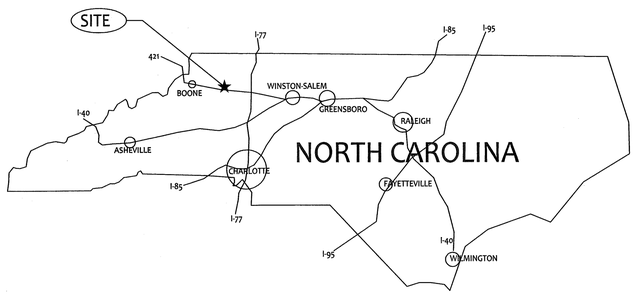
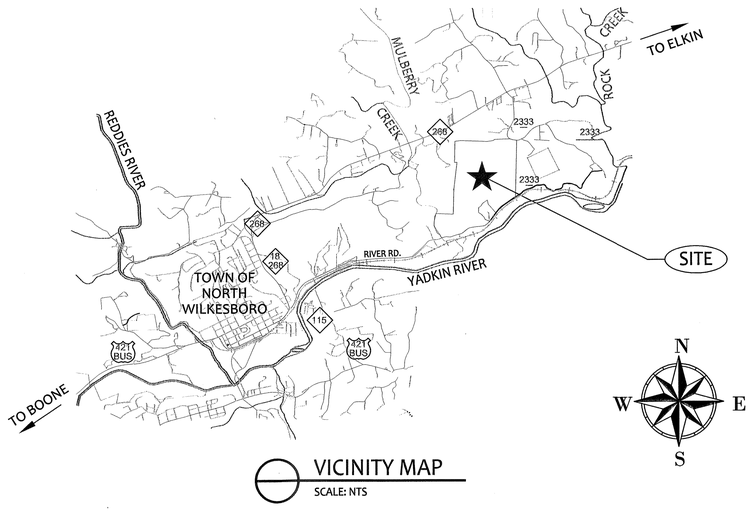
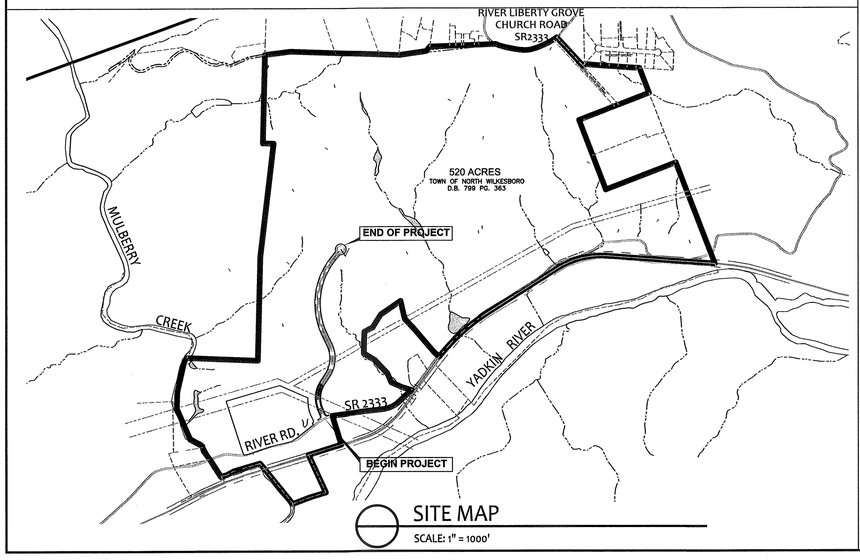


STATE VICINITY MAP
SCALE: NTS



VICINITY MAP
SCALE: NTS



SITE MAP
SCALE: 1" = 1000'

WBS ELEMENT No.: 45243.3.1

F.A.P. No.: APD-1119(5)

ACCESS ROAD
FOR
WILKES INDUSTRIAL PARK
T.I.P. No. R-5186

RIVER ROAD (SR 2333)
NORTH WILKESBORO, NC
WILKES COUNTY

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801 statesville road
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(336) 903-9138

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TOWN OF NORTH WILKESBORO
DALE SHUMATE
PUBLIC WORKS DIRECTOR
832 MAIN STREET
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(336) 667-7120 EXT. 3

BUILDING INSPECTIONS
TOWN OF NORTH WILKESBORO
CURT HAYES
832 MAIN STREET
N. WILKESBORO, NC 28659
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NATURAL GAS COMPANY
FRONTIER
1927 NORTH BRIDGE STREET
ELKIN, NC 28621
(336) 526-2690
(336) 526-9940 FAX

LEGEND

- CONCRETE MONUMENT FOUND
- CONCRETE MONUMENT SET
- 5/8" REBAR FOUND
- 5/8" CAPPED REBAR SET
- COMPUTED POINT
- G.P.S. MONUMENT
- RIGHT-OF-WAY MONUMENT
- OTHER MONUMENTS (AS NOTED)
- F.F.E. (FINISH FLOOR ELEV.)
- BORING SAMPLE SITE
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- GAS METER
- GAS VALVE
- CABLE PEDESTAL
- TELEPHONE PEDESTAL
- TELEPHONE MANHOLE
- SANITARY SEWER MANHOLE
- STORM DRAIN MANHOLE
- TRANSFORMER
- GUY WIRE
- EXIST. CATCH BASIN
- PROP. CATCH BASIN

PROPERTY LINES
RIGHT-OF-WAY
ADJACENT LINES
OLD TRACT LINES
TIE LINES
LINES NOT SURVEYED
FENCE
GUARDRAIL
SETBACK LINES
EASEMENT LINES
WATERCOURSE

FENCE LINE
SANITARY SEWER LINE
OVERHEAD ELECTRIC
GAS LINE
FIBER OPTIC LINE
UNDERGROUND ELECTRIC
EXISTING GRADE
PROPOSED GRADE

DRAWING INDEX

C-1	COVER SHEET
C-2	EXIST. CONDITIONS - DEMO. PLAN (STA. 0+00-10+00)
C-3	EXIST. CONDITIONS - DEMO. PLAN (STA. 10+00-26+23)
C-4	EROSION CONTROL (STA.0+00-10+00)
C-5	EROSION CONTROL (STA.10+00-26+23)
C-6	ROADWAY LAYOUT
C-7	PLAN & PROFILE (STA.0+00-10+00)
C-8	PLAN & PROFILE (STA.10+00-19+00)
C-9	PLAN & PROFILE (STA.19+00-26+23)
C-10	LANDSCAPE PLAN
C-11	CROSS SECTIONS (STA. 0+00 - 10+00)
C-12	CROSS SECTIONS (STA. 10+50 - 21+50)
C-13	CROSS SECTIONS (STA. 22+00 - 25+00)
C-14	EROSION CONTROL DETAILS
C-15	EROSION CONTROL DETAILS

811
Know what's **below.**
Call before you dig.

REVISIONS
PRE-BID SET ISSUE DATE / POST BID SET ISSUE DATE
1 TOWN COMMENTS 2/24/2011
2 TOWN COMMENTS 8/18/2011
3 NCDOT COMMENTS 12/12/2011
4 NCDOT COMMENTS 8/14/2012

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 28659 C. NEIL SHEPHERD
AUG 1 4 2012

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NC License #P-0205

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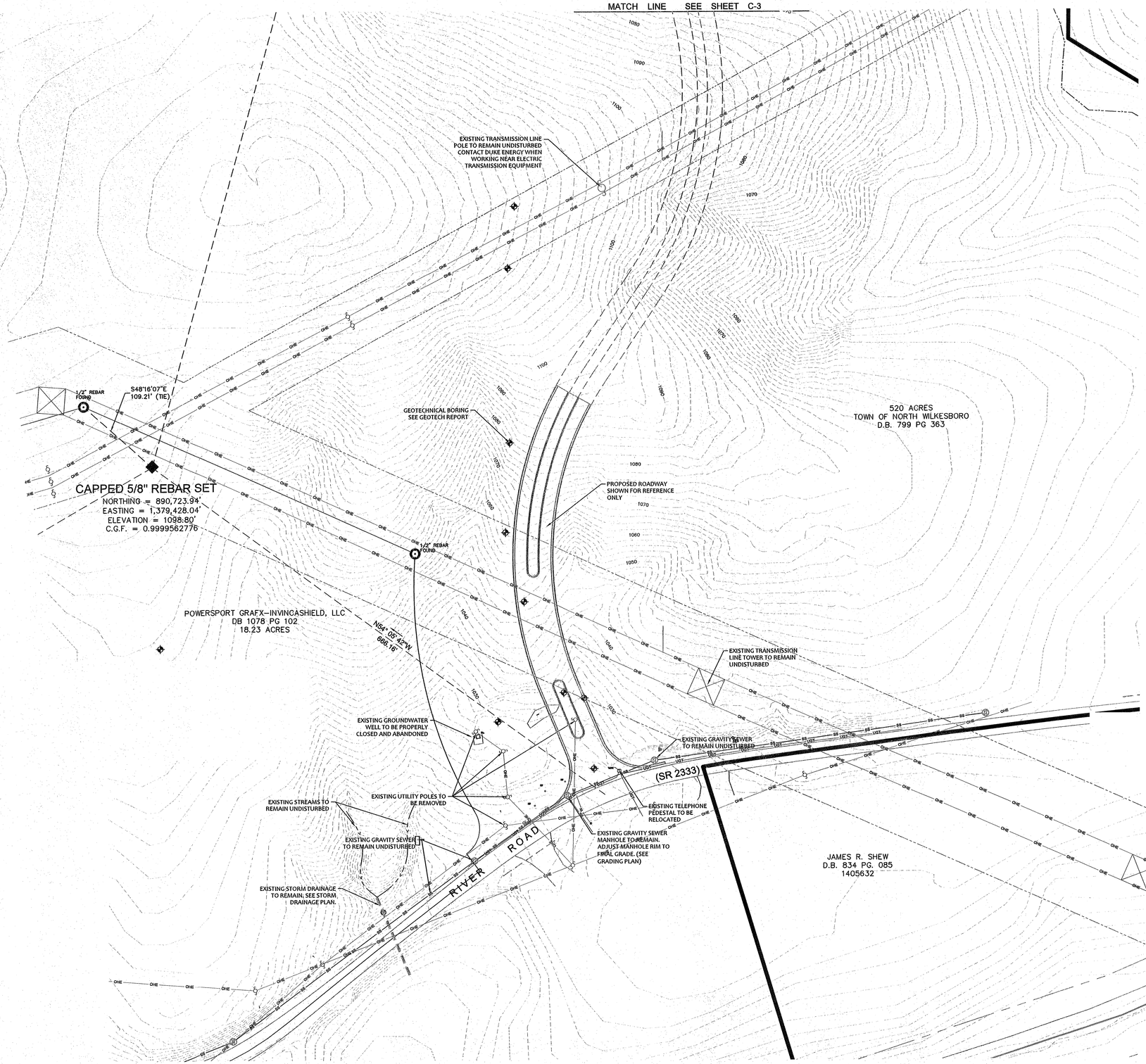
COVER SHEET
WILKES INDUSTRIAL PARK
RIVER ROAD (SR 2333)
NORTH WILKESBORO, NC 28659

PROJECT #	SCALE
8002	N/A
DATE	DRAWN BY
3/16/2009	MDS/RJG

SHEET
C-1



DEMOLITION NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY, METHODS, PROCEDURES, AND SEQUENCES OF ITS OPERATIONS.
2. CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION.
3. CONTRACTOR SHALL PROPERLY DISCONNECT ALL UTILITIES SERVING BUILDINGS TO BE DEMOLISHED.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTENCE AND ACTUAL LOCATION OF ANY EXISTING UTILITY LINES.
5. UTILITY REMOVAL/RELOCATION IS INCLUDED IN THIS SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE FOR WORK ASSOCIATED WITH MAINTAINING/REPAIRING UTILITY SERVICES AS NECESSARY.
6. NO WORK SHALL BE PERFORMED OUTSIDE THE DISTURBED LIMITS SHOWN ON THIS PLAN.
7. CONTRACTOR SHALL OBTAIN ALL PERMITS AND APPROVALS ASSOCIATED WITH THIS DEMOLITION WORK.
8. CONTRACTOR IS RESPONSIBLE FOR ALL NESHAP NOTIFICATIONS REQUIRED. ALL SUCH NOTIFICATIONS SHALL BE MADE AT LEAST TWO WEEKS PRIOR TO ANY DEMOLITION WORK.
9. ALL ASPHALT, TREES, STUMPS, BRUSH, ROOTS, STRUCTURES, WALLS, FOUNDATIONS, CURBS, TANKS, BARRELS, FLOOR SLABS, CONCRETE, METAL, SEPTIC TANKS, FENCING, SIGNS, PRIVATE POLES, TRASH, OTHER DEBRIS, AND UNSUITABLE FILL MATERIAL SHALL BE PROPERLY DISPOSED OF OFF-SITE.
10. EXISTING DRAINAGE PATTERNS SHALL BE MAINTAINED UNLESS DIRECTED OTHERWISE BY THE EROSION CONTROL PLANS. ALL AREAS OF THE SITE SHALL BE SHAPED TO DRAIN AFTER COMPLETION OF DEMOLITION OPERATIONS.
11. CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL FOR ITS OPERATIONS.
12. BUILDING AREAS SHOWN ARE FOR ESTIMATING PURPOSES ONLY AND SHOULD NOT BE CONSIDERED PRECISE.
13. CONTRACTOR SHALL INSTALL ABUNDANT ORANGE SAFETY FENCING ON THE PROJECT TO PREVENT OTHERS FROM ENTERING THE WORK AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFETY FENCING AS NECESSARY FOR THE DURATION OF THE PROJECT.

