CONSTRUCTION PLANS
FOR
BUCK ISLAND - TOY FIELDS SIDEWALKS
BLUFFTON, SOUTH CAROLINA

TOWN OF BLUFFTON
P.O. BOX 386 20 BRIDGE STREET
BLUFFTON, SOUTH CAROLINA 29910
PHONE No. (843) 706-4500

JANUARY 2016
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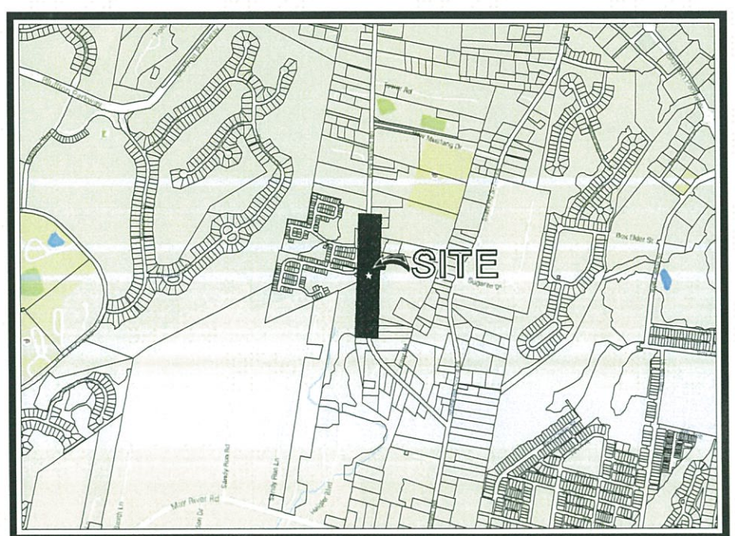

VICINITY MAP
SCALE: 1"=1000'

HUSSEY GAY BELL
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SHEET NO.	DESCRIPTION
1	COVER SHEET, VICINITY MAP AND SCHEDULE OF DRAWINGS
2	CONSTRUCTION NOTES & LEGEND
3	EROSION AND SEDIMENT CONTROL PLAN
4	LAYOUT PLAN
5	GRADING PLAN
6	CONSTRUCTION DETAILS

SCHEDULE OF DRAWINGS

BUCK ISLAND – TOY FIELDS SIDEWALKS
CDBG GRANT NUMBER 4-V-12-007

CONSTRUCTION NOTES:

GENERAL NOTES:

1. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES ON THE DRAWINGS, OR IN THE FIELD PRIOR TO BEGINNING WORK OR DURING CONSTRUCTION, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER.
2. CONTRACTOR IS TO VERIFY ALL EXISTING SITE CONDITIONS AND REPORT ANY CONFLICTS TO THE ENGINEER.
3. A COMPLETE SET OF APPROVED DRAWINGS MUST BE MAINTAINED ON SITE AT ALL TIMES THAT THE CONTRACTOR IS PERFORMING WORK.
4. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION AND IS RESPONSIBLE FOR ANY DAMAGE TO THEM DURING CONSTRUCTION. THERE MAY BE ADDITIONAL UTILITIES OTHER THAN THOSE DEPICTED ON THESE PLANS.
5. CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION / RELOCATION / PROTECTION OF UTILITIES BY THE APPROPRIATE UTILITY COMPANY.
6. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL HORIZONTAL AND VERTICAL CONTROLS ON THE PROJECT.
7. TEMPORARY SOIL EROSION AND SEDIMENT CONTROLS (SILT FENCES) SHALL BE PLACED AT ALL INLETS AND PIPES UNTIL SOIL STABILIZATION IS COMPLETE. TEMPORARY MEASURES SHALL BE REMOVED AFTER STABILIZATION IS COMPLETE (INCLUDING SILT FENCE).
8. THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS OF FEDERAL, STATE, COUNTY AND LOCAL MUNICIPALITIES/AUTHORITIES.
9. ALL MATERIALS, METHODS AND DETAILS OF CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF BEAUFORT COUNTY, S.C.D.O.T., THE TOWN OF BLUFFTON, BJWSA AND/OR THE APPROPRIATE UTILITY COMPANY, WHICHEVER TAKES PRECEDENCE.
10. CONTRACTOR SHALL VERIFY THAT ALL NECESSARY CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO THE COMMENCEMENT OF THE PROJECT.
11. THE CONTRACTOR IS REQUIRED TO MEET ALL APPLICABLE FEDERAL, OSHA, STATE & LOCAL REGULATIONS CONCERNING PROJECT SAFETY AND ASSUMES FULL RESPONSIBILITY FOR SAFETY ON THE PROJECT.
12. TRANSFER OF SITE BENCHMARKS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL ONLY BE DONE BY A S.C. LICENSED LAND SURVEYOR.
13. GENERAL CONTRACTOR SHALL OVERSEE INSTALLATION OF UTILITIES AND COORDINATE WITH ALL DISCIPLINES TO AVOID CONFLICTS.
14. IN THE EVENT OF A CONFLICT WITH WATER, SEWER, DRAINAGE OR OTHER UTILITY LINES, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER PRIOR TO MAKING FIELD ADJUSTMENTS.
15. A SET OF APPROVED DCRM DRAWINGS MUST BE ON-SITE AT ALL TIMES; DCRM PLACARD MUST BE CLEARLY DISPLAYED AT ALL TIMES.
16. ALL PROPERTY/RIGHT-OF-WAY LINES ARE APPROXIMATE, UNLESS MONUMENT OR PIN LOCATIONS ARE SHOWN.
17. ALL PROPERTY MONUMENTS AND RIGHT-OF-WAY MONUMENTS THAT ARE DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY A LICENSED SURVEYOR. CONCRETE MONUMENT MARKERS SHALL BE A MINIMUM OF 4"X 4"X 30".
18. ALL WORK SHALL BE PERFORMED IN A MANNER AS TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE POSSIBLE. AT LEAST ONE TRAVEL LANE MUST REMAIN OPEN AT ALL TIMES. ALL TRAFFIC CONTROL DEVICES, SIGNS, STRIPING AND FLAGGING SHALL BE FURNISHED BY THE CONTRACTOR.
19. ALL EXISTING DRIVES SHALL BE PROVIDED INGRESS/EGRESS ROUTES AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.
20. THE CONTRACTOR SHALL NOT LEAVE DRAINAGE DITCHES BLOCKED, EXCEPT FOR A BRIEF TIME DURING ACTUAL INSTALLATION OF INFRASTRUCTURE. PROVIDE TEMPORARY BYPASS DRAINAGE AS REQUIRED TO HAVE PROPERLY FUNCTIONING DRAINAGE AT ALL TIMES. THE DITCHES SHALL BE CLEAR OF OBSTRUCTIONS CREATED BY CONSTRUCTION AT THE END OF EACH WORKING DAY.
21. REMOVE AND REPLACE DRIVEWAYS AND CULVERTS AS REQUIRED FOR SIDEWALK INSTALLATION, OR IF NECESSARY REPLACE ANY DAMAGED CULVERTS DURING SIDEWALK INSTALLATION. ALL REPLACED ITEMS SHALL BE REPLACED TO PRE-CONSTRUCTION CONDITION AT A MINIMUM.
22. ALL MATERIALS WHICH ARE TO BE REMOVED AND ARE NOT SHOWN TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
23. IF SIDEWALK IS LOCATED WITHIN 5' OF POWER POLES, CONTRACTOR MUST NOTIFY THE POWER COMPANY AND TAKE ALL PRECAUTIONS AS REQUIRED BY THE POWER COMPANY. STABILIZATION REQUIRED THE SAME DAY AS DISTURBANCE OCCURS. ALL GUY WIRE RELOCATIONS OR TEMPORARY UTILITY DISCONNECTIONS AND ASSOCIATED FEES SHALL BE COORDINATED AND PROVIDED BY THE CONTRACTOR WITH THE APPROPRIATE UTILITY.
24. CONTRACTOR SHALL PAY SPECIAL ATTENTION TO ANY UNDERGROUND TELEPHONE, FIBER OPTIC CABLES, GAS MAINS, WATER MAINS, OVERHEAD POWER, ETC. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION NECESSARY FOR SAFETY IN AREAS WHERE CONSTRUCTION ACTIVITIES REQUIRE SUCH. THE CONTRACTOR SHALL HAVE UTILITY COMPANY WRAP LINES, SUPPORT POLES, ETC. THE CONTRACTOR SHALL PAY ALL FEES TO THE APPROPRIATE UTILITY FOR THEIR WORK.
25. ALL EXISTING UTILITY SERVICE LINES SHALL REMAIN IN SERVICE DURING CONSTRUCTION. THE CONTRACTOR SHALL PROMPTLY REPAIR ANY UTILITY SERVICE LINE THAT IS INADVERTENTLY DAMAGED. IF TEMPORARY UTILITY SERVICE DISCONNECTION CANNOT BE AVOIDED, THE CONTRACTOR SHALL NOTIFY THE PROPER AUTHORITY A MINIMUM OF 24 HOURS IN ADVANCE.
26. THE CONTRACTOR SHALL SCHEDULE AND ACCOMPLISH THE WORK SO AS TO MINIMIZE ANY INCONVENIENCE TO PROPERTY OWNERS.
27. SURVEY DATUM: VERTICAL: NGVD 29, HORIZONTAL: SOUTH CAROLINA STATE PLANE COORDINATES: NAD83.
28. UTILITY LOCATIONS ARE SHOWN BY SURFACE MARKINGS BY OTHERS, THEREFORE LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY.
30. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES. BEFORE ANY WORK NEAR AN EXISTING UTILITY, THE CONTRACTOR SHALL CONTACT THE OWNER OF THE SUBJECT UTILITY AND COORDINATE CONSTRUCTION AND NECESSARY PRECAUTIONS FOR PROTECTION OF THE SUBJECT UTILITY. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
31. ALL EXCAVATION WITHIN 5' OF THE PAVED SCDOT ROADWAY (SIMMONSVILLE ROAD) SHALL BE BACKFILLED WITH FLOWABLE FILL. IN AREAS OF ASPHALT PAVING, FLOWABLE FILL SHALL BE USED TO WITHIN TWO INCHES OF THE FINISHED SURFACE WHERE SCDOT TYPE 'B' HOT MIXED ASPHALT SHALL BE USED FOR THE WEARING SURFACE.
32. ALL SILT FENCE SHALL BE STAKED CLEARLY DEFINING TRANSITION ZONES OF DIFFERENT TYPES PRIOR TO INSTALLATION.
33. IF PAVERS ARE SHOWN IN THE LOCATION OF AN EXISTING DRIVEWAY (EARTH, CONCRETE, ASPHALT, ROCK, ETC.), THE CONTRACTOR SHALL CONTACT THE TOWN OF BLUFFTON IMMEDIATELY FOR DIRECTION.
34. 4" ELECTRICAL CONDUITS SHALL BE PLACED AS DIRECTED BY THE OWNER. CONDUITS SHALL BE 10' IN LENGTH AND EXTEND A 3' (MIN) - 5' (MAX) BEYOND EDGE OF SIDEWALK. ALL CONDUITS SHALL BE SCH 40 PVC, GRAY IN COLOR, AND HAVE 30" OF COVER FROM FINISHED GRADE. ONE #3 REBAR, 24" IN LENGTH, SHALL BE PLACED AT THE END OF EACH CONDUIT AND HAVE 6" OF BURIAL DEPTH. ECH CONDUIT SHALL BE CAPPED AND HAVE A PULL CORD THAT TRAVELS THE ENITRE LENGTH OF THE CONDUIT, EXITING PRE DRILLED HOLES IN THE END CAPS. QUANTITIES HAVE BEEN PROVIDED IN THE BID PROPOSAL, BUT NO CONDUITS SHALL BE INSTALLED UNTIL DIRECTED BY THE OWNER.

