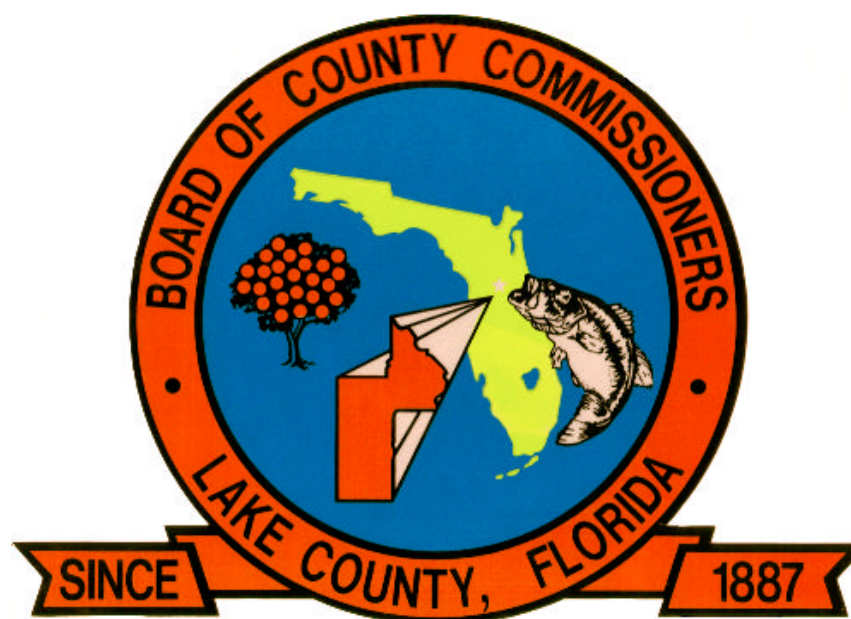


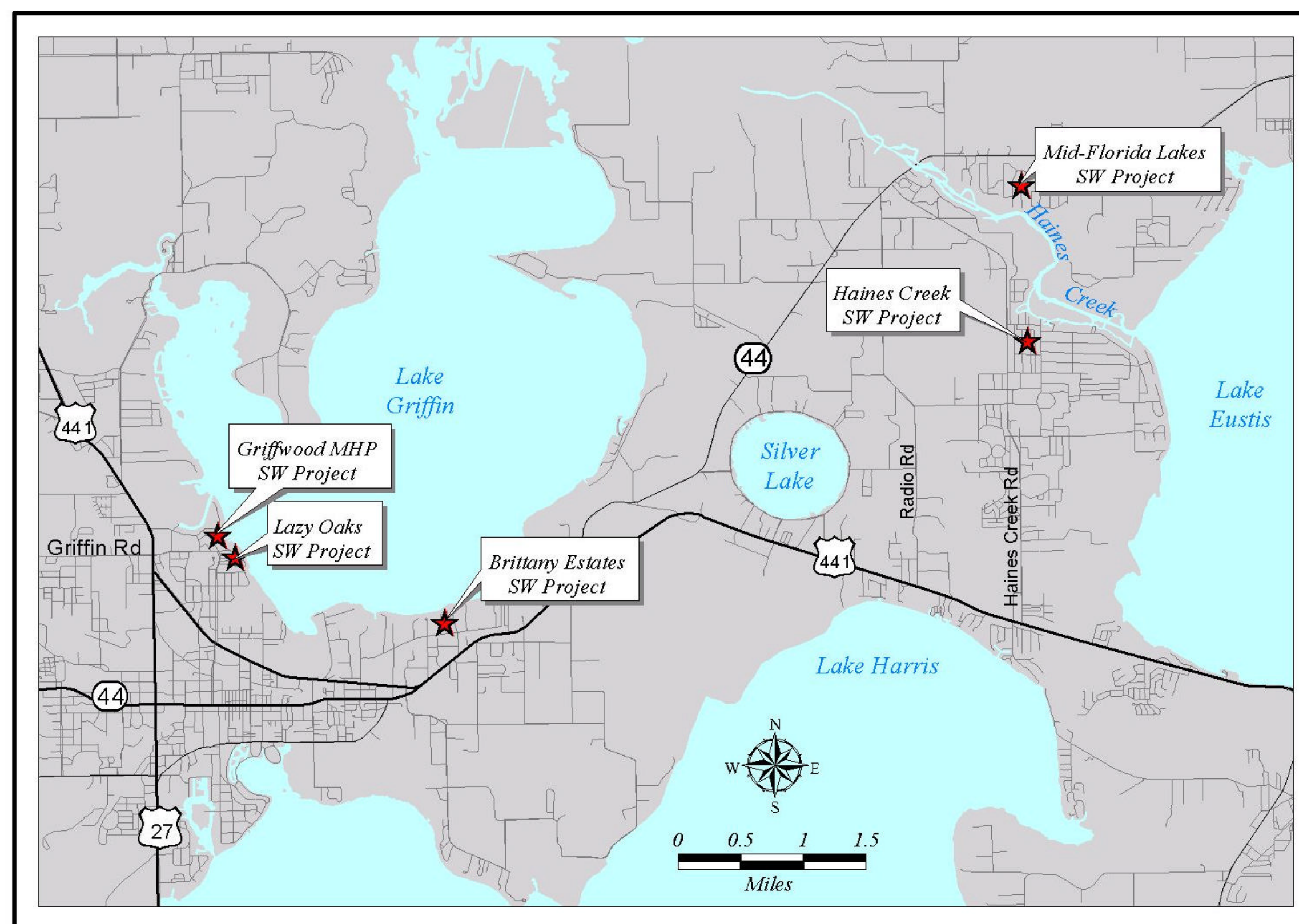
# ENGINEERING PLANS FOR:



# LAKE GRIFFIN STORMWATER MANAGEMENT PROJECT

LAKE COUNTY, FLORIDA

BCI PROJECT NUMBER: 12-11830



*S I T E L O C A T I O N M A P*  
LAKE COUNTY, FLORIDA

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← CHECK MARK = SHEET INCLUDED IN THIS SET

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

### ENGINEER CERTIFICATION

I hereby certify that I am a registered professional engineer in the State of Florida practicing with BCI Engineers & Scientists, Inc., a Corporation, authorized to operate as an engineering business, EB 0007867, by the State of Florida Department of Professional Regulation, Board of Professional Engineers, and that I, or others under my direct supervision, have prepared or approved the evaluations, findings, opinions, calculations, conclusions, or technical advice hereby represented by these drawings.

PLANS PREPARED BY:



CONTRACTOR IS TO VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.



SIGNATURE: \_\_\_\_\_  
NAME: TIMOTHY J. KELLY  
P.E. NUMBER: 44721  
DATE: \_\_\_\_\_

**GENERAL CONSTRUCTION NOTES**

- LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THIS WORK PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL CHECK PLANS AND FIELD CONDITIONS FOR CONFLICTS AND DISCREPANCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER'S ENGINEER OF ANY CONFLICT BEFORE PERFORMING ANY WORK IN THE AFFECTED AREA.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSTRUCTION.
- ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO SHALL BE OF LATEST REVISIONS AND/OR LATEST EDITION.
- ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK, INCLUDING LANDSCAPING.
- CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER'S ENGINEER SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO BE USED ON THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. ENGINEER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE CONTRACTOR'S RESPONSIBILITY FOR PERFORMANCE OF THE ITEM.
- WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY WITH OTHER CONTRACTOR'S AND UTILITY COMPANIES.
- BACKFILL MATERIAL SHALL BE SOLIDLY TAMPED AND COMPACTED TO A FIRMNESS EQUAL TO THAT OF THE SOIL ADJACENT TO THE TRENCH AROUND PIPES IN 6" LAYERS UP TO AN UNDISTURBED LEVEL OF AT LEAST 1' ABOVE THE TOP OF THE PIPE. IN AREAS TO BE PAVED, BACKFILL SHALL BE COMPACTED TO 100% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.
- CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF AT LEAST 3,000 P.S.I. IN 28 DAYS, UNLESS OTHERWISE NOTED, SPECIFIED OR REQUIRED.
- REINFORCING SHALL BE BILLET STEEL BARS CONFORMING TO ASTM A615 GRADE 40 OR BETTER.
- MATERIALS AND CONSTRUCTION METHODS FOR STREETS AND STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY AND THE FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1994, OR LATEST REVISION THEREOF AND SUPPLEMENTAL SPECIFICATIONS THERETO.
- ALL PIPE NOTED ON THE PLANS AS RCP SHALL BE REINFORCED CONCRETE PIPE, CLASS III, WITH RUBBER GASKET JOINTS.
- REPAIR AND REPLACEMENT OF ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS BEFORE COMMENCING CONSTRUCTION WORK UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. ADDITIONAL COSTS ARE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
- RECORD DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING INFORMATION ON A SET OF THE APPROVED PLANS CONCURRENTLY WITH CONSTRUCTION PROGRESS. WITHIN TWO WEEKS FOLLOWING FINAL INSPECTION THE CONTRACTOR SHALL SUBMIT ONE SET OF RECORD DRAWINGS TO THE ENGINEER OF RECORD. THE FINAL RECORD DRAWINGS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
  - DRAWINGS TO BE LEGIBLY MARKED TO RECORD ACTUAL CONSTRUCTION.
  - DRAWINGS SHALL SHOW ACTUAL LOCATION OF ALL UTILITIES, AND RELATED APPURTENANCES, BOTH ABOVE AND BELOW GROUND. ALL CHANGES TO PIPING LOCATION INCLUDING HORIZONTAL & VERTICAL LOCATIONS OF UTILITIES & APPURTENANCES SHALL BE CLEARLY SHOWN AND REFERENCED TO PERMANENT SURFACE IMPROVEMENTS. DRAWINGS SHALL ALSO SHOW ACTUAL INSTALLED PIPE MATERIAL, ETC.
  - DRAWINGS SHALL CLEARLY SHOW ALL FIELD CHANGES OF DIMENSION AND DETAIL INCLUDING CHANGES MADE BY FIELD ORDER OR BY CHANGE ORDER.
  - DRAWINGS SHALL CLEARLY SHOW ALL DETAILS NOT ON ORIGINAL CONTRACT DRAWINGS BUT CONSTRUCTED IN THE FIELD. ALL EQUIPMENT AND PIPING RELOCATION SHALL BE CLEARLY SHOWN.
  - LOCATIONS OF ALL MANHOLES, HYDRANTS, VALVES, & VALVE BOXES SHALL BE SHOWN.
  - THE CONTRACTOR SHALL PROVIDE CERTIFIED RECORD DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR. THE RECORD DRAWINGS SHALL SHOW FINAL GRADES AND LOCATIONS ON ALL UTILITIES INCLUDING THE SANITARY SEWER, WATER, PRODUCT PIPING, AND STORM WATER COLLECTION SYSTEM (I.E. PIPES, INLETS, AND PONDS). THE CONTRACTOR SHALL PROVIDE TEN COPIES OF THE CERTIFIED RECORD DRAWINGS TO THE ENGINEER.
- CLASS "B" TYPE 1 BEDDING SHALL BE USED UNLESS INDICATED OTHERWISE ON THE DRAWINGS, OR BY THE ENGINEER.
- SOILS ENGINEER TO SUPPLY THE DESIGN ENGINEER WITH A PHOTOCOPY OF ALL COMPACTION TESTS, ASPHALT RESULTS, AND CONCRETE RESULTS THE SOILS ENGINEER IS TO CERTIFY TO THE DESIGN ENGINEER IN WRITING THAT ALL TESTING REQUIREMENTS REQUIRED BY THE LOCAL REGULATORY AGENCY AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) FOR THE IMPROVEMENTS AS REQUIRED BY THE ENGINEERING CONSTRUCTION DRAWINGS FOR THE ON-SITE HAVE BEEN SATISFIED.
- CONTRACTOR SHALL REVIEW SOIL REPORTS AND BORINGS PRIOR TO BIDDING THE PROJECT AND COMMENCING CONSTRUCTION.
- IRRIGATION SYSTEM SHALL HAVE COLOR CODED PIPING AND LABELING ON THE PIPE TO ENSURE DIFFERENTIATION FROM POTABLE WATER PIPING.
- AT LEAST 3 WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND APPROPRIATE AGENCIES AND SUPPLY THEM WITH ALL REQUIRED SHOP DRAWINGS, THE CONTRACTOR'S NAME, STARTING DATE, PROJECTED SCHEDULE, AND OTHER INFORMATION AS REQUIRED. ANY WORK PERFORMED PRIOR TO NOTIFYING THE ENGINEER OR WITHOUT AGENCY INSPECTOR PRESENT MAY BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- OWNER SPECIFIC SPECIFICATIONS TO BE PROVIDED TO CONTRACTOR DURING BIDDING.
- CONTRACTOR SHALL ADHERE TO THE FOLLOWING DETAILS, STANDARDS, REGULATIONS, AND ORDINANCES: COUNTY PUBLIC WORKS DEPARTMENT, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, FLORIDA DEPARTMENT OF TRANSPORTATION, ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
- ALL SITE WORK SHALL CONFORM TO THE LATEST S.J.R.W.M.D., F.D.O.T., CITY AND COUNTY REGULATIONS, SPECIFICATIONS, AND GUIDELINES.

**SAFETY NOTES**

- DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, THE CONTRACTOR SHALL COMPLY WITH REGULATIONS, THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF ITS PERSONNEL. LABOR SAFETY REGULATIONS SHALL BE AS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF LABOR.
- THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS SHALL BE FOLLOWED IN THE DESIGN APPLICATION, INSTALLATION, MAINTENANCE, AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES, AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKERS FROM HAZARDS WITHIN THE PROJECT LIMITS.
- ALL TRAFFIC CONTROL, MARKINGS, FLAGGERS, AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.
- IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.

**STANDARD UTILITY NOTES**

- CHAPTER 77-153 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES AT MINIMUM 48 HOURS PRIOR TO EXCAVATING. MAPS SHOW ONLY THE APPROXIMATE LOCATION OF GAS MAINS AND DO NOT SHOW SERVICE LINES. THE ONLY SAFE AND PROPER WAY TO LOCATE EITHER MAINS OR SERVICE LINES IS BY AN ON-SITE INSPECTION BY THE RESPECTIVE GAS PERSONNEL. THEREFORE, EXCAVATORS ARE INSTRUCTED TO TELEPHONE THE RESPECTIVE GAS COMPANY TWO WORKING DAYS BEFORE ENTERING A CONSTRUCTION AREA.
- ALL UNDERGROUND UTILITIES MUST BE IN PLACE, TESTED AND INSPECTED AS REQUIRED PRIOR TO BASE AND SURFACE CONSTRUCTION.
- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE VARIOUS UTILITY COMPANIES IN ORDER TO PERMIT MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION, BY CALLING FLORIDA SUNSHINE STATE ONE CALL CENTER OF FLORIDA, INC. AT 1-800-432-4770. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY "SUNSHINE" FORTY-EIGHT (48) HOURS PRIOR TO ANY CLEARING OF CONSTRUCTION TO IDENTIFY ALL UTILITY LOCATIONS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES TO DISCONNECT OR REMOVE THEIR FACILITIES PRIOR TO REMOVING OR DEMOLISHING ANY EXISTING STRUCTURES FROM THE SITE.
 

