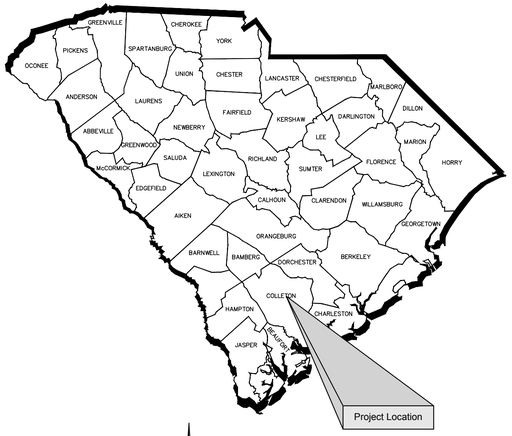
CIVIL ENGINEERING SERVICES FOR COLLETON COUNTY SCHOOL DISTRICT ASPHALT PAVING PROJECT IN COLLETON COUNTY, SOUTH CAROLINA

BLACK STREET EARLY CHILDHOOD CENTER



VICINITY MAP
NOT TO SCALE

SHEET INDEX

	SHEET NO.
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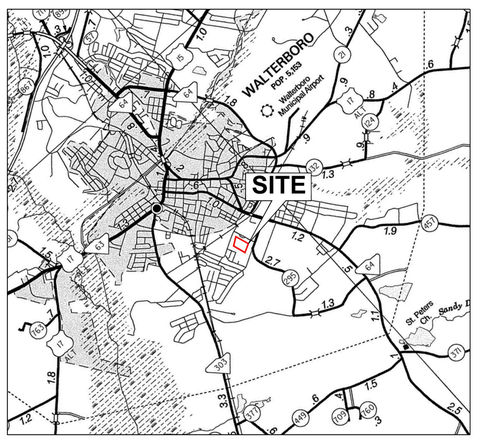
SITE PLAN	C-2.0
EROSION AND SEDIMENT CONTROL PLAN	C-3.0
DETAILS	C-4.0



SITE LOCATION MAP
1" = 1 MILE

SITE INFORMATION TABLE
ADDRESS: 256 SMITH STREET
WALTERBORO, SC 29488

PIN: 180-00-00-102.000

TAX DISTRICT: COUNTY UNINCORPORATED

PROPERTY CLASS: COUNTY GOVERNMENT

WATERSHED: SALKEHATCHIE

RIVER BASIN: SALKEHATCHIE RIVER VIA HORSESHOE CREEK

FEMA FLOOD PANEL #: 45029C0319G

TOTAL DISTURBED AREA.....0.22 ACRES
TOTAL SITE AREA.....15.1 ACRES

TOTAL NEW IMPERVIOUS AREA: 3,658 SF

LEGEND

- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- EXISTING POST INDICATOR VALVE
- EXISTING WATER VALVE
- EXISTING GAS VALVE
- EXISTING LIGHT POLE
- EXISTING STORM DRAIN MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING PROTECTION BOLLARD
- EXISTING SANITARY SEWER CLEANOUT
- EXISTING TREE LINE
- EXISTING POWER POLE
- EXISTING OVERHEAD ELECTRICAL LINE
- EXISTING FIBER-OPTIC CABLE LINE
- EXISTING GAS LINE
- EXISTING FORCE MAIN LINE
- EXISTING FENCE
- EXISTING SANITARY SEWER LINE
- EXISTING EDGE OF PAVEMENT
- EXISTING STORM DRAIN PIPE
- EXISTING STORM DRAIN INLET
- EXISTING WATER LINE
- EXISTING PROPERTY PIN
- EXISTING DUCT BANK
- EXISTING CURB
- EXISTING WETLAND BOUNDARY
- EXISTING HYDRANT
- EXISTING WATER SOURCE OUTLET
- EXISTING CABLE PEDESTAL
- EXISTING TELEPHONE PEDESTAL
- PROPOSED CONTOUR MAJOR
- PROPOSED CONTOUR MINOR
- PROPOSED WATER VALVE
- PROPOSED FIRE PROTECTION LINE
- PROPOSED LIGHT POLE
- PROPOSED PROTECTION BOLLARD
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED FENCE OR JUTE BAFFLES
- PROPOSED SANITARY SEWER LINE
- PROPOSED STORM DRAIN LINE
- PROPOSED WATER LINE
- PROPOSED GRAVEL
- PROPOSED DEMOLITION
- PROPOSED FEATURE
- PROPOSED HYDRANT
- PROPOSED EROSION CONTROL MATTING
- PROPOSED ROCK CHECK DAM
- PROPOSED INLET PROTECTION
- PROPOSED SILT FENCE
- PROPOSED STORM DRAIN INLET
- PROPOSED JUNCTION BOX
- PROPOSED FENCE/COIR BAFFLES
- DRAINAGE FLOW ARROWS
- PROPOSED LIMIT OF DISTURBANCE
- 521.00 PROPOSED SPOT GRADES
- PROPOSED IMPERVIOUS AREA
- PROPOSED HEAVY-DUTY ASPHALT
- PROPOSED LIGHT-DUTY ASPHALT

ARCHITECT
THE FWA GROUP, PA
#10 PALMETTO BUSINESS PARK
HILTON HEAD ISLAND, SOUTH CAROLINA 29928
(843) 785-2199

CONTACT: MR. BARRY H. TAYLOR, AIA, PRINCIPAL
(843) 785-2199 x 216

CIVIL ENGINEER
ALLIANCE CONSULTING ENGINEERS, INC.
23 PLANTATION PARK DRIVE, SUITE 204
BLUFFTON, SOUTH CAROLINA, 29910-6072
(843) 757-5959

CONTACT: STEVE M. LIOTTA, P.E.

