

SITE DEVELOPMENT PLANS FOR FIRST BAPTIST CHURCH OF DADE CITY PHASE 1, BALL FIELDS, FIELD BUILDING, BALL FIELD PARKING LOT WITH UTILITIES PASCO COUNTY, FLORIDA

PARCEL ID# 05/25/21/0000/00900/0000

PROJECT DATA

TOTAL PROJECT ACREAGE: +/- 58.84 ACRES/DEVELOPABLE AREA
NO WETLAND ON SITE
PHASE 1 PROJECT ACREAGE: +/- 23.83 ACRES
PHASE 1 BUILDING: ONE STORY RECREATIONAL FACILITY 8,960 SF FLOOR AREA
ONE COVERED PATIO 13,250 SF

EXISTING USE: VACANT LAND/NO EXISTING STRUCTURES
EXISTING ZONING/FLU:
• PARCEL ID: 05/25/21/0000/00900/0000
ZONING: A-C
FLU: AG/R
ABUTTING:
NORTH: SR 52 A-R-R-1 & C-2/RES-6
EAST: C-2-A-R&R-1/RES-6
WEST: R-2&A-R/RES-6
SOUTH: A-C/AG/R

PROPOSED USE: PHASE 1:
2 BASEBALL FIELDS AND 2 SOCCER FIELDS
ONE 8,960 SF RECREATIONAL BUILDING CONTAINING 1 MENS AND 1 WOMENS
REST ROOM. NO FOOD PREP OR COOKING.
ONE 13,250 SF COVERED PATIO AREA
BUILDING HEIGHT 24' MAX

MAX. ALLOWABLE F.A.R. = 25%
PHASE 1 F.A.R. = 22,210 OR 0.50 AC 0.50/58.84 = 0.0086

PHASE 1 VEHICULAR USE AREA: 65,366 SF

SETBACKS REQUIRED:
F - 50'
S - 25'
S - 25'
R - 50'

ROW DEDICATION OF 33 FT. ALONG SR. 52

MINIMUM LANDSCAPED OPEN SPACE - 20%

BUFFERS:
FRONT (NORTH ROAD SR 52) - 15' TYPE D PLANTED BUFFER
SIDE (EAST SMITH RD.) - 15' TYPE A PLANTED BUFFER
SIDE - (WEST) - 10' TYPE A PLANTED BUFFER
REAR - (SOUTH) 10' TYPE A PLANTED BUFFER

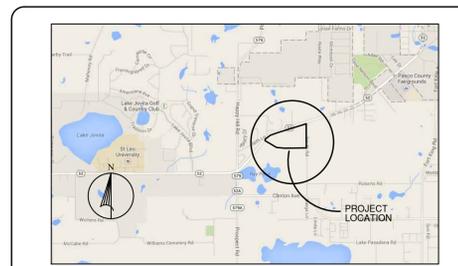
UTILITY EASEMENTS:
AS REQUIRED FOR POWER
NO OTHER EASEMENTS REQD.

PARKING REQUIREMENTS FOR PROPOSED USE:
REQUIRED: LDC 907.1-15 OTHER OUTDOOR ENTERTAINMENT,
SPORT, AND RECREATION
1 SPACE PER 3 PERSONS PLUS 1 SPACE
PER EMPLOYEE

PROVIDED:
19 SPACE PER BASEBALL FIELD
20 SPACES PER SOCCER FIELD
TOTAL PROVIDED 78 PARKING SPACES
(INCLUDING 4 HANDICAP SPACES)

AGENCY AND UTILITY CONTACTS

BUILDING AND PERMITTING PASCO COUNTY CENTRAL PERMITTING 8731 CITIZENS DR. SUITE 230 NEW PORT RICHEY, FL 34654 (727) 847-8126	PLANING AND ZONING PASCO COUNTY ZONING AND INTAKE SITE DEV. 8731 CITIZENS DR. SUITE 230 NEW PORT RICHEY, FL 34654 (727) 847-8142	FIRE DEPARTMENT PASCO COUNTY EMERGENCY SERVICES DEPT. 4111 LAND O' LAKES BLVD, SUITE 208 LAND O' LAKES, FL 34639 (813) 929-2750
WATER/WASTEWATER CITY OF ST. LEO CITY OF DADE CITY PUBLIC WORKS DEPARTMENT 38020 MERIDIAN AVE. DADE CITY, FL 33525 (352) 521-1461	POWER TECO MARY KAY BATES, ENGINEERING TECO (TAMPA ELECTRIC COMPANY) 702 FRANKLIN STREET N. TAMPA, FL 33602	



FIRST BAPTIST CHURCH OF DADE CITY
VICINITY MAP
PSP SIMULTANEOUS SUBMITTAL
SECTION 5, TOWNSHIP 25 SOUTH, RANGE 21

GENERAL NOTES:

1. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD CONDITIONS WHEN POSSIBLE. BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF THE CLEARANCES ARE LESS THAN SPECIFIED ON THE PLANS OR 12", WHICHEVER IS LESS, CONTACT COMMERCIAL SITE SOLUTIONS, INC. (885-813-2032) AND OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
2. THE CONTRACTOR SHALL INCLUDE IN HIS CONTRACT PRICE THE REMOVAL AND DISPOSAL OF ANY EXCESS TOPSOIL HE DETERMINES IS NOT REQUIRED TO PERFORM THE FINAL GRADING AND LANDSCAPING OPERATION.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL REQUIRED/NECESSARY SHEETING, SHORING, AND SPECIAL EXCAVATION MEASURES REQUIRED ON THE PROJECT TO MEET OSHA, FEDERAL, STATE AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THE DRAWINGS. OWNER AND COMMERCIAL SITE SOLUTIONS, INC. ACCEPT NO RESPONSIBILITY FOR THE DESIGN TO INSTALL SAID ITEMS.
4. CALL FLORIDA ONE CALL: UTILITY LOCATOR SERVICE 72 HOURS IN ADVANCE OF DIGGING AT 1-800-432-4770.
5. ALL WORK SHALL CONFORM TO PASCO COUNTY STANDARDS AND SPECIFICATIONS.
6. ALL CURB/HANDICAP RAMP DESIGNS SHALL CONFORM TO ADA OR PASCO COUNTY STANDARDS, WHICHEVER IS MORE RESTRICTIVE.
7. PRE-CAST DRAINAGE AND SANITARY SEWER STRUCTURES HAVE BEEN SPECIFIED ON THE PLANS. OWNER AND COMMERCIAL SITE SOLUTIONS, INC., HOWEVER, ASSUME NO RESPONSIBILITY FOR THESE STRUCTURES AS FIELD CONDITIONS DURING CONSTRUCTION OFTEN DICTATE MINOR ELEVATION ADJUSTMENTS. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY AND EXPENSE FOR MODIFYING THESE STRUCTURES TO ACCOMMODATE THESE FIELD ADJUSTMENTS.
8. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE DAILY RECORD KEEPING OF THE AS-BUILT CONDITION OF ALL OF THE UNDERGROUND UTILITIES. CONSTRUCTION STAKEOUT ASSOCIATED WITH THE PROJECT, PREPARATION OF THE NECESSARY/REQUIRED AS-BUILT WATER AND SEWER PLANS TO BE SUBMITTED TO PASCO COUNTY PUBLIC WORKS DEPARTMENT AND/OR FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, AND ALL OTHER INFORMATION REQUIRED IN CONNECTION WITH OBTAINING PERMITS TO OPERATE AND RELEASE OF BONDS.
9. ALL WATER LINE AND SEWER LINE INSTALLATION SHALL CONFORM TO THE STANDARDS AND DETAILS OF PASCO COUNTY, AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION CONSTRUCTION PERMIT.
10. A COPY OF THE FINANCIAL RESPONSIBILITY FORM AND THE STORM WATER POLLUTION PREVENTION PLAN MUST BE KEPT ON THE WORK SITE AND SHOWN UPON REQUEST.
11. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ALL MATERIAL AND LABOR ASSOCIATED WITH THE TESTING OF THE WATER AND SEWER LINES REQUIRED BY PASCO COUNTY UTILITIES AND PASCO COUNTY BUILDING DEPARTMENT AND FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
12. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ANY DE-WATERING NECESSARY TO CONSTRUCT THE PROJECT AS SHOWN ON THE PLANS.
13. SEDIMENT CONTROL MEASURES MUST BE INSPECTED AND MAINTAINED REGULARLY TO INSURE THAT THE INTENDED PURPOSES ARE ACCOMPLISHED.
14. ALL DRAINAGE STRUCTURES MUST MEET FDOT AND PASCO COUNTY STANDARD SPECIFICATIONS.
15. ALL SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE PROVIDED SITE WORK SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL WITHIN RIGHT OF WAY. THIS IS TO BE DONE IN ACCORDANCE WITH M.U.T.C.D.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR RAZING AND REMOVAL OF THE EXISTING STRUCTURES, RELATED UTILITIES, PAVING, UNDERGROUND STORAGE TANKS AND ANY OTHER EXISTING IMPROVEMENTS AS NOTED.
17. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
18. THE GENERAL CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
19. ALL CONSTRUCTION WITHIN STATE HIGHWAY DEPARTMENT RIGHT-OF-WAY SHALL BE COORDINATED WITH THE HIGHWAY DEPARTMENT RESIDENT MAINTENANCE ENGINEER.
20. ALL SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE RELEVANT UTILITY COMPANY OR REGULATORY AUTHORITY, AND THE SPECIFICATIONS FOR THE CONSTRUCTION OF THE EXISTING IMPROVEMENTS WHICH ARE BEING ALTERED OR REPLACED. CONTRACTOR SHALL CONTACT THE ENGINEER FOR SPECIFICATION SECTIONS FOR ITEMS SUCH AS LANDSCAPING AND IRRIGATION THAT ARE AFFECTED BY THE WORK BUT NOT COMPLETELY DETAILED OR SPECIFIED ON THESE PLANS.

WARRANTY/DISCLAIMER:

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER THE ENGINEER NOR ITS PERSONNEL CAN OR DO WARRANT THESE DESIGNS OR PLANS AS CONSTRUCTED EXCEPT IN THE SPECIFIC CASES WHERE THE ENGINEER INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

SAFETY NOTICE TO CONTRACTOR:

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE.

CONTACT LIST

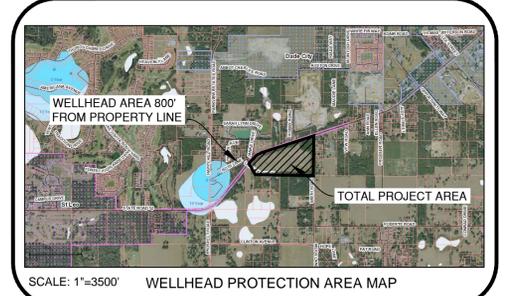
OWNER/DEVELOPER:
DADE CITY FIRST BAPTIST CHURCH
CONTACT: W. PAUL WILLIAMS, JR.
GREENWORKS4U
5135 LAKEWOOD DR.
RIDGE MANOR, FL. 33523
PHONE: 352-428-0390
EMAIL: pwilliams@greenworks4u.com
CHURCH CONTACT: REVEREND RANDY HUCKABEE
37511 CHURCH AVE.
DADE CITY, FL. 33525
PHONE: 352-567-3265

ENGINEER: COMMERCIAL SITE SOLUTIONS, INC.
CONTACT: SCOTT STANNARD, P.E.
21764 STATE ROAD 54
LITZ, FL. 33549
PHONE: 813-885-2032
EMAIL: sstannard@css-eng.com

SURVEYOR:
CHRIS XYNIDES
D.C. JOHNSON AND ASSO.
11911 SOUTH CURLEY STREET
SAN ANTONIO, FL. 3376
PHONE: 352-588-2768
EMAIL: chrisxyndes@djohnson.com

DRAWING LIST

DRAWING LIST	SHEET
COVER SHEET	C-1
TOPOGRAPHIC AND BOUNDARY SURVEY	C-2
GENERAL NOTES	C-3
OVERALL SITE PLAN	C-4
PHASING 1 SITE PLAN	C-4A
SITE DETAILS	C-5
SITE DETAILS	C-6
OVERALL GRADING PLAN	C-7
PHASE 1 GRADING PLAN	C-7A
GRADING, PAVING & STORM DRAIN DETAILS	C-8
GRADING, PAVING & STORM DRAIN DETAILS	C-8A
GRADING, PAVING & STORM DRAIN DETAILS	C-8B
GRADING SECTIONS	C-9
GRADING SECTIONS	C-9A
GRADING SECTIONS	C-9B
GRADING SECTIONS	C-9C
EROSION CONTROL I	C-10
EROSION CONTROL II	C-10A
EROSION CONTROL NOTES	C-10B
EROSION CONTROL DETAILS	C-11
EROSION CONTROL DETAILS	C-11A
EROSION CONTROL DETAILS	C-11B
EROSION CONTROL DETAILS	C-11C
EROSION CONTROL DETAILS	C-11D
UTILITY PLAN	C-12
UTILITY DETAILS	C-13
LIFT STATION DETAIL	C-13A
SIGNING AND MARKING PLAN	C-14
TREE REMOVAL PLAN PHASE 1	L-1.0
LANDSCAPE INTENT PLAN	L-2.0
LANDSCAPE PLAN	L-2.1
LANDSCAPE PLAN	L-2.2



SCALE: 1"=3500' WELLHEAD PROTECTION AREA MAP

ENGINEER:



COMMERCIAL SITE SOLUTIONS, INC.
SITE PLANNING • ENGINEERING • LANDSCAPE ARCHITECTS
21764 STATE ROAD 54
LUTZ, FL 33549
813-885-2032

402 EAST 1ST AVENUE
EASLEY, SC 29640
864-855-5200

OWNER/DEVELOPER:

FIRST BAPTIST CHURCH OF DADE CITY
Contact: Pastor Randy Huckabee
37511 Church Avenue
Dade City, FL 33525
Phone: (352) 567-3265

NOTE: CONVERSION FACTOR FOR NGVD (29) AND NAVD(88)
PER NGS DATA THE CONVERSION FACTOR FOR THIS
LOCATION IS -0.833 FEET FROM NGVD(29) TO NAVD(88)

DESCRIPTION (Church Parcel)

That part of the Northwest 1/4 of the Northeast 1/4, lying South of the right-of-way of State Road #52; AND the Southwest 1/4 of the Northeast 1/4, except that part lying North of State Road; AND the Southeast 1/4 of the Northwest 1/4 lying South of State Road 52, all in Section 5, Township 25 South, Range 21 East, Pasco County, Florida.

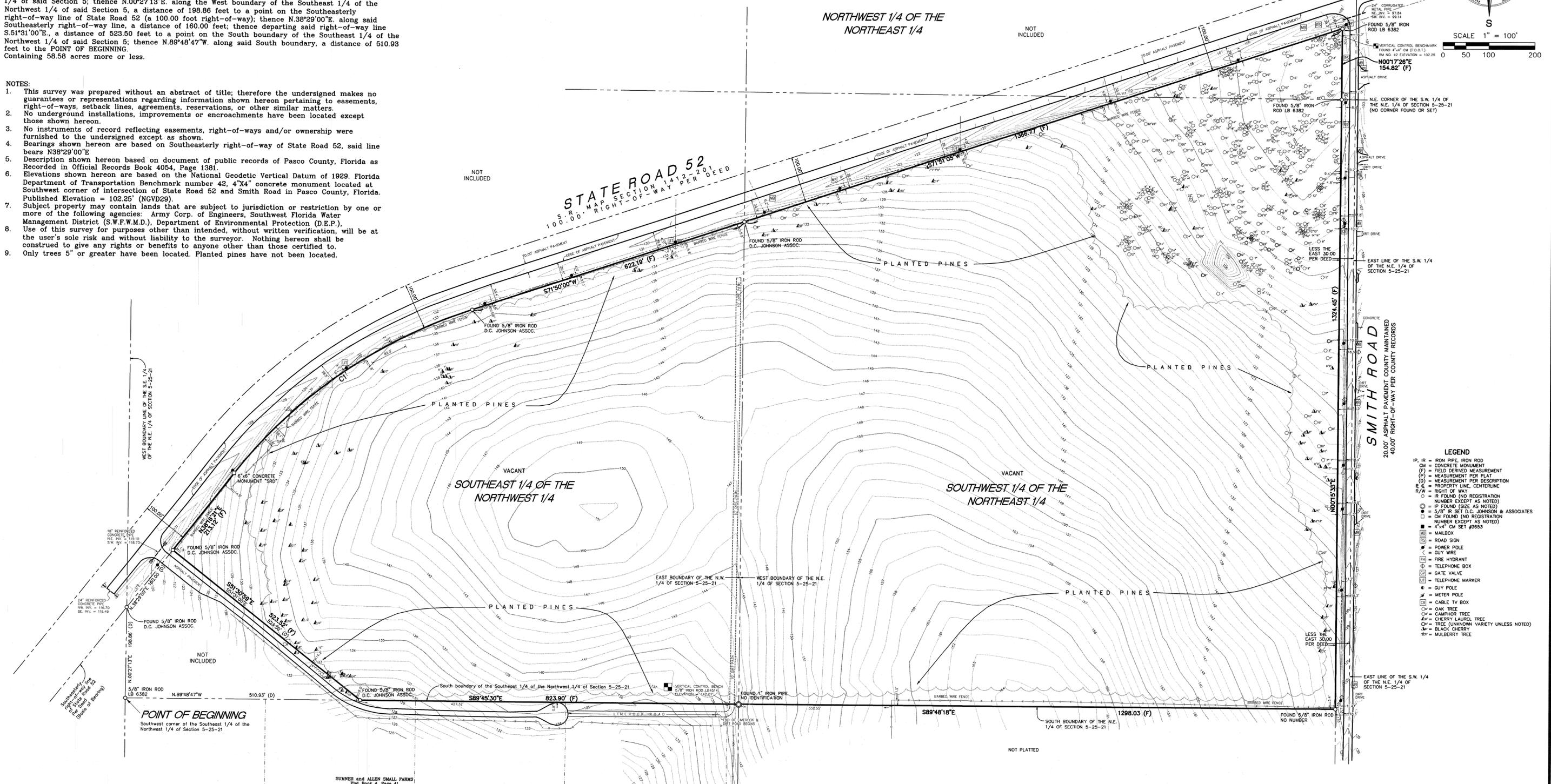
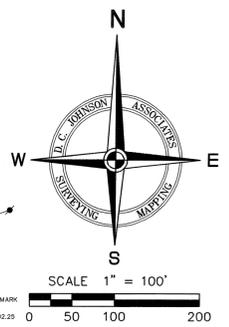
LESS: Land deeded to State of Florida for highway right-of-way; That part of the East 30 feet of the Northwest 1/4 of the Northeast 1/4 South of State Road 52 and the East 30 feet of the Southwest 1/4 of the Northeast 1/4 of Section 5, Township 25 South, Range 21 East. (Right-of-way for Smith Road, in Pasco County, Florida, property donated and deeded to the State of Florida in February, 1997)

ALSO LESS: A portion of the Southeast 1/4 of the Northwest 1/4 of Section 5, Township 25 South, Range 21 East, Pasco County, Florida, being more particularly described as follows:
 For a POINT OF BEGINNING commence at the Southwest corner of the Southeast 1/4 of the Northwest 1/4 of said Section 5; thence N.00°27'13"E. along the West boundary of the Southeast 1/4 of the Northwest 1/4 of said Section 5, a distance of 198.86 feet to a point on the Southeasterly right-of-way line of State Road 52 (a 100.00 foot right-of-way); thence N.38°29'00"E. along said Southeasterly right-of-way line, a distance of 160.00 feet; thence departing said right-of-way line S.51°31'00"E., a distance of 523.50 feet to a point on the South boundary of the Southeast 1/4 of the Northwest 1/4 of said Section 5; thence N.89°48'47"W. along said South boundary, a distance of 510.93 feet to the POINT OF BEGINNING.
 Containing 58.58 acres more or less.

NOTES:

- This survey was prepared without an abstract of title; therefore the undersigned makes no guarantees or representations regarding information shown hereon pertaining to easements, right-of-ways, setback lines, agreements, reservations, or other similar matters.
- No underground installations, improvements or encroachments have been located except those shown hereon.
- No instruments of record reflecting easements, right-of-ways and/or ownership were furnished to the undersigned except as shown.
- Bearings shown hereon are based on Southeasterly right-of-way of State Road 52, said line bears N38°29'00"E
- Description shown hereon based on document of public records of Pasco County, Florida as Recorded in Official Records Book 4054, Page 1381.
- Elevations shown hereon are based on the National Geodetic Vertical Datum of 1929. Florida Department of Transportation Benchmark number 42, 4"x4" concrete monument located at Southwest corner of intersection of State Road 52 and Smith Road in Pasco County, Florida. Published Elevation = 102.25' (NGVD29).
- Subject property may contain lands that are subject to jurisdiction or restriction by one or more of the following agencies: Army Corp. of Engineers, Southwest Florida Water Management District (S.W.F.W.M.D.), Department of Environmental Protection (D.E.P.).
- Use of this survey for purposes other than intended, without written verification, will be at the user's sole risk and without liability to the surveyor. Nothing hereon shall be construed to give any rights or benefits to anyone other than those certified to.
- Only trees 5" or greater have been located. Planted pines have not been located.

A portion of Section 5, Township 25 South, Range 21 East, Pasco county, Florida



CURVE TABLE				
CURVE	DELTA	RADIUS	ARC	CHORD
C1	33°20'33"	1095.92	637.75	628.79
				S55°14'02"W

Date of Field Survey: 11/29/05

Certified to:
Mike Rodgers

For D.C. Johnson & Associates, Inc.
Dennis J. DeHoff
Florida Registered Surveyor and Mapper No. 4289
Florida Licensed Business Number 4514
Not valid without the signature and the original raised seal of a Florida licensed surveyor and mapper.

02/11/08	Added Certified to:	DJD
02/08/06	Added Trees	DJD
11/29/05	Boundary update & Additional Topo (Smith Road)	DJD
DATE	REVISION	BY

JOHNSON ASSOCIATES
SURVEYING AND MAPPING

Boundary & Topographic Survey
PREPARED FOR
First Baptist Church of Dade City
Ray Pond
Proposed Church Site

PROJECT NO.: 98122802 SCALE: 1" = 100'
DRAWN BY: RJD/DJD SHEET 1 OF 1
CHECKED BY: DKD 11/30/05

Phone: (352) 588-2768
Fax: (352) 588-2713
11911 South Curley Street
San Antonio, Florida 33576

GENERAL CONSTRUCTION NOTES:

1. ALL ELEVATIONS REFER TO THE NATIONAL GEODETIC VERTICAL DATUM 1929.
2. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST 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.
3. THE CONTRACTOR SHALL CHECK PLANS 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.
4. 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 1-800-638-4090 OR 811.
5. 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.
6. ALL UNDERGROUND UTILITIES MUST BE IN PLACE AND TESTED OR INSPECTED PRIOR TO ROADWAY BASE AND SURFACE CONSTRUCTION.
7. 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.
8. ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO SHALL BE OF LATEST REVISIONS AND/OR LATEST EDITION.
9. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK. ALL WATER AND WASTE WATER SYSTEMS, BUT NOT LIMITED TO THESE SYSTEMS, ARE TO BE DESIGNED AND CONSTRUCTED ACCORDING TO THE LOCAL GOVERNING AGENCY STANDARDS AND SPECIFICATIONS. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE LOCAL GOVERNING AGENCY STANDARDS AND SPECIFICATIONS, THE LOCAL GOVERNING AGENCY STANDARDS AND SPECIFICATIONS SHALL CONTROL.
10. CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE OWNER'S ENGINEER SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE.
11. AT LEAST 3 WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND APPROPRIATE AGENCIES AND SUPPLY THEM WITH ALL APPROVED 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.
12. 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 AND UTILITY COMPANIES.
13. ALL DISTURBED AREAS WITHIN PUBLIC RIGHTS-OF-WAY ARE TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.
14. 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 IS TO BE ALLOWED.
15. ALL DISTURBED AREAS ASSOCIATED WITH CONSTRUCTION, WHICH ARE NOT TO BE SODDED ARE TO BE SEEDED AND MULCHED TO LOCAL GOVERNING AGENCY STANDARDS AND MAINTAINED UNTIL A SATISFACTORY STAND OF GRASS OBTAINABLE TO THE REGULATORY AGENCY AND ENGINEER OF RECORD HAVE BEEN OBTAINED. ANY WASHOUTS, REGARDING, RESEEDING, AND GRASSING WORK, AND OTHER EROSION WORK REQUIRED, WILL BE PERFORMED BY THE CONTRACTOR/SUBCONTRACTOR UNTIL THE SYSTEM IS ACCEPTED FOR MAINTENANCE BY THE REGULATORY AGENCY AND ENGINEER OF RECORD.
16. IF GAS LINES ARE PRESENT OR MAY BE SUSPECTED IN THE CONSTRUCTION AREA-CHAPTER 77-153 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO WORKING DAYS 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 COMPANY TWO WORKING DAYS BEFORE ENTERING A CONSTRUCTION AREA.
17. ALL SIDEWALKS TO BE IN ACCORDANCE WITH CURRENT ADA REGULATIONS AND STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT ALL SIDEWALK CONFIGURATION IS IN COMPLIANCE WITH THE CURRENT LOCAL, STATE AND NATIONAL ADA CODE RELATIVE TO SIDEWALKS, ROAD CROSSINGS, AND OTHER PEDESTRIAN AREAS.2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT ALL ASPECTS OF THE SIDEWALK CONFIGURATION IS IN COMPLIANCE WITH CURRENT DOT SIDEWALK STANDARDS AS DESCRIBED IN FOOT INDEX 304.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL 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.
19. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH TO THE ENGINEER A SET OF DRAWINGS MARKED 'AS-BUILT DRAWINGS' THE DRAWINGS ARE TO BE SUBSTANTIALLY COMPLETE AND IN ACCORDANCE WITH THE APPROVED PLANS AND DETAILS. ANY AND ALL DEVIATIONS FROM THE APPROVED PLANS AND DETAILS SHALL BE CLEARLY ANNOTATED ON THE DRAWINGS. THE AS-BUILT DRAWINGS SHALL PRESENT A COMPLETE AND ACCURATE VISUAL REPRESENTATION OF THE LOCATION OF ANY AND ALL FACILITIES INSTALLED. THIS INCLUDES LOCATES ON:
 1. ALL WATERMAIN, VALVE, AIR RELEASE AND TEE LOCATIONS (TWO LOCATIONS). THIS MAY INCLUDE ANY LOCATES ON WATER SERVICE POINTS, HYDRANTS. ALL WATER LINE BLOW OFF AND CHLORINATION MUST BE CLEARLY LOCATED AND LABELED TO CORRELATE WITH TESTING.
 2. ALL SANITARY STRUCTURES AND SYSTEMS MUST BE SHOWN ON 'AS BUILT' DRAWINGS. LOCATES, LINE SLOPES, SIZES, AND ELEVATIONS OF ALL FEATURES INCLUDING LIFT STATIONS MUST BE SHOWN AND CERTIFIED BY SURVEYOR.
 3. ALL STORMWATER SYSTEMS MUST BE SHOWN GIVING ALL REQUIRED INFORMATION INCLUDING STRUCTURE SIZES, CREST/TWEIR ELEVATION AND WIDTH, LINE SIZES AND SLOPES AND ELEVATIONS ON INSTALLED FEATURES.
 4. LOCAL AGENCIES MAY REQUIRE ADDITIONAL LOCATES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE REQUIREMENTS AND FURNISH REQUIRED INFORMATION TO THE ENGINEER.

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4. LOCAL AGENCIES MAY REQUIRE ADDITIONAL LOCATES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE REQUIREMENTS AND FURNISH REQUIRED INFORMATION TO THE ENGINEER.

1. ALL WATERMAIN, VALVE, AIR RELEASE AND TEE LOCATIONS (TWO LOCATIONS). THIS MAY INCLUDE ANY LOCATES ON WATER SERVICE POINTS, HYDRANTS. ALL WATER LINE BLOW OFF AND CHLORINATION MUST BE CLEARLY LOCATED AND LABELED TO CORRELATE WITH TESTING.
2. ALL SANITARY STRUCTURES AND SYSTEMS MUST BE SHOWN ON 'AS BUILT' DRAWINGS. LOCATES, LINE SLOPES, SIZES, AND ELEVATIONS OF ALL FEATURES INCLUDING LIFT STATIONS MUST BE SHOWN AND CERTIFIED BY SURVEYOR.
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COUNTY/SWFWMD NOTIFICATION

SHOULD ANY NOTICEABLE SOIL SLUMPING OR SINKHOLE FORMATION BECOME EVIDENT, THE APPLICANT/DEVELOPER SHALL IMMEDIATELY NOTIFY THE COUNTY, TAMPA BAY WATER (TBW), AND SWFWMD, AND ADOPT ONE OR MORE OF THE FOLLOWING PROCEDURES AS DETERMINED TO BE APPROPRIATE BY THE COUNTY AND SWFWMD:

1. IF THE SLUMPING OR SINKHOLE FORMATION BECOMES EVIDENT BEFORE OR DURING CONSTRUCTION ACTIVITIES, STOP ALL WORK (EXCEPT FOR MITIGATION ACTIVITIES) IN THE AFFECTED AREA AND REMAIN STOPPED UNTIL THE COUNTY AND SWFWMD APPROVE RESUMING CONSTRUCTION ACTIVITIES.
2. TAKE IMMEDIATE MEASURES TO ENSURE NO SURFACE WATER DRAINS INTO THE AFFECTED AREAS.
3. VISUALLY INSPECT THE AFFECTED AREA.
4. EXCAVATE AND BACKFILL OR GROUT AS REQUIRED TO FILL THE AFFECTED AREA AND PREVENT FURTHER SUBSIDENCE.
5. USE SOIL REINFORCEMENT MATERIALS IN THE BACKFILLING OPERATION, WHEN APPROPRIATE.
6. IF THE AFFECTED AREA IS IN THE VICINITY OF A WATER-RETENTION AREA, MAINTAIN A MINIMUM DISTANCE OF TWO FEET FROM THE BOTTOM OF THE RETENTION POND TO THE SURFACE OF THE LIME-ROCK OR KARST CONNECTION.
7. IF THE AFFECTED AREA IS IN THE VICINITY OF A WATER-RETENTION AREA AND THE ABOVE METHODS DO NOT STABILIZE THE COLLAPSE, RELOCATE THE RETENTION AREA.
8. DISCHARGE OF STORM-WATER INTO DEPRESSIONS WITH DIRECT OR DEMONSTRATED HYDROLOGIC CONNECTION TO THE FLORIDIAN AQUIFER SHALL BE PROHIBITED.
9. THE SITE SHALL BE GRADED TO WITHIN 12 INCHES OF THE FINAL GRADE. WHERE FILL IS PROPOSED IT SHALL BE PLACED IN COMPLIANCE WITH THE GEOTECHNICAL/GEOLOGICAL ENGINEERING REPORT RECOMMENDATIONS (INCLUDING ANY LIFT DEPTHS RECOMMENDED) AND COMPACTED TO A MINIMUM DENSITY OF 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. DENSITY TESTS TO CONFIRM COMPACTION SHALL BE REQUIRED WITHIN THE BUILDING PAD AREA, BEFORE THE NEXT LIFT IS PLACED.

UPON COMPLETION OF THE LAND DEVELOPMENT CONSTRUCTION, A PROFESSIONAL ENGINEER SHALL PROVIDE A CERTIFICATION TO PASCO COUNTY THAT THE PROJECT, INCLUDING EACH PAD AREA, COMPLIES WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL/GEOLOGICAL ENGINEERING REPORT.

MAINTENANCE OF TRAFFIC (ROAD AND SIDEWALK)

1. IN THE EVENT THE CONDITIONS OF CONSTRUCTION HAVE CHANGED THE CONTRACTOR IS TO CONTACT THE ENGINEER FOR MOT. UNLESS OTHERWISE SPECIFIED SEE FOOT INDEX 600 FOR ALL MOT SPECIFICATIONS, METHODS AND APPLICATIONS. UNLESS OTHERWISE SPECIFIED WHEN CONNECTING A DRIVEWAY OR ROAD WAY IS MADE USE FOOT INDEX 603 FOR TWO-LANE, TWO-WAY RURAL OPERATIONS ONE DAYLIGHT PERIOD OR LESS.
2. THE CONTRACTOR IS TO CONTACT THE ENGINEER FOR ANY MODIFICATIONS, CLOSURE OR OBSTRUCTION TO SIDEWALKS, DRIVEWAYS OR PEDESTRIAN TRAFFIC VAYS BEFORE ANY WORK MAY PROCEED. REDIRECTION OF PEDESTRIAN TRAFFIC MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND GOVERNING AGENCY BEFORE ANY ACTION IS TAKEN.

GRADING, EROSION / SEDIMENT CONTROL, NATURAL RESOURCE PROTECTION:

1. EROSION CONTROL- THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIERS (HAY BALE, SLOTTED CURTAIN), AS SHOWN ON PLANS, AND AS REQUIRED TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WETLANDS, AND WATERWAYS. IN ADDITION, THE CONTRACTOR SHALL PLACE STRAW, MULCH, GRAVEL, OR OTHER SUITABLE MATERIAL ON THE GROUND, AS REQUIRED, IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. 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 VEHICLE TRAFFIC, THE CONTRACTOR IS TO REMOVE AND CLEAN SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR LOCAL AUTHORITIES. EROSION CONTROL BARRIERS MUST BE ERRECTED PRIOR TO LAND ALTERATION, INSPECTED DAILY AND MAINTAINED EFFECTIVELY DURING CONSTRUCTION, THEN REMOVED FOLLOWING SOIL STABILIZATION. ALL EROSION SEDIMENT AND STORMWATER CONTROLS SHALL CONFORM TO THE FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTORS MANUAL.

2. ANY AND ALL SILT LEAVING THE SITE IS THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR.
3. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE.
4. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION CONTROL DEVICES MUST BE USED AS REQUIRED.

5. THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.

6. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE UTILIZED FOR EROSION CONTROL.

7. SEDIMENT/EROSION CONTROL DEVICES SHALL BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE SHALL BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE.

8. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION BY THE ISSUING AUTHORITY.

9. DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY, OR OTHER EQUIPMENT OF ANY KIND WITHIN THE COUNTY RIGHTS-OF-WAY.

10. CONTRACTOR SHALL SPRINKLE OR OTHERWISE APPLY WATER TO AFFECTED CONSTRUCTION AREA TO CONTROL BOTH SIGNIFICANT WIND EROSION OR FUGITIVE DUST.

11. REQUIRED TREE BARRICADES AND EROSION CONTROL MEASURES MUST REMAIN INTACT THROUGHOUT CONSTRUCTION. ENCROACHMENT INTO OR FAILURE TO MAINTAIN TREE BARRICADES WILL RESULT IN ENFORCEMENT ACTION WHICH MAY INCLUDE CITATIONS AND/OR PERMIT REVOCATION.

12. ALL TRIMMING UNDERTAKEN ON A TREE PROTECTED BY THE PROVISIONS ON THE LAND DEVELOPMENT CODE SHALL BE IN ACCORDANCE WITH THE NATIONAL ARBORIST ASSOCIATION (NAA) PRUNING STANDARDS.

13. DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE TO REMAIN ON THE SITE UNLESS OTHERWISE APPROVED BY THE OWNER AND LOCAL AUTHORITIES.

14. NO GRADE CHANGES SHALL OCCUR WITHIN THE DRIPLINE OF TREES TO REMAIN.

15. ALL TREE ROOTS EXISTING WITHIN APPROVED IMPROVEMENT AREAS AND ORIGINATING FROM A PROTECTED TREE, SHALL BE SEVERED CLEAN AT THE LIMITS OF THE UTILITY TRENCH AREAS WHEREVER THEY ARE WITHIN 120' OF A TREE TO BE PRESERVED.

16. CONTRACTOR SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING POLLUTION CONTROL OF STORED MATERIALS, FUEL, EQUIPMENT, OR OTHER HAZARDOUS MATERIALS USED ON SITE. ALL CONSTRUCTION DEBRIS SHALL BE STOCKPILED IN MANNER THAT DOES NOT CAUSE SOIL, AIR, OR WATER POLLUTION ON SITE UNTIL DISPOSED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

17. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NECESSARY DEWATERING PERMITS FROM THE APPLICABLE FLORIDA WATER MANAGEMENT DISTRICT OR OTHER REGULATORY AGENCY. CONTRACTOR SHALL PROVIDE A DETAILED PLAN TO CONTROL SEDIMENT DISCHARGE TO OTHER WATER BODIES OR OFFSITE SO THAT WATER QUALITY COMPLIES WITH LOCAL, STATE, AND FEDERAL TURBIDITY PARAMETERS. CONTRACTOR SHALL DIRECT TURBID WATER TO TEMPORARY SETTLING BASINS WITH VEGETATIVE AND/OR STABILIZED FLOW TO OFFSITE DISCHARGE AREA.

18. THERE IS TO BE NO DISCHARGE (I.E. PUMPING, SHEET FLOW, SWALE, DITCH, ETC.) INTO EXISTING DITCHES OR CANALS WITHOUT THE USE OF SETTLING PONDS. IF THE CONTRACTOR DESIRES TO DISCHARGE INTO THE EXISTING DITCHES OR CANALS A SETTLING POND PLAN PREPARED BY THE CONTRACTOR MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD AND SOUTH FLORIDA MANAGEMENT DISTRICT, AND/OR FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION PRIOR TO CONSTRUCTION.

19. ALL EFFORTS MUST BE UNDERTAKEN TO PREVENT ANY EROSION OR TURBID WATER FROM BEING DISCHARGED INTO WETLANDS AND/OR WATER OF THE COUNTY. TURBID DISCHARGES THAT EXCEED 50 JTUS (JACKSON TURBIDITY UNITS) OR 29 NTUS (NEPHELOMETRIC TURBIDITY UNITS) ABOVE BACKGROUND LEVELS ARE A VIOLATION. HAY BALES, SILT SCREENS OR OTHER APPROVED METHODS OR EROSION/TURBIDITY CONTROL MAY BE REQUIRED. IT IS THE RESPONSIBILITY OF THE OWNER/DEVELOPER TO INSURE THE INSTALLATION OF ADEQUATE EROSION CONTROL BARRIERS PRIOR TO THE COMMENCEMENT OF ANY SITE WORK. THESE EROSION CONTROL DEVICES MUST BE MAINTAINED IN GOOD CONDITION THROUGHOUT THE CONSTRUCTION PROCESS AND UNTIL ALL LOOSE SOILS HAVE STABILIZED. IT IS STRONGLY RECOMMENDED THAT ALL EROSION CONTROL DEVICES BE REGULARLY INSPECTED DURING CONSTRUCTION AND MODIFIED IF CONDITIONS WARRANT.

20. ANY FILL TO BE PLACED WITHIN THE 100 YEAR FLOOD PLAIN SHALL BE COMPACTED ACCORDING TO FEMA REQUIREMENTS TO PREVENT SETTLEMENT BELOW THE 100 YEAR FLOOD AND AN ENGINEER SHALL CERTIFY THAT ALL FEMA REQUIREMENTS HAVE BEEN MET.

STORMWATER POND CONSTRUCTION NOTES

1. IN THE INITIAL PHASE, PHASE I, CONSTRUCT THE STORMWATER RETENTION POND BY UNDER EXCAVATING THE POND BOTTOM AND SIDES BY A MINIMUM OF TWELVE INCHES. IF POSSIBLE, THE OUTFALL STRUCTURE SHOULD BE INSTALLED AS DESIGNED DURING THIS INITIAL PHASE OF RETENTION POND CONSTRUCTION. THE RETENTION POND SHOULD REMAIN UNDERCUT UNTIL ALL CONSTRUCTION HAS BEEN COMPLETED AND, IF POSSIBLE, THE POND SHOULD BE ALLOWED TO STABILIZE FOR A PERIOD OF ONE MONTH AFTER COMPLETION OF CONSTRUCTION PRIOR TO COMPLETING FINAL POND EXCAVATION.
2. THE SECOND PHASE OF CONSTRUCTION, PHASE II, ON THE RETENTION POND SHOULD BE INITIATED AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED AND AT LEAST ONE MONTH HAS BEEN ALLOWED FOR RUNOFF STABILIZATION WITHIN THE EFFECTIVE STORMWATER RUNOFF AREA OF THE POND. THE PHASE II CONSTRUCTION SHOULD CONSIST OF EXCAVATION OF THE RETENTION POND INTERIOR SLOPES AND POND BOTTOM TO THE DESIGN SPECIFICATIONS. THE EXCESS SOIL AND UNDESIRABLE MATERIAL SHOULD BE CAREFULLY EXCAVATED AND REMOVED FROM THE POND SO THAT ALL ACCUMULATED SILTS, CLAYS, ORGANICS AND OTHER FINE SEDIMENT MATERIAL HAS BEEN REMOVED FROM THE POND AREA. THE EXCAVATED MATERIAL SHOULD BE DISPOSED OF BEYOND THE LIMITS OF THE DIRECT SURFACE RUNOFF AREA OF THE RETENTION POND.
3. ONCE THE RETENTION POND HAS BEEN EXCAVATED TO THE DESIRED ELEVATION, THE ENTIRE POND BOTTOM SHOULD BE DEEP PAKED AND LOOSENED TO CREATE A PERMEABLE POND BOTTOM FOR OPTIMUM PERCOLATION.
4. ALL POND SLOPES SHOULD BE SODDED IMMEDIATELY AFTER COMPLETION OF PHASE II CONSTRUCTION OF THE POND. THE POND BOTTOM SHOULD BE SEEDED AND MULCHED. AREA OVER UNDERDRAINS MUST HAVE A MINIMUM 4" BLANKET OF STONE.
5. CONSTRUCTION TRAFFIC SHOULD NOT BE ALLOWED ON THE POND BOTTOM AFTER DEEP RAKING TO AVOID COMPACTION.

SANITARY SEWER NOTES:

1. A HORIZONTAL SEPARATION OF 6 FEET SHALL BE MAINTAINED BETWEEN WATER MAINS AND SANITARY SEWER. MAINTAIN 18" VERTICAL SEPARATION BETWEEN WATER AND SEWER SYSTEM.
2. ALL SANITARY SEWER FORCE MAINS SHALL BE CONSTRUCTED OF POLY/VINYL CHLORIDE PIPE, C-900 DR-21.
3. ALL SANITARY SEWER WORK SHALL CONFORM WITH FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STANDARDS AND SPECIFICATIONS.
4. ALL SANITARY SEWER COVERS SHALL BE U.S. FOUNDRY 170-W OR APPROVED EQUAL. IN DOT RIGHT-OF-WAY, FRAME AND LID TO BE 170-8J (U.S. FOUNDRY).
5. SANITARY SEWER MAINS AND LATERALS SHALL HAVE A MINIMUM COVER OF THREE (3) FEET AND SHALL BE INSTALLED ACCOMPANIED BY A METAL TAPE SIMILAR TO "TERRATAPE" COLORED GREEN AND LAID ONE FOOT ABOVE THE PIPE.
6. ALL PIPING SHALL BE COLOR CODED IN ACCORDANCE WITH LOCAL AUTHORITY HAVING JURISDICTION PUBLIC WORKS DEPARTMENT STANDARDS:
GREEN - RAW SEWAGE PURPLE - EFFLUENT BLUE - POTABLE WATER
7. PIPE AND FITTINGS FOR P.V.C. GRAVITY SEWER PIPE SHALL MEET THE REQUIREMENTS OF A.S.T.M. SPECIFICATION D-3034 SDR 26. ALL FORCE MAINS TO BE C900 DR 25.
8. SEWER DEEPER THAN 10 FT REQUIRED TO BE MIN OF SDR 26 PVC PIPE.
9. SANITARY SEWER LOCATOR TAPE REQUIRED T BE 18" ABOVE ALL PVC MAINS, FORCE MAIN LOCATOR TAPE REQUIRED ABOVE ALL FORCE MAINS.
10. ALL SANITARY SEWER FORCE MAINS REQUIRED TO HAVE LOCATOR WIRE INSTALLED DIRECTLY ON TOP OF PIPE.
11. ANY PIPE IN PAVED AREAS AND OTHER AREAS HAVING LESS THAN 36" OF COVER WHICH MUST SUPPORT VEHICLE WEIGHT, SHALL BE APPROVED DUCTILE IRON PIPE, SCHEDULE 80 PVC OR SDR 18 (C-900 BELL AND SPIGOT PVC.
12. ANY PIPE WITH LESS THAN 12" OF COVER TO BE APPROVED DUCTILE IRON PIPE.
13. SEWER MAINS AND MANHOLES MUST BE INSPECTED AND APPROVED PRIOR TO ANY CONNECTION OF SERVICE LINES TO THE MAINS.
14. MANHOLE COVERS IN PAVED AREAS ARE TO BE FLUSH WITH THE TOP OF PAVEMENT. MANHOLES IN NON-PAVED AREAS ARE TO BE EXACTLY 3" ABOVE FINISHED GRADE.
15. NO FREE DROP OVER EIGHTEEN INCHES IS PERMITTED IN MANHOLES.

16. MANHOLE COATINGS SHALL BE APPLIED TO CLEAN, DRY, STRUCTURALLY SOUND CONCRETE SURFACES. THE SURFACE PREPARATION, APPLICATION, AND CURING PROCEDURES FOR THE COATING TO BE APPLIED SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL GROUTED AREAS IN MANHOLES SHALL BE COATED. MANHOLES INTO WHICH A FORCE MAIN DISCHARGES SHALL BE LINED. INTERIOR LINER (NEW PRE-CAST CONCRETE STRUCTURES) INTERIOR LINER SHALL BE "DURA PLATE 100" PVC LINER AS MANUFACTURED BY A.LOC, INC.; "AGRU SURE GRIP" PP-R (POLYPROPYLENE RANDOM COPOLYMER) LINER AS MANUFACTURED BY ALOIS GRUBER GMBH, OR APPROVED EQUAL. AS SPECIFIED ON THE DESIGN DRAWINGS. INTERIOR SURFACES OF PRE-CAST STRUCTURES RECEIVING FORCEMAIN DISCHARGE SHALL BE PROTECTED FROM PHYSICAL AND CHEMICAL DETERIORATION. THE LINER SHALL COVER ALL INTERIOR WALL AND TOP SURFACES AND SHALL BE FORMED INTO THE CONCRETE SURFACE DURING THE PRE-CASTING PROCESS AND HELD IN PLACE BY IMBEDDED RIBS. THE LINER SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFIC INSTRUCTIONS OF THE MANUFACTURER. THE CONNECTOR FOR PIPE INGRESS THROUGH THE PRE-CAST STRUCTURE SHALL BE "A-LOK" AS MANUFACTURED BY A-LOC, INC.; SPECIFIC RECOMMENDATION OF ALOIS GRUBER GMBH, OR APPROVED EQUAL.

WATER SYSTEM NOTES:

1. SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS CROSSING WATER MAIN SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHENEVER POSSIBLE.

WHERE SANITARY SEWERS, FORCE MAINS, RECLAIMED WATER MAINS AND STORM SEWERS MUST CROSS A POTABLE WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE: (1) BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. (DIP IS NOT REQUIRED FOR STORM SEWERS IF IT IS NOT AVAILABLE IN THE SIZE PROPOSED / ALSO, A SANITARY SEWER OR FORCE MAIN MAY BE C900 PVC AT THE CROSSING) SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS (2) ALTERNATIVELY, ONE OF THE CROSSING MAINS SHALL BE ENCLOSED WITH A 20 FOOT LONG STEEL OF PVC CASING CENTERED ON THE CROSSING. WHERE WATER MAIN CROSSES BELOW SEWER MAIN, ENCASEMENT OF BOTH MAINS IS MANDATORY.

- ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE AND MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT THE CROSSING.

ALL CROSSING SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).

WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE, THE NEW PIPE SHALL BE CONSTRUCTED OF DIP AND THE CROSSING SHALL BE ARRANGED TO MEET THE REQUIREMENTS ABOVE.

PARALLEL INSTALLATIONS

2. A MINIMUM OF 10 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.

IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATION, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR THE FORCE MAIN SHALL BE CONSTRUCTED OF DIP (IF AVAILABLE IN THE SIZE PROPOSED) WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM THE JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS)

3. ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.

4. ALL ON-SITE PVC WATER MAINS 4-12 INCHES SHALL BE ACCORDANCE WITH AWWA C-900 STANDARDS DR18 (CLASS 150) AND HAVE THE O.D. DUCTILE IRON. ALL ON-SITE PVC WATER MAINS 2-3 INCHES SHALL BE CLASS 1120 OR 1220 (SDR 21) AND MEET REQUIREMENTS OF ASTM D-2241. WATER MAINS SMALLER THAN 2 INCHES SHALL BE P.E. MEETING AWWA C-901. IPE SHALL BE POLY-LE DRISCOO PIPE 5100 ULTRALINE OR ENDUPORE BY ENDOT OR APPROVED EQUAL. PIPE SHALL BE ENCLOSED IN BLUE SLEEVE. WATER MAINS 14" THRU 36" SHALL BE AWWA C-905 DR21.

5. ALL DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI STANDARDS A21.51, MINIMUM CLASS 50.

6. CONFLICTS BETWEEN WATER AND STORM OR SANITARY SEWER TO BE RESOLVED BY ADJUSTING THE WATER LINES AS NECESSARY.

7. CONTRACTOR TO INSTALL TEMPORARY BLOW-OFFS AT THE END OF WATER SERVICE LATERALS TO ASSURE ADEQUATE FLUSHING AND DISINFECTION.

8. RESTRAINTS SHALL BE PROVIDED AT ALL FITTINGS AND HYDRANTS AS SHOWN ON DETAILS.

9. ALL PCV WATER MAINS 4" THROUGH 12" SHALL BE IN ACCORDANCE WITH AWWA C-900. PIPE SHALL BE CLASS 150 AND MEET THE REQUIREMENTS OF SDR 18 IN ACCORDANCE WITH ASTM D-2241.

10. MATERIALS AND CONSTRUCTION METHODS FOR WATER DISTRIBUTION SYSTEM SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION CODES, PLANS, AND SPECIFICATIONS FOR CONSTRUCTION, LATEST REVISION THEREOF AND SUPPLEMENTAL SPECIFICATIONS THERETO. APPROVAL AND CONSTRUCTION OF ALL POTABLE WATER SERVICE MAIN EXTENSIONS AND CONNECTIONS MUST BE COORDINATED THROUGH THE LOCAL GOVERNING AGENCY

11. ALL WATER SERVICES TO BE COORDINATED WITH THE ARCHITECTURAL / MECHANICAL / FIRE PREVENTION DRAWINGS AND OR ENGINEERS RESPONSIBLE FOR THE FIRE PROTECTION SYSTEMS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THE COORDINATION OF THE WATER SERVICE AND THE REQUIRED FIRE PROTECTION SERVICES TO THE BUILDINGS, UNITS OR FACILITIES INCLUDED IN THIS CONSTRUCTION.

12. DUCTILE IRON PIPE AND FITTINGS SHALL RECEIVE AN EXTERIOR BITUMINOUS COATING AS SPECIFIED IN AWWA C 104, C 150, OR C 151 AND SHALL BE EPOXY LINED WITH A CHEMICALLY CURED, TWO COMPONENT EPOXY MATERIAL, HAVING A MINIMUM 24 MILS DRY THICKNESS AS SPECIFIED IN A WW A C550 AND/OR A WW A C210. PERMEABILITY SHALL BE IN ACCORDANCE WITH ASTM D1653. ALTERNATELY, DUCTILE IRON PIPE AND FITTING LINER MAY BE OF FUSION BONDED POLYETHYLENE, HAVING A NOMINAL THICKNESS OF 40 MILS, AND A MINIMUM THICKNESS OF 35 MILS. THE POLYETHYLENE LINING SHALL MEET THE REQUIREMENTS OF ASTM D1238. CEMENT LINED AND COAL TAR EPOXY LINED DUCTILE IRON PIPE AND FITTINGS ARE NOT ACCEPTABLE FOR WASTEWATER APPLICATIONS.

FDOT OR WORK IN THE ROW STANDARD NOTES:

1. ALL MATERIALS AND CONSTRUCTION WITHIN THE FDOT RIGHT-OF-WAY SHALL CONFORM TO THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION), STANDARD SPECIFICATIONS (LATEST EDITION) AND THE SUPPLEMENTS THERETO.

2. THE ENGINEER OR HIS DESIGNEE WILL CONDUCT CONSTRUCTION INSPECTION TO INSURE THAT THE MAINTENANCE OF TRAFFIC PLAN (MOT) FOR THE PROJECT IS IN ACCORDANCE WITH THE APPLICABLE FDOT INDEX NUMBERS (600 SERIES) AND THESE DOCUMENTS: THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (U. S. DEPARTMENT OF TRANSPORTATION, FHWA).

3. AT THE END OF EACH WORK PERIOD, ANY DROP-OFF IN THE AREA ADJACENT TO THE TRAVEL WAY OF THE STATE ROAD SHALL BE BACKFILLED IN ACCORDANCE WITH STANDARD INDEX 600 OR SHALL BE OTHERWISE PROTECTED WITH TEMPORARY BARRIER WALL AT THE CONTRACTOR'S EXPENSE.

4. IF THE PERMITTED WORK IS ON A ROADWAY THAT HAS BEEN SELECTED AS A HURRICANE OR DISASTER EVACUATION ROUTE, THE APPLICANT, AT THE PRE-CONSTRUCTION CONFERENCE IS REQUIRED TO PRESENT AS PART OF THE WORK PLAN, AN EMERGENCY FUNCTIONAL RESTORATION PLAN TO ADDRESS EVENTUALITIES SUCH AS HURRICANES.

5. THE CONTRACTOR MUST CALL THE APPROPRIATE COUNTY TRAFFIC ENGINEERING DIVISION, HAVING JURISDICTION OVER THE PROJECT AT LEAST 48 HOURS, BEFORE ANY EXCAVATION WITHIN THE FDOT RIGHT-OF-WAY TO DETERMINE THE LOCATION OF THE EXISTING TRAFFIC SIGNAL INTERCONNECT CABLE.

6. THE LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION DURING CONSTRUCTION. RELOCATION OF UTILITIES SHALL BE COORDINATED WITH UTILITY COMPANIES AFTER IDENTIFICATION OF CONFLICT BY CONTRACTOR. CONTRACTOR WILL NOTIFY ENGINEER IN ADVANCE BEFORE ANY RELOCATION.

7. BEFORE CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR MUST CONTACT THE FDOT LOCAL MAINTENANCE OFFICE TO SCHEDULE A PRE-CONSTRUCTION MEETING IF THE ROW IS FDOT.

8. THE APPLICANT AT THE EARLIEST CONVENIENT TIME SHALL NOTIFY IN WRITING ALL RIGHT-OF-WAY USERS AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.

9. ALL CURB CUT RAMPS MUST FACE IN THE DIRECTION OF PEDESTRIAN TRAVEL.

10. SPECIFY THE ALPHANUMERIC IDENTIFICATION FOR THE CURB CUT RAMPS PER STANDARD INDEX 304. A COPY OF THE APPROPRIATE DETAIL(S).

11. AT THE END OF EACH WORK PERIOD, ANY DROP-OFF IN THE AREA ADJACENT TO THE TRAVEL WAY OF THE STATE ROAD SHALL BE BACKFILLED IN

SITE NOTES

- A. ALL DIMENSIONS SHOWN ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
- B. UNLESS OTHERWISE SHOWN, CALLED OUT OR SPECIFIED HEREON ALL CURBING ADJACENT TO CONCRETE PAVING SHALL BE 6" INTEGRAL CURBING. CURB AND GUTTER NEXT TO ASPHALT SHALL BE TYPE 'F' MODIFIED CURB AND GUTTER.
- C. IF DEMOLITION OF EXISTING PAVEMENT AND UTILITIES IS A PART OF THIS CONSTRUCTION PACKAGE, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AND STEPS TO INSURE THAT ALL ADJOINING PROPERTIES ARE PROTECTED FROM DAMAGE AND TO INSURE THAT ALL ADJOINING PROPERTIES RETAIN ALL UTILITY SERVICES DURING THE DURATION OF THE CONSTRUCTION.
- D. IF DEMOLITION OR CONSTRUCTION ON SITE WILL INTERFERE WITH THE ADJACENT PROPERTY OWNER'S TRAFFIC FLOW, THE CONTRACTOR SHALL COORDINATE WITH THE ADJACENT PROPERTY OWNER, TO MINIMIZE THE IMPACT ON TRAFFIC FLOW. TEMPORARY RE-ROUTING OF TRAFFIC IS TO BE ACCOMPLISHED BY USING DOT APPROVED TRAFFIC BARRICADES, BARRELS, AND/OR CONES. TEMPORARY SIGNAGE AND FLAGMEN MAY BE ALSO NECESSARY.
- E. CONTRACTOR TO PROTECT ALL EXISTING LANDSCAPE NOTED TO BE SAVED.
- F. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEEDED/SODDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- G. THE PROPOSED MASTER STORMWATER POND WILL SERVE THE ENTIRE DEVELOPMENT PROPERTY.
- H. THE LOCATION OF THE CONSTRUCTION FENCE ON THE DRAWINGS IS FOR GRAPHICAL REPRESENTATION ONLY. THE CONTRACTOR IS TO ENSURE THAT THE CONSTRUCTION FENCE ENCOMPASSES THE ENTIRE WORK AREA. ALL DIMENSIONS, UNLESS OTHERWISE NOTED, ARE TO FACE OF CURB, OUTSIDE FACE OF BUILDING (BLOCK), OR CENTERLINE OF PARKING BAY. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF ALL ENTRY/EXIT PORCHES AND PRECISE BUILDING DIMENSIONS.
- J. UNLESS OTHERWISE NOTED, PAVEMENT SHALL BE STANDARD DUTY CONCRETE.
- K. ALL HANDICAP SPACES ARE TO RECEIVE A HANDICAP SIGN AND SYMBOL PAINTED ON THE ASPHALT. STALL(S) ADJACENT TO THE FIVE (5) FOOT STRIPED AISLES ARE TO RECEIVE A "VAN ACCESSIBLE" SIGN IN ADDITION TO THE ABOVE. STRIPING TO BE BLUE.
- L. STOP SIGNS SHALL MEET THE CRITERIA OF THE FLORIDA DEPARTMENT OF TRANSPORTATION AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- M. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL BUILDING PLANS AND SPECIFICATIONS.
- N. THE GENERAL CONTRACTOR IS TO COORDINATE WITH THE APPROPRIATE UTILITY COMPANIES PRIOR TO CONSTRUCTION, ADJUSTMENT, OR RELOCATION OF EXISTING UTILITIES AS DESIGNATED ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING DAMAGE TO ANY EXISTING ITEM DURING CONSTRUCTION SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS. THE CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND NOTIFY CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION START.

PROJECT DATA

TOTAL PROJECT ACREAGE: +/- 58.84 ACRES/DEVELOPABLE AREA NO WETLAND ON SITE
 PHASE 1 PROJECT ACREAGE: +/- 23.83 ACRES
 PHASE 1 BUILDING: ONE STORY RECREATIONAL FACILITY 8,960 SF FLOOR AREA ONE COVERED PATIO 13,250 SF
 EXISTING USE: VACANT LAND/NO EXISTING STRUCTURES
 EXISTING ZONING/FLU:
 * PARCEL ID: 05/25/21/0000/00900/0000
 ZONING: A-C
 FLU: AG/R
 ABUTTING:
 NORTH: SR 52 A-R-R-1 & C-2/RES-6
 EAST: C-2-A-R&R-1/RES-6
 WEST: R-2&A-R/RES-6
 SOUTH: A-C/AG/R

PROPOSED USE: PHASE 1:
 2 BASEBALL FIELDS AND 2 SOCCER FIELDS
 ONE 8,960 SF RECREATIONAL BUILDING CONTAINING 1 MENS AND 1 WOMENS REST ROOM. NO FOOD PREP OR COOKING.
 ONE 13,250 SF COVERED PATIO AREA
 BUILDING HEIGHT 24' MAX

MAX. ALLOWABLE F.A.R. = 25%
 PHASE 1 F.A.R. = 22.210 OR 0.50 AC 0.50/58.84 = 0.0086

PHASE 1 VEHICULAR USE AREA: 65,366 SF

SETBACKS REQUIRED:
 F - 50'
 S - 25'
 S - 25'
 R - 50'

ROW DEDICATION OF 33 FT. ALONG SR. 52

MINIMUM LANDSCAPED OPEN SPACE - 20%

BUFFERS:
 FRONT (NORTH ROAD SR 52) - 15' TYPE D PLANTED BUFFER SIDE (EAST SMITH RD.) - 15' TYPE A PLANTED BUFFER SIDE - (WEST) - 10' TYPE A PLANTED BUFFER REAR - (SOUTH) 10' TYPE A PLANTED BUFFER

UTILITY EASEMENTS:
 AS REQUIRED FOR POWER
 NO OTHER EASEMENTS REQD.

PARKING REQUIREMENTS FOR PROPOSED USE:
 REQUIRED: LDC 907.1-15
 OTHER OUTDOOR ENTERTAINMENT, SPORT, AND RECREATION
 1 SPACE PER 3 PERSONS PLUS 1 SPACE PER EMPLOYEE

PROVIDED:
 19 SPACE PER BASEBALL FIELD
 20 SPACES PER SOCCER FIELD
 TOTAL PROVIDED 78 PARKING SPACES (INCLUDING 4 HANDICAP SPACES)

SHOULD ANY NOTICEABLE SOIL SLUMPING OR SINKHOLE FORMATION BECOME EVIDENT, THE APPLICANT/DEVELOPER SHALL IMMEDIATELY NOTIFY THE COUNTY, TAMPA BAY WATER (TBW), AND SWFWMD, AND ADOPT ONE OR MORE OF THE FOLLOWING PROCEDURES AS DETERMINED TO BE APPROPRIATE BY THE COUNTY AND SWFWMD:

- IF THE SLUMPING OR SINKHOLE FORMATION BECOMES EVIDENT BEFORE OR DURING CONSTRUCTION ACTIVITIES, STOP ALL WORK (EXCEPT FOR MITIGATION ACTIVITIES) IN THE AFFECTED AREA AND REMAIN STOPPED UNTIL THE COUNTY AND SWFWMD APPROVE RESUMING CONSTRUCTION ACTIVITIES.
- TAKE IMMEDIATE MEASURES TO ENSURE NO SURFACE WATER DRAINS INTO THE AFFECTED AREAS.
- VISUALLY INSPECT THE AFFECTED AREA.
- EXCAVATE AND BACKFILL OR GROUT AS REQUIRED TO FILL THE AFFECTED AREA AND PREVENT FURTHER SUBSIDENCE.
- USE SOIL REINFORCEMENT MATERIALS IN THE BACKFILLING OPERATION, WHEN APPROPRIATE.
- IF THE AFFECTED AREA IS IN THE VICINITY OF A WATER-RETENTION AREA, MAINTAIN A MINIMUM DISTANCE OF TWO FEET FROM THE BOTTOM OF THE RETENTION POND TO THE SURFACE OF THE LIME-ROCK OR KARST CONNECTION.
- IF THE AFFECTED AREA IS IN THE VICINITY OF A WATER-RETENTION AREA AND THE ABOVE METHODS DO NOT STABILIZE THE COLLAPSE, RELOCATE THE RETENTION AREA.
- DISCHARGE OF STORM-WATER INTO DEPRESSIONS WITH DIRECT OR DEMONSTRATED HYDROLOGIC CONNECTION TO THE FLORIDIAN AQUIFER SHALL BE PROHIBITED.

THE SITE SHALL BE GRADED TO WITHIN 12 INCHES OF THE FINAL GRADE. WHERE FILL IS PROPOSED IT SHALL BE PLACED IN COMPLIANCE WITH THE GEOTECHNICAL/GEOLOGICAL ENGINEERING REPORT RECOMMENDATIONS (INCLUDING ANY LIFT DEPTHS RECOMMENDED) AND COMPACTED TO A MINIMUM DENSITY OF 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. DENSITY TESTS TO CONFIRM COMPACTION SHALL BE REQUIRED WITHIN THE BUILDING PAD AREA, BEFORE THE NEXT LIFT IS PLACED.

UPON COMPLETION OF THE LAND DEVELOPMENT CONSTRUCTION, A PROFESSIONAL ENGINEER SHALL PROVIDE A CERTIFICATION TO PASCO COUNTY THAT THE PROJECT, INCLUDING EACH PAD AREA, COMPLIES WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL/GEOLOGICAL ENGINEERING REPORT.

SECTION 5, TOWNSHIP 25 SOUTH, RANGE 21

SEASONAL HIGH-WATER TABLE:
 BASED ON THE GEOTECHNICAL EXPLORATION REPORT BY UNIVERSAL ENGINEERING SCIENCES, DATED SEPTEMBER 15, 2014 THE ESTIMATED SHWT IS ±8' BELOW EXISTING GRADE.

BUILDING INFORMATION:
 a. BUILDING HEIGHT: 14'-0" TO ROOF, 16'-0" TO TOP OF RIDGE
 b. ONE STORY RECREATIONAL FACILITY
 c. FIN. FLOOR ELEV. = 143.0 NGVD

NOTE: GENERAL CONTRACTOR TO COORDINATE LOCATION OF MONUMENT SIGN WITH FIRST BAPTIST CHURCH OF DADE CITY CONSTRUCTION SUPERVISOR.

NOTE: CONTRACTOR SHALL OBTAIN COPY OF EASEMENT DOCUMENTS AND DRIVEWAY ENCROACHMENT PERMITS PRIOR TO BEGINNING ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY OR ON ADJACENT PROPERTY.

NOTE: ALL PROPOSED SIDEWALK MUST MEET PASCO COUNTY AND ADA STANDARDS.

