

STAGE 1 CONSTRUCTION SEQUENCE:

1. THE INTENT OF THE CONSTRUCTION SEQUENCE IS TO PROVIDE THE CONTRACTOR WITH A GENERAL GUIDE FOR CONSTRUCTION PURPOSES. THIS SEQUENCE IS NOT INTENDED TO OUTLINE ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.
2. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CHATHAM COUNTY SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCE.
3. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER RAINFALL EVENTS. NEEDED REPAIRS SHALL BE MADE IMMEDIATELY.
4. IF IT IS DETERMINED DURING CONSTRUCTION THAT SIGNIFICANT SEDIMENT IS LEAVING THE SITE, DESPITE PROPER IMPLEMENTATION AND MAINTENANCE, THE CONTRACTOR IS OBLIGATED TO TAKE ADDITIONAL CORRECTIVE ACTION. CONTACT OWNER'S REPRESENTATIVE AND ENGINEER WITH ANY ADDITIONAL MEASURES NEEDED.
5. CONTRACTOR SHALL ESTABLISH GROUND COVER ON DISTURBED AREAS WITHIN TWENTY-ONE (21) CALENDAR DAYS AFTER COMPLETION OF ANY AREA OF GRADING.
6. CONTRACTOR SHALL ARRANGE PRE-CONSTRUCTION MEETING WITH THE OWNER'S REPRESENTATIVE, ENGINEER AND CHATHAM COUNTY.
7. OBTAIN LETTER OF PLAN APPROVAL FOR SEDIMENTATION AND EROSION CONTROL FROM CHATHAM COUNTY SOIL EROSION & SEDIMENTATION CONTROL.
8. CONTRACTOR TO POST EROSION CONTROL PERMIT PROMINENTLY ON SITE AT ALL TIMES.
9. CONTRACTOR TO VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES TO AVOID CONFLICT DURING INSTALLATION OF EROSION CONTROL MEASURES AND STORM DRAINAGE. CONTRACTOR IS TO CALL 1-800-632-4949 FOR "NC ONE CALL" TO HAVE UTILITIES LOCATED.
10. CONTRACTOR TO HAVE A PROFESSIONAL LAND SURVEYOR FLAG PROPERTY LINES, EASEMENTS, LANDSCAPE BUFFERS, STREAM BUFFERS, TREE PROTECTION AREAS AND LIMITS OF DISTURBANCE.
11. BRIAR CHAPEL-PHASE 5 NORTH HAS A CURRENT LAND DISTURBING PERMIT #2007-047 BASED ON PLANS PREPARED BY JOHN R. MCADAMS COMPANY. TEMPORARY MEASURES FOR THE APPROVED STAGE 1 EROSION CONTROL PLAN HAVE BEEN INSTALLED AT THE SITE. THESE MEASURES INCLUDE TREE PROTECTION FENCING, SILT FENCE, DIVERSION DITCHES, SKIMMER SEDIMENT BASINS AND RISER BARREL BASINS. REPAIR OR REPLACE TEMPORARY MEASURES AS NEEDED TO ENSURE DEVICES ARE IN GOOD CONDITION AND FULLY FUNCTIONAL.
12. INSTALL TEMPORARY CONSTRUCTION ENTRANCE.
13. REMOVE EXISTING TREE PROTECTION FENCE AND SILT FENCE. INSTALL NEW TREE PROTECTION FENCING AND SILT FENCE AS SHOWN AND DETAILED ON PLAN. CLEAR ONLY AS NECESSARY TO INSTALL FENCING.
14. REPAIR OR INSTALL INLET PROTECTION ON EXISTING STRUCTURES AS SHOWN ON PLAN.
15. REPAIR TEMPORARY SKIMMER SEDIMENT BASINS AND TEMPORARY RISER BARREL SEDIMENT BASINS. VERIFY BASINS MEET THE REQUIRED DIMENSIONS, ELEVATIONS AND DETAILS. CLEAR ONLY AS NECESSARY TO REPAIR OR TO MEET REQUIRED DIMENSIONS FOR THE SEDIMENT BASINS. INSTALL NEW BAFFLES PER PLAN. SEED AND MULCH SIDESLOPES OF SEDIMENT BASINS UPON COMPLETION. INSTALL BIODEGRADABLE MATTING ON SIDESLOPES OF BASINS IF NECESSARY TO ESTABLISH COVER.
16. REPAIR OR CONSTRUCT TEMPORARY AND PERMANENT DIVERSION DITCHES AND TIE DITCHES TO TEMPORARY SEDIMENT BASINS. DAMS IN DITCHES AS SHOWN AND DETAILED ON PLANS. CLEAR ONLY AS NECESSARY TO INSTALL THESE EROSION CONTROL MEASURES. SEED, MULCH AND INSTALL TEMPORARY STRAW WITH NET LINER AT DIVERSION DITCHES UPON COMPLETION OF INSTALLATION.
17. CONTACT CHATHAM COUNTY SOIL EROSION & SEDIMENTATION AT 919-545-8339 AND ENGINEER UPON COMPLETION OF INITIAL EROSION CONTROL MEASURES.
18. ONCE STAGE 1 HAS BEEN COMPLETED AND APPROVED BY CHATHAM COUNTY AND THE ENGINEER, THE CONTRACTOR MAY MOVE INTO STAGE 2 OF THE EROSION CONTROL SEQUENCE.
19. **AN INSPECTION AND APPROVAL BY CHATHAM COUNTY SOIL EROSION & SEDIMENTATION IS REQUIRED PRIOR TO REMOVAL OF ANY EROSION CONTROL MEASURE. PERMANENT VEGETATION IS REQUIRED TO BE FULLY ESTABLISHED AS A PRECONDITION TO REMOVAL OF ANY EROSION CONTROL MEASURE.

GENERAL NOTES:

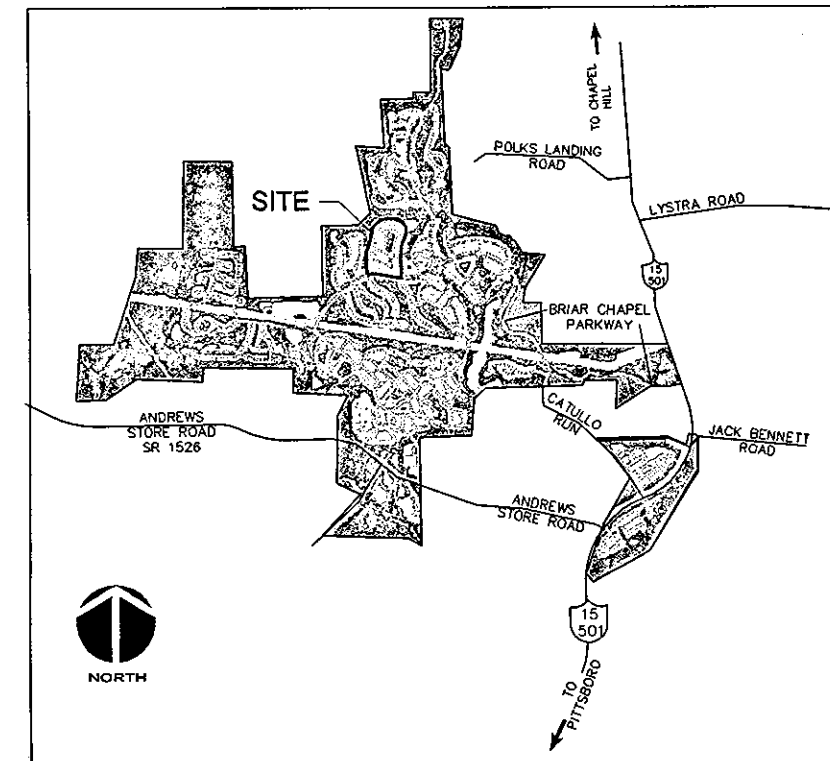
1. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER IF ANY DISCREPANCIES EXIST PRIOR TO CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE PAID TO CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
2. WETLANDS EXIST ON THE SITE. OWNER IS RESPONSIBLE FOR WETLANDS JURISDICTION AND DISTURBANCE PRIOR TO GRADING ACTIVITY.
3. OVERHEAD ELECTRIC LINES MAY EXIST ON THE SITE. CONTRACTOR SHALL CONTACT DUKE POWER AT (336) 634-4633 PRIOR TO COMMENCING ANY ACTIVITY WITHIN 200'-FT OF DUKE POWER RIGHT OF WAY.
4. CONTRACTOR SHALL CLEAN-OUT ALL RISER SEDIMENT BASINS WHEN SEDIMENT VOLUME REACHE THE CLEANOUT MARK ELEVATION AS SPECIFIED OR AS DIRECTED BY CHATHAM COUNTY INSPECTOR OR ENGINEER.
5. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING AS NECESSARY THROUGHOUT CONSTRUCTION.
6. ALL TEMPORARY DIVERSION DITCHES WHICH CROSS PROPOSED ROAD ALIGNMENTS SHALL BE GRAVEL TYPE FOR VEHICLE CROSSING.
7. EXISTING INFRASTRUCTURE AS SHOWN MAY BE UNDER CONSTRUCTION AND SHALL BE FIELD VERIFIED BY CONTRACTOR. REFER TO THE FOLLOWING JOHN R. MCADAMS BRIAR CHAPEL PLANS AND CONSTRUCTION BULLETINS FOR ADDITIONAL INFORMATION:
 - RECLAMATION FACILITY EROSION CONTROL PLAN, SEALED JULY 29, 2005
 - PHASE 1 CONSTRUCTION PLANS, SEALED OCT 21, 2005.
 - WEST EXTENSION GRADING PLAN (INTERIM), SEALED MAR 1, 2007.
 - PHASE 3 CONSTRUCTION PLANS, SEALED DEC 4, 2006.
 - PHASE 4 CONSTRUCTION PLANS, SEALED JAN 15, 2007.
 - WATER QUALITY PONDS 5 AND 6 CONSTRUCTION PLANS, SEALED AUG 24, 2006.
 - PUMP STATION CONSTRUCTION PLANS, DATED APR 3, 2006.
 - PHASE 4 - POD D CONSTRUCTION PLANS, SEALED SEP 17, 2007.
 - PHASE 3 & 4 EROSION CONTROL PLANS, SEALED JULY 26, 2007.
8. TOTAL DISTURBED AREA = 41.86 ACRES