OWNER
COLLETON COUNTY SCHOOL DISTRICT
213 NORTH JEFFERIES BOULEVARD
WALTERBORO, SOUTH CAROLINA 29488
(843) 782-4510

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

CAUTION-NOTE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. SC LAW REQUIRES THE CONTRACTOR TO CALL THE UTILITY PROTECTION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE RELOCATION OF ALL THE UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

I, _____
HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000

REVISION
DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
Alliance Consulting Engineers, Inc.
No. C02854
DATE

SOUTH CAROLINA PROFESSIONAL ENGINEER
STEVE M. LIOTTA
No. 20460
LICENSED
SIGNATURE:

ALLIANCE CONSULTING ENGINEERS

ALLIANCE CONSULTING ENGINEERS, INC.
23 PLANTATION PARK DRIVE, SUITE 204
BLUFFTON, SOUTH CAROLINA 29910
PHONE (843) 757-5959
FAX (843) 757-6659
WWW.ALLIANCECE.COM

PROJECT
CIVIL ENGINEERING SERVICES FOR COLLETON COUNTY SCHOOL DISTRICT ASPHALT PAVING PROJECT IN COLLETON COUNTY, SOUTH CAROLINA
COLLETON COUNTY SOUTH CAROLINA

MARCH 2018

Project No. 18116-0015

DWG NO. 01.1239-D22

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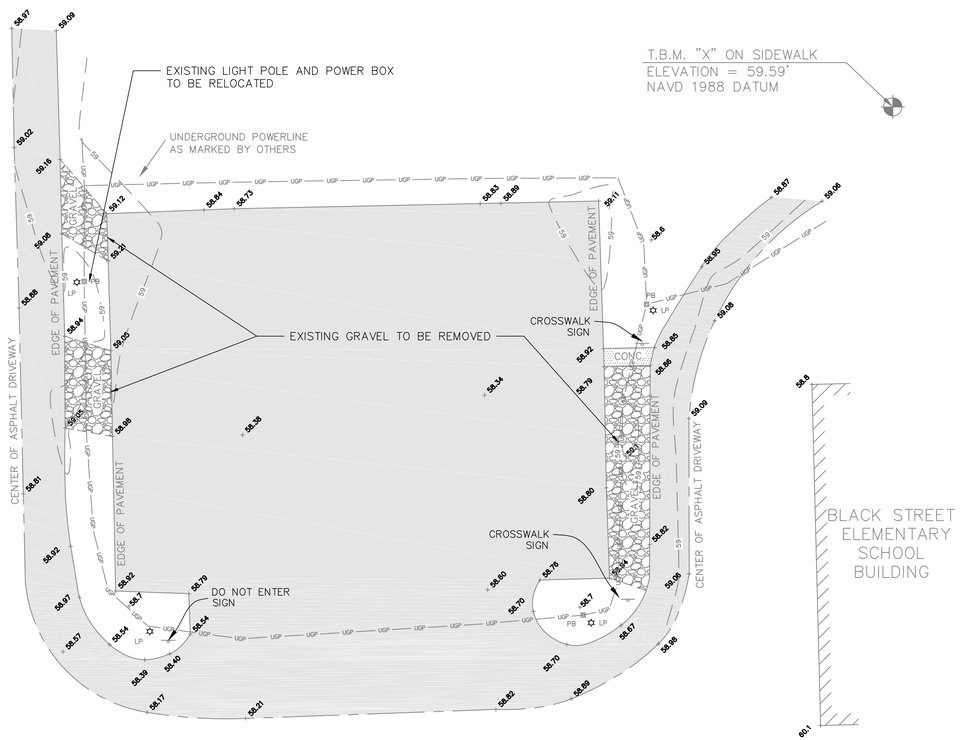
March 09, 2018 - 4:23:50 PM S:\Projects\18116-0015 Colleton County School District Asphalt Paving Project Colleton Co. SC\dwg\Blackstreet Early Childhood\Construction Plans Blackstreet Construction Plans.dwg

NOTE:
UTILITY LOCATIONS ARE APPROXIMATE AND MUST BE FIELD LOCATED PRIOR TO ANY LAND DISTURBANCE BY THE CONTRACTOR.

REFERENCES:
1. REFERENCE IS MADE TO A TOPOGRAPHIC SURVEY PROVIDED BY SURVEYING CONSULTANTS, INC. DATED FEBRUARY 23, 2018.