REVISIONS

◇ PRE-BID SET ISSUE DATE	△ POST BID SET ISSUE DATE
1	TOWN COMMENTS 2/24/2011
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4	NCDOT COMMENTS 8/14/2012

NORTH CAROLINA PROFESSIONAL SEAL 034880 ENGINEER MICHAEL D. SMITH

DEC 12 2011

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PREPARED FOR:

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EXIST. CONDITIONS - DEMO. MAP (STA. 0+00-10+00)

WILKES INDUSTRIAL PARK
RIVER ROAD (SR 2333)
NORTH WILKESBORO, NC 28659

PROJECT #	SCALE
8002	1"=60'
DATE	DRAWN BY
3/16/2009	MDS/RJG

SHEET

C-2

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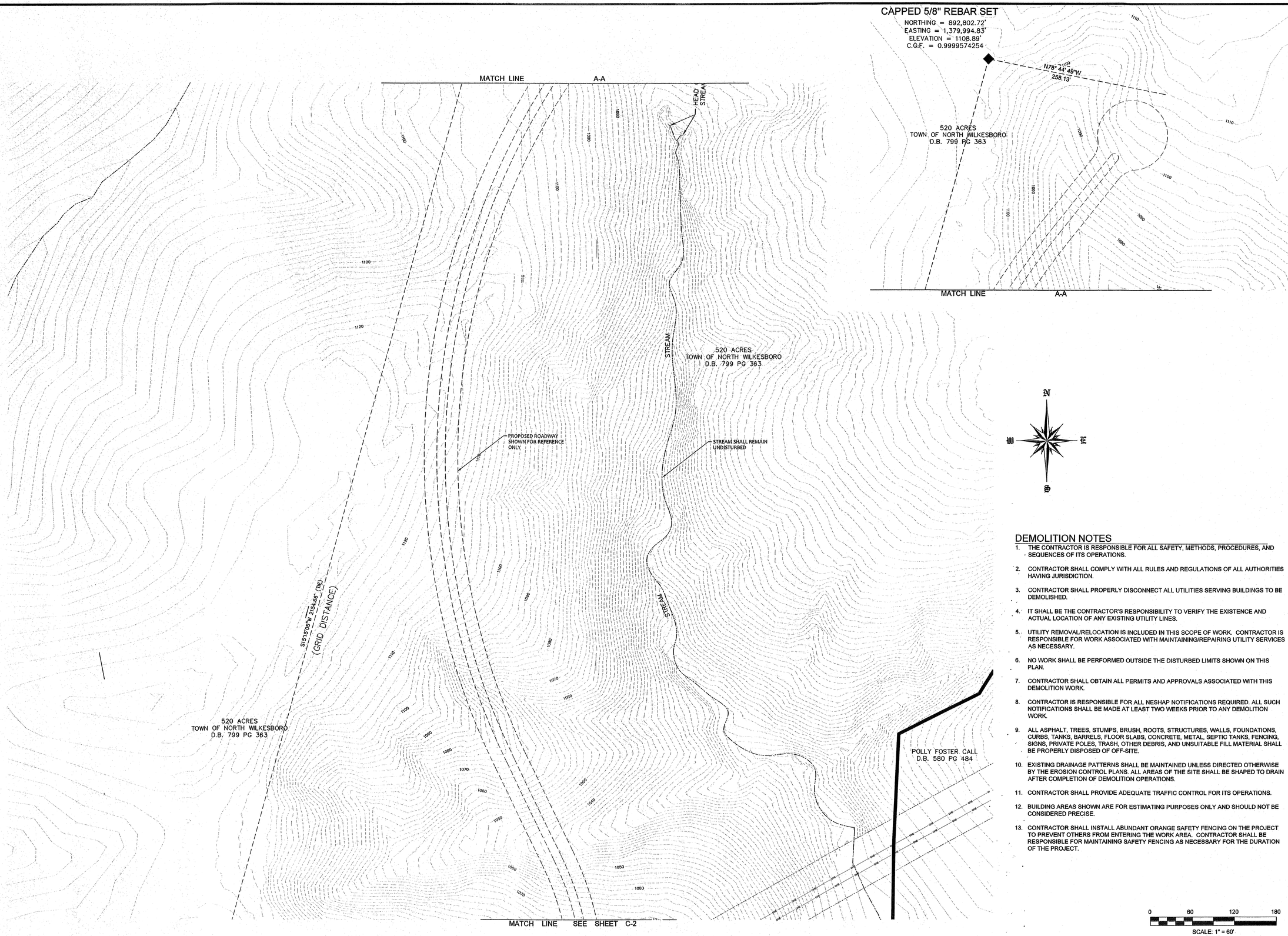

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9. ALL ASPHALT, TREES, STUMPS, BRUSH, ROOTS, STRUCTURES, WALLS, FOUNDATIONS, CURBS, TANKS, BARRELS, FLOOR SLABS, CONCRETE, METAL, SEPTIC TANKS, FENCING, SIGNS, PRIVATE POLES, TRASH, OTHER DEBRIS, AND UNSUITABLE FILL MATERIAL SHALL BE PROPERLY DISPOSED OF OFF-SITE.
10. EXISTING DRAINAGE PATTERNS SHALL BE MAINTAINED UNLESS DIRECTED OTHERWISE BY THE EROSION CONTROL PLANS. ALL AREAS OF THE SITE SHALL BE SHAPED TO DRAIN AFTER COMPLETION OF DEMOLITION OPERATIONS.
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REVISIONS

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1 TOWN COMMENTS 2/24/2011	
2 TOWN COMMENTS 8/18/2011	
3 NCDOT COMMENTS 12/12/2011	
4 NCDOT COMMENTS 8/14/2012	

NORTH CAROLINA PROFESSIONAL SEAL 034880 ENGINEER ROBERT J. GRUBBS

DEC 12 2011

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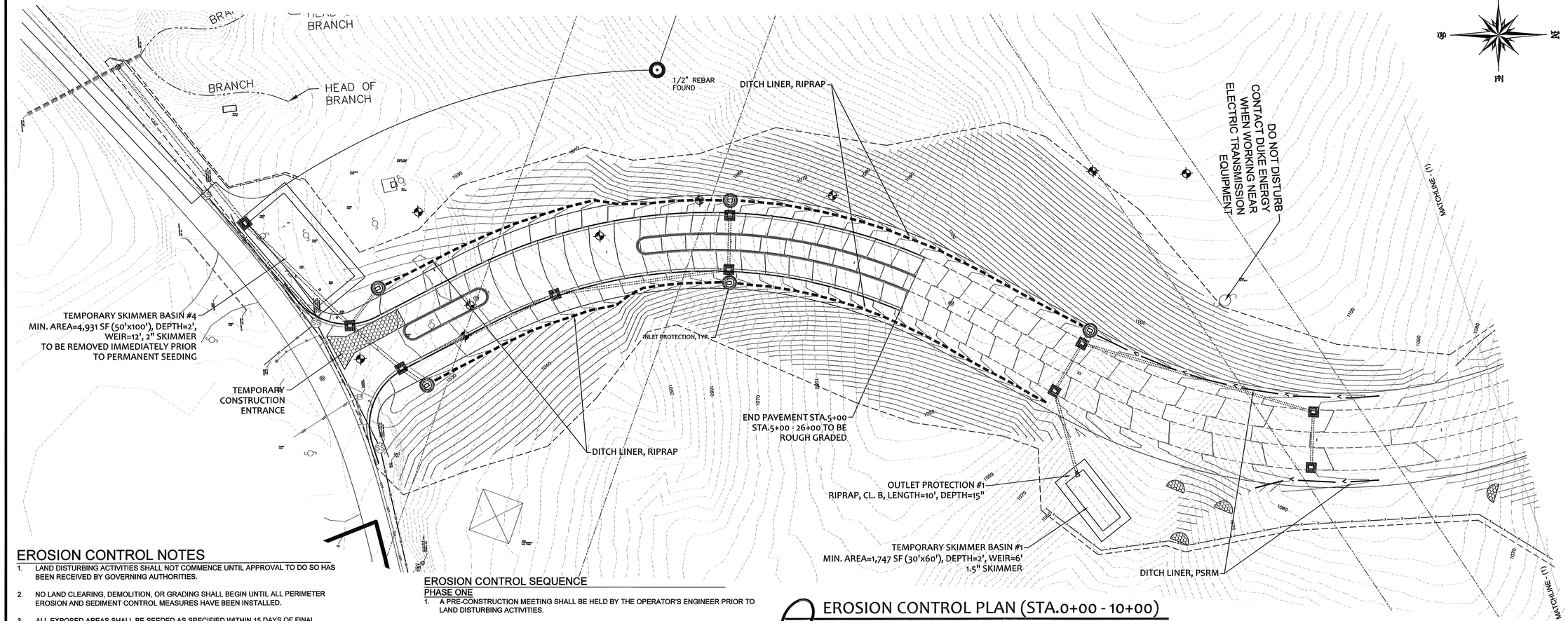
EXIST. CONDITIONS - DEMO. MAP (STA. 10+00-26+23)

WILKES INDUSTRIAL PARK
RIVER ROAD (SR 2333)
NORTH WILKESBORO, NC 28659

PROJECT #	SCALE
8002	1"=60'
DATE	DRAWN BY
3/16/2009	MDS/RJG

SHEET
C-3

Z:\PROJECTS\2008\8002 North Wilkesboro Industrial Park\CAD\Engineering\2011 Design Drawings\PLOT FILES\8002 PLSP-2011-12-12.dwg, 12/13/2011 12:08:17 PM, 111



EROSION CONTROL NOTES

1. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES.
2. NO LAND CLEARING, DEMOLITION, OR GRADING SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED.
3. ALL EXPOSED AREAS SHALL BE SEEDED AS SPECIFIED WITHIN 15 DAYS OF FINAL GRADING.
4. SHOULD CONSTRUCTION STOP FOR LONGER THAN 14 DAYS, THE SITE SHALL BE SEEDED AS SPECIFIED.
5. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS OF A RAINFALL EXCEEDING 0.5 INCHES DURING A 24-HOUR PERIOD OR MORE FREQUENTLY IF REQUIRED BY GOVERNING NPDES GENERAL PERMIT. ALL MAINTENANCE REQUIRED BY INSPECTION SHALL COMMENCE WITHIN 24 HOURS AND BE COMPLETED WITHIN 48 HOURS OF REPORT.
6. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
7. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
8. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
9. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
11. SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT BASIN BEFORE IT IS 25% FULL AND FROM SILT FENCE BEFORE IT IS 33% FULL.
12. THE CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY, METHODS, PROCEDURES AND SEQUENCES OF ITS OPERATIONS.
13. NO WORK SHALL BE PERFORMED OUTSIDE THE DISTURBED LIMITS SHOWN ON THIS PLAN.
14. CONTRACTOR SHALL OBTAIN ALL PERMITS AND APPROVALS ASSOCIATED WITH THIS WORK.
15. EXISTING DRAINAGE PATTERNS SHALL BE MAINTAINED UNLESS OTHERWISE SHOWN ON THE PLANS. ALL AREAS OF THE SITE SHALL BE SHAPED TO DRAIN TO EROSION CONTROL DEVICES.
16. CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL FOR ITS OPERATIONS.
17. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE EXISTENCE AND ACTUAL LOCATION OF ALL EXISTING UTILITY LINES.
18. THE CONTRACTOR SHALL KEEP ALL STREETS AND ROADWAYS CLEAN. THIS SHALL BE ACCOMPLISHED BY STREET SWEEPING AND WASHING AS NECESSARY ON A DAILY BASIS.
19. SILT FENCE STONE OUTLETS SHALL BE INSTALLED AT LEAST EVERY 100LF AND IN LOW LYING LOCATIONS ALONG THE SILT FENCE.

