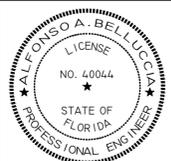


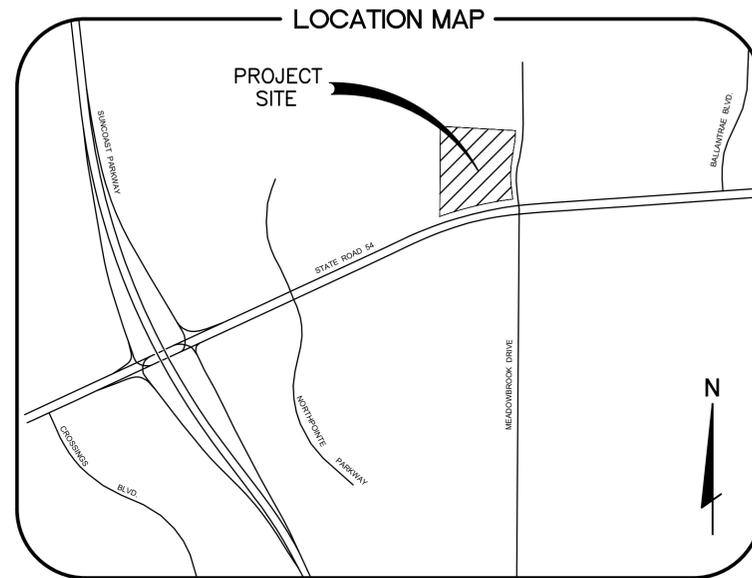
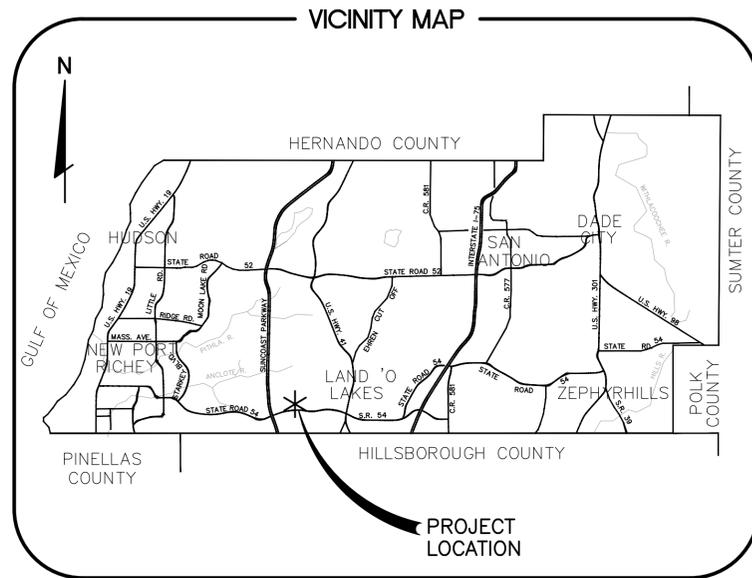
# CYPRESS POINTE PRELIMINARY / CONSTRUCTION / STORMWATER MANAGEMENT PLANS

## INCLUDING MEADOWBROOK DRIVE RIGHT-OF-WAY USE AND STATE ROAD 54 PLANS

### SECTION 29, TOWNSHIP 26 SOUTH, RANGE 18 EAST PASCO COUNTY, FLORIDA



PROJECT NO.	2016-0009
DATE	5/42
ISSUED	7-22-2016
DESIGNED BY	AVS
CHECKED BY	AVS
DATE	AB



#### SUBMITTAL PACKAGES

PASCO CO.	SWFWMD	FDOT	FDEP	Sheet No.
✓	✓	✓	✓	1
✓	✓	✓	✓	2
✓	✓	✓	✓	3
✓	✓	✓	✓	4
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✓	✓	✓	✓	6
✓	✓	✓	✓	7-8
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✓	✓	✓	✓	12-13
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✓	✓	✓	✓	26-33
✓	✓	✓	✓	34-39

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#### LEGAL DESCRIPTION:

A parcel of land lying in Section 29, Township 26 South, Range 18 East, Pasco County, Florida, being more particularly described as follows:

Begin at the Southwest corner of the Northwest 1/4 of said Section 29; thence along the West boundary thereof, North 00 degrees 22'24" East, 943.60 feet to the Southwest corner of Suncoast Pointe Villages 1A and 1B, as recorded in Plat Book 48, Pages 68 through 71, inclusive, of the Public Records of Pasco County, Florida; thence along the Southerly boundary thereof, South 86 degrees 45'45" East, 823.64 feet to a point of intersection with the Westerly boundary of Suncoast Meadows - Increment One, as recorded in Plat Book 48, Pages 36 through 44, inclusive, of the Public Records of Pasco County, Florida, said Westerly boundary also being the Westerly right of way line of Meadowbrook Dr; thence 140.40 feet along said Westerly right of way line and along the arc of a curve to the right, having a radius of 940.00 feet, subtended by a chord distance of 140.27 feet, bearing South 04 degrees 28'56" West; thence South 08 degrees 45'40" West, 195.35 feet; thence 282.85 feet along the arc of a curve to the left, having a radius of 1060.00 feet, subtended by a chord distance of 282.01 feet, bearing South 01 degrees 07'00" West; thence South 06 degrees 38'40" East, 133.73 feet to a point of intersection with the Northerly right of way line of State Road No. 54; thence 821.67 feet along said right of way line and along the arc of a curve to the left, having a radius of 3944.39 feet, subtended by a chord distance of 820.19 feet, bearing South 76 degrees 38'01" West to a point of intersection with the West boundary of the Southwest 1/4 of said Section 29; thence along said West boundary, North 00 degrees 19'49" East, 40.24 feet to the Point of Beginning.



**Know what's below.  
Call before you dig.**

FLA. STATUTE 553.851 (1979) REQUIRES A MIN. OF 2 DAYS AND A MAX. OF 5 DAYS NOTICE BEFORE YOU EXCAVATE.

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE CURRENT VERSION OF "THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS, STATE OF FLORIDA", AND ARE IN COMPLIANCE WITH THE STANDARDS THEREIN, EXCEPT AS NOTED ON THE PLANS. ANY DEVIATIONS NOTED ON THE PLANS SUBSTANTIALLY COMPLY WITH THE INTENT OF THE STANDARDS.

DESIGNED FOR  
**CYPRESS POINTE FL, LLC**  
1325 MILLERSPORT HWY., SUITE 209  
WILLIAMSVILLE, NEW YORK 14221  
PH: 716-247-5289

PROJECT NAME  
**CYPRESS POINTE**

SHEET NAME  
**COVER SHEET**

FLORIDA DESIGN  
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— THINK IT, ACHIEVE IT. —

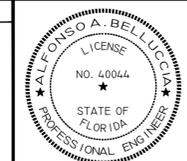


3030 STARKEY BOULEVARD, NEW PORT RICHEY, FLORIDA 34655  
PHONE: (800) 532-1047 FAX: (727) 848-3648 WWW.FLDESIGN.COM C.A. NO. 7421

PLAN SET DATE  
**AUG 1, 2016**

SHEET  
**1 OF 39**

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DATE	2016-009	NO.	542	DATE	7-22-2016	NO.	AVS	DATE		NO.	AB
REVISION											

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WILLIAMSVILLE, NEW YORK 14221  
PH: 716-247-5289

PROJECT NAME  
**CYPRESS POINTE**

SHEET NAME  
**PRELIMINARY SITE PLAN**

FOR  
**FLORIDA DESIGN CONSULTANTS, INC.**  
— THINK IT, ACHIEVE IT. —

3030 STARKEY BOULEVARD, NEW PORT RICHEY, FLORIDA 34655  
PHONE: (800) 532-1047 FAX: (727) 848-3648 WWW.FLDESIGN.COM C.A. NO. 7421

**SITE DATA**

PARCEL ID: 29-26-18-0000-00200-0011  
 SITE AREA: 15.5 ACRES  
 EXISTING LAND USE: EC  
 EXISTING ZONING: MPUD APPROVED APRIL 22, 2014 RZ 7092

**PARKING REQUIRED**

8102 SF CLUBHOUSE	1 SPACES/200SF = 8102/200 = 41
1, 2, & 3 BEDROOM	2 SPACES/UNIT X 252 = 504
VISITOR	0.25 SPACES/UNIT X 252 = 63
<b>TOTAL</b>	<b>= 608</b>

H/C ACCESSIBLE 2% OF 608 SPACES = 12  
 BICYCLE(UNITS) 2% OF 608 SPACES = 12  
 BICYCLE(CLUBHOUSE) 5% OF 41 SPACES = 2

**PARKING PROVIDED**

3-4 UNIT GARAGES (G1, G2 & G3)	= 12 SPACES
GARAGES WITHIN APT BLDG'S	= 35 SPACES
TANDEM SPACES ADJ TO GARAGES	= 35 SPACES
SURFACE SPACES (INCLUDES 13 H/C)	= 513 SPACES
<b>TOTAL</b>	<b>= 595 SPACES</b>

**NEIGHBORHOOD PARK REQUIRED**

1 ACRE FOR 26 TO 100 DWELLING UNITS	= 1
1/100 OF 1 ACRE FOR EACH DWELLING UNIT OVER 100	= 1.52
<b>TOTAL</b>	<b>= 2.52 ACRES</b>

**NEIGHBORHOOD PARK PROVIDED**

PARK AREA 1	= 1.35 AC	PARK AREA SHALL CONTAIN BOTH ACTIVE (EXERCISE STATIONS/BICYCLE RACKS-14 TOTAL) AND PASSIVE (BENCHES) RECREATIONAL USES
PARK AREA 2	= 0.87 AC	
PARK AREA 3	= 0.47 AC	
<b>TOTAL</b>	<b>= 2.69 AC</b>	

**BUILDING UNIT DATA**

1 BEDROOM	= 78 UNITS
2 BEDROOM	= 150 UNITS
3 BEDROOM	= 24 UNITS

**BUILDING AREA**

CLUB HOUSE	= 8,102 SF
2-4 UNIT GARAGES (G1 & G2) 987 SF EACH	= 1,974 SF
4 UNIT HC GARAGE (G3)	= 1,103 SF
MAINTENANCE BUILDING	= 941 SF
BUILDING TYPE 1 (BLDG'S 2, 3, 4) 80,540 SF EACH	= 241,620 SF
BUILDING TYPE 2 (BUILDING 5)	= 52,955 SF
BUILDING TYPE 3 (BUILDING 1)	= 60,184 SF
<b>TOTAL</b>	<b>= 366,879 SF</b>

GREEN AREA AROUND THE BUILDING CALCS: (SEE LANDSCAPE PLANS)

FLOOR AREA RATIO: (366,879/43560) / 15.5 AC = 0.54

MAXIMUM BUILDING HEIGHT = 45' (54' PENDING MPUD MOD)

**PROPOSED BUILDING HEIGHTS**

CLUB HOUSE	= 22'-7"
GARAGE BUILDINGS (G1, G2 AND G3)	= 13'-6"
BUILDING TYPE 1 (BUILDINGS 2, 3 AND 4)	= 54'
BUILDING TYPE 2 (BUILDING 5)	= 54'
BUILDING TYPE 3 (BUILDING 1)	= 54'
MAINTENANCE BUILDING	= 16'-4"

**BUILDING SETBACKS**

FRONT (EAST AND SOUTH)	20' (EAST AND SOUTH)
SIDE (WEST)	15' (WEST)
SIDE (NORTH)	20' FOR BUILDINGS LESS THAN 35' IN HEIGHT 50' FOR BUILDINGS GREATER THAN 35' IN HEIGHT

**IMPERVIOUS/PERVIOUS AREAS**

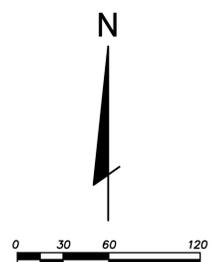
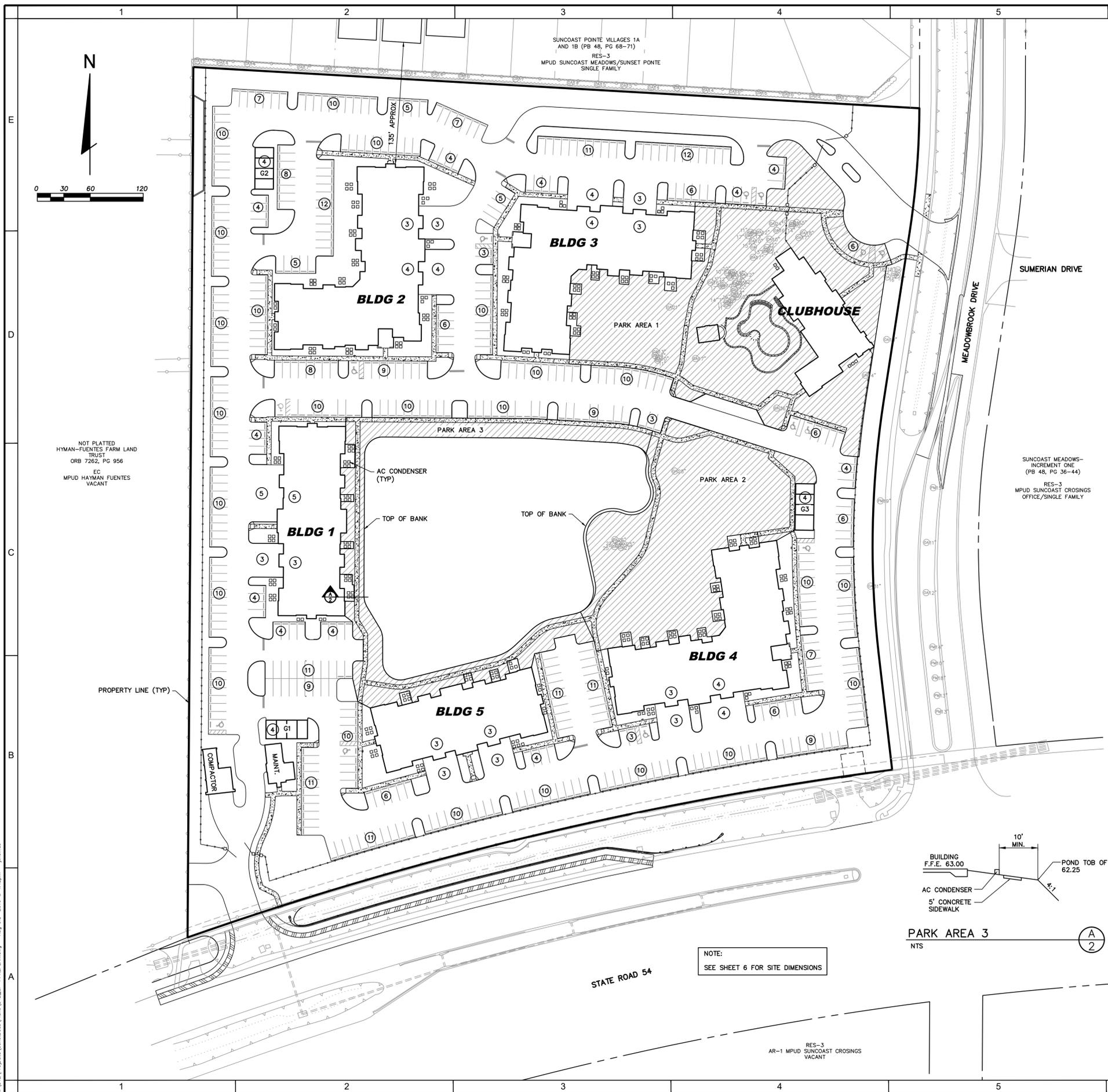
IMPERVIOUS (S/W BLDG'S, PAVEMENT AND POOL AREA)	= 368,350 SF
PERVIOUS (PARKS, POND AND OPEN SPACES)	= 306,909 SF
<b>IMPERVIOUS AREA RATIO (368,350/43560)/15.5 = 55%</b>	

FLOOD ZONE "X" AND "AE" PER F.I.R.M. COMMUNITY PANEL 12101C0383F, DATED SEPTEMBER 26, 2014

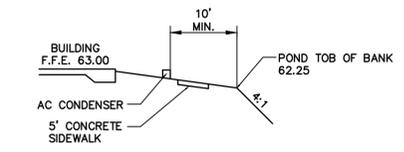
LIGHTING USED TO ILLUMINATE ANY PARKING AREAS SHALL BE SO ARRANGED AS TO DIRECT AND/OR SHIELD LIGHT AWAY FROM ADJOINING R.O.W.

**UTILITY PROVIDERS:**

ELECTRIC: DUKE ENERGY  
 TELEPHONE/CABLE: FRONTIER OR BRIGHTHOUSE  
 WATER/WASTEWATER/FIRE: PASCO COUNTY



NOTE:  
SEE SHEET 6 FOR SITE DIMENSIONS



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**GENERAL NOTES**

- 1. ALL ELEVATIONS ARE BASED ON NAVD-1988 DATUM.
- 2. ALL OPEN/DISTURBED AREAS TO BE SODED, AREAS WHERE SOD IS REQUIRED SHALL BE SAND GROWN AND STAKED AS NECESSARY TO PREVENT DISPLACEMENT. SODED SLOPES GREATER THAN A 4:1 SLOPE SHALL BE PEGGED.
- 3. ELECTRICAL SERVICE WILL BE PROVIDED BY DUKE ENERGY.
- 4. TELEPHONE AND CABLE SERVICE WILL BE PROVIDED BY BRIGHT HOUSE OR FRONTIER.
- 5. THE SITE IS LOCATED WITHIN FLOOD ZONES "X" AND "AE". FIRST FLOOR ELEVATIONS SHALL BE AT OR ABOVE THE 100-YEAR FLOOD ELEVATION (REFERENCE: FLOOD INSURANCE RATE MAP PANEL NO. 12101C0383F, DATED SEPTEMBER 26, 2014).
- 6. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN THE VICINITY OF TREES TO REMAIN AND IS RESPONSIBLE FOR ANY DAMAGE RESULTING FROM HIS WORK.
- 7. BURN AREAS, IF PERMISSIBLE, SHALL BE LIMITED TO PROPOSED PONDS AS DIRECTED BY THE OWNER OR HIS AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING AND BEING IN COMPLIANCE WITH THE APPROPRIATE BURN PERMIT(S).
- 8. EXCESS FILL MATERIAL IS NOT ANTICIPATED ON THIS PROJECT.
- 9. NO BUFFER SHALL ENROACH INTO THE CLEAR SITE TRIANGLE, AS DEFINED IN SECTION 200 OF THE PASCO COUNTY LAND DEVELOPMENT CODE. SO AS TO BLOCK CLEAR SITE VISIBILITY. ALL CLEAR-SITE AREAS SHALL BE KEPT FREE OF ANY SIGNAGE, PLANTINGS, TREES, ETC. IN EXCESS OF THREE-AND-A-HALF (3 1/2) FEET IN HEIGHT.
- 10. THE LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AS SHOWN AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF THE UTILITIES PRIOR TO CONSTRUCTION IN THEIR VICINITY. THE CONTRACTOR SHALL NOTIFY ALL CONCERNED PUBLIC AGENCIES AND UTILITY COMPANIES IN THE AREA BEFORE BEGINNING CONSTRUCTION, INCLUDING "SUNSHINE" AT 811.
- 11. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL EXPOSE ALL EXISTING UTILITIES TO BE EXTENDED, CONNECTED TO, OR CROSSED FOR VERIFICATION OF THEIR LOCATION AND ELEVATION. ANY CONFLICTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION AND BE SATISFACTORILY RESOLVED BY THE CONTRACTOR.
- 12. IN ACCORDANCE WITH SECTION 905.2.D.6 OF THE PASCO COUNTY LAND DEVELOPMENT CODE, DRAINAGE AREAS THAT ABUT ROAD RIGHT-OF-WAYS SHALL BE PLANTED WITH TREES SELECTED FROM THE TREE LIST AT A RATE OF (1) ONE TREE PER (50) FIFTY LINEAR FEET OF POND BANK. TREES MAY BE PLANTED IN GROUPS IN ACCORDANCE WITH THE APPROVED TREE PLAN.
- 13. IF DURING CONSTRUCTION ACTIVITIES, ANY EVIDENCE OF HISTORIC RESOURCES, INCLUDING, BUT NOT LIMITED TO, ABORIGINAL OR HISTORIC POTTERY, BONE OR SHELL TOOLS, HISTORIC TRASH PITS, OR HISTORIC BUILDING FOUNDATIONS ARE DISCOVERED, WORK SHALL COME TO AN IMMEDIATE STOP AND THE FLORIDA DEPARTMENT OF HISTORIC RESOURCES (STATE HISTORIC PRESERVATION OFFICER) AND PASCO COUNTY SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE RESOURCES BEING FOUND ON THE SITE.
- 14. IF, DURING CONSTRUCTION ACTIVITIES, ANY EVIDENCE OF STATE AND FEDERALLY PROTECTED PLANT AND/OR ANIMAL SPECIES, OTHER THAN THOSE SUBJECT TO ALREADY ISSUED PERMITS, ARE DISCOVERED, WORK SHALL COME TO AN IMMEDIATE STOP, AND PASCO COUNTY SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE PLANT AND/OR ANIMAL SPECIES BEING FOUND.
- 15. ALL PROPOSED SIGNS MUST BE APPLIED FOR, APPROVED, AND PERMITTED ON AN INDIVIDUAL BASIS APART FROM ANY ULTIMATELY-APPROVED SITE PLAN. APPROVAL OF THIS SITE PLAN DOES NOT CONSTITUTE APPROVAL OF ANY SIGNAGE.
- 16. THE ARCHITECT/ENGINEER CERTIFIES THAT THE SITE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT.
- 17. NO IRRIGATION SYSTEM OR LANDSCAPING SHALL BE INSTALLED IN ANY COUNTY OR STATE RIGHT-OF-WAY WITHOUT ISSUANCE OF APPROPRIATE RIGHT-OF-WAY USE PERMIT.
- 18. THE OWNER/DEVELOPER ACKNOWLEDGES THAT THE SITE AND ITS SUBSEQUENT BUILDING PERMITS SHALL COMPLY WITH ALL REZONING/MPUD CONDITIONS.
- 19. ALL STRUCTURES, INCLUDING BUFFER WALLS, RETAINING WALLS, SIGNAGE, ETC. REQUIRE SEPARATE BUILDING PERMITS.
- 20. 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.
- 21. 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 CALLED FOR IN CONTRACT.
- 22. 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.
- 23. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
- 24. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER'S ENGINEER SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS. FAILURE TO OBTAIN ENGINEER'S COMMENTS BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE.
- 25. 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 UNLESS SPECIFICALLY EXEMPTED BY THE PLANS.
- 26. CONTRACTOR SHALL VERIFY THE LENGTHS OF ALL PIPE PRIOR TO BIDDING AND INSTALLATION. NO EXTRAS WILL BE APPROVED FOR ADDITIONAL PIPE LUMP SUM CONTRACTS EXCEPT AS A RESULT FROM PLAN CHANGES.
- 27. ADJUSTMENTS OF INLETS, JUNCTION BOXES, MANHOLE TOPS, WATER VALVES, WATER METERS, ETC. SHALL BE INCLUDED IN THE CONTRACTOR'S BID AND NO CLAIM SHALL BE MADE AGAINST THE OWNER OR ENGINEER FOR THESE ADJUSTMENTS, IF REQUIRED.
- 28. IT WILL BE NECESSARY TO EXAMINE, COORDINATE AND ADJUST ACCORDINGLY THE PROPOSED LOCATIONS OF THE VARIOUS COMPONENTS OF THE SITE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT COORDINATION DRAWINGS SHOWING PIPE SIZES, STRUCTURES, AND ELEVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCHEDULING AND COORDINATION OF THE ALL UNDERGROUND WORK ASSOCIATED WITH THIS PROJECT.
- 29. 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.

**SAFETY**

- 1. DURING THE CONSTRUCTION AND MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS PERSONNEL.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING TRENCHES SHALL BE KEPT DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.
- 3. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.
- 4. CONTRACTOR SHALL PROVIDE AND MAINTAIN ITS OWN SAFETY EQUIPMENT IN ACCORDANCE WITH ITS HEALTH & SAFETY PROGRAM AND ALL OTHER APPLICABLE LEGAL AND HEALTH AND SAFETY REQUIREMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING ITS EMPLOYEES AND SUB CONTRACTORS WITH ADEQUATE INFORMATION AND TRAINING TO ENSURE THAT ALL EMPLOYEES AND SUB CONTRACTORS AND SUB CONTRACTOR'S EMPLOYEES COMPLY WITH ALL APPLICABLE REQUIREMENTS. CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH ALL OCCUPATION SAFETY AND HEALTH REGULATIONS AS WELL AS THE ENVIRONMENTAL PROTECTION LAWS. THE FOLLOWING IS NOT TO BE PERCEIVED AS THE ENTIRE SAFETY PROGRAM BUT JUST BASIC REQUIREMENTS.
- 5. ALL EXCAVATIONS BY THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION RULES AND REGULATIONS, PARTICULAR ATTENTION MUST BE PAID TO THE CONSTRUCTION STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926, SUBPART P.
- 6. THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF THE "STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS" SHALL BE FOLLOWED IN THE DESIGN APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKMEN FROM HAZARDS WITHIN THE PROJECT LIMITS.
- 7. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.
- 8. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.
- 9. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE UTILITY COMPANIES PRIOR TO CONSTRUCTION TO OBTAIN FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES. CALL SUNSHINE ONE AT 811.
- 10. THE CONTRACTOR'S MAINTENANCE OF TRAFFIC PLAN MUST BE SUBMITTED TO AND APPROVED BY, THE APPROPRIATE GOVERNMENTAL AGENCIES PRIOR TO BEGINNING ANY CONSTRUCTION.

**EROSION/TURBIDITY CONTROL**

- 1. ALL COSTS ASSOCIATED WITH ADDITIONAL TURBIDITY EROSION CONTROL ARE INCIDENTAL TO THE DEWATERING COSTS OR THE ITEM THAT REQUIRES THE DEWATERING.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REQUIREMENTS CONTAINED IN NPDES EROSION AND SEDIMENTATION

CONTROLS INCLUDING ALL REPORTING AND MAINTENANCE REQUIREMENTS UNTIL SUCH TIME AS THE PROJECT INFRASTRUCTURE IS ACCEPTED BY HILLSBOROUGH COUNTY.

- 3. THE INSTALLATION OF TEMPORARY EROSION CONTROL BARRIERS SHALL BE COORDINATED WITH THE CONSTRUCTION OF THE PERMANENT EROSION CONTROL FEATURES TO THE EXTENT NECESSARY TO ASSURE ECONOMICAL, EFFECTIVE AND CONTINUOUS CONTROL OF EROSION AND WATER POLLUTION THROUGHOUT THE LIFE OF THE CONSTRUCTION PHASE.
- 4. THE TYPE OF EROSION CONTROL BARRIERS USED SHALL BE GOVERNED BY THE NATURE OF THE CONSTRUCTION OPERATION AND SOIL TYPE THAT WILL BE EXPOSED. SILTY AND CLAYEY MATERIAL USUALLY REQUIRE SOLID SEDIMENT BARRIERS TO PREVENT TURBID WATER DISCHARGE, WHILE SANDY MATERIAL MAY NEED ONLY SILT SCREENS OR HAY BALES TO PREVENT EROSION. FLOATING TURBIDITY CURTAINS SHALL BE USED IN OPEN WATER SITUATIONS. DIVERSION DITCHES OR SWALES MAY BE REQUIRED TO PREVENT TURBID STORMWATER RUNOFF FROM BEING DISCHARGED TO WETLANDS OR OTHER WATER BODIES. IT MAY BE NECESSARY TO EMPLOY A COMBINATION OF BARRIERS, DITCHES AND OTHER EROSION/TURBIDITY CONTROL MEASURES IF CONDITIONS WARRANT.
- 5. CONSTRUCTION OPERATIONS IN OR ADJACENT TO WETLANDS SHALL BE RESTRICTED TO THOSE AREAS IDENTIFIED IN THE PLANS AND IN THE SPECIFICATIONS.
- 6. EXCEPT AS NECESSARY FOR CONSTRUCTION, EXCAVATED MATERIAL SHALL NOT BE DEPOSITED IN THE WETLANDS OR IN A POSITION CLOSE ENOUGH THERETO TO BE WASHED AWAY BY HIGH WATER OR RUNOFF.
- 7. WHERE PUMPS ARE TO BE USED TO REMOVE TURBID WATERS FROM CONSTRUCTION AREAS, THE WATER SHALL BE TREATED PRIOR TO DISCHARGE TO THE WETLANDS. TREATMENT METHODS INCLUDE AND ARE NOT LIMITED TO, TURBID WATER BEING PUMPED INTO GRASSED SWAL OR APPROPRIATELY VEGETATED AREAS, SEDIMENT BASINS, OR CONFINED BY AN APPROPRIATE ENCLOSURE SUCH AS TURBIDITY BARRIERS, AND KEPT CONFINED UNTIL ITS TURBIDITY LEVEL MEETS STATE WATER QUALITY STANDARDS.
- 8. THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS SUCH THAT THE AREA OF UNPROTECTED ERODIBLE EARTH EXPOSED AT ANY ONE TIME IS NOT LARGER THAN THE MINIMUM AREA NECESSARY FOR EFFICIENT CONSTRUCTION OPERATIONS, AND THE DURATION OF EXPOSED, UNCOMPLETED CONSTRUCTION TO THE ELEMENTS SHALL BE AS SHORT AS PRACTICABLE. CLEARING AND GRUBBING SHALL BE SO SCHEDULED AND PERFORMED THAT GRADING OPERATIONS CAN FOLLOW IMMEDIATELY THEREAFTER, AND GRADING OPERATIONS SHALL BE SCHEDULED AND PERFORMED THAT PERMANENT EROSION CONTROL FEATURES CAN FOLLOW IMMEDIATELY THEREAFTER IF CONDITIONS ON THE PROJECT PERMIT.
- 9. THE CONTRACTOR AND/OR OWNER'S REPRESENTATIVE SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY EROSION CONTROL FEATURES UNTIL THE PROJECT IS COMPLETE AND ALL BARED SOILS ARE STABILIZED.
- 10. THE CONTRACTOR SHALL CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS APPROVED BY THE OWNER OR HIS AUTHORIZED REPRESENTATIVE.
- 11. ALL PRACTICABLE AND NECESSARY EFFORT, INCLUDING BUT NOT LIMITED TO THE USE OF STAKED HAY BALES OR STAKED SILT SCREEN BARRIERS, SHALL BE TAKEN DURING CONSTRUCTION TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT MATERIALS TO INLETS, SURFACE DRAINS, WETLANDS AND POND AREAS. STAKED HAY BALES AND STAKED SILT SCREEN BARRIERS SHALL BE INSTALLED PRIOR TO AND MAINTAINED THROUGHOUT CONSTRUCTION. COMPLETENESS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESTORATION EFFORTS THAT MAY BE REQUIRED.
- 12. THE CONTRACTOR SHALL RETAIN ALL EFFLUENT FROM DEWATERING ACTIVITIES ON-SITE WITHIN ISOLATED PONDS OR WETLANDS. NO WATER FROM DEWATERING ACTIVITIES SHALL BE PERMITTED TO LEAVE THE SITE WITHOUT PRIOR WRITTEN APPROVAL FROM SWFMD. ALL WATER FROM DEWATERING ACTIVITIES SHALL PASS THROUGH DEWATERING BAGS (EQUIVALENT TO ULTRA DEWATERING BAGS AS PRODUCED BY ULTRA TECH INTERNATIONAL, INC.) OR APPROVED ALTERNATE.