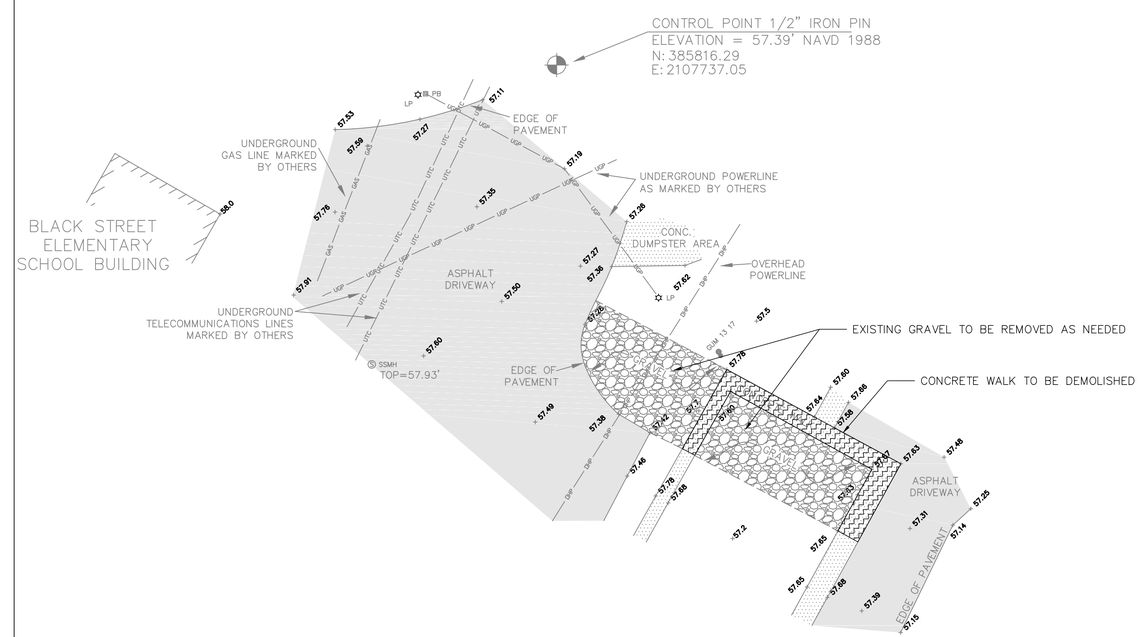
DEMOLITION NOTES:
1. ALL RELOCATED UTILITIES TO BE COORDINATED WITH UTILITY COMPANY. RELOCATED UTILITY LOCATION TO BE APPROVED BY ENGINEER.
2. ALL DEMOLISHED ITEMS TO BE DISPOSED FROM THE SITE. SEE GENERAL NOTES.



BUS LOOP

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

Know what's below. Call before you dig.



CAR LINE

GRAPHIC SCALE
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Know what's below. Call before you dig.

REVISION	DATE

APPROVALS	
ENGINEER	SML
DESIGNER	MRW
TECHNICIAN	MRW
CHECKED BY	ALL
APPROVED	SML

NORTH CAROLINA NOT VALID WITHOUT THIS CERTIFICATE OF AUTHORIZATION
Alliance Consulting Engineers, Inc.
Firm License No. C02854
DATE:

NORTH CAROLINA PROFESSIONAL ENGINEER LICENSED
No. 20460
HUDDS, STEVEN M.
SIGNATURE:

ALLIANCE CONSULTING ENGINEERS
Alliance Consulting Engineers, Inc.
23 Plantation Park Drive, Suite 204, Hilton Head, South Carolina 29910
Phone (843) 757-5959 • Fax (843) 757-6659

SHEET
EXISTING CONDITIONS AND DEMOLITION PLAN
SCALE: AS SHOWN
DATE: MARCH 2018

PROJECT
CIVIL ENGINEERING SERVICES FOR COLLETON COUNTY SCHOOL DISTRICT ASPHALT PAVING PROJECT IN COLLETON COUNTY, SOUTH CAROLINA
COLLETON COUNTY
SOUTH CAROLINA

FILE NAME: Black Street Base.dwg
REFERENCE FILE: 18116 Survey.dwg
PROJECT NO. 18116-0015
SHEET C-1.0 OF 5
DWG NO. 01.1239-D22

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NOTE:
UTILITY LOCATIONS ARE APPROXIMATE AND MUST BE FIELD LOCATED PRIOR TO ANY LAND DISTURBANCE BY THE CONTRACTOR.

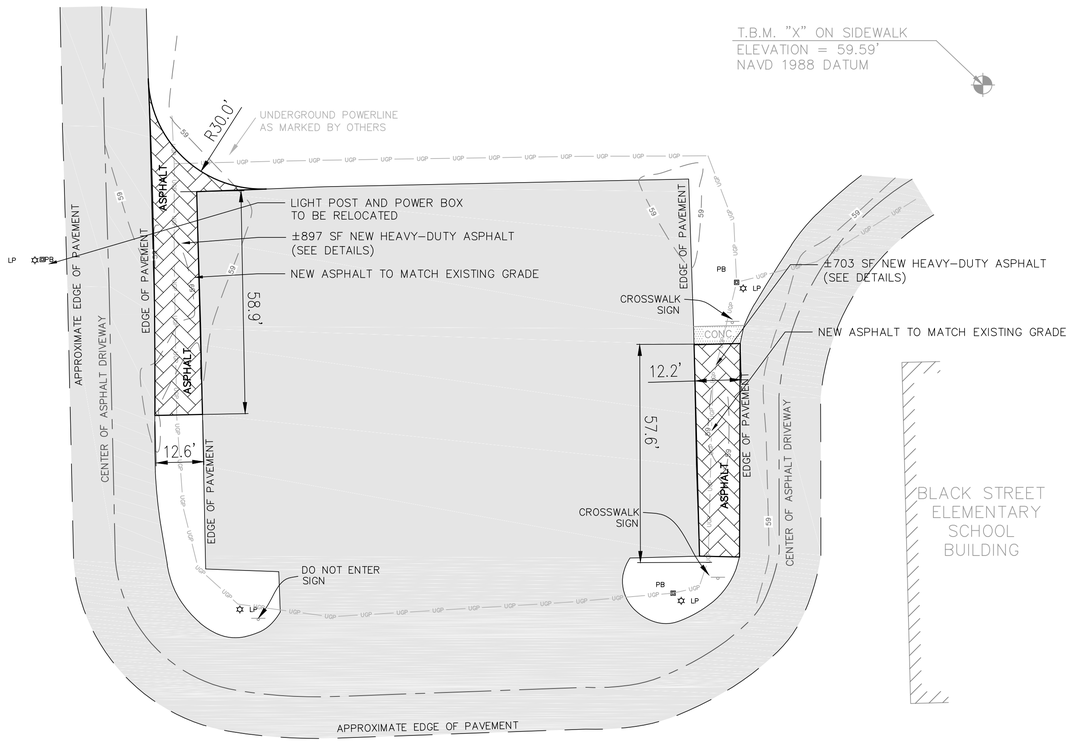
REFERENCES:
1. REFERENCE IS MADE TO A TOPOGRAPHIC SURVEY PROVIDED BY SURVEYING CONSULTANTS, INC. DATED FEBRUARY 23, 2018.

