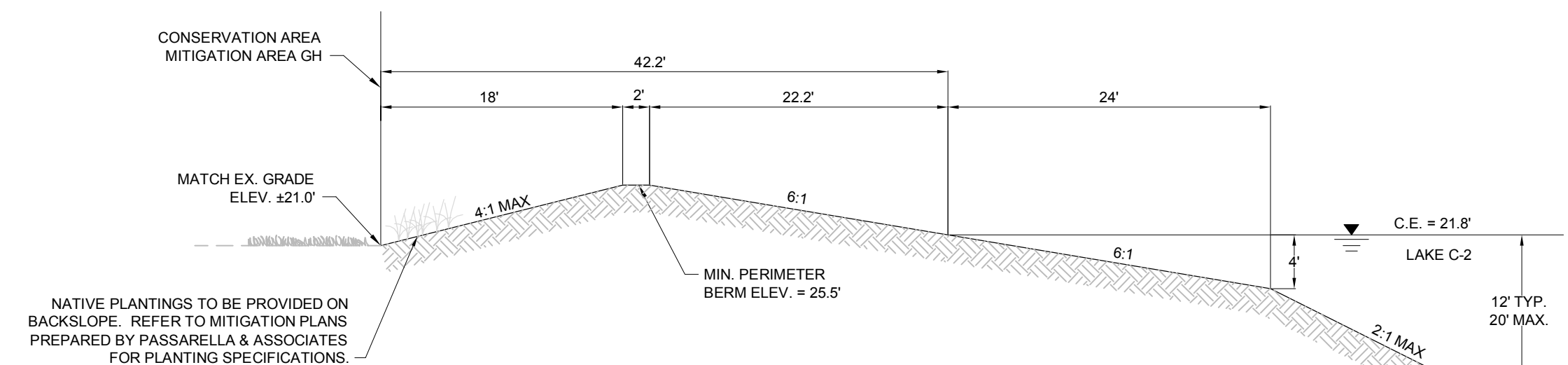
13 BASIN C - LAKE TO RIGHT-OF-WAY  
N.T.S.



14 BASIN C - PRESERVE TO 47' RIGHT-OF-WAY  
N.T.S.

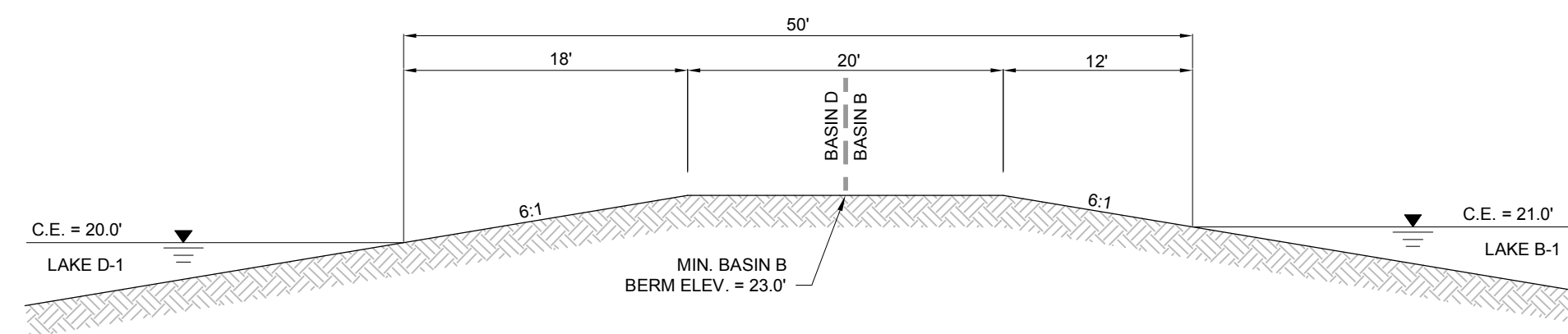


15 BASIN C - RESIDENTIAL TO EXISTING LAKE  
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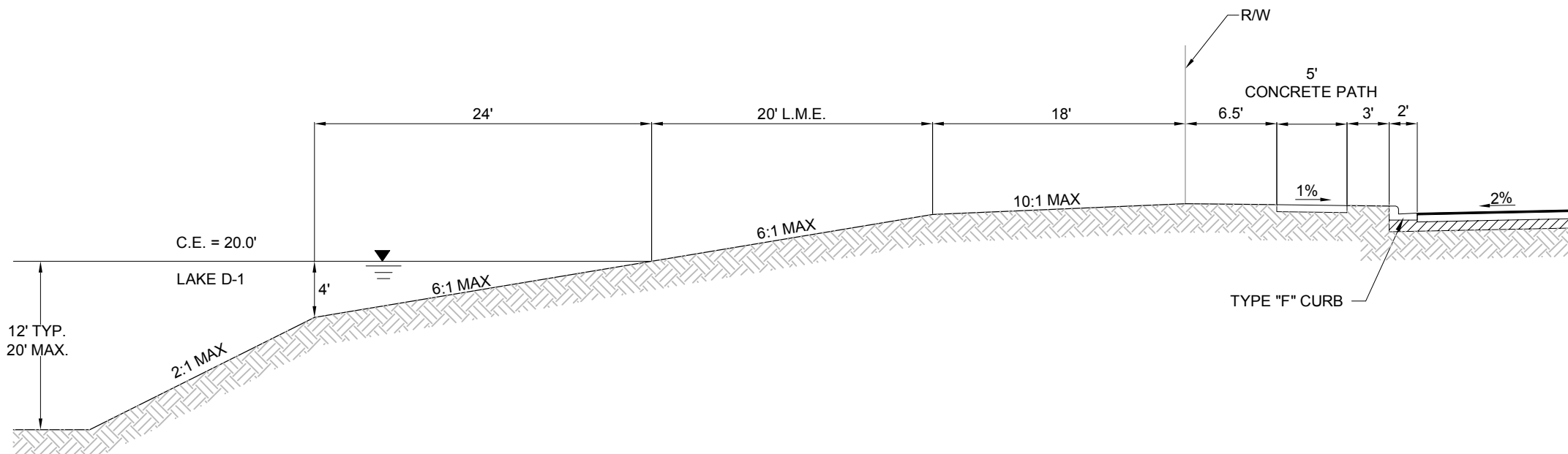


16 BASIN C - PRESERVE TO LAKE  
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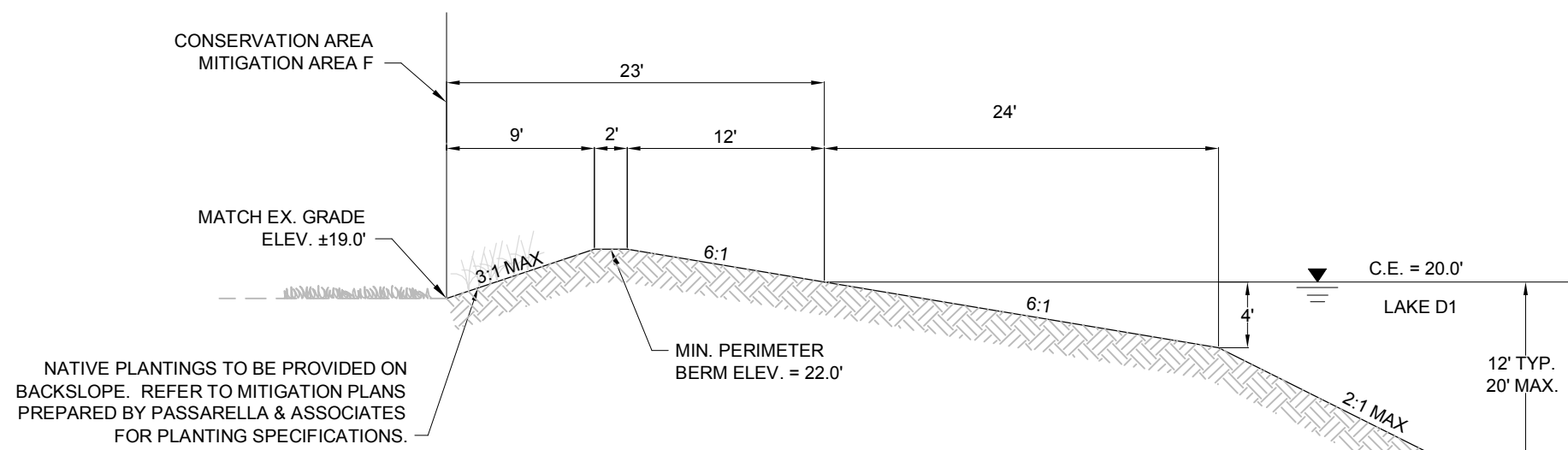




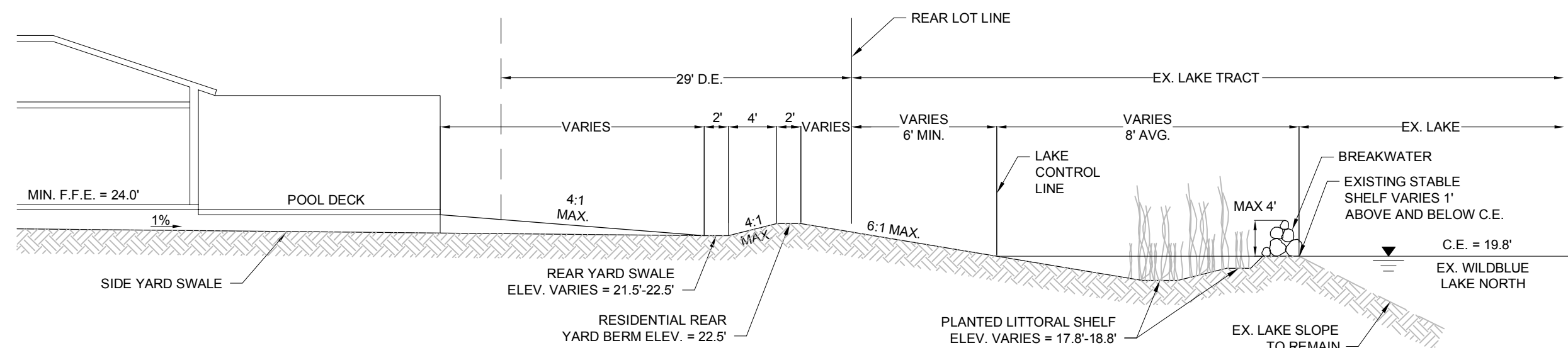
17 BASIN D LAKE TO BASIN B LAKE  
N.T.S.



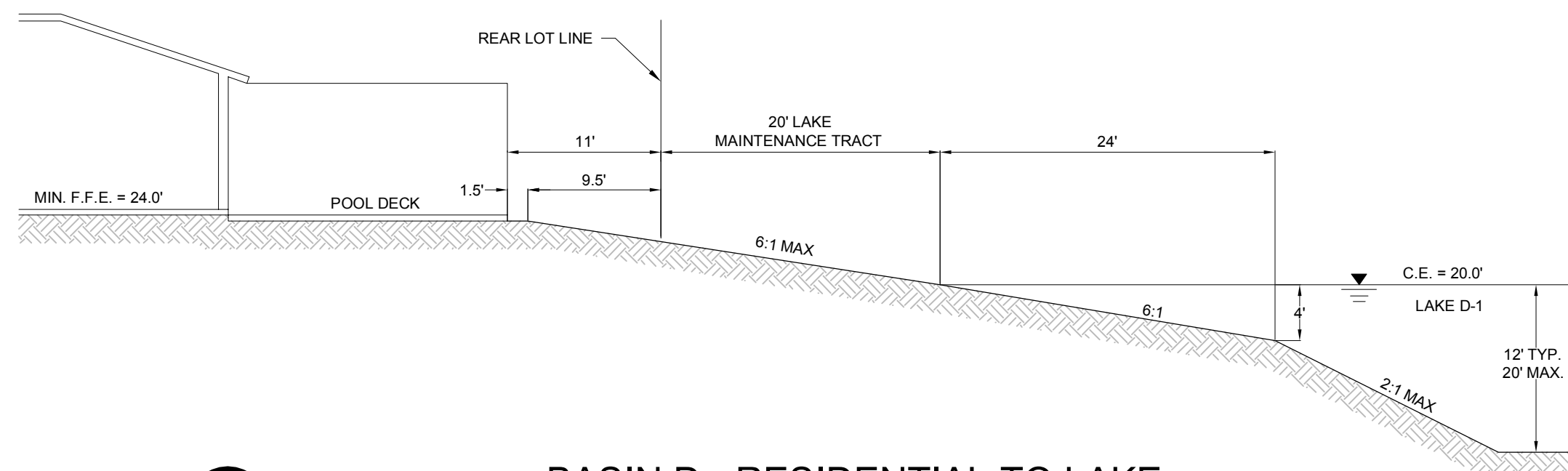
18 BASIN D - LAKE TO RIGHT-OF-WAY  
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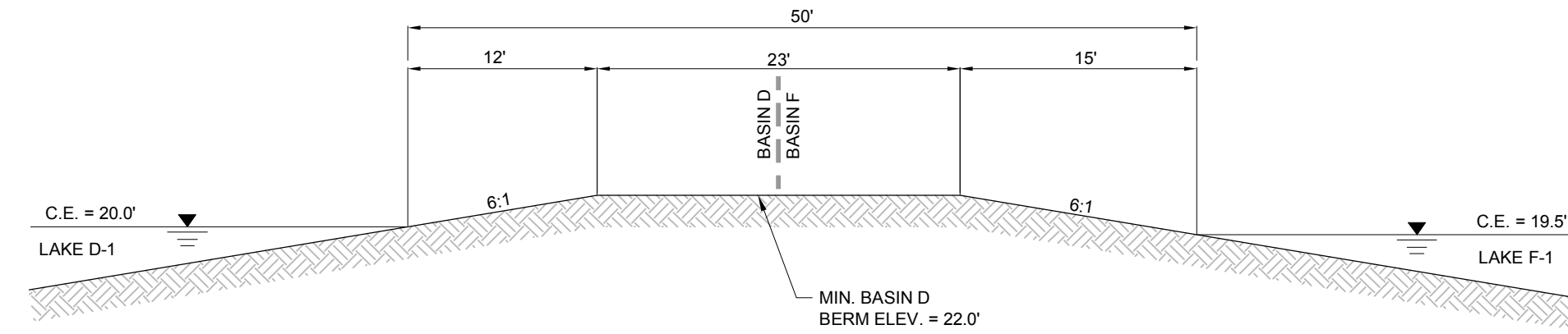
19 BASIN D - PRESERVE TO LAKE  
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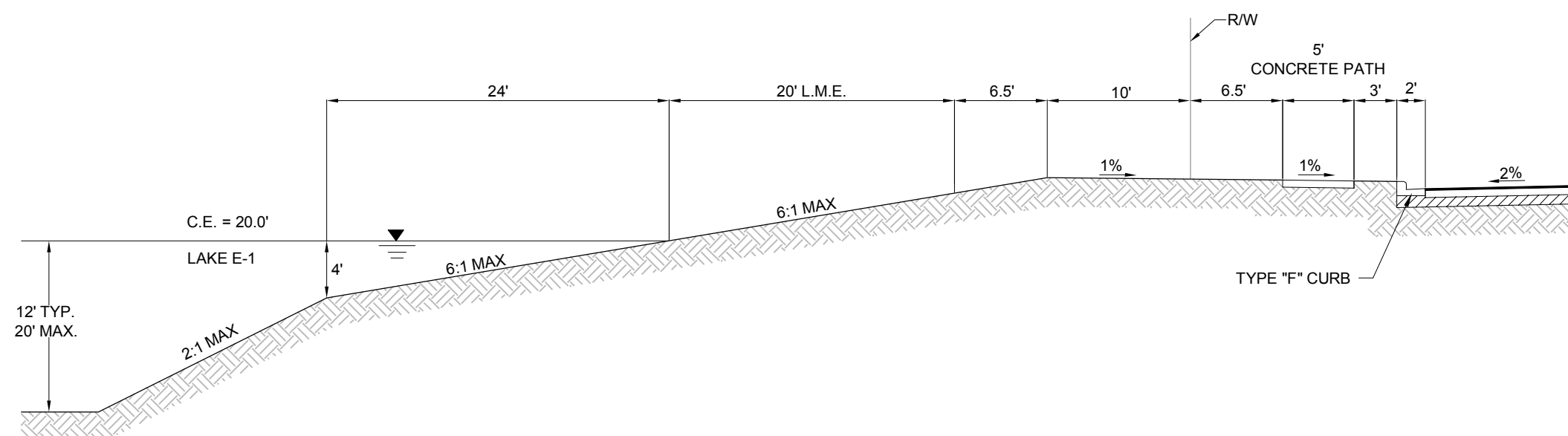
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N.T.S.



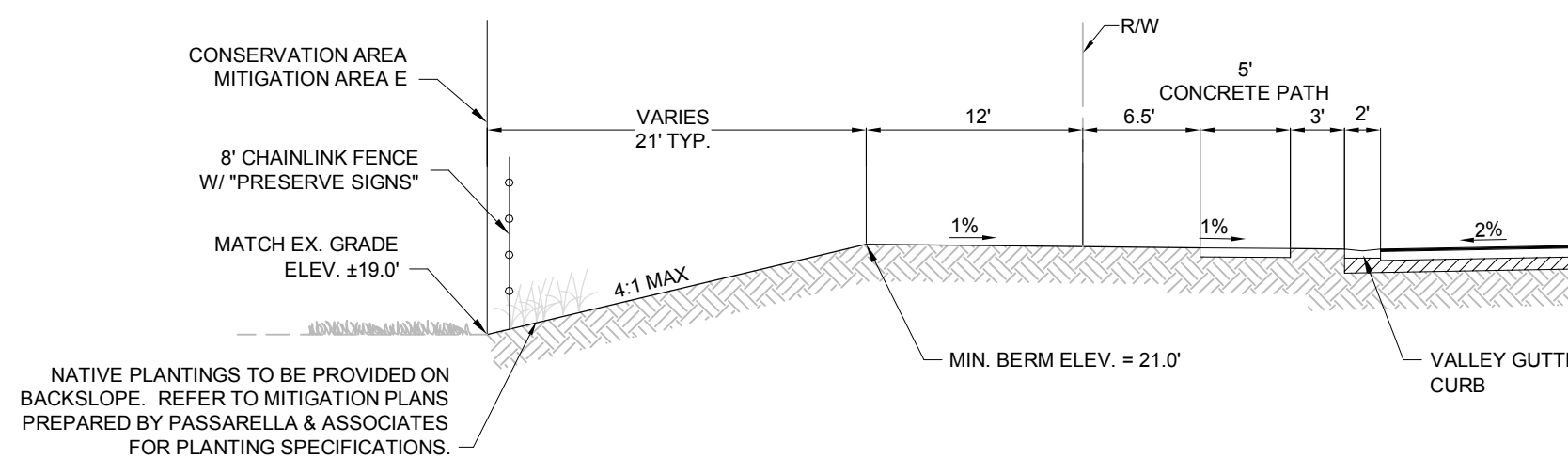
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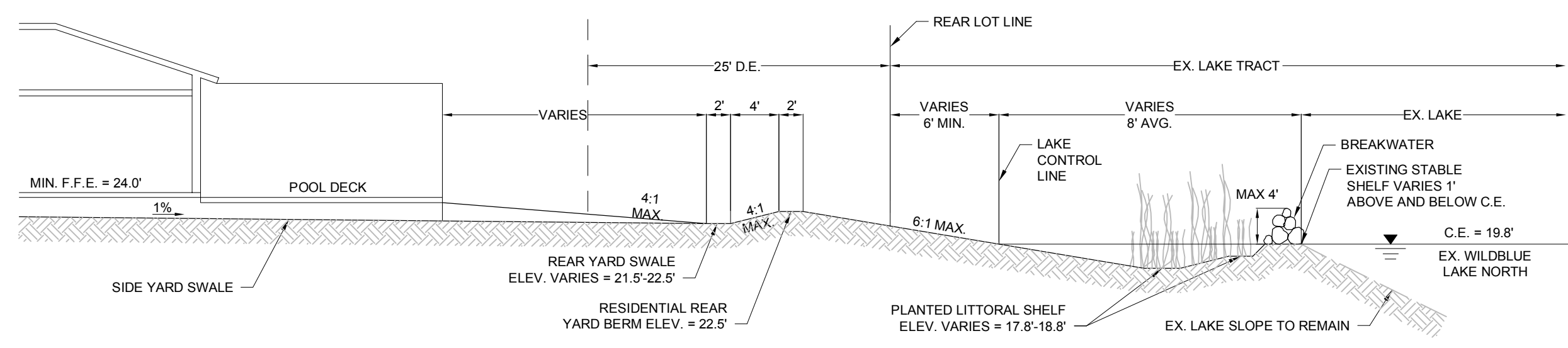
22 BASIN D LAKE TO BASIN F LAKE  
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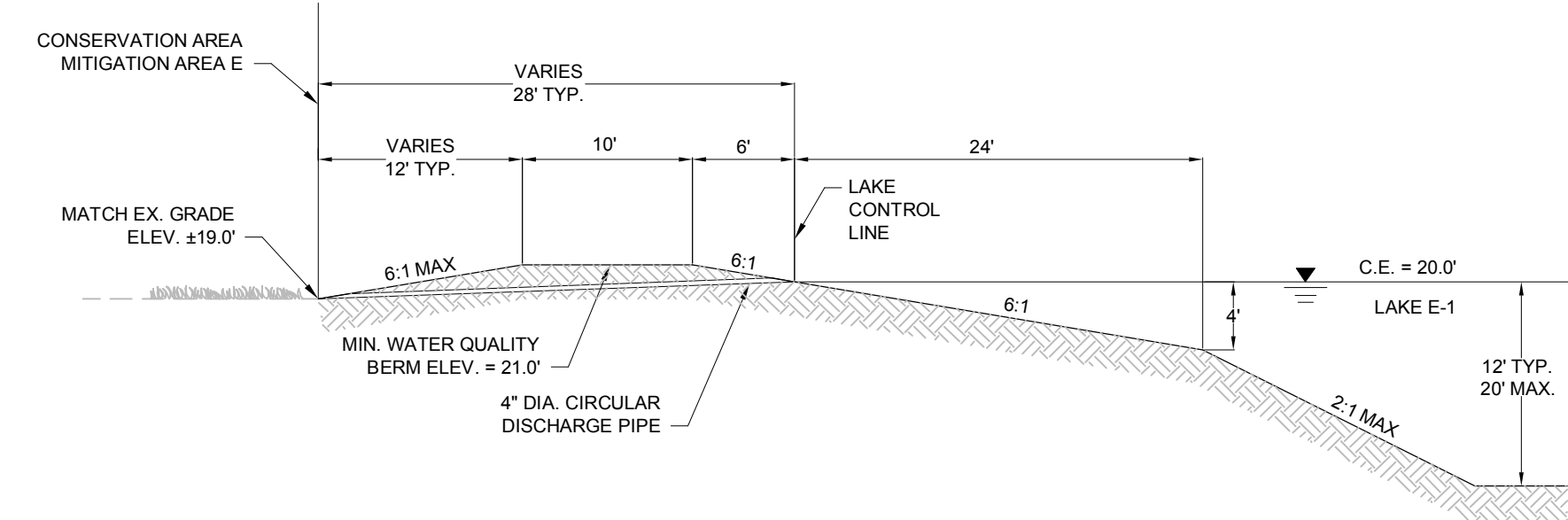
23 BASIN E - LAKE TO RIGHT-OF-WAY  
N.T.S.



24 BASIN E - PRESERVE TO 47' RIGHT-OF-WAY  
N.T.S.



25 BASIN E - RESIDENTIAL TO EXISTING LAKE  
N.T.S.



26 BASIN E - PRESERVE TO LAKE  
N.T.S.

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FLORIDA CERTIFICATES OF AUTHORIZATION

ENGINEERING 7995 - SURVEYING LB-6940

PREPARED FOR

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CYPRESS PARKWAY

FORT MYERS, FLORIDA 33966

PHONE (239) 278-1177

FAX (239) 931-4749

PROJECT DESCRIPTION

WildBlue

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

TIMOTHY B. GAVIN, P.E., FOR THE FIRM

FLORIDA P.E. NO. 70675 - TIMG@BARRACO.NET

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FILE NAME J:\23473\DWG\

LOCATION J:\23473\DWG\

PLOT DATE WED. 12-19-2018 - 2:20 PM

PLOT BY TIM GAVIN

CROSS REFERENCED DRAWINGS

PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS

NOT FOR CONSTRUCTION

TYPICAL SECTIONS

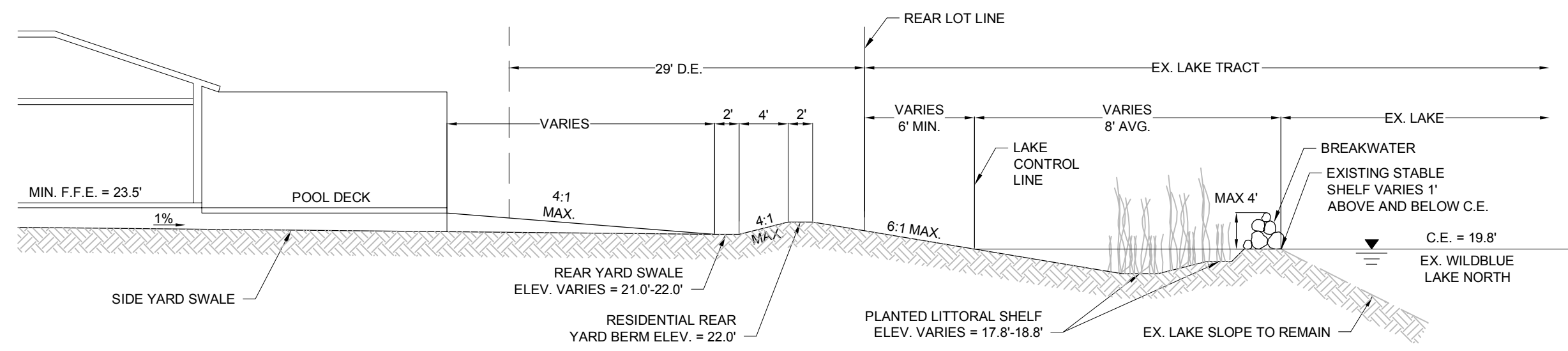
PROJECT / FILE NO.