**CLEARING AND SITE PREPARATION NOTES**

- 1. PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN ON THE CONSTRUCTION PLANS SHALL BE PROTECTED IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY'S TREE ORDINANCE, AND DETAILS CONTAINED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION.
- 2. CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS WILL BE SEEDED, MULCHED, OR PLANTED WITH OTHER APPROPRIATE LANDSCAPE MATERIAL IMMEDIATELY FOLLOWING CONSTRUCTION.
- 3. ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
- 4. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR/SUBCONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY. IT SHALL BE THE CONTRACTOR'S/SUBCONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR/SUBCONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANIES AND THE CONTRACTOR/SUBCONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES DURING RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR/SUBCONTRACTOR BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
- 5. ALL TREE ROOTS EXISTING WITHIN APPROVED AREAS AND ORIGINATING FROM A PROTECTED TREE, SHALL BE SEVERED CLEAN AT THE LIMITS OF THE PRESERVED AREA AS SHOWN ON THE TREE REMOVAL PLAN.
- 6. ALL TRIMMING UNDERTAKEN ON A TREE PROTECTED BY THE PROVISIONS OF THE LAND DEVELOPMENT CODE SHALL BE PRUNED IN ACCORDANCE WITH THE NATIONAL ARBORIST ASSOCIATION (NAA) PRUNING STANDARDS.
- 7. NO GRADE CHANGES SHOULD OCCUR WITHIN THE DRIP LINE OF TREES TO REMAIN.
- 8. ALL TREES TO REMAIN MUST BE PROTECTED BY TREE PROTECTION BARRICADES MEETING THE MINIMUM CODE STANDARDS. PROTECTIVE BARRICADES SHALL REMAIN IN PLACE UNTIL LAND ALTERATION AND CONSTRUCTION ACTIVITIES ARE COMPLETE.
- 9. DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL NOT REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIP LINE OF A TREE TO REMAIN ON THE SITE UNLESS OTHERWISE APPROVED BY THE COUNTY.
- 10. CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, AND EXISTING WETLANDS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. IF, IN THE OPINION OF THE ENGINEER AND / OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.
- 11. PRIOR TO THE START OF CLEARING AND GRUBBING, OR ANY SOIL DISTURBANCE, CONTACT PASCO COUNTY STORMWATER MANAGEMENT AT (727) 834-3611 FOR A SOIL EROSION AND SEDIMENT CONTROL PRE-INSPECTION MEETING.

**SANITARY SEWER AND WATER DISTRIBUTION NOTES**

- 1. ALL SEWER AND WATER PIPE MATERIAL AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE PASCO COUNTY "STANDARDS FOR DESIGN AND CONSTRUCTION OF WATER, WASTEWATER, AND RECLAIMED WATER FACILITIES", LATEST EDITION. SANITARY SEWER SHALL BE PVC (SDR-35) UP TO DEPTHS OF 12 FEET, DEPTHS BETWEEN 12 FEET AND 18 FEET SHALL BE PVC (SDR-26) AND DEPTHS EXCEEDING 18 FEET SHALL BE PVC (C-900). ALL SANITARY SEWER SHALL BE COLORED GREEN. WATER PIPE 2" THROUGH 3" SHALL BE PVC (SDR-21) AND 4" THROUGH 12" SHALL BE PVC ANWA C-900, DR-18. ALL WATER PIPE SHALL BE COLORED BLUE.
- 2. ALL SANITARY SEWER AND POTABLE WATER SERVICE LATERALS SHALL BE MARKED WITH PAINT ON THE EDGE OF PAVEMENT AND WITH WOOD STAKES AT THE END OF SERVICE LATERALS (BLUE PAINT FOR WATER AND GREEN PAINT FOR SEWER) OR SOME OTHER APPROVED METHOD.
- 3. CONFLICTS OF WATER LINES WITH SANITARY SEWER AND STORM SEWER SYSTEMS SHALL BE RESOLVED BY ADJUSTING WATER LINES AS NECESSARY.
- 4. POTABLE WATER LINE AND SANITARY SEWER LINES SHALL HAVE A MINIMUM OF 36-INCHES OF COVER FROM PROPOSED GRADE. (UNLESS APPROVED IN WRITING BY THE PROJECT ENGINEER).
- 5. APPROXIMATE POTABLE WATER LINE DISTANCES ARE SHOWN BETWEEN CENTERS OF MAIN FITTINGS. THE CONTRACTOR SHALL PROVIDE ALL FITTINGS REQUIRED FOR COMPLETE SYSTEMS IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICES.
- 6. ALL WATER MAINS SHALL MAINTAIN A MINIMUM HORIZONTAL SEPARATION OF 10 FEET FROM ALL SANITARY SEWER, STORM SEWER AND FOREMANS. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. A MINIMUM VERTICAL SEPARATION OF 18 INCHES SHALL BE MAINTAINED BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE.
- 7. ALL WATER LINE PIPE JOINTS SHALL BE A MINIMUM OF 10 FEET FROM THE CENTERLINE OF ANY STORM SEWER STRUCTURE (MANHOLES, INLETS OR CATCH BASINS).
- 8. SEWAGE DISPOSAL SHALL BE PROVIDED BY PASCO COUNTY UTILITIES VIA AN EXISTING SANITARY SEWER SYSTEM.
- 9. POTABLE WATER SHALL BE PROVIDED BY PASCO COUNTY FROM AN EXISTING WATER MAIN SYSTEM.
- 10. FIRE PROTECTION WILL BE PROVIDED FROM HYDRANTS BY THE PASCO COUNTY FIRE DEPARTMENT.
- 11. AT THE TERMINATION OF EACH WATER MAIN, A GATE VALVE THE SAME SIZE AS THE WATER MAIN AND 2" TEMPORARY BLOW-OFF SHALL BE INSTALLED. VALVES AND BLOW-OFFS SHALL BE RESTRAINED AND CONSTRUCTED IN ACCORDANCE WITH THE CURRENT PASCO COUNTY STANDARDS.
- 12. TYPICAL-ALL WATER LINES AND FOREMANS DEFLECTING AROUND INLETS, TREES OR OTHER OBSTRUCTIONS SHALL USE THE PIPE DEFLECTION METHOD AS REQUIRED BY P.C.U.D.
- 13. CONTRACTOR SHALL PREVENT FLOATION OF STRUCTURES DURING ALL PHASES OF CONSTRUCTION.
- 14. RAISED PAVEMENT MARKINGS INDICATING THE FIRE HYDRANT LOCATIONS SHALL BE PROVIDED IN ACCORDANCE WITH PASCO COUNTY CODE.
- 15. HYDRANTS SHALL BE FLOW TESTED BY THE CONTRACTOR. THIS COULD BE PART OF A UTILITY INSPECTION OR A SEPARATE TEST, BUT NOT PART OF THE PRESSURE TEST. THE ENGINEER OF RECORD OR THEIR APPOINTED REPRESENTATIVE MUST BE PRESENT AT THIS FLOW TEST.

- 16. FIRE HYDRANTS MUST BE FLOW TESTED AND COLOR-CODED, BASED ON FLOW RESULTS, THE CAPS (TOP AND 3 SIDES) ARE TO BE COLOR CODED: 0-500 GPM RED CLASS A, 500-1000 GPM ORANGE CLASS B, 1000-1500 GPM GREEN CLASS A, AND 1500+ GPM BLUE CLASS AA. ALL HYDRANT BODIES ARE TO BE BASE COLORED YELLOW.
- 17. THE SANITARY SEWER PLEGS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL CERTIFICATION HAS BEEN COMPLETED FOR FACILITIES TO BE PLACED INTO SERVICE.
- 18. ALL WATER METERS ARE TO BE LOCATED OUTSIDE OF DRIVEWAYS.
- 19. ALL COMPONENTS OF WATER SYSTEM, INCLUDING FITTINGS, THRUST BLOCKING, HYDRANTS, CONNECTIONS AND VALVES SHALL REMAIN UNCOVERED UNTIL PROPERLY PRESSURE TESTED AND ACCEPTED BY THE OWNER'S ENGINEER. PRESSURE TESTS TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE REQUIREMENTS OF THE APPROPRIATE MUNICIPALITY. CONTRACTOR TO NOTIFY OWNER'S ENGINEER AND COUNTY INSPECTORS 48 HOURS IN ADVANCE OF PERFORMING TESTS.
- 20. CONTRACTOR TO PERFORM CHLORINATION AND BACTERIOLOGICAL SAMPLING AND OBTAIN CLEARANCE OF DOMESTIC WATER SYSTEM. COPIES OF ALL BACTERIOLOGICAL TESTS TO BE SUBMITTED TO OWNER'S ENGINEER.
- 21. SANITARY SEWERS, FORCE MAINS AND STORM SEWERS CROSSING WATER MAIN SHALL BE LAYED 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.
- 22. 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 WATER SEWERS IF IT IS NOT AVAILABLE IN THE SIZE PROPOSED/ALSO, A SANITARY SEWER OR FORCE MAIN MAY BE 6000 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 WITHIN A 10 FOOT LONG STEEL OR PVC CASING CENTERED ON THE CROSSING, WHERE WATER MAIN CROSSES BELOW SEWER MAIN, ENCASEMENT OF BOTH MAINS IS MANDATORY.
- 23. 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.
- 24. ALL CROSSINGS 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).
- 25. 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.
- 26. A MINIMUM OF 10-FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.
- 27. 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.
- 28. WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR 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).
- 29. ALL ON-SITE PVC WATER MAINS 4-12 INCHES SHALL BE IN ACCORDANCE WITH AWWA C-900 STANDARDS. 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 CLASS 1120 OR 1220 SCHEDULE 80 AND MEET REQUIREMENTS OF ASTM D-1785.
- 30. PE PIPE 2 INCHES OR SMALLER SHALL MEET THE REQUIREMENTS OF ASTM D-1248.
- 31. ALL DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI STANDARDS A21.51. MINIMUM CLASS 50. IN AREAS WHERE THE SOIL IS TO BE CORROSIVE OR HIGH GROUND WATER IS EXPECTED, THE PIPE SHALL BE INSTALLED IN LOOSE POLYETHYLENE ENCASEMENT NOT LESS THAN 8 MILS THICK AND INSTALLED IN ACCORDANCE WITH ANSI SPECIFICATION A21.51.
- 32. ALL WATER SYSTEM WORK SHALL CONFORM WITH LOCAL REGULATORY STANDARDS AND SPECIFICATIONS.
- 33. ALL NON-METALIC PIPE WILL BE INSTALLED WITH 2 PAIR, 10 GAUGE, COPPER TRACER WIRE.
- 34. CONTRACTOR TO PERFORM CHLORINATION AND BACTERIOLOGICAL SAMPLING AND OBTAIN CLEARANCE OF DOMESTIC WATER SYSTEM. COPIES OFF ALL BACTERIOLOGICAL TESTS TO BE SUBMITTED TO OWNER'S ENGINEER.
- 35. ALL UNDERGROUND UTILITIES MUST BE IN PLACE AND TESTED OR INSPECTED PRIOR TO BASE AND PAVEMENT CONSTRUCTION.
- 36. ALL SANITARY SEWER WORK SHALL CONFORM WITH LOCAL REGULATORY STANDARDS AND SPECIFICATIONS.
- 37. ALL SANITARY SEWER MANHOLE COVERS SHALL BE TRAFFIC RATED FOR H-20 LOADING.
- 38. SANITARY SEWER MAINS AND LATERALS SHALL HAVE A MINIMUM COVER OF THREE (3) FEET.
- 39. JOINTING OF PVC PIPE USING SOLVENT CEMENTING IS NOT PERMITTED.
- 40. NON-METALIC FORCEMAIN PIPE WILL BE INSTALLED WITH TWO PAIR, 10 GAUGE COPPER TRACER WIRE.
- 41. THE CONTRACTOR SHALL PERFORM AT HIS OWN EXPENSE AN INFILTRATION OR EXFILTRATION TEST, A TELEVISION INSPECTION WITH VIDEO-TAPE RECORDS, AND A MANDREL (GO, NO GO) TEST ON ALL GRAVITY SEWERS IN ACCORDANCE WITH THE REQUIREMENTS OF THE REGULATORY AGENCY HAVING JURISDICTION. SAID TEST ARE TO BE CERTIFIED BY THE ENGINEER OF RECORD AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. COORDINATION OF TESTING AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY. THE MUNICIPALITY WILL PERFORM THE T.V. INSPECTION OF THE GRAVITY SEWER. A TESTING AGENCY APPROVED BY THE ENGINEER SHALL PERFORM THE MANDREL TESTING.
- 42. ALL COMPONENTS OF THE POTABLE AND RECLAIMED WATER SYSTEM (IF ANY), INCLUDING FITTINGS, HYDRANTS, CONNECTIONS AND VALVES SHALL REMAIN UNCOVERED UNTIL REVIEWED BY OWNER'S ENGINEER AND PROPERLY INSPECTED AND ACCEPTED BY THE MUNICIPALITY. PRESSURE TESTS TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITIES, UTILITY DEPARTMENT SPECIFICATIONS. CONTRACTOR TO NOTIFY OWNER'S ENGINEER AND MUNICIPALITIES INSPECTOR FROM MUNICIPALITY 72 HOURS IN ADVANCE OF PERFORMING TEST.
- 43. CONTRACTOR TO CLEAN AND FLUSH WATER SERVICE CONNECTION PRIOR TO PLACING INTO SERVICE.
- 44. ALL OF THE ABOVE NOTES APPLY TO ALL SANITARY SEWER AND WATER DISTRIBUTION PLAN SHEETS.

**PAVING, GRADING, AND DRAINAGE NOTES**

- 1. ALL UNDERGROUND UTILITIES INCLUDING CONDUIT FOR ELECTRICAL, CABLE, IRRIGATION AND TELEPHONE CROSSINGS SHALL BE INSTALLED PRIOR TO PAVEMENT CONSTRUCTION.
- 2. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PASCO COUNTY AND FDOT STANDARDS.
- 3. ALL ROADWAY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE CURRENT VERSION OF THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS", STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION.
- 4. PIPE MEASUREMENTS ARE TO CENTER OF STRUCTURES FOR INLETS AND STORM MANHOLES. MITERED END SECTIONS AND FLARED END SECTIONS ARE PART OF PIPE LENGTHS. CURB INLET STATIONS AND OFFSETS ARE CALCULATED TO EDGE OF PAVEMENT. CENTER OF BOX. ALL PIPE LENGTHS ARE APPROXIMATE.
- 5. DRAINAGE RUNOFF (POST DEVELOPMENT) SHALL BE COLLECTED AND DIRECTED TO PONDS VIA PIPES AND SWALES AS INDICATED ON THE MASTER DRAINAGE PLAN.
- 6. STAKED SILT FENCE SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS PRIOR TO ANY CONSTRUCTION ACTIVITIES IN THE VICINITY OF ADJACENT WETLAND AREAS AND SHALL BE MAINTAINED THROUGHOUT THE PROJECT COMPLETION.
- 7. FOR CONTROL STRUCTURE DATA, SEE POND & DRAINAGE STRUCTURE DETAIL SHEETS AND PAVING, GRADING AND DRAINAGE PLANS.
- 8. AFTER CONSTRUCTION OF EACH POND CONTROL STRUCTURE IS COMPLETED, A PERMANENT BENCHMARK SHALL BE ESTABLISHED ADJACENT TO OR ON THE OUTLET STRUCTURE.
- 9. A CONTRACTOR SHALL PREVENT FLOATION OF STRUCTURES DURING ALL PHASES OF CONSTRUCTION.
- 10. A GEOTECHNICAL TESTING COMPANY SHALL BE PRESENT DURING POND EXCAVATION TO OBSERVE POND EXCAVATION ACTIVITIES. IF LIMESTONE IS ENCOUNTERED DURING EXCAVATION, EXCAVATION IN THIS AREA WILL STOP AND A MINIMUM OF 2 FEET OF CLAY SHALL BE BACKFILLED AND COMPACTED TO THE GEOTECH'S SATISFACTION.
- 11. CONTRACTOR TO PROVIDE A 2" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND ANY STRUCTURE.
- 12. ALL PAVEMENT MARKINGS SHALL CONFORM TO FDOT STANDARD INDEX NO. 17346, SHEETS 1-7.
- 13. CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
- 14. STANDARD INDEXES REFER TO THE LATEST EDITION OF FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS".
- 15. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE CLASS III (ASTM C-76) WITH RUBBER GASKET JOINTS UNLESS OTHERWISE NOTED ON PLANS. ALL INLETS, MANHOLES AND JUNCTION BOXES SHALL CONFORM TO THE FLORIDA DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION. ALL INLETS ARE TO HAVE MANHOLE LIDS FOR MAINTENANCE ACCESS. ALL PIPE ARE TO BE CUT FLUSH WITH THE INSIDE WALLS OF MANHOLES AND JUNCTION BOXES.
- 16. PIPE LENGTHS SHOWN ARE APPROXIMATE AND TO THE CENTER OF DRAINAGE STRUCTURES WITH THE EXCEPTION OF MITERED END AND FLARED END SECTIONS WHICH ARE INCLUDED IN LENGTHS.
- 17. ALL DRAINAGE STRUCTURE GRATES AND COVERS WITHIN TRAFFIC AREAS SHALL BE TRAFFIC RATED FOR H-20 LOADINGS.

- 18. CONTRACTOR TO SOD ANY SUMPS AS INDICATED ON PLANS WITHIN ONE WEEK FOLLOWING CONSTRUCTION OF THE SUMPS.
- 19. ALL STORM DRAINAGE STRUCTURES DEEPER THAN TEN (10) FEET TO HAVE LADDER BARS.
- 20. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NECESSARY DEWATERING PERMITS FROM THE LOCAL WATER MANAGEMENT DISTRICT OR OTHER REGULATORY AGENCY.
- 21. PROTECTION OF EXISTING STORM SEWERS SYSTEMS: DURING CONSTRUCTION, ALL STORM SEWER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC. WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
- 22. MATERIALS AND CONSTRUCTION METHODS FOR STREETS AND STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1996, OR LATEST REVISION THEREOF AND SUPPLEMENTAL SPECIFICATIONS THERETO.
- 23. ALL RELOCATION OR MODIFICATION OF PROPOSED STORM SEWER SYSTEM SHALL NOT BE MADE WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
- 24. ALL BACKFILL OVER STORM SEWER PIPE THAT IS TO BE INSTALLED UNDER ROADWAYS OR WITHIN THE EMBANKMENT, ETC. OF THE ROADWAY IS TO BE COMPACTED TO 98% DENSITY AS DETERMINED BY AASHTO T-160 PER PASCO COUNTY ENGINEERING SERVICES DEPARTMENT TESTING SPECIFICATIONS FOR CONSTRUCTION OF ROADS, STORM DRAINAGE, AND UTILITIES, OCTOBER 2006.
- 25. IF LIMESTONE BEDROCK IS ENCOUNTERED DURING CONSTRUCTION OF THE SURFACE WATER MANAGEMENT SYSTEM, THE DISTRICT MUST BE NOTIFIED AND CONSTRUCTION IN THE AFFECTED AREA SHALL CEASE.
- 26. NO EXCAVATIONS SHALL EXTEND BELOW THE PERMITTED DEPTHS/ELEVATIONS SHOWN ON THE PLANS. NO CONFINING UNIT OF CLAYEY MATERIAL SHALL BE BREACHED AND/OR LIMEROCK MATERIAL SHALL BE EXCAVATED, REGARDLESS IF THESE MATERIALS ARE ENCOUNTERED ABOVE THE PERMITTED EXCAVATION DEPTHS/ELEVATIONS. IF SUCH ARE DISCOVERED DURING EXCAVATION, THE ENGINEER SHALL BE NOTIFIED AND EXCAVATION CEASE IN THAT AREA. IF IT IS DETERMINED THAT SUCH MATERIAL IS NON-CONFINING AND IS WITHIN THE LIMITS OF THE PERMITTED PLANS, THEN EXCAVATION MAY CONTINUE. NO CLAY MATERIAL SHALL BE LEFT EXPOSED IN ANY POND, WHERE CLAY OR SANDY-CLAYS ARE EXPOSED AT THE BOTTOM OR SIDE LIMITS OF THE EXCAVATION, THE CONTRACTOR SHALL OVER-EXCAVATE BY A MINIMUM OF TWELVE (12) INCHES AND BACKFILL WITH CLEAN SANDS TO PREVENT SUSPENSION OF FINE PARTICLES IN THE WATER COLUMN. IN NO INSTANCE SHALL THE CONTRACTOR OVER-EXCAVATE THE BOTTOM OF THE POND IN A WAY TO COMPROMISE A CONFINING LAYER OF CLAY.
- 27. THE STORM DRAINAGE PIPING AND FILTRATION SYSTEM SHALL BE SUBJECT TO A VISUAL OBSERVATION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE.
- 28. THE CONTRACTOR SHALL MAINTAIN THE STORM DRAINAGE SYSTEMS UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE STORM SYSTEM WILL BE REVIEWED BY THE OWNER'S ENGINEER PRIOR TO FINAL ACCEPTANCE.
- 29. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SOILS ENGINEER. TEST WILL BE REQUIRED FOR EMBANKMENT, SUBGRADE, SOIL CEMENT BASE COURSE, AND ASPHALT SURFACE COURSE. ALL TESTING SHALL BE IN ACCORDANCE WITH THE PASCO COUNTY SPECIFICATIONS.
- 30. SOIL ENGINEER TO SUPPLY THE ENGINEER OF RECORD WITH A PHOTOCOPIY OF ALL RESULTS. THE SOILS ENGINEER IS TO VERIFY TO THE ENGINEER OF RECORD IN WRITING THAT ALL TESTING REQUIREMENTS REQUIRED BY LOCAL REGULATORY AGENCY AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) FOR THE IMPROVEMENTS AS REQUIRED BY THE CONSTRUCTION DRAWINGS HAVE BEEN SATISFIED.
- 31. CONTRACTOR TO REVIEW SOILS REPORTS AND BORINGS PRIOR TO BIDDING THE PROJECT AND COMMENCING CONSTRUCTION.
- 32. THE DEVELOPER MAY PROVIDE SIDEWALKS IN EXCESS OF THE MINIMUM COUNTY REQUIREMENTS. THE SIDEWALKS, AS SPECIFIED IN THESE DOCUMENTS, MAY BE CONSTRUCTED SIMILAR TO WHAT IS DEPICTED, BUT IN NO CASE SHALL THE CONSTRUCTED SIDEWALKS BE LESS THAN WHAT IS REQUIRED BY CODE.
- 33. STORM SEWER VIDEO: THE CONTRACTOR WILL VIDEO THE STORMWATER MANAGEMENT SYSTEM, MAKING A COPY AVAILABLE TO THE ENGINEER OF RECORD (EOR) PRIOR TO AN INSPECTION REQUEST FROM PASCO COUNTY ENGINEERING INSPECTIONS. THE COST FOR THIS VIDEO IS TO BE INCLUDED IN THE CONTRACT PROPOSAL.
- 34. ALL OF THE ABOVE NOTES APPLY TO ALL PAVING, GRADING AND DRAINAGE PLAN SHEETS.

**STANDARD FIRE PROTECTION NOTES:**

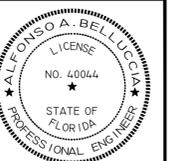
- 1. ALL PROJECTS MUST COMPLY WITH PASCO COUNTY FIRE HYDRANT ORDINANCE NO. 46-51.
- 2. FIRE HYDRANTS SHALL BE INSTALLED AND IN SERVICE PRIOR TO THE ACCUMULATION OF COMBUSTIBLES.
- 3. PER THE NATIONAL FIRE ASSOCIATION, NFPA-1, 16.4.3.1.3. WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED, COMPLETED, AND IN SERVICE PRIOR TO CONSTRUCTION WORK.
- 4. PER NFPA-1, 18.3.4.1.1. CLEARANCES OF 1.5 FEET IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANT WITH A 4 FOOT CLEARANCE TO THE REAR MUST BE MAINTAINED AT ALL TIMES.

**DE-WATERING NOTE:**

- 1. THE CONTRACTOR SHALL RETAIN ALL EFFLUENT FROM DE-WATERING ACTIVITIES ON-SITE WITHIN ISOLATED PONDS OR WETLANDS. NO WATER FROM DE-WATERING ACTIVITIES SHALL BE PERMITTED TO LEAVE THE SITE WITHOUT PRIOR WRITTEN APPROVAL FROM SWFMD. DE-WATERING PLAN SHALL BE SUBMITTED TO SWFMD FOR REVIEW AND APPROVAL. A MINIMUM OF 2 WEEKS PRIOR TO COMMENCEMENT OF DE-WATERING ACTIVITIES. ALL WATER FROM DE-WATERING ACTIVITIES SHALL PASS THROUGH DE-WATERING BAGS (EQUIVALENT TO ULTRA DE-WATERING BAGS AS PRODUCED BY ULTRA TECH INTERNATIONAL, INC.) OR APPROVED ALTERNATE. THE CONTRACTOR MUST PROVIDE A DEWATERING PLAN, IF APPLICABLE TO PASCO COUNTY ENGINEERING INSPECTIONS DEPARTMENT AT (727) 834-3670 FOR REVIEW PRIOR TO THE EROSION CONTROL MEASURES PRE-INSPECTION MEETING.

**GEOTECHNICAL NOTES:**

- 1. SHOULD ANY NOTICEABLE SOIL SLUMPING OR SINKHOLE FORMATION BECOME EVIDENT, THE APPLICANT/DEVELOPER SHALL IMMEDIATELY NOTIFY THE COUNTY, TAMPA BAY WATER (TBW), AND SWFMD, AND ADOPT ONE OR MORE OF THE FOLLOWING PROCEDURES AS DETERMINED TO BE APPROPRIATE BY THE COUNTY AND SWFMD:
  - 2. 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 SWFMD APPROVE RESUMING CONSTRUCTION ACTIVITIES.
  - 3. TAKE IMMEDIATE MEASURES TO ENSURE NO SURFACE WATER DRAINS INTO THE AFFECTED AREAS.
  - 4. VISUALLY INSPECT THE AFFECTED AREA.
  - 5. 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.
  - 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.
  - 8. 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.
  - 9. DISCHARGE OF STORM-WATER INTO DEPRESSIONS WITH DIRECT OR DEMONSTRATED HYDROLOGIC CONNECTION TO THE FLORIDIAN AQUIFER SHALL BE PROHIBITED.
- GEOTECHNICAL REPORTS FOR THIS PROJECT WERE PREPARED BY UNIVERSAL ENGINEERING SCIENCES. SEE REPORTS DATED JULY 21, 2006 (REVISED MAY 9, 2007), FEBRUARY 4, 2016, AND JULY 21, 2016.



PROJECT NAME	2016-0009
PROJECT NO.	542
DATE	7-22-2016
DESIGNED BY	AWA
CHECKED BY	AVS
DATE	AB
SCALE	
REVISIONS	

DESIGNED FOR  
**CYPRESS POINTE FL, LLC**  
1325 MILLERSVILLE HWY., SUITE 209  
WILLIAMSVILLE, NEW YORK 14221  
PH: 716-247-5289

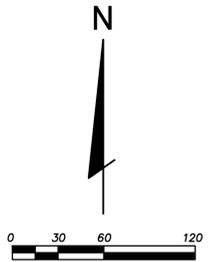
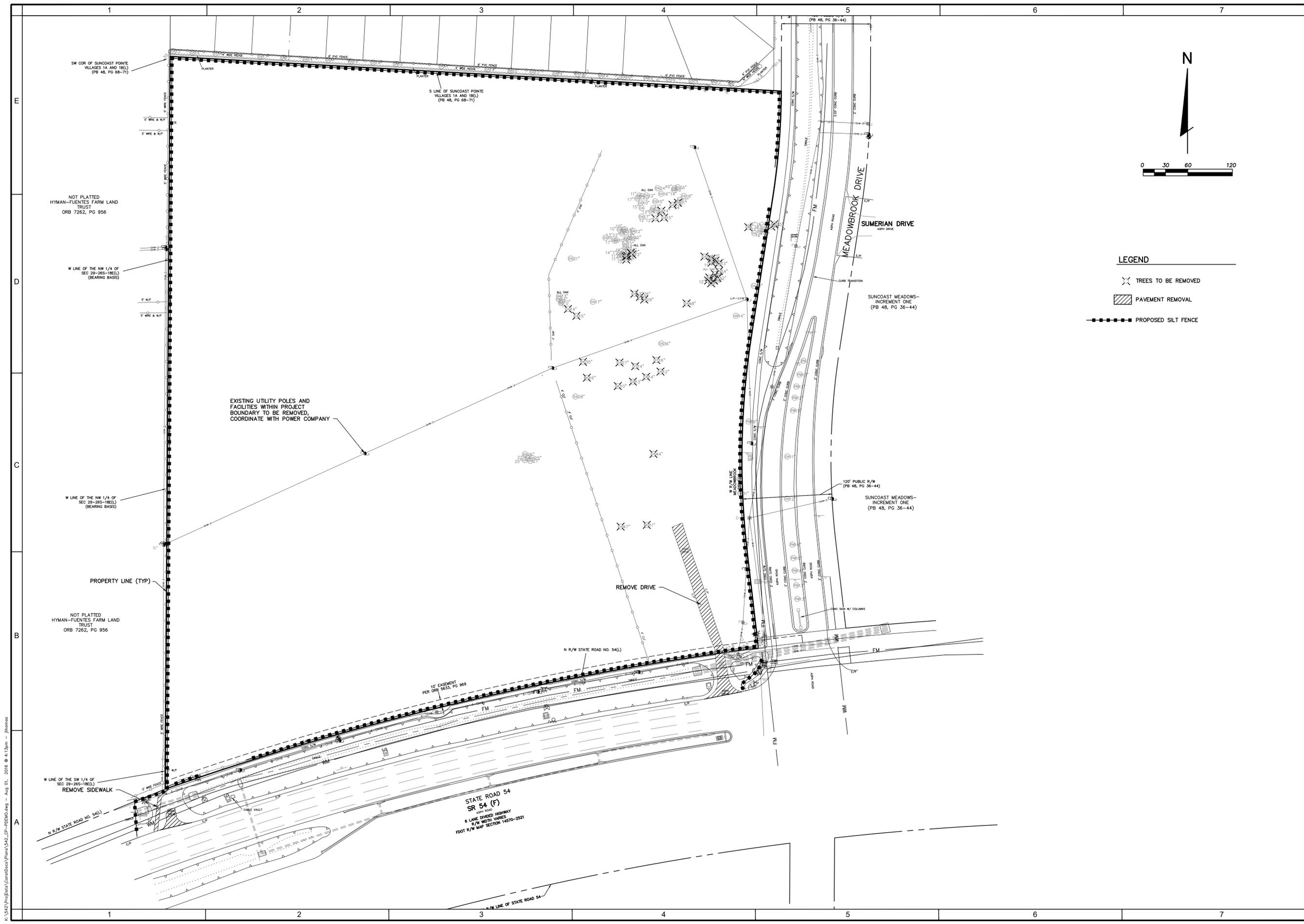
NO.	DATE	REVISIONS

DESIGNED BY  
**FLORIDA DESIGN CONSULTANTS, INC.**  
— THINK IT, ACHIEVE IT. —  
3030 STARKEY BOULEVARD, NEW PORT RICHEY, FLORIDA 34655  
PHONE: (800) 532-1047 FAX: (727) 848-3648 WWW.FLDESIGN.COM C.A. NO. 7421

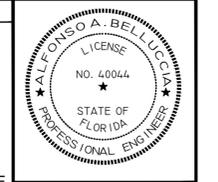
PROJECT NAME  
**CYPRESS POINTE**  
SHEET NAME  
**GENERAL NOTES**







- LEGEND**
- TREES TO BE REMOVED
  - PAVEMENT REMOVAL
  - PROPOSED SILT FENCE



PROJECT NO.	2016-009
DATE	7-22-2016
DESIGNED BY	AVS
CHECKED BY	AVS
DATE	7-22-2016
PROJECT NAME	CYPRESS POINTE
SHEET NAME	DEMOLITION AND SITE PREPARATION PLAN
NO.	1
DATE	
REVISIONS	

DESIGNED FOR  
**CYPRESS POINTE FL, LLC**  
 1325 MILLERSPORT HWY., SUITE 209  
 WILLIAMSVILLE, NEW YORK 14221  
 PH: 716-247-5289