OWNER INFORMATION:

TOWN OF BLUFFTON
C/O JEFF WIGGINS
P.O. BOX 386
20 BRIDGE STREET
BLUFFTON, SOUTH CAROLINA 29910
PHONE: 843-706-4500

PAVING, GRADING AND DRAINAGE PLAN NOTES:

1. SEE GENERAL NOTES.
2. THE CONTRACTOR SHALL REMOVE ALL STRIPPING, DEBRIS AND EXCESS EXCAVATED MATERIALS FROM THE SITE.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATIONS AND GRADING INCLUDING FURNISHING OFF-SITE BORROW AS REQUIRED TO MEET PLAN GRADES.
4. IF UNSUITABLE SUBGRADE MATERIALS ARE ENCOUNTERED, THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT (FROM OFF-SITE BORROW MATERIAL) OF ALL UNSUITABLE MATERIAL TO MEET COMPACTION REQUIREMENTS UNDER PAVED SURFACES. UNSUITABLE MATERIALS ARE THOSE CLASSIFIED AS MH, CH, OH, OL AND PEAT IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, UNLESS APPROVED IN WRITING BY THE PROJECT MANAGER. THE SITE ENGINEER AND PROJECT MANAGER SHALL BE NOTIFIED IMMEDIATELY UPON ENCOUNTERING UNSUITABLE SUBGRADE MATERIAL.
5. GRADE ALL DISTURBED AREAS TO PROVIDE POSITIVE DRAINAGE TO EXISTING OR NEW DRAINAGE FACILITIES. NO COLLECTION 'POCKETS' SHALL BE CREATED BY WORK SHOWN IN THESE PLANS.
6. ALL FINISHED SURFACES SHALL BE FREE FROM SURFACE IRREGULARITIES.
7. LOCATIONS AND TOP/INVERT ELEVATIONS OF INLETS/PIPES AND STRUCTURES WILL BE ADJUSTED IN THE FIELD BY THE CONTRACTOR WHERE NECESSARY AND SHALL BE APPROVED BY THE ENGINEER AND OWNER PRIOR TO MAKING FIELD ADJUSTMENTS.
8. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING AS NECESSARY TO MEET REQUIRED EXCAVATIONS AND GRADES. DEWATERING OPERATIONS SHALL NOT DISCHARGE DIRECTLY INTO WETLAND AREAS. SETTLING BASINS AND SILT FENCING/SILT BAGS SHALL BE UTILIZED TO PREVENT DISCHARGE OF SILTS INTO THESE AREAS.
9. INVERTS SHOWN ON THE PLAN ARE PIPE INVERTS.
10. TEMPORARY SOIL EROSION AND SEDIMENT CONTROLS (SILT FENCES) SHALL BE PLACED AT ALL INLETS AND PIPES UNTIL SOIL STABILIZATION IS COMPLETE.
11. ANY SUBSTITUTION FOR MATERIALS OR PROCEDURES MUST HAVE PRIOR WRITTEN APPROVAL OF PROJECT ENGINEER OR OWNER.
12. EACH PARCEL SHALL HAVE ITS YARD, LANDSCAPING, DRIVEWAY, ETC. REESTABLISHED UPON THE COMPLETION OF INFRASTRUCTURE FOR THAT PARTICULAR PARCEL.
13. PROVIDE POSTIVE DRAINAGE FOR THE PROPOSED SIDEWALK THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT.