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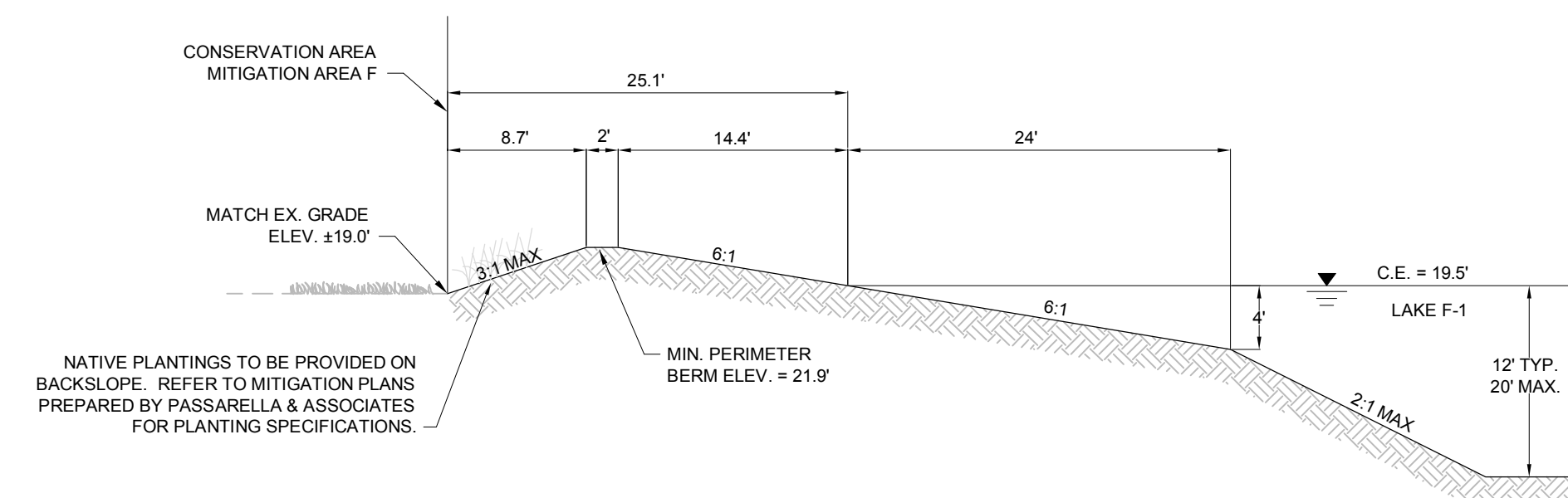
SHEET NUMBER

8.2

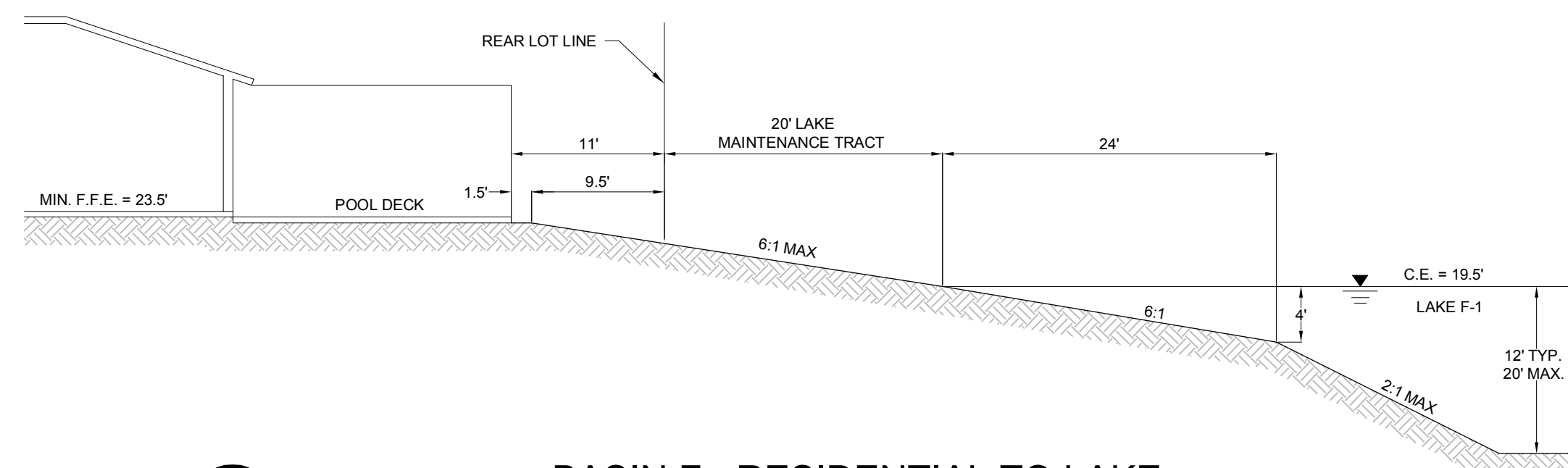




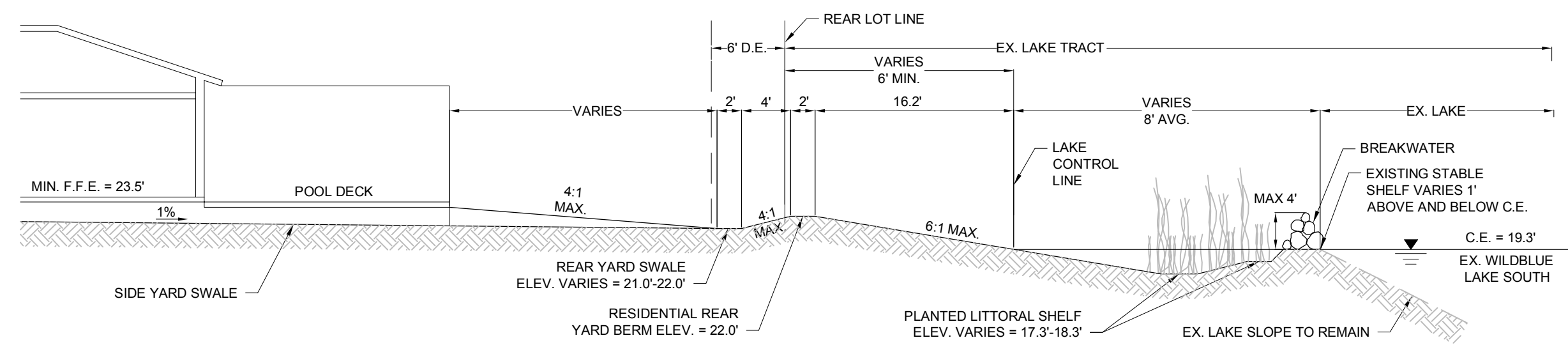
27 BASIN F - RESIDENTIAL TO EXISTING NORTH LAKE  
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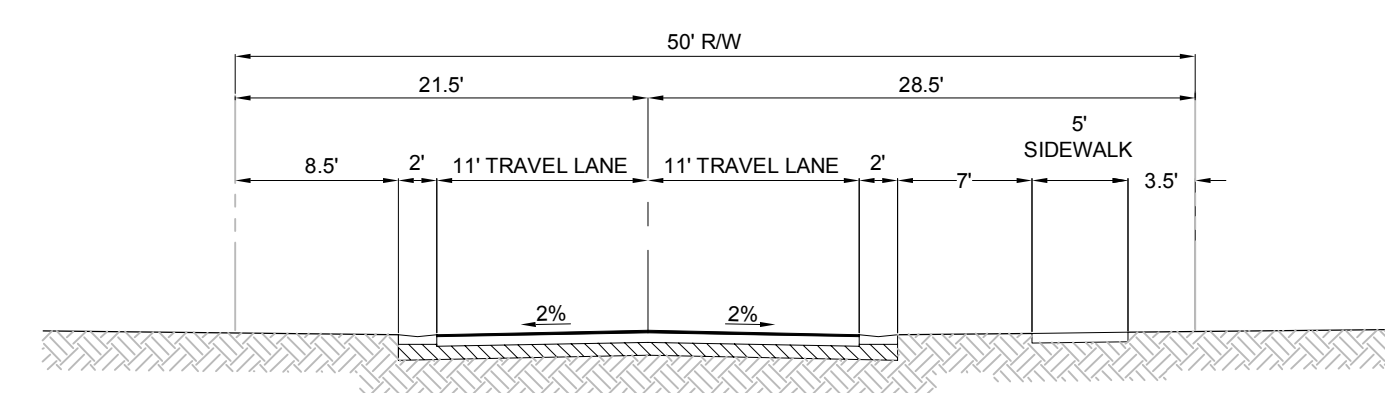
28 BASIN F - PRESERVE TO LAKE  
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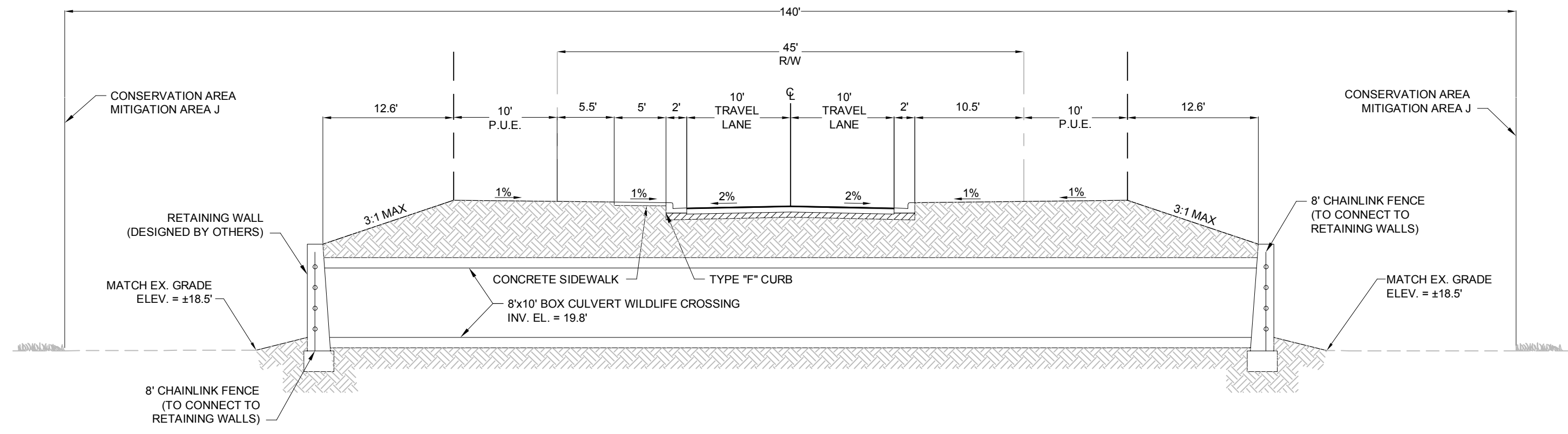
29 BASIN F - RESIDENTIAL TO LAKE  
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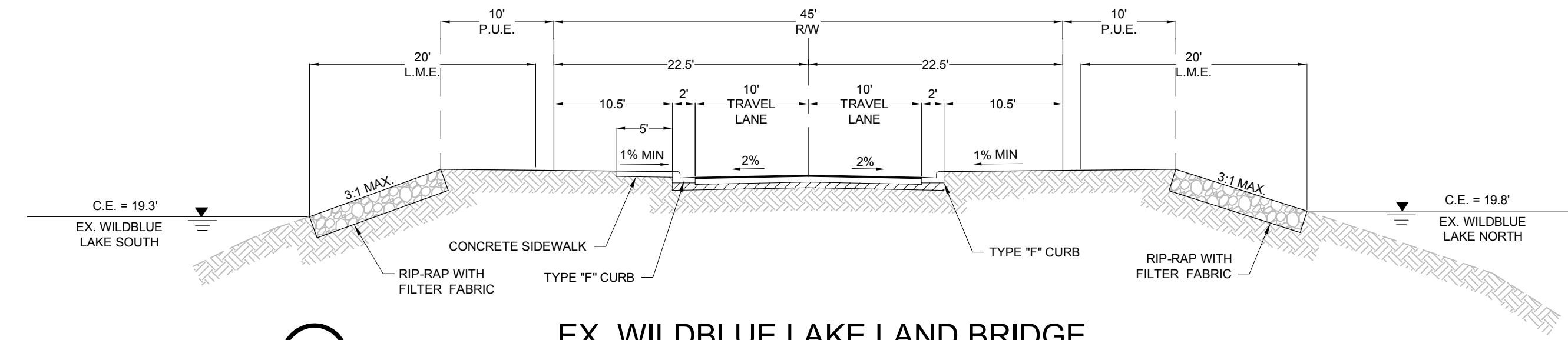
30 BASIN F - RESIDENTIAL TO EXISTING SOUTH LAKE  
N.T.S.



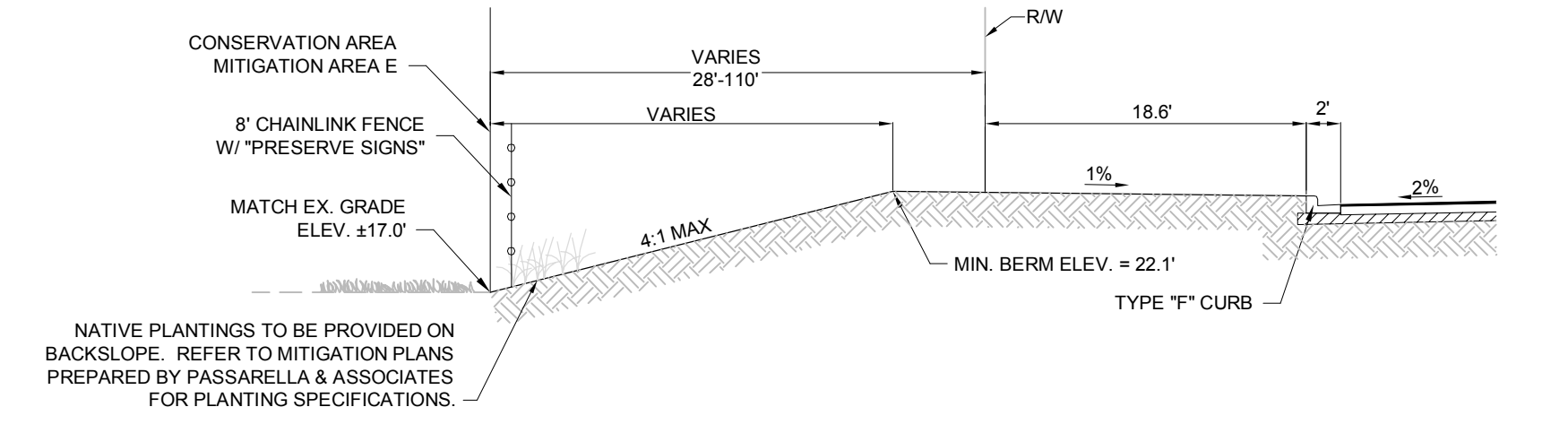
31 TYPICAL 50' RIGHT-OF-WAY  
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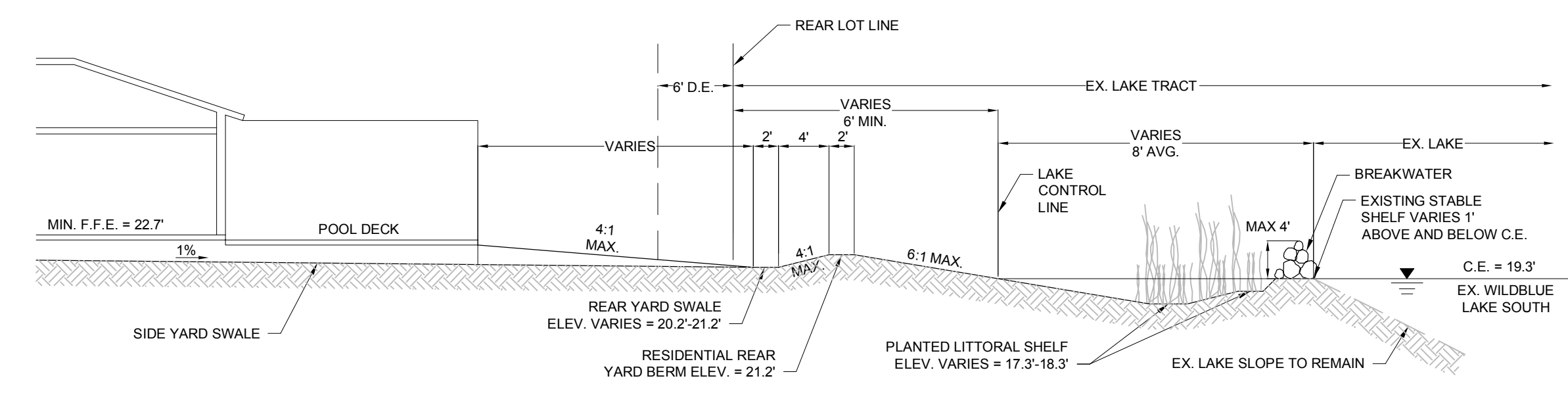
32 TYPICAL 45' RIGHT-OF-WAY AT WILDLIFE CROSSING  
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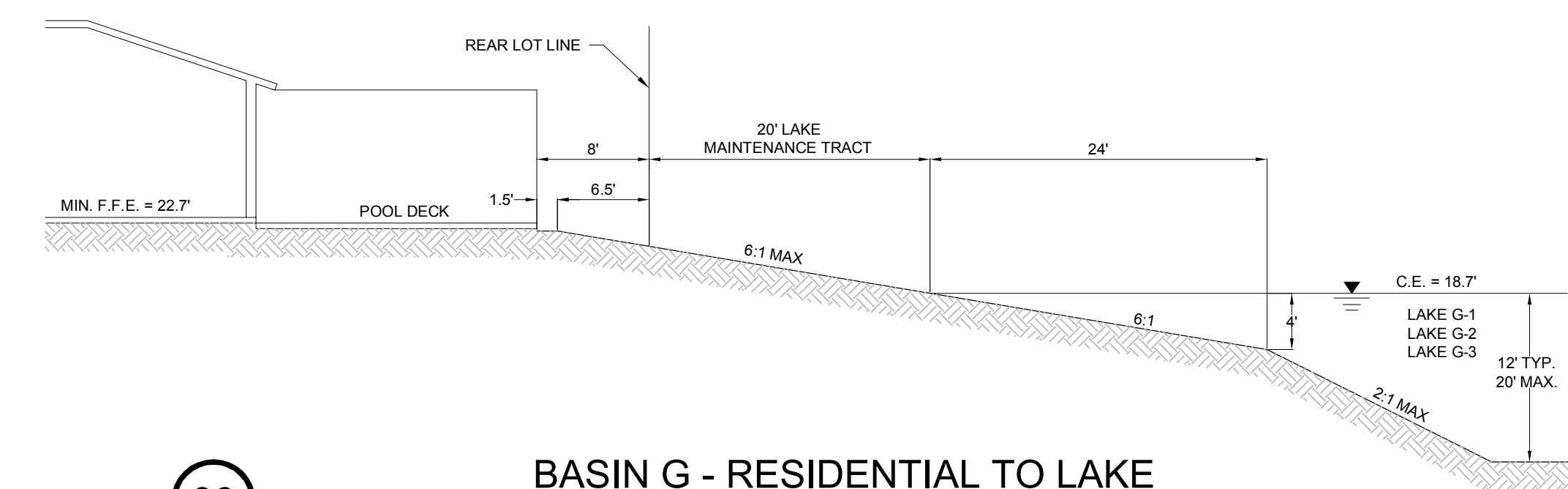
33 EX. WILDBLUE LAKE LAND BRIDGE  
N.T.S.



34 BASIN G - PRESERVE TO 100' RIGHT-OF-WAY  
N.T.S.



35 BASIN G - RESIDENTIAL TO EXISTING SOUTH LAKE  
N.T.S.



36 BASIN G - RESIDENTIAL TO LAKE  
N.T.S.

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PROJECT DESCRIPTION

WildBlue

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

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FLORIDA P.E. NO. 70675 - TIMG@BARRACO.NET