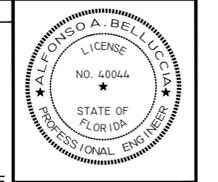
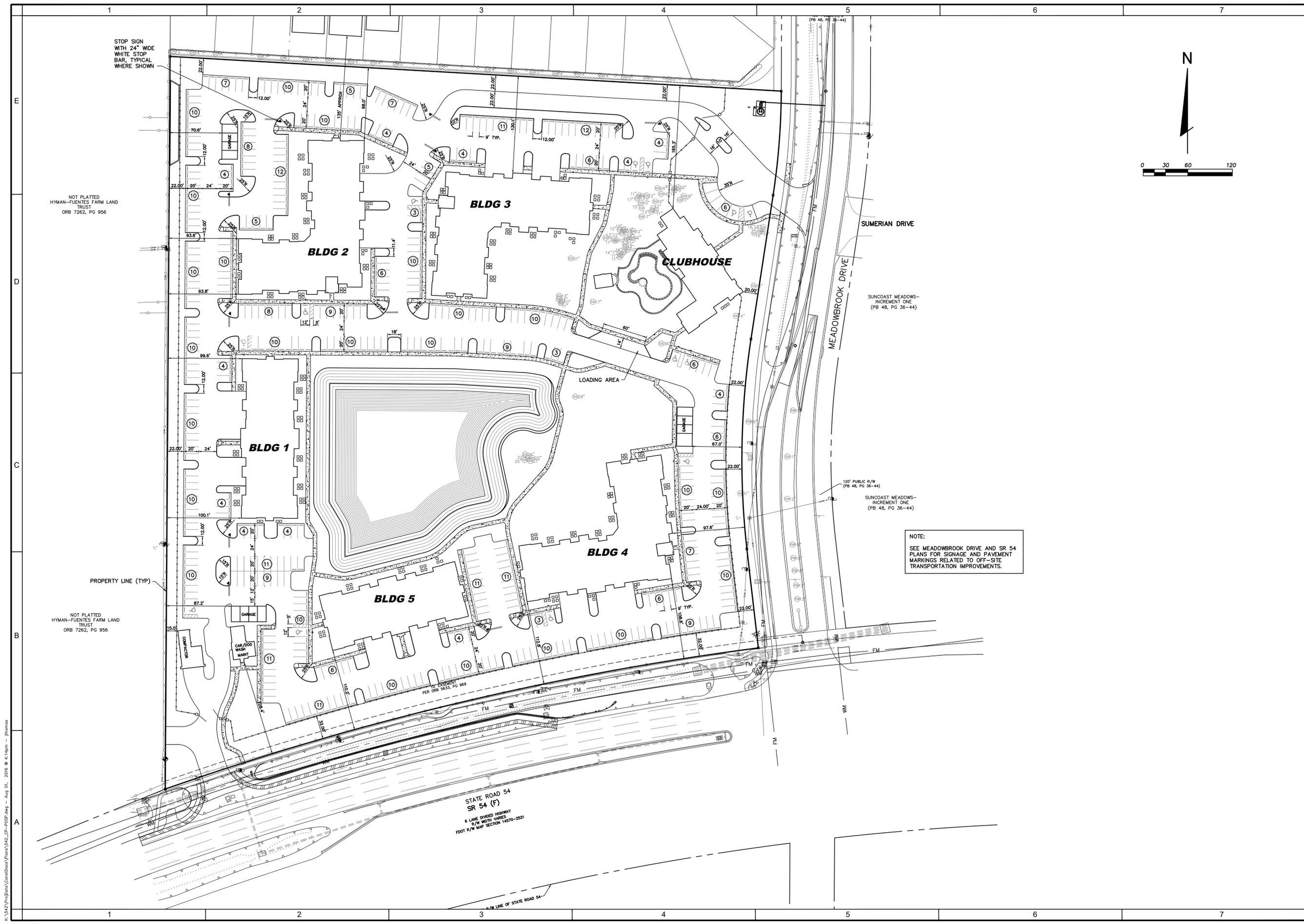
PROJECT NAME  
**CYPRESS POINTE**

SHEET NAME  
**DEMOLITION AND SITE PREPARATION PLAN**

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PROJECT NO.	2016-009
DATE	5-4-16
DESIGNED BY	AVS
CHECKED BY	AVS
DATE	7-22-2016
PROJECT NAME	CYPRESS POINTE
SHEET NAME	SITE DIMENSION PLAN, SIGNAGE AND PAVEMENT MARKING PLAN
NO.	AB
DATE	
REVISIONS	

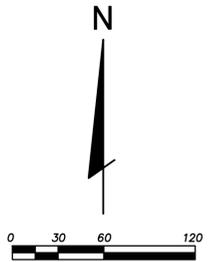
DESIGNED FOR  
**CYPRESS POINTE FL, LLC**  
1325 MILLERSPORT HWY., SUITE 209  
WILLIAMSVILLE, NEW YORK 14221  
PH: 716-247-5289

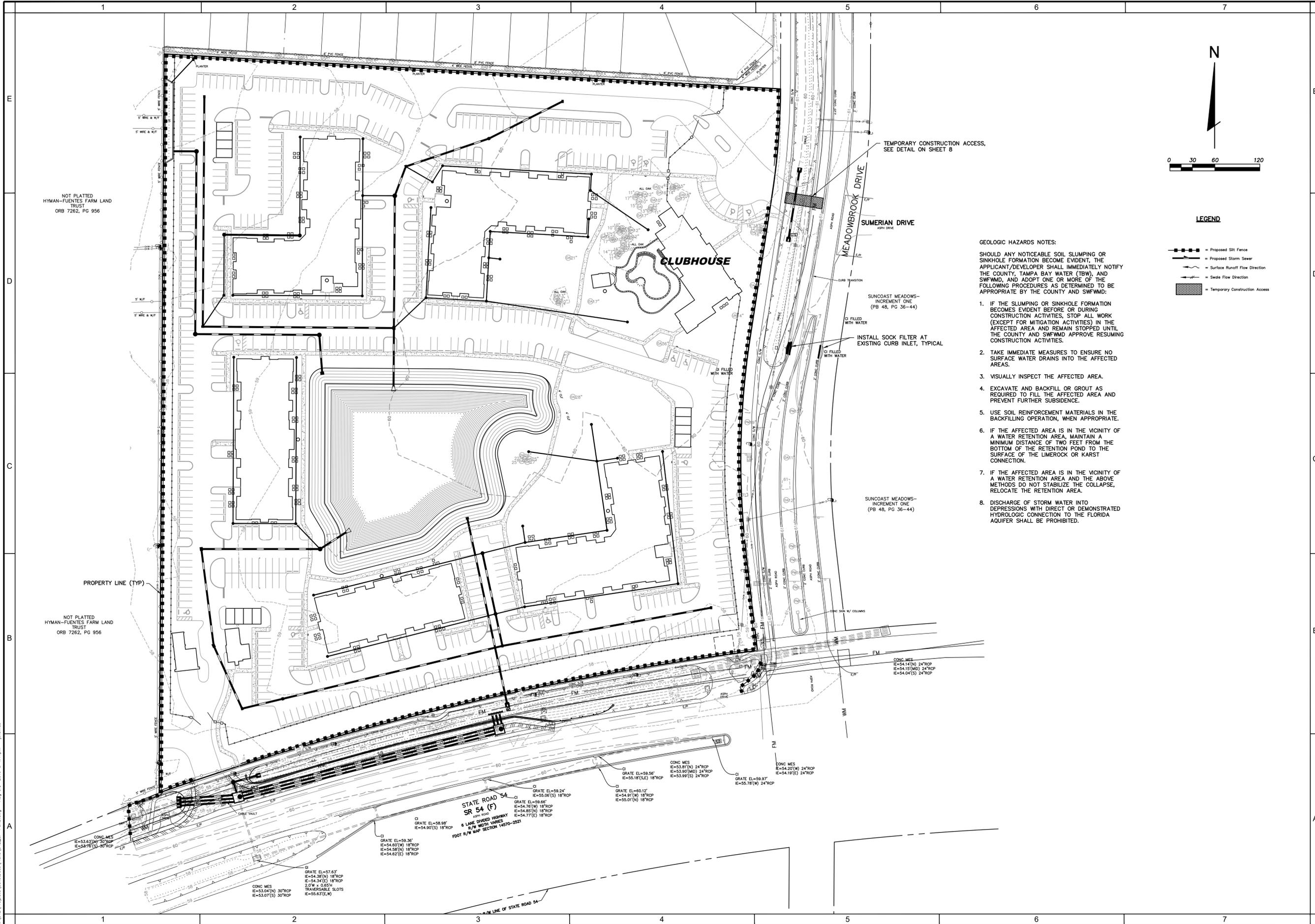
PROJECT NAME  
**CYPRESS POINTE**

SHEET NAME  
**SITE DIMENSION PLAN, SIGNAGE AND PAVEMENT MARKING PLAN**

**FLORIDA DESIGN CONSULTANTS, INC.**  
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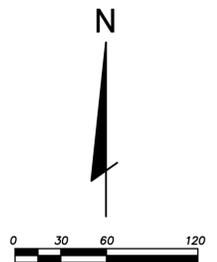
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PHONE: (800) 532-1047 FAX: (727) 848-3648 WWW.FLDESIGN.COM C.A. NO. 7421





NOT PLATTED  
HYMAN-FUENTES FARM LAND TRUST  
ORB 7262, PG 956

NOT PLATTED  
HYMAN-FUENTES FARM LAND TRUST  
ORB 7262, PG 956



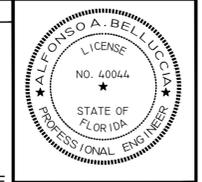
**LEGEND**

- Proposed Silt Fence
- Proposed Storm Sewer
- Surface Runoff Flow Direction
- Slope Flow Direction
- Temporary Construction Access

**GEOLOGIC HAZARDS NOTES:**

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:

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PROJECT NO.	2016-009
DATE	7-22-2016
DESIGNED BY	AVS
CHECKED BY	AVS
DATE	7-22-2016
PROJECT NAME	CYPRESS POINTE
SHEET NO.	7
TOTAL SHEETS	39

DESIGNED FOR  
**CYPRESS POINTE FL, LLC**  
1325 MILLERSPORT HWY., SUITE 209  
WILLIAMSVILLE, NEW YORK 14221  
PH: 716-247-5289

PROJECT NAME  
**CYPRESS POINTE**

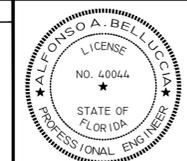
SHEET NAME  
**OVERALL DRAINAGE AND STORMWATER POLLUTION PREVENTION PLAN (1)**

**FLORIDA DESIGN CONSULTANTS, INC.**  
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PHONE: (800) 532-1047 FAX: (727) 848-3648 WWW.FLDESIGN.COM C.A. NO. 7421

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PROJECT NO.	2016-009
DATE	5/4/2016
ISSUED FOR	AVS
ISSUED BY	AVS
DATE	7-22-2016
ISSUED FOR	AVS
ISSUED BY	AVS
DATE	
ISSUED FOR	AB
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DATE	
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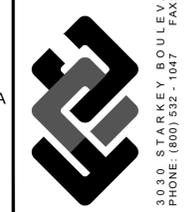
DESIGNED FOR  
**CYPRESS POINTE FL, LLC**  
1325 MILLERSPORT HWY., SUITE 209  
WILLIAMSVILLE, NEW YORK 14221  
PH: 716-247-5289

PROJECT NAME  
**CYPRESS POINTE**

SHEET NAME  
**OVERALL DRAINAGE AND STORMWATER POLLUTION PREVENTION PLAN (2)**

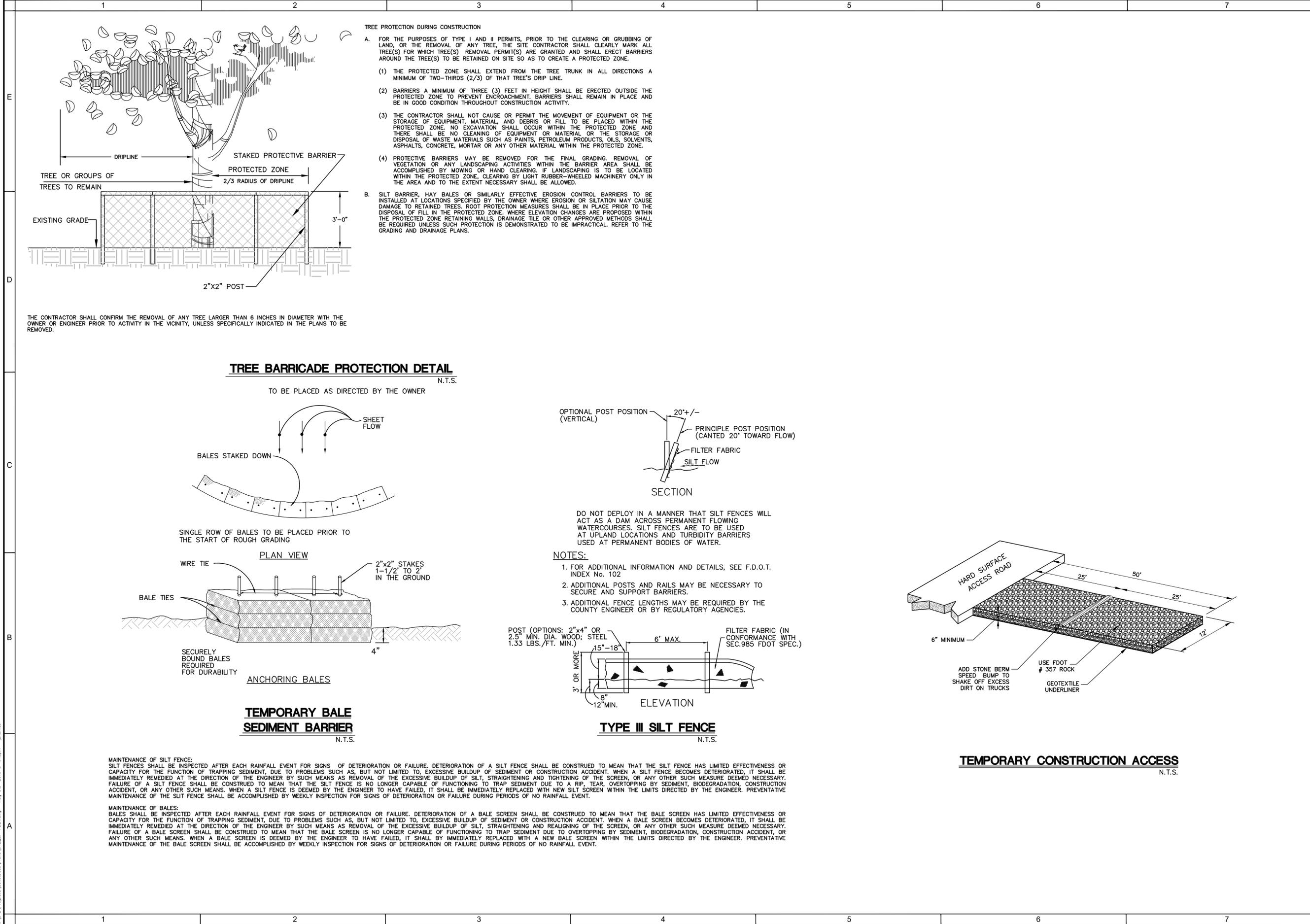
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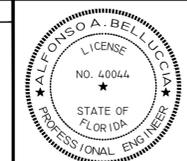
PLAN SET DATE  
**AUG 1, 2016**

SHEET  
**8 OF 39**



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PROJECT NO.	2016-0009
DATE	7-22-2016
DESIGNER	AVS
CHECKER	AVS
DATE	7-22-2016
PROJECT NAME	CYPRESS POINT
SHEET NAME	PAVING, GRADING, AND DRAINAGE PLANS (1)
NO.	
DATE	
REVISED	
BY	
DATE	

DESIGNED FOR  
**CYPRESS POINTE FL, LLC**  
1325 MILLERSPORT HWY., SUITE 209  
WILLIAMSVILLE, NEW YORK 14221  
PH: 716-247-5289

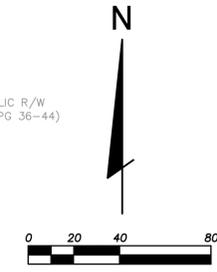
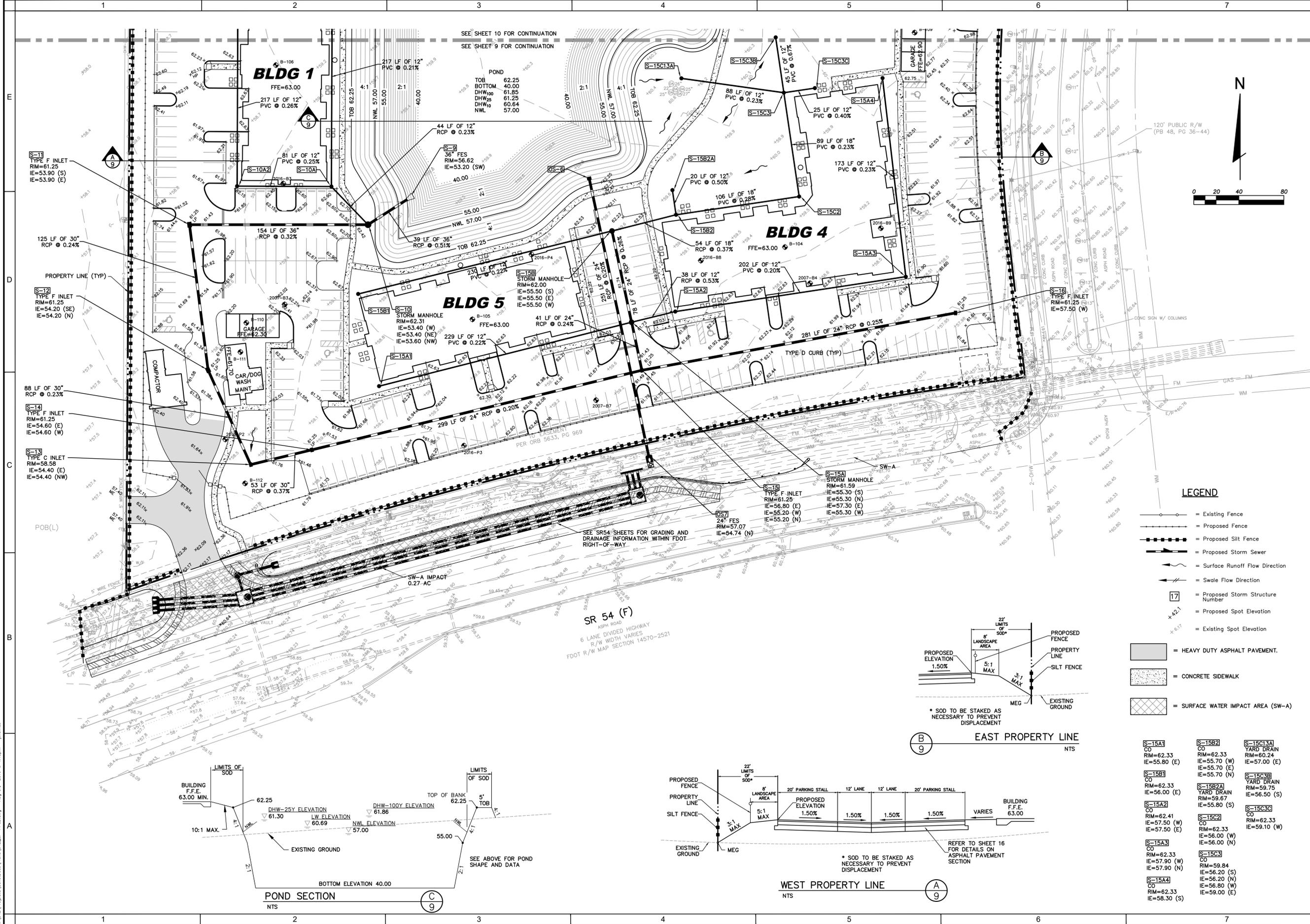
PROJECT NAME  
**CYPRESS POINTE**

SHEET NAME  
**PAVING, GRADING, AND DRAINAGE PLANS (1)**

**FLORIDA DESIGN CONSULTANTS, INC.**  
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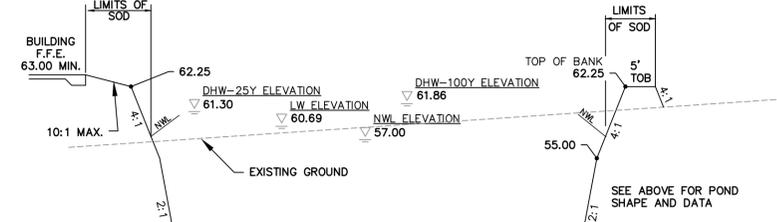
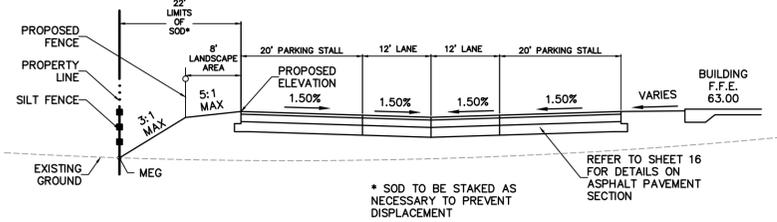
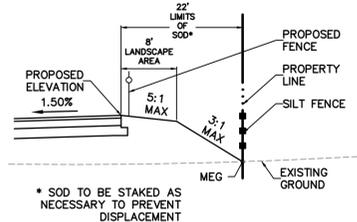
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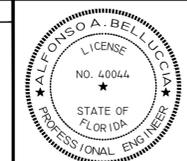


**LEGEND**

- = Existing Fence
- = Proposed Fence
- = Proposed Silt Fence
- = Proposed Storm Sewer
- = Surface Runoff Flow Direction
- = Swale Flow Direction
- = Proposed Storm Structure Number
- = Proposed Spot Elevation
- = Existing Spot Elevation
- = HEAVY DUTY ASPHALT PAVEMENT.
- = CONCRETE SIDEWALK
- = SURFACE WATER IMPACT AREA (SW-A)



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PROJECT NO.	2016-0009
DATE	7-22-2016
DESIGNER	AVS
CHECKER	AVS
DATE	7-22-2016
SCALE	AS SHOWN
PROJECT NAME	CYPRESS POINT
SHEET NO.	10
TOTAL SHEETS	39

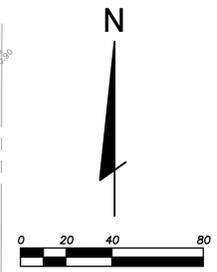
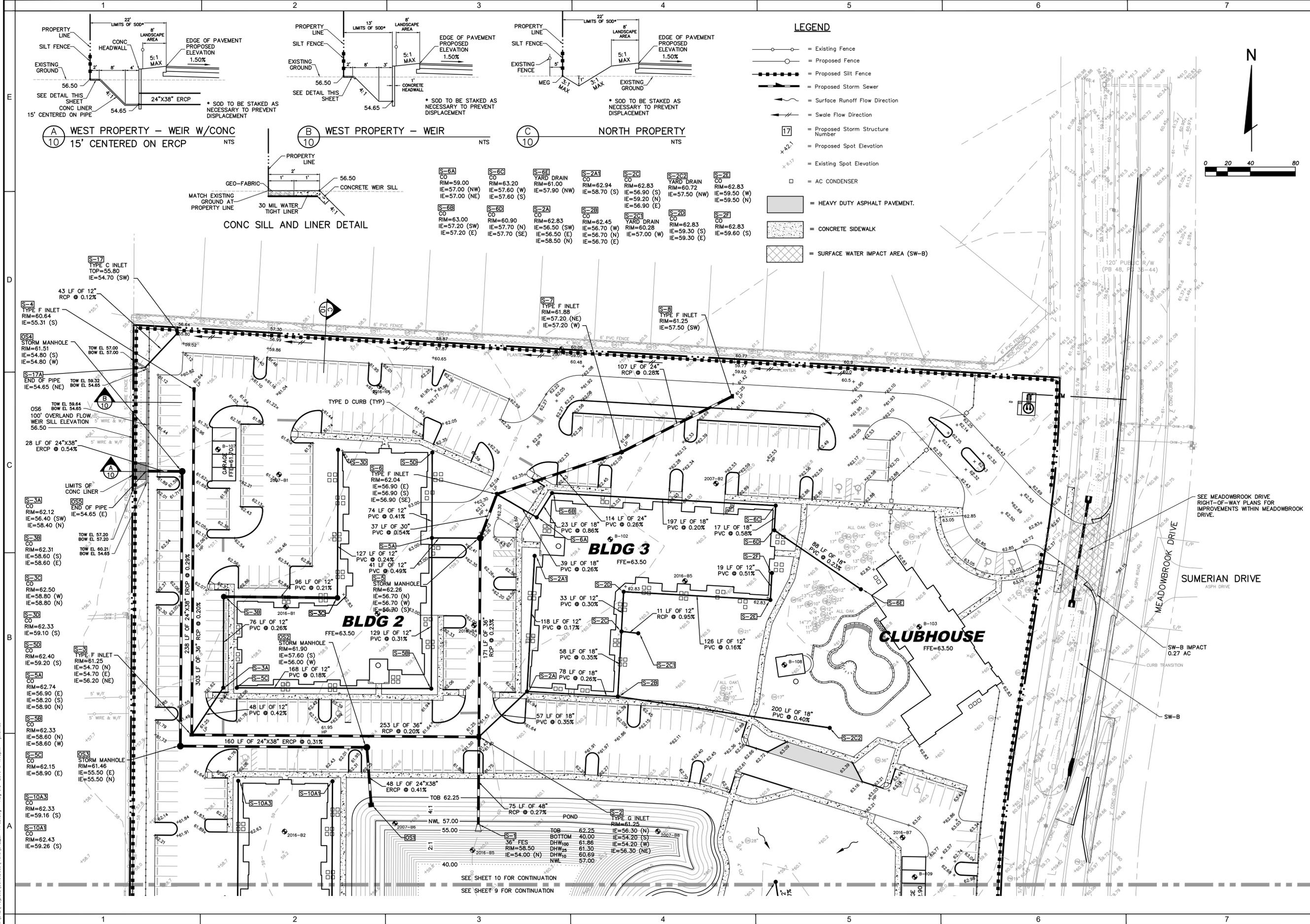
DESIGNED FOR  
**CYPRESS POINTE FL, LLC**  
1325 MILLERSPORT HWY., SUITE 209  
WILLIAMSVILLE, NEW YORK 14221  
PH: 716-247-5289

PROJECT NAME  
**CYPRESS POINTE**

SHEET NAME  
**PAVING, GRADING, AND DRAINAGE PLANS (2)**

FOR  
**FLORIDA DESIGN CONSULTANTS, INC.**  
— THINK IT, ACHIEVE IT. —

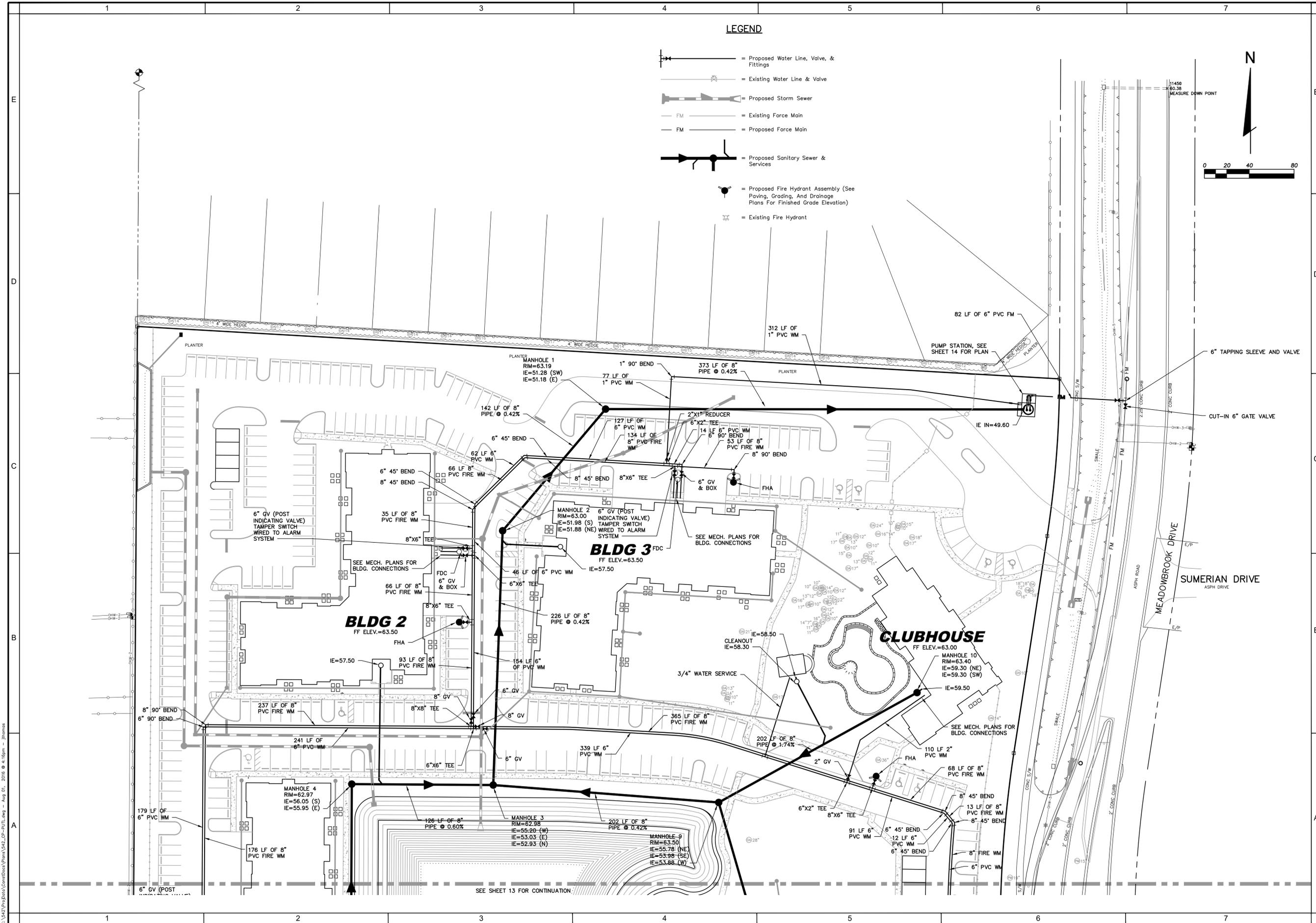
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PHONE: (800) 532-1047 FAX: (727) 848-3648 WWW.FLDESIGN.COM C.A. NO. 7421



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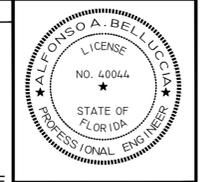






**LEGEND**

- = Proposed Water Line, Valve, & Fittings
- = Existing Water Line & Valve
- = Proposed Storm Sewer
- = Existing Force Main
- = Proposed Force Main
- = Proposed Sanitary Sewer & Services
- = Proposed Fire Hydrant Assembly (See Paving, Grading, And Drainage Plans For Finished Grade Elevation)
- = Existing Fire Hydrant



PROJECT NO.	2016-009
DATE	7-22-2016
DESIGNER	AVS
CHECKED	AVS
DATE	7-22-2016
PROJECT NAME	CYPRESS POINTE
SHEET NAME	UTILITY PLANS (2)

DESIGNED FOR  
**CYPRESS POINTE FL, LLC**  
 1325 MILLERSPORT HWY., SUITE 209  
 WILLIAMSVILLE, NEW YORK 14221  
 PH: 716-247-5289

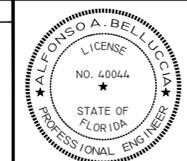
**FLORIDA DESIGN CONSULTANTS, INC.**  
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 PHONE: (800) 532-1047 FAX: (727) 848-3648 WWW.FLDESIGN.COM C.A. NO. 7421

PLAN SET DATE  
**AUG 1, 2016**

SHEET  
**13 OF 39**

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PROJECT NO.	2016-0009
DATE	7-22-2016
DESIGNER	AVS
CHECKED	AVS
DATE	
NO.	