WATER AND SEWER PLAN NOTES:

1. SEE GENERAL NOTES.
2. GENERAL CONTRACTOR SHALL OVERSEE INSTALLATION OF UTILITIES AND COORDINATE WITH ALL DISCIPLINES TO AVOID CONFLICTS.
3. IN THE EVENT OF A CONFLICT WITH WATER, SEWER, DRAINAGE OR OTHER UTILITY LINES, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER PRIOR TO MAKING FIELD ADJUSTMENTS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE CONNECTION OF NEW UTILITIES TO EXISTING WATER AND SEWER SYSTEMS.
5. CONTRACTOR SHALL NOTIFY ENGINEER TEN DAYS IN ADVANCE OF BEGINNING ANY UTILITY CONSTRUCTION TO ALLOW FOR PROPER S.C.D.H.E.C. NOTIFICATION.
6. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING AS NECESSARY TO MEET REQUIRED EXCAVATIONS AND GRADES. DEWATERING OPERATIONS SHALL NOT DISCHARGE DIRECTLY INTO MARSH OR WETLAND AREAS. SETTLING BASINS AND SILT FENCING/SILT BAGS SHALL BE UTILIZED TO PREVENT DISCHARGE OF SILTS INTO THESE AREAS.
7. CONTRACTOR SHALL VERIFY EXISTING DEPTH, MATERIALS AND LOCATION OF EXISTING WATER MAINS BEING TIED INTO, PRIOR TO CONSTRUCTION.
8. CONSTRUCTION OF THE WATER SYSTEM AND CONNECTION TO THE EXISTING WATER SYSTEM SHALL MEET THE REQUIREMENTS OF AND SHALL BE INSTALLED UNDER THE DIRECTION OF BEAUFORT-JASPER WATER AND SEWER AUTHORITY.
9. ALL WATER LINES SHALL HAVE 36" MINIMUM COVER FROM FINISHED GRADE.
10. CONTRACTOR SHALL USE A SECTION OF POLYWRAPPED D.I.P. AT ANY CROSSING OF POTABLE WATER LINE AND STORM DRAINAGE PIPE OR BOTTOM OF DRAINAGE STRUCTURE, OR SANITARY SEWER LINE WITH LESS THAN 18" VERTICAL OR 10' HORIZONTAL SEPARATION. ALONG WITH D.I.P. PIPE, TWO D.I.P. - PVC ADAPTERS OR APPROVED EQUAL WILL BE CONSTRUCTED AT BOTH ENDS OF D.I.P.
11. CONTRACTOR SHALL USE BENDS AS SHOWN ON THE PLANS, AT A MINIMUM, MANUFACTURER'S ALLOWABLE DEFLECTION AND MINOR BENDS AS NEEDED TO LAY WATER MAIN AS SHOWN. ALL BENDS SHALL BE D.I.P. COSTS FOR ALL BENDS SHALL BE INCLUDED IN THE BID PRICE.
12. CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATIONS, MATERIALS AND LOCATION OF EXISTING SANITARY SEWER LINES AND MANHOLES BEING TIED INTO, PRIOR TO CONSTRUCTION.
13. CONSTRUCTION OF THE SANITARY SEWER SYSTEM AND CONNECTION TO THE EXISTING SEWER SYSTEM SHALL MEET THE REQUIREMENTS OF AND SHALL BE INSTALLED UNDER THE DIRECTION OF BEAUFORT-JASPER WATER AND SEWER AUTHORITY.
14. SANITARY SEWER LINES NOT HAVING 36" OF COVER SHALL BE DUCTILE IRON PIPE. APPROVED ADAPTERS SHALL BE CONSTRUCTED AT ANY PVC CONNECTIONS.
15. CONTRACTOR SHALL USE A SECTION OF POLYWRAPPED D.I.P. AT ANY CROSSING OF SANITARY SEWER LINE AND STORM DRAINAGE PIPE OR BOTTOM OF DRAINAGE STRUCTURE, OR POTABLE WATER LINE WITH LESS THAN 18" VERTICAL OR 10' HORIZONTAL SEPARATION. ALONG WITH D.I.P. PIPE, TWO D.I.P. - PVC ADAPTERS OR APPROVED EQUAL WILL BE CONSTRUCTED AT BOTH ENDS OF D.I.P.
16. ALL SEWER LINE TIES INTO MANHOLES WILL HAVE A MINIMUM ANGLE OF 90 DEGREES TO DOWNSTREAM SEWER LINE, UNLESS OTHERWISE SHOWN.
17. PROPOSED SANITARY SEWER MANHOLE TOP ELEVATIONS ARE APPROXIMATE AND SHALL BE ADJUSTED IN THE FIELD TO BE SET 0.2 FEET ABOVE FINISHED GRADE IN GRASSED AREAS AND FLUSH IN PAVED AREAS.
18. ANY DUCTILE IRON PIPES AND FITTINGS REQUIRE HIGH DENSITY POLYWRAP.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH INSPECTION AND TESTING OF WATER AND SEWER LINES AND APPURTENANCES.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND COSTS ASSOCIATED WITH TEMPORARY WATER SERVICE. IF REQUIRED, TEMPORARY CONNECTIONS OR HYDRANT CONNECTIONS SHALL BE UTILIZED IN STRICT ADHERENCE TO THE CURRENT UTILITY GUIDELINES. FAILURE TO FOLLOW SAID GUIDELINES COULD RESULT IN FINES BY THE UTILITY FOR WHICH CONTRACTOR IS FULLY RESPONSIBLE.
21. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AS CONSTRUCTED RECORD DRAWINGS WHICH MEET ALL APPLICABLE UTILITY REQUIREMENTS. THE ENGINEER SHALL BE PROVIDED A COPY OF ALL RECORD DRAWING INFORMATION.
22. THE CONTRACTOR SHALL PROVIDE BJWSA AND THE TOWN WITH INVERT ELEVATIONS OF THE STEEL CASING FOR THE JACK AND BORES (VERIFIED BY A S.C. LICENSED SURVEYOR) BEFORE INSTALLING CARRIER PIPE. THE CONTRACTOR SHALL NOT INSTALL CARRIER PIPE IN THE JACK AND BORES UNTIL AUTHORIZED TO DO SO, IN WRITING, BY BJWSA AND THE TOWN. IF THE CASING IS NOT INSTALLED AT THE SLOPE SPECIFIED (AT A MINIMUM) THE CONTRACTOR SHALL INCUR ALL COSTS ASSOCIATED WITH CORRECTLY INSTALLING THE CASING.

SEDIMENTATION AND EROSION CONTROL NOTES:

PROJECT NARRATIVE:
PROJECT CONSISTS OF CONSTRUCTION OF SIDEWALK EXTENSIONS ALONG BUCK ISLAND ROAD WITHIN THE JURISDICTION OF THE TOWN OF BLUFFTON. THE SITE WILL BE RESTORED TO ITS EXISTING CONDITION WITH THE EXCEPTION OF THE PROPOSED SIDEWALK.