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FILE NAME

J:\23473\DWG\ERPI

LOCATION

WED. 12-19-2018 - 2:20 PM

PLOT DATE

TIM GAVIN

CROSS REFERENCED DRAWINGS

PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS

NOT FOR CONSTRUCTION

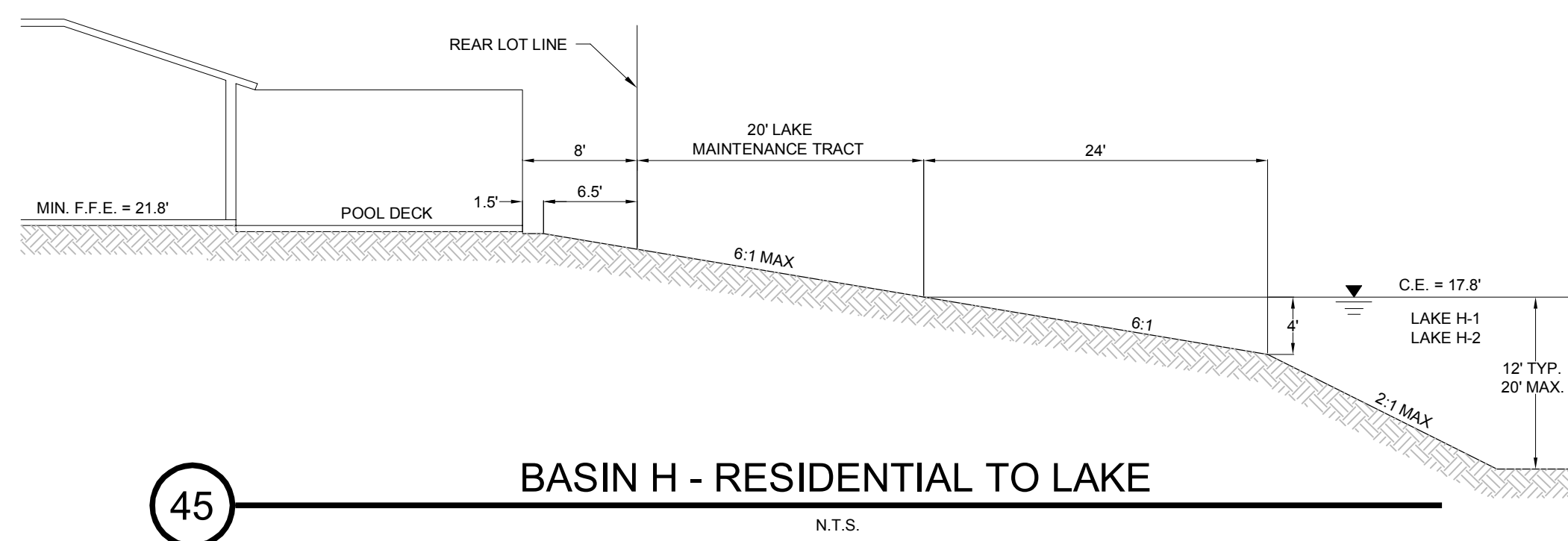
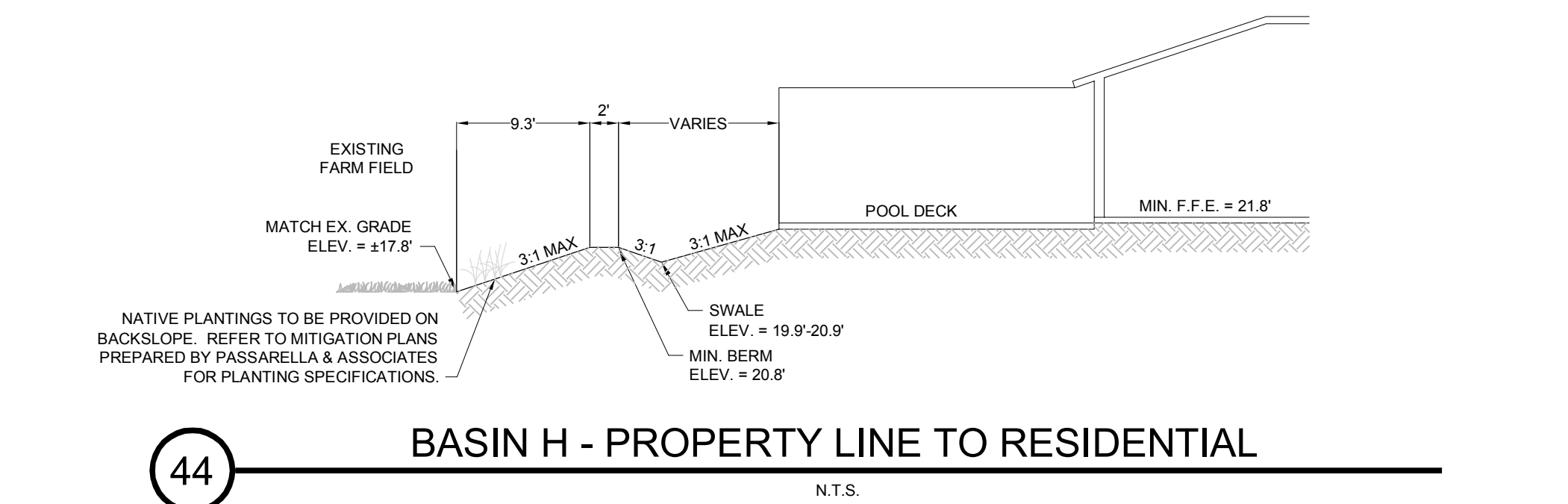
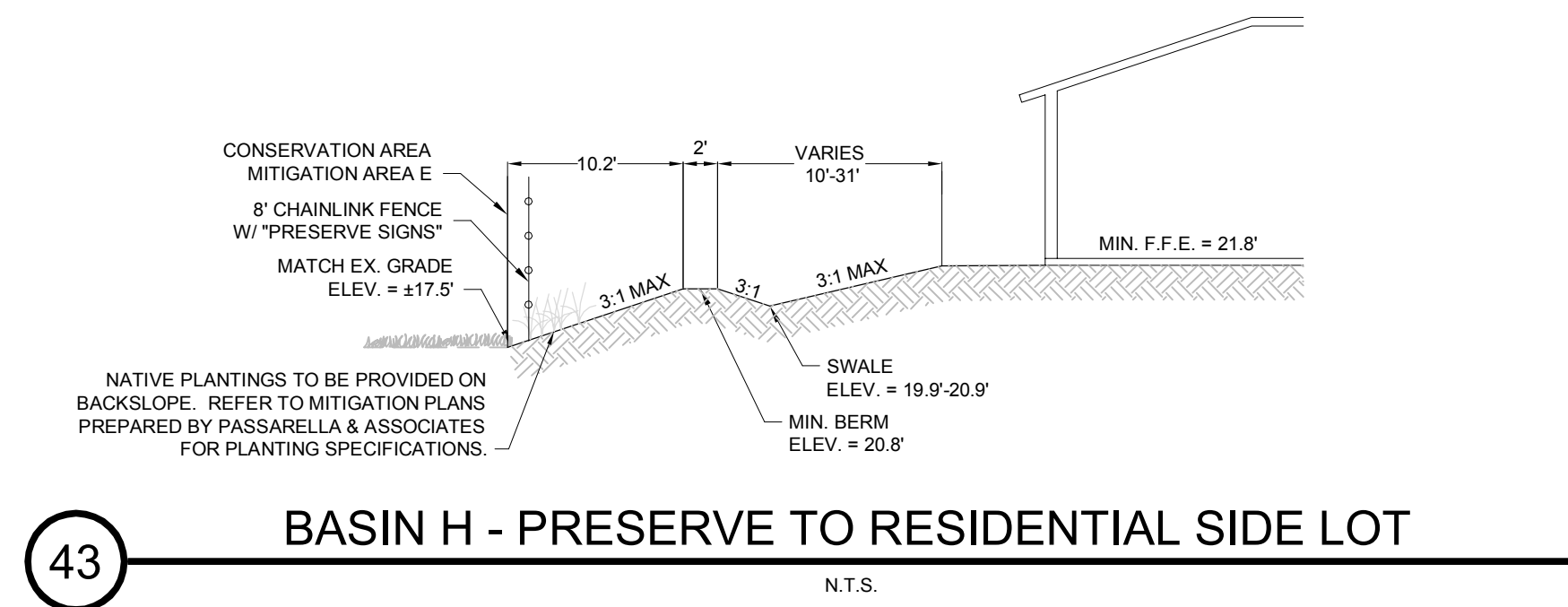
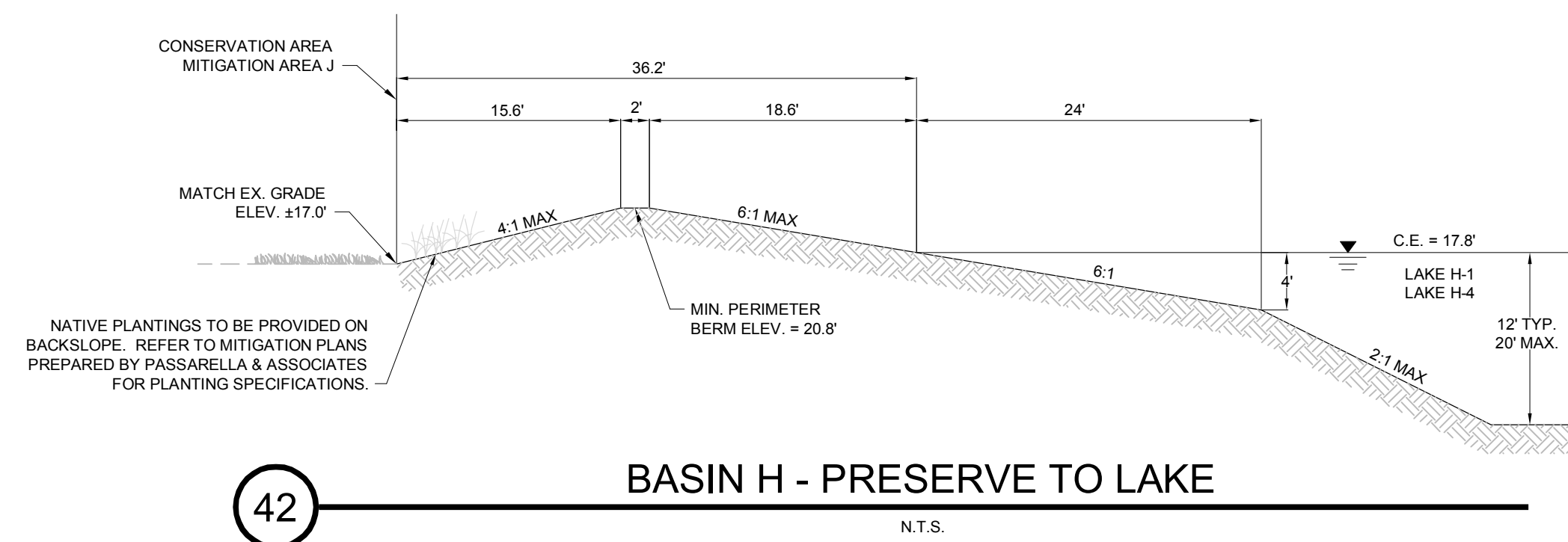
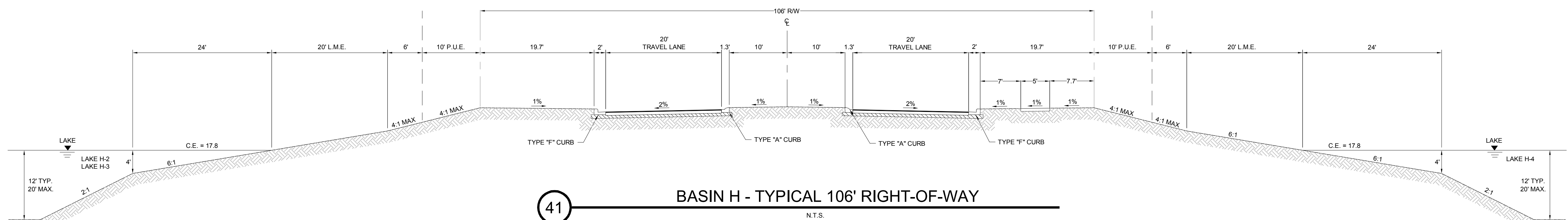
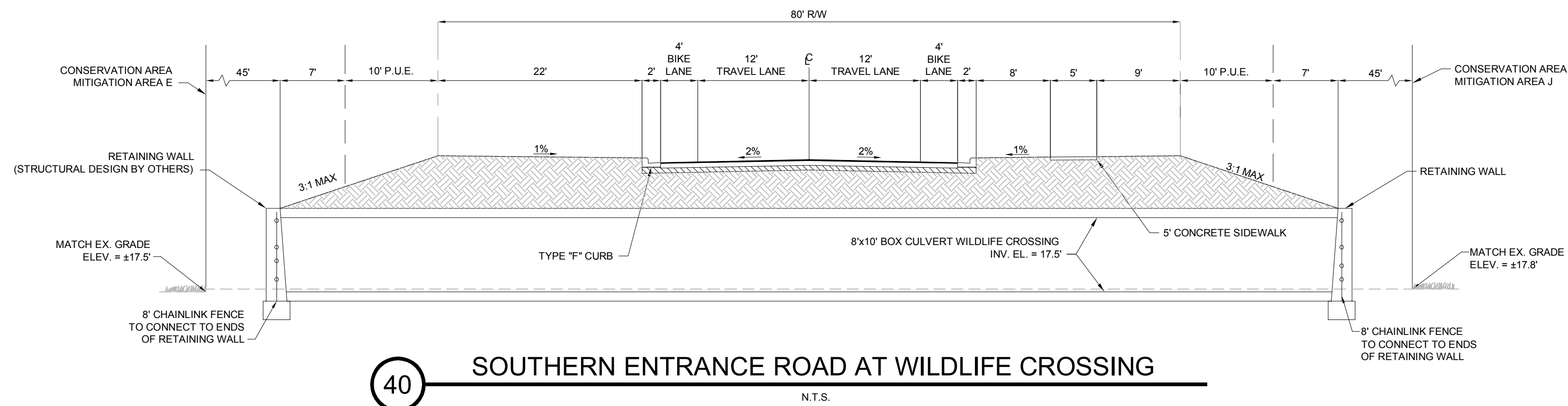
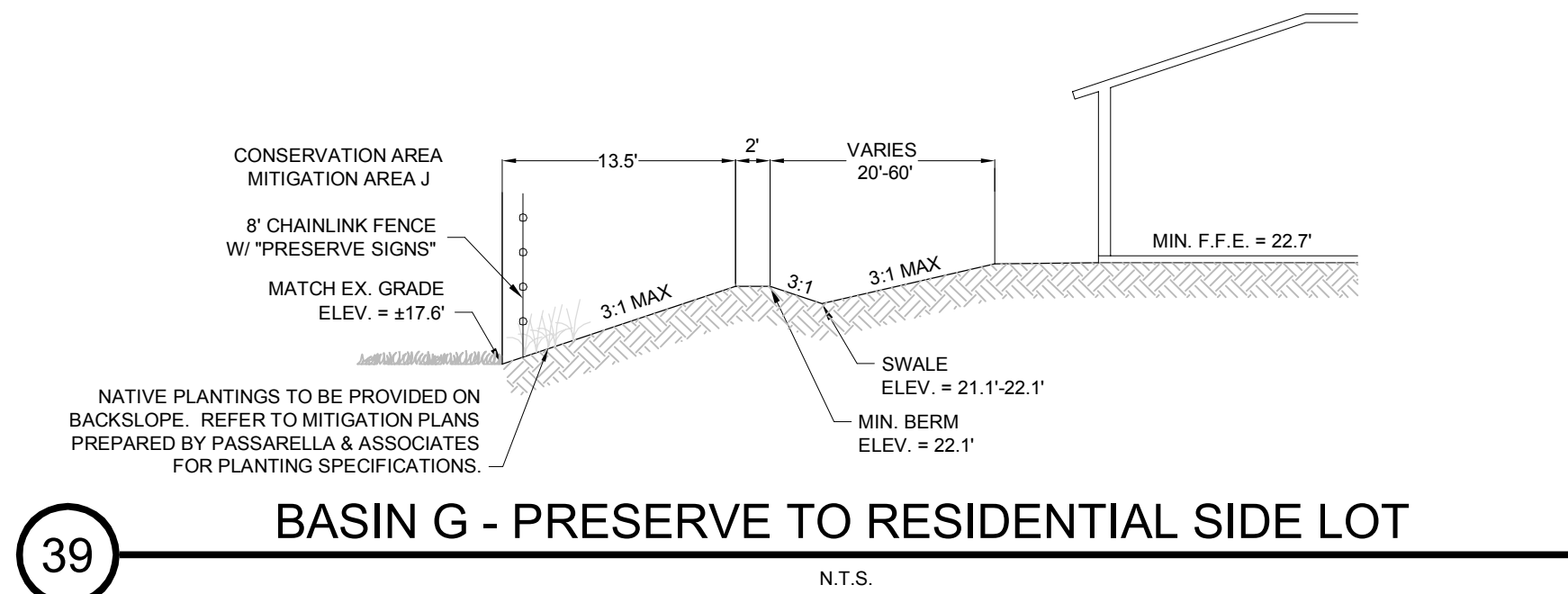
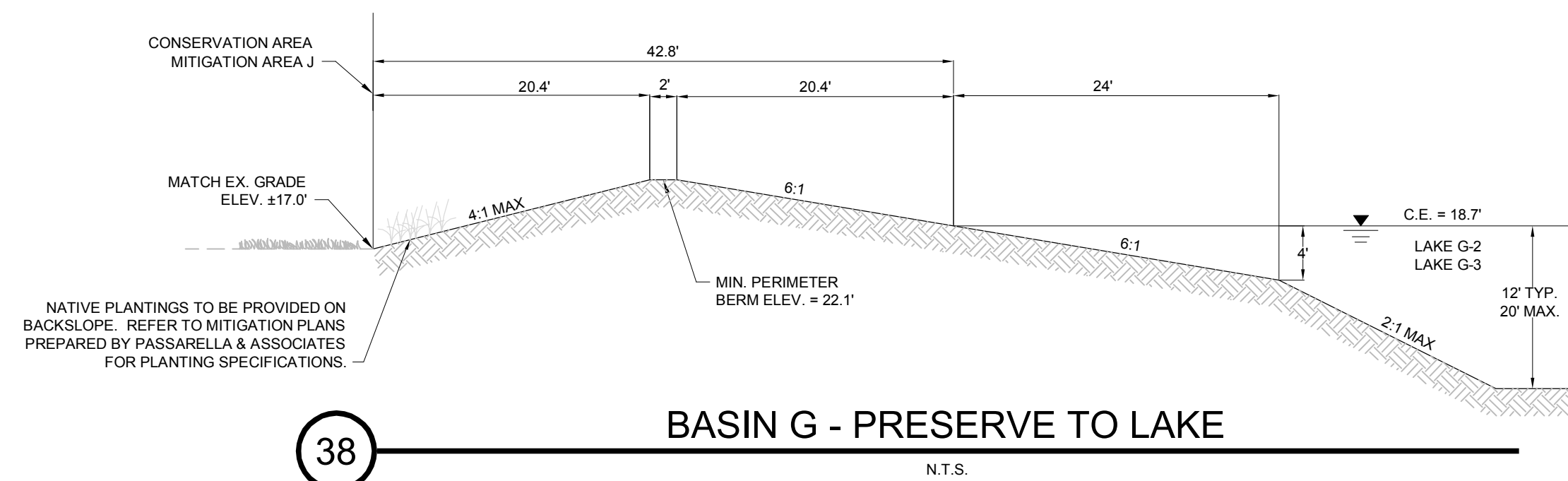
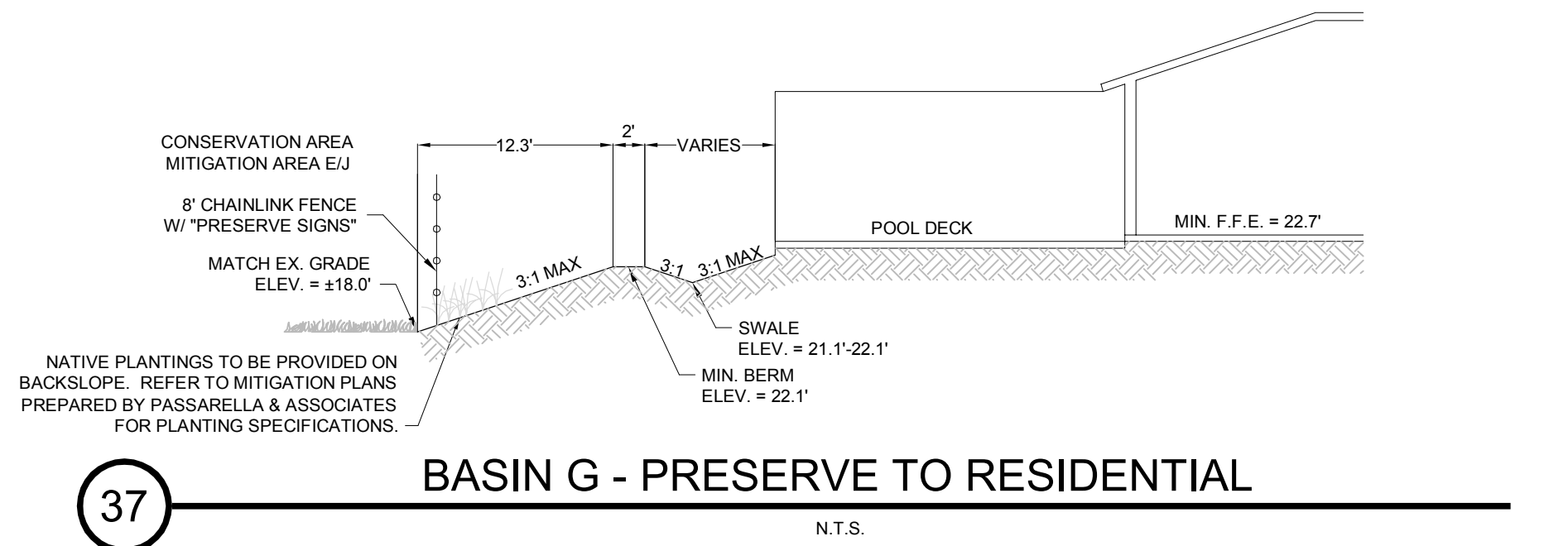
TYPICAL SECTIONS

PROJECT / FILE NO.

23473

SHEET NUMBER

8.3



PREPARED FOR

**LENNAR**

LENNAR HOMES  
10481 BEN C. PRATT / SIX MILE  
CYPRESS PARKWAY  
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FAX (239) 931-4749

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**WildBlue**

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

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LOCATION J:\23473\DWG\ERP1  
PLOT DATE WED. 12-19-2018 - 2:21 PM  
PLOT BY TIM GAVIN

CROSS REFERENCED DRAWINGS

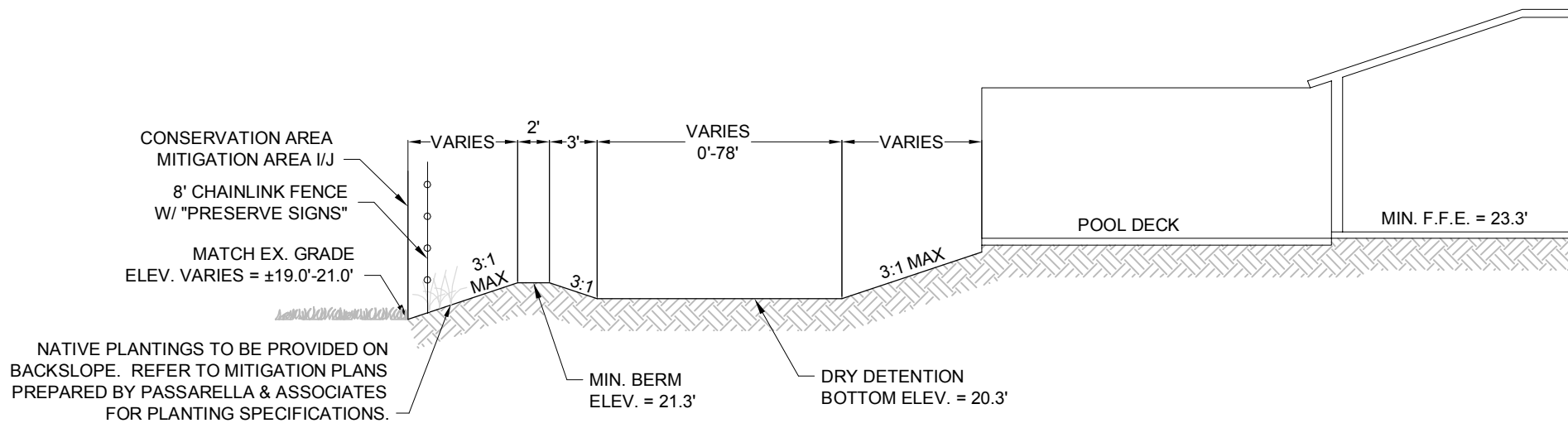
PLAN REVISIONS

PLAN STATUS

APPROVAL SUBMITTALS PLANS  
NOT FOR CONSTRUCTION

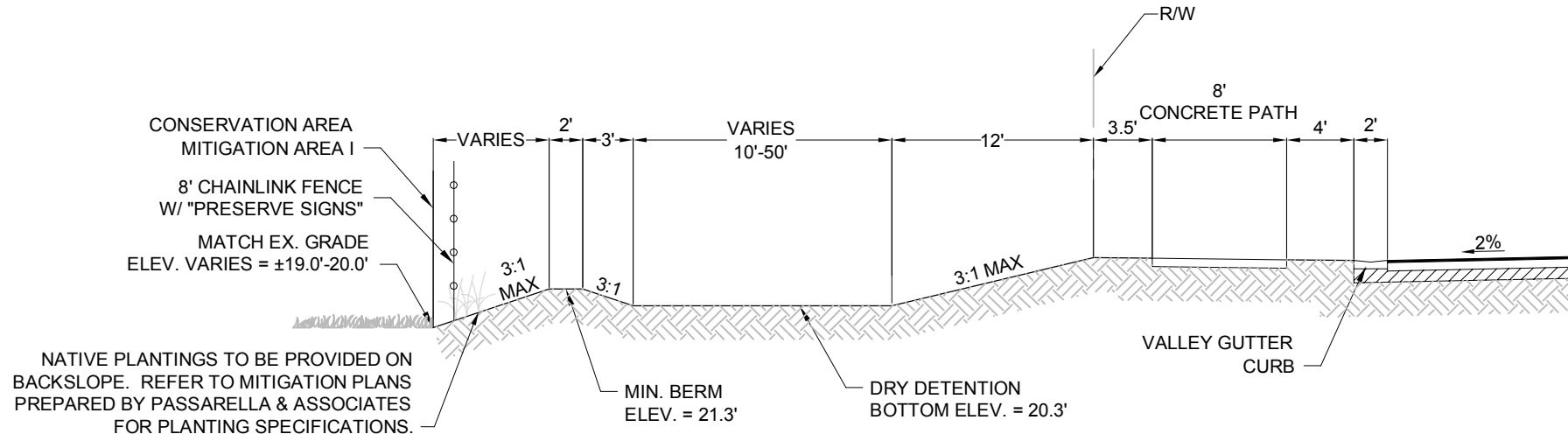
TYPICAL SECTIONS

PROJECT / FILE NO. 23473  
SHEET NUMBER 8.5



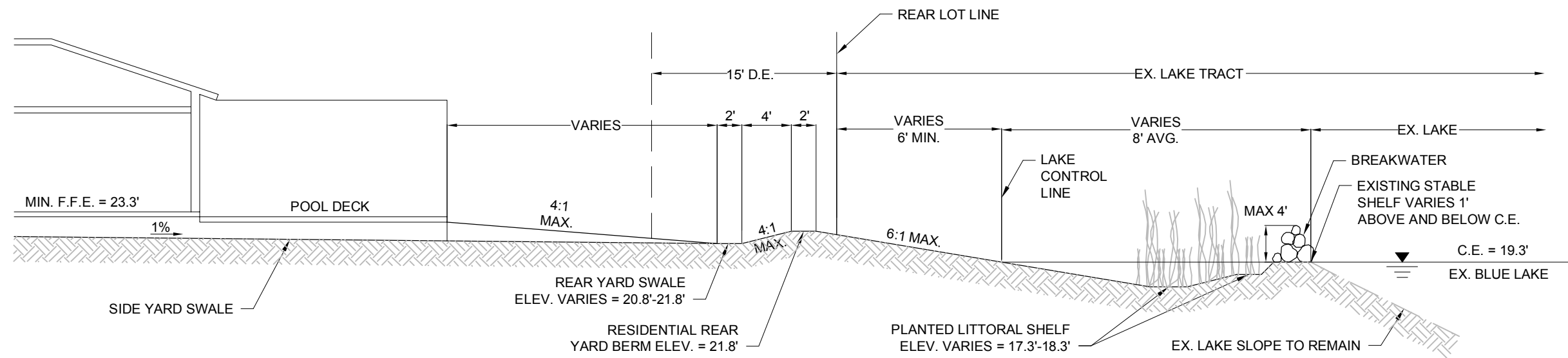
46 BASIN I - PRESERVE TO DRY DETENTION TO RESIDENTIAL

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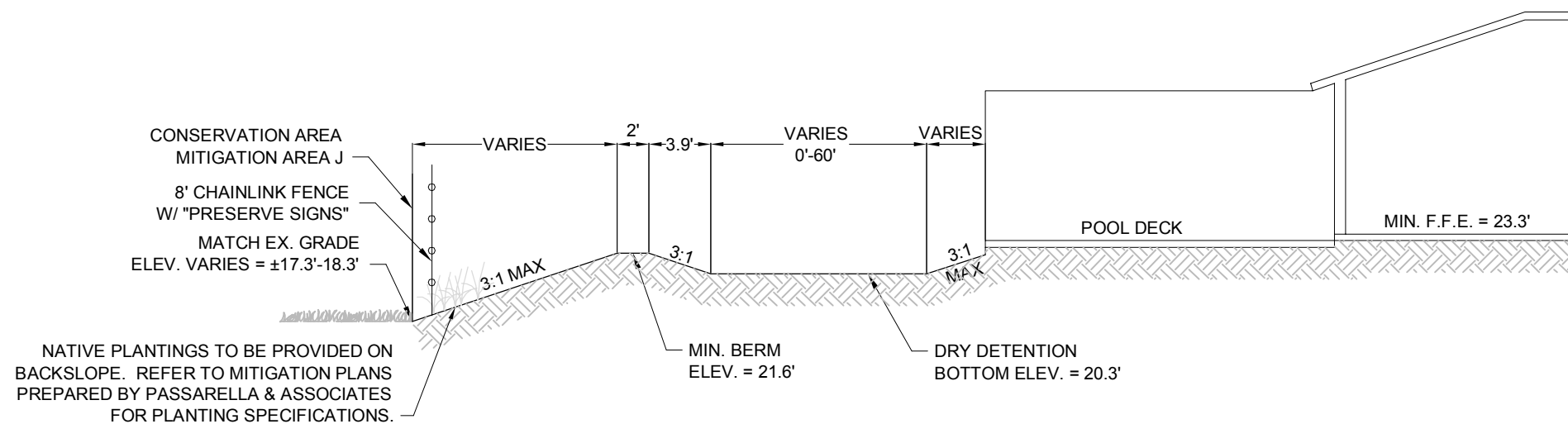
47 BASIN I - PRESERVE TO DRY DETENTION TO RIGHT-OF-WAY

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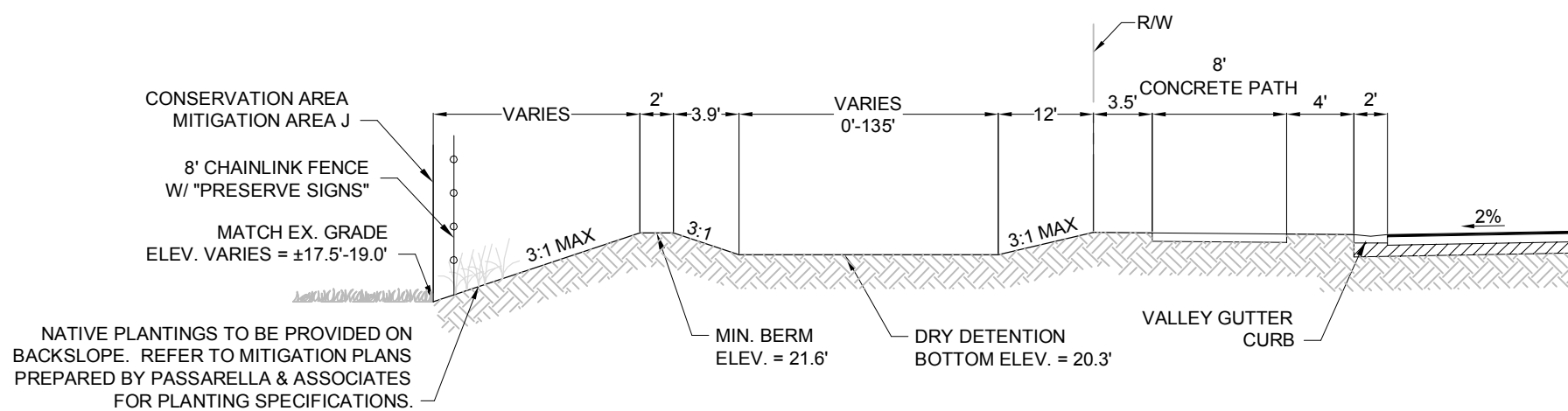
48 BASIN I/J - RESIDENTIAL TO EXISTING BLUE LAKE

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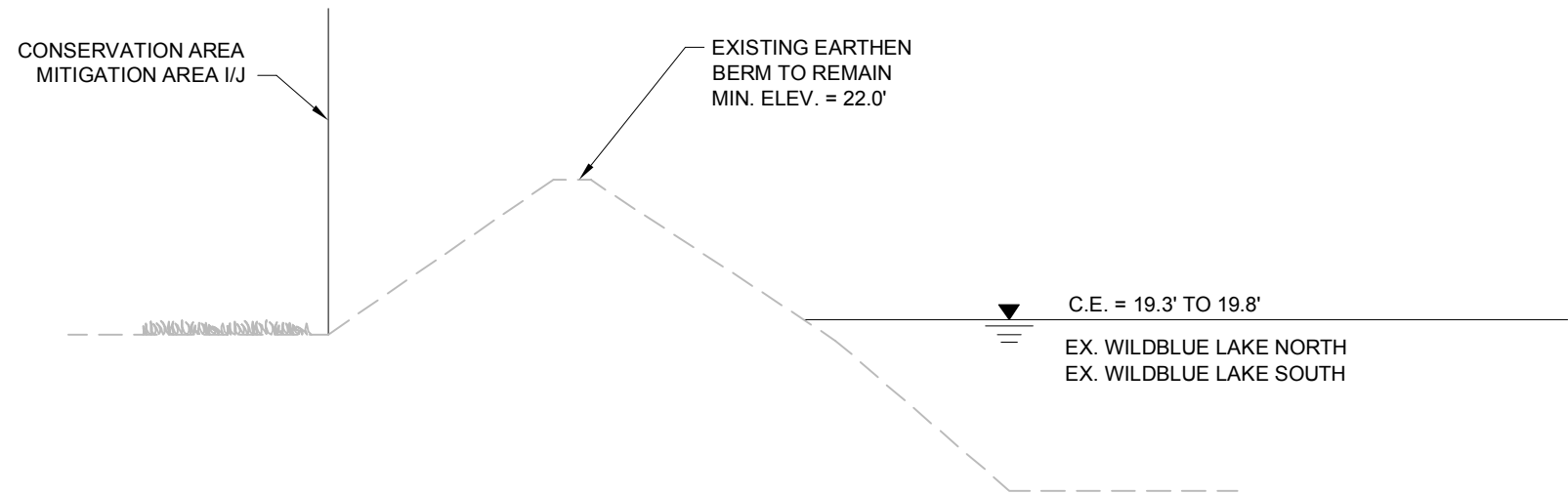
49 BASIN J - PRESERVE TO DRY DETENTION TO RESIDENTIAL

N.T.S.