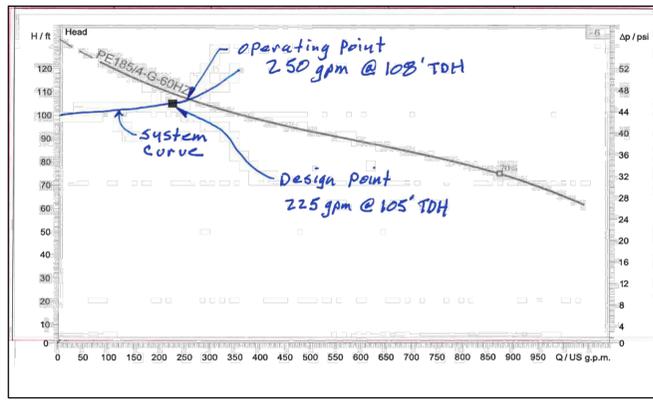
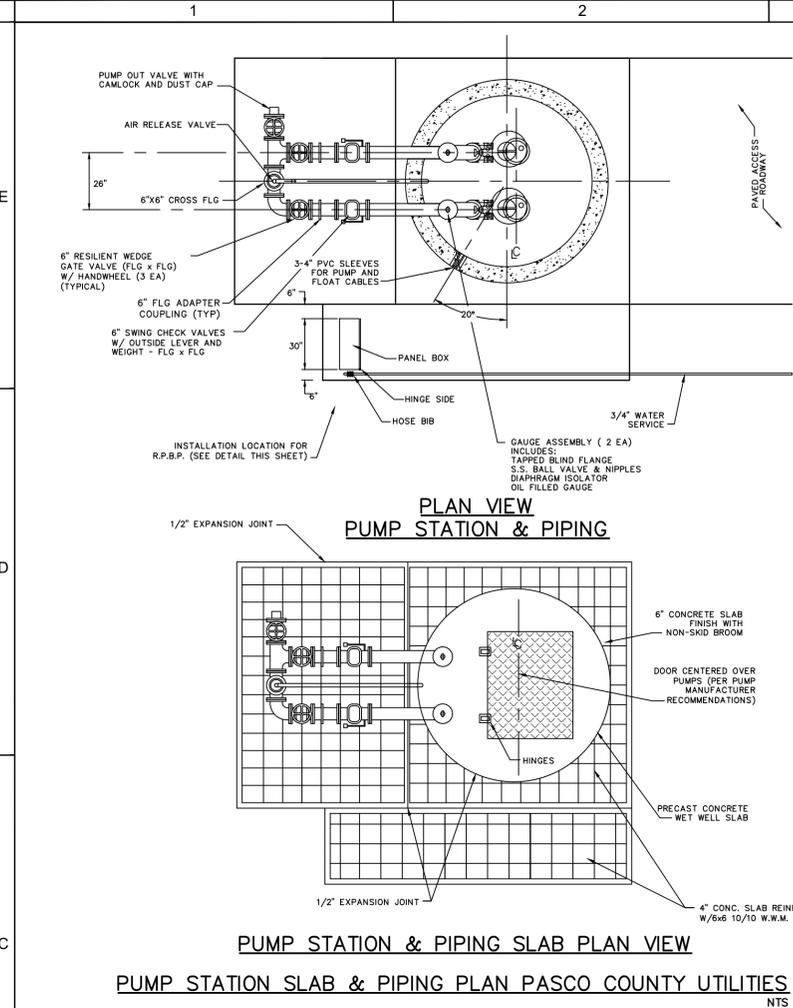
DESIGNED FOR  
**CYPRESS POINTE FL, LLC**  
 1325 MILLERSPORT HWY., SUITE 209  
 WILLIAMSVILLE, NEW YORK 14221  
 PH: 716-247-5289

PROJECT NAME  
**CYPRESS POINTE**

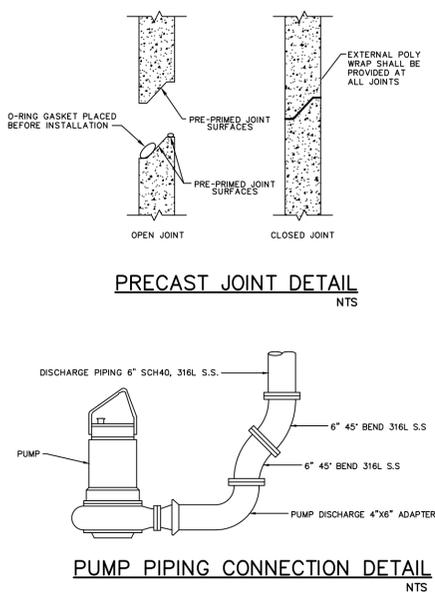
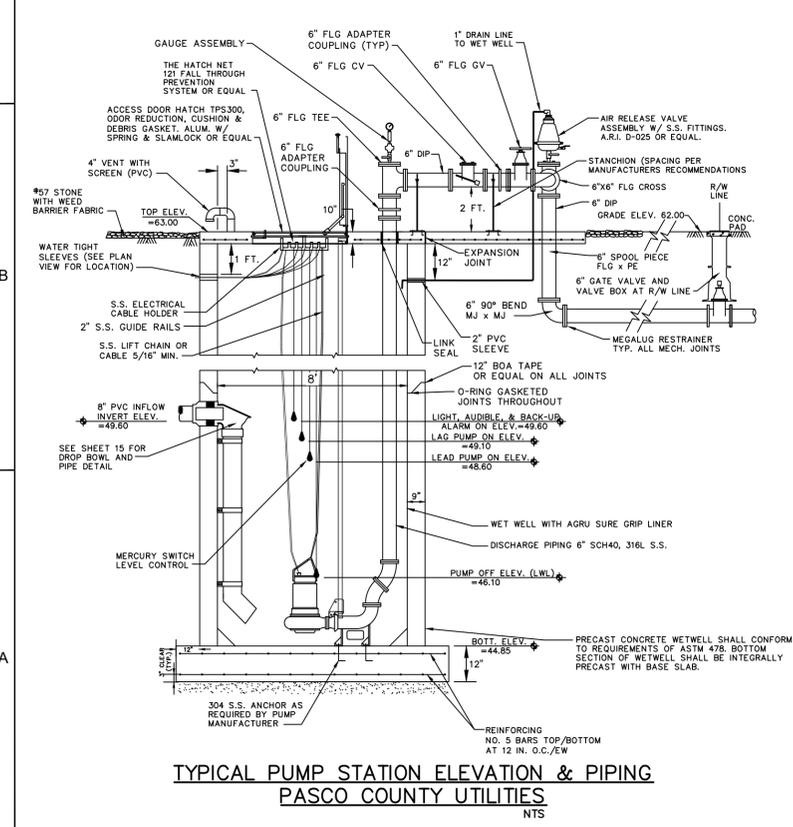
SHEET NAME  
**SANITARY SEWER PUMP STATION PLANS (1)**

FLORIDA DESIGN  
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 PHONE: (800) 532-1047 FAX: (727) 848-3648 WWW.FLDESIGN.COM C.A. NO. 7421



PUMP CURVE DETAIL



PRECAST JOINT DETAIL

PUMP PIPING CONNECTION DETAIL

DESIGN DATA

**FLOW**  
 UNITS 252 RESIDENTIAL  
 COMMERCIAL N/A  
 OFFICE N/A  
 AVERAGE DAILY FLOW 39 GPM  
 DESIGN (PEAK) FLOW 148 GPM  
 STATIC HEAD LOSS 19 FEET  
 FRICTION HEAD LOSS 3 FEET  
 PLUS MANIFOLD HEAD 81.0 FEET  
 TOTAL DYNAMIC HEAD 105.0 FEET

**DESIGN FLOW**  
 225 GPM @ 105' TDH

**PUMP**  
 MAKE ABS XFP  
 MODEL 100G CB-1 PE 185/4  
 IMPELLER 260 MM  
 MOTOR 25 HP, 1800 RPM  
 208V, 3 PHASE, 60 HZ

**SOLIDS** 4"  
 OPERATING POINT 250 GPM @ 108 TDH

**PIPING**  
 PUMP DISCHARGE SIZE = 4"  
 WET WELL PIPING = 6"  
 FORCE MAIN SIZE = 6"

**WELL**  
 INSIDE DIA. OF WET WELL 8'  
 TOP ELEVATION 63.00  
 BOTTOM ELEVATION 44.85  
 INVERT ELEVATION 49.60  
 C.Y. OF BALLAST REQ'D. 6 CY

**ALARMS**  
 BACK-UP AUDIBLE ALARM ON EL. 49.60  
 AUDIBLE ALARM ON EL. 49.60  
 LIGHT ON EL. 49.60  
 LAG PUMP ON EL. 49.10  
 LEAD PUMP ON EL. 48.60  
 PUMP OFF EL. (LWL) 46.10

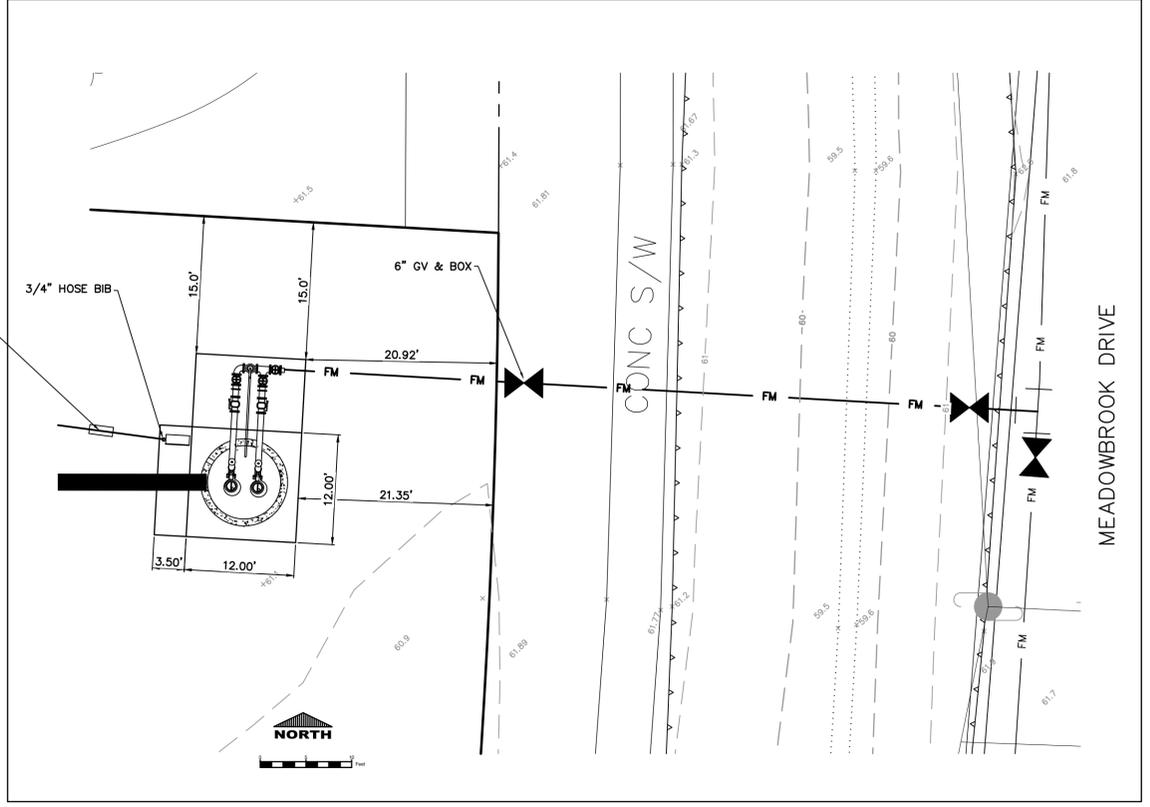
**WET WELL HATCH OPENING**  
 FROM MANUFACTURER  
 WITH SAFETY NET

**TOP SLAB**  
 AS SHOWN w/EXP JOINTS

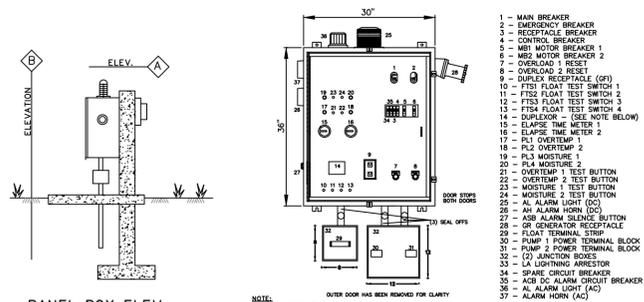
GENERAL NOTES:

- ALL PIPING WITHIN THE WETWELL (LARGER THAN 4") AND ALL ABOVE GROUND PIPING SHALL BE MANUFACTURED FLANGED PIPE. FIELD FABRICATED FLANGES (UNI-FLANGE OR MEGAFLANGE) WILL NOT BE PERMITTED.
- ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE PROVIDED WITH CERAMIC EPOXY INTERIOR LINING (PROTECTO 401), UNLESS PIPING IS STAINLESS STEEL.
- ALL UNDERGROUND FITTINGS SHALL BE RESTRAINED MECHANICAL JOINT AND SHALL BE PROVIDED WITH PROTECTO 401 INTERIOR LINING.
- IF LIFT CABLES ARE USED, LIFTING RINGS SHALL BE PROVIDED EVERY 4 FT.
- INDIVIDUAL WALL PENETRATION SLEEVES SHALL BE PROVIDED FOR EACH PUMP CABLE.
- ALL HARDWARE (INCLUDING FLANGE BOLTS & NUTS) SHALL BE STAINLESS STEEL.
- ALL ABOVE GROUND PIPING SHALL BE PAINTED SAFETY GREEN.
- SLAB ELEVATION SHALL BE 12 IN. ABOVE C/L OF ROADWAY OR 12 IN. ABOVE 100 YEAR FLOOD PLAN - WHICHEVER IS HIGHER.
- TECHNICAL SPECIFICATIONS SHALL BE MOST CURRENT COPY OF PASCO COUNTY'S - STANDARDS FOR DESIGN AND CONSTRUCTION OF WATER AND WASTEWATER FACILITIES.
- POSITION PANEL BOX SO OPERATOR'S BACK IS NOT TO WET WELL WHILE PAGING BOX. PANEL BOX SHALL BE LOCATED TO ALLOW UNOBSTRUCTED ACCESS TO WET WELL BY EQUIPMENT UTILIZING PAVED ACCESS ROAD. (SEE PLAN VIEW FOR ACTUAL LOCATION.)
- THE CONTROL CIRCUITRY SHALL PROVIDE FOR ALTERNATING OPERATION OF THE LEAD PUMP UNDER NORMAL CONDITIONS. PASCO COUNTY STANDARDS FOR DESIGN AND CONSTRUCTION OF WATER, WASTEWATER, AND RECLAIMED WATER FACILITIES, JUNE 1995.
- CONTRACTOR SHALL PREVENT FLOTATION OF PUMP STATION DURING ALL PHASES OF CONSTRUCTION. SEE DESIGN DATA, C.Y. OF BALLAST REQUIRED.
- PUMP STATION SHALL BE EQUIPPED WITH AN EFFECTIVE METHOD FOR DETECTING SHAFT SEAL FAILURE OR POTENTIAL SEAL FAILURE. PUMPS SHALL BE PROVIDED WITH SEAL FAILURE PROBES THAT WILL CAUSE A RED LIGHT TO TURN ON AT THE CONTROL PANEL.
- EMERGENCY BACK-UP BATTERY OPERATED AUDIO ALARM SYSTEM WITH INDEPENDENT FLOAT SHALL BE PROVIDED AS REQUIRED BY PASCO COUNTY UTILITIES DEPARTMENT.
- AREAS WITHIN THE PUMP STATION TRACT SHALL BE COVERED WITH 4" OF #57 STONE. STONE SHALL BE INCLUDED WITH THE PUMP STATION COSTS.
- ALL UNDERGROUND PIPING, ELECTRIC, WATER SERVICE, ETC., SHALL BE WITHIN THE PUMPING STATION TRACT/PARCEL AS DESIGNATED ON THE PLANS.
- THE DEVELOPER'S GEOTECHNICAL ENGINEER SHALL PROVIDE THE WET WELL FOUNDATION DESIGN.
- DISCHARGE PIPING WITHIN THE WETWELL SHALL BE SCH 40, 316 L S.S. MANUFACTURED FLANGED PIPE. FIELD FABRICATED FLANGES (UNI-FLANGE OR MEGAFLANGE) WILL NOT BE PERMITTED.

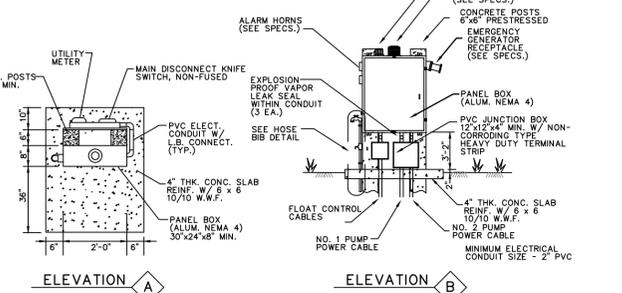
NOTE: B.F.E. (100 YR.) = 61.75  
 TOP OF LIFT STATION SHALL BE 12"  
 ABOVE THE 100 YR B.F.E. EL. OR 12"  
 ABOVE CENTERLINE OF ROAD, (61.30)  
 WHICHEVER IS GREATER.



K:\3\A\Proj\03\Cons\Draw\Plan\542\_CP-PUMPSTATION.dwg - Aug 01, 2016 @ 4:17pm - jrhomas



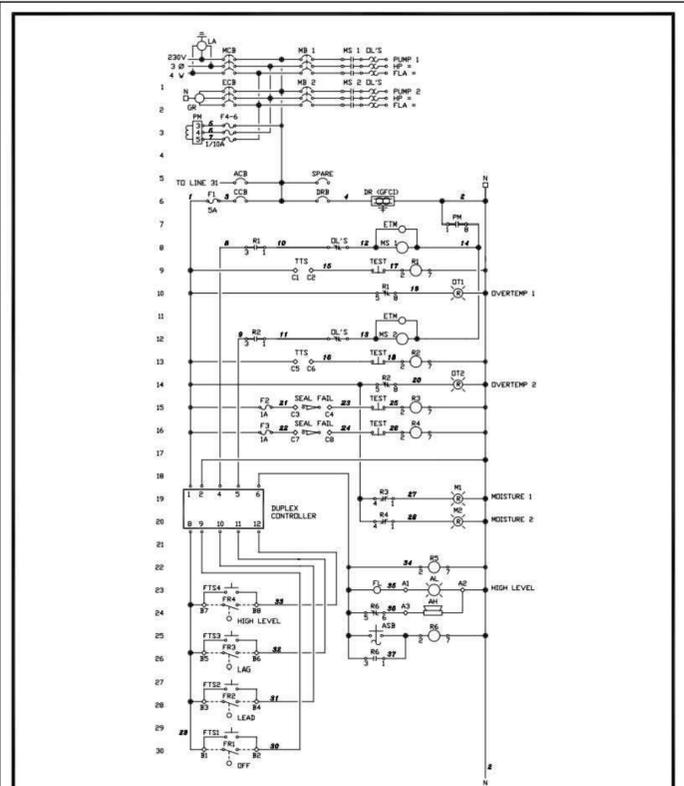
- 1 - MAIN BREAKER**  
**2 - EMERGENCY BREAKER**  
**3 - RECEPTACLE BREAKER**  
**4 - CONTROL BREAKER**  
**5 - MBI MOTOR BREAKER 1**  
**6 - MBI MOTOR BREAKER 2**  
**7 - OVERLOAD 1 RESET**  
**8 - OVERLOAD 2 RESET**  
**9 - OVERLOAD 1 TEST SWITCH (OTS)**  
**10 - FTSS FLOAT TEST SWITCH 1**  
**11 - FTSS FLOAT TEST SWITCH 2**  
**12 - FTSS FLOAT TEST SWITCH 3**  
**13 - FTSS FLOAT TEST SWITCH 4**  
**14 - DUPLEXOR - (SEE NOTE BELOW)**  
**15 - ELAPSE TIME METER 1**  
**16 - ELAPSE TIME METER 2**  
**17 - PL2 OVERTEMP 1**  
**18 - PL2 OVERTEMP 2**  
**19 - PL3 OVERTEMP 1**  
**20 - PL4 OVERTEMP 1**  
**21 - OVERTEMP 1 TEST BUTTON**  
**22 - OVERTEMP 2 TEST BUTTON**  
**23 - OVERTEMP 3 TEST BUTTON**  
**24 - MOISTURE TEST BUTTON**  
**25 - ALARM LIGHT (DC)**  
**26 - AH ALARM LIGHT (DC)**  
**27 - ASB ALARM SILENCE BUTTON**  
**28 - GP GENERATOR RECEPTACLE**  
**29 - FLOAT TERMINAL STRIP**  
**30 - PUMP 1 POWER TERMINAL BLOCK**  
**31 - PUMP 2 POWER TERMINAL BLOCK**  
**32 - (2) JUNCTION BOXES**  
**33 - LA LIGHTNING ARRESTOR**  
**34 - SPARE CIRCUIT BREAKER**  
**35 - AL ALARM LIGHT (AC)**  
**36 - AL ALARM LIGHT (AC)**  
**37 - ALARM HORN (AC)**



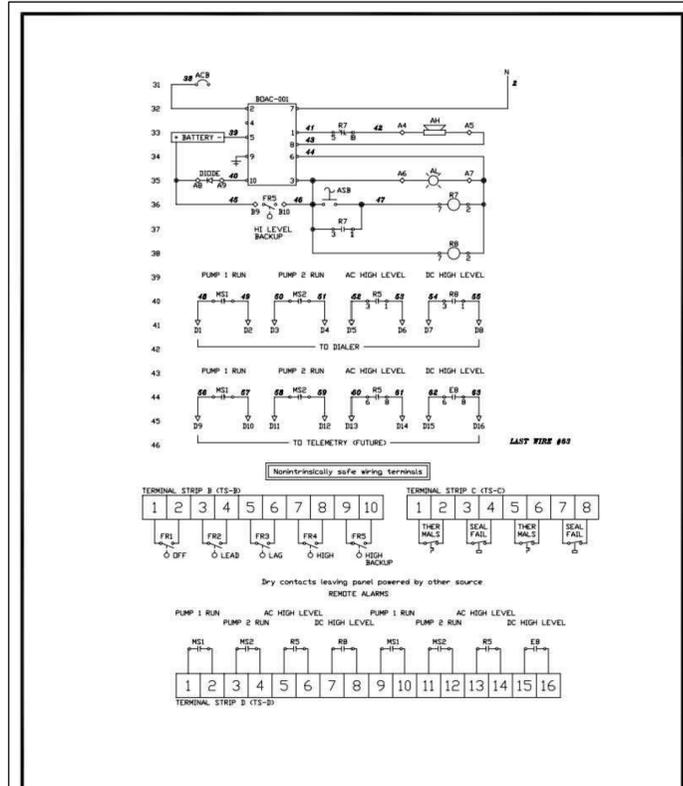
**PHASE MONITOR:**  
 A PHASE-LOSS/IMBALANCE/REVERSAL UNDER VOLTAGE PROTECTION ASSEMBLY SHALL BE FURNISHED WITH ADJUSTABLE NOMINAL VOLTAGE SETTINGS AND THREE LINE VOLTAGE FUSES. THIS DEVICE SHALL DROPOUT PUMPS IF ALL PHASES DROP BELOW 90% OR IF ONE PHASE DROPS BELOW 80-83% NOMINAL VOLTAGE. THIS DEVICE SHALL HAVE A 1/2 SECOND DROPOUT DELAY.

**LIGHTNING ARRESTOR:**  
 A LIGHTNING ARRESTOR SHALL BE SUPPLIED IN THE CONTROL PANEL AND CONNECTED TO EACH LINE OF THE INCOMING SIDE OF THE POWER INLET TERMINALS. THE ARRESTOR SHALL PROTECT THE CONTROLS AGAINST DAMAGE DUE TO LIGHTNING STRIKES ON THE INCOMING POWER LINE.

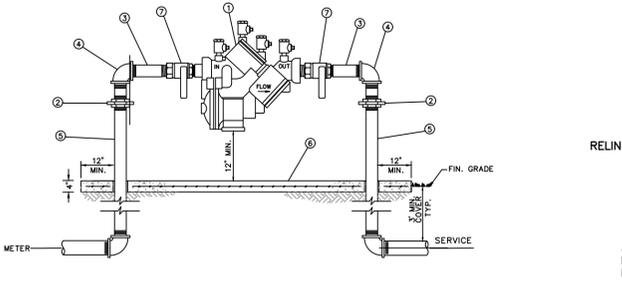
**STANDARD PUMP STATION (DUPLX) PANEL BOX ELEVATION & COMPONENT LAY-OUT**  
 PASCO COUNTY UTILITIES



CREATED 02/24/03  
 REVISED \_\_\_\_\_  
 STANDARD PUMP STATION WIRING DIAGRAM (1 OF 2)  
 PASCO COUNTY UTILITIES  
 PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.  
 DETAIL 51



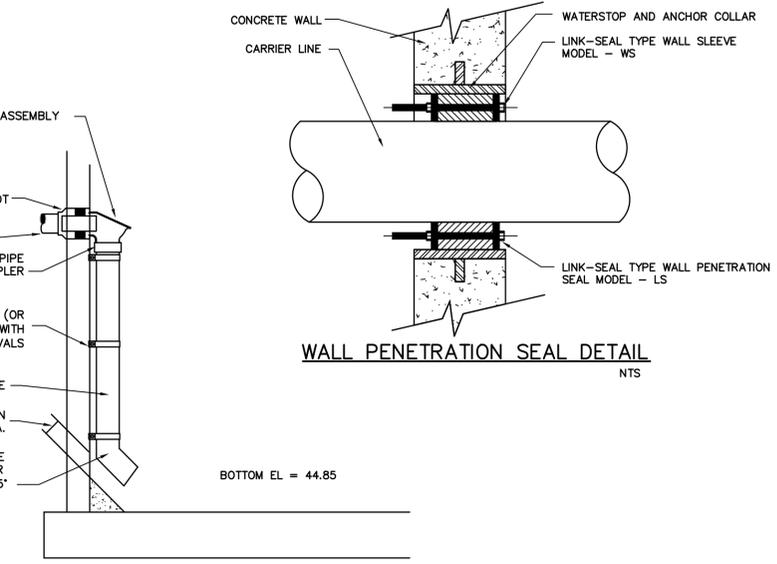
CREATED 02/24/03  
 REVISED \_\_\_\_\_  
 STANDARD PUMP STATION WIRING DIAGRAM (2 OF 2)  
 PASCO COUNTY UTILITIES  
 PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.  
 DETAIL 52



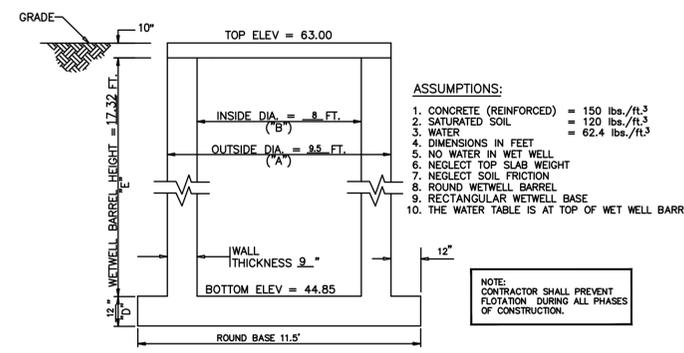
ITEM	QUANT.	DESCRIPTION
1	1	BACKFLOW PREVENTER ASSEMBLY, REDUCED PRESSURE ZONE
2	2	UNIONS - GALV.
3	2	NIPPLES - BRASS
4	2	ELBOWS - GALV, 90°
5	2	RISER - GALV.
6	1	CONCRETE SLAB
7	2	BALL VALVES - BRASS OR S.S. (PROVIDED WITH BFP ASS'Y)

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.

**REDUCED PRESSURE BACKFLOW PREVENTER DETAIL**  
 SINGLE SERVICE: 3/4", 1-1/2", 2"  
 NTS



**PUMP STATION WET WELL INSIDE DROP PIPE DETAIL**  
 NTS



**ASSUMPTIONS:**

1. CONCRETE (REINFORCED) = 150 lbs./ft.<sup>3</sup>
2. SATURATED SOIL = 120 lbs./ft.<sup>3</sup>
3. WATER = 62.4 lbs./ft.<sup>3</sup>
4. DIMENSIONS IN FEET
5. NO WATER IN WET WELL
6. NEGLECT TOP SLAB WEIGHT
7. NEGLECT SOIL FRICTION
8. ROUND WETWELL BARREL
9. RECTANGULAR WETWELL BASE
10. THE WATER TABLE IS AT TOP OF WET WELL BARREL

NOTE: CONTRACTOR SHALL PREVENT FLOTATION DURING ALL PHASES OF CONSTRUCTION.

(1) BARREL WEIGHT =  $[(A)^2 - (B)^2] (\pi/4)(E)(150) = [(9.50)^2 - (8)^2] (\pi/4)(17.32)(150) = 53,561 \text{ lb.}$

(2) BOTTOM SLAB WEIGHT =  $\pi (11.5)^2/4 (1') (150) = 15,580 \text{ lb.}$

(3) SOIL WEIGHT =  $[(11.5)^2 - (8.5)^2] (\pi/4) (17.32) (120 - 62.4) = 32,908 \text{ lb.}$

(4) TOTAL WEIGHT = (1) + (2) + (3) = (53,561) + (15,580) + (32,908) = 102,049 lb.

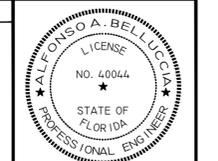
(5) WEIGHT OF WATER DISPLACED =  $[(8.5)^2 (\pi/4) (17.32) + (11.5)^2 (\pi/4) (1')] (62.4) = 83,086 \text{ lb.}$

SAFETY FACTOR =  $\frac{\text{TOTAL WEIGHT}}{\text{WT. OF WATER DISPLACED}} = \frac{102,049 \text{ lb.}}{83,086 \text{ lb.}} = 1.22$

FOR SAFETY FACTOR OF 1.5 ADD 6 CY CONCRETE BALLAST =  $102,049 + (27)(150) = 126,349 \text{ lb.}$

$\frac{126,349 \text{ lb.}}{83,086 \text{ lb.}} = 1.50$   
 USE 6 CY

**FLOTATION CALCULATIONS - CONCRETE WET WELL**  
 NTS



PROJECT NO.	2016-0009
DATE	5/4/2016
DESIGNED BY	AVS
CHECKED BY	AVS
DATE	7-22-2016
PROJECT NAME	CYPRESS POINTE
SHEET NO.	39
TOTAL SHEETS	39

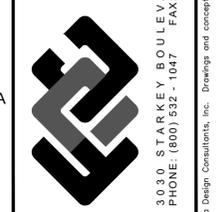
DESIGNED FOR  
**CYPRESS POINTE FL, LLC**  
 1325 MILLERSPORT HWY., SUITE 209  
 WILLIAMSVILLE, NEW YORK 14221  
 PH: 716-247-5289

PROJECT NAME  
**CYPRESS POINTE**

SHEET NAME  
**SANITARY SEWER PUMP STATION PLANS (2)**

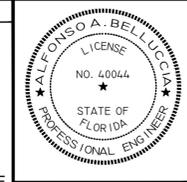
**FLORIDA DESIGN CONSULTANTS, INC.**  
 THINK IT, ACHIEVE IT.

