# SUBDIVISION OF GREEN MEADOWS FOR GREEN MEADOWS, LLC SOUTH MILLS TOWNSHIP CAMDEN COUNTY, NORTH CAROLINA

PROJECT NOTES:

Owner: Green Meadows, LLC
987 Swamp Road
Hertford, NC 27944

Contact: State Representative – Bob Steinburg (252) 482–2404

PIN # 017999003493030000

This Project is located East of South Mills in Camden County.

Nearest Receiving Stream: Joyce Creek which is approximately 3,200 feet away and lies South of the project. DWQ Watershed Classification is C, Swp. At Joyce Creek, Flood Zone 'X', Base Flood elevation is 5.0'.

Horizontal Datum based on NAD 83.
Verical Datum based on NGVD 88.

Project Area Table:

Total Project Area = 10.8 Ac.
Total Disturbed Area = 10.8 Ac.

Zoning: Residential 3–2

No wetlands exists on the property

2. PHYSICAL ADDRESS: PUDDING RIDGE RD, SOUTH MILLS, N.C. 27976
3. PIN # 017999003493030000
4. REFERENCE: D.B. 268, PG. 325
5. TRACT IS IN FLOOD ZONE SHADED X & AE (EL 6.9')
6. TOTAL TRACT AREA = 467,995 sq.ft. 10.74 acres
7. MINIMUM LOT SIZE = 1 ACRE
8. TOTAL NUMBER OF LOTS = 9
9. DRAINAGE & UTILITY EASEMENTS:
   FRONT OF LOT= 10'
   SIDE LOT LINES= 10'

CONSTRUCTION SEQUENCE

1. OBTAIN PLAN APPROVAL & ALL PERMITS
2. HOLD PRE–CONSTRUCTION MEETING ONE WEEK OR MORE PRIOR TO THE START OF CONSTRUCTION.
3. DO NOT BLOCK DRAINAGE. WHEN NECESSARY INSTALL CULVERT IN CONJUNCTION W/ INLET/OUTLET PROTECTION WHILE INSTALLING THE TEMPORARY CONSTRUCTION ENTRANCE.
4. INSTALL SILT FENCING IN AREAS AS SHOWN ON PLAN, AND OTHER AREAS AS REQUIRED TO PREVENT SEDIMENTATION.
5. CONSTRUCT STONE SILT (CHECK) DAM AS REQUIRED..
6. ALL DISTURBED AREAS MUST HAVE TEMPORARY VEGETATION IN PLACE WITHIN 15 WORKING DAYS OR 30 CALENDER DAYS, WHICHEVER IS SHORTER.
7. CONSTRUCTION
8. AFTER SOIL IS STABILIZED, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.

EROSION AND SEDIMENT CONTROL PLAN NOTES

PROJECT NARRATIVE:

The project is the construction of a 11 lot commerical subdivision.

Soils in this area have been maped by N.R.C.S. as Roanoke, Bladen Silt Loam and Auqusta Fine Sandy Loam.

SOIL STABILIZATION:

All disturbed soils shall be stabilized by seeding and/or sodding within 15 working days or 30 calender days (whichever is shorter) of construction completion or the completion of the land disturbing activity.

It is the contractors responsibility to establish a dense ground cover capable of stopping erosion. The Erosion and Sediment Control measures that follow are intended to be minimum standards. When erosion persists other more stringent measures may be necessary to control erosion.

Apply fertilizer, and agricultural lime as required by soil test or as a minimum follow this schedule:

Apply fertilizer in the amount of 500 pounds per acre of 10–10–10 fertilizer.

Apply 2,500 pounds/acre of agricultural limestone.

Where possible scarify soil to work the fertilizer and soil into the soil.

Mulch the area to be stabilized with wheat straw at the rate of 2 tons/acre. Anchor straw when necessary with netting or asphalt. In some instances it may be necessary to use pre–manufactured erosion control mats like the excelsior mat.

Seeding:

1) If Temporary Vegetation is to be established in winter/spring/fall apply 125 pounds/acre of annual rye grain. If Temporary Vegetation is to be established in the summer months apply 25 pounds per acre of Bermuda Grass and 25 pounds per acre of German Millet.

2) Permanent Vegetation shall be established with a mixture of 40 pounds/acre of Bahiagrass, 10 pounds/acre of Bermuda, and 10 pounds/acre of German Millet. When top seeding over Temporary Vegetation containing a good stand of Bermuda and Millet, only Bahiagrass will be required.

3) Sodding may be required when slope stabilization is difficult to establish. Select a sod species compatible with the application and apply sod strips down the length of the slope. Fasten sod as necessary to prevent slippage.

Final slopes in all graded areas shall not exceed a slope of 3:1.

MAINTENANCE:

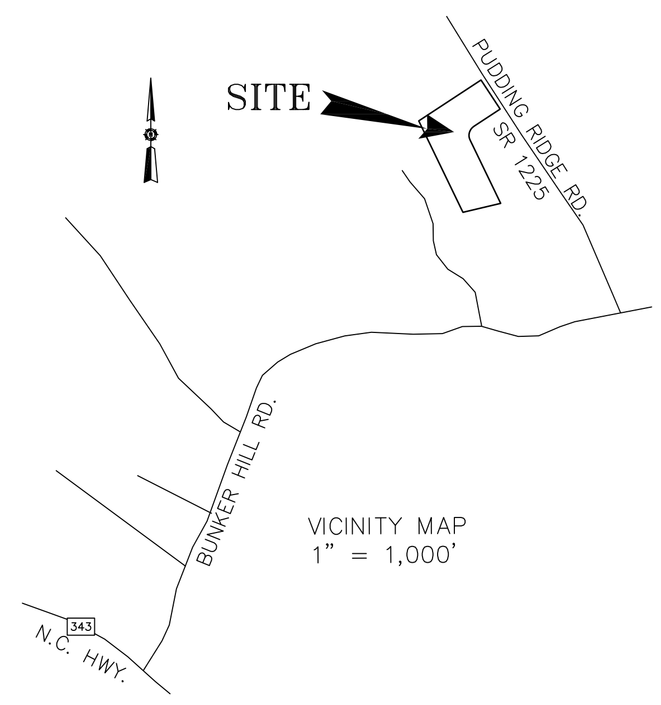
Erosion control devices are to be checked after significant rainfall events but not less than twice monthly. Remove sediment and repair erosion control devices as necessary.

Check slopes being stabilized for signs of erosion after all significant rainfall events and repair as necessary. Reseeding and mulching of erosion damaged areas is required.

Perform routine maintenance and mowing of stabilized areas, including ditches and swales.

INTENTION OF THIS EROSION AND SEDIMENT CONTROL PLAN

Protect disturbed areas from erosion.
Stabilize disturbed areas as soon as possible.
Minimize the length of time disturbed soil is exposed.
Minimize the velocity of stormwater runoff.
Retain sediment on site with silt check dams and silt fencing.