50 BASIN J - PRESERVE TO DRY DETENTION TO RIGHT-OF-WAY

N.T.S.

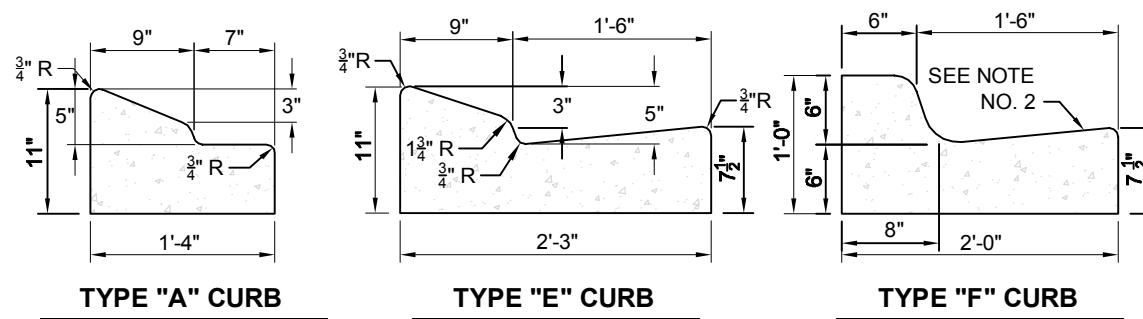
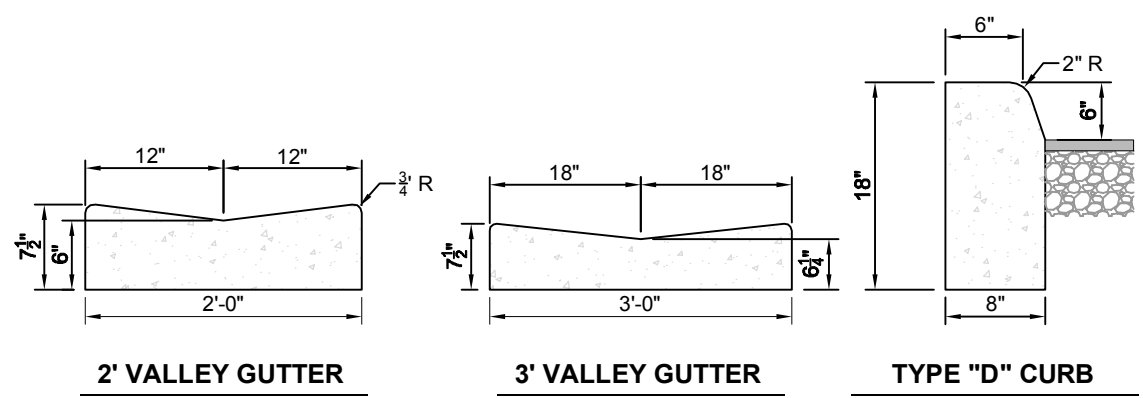


51 PRESERVE TO EXISTING LAKE

N.T.S.

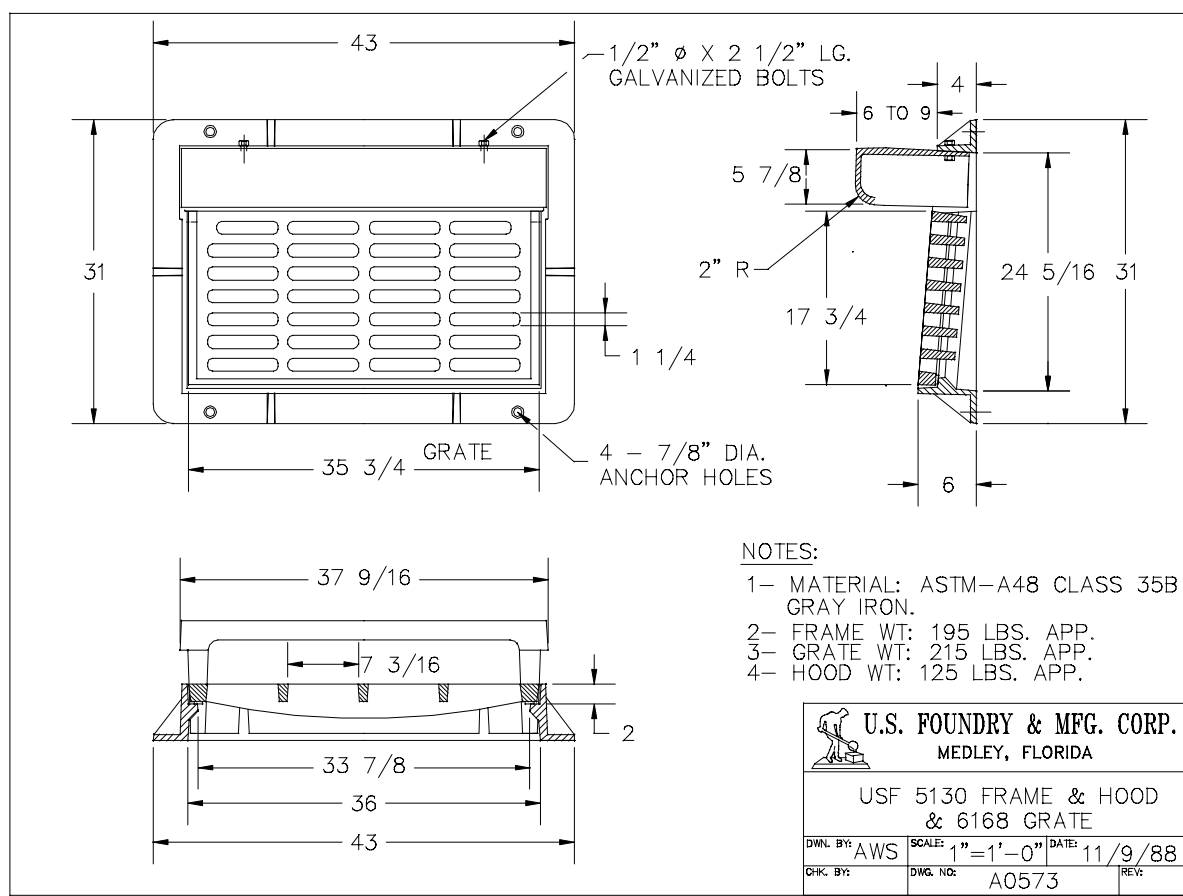
NOTES

- SEE F.D.O.T. DESIGN STANDARDS INDEX 300 FOR ADDITIONAL DETAILS.
- WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.
- CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI. WITHIN 28 DAYS UNLESS NOTED OTHERWISE.

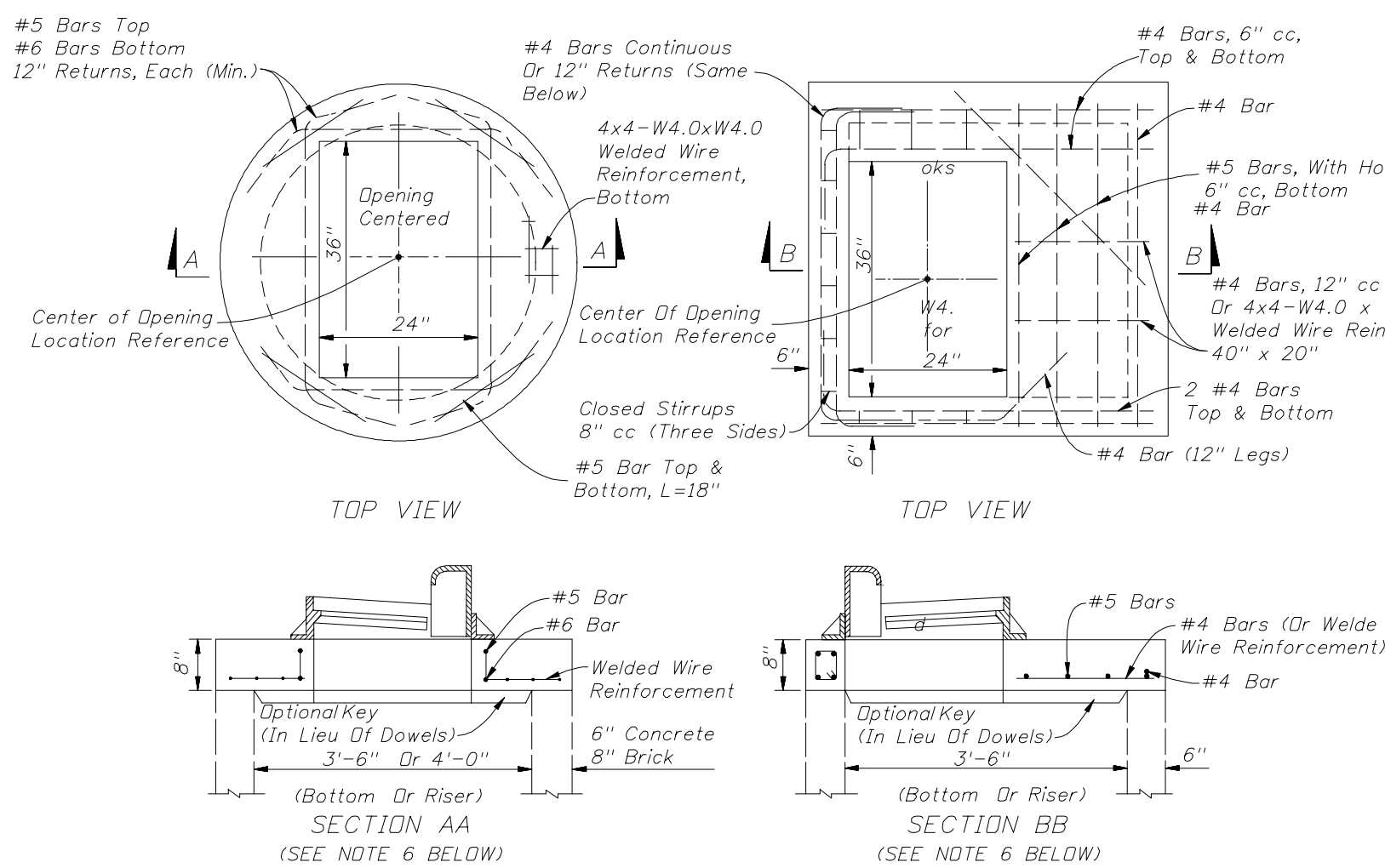


CONCRETE CURB

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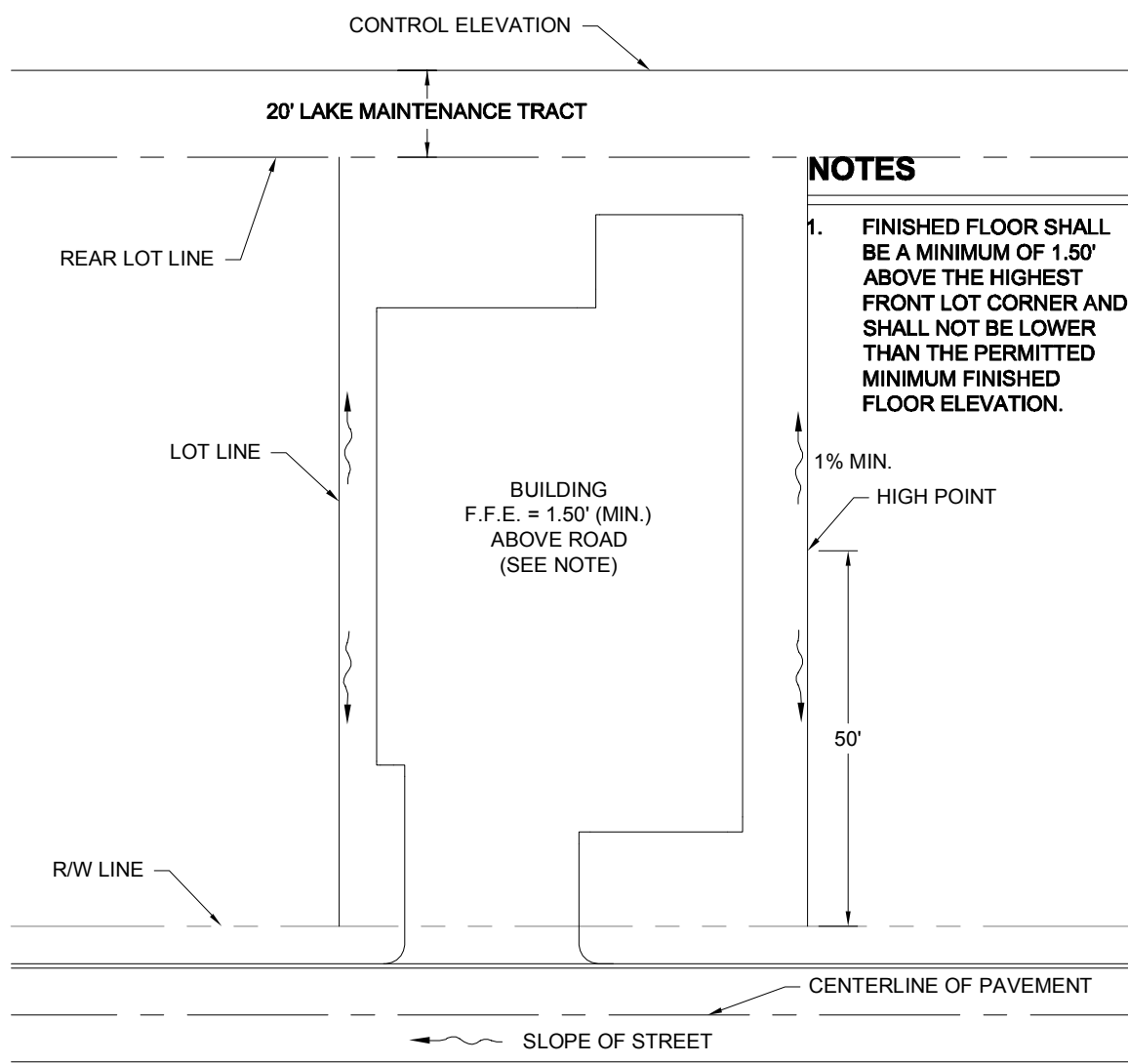
\* OR APPROVED EQUIVALENT  
N.T.S.



NOTE: FOR MORE INFORMATION SEE FDOT INDEX #214

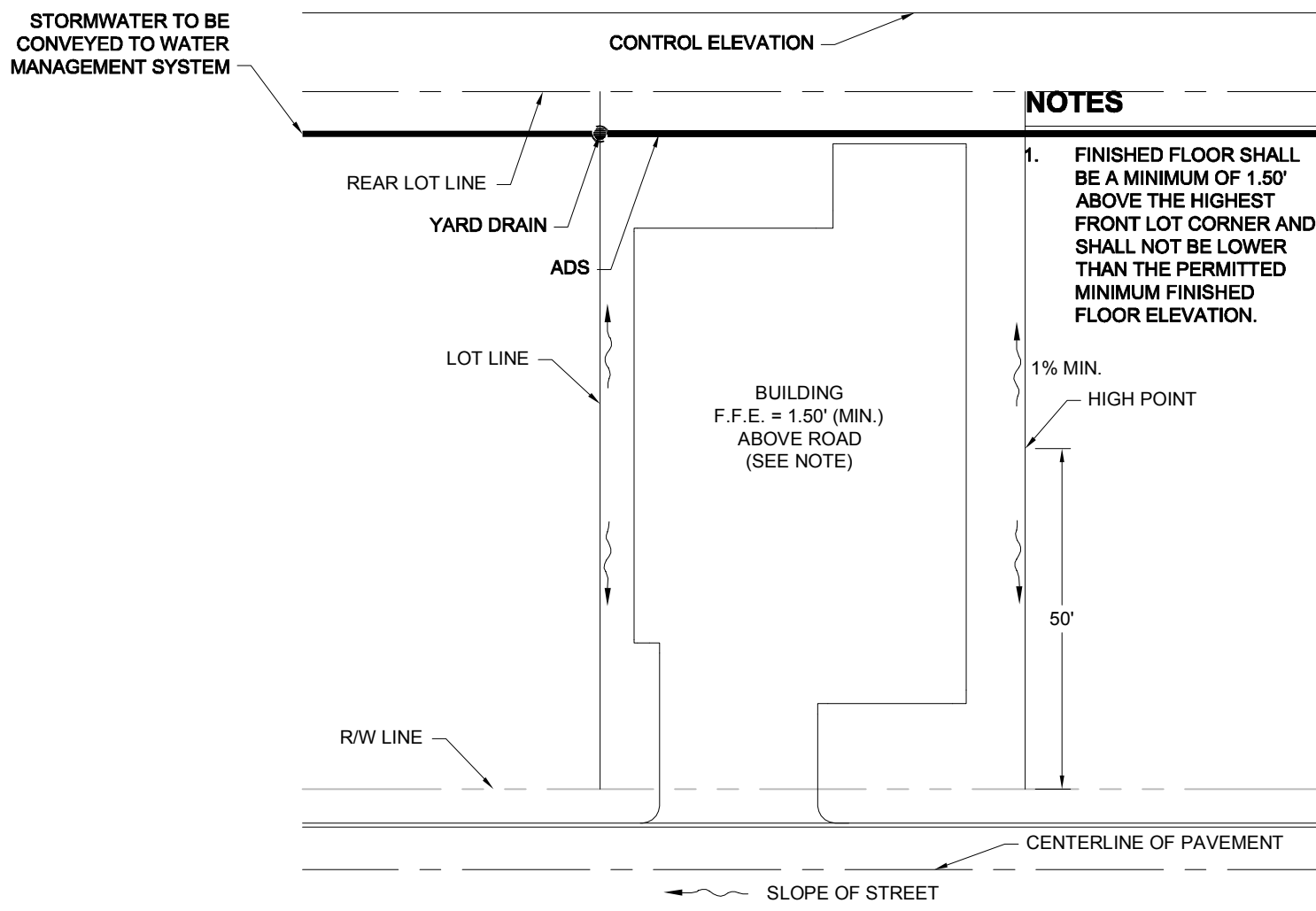
TYPE 9 CURB INLET

N.T.S.



TYPICAL LOT GRADING PLAN  
(WATER MANAGEMENT LAKE)

N.T.S.

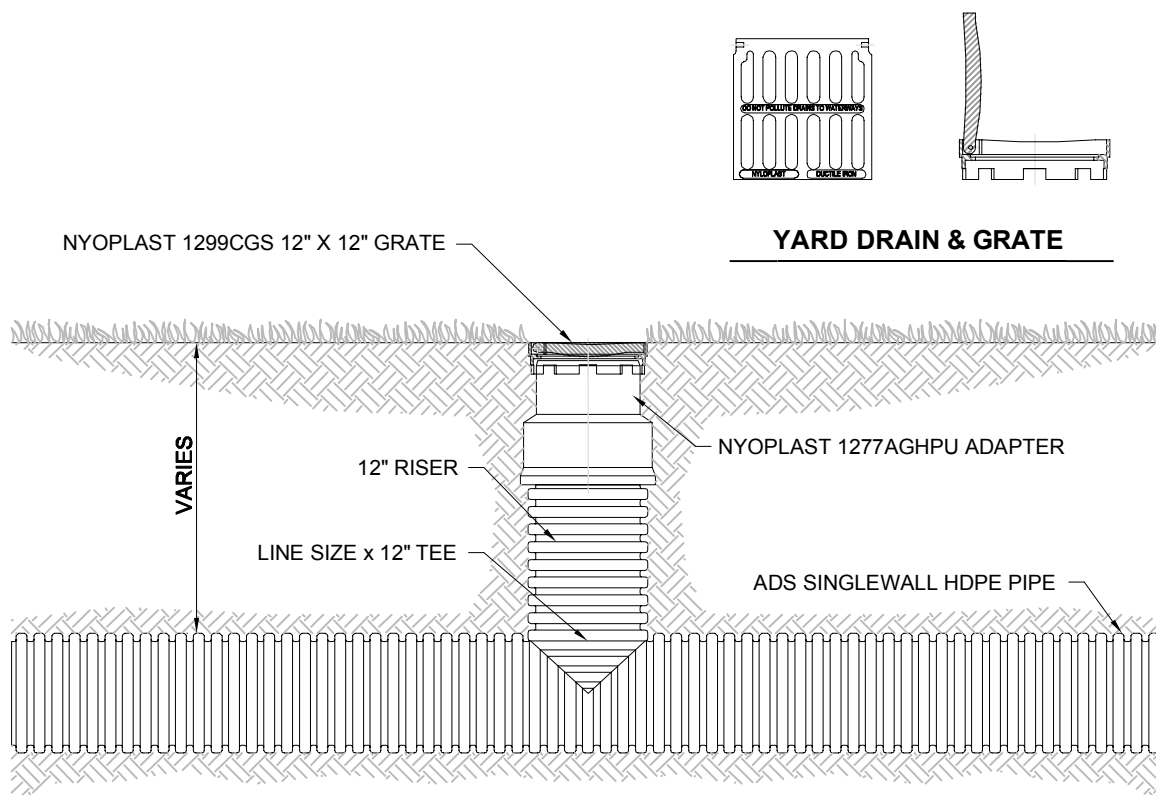


TYPICAL LOT GRADING PLAN  
(RECREATIONAL LAKE)

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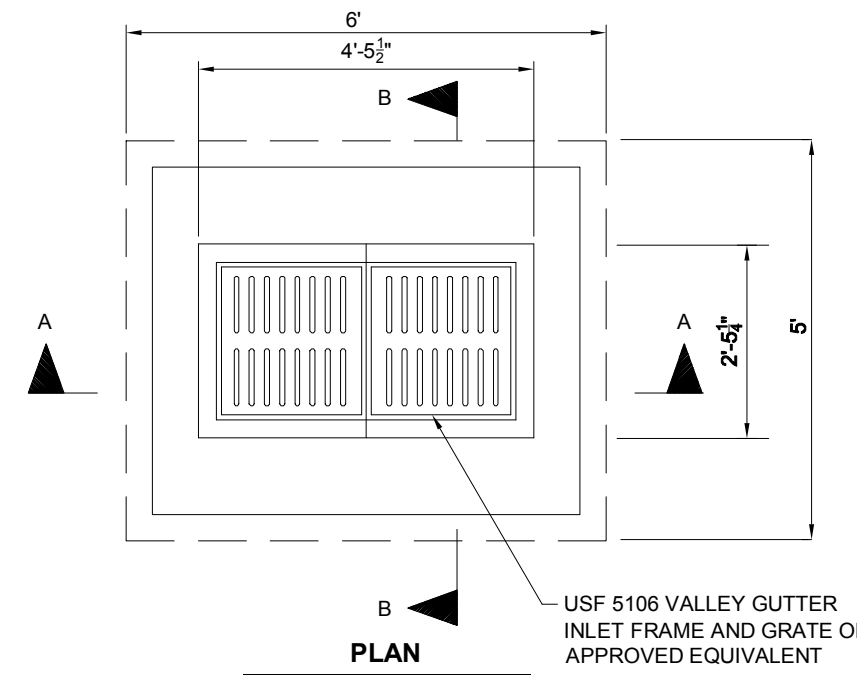
NOTES

- SEE DETAILED SITE PLANS FOR DRAINAGE PIPE SIZES AND INVERTS.
- ALTERNATE PIPE MATERIALS MAY BE SUBMITTED TO ENGINEER FOR CONSIDERATION.
- INSTALL PIPE AND YARD DRAIN IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- CONTRACTOR MAY UTILIZE LARGER PIPE SIZES THAN THOSE SHOWN ON PLANS AT NO ADDITIONAL COMPENSATION.