EROSION CONTROL SEQUENCE

PHASE ONE

1. A PRE-CONSTRUCTION MEETING SHALL BE HELD BY THE OPERATOR'S ENGINEER PRIOR TO LAND DISTURBING ACTIVITIES.
2. CONSTRUCT TEMPORARY CONSTRUCTION EXITS AT LOCATIONS SHOWN ON THE PLAN SHEET.
3. INSTALL PERIMETER PROTECTION MEASURES AND TEMPORARY SEDIMENT BASINS AND TEMPORARY DIVERSION CHANNELS AND SLOPE DRAINS IN THE LOCATIONS SHOWN ON THE PLAN SHEET.
4. BEGIN CLEARING AND GRUBBING OPERATIONS. CLEARING AND GRUBBING SHALL BE DONE ONLY IN AREAS WHERE EARTHWORK WILL BE PERFORMED AND ONLY IN AREAS WHERE BUILDING IS PLANNED TO COMMENCE WITHIN 7 DAYS AFTER CLEARING AND GRUBBING.
5. IMPLEMENT TEMPORARY OR PERMANENT STABILIZATION FOR ALL AREAS OF THE SITE WHERE GRADING ACTIVITY HAS CEASED PER SOIL STABILIZATION TIMEFRAMES, SEE TABLE.

PHASE TWO

1. COMMENCE SITE GRADING.
2. IMPLEMENT TEMPORARY OR PERMANENT STABILIZATION FOR ALL AREAS OF THE SITE WHERE GRADING ACTIVITY HAS CEASED PER SOIL STABILIZATION TIMEFRAMES, SEE TABLE.
3. INSTALL INLET/OUTLET PROTECTION AT THE LOCATIONS OF ALL GRATE INLETS, CURB INLETS, AND AT THE ENDS OF ALL EXPOSED STORM DRAINAGE PIPES.
4. COMMENCE SITE GRADING OF ROADWAY. INSTALL STORM DRAINAGE AND PROTECTION MEASURES.
5. FINALIZE PAVEMENT SUB-GRADE PREPARATION.
6. CONSTRUCT ALL CURB AND GUTTER, CURB INLETS, AREA INLETS, AND STORM DRAINAGE MANHOLES, AS SHOWN ON THE PLANS. INLET PROTECTION MAY BE REMOVED TEMPORARILY FOR THIS CONSTRUCTION. REPLACE ANY REMOVED INLET PROTECTION AT THE END OF EACH DAY. PLACE REQUIRED OUTLET PROTECTION AT LOCATIONS SHOWN ON THE PLANS.
7. REMOVE INLET PROTECTION AROUND INLETS AND MANHOLES NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE. INLET PROTECTION IS TO REMAIN AT ALL INLETS UNTIL CONTRIBUTING AREA ACHIEVES FINAL STABILIZATION AND/OR ALL POTENTIAL POLLUTANT SOURCES ARE ELIMINATED.
8. INSTALL BASE MATERIAL AS REQUIRED FOR PAVEMENT.
9. COMPLETE FINAL GRADING AND PERMANENT SEEDING, PLANTING AND MULCHING STABILIZATION. CONTRACTOR SHALL REPAIR ANY RUTTING OR WASHOUTS OF SLOPES AND FIELDS UNTIL FINAL STABILIZATION IS ACHIEVED.
10. INSPECT AND CLEAN STORM DRAINAGE SYSTEM.
11. BMP INSPECTIONS, MAINTENANCE, RECORD KEEPING AND SITE POSTING SHALL CONTINUE UNTIL FINAL STABILIZATION.
12. REMOVE PERIMETER PROTECTION MEASURES (SEDIMENT FENCING) ONLY AFTER ALL PAVING IS COMPLETE AND ALL EXPOSED SURFACES ARE STABILIZED.
13. REMOVE TEMPORARY CONSTRUCTION ENTRANCES ONLY PRIOR TO PAVEMENT CONSTRUCTION IN THESE AREAS (THESE AREAS ARE TO BE PAVED LAST).

EROSION CONTROL PLAN (STA.0+00 - 10+00)

SCALE: 1"=40'

4 THIS PROJECT ORIGINALLY DESIGNED BY RONALD J. GEORGE, PE WITH FINAL DESIGN PLANS ISSUED FOR CONSTRUCTION DATED DECEMBER 12, 2011. REVISION #4 INCLUDES ADDITIONAL EROSION CONTROL DEVICES REQUESTED PER NCDOT REVIEW.

EROSION CONTROL LEGEND

SCALE: NTS

- TEMPORARY CONSTRUCTION ENTRANCE, NCDOT #1607.01
- TEMPORARY SILT FENCE, NCDOT #1605.01
- CHECK DAM, NCDOT #1633.02
- INLET PROTECTION, NCDOT #1632.03
- INLET PROTECTION, NCDOT #1632.03 (OVER EXCAVATE FOR SEDIMENT STORAGE)
- DITCH LINER, RIPRAP
- DITCH LINER, PSRM
- DITCH LINER, MATTING

0 40 80 120

SCALE: 1" = 40'

REVISIONS

PRE-BID SET ISSUE DATE | POST BID SET ISSUE DATE

1 TOWN COMMENTS 2/24/2011
2 TOWN COMMENTS 8/18/2011
3 NCDOT COMMENTS 12/12/2011
4 NCDOT COMMENTS 8/14/2012

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 029361 RONALD J. GEORGE

AUG 14 2012

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EROSION CONTROL (STA. 0+00 - 10+00)

WILKES INDUSTRIAL PARK
RIVER ROAD (SR 2333)
NORTH WILKESBORO, NC 28659

PROJECT #	SCALE
8002	1"=40'
DATE	DRAWN BY
3/16/2009	MDS/RJG

SHEET

C-4

EROSION CONTROL NOTES

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3. ALL EXPOSED AREAS SHALL BE SEEDED AS SPECIFIED WITHIN 15 DAYS OF FINAL GRADING.
4. SHOULD CONSTRUCTION STOP FOR LONGER THAN 14 DAYS, THE SITE SHALL BE SEEDED AS SPECIFIED.
5. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS OF A RAINFALL EXCEEDING 0.5 INCHES DURING A 24-HOUR PERIOD OR MORE FREQUENTLY IF REQUIRED BY GOVERNING NPDES GENERAL PERMIT. ALL MAINTENANCE REQUIRED BY INSPECTION SHALL COMMENCE WITHIN 24 HOURS AND BE COMPLETED WITHIN 48 HOURS OF REPORT.
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13. NO WORK SHALL BE PERFORMED OUTSIDE THE DISTURBED LIMITS SHOWN ON THIS PLAN.
14. CONTRACTOR SHALL OBTAIN ALL PERMITS AND APPROVALS ASSOCIATED WITH THIS WORK.
15. EXISTING DRAINAGE PATTERNS SHALL BE MAINTAINED UNLESS OTHERWISE SHOWN ON THE PLANS. ALL AREAS OF THE SITE SHALL BE SHAPED TO DRAIN TO EROSION CONTROL DEVICES.
16. CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL FOR ITS OPERATIONS.
17. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE EXISTENCE AND ACTUAL LOCATION OF ALL EXISTING UTILITY LINES.
18. THE CONTRACTOR SHALL KEEP ALL STREETS AND ROADWAYS CLEAN. THIS SHALL BE ACCOMPLISHED BY STREET SWEEPING AND WASHING AS NECESSARY ON A DAILY BASIS.
19. SILT FENCE STONE OUTLETS SHALL BE INSTALLED AT LEAST EVERY 100LF AND IN LOW LYING LOCATIONS ALONG THE SILT FENCE.