LIMITS OF DISTURBANCE NOTES:

1. LIMITS OF DISTURBANCE LINES ARE CLEARING LIMIT LINES WHICH WILL BE FLAGGED FOR A MINIMUM OF ONE PER 50'-FT OR CLOSER DEPENDING ON VISIBILITY.
2. SILT FENCE AND TREE PROTECTION FENCE LINES ALSO DELINEATE THE LIMITS OF DISTURBANCE. ALL SILT FENCING OR TREE PROTECTION FENCING SHALL BE INSTALLED INSIDE LIMITS OF DISTURBANCE.

TREE SAVE NOTE:

1. CONTRACTOR SHALL SAVE EXISTING SPECIMEN TREES ALONG BRIAR CHAPEL PARKWAY MEDIAN WHERE DEEMED FEASIBLE AS DIRECTED BY OWNER.

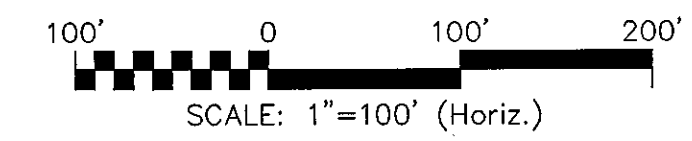


VICINITY MAP
NOT TO SCALE

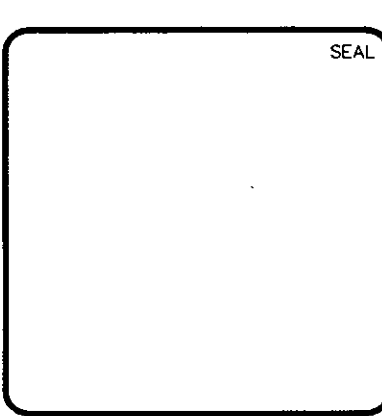
LEGEND:

	EXISTING WETLANDS
	EXISTING STREAM CHANNEL
	ARC PIPE INLET PROTECTION
	RIP RAP OUTLET PROTECTION
	TEMPORARY CONSTRUCTION ENTRANCE
	EXISTING SILT FENCE
	LIMITS OF DISTURBANCE
	DIVERSION DITCH
	TREE PROTECTION FENCE
	COMBINATION SILT FENCE/TREE PROTECTION FENCE
	SILT FENCE OUTLET
	EXISTING CONTOUR
	TEMPORARY DIVERSION DITCH
	CHECK DAM
	BAFFLE

CALL N.C. ONE
CALL CENTER
BEFORE YOU DIG
STOP
1-800-632-4949
AVOID UTILITY
DAMAGE



REV. NO.	DESCRIPTIONS	DATE
2	PRELIMINARY PLAT SUBMITTAL TO CHATHAM COUNTY PLANNING	09.10.2010
1	ISSUED TO CLIENT FOR REVIEW	08.06.2010



MCKIM & CREED
1730 Varsity Drive, Suite 500
Raleigh, North Carolina 27606
Phone: (919)233-8091, Fax: (919)233-8031
C-0342
www.mckimcreed.com

BRIAR CHAPEL™
by
Newland COMMUNITIES

**BRIAR CHAPEL
PHASE 5 NORTH
CHATHAM COUNTY, NORTH CAROLINA**

STAGE 1 EROSION CONTROL PLAN

DATE: AUGUST 6, 2010	SCALE	ENC FILE NUMBER
MCE PROJ. # 02735-0069	HORIZONTAL:	CE101
DRAWN: CHS	1" = 100'	DRAWING NUMBER
DESIGNED: CHS	VERTICAL:	C-18
CHECKED: GML	NA	
PROJ. MGR.: GML		
STATUS: ISSUED FOR PERMIT	REVISION	2

STAGE 2 CONSTRUCTION SEQUENCE:

SECTION 1

- ONCE STAGE 1 EROSION CONTROL HAS BEEN COMPLETED AND APPROVED BY CHATHAM COUNTY AND THE ENGINEER, CONTRACTOR IS TO START STAGE 2-SECTION 1 OF THE EROSION CONTROL PLAN. SECTION 1 OF THE EROSION CONTROL PLAN IS FOR CONSTRUCTION OF BRIAR CHAPEL PARKWAY, DEVELOPMENT OF THE SOUTHERN HALF OF PHASE 5 NORTH (TOBACCO FARM WAY AND AREAS SOUTH), WATERLINES, STORM DRAINAGE TO CONNECT TO TEMPORARY RISER BASINS/PERMANENT STORMWATER MANAGEMENT FACILITIES AS WELL AS GRAVITY SANITARY SEWER TO EXISTING PUMP STATION. STAGE 2-SECTION 2 INCLUDES THE STREETS, RESIDENTIAL LOTS, WATERLINES, ADDITIONAL STORM DRAINAGE AND SANITARY SEWER FOR THE AREA NORTH OF TOBACCO FARM WAY AND CONVERSION OF THE RISER BARREL BASINS TO PERMANENT STORMWATER PONDS.
- PERFORM ADDITIONAL CLEARING AND GRUBBING AS NEEDED AND TOPSOIL REMOVAL AS REQUIRED.
- STOCKPILE TOPSOIL AT LOCATION DIRECTED BY OWNER.
- BEGIN SECTION 1 GRADING OPERATIONS.
- MAINTAIN AND PROTECT ALL EXISTING UTILITIES AT ALL TIMES.
- CONTRACTOR IS TO MAINTAIN ALL THE STAGE 1 DIVERSION DITCHES, BASINS, SILT FENCE AND OTHER EROSION CONTROL MEASURES UNTIL THEY ARE APPROVED TO BE REMOVED.
- INSTALL STORM SEWER PIPE AND SANITARY SEWER PIPE AS SHOWN ON PLANS WITH EROSION CONTROL MEASURES TO ELIMINATE SILT FROM ENTERING STORM PIPE SYSTEM.
- IF STANDING WATER OCCURS AND IS NOT ABLE TO BE DRAINED TO ESTABLISHED EROSION CONTROL MEASURES, CONTRACTOR SHALL PUMP WATER TO DIRECT TO NEAREST EROSION CONTROL MEASURE.
- CONTINUE WITH GRADING OPERATIONS FOR STREETS AND RESIDENTIAL LOTS IN SECTION 1.
- INSTALL REMAINING STORM SEWER PIPE AND UNDERGROUND UTILITIES.
- ONCE STORM DRAIN SYSTEM IS OPERATIONAL TO CONVEY RUNOFF TO TEMPORARY RISER BARREL BASINS AND CONTRIBUTING AREA HAS ESTABLISHED GROUNDCOVER, REMOVE TEMPORARY SKIMMER SEDIMENT BASIN ST-4 WITH APPROVAL FROM CHATHAM COUNTY. BRING AREA OF SEDIMENT BASIN ST-4 TO FINAL GRADES AND CONSTRUCT RETAINING WALL PER WALL DESIGN PLANS (BY OTHERS).
- COMPLETE CONSTRUCTION OF ROAD BEDS AND SHOULDERS. INSTALL ABC STONE IN ROAD BEDS AND CURB AND GUTTER.
- INSTALL INITIAL PAVING AS SHOWN ON PLANS.
- CARRY OUT FINAL GRADING. RESPREAD TOPSOIL IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- PERFORM SEEDING AND MULCHING AS REQUIRED IN ACCORDANCE WITH THE PLANS.
- ONCE GROUNDCOVER HAS BEEN ESTABLISHED WITHIN SECTION 1, AND OTHER CONSTRUCTION IS COMPLETE, CONTACT CHATHAM COUNTY SOIL EROSION AND SEDIMENTATION AND ENGINEER FOR SITE INSPECTION BEFORE REMOVING ANY TEMPORARY EROSION CONTROL MEASURES.
- REMOVE TEMPORARY CONSTRUCTION ENTRANCE AS NEEDED TO INSTALL FINAL PAVING.
- INSTALL FINAL PAVING AS SHOWN ON THE PLANS.
- AFTER SECTION 1 IS COMPLETELY STABILIZED, REMOVE ALL TEMPORARY MEASURES AND INSTALL PERMANENT VEGETATION AS REQUIRED AND ON ANY RESULTING BARE AREAS.

SECTION 2

- PERFORM ADDITIONAL CLEARING AND GRUBBING AS NEEDED AND TOPSOIL REMOVAL AS REQUIRED.
- STOCKPILE TOPSOIL AT LOCATION DIRECTED BY OWNER.
- BEGIN SECTION 2 GRADING OPERATIONS.
- MAINTAIN AND PROTECT ALL EXISTING UTILITIES AT ALL TIMES.
- CONTRACTOR IS TO MAINTAIN ALL THE STAGE 1 DIVERSION DITCHES, BASINS, SILT FENCE AND OTHER EROSION CONTROL MEASURES UNTIL THEY ARE APPROVED TO BE REMOVED.
- INSTALL STORM SEWER PIPE AND SANITARY SEWER PIPE AS SHOWN ON PLANS WITH EROSION CONTROL MEASURES TO ELIMINATE SILT FROM ENTERING STORM PIPE SYSTEM.
- CONTINUE WITH GRADING OPERATIONS FOR STREETS AND RESIDENTIAL LOTS IN SECTION 2.
- INSTALL REMAINING STORM SEWER PIPE AND UNDERGROUND UTILITIES AS SHOWN ON PLANS.
- ONCE STORM DRAIN SYSTEM IS OPERATIONAL TO CONVEY RUNOFF TO TEMPORARY RISER BARREL BASINS AND CONTRIBUTING AREA HAS ESTABLISHED GROUNDCOVER, REMOVE TEMPORARY SKIMMER SEDIMENT BASIN ST-3, 5 AND 6. BRING AREAS OF SEDIMENT BASINS TO FINAL GRADES.
- CONTINUE GRADING AT RISER BASIN 1 AND 2. CONSTRUCT RETAINING WALLS PER WALL DESIGN PLANS (BY OTHERS).
- COMPLETE CONSTRUCTION OF ROAD BEDS AND SHOULDERS. INSTALL ABC STONE IN ROAD BEDS AND CURB AND GUTTER.
- INSTALL INITIAL PAVING FOR SECTION 2 ROADS AND ALLEYS.
- CARRY OUT FINAL GRADING. RESPREAD TOPSOIL IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- PERFORM SEEDING AND MULCHING AS REQUIRED IN ACCORDANCE WITH THE PLANS.
- ONCE GROUNDCOVER HAS BEEN ESTABLISHED WITHIN SECTION 2, AND OTHER CONSTRUCTION IS COMPLETE, CONTACT CHATHAM COUNTY SOIL EROSION AND SEDIMENTATION AND ENGINEER FOR SITE INSPECTION BEFORE REMOVING ANY TEMPORARY EROSION CONTROL MEASURES.
- ONCE SECTION 2 IS APPROVED, MUCK OUT RISER BARREL BASINS. BEGIN GRADING OPERATIONS TO CONVERT TEMPORARY BASINS TO PERMANENT WET PONDS. BRING TO FINAL GRADES. REFER TO POND DETAIL SHEETS FOR FINAL POND DESIGN.
- REMOVE TEMPORARY CONSTRUCTION ENTRANCE AS NEEDED TO INSTALL FINAL PAVING.
- INSTALL FINAL PAVING AS SHOWN ON THE PLANS.
- AFTER SECTION 2 IS COMPLETELY STABILIZED, REMOVE ALL TEMPORARY MEASURES AND INSTALL PERMANENT VEGETATION AS REQUIRED AND ON ANY RESULTING BARE AREAS.

RETAINING WALL NOTES:

- RETAINING WALL DESIGN IS BY OTHERS. OWNER SHALL PROCURE A QUALIFIED RETAINING WALL DESIGNER FOR THE PROJECT. RETAINING WALL INFORMATION SHOWN ON THESE PLANS ARE FOR LOCATION AND GRADE INFORMATION ONLY. OWNER RESPONSIBLE FOR PROVIDING NECESSARY INFORMATION TO WALL DESIGNER AS REQUIRED FOR PROPER DESIGN OF RETAINING WALLS.
- TOP GRADE (TG) AND BOTTOM GRADE (BG) OF WALLS SPECIFIED ARE INTENDED TO BE THE FINISHED PAVEMENT OR EARTH GRADE. THE WALL DESIGNER SHALL ADJUST SHOP DRAWING WALL ELEVATIONS FOR THE TOP AND BOTTOM OF WALL TO MEET SPECIFIC PRODUCT DESIGN CRITERIA AND WALL GEOMETRY AS NECESSARY TO ACHIEVE DESIRED FINISHED GRADES. THE HORIZONTAL WALL LOCATION AS SHOWN IS THE FINISHED LOCATION OF THE BOTTOM OF WALL. THE WALL DESIGNER SHALL COORDINATE WITH THE ENGINEER TO VERIFY WHETHER CONFLICTS EXIST. THE WALL DESIGNER SHALL NOTIFY THE ENGINEER IN CASE OF ANY CONFLICTS, INCLUDING BUT NOT LIMITED TO EXISTING OR PROPOSED UTILITIES, WALL BATTER, GEOTIRD PLACEMENT, ETC., OR IF ANY ASPECT OF WALL PLACEMENT CAN NOT BE ACCOMPLISHED. ALL WORK RELATED TO THE RETAINING WALL CONSTRUCTION SHALL BE ACCOMPLISHED WITHIN THE BOUNDARIES OF THE PROJECT PROPERTY, WITHOUT IMPACTING BUFFERS.
- IT IS THE RESPONSIBILITY OF THE OWNER AND WALL DESIGNER TO ASSURE THAT THE REQUIRED SOIL BEARING, PRESSURE, SUBSURFACE DRAINAGE AND SURFACE DRAINAGE ARE ACHIEVED AS RELATED TO THE RETAINING WALL DESIGN. THIS SHOULD BE VERIFIED BY A GEOTECHNICAL ENGINEER. SPECIAL ATTENTION IS REQUIRED TO ENSURE BEARING CAPACITY HAS BEEN ACHIEVED AT LOCATIONS WHERE PIPE PENETRATIONS ARE TO OCCUR. IT SHALL BE THE RESPONSIBILITY OF THE CLIENT TO PROVIDE QUALITY CONTROL / QUALITY ASSURANCE TESTING ASSOCIATED WITH THE WALL CONSTRUCTION. THE GEOTECHNICAL ENGINEER OR WALL DESIGNER SHALL PROVIDE ANY CERTIFICATIONS AS MAY BE REQUIRED TO SHOW COMPLIANCE WITH ORIGINAL DESIGN DOCUMENTS AS RELATED TO THE WALL DESIGN AND CONSTRUCTION.