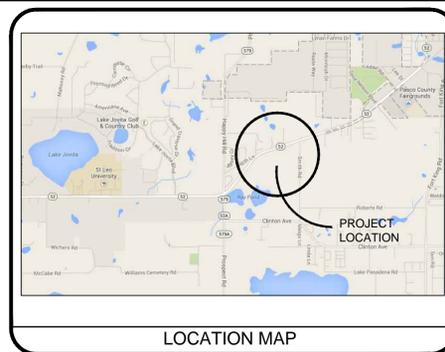
BUILDING SET BACK NOTE
 THE PROPOSED PHASE 1 BUILDING AS LOCATED IN THE SITE PLAN COMPLY WITH THE BUILDING SETBACK AS REQUIRED IN THE PASCO COUNTY LAND DEVELOPMENT CODE

PHASE 1 ESTIMATED CUT/FILL CALCULATION
 CUT OVER SITE=112,000 YD
 FILL OVER SITE=100,000 YD

PASCO COUNTY WETLAND CLASS TABLE

CATEGORY	SITE ACRES
I	0.0
II	0.0
III	0.0

NOTE: NO WETLANDS ON SITE



REVISIONS

ISSUED	COMMENT

SCOTT K. STANNARD, P.E.
 FL PE NO. 50565

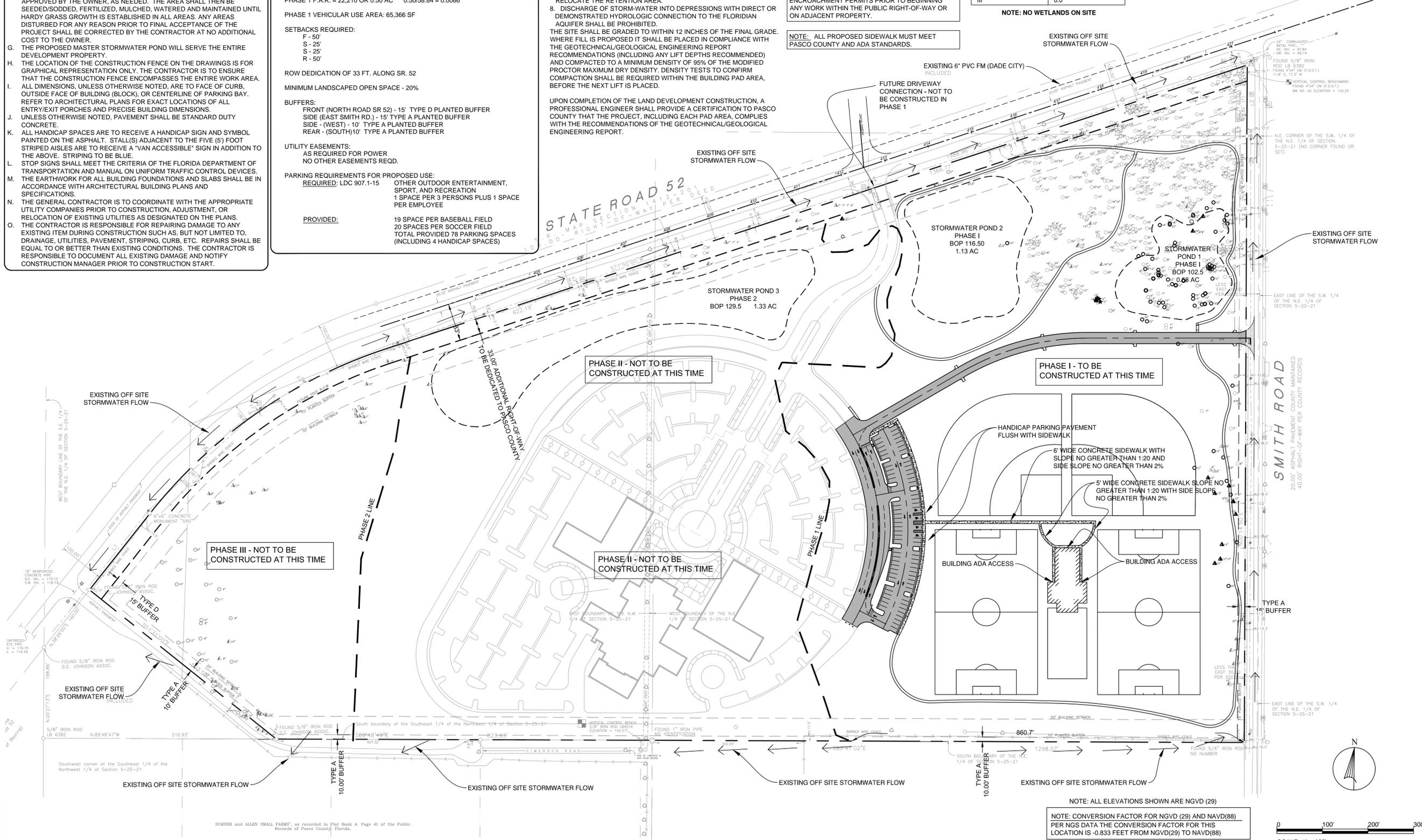
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PREPARED FOR:
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OVERALL SITE PLAN
FIRST BAPTIST CHURCH OF DADE CITY
 37511 Church Avenue
 Dade City, FL 33525
 (852) 567-3265

Date: 11-24-14
 Drawn: LAB
 Checked: SKS

C-4



NOTE: ALL ELEVATIONS SHOWN ARE NGVD (29)
 NOTE: CONVERSION FACTOR FOR NGVD (29) AND NAVD(88) PER NGS DATA THE CONVERSION FACTOR FOR THIS LOCATION IS -0.833 FEET FROM NGVD(29) TO NAVD(88)



SECTION 5, TOWNSHIP 25 SOUTH, RANGE 21

- NOTES:
 1. REFER TO OVERALL SITE PLAN FOR SITE NOTES.
 2. DRIVEWAY CONNECTION TO S.R.52 IS SHOWN FOR REFERENCE ONLY. GEOMETRIC DESIGN AND CONNECTION ARE APPROXIMATE. THIS DRIVEWAY IS NOT A PART OF PHASE I DEVELOPMENT.
 3. PHASE II DEVELOPMENT HAS NO TIMETABLE.

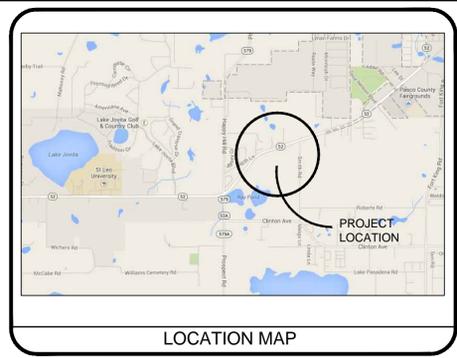
NOTE: ALL PARKING SPACES ARE TO BE 20.0' DEEP AND A MIN. OF 9.0' WIDE WITH EXCEPTION OF ADA SPACES

PHASE 2 - PARKING SHOWN FOR REFERENCE ONLY. NO SCHEDULE SET FOR PHASE II DEVELOPMENT

PHASE II STORMWATER POND - NOT TO BE CONSTRUCTED AT THIS TIME

PHASE I - LIFT STATION (SEE UTILITY PLAN SHEET C-12)

FUTURE DRIVEWAY CONNECTION - PHASE II NOT TO BE CONSTRUCTED IN PHASE I



CURVE CHART					
CURVE NO.	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	ANGLE
NO. 1	550	287.97	284.70	S75°0'00"W	30°0'0"
NO. 2	398.38	32.14	32.13	S33°19'50.97"E	4°37'24"
NO. 3	398.38	142.10	141.34	S20°48'2.83"E	20°26'12"
NO. 4	398.38	258.86	254.33	S8°15'7.45"W	37°13'48"
NO. 5	398.38	34.21	34.20	S29°6'28.49"W	4°55'14"

LINE CHART		
LINE NO.	LENGTH	BEARING
NO. 1	347.94'	WEST
NO. 2	275.56'	32.14
NO. 3	398.38'	142.10
NO. 4	398.38'	258.86

NOTE: ALL ELEVATIONS SHOWN ARE NGVD (29)
 NOTE: CONVERSION FACTOR FOR NGVD (29) AND NAVD(88) PER NGS DATA THE CONVERSION FACTOR FOR THIS LOCATION IS -0.833 FEET FROM NGVD(29) TO NAVD(88)

ISSUED	REVISIONS	COMMENT

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 FL PE NO. 50565

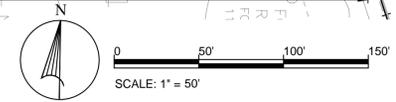
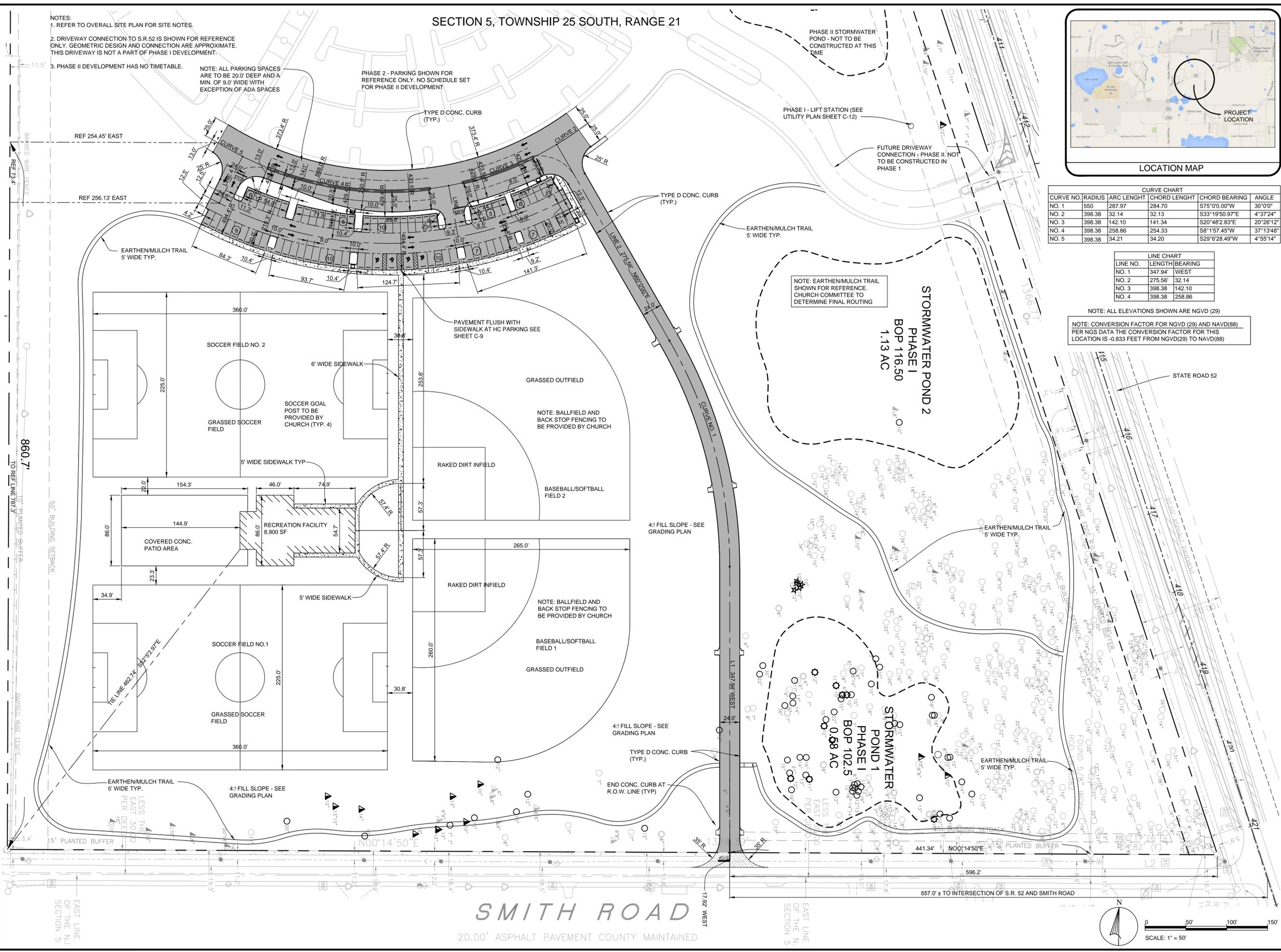
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PHASE I SITE & STAKEOUT PLAN
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 DADE CITY, FL 33525
 (852) 567-3265

Date: 11-24-14
 Drawn: LAB
 Checked: SKS

C-4A



PAVEMENT ARROW AND MESSAGE DETAILS

NOTE: When arrow and pavement message are used together, the arrow shall be located down stream of the pavement message and shall be separated from the pavement message by a distance of 2' (base of the arrow to the base of the message). Stop message shall be placed 2' from back of stop line.

TYPES OF PAVEMENT MARKING LINES

Solid Yellow Edge Line
2'-4" Guide Line
Two-Lane Passing Prohibited (Yellow)
Double Solid Yellow (Or White)
10'-30' Skip White or Yellow Center Line

Solid White Edge Line or Lane Line
6'-10' Dotted Extension Line
Solid White Channeling Line
3'-9' Skip White Interchange Line
3'-9' Skip Lane Drop Line

CONTRAST MARKINGS

10' White Skip With Black Contrast, With 30 Gaps
10' White Skip With 10' Black Contrast and 20 Gaps
10' Black Contrast

YIELD MARKINGS

Yield Lines 5'-18" X 27"
White Triangles facing traffic equally spaced within travel lane with 1 additional triangle using same spacing when a bike lane is present.

LAST REVISION	DESCRIPTION	2015 DESIGN STANDARDS	SPECIAL MARKING AREAS	INDEX NO.	SHEET NO.
07/01/14				17346	1 of 14

PAVEMENT MARKING FOR PUBLIC SIDEWALK CURB RAMPS IN REST AREAS

MINIMUM PARKING RESTRICTION FOR NONSIGNALIZED INTERSECTIONS

MINIMUM PARKING RESTRICTION FOR SIGNALIZED INTERSECTION

UNIVERSAL SYMBOL OF ACCESSIBILITY

GENERAL NOTES (Signalized & Nonsignalized)

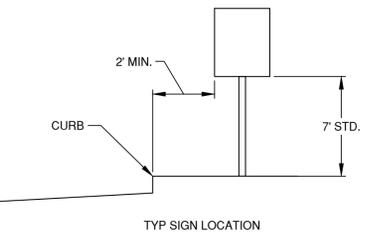
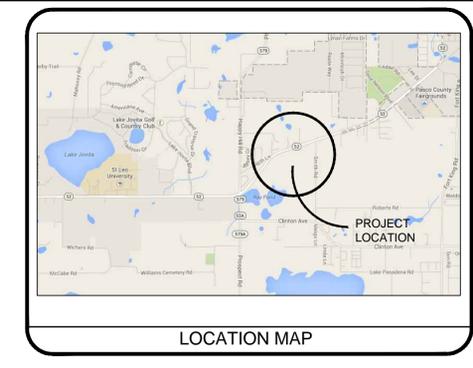
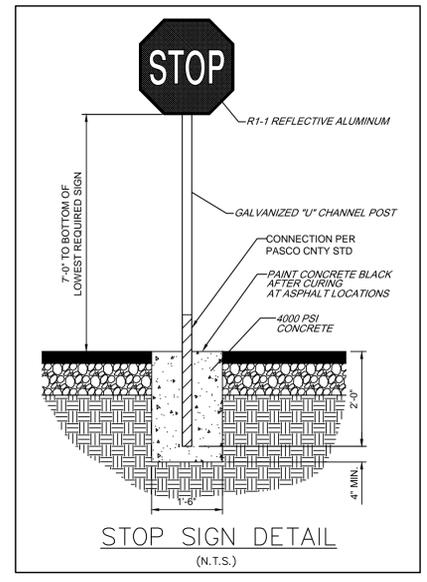
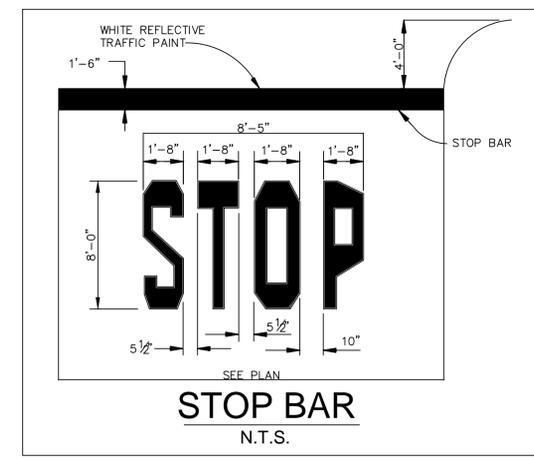
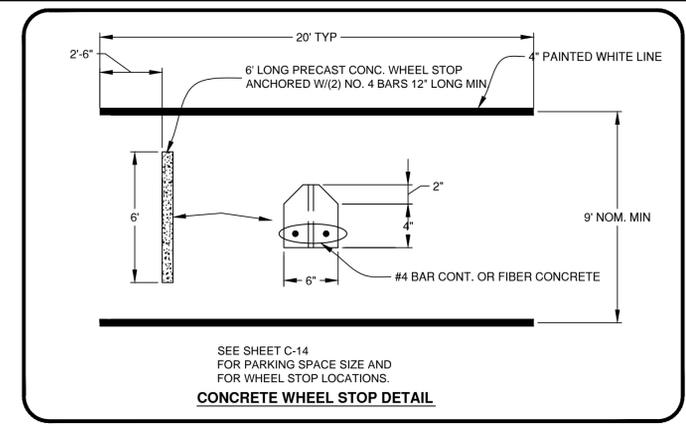
1. For entrances to a one-way street, the downstream restriction may be reduced to 20'.
2. Parking shall not be allowed within 20' of a crosswalk.
3. All parking lane markings shall be 6" white.
4. Parking lane lines shall be broken at driveways.
5. Refer to Chapter 316, Fla. Statutes, for laws governing parking spaces.
6. Where curb and gutter is used, the gutter pan width may be included as part of the minimum width of parking lane, but desirably the lane width should be in addition to that of the gutter pan.

SPEED MPH	UP STREAM (A)	DOWN STREAM (B)
0-30	85'	60'
35	100'	70'

ANGLE	"A"	"B"	"C"	"D"	"E"
45°	19'-1"	12'-9"	7'-0"	27'-0"	17'-0"
60°	20'-1"	10'-5"	5'-9"	23'-2"	13'-10"

SPEED LIMIT MPH	SIGNALIZED INTERSECTIONS	DISTANCE FROM CURB RADIUS (Y)
0-30	30'	
35	50'	

DATE	11-24-14
DRAWN	LAB
CHECKED	SKS



PASCO COUNTY STANDARD TRAFFIC CONTROL DEVICE NOTES:

A) ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.

B) ANY TRAFFIC CONTROL DEVICE FOR A PRIVATE ROADWAY PLACES IN A COUNTY OR STATE RIGHT-OF-WAY SHALL BE INSTALLED ON THE APPROPRIATE BREAKAWAY POST ASSEMBLY.

GENERAL NOTES:

- The typical sections shown hereon serve as a guide for locating the traffic signs required under various roadside conditions. For size and details of sign construction and footing, refer to the appropriate standard index drawing for roadside sign.
- It shall be the CONTRACTORS responsibility to verify the length of sign supports in the field prior to fabrication.
- Roadside signs shall be installed at an angle of 1 to 4 degrees away from the traffic flow (see illustration). Shoulder mounted signs shall be rotated counterclockwise and median mounted signs rotated clockwise. Signs on curves shall be mounted as noted above from the perpendicular to the motorist line of sight.
- The setback for stop and yield signs may be reduced to 3' minimum from the driving lane if required for visibility in business or residential sections with no curb and speeds of 30 MPH or less.
- The mounting heights are measured from the bottom of the sign panel to a horizontal line extended from the edge of the driving lane. If the standard heights cannot be met, the minimum heights are as follows:
Expressway & Freeway Systems 7'
Other Roadway Systems
Rural 5'
Urban (including residential with Parking and/or pedestrian activity) 7'

If a secondary sign is mounted below the major sign, the major sign shall be at least 8' and the secondary sign at least 5' for expressway & freeway systems and for other systems the height to the secondary sign shall be at least 5' for rural and 7' for urban sections.

- Sign supports should never be placed in the bottom of ditches where erosion might affect the proper operation of the breakaway feature.
- Sign supports shall not reduce the accessible route/continuous passage to less than 4' min. clear width as required by the Americans with Disabilities Act (ADA) Accessibility Guidelines.
- All intersections are to have street signs per MUTCO and Pasco county standards white background with green lettering.

ISSUED	REVISIONS	COMMENT

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SITE DETAILS
FIRST BAPTIST CHURCH OF DADE CITY
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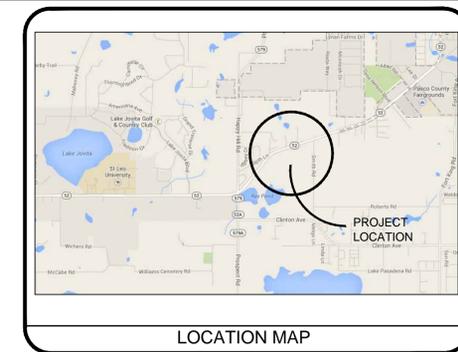
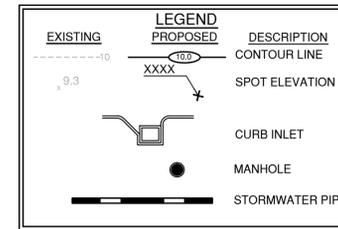
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C-6

SITE GRADING NOTES

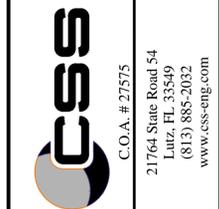
- CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF ANY EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES THAT NEED TO BE RELOCATED OR REMOVED TO ALLOW FOR CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- ALL CUT OR FILL SLOPES SHALL BE 4:1 OR FLATTER UNLESS OTHERWISE NOTED.
- PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
- STORM PIPE SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED: TYPE 1: RCP, CLASS III PER ASTM C-76, WITH FLEXIBLE PLASTIC BITUMEN GASKETS AT JOINTS, UNLESS OTHERWISE NOTED.
- EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
- EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
- PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
- ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED 'STORM SEWER'.
- THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL ADJUST PROPOSED PAVEMENT ELEVATIONS AS NECESSARY TO ASSURE A SMOOTH TIE IN WITH EXISTING ROAD.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY BY DC JOHNSON SURVEYING. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
- ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STAKED SOD TO ALL SLOPES 3:1V OR STEEPER. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH STATE SPECIFICATIONS UNTIL A HEALTHY STAND OF GRASS IS OBTAINED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED.
- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT.
- CATCH BASINS, MANHOLES, FRAMES, GRATES, SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD DETAILS FOR CONSTRUCTION AND THE CHARLOTTE COUNTY REQUIREMENTS.
- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT NUMBER, SIZE AND LOCATION OF ANY ROOF DRAINS AND/OR DOWNSPOUTS.
- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD LOCATIONS WHEN POSSIBLE, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES BY DIGGING TEST PITS BY HAND AT ALL CROSSINGS WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SPECIFIED ON THE PLAN OR TWELVE INCHES (12"), WHICHEVER IS LESS, CONTACT THE DESIGN ENGINEER AND THE OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SHEETING, SHORING, BRACING, AND SPECIAL EXCAVATION MEASURES REQUIRED TO MEET OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF ALL WORK INDICATED ON THESE DRAWINGS. THE OWNER AND THE DESIGN ENGINEER ACCEPT NO RESPONSIBILITY FOR THE DESIGNS TO INSTALL SAID ITEMS.
- PRECAST DRAINAGE STRUCTURES HAVE BEEN SPECIFIED ON THE PLANS. THE OWNER AND THE ENGINEER, HOWEVER, ASSUME NO RESPONSIBILITY FOR THESE STRUCTURES, AS FIELD CONDITIONS OFTEN DICTATE MINOR ELEVATION ADJUSTMENTS. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY AND EXPENSE FOR MODIFYING THE PRECAST STRUCTURES TO ACCOMMODATE FIELD REVISIONS.
- IF THE OWNER DESIGNATES, ALL GRADING OPERATIONS, EXCAVATIONS, FILL, COMPACTION TESTING AND BACKFILL SHALL BE OBSERVED AND TESTED BY A QUALIFIED GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL BE DESIGNATED BY AND PAID FOR BY THE OWNER.
- PLACEMENT OF FILL AND COMPACTION SHALL BE DONE IN ACCORDANCE WITH THE ON-SITE GEOTECHNICAL ENGINEERS RECOMMENDATIONS AS PROVIDED BY UNIVERSAL ENGINEERING.
- COMPACTION TESTS SHALL BE DONE FOR EACH TWO FEET OF FILL, BUT NOT LESS THAN ONE TEST FOR EVERY 500 CUBIC YARDS, OR AS SPECIFIED BY THE GEOTECHNICAL ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL COSTS INCURRED FOR INSPECTION AND TESTING OF SOILS DUE TO FAILURE TO COMPLY WITH THE MINIMUM REQUIREMENTS OF THE SOILS REPORT.
- ALL GRADING OPERATIONS SHALL BE STAKED BY A REGISTERED LAND SURVEYOR APPROVED BY THE OWNER.
- UPON COMPLETION OF THE GRADING, THE SOILS ENGINEER SHALL PROVIDE OWNER WITH A LETTER INDICATING THAT THE SITE AND BUILDING PAD WERE PREPARED IN DIRECT CONFORMANCE WITH THE RECOMMENDATIONS AND CONCLUSIONS IN THE SOILS REPORT.
- CROSS-SLOPES THROUGH STRIPED AREA LEADING TO PUBLIC SIDEWALK SHALL NOT EXCEED 2.

SECTION 5, TOWNSHIP 25 SOUTH, RANGE 21



ISSUED	REVISIONS	COMMENT

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FL PE NO. 50565

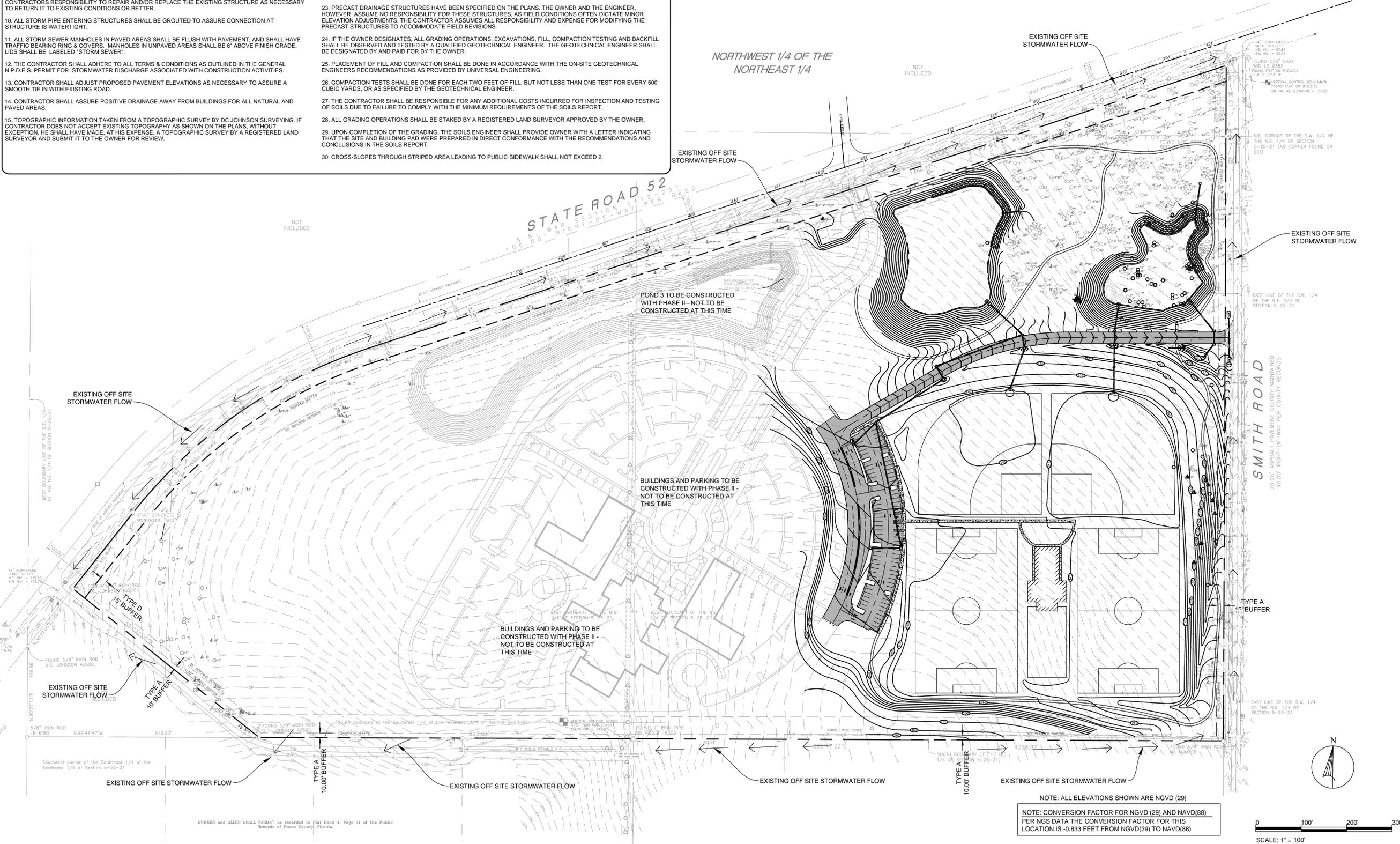


PREPARED FOR:
FIRST BAPTIST CHURCH OF DADE CITY
337511 CHURCH AVENUE
DADE CITY, FL 33525
PH: (352) 567-3265

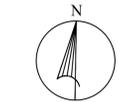
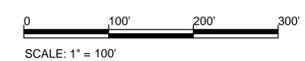
OVERALL GRADING PLAN
FIRST BAPTIST CHURCH OF DADE CITY
37511 CHURCH AVENUE
DADE CITY, FL 33525
(352) 567-3265

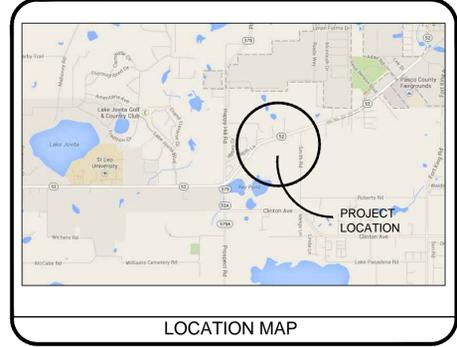
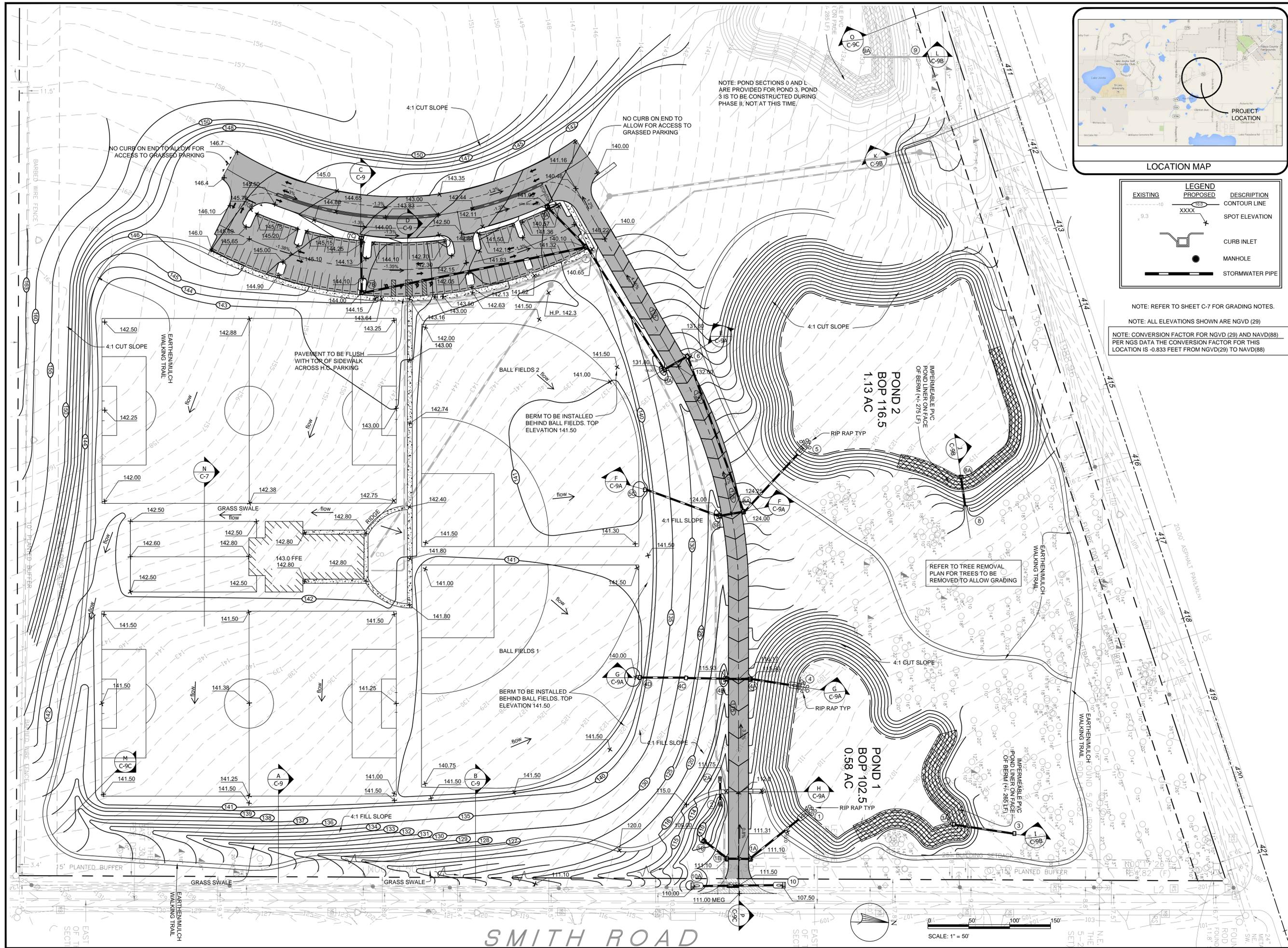
Date: 11-24-14
Drawn: LAB
Checked: SKS

C-7



NOTE: ALL ELEVATIONS SHOWN ARE NGVD (29)
NOTE: CONVERSION FACTOR FOR NGVD (29) AND NAVD(88) PER NGS DATA THE CONVERSION FACTOR FOR THIS LOCATION IS -0.833 FEET FROM NGVD(29) TO NAVD(88)





EXISTING	LEGEND PROPOSED	DESCRIPTION
9.3	XXXX	CONTOUR LINE
	XXXX	SPOT ELEVATION
		CURB INLET
		MANHOLE
		STORMWATER PIPE

NOTE: REFER TO SHEET C-7 FOR GRADING NOTES.