ALL UTILITIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, THE FOLLOWING SHOULD BE CONTACTED BY THE CONTRACTOR:

  - GAS
  - TELEPHONE
  - CABLE
  - POWER
  - CITY/COUNTY WATER AND SEWER
  - CITY/COUNTY/STATE TRAFFIC SIGNAL UTILITY (FIBER, HARDWARE TRAFFIC SIGNAL INTERCONNECT)

PROGRESS ENERGY CONTACT:  
 BEN A. DRIVER  
 2710 DAVID WALKER DR.  
 ELUSTIS, FL 32728  
 PHONE (352)589-0771  
 FAX (352)589-0729

THE FOLLOWING PROJECT LOCATIONS APPEAR TO HAVE DEFINITE CROSSINGS WITH PROGRESS ENERGY POWER LINES AND REQUIRE THE ADVANCE NOTICE FOR REPRESENTATIVES TO BE ON-SITE DURING CONSTRUCTION.  
 NO EXCAVATION SHALL OCCUR WITHIN TEN (10') OF POWERLINES WITHOUT THE PRESENCE OF PROGRESS ENERGY REPRESENTATIVES: S-10, S-12, S-14, S-15, AND S-17.
- THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION'S OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFACE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANIES AND THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES DURING RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.

**PAVING AND GRADING NOTES**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND SHALL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. TRENCHES SHALL BE KEPT DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED. DEWATERING SHALL BE USED AS REQUIRED, AND PERMITTED THROUGH LOCAL GOVERNMENTAL AGENCIES AND WATER MANAGEMENT DISTRICT PER CURRENT REGULATIONS.
- PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
- REFER TO THE LATEST EDITION OF FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS" FOR DETAILS AND SPECIFICATIONS OF ALL FDOT TYPE CURBING AND GUTTERS CALLED FOR ON THESE PLANS.
- IT MAY BE NECESSARY TO FIELD ADJUST PAVEMENT ELEVATIONS TO PRESERVE THE ROOT SYSTEMS OF TREES SHOWN TO BE SAVED. CONTRACTOR TO COORDINATE WITH OWNER'S ENGINEER PRIOR TO ANY ELEVATION CHANGES.
- PRIOR TO CONSTRUCTION OF CONCRETE PAVEMENT, THE CONTRACTOR IS TO SUBMIT A PROPOSED JOINTING PATTERN TO THE OWNER'S ENGINEER FOR REVIEW.
- CONTRACTOR TO PROVIDE A 1/2" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND ANY STRUCTURE.
- ALL PAVEMENT MARKINGS SHALL BE MADE WITH PERMANENT THERMOPLASTIC AND SHALL CONFORM TO FDOT STANDARD INDEX NO. 17346, SHEETS 1-7. PARKING STALL STRIPING TO BE 4" WIDE PAINTED STRIPES. ON-SITE STRIPE COLOR SHALL BE WHITE EXCEPT AS SHOWN ON THE ENGINEERING PLANS. PARKING STALL STRIPING SHALL BE COMPATIBLE WITH THE PAVEMENT TYPE (I.E. CONCRETE, ASPHALT) AND SPECIFICATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
- CONTRACTOR SHALL TRIM, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
- CONTRACTOR SHALL INSTALL STORM PIPING AND CULVERTS IN ACCORDANCE WITH FDOT INDEX 205 AND PLACE EXTRA BASE MATERIAL WHEN THE DISTANCE BETWEEN THE PAVEMENT ELEVATION AND THE TOP OF THE PIPE OR BELL IS LESS THAN TWELVE (12) INCHES.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SOILS ENGINEER. TESTS WILL BE REQUIRED PURSUANT TO THE TESTING SCHEDULE REQUIRED BY APPLICABLE REGULATORY AGENCIES AND AS MAY BE FOUND IN THE ENGINEERING CONSTRUCTION DRAWINGS. CONTRACTOR TO VERIFY ALL TESTING WITH THE OWNER PRIOR TO COMMENCING CONSTRUCTION. UPON COMPLETION OF THE WORK, THE SOILS ENGINEER MUST SUBMIT TO THE OWNER'S ENGINEER CERTIFICATIONS STATING THAT ALL REQUIREMENTS HAVE BEEN MET.

**ABBREVIATIONS**

THE FOLLOWING LIST CONTAINS ABBREVIATIONS USED IN THIS SET OF DRAWINGS. NOTE: ALL ABBREVIATIONS MAY NOT BE SHOWN HERE.

- DBI = DITCH BOTTOM INLET
- INV. = INVERT
- DEMO. = DEMOLITION
- APPROX. = APPROXIMATE
- DET. = DETAIL
- ASPH. = ASPHALT
- RD. = ROAD
- ROOF DRAIN
- R = RIGHT
- R.C.P. = REINFORCED CONCRETE PIPE
- BLDG. = BUILDING
- CON. = CONDUIT
- B.M. = BENCH MARK
- REINF. = REINFORCING
- B.O.C. = BACK OF CURB
- LF = LINEAR FEET
- TEL. = TELEPHONE
- GR. = GRADE
- EL. = ELEVATION
- TOB = TOP OF BERM
- ENGR. = ENGINEER
- TSM =
- TWS =
- COMM. = COMMUNICATION
- CONC. = CONCRETE
- COND. = CONDUIT (ELECTRIC, TELEPHONE)
- CONST. = CONSTRUCT
- V.B. = VAPOR BARRIER
- FDOT = FLORIDA DEPARTMENT OF TRANSPORTATION
- F.H. = FIRE HYDRANT
- UG = UNDERGROUND ELEC.
- TV = TELEVISION CABLE
- UT = UNDERGROUND TELEPHONE CABLE

**CLEARING AND EROSION CONTROL NOTES**

- PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN ON THE CONSTRUCTION PLANS SHALL BE PROTECTED IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY'S TREE ORDINANCE AND DETAILS CONTAINED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREES SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE OWNER. ONLY "GRADING BY HAND" IS PERMITTED WITHIN THE CANOPY LINE OF TREES THAT ARE TO REMAIN.
- THE CONTRACTOR IS TO PREPARE THE SITE PRIOR TO BEGINNING ACTUAL CONSTRUCTION IN ACCORDANCE WITH THE SOILS TESTING REPORT. COPIES OF THE SOILS REPORT ARE AVAILABLE THROUGH THE OWNER OR THE SOILS TESTING COMPANY. QUESTIONS REGARDING SITE PREPARATION REQUIREMENTS DESCRIBED IN THE SOILS REPORT ARE TO BE DIRECTED TO THE SOILS TESTING COMPANY.
- CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS WILL BE SEEDED, MULCHED, OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL AS SOON AS GRADING IS COMPLETED AND/OR IS PRACTICABLE. AREAS ANTICIPATED BEING LEFT DISTURBED OR DENuded FOR LONGER THAN 21 DAYS WILL BE STABILIZED WITH TEMPORARY STABILIZATION WITHIN 14 DAYS OF DISTURBANCE. NO AREAS SHALL BE LEFT OR DISTURBED OR DENuded FOR LONGER THAN 21 DAYS.
- ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
- CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS FOR REMOVING ANY EXISTING STRUCTURES.
- CONTRACTOR TO OBTAIN SITE CLEARING & TREE REMOVAL PERMIT PRIOR TO INSTALLATION OF ANY UNDERGROUND UTILITIES AND CLEARING THE SITE.
- PROTECTION OF EXISTING STORM SEWER SYSTEMS: DURING CONSTRUCTION, ALL STORM SEWER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
- ALL DISTURBED AREAS WHICH ARE NOT TO BE SODDED ARE TO BE SEED, MULCHED AND WATERED TO FOOT STANDARDS AND MAINTAINED UNTIL A SATISFACTORY STAND OF GRASS ACCEPTABLE TO THE REGULATORY AGENCY AND ENGINEER HAVE BEEN OBTAINED. ANY WASHOUTS, REGRADING, AND GRASSING WORK, AND OTHER EROSION WORK REQUIRED, WILL BE PERFORMED BY THE CONTRACTOR UNTIL THE SYSTEM IS ACCEPTED FOR MAINTENANCE BY THE REGULATORY AGENCY AND ENGINEER.
- CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (STRAW BALE, TURBIDITY BARRIER OR STAKED SILT FENCE) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, AND EXISTING WETLANDS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. PLANS AND DETAILS ARE THE MINIMUM REQUIRED. ADDITIONAL CONTROLS ARE TO BE UTILIZED AS NEEDED, DEPENDENT UPON ACTUAL SITE CONDITIONS AND CONSTRUCTION OPERATION. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO RECOVER SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.
- IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION, OR OTHER ACCEPTABLE METHODS.
- THERE SHALL BE NO DISCHARGE (I.E. PUMPING, SHEET FLOW, SWALE, DITCH, ETC.) INTO EXISTING LAKE SYSTEM, WETLAND, OR RIVER, WITHOUT THE USE OF SETTLING PONDS. IF THE CONTRACTOR DESIRES TO DISCHARGE INTO THE EXISTING LAKE SYSTEM OR RIVER, A SETTLING POND PLAN MUST BE SUBMITTED AND APPROVED BY THE ENGINEER AND LOCAL REGULATORY AGENCY PRIOR TO CONSTRUCTION.

**DRAINAGE SYSTEM NOTES**

- STANDARD INDEXES REFER TO THE LATEST EDITION OF FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS".
- ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE CLASS III (ASTM C-76) UNLESS OTHERWISE NOTED ON PLANS. ALL DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS UNLESS OTHERWISE NOTED ON PLANS.
- PIPE LENGTHS SHOWN ARE APPROXIMATE AND TO THE CENTER OF DRAINAGE STRUCTURES WITH THE EXCEPTION OF MITERED END AND FLARED END SECTIONS WHICH ARE INCLUDED IN LENGTHS.
- ALL DRAINAGE STRUCTURE GRATES AND COVERS WITHIN TRAFFIC AREAS SHALL BE TRAFFIC RATED FOR H-20 LOADINGS.
- CONTRACTOR TO SOD THE STORMWATER MANAGEMENT POND AS INDICATED ON PLANS WITHIN ONE (1) WEEK FOLLOWING CONSTRUCTION OF THE POND.
- THE STORM DRAINAGE PIPING AND FILTRATION SYSTEM SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. THE CONTRACTOR SHALL COORDINATE A FINAL INSPECTION OF THE COMPLETED STORM WATER MANAGEMENT SYSTEM PRIOR TO FINAL ACCEPTANCE BY THE OWNER. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION.
- CONTRACTOR SHALL KEEP EXFILTRATION SYSTEMS OFF-LINE FROM STORMWATER RUNOFF UNTIL CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS ARE FULLY STABILIZED. FAILURE TO DO SO WILL RESULT IN REMOVAL AND FULL RECONSTRUCTION OF THE SYSTEM AT THE CONTRACTOR'S EXPENSE.
- TRENCH DRAIN GRATES AND INLET GRATES SHALL BE CAPABLE OF CAPTURING LEAVES. FASTENERS AND FITTING SHALL BE STAINLESS STEEL. SHOP DRAWINGS FOR THE TRENCH DRAINS, GRATES AND ALL GRATE SCREENING SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL BY THE COUNTY.

**TRAFFIC CONTROL**

CONTRACTOR WILL BE REQUIRED TO MINIMIZE DISTURBANCE OF TRAFFIC PATTERNS WITHIN THE DEVELOPMENTS AT THE PRE-CONSTRUCTION MEETING THE CONTRACTOR MUST PROVIDE A PROPOSED TRAFFIC CONTROL PLAN AND CONSTRUCTION SCHEDULE FOR EACH PROJECT SITE DEVELOPMENT FOR REVIEW, COMMENT AND ULTIMATELY APPROVAL BY THE COUNTY. OBSTRUCTION TO ACCESS TO INDIVIDUAL LOT DRIVEWAYS SHALL BE LIMITED TO ONE DAY.

**COORDINATION WITH PROPERTY OWNERS**

CONTRACTOR WILL BE REQUIRED TO COORDINATE WITH THE PROPERTY OWNER REPRESENTATIVES FOR MATERIAL STAGING, NOTIFICATIONS OF ROAD CLOSURES (48 HOURS OR MORE NOTICE) AND LANDSCAPE ISSUES SUCH AS TREE LOCATIONS. A COPY OF CONTACTS WILL BE PROVIDED TO THE CONTRACTOR PRIOR TO PRE-CONSTRUCTION MEETINGS.

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**LAKE COUNTY  
 LAKE GRIFFIN STORMWATER MANAGEMENT PROJECT  
 GENERAL NOTES**

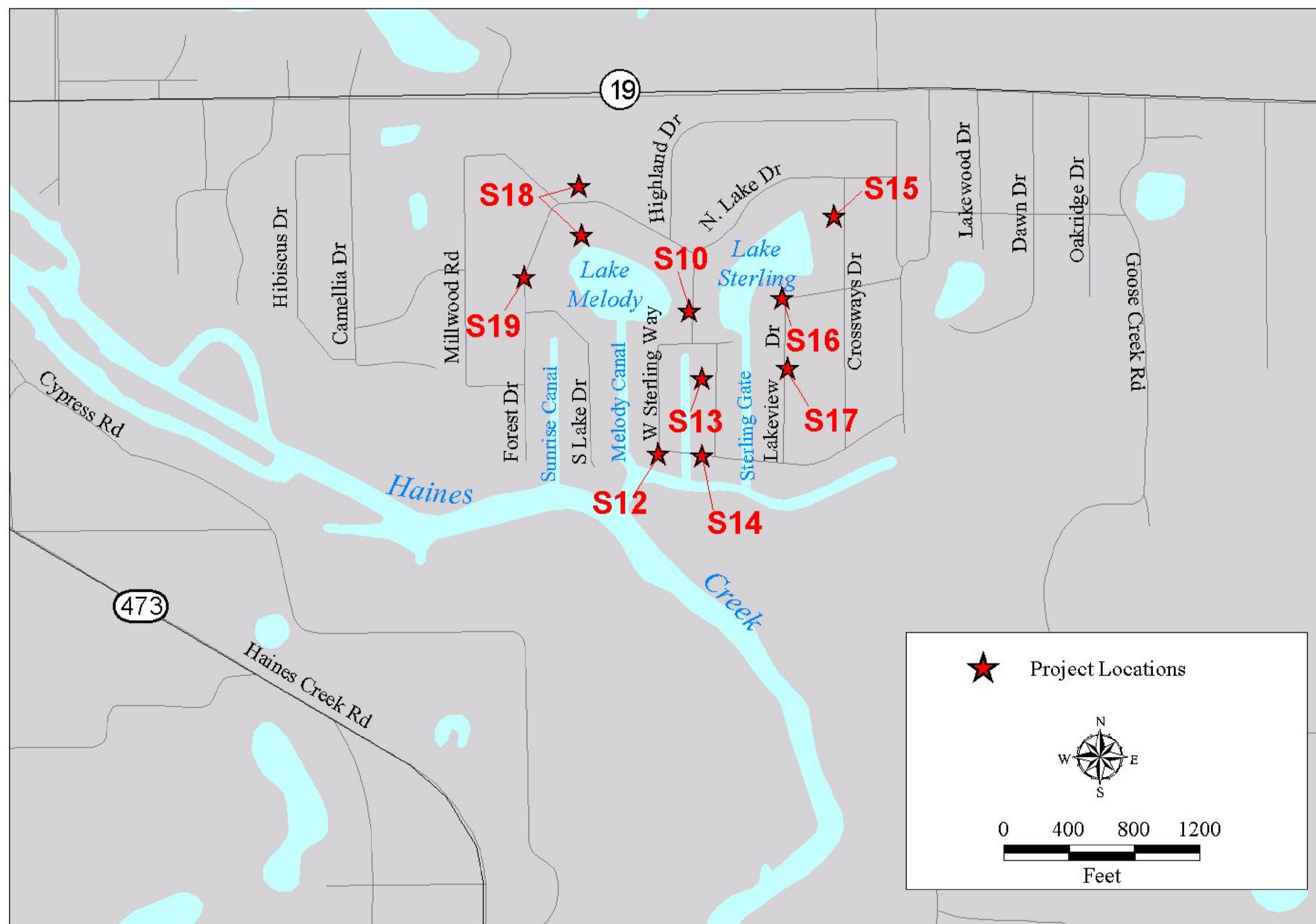
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 DATE: 8-1-02  
 DRAWN BY: WL  
 CHECKED BY: DWB  
 PROJECT NO.: 12-11930