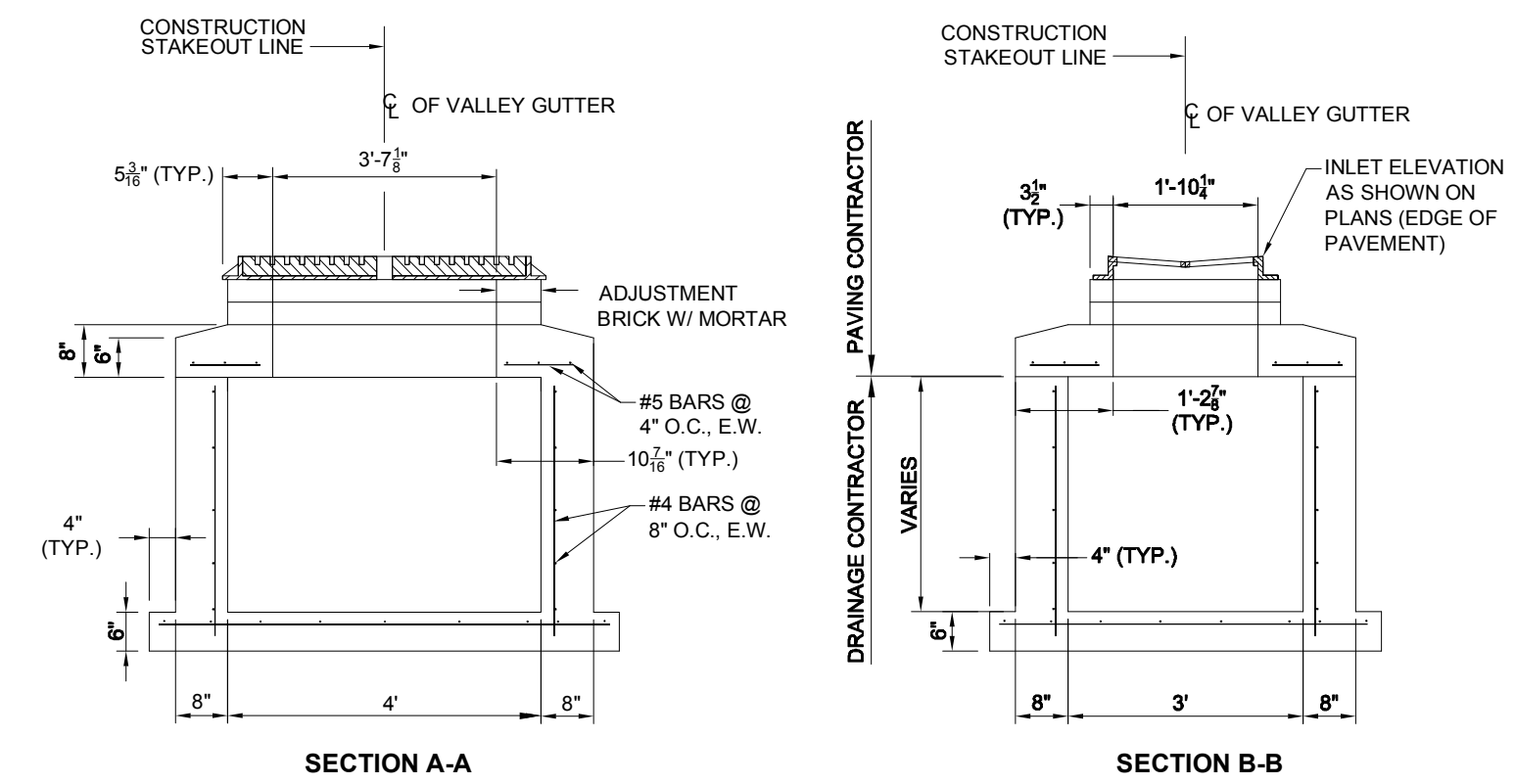
RESIDENTIAL YARD DRAIN

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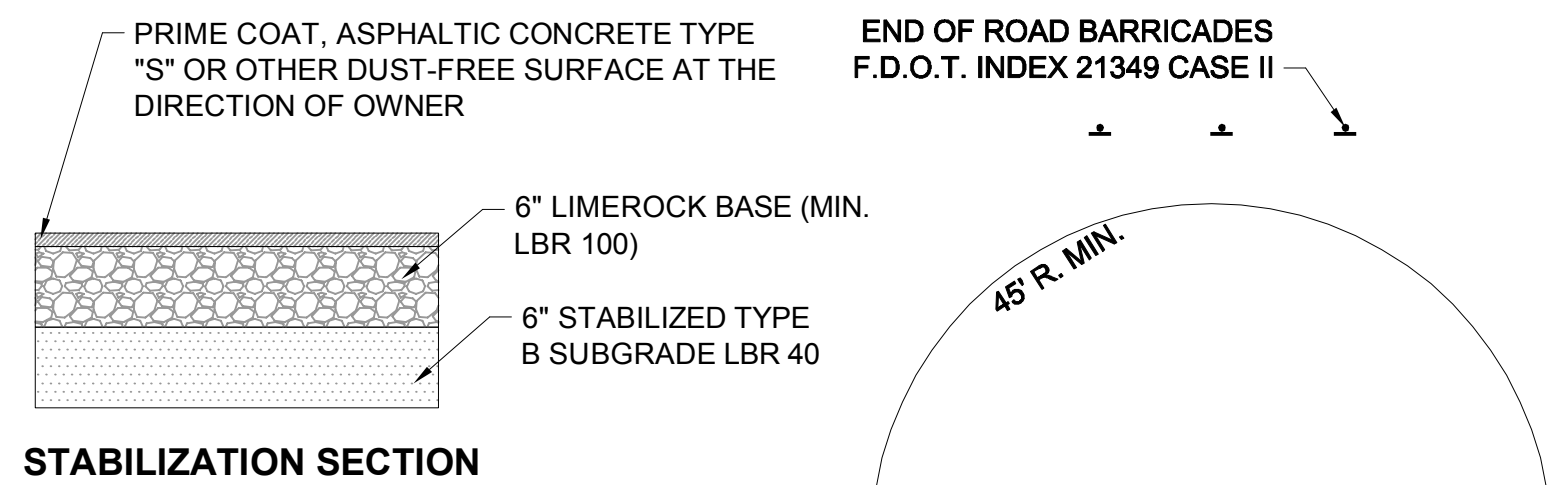
NOTES

- ALL REINFORCED STEEL SHALL HAVE MINIMUM TWO INCHES OF COVER.
  - ALL CONCRETE SHALL HAVE COMPRESSIVE STRENGTH OF 3,000 PSI. AT 28 DAYS.
  - CONTRACTOR TO PROVIDE AND INSTALL A NON-WOVEN FILTER FABRIC OVER INLET GRATE DURING CONSTRUCTION.
- INLET TO BE CONSTRUCTED IN ACCORDANCE WITH CURRENT F.D.O.T. STANDARD INDEX 200 AND 201.

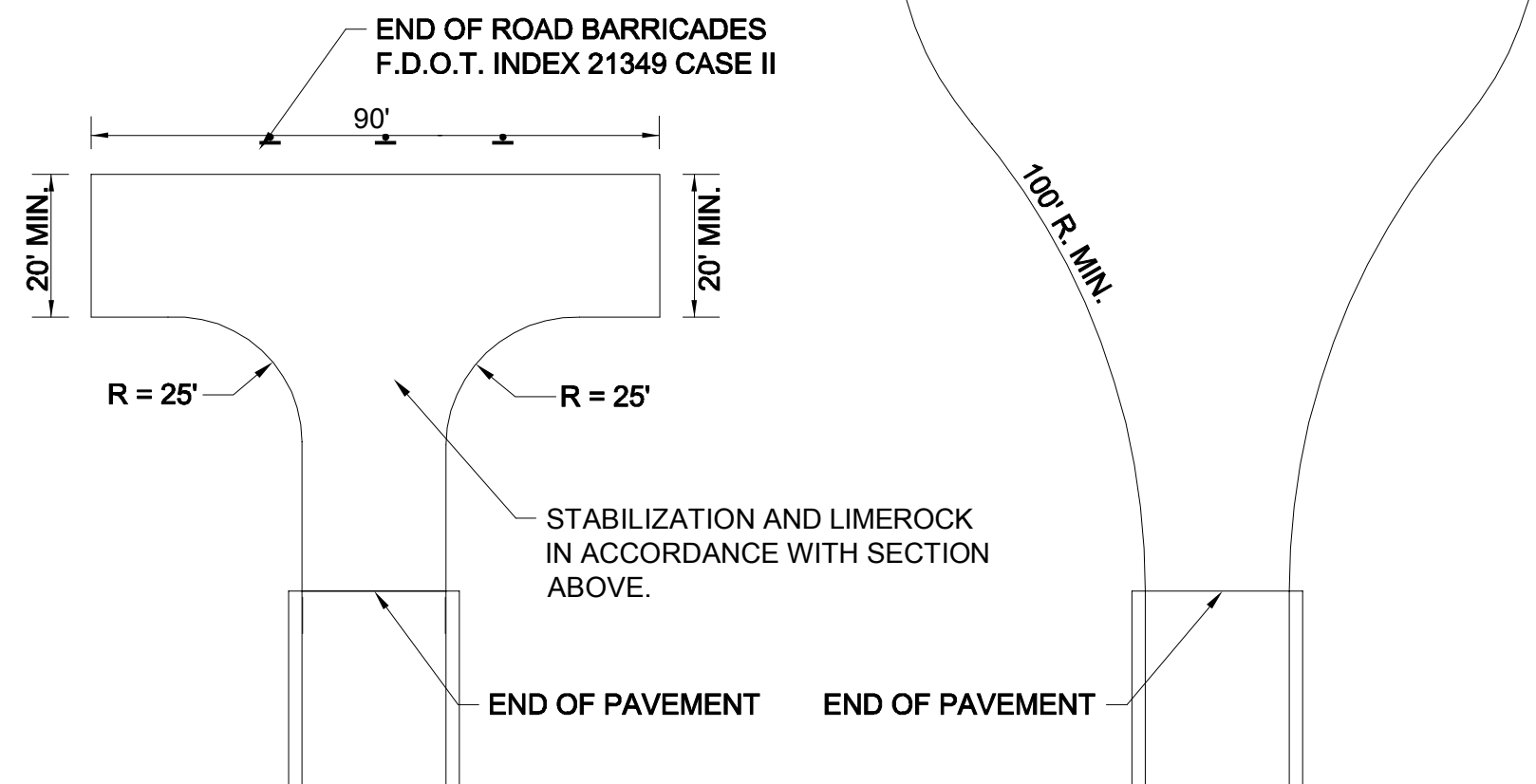


VALLEY GUTTER INLET

N.T.S.



STABILIZATION SECTION



TEMPORARY TURN AROUND

N.T.S.

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ENGINEERING 7995 - SURVEYING LB-6940

PREPARED FOR

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FORT MYERS, FLORIDA 33966

PHONE (239) 278-1177  
FAX (239) 931-4749

PROJECT DESCRIPTION

WildBlue

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

TIMOTHY B. GAVIN, P.E., FOR THE FIRM  
FLORIDA P.E. NO. 70675 - TIMG@BARRACO.NET

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FILE NAME J:\23473E\18.DWG

LOCATION J:\23473D\DWG\ERP\

PLOT DATE WED. 12-19-2018 - 2:21 PM

PLOT BY TIM GAVIN

CROSS REFERENCED DRAWINGS

| PLAN REVISIONS |  |
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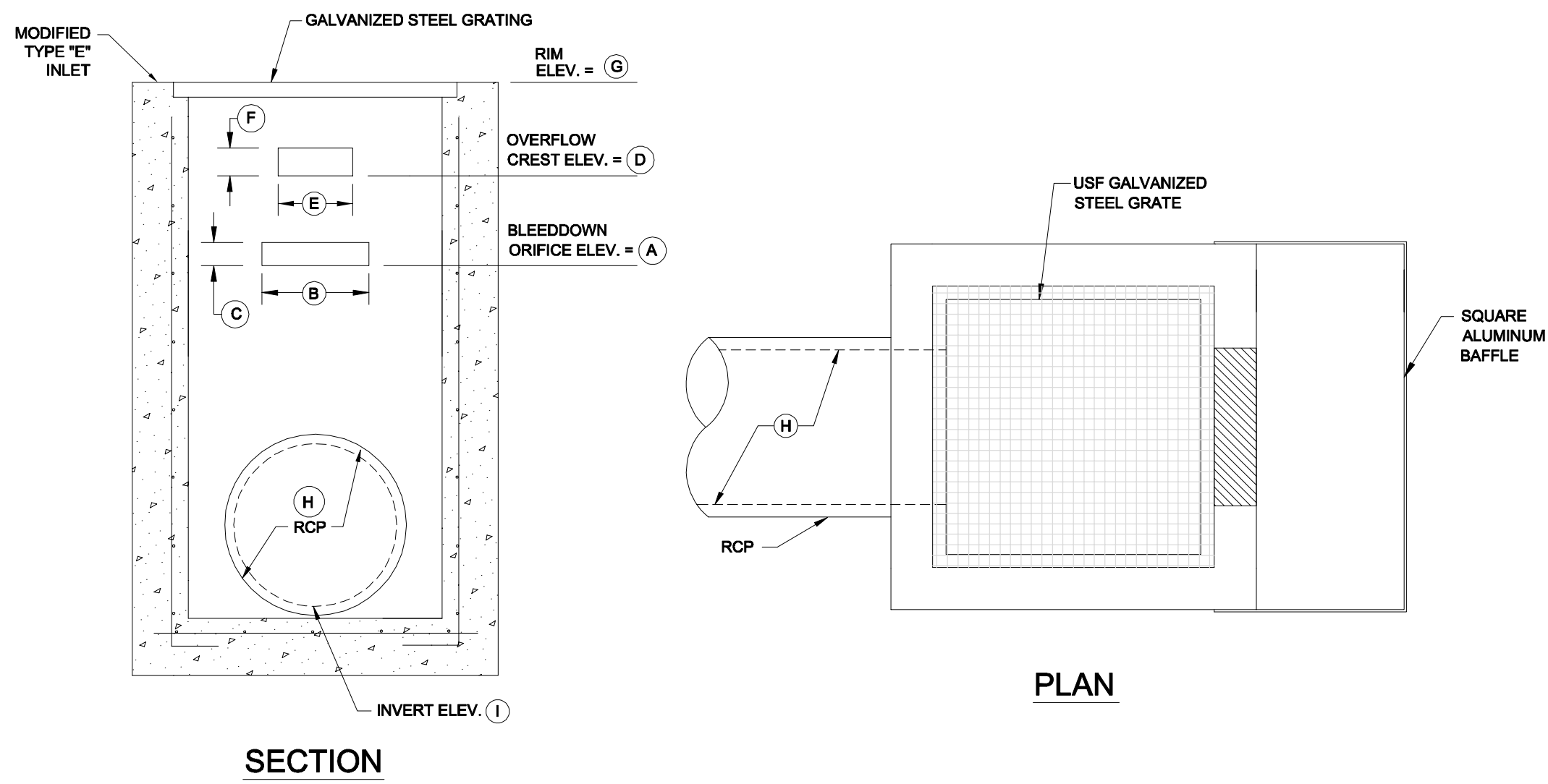
PLAN STATUS

APPROVAL SUBMITTALS PLANS  
NOT FOR CONSTRUCTION

TYPICAL  
DRAINAGE  
DETAILS

| PROJECT / FILE NO. | SHEET NUMBER |
|--------------------|--------------|
| 23473              | 8.6          |

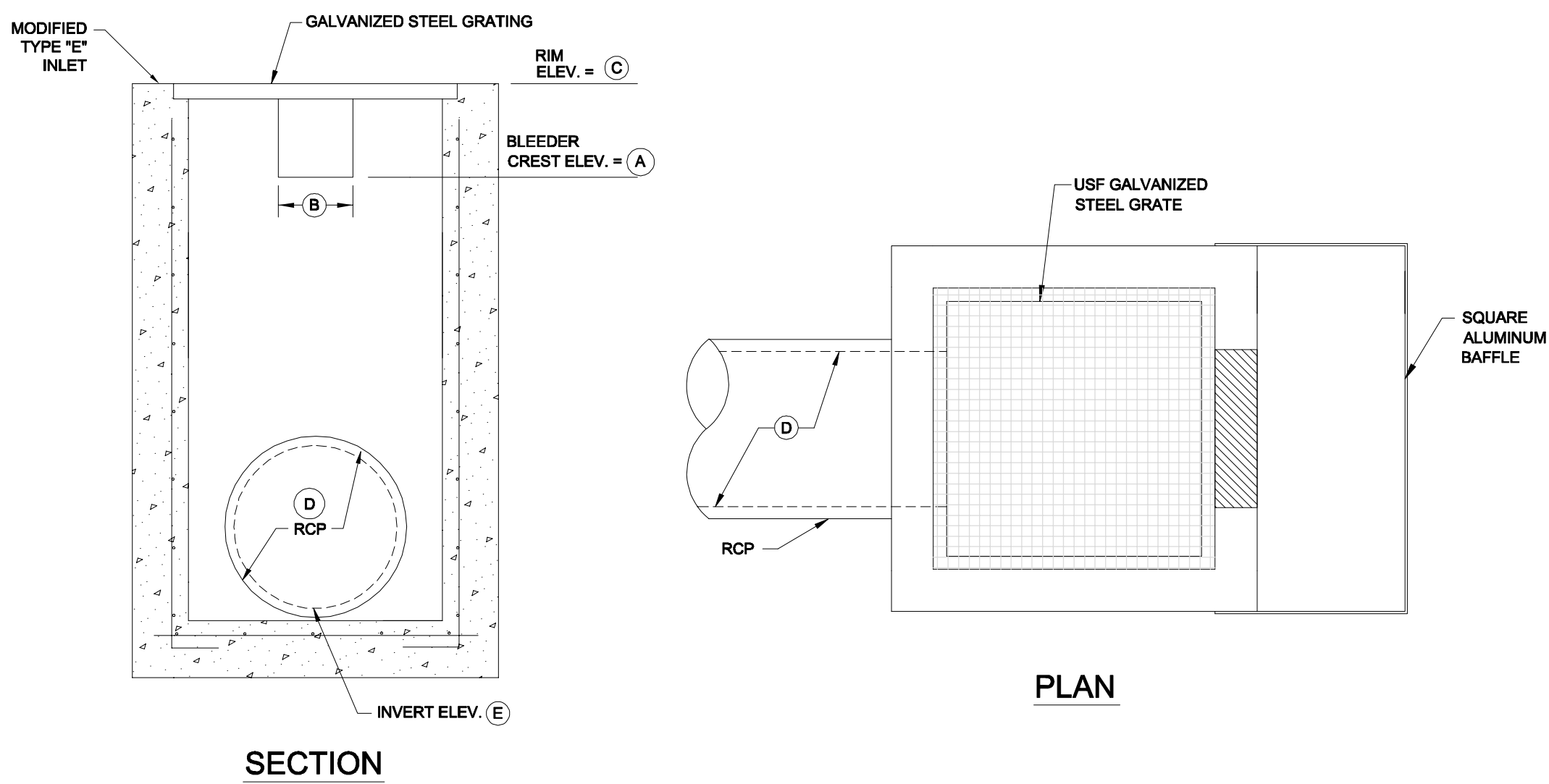




**CONTROL STRUCTURES: GROUP 1**  
CS-A-1, CS-B-1&2, CS-C-1&2, CS-D-1&2, CS-F-1&2, CS-G-1&2, CS-H-1&2

| CONTROL STRUCTURE PARAMETERS |                                       |  |  |  |  |  |  |  |  |
|------------------------------|---------------------------------------|--|--|--|--|--|--|--|--|
| (A)                          | INVERT OF BLEEDDOWN ORIFICE (FT-NAVD) |  |  |  |  |  |  |  |  |
| (B)                          | WIDTH OF BLEEDDOWN ORIFICE (INCHES)   |  |  |  |  |  |  |  |  |
| (C)                          | HEIGHT OF BLEEDDOWN ORIFICE (INCHES)  |  |  |  |  |  |  |  |  |
| (D)                          | OVERFLOW CREST ELEVATION (FT-NAVD)    |  |  |  |  |  |  |  |  |
| (E)                          | WIDTH OF OVERFLOW ORIFICE (INCHES)    |  |  |  |  |  |  |  |  |
| (F)                          | HEIGHT OF OVERFLOW ORIFICE (INCHES)   |  |  |  |  |  |  |  |  |
| (G)                          | RIM ELEVATION OF STRUCTURE (FT-NAVD)  |  |  |  |  |  |  |  |  |
| (H)                          | PIPE DIAMETER (INCHES)                |  |  |  |  |  |  |  |  |
| (I)                          | INVERT OF PIPE AT STRUCTURE (FT-NAVD) |  |  |  |  |  |  |  |  |

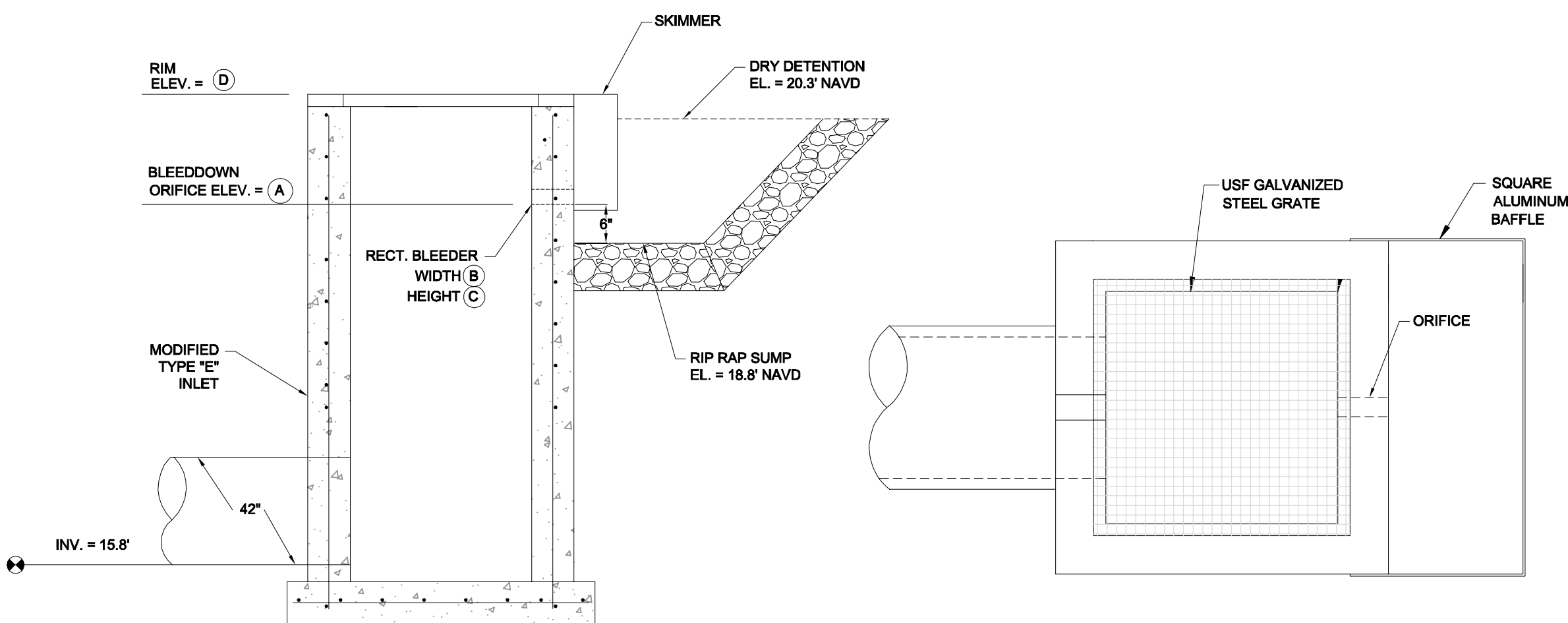
| CONTROL STRUCTURE SCHEDULE: |       |       |      |       |       |      |       |     |       |
|-----------------------------|-------|-------|------|-------|-------|------|-------|-----|-------|
|                             | (A)   | (B)   | (C)  | (D)   | (E)   | (F)  | (G)   | (H) | (I)   |
| CS-A-1                      | 22.5' | 11.0" | 2.0" | 22.9' | 2.0"  | 3.0" | 24.8' | 18" | 17.3' |
| CS-B-1 & CS-B-2             | 21.0' | 9.0"  | 3.0" | 21.7' | 8.0"  | 3.0" | 23.0' | 24" | 16.5' |
| CS-C-1 & CS-C-2             | 21.8' | 13.0" | 3.0" | 22.6' | 8.0"  | 2.0" | 25.5' | 24" | 17.3' |
| CS-D-1 & CS-D-2             | 20.0' | 12.0" | 2.0" | 20.7' | 10.5" | 2.0" | 22.0' | 24" | 15.0' |
| CS-F-1 & CS-F-2             | 19.5' | 10.0" | 3.0" | 20.2' | 7.5"  | 2.0" | 21.9' | 24" | 15.0' |
| CS-G-1 & CS-G-2             | 18.7' | 17.0" | 3.0" | 19.3' | 4.0"  | 2.0" | 22.1' | 24" | 15.2' |
| CS-H-1 & CS-H-2             | 17.8' | 12.0" | 3.0" | 18.3' | 3.5"  | 2.0" | 20.8' | 24" | 14.3' |



**CONTROL STRUCTURES: GROUP 2**  
CS-E-1

| CONTROL STRUCTURE PARAMETERS |                                       |  |  |  |  |
|------------------------------|---------------------------------------|--|--|--|--|
| (A)                          | INVERT OF BLEEDDOWN WEIR (FT-NAVD)    |  |  |  |  |
| (B)                          | WIDTH OF BLEEDDOWN WEIR (INCHES)      |  |  |  |  |
| (C)                          | RIM ELEVATION OF STRUCTURE (FT-NAVD)  |  |  |  |  |
| (D)                          | PIPE DIAMETER (INCHES)                |  |  |  |  |
| (E)                          | INVERT OF PIPE AT STRUCTURE (FT-NAVD) |  |  |  |  |