3030 STARKEY BOULEVARD, NEW PORT RICHEY, FLORIDA 34655  
 PHONE: (800) 532-1047 FAX: (727) 848-3648 WWW.FLDESIGN.COM C.A. NO. 7421









PROJECT NO.	2016-009
DATE	5/42
ISSUED	7-22-2016
DESIGNED BY	AVS
CHECKED BY	AVS
DATE	8/1
BY	AB

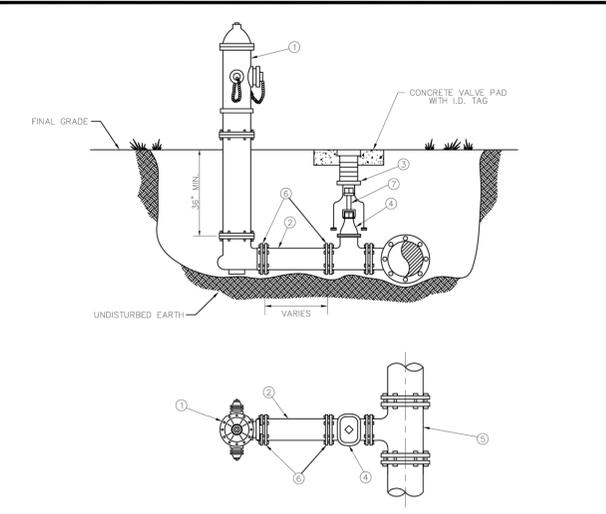
DESIGNED FOR  
**CYPRESS POINTE FL, LLC**  
1325 MILLERSPORT HWY., SUITE 209  
WILLIAMSVILLE, NEW YORK 14221  
PH: 716-247-5289

PROJECT NAME  
**CYPRESS POINTE**

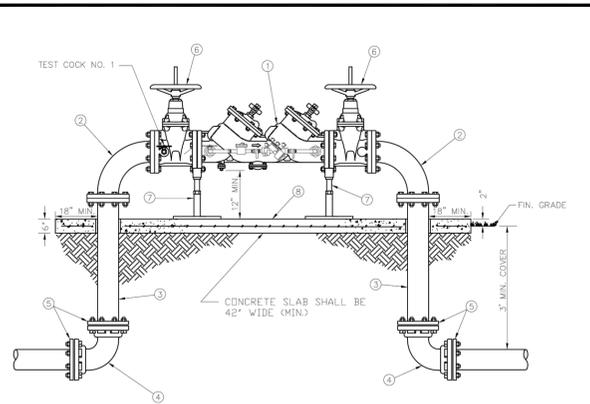
SHEET NAME  
**UTILITY DETAILS (1)**

**FLORIDA DESIGN CONSULTANTS, INC.**  
— THINK IT, ACHIEVE IT. —

3030 STARKEY BOULEVARD, NEW PORT RICHEY, FLORIDA 34655  
PHONE: (800) 532-1047 FAX: (727) 848-3648 WWW.FLDESIGN.COM C.A. NO. 7421

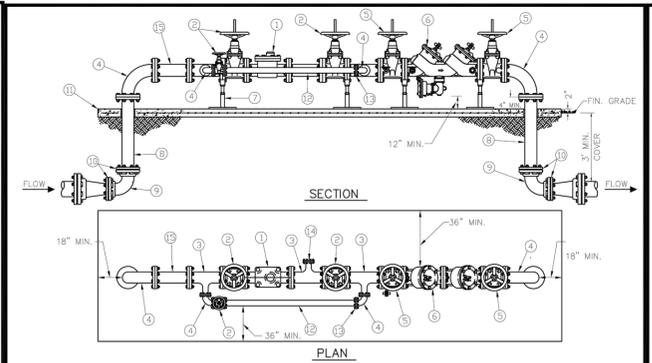


ITEM	QUANT.	DESCRIPTION
1	1	HYDRANT, FIRE (S 1/2\"/>



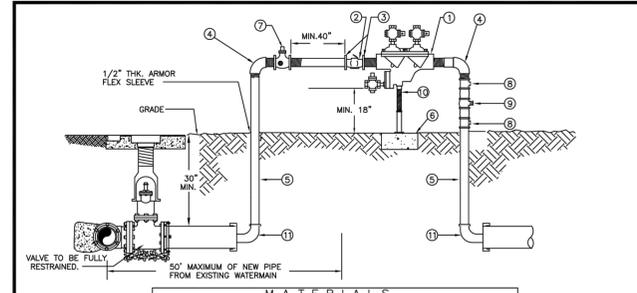
ITEM	QUANT.	DESCRIPTION
1	1	3\", 4\", 6\", 8\"/>

NOTE:  
- NO THE RODS OR EYE BOLT RETAINERS PERMITTED ABOVE GROUND.  
- B.F.P. ASSEMBLY TO BE INSTALLED LEVEL & PLUMB.  
- MINIMUM CLEARANCE OF 36\"/>



ITEM	QUANT.	DESCRIPTION
1	1	WATER METER 3\"/>

NOTE:  
- NO THE RODS OR EYE BOLT RETAINERS PERMITTED ABOVE GROUND.  
- METER & B.F.P. ASSEMBLY TO BE INSTALLED LEVEL & PLUMB.  
- METER BY-PASS TO BE SIZED NO LESS THAN 1/2\"/>



ITEM	QUANT.	DESCRIPTION
1	1	2\"/>

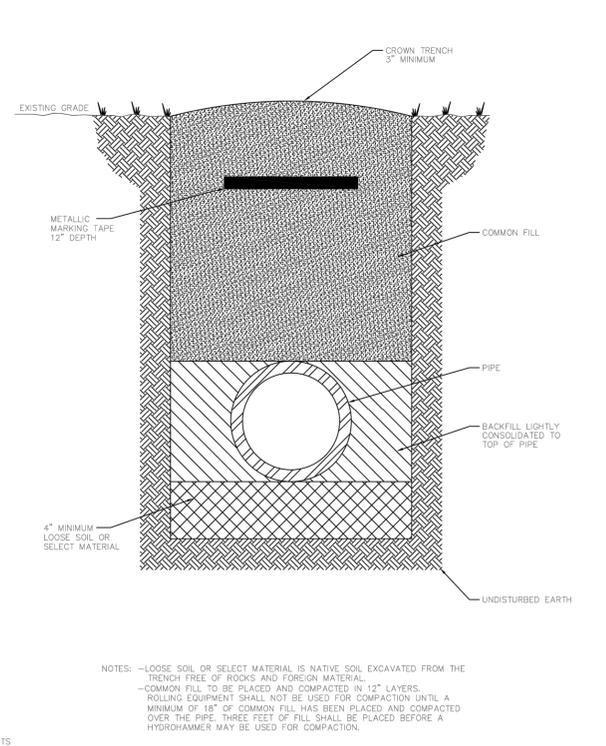
NOTE - CONTRACTOR/CUSTOMER SHALL APPLY AT PASCO COUNTY UTILITIES CUSTOMER SERVICE FOR TEMPORARY WATER SERVICE AT LEAST THREE DAYS PRIOR TO REQUIRED SERVICE DATE.  
- THE METER WILL BE FURNISHED, INSTALLED AND INITIAL READING TAKEN BY PASCO COUNTY UTILITIES.  
- ALL FITTINGS, PIPING, VALVES AND MATERIALS INCLUDING THE PASCO COUNTY APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR/CUSTOMER.

CREATED	11/18/05	TEMPORARY CONSTRUCTION WATER SERVICE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVIS		PASCO COUNTY UTILITIES	DETAIL 01

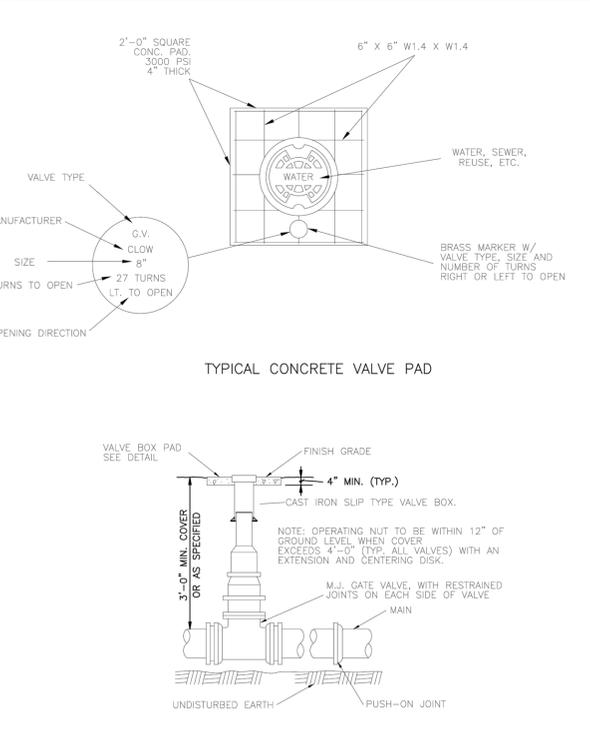
CREATED	02/24/03	FIRE HYDRANT PERPENDICULAR TO THE MAIN	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVIS		PASCO COUNTY UTILITIES	DETAIL 27

CREATED	02/24/03	DOUBLE DETECTOR CHECK VALVE ASSEMBLY/BACKFLOW PREVENTER (SINGLE SERVICE: 3\", 4\", 6\", 8\", 10\")	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVIS		PASCO COUNTY UTILITIES	DETAIL 10

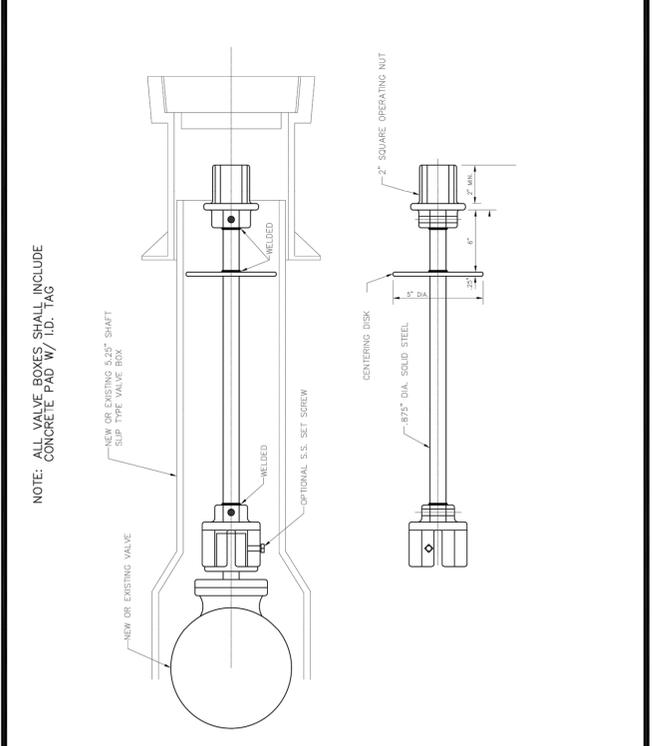
CREATED	02/24/03	BULK METER INSTALLATION - WITH SINGLE B.F.P.	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVIS		PASCO COUNTY UTILITIES	DETAIL 02



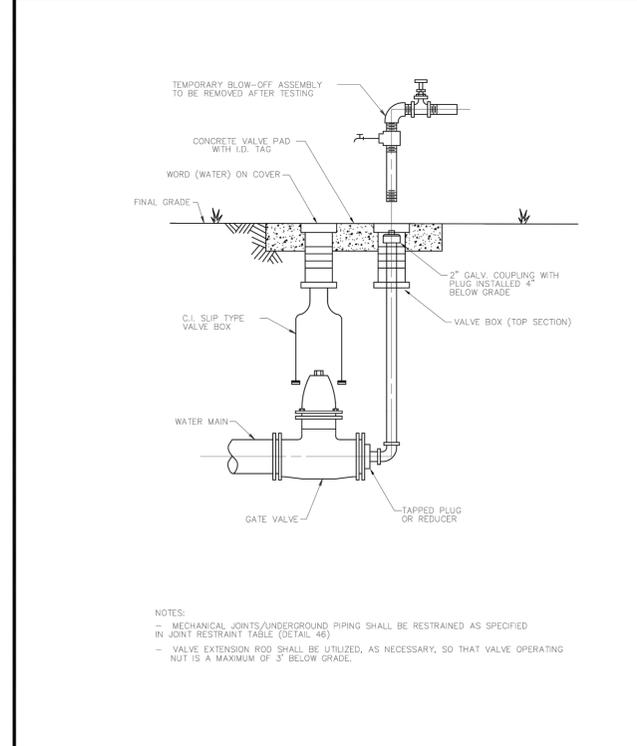
CREATED	02/24/03	PIPE LAYING CONDITIONS STANDARD UNPAVED AREAS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVIS		PASCO COUNTY UTILITIES	DETAIL 35



CREATED	02/24/03	VALVE BOX DETAIL SLIP TYPE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVIS		PASCO COUNTY UTILITIES	DETAIL 30



CREATED	02/24/03	VALVE EXTENSION RODS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVIS		PASCO COUNTY UTILITIES	DETAIL 29



CREATED	02/24/03	PERMANENT BLOW-OFF DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVIS		PASCO COUNTY UTILITIES	DETAIL 28

**RESTRAINED JOINT NOTES:**

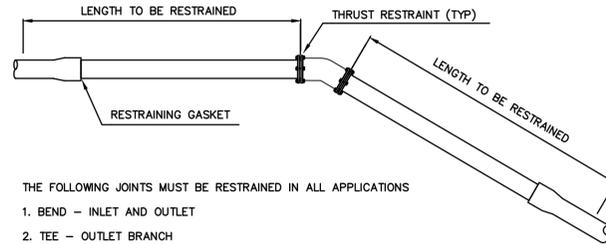
- THE PROGRAM, "THRUST RESTRAINT" DISTRIBUTED BY THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) WAS USED TO CALCULATE THE LENGTH OF RESTRAINED JOINTS BASED ON TYPE 3 STANDARD ANSI/AWWA C150/A21.50 LAYING CONDITIONS FOR DUCTILE IRON PIPE, SANDY/SILTY SOIL, 3.0 FT. MINIMUM COVERAGE AND 150 PSI OPERATING PRESSURE. APPROPRIATE ADJUSTMENT MUST BE MADE FOR DEVIATIONS FROM THESE ASSUMPTIONS.
- SELECTED COMMON FILL FROM ORIGINAL EXCAVATION, SEE SPECIFICATIONS.
- USE OF ALTERNATE TYPES OF PIPE BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENGINEER.
- FOR COMBINED BENDS FORMING OFFSETS, THE LENGTHS QUOTED SHALL BE DOUBLED AND PROVIDED EACH SIDE OF THE CENTROID OF THE OFFSET.
- VALVES LOCATED NEAR BENDS OR TEES SHALL TAKE ACCOUNT OF ADDITIONAL PASSIVE SOIL RESISTANCE.
- WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION, DEWATER AS NECESSARY.
- EXISTING CONCRETE/ASPHALT PAVEMENT SURFACE AND BASE SHALL BE CUT SQUARE WITH CONCRETE SAW.
- ALL FITTINGS AND VALVES SHALL BE MECHANICALLY RESTRAINED. IN ADDITION TO THE FITTING BEING RESTRAINED, THE MINIMUM LINEAR FEET TO BE RESTRAINED ON BOTH SIDES OF THE FITTING SHALL BE AS SHOWN IN THE TABLE UNLESS OTHERWISE NOTED. THE RESTRAINED JOINT LENGTHS FOR DUCTILE IRON PIPE ARE AS SHOWN. APPROPRIATE ADJUSTMENTS MUST BE MADE FOR PIPE MATERIALS OTHER THAN DUCTILE IRON. ANY DEVIATIONS FROM THIS CRITERIA SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.
- IF THE PIPE IS DEFLECTED IN LIEU OF FITTINGS, THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE 75% OF THE MANUFACTURER'S RECOMMENDED DEFLECTION, FOR THE JOINT TYPE USED.
- NUMBERS IN PARENTHESES REPRESENT LINEAL FEET OF RESTRAINT FOR POLY WRAPPED DIP AND FOR PVC PIPE

**REDUCERS**

	4"	6"	8"	12"	16"	18"	20"	24"	30"
L	6" 31(44)								
A	8" 55(79)	32(46)							
R	12" 94(134)	79(113)	57(82)						
G	16" 117(166)	101(144)	59(84)						
E	18" 120(171)	83(118)	31(44)						
E	20" 104(149)	58(83)	31(44)	58(83)					
N	24" 143(204)	106(151)	83(119)	58(83)					
D	30" 163(232)	145(207)	126(180)	81(115)					
D	36" 181(258)	145(207)	181(258)	145(207)	80(114)				
D	48" 266(381)	241(345)	196(280)						

**REDUCER RESTRAINED JOINTS (150 psi)**

MINIMUM LINEAR FEET OF BRANCH PIPE TO BE RESTRAINED FROM JOINT AT TEE.



THE FOLLOWING JOINTS MUST BE RESTRAINED IN ALL APPLICATIONS

- BEND - INLET AND OUTLET
- TEE - OUTLET BRANCH
- OFFSETS - INLET AND OUTLET
- CAPS
- PLUGS
- DEAD END RUN
- HYDRANT RUNOUT

THRUST RESTRAINT ON SLIPJOINT DUCTILE IRON PIPE SHALL BE U.S. PIPE FIELD LOCK GASKETS FOR TYTON JOINT PIPE OR AMERICAN FAST-GRIP GASKETS FOR AMERICAN FASTITE PIPE. THRUST RESTRAINT ON DUCTILE IRON FITTINGS SHALL BE PROVIDED BY THE USE OF MEGALUG RETAINERS AND MECHANICAL JOINT FITTINGS.

**PIPE RESTRAINT**  
NTS

(WITH POLYETHYLENE WRAP OR PVC PIPE)

PIPE SIZE	4"	6"	8"	12"	16"	18"	20"	24"	30"	36"	48"
CAPPED ENDS	-	-	-	-	-	-	-	-	-	-	-
90° BENDS	42(60)	59(85)	77(110)	108(155)	138(198)	153(218)	166(238)	194(277)	231(330)	265(379)	325(465)
45° BENDS	17(25)	25(35)	32(45)	45(64)	57(82)	63(90)	69(98)	80(115)	96(137)	110(157)	135(192)
22 1/2° BENDS	8(12)	12(17)	15(22)	22(31)	28(39)	30(43)	33(47)	39(55)	46(66)	53(75)	65(92)
11 1/4° BENDS	4(6)	6(8)	8(11)	11(15)	14(19)	15(21)	16(23)	19(27)	23(32)	26(37)	32(46)
VALVES	-	-	-	-	-	-	-	-	-	-	-

**DUCTILE IRON RESTRAINED JOINTS FOR VERTICALLY ORIENTED FITTINGS (150 psi)**

MINIMUM LINEAR FEET OF PIPE TO BE RESTRAINED FROM JOINTS AT BENDS OR END CAPS.

(WITH POLYETHYLENE WRAP OR PVC PIPE)

PIPE SIZE	4"	6"	8"	12"	16"	18"	20"	24"	30"	36"	48"
CAPPED ENDS	42(60)	59(85)	77(110)	108(155)	138(198)	153(218)	166(238)	194(277)	231(330)	265(379)	325(465)
90° BENDS	20(24)	29(33)	37(43)	51(60)	65(76)	72(83)	78(90)	89(104)	104(122)	120(138)	144(167)
45° BENDS	8(10)	12(14)	15(18)	21(25)	27(31)	30(35)	32(37)	37(43)	44(52)	50(57)	60(69)
22 1/2° BENDS	4(5)	6(7)	7(9)	10(12)	13(15)	15(17)	16(18)	18(21)	21(24)	24(28)	29(33)
11 1/4° BENDS	2(2)	3(3)	4(4)	5(6)	7(8)	8(9)	8(9)	9(11)	11(12)	12(14)	14(16)
VALVE	35(50)	49(71)	64(92)	90(130)	115(165)	128(182)	139(198)	160(230)	193(275)	220(320)	325(465)

**DUCTILE IRON RESTRAINED JOINTS FOR HORIZONTAL FITTINGS (150 psi)**

MINIMUM LINEAR FEET OF PIPE TO BE RESTRAINED FROM JOINTS AT BENDS VALVE OR END CAPS.

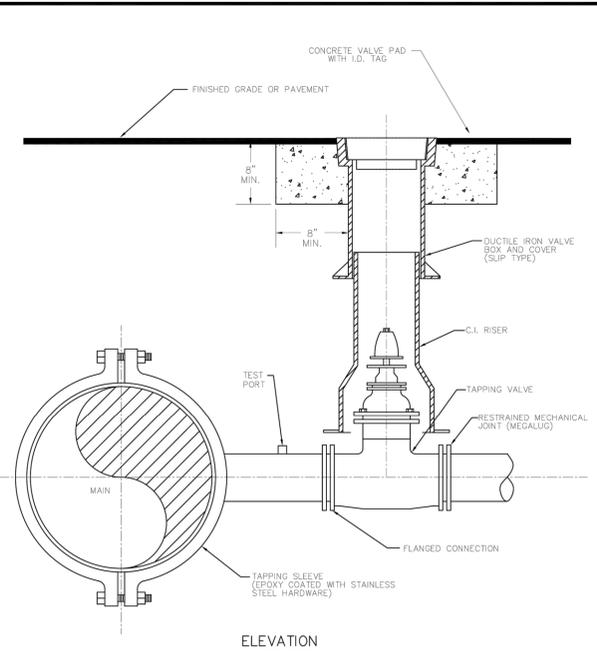
**TEE**

RUN	BRANCH										
	4"	6"	8"	12"	16"	18"	20"	24"	30"	36"	48"
4"	21(29)										
6"	10(15)	38(54)									
8"	0(0)	30(43)	55(78)								
12"	0(0)	15(21)	43(62)	86(123)							
16"		0(0)	30(43)	78(111)	116(185)						
18"		0(0)	24(34)	73(104)	112(161)	130(186)					
20"		0(0)	16(23)	68(98)	109(156)	127(181)	143(205)				
24"		0(0)	1(2)	58(83)	102(145)	120(172)	128(197)	170(243)			
30"		0(0)	0(0)	42(61)	90(128)	110(157)	129(184)	163(233)	207(296)		
36"			0(0)	25(35)	77(110)	99(141)	118(169)	155(221)	201(287)	241(344)	
48"				0(0)	48(68)	73(104)	96(136)	136(194)	186(266)	229(328)	300(429)

**TEE RESTRAINED JOINTS (150 psi)**

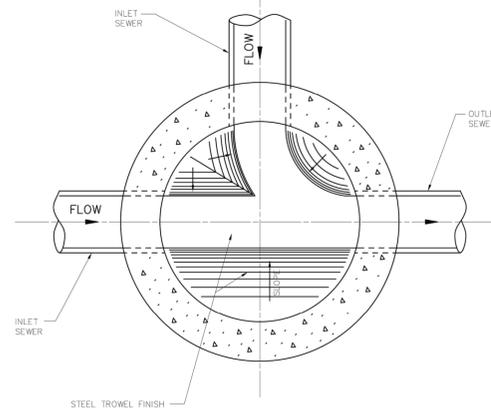
MINIMUM LINEAR FEET OF BRANCH PIPE TO BE RESTRAINED FROM JOINT AT TEE.

**RESTRAINED JOINT TABLE AND ASSOCIATED NOTES**



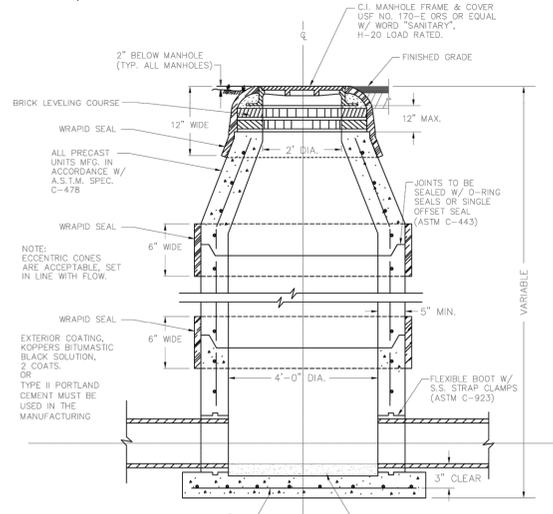
- NOTES:
- SADDLE CONNECTION WILL BE TESTED TO 150 PSI PRIOR TO TAPPING MAIN.
  - MECHANICAL JOINTS/UNDERGROUND PIPING SHALL BE RESTRAINED AS SPECIFIED BY COUNTY/ENGINEER.
  - VALVE EXTENSION ROD SHALL BE UTILIZED, AS NECESSARY, SO THAT VALVE OPERATING NUT IS A MAXIMUM OF 3' BELOW GRADE.

CREATED 02/24/03	WATER, REUSE, AND FORCE MAIN TAPPING DETAIL W/ VALVE LOCATION	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
REVISED		
	PASCO COUNTY UTILITIES	DETAIL 37



CREATED 02/24/03	STANDARD MANHOLE (BENCH AND INVERTS)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
REVISED		
	PASCO COUNTY UTILITIES	DETAIL 39

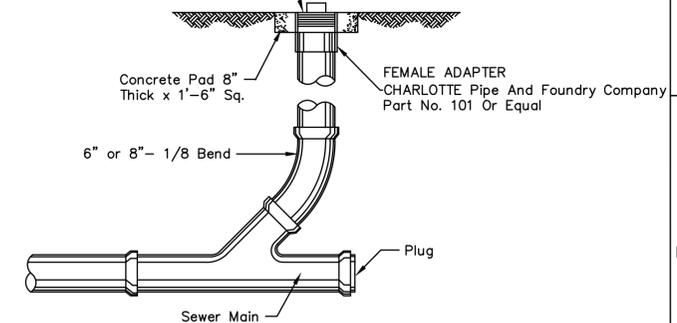
NOTE: PRECAST CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4,000 p.s.i. AT 28 DAYS.



- NOTE:
- WRAPID 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.
  - WRAPID SEAL MUST BE USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
  - PASCO COUNTY SHALL HAVE THE OPTION OF SPECIFYING THE TYPE OF INTERIOR LINING TO BE INSTALLED FOR EACH INDIVIDUAL MANHOLE.
  - PASCO COUNTY SHALL HAVE THE OPTION OF REQUIRING A NEGATIVE PRESSURE TEST PER ASTM C-1244.
  - LIFT HOLES MUST NOT PENETRATE THE WALLS.

CREATED 02/24/03	STANDARD MANHOLE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
REVISED		
	PASCO COUNTY UTILITIES	DETAIL 41

CLEANOUT PLUG CHARLOTTE Pipe And Foundry Company Part No. 106 Or Equal



NOTE: Cleanout Plug Cover To Be U.S. Foundry 7623 Or Equal.

**STANDARD TERMINAL END CLEANOUT (SANITARY)**  
N.T.S.



PROJECT NO.	2016-0009	DATE	7-22-2016	DESIGNED BY	AVS	CHECKED BY	AVS
DRAWN BY	542	DATE		PROJECT NAME	AVS	SCALE	AB
DATE		DATE		PROJECT NAME	AVS	SCALE	AB

DESIGNED FOR  
**CYPRESS POINTE FL, LLC**  
1325 MILLERSPORT HWY., SUITE 209  
WILLIAMSVILLE, NEW YORK 14221  
PH: 716-247-5289

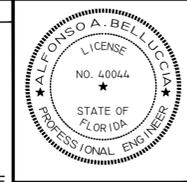
PROJECT NAME  
**CYPRESS POINTE**

SHEET NAME  
**UTILITY DETAILS (2)**



PLAN SET DATE  
**AUG 1, 2016**

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PROJECT NO.	2016-009
DATE	7-22-2016
DESIGNED BY	AVS
CHECKED BY	AVS
DATE	7-22-2016
PROJECT NAME	CYPRESS POINTE
SHEET NAME	UTILITY DETAILS (3)
DATE	
NO.	
REVISIONS	

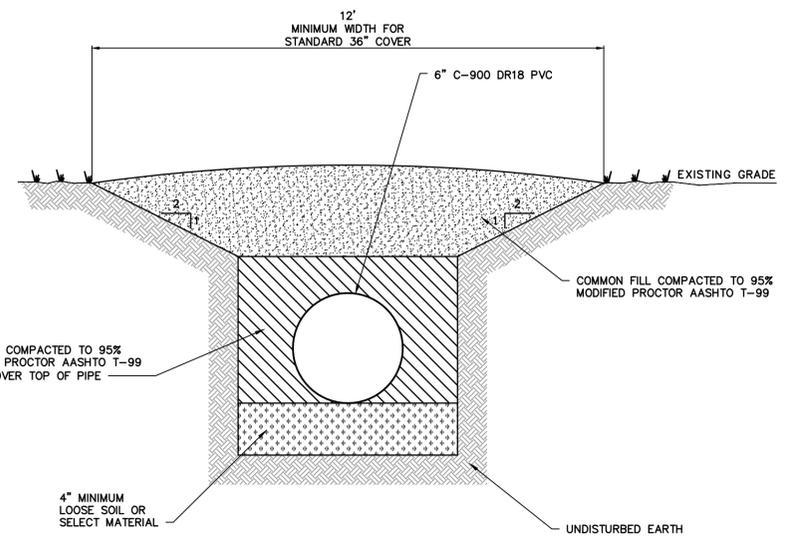
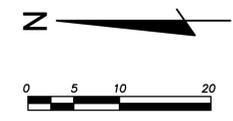
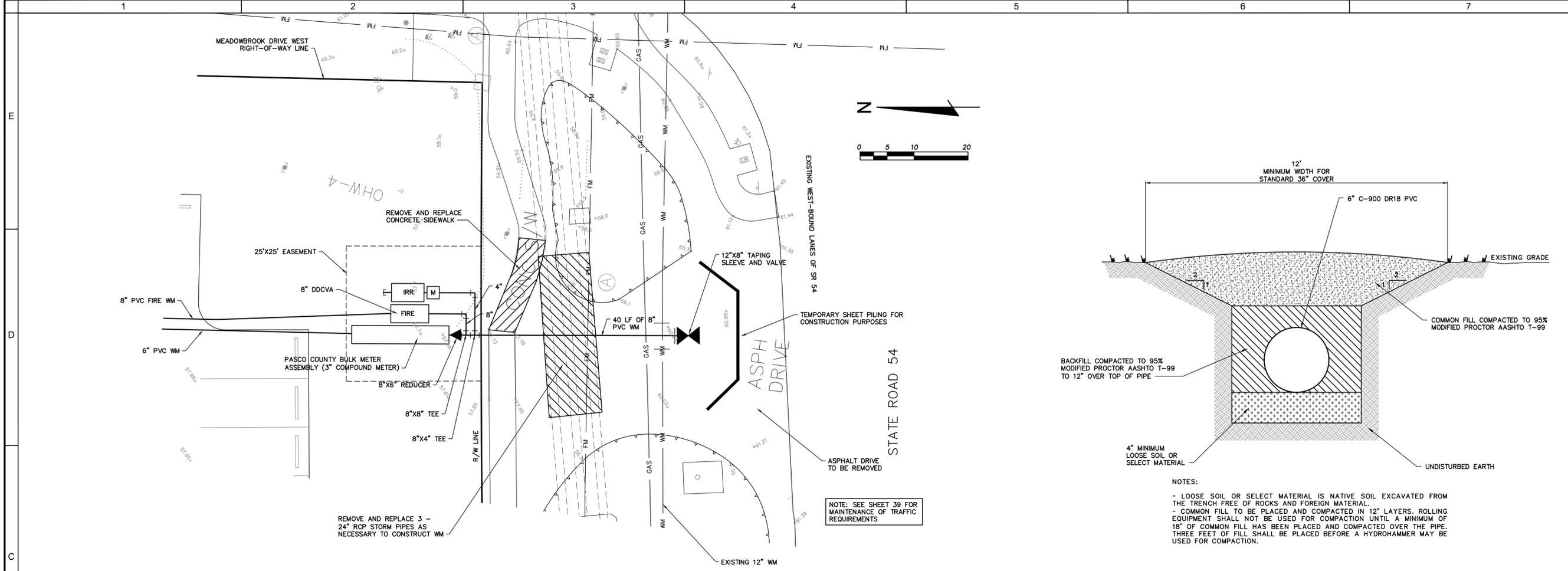
DESIGNED FOR  
**CYPRESS POINTE FL, LLC**  
1325 MILLERSPORT HWY., SUITE 209  
WILLIAMSVILLE, NEW YORK 14221  
PH: 716-247-5289

PROJECT NAME  
**CYPRESS POINTE**

SHEET NAME  
**UTILITY DETAILS (3)**

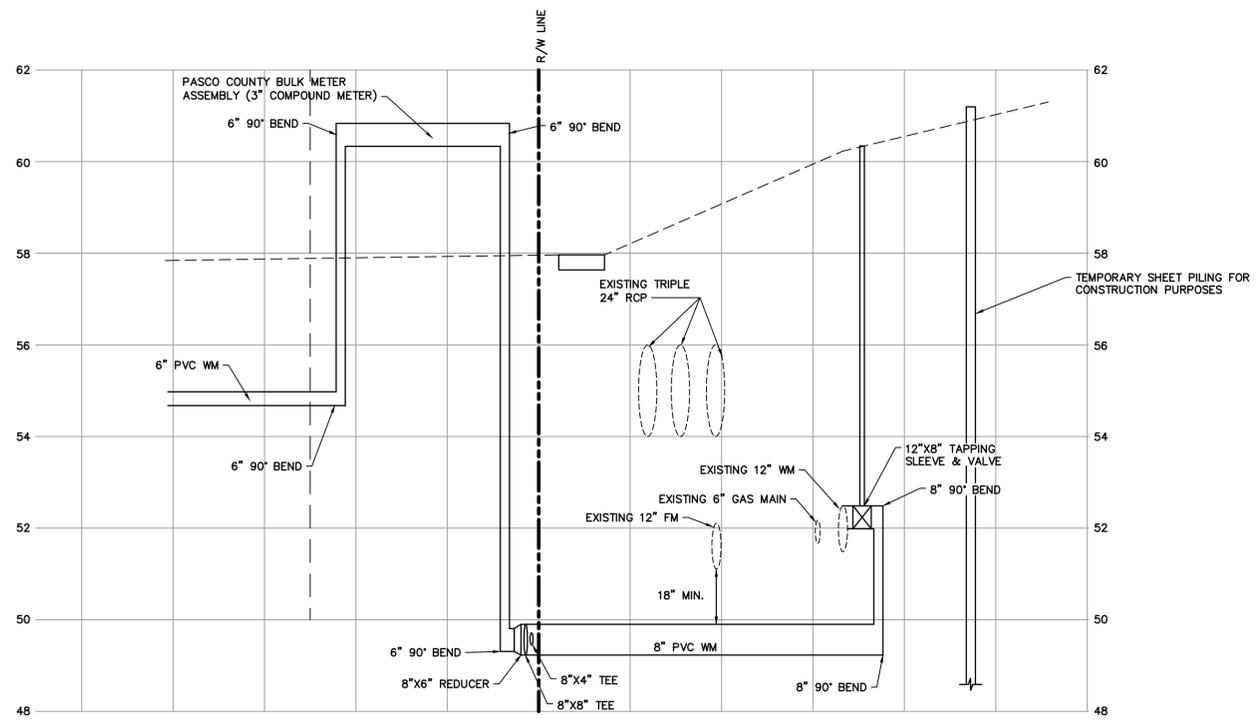
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- NOTES:
- LOOSE SOIL OR SELECT MATERIAL IS NATIVE SOIL EXCAVATED FROM THE TRENCH FREE OF ROCKS AND FOREIGN MATERIAL.
  - COMMON FILL TO BE PLACED AND COMPACTED IN 12" LAYERS. ROLLING EQUIPMENT SHALL NOT BE USED FOR COMPACTION UNTIL A MINIMUM OF 18" OF COMMON FILL HAS BEEN PLACED AND COMPACTED OVER THE PIPE. THREE FEET OF FILL SHALL BE PLACED BEFORE A HYDROHAMMER MAY BE USED FOR COMPACTION.