NOTE: ALL ELEVATIONS SHOWN ARE NGVD (29)

NOTE: CONVERSION FACTOR FOR NGVD (29) AND NAVD(88) PER NGS DATA THE CONVERSION FACTOR FOR THIS LOCATION IS -0.833 FEET FROM NGVD(29) TO NAVD(88)

ISSUED	REVISIONS	COMMENT

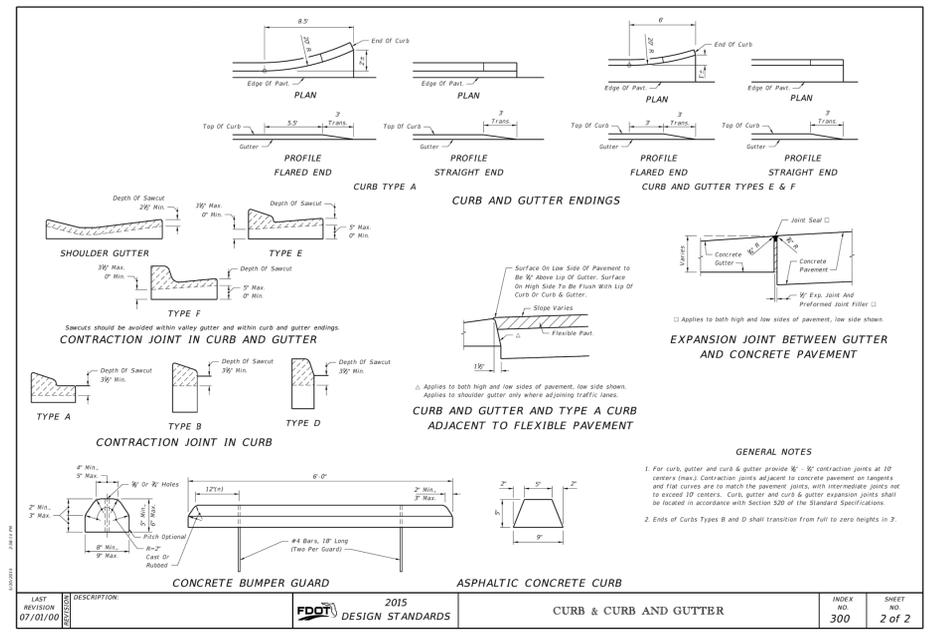
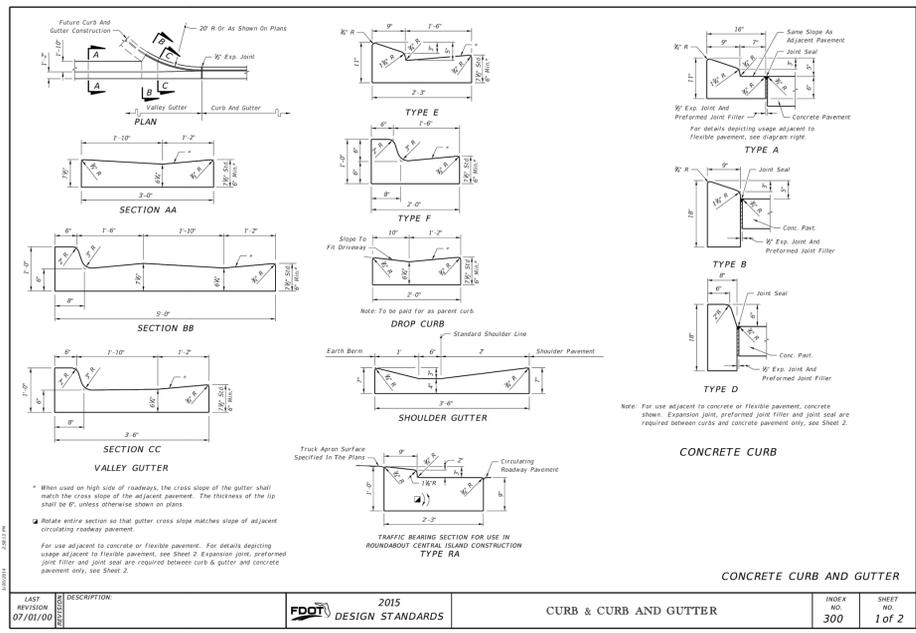
SCOTT K. STANNARD, P.E.
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PREPARED FOR:
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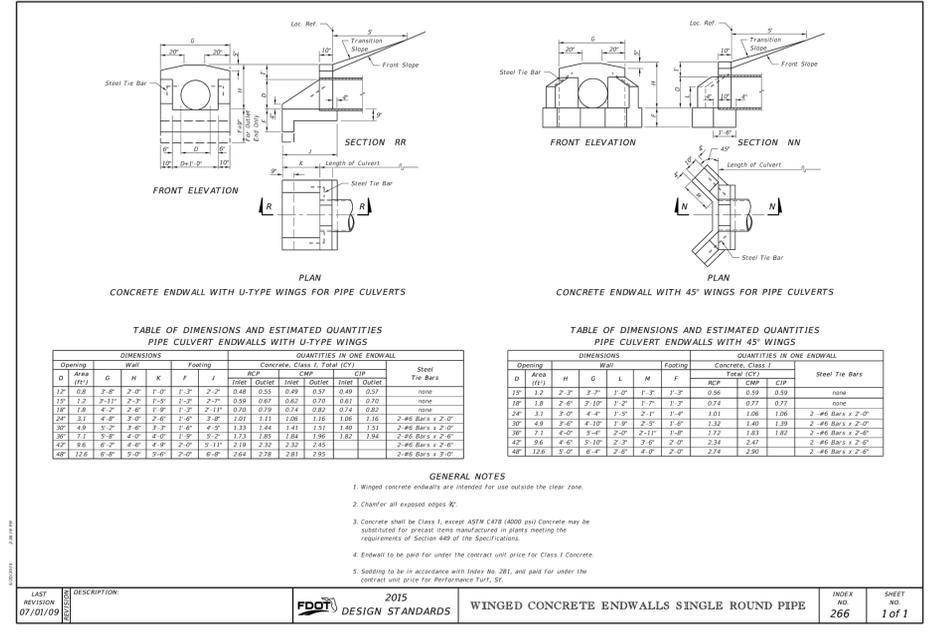
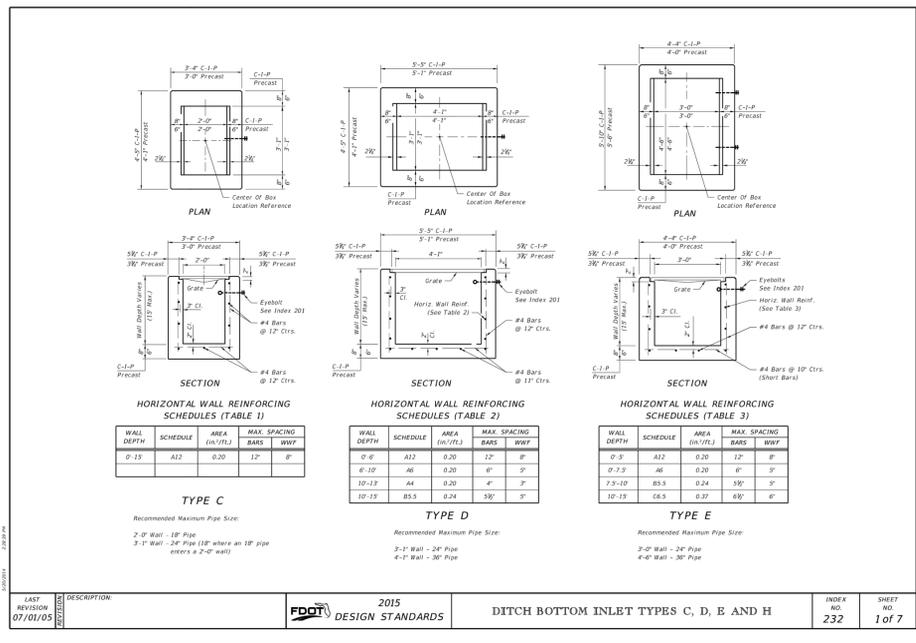
**PHASE I
GRADING PLAN**
**FIRST BAPTIST CHURCH
OF DADE CITY**
37511 CHURCH AVENUE
DADE CITY, FL 33525
(352) 567-3265

Date: 11-24-14
Drawn: LAB
Checked: SKS
C-7A



2015 DESIGN STANDARDS
CROSS DRAIN MITERED END SECTION
 INDEX NO. 272 SHEET NO. 1 of 6

DIMENSIONS AND QUANTITIES													
D	X	A	B	C	E	F	G	SINGLE ROUND PIPE			SODDING (S)		
								Single	Double	Triple	Single	Double	Triple
12	2-1/2"	1-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	1.00	2.00	3.00	1.00	2.00	3.00
15	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	1.50	3.00	4.50	1.50	3.00	4.50
18	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2.00	4.00	6.00	2.00	4.00	6.00
24	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3.00	6.00	9.00	3.00	6.00	9.00
30	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	4.00	8.00	12.00	4.00	8.00	12.00
36	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	5.00	10.00	15.00	5.00	10.00	15.00
42	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	6.00	12.00	18.00	6.00	12.00	18.00
48	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	7.00	14.00	21.00	7.00	14.00	21.00
54	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	8.00	16.00	24.00	8.00	16.00	24.00
60	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	9.00	18.00	27.00	9.00	18.00	27.00
66	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	10.00	20.00	30.00	10.00	20.00	30.00
72	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	11.00	22.00	33.00	11.00	22.00	33.00



REVISIONS

ISSUED	COMMENT

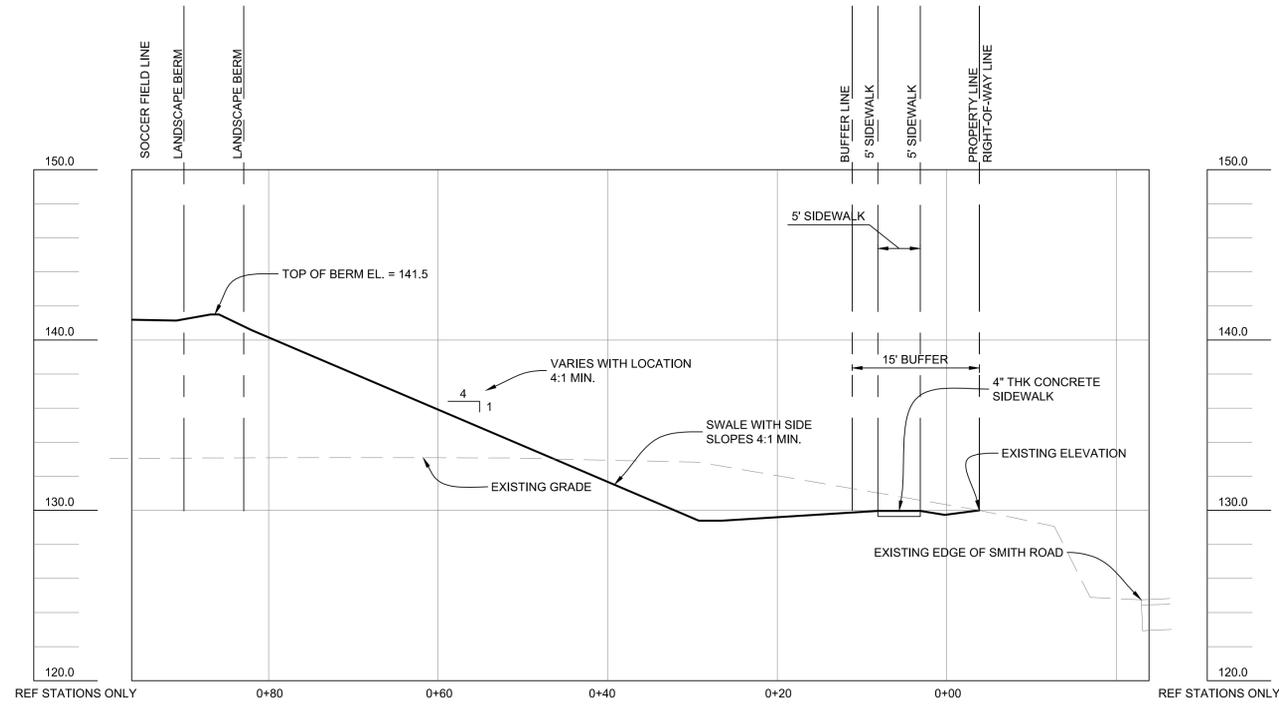
SCOTT K. STANNARD, P.E.
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PREPARED FOR:
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 537511 CHURCH AVENUE
 DADE CITY, FL 33525
 PH: (352) 567-3265

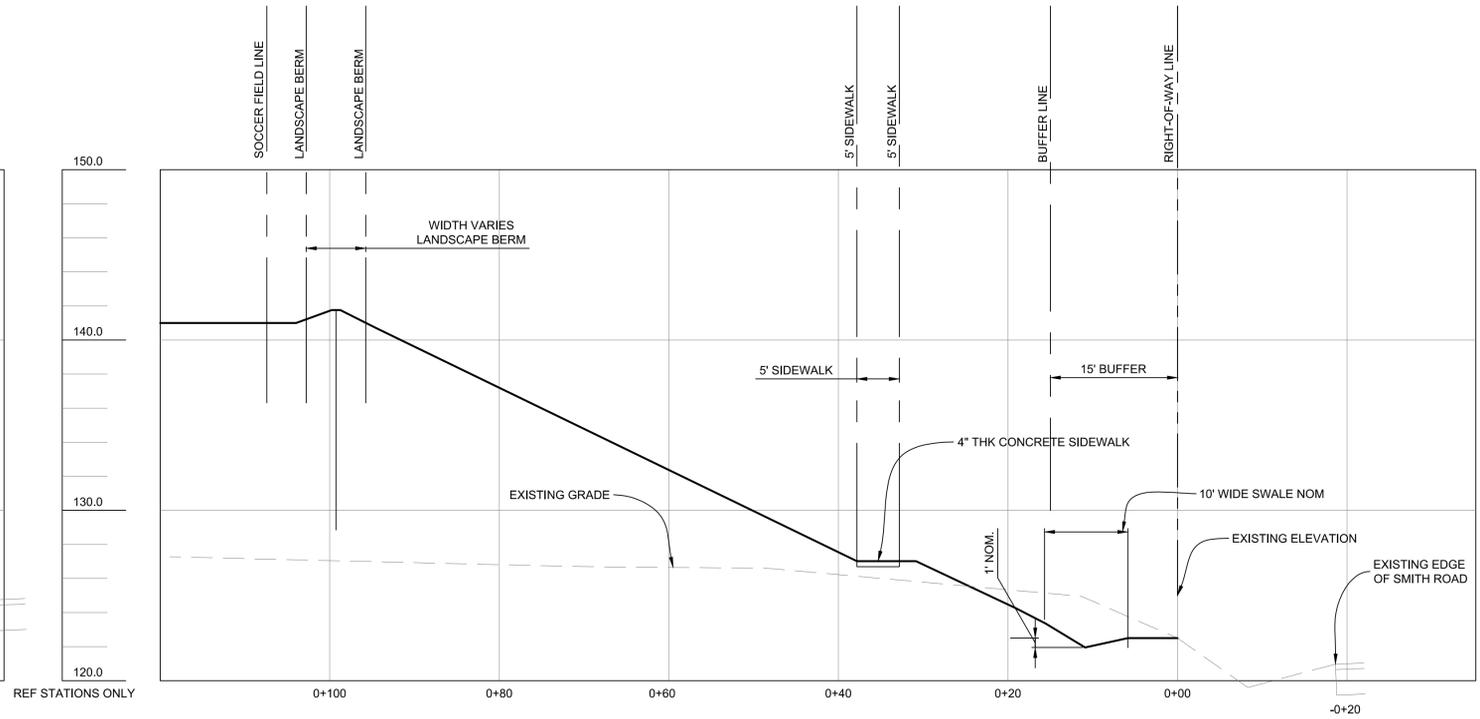
GRADING PLAN DETAILS PHASE 1
FIRST BAPTIST CHURCH OF DADE CITY
 37511 CHURCH AVENUE
 DADE CITY, FL 33525
 (352) 567-3265

Date: 11-24-14
 Drawn: LAB
 Checked: SKS
C-8B



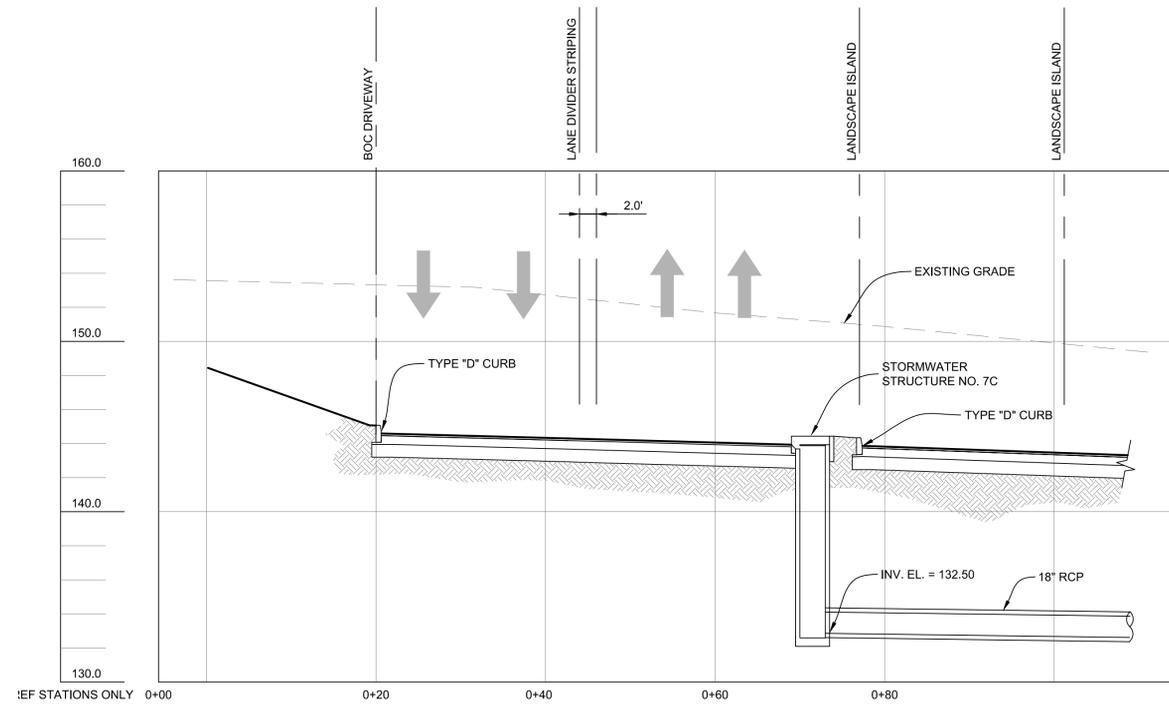
SECTION A/9 (FROM C-7A)

SCALE: 1" = 10' HORIZ.
1" = 5' VERT.



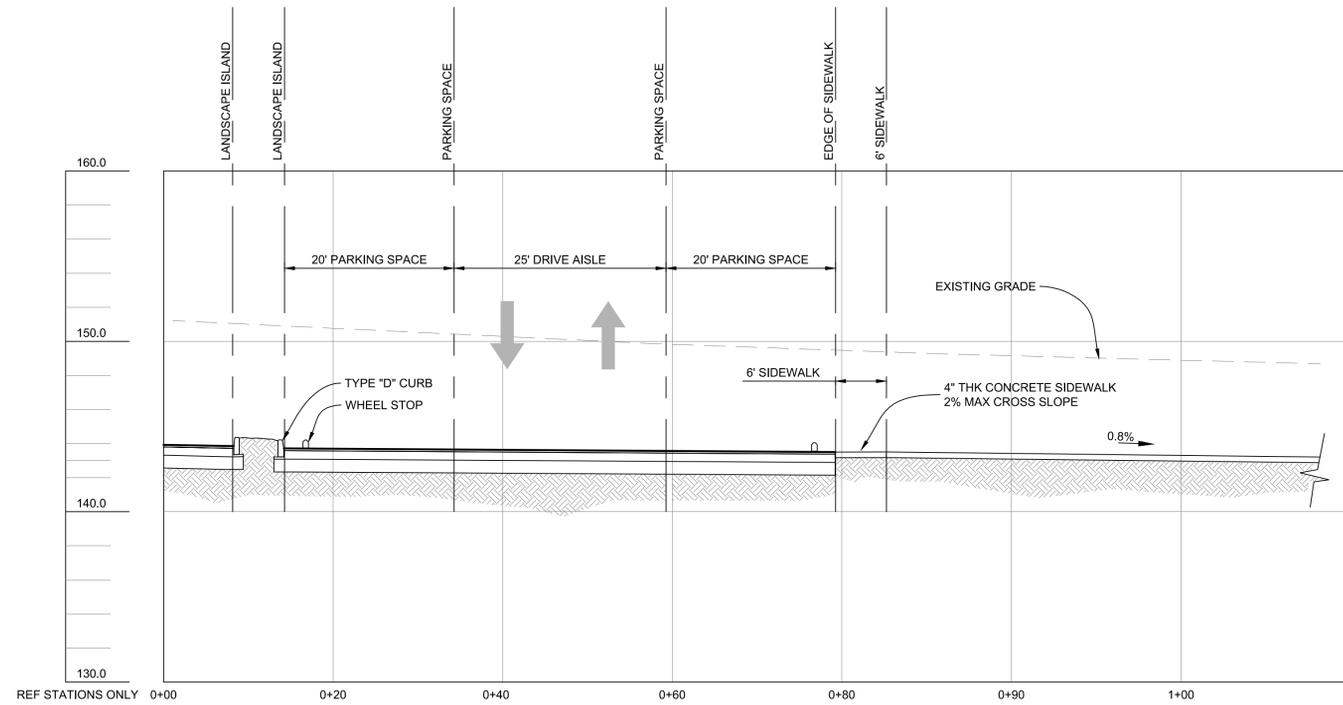
SECTION B/9 (FROM C-7A)

SCALE: 1" = 10' HORIZ.
1" = 5' VERT.



SECTION C/9 (FROM C-7A)

SCALE: 1" = 10' HORIZ.
1" = 5' VERT.



SECTION D/9 (FROM C-7A)

SCALE: 1" = 10' HORIZ.
1" = 5' VERT.

NOTE: ALL ELEVATIONS SHOWN ARE NGVD (29)
NOTE: CONVERSION FACTOR FOR NGVD (29) AND NAVD(88)
PER NGS DATA THE CONVERSION FACTOR FOR THIS
LOCATION IS -0.833 FEET FROM NGVD(29) TO NAVD(88)

REVISIONS	
ISSUED	COMMENT

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FL PE NO. 50565



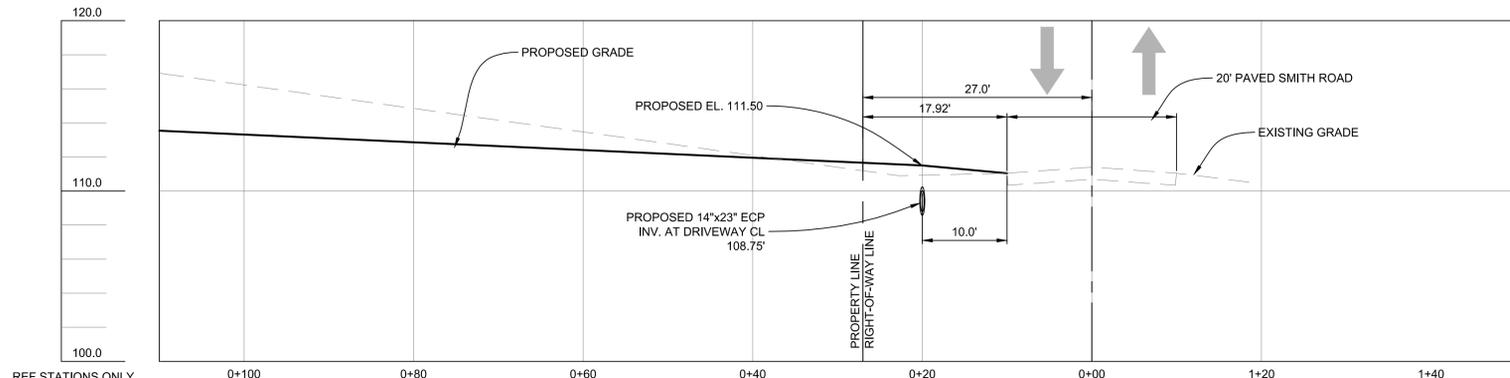
C.O.A. # 27575
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(813) 885-2032
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PREPARED FOR:
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GRADING PHASE 1
SECTIONS PHASE 1
**FIRST BAPTIST CHURCH
OF DADE CITY**
37511 CHURCH AVENUE
DADE CITY, FL 33525
(352) 567-3265

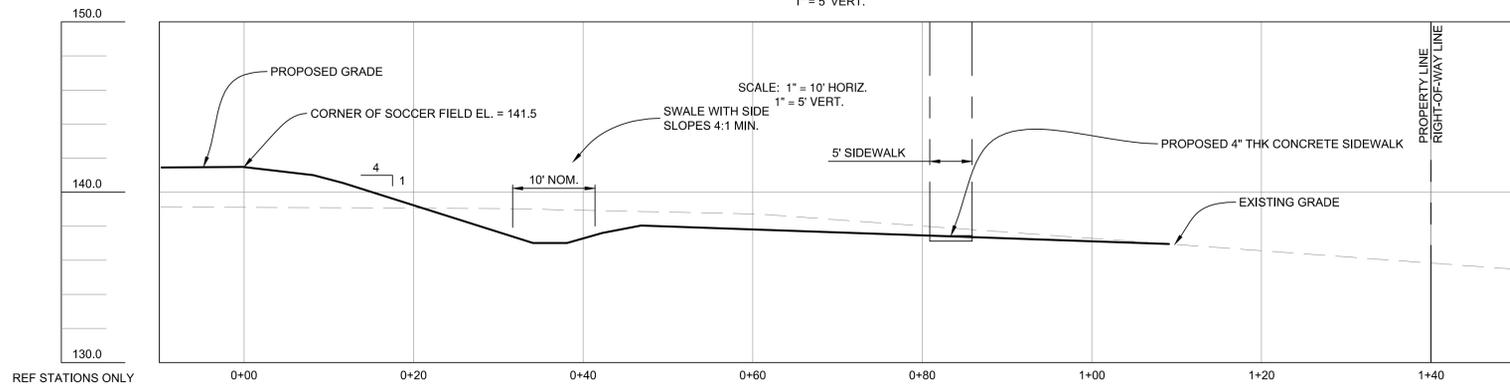
Date: 11-24-14
Drawn: LAB
Checked: SKS

C-9



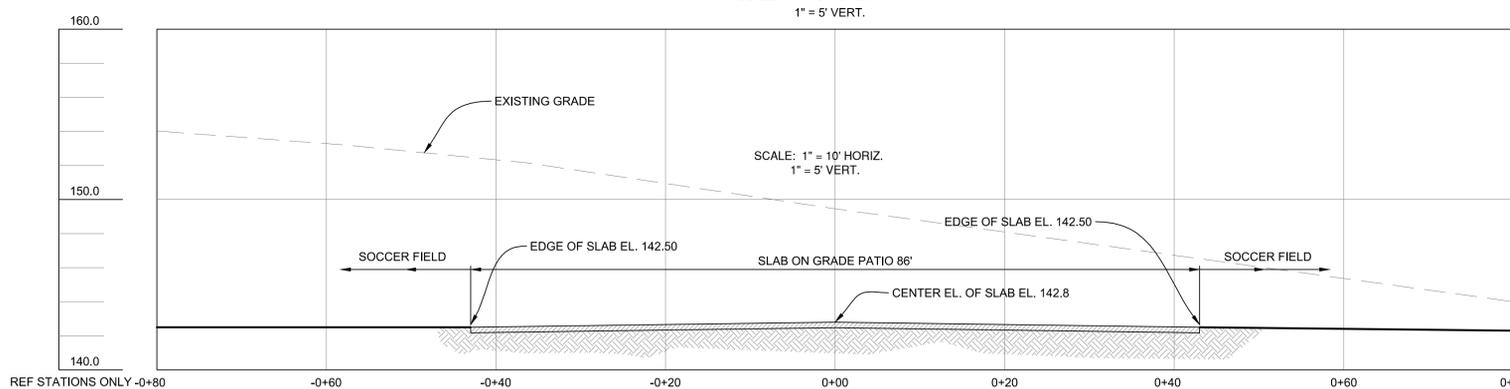
SECTION P/9C (FROM C-7A)

SCALE: 1" = 10' HORIZ.
1" = 5' VERT.



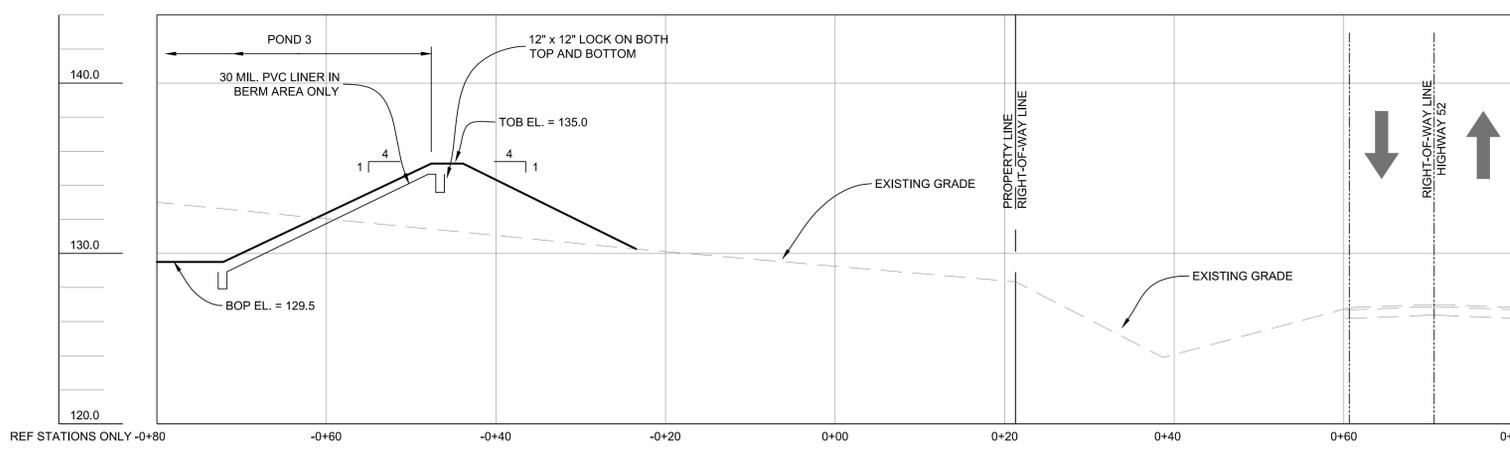
SECTION M/9C (FROM C-7A)

SCALE: 1" = 10' HORIZ.
1" = 5' VERT.



SECTION N/9C (FROM C-7A)

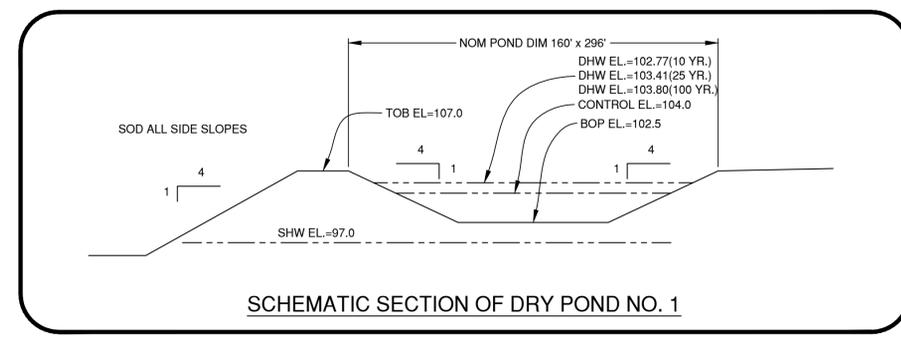
SCALE: 1" = 10' HORIZ.
1" = 5' VERT.



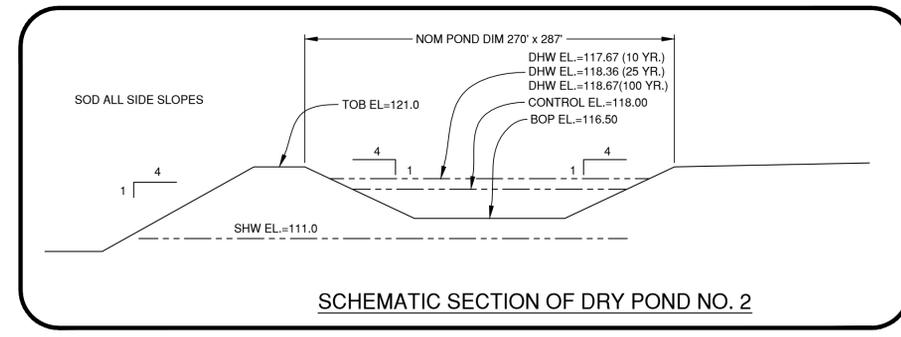
SECTION O/9C (FROM C-7A)

SCALE: 1" = 10' HORIZ.
1" = 5' VERT.