TIMOTHY J. KELLY  
 FLA. REG. NO. 44721

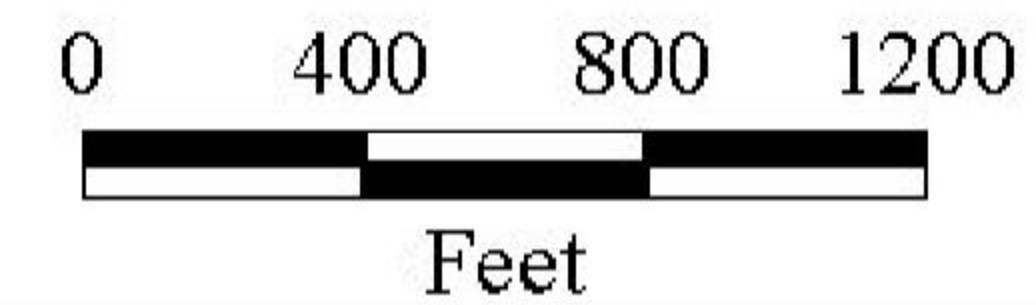
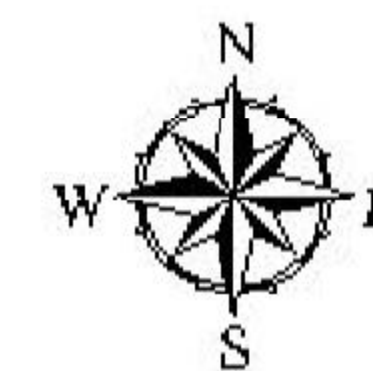
**CALL SUNSHINE 1-800-432-4770**  
 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY

DATE:  
 REFER TO INDEX FOR TOTAL SHEETS INCLUDED.  
 SHEET 2

APPR.	
REVISION	
NO.	DATE



★ Project Locations



NO.	DATE	REVISION	APPR.

**BCI**  
**ENGINEERS & SCIENTISTS, INC.**  
 2000 E. EDENWOOD DRIVE, LAKELAND, FL 33803  
 PHONE: (863) 857-3245  
 WEB SITE: www.bcieng.com  
 EB-0007867

LAKE COUNTY  
 LAKE GRIFFIN STORMWATER MANAGEMENT PROJECT  
 MID-FLORIDA LAKES  
 KEY SHEET

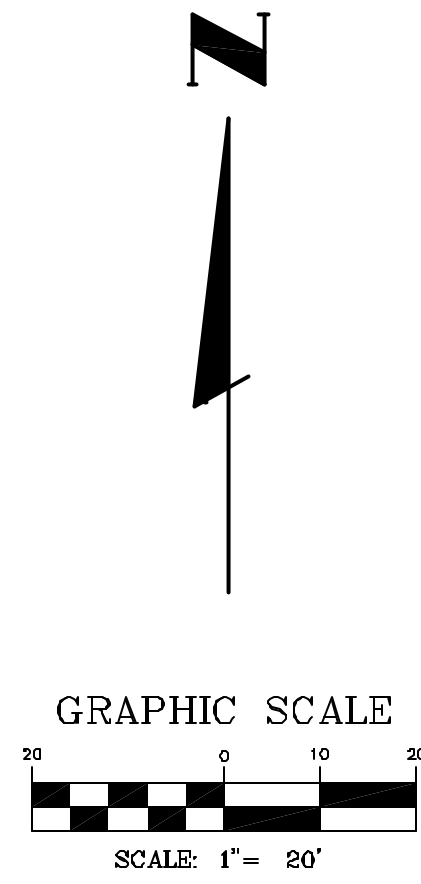
SCALE: 1" = 20'  
 DATE: 9-25-02  
 DRAWN BY: WL  
 CHECKED BY: DWB  
 PROJECT NO.: 12-11830.5

DAVID W. BUTCHER  
 FLA. REG. NO. 55431

DATE: \_\_\_\_\_  
 SHEET 8

CALL SUNSHINE 1-800-432-4770  
 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY

BDI FILE



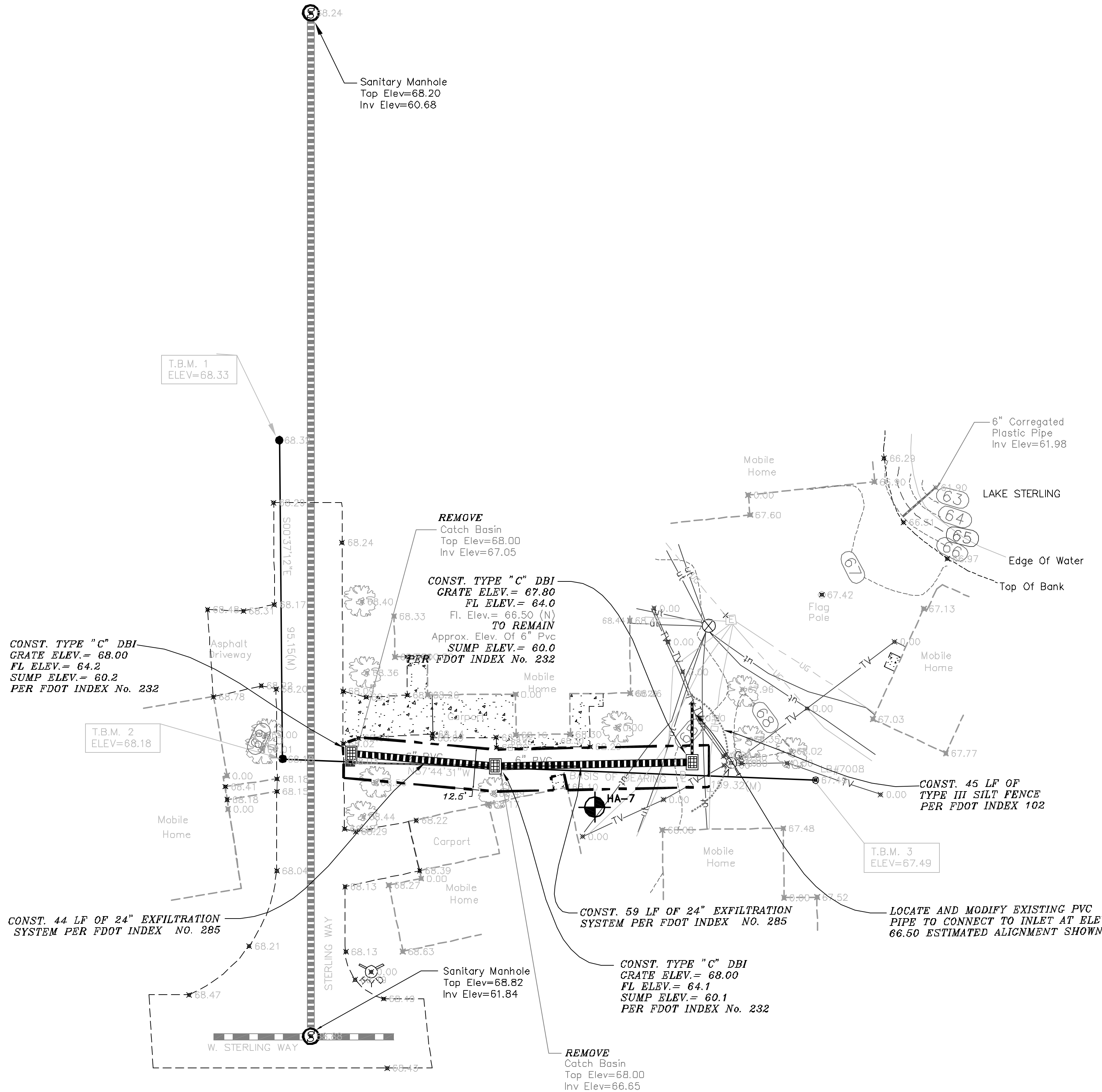
**PROJECT DATA**  
**DRAINAGE BASIN AREA**  
 TOTAL AREA: 1.51 ACRES  
 AVERAGE PERCENT IMPERVIOUS AREA PER TABLE 2-2A, TR-55 FOR 1/8 ACRES LOTS = 65%  
 IMPERVIOUS AREA = 0.98 ACRES

**FLORIDA LAND USE AND COVER CLASSIFICATION SYSTEM (FLUCCS)**  
 132 - MOBILE HOME UNITS 6 OR MORE DU/AC

**LEGEND**

--- (dashed line)	Exist. Eop	--- (dashed line)	PROPOSED CONTOUR
--- (dashed line)	Exist. Storm Water	--- (dashed line)	PROP. STORM WATER
--- (dashed line)	Exist. Contour	--- (dashed line)	PROPOSED UTILITY EASEMENT
--- (dashed line)	Exist. Tree	--- (dashed line)	SILT FENCE
--- (dashed line)	Exist. Underground Elec.	--- (dashed line)	SAND BAGS
		--- (dashed line)	FLOATING TUBIDITY BARRIER
		--- (dashed line)	PROPOSED RELOCATED TREE

Existing Data Illustrated By This Lettering Type.  
 PROPOSED DATA ILLUSTRATED BY THIS LETTERING TYPE.



**B & S ENGINEERS & SCIENTISTS, INC.**  
 2000 E. EDENWOOD DRIVE, LAKELAND, FL 33863  
 PHONE: (813) 857-2345  
 WEB SITE: www.BSEINC.com  
 EB-0007867

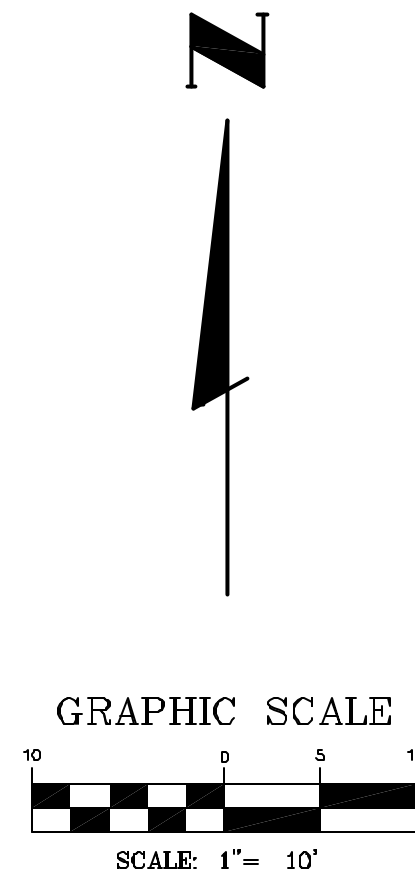
**LAKE COUNTY**  
**LAKE CRIFFIN STORMWATER MANAGEMENT PROJECT**  
**MID-FLORIDA LAKES**  
**SITE PLAN S-10**

SCALE: 1" = 20'  
 DATE: 8-25-02  
 DRAWN BY: WL  
 CHECKED BY: DJB  
 PROJECT NO.: 12-11830.5

TIMOTHY J. KELLY  
 FLA. REG. NO. 44721  
 DATE:  
 REFER TO INDEX FOR TOTAL SHEETS INCLUDED.  
 SHEET 9

NO.	DATE	REVISION	APPR.
1	Mar. 10, 02	per S.J.W.M.D. Comments	

BRI FILE: 12 - P:\Waterworks\12-11830.5 Mid Florida Lakes\12-11830.5 MIDFLORIDA LAKES-S10.dwg - Thu, 9 Aug 2002 9:10:16



OPEN CUT RECONSTRUCT PER ASPHALT OPEN CUT TYPICAL SECTION

CONTRACTOR TO REPLACE DRIVEWAY WITH DRIVEWAY SURFACE SIMILAR TO EXISTING WITH PRIOR APPROVAL FROM COUNTY ENGINEER AND HOME OWNER..

CONST. TYPE "C" DBI GRATE ELEV. = 66.77  
 FL. ELEV. = 65.87 (S)  
 TO REMAIN  
 APPROX. ELEV. OF 6" PVC FL. ELEV. = 63.27  
 SUMP ELEV. = 59.27  
 PER FDOT INDEX No. 232

REMOVE Catch Basin  
 Top Elev = 67.72  
 Inv Elev = 67.17

CONST. TYPE "C" DBI GRATE ELEV. = 67.60  
 FL. ELEV. = 63.40  
 SUMP ELEV. = 59.40  
 PER FDOT INDEX No. 232

CONST. 73 LF OF 24" EXFILTRATION SYSTEM  
 PER FDOT INDEX NO. 285

REMOVE Catch Basin  
 Top Elev = 66.77  
 Inv Elev In = 65.97  
 Inv Elev Out = 65.87

CONST. 26 LF OF FLOATING TURBIDITY BARRIER  
 PER FDOT INDEX 103

**PROJECT DATA**  
 DRAINAGE BASIN AREA  
 THIS AREA: 0.88 ACRES  
 AVERAGE PERCENT IMPERVIOUS AREA PER TABLE 2-2A, TR-55 FOR 1/8 ACRES LOTS = 65%  
 IMPERVIOUS AREA = 0.57 ACRES