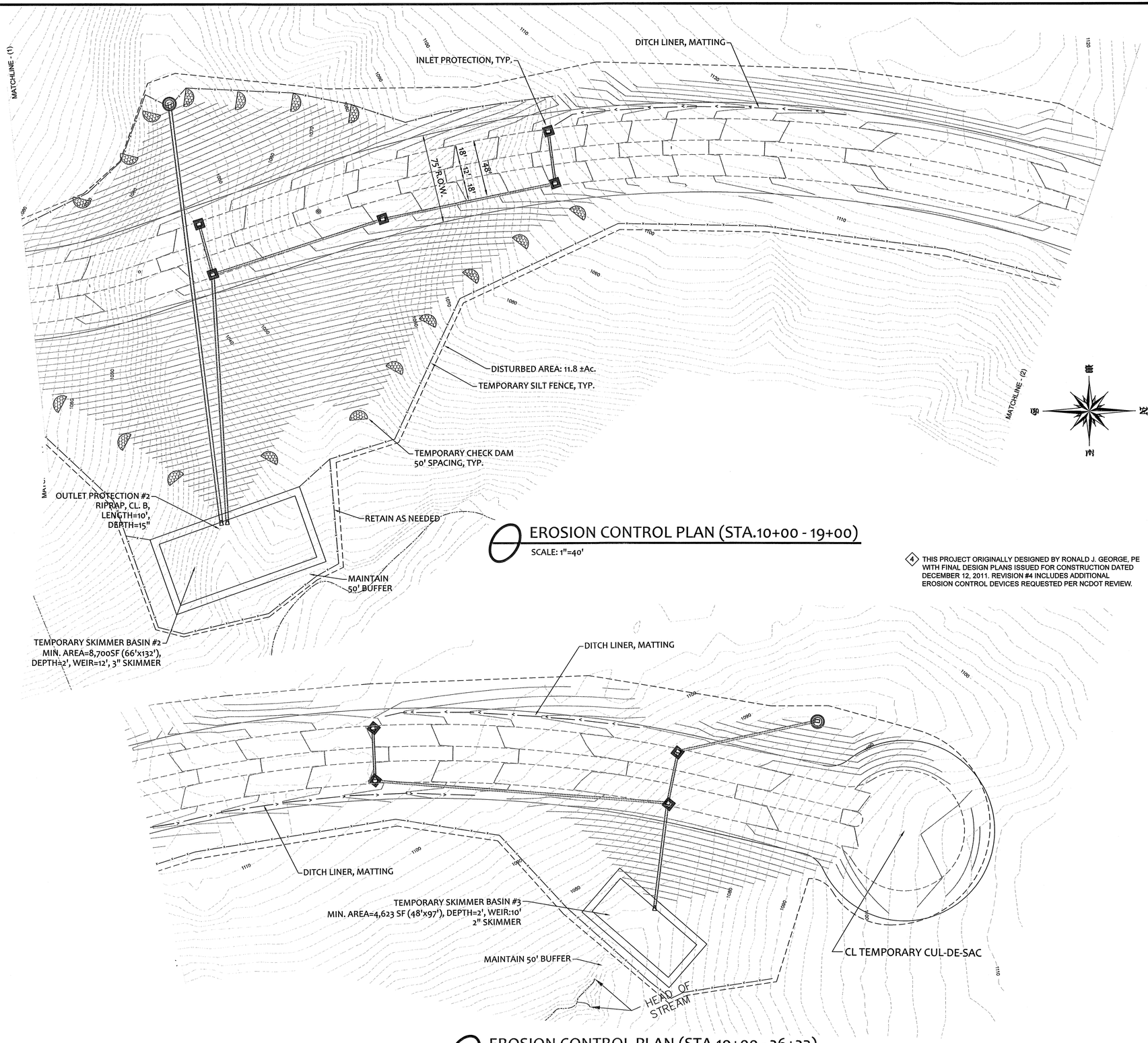
EROSION CONTROL SEQUENCE

PHASE ONE

1. A PRE-CONSTRUCTION MEETING SHALL BE HELD BY THE OPERATOR'S ENGINEER PRIOR TO LAND DISTURBING ACTIVITIES.
2. CONSTRUCT TEMPORARY CONSTRUCTION EXITS AT LOCATIONS SHOWN ON THE PLAN SHEET.
3. INSTALL PERIMETER PROTECTION MEASURES AND TEMPORARY SEDIMENT BASINS AND TEMPORARY DIVERSION CHANNELS AND SLOPE DRAINS IN THE LOCATIONS SHOWN ON THE PLAN SHEET.
4. BEGIN CLEARING AND GRUBBING OPERATIONS. CLEARING AND GRUBBING SHALL BE DONE ONLY IN AREAS WHERE EARTHWORK WILL BE PERFORMED AND ONLY IN AREAS WHERE BUILDING IS PLANNED TO COMMENCE WITHIN 7 DAYS AFTER CLEARING AND GRUBBING.
5. IMPLEMENT TEMPORARY OR PERMANENT STABILIZATION FOR ALL AREAS OF THE SITE WHERE GRADING ACTIVITY HAS CEASED PER SOIL STABILIZATION TIMEFRAMES, SEE TABLE.

PHASE TWO

1. COMMENCE SITE GRADING.
2. IMPLEMENT TEMPORARY OR PERMANENT STABILIZATION FOR ALL AREAS OF THE SITE WHERE GRADING ACTIVITY HAS CEASED PER SOIL STABILIZATION TIMEFRAMES, SEE TABLE.
3. INSTALL INLET/OUTLET PROTECTION AT THE LOCATIONS OF ALL GRATE INLETS, CURB INLETS, AND AT THE ENDS OF ALL EXPOSED STORM DRAINAGE PIPES.
4. COMMENCE SITE GRADING OF ROADWAY. INSTALL STORM DRAINAGE AND PROTECTION MEASURES.
5. FINALIZE PAVEMENT SUB-GRADE PREPARATION.
6. CONSTRUCT ALL CURB AND GUTTER, CURB INLETS, AREA INLETS, AND STORM DRAINAGE MANHOLES, AS SHOWN ON THE PLANS. INLET PROTECTION MAY BE REMOVED TEMPORARILY FOR THIS CONSTRUCTION. REPLACE ANY REMOVED INLET PROTECTION AT THE END OF EACH DAY. PLACE REQUIRED OUTLET PROTECTION AT LOCATIONS SHOWN ON THE PLANS.
7. REMOVE INLET PROTECTION AROUND INLETS AND MANHOLES NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE. INLET PROTECTION IS TO REMAIN AT ALL INLETS UNTIL CONTRIBUTING AREA ACHIEVES FINAL STABILIZATION AND/OR ALL POTENTIAL POLLUTANT SOURCES ARE ELIMINATED.
8. INSTALL BASE MATERIAL AS REQUIRED FOR PAVEMENT.
9. COMPLETE FINAL GRADING AND PERMANENT SEEDING, PLANTING AND MULCHING STABILIZATION. CONTRACTOR SHALL REPAIR ANY RUTTING OR WASHOUTS OF SLOPES AND FIELDS UNTIL FINAL STABILIZATION IS ACHIEVED.
10. INSPECT AND CLEAN STORM DRAINAGE SYSTEM.
11. BMP INSPECTIONS, MAINTENANCE, RECORD KEEPING AND SITE POSTING SHALL CONTINUE UNTIL FINAL STABILIZATION.
12. REMOVE PERIMETER PROTECTION MEASURES (SEDIMENT FENCING) ONLY AFTER ALL PAVING IS COMPLETE AND ALL EXPOSED SURFACES ARE STABILIZED.
13. REMOVE TEMPORARY CONSTRUCTION ENTRANCES ONLY PRIOR TO PAVEMENT CONSTRUCTION IN THESE AREAS (THESE AREAS ARE TO BE PAVED LAST).



EROSION CONTROL PLAN (STA.10+00 - 19+00)

SCALE: 1"=40'

4 THIS PROJECT ORIGINALLY DESIGNED BY RONALD J. GEORGE, PE WITH FINAL DESIGN PLANS ISSUED FOR CONSTRUCTION DATED DECEMBER 12, 2011. REVISION #4 INCLUDES ADDITIONAL EROSION CONTROL DEVICES REQUESTED PER NCDOT REVIEW.

EROSION CONTROL PLAN (STA.19+00 - 26+23)

SCALE: 1"=40'

0 40 80 120

SCALE: 1" = 40'

REVISIONS

PRE-BID SET ISSUE DATE / POST BID SET ISSUE DATE

1	TOWN COMMENTS 2/24/2011
2	TOWN COMMENTS 8/18/2011
3	NCDOT COMMENTS 12/12/2011
4	NCDOT COMMENTS 8/14/2012

NORTH CAROLINA PROFESSIONAL SEAL 029210 ENGINEER NEIL SHEPHERD

AUG 1 4 2012

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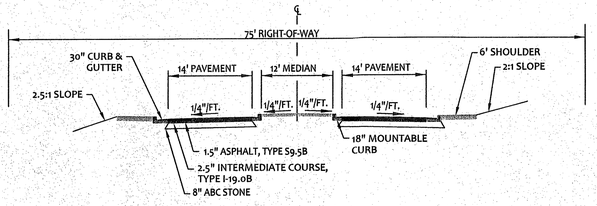
EROSION CONTROL (STA. 10+00 - 26+23)

WILKES INDUSTRIAL PARK
RIVER ROAD (SR 2333)
NORTH WILKESBORO, NC 28659

PROJECT #	SCALE
8002	1"=40'
DATE	DRAWN BY
3/16/2009	RJG/MDS

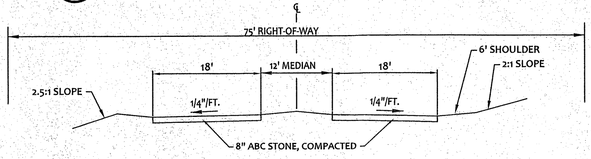
SHEET

C-5



ROADWAY SECTION (PAVED) STA. 0+00 to 5+00

SCALE: NTS



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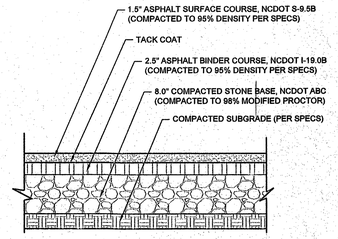
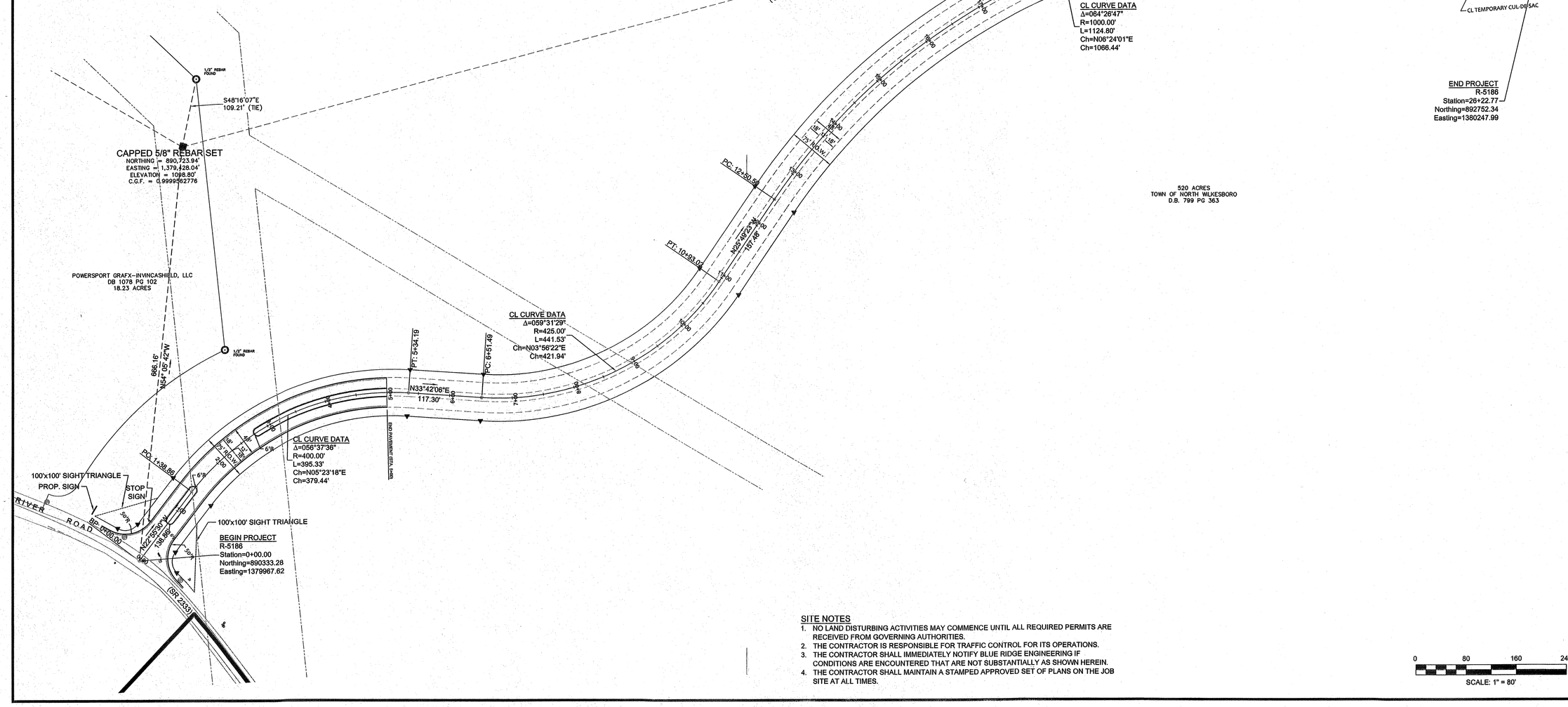


HEAVY DUTY ASPHALT PAVEMENT

SCALE: NTS



SITE NOTES

1. NO LAND DISTURBING ACTIVITIES MAY COMMENCE UNTIL ALL REQUIRED PERMITS ARE RECEIVED FROM GOVERNING AUTHORITIES.
2. THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL FOR ITS OPERATIONS.
3. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY BLUE RIDGE ENGINEERING IF CONDITIONS ARE ENCOUNTERED THAT ARE NOT SUBSTANTIALLY AS SHOWN HEREIN.
4. THE CONTRACTOR SHALL MAINTAIN A STAMPED APPROVED SET OF PLANS ON THE JOB SITE AT ALL TIMES.