VICINITY MAP
1" = 1,000'

NOTE:
TEMPORARY GROUND COVER MUST BE ESTABLISHED ON ALL EXPOSED SLOPES WITHIN 15 WORKING DAYS OR 30 CALENDAR DAYS WHICHEVER IS SHORTER FOLLOWING COMPLETION OF ANY PHASE OF GRADING. PERMANENT GROUND COVER IS REQUIRED WITHIN 30 WORKING DAYS OR 120 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION.

| SHEET # | DESCRIPTION |
|---|---|
| 1 | COVER SHEET |
| 2 | EROSION & SEDIMENTATION CONTROL PLAN |
| 3 | SUBDIVISION PLAN |
| 4 | ROADWAY PLAN AND PROFILE |
| 5 | PUDDING RIDGE ROAD WATERLINE REPLACEMENT |
| 6 | DETAIL SHEET |

CALL ULOCO TO LOCATE UTILITIES BEFORE YOU DIG 811.

Roadway Construction Notes

All work under this section shall be performed under the guidelines of the NC DOT Minimum Construction Standards for Subdivision Roads, and all other appropriate NCDOT Standards.

Materials:

A. Any reference to base aggregate or stone shall be crush concrete or crushed asphalt, meeting the NCDOT gradation standards compacted to 98% of the standard proctor ASTM D698. Asphalt shall be SP–9.5. Minimum thicknesses shall be 8" of crushed concrete or crushed asphalt base course and 2" of SP–9.5 Asphalt.

B. On–site determination of the additional materials necessary to stabilize the roadway will be made by the engineer.

C. All materials shall meet the standards set forth in the latest edition of the North Carolina Standard Specifications for Roads and Structures.

D. Reinforced Concrete Pipe (RCP) shall be Class III.

Preparation of the road bed:

A. Top soil is to be excavated and removed.

A. The subgrade shall be grubbed and cleared of all trees, brush and root and other organic matter.

B. Proof–roll all subbase material. Excavate and remove all base material that is not suitable for road construction. Fill over–excavated areas with select sand that has less than 10% fines passing the #200 sieve. The upper one foot of all pavement subgrade shall be compacted to a minimum of 98% of standard proctor dry density or as specified by the engineer.

C. No base course shall be placed on muck, organic matter or other unsuitable material.

Guarantee:
The contractor shall guarantee all materials furnished and work performed for a period of (2) two years from the date of acceptance.

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| 11 | 10/09/15 | PER SOUTH MILLS WATER ASSOCIATION'S COMMENTS (09/30/15) |
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| 9 | 09/09/15 | PER NCDENR EROSION AND SEDIMENT CONTROL COMMENTS (12/12/13) |
| 8 | 08/25/15 | UPGRADE OFFSITE WATERLINE TO 6"PVC. |
| 7 | 10/30/14 | PER CLIENT'S REQUEST (9/26/14) |
| 6 | 09/25/14 | PER COUNTY STORMWATER COMMENTS (9/2/14) |

REVISIONS

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 027121 HOLLIS D. SMITH

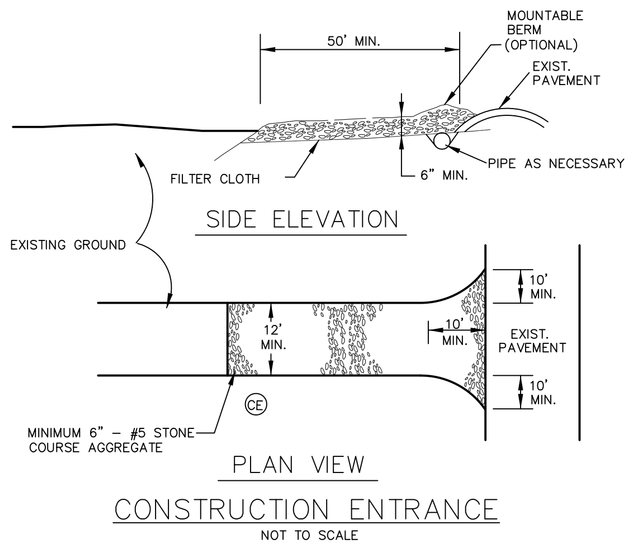
11/11/15


CAE, INC.
ENGINEERS, PLANNERS, AND CONSTRUCTION CONSULTANTS
321 OFFICE SQUARE LANE, SUITE 101A
VIRGINIA BEACH, VIRGINIA 23462–3655
TELEPHONE: (252) 562–0430 (757) 271–1009 FAX


Date: 6–17–13 | Scale: AS SHOWN | Drawn By: SM/HDE | Checked By: HDE | Designed By: KMM/HDE | Computed By: RW/HDE

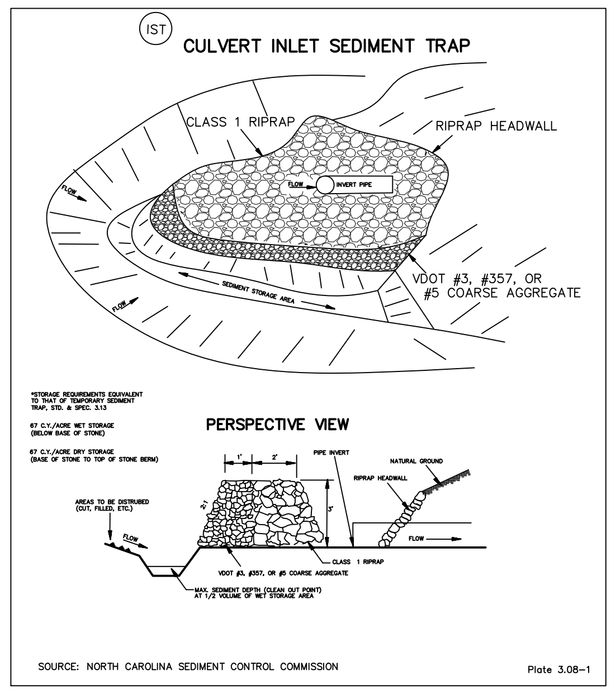
COVER SHEET
OF
GREEN MEADOWS SUBDIVISION
PROPERTY OF
GREEN MEADOWS, LLC
PARCEL ID # 01.7999.00.34.9303.0000