GENERAL NOTES:

- ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER IF ANY DISCREPANCIES EXIST PRIOR TO CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE PAID TO CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL AT 1-800-632-4949 AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR TO CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL".
- OVERHEAD ELECTRIC LINES MAY EXIST ON THE SITE. CONTRACTOR SHALL CONTACT DUKE POWER AT (336) 634-4633 PRIOR TO COMMENCING ANY ACTIVITY WITHIN 200-FT OF DUKE POWER RIGHT OF WAY.
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL ARRANGE AND ATTEND A PRECONSTRUCTION CONFERENCE WITH CHATHAM COUNTY, OWNER AND ENGINEER.
- EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON BEST AVAILABLE RECORD DRAWINGS.
- SOIL UNDER BUILDINGS, PAVED AREAS AND WITHIN SLOPES GREATER THAN 3:1 (H:V) SHALL BE APPROVED, PLACED AND COMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. THESE SOILS SHALL BE COMPACTED TO THE STANDARD PROCTOR MAXIMUM DRY DENSITY UNLESS OTHERWISE RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- ALL GRADED AREAS SHALL BE SLOPED SUCH THAT NO AREAS OF STANDING WATER OCCUR AND ALL AREAS POSITIVELY DRAIN TO DRAINAGE STRUCTURES, SWALES OR STORMWATER MANAGEMENT FACILITIES.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS AND SHALL REPLACE ALL MARKERS REMOVED IF DAMAGED DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING AS NECESSARY THROUGHOUT CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL PERMIT CONDITIONS, MONITORING AND REPORTING REQUIREMENTS.
- REFER TO SHEET D-1 FOR PROPOSED ROAD CROSS SECTION DETAILS AND PAVEMENT SCHEDULE.
- ALLEYS ARE LOCATED INSIDE 20' PRIVATE EASEMENTS. ALL OTHER STREETS WITHIN PHASE 5 NORTH ARE INSIDE 40' PUBLIC RIGHT-OF-WAYS. EACH BIFURCATED PORTION OF BRIAR CHAPEL PARKWAY IS WITHIN A 41' PUBLIC RIGHT-OF-WAY. UNBIFURCATED PORTION OF BRIAR CHAPEL PARKWAY IS WITHIN A 50' PUBLIC RIGHT-OF-WAY.
- GRADING AT END OF ALLEYS SHALL TIE INTO EXISTING SLOPES AT NO STEEPER THAN 2:1 (H:V) UNTIL FINAL LOT GRADING.
- STREAM AND WETLAND LOCATIONS ARE BASED ON DELINEATIONS PROVIDED BY SOIL AND ENVIRONMENTAL CONSULTANTS IN RALEIGH, NC - CONTACT SEAN CLARK AT 919-846-5900.
- A PORTION OF THIS PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA "AE" AS SHOWN ON FEMA FIRM MAP #3710976500J DATED FEBRUARY 2, 2007.
- EXISTING INFRASTRUCTURE AS SHOWN MAY BE UNDER CONSTRUCTION AND SHALL BE FIELD VERIFIED BY CONTRACTOR. REFER TO THE FOLLOWING JOHN R. MACDAMAS BRIAR CHAPEL PLANS AND CONSTRUCTION BULLETINS FOR ADDITIONAL INFORMATION:
 -RECLAMATION FACILITY EROSION CONTROL PLAN, SEALED JULY 29, 2005
 -PHASE 1 CONSTRUCTION PLANS, SEALED OCT 21, 2005
 -WEST EXTENSION GRADING PLAN (INTERIM), SEALED MAR 1, 2007
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 -PHASE 3 & 4 EROSION CONTROL PLANS, SEALED JULY 26, 2007

STORM DRAINAGE NOTES:

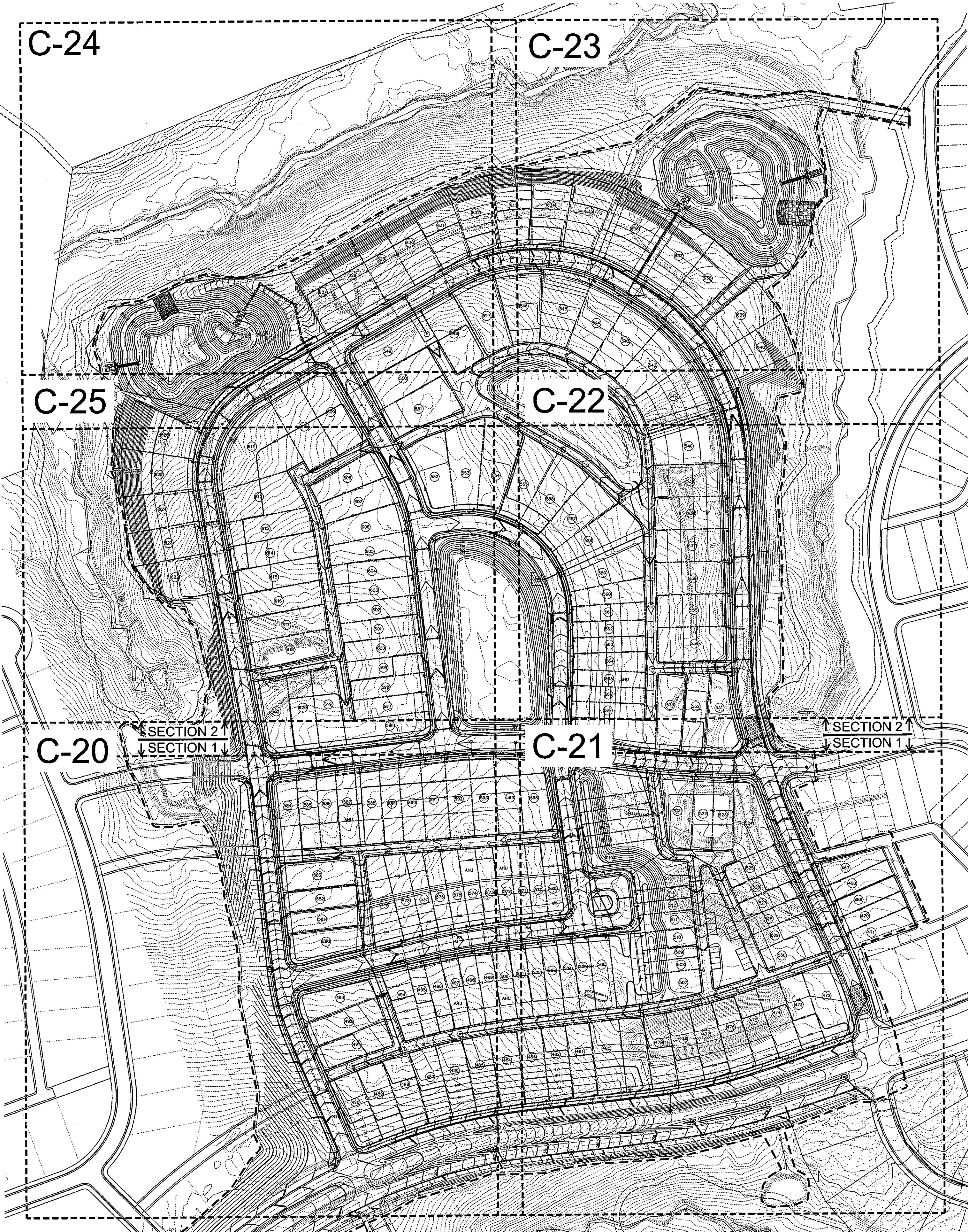
- STORM DRAINAGE PIPES SHALL BE:
 - RCP/CLASS III FOR STORM DRAINAGE INSIDE PUBLIC RIGHT-OF-WAY OR CONNECTING INTO STRUCTURE INSIDE PUBLIC RIGHT-OF-WAY IN ACCORDANCE WITH NCDOT STANDARDS.
 - A-2000 PVC FOR PRIVATE STORM LINES WITHIN PRIVATE ALLEYS. ALL STORM DRAINAGE CONSTRUCTION FOR A-2000 PVC SHALL BE IN ACCORDANCE WITH PIPE MANUFACTURER'S SPECIFICATIONS. PIPE JOINTS SHALL BE WATER-TIGHT PER ASTM D3212. PIPE AND FITTINGS SHALL BE INSTALLED PER AASHTO SECTION 30 AND AASHTO SECTION 12.
- ALL CONCRETE SHALL MEET A MINIMUM 3,000 PSI COMPRESSIVE STRENGTH.
- ALL PIPE IN STORM DRAIN STRUCTURES SHALL BE STRUCK EVEN WITH INSIDE WALL.
- THE INTERIOR SURFACES OF ALL STORM DRAINAGE STRUCTURES SHALL BE POINTED UP AND SMOOTHED TO AN ACCEPTABLE STANDARD USING MORTAR MIXED TO MANUFACTURER'S SPECIFICATIONS.
- ALL BACKFILL SHALL BE NON-PLASTIC IN NATURE, FREE FROM ROOTS, VEGETATION MATTER, WASTE CONSTRUCTION MATERIAL OR OTHER OBJECTIONABLE MATERIAL. UTILIZED MATERIAL SHALL BE CAPABLE OF BEING COMPACTED BY MECHANICAL MEANS AND SHALL HAVE NO TENDENCY TO FLOW OR BEHAVE IN A PLASTIC MANNER UNDER THE TAMPING BLOWS OR PROOF ROLL.