0 80 160 240

SCALE: 1" = 80'

REVISIONS

PRE-BID SET ISSUE DATE	POST BID SET ISSUE DATE
1 TOWN COMMENTS 2/24/2011	
2 TOWN COMMENTS 8/18/2011	
3 NCDOT COMMENTS 12/12/2011	
4 NCDOT COMMENTS 8/14/2012	

NORTH CAROLINA PROFESSIONAL SEAL 034680 ENGINEER ROBERT J. GRAY

DEC 12 2011

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ROADWAY LAYOUT

WILKES INDUSTRIAL PARK
RIVER ROAD (SR 2333)
NORTH WILKESBORO, NC 28659

PROJECT #	SCALE
8002	1"=80'
DATE	DRAWN BY
3/16/2009	MDS/RJG

SHEET
C-6

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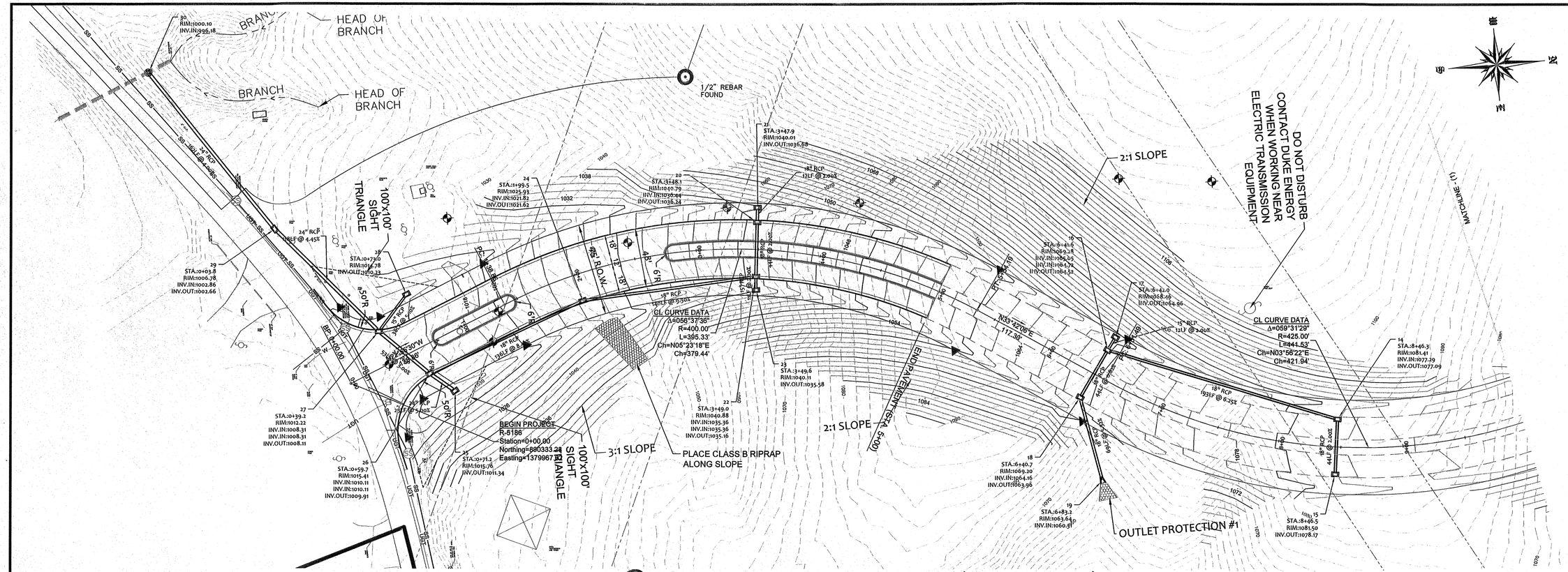
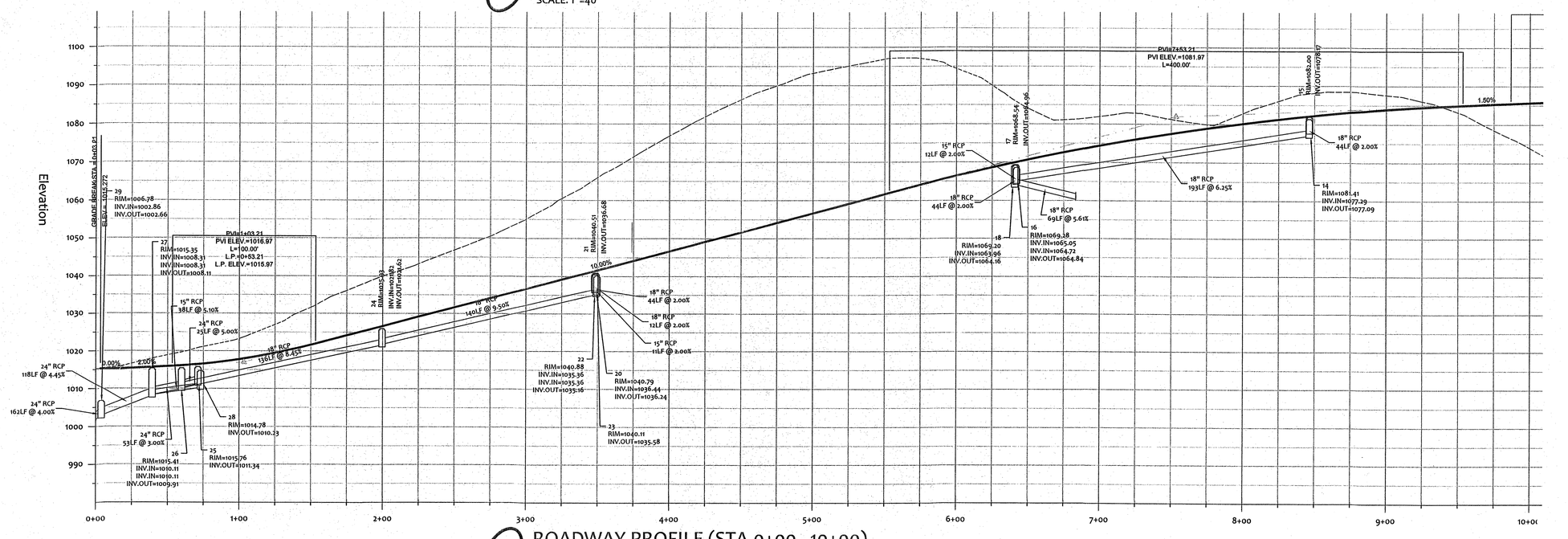


ROADWAY GRADING & DRAINAGE PLAN (STA.0+00 - 10+00)

SCALE: 1"=40'



ROADWAY PROFILE (STA.0+00 - 10+00)

HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=15'

0 40 80 120
SCALE: 1" = 40'

REVISIONS	PRE-BID SET ISSUE DATE	POST BID SET ISSUE DATE
1	TOWN COMMENTS 2/24/2011	
2	TOWN COMMENTS 8/18/2011	
3	NCDOT COMMENTS 12/12/2011	
4	NCDOT COMMENTS 8/14/2012	

NORTH CAROLINA PROFESSIONAL SEAL 034980 ENGINEER RONALD J. GIBBONS
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PLAN & PROFILE (STA. 0+00 - 10+00)
WILKES INDUSTRIAL PARK
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NORTH WILKESBORO, NC 28659

PROJECT #	SCALE
8002	AS NOTED
DATE	DRAWN BY
3/16/2009	MDS/RJG

SHEET
C-7

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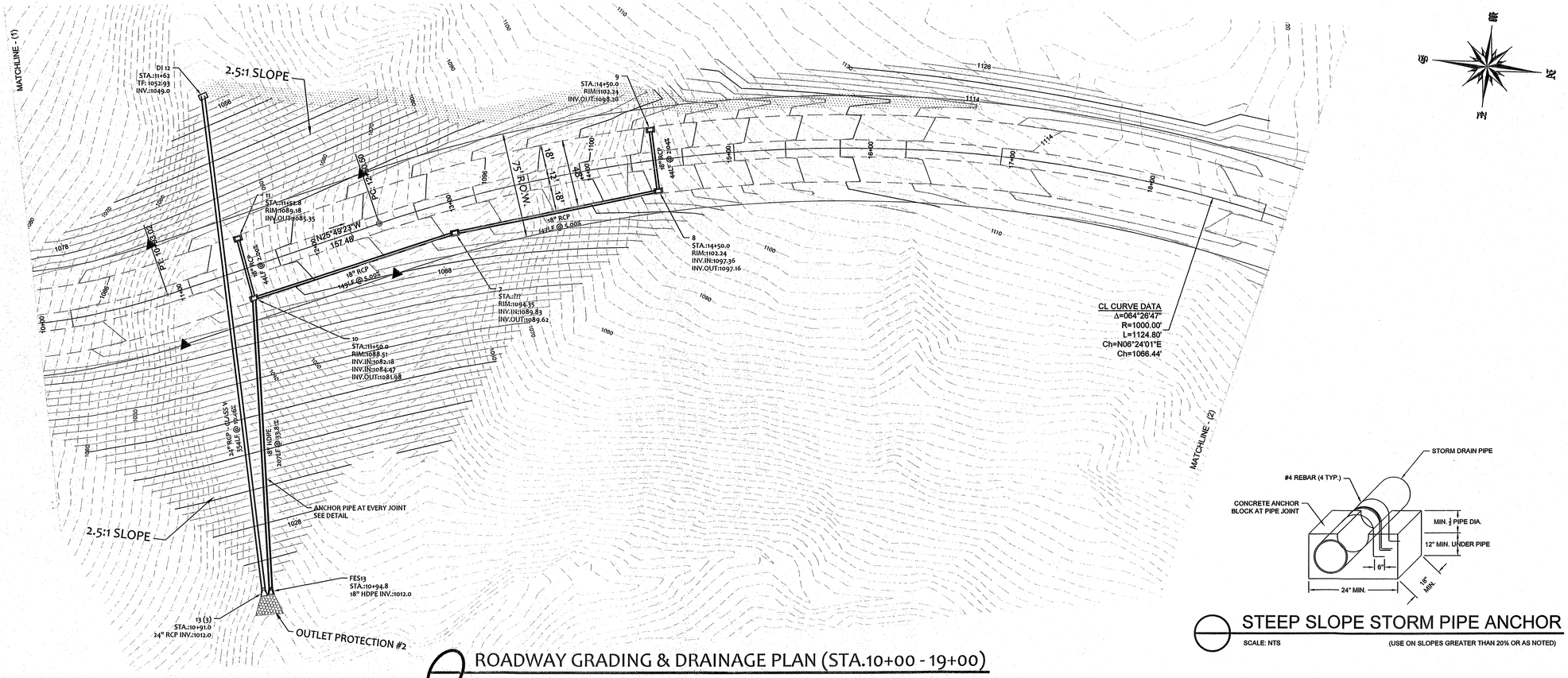

ROADWAY GRADING & DRAINAGE PLAN (STA.10+00 - 19+00)

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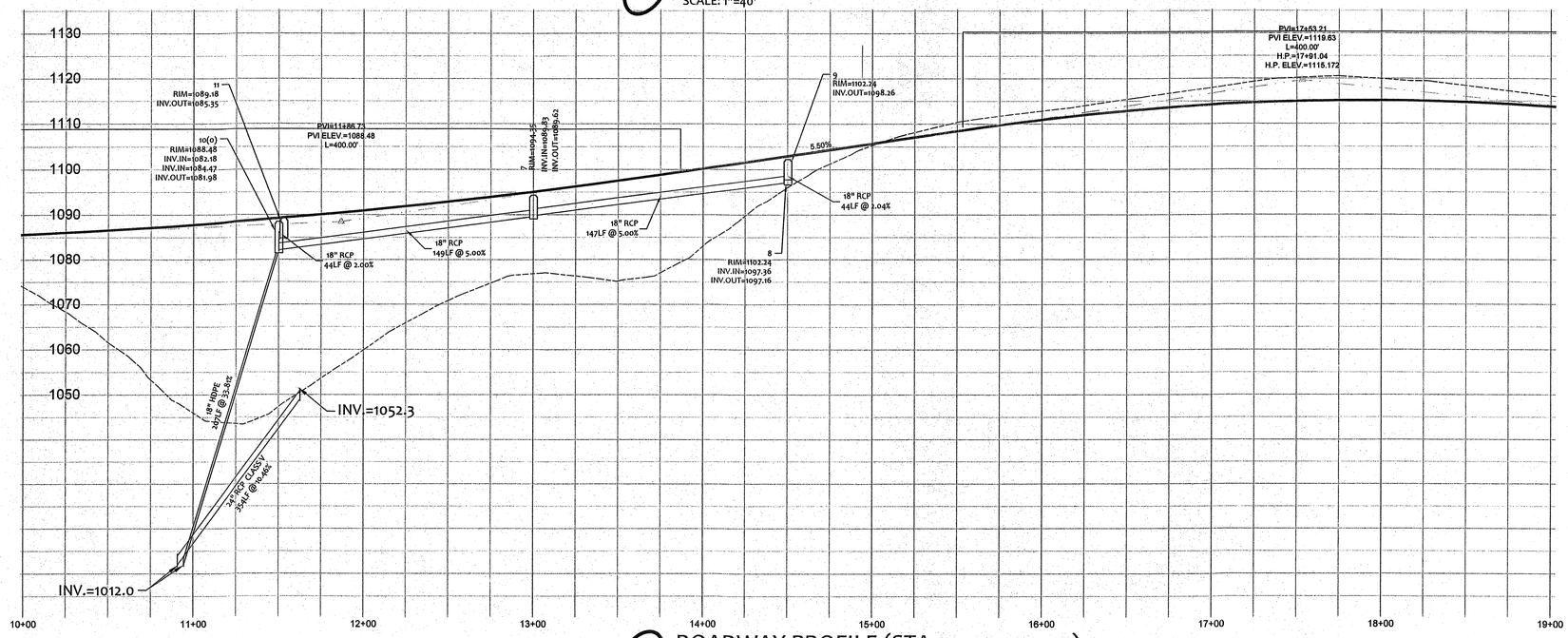