SOUTH MILLS TOWNSHIP CAMDEN COUNTY, NORTH CAROLINA



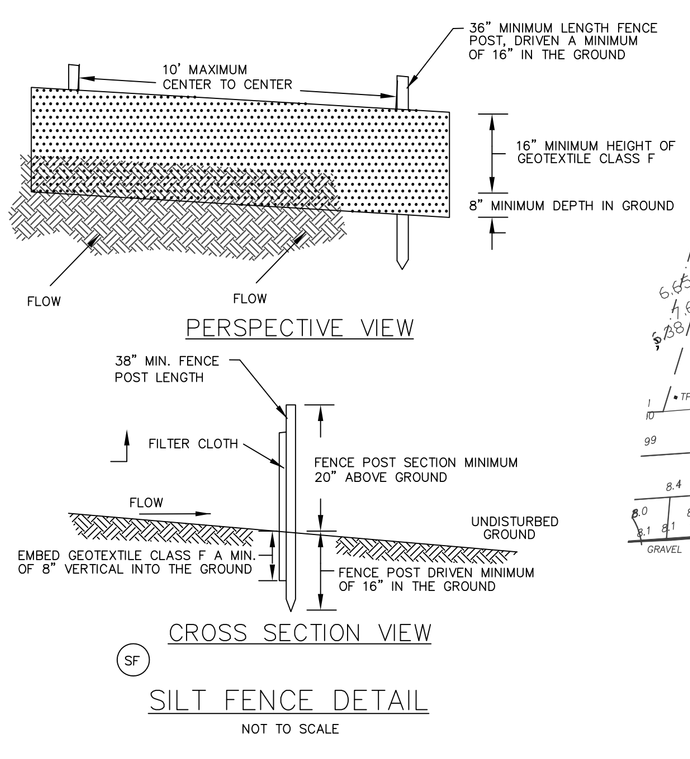

CONSTRUCTION ENTRANCE

NOT TO SCALE




MAINTENANCE

1. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
2. AGGREGATE SHALLBE REPLACED OR CLEANED WHEN INSPECTION REVEALS THAT CLOGGED VOIDS ARE CAUSING PONDING PROBLEMS WHICH INTERFERE WITH ON-SITE CONSTRUCTION.
3. SEDIMENT SHALL BE REMOVED AND THE IMPOUNDMENT RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE AND CAUSE SEDIMENTATION PROBLEMS.
4. TEMPORARY STRUCTURES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.




SILT FENCE DETAIL

NOT TO SCALE

NOTE:
A MINIMUM 12" LAYER OF 1" OR SMALLER GRAVEL MUST BE PROVIDED ON THE UPSTREAM FACE OF THE ROCK CHECK DAM LOCATED NEAREST THE DISCHARGE POINT OF ALL MAIN DRAINAGE SWALES.

LEGEND:

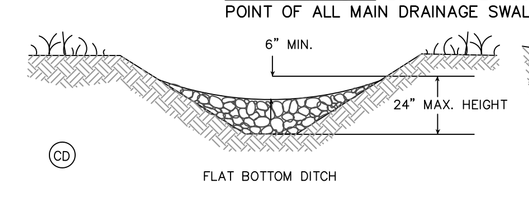
7.45 EXISTING SPOT ELEVATION

PROPERTY LINE

GRAPHIC SCALE

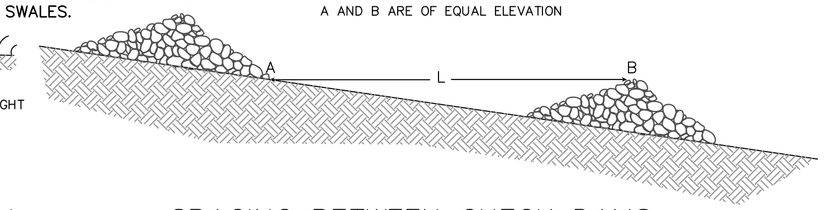
50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.




ROCK CHECK DAM CROSS SECTION

NOT TO SCALE




L= THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION

SPACING BETWEEN CHECK DAMS

NOT TO SCALE

2008-024

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REVISIONS

NORTH CAROLINA PROFESSIONAL SEAL 027121 ENGINEER HOLLIS D. SMITH 11/11/15


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ENGINEERS, PLANNERS, AND CONSTRUCTION CONSULTANTS
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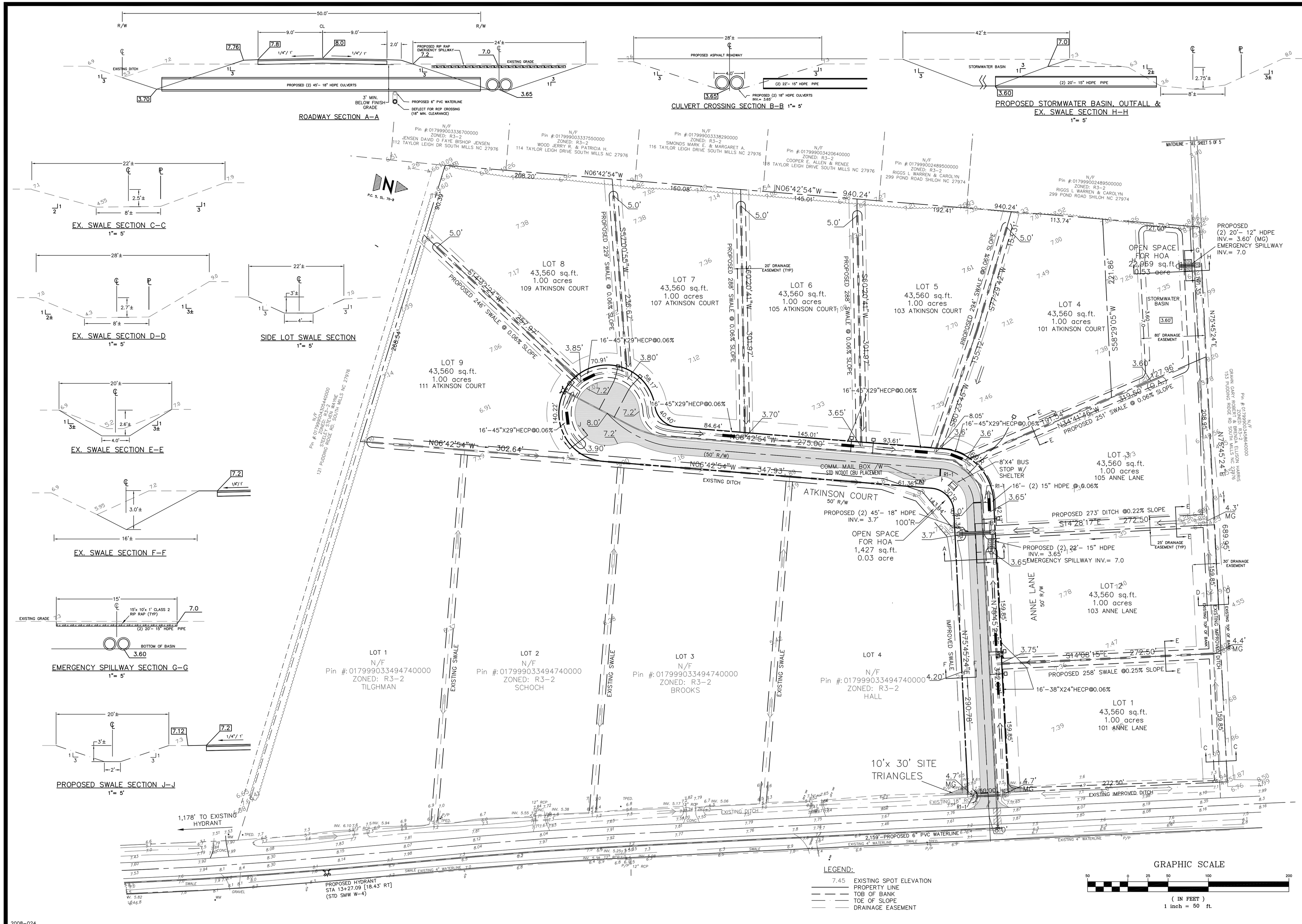
VIRGINIA BEACH, VIRGINIA 23462-3655
TELEPHONE: (252) 562-0430 (757) 271-1009 FAX