1. SEE GENERAL NOTES.
2. IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHALL BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
3. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN (7) DAYS AFTER WORK HAS CEASED.
4. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER. IF SITE INSPECTIONS INDENTIFY BMPS THAT ARE DAMAGED OR ARE NOT OPERATING EFFECTIVELY, MAINTENANCE MUST BE PERFORMED AS SOON AS PRACTICAL OR AS REASONABLY POSSIBLE AND BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE.
5. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION FILL COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
6. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION.
7. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES, INCLUDING SILT FENCE AND TREE PROTECTION FENCE, SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
8. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO THE PAVED ROADWAY FROM CONSTRUCTION AREAS. THE CONTRACTOR SHALL DAILY (OR MORE OFTEN IF NECESSARY) REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
9. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ. AND SCR100000.
10. TEMPORARY DIVERSION BERMS AND/OR DITCHES SHALL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
11. APPROVED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING, GRADING, EXCAVATION, FILLING OR OTHER LAND-DISTURBING ACTIVITIES, EXCEPT THOSE OPERATIONS REQUIRED TO INSTALL SUCH MEASURES. THE CONTRACTOR SHALL OBTAIN TOWN OF BLUFFTON EROSION CONTROL ACCEPTANCE BY THE GROWTH MANAGEMENT DEPARTMENT'S OFFICE OF CONSTRUCTION AND COMPLIANCE.
12. WHEN ACCESSING SITE, PROVIDE A 50' LONG BY 20' WIDE (MIN) TEMPORARY CONSTRUCTION EXIT STABILIZED WITH GEOTEXTILE FABRIC AND 6" THICK GRAVEL SURFACE COURSE. CONSTRUCTION EXIT SHALL BE RELOCATED AS PROJECT PROGRESSES.
13. TEMPORARY SEDIMENT TRAPS SHALL BE ACCEPTED WITH THE UNDERSTANDING THAT MASONRY INLETS SHALL BE LEFT LOW ENOUGH, DURING CONSTRUCTION, FOR WATER TO ENTER.
14. FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES MAY RESULT IN CONSTRUCTION BEING HALTED.
15. SEE SEEDING SCHEDULE FOR TEMPORARY STABILIZATION.
16. SEE DETAIL SHEETS FOR EROSION CONTROL DETAILS.
17. MAINTENANCE RESPONSIBILITY OF ALL STORM DRAINAGE PIPING AND STRUCTURES SHALL REMAIN WITH THE GENERAL CONTRACTOR DURING CONSTRUCTION.
18. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN THE STORM WATER DISCHARGES.
19. NO TEMPORARY FUEL TANKS, PERMITTED OR NOT, WILL BE ALLOWED TO BE ON SITE UNLESS IT IS IN THE PROCESS OF FUELING EQUIPMENT. FUEL TRUCKS/TRAILERS ARE ONLY ALLOWED ON SITE WHILE IN THE ACT OF FUELING EQUIPMENT.
20. ALL WATERS OF THE STATE (WoS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WoS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WoS.

LEGEND:

	EXISTING	PROPOSED
ASPHALT PAVING		
CONCRETE SIDEWALK		
SAWCUT & REMOVAL OF EXISTING PAVEMENT		
STORM DRAINAGE PIPE		
SANITARY SEWER PIPE	—SAN—	
WATER MAIN	—8"W—	
WATER VALVE		
FIRE HYDRANT		
CONTOURS	28	
SPOT ELEVATION (TOP OF WALK)	19.91	TW28.80
DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING		Ds2
DISTURBED AREA STABILIZATION WITH PERMANENT SEEDING		Ds3
TEMPORARY SEDIMENT BARRIER SILT FENCE, TYPE "A"		Sd1-A
TEMPORARY SEDIMENT BARRIER SILT FENCE, TYPE "C"		Sd1-C
CHECK DAM (DITCH CHECK)		Cd
CHECK DAM (STONE)		Cd-S
WETLANDS		WETLAND LINE
SOIL TYPE		Sw / Ba

SEEDING SCHEDULE Ds2 | Ds3

WINTER/SPRING

SEEDING MIXTURE:

SPECIES	RATE (LB/ACRE)
RYE (GRAIN)	120
ANNUAL LESPEDEZA (KOBE IN PIEDMONT AND COASTAL PLAIN, KOREAN IN MOUNTAINS	50

OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE.

SEEDING DATES:
MOUNTAINS - ABOVE 2500 FT: FEB. 15 - MAY 15
BELOW 2500 FT: FEB. 1 - MAY 1
PIEDMONT - JAN.1 - MAY 1
COASTAL PLAIN - DEC.1 - APR.15

SOIL AMENDMENTS:
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

MULCH:
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:
RE-FERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, RE-FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

SUMMER

SEEDING MIXTURE:

SPECIES	RATE (LB/ACRE)
GERMAN MILLET	40

IN THE PIEDMONT AND MOUNTAINS, A SMALL-STEMMED SUDANGRASS MAY BE SUBSTITUTED AT A RATE OF 50 LB/ACRE.

SEEDING DATES:
MOUNTAINS - MAY 15 - AUG. 15
PIEDMONT - MAY 1 - AUG. 15
COASTAL PLAIN - APR. 15 - AUG. 15

SOIL AMENDMENTS:
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

MULCH:
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:
RE-FERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, RE-FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

FALL

SEEDING MIXTURE:

SPECIES	RATE (LB/ACRE)
RYE	120

SEEDING DATES:
MOUNTAINS- AUG. 15 -DEC. 15
COASTAL PLAIN & PIEDMONT- AUG. 15 - DEC. 30 AND - APR. 15 - AUG. 15

SOIL AMENDMENTS:
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

MULCH:
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:
REPAIR AND RE-FERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LB/ACRE OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/ACRE KOBE (PIEDMONT AND COASTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

FLOOD ZONE NOTE:

IN MY OPINION, IN ACCORDANCE WITH FIRM MAP NO.450025-0085-D, REVISED SEPTEMBER 29,1986, THIS PROPERTY DOES NOT FALL WITHIN THE LIMITS OF THE 100-YR. FLOOD PLAIN (ZONE AE).

SEQUENCE OF CONSTRUCTION:

1. INSTALL EROSION CONTROL DEVICES & TREE BARRICADES AS SHOWN ON PLANS.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCES AS REQUIRED.
3. CLEAR AND GRUB AS REQUIRED.
4. INSTALL CONCRETE SIDEWALK.
5. FINE GRADING, LANDSCAPING AND GRASSING.
6. REMOVE EROSION CONTROL DEVICES & TREE BARRICADES AFTER SOIL STABILIZATION.

SOUTH CAROLINA No. 28714 PROFESSIONAL 7-2-16 CHRISTOPHER J. CHANCE

HUSSEY GAY BELL
Established 1958
329 Commercial Drive, Savannah, GA 31406 / T: 912.354.4626

REVISIONS: REVISIONS PER SCDOT. 02/01/2016

DESIGNED	DRAWN	CHECKED
CJC	JJM	CJC

DATE: JANUARY 2015
JOB NO. 115273815
SCALE: N.T.S.