LIMITS OF DISTURBANCE NOTES:

- LIMITS OF DISTURBANCE LINES ARE CLEARING LIMIT LINES WHICH WILL BE FLAGGED FOR A MINIMUM OF ONE PER 50-FT OR CLOSER DEPENDING ON VISIBILITY.
- SILT FENCE AND TREE PROTECTION FENCE LINES ALSO DELINEATE THE LIMITS OF DISTURBANCE. ALL SILT FENCING OR TREE PROTECTION FENCING SHALL BE INSTALLED INSIDE LIMITS OF DISTURBANCE.

TREE SAVE NOTE:

- CONTRACTOR SHALL SAVE EXISTING SPECIMEN TREES ALONG BRIAR CHAPEL PARKWAY MEDIAN WHERE DEEMED FEASIBLE AS DIRECTED BY OWNER.



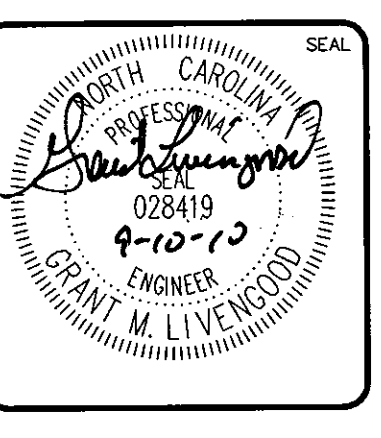
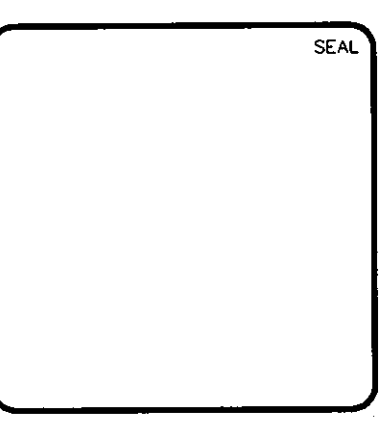
LEGEND:

- EXISTING WETLANDS
- EXISTING STREAM CHANNEL
- RIP RAP OUTLET PROTECTION
- TEMPORARY CONSTRUCTION ENTRANCE
- EXISTING SILT FENCE
- LIMITS OF DISTURBANCE
- DIVERSION DITCH
- TREE PROTECTION FENCE
- COMBINATION SILT FENCE/TREE PROTECTION FENCE
- SILT FENCE OUTLET
- EXISTING CONTOUR
- PROPOSED CONTOUR
- TEMPORARY DIVERSION DITCH
- CHECK DAM
- BAFFLE
- TEMPORARY PIPE
- PERMANENT STORM DRAINAGE PIPE



100' 0 100' 200'
 SCALE: 1"=100' (Horiz.)

REV.	DESCRIPTION	DATE
3	PRELIMINARY PLAT SUBMITTAL TO CHATHAM COUNTY PLANNING	09.10.2010
2	REVISED PER CHATHAM COUNTY SETBACK REQUIREMENT/CLIENT COMMENTS	08.17.2010
1	SUBMITTAL TO CLIENT FOR REVIEW	08.08.2010



MCKIM & CREED
 1730 Varsity Drive, Suite 500
 Raleigh, North Carolina 27606
 Phone: (919)233-8091, Fax: (919)233-8031
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 www.mckimcreed.com

BRIAR CHAPEL™
 by
Newland COMMUNITIES

**BRIAR CHAPEL
 PHASE 5 NORTH
 CHATHAM COUNTY, NORTH CAROLINA**

**OVERALL GRADING, DRAINAGE &
 STAGE 2 EROSION CONTROL PLAN**

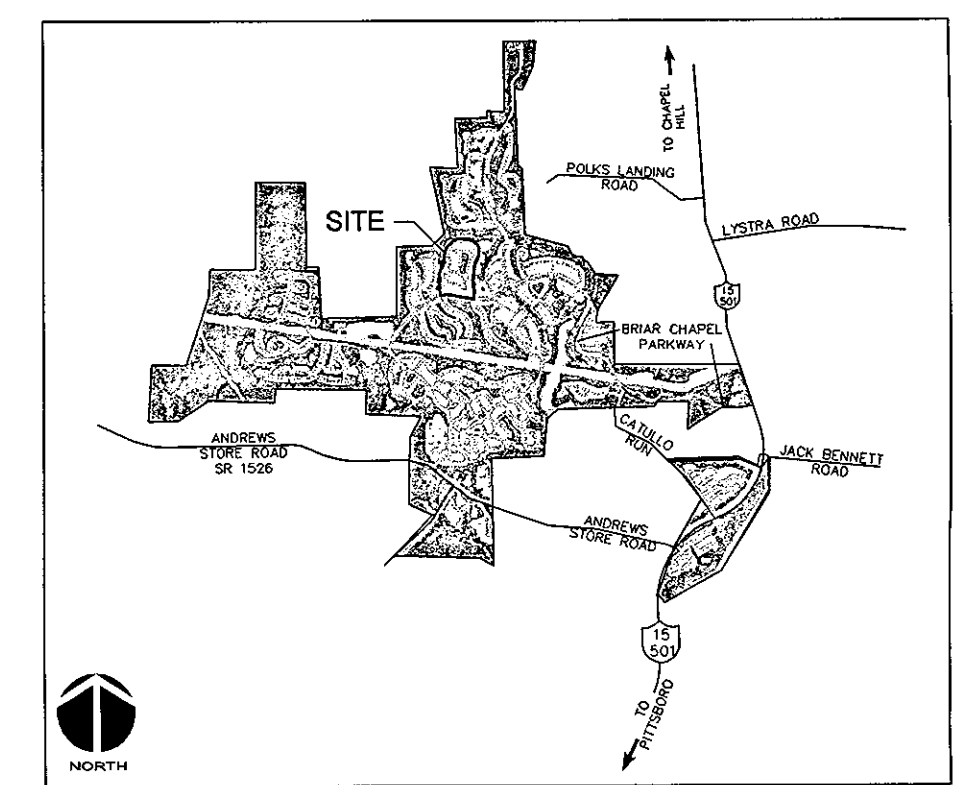
DATE: AUGUST 6, 2010	SCALE: HORIZONTAL: 1" = 100'	MAC FILE NUMBER: CG101
MCE PROJ. # 02735-0069	VERTICAL: NA	DRAWING NUMBER: C-19
DRAWN: CHS		
DESIGNED: CHS		
CHECKED: GML		
PROJ. MGR: GML		
STATUS: ISSUED FOR PERMIT	REVISION: 3	