Date: 6-17-13 | Scale: AS SHOWN | Drawn By: SM/HDE | Checked By: HDE | Designed By: KMM/HDE | Computed By: RW/HDE

**EROSION & SENDIMENT CONTROL PLAN**
**OF**
**GREEN MEADOWS SUBDIVISION**
PROPERTY OF
**GREEN MEADOWS, LLC**
PARCEL ID # 01.7999.00.34.9303.0000

**SOUTH MILLS TOWNSHIP** **CAMDEN COUNTY, NORTH CAROLINA**

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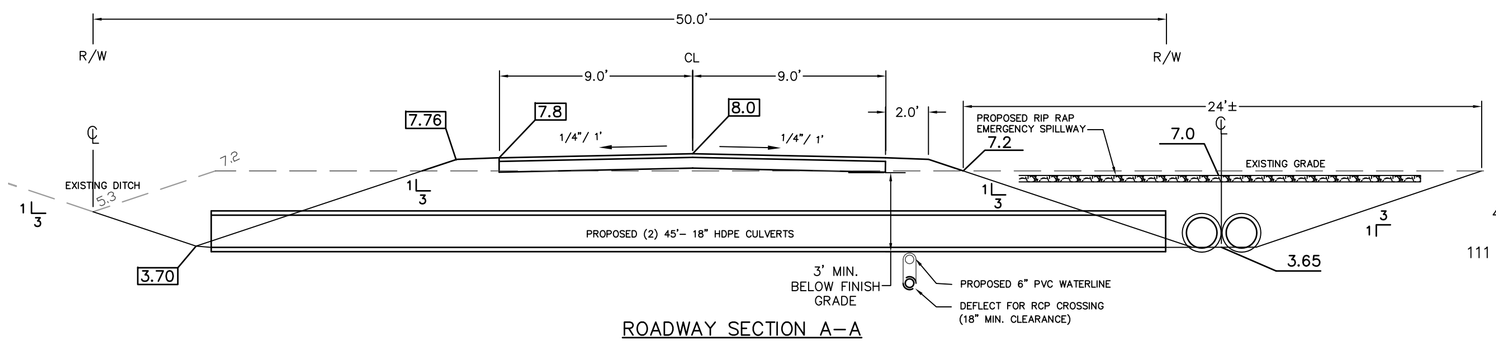
**GRADING & DRAINAGE PLAN OF GREEN MEADOWS SUBDIVISION**
PROPERTY OF
**GREEN MEADOWS, LLC**
PARCEL ID # 01.7999.00.34.9303.0000
**SOUTH MILLS TOWNSHIP CAMDEN COUNTY, NORTH CAROLINA**