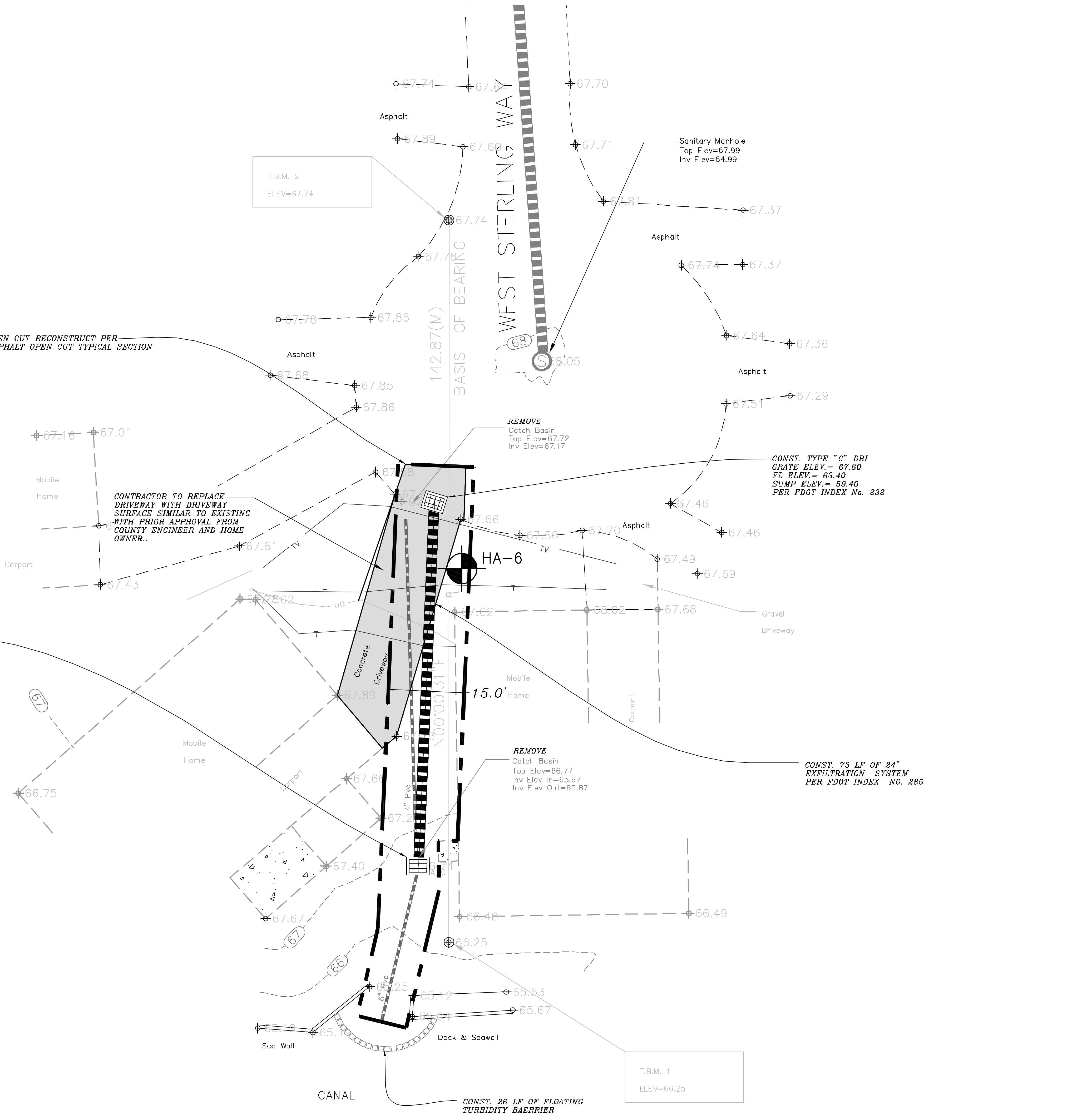
FLORIDA LAND USE AND COVER CLASSIFICATION SYSTEM (FLUCCS)  
 132 - MOBILE HOME UNITS 6 OR MORE DU/AC

**LEGEND**

- - - - -	Exist. Eop	—————	PROPOSED CONTOUR
- - - - -	Exist. Storm Water	—————	PROP. STORM WATER
- - - - -	Exist. Contour	—————	PROPOSED UTILITY EASEMENT
(Tree Symbol)	Exist. Tree	—————	SILT FENCE
-UG-	Exist. Underground Elec.	—————	SAND BAGS
		—————	FLOATING TURBIDITY BARRIER
		—————	PROPOSED RELOCATED TREE

Existing Data Illustrated By This Lettering Type.  
 PROPOSED DATA ILLUSTRATED BY THIS LETTERING TYPE.

B01 FILE: P:\Water-res\118-11830-12-11830-5 MIDFLORIDA LAKES\SIP.dwg - Mon, March 1, 2004 - 10:12 AM



NO.	DATE	REVISION	APPR.
1	Mar. 10. 02	per S.J.M.M.D. Comments	

**B&S ENGINEERS & SCIENTISTS, INC.**  
 2000 E. EDGEWOOD DRIVE, LAKELAND, FL 33803  
 PHONE: (865) 867-2345  
 WWW.B&S-INC.COM  
 WEB SITE: EB-0007867

**LAKE COUNTY**  
**LAKE GRIFFIN STORMWATER MANAGEMENT PROJECT**  
**MID-FLORIDA LAKES**  
**SITE PLAN S-12**

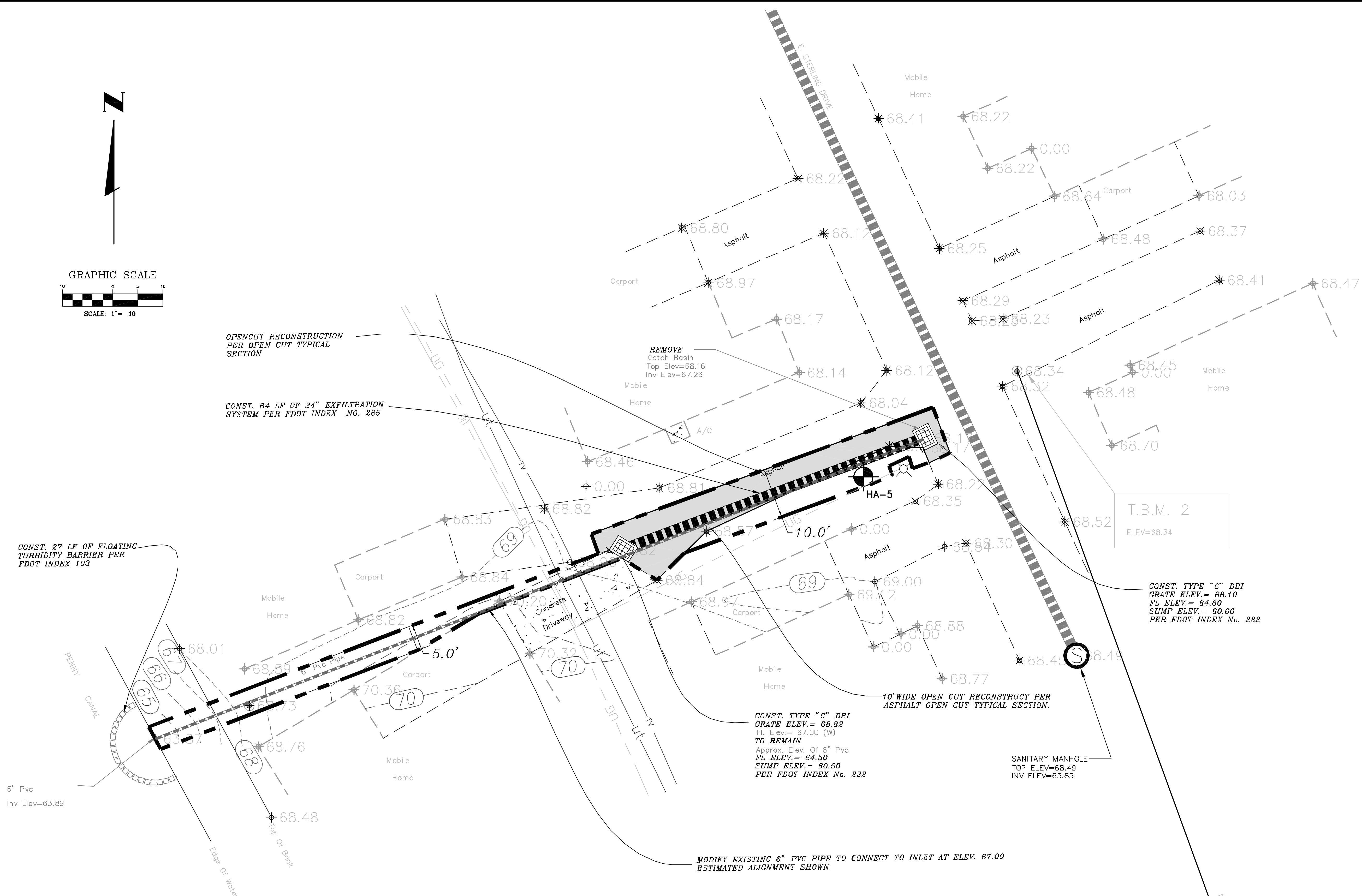
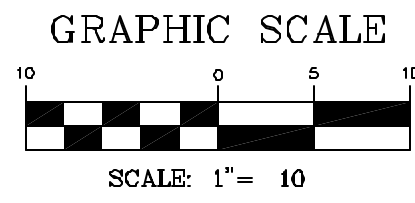
SCALE: 1" = 10'  
 DATE: 8-25-02  
 DRAWN BY: WL  
 CHECKED BY: DWB  
 PROJECT NO.: 12-11830.5

TIMOTHY J. KELLY  
 FLA. REG. NO. 44721

DATE: \_\_\_\_\_

REFER TO INDEX FOR TOTAL SHEETS INCLUDED.  
 SHEET - 10

CALL SUNSHINE 1-800-432-4770  
 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY



LEGEND			
--- (dashed)	Exist. Eop	--- (dashed)	PROPOSED CONTOUR
--- (dashed)	Exist. Storm Water	--- (dashed)	PROP. STORM WATER
--- (dashed)	Exist. Contour	--- (dashed)	PROPOSED UTILITY EASEMENT
⊙ (circle with tree)	Exist. Tree	--- (dashed)	SILT FENCE
--- (dashed)	Exist. Underground Elec.	--- (dashed)	SAND BAGS
⊙ (circle with pole)	Light Pole	--- (dashed)	FLOATING TURBIDITY BARRIER
		--- (dashed)	PROPOSED RELOCATED TREE

**PROJECT DATA**  
**DRAINAGE BASIN AREA**  
 THIS AREA: 1.08 ACRES  
 AVERAGE PERCENT IMPERVIOUS AREA PER TABLE 2-2A, TR-55 FOR 1/8 ACRES LOTS = 65%  
 IMPERVIOUS AREA = 0.70 ACRES

**FLORIDA LAND USE AND COVER CLASSIFICATION SYSTEM (FLUCCS)**  
 132 - MOBILE HOME UNITS 6 OR MORE DU/AC

Existing Data Illustrated By This Lettering Type.  
 PROPOSED DATA ILLUSTRATED BY THIS LETTERING TYPE.

**B&S ENGINEERS & SCIENTISTS, INC.**  
 2000 E. EDENWOOD DRIVE, LAKELAND, FL 33863  
 PHONE: (813) 857-2345  
 WEB SITE: www.bseng.com  
 EB-0007867

**LAKE COUNTY LAKE GRIFFIN STORMWATER MANAGEMENT PROJECT**  
**MID-FLORIDA LAKES**  
**SITE PLAN S-13**

SCALE: 1" = 10'  
 DATE: 9-25-02  
 DRAWN BY: WL  
 CHECKED BY: DWB  
 PROJECT NO.: 12-11930.5

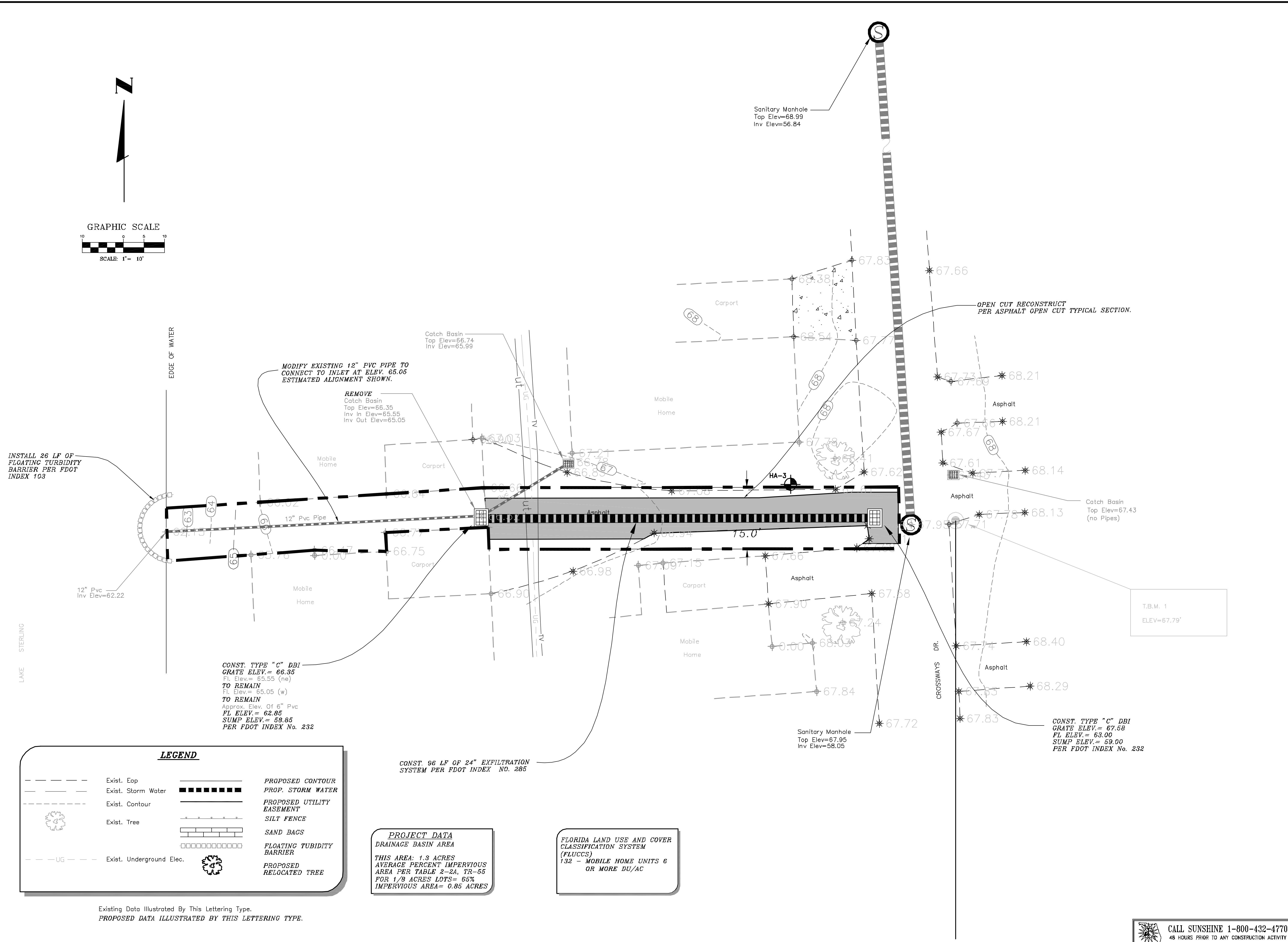
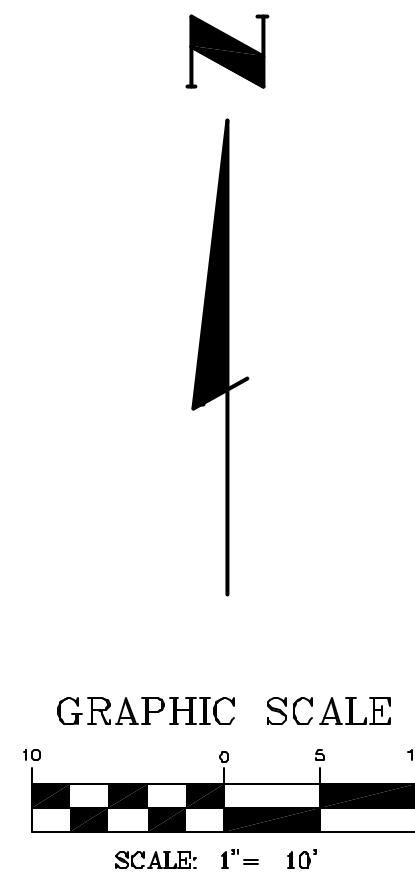
TIMOTHY J. KELLY  
 FLA. REG. NO. 44721  
 DATE:  
 REFER TO INDEX FOR TOTAL SHEETS INCLUDED.  
 SHEET 11

NO.	DATE	REVISION	APPR.
1	Mar. 10, 02	per S.J.W.M.D. Comments	

BRI FILE: ID - P:\V\g\m\m\m\12-11930.5 Mid Florida Lakes\12-11930.5 MIDFLORIDA LAKES\S13.dwg - Thu, 21 Nov 2002 - 9:33

CALL SUNSHINE 1-800-432-4770  
 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY





INSTALL 26 LF OF FLOATING TURBIDITY BARRIER PER FDOT INDEX 103

MODIFY EXISTING 12" PVC PIPE TO CONNECT TO INLET AT ELEV. 65.05 ESTIMATED ALIGNMENT SHOWN.