SEE SHEET C-25

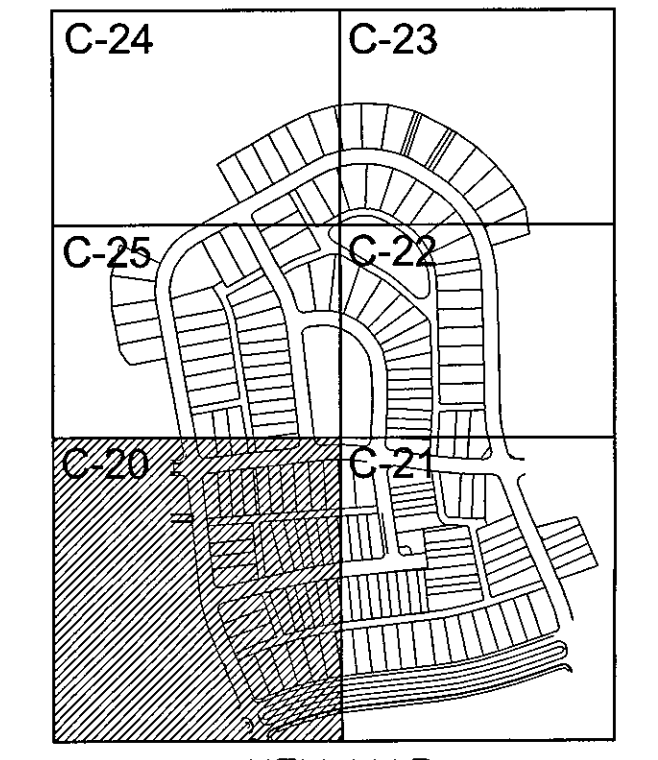
SECTION 2
SECTION 1



SEE SHEET C-21



VICINITY MAP
NOT TO SCALE

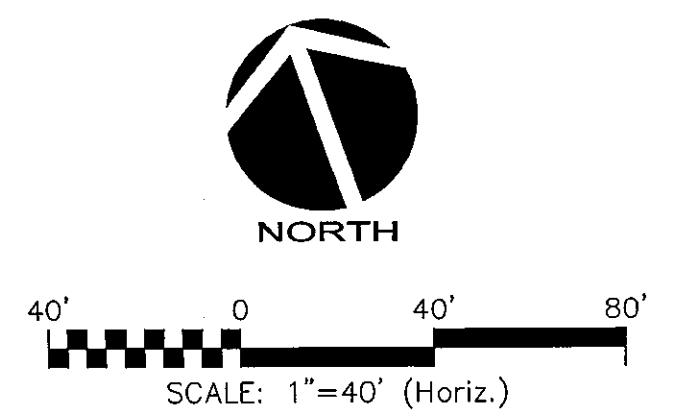


KEY MAP
NOT TO SCALE

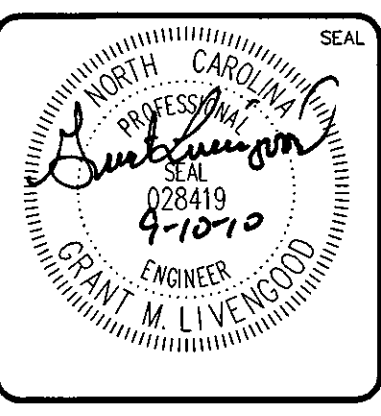
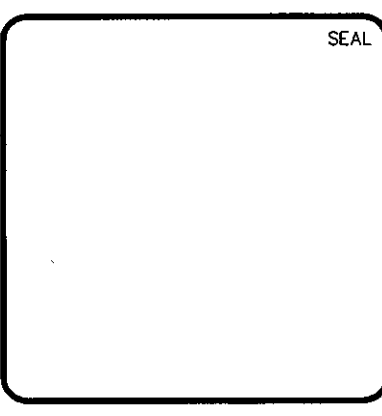
- LEGEND:**
- EXISTING WETLANDS
 - EXISTING STREAM CHANNEL
 - BLOCK & GRAVEL PIPE INLET PROTECTION
 - RIP RAP OUTLET PROTECTION
 - TEMPORARY CONSTRUCTION ENTRANCE
 - EXISTING SILT FENCE
 - LIMITS OF DISTURBANCE
 - DIVERSION DITCH
 - TREE PROTECTION FENCE
 - COMBINATION SILT FENCE/TREE PROTECTION FENCE
 - SILT FENCE OUTLET
 - EXISTING CONTOUR
 - PROPOSED CONTOUR
 - TEMPORARY DIVERSION DITCH
 - CHECK DAM
 - BAFFLE
 - TEMPORARY PIPE
 - PERMANENT STORM DRAINAGE PIPE



- NOTES:**
- SEE SHEET C-19 FOR CONSTRUCTION SEQUENCE, RETAINING WALL NOTES, GENERAL NOTES, STORM DRAINAGE NOTES, LIMITS OF DISTURBANCE NOTES AND TREE SAVE NOTES.
 - REFER TO PLAN & PROFILE SHEETS FOR DETAILED SANITARY SEWER, STORM DRAINAGE AND WATER LINE INFORMATION WITHIN PUBLIC ROADS AND PRIVATE ALLEYS.



REV. NO.	DESCRIPTIONS	DATE
2	PRELIMINARY PLAN SUBMITTAL TO CHATHAM COUNTY PLANNING	09.10.2010
1	SUBMITTAL TO CLIENT FOR REVIEW	08.06.2010



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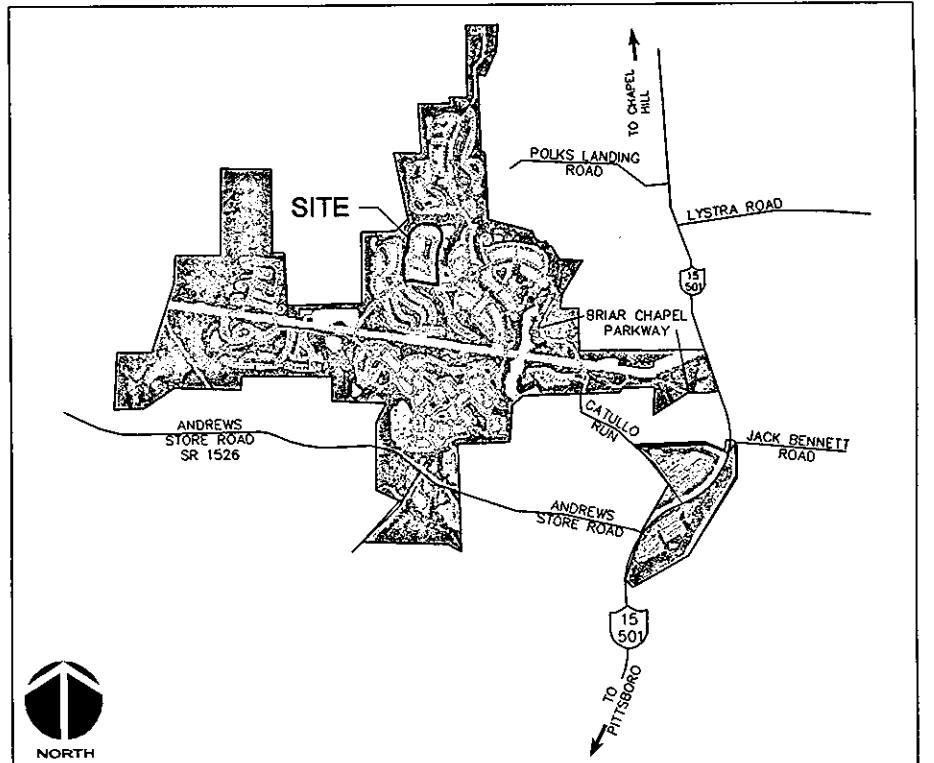
**BRIAR CHAPEL
 PHASE 5 NORTH - SECTION 1
 CHATHAM COUNTY, NORTH CAROLINA**
**GRADING, DRAINAGE &
 STAGE 2 EROSION CONTROL PLAN**