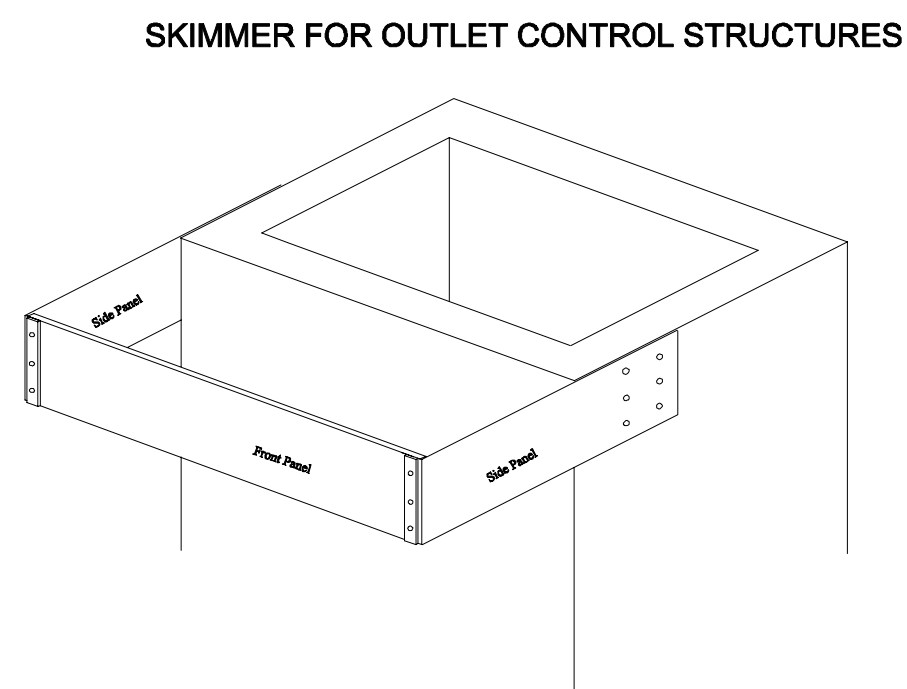
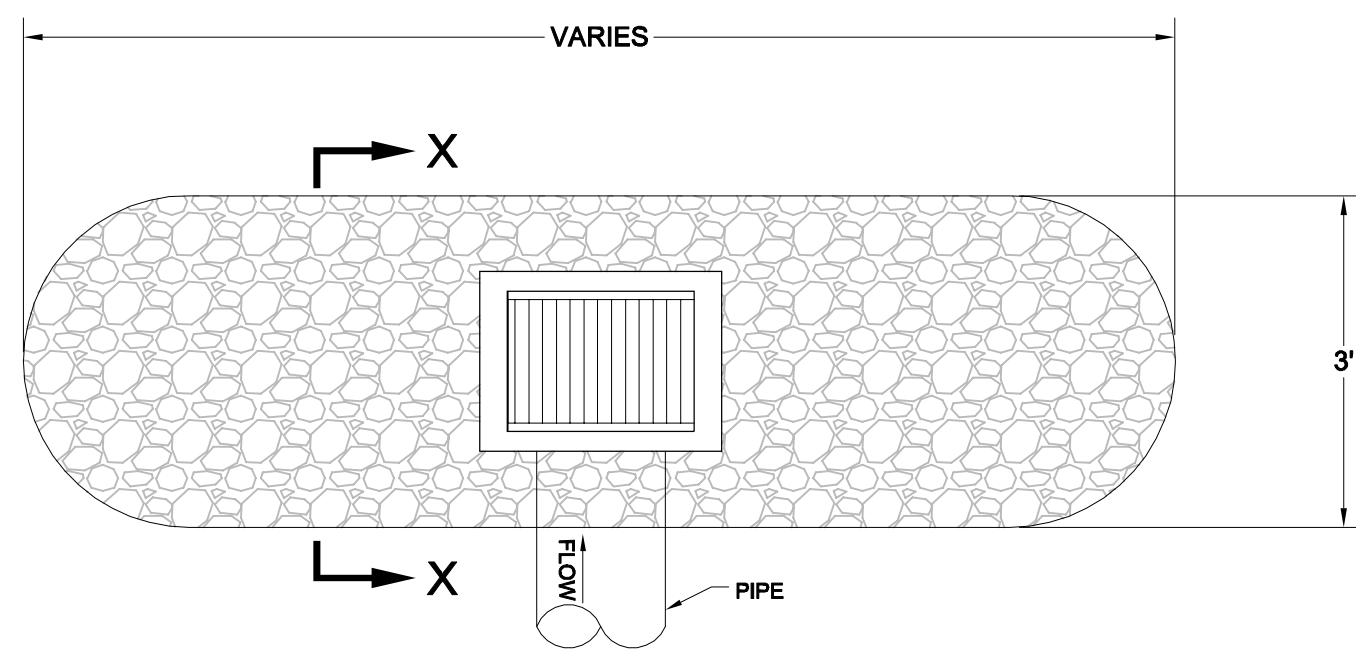
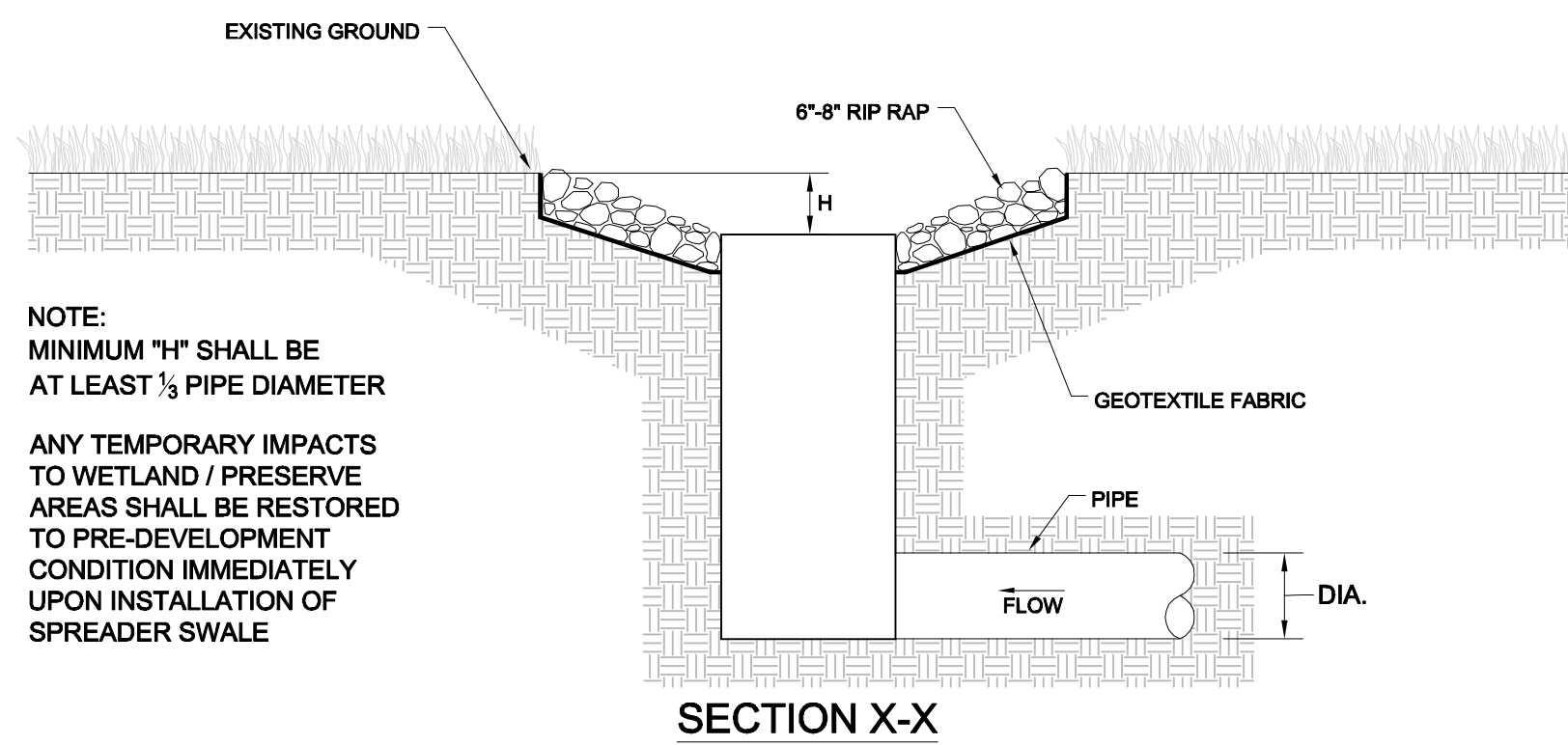
| CONTROL STRUCTURE SCHEDULE: |       |       |       |     |       |
|-----------------------------|-------|-------|-------|-----|-------|
|                             | (A)   | (B)   | (C)   | (D) | (E)   |
| CS-E-1                      | 20.0' | 30.0" | 20.3' | 30" | 14.4' |



**CONTROL STRUCTURES: GROUP 3**  
CS-I-1 TO 5 AND CS-J-1 TO 7

| CONTROL STRUCTURE PARAMETERS |                                       |  |  |  |  |
|------------------------------|---------------------------------------|--|--|--|--|
| (A)                          | INVERT OF BLEEDDOWN ORIFICE (FT-NAVD) |  |  |  |  |
| (B)                          | WIDTH OF BLEEDDOWN ORIFICE (INCHES)   |  |  |  |  |
| (C)                          | HEIGHT OF BLEEDDOWN ORIFICE (INCHES)  |  |  |  |  |
| (D)                          | RIM ELEVATION OF STRUCTURE (FT-NAVD)  |  |  |  |  |

| CONTROL STRUCTURE SCHEDULE: |       |      |      |       |
|-----------------------------|-------|------|------|-------|
|                             | (A)   | (B)  | (C)  | (D)   |
| CS-I-1 TO CS-I-5            | 19.3' | 3.5" | 2.0" | 20.8' |
| CS-J-1 TO CS-J-7            | 19.3' | 3.0" | 2.5" | 21.0' |



- GENERAL SKIMMER NOTES**  
(REFER TO FDOT INDEX 240 FOR FURTHER DETAILS)
- THIS SKIMMER IS INTENDED FOR USE ON TYPE C, D, OR E DITCH BOTTOM INLETS THAT ARE USED AS OUTLET CONTROL STRUCTURES OF STORMWATER MANAGEMENT FACILITIES.
  - THE SIDE PANELS ARE DIMENSIONALLY SYMMETRIC, THEREFORE THEY MAY BE USED ON EITHER SIDE OF THE STRUCTURE.
  - TWO (2) SKIMMERS MAY BE CONSTRUCTED ON ONE STRUCTURE PROVIDED THEY ARE ON OPPOSITE ENDS.
  - THE WIDTH OF THE FRONT PANEL (DIMENSION W) SHALL BE THE SAME AS THE OUTSIDE DIMENSION ACROSS THE FRONT OF THE STRUCTURE.
  - THE FRONT PANEL, SIDE PANELS, AND FLAT BARS ARE TO BE HOT DIP GALVANIZED AFTER FABRICATION.
  - THE LOCATION OF THE REINFORCING STEEL IN THESE STRUCTURES MUST CONFORM TO THE APPLICABLE STANDARDS TO AVOID CONFLICT WITH THE EXPANSION ANCHORS USED TO ATTACH THE SKIMMER.
  - GRATES TO BE USED ON THE INLETS UNLESS OTHERWISE SPECIFIED IN THE PLANS.
  - A SKIMMER CONSISTS OF TWO (2) SIDE PANELS, ONE FRONT PANEL, TWO (2) FLAT BARS, AND ACCESSORY HARDWARE. THE COST OF THE SKIMMERS IS TO BE INCLUDED IN THE COST OF THE INLET.

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ENGINEERING 7995 - SURVEYING LB-6940

PREPARED FOR  
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FAX (239) 931-4749

PROJECT DESCRIPTION  
**WildBlue**  
LEE COUNTY, FLORIDA

ENGINEER OF RECORD  
TIMOTHY B. GAVIN, P.E., FOR THE FIRM  
FLORIDA P.E. NO. 70675 - TIMG@BARRACO.NET

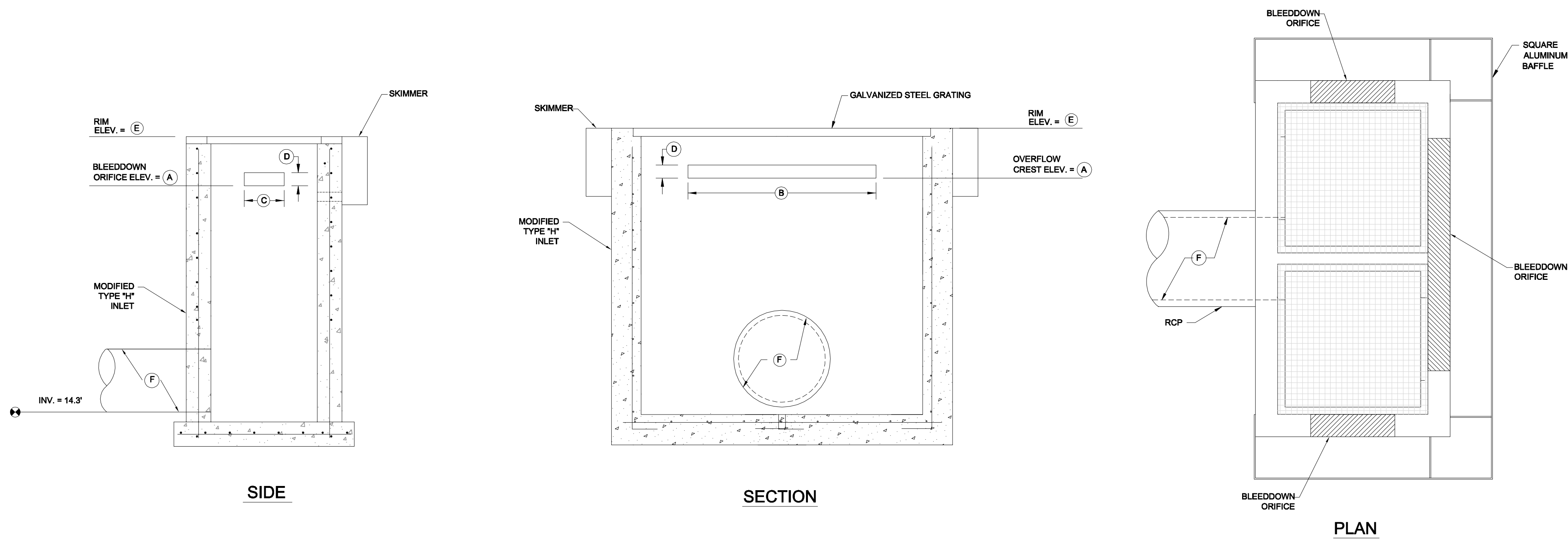
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PLOT DATE: WED. 12-19-2018 - 2:21 PM  
PLOT BY: TIM GAVIN

| CROSS REFERENCED DRAWINGS |  |
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PLAN STATUS  
APPROVAL SUBMITTALS PLANS  
NOT FOR CONSTRUCTION

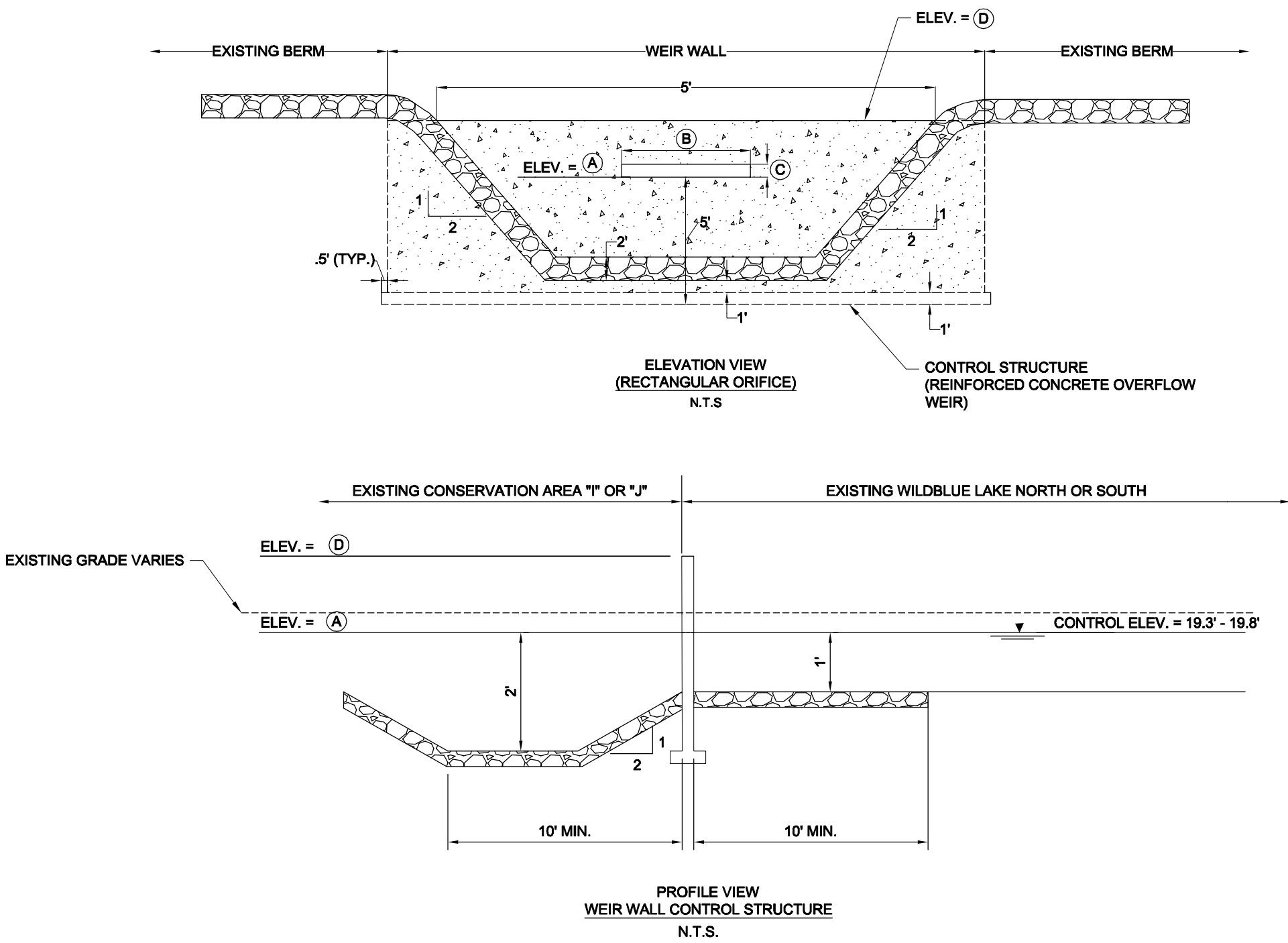
**CONTROL  
STRUCTURE  
DETAILS**  
PROJECT / FILE NO. **23416**  
SHEET NUMBER **9.0**



| CONTROL STRUCTURE PARAMETERS |   |
|------------------------------|---|
| (A)                          | INVERT OF BLEEDDOWN ORIFICE (FT-NAVD)     |
| (B)                          | WIDTH OF FRONT BLEEDDOWN ORIFICE (INCHES) |
| (C)                          | WIDTH OF SIDE BLEEDDOWN ORIFICES (INCHES) |
| (D)                          | HEIGHT OF BLEEDDOWN ORIFICES (INCHES)     |
| (E)                          | RIM ELEVATION OF STRUCTURE (FT-NAVD)      |
| (F)                          | PIPE DIAMETER (INCHES)                    |
| (G)                          | INVERT OF PIPE AT STRUCTURE (FT-NAVD)     |

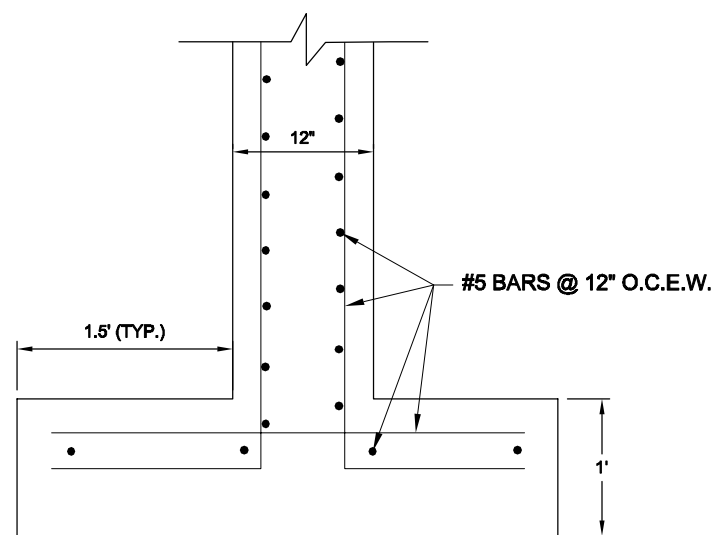
| CONTROL STRUCTURE SCHEDULE: |       |       |     |      |       |     |       |
|-----------------------------|-------|-------|-----|------|-------|-----|-------|
|                             | (A)   | (B)   | (C) | (D)  | (E)   | (F) | (G)   |
| CS-B-3                      | -     | -     | -   | -    | 21.7' | 42" | 16.0' |
| CS-D-3                      | -     | -     | -   | -    | 20.7' | 42" | 15.0' |
| CS-F-3                      | -     | -     | -   | -    | 20.2' | 42" | 14.5' |
| CS-BL-1 TO CS-BL-3          | 19.3' | 25.2" | 18" | 3.6" | 22.0' | 30" | 14.3' |
| CS-FSN                      | -     | -     | -   | -    | 22.5' | 36" | 14.3' |
| CS-FSS                      | -     | -     | -   | -    | 20.6' | 24" | 15.3' |

**CONTROL STRUCTURES: GROUP 4**  
CS-B-3, CS-D-3, CS-F-3, CS-BL-1 TO 3, CS-FSN, & CS-FSS

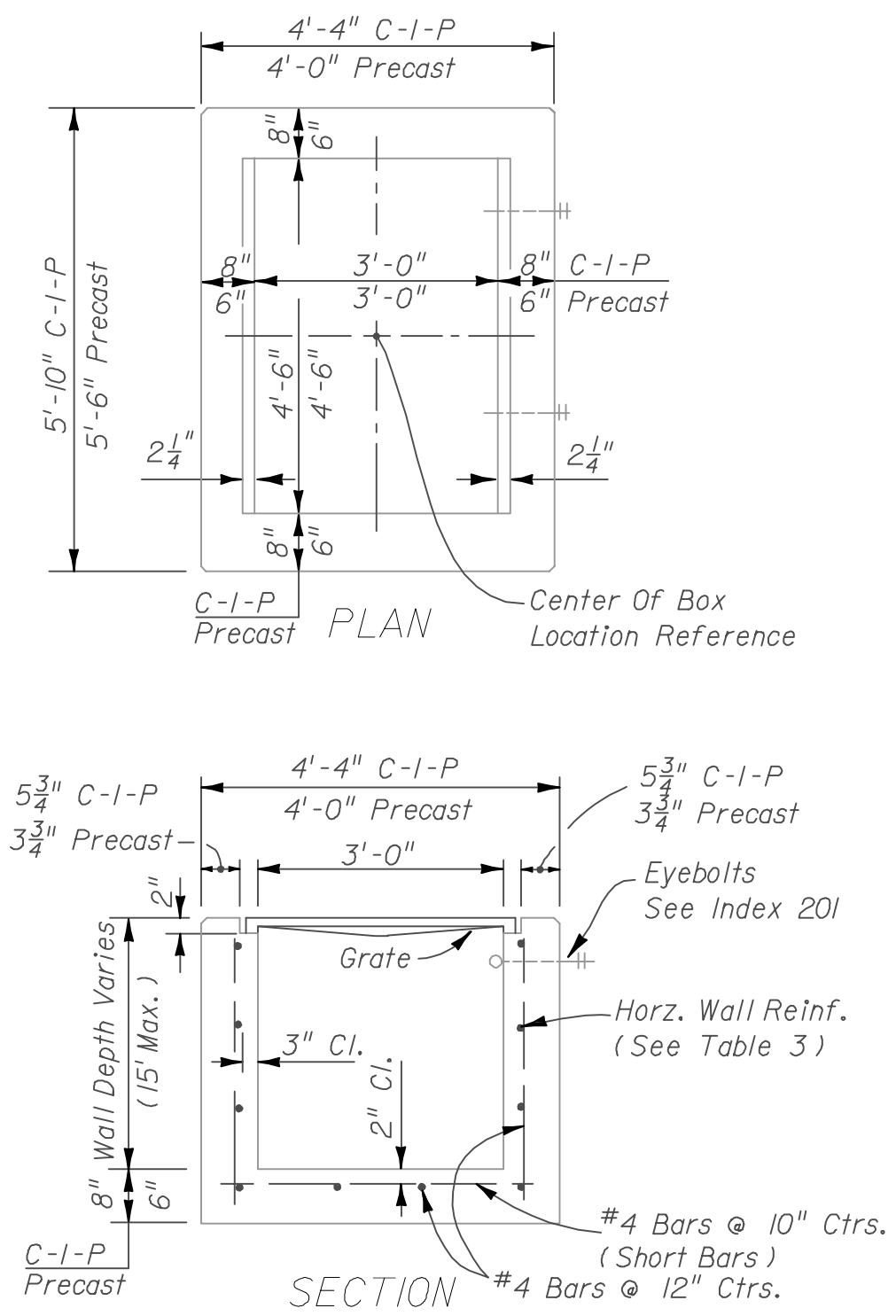


| CONTROL STRUCTURE PARAMETERS |  |
|------------------------------|--|
| (A)                          | INVERT OF BLEEDDOWN ORIFICE (FT-NAVD)                              |
| (B)                          | WIDTH OF RECTANGULAR NOTCH/ DIAMETER OF CIRCULAR BLEEDER (INCHES)  |
| (C)                          | HEIGHT OF RECTANGULAR NOTCH/ DIAMETER OF CIRCULAR BLEEDER (INCHES) |
| (D)                          | TOP OF WEIR WALL ELEVATION (FT-NAVD)                               |

| WEIR WALL CONTROL STRUCTURE SCHEDULE: |       |      |     |       |
|---------------------------------------|-------|------|-----|-------|
|                                       | (A)   | (B)  | (C) | (D)   |
| CS-WBLN-1 & 2                         | 19.8' | 144" | 4"  | 21.2' |
| CS-WBS-1 & 2                          | 19.3' | 22"  | 4"  | 20.5' |



NOTES:  
1. ALL REINFORCING STEEL AS SHOWN SHALL HAVE 2" MIN COVER  
2. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS



**FDOT TYPE 'E' INLET**

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PROJECT DESCRIPTION

WildBlue

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

TIMOTHY B. GAVIN, P.E., FOR THE FIRM

FLORIDA P.E. NO. 70675 - TIMG@BARRACO.NET

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PLOT DATE: WED. 12-19-2018 - 2:21 PM