REMOVE Catch Basin  
Top Elev=66.35  
Inv In Elev=65.55  
Inv Out Elev=65.05

Catch Basin  
Top Elev=66.74  
Inv Elev=65.99

CONST. TYPE "C" DBI  
GRATE ELEV. = 66.35  
Fl. Elev. = 65.55 (ne)  
TO REMAIN  
Fl. Elev. = 65.05 (w)  
TO REMAIN  
Approx. Elev. Of 6" Pvc  
PL ELEV. = 62.85  
SUMP ELEV. = 59.85  
PER FDOT INDEX No. 232

CONST. 96 LF OF 24" EXFILTRATION SYSTEM PER FDOT INDEX NO. 285

CONST. TYPE "C" DBI  
GRATE ELEV. = 67.58  
FL ELEV. = 63.00  
SUMP ELEV. = 59.00  
PER FDOT INDEX No. 232

Sanitary Manhole  
Top Elev=68.99  
Inv Elev=56.84

Sanitary Manhole  
Top Elev=67.95  
Inv Elev=58.05

OPEN CUT RECONSTRUCT PER ASPHALT OPEN CUT TYPICAL SECTION.

T.B.M. 1  
ELEV=67.79'

LEGEND			
--- (dashed line)	Exist. Eop	--- (dashed line)	PROPOSED CONTOUR
--- (dashed line)	Exist. Storm Water	--- (dashed line)	PROP. STORM WATER
--- (dashed line)	Exist. Contour	--- (dashed line)	PROPOSED UTILITY EASEMENT
--- (dashed line)	Exist. Tree	--- (dashed line)	SILT FENCE
--- (dashed line)	Exist. Underground Elec.	--- (dashed line)	SAND BAGS
--- (dashed line)		--- (dashed line)	FLOATING TURBIDITY BARRIER
--- (dashed line)		--- (dashed line)	PROPOSED RELOCATED TREE

**PROJECT DATA**  
DRAINAGE BASIN AREA  
THIS AREA: 1.3 ACRES  
AVERAGE PERCENT IMPERVIOUS AREA PER TABLE 2-2A, TR-55 FOR 1/8 ACRES LOTS= 65%  
IMPERVIOUS AREA= 0.85 ACRES

**FLORIDA LAND USE AND COVER CLASSIFICATION SYSTEM (FLUCCS)**  
132 - MOBILE HOME UNITS 6 OR MORE DU/AC

Existing Data Illustrated By This Lettering Type.  
PROPOSED DATA ILLUSTRATED BY THIS LETTERING TYPE.

NO.	DATE	REVISION	APPR.
1	Mar. 10. 02	per S.J.M.M.D. Comments	

**B&S ENGINEERS & SCIENTISTS, INC.**  
2000 E. EDGEWOOD DRIVE, LAKELAND, FL 33803  
PHONE: (863) 667-2345  
WEB SITE: www.B&SINC.com  
E-mail: EB-6007@b7

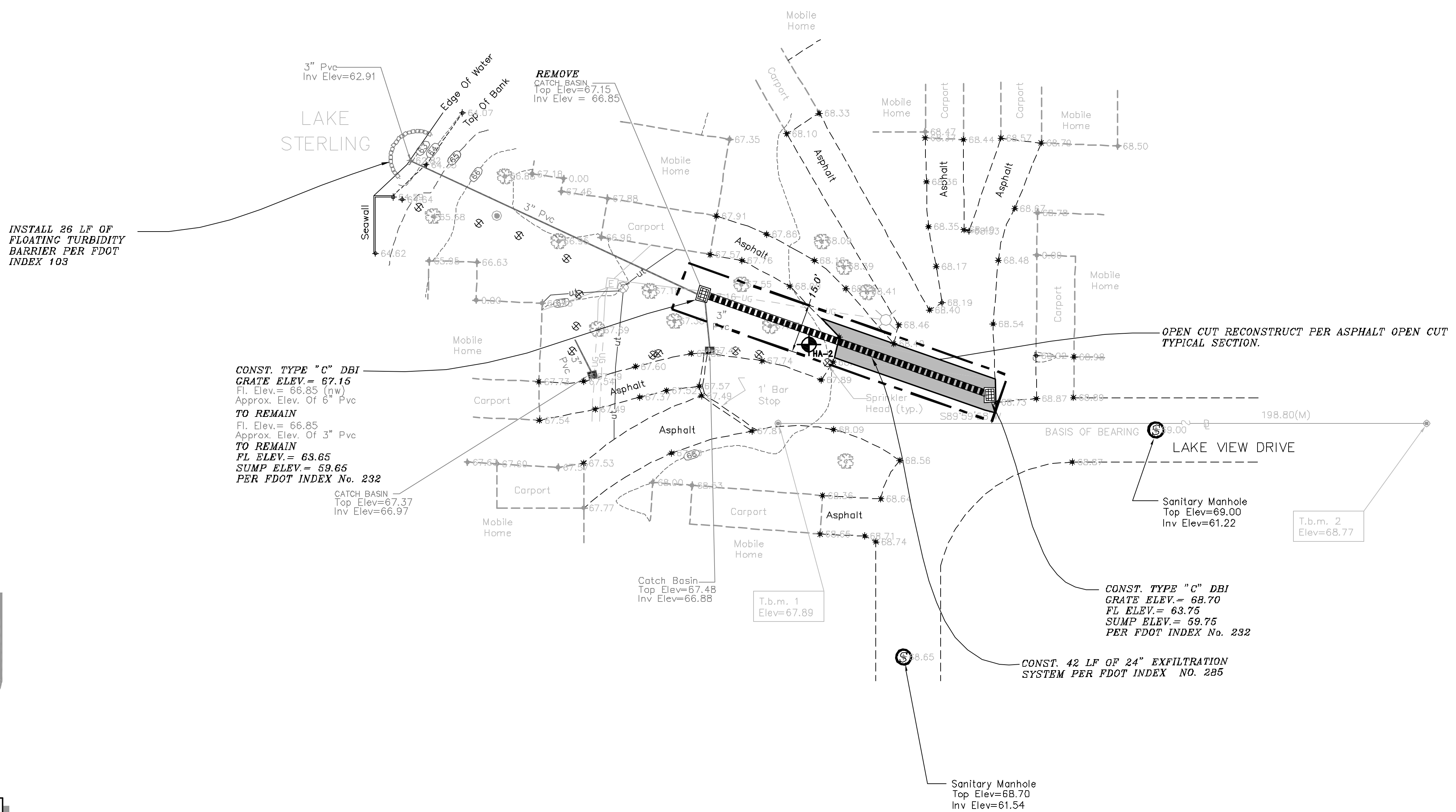
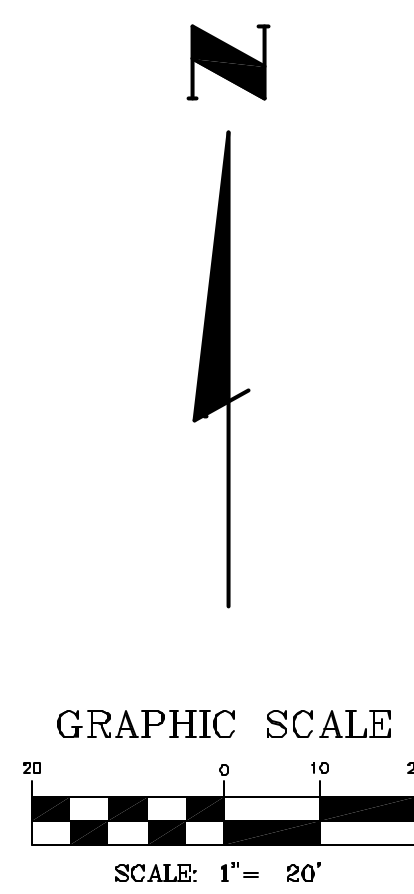
**LAKE COUNTY  
LAKE GRIFFIN STORMWATER MANAGEMENT PROJECT  
MID-FLORIDA LAKES  
SITE PLAN S-15**

SCALE: 1" = 10'  
DATE: 8-25-02  
DRAWN BY: WL  
CHECKED BY: DWB  
PROJECT NO.: 12-11830.5

TIMOTHY J. KELLY  
FLA. REG. NO. 44721  
DATE:  
REFER TO INDEX FOR TOTAL SHEETS INCLUDED.  
SHEET - 13

CALL SUNSHINE 1-800-432-4770  
48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY

802 FILE: P:\Water-res.V12-11830.5\MIDFLORIDA LAKES-S15.dwg, Wed, November 6, 2002, 10:27 AM



**PROJECT DATA**  
DRAINAGE BASIN AREA  
THIS AREA: 1.08 ACRES  
AVERAGE PERCENT IMPERVIOUS AREA PER TABLE 2-2A, TR-55 FOR 1/8 ACRES LOTS = 65%  
IMPERVIOUS AREA = 0.70 ACRES

FLORIDA LAND USE AND COVER CLASSIFICATION SYSTEM (FLUCCS)  
132 - MOBILE HOME UNITS 6 OR MORE DU/AC

LEGEND			
--- (dashed line)	Exist. Eop	--- (dashed line)	PROPOSED CONTOUR
--- (dashed line)	Exist. Storm Water	--- (dashed line)	PROP. STORM WATER
--- (dashed line)	Exist. Contour	--- (dashed line)	PROPOSED UTILITY EASEMENT
⊗ (circle with cross)	Exist. Tree	--- (dashed line)	SILT FENCE
⊗ (circle with cross)	Exist. Light Pole	--- (dashed line)	SAND BAGS
⊗ (circle with cross)	Exist. Sprinkler Heads	--- (dashed line)	FLOATING TURBIDITY BARRIER
--- (dashed line)	Exist. Underground Elec	--- (dashed line)	PROPOSED RELOCATED TREE

Existing Data Illustrated By This Lettering Type.  
PROPOSED DATA ILLUSTRATED BY THIS LETTERING TYPE.

**B & S ENGINEERS & SCIENTISTS, INC.**  
2000 E. EDENWOOD DRIVE, LAKELAND, FL 33863  
PHONE: (813) 857-2345  
WEB SITE: www.B&SINC.com  
EB-0007867

**LAKE COUNTY  
LAKE GRIFFIN STORMWATER MANAGEMENT PROJECT  
MID-FLORIDA LAKES  
SITE PLAN S-16**

SCALE: 1" = 20'  
DATE: 9-25-02  
DRAWN BY: WJ  
CHECKED BY: DJB  
PROJECT NO.: 12-11830.5

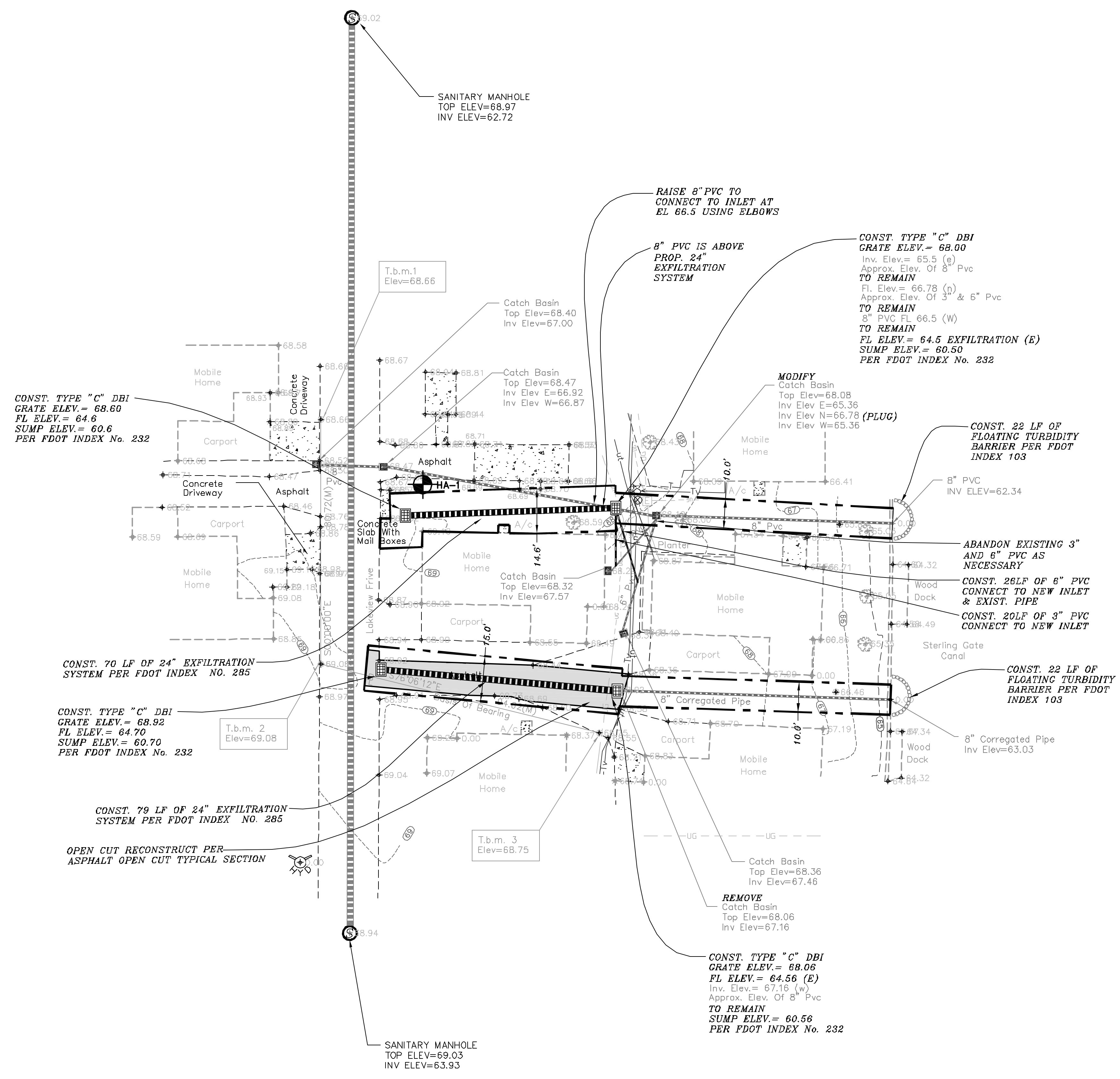
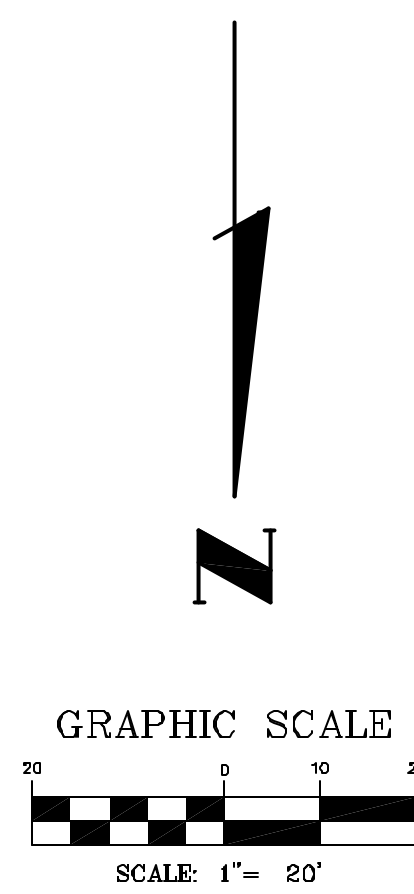
TIMOTHY J. KELLY  
FLA. REG. NO. 44721