ROADWAY PROFILE (STA.10+00 - 19+00)

HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=15'

STEEP SLOPE STORM PIPE ANCHOR

SCALE: NTS (USE ON SLOPES GREATER THAN 20% OR AS NOTED)

0 40 80 120
SCALE: 1" = 40'

REVISIONS

PRE-BID SET ISSUE DATE | POST BID SET ISSUE DATE

- TOWN COMMENTS 2/24/2011
- TOWN COMMENTS 8/18/2011
- NCDOT COMMENTS 12/12/2011
- NCDOT COMMENTS 8/14/2012

NORTH CAROLINA PROFESSIONAL SEAL 034686 ENGINEER RONALD J. SOMMERS
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PLAN & PROFILE (STA. 10+00 - 19+00)

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PROJECT #	SCALE
8002	AS NOTED
DATE	DRAWN BY
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SHEET
C-8

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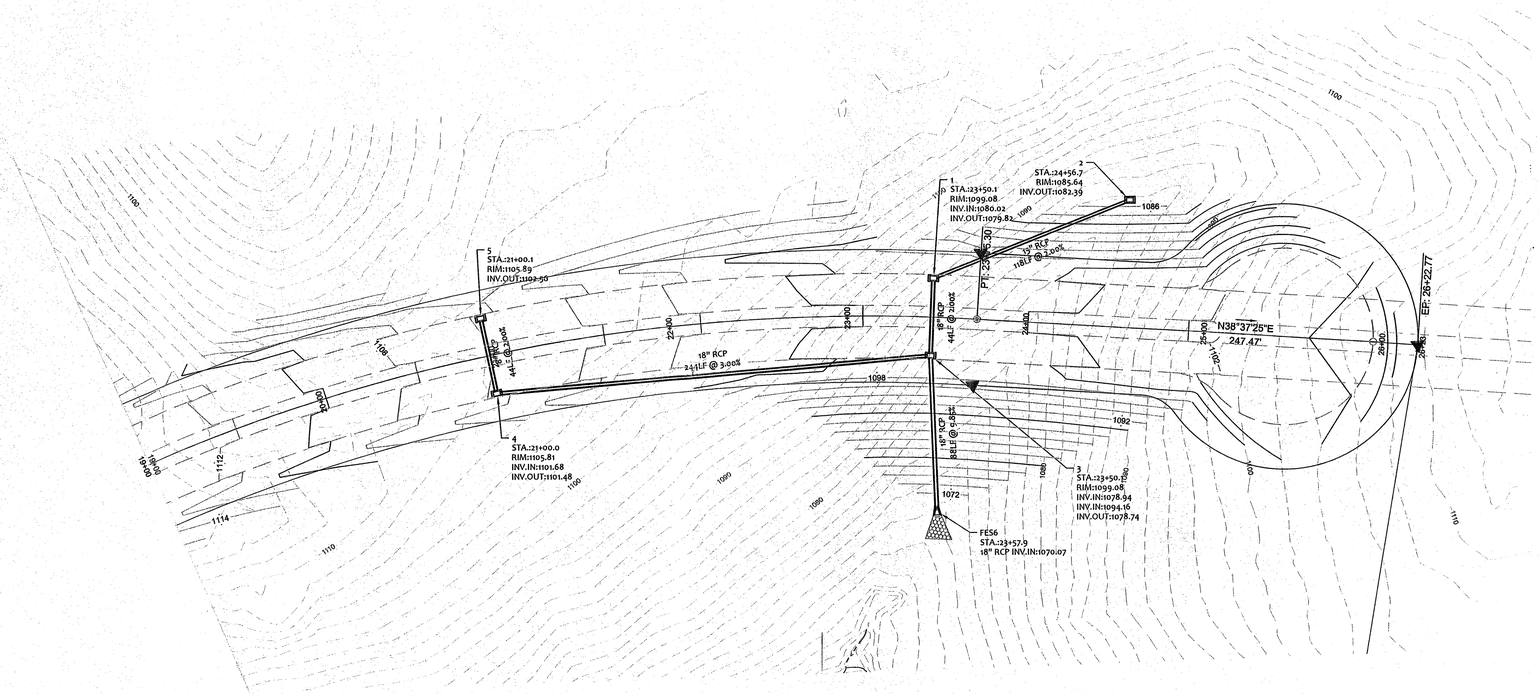
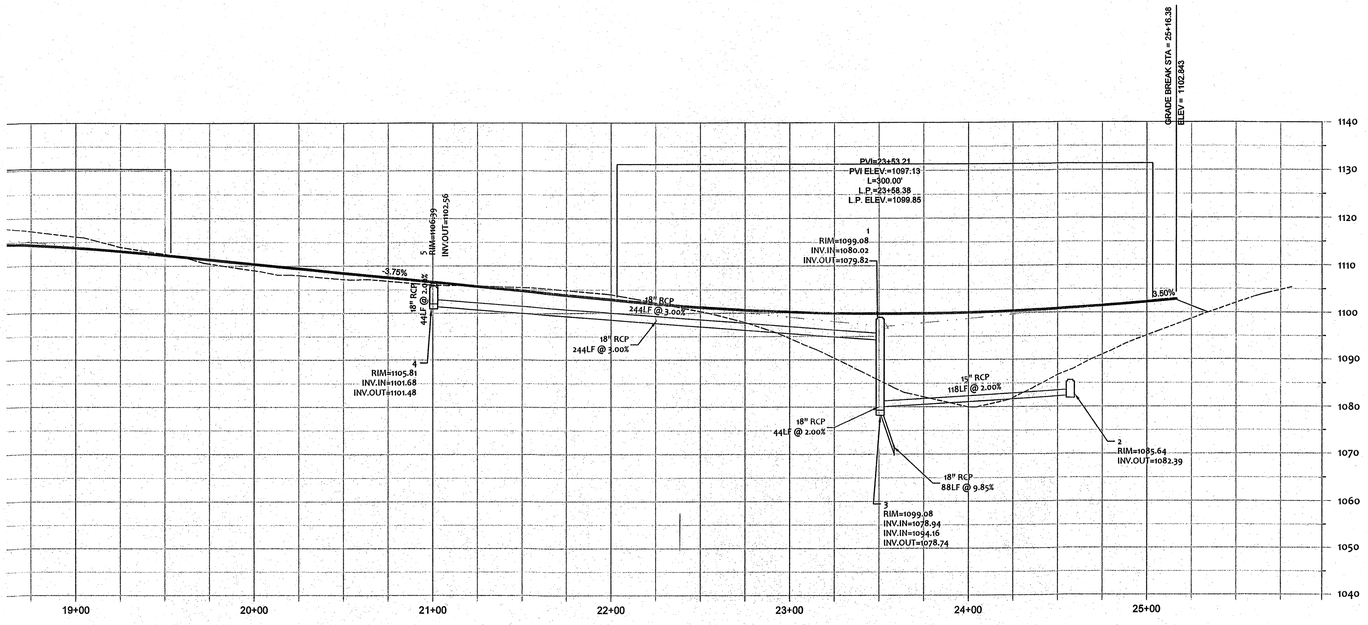


ROADWAY GRADING & DRAINAGE PLAN (STA.19+00 - 26+23)

SCALE: 1"=40'



ROADWAY PROFILE (STA. 19+00 - 26+23)

HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=15'

0 40 80 120
SCALE: 1" = 40'

REVISIONS

	PRE-BID SET ISSUE DATE	POST BID SET ISSUE DATE
1	TOWN COMMENTS	2/24/2011
2	TOWN COMMENTS	8/18/2011
3	NCDOT COMMENTS	12/12/2011
4	NCDOT COMMENTS	8/14/2012

NORTH CAROLINA PROFESSIONAL SEAL 034880 ENGINEER RONALD L. GEORGE
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PLAN & PROFILE (STA. 19-00 - 26+23)
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PROJECT #	SCALE
8002	AS NOTED
DATE	DRAWN BY
3/16/2009	MDS/RJG

SHEET
C-9

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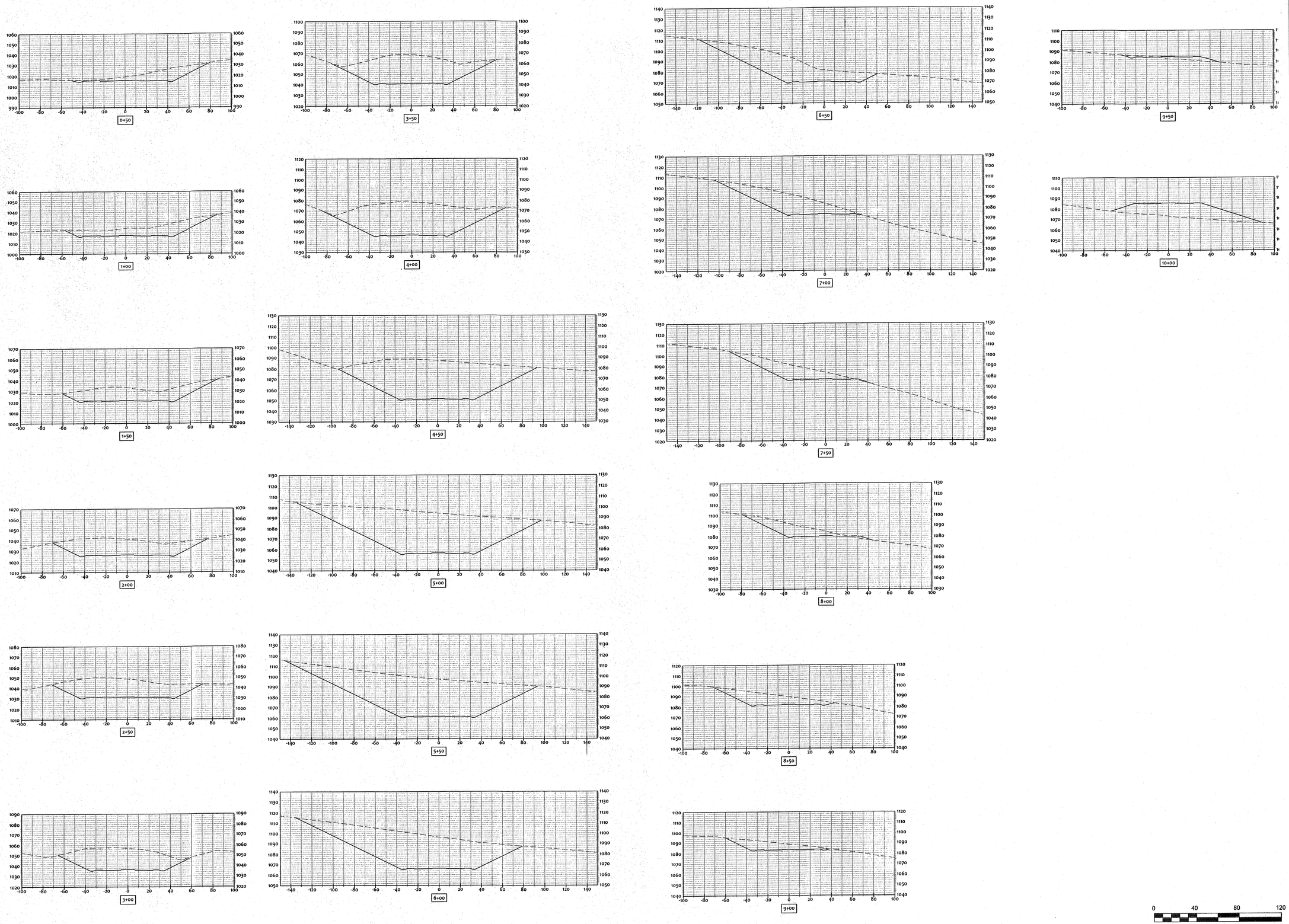