PLOT BY: TIM GAVIN

CROSS REFERENCED DRAWINGS

PLAN REVISIONS

PLAN STATUS

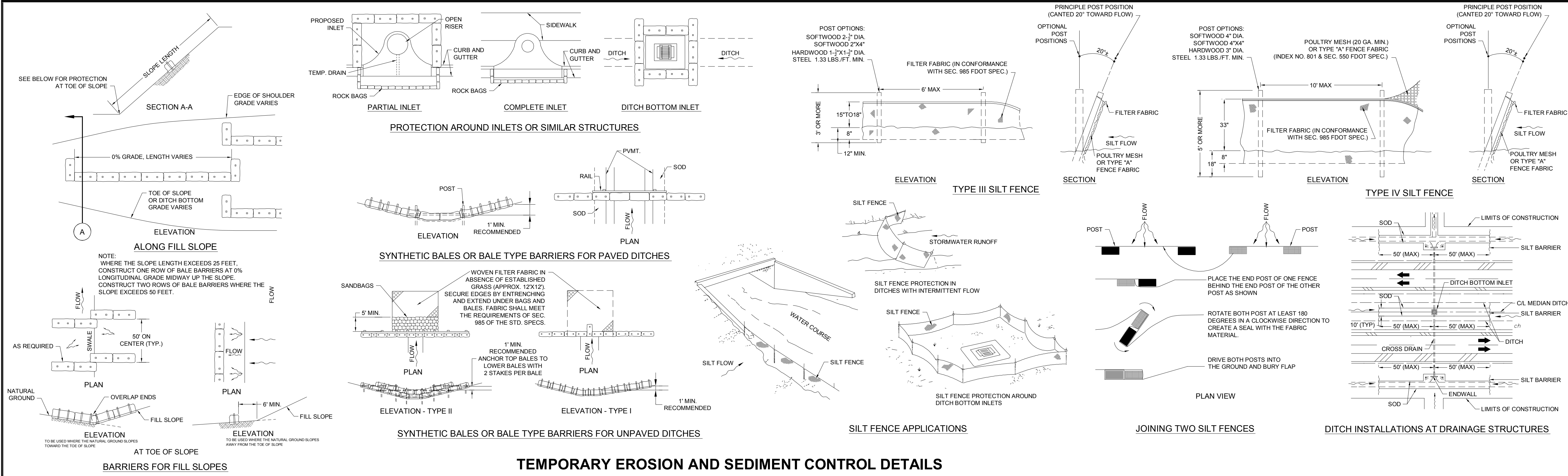
APPROVAL SUBMITTALS PLANS

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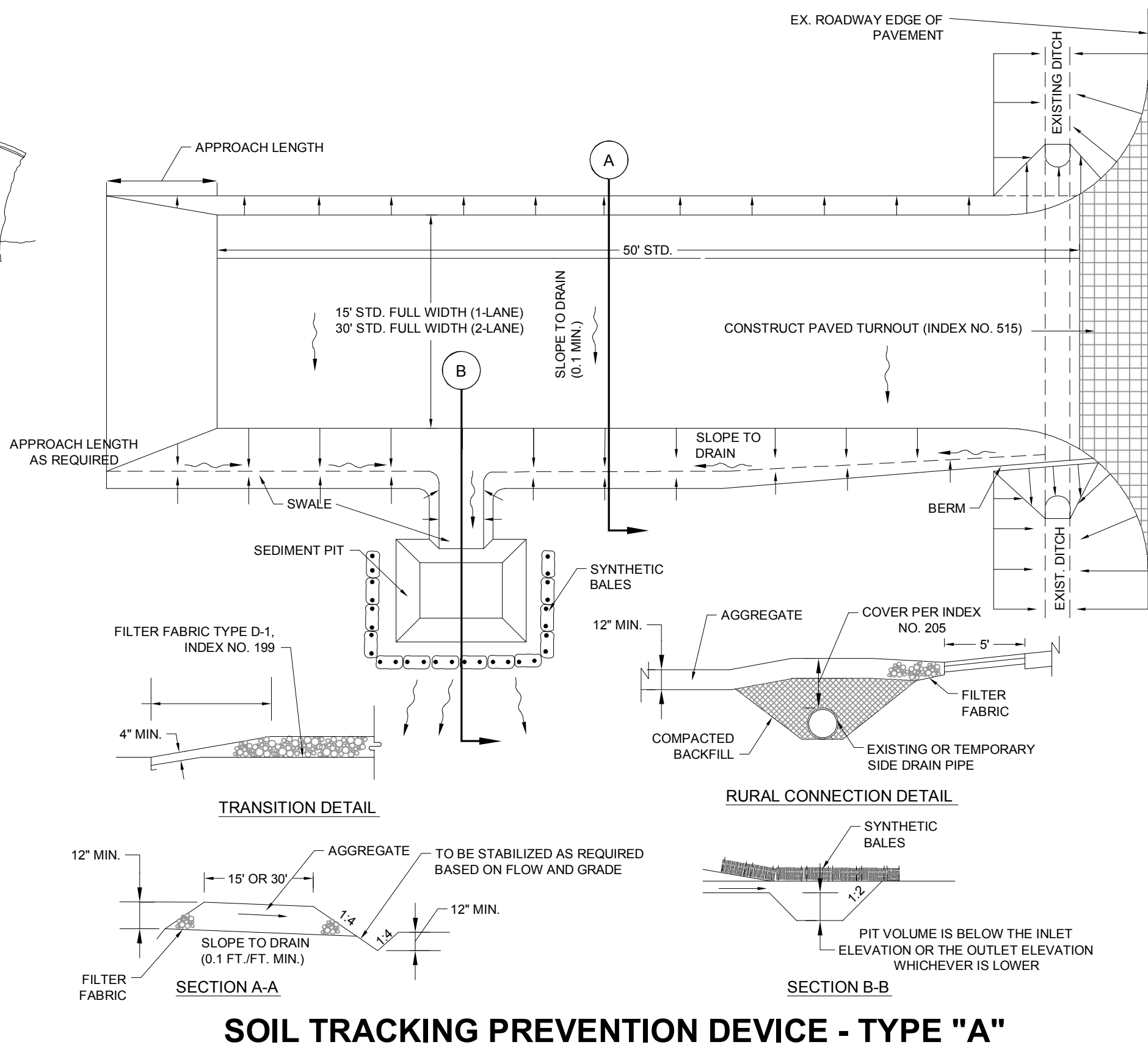
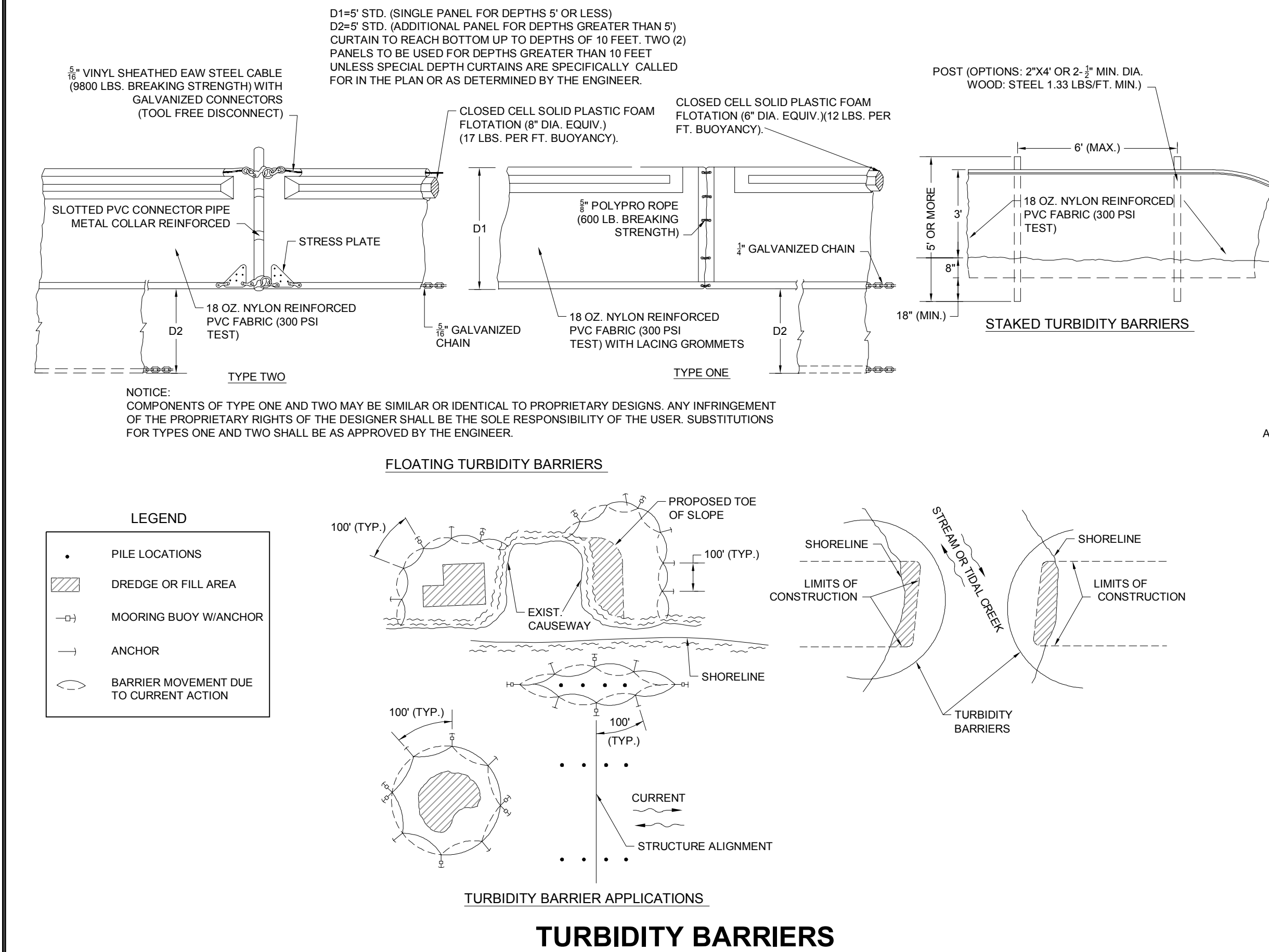
CONTROL STRUCTURE DETAILS

PROJECT / FILE NO. 23416

SHEET NUMBER 9.1



**NOTE: NOT ALL NOTES, DETAILS, SYMBOLS OR OTHER STANDARDS SHOWN ON THIS SHEET MAY BE APPLICABLE TO THIS PROJECT**



- EROSION CONTROL NOTES:**
- PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY APPROPRIATE EROSION CONTROL DEVICES SHALL BE INSTALLED TO CONTROL AND REDUCE SOIL EROSION AND SEDIMENT TRANSPORT TO OFF-SITE AREAS. THE CONTRACTOR SHALL MAINTAIN THESE DEVICES THROUGHOUT THE DURATION OF CONSTRUCTION. ALL DEVICES SHALL REMAIN IN PLACE UNTIL PERMANENT EROSION CONTROL IS ESTABLISHED.
  - THE CONTRACTOR SHALL SUPPLEMENT THIS PLAN AS REQUIRED TO CONTROL AND REDUCE SOIL EROSION BASED ON THE CONTRACTORS MEANS, METHODS AND TECHNIQUE OF CONSTRUCTION. IT IS RECOMMENDED THAT THE CONTRACTOR COMPLY WITH THE LATEST EDITIONS OF THE F.D.O.T. STANDARD SPECIFICATIONS SECTION 104 (PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION) AND THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (THE "EASC MANUAL").
  - THE DETAILS ON THIS SHEET REPRESENT TYPICAL BEST MANAGEMENT PRACTICES FOR SOIL EROSION CONTROL. THEY MAY NOT SATISFY ALL REQUIREMENTS FOR COMPLIANCE WITH REGULATORY AGENCIES AND / OR SPECIFIC PERMIT CONDITIONS AND ALL MAY NOT APPLY TO THIS PROJECT.
  - THE CONTRACTOR AND/OR OWNER SHALL VERIFY THAT THE RESPONSIBLE ENTITY HAS OBTAINED A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (N.P.D.E.S.) GENERAL PERMIT FROM THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (E.P.A.) / F.D.E.P. AND LOCAL REGULATORY AGENCY AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL CREATE, IMPLEMENT AND MAINTAIN A STORMWATER POLLUTION PREVENTION PLAN AS REQUIRED BY THE N.P.D.E.S. GENERAL PERMIT.
  - AREAS LOCATED ADJACENT TO WETLAND / UPLAND PRESERVE AREAS SHALL BE STABILIZED WITH SOD (OR AS CALLED FOR ON DETAILED PLANS) IMMEDIATELY UPON ACHIEVING FINAL GRADE.
  - EROSION CONTROL DEVICES WILL BE INSTALLED ALONG THE BOUNDARY OF THE CONSERVATION AREAS, PRESERVES AND/OR WETLAND AREAS PRIOR TO CONSTRUCTION. THESE DEVICES SHALL BE SILT SCREENS AND, IF NECESSARY, SYNTHETIC BALES. THESE DEVICES SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND THE ADJACENT CONSTRUCTION ZONES ARE ESTABLISHED.
  - CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL METHODS UPON COMPLETION OF SOIL STABILIZATION FOR THE PROJECT. AT THAT TIME THE RESPONSIBLE ENTITY SHALL FILE AN N.P.D.E.S. STORMWATER POLLUTION PREVENTION PLAN NOTICE OF TERMINATION WITH THE F.D.E.P.
  - DURING CONSTRUCTION, INLET OPENINGS, WHERE APPROPRIATE, SHALL BE COVERED WITH FILTER FABRIC (MIRAFI 140N OR APPROVED EQUAL) TO PREVENT DEBRIS FROM FALLING INTO THE INLET.
  - CONTRACTOR SHALL UTILIZE APPROPRIATE METHODS TO CONTROL WIND EROSION AND DUST. ALL AREAS SHALL BE STABILIZED AS NECESSARY TO CONTROL EROSION WITHIN 7 DAYS OF FINAL GRADING.
  - FOR ADDITIONAL EROSION CONTROL DETAILS NOT SHOWN ON THIS PLAN, SEE F.D.O.T. ROADWAY STANDARDS INDEX DRAWINGS.

- CONTRACTOR RESPONSIBILITIES:**
- PREPARE AND SIGN A NOTICE OF INTENT FORM (N.O.I.) AND SUBMIT TO THE REGULATORY AGENCY ALONG WITH ANY REQUIRED FEES AND ATTACHMENTS, OR ASSURE THAT AN N.O.I. HAS BEEN FILED AS REQUIRED.
  - IMPLEMENT THE STABILIZATION, EROSION CONTROL AND OTHER REQUIREMENTS OF THE S.W.P.P.P. / EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN.
  - PROVIDE QUALIFIED INSPECTORS, AND DOCUMENTATION OF QUALIFICATIONS, FOR THE CONTROLS IMPLEMENTED AT THE JOB SITE.
  - CONDUCT ALL NECESSARY INSPECTIONS AT THE REQUIRED INTERVALS AND PREPARE AND RETAIN WRITTEN DOCUMENTATION OF THOSE INSPECTIONS AND ALL OTHER WRITTEN DOCUMENTATION REQUIRED BY THE GENERAL PERMIT.
  - KEEP A COPY OF THE S.W.P.P.P. / EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, ALL N.O.I.'S, PERMIT CERTIFICATES, PERMIT LANGUAGE, SPILL PREVENTION, COUNTERMEASURES, AND CLEANUP (S.P.C.C.) PLAN; INSPECTION RECORDS; AND OTHER REQUIRED RECORDS ON THE JOB SITE AND POST IN A PROMINENT PLACE NEAR THE JOB SITE ENTRANCE THOSE DOCUMENTS REQUIRED TO BE POSTED UNDER THE TERMS OF THE GENERAL PERMIT.
  - CONTRACTOR SHALL PROVIDE MONTHLY TRAINING SESSIONS FOR ALL ENTITIES AND SUBCONTRACTORS INVOLVED WITH INSTALLING, APPLYING, PERFORMING, MAINTAINING AND INSPECTION OF THE S.W.P.P.P. / EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN.
  - UPDATE AND MAKE CHANGES TO THE S.W.P.P.P. / EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND SUPPORTING DOCUMENTS (SUCH AS THE B.M.P.'S AND / OR S.P.C.C.) AS NEEDED AND WITH THE APPROVAL OF THE OPERATOR AND THE OPERATOR'S ENGINEER.
  - PREPARE AND SIGN A NOTICE OF TERMINATION (N.O.T.) FORM WHEN SITE WORK CONSTRUCTION IS COMPLETED AND STABILIZATION IS ACHIEVED. TRANSFER THE S.W.P.P.P. / EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN DOCUMENTS, ALONG WITH ALL N.O.I.'S, PERMIT CERTIFICATES, N.O.T.'S, AND WRITTEN RECORDS REQUIRED BY THE GENERAL PERMIT TO THE OPERATOR FOR ARCHIVING IN BOTH PAPER AND OPTICALLY-SCANNED FORMAT ON A CD.

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LAND PLANNING

[www.barraco.net](http://www.barraco.net)

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FLORIDA CERTIFICATES OF AUTHORIZATION  
ENGINEERING 7995 - SURVEYING LB-6940

PREPARED FOR

**LENNAR**

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10481 BEN C. PRATT / SIX MILE  
CYPRESS PARKWAY  
FORT MYERS, FLORIDA 33966

PHONE (239) 278-1177  
FAX (239) 931-4749

PROJECT DESCRIPTION

**WildBlue**

LEE COUNTY, FLORIDA

ENGINEER OF RECORD

TIMOTHY B. GAVIN, P.E., FOR THE FIRM  
FLORIDA P.E. NO. 70675 - TIMG@BARRACO.NET

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FILE NAME: 23473E50.DWG

LOCATION: J:\23473\DWG\ERP\

PLOT DATE: WED. 12-19-2018 - 2:22 PM

PLOT BY: TIM GAVIN

CROSS REFERENCED DRAWINGS

MASTER = BAI-EROSION-2.DWG

PLAN REVISIONS

PLAN STATUS

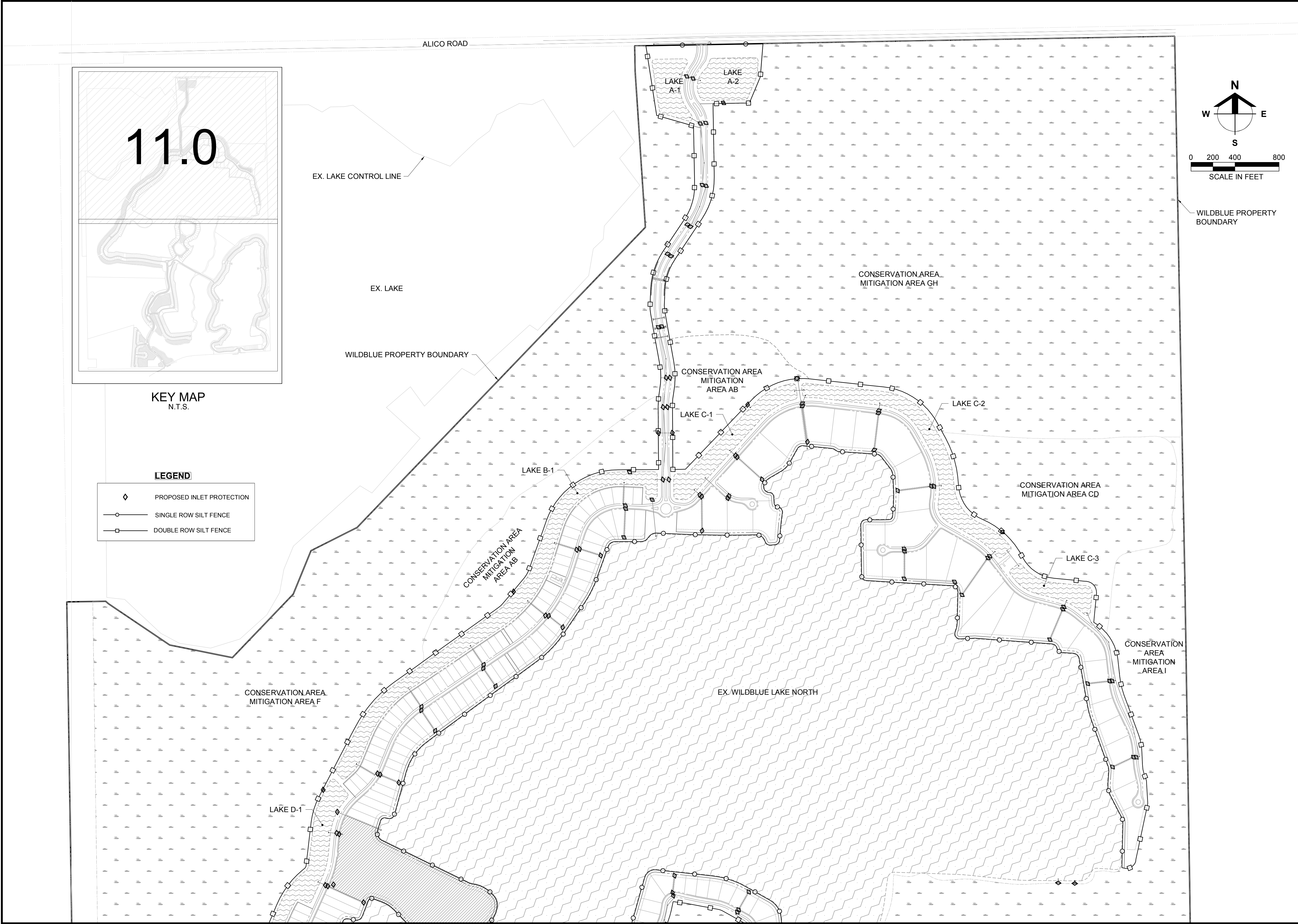
APPROVAL SUBMITTALS PLANS  
NOT FOR CONSTRUCTION

**EROSION  
CONTROL  
DETAILS**

PROJECT / FILE NO. SHEET NUMBER

**23416 10.0**





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PREPARED FOR

PROJECT DESCRIPTION

**WildBlue**

LEE COUNTY, FLORIDA

ENGINEER OF RECORD  
TIMOTHY B. GAVIN, P.E., FOR THE FIRM  
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LOCATION J:\23473\DWG\ERP\  
PLOT DATE WED. 12-19-2018 - 2:22 PM  
PLOT BY TIM GAVIN

CROSS REFERENCED DRAWINGS  
SURVEY = 23372500.DWG

PLAN REVISIONS

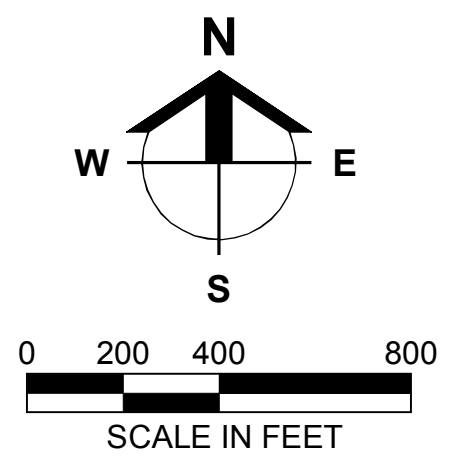
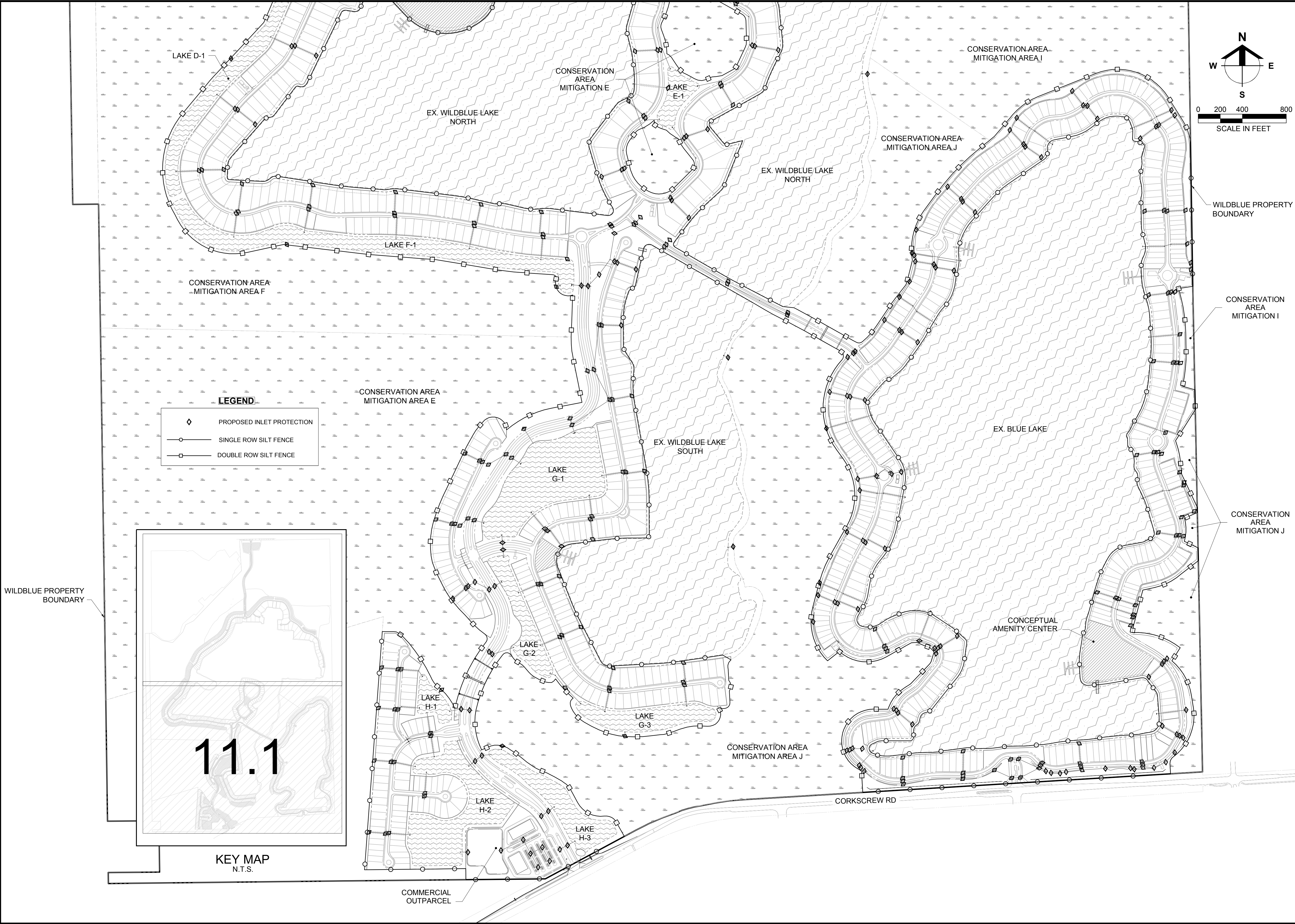
PLAN STATUS

APPROVAL SUBMITTALS PLANS  
NOT FOR CONSTRUCTION

**STORMWATER  
POLLUTION  
PREVENTION PLAN**

PROJECT / FILE NO. **23473**  
SHEET NUMBER **11.0**





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PROJECT DESCRIPTION

LEE COUNTY, FLORIDA

ENGINEER OF RECORD  
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FILE NAME J:\23473\DWG\RP

LOCATION J:\23473\DWG\RP

PLOT DATE WED. 12-19-2018 - 2:22 PM

PLOT BY TIM GAVIN

CROSS REFERENCED DRAWINGS  
SURVEY = 23372500.DWG

PLAN REVISIONS

PLAN STATUS  
APPROVAL SUBMITTALS PLANS  
NOT FOR CONSTRUCTION

STORMWATER  
POLLUTION  
PREVENTION PLAN

PROJECT / FILE NO. 23473

SHEET NUMBER 11.1

## **CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN TEMPLATE**

The following template may be used as a general guide for development of a Stormwater Pollution Prevention Plan (SWPPP) for construction activities. This template may not contain all applicable requirements for all construction sites. Please refer to the Department's Generic Permit for Stormwater Discharge from Large and Small Construction Activities, DEP Document 62-621.300(4)(a) to verify that you are meeting all permit requirements. Part V of the above referenced generic permit specifically lists requirements of the Stormwater Pollution Prevention Plan.

- The SWPPP shall be completed prior to the submittal of the Notice of Intent (NOI) to be covered under the Department's Generic Permit for Stormwater Discharge from Large and Small Construction Activities.
- The SWPPP shall be amended whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on the potential for discharge of pollutants to surface waters of the state or a Municipal Separate Storm Sewer System (MS4). The SWPPP also shall be amended if it proves to be ineffective in significantly reducing pollutants from sources identified in Part V.D.1. of the permit. The SWPPP also shall be amended to indicate any new contractor and/or subcontractor that will implement any measure of the SWPPP. All amendments shall be signed, dated, and kept as attachments to the original SWPPP.