DATE: AUGUST 6, 2010	SCALE	M&C FILE NUMBER
M&C PROJ. # Q2735-0069	HORIZONTAL: 1" = 40'	CG101
DRAWN: CHS	VERTICAL: NA	C-20
DESIGNED: CHS		
CHECKED: GML		
PROJ. MGR: GML		
STATUS: ISSUED FOR PERMIT	REVISION: 2	

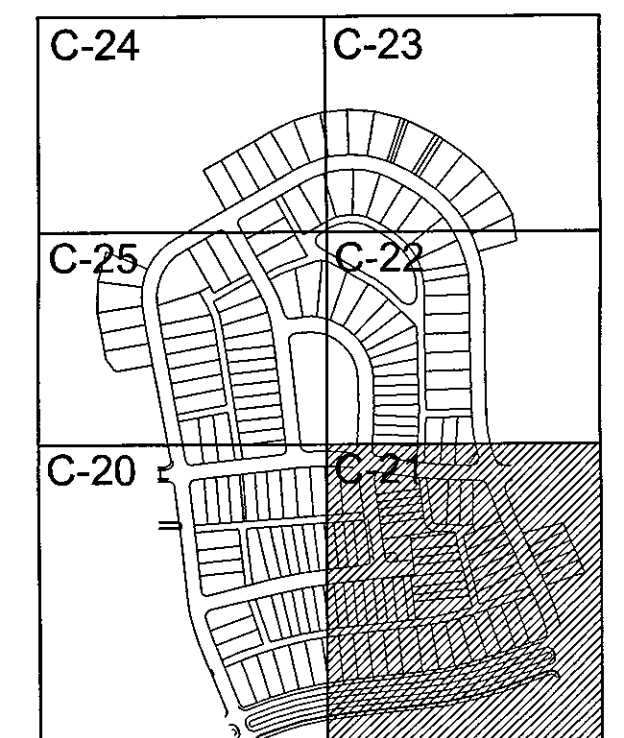
SEE SHEET C-22



SEE SHEET C-20



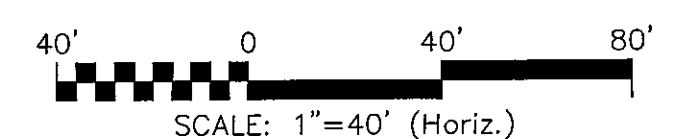
VICINITY MAP
NOT TO SCALE



KEY MAP
NOT TO SCALE

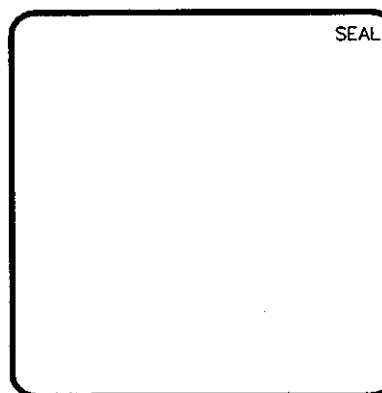
- LEGEND:**
- EXISTING WETLANDS
 - EXISTING STREAM CHANNEL
 - BLOCK & GRAVEL PIPE INLET PROTECTION
 - RIP RAP OUTLET PROTECTION
 - TEMPORARY CONSTRUCTION ENTRANCE
 - EXISTING SILT FENCE
 - LIMITS OF DISTURBANCE
 - DIVERSION DITCH
 - TREE PROTECTION FENCE
 - COMBINATION SILT FENCE/TREE PROTECTION FENCE
 - SILT FENCE OUTLET
 - EXISTING CONTOUR
 - PROPOSED CONTOUR
 - TEMPORARY DIVERSION DITCH
 - CHECK DAM
 - BAFFLE
 - TEMPORARY PIPE
 - PERMANENT STORM DRAINAGE PIPE

CALL N.C. ONE
CALL CENTER
STOP
BEFORE YOU DIG
1-800-632-4949
AVOID UTILITY
DAMAGE



- NOTES**
- SEE SHEET C-19 FOR CONSTRUCTION SEQUENCE, RETAINING WALL NOTES, GENERAL NOTES, STORM DRAINAGE NOTES, LIMITS OF DISTURBANCE NOTES AND TREE SAVE NOTES.
 - REFER TO PLAN & PROFILE SHEETS FOR DETAILED SANITARY SEWER, STORM DRAINAGE AND WATER LINE INFORMATION WITHIN PUBLIC ROADS AND PRIVATE ALLEYS.

REV. NO.	DESCRIPTIONS	DATE
3	PRELIMINARY PLAN SUBMITTAL TO CHATHAM COUNTY PLANNING	09.10.2010
2	ADDED NOTE FOR EXISTING STORM STRUCTURES	08.17.2010
1	SUBMITTAL TO CLIENT FOR REVIEW	08.06.2010



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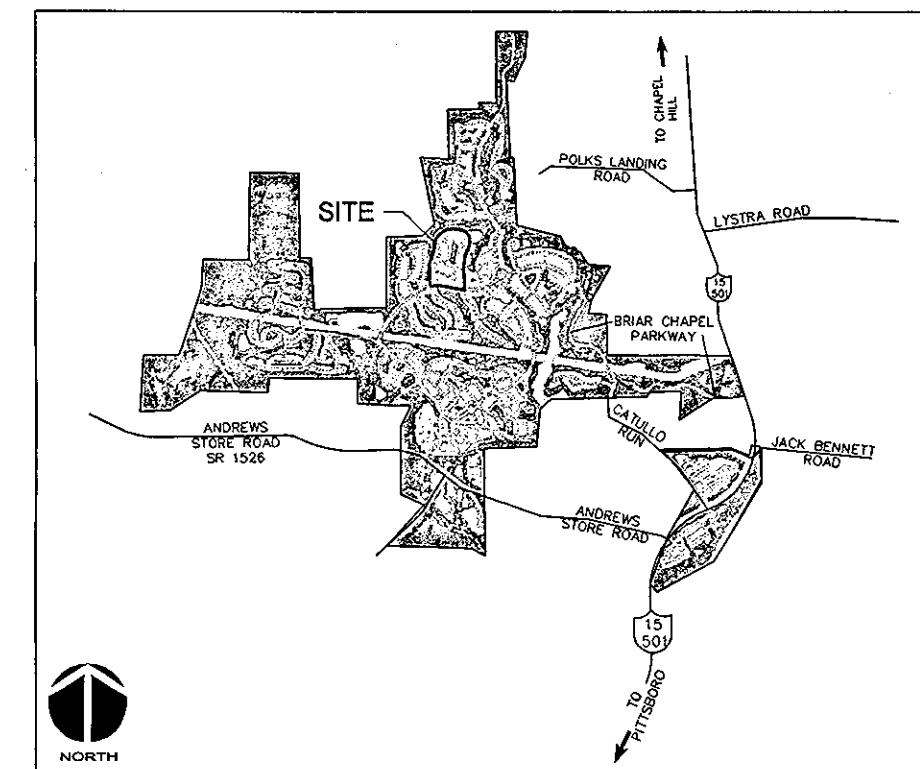
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PHASE 5 NORTH - SECTION 1
CHATHAM COUNTY, NORTH CAROLINA**