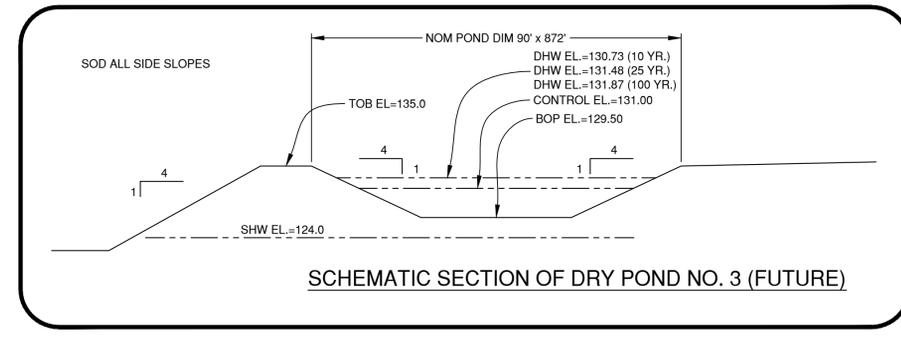
NOTE: ALL ELEVATIONS SHOWN ARE NGVD (29)
NOTE: CONVERSION FACTOR FOR NGVD (29) AND NAVD(88)
PER NGS DATA THE CONVERSION FACTOR FOR THIS
LOCATION IS -0.833 FEET FROM NGVD(29) TO NAVD(88)



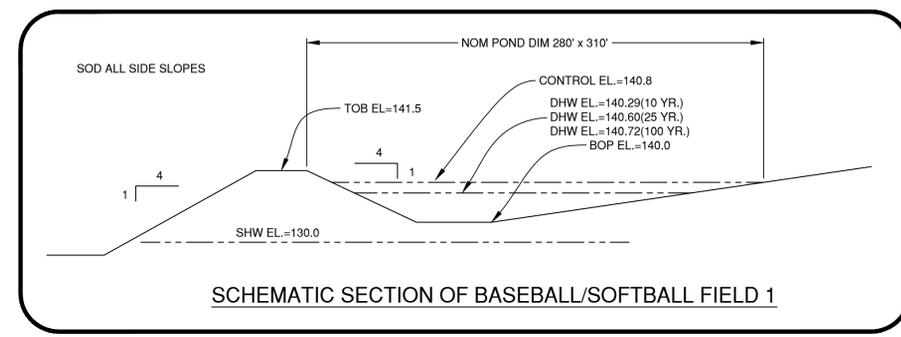
SCHEMATIC SECTION OF DRY POND NO. 1



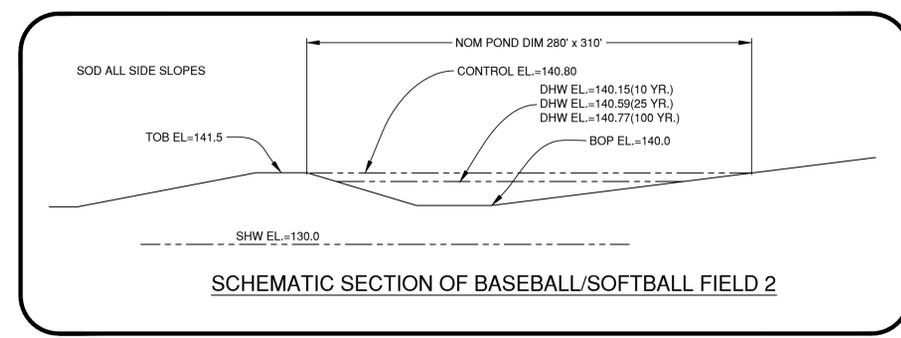
SCHEMATIC SECTION OF DRY POND NO. 2



SCHEMATIC SECTION OF DRY POND NO. 3 (FUTURE)



SCHEMATIC SECTION OF BASEBALL/SOFTBALL FIELD 1



SCHEMATIC SECTION OF BASEBALL/SOFTBALL FIELD 2

ISSUED	REVISIONS	COMMENT

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GRADING SECTIONS PHASE 1
FIRST BAPTIST CHURCH OF DADE CITY
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DADE CITY, FL 33525
(352) 567-3265

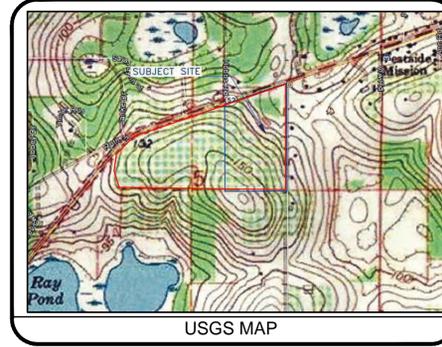
Date: 11-24-14
Drawn: LAB
Checked: SKS

C-9C

THE LOCATION OF THE SILT FENCE AND CONSTRUCTION/TREE PROTECTION FENCING ON THE DRAWINGS IS FOR GRAPHICAL PURPOSES ONLY. THE CONTRACTOR IS TO ENSURE THAT THE SILT FENCE AND CONSTRUCTION/TREE PROTECTION FENCING ENCOMPASSES THE ENTIRE WORK AREA.

TOTAL DISTURBED AREA DURING PHASE I CONSTRUCTION 23.6 ACRES

POND 3 SHOWN FOR REFERENCE ONLY. NOT TO BE CONSTRUCTED AT THIS TIME



USGS MAP

ACREAGE SUMMARY
in ACRES

TOTAL AREA OF PAVEMENT	1.23 AC±
TOTAL AREA ROOFED	0.43 AC±
TOTAL AREA SEEDED	21.9 AC±
TOTAL AREA SODDED	0.27 AC±
TOTAL DISTURBED AREA	23.83 AC±

REFER TO SHEET C-10B FOR EROSION CONTROL NOTES

REVISIONS

ISSUED	COMMENT

SCOTT K. STANNARD, P.E.
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DADE CITY, FL 33525
PH: (352) 567-3265

EROSION CONTROL - I
FIRST BAPTIST CHURCH OF DADE CITY
37511 CHURCH AVENUE
DADE CITY, FL 33525
(352) 567-3265

Date: 11-24-14
Drawn: LAB
Checked: SKS
C-10

LEGEND

EROSION NOTES

- PS PERMANENT SEEDING
- TS TEMPORARY SEEDING
- TPS TEMPORARY PARKING AND STORAGE
- PROVIDE BARRICADE AT ALL ENTRANCE LOCATIONS W/O TEMP STONE CONSTRUCTION EXIT

PROPOSED

- BOUNDARY LINE
- RIGHT OF WAY LINE
- LIMITS OF DISTURBANCE
- GRADE BREAK
- CONTOUR ELEVATIONS
- STORM DRAIN
- DIRECTION OF OVERLAND FLOW W/ GRADE
- LIMITS OF DRAINAGE SUB-BASIN

EROSION DETAILS

- TEMPORARY STONE CONSTRUCTION EXIT
- TEMPORARY SILT FENCE
- TEMPORARY SEDIMENT TRAP
- GRAVEL CURB INLET SEDIMENT FILTER
- GRAVEL CURB OPENING PROTECTION

THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH PASCO COUNTY, FDEP AND ALL OTHER AGENCIES OR MUNICIPALITIES WITH JURISDICTION INSPECTORS SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION. INSPECTION SCHEDULE MUST BE CARRIED OUT IN ACCORDANCE WITH JURISDICTIONAL REQUIREMENTS.

NOTE: DISPOSAL OF SEDIMENT. SEDIMENT REMOVED FROM SILT FENCE, INLET PROTECTION, SEDIMENT PONDS AND TRAPS, ETC. DURING THE COURSE OF CONSTRUCTION, SHALL BE PLACED ON THE TOPSOIL STOCKPILE AND RESPREAD AT THE END OF THE PROJECT. SEDIMENT REMOVED FROM THESE ITEMS AFTER THE SITE HAS BEEN SEEDED, SHALL BE HAULED OFF SITE AND DISPOSED OF AT AN APPROVED, LICENCED SPOIL AREA THAT IS IN FULL COMPLIANCE WITH THE NPDES REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY APPROVALS NECESSARY TO ALLOW FOR THE DISPOSAL OF THIS MATERIAL IF HAULED OFF-SITE.

NOTE: THE CONTRACTOR SHALL PROVIDE PASCO COUNTY AND THE CONSULTING ENGINEER WITH A MINIMUM OF 72 HOURS ADVANCE NOTICE TO THE START OF CONSTRUCTION ACTIVITY. ACTIVITY IS DEFINED, BUT NOT NECESSARILY LIMITED TO INSTALLATION OF STONE CONSTRUCTION DRIVE, SILT FENCE, CLEARING AND GRUBBING, STRIPPING TOPSOIL, GRADING, AND INSTALLATION OF ANY UTILITY OR ROAD WORK. SITE INSPECTIONS BY THE CEC AS REQUIRED CAN THEN BE ARRANGED.

NOTE: CONTRACTOR SHALL NOT TRACK MUD/SEDIMENT ONTO ANY PUBLIC OR PRIVATE ROAD. IF TRACKING OR SEDIMENT BUILD UP OCCURS, CONTRACTOR IS RESPONSIBLE FOR CLEAN UP AND CONTAINMENT TO RESTORE ROAD TO ITS ORIGINAL CONDITION.

TOPSOIL STOCKPILE
SIDE SLOPES NOT STEEPER THAN 3:1

INSTALL TEMPORARY DIVERSION DIKE TO DIRECT RUNOFF TO POND 2

APPROXIMATE LIMITS OF DISTURBANCE

POND 2 TO SERVE A SEDIMENT BASIN DURING CONSTRUCTION. SEDIMENT TO BE REMOVED BY CONTRACTOR WHEN SEDIMENT LEVEL REACHES ELEVATION 117.5

NOTE: INSTALL SEDIMENT FENCE ALONG BASE OF POND FILL SLOPES

DEVELOPER/OWNER:
FIRST BAPTIST CHURCH OF DADE CITY
352-567-3265

OWNER/AUTHORIZED AGENT:
FIRST BAPTIST CHURCH OF DADE CITY
352-567-3265

SITE OPERATOR/GENERAL CONTRACTOR:
SUPERINTENDENT:

TREE BARRICADE FENCING

TREE BARRICADE FENCING

NOTE: INSTALL SEDIMENT FENCE ALONG BASE OF POND FILL SLOPES

POND 2 TO SERVE A SEDIMENT BASIN DURING CONSTRUCTION. SEDIMENT TO BE REMOVED BY CONTRACTOR WHEN SEDIMENT LEVEL REACHES ELEVATION 103.5

NOTE: INSTALL SEDIMENT FENCE ALONG BASE OF POND FILL SLOPES

INSTALL SEDIMENT FENCE ALONG BOTTOM OF FILL SLOPE

TREE BARRICADE FENCING

APPROXIMATE LIMITS OF DISTURBANCE

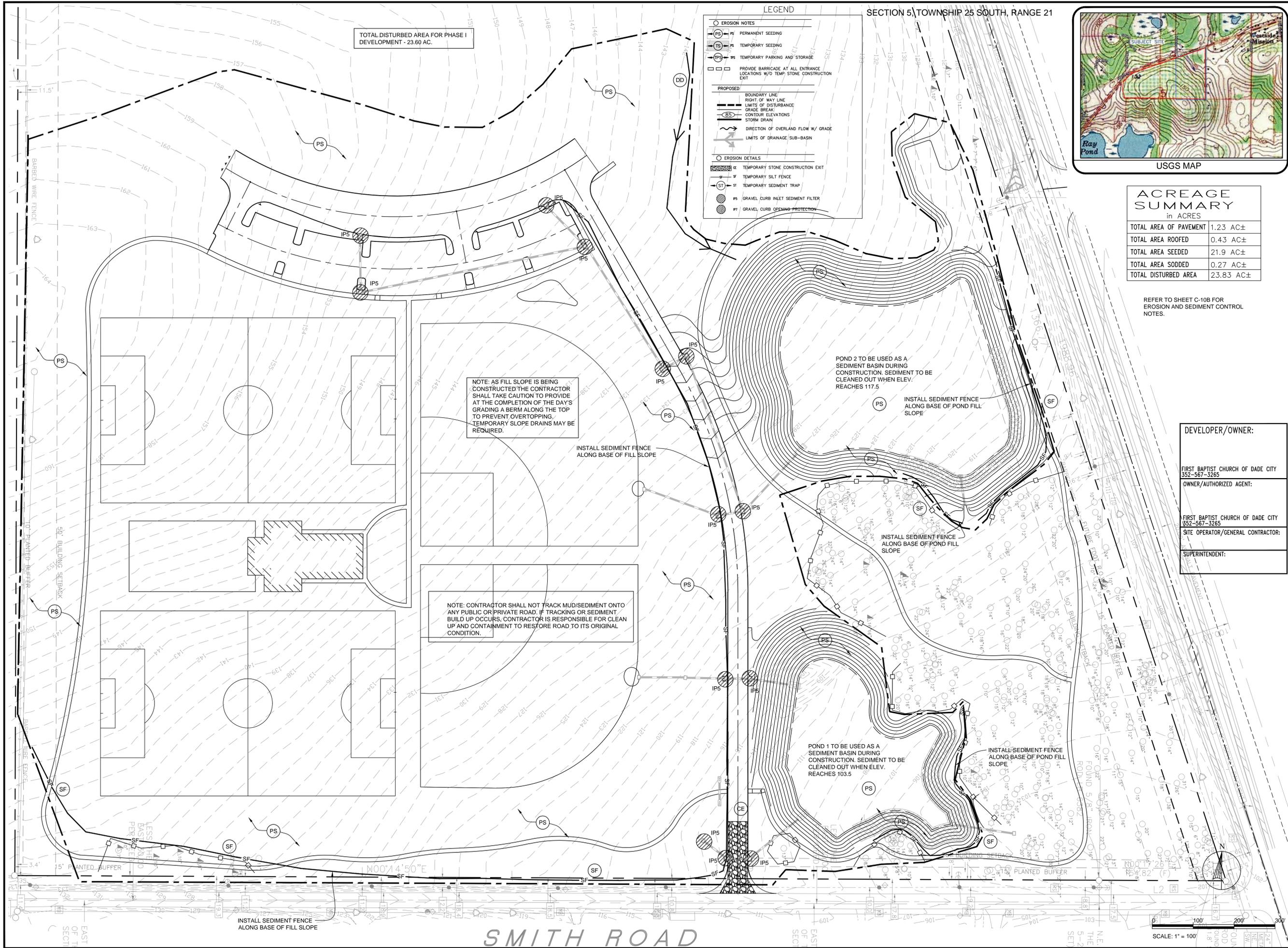
STABILIZED STONE CONSTRUCTION ENTRANCE

TREE BARRICADE FENCING

TREE BARRICADE FENCING



SMITH ROAD



TOTAL DISTURBED AREA FOR PHASE I DEVELOPMENT - 23.60 AC.

LEGEND

EROSION NOTES

- PS PERMANENT SEEDING
- TS TEMPORARY SEEDING
- IP5 TEMPORARY PARKING AND STORAGE
- PROVIDE BARRICADE AT ALL ENTRANCE LOCATIONS W/O TEMP. STONE CONSTRUCTION EXIT

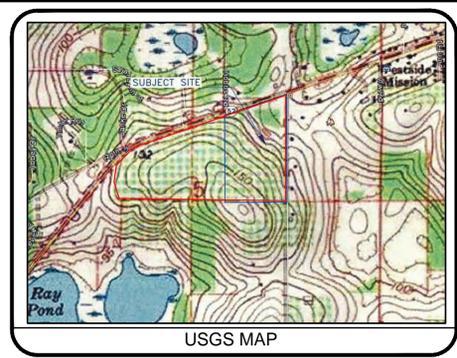
PROPOSED

- BOUNDARY LINE
- RIGHT OF WAY LINE
- LIMITS OF DISTURBANCE
- GRADE BREAK
- CONTOUR ELEVATIONS
- STORM DRAIN
- DIRECTION OF OVERLAND FLOW W/ GRADE
- LIMITS OF DRAINAGE SUB-BASIN

EROSION DETAILS

- TEMPORARY STONE CONSTRUCTION EXIT
- TEMPORARY SILT FENCE
- TEMPORARY SEDIMENT TRAP
- GRAVEL CURB INLET SEDIMENT FILTER
- GRAVEL CURB OPENING PROTECTION

SECTION 5, TOWNSHIP 25 SOUTH, RANGE 21



ACREAGE SUMMARY
in ACRES

TOTAL AREA OF PAVEMENT	1.23 AC±
TOTAL AREA ROOFED	0.43 AC±
TOTAL AREA SEEDED	21.9 AC±
TOTAL AREA SODDED	0.27 AC±
TOTAL DISTURBED AREA	23.83 AC±

REFER TO SHEET C-10B FOR EROSION AND SEDIMENT CONTROL NOTES.

NOTE: AS FILL SLOPE IS BEING CONSTRUCTED THE CONTRACTOR SHALL TAKE CAUTION TO PROVIDE AT THE COMPLETION OF THE DAY'S GRADING A BERM ALONG THE TOP TO PREVENT OVERTOPPING. TEMPORARY SLOPE DRAINS MAY BE REQUIRED.

NOTE: CONTRACTOR SHALL NOT TRACK MUD/SEDIMENT ONTO ANY PUBLIC OR PRIVATE ROAD. IF TRACKING OR SEDIMENT BUILD UP OCCURS, CONTRACTOR IS RESPONSIBLE FOR CLEAN UP AND CONTAINMENT TO RESTORE ROAD TO ITS ORIGINAL CONDITION.

POND 2 TO BE USED AS A SEDIMENT BASIN DURING CONSTRUCTION. SEDIMENT TO BE CLEANED OUT WHEN ELEV. REACHES 117.5

INSTALL SEDIMENT FENCE ALONG BASE OF POND FILL SLOPE

INSTALL SEDIMENT FENCE ALONG BASE OF POND FILL SLOPE

POND 1 TO BE USED AS A SEDIMENT BASIN DURING CONSTRUCTION. SEDIMENT TO BE CLEANED OUT WHEN ELEV. REACHES 103.5

INSTALL SEDIMENT FENCE ALONG BASE OF POND FILL SLOPE

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FIRST BAPTIST CHURCH OF DADE CITY
352-567-3265

OWNER/AUTHORIZED AGENT:
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SITE OPERATOR/GENERAL CONTRACTOR:

SUPERINTENDENT:

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C-10A

SCALE: 1" = 100'

4.3 Stabilized Construction Exit



Definition
A stabilized pad located at points where vehicles enter and leave a construction site.

Purpose
To reduce the amount of sediment transported onto public roads by motor vehicles or runoff.

Conditions Where Practice Applies
Wherever traffic will be leaving a construction site and moving directly onto a public road or other paved area.

Planning Considerations
Construction entrances provide an area where mud can be removed from construction vehicle tires before they enter a public road. If the action of the vehicle traveling over the stabilized pad is not sufficient to remove most of the mud, then the tires must be washed before the vehicle enters a public road. If tire washing is provided, provisions must be made to intercept the wash water and trap the sediment before it is carried offsite. Construction entrances should be used in conjunction with the stabilization of construction roads to reduce the amount of mud picked up by construction vehicles.

Design Criteria
Aggregate Size
If stone is utilized, FDOT No. 1 Coarse Aggregate, 1½ to 3½ inch (4 to 9 cm) stone is suggested. Wood chips may be used for single-family residential construction, provided that they can be prevented from floating away during a storm event. Manufactured products also are available to prevent or reduce the amount of sediment tracked onto

roadways. If a stabilized exit is not sufficient, street sweeping can be provided as an additional measure.

Dimensions
If stone is used, then the aggregate layer must be at least 6 inches (15 cm) thick. It must extend the FULL WIDTH of the vehicular ingress and egress area. The length of the entrance must be at least 50 feet (20 m). The exit should widen at its connection to the roadway to accommodate the turning radius of large trucks (see Figure 4.3a).

Washing
If conditions on the site are such that most of the mud is not removed by the vehicles traveling over the stone, then the vehicle tires must be washed before entering a public road. Wash water must be carried away from the entrance to a settling area to remove sediment (see Figure 4.3b). A wash rack may also be used to make washing more convenient and effective (see Figure 4.3c).

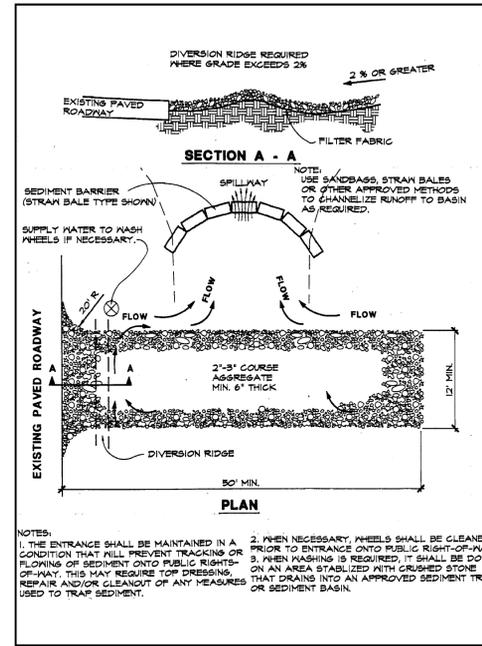


Figure 4.3a. Temporary Gravel Construction Entrance
Source: Erosion Draw

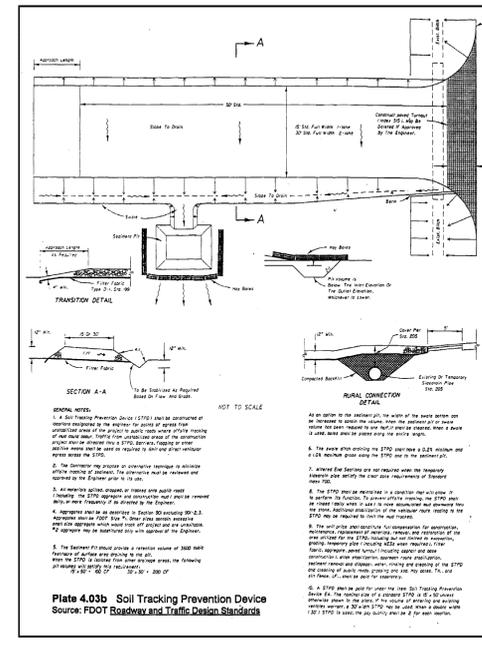


Figure 4.3b. Soil Tracking Prevention Device
Source: FDOT Roadway and Traffic Design Standards

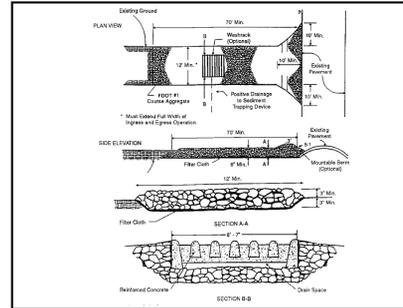


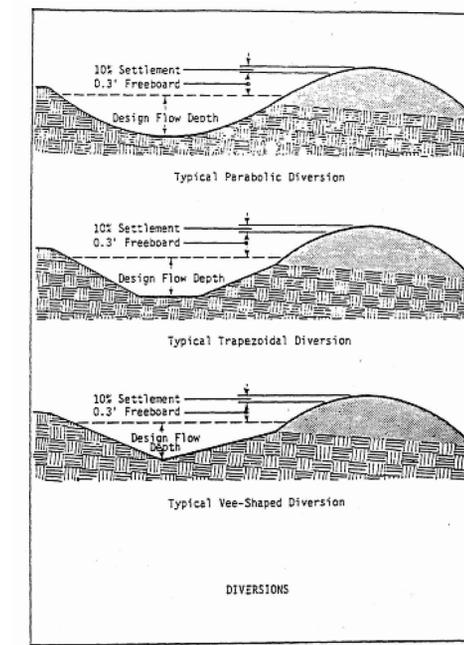
Figure 4.3c. Construction Entrance with Wash Rack
Source: 1983 Maryland Standards for Soil Erosion and Sediment Control

Location
The entrance should be located to provide for maximum utility by all construction vehicles.

Construction Specifications
The entrance area should be cleared of all vegetation, roots, and other objectionable material. A geotextile should be laid down to improve stability and simplify maintenance when gravel is used. The gravel shall then be placed over the geotextile to the specified dimensions.



Maintenance
The stabilized construction exit shall be maintained in a condition that will prevent the tracking or flow of mud onto public rights of way. This may require periodic maintenance as conditions demand, and the repair and/or cleanout of any structures used to trap sediments. All materials spilled, dropped, washed, or tracked from vehicles onto roadways or into storm drains must be removed immediately. Look for signs of trucks and trailer equipment "cutting corners" where the construction exit meets the roadway. Sweep the paved road as needed.



Source: Va SWCC Plate 1.18a

3. Peak rates of runoff used in determining the capacity requirements shall be as outlined in Chapter 5 of this manual or by other accepted methods.
Channel Design
The diversion channel may be parabolic, trapezoidal or Vee-shaped and shall be designed and constructed according to ES BMP 1.35 (STORMWATER CONVEYANCE CHANNELS).

Ridge Design
The supporting ridge cross-section shall meet the following criteria (Plate 1.18a).
1. The side slopes shall be no steeper than 2:1 and shall be flat enough to insure ease of maintenance of the structure and its protective vegetative cover.
2. The width at the design water elevation shall be a minimum of 4 feet.

3. The minimum freeboard shall be 0.3 foot.
4. The design shall include a 10 percent settlement factor. Outlet Diversions shall be stabilized outlets which will convey concentrated runoff without erosion. Acceptable outlets include STORMWATER CONVEYANCE CHANNELS (ES BMP 1.35); LEVEL SPREADERS (ES BMP 1.40); OUTLET PROTECTION (ES BMP 1.36); and PAVED FLUMES (ES BMP 1.31).

Outlets shall be constructed and stabilized prior to the operation of the diversion.
Stabilization

- Unless otherwise stabilized, the ridge and channel shall be seeded and mulched within 15 days of installation in accordance with ES BMP 1.66 (PERMANENT SEEDING).
- Disturbed areas draining into the diversion shall be seeded and mulched prior to or at the time the diversion is constructed.
- Permanent diversions should include a filter strip of close growing grass maintained above the channel. The width of the filter, measured from the center of the channel, shall be one-half the channel width plus 15 feet.

Construction Specifications
1. All trees, brush, stumps, debris, and other obstructions shall be removed and disposed of so as not to interfere with the proper

functioning of the diversion.
2. The diversion shall be excavated or shaped to line, grade, and crosssection as required to meet the criteria specified herein, free of irregularities which will impede flow.
3. Fills shall be compacted as needed to prevent unequal settlement that would cause damage in the complete diversion.
4. All earth removed and not needed in construction shall be spread or disposed of so that it will not interfere with the functioning of the diversion.
5. Permanent stabilization of disturbed areas shall be done in accordance with the applicable standard and specification contained in this handbook. Permanent stabilization techniques include PERMANENT SEEDING (ES BMP 1.66) and SODDING. (ES BMP 1.67).
Maintenance
Before final stabilization, the diversion should be inspected after every rainfall. Sediment shall be removed from the ditchline and repairs made as necessary. Seeded areas which fail to establish a vegetative cover shall be reseeded as necessary.

ES BMP 1.25 TEMPORARY SEDIMENT TRAP Definition
A small temporary ponding area formed by excavation and/or an embankment across a drainageway.

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4.4.1 Silt Fence

Definition

A temporary sediment barrier consisting of a filter fabric stretched across and attached to supporting posts and anchored. Some silt fence is wire reinforced for support.

Purpose

The purpose of a silt fence is to slow the velocity of water and retain sediment onsite.

Conditions Where Practice Applies

A silt fence should only be installed for sediment capture under sheetflow conditions. It should not be installed for channel flow conditions or in live streams or waterways.

Planning Considerations

Silt fences can trap a much higher percentage of suspended sediments than straw bales and are preferable to straw barriers in many cases. The most effective application is to install two parallel silt fences spaced a minimum of three feet apart. The installation and maintenance methods outlined here can improve performance.

Silt fences composed of a wire support fence with attached synthetic filter fabric slow the flow rate significantly and have high filtering efficiency. Both woven and nonwoven synthetic fabrics are commercially available. The woven fabrics are generally stronger than the nonwoven fabrics. When tested under acid and alkaline water conditions, most of the woven fabrics increase in strength. There is a variety of reactions among the nonwoven fabrics. The same is true of testing under extensive ultraviolet radiation. Permeability rates vary regardless of fabric type. While all of the fabrics demonstrate high filtering efficiencies for sandy sediments, there is considerable variation among both woven and nonwoven fabrics when filtering finer silt and clay particles.

Design Criteria

1. No formal design is required for many small projects and for minor and incidental applications.
2. Silt fences shall have an expected usable life of six months. They are applicable around perimeters and stockpiles, and at temporary locations where continuous construction changes the earth contour and runoff characteristics.
3. Silt fences have limited applicability to situations in which only sheet or overland flows are expected. They normally cannot filter the volumes of water generated by channel flows, and many fabrics do not have sufficient structural strength to support the weight of water ponded behind the fence line.



Construction Specifications

Materials

1. Synthetic filter fabric shall be a pervious sheet of propylene, nylon, polyester, or polyethylene yarn. It shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum of 6 months of expected usable construction life at a temperature range of 0 F. to 120 F. (-17 C. to 49 C.).
2. The stakes for a silt fence shall be 1 x 2 inches (2.5 x 5 cm) wood (preferred), or equivalent metal with a minimum length of 3 feet (90 cm).
3. Wire fence reinforcement for silt fences using standard-strength filter cloth shall be a minimum of 36 inches (90 cm) in height, shall be a minimum of 14 gauge, and shall have a maximum mesh spacing of 6 inches (15 cm).

Sheetflow Application: Silt Fence

This sediment barrier uses standard-strength or extra-strength synthetic filter fabrics. It is designed for situations in which only sheet or overland flows are expected (see Figures 4.4a and 4.4b):

1. The height of a silt fence shall not exceed 36 inches (90 cm). Higher fences may impound volumes of water sufficient to cause failure of the structure.
2. The filter fabric shall be purchased in a continuous roll cut to the length of the barrier to avoid the use of joints. When joints are necessary, filter cloth shall be spliced as described in Item 8 below.
3. Posts shall be spaced a maximum of 10 feet (3 m) apart at the barrier location and driven securely into the ground a minimum of 12 inches (30 cm). When extra-strength fabric is used without the wire support fence, post spacing shall not exceed 6 feet (1.8 m).
4. A trench shall be excavated approximately 4 inches (10 cm) wide and 4 inches (10 cm) deep along the line of posts and upslope from the barrier.
5. When standard-strength filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the posts using heavy-duty wire staples at least 1 inch (25 mm) long, tie wires, or hog rings. The wire shall extend into the trench a minimum of 2 inches (5 cm) and shall not extend more than 36 inches (90 cm) above the original ground surface.
6. The standard-strength filter fabric shall be stapled or wired to the fence, and 8 inches (20 cm) of the fabric shall be extended into the trench. The fabric shall not extend more than 36 inches (90 cm) above the original ground surface.
7. When extra-strength filter fabric and closer post spacing are used, the wire mesh support fence may be eliminated. In this case, the filter fabric is stapled or wired directly to the posts with all other provisions of Item 6 applying.

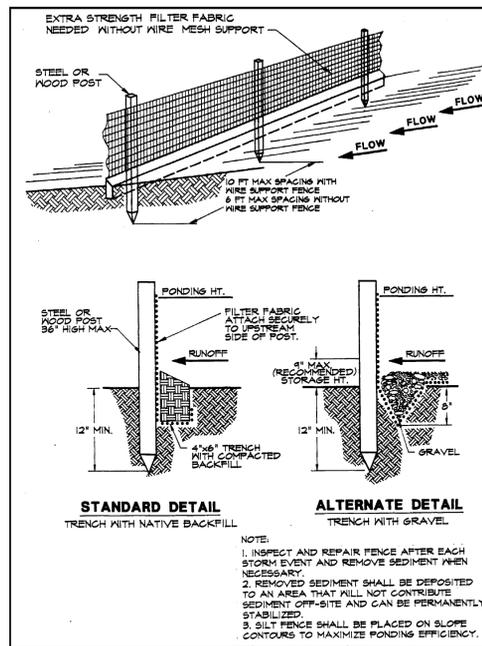


Figure 4.4a. Silt Fence

Source: Erosion Draw

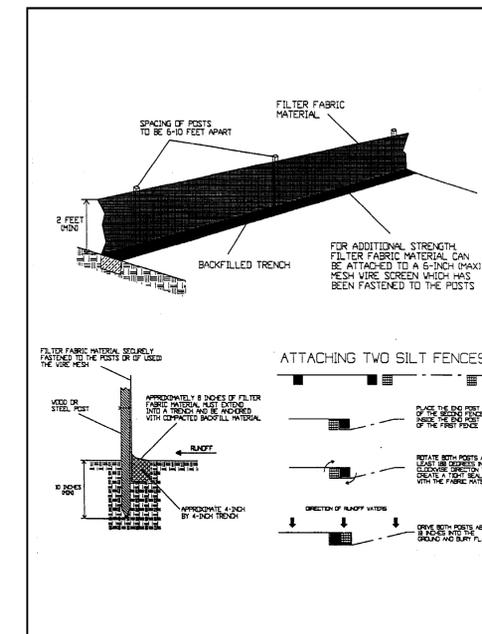


Figure 4.4b. Installing a Filter Fabric Silt Fence

Source: HydroDynamics, Inc.

7.4 Temporary Seeding

Definition

The establishment of temporary vegetative cover on disturbed areas by seeding with appropriate, rapidly growing annual plants.

Purposes

1. To reduce erosion and sedimentation by stabilizing disturbed areas that will not be brought to final grade within 7 days or more.
2. To reduce problems associated with mud and dust production from bare soil surfaces during construction.

Conditions Where Practice Applies

Where exposed soil surfaces are not to be fine graded for periods of 7 days or more. Such areas include denuded areas, soil stockpiles, berms, dams, the sides of sediment basins, and temporary road banks.

Specifications

Prior to seeding, install necessary erosion control practices such as berms, waterways, and basins.

Plant Selection

Select plants appropriate to the season, region, and site conditions. Consult with your local Agricultural Extension agent, county, FDEP, water management district, or FDOT office, or see Table 1.65a of the Florida Development Manual.

Seedbed Preparation

To control erosion on bare soil surfaces, plants must be able to germinate and grow. Seedbed preparation is essential. A soil test should be taken to determine liming and fertilization requirements. In the absence of a soil test, the following guidelines apply:

1. **Liming** – Where soils are known to be highly acid (pH 6.0 and lower), lime should be applied at the rate of 2 tons of pulverized agricultural limestone per acre.
2. **Fertilizer** – Shall be applied as 217.5 pounds per acre (5 pounds/1,000 square feet) (50.4 kg/ha) of 50% slow-release 10-20-20 or equivalent. Lime and fertilizer shall be incorporated into the top 2 to 4 inches (5 to 10 cm) of the soil. If quick-release nitrogen is used, apply 2 to 3 weeks after seed has sprouted.
3. **Surface Roughening** – If the area has been recently loosened or disturbed, no further roughening is required. When the area is compacted, crusted, or hardened, the soil surface shall be loosened by discing, raking, harrowing, or other acceptable means (see SURFACE ROUGHENING in this chapter).

4. Tracking – Tracking with bulldozer cleats is most effective on sandy soils. This practice often causes the undue compaction of the soil surface, especially in clayey soils, and does not aid plant growth as effectively as other methods of surface roughening.

Seeding

Seed shall be evenly applied with a cyclone seeder, drill, cultipacker-seeder, or hydroseeder. Small grains shall be planted no more than 1 inch deep. Grasses and legumes shall be planted no more than 1/4 inch (6 mm) deep.