REVISIONS

	PRE-BID SET ISSUE DATE	POST BID SET ISSUE DATE
1	TOWN COMMENTS	2/24/2011
2	TOWN COMMENTS	8/18/2011
3	NCDOT COMMENTS	12/12/2011
4	NCDOT COMMENTS	8/14/2012

NORTH CAROLINA PROFESSIONAL SEAL 034580 ENGINEER ROMAN J. GEORGE

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CROSS SECTIONS - STA. 0+00 TO 10+00

WILKES INDUSTRIAL PARK
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NORTH WILKESBORO, NC 28659

PROJECT #	SCALE
8002	1" = 40'
DATE	DRAWN BY
3/16/2009	RJG/MDS

SHEET

C-11

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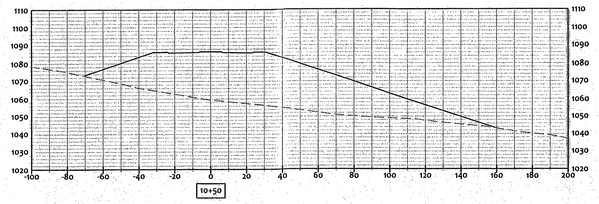

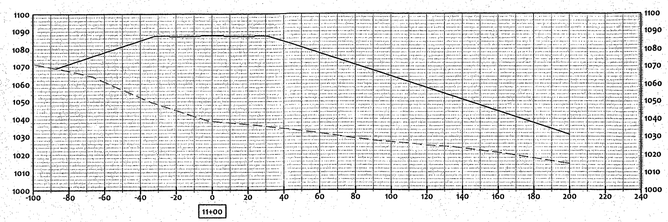

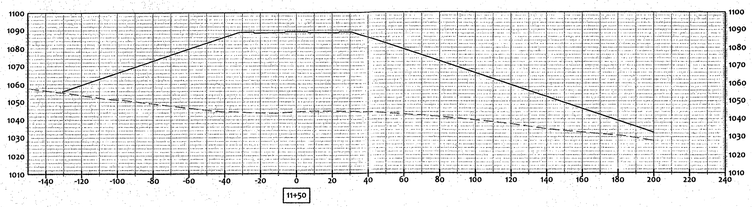

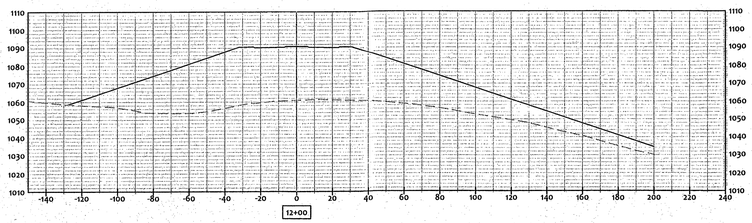

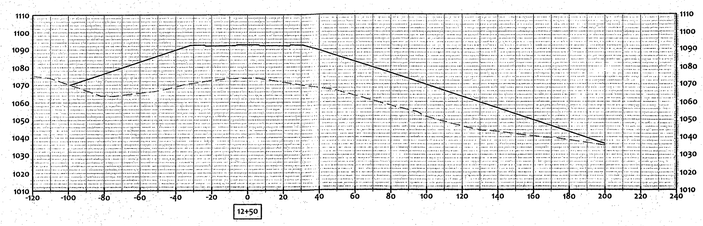

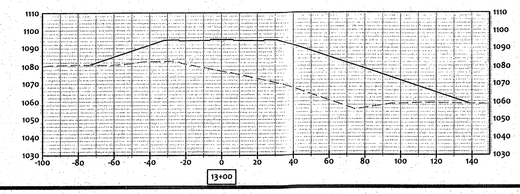

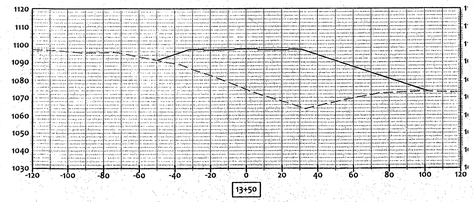

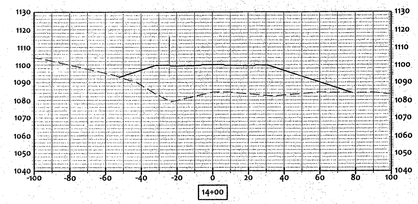

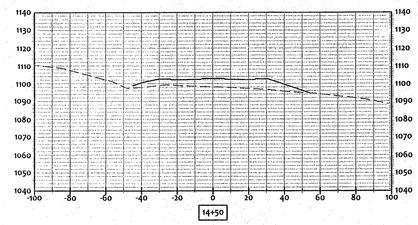

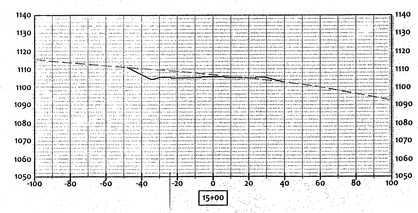

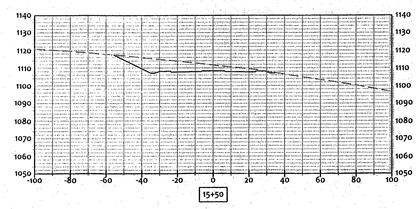

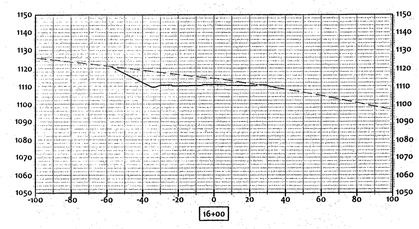

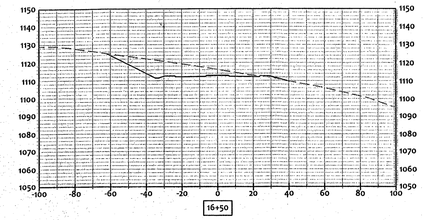

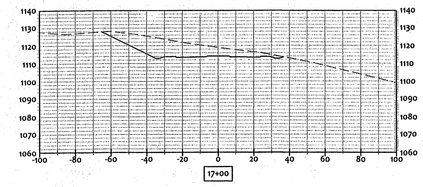

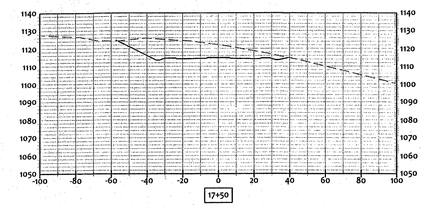

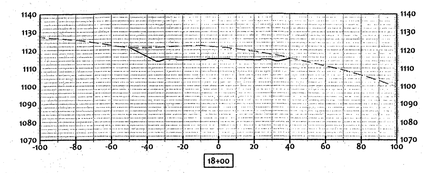

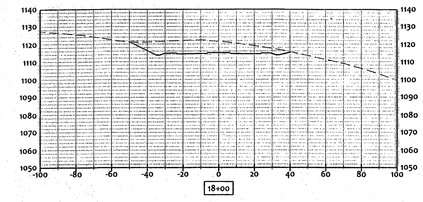

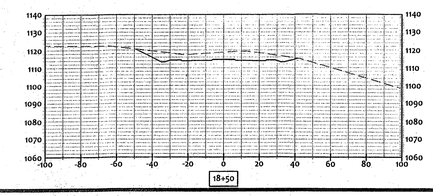

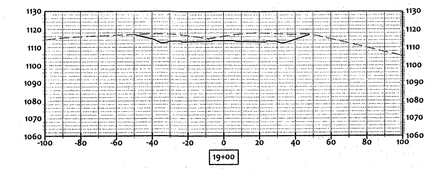

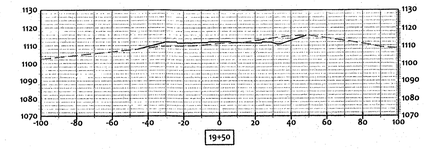

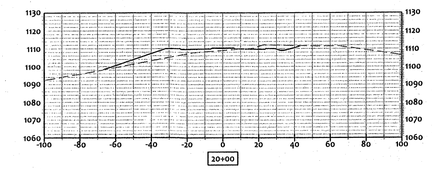

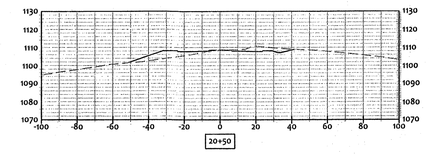

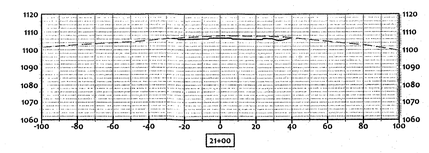

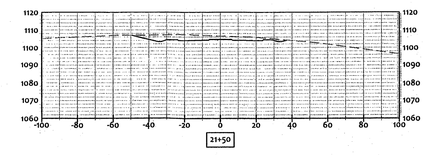

0 40 80 120

SCALE: 1" = 40'

REVISIONS

	PRE-BID SET ISSUE DATE	POST BID SET ISSUE DATE
1	TOWN COMMENTS	2/24/2011
2	TOWN COMMENTS	8/18/2011
3	NCDOT COMMENTS	12/12/2011
4	NCDOT COMMENTS	8/14/2012

NORTH CAROLINA PROFESSIONAL SEAL 034880 ENGINEER RONALD J. GEORGE

DEC 12 2011

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336-667-7129
336-838-1779 FAX

CROSS SECTIONS - STA. 10+50 TO 21+50

WILKES INDUSTRIAL PARK
RIVER ROAD (SR 2333)
NORTH WILKESBORO, NC 28659

PROJECT #	SCALE
8002	1" = 40'
DATE	DRAWN BY
3/16/2009	RJG/MDS

SHEET

C-12

Z:\PROJECTS\2008\8002 North Wilkesboro Industrial Park\CAD\Engineering\2011 Design Drawings\PLOT FILES\8002 PL-GR ST EC-2011-12-12.dwg, 12/12/2011 4:51:46 PM, 1:1

0 40 80 120

SCALE: 1" = 40'

REVISIONS

PRE-BID SET ISSUE DATE	POST BID SET ISSUE DATE
1 TOWN COMMENTS 2/24/2011	
2 TOWN COMMENTS 8/18/2011	
3 NCDOT COMMENTS 12/12/2011	
4 NCDOT COMMENTS 8/14/2012	

NORTH CAROLINA PROFESSIONAL SEAL 034890 ENGINEER JAMES G. STEWART

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CROSS SECTIONS - STA. 22+00 TO 25+00