PAVING CONSTRUCTION NOTES:

1. ALL PAVEMENT AREAS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE LATEST EDITION OF THE SCDOT STANDARD SPECIFICATIONS. IMPROVEMENTS WITHIN PUBLIC ROAD RIGHTS-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE, COUNTY OR CITY DEPARTMENT HAVING JURISDICTION OVER THE ROAD.
2. ALL PAVEMENT REMOVAL SHALL BE ACCOMPLISHED BY SAW CUTTING THE EXISTING PAVEMENT PROVIDING A NEAT EDGE. WHEN LIMITS OF CONCRETE REMOVAL ARE WITHIN FOUR (4) FEET OF AN EXISTING CONTROL JOINT, REMOVAL SHALL EXTEND TO THE NEAREST CONTROL JOINT.
3. OUTSIDE OF NECESSARY DEMOLITION AND EXCAVATION AREAS, FULL WIDTH, APRON, AND OTHER PAVEMENT REPAIR SHALL BE LIMITED TO JUST INCLUDE MILLING AND SURFACE TREATMENT (MINIMUM TWO (2) INCH THICKNESS).
4. APRON PAVING SHALL BE DONE TEN (10) FEET BEYOND END OF ROAD RADII AT ALL APPROACHES TO ENSURE PROPER TRANSITION.
5. ALL PAVED AREAS TO BE RE-STRIPED SHALL BE SEALED PRIOR TO RE-STRIPING.
6. CONTRACTOR SHALL REPLACE ALL PAVEMENT MARKINGS (LANE, EDGE LINE, STOP BAR, ETC.) REMOVED OR DAMAGED DURING UTILITY LINE INSTALLATION AND PAVING REPAIR. CONTRACTOR TO USE THERMOPLASTIC MARKINGS IN ALL SCDOT R.O.W. AND EPOXY OR REGULAR "FAST DRY" MARKINGS ELSEWHERE OR AS DIRECTED.
7. TRAFFIC AND PARKING SIGNS (FACES AND POSTS) SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE SCDOT STANDARD SPECIFICATIONS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

GENERAL NOTES:

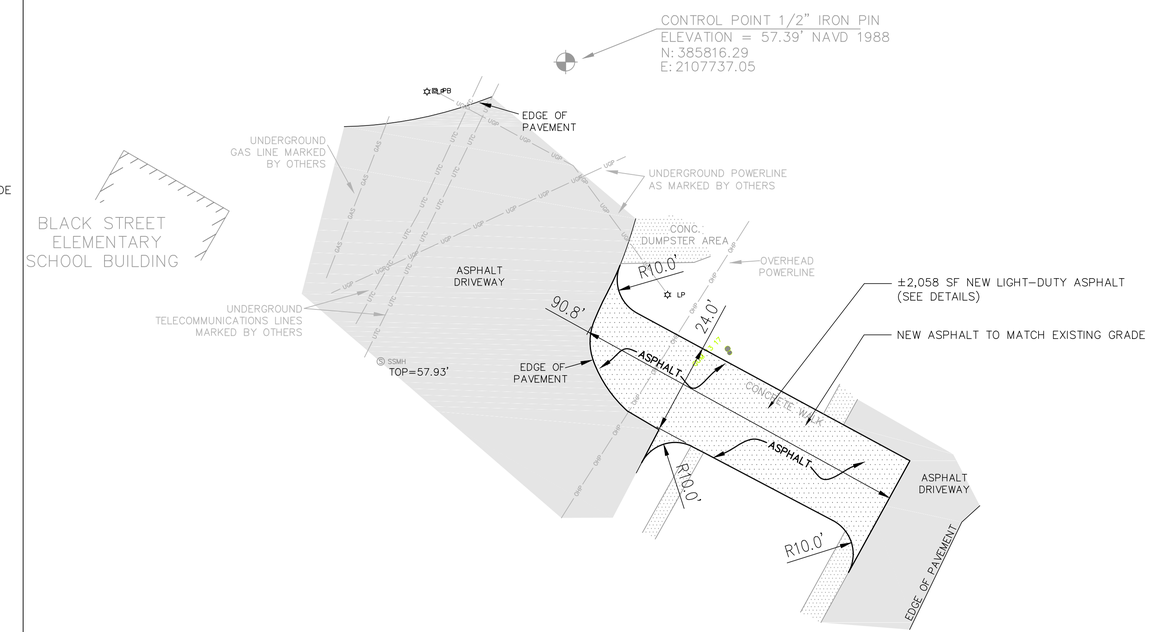
1. THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION IN ACCORDANCE WITH THE LINES AND GRADES SHOWN ON THE PLANS AND TO TOLERANCES STATED HEREIN OR IN THE SPECIFICATIONS.
2. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE DRAWINGS AND DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, ETC. AFFECTING HIS WORK PRIOR TO CONSTRUCTION REFER TO REFERENCES FOR ALL INFORMATION INCORPORATED AS THE EXISTING CONDITIONS.
3. IF UTILITY FIELD RELOCATIONS ARE REQUIRED, THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION SCHEDULE WITH ALL UTILITY COMPANIES AS WELL AS ANY EFFECTED CITY AND COUNTY DEPARTMENTS BY PROVIDING A MINIMUM OF 48 HOURS NOTICE OF WHEN CONSTRUCTION WILL COMMENCE IN ORDER TO PERMIT FIELD LOCATION OF UTILITY LINES PRIOR TO CONSTRUCTION. A TOLL-FREE NUMBER, 1-888-721-7787 IS AVAILABLE TO ASSIST IN SUCH COORDINATION EFFORTS BUT DOES NOT NECESSARILY REPRESENT ALL UTILITY COMPANIES IN THE AREA REFER TO UTILITY PROVIDER CONTACTS.
4. ALL UTILITIES SHALL BE KEPT IN OPERATION EXCEPT WITH THE EXPRESS WRITTEN CONSENT OF THE UTILITY OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE EXISTING UTILITIES. ANY DAMAGE TO EXISTING UTILITIES AS A RESULT OF THE CONTRACTOR'S ACTIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PROCEEDING WITH ANY SITE WORK WITH WHICH A CONFLICT HAS ARISEN DURING CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS.
6. CONSTRUCTION SHALL BE CARRIED OUT "IN THE DRY". THE CONTRACTOR SHALL REVIEW SITE CONDITIONS AND DETERMINE METHODS AND EXTENT OF DEWATERING NECESSARY AND SHALL INCLUDE COSTS OF DEWATERING IN THE BID. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR CONTROL OF GROUND OR SURFACE WATER OR FOR ADDITIONAL MATERIALS OR REWORK REQUIRED AS A RESULT OF INADEQUATE OR INSUFFICIENT DEWATERING.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING RECORD DRAWING INFORMATION INCLUDING, BUT NOT LIMITED TO, FINISHED GRADE ELEVATIONS, TIES TO WATER LINES, VALVES, BENDS, SERVICE CONNECTIONS AND ELEVATIONS OF PIPES WHERE DEPTH OF COVER VARIES FROM DESIGN, TIES TO SANITARY SEWER LINES, MANHOLE RIM AND INVERT ELEVATIONS, CLEANOUTS AND SERVICE CONNECTIONS, TIES TO STORM SEWER LINES, STRUCTURE TOP AND INVERT ELEVATIONS, PLUS LOCATIONS, DIMENSIONS AND ELEVATIONS OF ALL OTHER CONSTRUCTION COMPONENTS WHICH VARY FROM THE DESIGN.
8. ALL WORK TO BE PERFORMED FOR THE COMPLETION OF THIS PROJECT SHALL BE CONSTRUCTED ACCORDING TO THE BEST PRACTICES OF THE INDUSTRY AND IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, COUNTY AND/OR TOWN CODES, ORDINANCES, STANDARDS AND PERMIT CONDITIONS.
9. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL EXCAVATED MATERIAL TO AN APPROVED LOCATION, REGARDLESS OF CONTENT.
10. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONSTRUCTION DOCUMENTS AND SHALL IMMEDIATELY REPORT TO THE ENGINEER ANY DISCREPANCIES OR OMISSIONS DISCOVERED ON THE PLANS OR AT THE SITE. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS TO VERIFY THAT ALL LOCATIONS ARE CORRECT PRIOR TO COMMENCING CONSTRUCTION.
11. ALL PROPERTIES DISTURBED DURING OR AS A RESULT OF CONSTRUCTION SHALL BE RESTORED TO THEIR PRE-EXISTING CONDITION OR BETTER.
12. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS IN WRITING AT LEAST TWO (2) BUSINESS DAYS PRIOR TO ANY INCONVENIENCE OR DISRUPTION OF SERVICES AS A RESULT OF CONSTRUCTION.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY PAVEMENT, DRIVEWAYS, SIDEWALKS, CURBS, AND ANY OTHER EXISTING STRUCTURE THAT MUST BE CUT OR DAMAGED DURING OR AS A RESULT OF CONSTRUCTION. ALL ROAD REPAIRS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY OR OWNER AS APPLICABLE TO STABILIZE UTILITY POLES AND REMOVE AND REPLACE EXISTING GUY WIRES AS NECESSARY FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST ASSOCIATED WITH THIS WORK.
15. COORDINATES ARE BASED ON SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM: NAVD 88 VERTICAL CONTROL AND NAD 83 HORIZONTAL CONTROL.
16. CONTRACTOR SHALL NOT BLOCK ANY PROPERTY INGRESS/EGRESS AND IF NECESSARY, SHALL PROVIDE TEMPORARY CONSTRUCTION ACCESS TO PROPERTY OWNERS THROUGHOUT THE PROJECT.
17. CONTRACTOR SHALL WARRANTY ALL WORK AND MATERIALS FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM COMPLETION DATE OF THE PROJECT.
18. CONTRACTOR SHALL ENSURE ALL TRAFFIC SAFETY IS UPHELD AND PROVIDE ONE (1) LANE OPEN AT ALL TIMES.



BUS LOOP

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

Know what's below. Call before you dig.