Mulching

1. Mulch should usually be applied to reduce damage from water runoff or wind erosion, and to improve moisture conditions for seedlings. Mulching without seeding should be considered for very short-term protection. The use of mulch is a judgment decision based on the time of seeding and conditions of individual sites. When used, mulch shall be applied according to MULCHING in this chapter.
2. Seedlings made on slopes in excess of 3:1, or on adverse soil conditions, or during excessively hot or dry weather, shall be mulched according to MULCHING in this chapter.
3. Seedlings made during optimum spring and summer seeding dates, with favorable soil and site conditions, may not require mulch.

Reseeding

Areas that fail to establish enough vegetative cover to prevent rill erosion will be filled in with proper topsoil and reseeded as soon as they are identified.

7.7 Mulching

Definition

The application of plant residues or other suitable materials to the soil surface.

Purposes

1. To prevent erosion by protecting the soil surface from raindrop impacts and reducing the velocity of overland flow.
2. To foster the growth of vegetation by increasing available moisture and providing insulation against extreme heat and cold.

Conditions Where Practice Applies

1. Areas that have been permanently seeded should be mulched immediately after seeding.
2. Areas that cannot be seeded because of the season should be mulched to temporarily protect the soil surface. An organic mulch (not wood fiber alone) shall be used, and the area should then be seeded as soon as feasible in spring.
3. Mulch shall be used together with plantings of trees, shrubs, or certain ground covers that do not provide adequate soil stabilization by themselves.
4. Mulch shall be used in conjunction with the temporary seeding operations specified in TEMPORARY SEEDING in this chapter.
5. Mulches used in areas of concentrated flows or frequent inundation shall be properly anchored to prevent them from floating away.

Specifications

Types of Mulches

1. **Organic Mulches** – Organic mulches may be used in any area where mulch is required, subject to the restrictions noted in Table 7.1. Select mulch material based on site requirements, the availability of materials, and the availability of labor and equipment. The table lists the most commonly used organic mulches. Other materials, such as peanut hulls and cotton burs, may also be used. Mulch materials shall be spread uniformly, by hand or machine. When spreading straw by hand, divide the area to be mulched into approximately 1,000-square-foot sections and place 70 to 90 pounds (1 1/2 to 2 bales) (30 to 40 kg) of straw in each section, to facilitate uniform distribution.
2. **Nets, Mats, and Blankets** – Nets may be used alone on level areas, on slopes no steeper than 3:1, and in waterways, as specified in STORMWATER CONVEYANCE CHANNEL in Chapter 6. When mulching is done in late fall or during June, July, or August, or where soil is highly erodible, net should only be used in conjunction with an organic

mulch such as straw. When net and organic mulch are used together, the net should be installed over the mulch, except when the mulch is wood fiber. Wood fiber may be sprayed on top of the installed net. Excelsior binders are protective mulches and may be used alone on erodible soils and during all times of year. Jute net shall be heavy, uniform cloth woven of single jute yarn, which if 36 to 48 inches (90 to 120 cm) wide shall weigh an average of 1.2 pounds per linear yard (0.6 kg/m). Other products designed to control erosion shall conform to the manufacturer's specifications and should be applied in accordance with the manufacturer's instructions, provided those instructions are at least as stringent as this specification. Examples of these products include Erosionet, Holdgro, Weedchek, and Curlex. (NOTE: The use of trade names does not constitute a product endorsement by FDEP). In no case shall these products cover less than 30% of the soil surface.

Table 7.1. Organic Mulch Materials and Application Rates

Mulches	Rate Per Acre	Rates Per 1,000 Square Feet	Notes
Straw	1.5 – 2 tons	70 – 90 pounds.	Free from weeds and coarse matter. Must be anchored. Spread with mulch blower or by hand.
Wood Fibers	0.5 – 1.0 tons	25 – 50 pounds	Fibers 1.5 inch minimum length. Do not use alone in winter or during hot, dry weather. Apply as slurry.
Corn Stalks	4 – 6 tons	185 – 275 pounds	Cut or shredded in 4 to 6 inch lengths. Air dried. Do not use in fine turf areas. Apply with mulch blower or chip handler, or by hand.
Wood Chips	4 – 6 tons	185 – 275 pounds	Free of coarse matter. Air dried. Treat with 12 pounds nitrogen per ton. Do not use in fine turf areas. Apply with mulch blower or chip handler, or by hand.
Shredded Bark Chips	50 – 70 cubic yards	1 – 2 cubic yards	Free of coarse matter. Air dried. Do not use in fine turf areas. Apply with mulch blower or chip handler, or by hand.

Source: Virginia SWCC

3. **Chemical Mulches** – Chemical mulches may be used alone only in the following situations:
 - a. Where no other mulching material is available.
 - b. In conjunction with temporary seeding when mulch is not required for that practice.
 - c. From May 1 to June 15 and September 15 to October 15, provided that they are used on areas with slopes no steeper than 4:1 that have been roughened in accordance with SURFACE ROUGHENING in this chapter.

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C-11A

Installation

Prior to mulching, the following activities should be carried out:

1. As required, shape and grade the waterway, channel, slope, or other area to be protected.
2. Remove all rocks, clods, or debris larger than 2 inches in diameter that will prevent contact between the net and the soil surface.
3. Lime and fertilizer should be incorporated and the surface roughened as needed. Seed should be applied prior to mulching, except in the following cases:
 - a. Where seed is to be applied as part of a hydroseeder slurry containing wood fiber mulch.
 - b. Where seed is to be applied following a straw mulch spread during the winter months.
 - c. Where a hydroseeder slurry is applied over straw.

Mulch Anchoring

Straw mulch must be anchored immediately after spreading to prevent windblow. The other organic mulches listed in Table 7.1 do not require anchoring. The following methods of anchoring straw may be used:

1. **Mulch Anchoring Tool** – A tractor-drawn implement is used to punch mulch into the soil surface. This method provides maximum erosion control with straw. It is limited to use on slopes no steeper than 3:1, where equipment can operate safely. Machinery shall be operated on the contour.
2. **Liquid Mulch Binders** – The application of liquid mulch binders and tackifiers should be heaviest at the edges of areas and at the crests of ridges and banks, to prevent windblow. Binders should be applied uniformly over the rest of the area. They may be applied after mulch is spread or may be sprayed into the mulch as it is being blown onto the soil. Applying straw and binder together is the most effective method. Chemical binders such as Petrosel, Terratack, Road Oyl, and Aerospray may be used as recommended by the manufacturer to anchor mulch. These are expensive and therefore are usually used in small areas or in residential areas where asphalt may be a problem. (NOTE: The use of trade names does not constitute a product endorsement by FDEP.)
3. **Mulch Nets** – Lightweight plastic, cotton, or paper nets may be stapled over the mulch. The nets shall be secured by stakes, staples, or pins according to the manufacturer's recommendations (see Figure 7.7a for details).

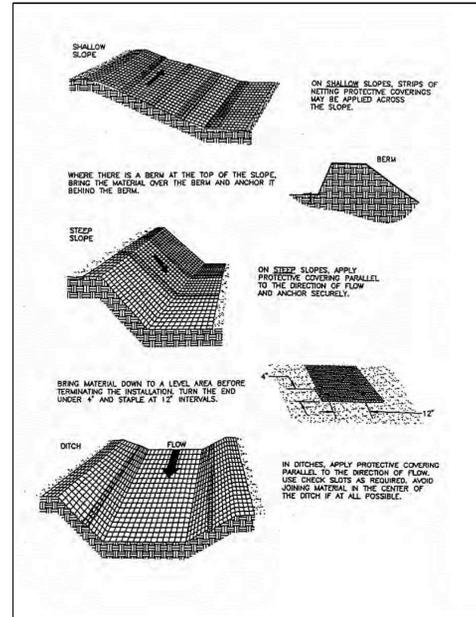


Figure 7.7a. Typical Orientation of Treatment 1 – Soil Stabilization Blanket
Source: Adapted from Ludlow Products Brochure

4. **Peg and Twine** – Because it is labor intensive, this method is feasible only in small areas where other methods cannot be used. Drive 8 to 10 inch (20 to 25 cm) wooden pegs to within 3 inches (8 cm) of the soil surface every 4 feet (1.2 m) in all directions. Stakes may be driven before or after straw is spread. Secure mulch by stretching twine between pegs in a criss-cross-within-a-square pattern. Turn twine 2 or more times around each peg.

Laying Nets, Mats, and Blankets

Nets, mats, and blankets should be installed according to the manufacturer's instructions, provided that these are at least as stringent as the following general recommendations (see Figure 7.7b):

1. Start laying the net from the top of the channel or the top of the slope and unroll downgrade.
2. Allow the net to lie loosely on the soil—DO NOT STRETCH.
3. To secure the net, the upslope ends should be buried in a slot or trench no less than 6 inches (15 cm) deep. Tamp earth firmly over the net. Staple the net every 12 inches (30 cm) across the top end. The edges shall be stapled every 3 feet (90 cm). Where 2 strips of net are laid side by side, the adjacent edges shall be overlapped 3 inches (8 cm) and stapled together. Staples shall be placed down the center of net strips at 3 foot (90 cm) intervals. DO NOT STRETCH the net when applying staples.

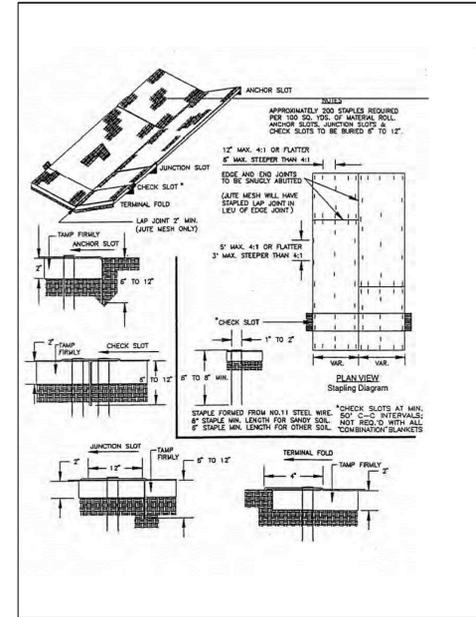


Figure 7.7b. Typical Treatment 1 – Soil Stabilization Blanket Installation Guide
Source: Virginia DOT

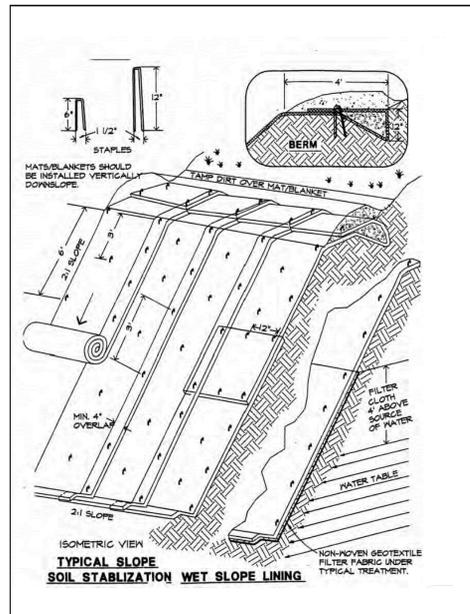


Figure 7.7c. Erosion Blankets and Turf Reinforcement Mats – Slope Installation
Source: Erosion Draw

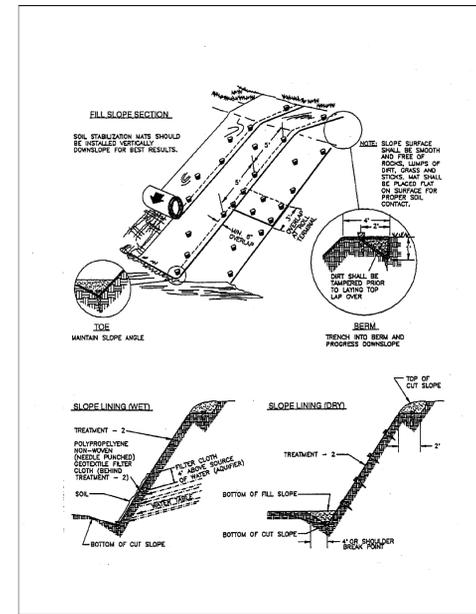


Figure 7.7d. Typical Treatment 2 – Soil Stabilization Matting Slope Installation
Source: Virginia DOT

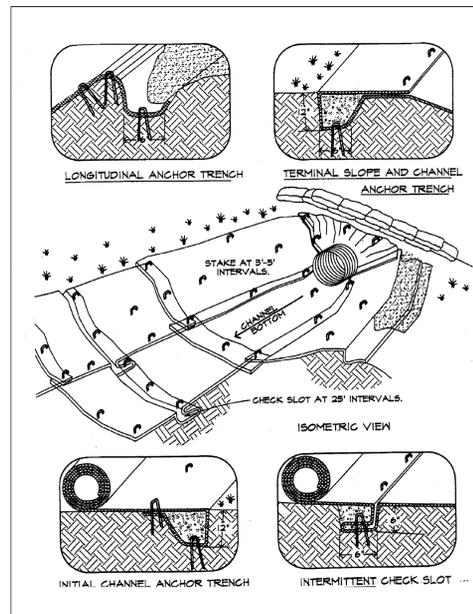


Figure 7.7e. Erosion Blankets and Turf Reinforcement Mats – Channel Installation
Source: Erosion Draw

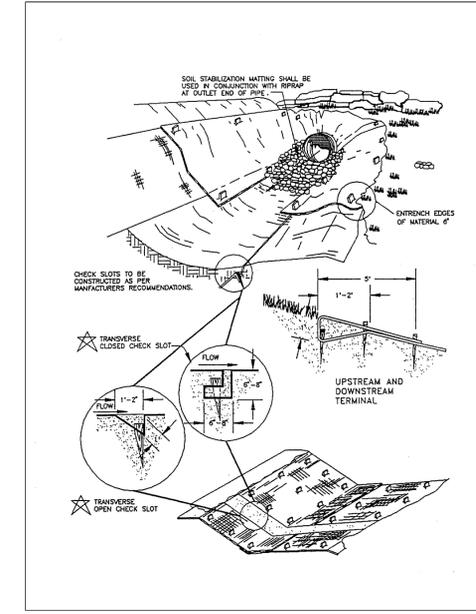


Figure 7.7f. Typical Treatment 2 – Soil Stabilization Matting Installation
Source: Virginia DOT

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7.6 Sodding

Definition

Stabilizing fine-graded disturbed areas by establishing permanent grass stands with sod.

Purposes

- To establish permanent turf immediately.
- To prevent erosion and damage from sediment and runoff by stabilizing the soil surface.
- To reduce the production of dust and mud associated with bare soil surfaces.
- To stabilize drainageways where concentrated overland flow will occur.

Conditions Where Practice Applies

- Disturbed areas that require immediate vegetative covers, or where sodding is preferred to other means of grass establishment.
- The following locations are particularly suited to stabilization with sod:
 - Slopes and buffer strips.
 - Waterways and swales, especially around drop inlets.
 - Residential or commercial lawns where quick use or aesthetics are factors.

Specifications

Soil Preparation

- Prior to soil preparation, areas to be sodded shall be brought to final grade in accordance with the approved plan. These operations should leave as much topsoil as possible or replace the topsoil to a depth of 4 inches (10 cm) (see Figure 7.6a).
- Soil tests should be carried out to determine the exact requirements for lime. They may be conducted by the state Soil Testing Laboratory at the University of Florida or a reputable commercial laboratory. Information on state soil tests is available from county Cooperative Extension agents. When a soil test is not carried out, pulverized agricultural limestone may be added at a rate of 100 pounds per 1,000 square feet (2 tons/acre).
- Before sod is laid, the soil surface shall be clear of trash, debris, roots, branches, stones, and clods more than 2 inches (5 cm) in length or diameter. Sod shall not be applied to gravel or other non-soil surfaces.

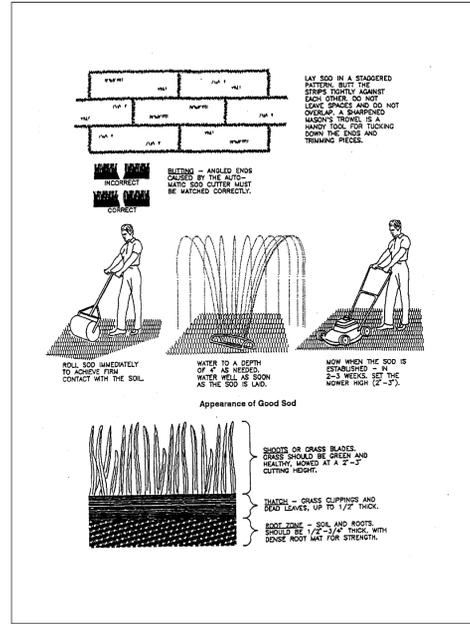


Figure 7.6a. Sodding
Source: Virginia DSWC

- Any irregularities in the soil surface resulting from topsoil or other operations shall be filled or leveled to prevent the formation of depressions or water pockets.
- Areas to be topsoiled and the topsoil used shall fulfill the requirements of TOPSOILING (in this chapter). No sod shall be spread on soil that has been treated with soil sterilants until enough time has elapsed to permit the dissipation of toxic materials.

Sod Quality

- Sod should be free of weeds and undesirable coarse weedy grasses. If possible, Certified or Approved turfgrass sod should be used.
- Sod shall be machine cut at a uniform soil thickness of 3/4 inch (20 mm), plus or minus 1/4 inch (6 mm), at the time of cutting. This thickness shall exclude shoot growth and thatch.
- Pieces of sod shall be cut to the supplier's standard width and length, with a maximum allowable deviation in any dimension of 5%. Torn or uneven pads are not acceptable.
- Standard-size sections of sod shall be strong enough to support their own weight and retain their size and shape when suspended from a firm grasp on one end of the section.
- Sod shall not be cut or laid in excessively wet or dry weather.
- Sod shall be harvested, delivered, and installed within 36 hours.

Installation

Solid Sodding

- Irrigate areas to be sodded with a minimum of 1/2 inch (13 mm) of water, unless recent rains have provided an equivalent amount of moisture (see Figure 7.6b).
- The first row of sod shall be laid in a straight line, with subsequent rows placed parallel to and butting tightly against each other. Lateral joints shall be staggered to promote more uniform growth and strength. Care shall be exercised to ensure that the sod is not stretched or overlapped and that all joints are butted tightly to prevent voids that would dry out the roots.

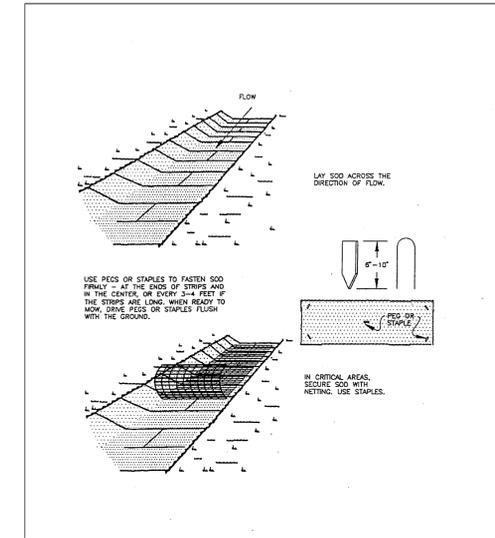


Figure 7.6b. Sodding Swales and Waterways
Source: Virginia DSWC

- On slopes of 3:1 or greater, or wherever erosion may be a problem, sod shall be laid with staggered joints and secured by pegging or other approved methods. Sod shall be installed with the length perpendicular to the slope (on the contour). Begin laying sod at the bottom of the slope and work uphill. On very steep slopes, the use of ladders facilitates the work and prevents damage to the sod.
- Surface water flow cannot always be diverted from the face of the slope, but a capping strip of heavy jute or erosion netting, properly secured, along the crown of the slope provides extra protection against the lifting and undercutting of sod. The same technique is used to fortify sod in water-carrying channels and other critical areas. Use wire staples to anchor heavy jute or erosion netting in channels.
- As the sodding of clearly defined areas is completed, sod shall be rolled or tamped to provide firm contact between roots and soil.
- After rolling, sod shall be irrigated deeply enough that the underside of the sod pad and the soil 4 inches (10 cm) below the sod are thoroughly wet.
- During the first week, in the absence of adequate rainfall, watering shall be performed as often as necessary to maintain moist soil to a depth of at least 4 inches (10 cm).
- The first mowing shall not be attempted until the sod is firmly rooted, usually after 2 to 3 weeks. Not more than one-third of the grass leaf should be removed at any one cutting.
- Two to 4 weeks after sod is laid, fertilize at an application rate of 300 pounds per acre or 6.7 pounds per 1,000 square feet with 15-0-15 or 15-2-15 slow release.

Spot Sodding

- Spot sodding is the planting of plugs or blocks, a minimum of 4 inches (10 cm) in diameter or square, of sod at measured intervals. The plugs or blocks should be placed 1 foot (30 cm) apart.
- Sod spots in a row should be placed alternately and not directly opposite sod spots in adjacent rows.
- Fit the plugs or blocks tightly into the prepared holes and tamp them firmly into place.
- Irrigate deeply enough that the underside of the sod spot and the soil 4 inches (10 cm) below the sod are thoroughly wet.

Strip Sodding

- Areas to be strip sodded should be fertilized, limed, prepared, and smoothed as in solid sodding.
- Lay the strips end to end in rows 1 to 1 1/2 feet (30 to 45 cm) apart, with the strips a minimum of 2 to 4 inches (5 to 10 cm) wide.

- Roll or tamp the strips thoroughly to create firm contact between roots and soil.
- Irrigate deeply enough that the underside of the strips and the soil 4 inches (10 cm) below the strips are wet.

Sodded Swales and Waterways

- Care should be taken to prepare the soil adequately in accordance with this specification. The sod type shall consist of plant materials able to withstand the designed velocity (see STORMWATER CONVEYANCE CHANNEL) (in Chapter 6).
- Sod strips in swales and waterways shall be laid perpendicular to the direction of flow. Care should be taken to butt the ends of the strips tightly.
- After rolling or tamping, sod shall be pegged or stapled to resist washout during the establishment period. Chicken wire, jute, or other netting may be pegged over the sod for extra protection in critical areas.
- All other specifications for this practice shall be adhered to when sodding a swale or waterway.

Maintaining Established Sod

- After the first week, sod shall be watered as necessary to maintain adequate moisture in the root zone and prevent dormancy.
- Apply lime and fertilizer under a regular program based on soil tests and on the use and general appearance of the vegetative cover. In the absence of a soil test, apply 1 to 2 tons per acre (45 to 90 pounds/1,000 square feet) (2.24 to 4.48 t/ha) of finely ground agricultural limestone every 3 years. Apply 300 pounds per acre (6.7 pounds/1,000 square feet) of 15-0-15 or 15-2-15 slow-release fertilizer in the spring and fall.
- Mow to control weeds, improve the appearance of the vegetative cover, and reduce fire hazard, as necessary. In general, the coarser the leaf texture of the grass, the higher it should be cut. Continuous, close mowing results in a loss of vigor and reduced stand. No more than one-third of the grass leaf should be removed in any mowing.

REVISIONS	
ISSUED	COMMENT

SCOTT K. STANNARD, P.E.
FL PE NO. 50565

CSS
C.O.A. # 27575
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Lutz, FL 33549
(813) 885-2052
www.css-entg.com

PREPARED FOR:
**FIRST BAPTIST CHURCH
OF DADE CITY**
37511 CHURCH AVENUE
DADE CITY, FL 33525
PH: (352) 567-3265

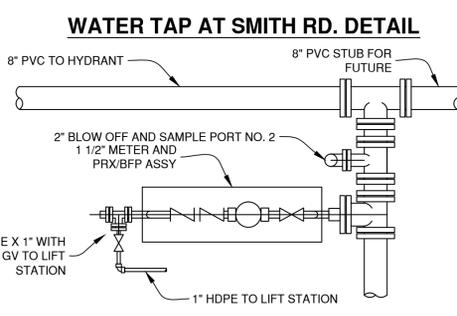
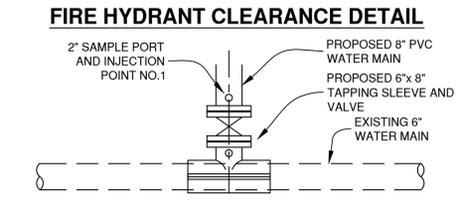
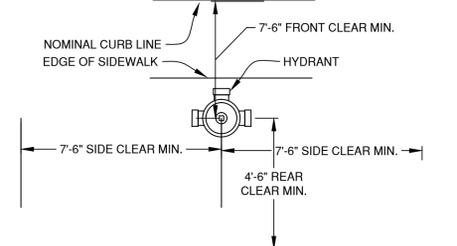
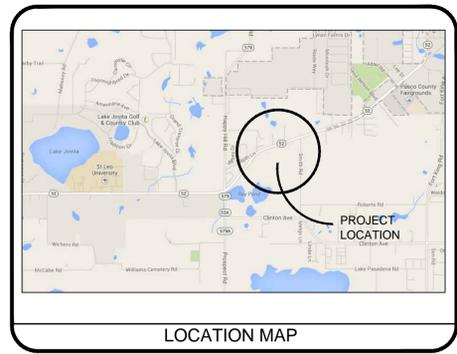
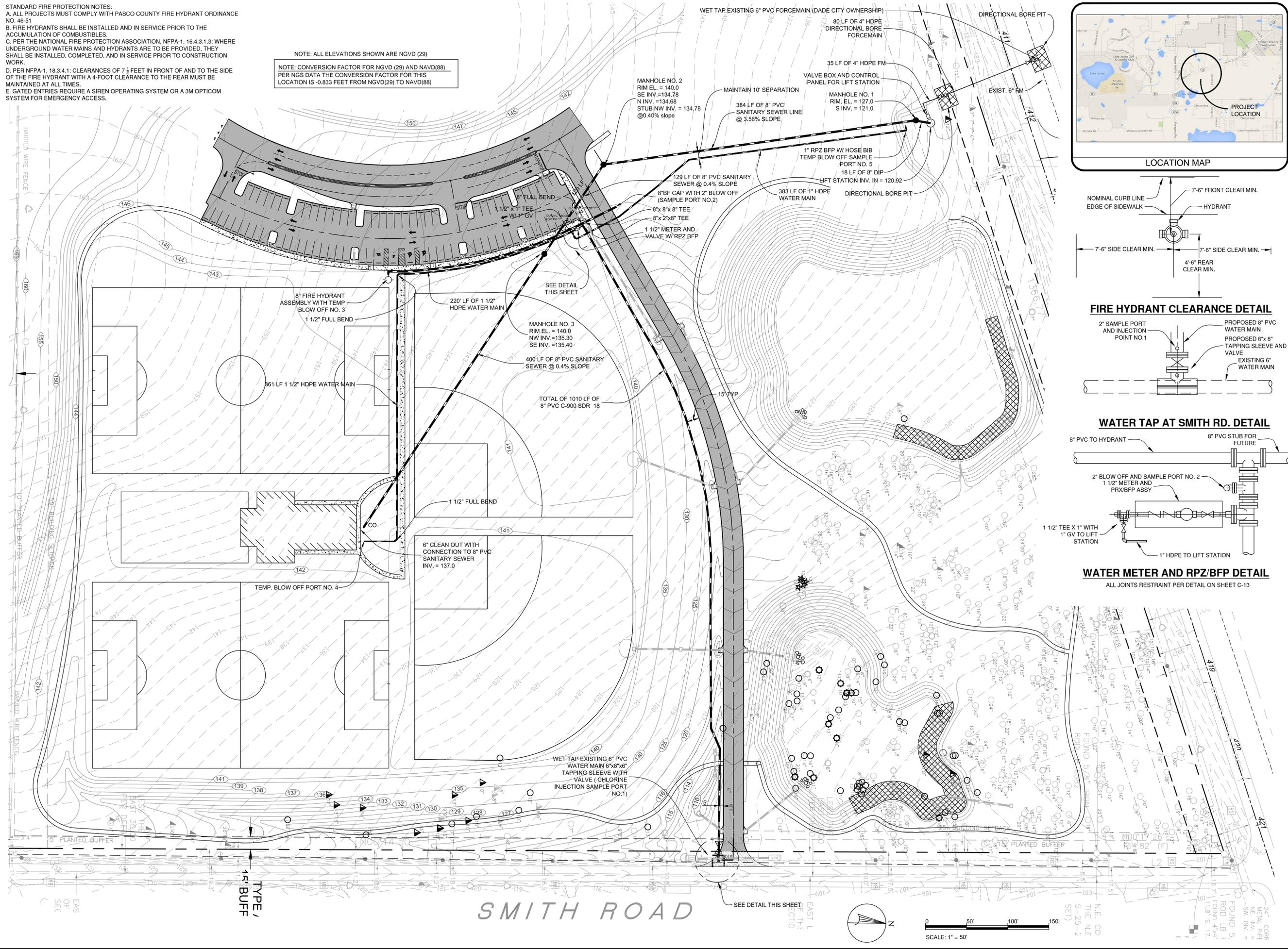
**EROSION CONTROL
DETAILS PHASE 1**
**FIRST BAPTIST CHURCH
OF DADE CITY**
37511 CHURCH AVENUE
DADE CITY, FL 33525
(352) 567-3265

Date: 11-24-14
Drawn: LAB
Checked: SKS

C-11D

STANDARD FIRE PROTECTION NOTES:
 A. ALL PROJECTS MUST COMPLY WITH PASCO COUNTY FIRE HYDRANT ORDINANCE NO. 46-51
 B. FIRE HYDRANTS SHALL BE INSTALLED AND IN SERVICE PRIOR TO THE ACCUMULATION OF COMBUSTIBLES.
 C. PER THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA-1, 16.4.3.1.3, WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED, COMPLETED, AND IN SERVICE PRIOR TO CONSTRUCTION WORK.
 D. PER NFPA-1, 18.3.4.1, CLEARANCES OF 7 1/2 FEET IN FRONT OF AND TO THE SIDE OF THE FIRE HYDRANT WITH A 4-FOOT CLEARANCE TO THE REAR MUST BE MAINTAINED AT ALL TIMES.
 E. GATED ENTRIES REQUIRE A SIREN OPERATING SYSTEM OR A 3M OPTICOM SYSTEM FOR EMERGENCY ACCESS.

NOTE: ALL ELEVATIONS SHOWN ARE NGVD (29)
 NOTE: CONVERSION FACTOR FOR NGVD (29) AND NAVD(88)
 PER NGS DATA THE CONVERSION FACTOR FOR THIS LOCATION IS -0.833 FEET FROM NGVD(29) TO NAVD(88)



ISSUED	REVISIONS	COMMENT

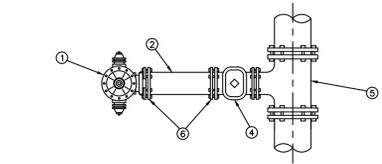
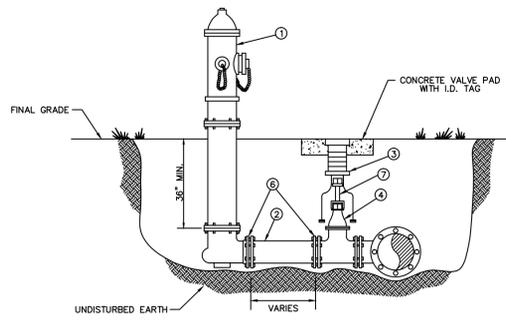
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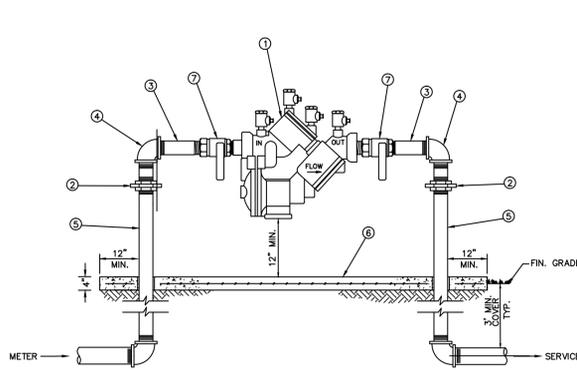
PREPARED FOR:
FIRST BAPTIST CHURCH OF DADE CITY
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UTILITY PLAN
 PHASE 1
FIRST BAPTIST CHURCH OF DADE CITY
 37511 CHURCH AVENUE
 DADE CITY, FL 33525
 (352) 567-3265

Date: 11-24-14
 Drawn: LAB
 Checked: SKS
C-12

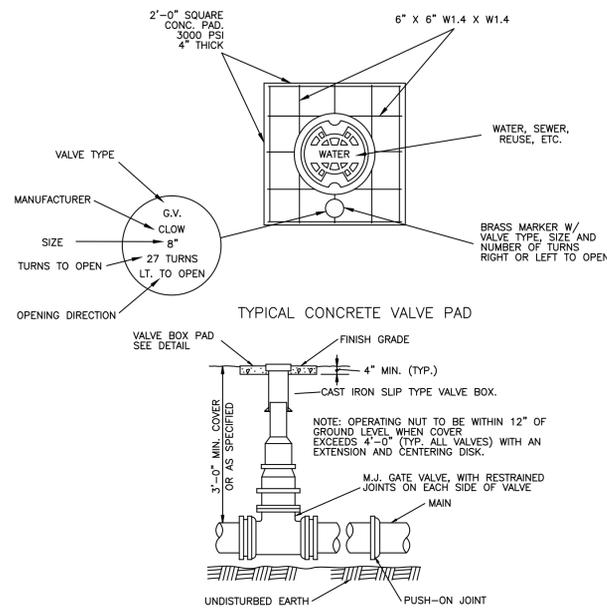


ITEM	QUANT.	DESCRIPTION
1	1	HYDRANT, FIRE (5 1/4" VALVE MIN.), PAINTED YELLOW
2	*	6" PIPE, P.V.C. (OR-18)
3	1	BOX, VALVE SLIP TYPE
4	1	6" VALVE, GATE, M.J. RESILIENT WEDGE
5	1	TEE, ANCHORING, M.J.
6	*	6" RESTRAINER GLAND (MEGALUG)
7	*	VALVE EXTENSION ROD, AS NECESSARY (3' MAX. BELOW GRADE)

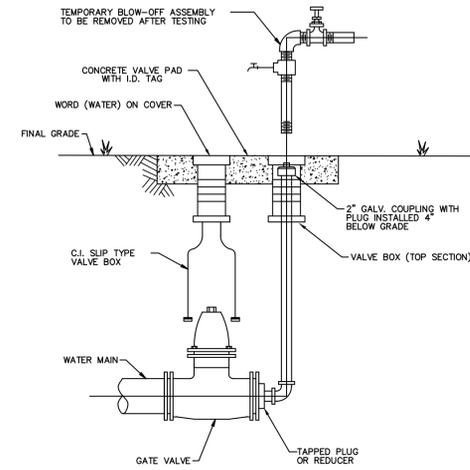


ITEM	QUANT.	DESCRIPTION
1	1	BACKFLOW PREVENTER ASSEMBLY, REDUCED PRESSURE ZONE
2	2	UNIONS - GALV.
3	2	NIPPLES - BRASS
4	2	ELBOWS - GALV. 90°
5	2	RISER - GALV.
6	*	CONCRETE SLAB
7	2	BALL VALVES - BRASS OR S.S. (PROVIDED WITH BFP ASS'Y)

NOTE: - FIELD ADJUST AND CUT ITEM 5 TO THE PROPER LENGTH.
 - MINIMUM CLEARANCE OF 24" TO BE MAINTAINED AROUND DEVICE FOR TESTING.
 - ENTIRE ASSEMBLY TO BE PAINTED SAFETY BLUE.
 - CONCRETE SLAB TO EXTEND 12" MIN. AROUND ENTIRE DEVICE.
 - DEVICE MUST BE LISTED WITH THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH.