**TYPICAL TRENCH DETAIL**  
N.T.S.



**FDOT STATION 1768+39, 125' LT.**  
SCALE: 1"=10' HORIZ., 1"=2' VERT.

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# PLANT SCHEDULE

QTY	BOTANICAL NAME / COMMON NAME	CONT	CAL	SIZE	NATIVE	DROUGHT TOL.
<b>CONIFERS</b>						
PP	PINUS PALUSTRIS / LONGLEAF PINE	30 GAL	3" CAL	10'-12' FG	Y	Y
<b>DECIDUOUS TREES</b>						
BN	BETULA NIGRA / RIVER BIRCH MULTI-TRUNK	30 GAL	2" CAL	6' HT. MIN.	Y	Y
PO	PLATANUS OCCIDENTALIS / AMERICAN SYCAMORE	30 GAL	2" CAL	6' HT. MIN.	N	Y
TD	TAXODIUM DISTICHUM / BALD CYPRESS	30 GAL	2" CAL	6' HT. MIN.	Y	Y
UA	ULMUS ALATA / WINGED ELM	30 GAL	2" CAL	10' HT	Y	Y
UA2	ULMUS ALATA / WINGED ELM	65 GAL	4" CAL	10' HT	Y	Y
UF	ULMUS AMERICANA FLORIDANA / FLORIDA ELM	30 GAL	2" CAL	6' HT. MIN.	Y	Y
<b>EVERGREEN TREES</b>						
IC	ILEX CASSINE / DAHOON HOLLY	25 GAL	2" CAL	6' HT	Y	Y
JS	JUNIPERUS SILICICOLA / SOUTHERN RED CEDAR	30 GAL	2" CAL	6' HT. MIN.	Y	Y
ML	MAGNOLIA GRANDIFLORA 'LITTLE GEM' / DWARF SOUTHERN MAGNOLIA	30 GAL	2" CAL	6' HT	Y	Y
QV	QUERCUS VIRGINIANA 'HIGH RISE' / HIGH RISE LIVE OAK	30 GAL	2" CAL	12' HT	Y	Y
QV2	QUERCUS VIRGINIANA 'HIGH RISE' / HIGH RISE LIVE OAK	45 GAL	4" CAL	12' HT	Y	Y
<b>FLOWERING TREES</b>						
LI	LAGERSTROEMIA INDICA 'DYNAMITE' / DYNAMITE GRAPE MYRTLE MUTLI TRUNK	30 GAL	2" CAL	5'-6' OA, MULTI	N	Y
LM	LAGERSTROEMIA X 'MUSKOGEE' / LAVENDER GRAPE MYRTLE MULTI-TRUNK	30 GAL	2" CAL	5'-6' OA, MULTI	Y	Y
LW	LAGERSTROEMIA X 'NATCHEZ' / WHITE GRAPE MYRTLE MULTI-TRUNK	30 GAL	2" CAL	5'-6' OA, MULTI	Y	N
LJ	LIGUSTRUM JAPONICUM / JAPANESE PRIVET	30 GAL	2" CAL	6' HT. MIN.	N	Y
MG	MAGNOLIA GRANDIFLORA / SOUTHERN MAGNOLIA	30 GAL	2" CAL	6' HT	Y	Y
<b>PALM TREES</b>						
SP	SABAL PALMETTO / CABBAGE PALMETTO	30 GAL		10-16' HT CT	Y	Y
WR	WASHINGTONIA ROBUSTA / MEXICAN FAN PALM	30 GAL		10-16' HT CT	N	Y
<b>SHRUBS</b>						
AE	ASPIDISTRA ELATIOR / CAST IRON PLANT	3 GAL	18" HT	36" O.C.	N	N
DE	DURANTA ERECTA 'GOLD MOUND' / GOLD MOUND DURANTA	3 GAL	18" HT	36" O.C.	N	Y
GG	GALPHIMIA GLAUCA / THYRALIS	3 GAL	18" HT	36" O.C.	N	Y
IV	ILEX VOMITORIA 'SCHILLINGS DWARF' / DWARF SCHILLINGS HOLLY	3 GAL	18" HT	36" O.C.	Y	Y
LB	LOROPETALUM CHINENSE RUBRUM 'BURGUNDY' / BURGUNDY LOROPETALUM	3 GAL	18" HT	36" O.C.	Y	Y
MF	MYRCIANTHES FRAGRANS 'COMPACTA' / COMPACT SIMPSON'S STOPPER	3 GAL	18" HT	36" O.C.	Y	Y
MC	MYRICA CERIFERA / WAX MYRTLE	3 GAL	18" HT	36" O.C.	Y	Y
PC	PITOSPORUM TOBIRA 'COMPACTUM' / COMPACT PITTOSPORUM	3 GAL	18" HT	36" O.C.	N	Y
VO	VIBURNUM OBOVATUM / WALTER'S VIBURNUM	3 GAL	18" HT	36" O.C.	Y	Y
VD	VIBURNUM OBOVATUM 'DWARF WALTER'S' / DWARF WALTER'S VIBURNUM	3 GAL	18" HT	36" O.C.	Y	Y
VO2	VIBURNUM ODORATISSIMUM / SWEET VIBURNUM	3 GAL	18" HT	36" O.C.	N	Y
VS	VIBURNUM SUSPENSUM / SANDANKWA VIBURNUM	3 GAL	18" HT	36" O.C.	N	N
<b>SHRUB AREAS</b>						
DV	DIETES VEGETA / AFRICAN IRIS	3 GAL	18" HT	N	Y	36" o.c.
JM	JASMINUM MULTIFLORUM / DOWNEY JASMINE	3 GAL	20" HT.	N	Y	36" o.c.
PX	PHILODENDRON XANADU / XANADU PHILODENDRON	7 GAL	24" HT	N	Y	36" o.c.
PI	PLUMBAGO AURICULATA 'IMPERIAL BLUE' / PLUMBAGO	3 GAL	18" HT	N	Y	48" o.c.
RI	RHAPHIOLEPIS INDICA 'ALBA' / DWARF INDIAN HAWTHORN	3 GAL	18" HT	N	Y	36" o.c.
SR	SERENOA REPENS / SAW PALMETTO	3 GAL	24" HT	Y	Y	24" o.c.
SB	SPARTINA BAKERI / SAND CORD GRASS	1 GAL	18" HT	Y	Y	36" o.c.
ZF2	ZAMIA FURFURACEA / CARDBOARD PALM	3 GAL	12" HT	N	Y	30" o.c.
<b>GRASSES</b>						
MR	MUHLENBERGIA CAPILLARIS 'REGAL MIST' TM / MUHLY	3 GAL	18" HT	Y	Y	48" o.c.
<b>GROUND COVERS</b>						
DT	DIANELLA TASMANICA 'BLUEBERRY' / BLUEBERRY FLAX LILY	3 GAL	N	Y		24" o.c.
JC	JUNIPERUS CONFERTA 'COMPACTA' / SHORE JUNIPER	3 GAL	N	Y		36" o.c.
LE	LIRIOPE MUSCARI 'EMERALD GODDESS' / LIRIOPE	3 GAL	N	Y		24" o.c.
TV	TRACHELOSPERMUM ASIATICUM 'VARIEGATA' / VARIEGATED DWARF JASMINE	4" POT	N	Y		12" o.c.
TJ	TRACHELOSPERMUM JASMINOIDES 'CONFEDERATE' / CONFEDERATE JASMINE	3 GAL	Y	Y		18" o.c.
ZF	ZAMIA FUMILA / COONTIE	3 GAL	Y	Y		36" o.c.



PROJECT NO.	2016-009
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DESIGNED BY	AVS
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REVISIONS	

DESIGNED FOR  
**CYPRESS POINTE FL, LLC**  
 1325 MILLERSPORT HWY., SUITE 209  
 WILLIAMSVILLE, NEW YORK 14221  
 PH: 716-247-5289

PROJECT NAME  
**CYPRESS POINTE**

SHEET NAME  
**TREE SCHEDULE**

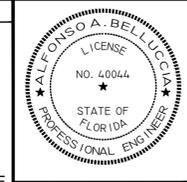
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PROJECT NO.	2016-0009
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 1325 MILLERSPORT HWY., SUITE 209  
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 PH: 716-247-5289

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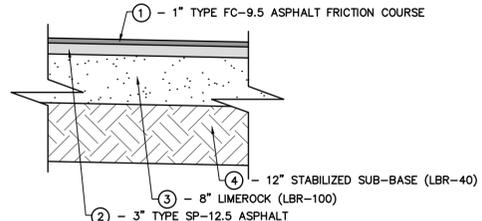
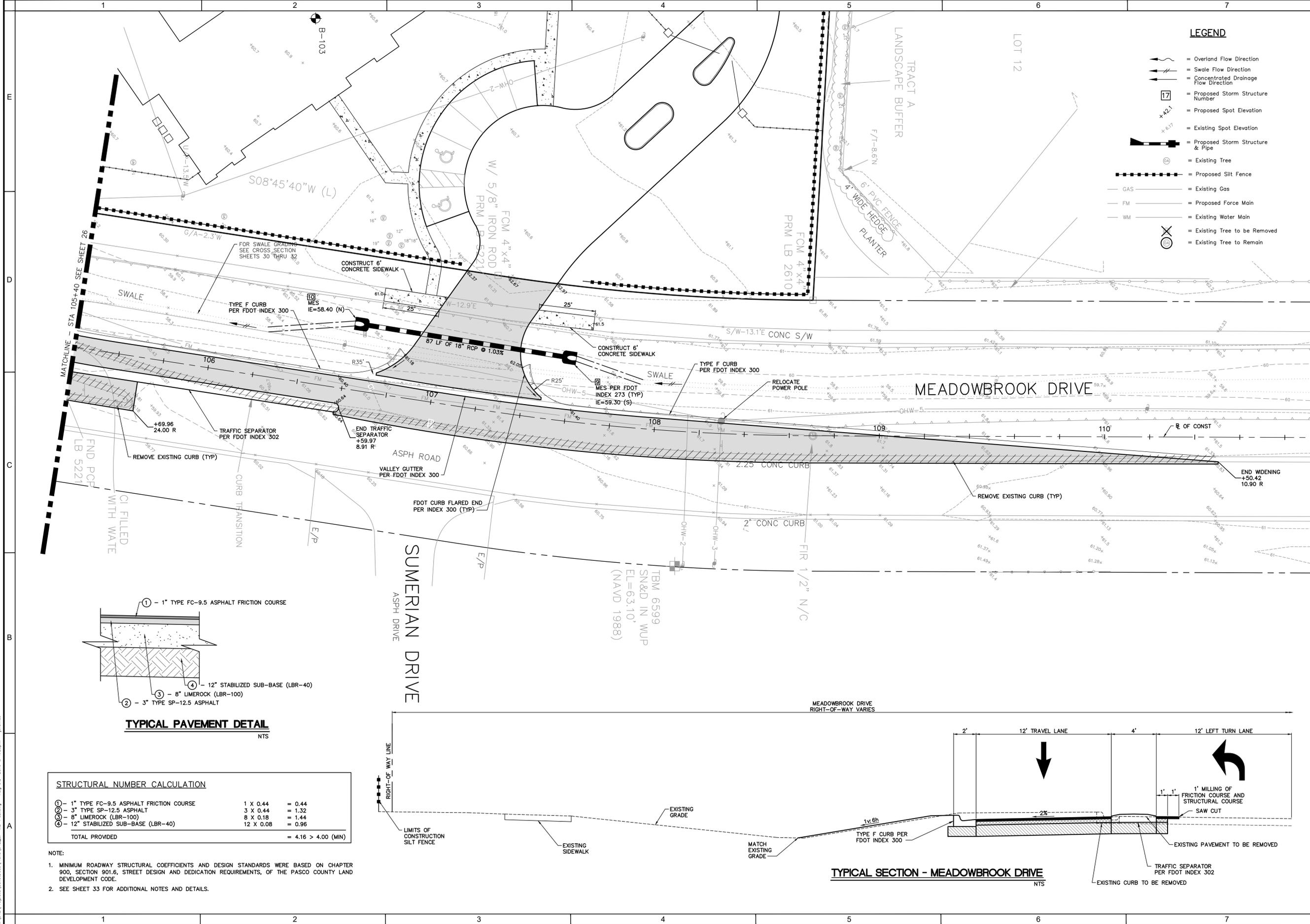
SHEET NAME  
**MEADOWBROOK DRIVE PAVING,  
 GRADING, AND DRAINAGE PLAN (2)**

**FLORIDA DESIGN CONSULTANTS, INC.**  
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**LEGEND**

- = Overland Flow Direction
- = Swale Flow Direction
- = Concentrated Drainage Flow Direction
- = Proposed Storm Structure Number
- = Proposed Spot Elevation
- = Existing Spot Elevation
- = Proposed Storm Structure & Pipe
- = Existing Tree
- = Proposed Silt Fence
- = Existing Gas
- = Proposed Force Main
- = Existing Water Main
- = Existing Tree to be Removed
- = Existing Tree to Remain

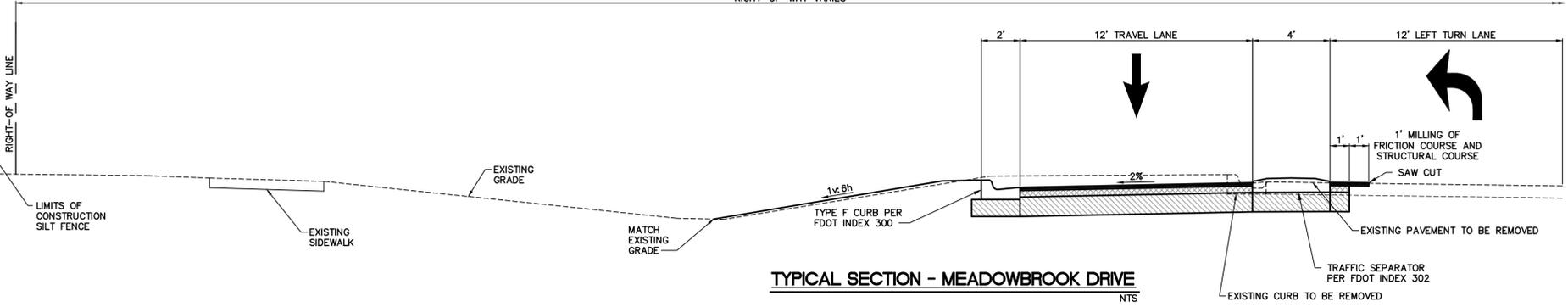


**TYPICAL PAVEMENT DETAIL**  
 NTS

**STRUCTURAL NUMBER CALCULATION**

① - 1" TYPE FC-9.5 ASPHALT FRICTION COURSE	1 X 0.44	=	0.44
② - 3" TYPE SP-12.5 ASPHALT	3 X 0.44	=	1.32
③ - 8" LIMEROCK (LBR-100)	8 X 0.18	=	1.44
④ - 12" STABILIZED SUB-BASE (LBR-40)	12 X 0.08	=	0.96
<b>TOTAL PROVIDED</b>		<b>=</b>	<b>4.16 &gt; 4.00 (MIN)</b>

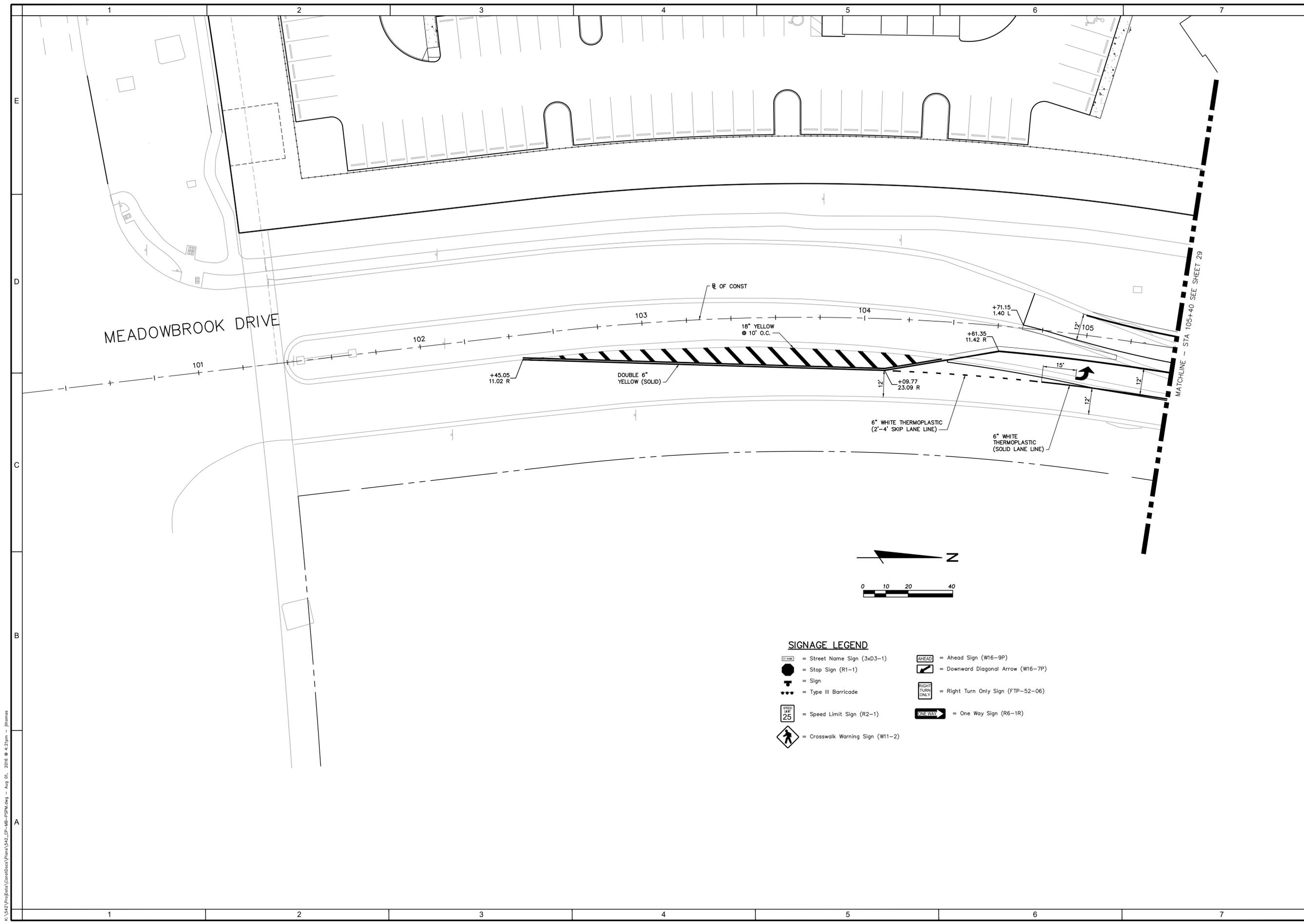
NOTE:  
 1. MINIMUM ROADWAY STRUCTURAL COEFFICIENTS AND DESIGN STANDARDS WERE BASED ON CHAPTER 900, SECTION 901.6, STREET DESIGN AND DEDICATION REQUIREMENTS, OF THE PASCO COUNTY LAND DEVELOPMENT CODE.  
 2. SEE SHEET 33 FOR ADDITIONAL NOTES AND DETAILS.



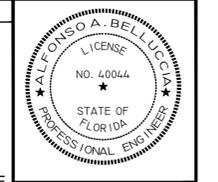
**TYPICAL SECTION - MEADOWBROOK DRIVE**  
 NTS

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- SIGNAGE LEGEND**
- = Street Name Sign (3x03-1)
  - = Stop Sign (R1-1)
  - = Sign
  - = Type III Barricade
  - = Speed Limit Sign (R2-1)
  - = Crosswalk Warning Sign (W11-2)
  - = Ahead Sign (W16-9P)
  - = Downward Diagonal Arrow (W16-7P)
  - = Right Turn Only Sign (FTP-52-06)
  - = One Way Sign (R6-1R)



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DATE	

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**CYPRESS POINTE FL, LLC**  
 1325 MILLERSPORT HWY., SUITE 209  
 WILLIAMSVILLE, NEW YORK 14221  
 PH: 716-247-5289

PROJECT NAME  
**CYPRESS POINTE**

SHEET NAME  
**MEADOWBROOK DRIVE SIGNAGE, AND PAVEMENT MARKINGS PLAN (1)**

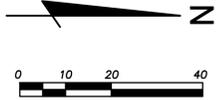
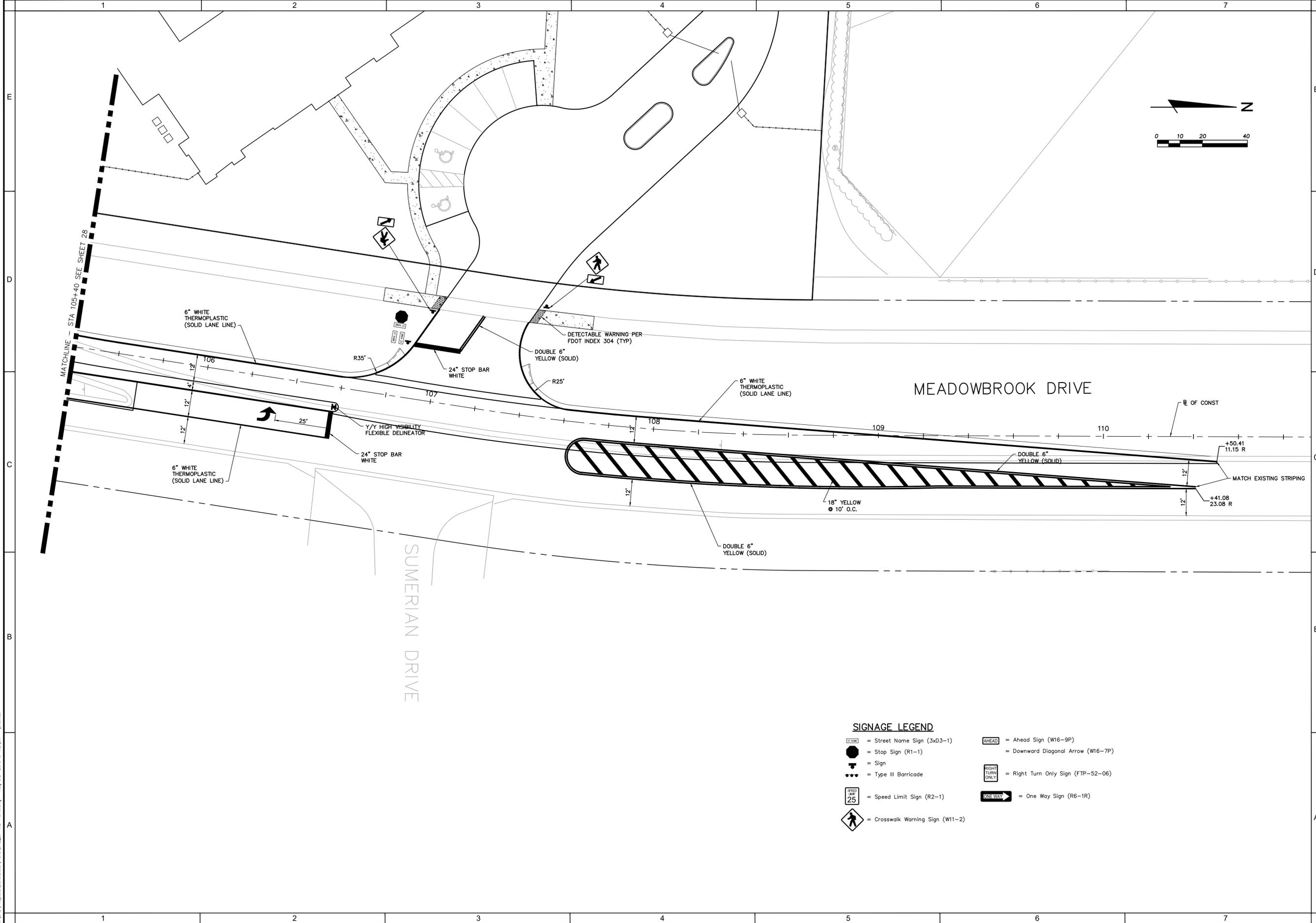
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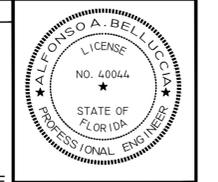
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**SIGNAGE LEGEND**

- = Street Name Sign (3x03-1)
- = Stop Sign (R1-1)
- = Sign
- = Type III Barricade
- = Speed Limit Sign (R2-1)
- = Crosswalk Warning Sign (W11-2)
- = Ahead Sign (W16-9P)
- = Downward Diagonal Arrow (W16-7P)
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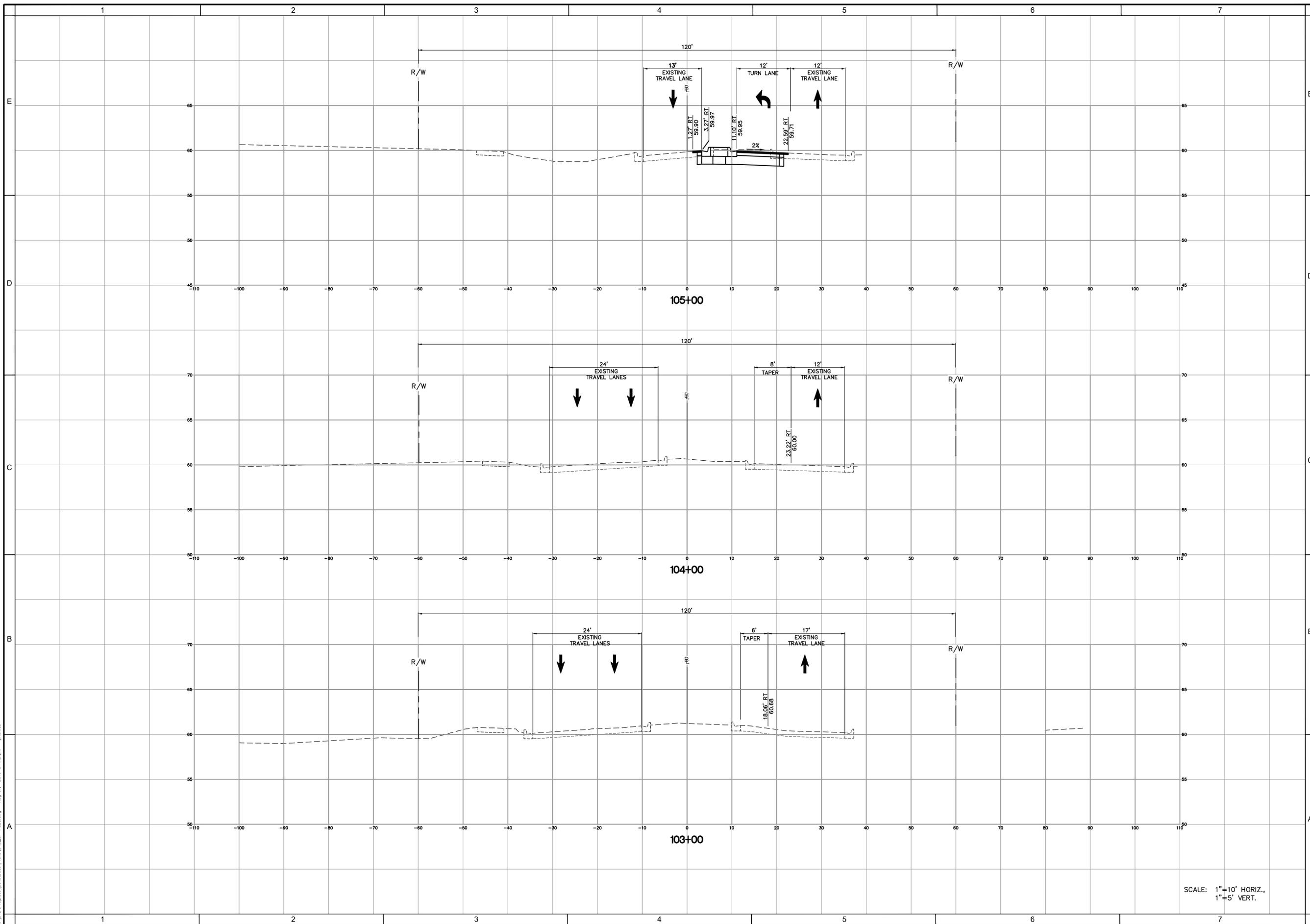
SHEET NAME  
**MEADOWBROOK DRIVE SIGNAGE, AND PAVEMENT MARKINGS PLAN (2)**

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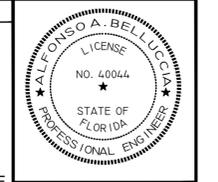
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SCALE: 1"=10' HORIZ.,  
1"=5' VERT.



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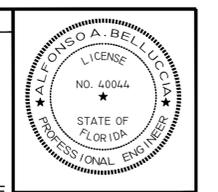
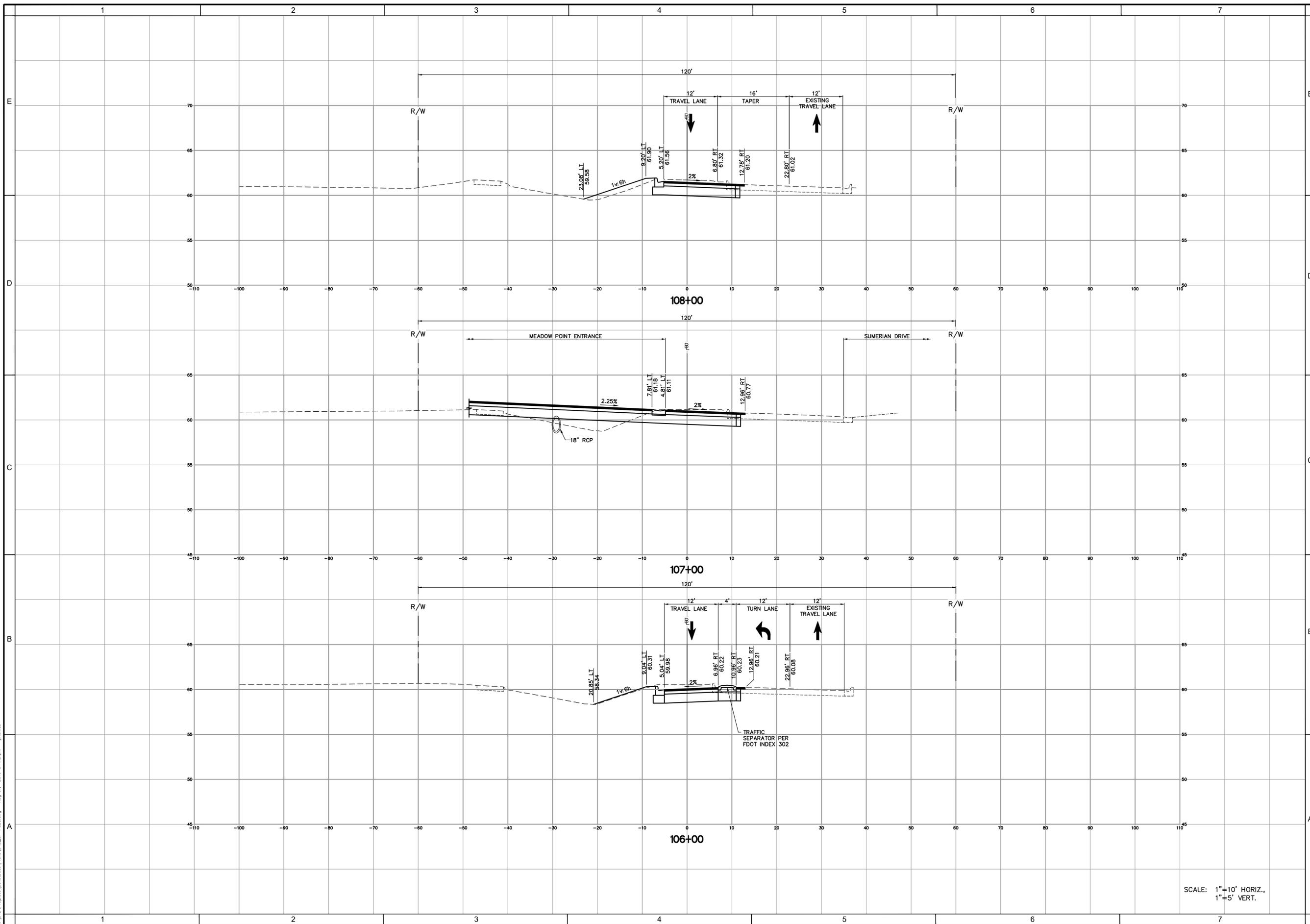
SHEET NAME  
**MEADOWBROOK DRIVE CROSS SECTIONS (1)**

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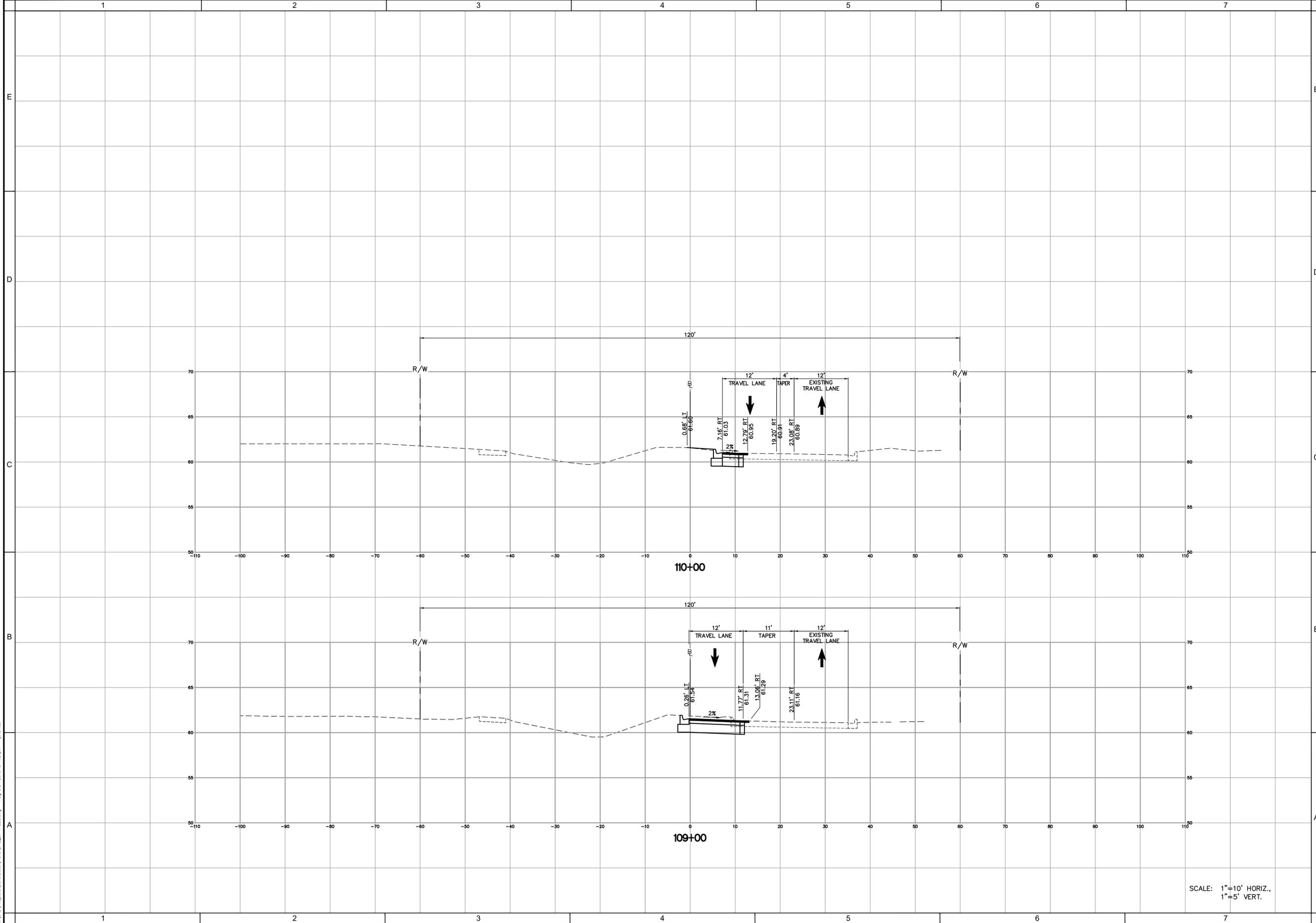
SHEET NAME  
**MEADOWBROOK DRIVE CROSS SECTIONS (2)**

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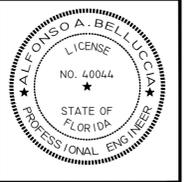
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SCALE: 1"=10' HORIZ.,  
1"=5' VERT.