DATE:  
REFER TO INDEX FOR TOTAL SHEETS INCLUDED.  
SHEET 14

NO.	DATE	REVISION	APPR.
1	Mar. 10, 02	per S.J.W.M.D. Comments	

BDF FILE: ID - P:\as\bor-r\cs\12-11830.12-11830.5.mfd\FLORIDA LAKES-S16.dwg - Thu, 21 Nov 2002 - 14:31

CALL SUNSHINE 1-800-432-4770  
48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY



**PROJECT DATA**  
**DRAINAGE BASIN AREA**  
 THIS AREA: 2.4 ACRES  
 AVERAGE PERCENT IMPERVIOUS AREA PER TABLE 2-2A, TR-55 FOR 1/8 ACRES LOTS = 65%  
 IMPERVIOUS AREA = 1.56 ACRES

**FLORIDA LAND USE AND COVER CLASSIFICATION SYSTEM (FLUCCS)**  
 132 - MOBILE HOME UNITS 6 OR MORE DU/AC

LEGEND			
--- (dashed line)	Exist. Eap	--- (dashed line)	PROPOSED CONTOUR
--- (dashed line)	Exist. Storm Water	--- (dashed line)	PROP. STORM WATER
--- (dashed line)	Exist. Contour	--- (dashed line)	PROPOSED UTILITY EASEMENT
⊗ (circle with cross)	Exist. Tree	--- (dashed line)	SILT FENCE
⊗ (circle with cross)	Exist. Sprinkler Head	--- (dashed line)	SAND BAGS
⊗ (circle with cross)	Exist. Elec. Transformer	--- (dashed line)	FLOATING TUBIDITY BARRIER
---UG---	Exist. Underground Elec.	--- (dashed line)	PROPOSED RELOCATED TREE

Existing Data Illustrated By This Lettering Type.  
 PROPOSED DATA ILLUSTRATED BY THIS LETTERING TYPE.

**B & S ENGINEERS & SCIENTISTS, INC.**  
 2000 E. EDENWOOD DRIVE, LAKELAND, FL 33863  
 PHONE: (883) 857-2345  
 WEB SITE: www.B&SINC.com  
 EB-0007867

**LAKE COUNTY  
 LAKE GRIFFIN STORMWATER MANAGEMENT PROJECT  
 MID-FLORIDA LAKES  
 SITE PLAN S-17**

SCALE: 1" = 20'  
 DATE: 9-25-02  
 DRAWN BY: WJL  
 CHECKED BY: DWB  
 PROJECT NO.: 12-11830.5

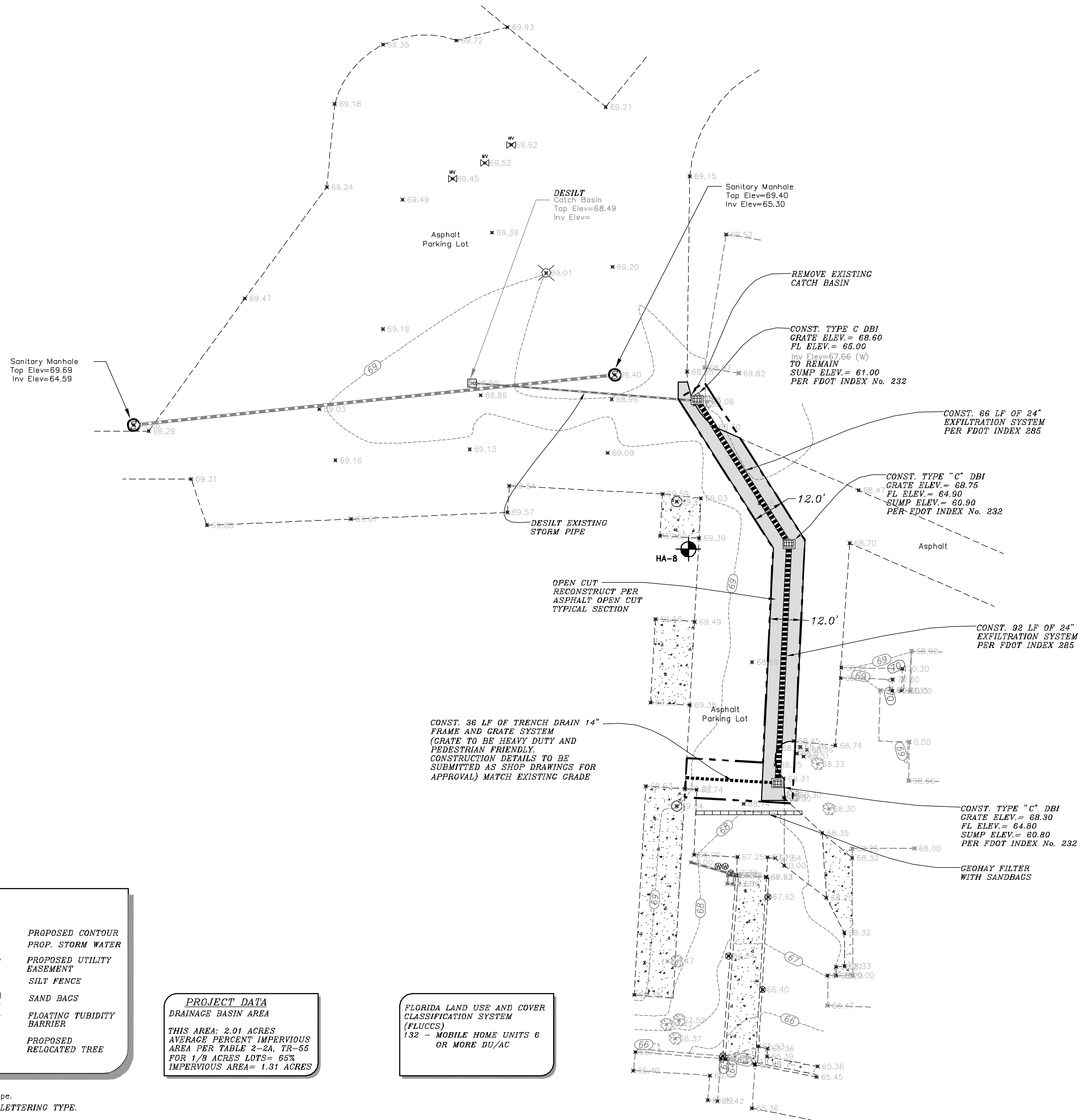
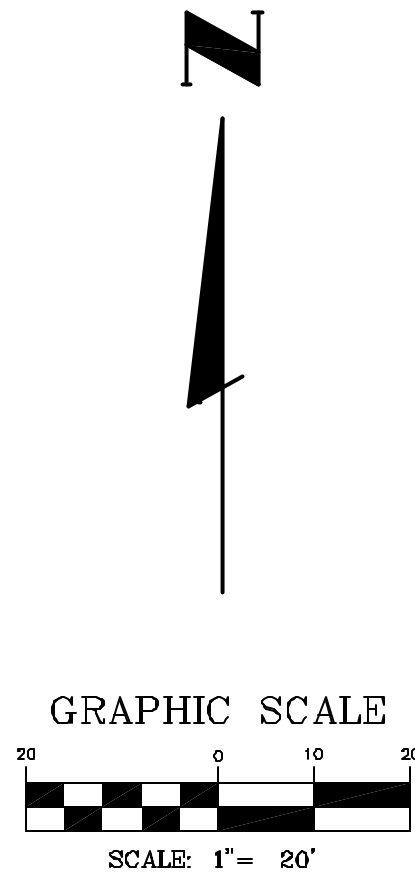
TIMOTHY J. KELLY  
 FLA. REG. NO. 44721

DATE:  
 REFER TO INDEX FOR TOTAL SHEETS INCLUDED  
 SHEET 15

CALL SUNSHINE 1-800-432-4770  
 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY

BDF FILE: P:\A\water-res\12-11830.5\MIDFLORIDA\_LAKES-S17.dwg -- Mon, March 1, 2004 -- 9:04 AM

NO.	DATE	REVISION	APPR.
1	Mar. 10, 02	per S.J.W.M.D. Comments	



LEGEND			
	Exist. Eop		PROPOSED CONTOUR
	Exist. Storm Water		PROP. STORM WATER
	Exist. Contour		PROPOSED UTILITY EASEMENT
	Exist. Tree		SILT FENCE
			SAND BAGS
			FLOATING TUBIDITY BARRIER
			PROPOSED RELOCATED TREE

**PROJECT DATA**  
 DRAINAGE BASIN AREA  
 THIS AREA: 2.01 ACRES  
 AVERAGE PERCENT IMPERVIOUS AREA PER TABLE 2-2A, TR-55 FOR 1/8 ACRES LOTS= 65%  
 IMPERVIOUS AREA= 1.31 ACRES

FLORIDA LAND USE AND COVER CLASSIFICATION SYSTEM (FLUCCS)  
 132 - MOBILE HOME UNITS 6 OR MORE DU/AC

Existing Data Illustrated By This Lettering Type.  
 PROPOSED DATA ILLUSTRATED BY THIS LETTERING TYPE.

**B & S ENGINEERS & SCIENTISTS, INC.**  
 2000 E. EDENWOOD DRIVE, LAKELAND, FL 33863  
 PHONE: (813) 857-2345  
 WEB SITE: www.bsengr.com  
 EB-0007867

**LAKE COUNTY  
 LAKE GRIFFIN STORMWATER MANAGEMENT PROJECT  
 MID-FLORIDA LAKES  
 SITE PLAN S-18**

SCALE: 1" = 20'  
 DATE: 10-10-02  
 DRAWN BY: WL  
 CHECKED BY: DJB  
 PROJECT NO.: 12-11830.5

DAVID W. BUTCHER  
 FLA. REG. NO. 55431

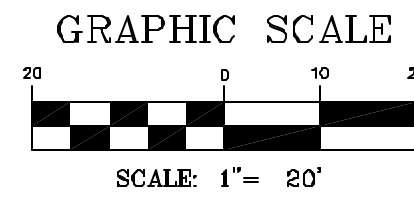
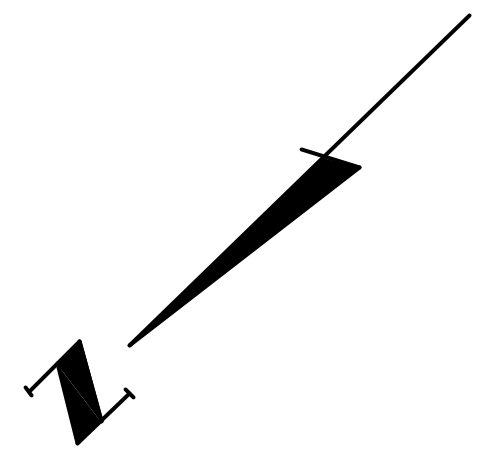
DATE:  
 REFER TO INDEX FOR TOTAL SHEETS INCLUDED.  
 SHEET - 16

NO.	DATE	REVISION	APPR.
1	Mar. 10. 02	per S.J.W.M.D. Comments	

BRI FILE: ID - P:\Vg\lpr-proj\12-11830\12-11830.5 Mid Florida Lakes\12-11830.5 Mid Florida Lakes\S18.FIN.dwg - Thu, 21 Nov 2002 - 9:45

CALL SUNSHINE 1-800-432-4770  
 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY

BDF FILE: I:\P\Water-res\112-11830\12-11830\12-11830.5 MD\FLORENZA LAKES-S19-FINAL.dwg - Thu, 9 Jan 2003 - 11:03

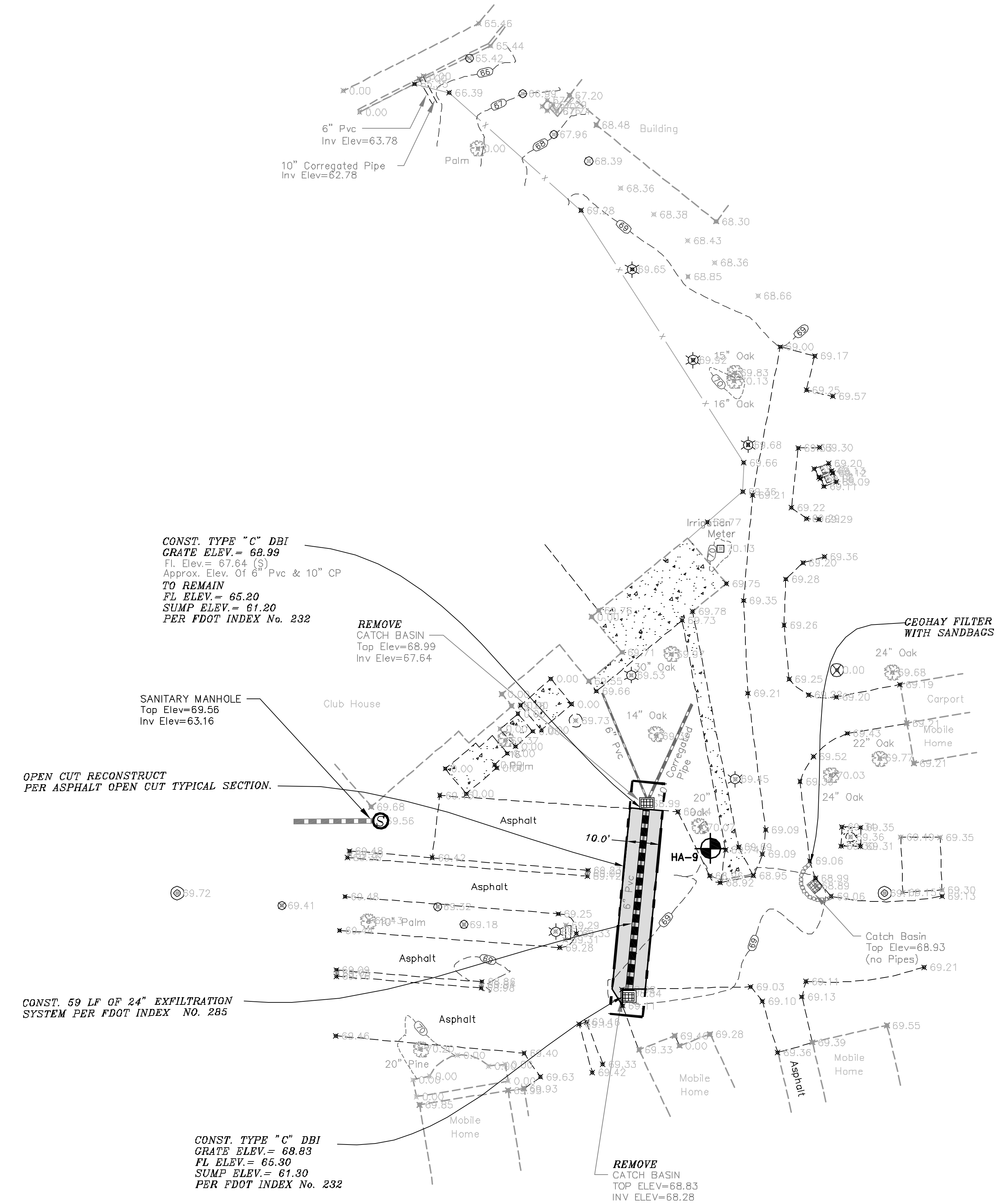


LEGEND			
	Exist. Eop		PROPOSED CONTOUR
	Exist. Storm Water		PROP. STORM WATER
	Exist. Contour		PROPOSED UTILITY EASEMENT
	Exist. Tree		SILT FENCE
			SAND BAGS
			FLOATING TUBIDITY BARRIER
			PROPOSED RELOCATED TREE

Existing Data Illustrated By This Lettering Type.  
 PROPOSED DATA ILLUSTRATED BY THIS LETTERING TYPE.