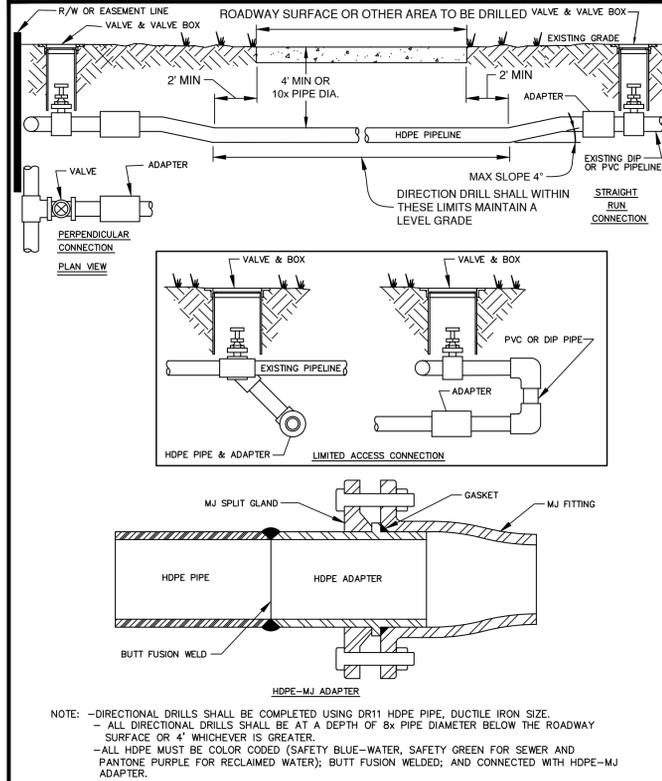
CREATED 02/24/03 VALVE BOX DETAIL
 REVISED _____ SLIP TYPE
 PASCO COUNTY UTILITIES DETAIL 30



NOTES:
 - MECHANICAL JOINTS/UNDERGROUND PIPING SHALL BE RESTRAINED AS SPECIFIED IN JOINT RESTRAINT TABLE (DETAIL 46)
 - VALVE EXTENSION ROD SHALL BE UTILIZED, AS NECESSARY, SO THAT VALVE OPERATING NUT IS A MAXIMUM OF 3' BELOW GRADE.

CREATED 02/24/03 PERMANENT
 REVISED _____ BLOW-OFF DETAIL
 PASCO COUNTY UTILITIES DETAIL 28

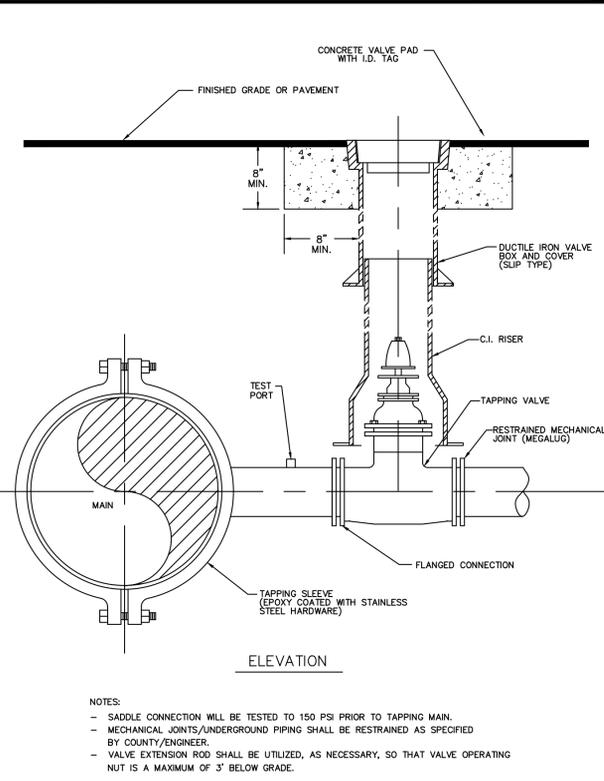
CREATED 02/24/03 FIRE HYDRANT
 REVISED _____ PERPENDICULAR TO THE MAIN
 PASCO COUNTY UTILITIES DETAIL 27



NOTE: - DIRECTIONAL DRILLS SHALL BE COMPLETED USING DR11 HDPE PIPE, DUCTILE IRON SIZE.
 - ALL DIRECTIONAL DRILLS SHALL BE AT A DEPTH OF 8x PIPE DIAMETER BELOW THE ROADWAY SURFACE OR 4' WHICHEVER IS GREATER.
 - ALL HDPE MUST BE COLOR CODED (SAFETY BLUE-WATER, SAFETY GREEN FOR SEWER AND PANTONE PURPLE FOR RECLAIMED WATER); BUTT FUSION WELDED; AND CONNECTED WITH HDPE-MJ ADAPTER.

CREATED 03/06/03 DIRECTIONAL DRILLING
 REVISED _____
 PASCO COUNTY UTILITIES DETAIL 34

CREATED 02/24/03 REDUCED PRESSURE
 REVISED _____ BACKFLOW PREVENTER
 (SINGLE SERVICE: 3/4", 1", 1-1/2", 2")
 PASCO COUNTY UTILITIES DETAIL 12



NOTE: - SADDLE CONNECTION WILL BE TESTED TO 150 PSI PRIOR TO TAPPING MAIN.
 - MECHANICAL JOINTS/UNDERGROUND PIPING SHALL BE RESTRAINED AS SPECIFIED BY COUNTY/ENGINEER.
 - VALVE EXTENSION ROD SHALL BE UTILIZED, AS NECESSARY, SO THAT VALVE OPERATING NUT IS A MAXIMUM OF 3' BELOW GRADE.

CREATED 02/24/03 WATER, REUSE, AND FORCE MAIN
 REVISED _____ TAPPING DETAIL W/ VALVE LOCATION
 PASCO COUNTY UTILITIES DETAIL 37

CREATED 02/24/03 VALVE BOX DETAIL
 REVISED _____ SLIP TYPE
 PASCO COUNTY UTILITIES DETAIL 30

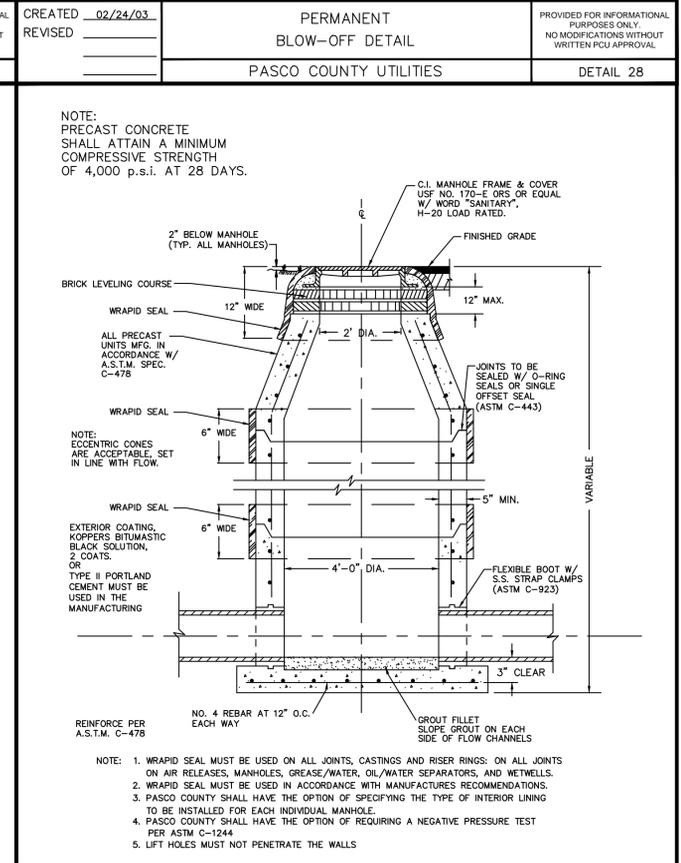
**PIPE RESTRAINT LENGTHS IN FEET
COMMON FITTINGS**

WATER MAINS - TEST PRESSURE 150 PSI					
PIPE SIZE	FITTING TYPE				
	11-1/4°	22-1/2°	45°	90°	DEAD END
4"	2'	4'	8'	20'	45'
6"	3'	6'	12'	28'	63'
8"	4'	7'	15'	36'	82'
10"	4'	9'	18'	43'	98'
12"	5'	10'	21'	50'	116'
16"	6'	13'	26'	63'	148'
20"	7'	15'	31'	76'	179'
24"	9'	17'	36'	87'	208'

FORCE MAINS - TEST PRESSURE 100 PSI					
PIPE SIZE	FITTING TYPE				
	11-1/4°	22-1/2°	45°	90°	DEAD END
4"	1'	3'	6'	13'	30'
6"	2'	4'	8'	19'	42'
8"	2'	5'	10'	24'	55'
10"	3'	6'	12'	29'	66'
12"	3'	7'	14'	34'	77'
16"	4'	8'	18'	42'	99'
20"	5'	10'	21'	50'	119'
24"	6'	11'	24'	58'	139'

RESTRAINT LENGTHS ARE MEASURED FROM THE CENTER LINE OF THE FITTING ALONG THE PIPE IN BOTH DIRECTIONS (EXCEPT DEAD ENDS).

CREATED 02/24/03 RESTRAINED JOINT TABLE
 REVISED _____ COMMON FITTINGS
 PASCO COUNTY UTILITIES DETAIL 31



NOTE: 1. WRAP SEAL MUST BE USED ON ALL JOINTS, CASTINGS AND RISER RINGS; ON ALL JOINTS ON AIR RELEASES, MANHOLES, GREASE/WATER, OIL/WATER SEPARATORS, AND WETWELLS.
 2. WRAP SEAL MUST BE USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 3. PASCO COUNTY SHALL HAVE THE OPTION OF SPECIFYING THE TYPE OF INTERIOR LINING TO BE INSTALLED FOR EACH INDIVIDUAL MANHOLE.
 4. PASCO COUNTY SHALL HAVE THE OPTION OF REQUIRING A NEGATIVE PRESSURE TEST PER ASTM C-1244
 5. LIFT HOLES MUST NOT PENETRATE THE WALLS

CREATED 02/24/03 STANDARD MANHOLE
 REVISED _____
 PASCO COUNTY UTILITIES DETAIL 41

ISSUED	REVISIONS	COMMENT

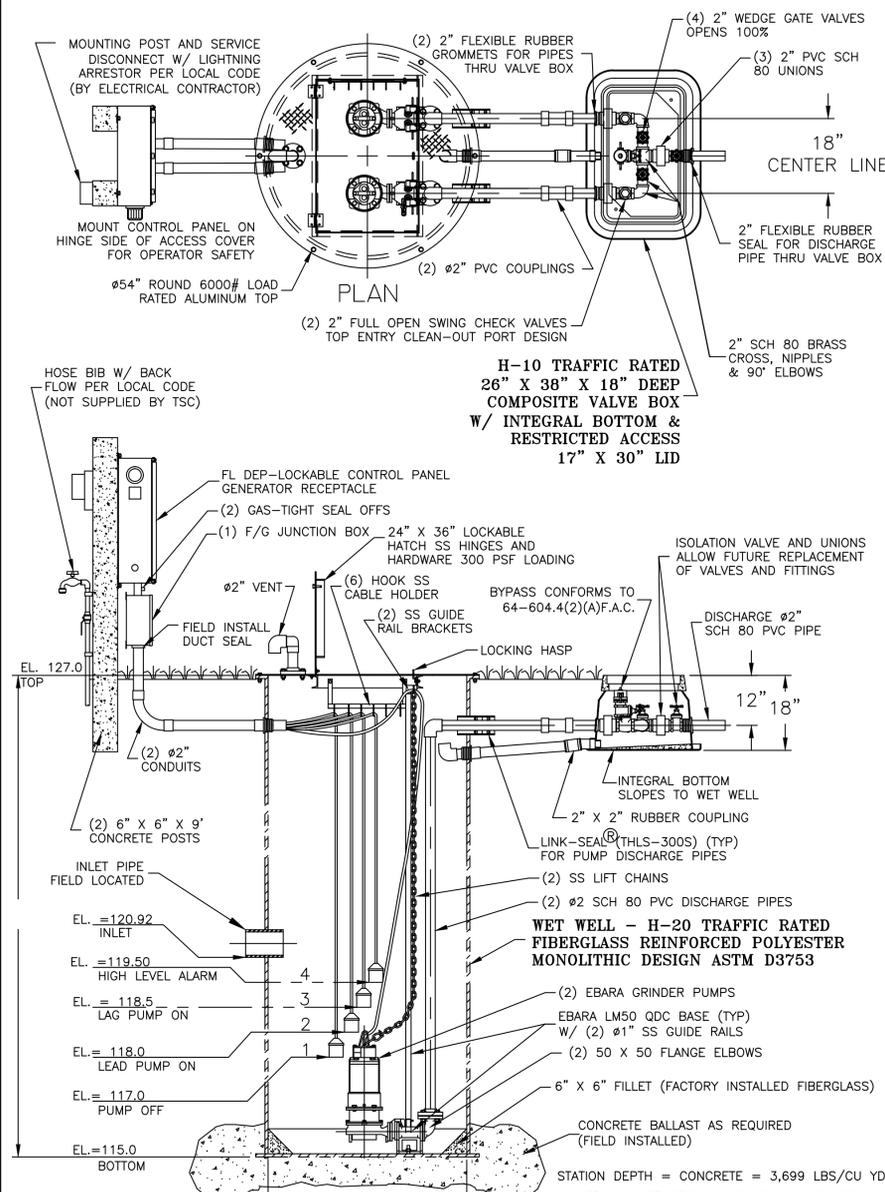
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UTILITY DETAILS
 PHASE 1
**FIRST BAPTIST CHURCH
 OF DADE CITY**
 37511 CHURCH AVENUE
 DADE CITY, FL 33525
 (352) 567-3265



STATION DEPTH = CONCRETE = 3,699 LBS/CU YD
 4 FT X 6 FT REQ. 4,698 LBS = 1.27 YDS
 4 FT X 8 FT REQ. 6,264 LBS = 1.69 YDS
 4 FT X 10 FT REQ. 7,830 LBS = 2.12 YDS
 4 FT X 12 FT REQ. 9,397 LBS = 2.54 YDS
 4 FT X 16 FT REQ. 12,580 LBS = 3.40 YDS
 4 FT X 20 FT REQ. 15,725 LBS = 4.25 YDS

**EBARA SEWAGE GRINDER PUMP
 48" DUPLEX STATION - 2" PIPING
 WITH SLIDE RAIL SYSTEM, V.B. AND F.D.E.P. PANEL
 TSC PRE-FAB PUMP SOLUTIONS®**

MODEL TSC2-48.0 R4.dwg © REV 2005
 JOB: _____
 FIELD INSTALL BY CONTRACTOR _____
 QS: _____

GENERAL NOTES

FURNISH AND INSTALL EBARA SUBMERSIBLE GRINDER PUMPS:

DESIGN CONDITION:

MODEL	50 DGF	3, 5 HP	HP
GPM	85	100	FT/TDH
VOLTAGE	208 / 230 / 460	SINGLE / THREE	PHASE
DISCHARGE	2"	FULL	IMPELLER

SEWAGE GRINDER PUMP: RATED FOR TWENTY (20) STARTS PER HOUR.

- AIR FILLED MOTOR DESIGNED FOR SEWAGE APPLICATION WITH CLASS F INSULATION.
- DUAL MECHANICAL SHAFT SEALS (SILICON CARBIDE / SILICON CARBIDE) LOCATED OUT OF THE PUMPAGE, IN A SEPARATE OIL FILLED CHAMBER.
- HIGH TEMPERATURE BALL BEARINGS B-10 RATING OF 60,000 HOURS, UPPER BEARING - SINGLE ROW AND LOWER BEARINGS - DOUBLE ROW TYPE.
- PUMP SHAFT HORSEPOWER (BHP) SHALL NOT EXCEED MOTOR RATED HORSEPOWER THROUGHOUT THE ENTIRE OPERATING RANGE OF THE PUMP PERFORMANCE CURVE.
- SINGLE PHASE MOTORS SHALL BE DUAL WOUND, CAPACITOR START-RUN AND CAPABLE OF OPERATING ON 208/230 VOLT WITH A 10% TOLERANCE VOLTAGE (190 TO 260). THREE PHASE MOTORS SHALL BE DUAL WOUND AND CAPABLE OF OPERATING ON 208/230 VOLT WITH A 10% TOLERANCE VOLTAGE (190 TO 260) OR OPERATE ON 460 VOLT BY CHANGING THE MOTOR LEADS INSIDE THE PUMP.

FIBERGLASS WET WELL: SHALL BE A ONE PIECE UNIT WITH INTEGRAL BOTTOM, WALL AND UPPER FLANGE. THE ENTIRE FIBERGLASS WET WELL SHALL HAVE A DYNAMIC LOAD RATING OF 16,000 FT/LBS. EACH UNIT MUST BE SERIAL NUMBERED TO IDENTIFY THE TEST PROCEDURE. ASTM D 3753 & H-20 SPECIFICATIONS SHALL BE REQUIRED AS MINIMUM.

ALUMINUM HATCH: TSC MODEL-54R (54") ROUND WITH 24" X 36" LOCKABLE HATCH, REINFORCED FOR LOAD RATING OF 300 LBS/FT WITH HOLD OPEN SAFETY ARM, LOCKING DEVICE FOR HASP TYPE PADLOCK AND STAINLESS STEEL HARDWARE.

VALVE BOX: FIBERGLASS COMPOSITE (H-10 TRAFFIC RATED) WITH INTEGRAL BOTTOM. (FOR 1 1/4" AND 2" DISCHARGE PIPING SXS HEADER SYSTEM) SHALL BE 26" X 38" X 18" WITH 17" X 30" LIMITED ACCESS LID

ACCESSORIES: #304 S/S - GUIDE RAILS, UPPER GUIDE RAIL BRACKETS, CABLE HOLDER, ANCHOR BOLTS AND PUMP LIFTING CHAINS.

VALVES: SHALL BE SEWAGE SERVICE DESIGN BRASS SWING CHECK VALVES WITH TOP ENTRY CLEAN-OUT PORT AND BRASS WEDGE GATE VALVES OPEN 100%.

PIPING: 2" SCHEDULE 80 PVC.

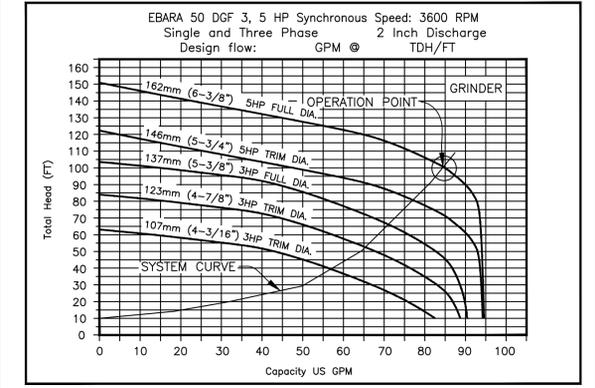
FLOAT SWITCHES: UL LISTED SJ ELECTRO MODEL (SJ 30 SWENO).

PUMP SUPPLIER SHALL PROVIDE SUBMERSIBLE PUMPS, SLIDE RAIL ASSEMBLIES, CONTROL PANEL, JUNCTION BOX, FLOAT SWITCHES, ALUMINUM HATCH AND ACCESSORIES TO INSURE PROPER OPERATION AND WARRANTY.

THE COMPLETE PACKAGE PUMPING STATION SHALL HAVE PUMP BASES, SLIDE RAIL ASSEMBLIES AND DISCHARGE PIPING ASSEMBLED BY TECHNICAL SALES CORPORATION READY TO SHIP FOR FIELD INSTALLATION. THE MANUFACTURER OF PRE-FAB PUMP SOLUTIONS®.

TECHNICAL SALES CORPORATION, 4621 N. HALE AVE TAMPA, FL 33614 (813)876-9256

Ebara Submersible Pumps



PUMP PERFORMANCE CURVE

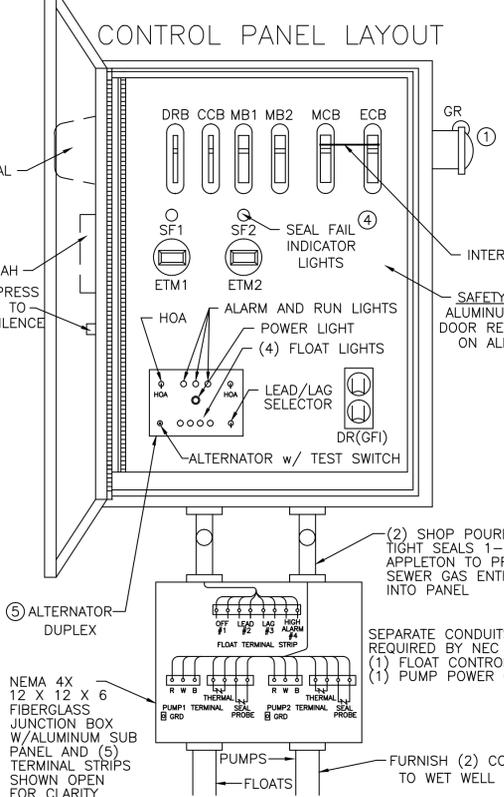
CONTROL PANEL -SHALL CONFORM TO FL DEP 64-604.42(A)
 CONTROL PANEL SHALL BE TSC MODEL # 38-D IN NEMA 4X FIBERGLASS ENCLOSURE. THE PANEL SHALL MEET STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP), ENVIRONMENTAL PROTECTION COMMISSION (EPC) AND LOCAL CODE REQUIREMENTS GOVERNING PRIVATE LIFT STATIONS.

FLOAT SWITCHES AND CONTROL SYSTEM SHALL BE UL LISTED AND INTRINSICALLY SAFE. ALL COMPONENTS SHALL BE UL LISTED.

A JUNCTION BOX IS REQUIRED, WITH SHOP POURED SEALS BETWEEN BOX AND CONTROL PANEL TO PREVENT SEWER GAS ENTRY INTO CONTROL PANEL.

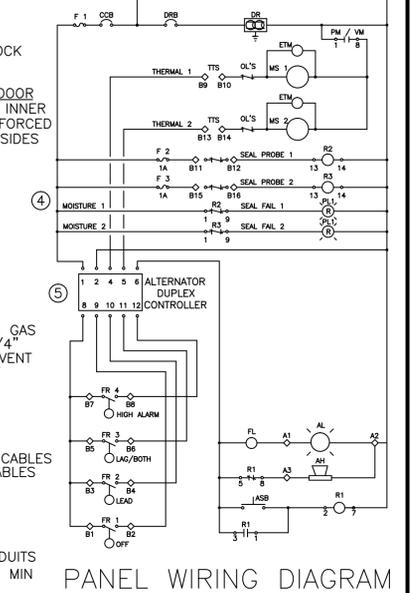
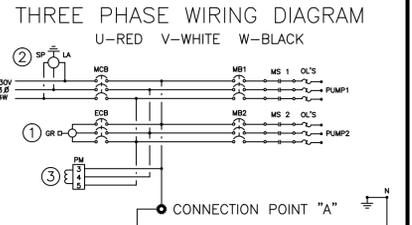
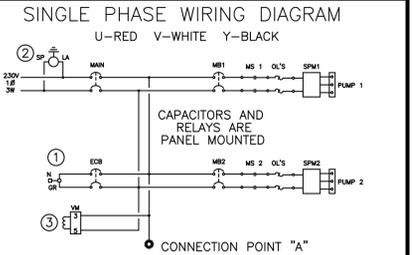
ELECTRICAL CONTRACTOR TO PROVIDE SERVICE DISCONNECT WITH LIGHTNING ARRESTOR MOUNTED PER LOCAL CODES.

THE CONTROL PANEL SHALL BE SUITABLY INSTALLED TO PREVENT SETTLING OR TIPPING.



LEGEND

- AH ALARM HORN
- AL ALARM LIGHT
- ASB ALARM SILENCE BUTTON
- ATS ALTERNATOR W/ TEST SWITCH
- CCB CONTROL CIRCUIT BREAKER
- DR DUPLEX RECEPTACLE
- DRB DUPLEX RECEPTACLE BREAKER
- ECB EMERGENCY CIRCUIT BREAKER
- ETM ELAPSED TIME METER
- F FUSE
- FL FLASHER
- FS FLOAT SWITCH (REGULATOR)
- GRD GENERATOR RECEPTACLE
- GRD GROUND
- HOA HAND-OFF-AUTOMATIC SELECTOR
- LA LIGHTNING ARRESTOR
- MB MOTOR BREAKER
- MCB MAIN CIRCUIT BREAKER
- MS MOTOR STARTER
- N NEUTRAL
- OL'S OVERLOAD HEATERS
- PM PHASE MONITOR
- PTS PUMP TERMINAL STRIP
- R RELAY
- RC RUN CAPACITOR
- RD DISCHARGE RESISTOR
- RL PUMP RUN INDICATORS
- RTS REGULATOR TERMINAL STRIP
- SC START CAPACITOR
- SF SEAL FAIL (SHAFT)
- SR START RELAY
- SP SURGE PROTECTOR
- TTS THERMAL TERMINAL STRIP



PANELS SHALL CONFORM TO FLORIDA DEP 64-604.400

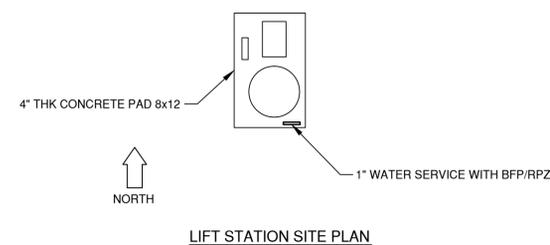
- GENERATOR RECEPTACLE FOR EMERGENCY POWER CONNECTION WITH INTERLOCK
- SURGE PROTECTION AND LIGHTNING PROTECTION ON ALL INCOMING LEGS
- PHASE PROTECTION SHALL BE PROVIDED
- SHAFT SEAL FAIL DETECTION
- ALTERNATOR w/ TEST SWITCH

PANEL MANUFACTURER SHALL BE A "UL" LISTED SHOP.

TECHNICAL SALES CORPORATION
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 REV-3 07/04 SCALE: N.T.S.



LIFT STATION SITE PLAN

48" DUPLEX GRINDER STATION-2" PIPING W/ SLIDE RAIL SYSTEM, VALVE BOX AND F.D.E.P. PANEL TSCE2-48.0 R3©

REVISIONS	COMMENT
ISSUED	

SCOTT K. STANNARD, P.E.
 FL PE NO. 50565

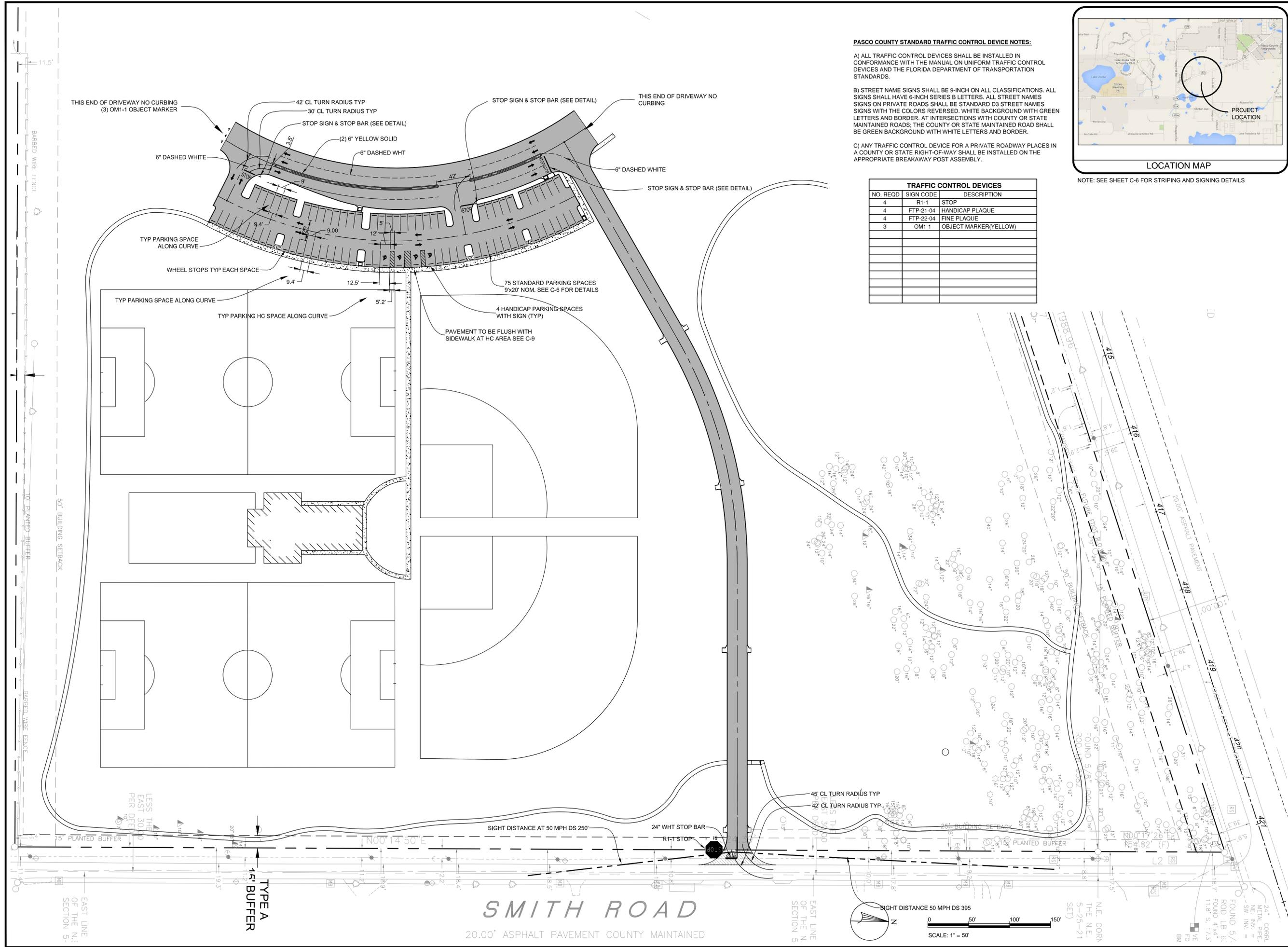
CSS
 C.O.A. # 27575
 21764 State Road 54
 Lutz, FL 33549
 (813) 885-2052
 www.css-eng.com

PREPARED FOR:
FIRST BAPTIST CHURCH OF DADE CITY
 537511 CHURCH AVENUE
 DADE CITY, FL 33525
 PH: (352) 567-3265

LIFT STATION DETAILS PHASE 1
FIRST BAPTIST CHURCH OF DADE CITY
 37511 CHURCH AVENUE
 DADE CITY, FL 33525
 (352) 567-3265

Date:	11-24-14
Drawn:	LAB
Checked:	SKS

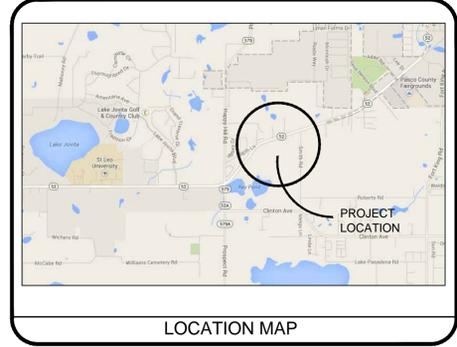
C-13A



PASCO COUNTY STANDARD TRAFFIC CONTROL DEVICE NOTES:

- A) ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.
- B) STREET NAME SIGNS SHALL BE 9-INCH ON ALL CLASSIFICATIONS. ALL SIGNS SHALL HAVE 6-INCH SERIES B LETTERS. ALL STREET NAMES SIGNS ON PRIVATE ROADS SHALL BE STANDARD D3 STREET NAMES SIGNS WITH THE COLORS REVERSED. WHITE BACKGROUND WITH GREEN LETTERS AND BORDER. AT INTERSECTIONS WITH COUNTY OR STATE MAINTAINED ROADS, THE COUNTY OR STATE MAINTAINED ROAD SHALL BE GREEN BACKGROUND WITH WHITE LETTERS AND BORDER.
- C) ANY TRAFFIC CONTROL DEVICE FOR A PRIVATE ROADWAY PLACES IN A COUNTY OR STATE RIGHT-OF-WAY SHALL BE INSTALLED ON THE APPROPRIATE BREAKAWAY POST ASSEMBLY.