WILKES INDUSTRIAL PARK
RIVER ROAD (SR 2333)
NORTH WILKESBORO, NC 28659

PROJECT #	SCALE
8002	1" = 40'
DATE	DRAWN BY
3/16/2009	RJG/MDS

SHEET

C-13

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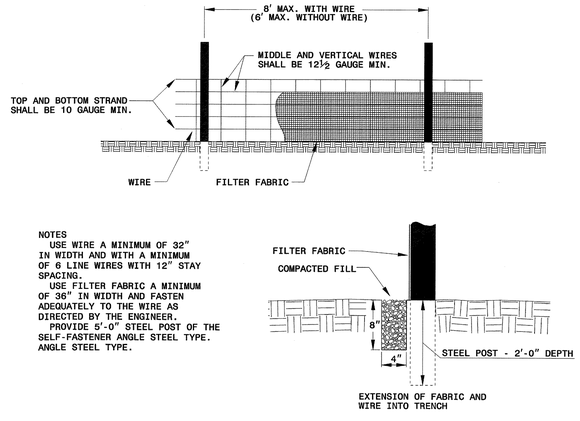
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 7-06

ENGLISH STANDARD DRAWING FOR
TEMPORARY SILT FENCE

SHEET 1 OF 1
1605.01



NOTES
USE WIRE A MINIMUM OF 32" IN WIDTH AND WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
USE FILTER FABRIC A MINIMUM OF 36" IN WIDTH AND FASTEN ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.
PROVIDE 5'-0" STEEL POST OF THE SELF-FASTENER ANGLE STEEL TYPE. ANGLE STEEL TYPE.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 7-06

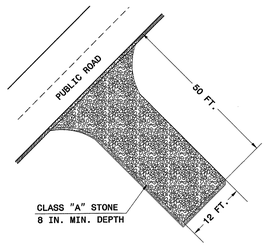
ENGLISH STANDARD DRAWING FOR
TEMPORARY SILT FENCE

SHEET 1 OF 1
1605.01

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 7-06

ENGLISH STANDARD DRAWING FOR
GRAVEL CONSTRUCTION ENTRANCE

SHEET 1 OF 1
1607.01



NOTES:
1. PROVIDE TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS.
2. LOCATE ENTRANCE(S) TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY.
4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE CLEANED UP IMMEDIATELY.
5. LOCATE GRAVEL CONSTRUCTION ENTRANCE AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. PROVIDE FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE.
6. NUMBER AND LOCATION OF CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE ENGINEER.
7. USE CLASS 'A' STONE OR OTHER COARSE AGGREGATE APPROVED BY THE ENGINEER.

NOTE: PLACE FILTER FABRIC BENEATH STONE

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 7-06

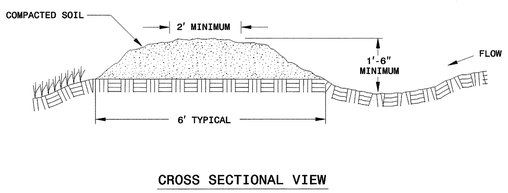
ENGLISH STANDARD DRAWING FOR
GRAVEL CONSTRUCTION ENTRANCE

SHEET 1 OF 1
1607.01

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 7-06

ENGLISH STANDARD DRAWING FOR
TEMPORARY DIVERSION

SHEET 1 OF 1
1630.05



CROSS SECTIONAL VIEW

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 7-06

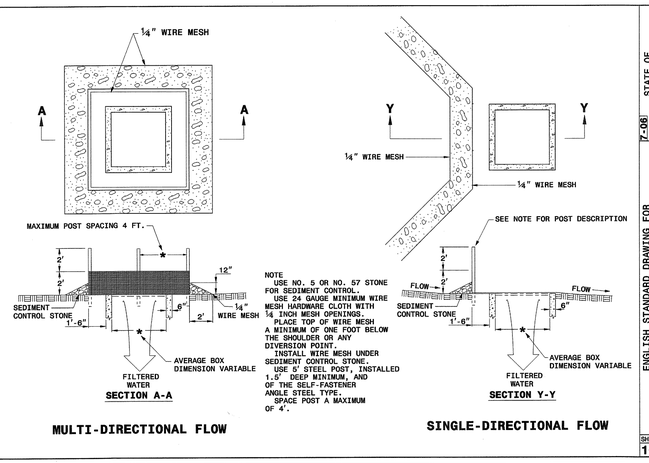
ENGLISH STANDARD DRAWING FOR
TEMPORARY DIVERSION

SHEET 1 OF 1
1630.05

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 7-06

ENGLISH STANDARD DRAWING FOR
ROCK INLET SEDIMENT TRAP TYPE 'C'

SHEET 1 OF 1
1632.03



NOTE
USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL.
USE 24 GAUGE MINIMUM WIRE MESH HARDWARE CLOTH WITH ¼ INCH MESH OPENINGS.
PLACE TOP OF WIRE MESH A MINIMUM OF ONE FOOT BELOW THE SHOULDER OR ANY DIVERSION POINT.
INSTALL WIRE MESH UNDER SEDIMENT CONTROL STONE.
USE 6' STEEL POST, INSTALLED 1.5' DEEP MINIMUM, AND OF THE SELF-FASTENER ANGLE STEEL TYPE.
SPACE POST A MAXIMUM OF 4'.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 7-06

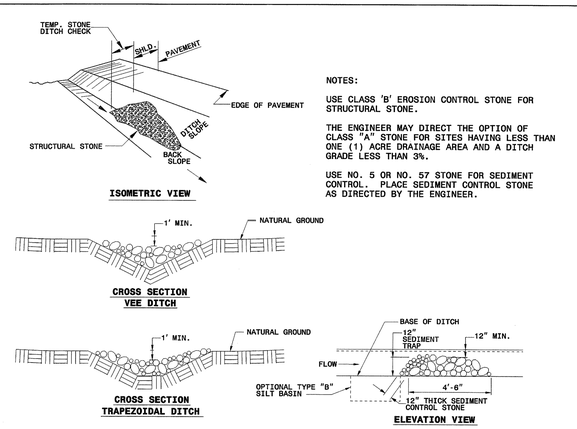
ENGLISH STANDARD DRAWING FOR
ROCK INLET SEDIMENT TRAP TYPE 'C'

SHEET 1 OF 1
1632.03

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 7-06

ENGLISH STANDARD DRAWING FOR
TEMPORARY ROCK SILT CHECK TYPE 'B'

SHEET 1 OF 1
1633.02



NOTES:

USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.

USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL. PLACE SEDIMENT CONTROL STONE AS DIRECTED BY THE ENGINEER.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 7-06

ENGLISH STANDARD DRAWING FOR
TEMPORARY ROCK SILT CHECK TYPE 'B'

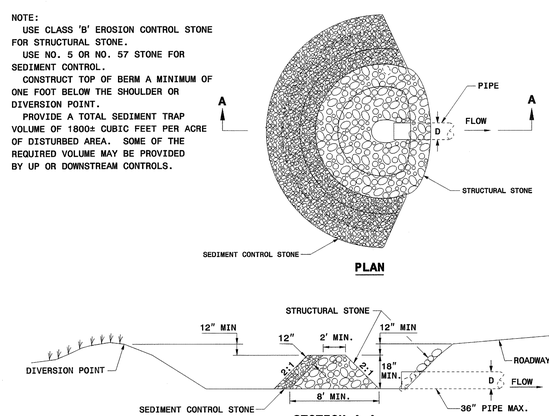
SHEET 1 OF 1
1633.02

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 7-06

ENGLISH STANDARD DRAWING FOR
ROCK PIPE INLET SEDIMENT TRAP TYPE 'A'

SHEET 1 OF 1
1635.01

NOTE:
USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.
USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL.
CONSTRUCT TOP OF BERM A MINIMUM OF ONE FOOT BELOW THE SHOULDER OR DIVERSION POINT.
PROVIDE A TOTAL SEDIMENT TRAP VOLUME OF 1800± CUBIC FEET PER ACRE OF DISTURBED AREA. SOME OF THE REQUIRED VOLUME MAY BE PROVIDED BY UP OR DOWNSTREAM CONTROLS.



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 7-06

ENGLISH STANDARD DRAWING FOR
ROCK PIPE INLET SEDIMENT TRAP TYPE 'A'

SHEET 1 OF 1
1635.01

REVISIONS

	PRE-BID SET ISSUE DATE	POST BID SET ISSUE DATE
1	TOWN COMMENTS 2/24/2011	
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3	NCDOT COMMENTS 12/12/2011	
4	NCDOT COMMENTS 8/14/2012	

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 23820 C. NEIL SHEFFIELD

AUG 1 4 2012

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NORTH WILKESBORO, NC 28659
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EROSION CONTROL DETAILS

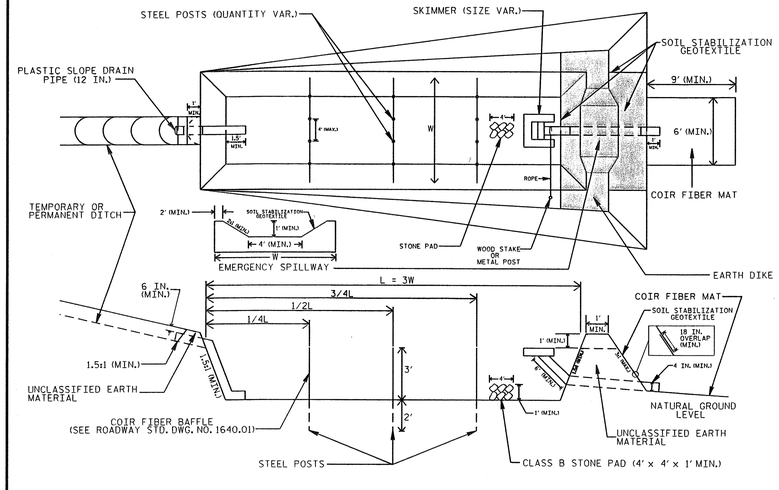
WILKES INDUSTRIAL PARK
RIVER ROAD (SR 2333)
NORTH WILKESBORO, NC 28659

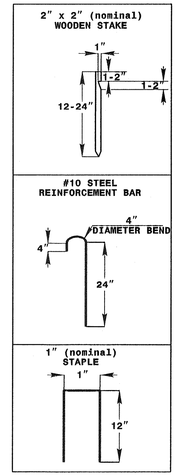
PROJECT #	SCALE
8002	1"=40'
DATE	DRAWN BY
3/16/2009	RJG/MDS

SHEET
C-14

PROJECT REFERENCE NO.	SHEET NO.
X-XXXX	EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SKIMMER BASIN WITH BAFFLES DETAIL





COIR FIBER MAT ANCHOR OPTIONS

NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE EMERGENCY SPILLWAY LENGTH (FT.) USING Q/0.8, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE AS DIRECTED.
6. SOIL STABILIZATION GEOTEXTILE FOR EMERGENCY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

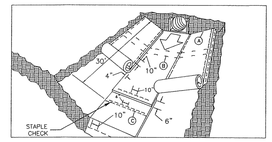
PROJECT REFERENCE NO.	SHEET NO.
X-XXXX	EC-3B
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

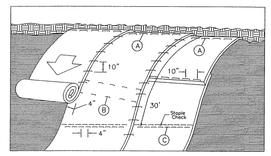
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.
1-12

ENGLISH STANDARD DRAWING FOR
MATTING INSTALLATION

SHEET 1 OF 1
1631.01



MATTING IN DITCHES



MATTING ON SLOPES

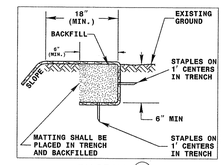
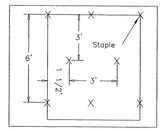


DIAGRAM (A)



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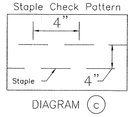

DIAGRAM (C)

NOTES:

THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 8 INCHES IN LENGTH.

NOT TO SCALE

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.
1-12

ENGLISH STANDARD DRAWING FOR
MATTING INSTALLATION

SHEET 1 OF 1
1631.01

REVISIONS

PRE-BID SET ISSUE DATE / POST BID SET ISSUE DATE

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4	NCDOT COMMENTS 8/14/2012

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036756 CYNTHIA J. NEIL
AUG 14 2012

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3/16/2009	RJG/MDS

SHEET

C-15