TOY FIELDS SIDEWALKS
BUCK ISLAND ROAD
BLUFFTON, SOUTH CAROLINA
FOR
TOWN OF BLUFFTON

CONSTRUCTION NOTES & LEGEND

DRAWING NUMBER
2
OF 8

Feb 02, 2016 - 2:45pm Plotted By: lmcbride
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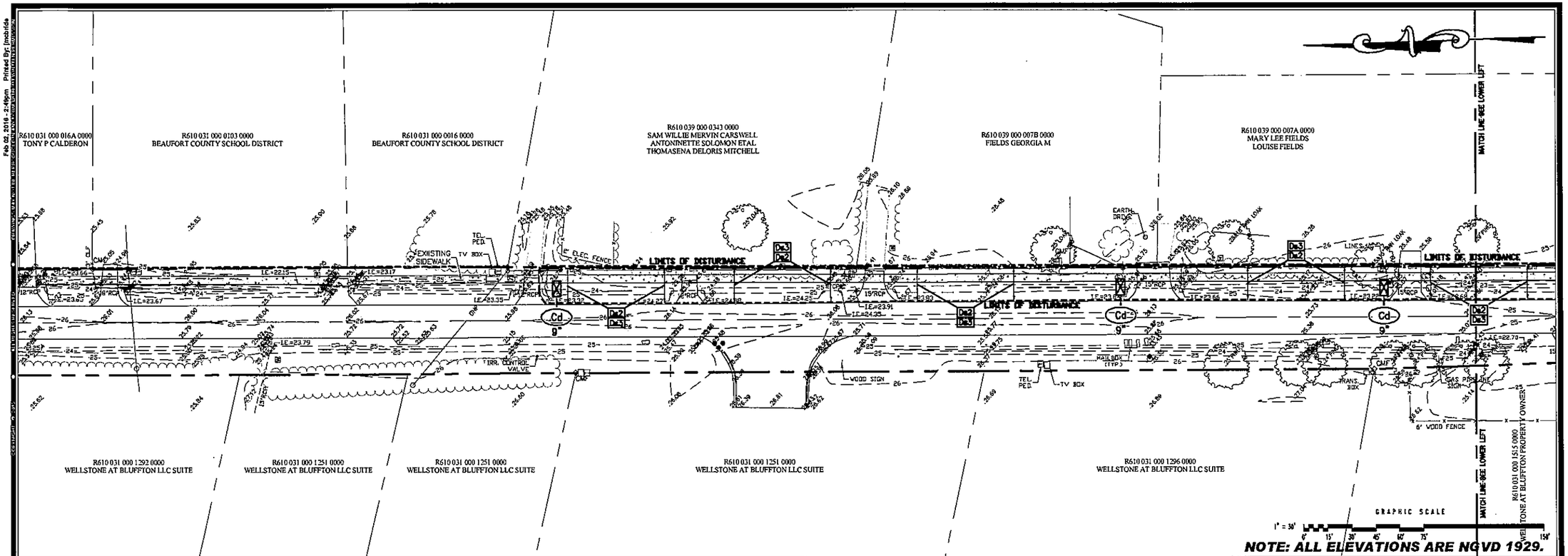
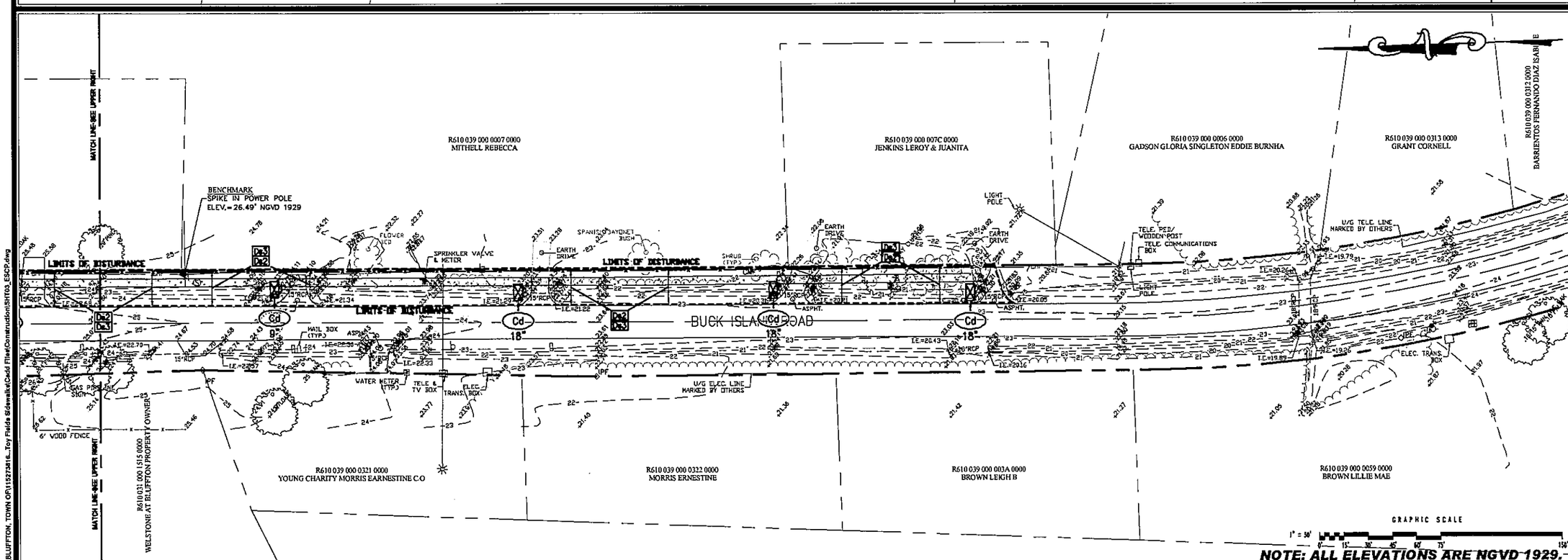


NOTE: ALL ELEVATIONS ARE NGVD 1929.



NOTE: ALL ELEVATIONS ARE NGVD 1929.

SOUTH CAROLINA No. 28714 PROFESSIONAL ENGINEER 2-2-16 CHRISTOPHER J. CHANCE, JR.

HUSSEY GAY BELL

Established 1958

329 COMMERCIAL DRIVE, SAVANNAH, GA 31406 / T:912.354.4626

REVISIONS:
REVISIONS PER SCOOT: 02/01/2016

DESIGNED	DRAWN	CHECKED
CJC	JJM	CJC

DATE: JANUARY 2016

JOB NO. 115273818

SCALE: 1" = 30'

TOY FIELDS SIDEWALKS

BUCK ISLAND ROAD
BLUFFTON, SOUTH CAROLINA
FOR
TOWN OF BLUFFTON

EROSION AND SEDIMENT CONTROL PLAN

DRAWING NUMBER

3

OF 6

Feb 02, 2016 - 2:49pm Printed By: jmobride

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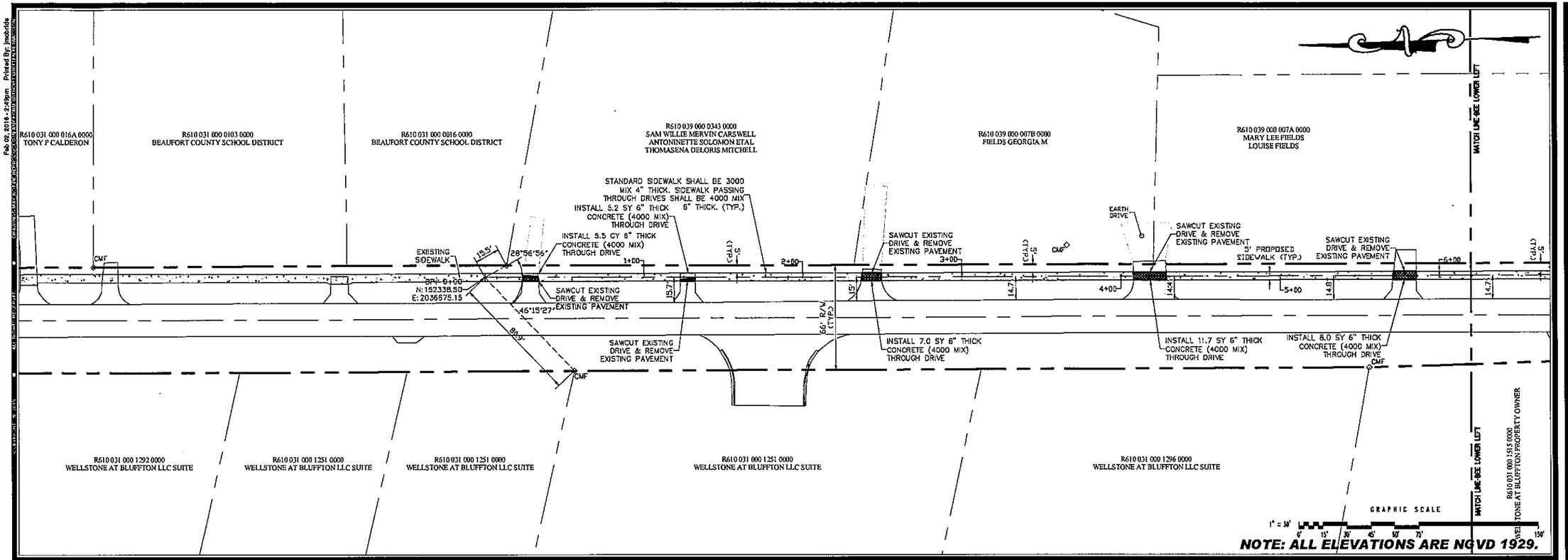