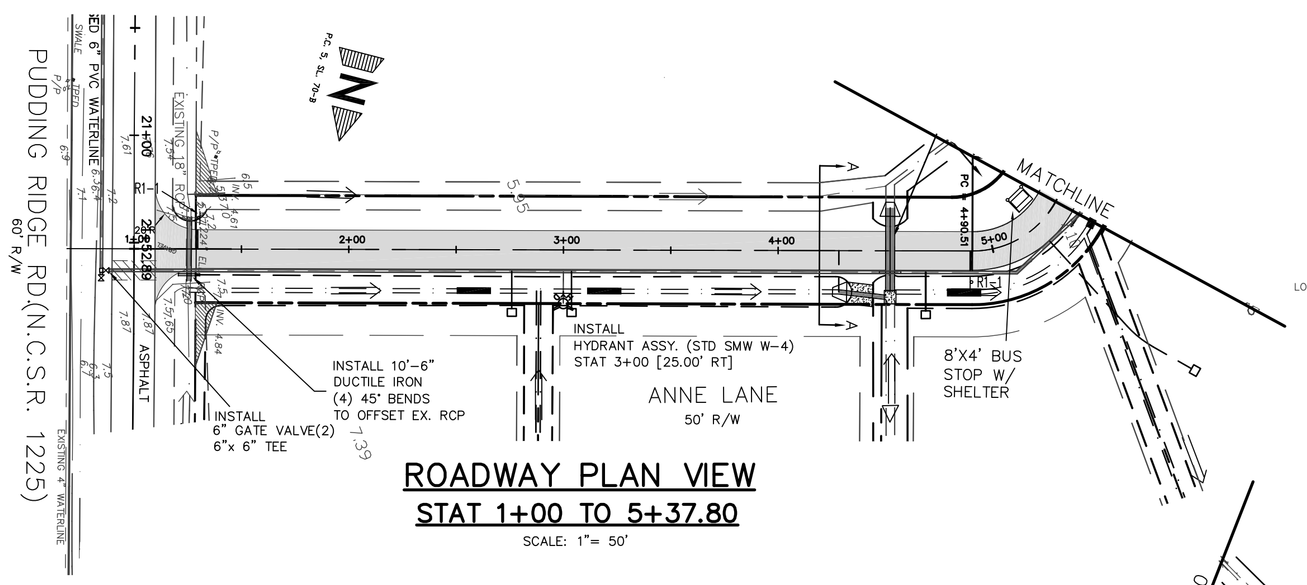
SHEET 3 OF 6

2008–024




ROADWAY SECTION A–A

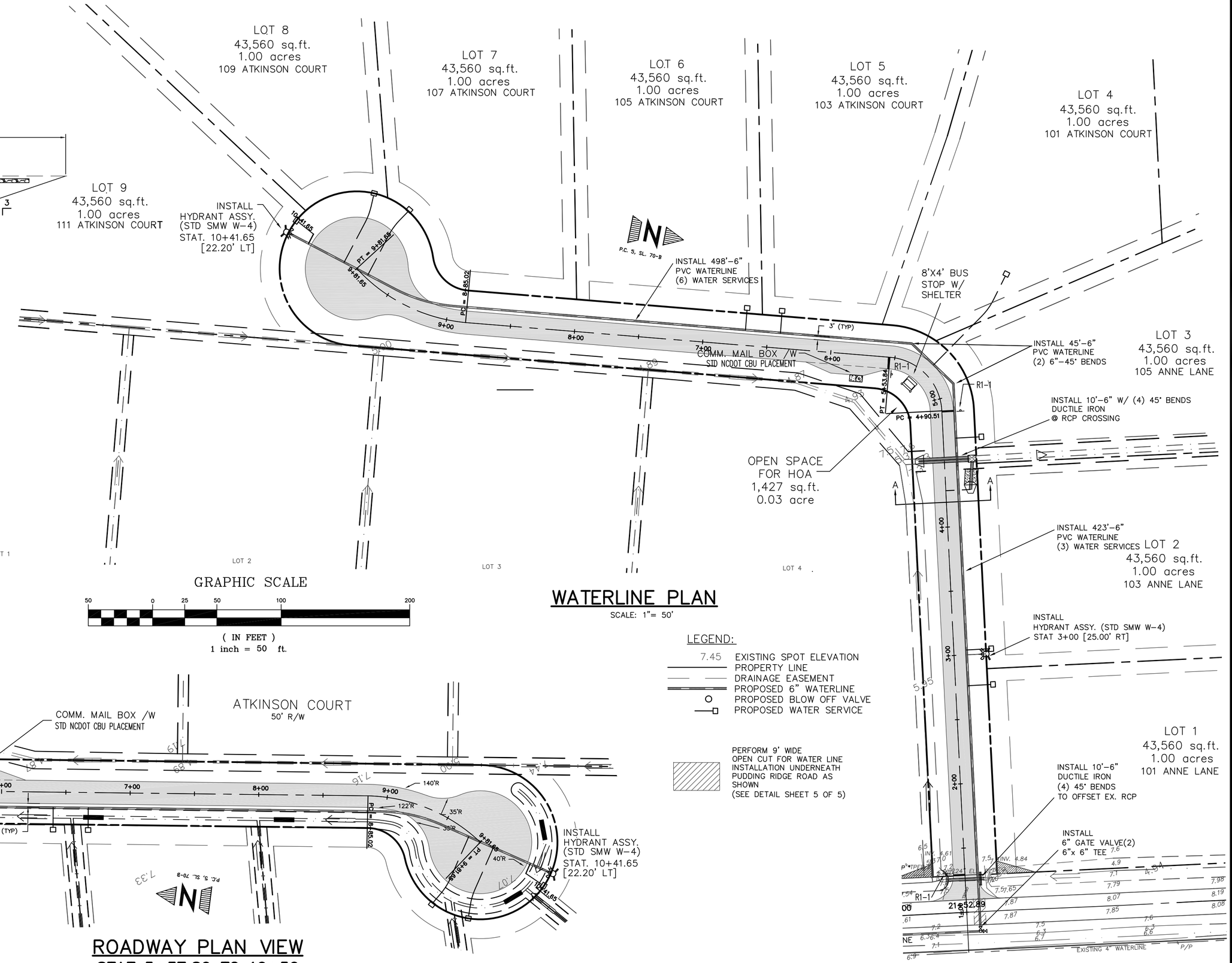
(1"=5')




ROADWAY PLAN VIEW

STAT 1+00 TO 5+37.80

SCALE: 1"= 50'




GRAPHIC SCALE

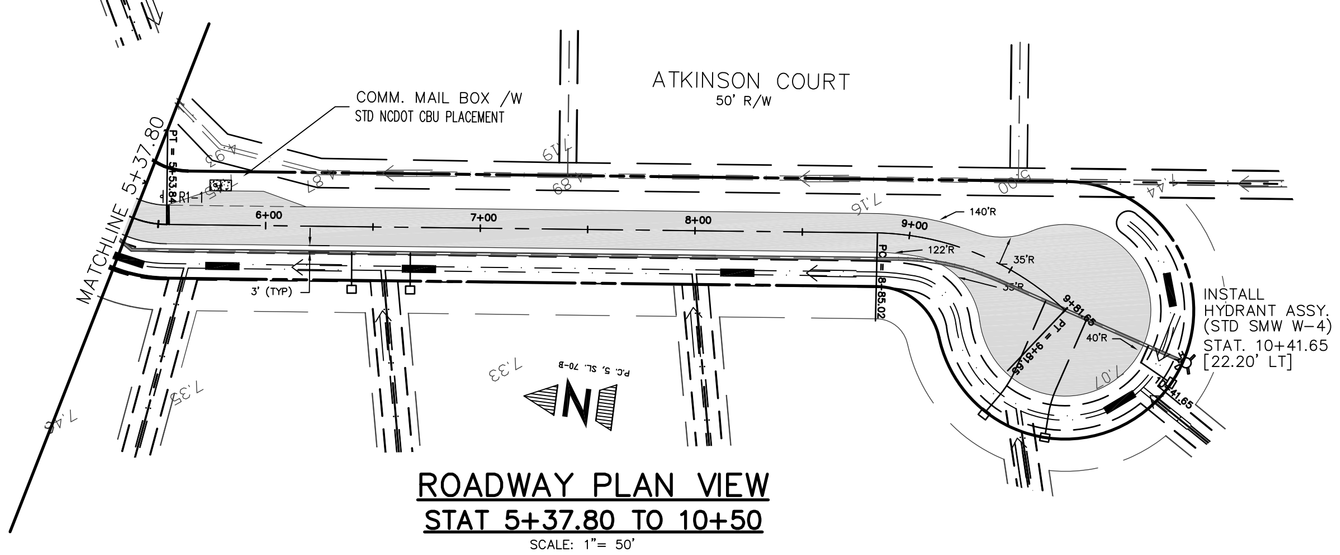
( IN FEET )
1 inch = 50 ft.

WATERLINE PLAN

SCALE: 1"= 50'

LEGEND:

- 7.45 EXISTING SPOT ELEVATION
- PROPERTY LINE
- DRAINAGE EASEMENT
- PROPOSED 6" WATERLINE
- PROPOSED BLOW OFF VALVE
- PROPOSED WATER SERVICE
- PERFORM 9' WIDE OPEN CUT FOR WATER LINE INSTALLATION UNDERNEATH PUDDING RIDGE ROAD AS SHOWN (SEE DETAIL SHEET 5 OF 5)



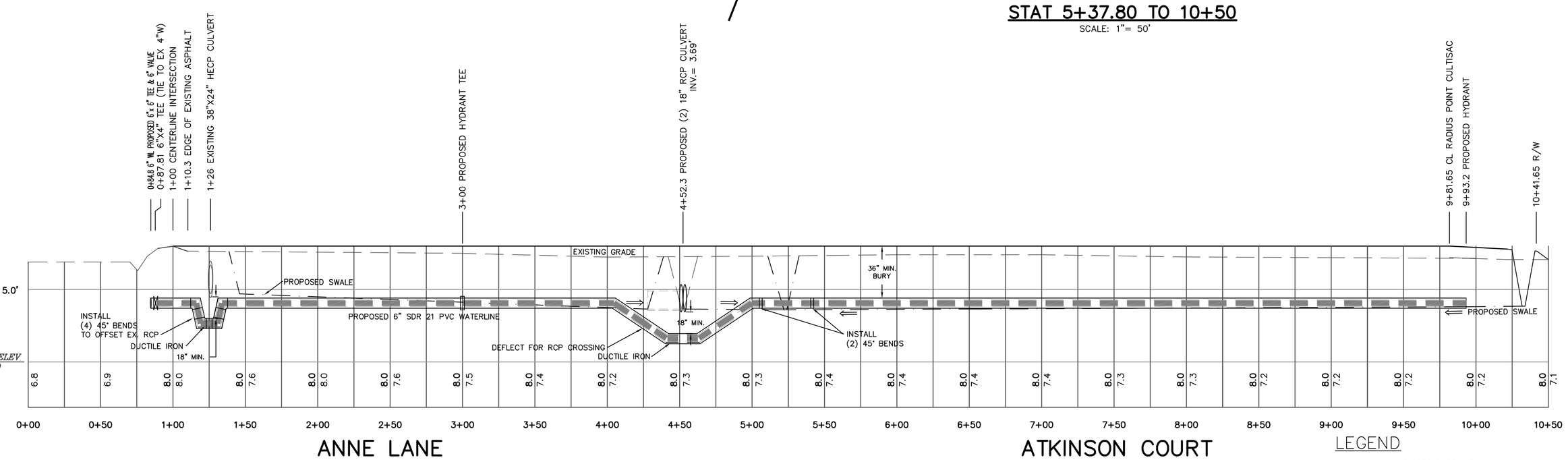

ROADWAY PLAN VIEW

STAT 5+37.80 TO 10+50

SCALE: 1"= 50'