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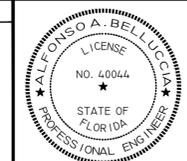
SHEET NAME  
**MEADOWBROOK DRIVE CROSS SECTIONS (3)**

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PHONE: (800) 532-1047 FAX: (727) 848-3648 WWW.FLDESIGN.COM C.A. NO. 7421



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PROJECT NO.	2016-0009	DATE	7-22-2016	DESIGNED BY	AVS	CHECKED BY	AVS	DATE	
DRAWN BY	542								
SCALE									
REVISIONS									

DESIGNED FOR  
**CYPRESS POINTE FL, LLC**  
1325 MILLERSPORT HWY., SUITE 209  
WILLIAMSVILLE, NEW YORK 14221  
PH: 716-247-5289

PROJECT NAME  
**CYPRESS POINTE**

SHEET NAME  
**MEADOWBROOK DRIVE PAVEMENT DETAILS**

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PLAN SET DATE  
**AUG 1, 2016**

SHEET  
**33 OF 39**

- NOTES:
- THE REMOVAL OF ORGANIC MATERIAL SHALL BE BASED ON FDOT INDEX 500.
  - FOR ROADWAYS, BELOW THE STABILIZED SUBGRADE A MINIMUM OF TWO FEET OF SELECT MATERIAL, CONSISTING OF A-3 (SP) SOIL AND/OR A-2-4 WITH A MAXIMUM 15 PERCENT PASSING NUMBER 200 SIEVE, SHALL BE PROVIDED.
  - THE ENGINEER RESPONSIBLE FOR THE PROJECT SHALL CERTIFY TO THE COUNTY ENGINEERING SERVICES DIRECTOR (THRU PC ENGINEERING INSPECTIONS) THAT THE SELECT MATERIAL MEETS THESE STANDARDS PRIOR TO INSTALLATION OF THE BASE. CERTIFICATION SHALL STRICTLY COMPLY WITH THE SUBGRADE CERTIFICATION FORM AVAILABLE IN "ENGINEERING SERVICES DEPARTMENT: A PROCEDURAL GUIDE FOR THE PREPARATION OF ASSURANCES OF COMPLETION AND MAINTENANCE."
  - THE CRUSHED CONCRETE BASE MATERIAL GRADATION SHALL CONFORM TO FDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION SECTIONS 204 AND 901. THE CRUSHED CONCRETE SHALL ALSO CONFORM TO THE CRUSHED CONCRETE SPECIFICATIONS PER THE PASCO COUNTY STANDARDS

**EQUIPMENT, PLACEMENT AND SPREADING OF MATERIAL**

USE MECHANICAL ROCK SPREADERS, EQUIPPED WITH A DEVICE THAT STRIKES OFF THE ROCK UNIFORMLY TO LAYING THICKNESS AND CAPABLE OF PRODUCING EVEN DISTRIBUTION. FOR ROADWAY WIDTHS OF 20 FEET OR LESS, CROSSOVERS, INTERSECTIONS, RAMP AREAS OR WHERE THE USE OF A MECHANICAL SPREADER IS NOT PRACTICABLE, THE CONTRACTOR MAY SPREAD THE CRUSHED CONCRETE BASE USING BULLDOZERS OR BLADE GRADERS. TRANSPORT CRUSHED CONCRETE TO THE POINT OF USE, OVER THE BASE PREVIOUSLY PLACED, AND DUMP IT ON THE END OF THE PRECEDING SPREAD. HAULING ON SUBGRADE TO DUMP CRUSHED CONCRETE BASE WILL BE PERMITTED ONLY WHEN, IN THE ENGINEER'S OPINION, THESE OPERATIONS WILL NOT BE DETRIMENTAL TO THE BASE AND SUBGRADE.

CRUSHED CONCRETE SHALL BE SPREAD UNIFORMLY WITHOUT SEGREGATION OF FINE OR COARSE MATERIALS. SEGREGATED AREAS SHALL BE REPLACED WITH PROPERLY GRADED CRUSHED CONCRETE AFTER REMOVAL.

THE MINIMUM THICKNESS OF THE CRUSHED CONCRETE BASE SHALL BE INDICATED ON THE PLANS. WHEN THE SPECIFIED COMPACTED THICKNESS OF THE CRUSHED CONCRETE BASE IS GREATER THAN SIX INCHES, CONSTRUCT THE BASE IN MULTIPLE COURSES OF EQUAL THICKNESS. INDIVIDUAL COURSES SHALL NOT BE LESS THAN THREE INCHES. PLACE CRUSHED CONCRETE MATERIAL TO ENSURE THE TOTAL THICKNESS SINGLE SOURCE INTEGRITY AT ANY STATION LOCATION OF THE BASE.

**COMPACTING, FINISHING AND TESTING REQUIREMENTS**

AFTER SPREADING IS COMPLETED THE CRUSHED CONCRETE SHALL BE UNIFORMLY COMPACTED, WITH WATER BEING ADDED AS REQUIRED TO A DENSITY OF NOT LESS THAN ONE HUNDRED PERCENT (100%) OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. DURING FINAL COMPACTION OPERATIONS, IF THE BLADING OF ANY AREAS IS NECESSARY TO OBTAIN THE TRUE GRADE AND CROSS SECTION, FREE OF SCABS AND LAMINATIONS, THE COMPACTING OPERATIONS FOR SUCH AREAS SHALL BE COMPLETED PRIOR TO THE PERFORMANCE OF DENSITY TESTS ON THE FINISHED BASE.

MULTIPLE COURSE BASE: CLEAN THE FIRST COURSE OF FOREIGN MATERIAL, THEN BLADE AND BRING IT TO A SURFACE CROSS-SECTION APPROXIMATELY PARALLEL TO THE FINISHED BASE. BEFORE SPREADING ANY MATERIAL FOR THE UPPER COURSES, OBTAIN DENSITY TESTS FOR THE LOWER COURSES TO DETERMINE THAT THE REQUIRED COMPACTION (NOT LESS THAN ONE HUNDRED PERCENT (100%) OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180) HAS BEEN OBTAINED. AFTER SPREADING THE CRUSHED CONCRETE FOR THE TOP COURSE, FINISH AND SHAPE ITS SURFACE TO PRODUCE THE REQUIRED GRADE AND CROSS-SECTION, FREE OF SCABS AND LAMINATIONS, AFTER COMPACTION.

THE MINIMUM DENSITY THAT WILL BE ACCEPTED AT ANY LOCATION OUTSIDE THE TRAVELED ROADWAY (SUCH AS INTERSECTIONS, CROSSOVERS, TURNOUTS, ETC.) SHALL BE 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

**TESTING OF BASE COURSE**

THE MINIMUM FREQUENCY OF SAMPLING AND TESTING OF CRUSHED CONCRETE MATERIAL, LAB DENSITY, FIELD DENSITY AND THICKNESS SHALL ADHERE TO THE FREQUENCY OF TESTING FOR LIMEROCK BASE IN THE MOST CURRENT EDITION OF "PASCO COUNTY ENGINEERING SERVICES DEPARTMENT TESTING SPECIFICATIONS FOR CONSTRUCTION OF ROADS, STORM DRAINAGE AND UTILITIES". ONE PLANT MIX DESIGN, ONE PLANT GRADATION TEST FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES (AASHTO T-27) (FM-1027) INCLUDING A PLASTICITY INDEX (FM-1090) (AASHTO T-90) FROM THE APPROVED SOURCE SHALL BE SUBMITTED AT ONE PER DAY OR CHANGE OF MATERIAL. ONE ROADWAY FIELD TEST FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES (ASTM C-136) SHALL BE SUBMITTED PER 500 FEET OF ROAD PER DAY PER MIX DESIGN, MINIMUM ONE PER ROAD.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING PERFORMED IN CONNECTION WITH CONSTRUCTION OF THE BASE.

**CORRECTION OF DEFECTS**

ALL SEGREGATED AREAS OF FINE OR COARSE CRUSHED CONCRETE SHALL BE REMOVED AND REPLACED WITH PROPERLY GRADED RECLAIMED CONCRETE AGGREGATE BASE MATERIAL. ALL DEFECTS IN MATERIALS AND CONSTRUCTION SHALL BE CORRECTED BY THE CONTRACTOR, AT HIS EXPENSE, AND TO THE SATISFACTION OF THE COUNTY ENGINEER.

**PRIMING AND MAINTENANCE**

APPLY THE PRIME COAT ONLY WHEN THE BASE MEETS THE SPECIFIED DENSITY REQUIREMENTS AND WHEN THE MOISTURE CONTENT, AT THE TIME OF PRIMING, ENSURE THAT THE BASE IS FIRM, UNYIELDING AND IN SUCH CONDITION THAT NO UNDUO DISTORTION WILL OCCUR. MAINTAIN THE TRUE CROWN AND TEMPLATE, WITH NO BUTTING OR DISTORTION, WHILE APPLYING THE SURFACE COURSE.

**PASCO COUNTY TESTING SPECIFICATIONS ON CRUSHED CONCRETE BASE**

TESTS FOR BASE THICKNESS, AND DENSITY SHALL BE LOCATED NO MORE THAN THREE HUNDRED (300) FEET APART AND SHALL BE STAGGERED TO THE LEFT, RIGHT, AND ON THE CENTERLINE OF ROADWAY. THERE SHALL BE NO LESS THAN ONE (1) TEST PER STREET, BEARING VALUE, GRADATION AND FIELD TEST FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES (ASTM C-136) SHALL BE NO MORE THAN FIVE HUNDRED (500) FEET.

EXAMPLE: A SEVEN HUNDRED FEET ROAD WOULD REQUIRE TWO FIELD LBR AND GRADATION TESTS, THREE FIELD DENSITY AND THICKNESS TESTS ALONG WITH THE APPROPRIATE LAB TESTING.

NOTE:  
NO DEVIATIONS TO THIS DETAIL WILL BE PERMITTED UNLESS APPROVED BY THE COUNTY ENGINEER.  
ANY PROPOSED ALTERATIONS SHALL BE CLEARLY IDENTIFIED AND HIGHLIGHTED ON DETAIL.

PASCO COUNTY ENGINEERING SERVICES  
**CRUSHED - CONCRETE BASE SPECIFICATIONS**  
DESIGN STANDARDS APPROVED BY JOW BCC APPROVAL REVISED

Sheet No. 2 of 2  
Index No. 104

**PASCO COUNTY CRUSHED CONCRETE BASE SPECIFICATIONS**

THE WORK SPECIFIED UNDER THIS SECTION CONSISTS OF THE CONSTRUCTION OF ROADWAY BASE UTILIZING CRUSHED CONCRETE (RECLAIMED CONCRETE AGGREGATE BASE MATERIAL) ON A PREPARED STABILIZED SUBGRADE OF LBR 40 WITH A DENSITY OF 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY AS DETERMINED BY FM-1-T 180, METHOD D, IN CONFORMITY WITH THE LINES, GRADES NOTES AND TYPICAL CROSS SECTIONS SHOWN IN THE PLANS, AND AS DIRECTED BY THE COUNTY ENGINEER.

THE CONSTRUCTION OF CRUSHED CONCRETE BASE SHALL CONFORM TO THE REQUIREMENTS OF THIS SECTION, OR, IN LIEU THEREOF, SUCH REQUIREMENTS AS MAY BE ESTABLISHED BY THE COUNTY ENGINEER DURING CONSTRUCTION. THE COUNTY ENGINEER SHALL HAVE FULL AUTHORITY TO MODIFY THE PROVISIONS OF THIS SECTION AS DEEMED NECESSARY, IN HIS OPINION, TO MEET FIELD CONDITIONS AND REQUIREMENTS.

**MATERIALS**

CRUSHED CONCRETE MUST BE PRODUCED FROM A SOURCE APPROVED BY FLORIDA DEPARTMENT OF TRANSPORTATION OR THE COUNTY ENGINEER. THE SUPPLIER SHALL HAVE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) PERMIT REQUIREMENTS SECTION 62-701.730 OR BE QUALIFIED AS A CLEAN DEBRIS SOURCE UNDER DEP RULES. THE RECLAIMED CONCRETE AGGREGATE BASE SHALL CONSIST OF CRUSHED CONCRETE MATERIAL DERIVED FROM THE CRUSHING OF HARD PORTLAND CEMENT CONCRETE.

**COMPOSITION**

BASE MATERIAL SHALL CONFORM TO THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE SIZE	PERCENT BY WEIGHT PASSING
2 INCH	100
3/4 INCH	65 TO 95
3/8 INCH	40 TO 85
No. 4	25 TO 65
No. 10	20 TO 50
No. 50	5 TO 25
No. 200	0 TO 10

BASE MATERIAL SHALL CONFORM TO THE FOLLOWING PLASTICITY REQUIREMENTS:  
CRUSHED CONCRETE BASE SHALL NOT CONTAIN PLASTIC SOILS SUCH THAT THE No. 40 SIEVE MATERIAL SHALL BE NON-PLASTIC.  
LIQUID LIMIT (AS DETERMINED BY AASHTO T80) (LESS THAN 25) PER MATERIAL TYPE  
THE FINISHED IN-PLACE CRUSHED CONCRETE BASE LIMEROCK BEARING RATIO SHALL HAVE A MINIMUM (LBR) OF 150.  
CRUSHED CONCRETE BASE SHALL BE FREE OF ALL MATERIALS THAT FALL UNDER THE CATEGORY OF SOLID WASTE OR HAZARD MATERIALS AS DEFINED BY THE STATE OR LOCAL JURISDICTION AND SHALL MEET ALL DEP PERMIT REQUIREMENTS WHICH PERTAIN TO CONSTRUCTION, DEMOLITION AND RECYCLING OF THESE MATERIALS. CRUSHED CONCRETE BASE SHALL BE ASBESTOS FREE. THE FOLLOWING LIMITS SHALL NOT BE EXCEEDED:

BITUMINOUS CONCRETE	.....1% BY WEIGHT
BRICKS	.....1% BY WEIGHT
WOOD AND OTHER ORGANIC SUBSTANCES	.....0.5% BY WEIGHT
HEAVY METALS (EXCEPT LEAD)	.....0.1% BY WEIGHT
LEAD	.....5 PARTS PER MILLION
REINFORCED STEEL AND WELDED WIRE FABRIC	.....0.1% BY WEIGHT
PLASTER AND GYPSUM BOARD	.....0.1% BY WEIGHT

THE MATERIAL FOR CRUSHED CONCRETE BASE SHALL CONSIST ONLY OF CRUSHED CONCRETE PAVEMENT AND SUCH ADDITIVE MATERIAL AS MAY BE APPROVED BY THE COUNTY ENGINEER FOR THE PURPOSE OF FACILITATING CONSTRUCTION AND ACHIEVING THE DESIRED CHARACTERISTICS OF THE FINISHED IN-PLACE PRODUCT. APPROVAL FROM THE COUNTY ENGINEER IS REQUIRED BEFORE PLACING MATERIAL FROM MORE THAN ONE SOURCE. ONCE APPROVED, A CHANGE IN THE SOURCE OF BASE MATERIAL SHALL REQUIRE ADDITIONAL ACCEPTANCE TESTING. THE MATERIAL SHALL NOT CONTAIN LUMPS, BALLS OR POCKETS OF SAND OR CLAY MATERIAL IN SIZE OR QUANTITY SUFFICIENT TO BE DETRIMENTAL TO THE PROPER BONDING, FINISHING, STRENGTH OF THE CONCRETE BASE. EXISTING BASE IS TO BE REMOVED TO CONSTRUCT THE NEW BASE.

NOTE:  
NO DEVIATIONS TO THIS DETAIL WILL BE PERMITTED UNLESS APPROVED BY THE COUNTY ENGINEER.  
ANY PROPOSED ALTERATIONS SHALL BE CLEARLY IDENTIFIED AND HIGHLIGHTED ON DETAIL.

PASCO COUNTY ENGINEERING SERVICES  
**CRUSHED - CONCRETE BASE SPECIFICATIONS**  
DESIGN STANDARDS APPROVED BY JOW BCC APPROVAL REVISED

Sheet No. 1 of 2  
Index No. 104

**SECTIONAL VIEW NTS**

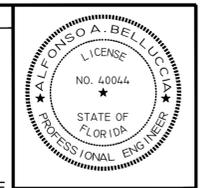
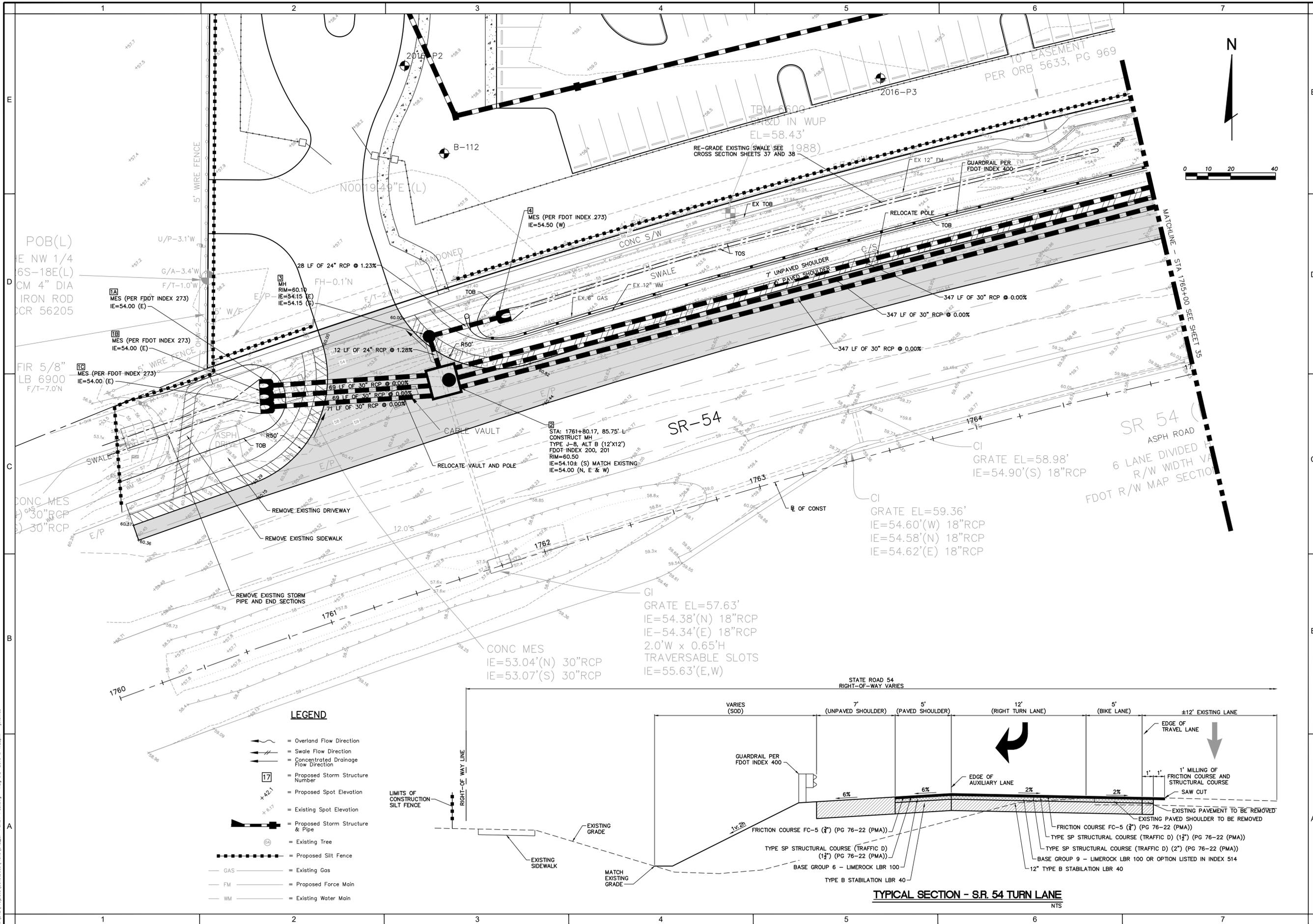
VERTICAL SURFACE SHALL BE FREE OF DUST AND MATERIAL FULLY TACKED WITH ASPHALT, AND INSPECTED BY THE APPLICANT'S ENGINEER FOR ULTIMATE CERTIFICATION OF COMPLIANCE TO SPECIFICATIONS

NOTE:  
NO DEVIATIONS TO THIS DETAIL WILL BE PERMITTED UNLESS APPROVED BY THE COUNTY ENGINEER.  
ANY PROPOSED ALTERATIONS SHALL BE CLEARLY IDENTIFIED AND HIGHLIGHTED ON DETAIL.

PASCO COUNTY ENGINEERING SERVICES  
**PAVEMENT TIE-IN SAW CUT DETAIL**  
DESIGN STANDARDS APPROVED BY JOW BCC APPROVAL REVISED DWG. NO.

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PROJECT NO.	2016-0009
DATE	7-22-2016
DESIGNED BY	AVS
CHECKED BY	AVS
DATE	7-22-2016
PROJECT NAME	CYPRESS POINT
SHEET NAME	SR-54 PAVING GRADING AND DRAINAGE PLAN (1)

DESIGNED FOR  
**CYPRESS POINTE FL, LLC**  
 1325 MILLERSPORT HWY., SUITE 209  
 WILLIAMSVILLE, NEW YORK 14221  
 PH: 716-247-5289

PROJECT NAME  
**CYPRESS POINTE**

SHEET NAME  
**SR-54 PAVING GRADING AND DRAINAGE PLAN (1)**

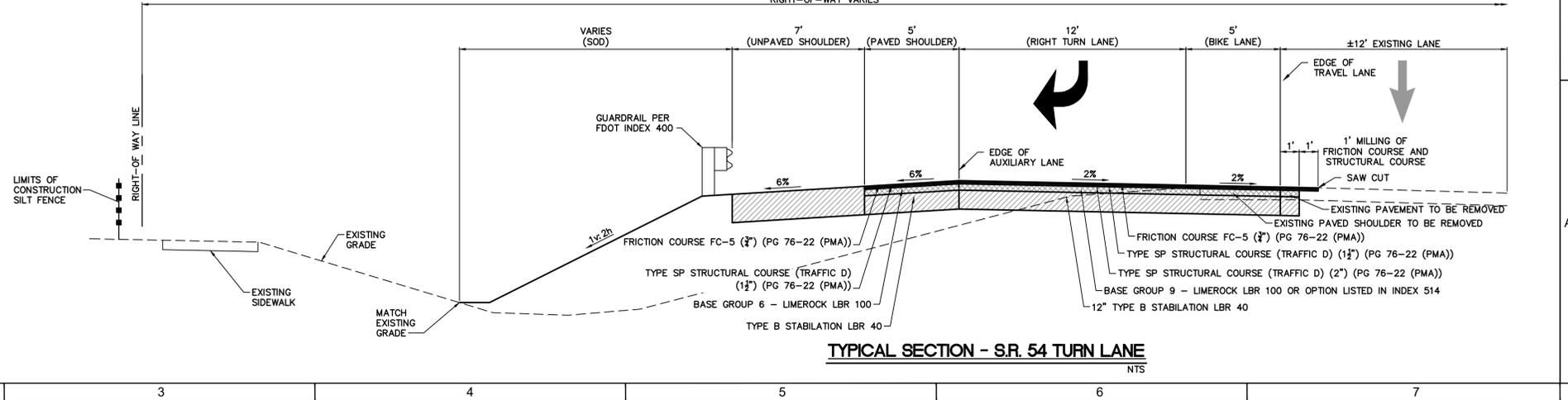
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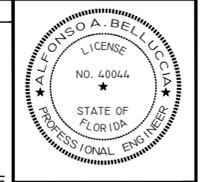
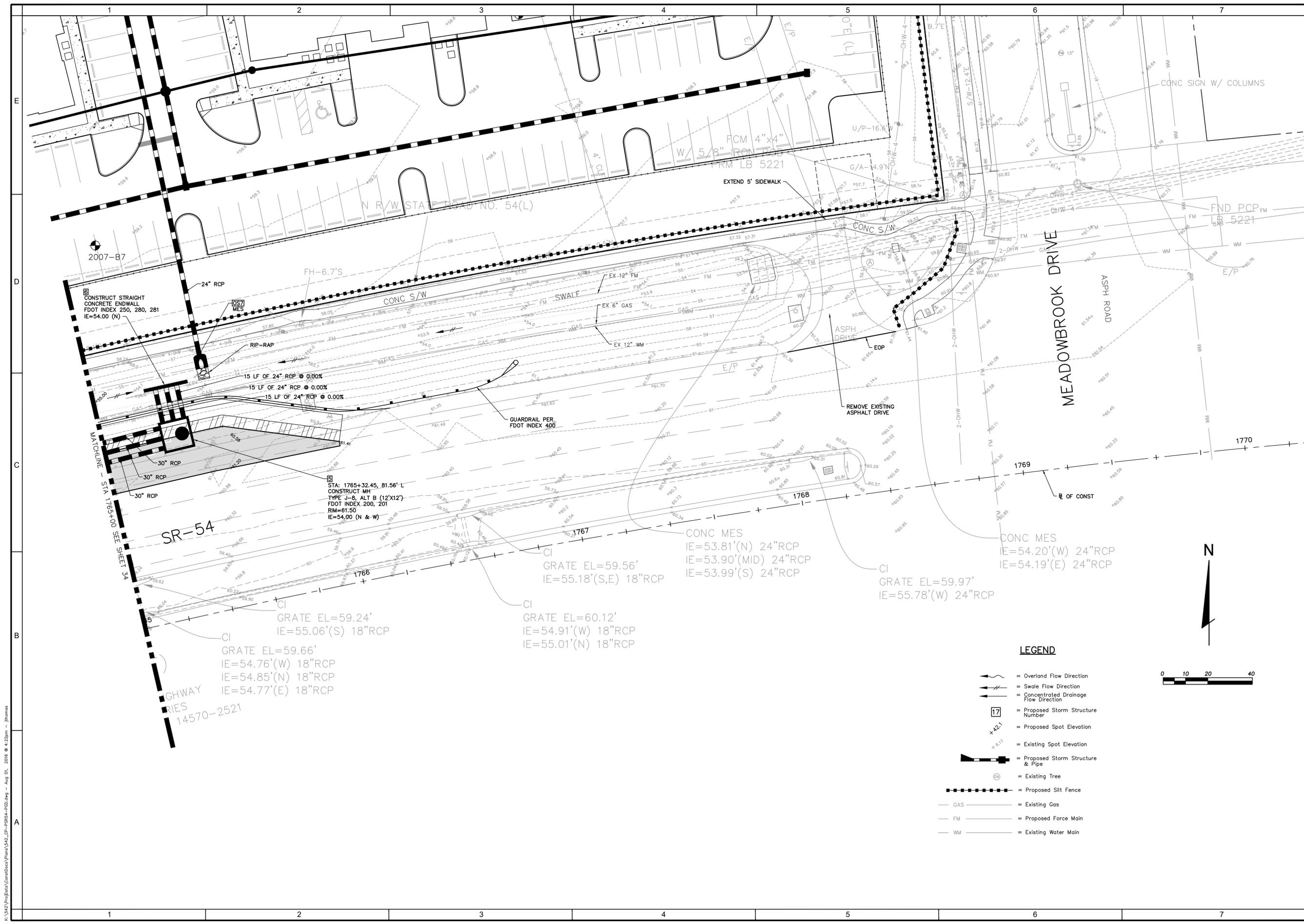
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 PHONE: (800) 532-1047 FAX: (727) 848-3648 WWW.FLDESIGN.COM C.A. NO. 7421

PLAN SET DATE  
**AUG 1, 2016**

SHEET  
**34 OF 39**

- LEGEND**
- = Overland Flow Direction
  - = Swale Flow Direction
  - = Concentrated Drainage Flow Direction
  - = Proposed Storm Structure Number
  - = Proposed Spot Elevation
  - = Existing Spot Elevation
  - = Proposed Storm Structure & Pipe
  - = Existing Tree
  - = Proposed Silt Fence
  - = Existing Gas
  - = Proposed Force Main
  - = Existing Water Main





PROJECT NO.	2016-009
DATE	7-22-2016
DESIGNER	AVS
CHECKER	AVS
DATE	7-22-2016
SCALE	AS SHOWN
BY	AB

DESIGNED FOR  
**CYPRESS POINTE FL, LLC**  
 1325 MILLERSPORT HWY., SUITE 209  
 WILLIAMSVILLE, NEW YORK 14221  
 PH: 716-247-5289

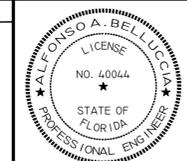
PROJECT NAME  
**CYPRESS POINTE**

SHEET NAME  
**SR-54 PAVING GRADING AND DRAINAGE PLAN (2)**

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PROJECT NO.	2016-0009
DATE	7-22-2016
DESIGNED BY	AVS
CHECKED BY	AVS
DATE	7-22-2016
SCALE	AS SHOWN
PROJECT NAME	SR-54 SIGNAGE, AND PAVEMENT MARKINGS PLAN
SHEET NAME	CYPRESS POINTE
DATE	
NO.	
REV.	
BY	
CHKD.	
DATE	