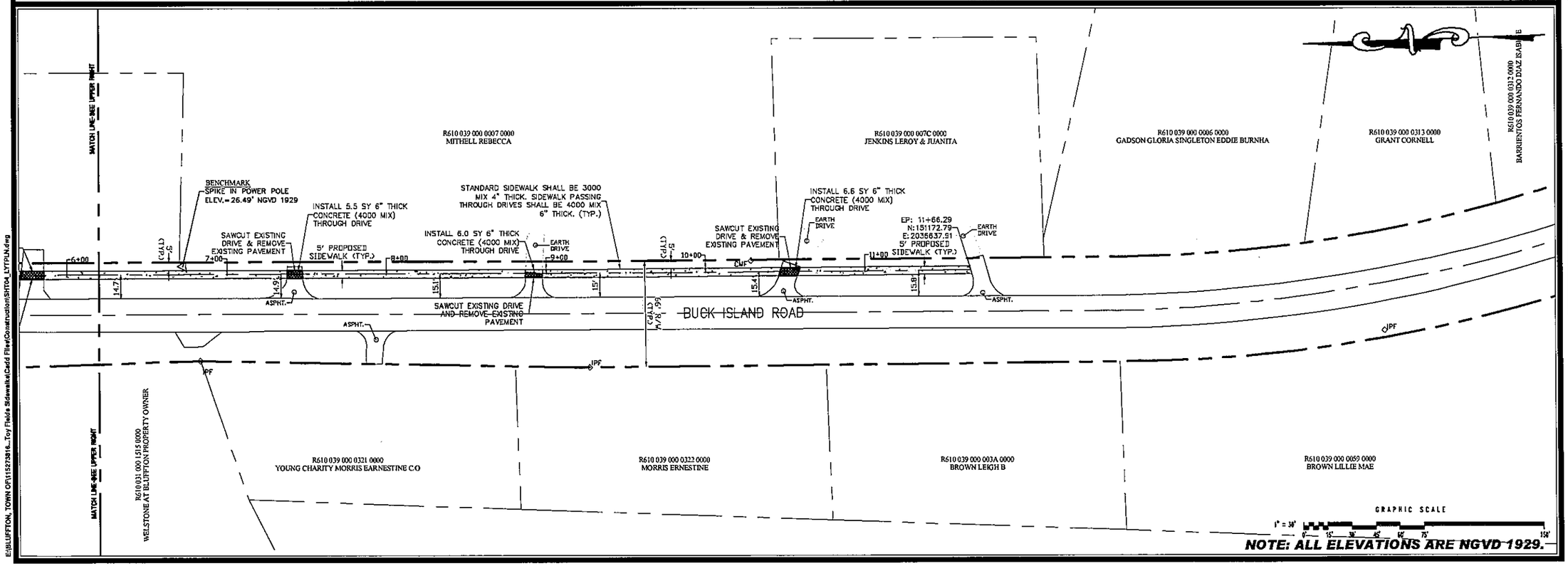

SOUTH CAROLINA
No. 28714
PROFESSIONAL
7-2-16
CHRISTOPHER J. CHANCE

HUSSEY GAY BELL

Established 1958

329 Commercial Drive, Savannah, GA 31406 / T: 912.354.4626

REVISIONS:
REMARKS FOR SCDOT: 02/01/2016

DESIGNED	DRAWN	CHECKED
CJC	JJM	CJC

DATE: JANUARY 2016

JOB NO. 118273818

SCALE: 1" = 30'