LEGEND:

- 7.45 EXISTING SPOT ELEVATION
- PROPERTY LINE
- DRAINAGE EASEMENT
- PROPOSED 6" WATERLINE
- PROPOSED WATER SERVICE
- TOE OF SLOPE
- TOP OF SLOPE




LEGEND

- APPROXIMATE EXISTING GRADE @ CENTERLINE
- PROPOSED GRADE @ CENTERLINE

SCALE: HORIZONTAL – 1"= 50'
VERTICAL – 1"= 5'

LEGEND

PROPOSED FINISH GRADE — 8.0 — EXISTING GRADE — 7.2

ROADWAY PROFILE

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NORTH CAROLINA PROFESSIONAL SEAL 027121 ENGINEER HOLLIS D. SMITH 11/11/15


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Computed By: RW/HDE
Designed By: KMM/HDE
Checked By: HDE
Drawn By: SM/HDE
Scale: AS SHOWN
Date: 6–17–13

ROADWAY & WATERLINE PLAN & PROFILE
OF
GREEN MEADOWS SUBDIVISION
PROPERTY OF
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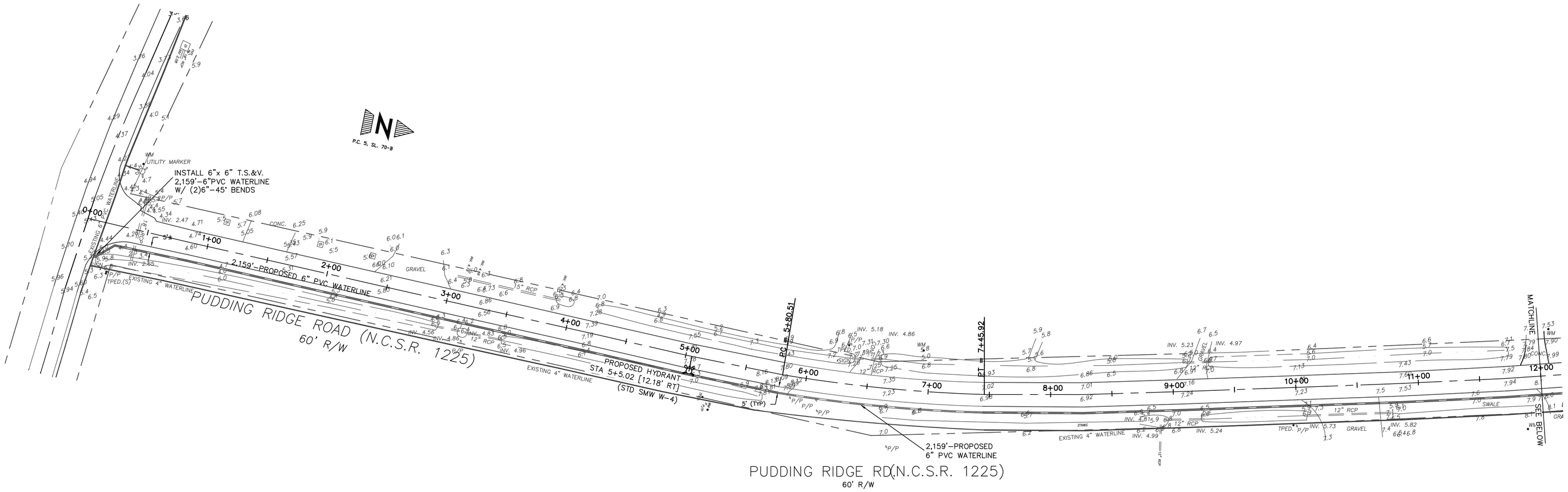
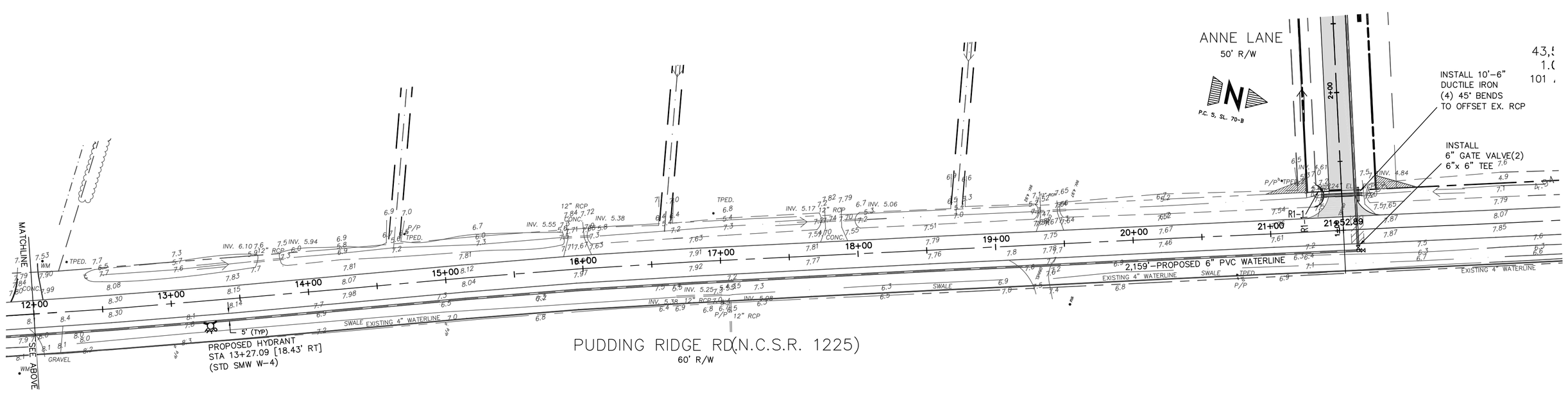
PARCEL ID # 01.7999.00.34.9303.0000
SOUTH MILLS TOWNSHIP CAMDEN COUNTY, NORTH CAROLINA

SHEET 4 OF 6

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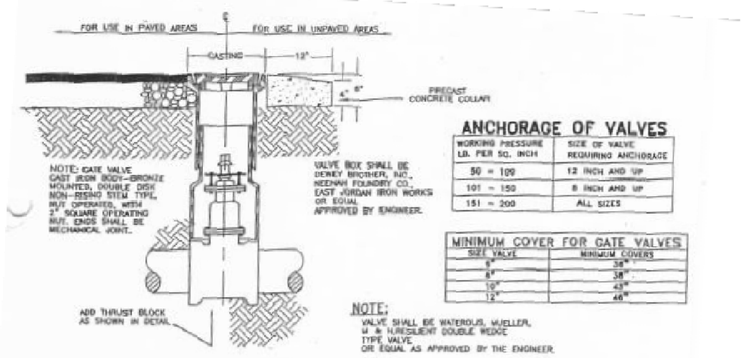
**PUDDING RIDGE ROAD WATERLINE REPLACEMENT**
OF
**GREEN MEADOWS SUBDIVISION**
PROPERTY OF
**GREEN MEADOWS, LLC**
PARCEL ID # 01.7999.00.34.9303.0000
**SOUTH MILLS TOWNSHIP** **CAMDEN COUNTY, NORTH CAROLINA**