CAR LINE

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REVISION	DATE

APPROVALS	
ENGINEER	SML
DESIGNER	MRW
TECHNICIAN	MRW
CHECKED BY	ALL
APPROVED	SML

CAROLINA NORTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 20460 STEVEN M. HOLDER
Alliance Consulting Engineers, Inc. Certificate No. C02854
U.S. CERTIFICATE OF AUTHORIZATION

DATE:

SIGNATURE:

ALLIANCE CONSULTING ENGINEERS
Alliance Consulting Engineers, Inc.
23 Plantation Park Drive, Suite 204, Hilton Head Island, South Carolina 29910
Phone (843) 757-5959 • fax (843) 757-4659

SHEET: SITE PLAN

SCALE: AS SHOWN

DATE: MARCH 2018

PROJECT: CIVIL ENGINEERING SERVICES FOR COLLETON COUNTY SCHOOL DISTRICT ASPHALT PAVING PROJECT IN COLLETON COUNTY, SOUTH CAROLINA

COLLETON COUNTY SOUTH CAROLINA

FILE NAME: Black Street Base.dwg
REFERENCE FILE: 18116 Survey.dwg
PROJECT NO. 18116-0015

SHEET C-2.0 OF 5

DWG NO. 01.1239-D22

March 09, 2018 4:23:55 PM S:\Projects\18116-0015 Colleton County School District Asphalt Paving Project Colleton Co. SC\dwg\Blackstreet Early Childhood\Construction Plans Blackstreet Construction Plans.dwg

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CONSTRUCTION SEQUENCE:

1. NOTIFY COLLETON COUNTY 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITIES.
2. HOLD REQUIRED ON-SITE PRE-CONSTRUCTION MEETING.
3. INSTALL PERIMETER EROSION AND SEDIMENT CONTROL DEVICES.
4. CLEARING AND GRUBBING ONLY IN AREAS OF LAND DISTURBANCE.
5. COMPLETE ROUGH GRADING OF ROUTE.
6. INSTALL PAVEMENT SHOWN ON PLANS.
7. SOIL SAMPLES TO BE TAKEN TO DETERMINE SEEDING AND FERTILIZATION RATES FOR PERMANENT GRASSING.
8. INSTALL APPROPRIATE PERMANENT AND TEMPORARY GRASSING.
9. EROSION AND SEDIMENT CONTROL DEVICES MUST BE MAINTAINED FOR THE EXTENT OF THE PROJECT.
10. REMOVE TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AFTER ENTIRE AREA DRAINING TO THE STRUCTURE IS STABILIZED.
11. OBTAIN NOTICE OF TERMINATION (NOT) FROM SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (DHEC).

NOTE: MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES MUST CONTINUE UNTIL THE SITE IS PERMANENTLY STABILIZED AND THE CONTROLS ARE REMOVED.

NOTE:
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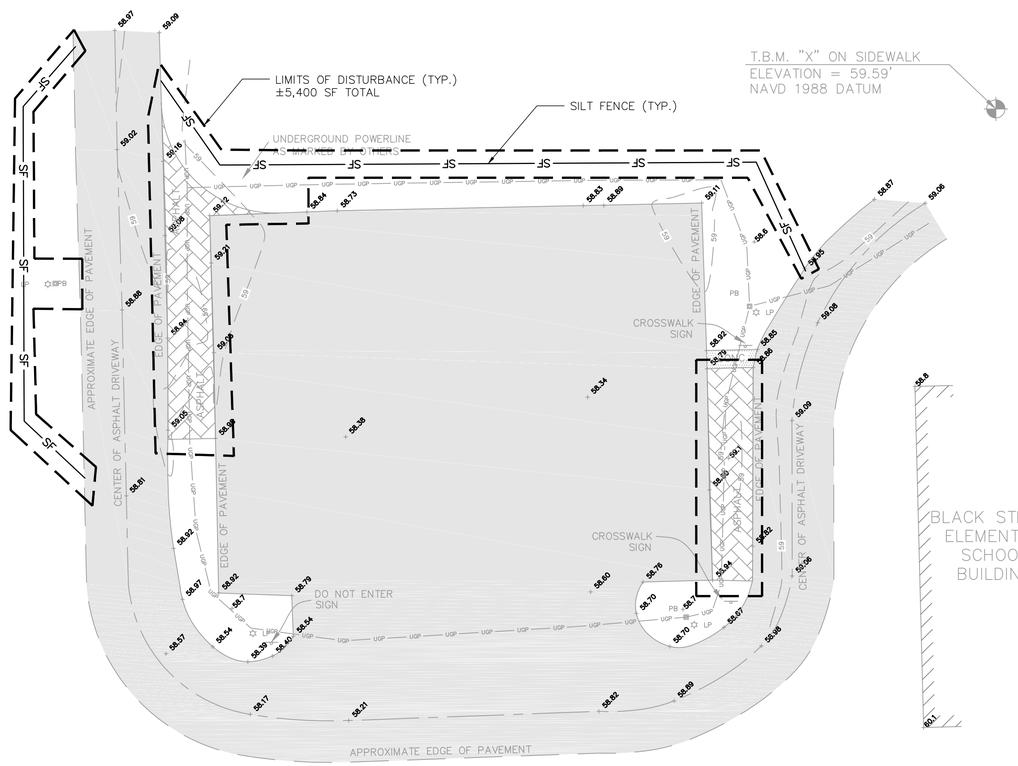