TOY FIELDS SIDEWALKS

BUCK ISLAND ROAD
BLUFFTON, SOUTH CAROLINA
FOR
TOWN OF BLUFFTON

LAYOUT PLAN

DRAWING NUMBER

4

OF 6

Feb 02, 2016 - 2:49pm Printed By: jmcbride

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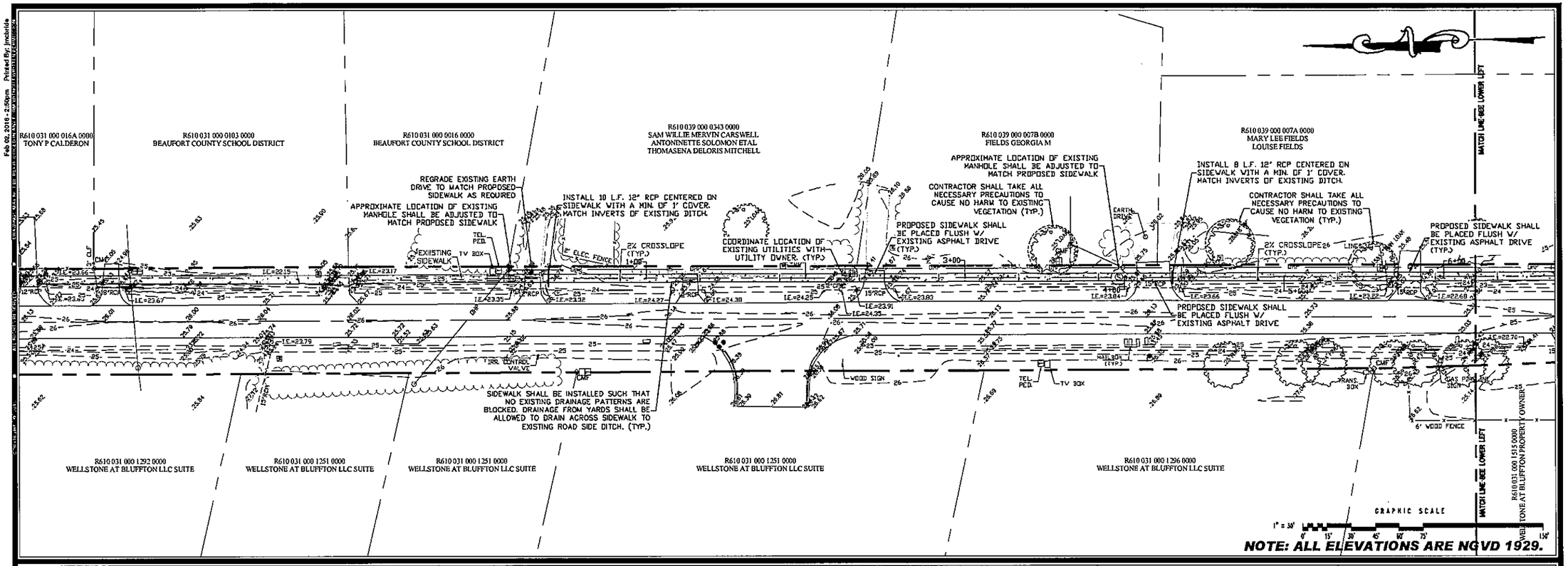
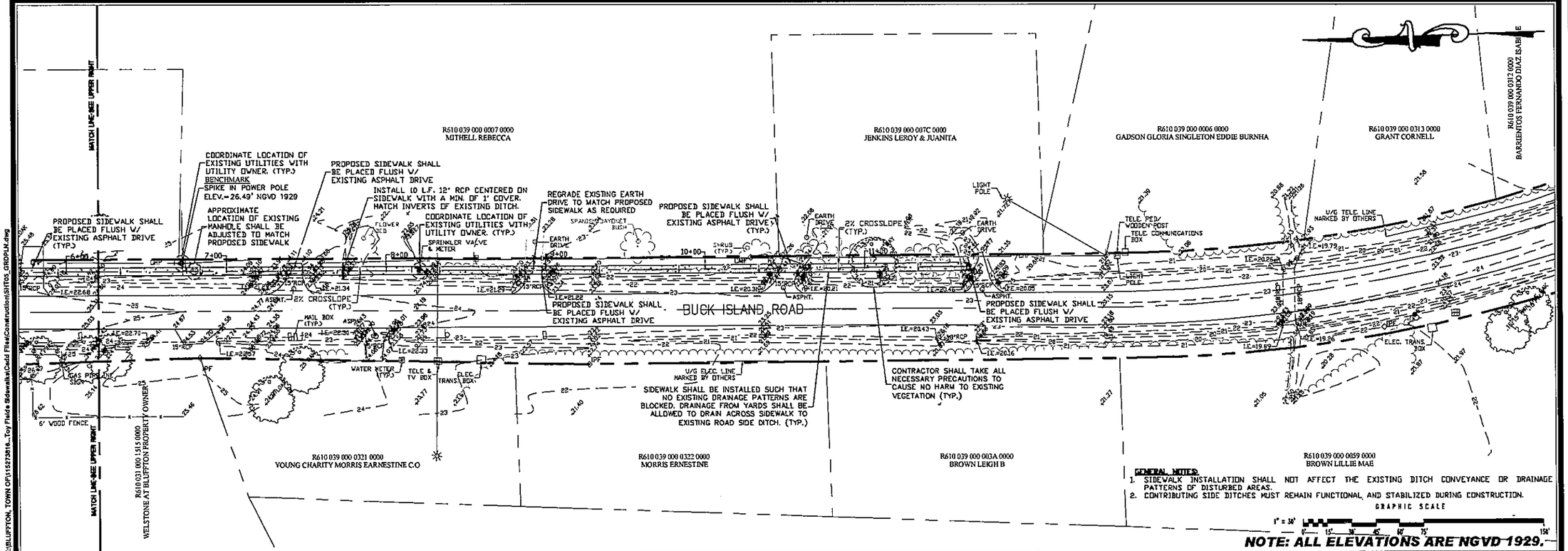


NOTE: ALL ELEVATIONS ARE NGVD 1929.



GENERAL NOTES:

1. SIDEWALK INSTALLATION SHALL NOT AFFECT THE EXISTING DITCH CONVEYANCE OR DRAINAGE PATTERNS OF DISTURBED AREAS.
2. CONTRIBUTING SIDE DITCHES MUST REMAIN FUNCTIONAL, AND STABILIZED DURING CONSTRUCTION.

NOTE: ALL ELEVATIONS ARE NGVD 1929.

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 28714 CHRISTOPHER J. CHANCE JR.

HUSSEY GAY BELL
Established 1958
329 Commercial Drive, Savannah, GA 31406 / T:912.354.4626

REVISIONS:
REVISIONS PER SCDOT 02/01/2016

DESIGNED CJC	DRAWN JJW	CHECKED CJC

DATE: JANUARY 2015
JOB NO. 115273818
SCALE: 1" = 30'

TOY FIELDS SIDEWALKS

BUCK ISLAND ROAD
BLUFFTON, SOUTH CAROLINA
FOR
TOWN OF BLUFFTON

GRADING PLAN

DRAWING NUMBER
5
OF 8

Feb 02, 2016 - 2:59pm Printed By: jwclarida
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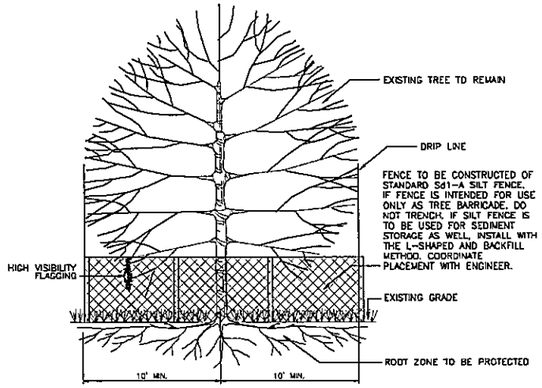
TREE PROTECTION NOTES:

PROTECTIVE TREE BARRICADE TO BE PLACED A MINIMUM OF 10' FROM BASE OF TREE PLUS AN ADDITIONAL 1' FOR EACH ADDITIONAL 1" DBH GREATER THAN 10" DBH. ALL WORK DONE WITHIN PROTECTIVE BARRICADES IS TO BE DONE BY HAND. MAINTAIN TREE BARRICADES AT ALL TIMES. ALL ROOTS TO BE REMOVED DURING DEVELOPMENT SHALL BE SEVERED CLEAN AND A 2" LAYER OF MULCH SHALL BE APPLIED OVER THE SURFACE OF EXPOSED ROOTS DURING DEVELOPMENT. NO VARIANCE FROM SPECIFIED MATERIALS SHALL BE PERMITTED FOR TREE BARRICADE WITHOUT PRIOR APPROVAL FROM THE PROJECT MANAGER. A DECREASE IN GRADE SHALL ONLY BE ALLOWED WITH THE USE OF APPROVED RETAINING WALLS OR TERRACING PLANS. THE INSTALLATION OF UTILITIES THROUGH A PROTECTION ZONE MAY BE ALLOWED WITH PRIOR APPROVAL BY BORING OR TUNNELING AS APPROVED BY THE PROJECT MANAGER TRENCHING WILL BE ALLOWED WITHIN THE TREE PROTECTION ZONE ONLY WITH PROJECT MANAGER'S APPROVAL. IMPERVIOUS SURFACE MATERIALS ON RIGID FOUNDATIONS ARE NOT ALLOWED WITHIN THE TREE PROTECTION ZONE. BUILDING FOUNDATIONS AND OTHER SUBGRADE BUILDING ELEMENTS ARE NOT ALLOWED WITHIN THE TREE PROTECTION ZONE. AREAS REMOTE FROM LAND DISTURBANCE SHALL UTILIZE PASSIVE FORMS OF TREE PROTECTION DURING DEVELOPMENT ACTIVITIES. THESE AREAS MUST BE SURROUNDED WITH CONTINUOUS ROPE OR FLAGGING (HEAVY MILL, MINIMUM TWO INCH WIDTH). ALL PASSIVE TREE PROTECTION MUST BE ACCOMPANIED BY "KEEP OUT" OR "TREE PROTECTION AREA" SIGNAGE.