DESIGNED FOR	CYPRESS POINTE FL, LLC 1325 MILLERSPORT HWY., SUITE 209 WILLIAMSVILLE, NEW YORK 14221 PH: 716-247-5289
PROJECT NAME	CYPRESS POINTE
SHEET NAME	SR-54 SIGNAGE, AND PAVEMENT MARKINGS PLAN

DESIGNED FOR	CYPRESS POINTE FL, LLC 1325 MILLERSPORT HWY., SUITE 209 WILLIAMSVILLE, NEW YORK 14221 PH: 716-247-5289
PROJECT NAME	CYPRESS POINTE
SHEET NAME	SR-54 SIGNAGE, AND PAVEMENT MARKINGS PLAN

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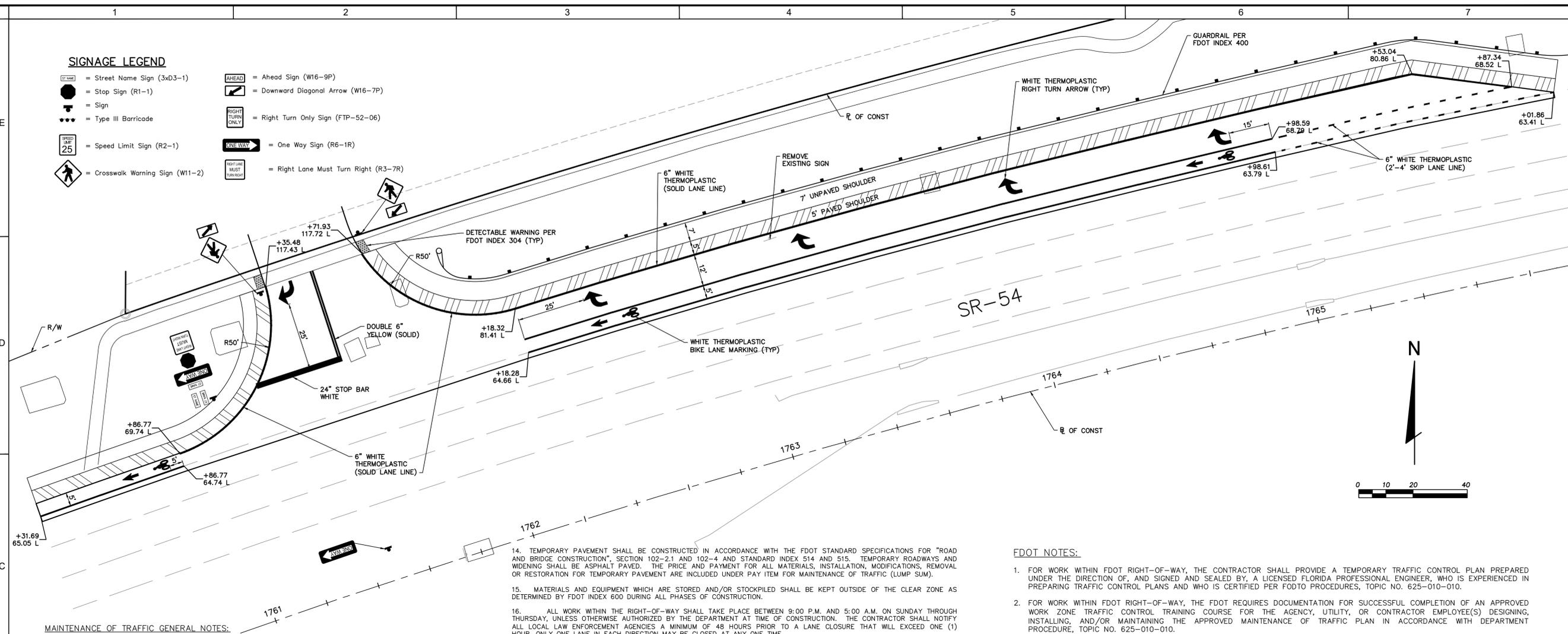
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PHONE: (800) 532-1047 FAX: (727) 848-3648 WWW.FLDESIGN.COM C.A. NO. 7421

PLAN SET DATE  
**AUG 1, 2016**

SHEET  
**36 OF 39**

**SIGNAGE LEGEND**

- = Street Name Sign (3xD3-1)
- = Stop Sign (R1-1)
- = Sign
- = Type III Barricade
- = Speed Limit Sign (R2-1)
- = Crosswalk Warning Sign (W11-2)
- = Ahead Sign (W16-9P)
- = Downward Diagonal Arrow (W16-7P)
- = Right Turn Only Sign (FTP-52-06)
- = One Way Sign (R6-1R)
- = Right Lane Must Turn Right (R3-7R)



**MAINTENANCE OF TRAFFIC GENERAL NOTES:**

1. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING FULLY DETAILED MAINTENANCE-OF-TRAFFIC PLANS TO BE UTILIZED FOR TRAFFIC CONTROL. THE PREPARATION OF THESE PLANS MUST CONFORM TO ALL THE REQUIREMENTS IDENTIFIED ON THIS SHEET. THESE PLANS MUST BE PREPARED AND SIGNED & SEALED BY A FLORIDA REGISTERED ENGINEER WHO HAS THE NECESSARY TRAINING AND EXPERIENCE. THE ENGINEER WHO WILL PREPARE THE PLANS AND THE CONTRACTOR'S PERSONNEL WHO WILL ADMINISTER THE PLANS MUST MEET THE FDOT TRAINING REQUIREMENTS (FDOT TRAINING PROCEDURE #625-010-010-A). PAYMENT IS INCLUDED IN PAY ITEM FOR MAINTENANCE OF TRAFFIC (LUMP SUM).
2. THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) LATEST EDITION, SERIES 600 OF THE FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS" (LATEST EDITION) AND SECTION 102 OF THE STANDARD SPECIFICATIONS AT ALL TIMES.
3. EXISTING REGULATORY SIGNS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED AT ALL TIMES.
4. ALL EXISTING PAVEMENT MARKINGS, WHICH CONFLICT WITH THE TRAFFIC CONTROL PLAN DURING A CONSTRUCTION PHASE SHALL BE REMOVED OR TEMPORARILY RELOCATED AS NECESSARY PRIOR TO THE DIVERSION OF TRAFFIC AND THE COMMENCEMENT OF CONSTRUCTION. THE REMOVAL OF EXISTING PAVEMENT MARKINGS THAT ARE TO BE PERMANENTLY REMOVED MUST BE COMPLETED BY MILLING AND RESURFACING.
5. USE FDOT INDEXES 11200 AND 11860 FOR SIGN SUPPORT REQUIREMENTS. THE CONTRACTOR SHALL USE THE MUTCD TO DETERMINE THE APPROPRIATE COLOR FOR CONSTRUCTION SIGNS.
6. THE FIRST TWO (2) SIGNS OF THE ADVANCE SIGNING INSTALLATION SHALL HAVE 18"x18" (MIN.) ORANGE FLAGS AND HIGH INTENSITY TYPE "B" FLASHING LIGHTS ATTACHED AND OPERATING AT ALL TIMES. THE TYPE B FLASHING LIGHTS SHALL BE PLACED ON THE SIDE OF TRAFFIC.
7. MINIMUM LANE WIDTHS SHALL BE NO LESS THAN EXISTING LANE WIDTHS OR THE WIDTHS AS FOLLOWS (WHICH EVER IS GREATER): SR. 54 - 11 FT.
8. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE CONTROLLING AGENCY TO RESTRICT OR REMOVE LANE CLOSURES OR CHANNELIZATIONS. THE CONTRACTOR SHALL RESPOND AND PROVIDE ADJUSTMENTS AS DIRECTED WITHOUT DELAY UNDER THESE CONDITIONS. THE CONTRACTOR SHALL ALSO RESPOND WITHIN 30 MINUTES UPON NOTIFICATION BY THE CONTROLLING AGENCY TO ANY REQUESTS FOR CORRECTION, IMPROVEMENT OR MODIFICATION TO THE TRAFFIC CONTROL PLAN AND/OR DEVICES.
9. BARRICADES, CONES AND DRUMS SHALL NOT BE INTERMIXED IN LATERAL TRANSITIONS.
10. THE REMOVAL AND REPLACEMENT OF ANY TEMPORARY STRIPING OR RPM'S SHALL BE DONE WITH THE CLOSURE OF THE AFFECTED LANE AND LATEST FDOT INDEX 600 SERIES FOR TRAFFIC CONTROL.
11. TWO-WAY ACCESS (INGRESS/EGRESS) TO ALL PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
12. ALL WORK MUST CONFORM TO FDOT INDEX NO. 600 INCLUDING DROP OFF REQUIREMENTS, AND APPLICABLE FDOT INDEXES.
13. EXISTING DRAINAGE SYSTEMS MUST BE MAINTAINED UNTIL THE NEW SYSTEM IS CONSTRUCTED AND FUNCTIONAL. TEMPORARY SWALES, CULVERTS, PIPES, PLUMBING, ETC. ARE TO BE CONSTRUCTED WITHIN THE RIGHT OF WAY AS REQUIRED. REFER TO THE FDOT DRAINAGE HANDBOOK FOR TEMPORARY DRAINAGE DESIGN. PAYMENT IS INCLUDED UNDER PAY ITEM FOR MAINTENANCE OF TRAFFIC (LUMP SUM).
14. TEMPORARY PAVEMENT MARKINGS SHALL INCLUDE LANE LINES, EDGE LINES, STORAGE AREAS, STOP BARS, AND MESSAGES TO FULLY DEFINE TRAFFIC MOVEMENT. ALL TEMPORARY MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 102 OF THE FDOT STANDARD SPECIFICATIONS. ALL MARKINGS SHALL BE REFLECTORIZED. THESE TEMPORARY MARKINGS SHALL BE PROVIDED AS SOON AS POSSIBLE AT THE END OF EACH DAY'S PAVING OPERATIONS AND PRIOR TO OPENING TO TRAFFIC.
15. UNLESS OTHERWISE SPECIFIED, THE CROSS SLOPE FOR ALL TEMPORARY PAVEMENT WHICH ABUTS EXISTING OR NEW PAVEMENT SHALL MATCH THE CROSS SLOPE OF THE ADJACENT EXISTING CROSS SLOPE TRANSITIONS SHALL CONFORM TO STANDARD INDEX 511. THE CONTRACTOR SHALL ENSURE ADEQUATE DRAINAGE OF ALL TEMPORARY PAVEMENT.

14. TEMPORARY PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FDOT STANDARD SPECIFICATIONS FOR "ROAD AND BRIDGE CONSTRUCTION", SECTION 102-2.1 AND 102-4 AND STANDARD INDEX 514 AND 515. TEMPORARY ROADWAYS AND WIDENING SHALL BE ASPHALT PAVED. THE PRICE AND PAYMENT FOR ALL MATERIALS, INSTALLATION, MODIFICATIONS, REMOVAL OR RESTORATION FOR TEMPORARY PAVEMENT ARE INCLUDED UNDER PAY ITEM FOR MAINTENANCE OF TRAFFIC (LUMP SUM).
15. MATERIALS AND EQUIPMENT WHICH ARE STORED AND/OR STOCKPILED SHALL BE KEPT OUTSIDE OF THE CLEAR ZONE AS DETERMINED BY FDOT INDEX 600 DURING ALL PHASES OF CONSTRUCTION.
16. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL TAKE PLACE BETWEEN 9:00 P.M. AND 5:00 A.M. ON SUNDAY THROUGH THURSDAY, UNLESS OTHERWISE AUTHORIZED BY THE DEPARTMENT AT TIME OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY ALL LOCAL LAW ENFORCEMENT AGENCIES A MINIMUM OF 48 HOURS PRIOR TO A LANE CLOSURE THAT WILL EXCEED ONE (1) HOUR. ONLY ONE LANE IN EACH DIRECTION MAY BE CLOSED AT ANY ONE TIME.
17. EXISTING LEFT TURN LANE MOVEMENTS ARE TO BE MAINTAINED AT ALL INTERSECTIONS DURING ALL PHASES OF CONSTRUCTION.
18. ANY WORK REQUIRING LANE CLOSURES SHALL BE COMPLETED AS SOON AS POSSIBLE AND THE LANES REOPENED TO TRAFFIC WITH PROPER PAVEMENT MARKINGS AND WARNING DEVICES IN PLACE.
19. A DISCUSSION OF LANE CLOSURE OPERATIONS WILL BE MADE PART OF ALL PRECONSTRUCTION AND CONSTRUCTION CONFERENCES. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A WRITTEN PLAN WHICH DETAILS EACH ACTIVITY INVOLVED IN THE LANE CLOSURE. THE PLAN SHALL INCLUDE BACK-UP PLANS FOR ACTIVITIES CRITICAL TO REOPENING THE LANES TO TRAFFIC, AND THE BACK-UP FOR ALL SUBCONTRACTOR OPERATIONS AS WELL AS THE PRIME CONTRACTORS.
22. NO LANE CLOSURE WILL BE ALLOWED WITHOUT ABSOLUTE ASSURANCE THAT THE PRIME AND SUBCONTRACTORS HAVE PLANNED THE OPERATIONS TO ACHIEVE REOPENING ACCORDING TO THESE REQUIREMENTS AND TO THE SATISFACTION OF THE CONTROLLING AGENCY.
23. AT THE DISCRETION OF THE CONTROLLING AGENCY, IF A LANE CLOSURE CAUSES EXTENDED CONGESTION OR DELAY, THE CONTRACTOR SHALL REOPEN THE CLOSED LANE(S) UNTIL SUCH TIME AS TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
24. WARNING LIGHTS:  
WARNING LIGHTS SHALL BE IN ACCORDANCE WITH SECTION 6E-5 OF THE MUTCD: TYPE "B" HIGH INTENSITY FLASHING WARNING LIGHTS SHALL BE MOUNTED ON THE FIRST AND SECOND ADVANCE WARNING SIGNS WHERE TWO OR MORE SIGNS ARE USED. THIS APPLIES TO ANY WORK ZONE.  
TYPE "C" STEADY-BURN LIGHTS ARE TO BE MOUNTED ON BARRICADES, DRUMS, VERTICAL PANELS AND USED IN COMBINATION WITH THOSE DEVICES TO DELINEATE THE TRAVEL WAY ON LANE CLOSURES, LANE CHANGES, DETOUR CURVES AND OTHER SIMILAR CONDITIONS. STEADY-BURN LIGHTS ARE INTENDED TO BE PLACED IN A LINE TO DELINEATE THE TRAVELED WAY THROUGH AND AROUND OBSTRUCTIONS IN THE TRANSITION, BUFFER, WORK AND TERMINATION AREAS OF THE TRAFFIC CONTROL ZONE. THEIR INTENDED PURPOSE IS NOT FOR WARNING DRIVERS THAT THEY ARE APPROACHING OR PROCEEDING THROUGH A HAZARDOUS AREA.
25. REFLECTORIZED RAISED PAVEMENT MARKERS:  
TEMPORARY RPM'S SHALL BE INSTALLED ON THE LANE LINES OF ALL TRANSITIONS, CROSPOVERS AND DETOURS WITHIN THE WORK ZONE. THE SPACING SHALL BE 40 FEET ON TANGENT SECTIONS AND 20 FEET ON TRANSITIONS, CURVES AND CROSPOVERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE MISSING OR DAMAGED RPM'S ON A DAILY BASIS. RPM'S MAY BE UTILIZED IN LIEU OF TEMPORARY TAPE OR PAINT IN ACCORDANCE WITH FDOT INDEX 600 SHEET 10 OF 10. THE USE OF RPM'S DOES NOT ELIMINATE REQUIREMENTS OF REMOVING ANY CONFLICTING PAVEMENT MARKINGS. THE COST SHALL BE INCLUDED IN THE PAY ITEM FOR MAINTENANCE OF TRAFFIC (LUMP SUM).
26. ALL EXISTING PAVEMENT MARKINGS, OUTSIDE THE LIMITS OF CONSTRUCTION, THAT ARE ALTERED OR DAMAGED AS DETERMINED BY THE CONTROLLING AGENCY, SHALL BE REPLACED UPON COMPLETION OF THE PROJECT. ALL COSTS FOR REMOVAL AND REPLACEMENT SHALL BE INCLUDED IN THE PAY ITEM FOR MAINTENANCE OF TRAFFIC (LUMP SUM).
27. SIGNING FOR THE CONSTRUCTION PHASE FOR WHICH IT IS REQUIRED SHALL BE ERRECTED AND COVERED UNTIL THE PHASE FOR WHICH IT IS REQUIRED IS OPENED TO TRAFFIC. ALL CONFLICTING SIGNS SHALL BE COVERED OR REMOVED. EXISTING SIGNS SHALL BE MAINTAINED AND/OR RELOCATED DURING CONSTRUCTION UNTIL PROPOSED SIGNS ARE INSTALLED. COST FOR MAINTENANCE OR RELOCATION OF EXISTING SIGNS TO BE INCLUDED IN PAY ITEM MAINTENANCE OF TRAFFIC (LUMP SUM).
28. THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE EROSION CONTROL PLANS PRIOR TO THE BEGINNING OF CONSTRUCTION AND SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION OPERATIONS TO ENSURE SAFE VEHICULAR OPERATIONS AS WELL AS TO PROHIBIT ANY UNDUE IMPACT ON OFF-SITE DRAINAGE OR ENVIRONMENTAL CONCERNS.
29. EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION SIGNS SHALL BE REMOVED OR COVERED DURING CONSTRUCTION. ALL EXISTING SIGNS THAT ARE REMOVED SHALL BE STOCKPILED IN A SECURE PLACE AND REINSTALLED AFTER CONSTRUCTION UNLESS SHOWN TO BE REMOVED IN THE SIGNING AND MARKING PLANS. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING SIGNS.
30. TRAFFIC SHALL BE MAINTAINED ON PAVED SURFACES AT ALL TIMES.
31. CROSS DRAIN CONSTRUCTION UNDER EXISTING ROADWAYS WILL REQUIRE STAGE CONSTRUCTION UTILIZING FLAGMEN TRAFFIC CONTROL PER FDOT INDEX 621 MAINTAINING ONE TRAVEL LANE. LANE CLOSURES ARE RESTRICTED TO OFF-PEAK TRAFFIC TIMES (SEE NOTE 18 FOR LANE CLOSURE RESTRICTIONS).

**FDOT NOTES:**

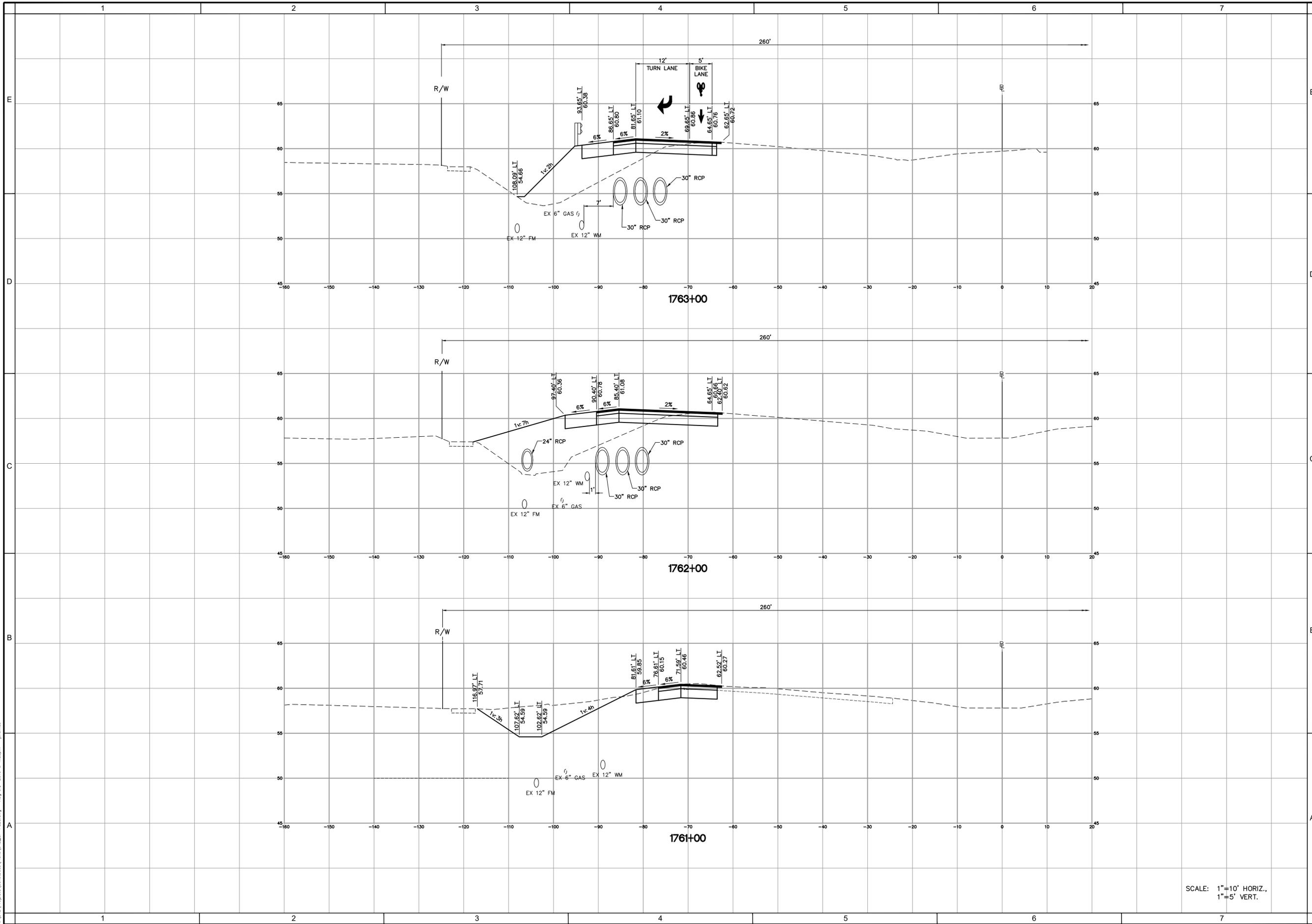
1. FOR WORK WITHIN FDOT RIGHT-OF-WAY, THE CONTRACTOR SHALL PROVIDE A TEMPORARY TRAFFIC CONTROL PLAN PREPARED UNDER THE DIRECTION OF, AND SIGNED AND SEALED BY, A LICENSED FLORIDA PROFESSIONAL ENGINEER, WHO IS EXPERIENCED IN PREPARING TRAFFIC CONTROL PLANS AND WHO IS CERTIFIED PER FDOT PROCEDURES, TOPIC NO. 625-010-010.
2. FOR WORK WITHIN FDOT RIGHT-OF-WAY, THE FDOT REQUIRES DOCUMENTATION FOR SUCCESSFUL COMPLETION OF AN APPROVED WORK ZONE TRAFFIC CONTROL TRAINING COURSE FOR THE AGENCY, UTILITY, OR CONTRACTOR EMPLOYEE(S) DESIGNING, INSTALLING, AND/OR MAINTAINING THE APPROVED MAINTENANCE OF TRAFFIC PLAN IN ACCORDANCE WITH DEPARTMENT PROCEDURE, TOPIC NO. 625-010-010.
3. ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR SR 54 SHALL BE DESIGNED AND INSTALLED TO MEET THE EXISTING POSTED SPEED OF 55 MPH.
4. ALL LANE CLOSURE AND WORK HOURS MUST BE APPROVED IN ADVANCE BY THE FDOT. CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING LANE CLOSURES.

**FDOT CONSTRUCTION NOTES:**

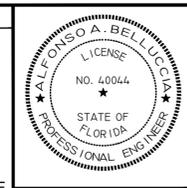
- ALL WORK PERFORMED IN THE DEPARTMENT'S RIGHT OF WAY SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT EDITIONS OF:
- A) F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
  - B) F.D.O.T. DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM.
  - C) F.D.O.T. ROADWAY PLANS PREPARATION MANUAL VOLUME 1, CHAPTER 2 AND/OR 25.
  - D) F.D.O.T. FLEXIBLE PAVEMENT DESIGN MANUAL FOR NEW CONSTRUCTION AND PAVEMENT REHABILITATION.
- 1) ALL AREAS IN THE FDOT RIGHT OF WAY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED, COMPACTED, SODDED AND WATERED IN CONFORMANCE WITH THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 575 AND 981 AND DESIGN STANDARDS INDEX 105.
  - 2) DAYTIME WORK ONLY: THE F.D.O.T. ENGINEER MUST APPROVE NIGHT WORK AND LANE CLOSURES AT LEAST 48 HOURS IN ADVANCE. THE APPLICANT MUST NOTIFY THE FLORIDA DEPARTMENT OF TRANSPORTATION LOCAL MAINTENANCE OFFICE 48 HOURS IN ADVANCE OF STARTING ANY PROPOSED WORK. CALL: BROOKSVILLE OPERATIONS, JOHN KILKENNY @ 352-848-2600.
  - 3) ALL TRAFFIC STRIPES AND PAVEMENT MARKINGS ARE TO BE LEAD-FREE, NON-SOLVENT BASED THERMOPLASTIC. THE PERMITTEE SHALL FURNISH THE DEPARTMENT WITH THE MANUFACTURER'S CERTIFICATION THAT THE THERMOPLASTIC IS "LEAD FREE". REMOVAL OF EXISTING STRIPING SHALL BE DONE BY MILLING AND RESURFACING OF THE FRICTION/SURFACE COURSE TO OBLITERATE OBSOLETE PAVEMENT MARKINGS.
  - 4) ALL PROPOSED TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH AND CONSTRUCTED TO THE FDOT DESIGN STANDARDS INDEX SERIES 11000 AND 17000 SERIES. THE PROPERTY OWNER MUST MAINTAIN THE TRAFFIC SIGNS AND MARKINGS FOR THE DRIVEWAY.
  - 5) FOR WORK WITHIN THE FDOT RIGHT-OF-WAY, THE CONTRACTOR SHALL PROVIDE A TEMPORARY TRAFFIC CONTROL PLAN PREPARED UNDER THE DIRECTION OF, AND SIGNED AND SEALED BY, A LICENSED FLORIDA PROFESSIONAL ENGINEER WHO IS EXPERIENCED IN PREPARING TRAFFIC CONTROL PLANS AND WHO IS CERTIFIED PER FDOT PROCEDURE TOPIC NO. 625-010-010. THE FDOT REQUIRES DOCUMENTATION FOR SUCCESSFUL COMPLETION OF AN APPROVED WORK ZONE TRAFFIC CONTROL TRAINING COURSE FOR THE AGENCY, UTILITY OR CONTRACTOR EMPLOYEE(S) INSTALLING AND/OR MAINTAINING THE APPROVED MAINTENANCE OF TRAFFIC PLAN. DOCUMENTATION IS TO BE FURNISHED TO THE DEPARTMENT AT THE PRE-CONSTRUCTION MEETING OR BEFORE OCCUPYING STATE RIGHT-OF-WAY.
  - 6) MAINTENANCE OF TRAFFIC PLAN FOR WORK ZONES SHALL BE IN CONFORMANCE WITH SPECIFIC INDICES OF THE CURRENT FDOT DESIGN STANDARDS INDEX 600 SERIES INCLUDED WITH THESE PLANS.
  - 7) ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR PROMENADE PARKWAY/SR54 TURN LANE SHALL BE DESIGNED AND INSTALLED TO MEET THE EXISTING POSTED SPEED OF 55 MPH.

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



PROJECT NO.	2016-009
DATE	7-22-2016
DESIGNED BY	AVS
CHECKED BY	AVS
DATE	
NO.	
DATE	
REVISION	
BY	
DATE	

DESIGNED FOR  
**CYPRESS POINTE FL, LLC**  
1325 MILLERSPORT HWY., SUITE 209  
WILLIAMSVILLE, NEW YORK 14221  
PH: 716-247-5289

PROJECT NAME  
**CYPRESS POINTE**

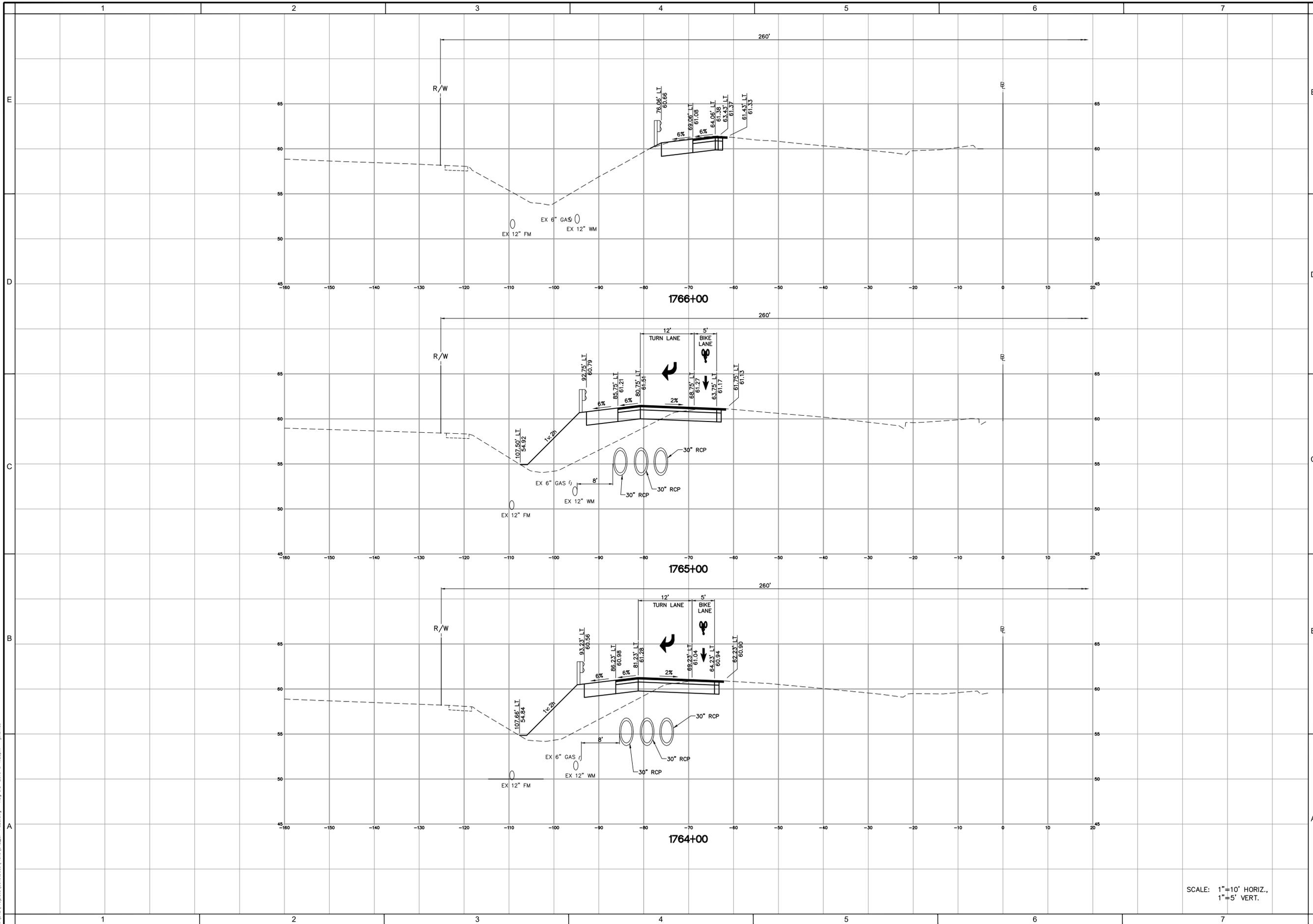
SHEET NAME  
**SR-54 CROSS SECTIONS (1)**

**FLORIDA DESIGN CONSULTANTS, INC.**  
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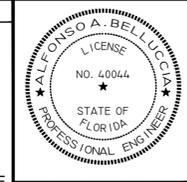
3030 STARKEY BOULEVARD, NEW PORT RICHEY, FLORIDA 34855  
PHONE: (800) 532-1047 FAX: (727) 848-3648 WWW.FLDESIGN.COM C.A. NO. 7421

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SCALE: 1"=10' HORIZ.,  
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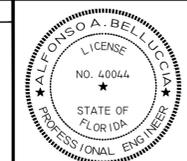
PROJECT NAME  
**CYPRESS POINTE**

SHEET NAME  
**SR-54 CROSS SECTIONS (2)**

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DESIGNED FOR  
**CYPRESS POINTE FL, LLC**  
1325 WILLIAMSVILLE HWY., SUITE 209  
WILLIAMSVILLE, NEW YORK 14221  
PH: 716-247-5289

PROJECT NAME  
**CYPRESS POINTE**

SHEET NAME  
**MAINTENANCE OF TRAFFIC  
FDOT INDEX DETAILS**

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PHONE: (800) 532-1047 FAX: (727) 848-3648 WWW.FLDESIGN.COM C.A. NO. 7421