2008-024

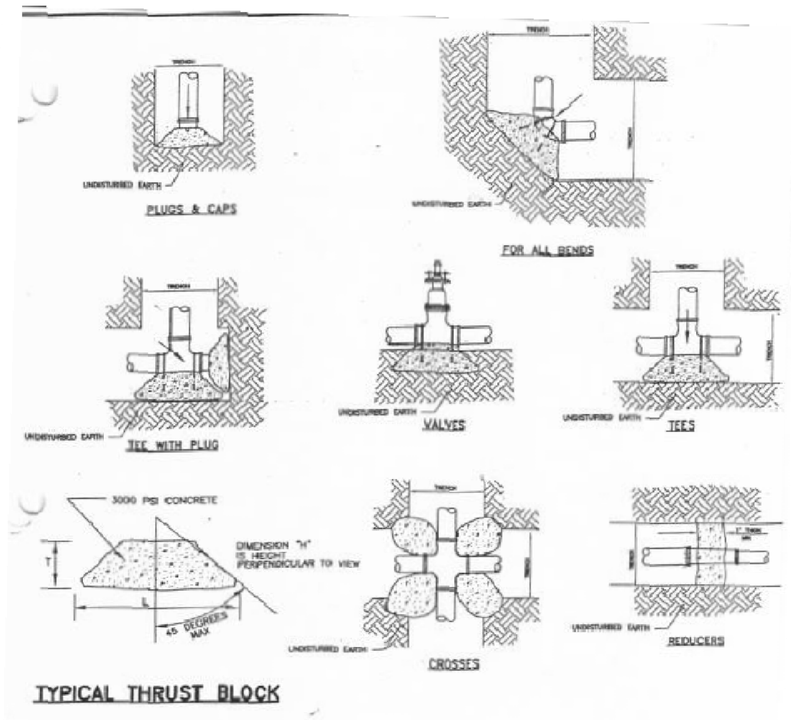



## ANCHORAGE OF VALVES

| WORKING PRESSURE LB. PER SQ. INCH | SIZE OF VALVE REQUIRING ANCHORAGE |
|---|---|
| 50 ~ 100 | 12 INCH AND UP |
| 101 ~ 150 | 8 INCH AND UP |
| 151 ~ 200 | ALL SIZES |

| MINIMUM COVER FOR GATE VALVES | |
|---|---|
| SIZE VALVE | MINIMUM COVERS |
| 4" | 30" |
| 6" | 38" |
| 10" | 43" |
| 12" | 48" |

TYPICAL VALVE DETAIL
AWWA C500




TYPICAL THRUST BLOCK

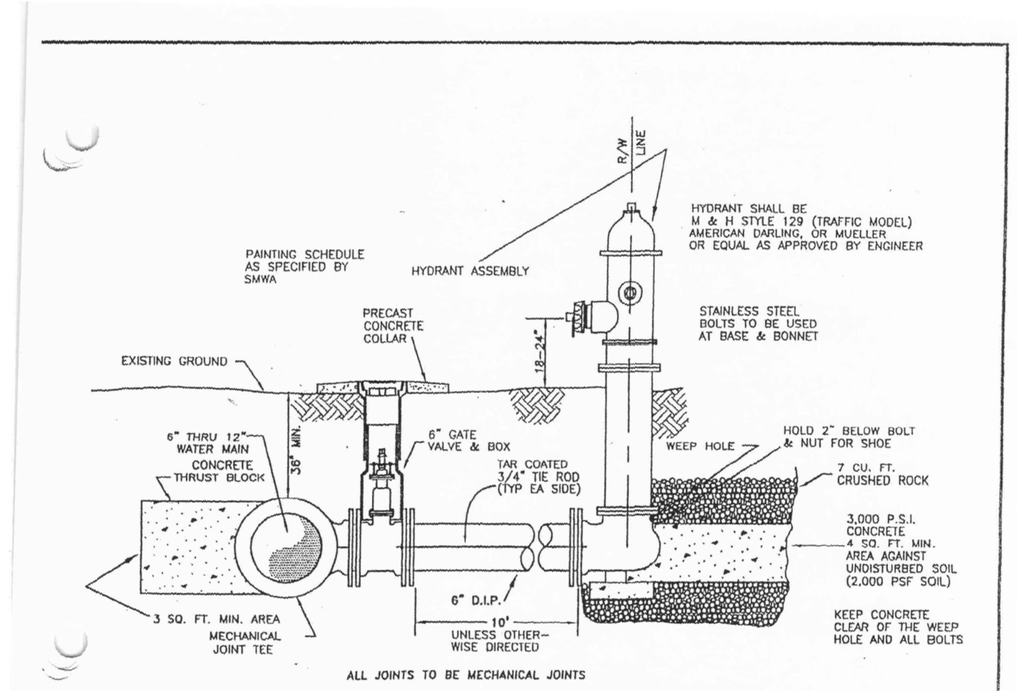
## ANCHOR ROD SIZES

| PIPE SIZE | ROD SIZE |
|---|---|
| 4" THRU 6" | #4 |
| 8" THRU 10" | #6 |
| 12" THRU 18" | #8 |

## CONCRETE THRUST BLOCK

| PIPE SIZE | FITTING | L (FT.) | H (FT.) | T (FT.) |
|---|---|---|---|---|
| 2 - 3 - 4 | TEE OR BLOCK | 2.0 | 1.0 | 1.0 |
| 2 - 3 - 4 | 90 | 2.0 | 1.5 | 1.0 |
| 2 - 3 - 4 | 45 | 1.0 | 1.0 | 1.0 |
| 2 - 3 - 4 | 22 1/2 | 1.0 | 1.0 | 1.0 |
| 6 | TEE OR BLOCK | 2.0 | 2.0 | 1.0 |
| 6 | 90 | 3.0 | 2.0 | 1.5 |
| 6 | 45 | 2.0 | 1.5 | 1.0 |
| 6 | 22 1/2 | 1.5 | 1.0 | 1.0 |
| 8 | TEE OR BLOCK | 3.0 | 2.5 | 1.5 |
| 8 | 90 | 4.0 | 2.5 | 2.0 |
| 8 | 45 | 2.5 | 2.0 | 1.5 |
| 8 | 22 1/2 | 2.0 | 1.5 | 1.0 |
| 12 | TEE OR BLOCK | 4.0 | 4.0 | 2.0 |
| 12 | 90 | 5.0 | 4.5 | 2.5 |
| 12 | 45 | 4.0 | 3.0 | 2.0 |
| 12 | 22 1/2 | 3.0 | 2.0 | 1.5 |

NOTE:
THIS TABLE BASED ON WATER PRESSURE 150 PSI
SOIL BRG. 1500 #/SQ. FT. TO 2000 #/SQ. FT.