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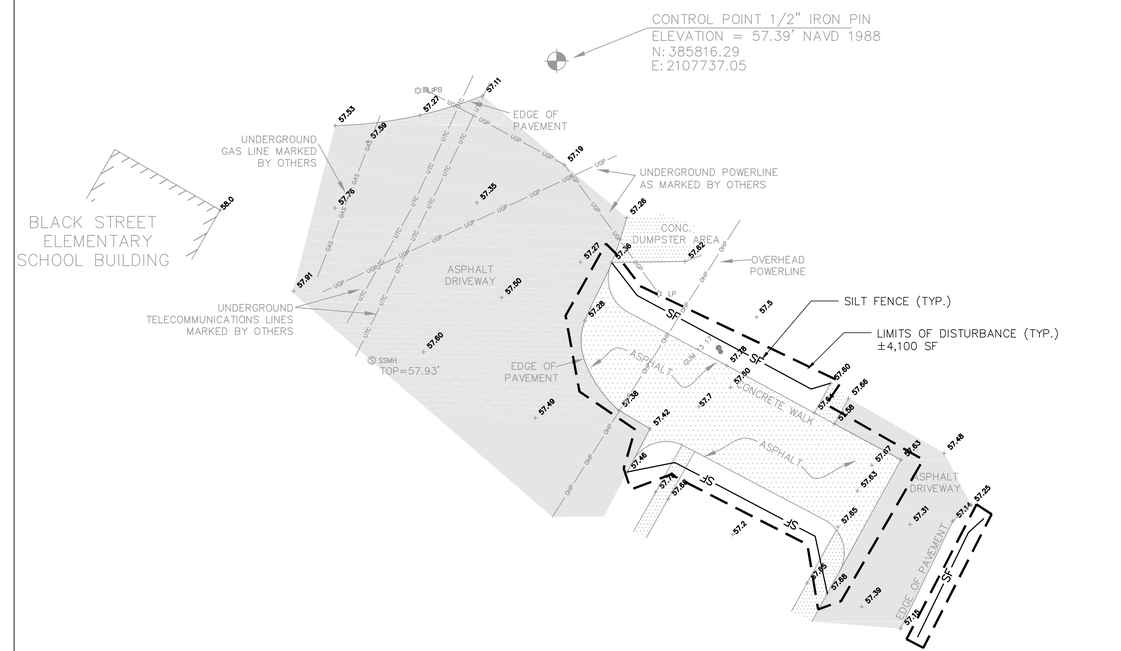

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DESIGNER	MRW
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CHECKED BY	ALL
APPROVED	SML

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Firm License No. C02854
DATE:

NORTH CAROLINA PROFESSIONAL ENGINEER LICENSED
No. 20460
STEVEN M. HUDDS
SIGNATURE:

ALLIANCE CONSULTING ENGINEERS
Alliance Consulting Engineers, Inc.
23 Plantation Park Drive, Suite 204, Hilton Head Island, South Carolina 29910
Phone (843) 757-5959 • Fax (843) 757-6659

SHEET: EROSION AND SEDIMENT CONTROL PLAN
SCALE: AS SHOWN
DATE: MARCH 2018

PROJECT: CIVIL ENGINEERING SERVICES FOR COLLETON COUNTY SCHOOL DISTRICT ASPHALT PAVING PROJECT IN COLLETON COUNTY, SOUTH CAROLINA
COLLETON COUNTY SOUTH CAROLINA

FILE NAME: Black Street Base.dwg
REFERENCE FILE: 18116 Survey.dwg
PROJECT NO. 18116-0015

SHEET C-3.0 OF 5

DWG NO. 01.1239-D22

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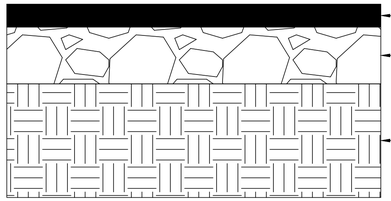


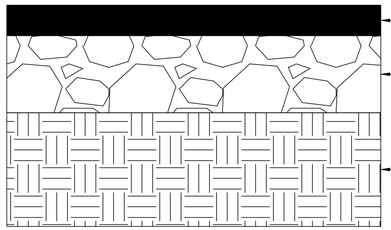
2–INCH ASPHALTIC CONCRETE SURFACE COURSE

6–INCH SCDOT GRADED AGGREGATE
BASE COURSE (COMPACTED TO 98% STANDARD PROCTOR)

COMPACTED SUBGRADE
(COMPACTED TO 98% STANDARD PROCTOR)

LIGHT-DUTY PAVEMENT SECTION

NOT TO SCALE



3–INCH ASPHALTIC CONCRETE SURFACE COURSE

8–INCH SCDOT GRADED AGGREGATE
BASE COURSE (COMPACTED TO 98% STANDARD PROCTOR)

COMPACTED SUBGRADE
(COMPACTED TO 98% STANDARD PROCTOR)

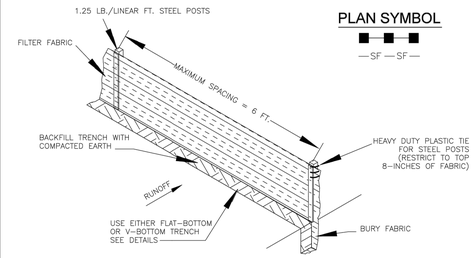
HEAVY-DUTY PAVEMENT SECTION

NOT TO SCALE

NOTE:

PAVEMENT SECTIONS AS RECOMMENDED BY GEOTECHNICAL REPORT BY ECS SOUTHEAST, LLP DATED MARCH 2, 2018

SILT FENCE INSTALLATION



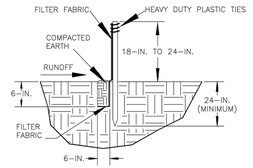
PLAN SYMBOL

— SF — SF —

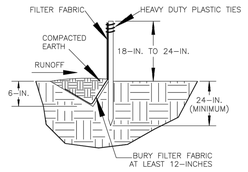
SILT FENCE – GENERAL NOTES

1. Do not place silt fence across channels or in other areas subject to concentrated flows. Silt fence should not be used as a velocity control BMP. Concentrated flows are any flows greater than 0.5 cfs.
2. Maximum sheet or overland flow path length to the silt fence shall be 100–feet.
3. Maximum slope steepness (normal [perpendicular] to the fence line) shall be 2:1.
4. Silt fence joints, when necessary, shall be completed by one of the following options:
   – Wrap each fabric together at a support post with both ends fastened to the post, with a 1–foot minimum overlap;
   – Overlap silt fence by installing 3–feet passed the support post to which the new silt fence roll is attached. Attach old roll to new roll with heavy–duty plastic ties; or,
   – Overlap entire width of each silt fence roll from one support post to the next support post.
5. Attach filter fabric to the steel posts using heavy–duty plastic ties that are evenly spaced within the top 8–inches of the fabric.
6. Install the silt fence perpendicular to the direction of the stormwater flow and place the silt fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.
7. Install Silt Fence Checks (Tie–Backs) every 50–100 feet, dependent on slope, along silt fence that is installed with slope and where concentrated flows are expected or are documented along the proposed/installed silt fence.

FLAT-BOTTOM TRENCH DETAIL



V-SHAPED TRENCH DETAIL



South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. SC–03 Page 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE

SILT FENCE – POST REQUIREMENTS

1. Silt Fence posts must be 48–inch long steel posts that meet, at a minimum, the following physical characteristics.
   – Composed of a high strength steel with a minimum yield strength of 50,000 psi.
   – Include a standard "T" section with a nominal face width of 1.38–inches and a nominal "T" length of 1.48–inches.
   – Weigh 1.25 pounds per foot (± 8%)
2. Posts shall be equipped with projections to aid in fastening of filter fabric.
3. Steel posts may need to have a metal soil stabilization plate welded near the bottom when installed along steep slopes or installed in loose soils. The plate should have a minimum cross section of 17–square inches and be composed of 15 gauge steel, at a minimum. The metal soil stabilization plate should be completely buried.
4. Install posts to a minimum of 24–inches. A minimum height of 1– to 2–inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.
5. Post spacing shall be at a maximum of 6–feet on center.

SILT FENCE – FABRIC REQUIREMENTS

1. Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements:
   – Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are formed into a network such that the filaments or yarns retain dimensional stability relative to each other;
   – Free of any treatment or coating which might adversely alter its physical properties after installation;
   – Free of any defects or flaws that significantly affect its physical and/or filtering properties; and,
   – Have a minimum width of 36–inches.
2. Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.
3. 12–inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled.
4. Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.
5. Filter Fabric shall be installed at a minimum of 24–inches above the ground.

SILT FENCE – INSPECTION & MAINTENANCE

1. The key to functional silt fence is weekly inspections, routine maintenance, and
   regular sediment removal.
2. Regular inspections of silt fence shall be conducted once every calendar week and, as recommended, within 24–hours after each rainfall even that produces 1/2–inch or more of precipitation.
3. Attention to sediment accumulations along the silt fence is extremely important.
   Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the silt fence.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly
   across disturbed area. Stabilize the removed sediment after it is relocated.
6. Check for areas where stormwater runoff has eroded a channel beneath the silt fence, or where the fence has sagged or collapsed due to runoff overtopping the silt fence. Install checks/tie–backs and/or reinstall silt fence, as necessary.
7. Check for tears within the silt fence, areas where silt fence has begun to decompose, and for any other circumstance that may render the silt fence ineffective. Removed damaged silt fence and reinstall new silt fence immediately.
8. Silt fence should be removed within 30 days after final stabilization is achieved
   and once it is removed, the resulting disturbed area shall be permanently stabilized.

South Carolina Department of Health and Environmental Control

SILT FENCE

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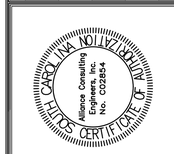
GENERAL NOTES FEBRUARY 2014 DATE

REVISION	DATE

APPROVALS	
ENGINEER	SML
DESIGNER	MRW
TECHNICIAN	MRW
CHECKED BY	ALL
APPROVED	SML



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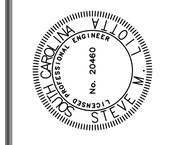

SIGNATURE:

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23 Plantation Park Drive, Suite 204, Hilton Head, South Carolina 29910
Phone (843) 757-5959 • fax (843) 757-4659

SHEET: DETAILS

SCALE: AS SHOWN

DATE: MARCH 2018

PROJECT: CIVIL ENGINEERING SERVICES FOR COLLETON COUNTY SCHOOL DISTRICT ASPHALT PAVING PROJECT IN COLLETON COUNTY, SOUTH CAROLINA

COLLETON COUNTY SOUTH CAROLINA

FILE NAME: Black Street Base.dwg

REFERENCE FILE: 18116 Survey.dwg

PROJECT NO. 18116-0015

SHEET C-4.0 OF 5

DWG NO. 01.1239-D22

March 09, 2018 4:24:05 PM S:\Projects\18116-0015 Colleton County School District Asphalt Paving Project Colleton Co. SC\dwg\Blackstreet Early Childhood\Construction Plans\Blackstreet Construction Plans.dwg