**PROJECT DATA**  
 DRAINAGE BASIN AREA  
 THIS AREA: 2.2 ACRES  
 AVERAGE PERCENT IMPERVIOUS AREA PER TABLE 2-2A, TR-55 FOR 1/8 ACRES LOTS= 65%  
 IMPERVIOUS AREA= 1.43 ACRES

FLORIDA LAND USE AND COVER CLASSIFICATION SYSTEM (FLUCCS)  
 132 - MOBILE HOME UNITS 6 OR MORE DU/AC



**B & S ENGINEERS & SCIENTISTS, INC.**  
 2000 E. EDENWOOD DRIVE, LAKELAND, FL 33863  
 PHONE: (813) 857-2345  
 WEB SITE: [www.B&SINC.com](http://www.B&SINC.com)  
 EB-0007867

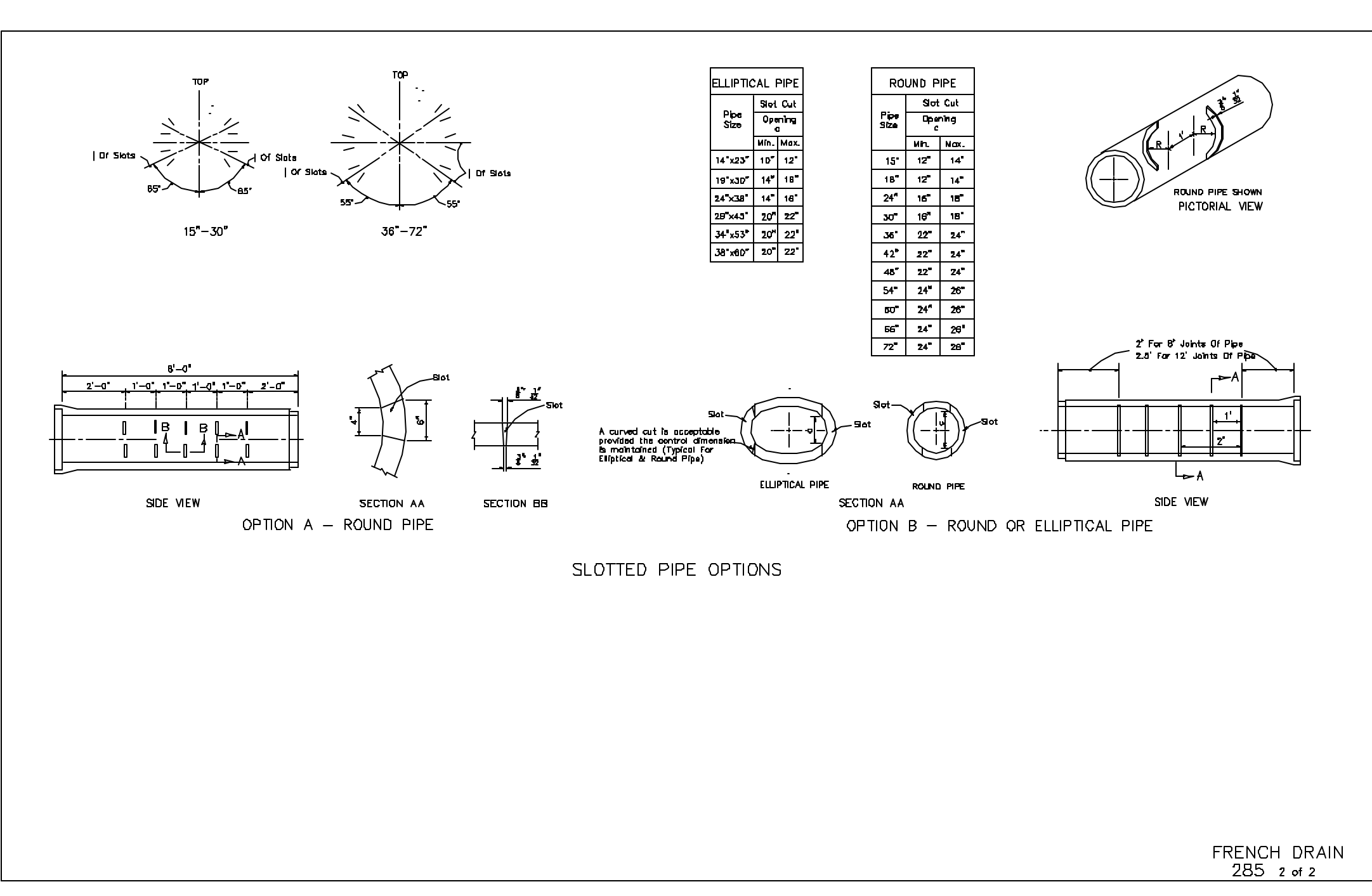
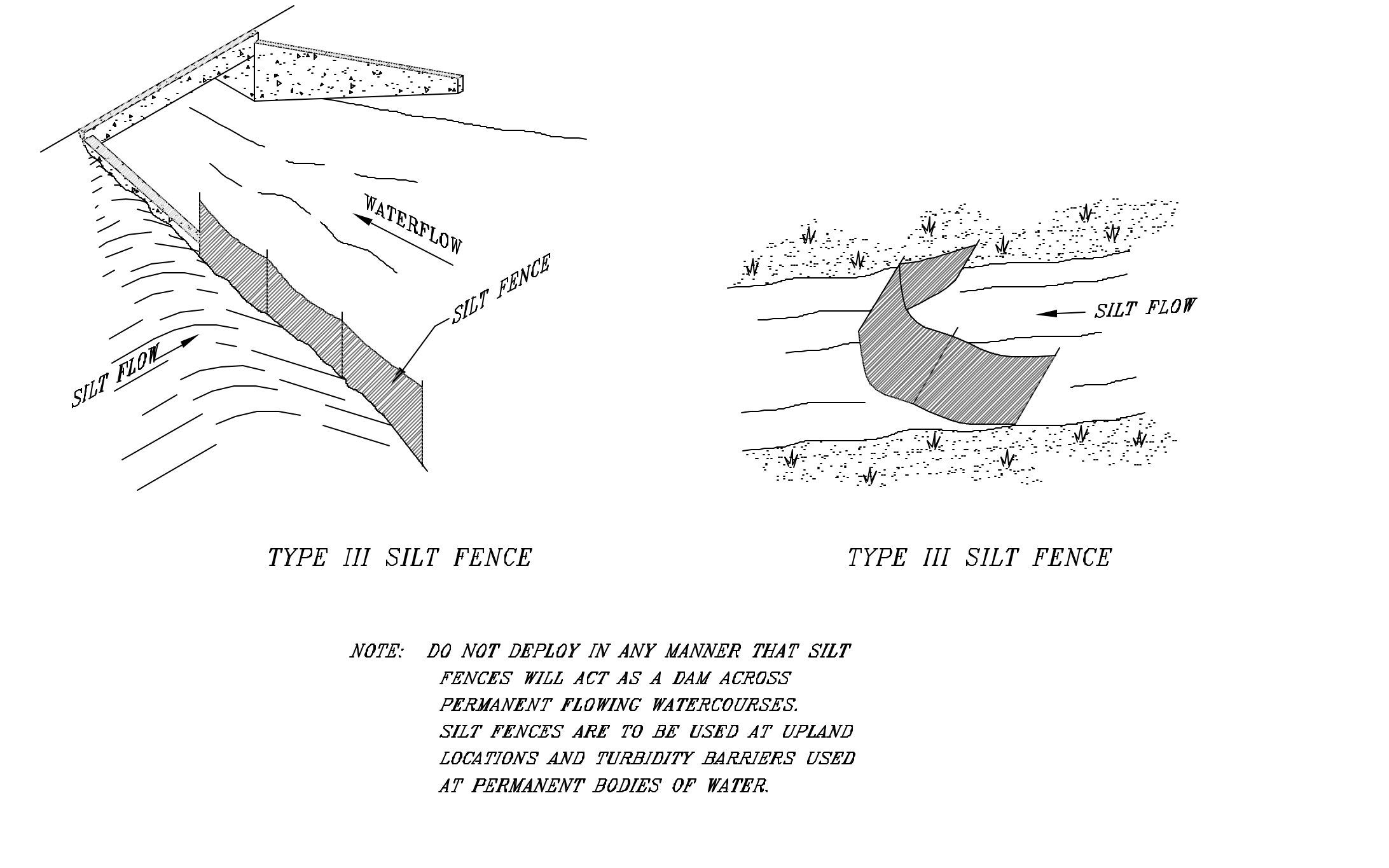
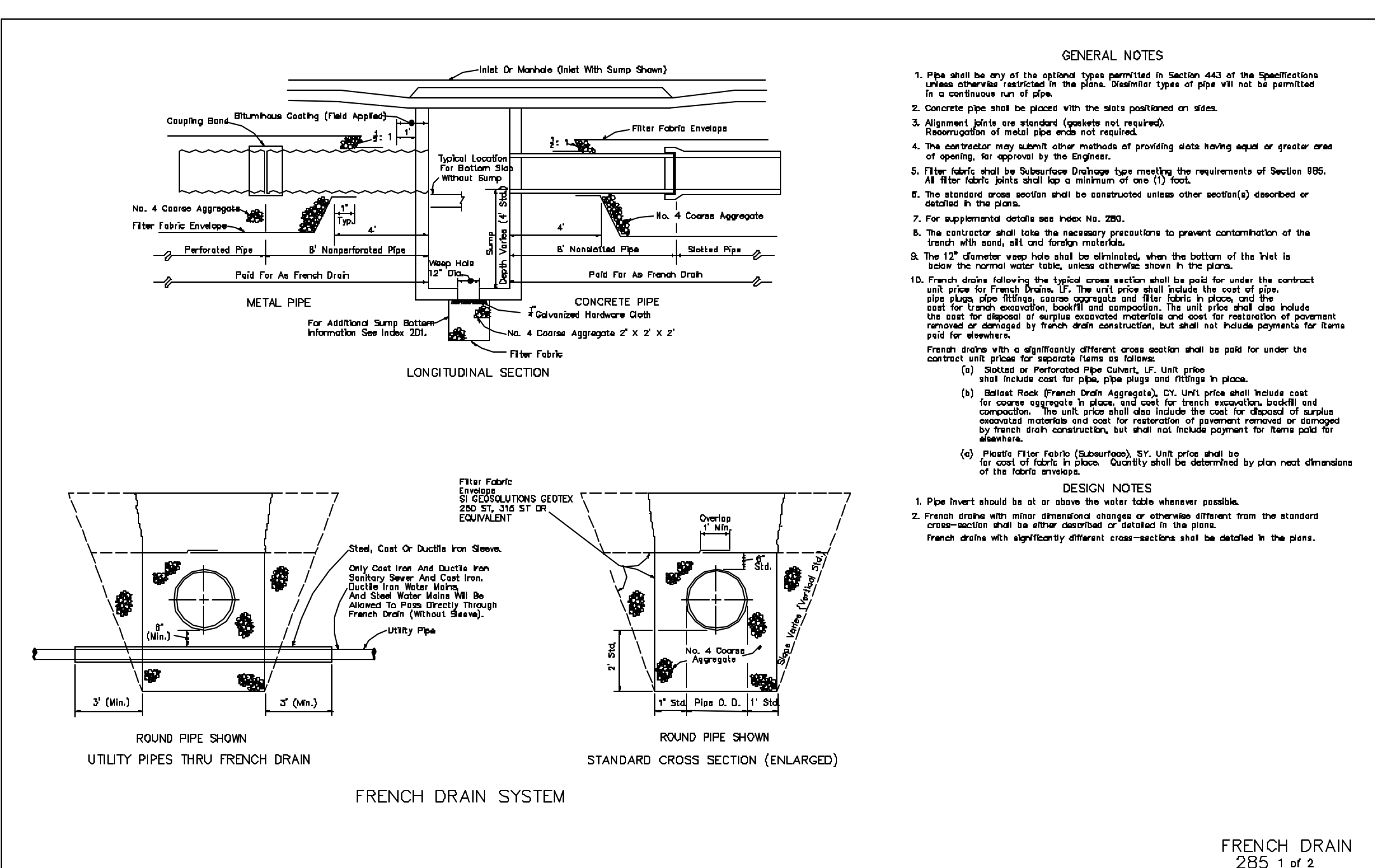
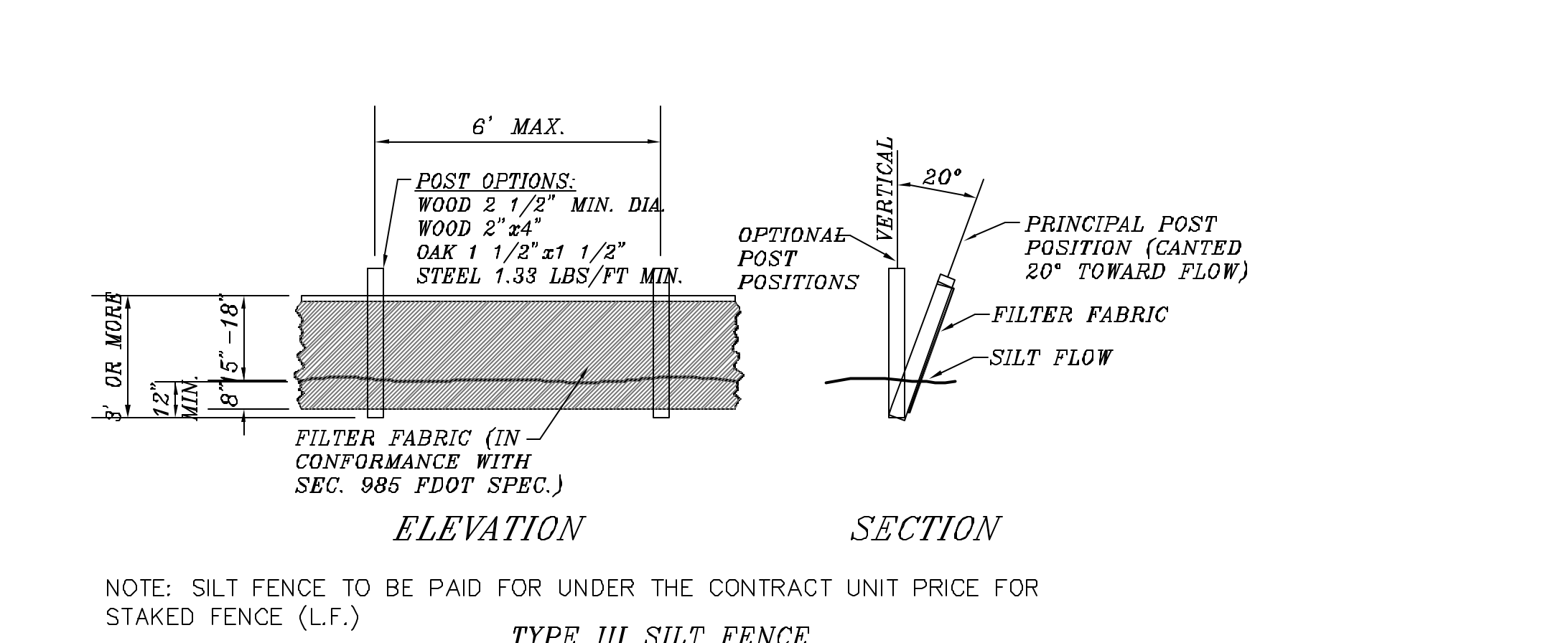
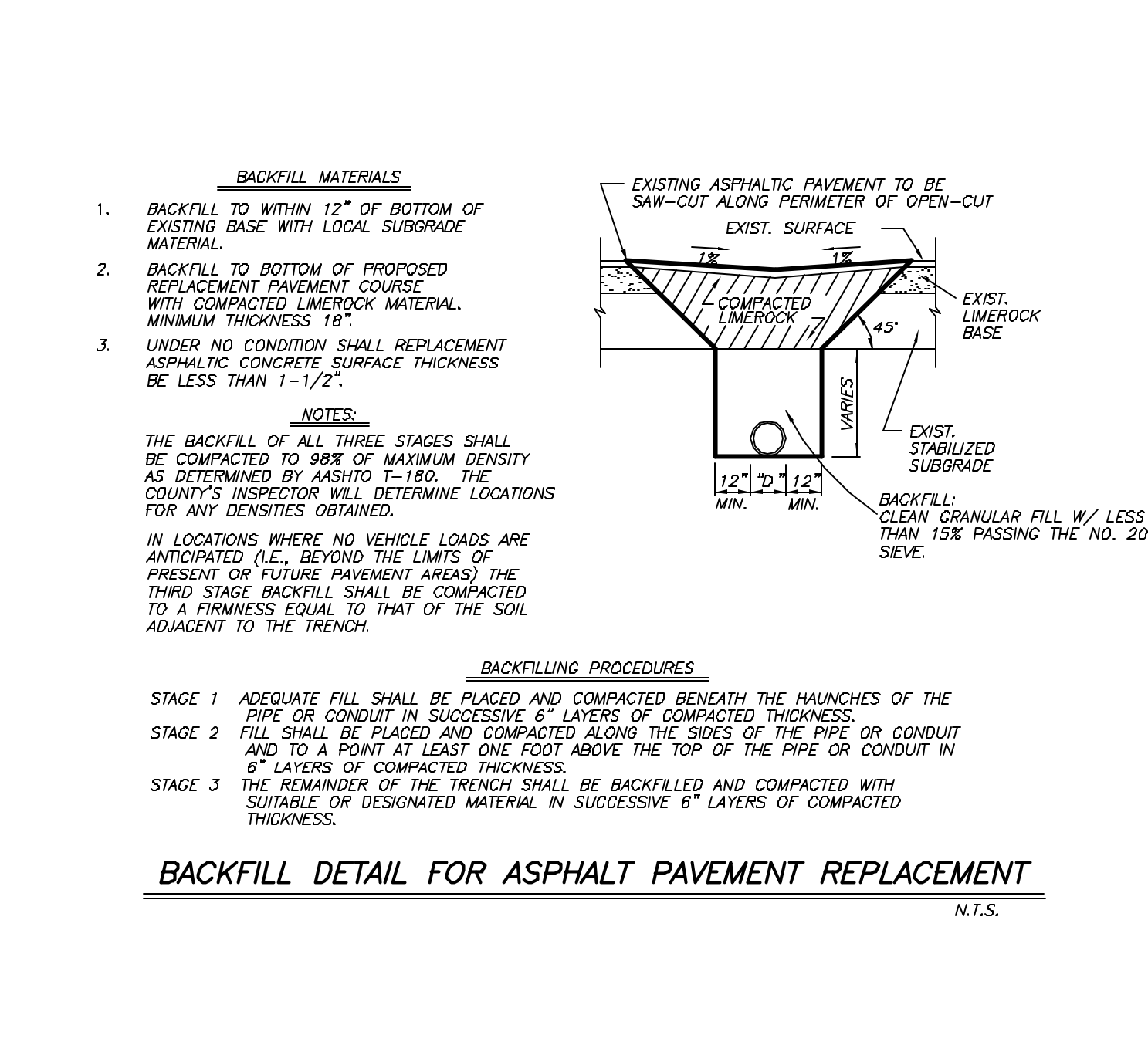
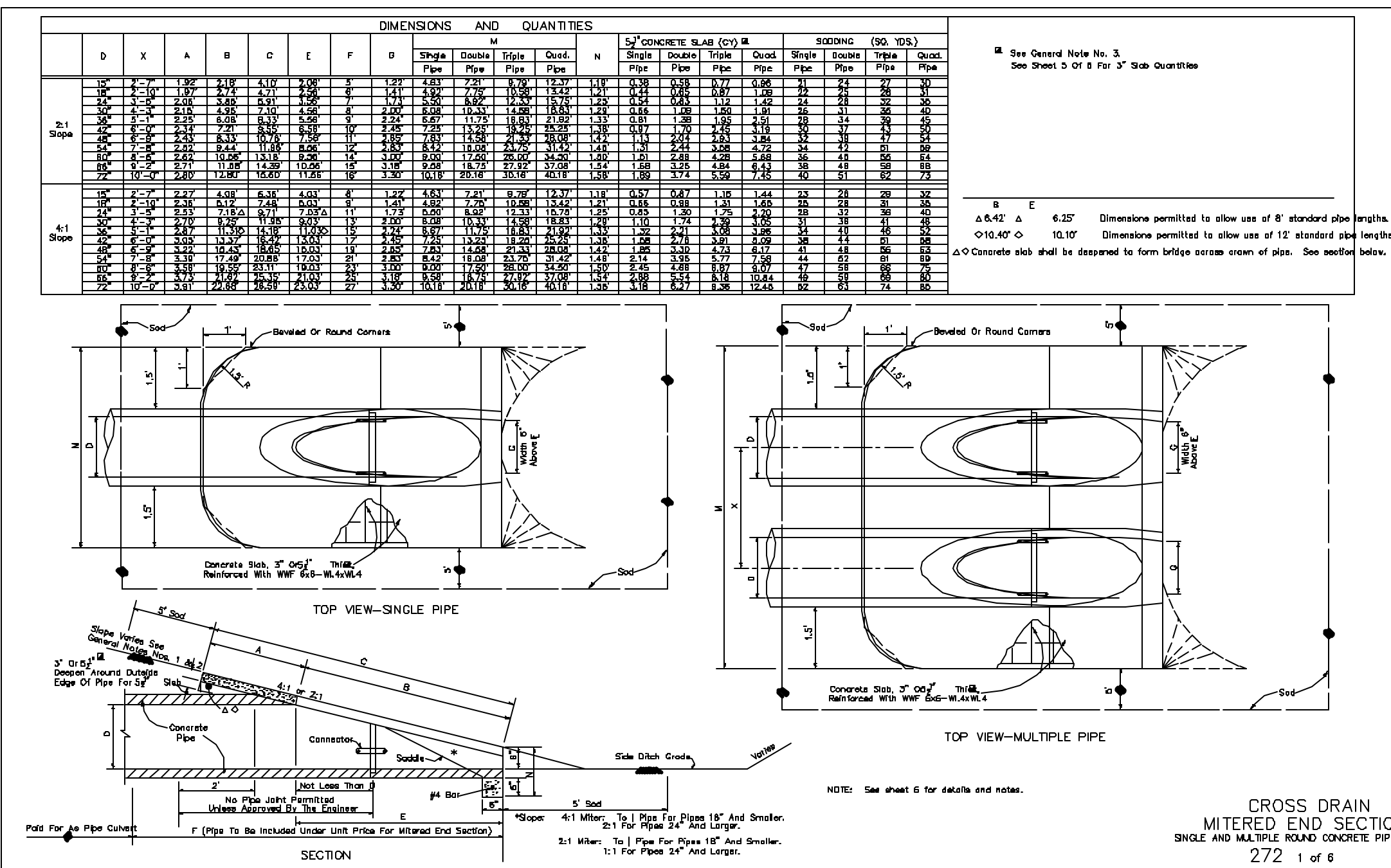
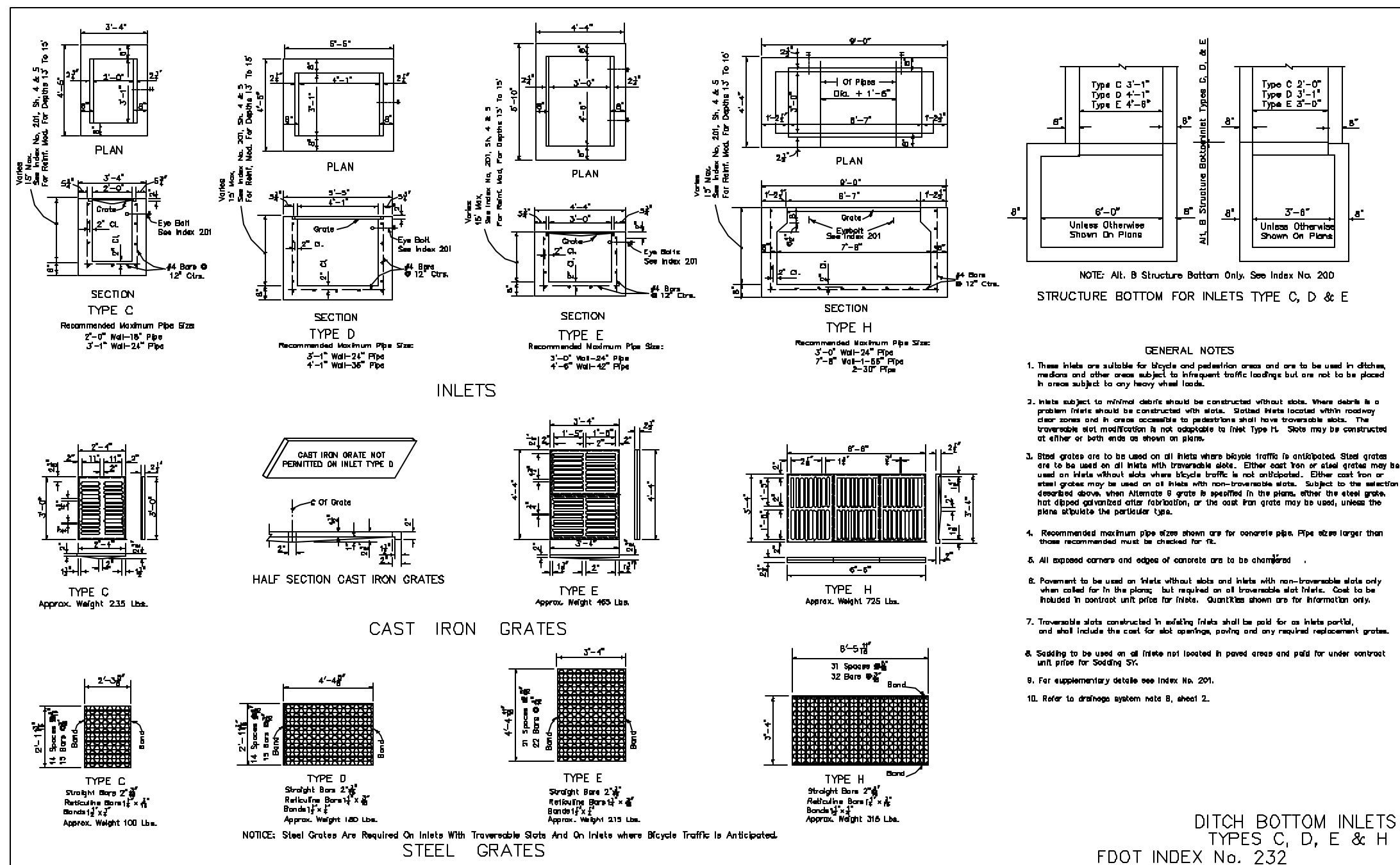
**LAKE COUNTY  
 LAKE GRIFFIN STORMWATER MANAGEMENT PROJECT  
 MID-FLORIDA LAKES  
 SITE PLAN S-19**

SCALE: 1" = 20'  
 DATE: 10-10-02  
 DRAWN BY: WL  