TYPICAL FIRE HYDRANT ASSEMBLY
FIRE HYDRANT SHALL COMPLY IN ALL RESPECTS WITH AWWA STANDARD C-502, LATEST REVISION

| NO. | DATE | REVISION |
|---|---|---|
| | | |
| | | |
| | | |

SOUTH MILLS WATER ASSOCIATION, INC.
ID # 04-15-010
SOUTH MILLS CAMDEN COUNTY NORTH CAROLINA

FILE NO. P93023.2
SCALE: NO SCALE
DATE:
STANDARD DETAIL NO. W-4

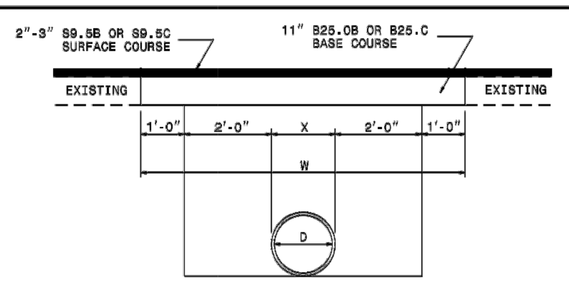
QUIBLE & ASSOCIATES, P.C.
ENGINEERING • PLANNING • ENVIRONMENTAL SCIENCE
P.O. DRAWER 870
KITTY HAWK, NC 27949

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

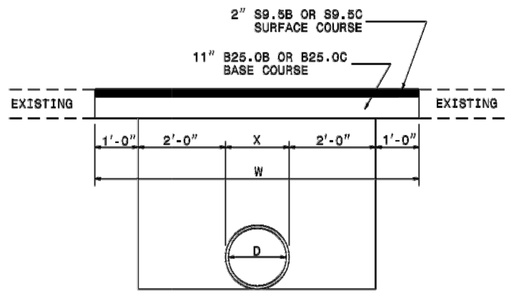
ENGLISH STANDARD DRAWING FOR
**PAVEMENT REPAIRS**
FOR SUPERPAVE MIX TYPES

SHEET 1 OF 1
654.01




PAVEMENT REPAIRS ON ROADS TO BE RESURFACED
(PIPE IS PLACED UNDER EXISTING PAVEMENT)

| D | X | W |
|---|---|---|
| 12" | 1'-4" | 7'-4" |
| 15" | 1'-7" | 7'-7" |
| 18" | 1'-10" | 7'-10" |
| 24" | 2'-6" | 8'-6" |
| 30" | 3'-1" | 9'-1" |
| 36" | 3'-8" | 9'-8" |
| 42" | 4'-5" | 10'-5" |
| 48" | 5'-0" | 11'-0" |



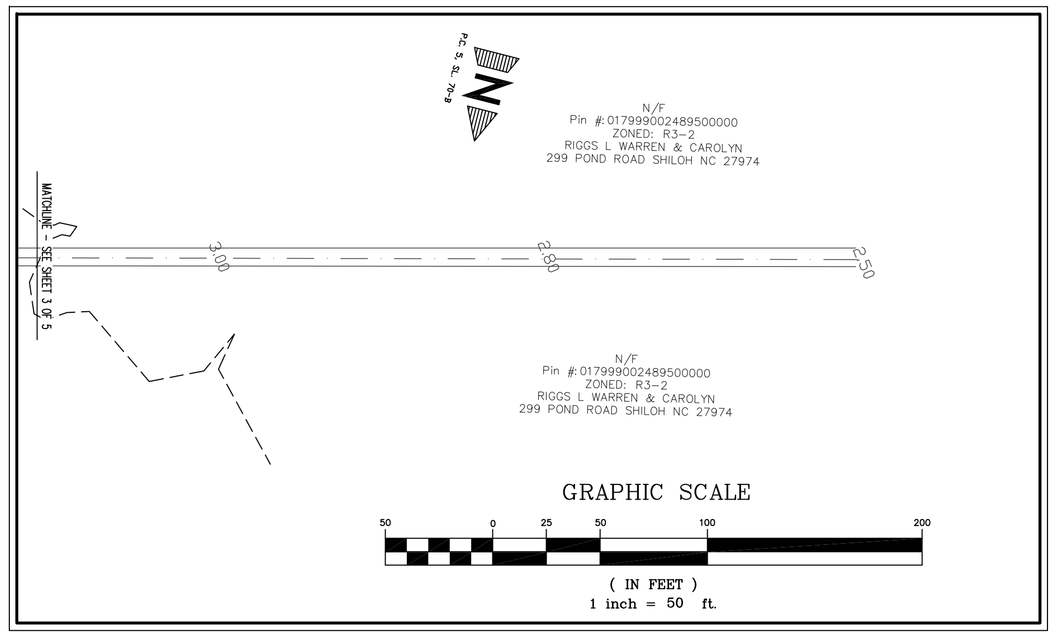

PAVEMENT REPAIRS ON ROADS NOT TO BE RESURFACED
(PIPE IS TO BE PLACED UNDER EXISTING PAVEMENT)

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
**PAVEMENT REPAIRS**
FOR SUPERPAVE MIX TYPES

SHEET 1 OF 1
654.01




| No. | Date | Description |
|---|---|---|
| 11 | 11/11/15 | PER NCDOT COMMENTS (11/09/15) |
| 11 | 10/09/15 | PER SOUTH MILLS WATER ASSOCIATION'S COMMENTS (09/30/15) |
| 10 | 09/15/15 | PER SOUTH MILLS WATER ASSOCIATION'S COMMENTS (08/26/15) |
| 9 | 09/09/15 | PER NCDENR EROSION AND SEDIMENT CONTROL COMMENTS (12/12/13) |
| 8 | 08/25/15 | UPGRADE OFFSITE WATERLINE TO 6"PVC. |
| 7 | 10/30/14 | PER CLIENT'S REQUEST (9/26/14) |
| 6 | 09/25/14 | PER COUNTY STORMWATER COMMENTS (9/2/14) |

REVISIONS

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 027121 11/11/15 HOLLIS D. SLITTEN


CAE, INC.
ENGINEERS, PLANNERS, AND CONSTRUCTION CONSULTANTS
321 OFFICE SQUARE LANE, SUITE 101A
VIRGINIA BEACH, VIRGINIA 23462-3655
TELEPHONE: (252) 562-0430 (757) 271-1009 FAX


Date: 6-17-13 | Scale: AS SHOWN | Drawn By: SM/HDE | Checked By: HDE | Designed By: KMM/HDE | Computed By: RW/HDE

**DETAIL SHEET**
OF
**GREEN MEADOWS SUBDIVISION**
PROPERTY OF
**GREEN MEADOWS, LLC**
PARCEL ID # 01.7999.00.34.9303.0000

**SOUTH MILLS TOWNSHIP** **CAMDEN COUNTY, NORTH CAROLINA**

SHEET 6 OF 6

2008-024