## Stormwater Pollution Prevention Plan

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

\_\_\_\_\_  
Name (Operator and/or Responsible Authority)

\_\_\_\_\_  
Date

|   |   |
|---|---|
| <b>Project Name and location information:</b> | WildBlue<br>Lat. 26 °28' 14.90 " N<br>Long. 81 °44 ' 18.37" W<br>T 46 S, R 26 E, Sec. 7, 8, 18, 19,<br>20 |
|---|---|

**A site map must be developed and must contain, at a minimum, the following information:**

1. Drainage patterns,
2. Approximate slopes after major grading activities,
3. Areas of soil disturbance,
4. Outline all areas that are not to be disturbed,
5. Location of all major structural and non-structural controls,
6. The location of expected stabilization practices,
7. Wetlands and surface waters, and
8. Locations where stormwater may discharge to a surface water or MS4.

### Site Description

|   |  |
|---|--|
| Describe the nature of the construction activity:   | Soil disturbing activities will include: Clearing and grubbing (Including exotic removal), mass earthwork (stockpile embankment), wetland & indigenous species plantings, removal of existing haul trails, installation of drainage culverts, sodding, seeding and mulching.   |
| Describe the intended sequence of major soil disturbing activities:   | <p>The order of activities will be as follows:</p> <ol style="list-style-type: none"> <li>1. Installation of erosion controls.</li> <li>2. Clearing and grubbing (Including exotic removal)</li> <li>3. Mass earthwork (stockpile embankment).</li> <li>4. Removal of existing haul trails.</li> <li>5. Installation of drainage culverts.</li> <li>6. Wetland &amp; Indigenous plantings</li> <li>7. Stabilize areas within 7 days of last construction activity in that area.</li> <li>8. Complete grading and install permanent seeding/sodding.</li> <li>9. When all construction activity is complete and the site is stabilized, remove all temporary earthen berms, synthetic bale barriers and filter fences; re-seed any areas disturbed by their removal.</li> </ol> |
| Total area of the site:   | 2,960.41 Acres   |
| Total area of the site to be disturbed:   | 1,026.98+/- Acres  |
| Existing data describing the soil or quality of any stormwater discharge from the site:   |  |
| Estimate the drainage area size for each discharge point:   | See attached spreadsheet.  |
|   |  |
|   |  |
|   |  |
| Latitude and longitude of each discharge point and identify the receiving water or MS4 for each discharge point:  | See attached spreadsheet.  |
|   | Estero River   |
|   |  |
| <b>Give a detailed description of all controls, Best Management Practices (BMPs) and measures that will be implemented at the construction site for each activity</b> |  |

|  |  |
|--|--|
| <p><b>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 <u>Florida Development Manual: A Guide to Sound Land and Water Management (DEP, 1988)</u> and any subsequent amendments.</b></p>                |  |
| <p>Silt Fence / Synthetic Bale Barrier - will be constructed along those areas of the disturbed area.</p>  |  |
| <p>Temporary Stabilization: Disturbed portions of the site where construction activity will temporarily cease will be stabilized with temporary seed and mulch no later than 7 days from the last construction activity in that area. The seed shall be Bahia, millet, rye, or other fast-growing grasses. Prior to seeding, fertilizer or agricultural limestone shall be applied to each area to be temporarily stabilized. After seeding, each area shall be mulched with the mulch disked into place. Areas of the site which will be paved will be temporarily stabilized by applying limerock until pavement can be applied.</p> |  |
| <p>Permanent Stabilization: Disturbed portions of the site, where construction activities permanently cease, shall be stabilized with sod, seed and mulch, landscaping, and/or other equivalent stabilization measures (e.g., rip-rap, geotextiles) no later than 7 days after the date of the last construction activity. The sod shall typically be Bahia sod. Prior to seeding, fertilizer or agricultural limestone shall be applied to each area to be temporarily stabilized. After seeding, each area shall be mulched with the mulch disked into place.</p>  |  |
| <p><b>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.</b></p>   |  |
| <p>Prior to significant clearing of the site, a temporary berm shall be constructed around the perimeter of the disturbed site. During clearing operations, the site itself shall act as the temporary sediment basin.</p>   |  |

**Describe in detail controls for the following potential pollutants**

|  |   |
|--|---|
| <p>Waste disposal, this may include construction debris, chemicals, litter, and sanitary wastes:</p> | <p><u>Waste Materials:</u></p> <p>All waste materials will be collected and stored in a trash dumpster which will meet all local and State solid waste management regulations. All trash and construction debris from the site will be deposited in this dumpster. The dumpster will be emptied as required due to use and/or State</p> |
|--|---|

|   |   |
|---|---|
|   | <p>and local regulations, with the trash disposed of at the appropriate landfill operation. No construction waste materials will be buried onsite. All personnel will be instructed regarding the correct procedure for waste disposal. Notices stating these practices will be posted in the construction office trailer.</p> <p><u>Hazardous Waste:</u></p> <p>All hazardous waste materials will be disposed of in the manner specified by local or State regulation or by the manufacturer. Site personnel will be instructed in these practices.</p> <p><u>Sanitary Waste:</u></p> <p>All sanitary waste will be collected from the portable units by a local, licensed, sanitary waste management contractor, as required by local or State regulation.</p> |
| Offsite vehicle tracking from construction entrances/exits:   | <p>A stabilized construction entrance may be provided to help reduce vehicle tracking of sediments. Existing paved streets adjacent to the project will be swept as needed to remove any excess muck, dirt, or rock tracked from the site. Dump trucks hauling material from the site will be covered in tarpaulin.</p>   |
| The proper application rates of all fertilizers, herbicides and pesticides used at the construction site: | <p>Fertilizers will be applied by certified and licensed personnel only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to storm water. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.</p>   |
| The storage, application, generation and migration of all toxic substances:                               | <p>The following good housekeeping practices will be followed onsite during the construction project:</p> <ul style="list-style-type: none"> <li>♦ An effort will be made to store only enough product required to do the job.</li> </ul>   |

|        |   |
|--------|---|
|        | <ul style="list-style-type: none"> <li>♦ All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers, and if possible, under a roof or other enclosure.</li> <li>♦ Products will be kept in their original containers with the original manufacturer's label.</li> <li>♦ Substances will not be mixed with one another unless recommended by the manufacturer.</li> <li>♦ Whenever possible, all of a product will be used up before disposing of the container.</li> <li>♦ Manufacturers' recommendations for proper use and disposal will be followed.</li> </ul> <p>The site superintendent will inspect to ensure proper use and disposal of materials onsite.</p> |
| Other: |   |

**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.**

These are the inspection and maintenance practices that will be used to maintain erosion and sediment controls.

- ♦ All control measures will be inspected at least once each week and following any storm event of 0.50 inches or greater.
- ♦ All measures will be maintained in good working order; if a repair is necessary, it shall be corrected as soon as possible, but in no case later than 7 days after the inspection.



- ♦ Built up sediment will be removed from silt fence when it has reached one-third the height of the fence.
- ♦ Silt fence will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence posts, and that the fence posts are firmly in the ground.
- ♦ Temporary seeding and permanent sodding and planting will be inspected for bare spots, washouts, and healthy growth.
- ♦ 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 Owner will appoint one individual who will be responsible for inspections, maintenance and repair activities, and for completing the inspection and maintenance reports.

Personnel selected for inspection and maintenance responsibilities will receive training from the site superintendent. They will be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used onsite in good working order.

**Inspections: Describe the inspection and inspection documentation procedures, as required by Part V.D.4. of the permit. Inspections must occur at least once a week and within 24 hours of the end of a storm event that is 0.50 inches or greater (see attached form).**

Please see above.

**Identify and describe all sources of non-stormwater discharges as allowed in Part IV.A.3. of the permit. Flows from fire fighting activities do not have to be listed or described.**

N/A

**This SWPPP must clearly identify, for each measure identified within the SWPPP, the contractor(s) or subcontractor(s) that will implement each measure. 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.”

| Name | Title | Company Name, Address | Date |
|------|-------|-----------------------|------|
|------|-------|-----------------------|------|



|  |  |                         |  |
|--|--|-------------------------|--|
|  |  | <b>and Phone Number</b> |  |
|  |  |                         |  |
|  |  |                         |  |
|  |  |                         |  |
|  |  |                         |  |
|  |  |                         |  |

## Stormwater Pollution Prevention Plan Inspection Report Form

**Inspections must occur at least once a week and within 24 hours of the end of a storm event that is 0.50 inches or greater.**

Project Name: WildBlue

FDEP NPDES Stormwater Identification Number: FLR\_\_\_\_

| Location | Rain data | Type of control<br>(see below) | Date installed /<br>modified | Current Condition<br>(see below) | Corrective Action / Other Remarks |
|----------|-----------|--------------------------------|------------------------------|----------------------------------|-----------------------------------|
|          |           |                                |                              |                                  |                                   |
|          |           |                                |                              |                                  |                                   |
|          |           |                                |                              |                                  |                                   |
|          |           |                                |                              |                                  |                                   |
|          |           |                                |                              |                                  |                                   |
|          |           |                                |                              |                                  |                                   |

Condition Code:

G = Good

M = Marginal, needs maintenance or replacement soon

P = Poor, needs immediate maintenance or replacement

C = Needs to be cleaned    O = Other

Control Type Codes

|                         |   |                                      |                                   |
|-------------------------|---|--------------------------------------|-----------------------------------|
| 1. Silt Fence           | 10. Storm drain inlet protection        | 19. Reinforced soil retaining system | 28. Tree protection               |
| 2. Earth dikes          | 11. Vegetative buffer strip             | 20. Gabion                           | 29. Detention pond                |
| 3. Structural diversion | 12. Vegetative preservation area        | 21. Sediment Basin                   | 30. Retention pond                |
| 4. Swale                | 13. Retention Pond                      | 22. Temporary seed / sod             | 31. Waste disposal / housekeeping |
| 5. Sediment Trap        | 14. Construction entrance stabilization | 23. Permanent seed / sod             | 32. Dam                           |
| 6. Check dam            | 15. Perimeter ditch                     | 24. Mulch                            | 33. Sand Bag                      |
| 7. Subsurface drain     | 16. Curb and gutter                     | 25. Hay Bales                        | 34. Other                         |
| 8. Pipe slope drain     | 17. Paved road surface                  | 26. Geotextile                       |                                   |
| 9. Level spreaders      | 18. Rock outlet protection              | 27. Rip-rap                          |                                   |

Inspector Information:

\_\_\_\_\_  
Name

\_\_\_\_\_  
Qualification

\_\_\_\_\_  
Date

The above signature also shall certify that this facility is in compliance with the Stormwater Pollution Prevention Plan and the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities if there are not any incidents of non-compliance identified above.

\* \* \* \* \*

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

\_\_\_\_\_  
Name (Responsible Authority)

\_\_\_\_\_  
Date

**Discharge Area****Lat/Longs**

|                 |        |           |               |               |
|-----------------|--------|-----------|---------------|---------------|
| CS-A-1          | 19.4   | CS-A-1    | 26° 29' 31" N | 81° 44' 16" W |
| CS-B-1 & 2      | 64.16  | CS-B-1    | 26° 28' 56" N | 81° 44' 27" W |
| CS-C-1 & 2      | 100.67 | CS-B-2    | 26° 28' 46" N | 81° 44' 37" W |
| CS-D-1 & 2      | 60.68  | CS-C-1    | 26° 29' 3" N  | 81° 44' 13" W |
| CS-F-1 & 2      | 129.58 | CS-C-2    | 26° 28' 52" N | 81° 43' 49" W |
| CS-G-1 & 2      | 106.81 | CS-D-1    | 26° 28' 28" N | 81° 44' 54" W |
| CS-H-1 & 2      | 67.21  | CS-D-2    | 26° 28' 15" N | 81° 45' 5" W  |
| CS-WBLN-1 & 2   | 549.16 | CS-F-1    | 26° 27' 54" N | 81° 45' 0" W  |
| CS-WBLS-1 & 2   | 92.87  | CS-F-2    | 26° 27' 53" N | 81° 44' 37" W |
| CS-BL-1, 2, & 3 | 231.65 | CS-G-1    | 26° 27' 41" N | 81° 44' 38" W |
|                 |        | CS-G-2    | 26° 27' 12" N | 81° 44' 23" W |
|                 |        | CS-H-1    | 26° 27' 16" N | 81° 44' 41" W |
|                 |        | CS-H-2    | 26° 27' 12" N | 81° 44' 34" W |
|                 |        | CS-WBLN-1 | 26° 28' 19" N | 81° 43' 42" W |
|                 |        | CS-WBLN-2 | 26° 28' 10" N | 81° 44' 2" W  |
|                 |        | CS-WBLS-1 | 26° 27' 45" N | 81° 44' 15" W |
|                 |        | CS-WBLS-2 | 26° 27' 29" N | 81° 44' 15" W |
|                 |        | CS-BL-1   | 26° 27' 55" N | 81° 43' 57" W |
|                 |        | CS-BL-2   | 26° 27' 38" N | 81° 44' 6" W  |
|                 |        | CS-BL-3   | 26° 27' 27" N | 81° 44' 6" W  |

## URBAN STORMWATER MANAGEMENT PROGRAM

### 1.0 Introduction

This document provides details of the Urban Stormwater Management Program for WildBlue (Project Name) in Estero, FL 33928 (location). This Plan discusses non-structural controls, intended to improve the quality of stormwater runoff by reducing the generation and accumulation of potential stormwater runoff contaminants at or near the respective sources for each constituent, along with significant structural components of the primary stormwater treatment system. Although many of the methodologies and procedures outlined in this document are general Best Management Practices (BMP's) which can be useful in attenuating pollutants in many types of urbanized settings, the implementation of these practices has been optimized, to the maximum extent possible, to reflect the unique character of the project and the surrounding hydrologic features.

Pollution prevention guidelines are provided for the areas of (1) nutrient and pesticide management; (2) street sweeping; (3) solid waste management; (4) operation and maintenance of the stormwater management and treatment system; (5) routine water quality testing; and (6) construction activities. A discussion of each of these activities is given in the following sections.

### 2.0 Nutrient and Pesticide Management

Nutrient and pesticide management consists of a series of practices designed to manage the use of fertilizers and pesticides so as to minimize loss of these compounds into stormwater runoff and the resulting water quality impacts on adjacent waterbodies. Implementation of a management plan will also maximize the effectiveness of the nutrients and pesticides that are applied.

Each homeowner must commit themselves to the practice of responsible and careful landscape design and maintenance of each lot to prevent contamination of surface waters. The guidelines included in this section are intended to help homeowners make educated environmental choices regarding the maintenance of individual yards within the community. These maintenance and management guidelines are meant to promote an attractive neighborhood that preserves the health of adjacent waterways and environmental features.

#### 2.1 General Requirements

A landscape plan must be developed for each residence. The plan must be comprehensive in nature and follow the landscape design guidelines established by the Homeowners Association and must promote revegetation of each lot as quickly as possible.

Commercial applicators of chemical lawn products must register with the Homeowners Association annually and provide a copy of their current occupational license, proof of business liability insurance, and proof of compliance with applicable education and licensing requirements. Individual employees working under the direction of a licensed commercial applicator are exempt from the educational requirements.

Only registered commercial applicators and individual lot owners are permitted to apply chemicals within the property on a private lot. All chemical products must be used in accordance with the manufacturer's recommendations. The application of any chemical product within five (5) feet of any surface water including but not limited to ponds, lakes, drainage ditches or canals, is prohibited. The use of any chemical product in a manner that will allow airborne or waterborne entry of such products into surface water is prohibited. This rule shall not apply to the use of chemical agents, by certified lake management specialists, for the control of algae and vegetation within the stormwater lakes or ponds.

## **2.2 Nutrient Management Program**

Management and application of nutrients and fertilizers in the Project will adhere to the following guidelines:

- A. All fertilizers shall be stored in a dry storage area protected from rainfall and ponding.
- B. No fertilizer containing in excess of 2% phosphate/phosphorus ( $P_2O_5$ ) per guaranteed analysis label (as defined by Chapter 576, Florida Statutes) shall be applied to turf grass unless justified by a soil test.
- C. Fertilizer containing in excess of 2% phosphate/phosphorus ( $P_2O_5$ ) per guaranteed analysis label shall not be applied within 5 feet of the edge of water or within 5 feet of a drainage facility.
- D. All fertilizer shall be applied such that spreading of fertilizer on all impervious surfaces is minimized.
- E. Liquid fertilizers containing in excess of 2% phosphate/phosphorus ( $P_2O_5$ ) per guaranteed analysis label shall not be applied thorough an irrigation system within 10 feet of the edge of water or within 10 feet of a drainage facility.
- F. Liquid fertilizers containing in excess of 2% phosphate/phosphorus ( $P_2O_5$ ) per guaranteed analysis label shall not be applied through high or medium mist application or directed spray application within 10 feet of the edge of water or within 10 feet of a drainage facility.

## **2.3 Pest Management Program**

Proper maintenance of plants and turf areas will minimize the ability of pests to successfully attack landscaping. Several general guidelines follow:

- A. Apply fertilizer and water only when needed and in moderate amounts. Excessive amounts of either can cause rapid growth that is attractive to insects and disease.
- B. Mow St. Augustine grass to a height of 3-4 inches. If cut shorter, the plants may become stressed and more vulnerable to pest infestation. Each mowing should remove no more than one-third of the leaf blade, and those cuttings should remain on the lawn to decompose.
- C. It is recommended that pesticides, fungicides, and herbicides be used only in response to a specific problem and in the manner and amount recommended by the manufacturer to address the specific problem. Broad application of pesticides, fungicides and herbicides as a preventative measure is strongly discouraged.

The use of pesticides, fungicides, or herbicides is limited to products that meet the following criteria:

- A. Must be consistent with the USDA-NRCS Soil Rating for Selecting Pesticides
- B. Must have the minimum potential for leaching into groundwater or loss from runoff
- C. Products must be EPA-approved
- D. The half-life of products used shall not exceed seventy (70) days

### **3.0 Street Sweeping**

This practice involves sweeping and vacuuming the primary streets to remove dry weather accumulation of pollutants, especially particulate matter, before wash-off of these pollutants can occur during a storm event. This practice reduces the potential for pollution impacts on receiving waterbodies by removing particulate matter and associated chemical constituents. Although street cleaning operations are frequently conducted primarily for aesthetic purposes, the primary objective of the street sweeping program for the project is to improve the quality of stormwater runoff generated from impervious traffic areas. Street sweeping activities can be particularly effective during periods of high leaf fall by removing solid leaf material and the associated nutrient loadings from roadside areas where they could easily become transported within stormwater flow.

Street sweeping operations will be performed in the project at a minimum frequency of one event every other month. A licensed vendor using a vacuum-type sweeping device will perform all street sweeping activities. Sweeping activities during each event will include all primary street surfaces. Disposal of the collected solid residual will be the responsibility of the street sweeping vendor.

### **4.0 Solid Waste Management**

In general, solid waste management involves issues related to the management and handling of urban refuse, litter and leaves that will minimize the impact of these constituents as water pollutants.

Maintenance of adequate sanitary facilities for temporarily storing refuse on private premises prior to collection is considered the responsibility of the individual homeowner. Local requirements for refuse collection will be brought to the attention of every homeowner at closing for the sale of the property. Information will be distributed as necessary stating specifications for containers, separation of waste by type, where to place containers prior to collection, and established collection schedules.

Fallen tree leaves and other vegetation, along with grass clippings, may become direct water pollutants when they are allowed to accumulate in swales and street gutters. All homeowners will receive periodic educational materials that address proper disposal of leaves and other vegetation to minimize water quality impacts.

### **5.0 Stormwater Management and Treatment System**

The stormwater management system for the project is designed to maximize the attenuation of stormwater generated pollutants prior to discharge to the off-site wetland systems. Operational details and maintenance requirements of the various system components are given in the following sections.

#### **5.1 Wet Detention Lakes and Lake Interconnect Pipes**

The basic element of the stormwater management system consists of a series of interconnected wet detention ponds that provide stormwater treatment through a variety of physical, biological, and chemical processes. A wet detention pond acts similar to a natural lake by temporarily detaining stormwater runoff, allowing opportunities for treatment processes to occur, prior to slow controlled discharge of the treated water through the outfall structure. Pollutant removal processes in wet detention systems occur during the quiescent period between storm events. Significant removal processes include gravity settling of particulate matter; biological uptake of nutrients and other ions by aquatic plants, algae and microorganisms; along with natural chemical flocculation and complexation processes. In addition, each pond will be equipped with an Aeration System to help increase the biological function of the stormwater management system.

Maintenance of the wet detention ponds will consist of an annual inspection. During each annual inspection, the following items will be reviewed and corrected as necessary:

- A. Inspect the outfall structure and orifices to ensure free-flowing conditions and overall engineering stability of the outfall system.
- B. Review the banks of the lakes and canals to ensure proper side slope stabilization and inspect for signs of excessive seepage that may indicate areas of excessive groundwater flow and possible subsurface channeling.
- C. Physically evaluate each of the lakes and canals for evidence of excessive sediment accumulation or erosion.
- D. Inspect the planted aquatic vegetation in the littoral zone to ensure that the desired vegetation species, percent coverage, and density are maintained.
- E. Visually Inspect Lake Aeration systems to insure that the blowers are functioning properly, the supply tubing remains submerged with no leaks, and the diffusers are producing uniform bubbles.

At the completion of the inspections, a written inspection report will be prepared, listing any deficiencies that need to be addressed or corrected by the Homeowners Association.

## **5.2 Stormwater Inlets, Pipes and Culverts**

The grates should be unobstructed and the bottom, inside the inlet, should be clean. Check for any accumulation of sediment, trash such as garbage bags, or debris in the culverts connecting these inlets. Flushing out with a high-pressure hose may clean some sediment. Any noted blockage (due to a possible obstruction, or broken pipe, etc.) should prompt further investigation. Crushed or corroded culverts should be replaced with new ones of the same size.

## **5.3 Swales and Grassed Water Storage Areas**

These provide for conveyance and/or above-ground (or surface) storage of stormwater. With age, these areas usually fill in with vegetation and sediment. Swales may need to be regraded and/or re-vegetated. It is a good idea to compare the existing slope and dimensions of the swale with the permitted design plans prior to the removal of excess sediment or regrading. Areas that show erosion should be stabilized with appropriate material such as sod, planting, rock, sand bags, or other synthetic geotextile material.

Regular mowing of grass swales is essential. These areas also improve water quality by catching sediment and assimilating nutrients, and recharge the underground water table. Remove any undesirable exotic vegetation. Culverts underneath driveways should be checked for blockage, and, if necessary, flushed with a high-pressure hose. After a storm, swales may remain wet for an extended period of time. This is normal and the water will recede gradually.

## **5.4 Ditches or Canals**

Fill material, yard waste, clippings and vegetation, sediment, trash, appliances, garbage bags, shopping carts, tires, cars, etc. should be completely removed. Also check to make sure there are no dead trees or any type of obstructions which could block the drainage flow way.

Maintenance cleaning/excavation must be limited to the same depth, width and side slope as approved in the current permit. Making a ditch deeper or wider may trigger a need for a permit modification. Provisions must also be made to prevent any downstream silting or turbidity (*Contact the SFWMD Resource Compliance staff if you are unsure or need*

*clarification.*) Be sure to dispose of all removed material properly so it won't affect any other water storage or conveyance system, environmental area, or another owner's property.

#### **5.5 Outfall Structure (also called the Discharged Control Structure or Weir)**

The outfall structure should be routinely inspected to determine if any obstructions are present or repairs are needed. Trash or vegetation impeding water flow through the structure should be removed. The structure should have a "baffle" or trash collector to prevent flow blockage and also hold back any floating oils from moving downstream. Elevations and dimensions should be verified annually with all current permit information. Periodic inspections should then be regularly conducted to make sure these structures maintain the proper water levels and the ability to discharge.

#### **5.6 Earthen Embankments (Dikes and Berms)**

Check for proper elevations, width and stabilization. Worn down berms - especially if used by all-terrain vehicles or equestrian traffic - and rainfall - created washouts should be immediately repaired, compacted and re-vegetated.

### **6.0 Construction Activities**

A Stormwater Pollution Prevention Plan (SWPPP) has been prepared for construction activities to minimize activities contamination that may be caused by erosion and sedimentation during the construction process. The plan includes provisions related to soil stabilization, structural erosion controls, waste collection disposal, offsite vehicle tracking, spill prevention and maintenance and inspection procedures. A copy of the SWPPP is attached hereto and made a part of hereof.



## LAND USE SUMMARY COMPARISON

| APP # 180713-10          |                    |
|--------------------------|--------------------|
| CONSTRUCTION & OPERATION |                    |
| LAND USE                 | BASIN H<br>(ACRES) |
| RESIDENTIAL TRACTS       |                    |
| PAVEMENT                 | 7.36               |
| ROOF                     | 9.07               |
| OPEN SPACE               | 22.17              |
| LAKE                     | 20.33              |
| DRY DETENTION            | 1.20               |
| PRESERVE AREA            | 0.00               |
| TOTAL                    | 60.13              |
| COMMERCIAL TRACTS        |                    |
| PAVEMENT                 | 3.34               |
| ROOF                     | 0.92               |
| OPEN SPACE               | 2.82               |
| TOTAL                    | 7.08               |
| TOTAL (C&O)              | 67.21              |
|                          |                    |
| TOTAL (PROJECT)          | 67.21              |

| CURRENT APP # 181221-2   |                    |
|--------------------------|--------------------|
| CONSTRUCTION & OPERATION |                    |
| LAND USE                 | BASIN H<br>(ACRES) |
| RESIDENTIAL TRACTS       |                    |
| PAVEMENT                 | 7.36               |
| ROOF                     | 9.07               |
| OPEN SPACE               | 23.15              |
| LAKE                     | 17.84              |
| DRY DETENTION            | 2.71               |
| PRESERVE AREA            | 0.00               |
| TOTAL                    | 60.13              |
| COMMERCIAL TRACTS        |                    |
| PAVEMENT                 | 3.34               |
| ROOF                     | 0.92               |
| OPEN SPACE               | 2.82               |
| TOTAL                    | 7.08               |
| TOTAL (C&O)              | 67.21              |
|                          |                    |
| TOTAL (PROJECT)          | 67.21              |

## STAFF REPORT DISTRIBUTION LIST

WILDBLUE SOUTHWEST

**Application No:** 181221-2

**Permit No:** 36-05075-P-05

### **INTERNAL DISTRIBUTION**

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### **GOVERNMENT AGENCIES**

- X Div of Recreation and Park - District 4 - Chris Becker, FDEP
- X US Army Corps of Engineers Permit Section

### **OTHER INTERESTED PARTIES**

- X Audubon of Florida - Charles Lee