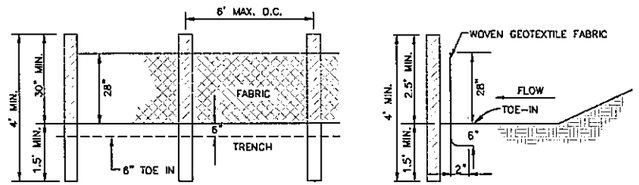


NOTES:

1. COORDINATE ALL PRUNING, TREEWELLS AND TREE BARRICADES WITH THE PROJECT MANAGER.
2. NO GRADE CHANGES WITHIN TREE BARRICADE AREA.
3. POSITIVE DRAINAGE SHALL BE MAINTAINED FOR ALL TREES TO REMAIN
4. ALL PRUNING OF PROTECTED TREES AND GRAND TREES SHALL BE DONE BY A QUALIFIED TREE SERVICE DURING DEVELOPMENT ACCORDING TO THE NATIONAL ARBORISTS ASSOCIATION, PRUNING STANDARDS FOR SHADE TREES.
5. USE TREE PROTECTION AS DIRECTED BY THE TOWN OF BLUFFTON PROJECT MANAGER.

TREE PROTECTION

NOT TO SCALE



FRONT VIEW

SIDE VIEW

TYPE A FABRIC (35")

USE:

1) ON DEVELOPMENTS WHERE THE LIFE OF THE PROJECT IS GREATER THAN OR EQUAL TO 6 MONTHS.
2) WHERE THE SLOPE GRADIENT IS STEEPER THAN 3:1.

POST SIZE

MIN. LENGTH	TYPE OF POST	SIZE OF POST
4'	SOFT WOOD	3" DIA. OR 2X4
4'	OAK	1.5"X1.5"
4'	STEEL	1.3 LB./FT. MIN.

FASTENERS FOR WOOD POST (WIRE STAPLES)

GAUGE	CROWN	LEGS	STAPLES/POST
17 MIN.	3/4" WIDE	1/2" LONG	5 MIN.

FASTENERS FOR WOOD POST (NAILS)

GAUGE	LENGTH	BUTTON HEADS	NAIL/POST
14 MIN.	1"	3/4"	4 MIN.

NOTE: FILTER FABRIC MAY ALSO BE ATTACHED TO THE POST BY WIRE, CORD, AND POCKETS.

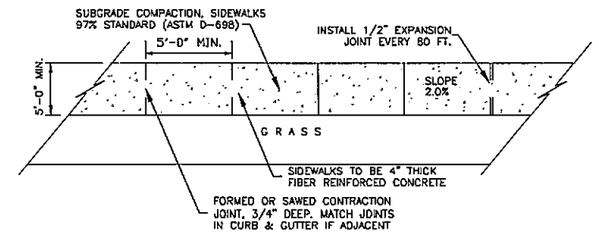
FENCE

TENSILE STRENGTH (LBS. MIN.) (1) (ASTM D-4632)	ELONGATION (%MAX.) (ASTM D-4632)	AOS (APPARENT OPENING SIZE) (MAX SIEVE SIZE) (ASTM D-4751)	FLOW RATE (GAL/MIN./SQ. FT.) (DOT-87)	ULTRAVIOLET STABILITY (2) (ASTM D-4632 AFTER 300 HOURS WEATHERING IN ACCORDANCE WITH ASTM D-4355)	BURSTING STRENGTH MIN. (PSI MIN.) (ASTM D-3786 DIAPHRAGM BURSTING STRENGTH TESTER)	FABRIC WIDTH (INCHES)
WARP-120 FILL-100	40	#30	25	80	175	36

(1) MIN. ROLL AVERAGE OF FIVE SPECIMENS.
(2) PERCENT OF REQUIRED INITIAL MIN. TENSILE STRENGTH.

SEDIMENT BARRIER SILT FENCE - TYPE A

Sd1-A

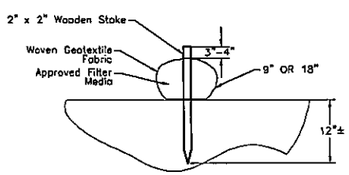


NOTE:

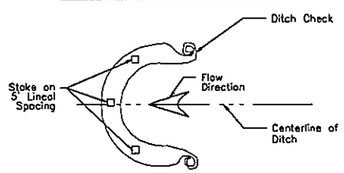
CONTRACTION JOINTS SPACING TO BE THE SAME AS WIDTH OF WALK.

SIDEWALK AND WALKWAY DETAIL

N.T.S.



Ditch Check Section



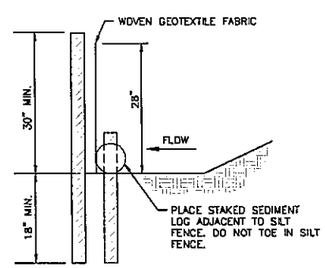
Ditch Check Plan View

Notes:

1. All material to meet manufacturers specifications.
2. Filter/media fill to meet application requirements.
3. BMP depicted is for minimum slopes. Greater slopes may require larger socks per the Engineer.
4. Compost material to be dispersed on site, as determined by Engineer.
5. Geotextile fabric shall meet manufacturers specifications.
6. Filter media/compost shall meet manufacturers specifications.
7. Ditch Check products shall be Filtrex Ditch Chexx, Erosion Eels, BioD-SilChock, or other approved device.

DITCH CHECK

Cd

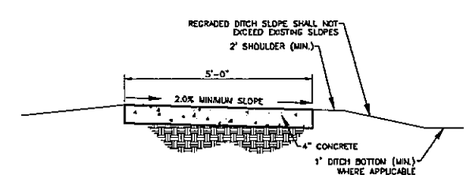


NOTE:

1. SILT FENCE AND SEDIMENT LOGS SHALL BE USED WHEN BARRIER IS LOCATED IN ROOT ZONES OF PRESERVED TREES (I.E. PAVER AREAS).
2. SILT FENCE SHALL NOT BE TOED IN THE AREAS OF THE ROOT ZONE.

SEDIMENT BARRIER SILT FENCE - SEDIMENT LOG

Sd1



PATHWAY PAVING SECTION

NOT TO SCALE

PUBLIC UTILITY NOTES:

1. UTILITY REPRESENTATIVE TO WALK PROPOSED UTILITY ROUTE WITH THE PROJECT MANAGER BETWEEN 48-96 HOURS PRIOR TO INSTALLATION BEGINNING.
2. PUBLIC UTILITY CONTRACTOR WILL REPAIR ALL GRADES, UPON COMPLETION OF INSTALLATION OF MAINS AND LATERALS FOR EACH BUILDING. ALL DRAINAGE SWALES AND EROSION CONTROL SEEDING AND MATTING MUST BE REPLACED BY PUBLIC UTILITY CONTRACTOR.
3. NO ABOVE GROUND UTILITY EQUIPMENT TO BE LOCATED WITHIN 10' OF EXISTING STRUCTURES OR PROTECTED TREES.

SOUTH CAROLINA No. 28714 PROFESSIONAL 6-2-16 CHRISTOPHER J. CHANCE JR.

HUSSEY GAY BELL
Established 1958
329 COMMERCIAL DRIVE, SAVANNAH, GA 31406/T:912.354.4626

REVISIONS: REVISIONS FOR SCDOT 02/01/2016

DESIGNED CJC	DRAWN JJM	CHECKED CJC

DATE: JANUARY 2016

JOB NO. 115273816

SCALE: AS SHOWN

TOY FIELDS SIDEWALKS
BLACK ISLAND ROAD
BLUFFTON, SOUTH CAROLINA
FOR
TOWN OF BLUFFTON

CONSTRUCTION DETAILS

DRAWING NUMBER 6 OF 8

Feb 02, 2016 - 2:50pm Printed By: jmcbride
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