 CHECKED BY: DWB  
 PROJECT NO.: 12-11830.5

DAVID W. BUTCHER  
 FLA. REG. NO. 55431

CALL SUNSHINE 1-800-432-4770  
 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY  
 SHEET 17

NO.	DATE	REVISION	APPR.
1	Mar. 10, 02	per S.W.M.D. Comments	



**EROSION & SEDIMENT CONTROL**  
N.T.S.

**FRENCH DRAIN**  
285 2 of 2

APPR. \_\_\_\_\_

REVISION \_\_\_\_\_

NO. \_\_\_\_\_ DATE \_\_\_\_\_

**ENGINEERS & SCIENTISTS, INC.**  
2000 E. EDGEWOOD DRIVE, LAKELAND, FL 33803  
PHONE (883) 687-2345  
EP-0007867

**LAKE COUNTY**  
**LAKE GRIFFIN STORMWATER MANAGEMENT PROJECT**  
**MISCELLANEOUS DETAILS**

SCALE: N.T.S.  
DATE: 7/24/02  
DRAWN BY: WL  
CHECKED BY: \_\_\_\_\_  
PROJECT NO.: 20-11879

TIMOTHY J. KELLY  
FLA. REG. NO. 44721

DATE: \_\_\_\_\_

CALL SUNSHINE 1-800-432-4770  
48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY

REFER TO INDEX FOR TOTAL SHEETS INCLUDED.  
SHEET 18