NO. REQD	SIGN CODE	DESCRIPTION
4	R1-1	STOP
4	FTP-21-04	HANDICAP PLAQUE
4	FTP-22-04	FINE PLAQUE
3	OM1-1	OBJECT MARKER(YELLOW)



NOTE: SEE SHEET C-6 FOR STRIPING AND SIGNING DETAILS

ISSUED	REVISIONS	COMMENT

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SIGNING AND MARKING PLAN PHASE 1
FIRST BAPTIST CHURCH OF DADE CITY
37511 CHURCH AVENUE
DADE CITY, FL 33525
(352) 567-3265

Date: 11-24-14
Drawn: LAB
Checked: SKS
C-14

GENERAL LANDSCAPE NOTES

- LANDSCAPE CONTRACTOR SHALL REVIEW ARCHITECTURAL/ENGINEERING DRAWINGS AND BECOME THOROUGHLY FAMILIAR WITH ALL SURFACE AND SUBSURFACE UTILITIES.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE THE PLANTING WITH THE IRRIGATION WORK TO ASSURE AVAILABILITY AND PROPER LOCATION OF IRRIGATION ITEMS AND PLANTS.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND ALL WORK AS CALLED FOR ON THE LANDSCAPE PLANS AND IN THE LANDSCAPE SPECIFICATIONS. IN THE EVENT OF VARIATION BETWEEN QUANTITIES SHOWN ON PLANT LIST AND THE PLANS, THE PLANS SHALL CONTROL. LANDSCAPE CONTRACTOR SHALL VERIFY ALL QUANTITIES AND REPORT ANY DISCREPANCIES AT THE TIME OF BIDDING.
- EXCEPT AS OTHERWISE SPECIFIED THE REQUIRED LANDSCAPING SHALL BE INSTALLED ACCORDING TO ACCEPTED COMMERCIAL PLANTING PROCEDURES AS SET FORTH IN "GRADES AND STANDARDS FOR NURSERY PLANTS, STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE, 1998", AND ANY AMENDMENTS THERETO.
- EVERY POSSIBLE SAFEGUARD SHALL BE TAKEN TO PROTECT BUILDING SURFACES, EQUIPMENT AND FURNISHINGS. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR INJURY TO PERSON OR PROPERTY WHICH MAY OCCUR AS A RESULT OF NEGLIGENCE IN THE EXECUTION OF THE WORK.
- ALL PLANTING SHALL BE PERFORMED BY PERSONS FAMILIAR WITH PLANTING PROCEDURE AND UNDER THE SUPERVISION OF A QUALIFIED FOREMAN.
- ALL PLANT MATERIAL SHALL EQUAL OR EXCEED THE STANDARDS FOR FLORIDA NO. 1 AS DEFINED IN THE MOST CURRENT EDITION OF THE GRADES AND STANDARDS FOR NURSERY PLANTS, PART I AND II, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, AND ANY AMENDMENTS THERETO. GRASS SOD SHALL BE CLEAN AND REASONABLY FREE OF WEEDS AND NOXIOUS PESTS OR DISEASES.
- THE MINIMUM ACCEPTABLE SIZE OF ALL PLANTS, MEASURED AFTER PRUNING WITH BRANCHES IN NORMAL POSITIONS SHALL CONFORM TO THE MEASUREMENTS SPECIFIED ON THE PLANT LIST OR AS INDICATED ON THE LANDSCAPE PLAN. HEIGHT AND SPREAD DIMENSIONS REFER TO THE MAIN BODY OF THE PLANT AND NOT EXTREME BRANCH TIP TO TIP. TRUNK DIAMETER SHALL BE MEASURED 6" ABOVE THE ROOT BALL FOR TREES UP TO 4" CALIPER AND 12" FROM ROOT BALL FOR LARGER TREES.
- THE PROJECT LANDSCAPE ARCHITECT OR OWNER SHALL HAVE THE RIGHT, AT ANY STAGE OF THE OPERATIONS, TO REJECT ANY AND ALL WORK AND MATERIALS WHICH, IN HIS/HER OPINION, DO NOT MEET WITH THE REQUIREMENTS OF THESE SPECIFICATIONS.
- PLANTS SHALL BE PROTECTED UPON ARRIVAL AT THE SITE BY BEING THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. NO PLANTS OR PLANTING MATERIAL SHALL BE STORED IN STREET RIGHT-OF-WAY.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER WATERING OF ALL PLANTS. ALL PLANTS SHALL BE THOROUGHLY WATERED AT TIME OF PLANTING AND KEPT ADEQUATELY WATERED UNTIL TIME OF ACCEPTANCE. IT SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT PLANTS ARE NOT OVER WATERED.
- IT SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO PREVENT PLANTS FROM FALLING OR BEING BLOWN OVER, TO STRAIGHTEN AND REPLANT ALL PLANTS WHICH LEAN OR FALL AND TO REPLACE ALL PLANTS WHICH ARE DAMAGED DUE TO LACK OF PROPER GUYING OR STAKING. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY INSTABILITY OF ANY PLANT MATERIAL.
- ALL TREES AND PALMS SHALL BE GUYED, STAKED OR BRACED. LANDSCAPE CONTRACTOR SHALL DETERMINE WHICH SMALL OR MULTI-STEM TREES AND SHRUBS NEED TO BE GUYED AND STAKED TO MAINTAIN PLUMB. STAKING OF TREE AND SHRUBS, IF REQUIRED, SHALL BE DONE AS PER STAKING AND GUYING DETAIL PREPARED BY THE LANDSCAPE ARCHITECT. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL GUYS AND STAKES FROM THE TREES AND JOB SITE AFTER A PERIOD OF 1 YEAR.
- PLANTS BLOWN OVER BY HIGH WINDS, WITHIN THE GUARANTEED PERIOD, SHALL NOT BE CAUSE FOR ADDITIONAL EXPENSE TO THE OWNER, BUT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. DAMAGED PLANTS SHALL BE REPLACED BY THE LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- LANDSCAPE CONTRACTOR SHALL PRUNE, SHAPE AND REMOVE DEAD FOLIAGE/LIMBS FROM EXISTING PLANT MATERIAL TO REMAIN. CONFIRM WITH THE LANDSCAPE ARCHITECT OR OWNER THE EXTENT OF WORK REQUIRED AT TIME OF BIDDING.
- SOD SHALL BE CERTIFIED TO BE FREE OF THE IMPORTED FIRE ANT. SOD SHALL HAVE A CLEAN GROWTH OF ACCEPTABLE GRASS, REASONABLY FREE OF WEEDS WITH NOT LESS THAN 1-1/2" OF SOIL FIRMLY ADHERING TO ROOTS. IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO MEASURE AND DETECT THE EXACT AMOUNT REQUIRED. THIS AMOUNT SHALL BE VERIFIED WITH THE OWNER OR LANDSCAPE ARCHITECT BEFORE INSTALLATION.
- ALL PLANT BEDS SHALL BE TOP DRESSED WITH A MAXIMUM OF 3" SETTLED SHREDDED ORGANIC MULCH. ALL TREES ARE TO BE MULCHED.
- LANDSCAPE CONTRACTOR SHALL ENSURE THAT HIS/HER WORK DOES NOT INTERRUPT ESTABLISHED OR PROJECTED DRAINAGE PATTERNS.
- LANDSCAPE CONTRACTOR SHALL ENSURE ADEQUATE VERTICAL DRAINAGE IN ALL PLANT BEDS, PLANTERS AND SOD AREAS. VERTICAL DRILLING THROUGH ANY COMPACTED FILL TO NATIVE SOIL SHALL BE ACCOMPLISHED TO ENSURE ADEQUATE DRAINAGE. IF WELL DRAINED FILL IS NECESSARY TO ENSURE POSITIVE DRAINAGE, THIS ISSUE SHALL BE BROUGHT UP BY THE LANDSCAPE CONTRACTOR AT TIME OF BIDDING.
- ALL TREE PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USDA STANDARD FOR NURSERY STOCK Z60.1, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACKFILLED WITH THE SPECIFIED PLANTING SOIL. LANDSCAPE CONTRACTOR SHALL TEST FILL ALL TREE PITS WITH WATER BEFORE PLANTING TO ENSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND EVALUATING WHICH PLANT MATERIALS ARE SUITABLE FOR TRANSPLANTING AND SHALL VERIFY THIS WITH THE LANDSCAPE ARCHITECT OR OWNER. LANDSCAPE CONTRACTOR SHALL TAKE ALL REASONABLE AND ACCEPTABLE HORTICULTURAL MEASURES TO ENSURE THE SUCCESSFUL TRANSPLANTING OF DETERMINED PLANT MATERIALS. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY RELOCATED PLANT MATERIALS WHICH DIE IF SUCH MEASURES ARE NOT TAKEN, AS DETERMINED BY THE LANDSCAPE ARCHITECT OR OWNER. REPLACEMENT PLANTS SHALL BE OF IDENTICAL SPECIES AND SIZE IF REQUIRED.
- MAINTENANCE SHALL COMMENCE AFTER EACH PLANT IS PLANTED AND THE MAINTENANCE PERIOD SHALL CONTINUE UNTIL THE JOB OR SPECIFIC PHASE OF THE JOB IS ACCEPTED BY THE LANDSCAPE ARCHITECT OR OWNER. EXTREME CARE SHALL BE TAKEN TO INSTRUCT THE OWNER OR OWNER REPRESENTATIVES IN GENERAL MAINTENANCE PROCEDURES.
- PLANT MAINTENANCE SHALL INCLUDE WATERING, PRUNING WEEDING, CULTIVATING, MULCHING, TIGHTENING AND REPAIRING OF GUYS, REPLACEMENT OF SICK OR DEAD PLANTS, RESETTling PLANTS TO PROPER GRADES OR UPRIGHT POSITIONS AND RESTORATION OF THE PLANTING SAUCER AND ALL OTHER CARE NEEDED FOR PROPER GROWTH OF THE PLANTS.
- DURING THE MAINTENANCE PERIOD AND UP TO THE DATE OF FINAL ACCEPTANCE, THE LANDSCAPE CONTRACTOR SHALL PERFORM ALL SEASONAL SPRAYING AND/OR DUSTING OF TREES AND SHRUBS. UPON COMPLETION OF ALL PLANTING, AN INSPECTION FOR ACCEPTANCE OF WORK WILL BE HELD. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OR OWNER FOR SCHEDULING THE INSPECTION 10 DAYS PRIOR TO THE ANTICIPATED DATE. AT THE TIME OF THE INSPECTION, IF ALL THE MATERIALS ARE ACCEPTABLE, A WRITTEN NOTICE WILL BE GIVEN BY THE LANDSCAPE ARCHITECT OR OWNER TO THE LANDSCAPE CONTRACTOR STATING THE DATE WHEN THE MAINTENANCE PERIOD ENDS.
- ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE (1) YEAR FROM THE TIME OF FINAL INSPECTION AND PLANT MATERIAL SHALL BE ALIVE AND IN SATISFACTORY GROWTH FOR EACH SPECIFIC KIND OF PLANT AT THE END OF THE GUARANTEE PERIOD.
- AT THE END OF THE GUARANTEE PERIOD, ANY PLANT REQUIRED UNDER THIS CONTRACT WHICH IS DEAD OR NOT IN SATISFACTORY GROWTH, AS DETERMINED BY THE OWNER OR LANDSCAPE ARCHITECT, SHALL BE REMOVED AND REPLACED. REPLACEMENT PLANTS SHALL HAVE AN EXTENDED GUARANTEE, AS NOTED ABOVE, FROM TIME OF REPLACEMENT. ALL REPLACEMENTS SHALL BE PLANTED OF THE SAME KIND AND SIZE AS SPECIFIED ON THE PLANT LIST AND SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
- TOPSOIL SHALL BE ASTM 5208 NATURAL, FRIABLE, FERTILE, FINE LOAMY SOIL POSSESSING CHARACTERISTICS OF REPRESENTATIVE TOPSOIL IN THE VICINITY THAT PRODUCES HEAVY GROWTH. TOPSOIL SHALL HAVE A pH RANGE OF 5.5 TO 7.4 PERCENT, FREE FROM SUBSOIL, OBJECTIONABLE WEEDS, LITTER, SODS, STIFF CLAY, STONES LARGER THAN 1 INCH IN DIAMETER, STUMPS, ROOTS, TRASH, TOXIC SUBSTANCES, OR ANY OTHER MATERIAL WHICH MAY BE HARMFUL TO PLANT GROWTH OR HINDER PLANTING OPERATIONS. TOP SOIL SHALL CONTAIN A MINIMUM OF THREE PERCENT ORGANIC MATERIAL.

MASTER PLANT LIST

SYMB.	No.	SCIENTIFIC NAME	COMMON NAME	SIZE REQUIREMENTS	NATIVE FLORIDA	DROUGHT TOLERANT	SPACING	REPLACEMENT CAL. INCHES
Ar	13	<i>Acer rubrum</i>	RED MAPLE	2" CAL. MIN. - 10' MIN. HT.	YES	YES	PER PLAN	26
Cc	8	<i>Cercis canadensis</i>	EASTERN REDBUD	2" CAL. MIN. - 10' MIN. HT.	YES	YES	PER PLAN	16
Li	8	<i>Lagerstroemia indica</i> 'Natchez'	NATCHEZ CRAPE MYRTLE	3" COMBINED CAL. MIN. - 8' MIN. HT. (3 TO 5 STEM)	NO	YES	PER PLAN	24
Mg	4	<i>Magnolia grandiflora</i>	SOUTHERN MAGNOLIA	2" CAL. MIN. - 10' MIN. HT.	YES	YES	PER PLAN	8
Qs	20	<i>Quercus shumardii</i>	SHUMARD OAK	2" CAL. MIN. - 10' MIN. HT.	YES	YES	PER PLAN	40
Qv	5	<i>Quercus virginiana</i>	LIVE OAK	2" CAL. MIN. - 10' MIN. HT.	YES	YES	PER PLAN	10
Ua	6	<i>Ulmus alata</i>	WINGED ELM	2" CAL. MIN. - 10' MIN. HT.	YES	YES	PER PLAN	12
Up	32	<i>Ulmus parvifolia</i> 'Bosque'	BOSQUE ELM	2" CAL. MIN. - 10' MIN. HT.	NO	YES	PER PLAN	64
TOT. 96					PERCENT: 56%	PERCENT: 100%	TOTAL: 200 CAL. INCHES	

SYMB.	No.	SCIENTIFIC NAME	COMMON NAME	SIZE REQUIREMENTS	NATIVE FLORIDA	DROUGHT TOLERANT	SPACING	REPLACEMENT CAL. INCHES
Fs	121	<i>Forestiera segregata</i>	FLORIDA PRIVET	18" MIN. HEIGHT	YES	YES	60" O.C. MAX.	
Hp	23	<i>Hamelia patens</i>	FIREBUSH	18" MIN. HEIGHT	YES	YES	48" O.C. MAX.	
Mc	168	<i>Myrica cerifera</i>	SOUTHERN WAX MYRTLE	18" MIN. HEIGHT	YES	YES	60" O.C. MAX.	
MuC	75	<i>Muhlenbergia capillaris</i>	PINK MUHLY GRASS	18" MIN. HEIGHT	YES	YES	36" O.C. MAX.	
Pa	142	<i>Plumbago auriculata</i>	PLUMBAGO	18" MIN. HEIGHT	YES	YES	48" O.C. MAX.	
					PERCENT: 100%	PERCENT: 100%		

NOTES:

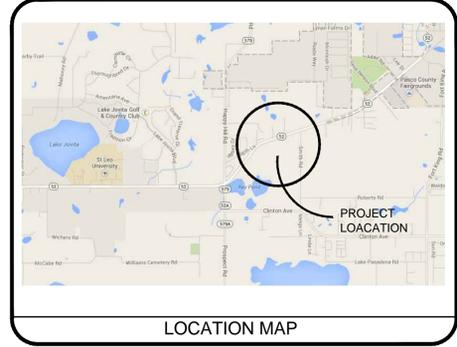
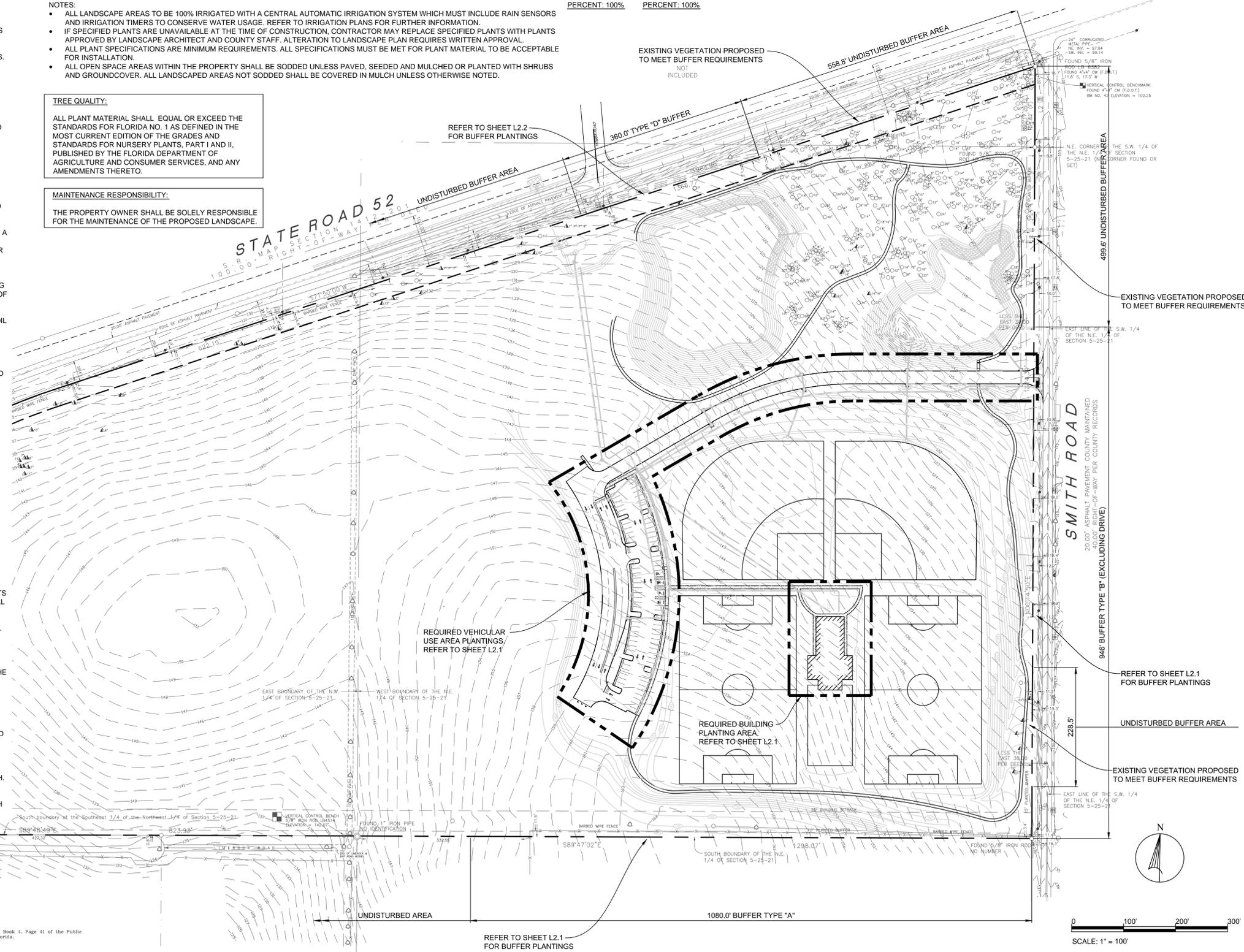
- ALL LANDSCAPE AREAS TO BE 100% IRRIGATED WITH A CENTRAL AUTOMATIC IRRIGATION SYSTEM WHICH MUST INCLUDE RAIN SENSORS AND IRRIGATION TIMERS TO CONSERVE WATER USAGE. REFER TO IRRIGATION PLANS FOR FURTHER INFORMATION.
- IF SPECIFIED PLANTS ARE UNAVAILABLE AT THE TIME OF CONSTRUCTION, CONTRACTOR MAY REPLACE SPECIFIED PLANTS WITH PLANTS APPROVED BY LANDSCAPE ARCHITECT AND COUNTY STAFF. ALTERATION TO LANDSCAPE PLAN REQUIRES WRITTEN APPROVAL.
- ALL PLANT SPECIFICATIONS ARE MINIMUM REQUIREMENTS. ALL SPECIFICATIONS MUST BE MET FOR PLANT MATERIAL TO BE ACCEPTABLE FOR INSTALLATION.
- ALL OPEN SPACE AREAS WITHIN THE PROPERTY SHALL BE SODDED UNLESS PAVED, SEEDED AND MULCHED OR PLANTED WITH SHRUBS AND GROUNDCOVER. ALL LANDSCAPED AREAS NOT SODDED SHALL BE COVERED IN MULCH UNLESS OTHERWISE NOTED.

TREE QUALITY:

ALL PLANT MATERIAL SHALL EQUAL OR EXCEED THE STANDARDS FOR FLORIDA NO. 1 AS DEFINED IN THE MOST CURRENT EDITION OF THE GRADES AND STANDARDS FOR NURSERY PLANTS, PART I AND II, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, AND ANY AMENDMENTS THERETO.

MAINTENANCE RESPONSIBILITY:

THE PROPERTY OWNER SHALL BE SOLELY RESPONSIBLE FOR THE MAINTENANCE OF THE PROPOSED LANDSCAPE.



ISSUED	REVISIONS	COMMENT

TIMOTHY W. LARSON, RLA
FL LIC. NO. LA6667115

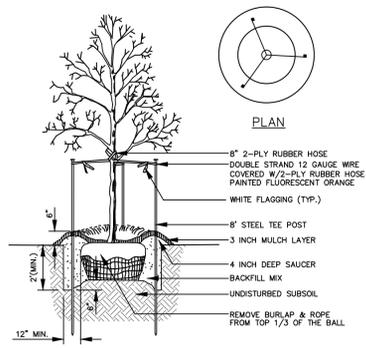
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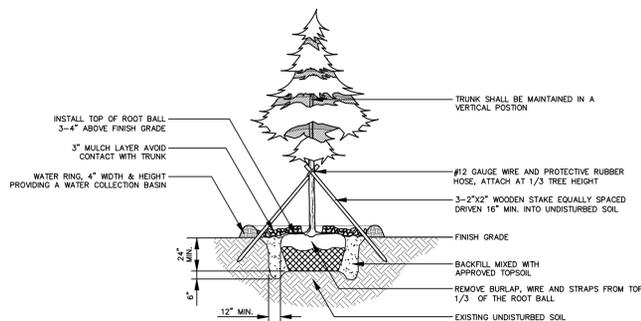
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SUMNER and ALLEN SMALL FARMS, as recorded in Plat. Book 4, Page 41 of the Public Records of Pasco County, Florida.

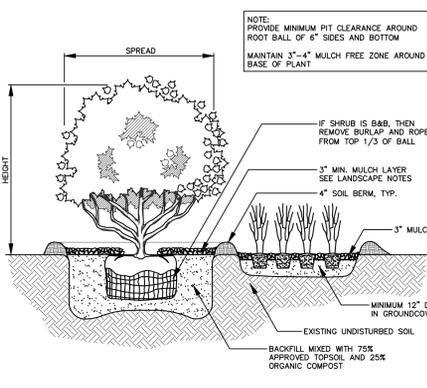


NOTE: SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.

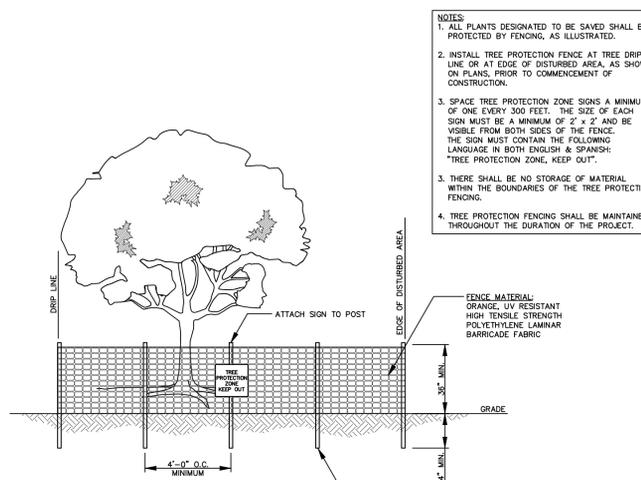
TREE PLANTING DETAIL
N.T.S.



EVERGREEN TREE PLANTING DETAIL
N.T.S.



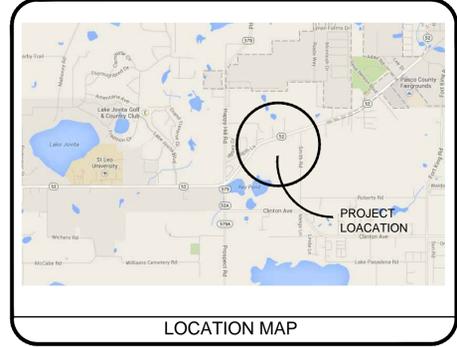
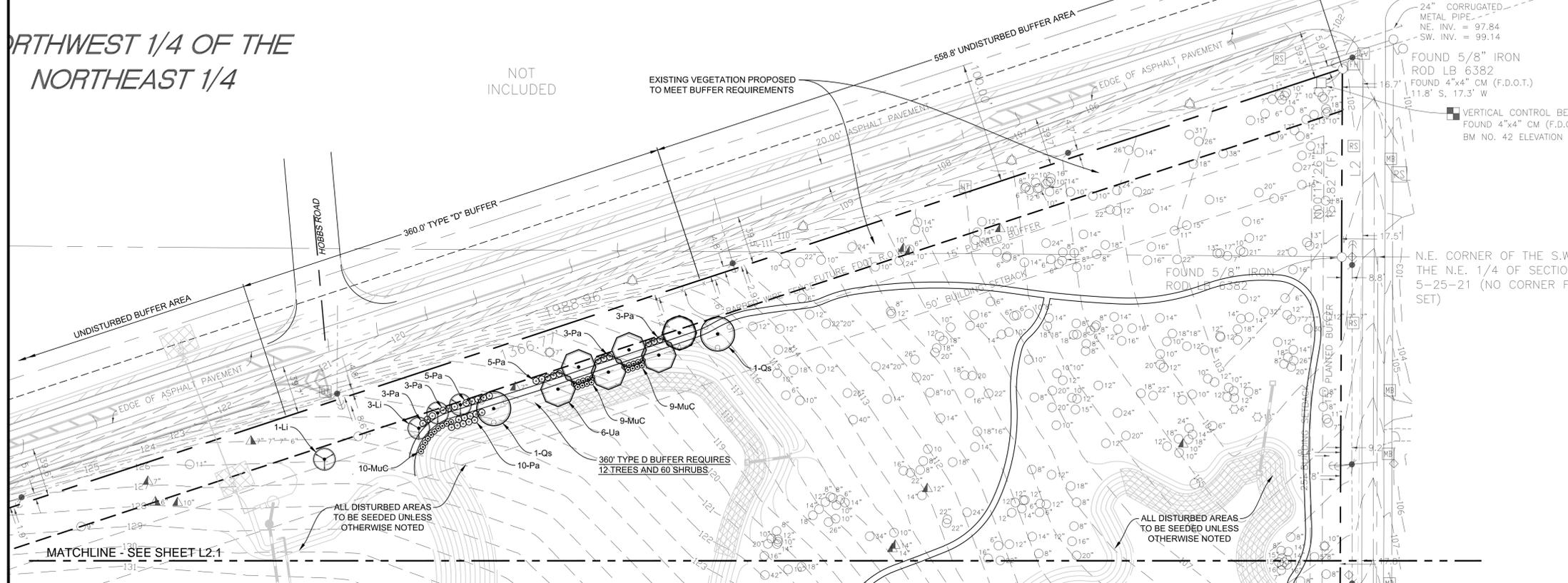
SHRUB & GROUNDCOVER PLANTING DETAIL
N.T.S.



TREE PROTECTION FENCE DETAIL
N.T.S.

- NOTES:**
1. ALL PLANTS DESIGNATED TO BE SAVED SHALL BE PROTECTED BY FENCING, AS ILLUSTRATED.
 2. INSTALL TREE PROTECTION FENCE AT TREE DRIP LINE OR AT EDGE OF DISTURBED AREA, AS SHOWN ON PLANS, PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 3. SPACE TREE PROTECTION ZONE SIGNS A MINIMUM OF ONE EVERY 300 FEET. THE SIZE OF EACH SIGN MUST BE A MINIMUM OF 2' x 2' AND BE VISIBLE FROM BOTH SIDES OF THE FENCE. THE SIGN MUST CONTAIN THE FOLLOWING LANGUAGE IN BOTH ENGLISH & SPANISH: "TREE PROTECTION ZONE, KEEP OUT".
 3. THERE SHALL BE NO STORAGE OF MATERIAL WITHIN THE BOUNDARIES OF THE TREE PROTECTION FENCING.
 4. TREE PROTECTION FENCING SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.

**NORTHWEST 1/4 OF THE
NORTHEAST 1/4**



SITE DATA

TOT. PROPERTY AREA: ±58,784 ACRES
 PHASE I DISTURBED AREA: ±32,92 ACRES
 SR 52 RIGHT-OF-WAY LENGTH: 2,839 LF
 EAST PROPERTY LINE LENGTH: 1,479 LF
 SOUTH PROPERTY LINE LENGTH: 2,645 LF
 ZONING: AC
 ADJACENT PROPERTY ZONING:
 • NORTH: - AR, C-2, R-1
 • EAST: - AR, C-2, R-1
 • SOUTH: - AC
 • WEST: R-2
 FLU: AG/R
 PROPOSED LAND USE: INSTITUTIONAL
 PROPOSED BUILDING AREA: ±8,970 SF
 PROPOSED BUILDING PERIMETER: ±541 LF
 VUA AREA: 72,620 SF

LANDSCAPE REQUIREMENTS AND CALCULATIONS

LANDSCAPE BUFFER REQUIREMENTS:
 BUFFER ALONG SR 52, TYPE 'D' - 15' WIDE MINIMUM, 1 TREE PER 30 LINEAR FEET (20' TO 45' O.C. SPACING) AND 5 SHRUBS PER TREE.
 360 LINEAR FEET @ 1 TREE PER 30 FEET = 12 TREES
 5 SHRUBS PER TREE = 5 x 12 = 60 SHRUBS
 REQUIRED AND PROVIDED

BUFFER ALONG WEST SMITH ROAD, TYPE 'B' - 15' WIDE MINIMUM, 1 TREE PER 60 LINEAR FEET AND 5 SHRUBS SPACED @ 5' O.C.
 946 LINEAR FEET @ 1 TREE PER 60 FEET = 16 TREES
 946 LINEAR FEET @ 1 SHRUB PER 5 FEET = 189 SHRUBS
 REQUIRED AND PROVIDED

BUFFER ALONG SOUTH P.L. TYPE 'A' - 10' WIDE MINIMUM, 1 TREE PER 60 LINEAR FEET WITH CONTINUOUS ROW OF EVERGREEN SHRUBS.
 1080 LINEAR FEET @ 1 TREE PER 60 FEET = 18 TREES
 CONTINUOUS ROW OF EVERGREEN SHRUBS
 REQUIRED AND PROVIDED

INTERNAL LANDSCAPE AREA REQUIREMENTS:
 TOTAL VEHICLE USE AREA = 76,620 SF
 INTERNAL LANDSCAPE AREA REQUIRED = 7,662 SF
 INTERNAL LANDSCAPE AREA PROVIDED = ±30,000 SF

NOTES:

1. LANDSCAPED AREAS ON THE PARKING AREA PERIMETER OR IN THE INTERNAL ISLANDS MUST EQUAL OR EXCEED A MINIMUM OF TEN (10) PERCENT OF THE TOTAL PAVED SURFACE AREA.
2. EACH 8x20' LANDSCAPED ISLAND SHALL PROVIDE A MINIMUM OF ONE (1) SHADE TREE, SHRUBS, AND GROUND COVER.

INTERNAL LANDSCAPE AREA TREE REQUIREMENTS:
 7,662 SF @ 1 TREE PER 200 SF = 39 TREES REQUIRED
 INTERNAL LANDSCAPE TREES PROVIDED = 39 TREES PROVIDED

NOTES:

1. LANDSCAPED AREAS ON THE PARKING AREA PERIMETER OR IN THE INTERNAL ISLANDS MUST EQUAL OR EXCEED A MINIMUM OF TEN (10) PERCENT OF THE TOTAL INTERNAL LANDSCAPE AREA.
2. ONE (1) TREE MUST BE PLANTED OR RETAINED PER 200 SF OF INTERNAL PARKING AREA.
3. NO PARKING SPACE MAY BE MORE THAN 100 FEET FROM A TREE PLANTED IN A PERMEABLE ISLAND, PENINSULA, OR MEDIAN OF AN EIGHT-FOOT MINIMUM WIDTH.

PERIMETER PLANTING AREA CALCULATIONS:
 TOTAL BUILDING AREA = 8,970 SF
 10% PERIMETER PLANTING AREA = 897 SF
 REQUIRED AND PROVIDED

BUILDING LANDSCAPING PER CODE:
 BUILDING PERIMETER LANDSCAPING TO BE PROVIDED: 897 SF (10%)
 BUILDING PERIMETER WITH LANDSCAPING: 271 LF (60%)
 PROVIDED:
 BUILDING PERIMETER LANDSCAPING TO BE PROVIDED: 1,000 SF (11%)
 BUILDING PERIMETER WITH LANDSCAPING: 350 LF (65%)

NATIVE SHRUB AND GROUNDCOVER REQUIREMENTS:
 OVERALL SITE REQUIREMENT: 30% SHRUBS AND GROUNDCOVER ARE REQUIRED TO BE NATIVE

GRASSED AREA
 OVERALL SITE REQUIREMENT: 30% MAX. OF REQUIRED LANDSCAPE AREA MAY BE TURF GRASS.

ISSUED	REVISIONS	COMMENT

TIMOTHY W. LARSON, RLA
 FL LIC. NO. LA6667115

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Date: 11-24-14
 Drawn: LAB
 Checked: SKS
L-2.2