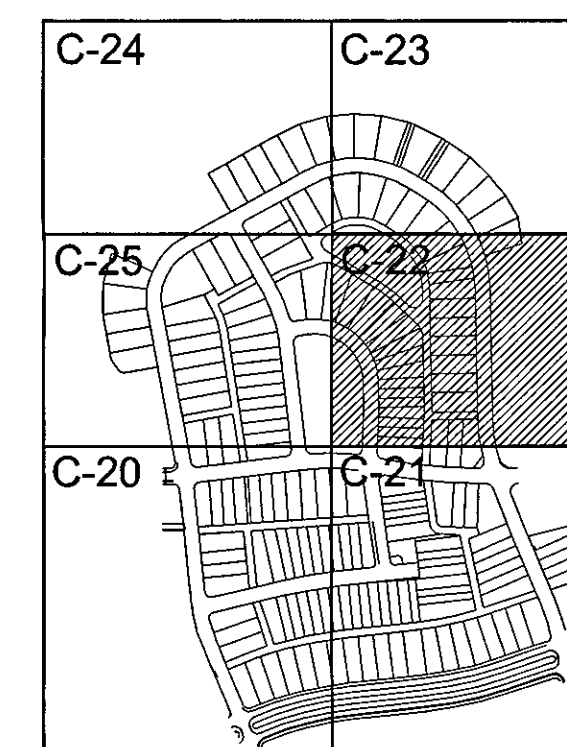
**GRADING, DRAINAGE &
STAGE 2 EROSION CONTROL PLAN**

DATE: AUGUST 6, 2010	SCALE	MAC FILE NUMBER
MCE PROJ. # 02735-0069	HORIZONTAL: 1" = 40'	CG101
DRAWN: CHS	VERTICAL: NA	DRAWING NUMBER
DESIGNED: CHS		C-21
CHECKED: GML		REVISION
PROJ. MGR.: GML		3

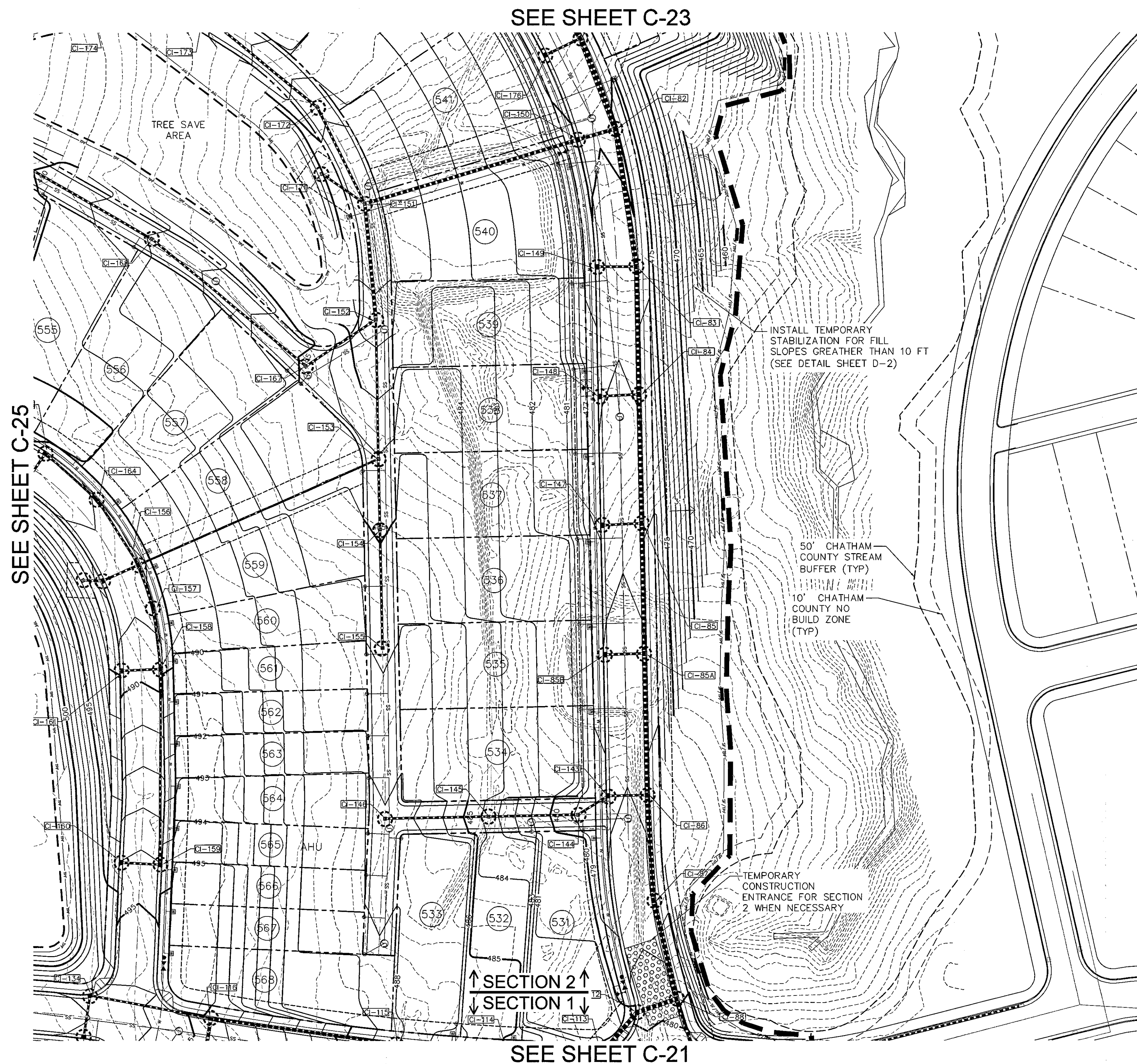
STATUS: ISSUED FOR PERMIT



VICINITY MAP
NOT TO SCALE



KEY MAP
NOT TO SCALE



LEGEND:

- EXISTING WETLANDS
- EXISTING STREAM CHANNEL
- BLOCK & GRAVEL PIPE INLET PROTECTION
- RIP RAP OUTLET PROTECTION
- TEMPORARY CONSTRUCTION ENTRANCE
- EXISTING SILT FENCE
- LIMITS OF DISTURBANCE
- DIVERSION DITCH
- TREE PROTECTION FENCE
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- SILT FENCE OUTLET
- EXISTING CONTOUR
- PROPOSED CONTOUR
- TEMPORARY DIVERSION DITCH
- CHECK DAM
- BAFFLE
- TEMPORARY PIPE
- PERMANENT STORM DRAINAGE PIPE

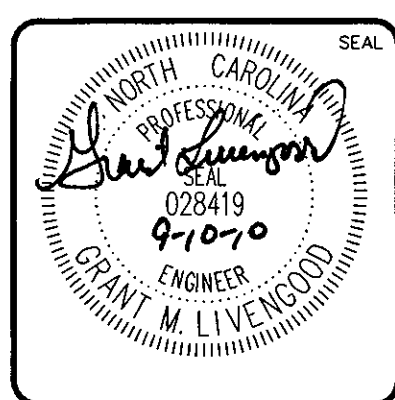
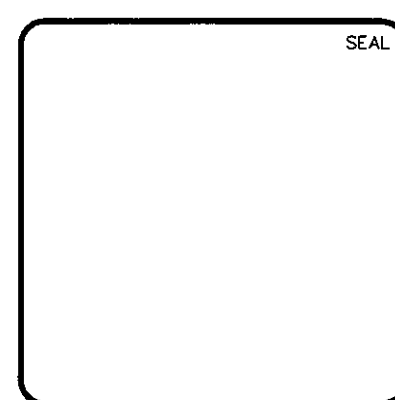


SCALE: 1" = 40' (Horiz.)

NOTES:

1. SEE SHEET C-19 FOR CONSTRUCTION SEQUENCE, RETAINING WALL NOTES, GENERAL NOTES, STORM DRAINAGE NOTES, LIMITS OF DISTURBANCE NOTES AND TREE SAVE NOTES.
2. REFER TO PLAN & PROFILE SHEETS FOR DETAILED SANITARY SEWER, STORM DRAINAGE AND WATER LINE INFORMATION WITHIN PUBLIC ROADS AND PRIVATE ALLEYS.

REV. NO.	DATE	DESCRIPTIONS
2	09.10.2010	PRELIMINARY PLAN SUBMITTAL TO CHATHAM COUNTY PLANNING
1	08.06.2010	SUBMITTAL TO CLIENT FOR REVIEW



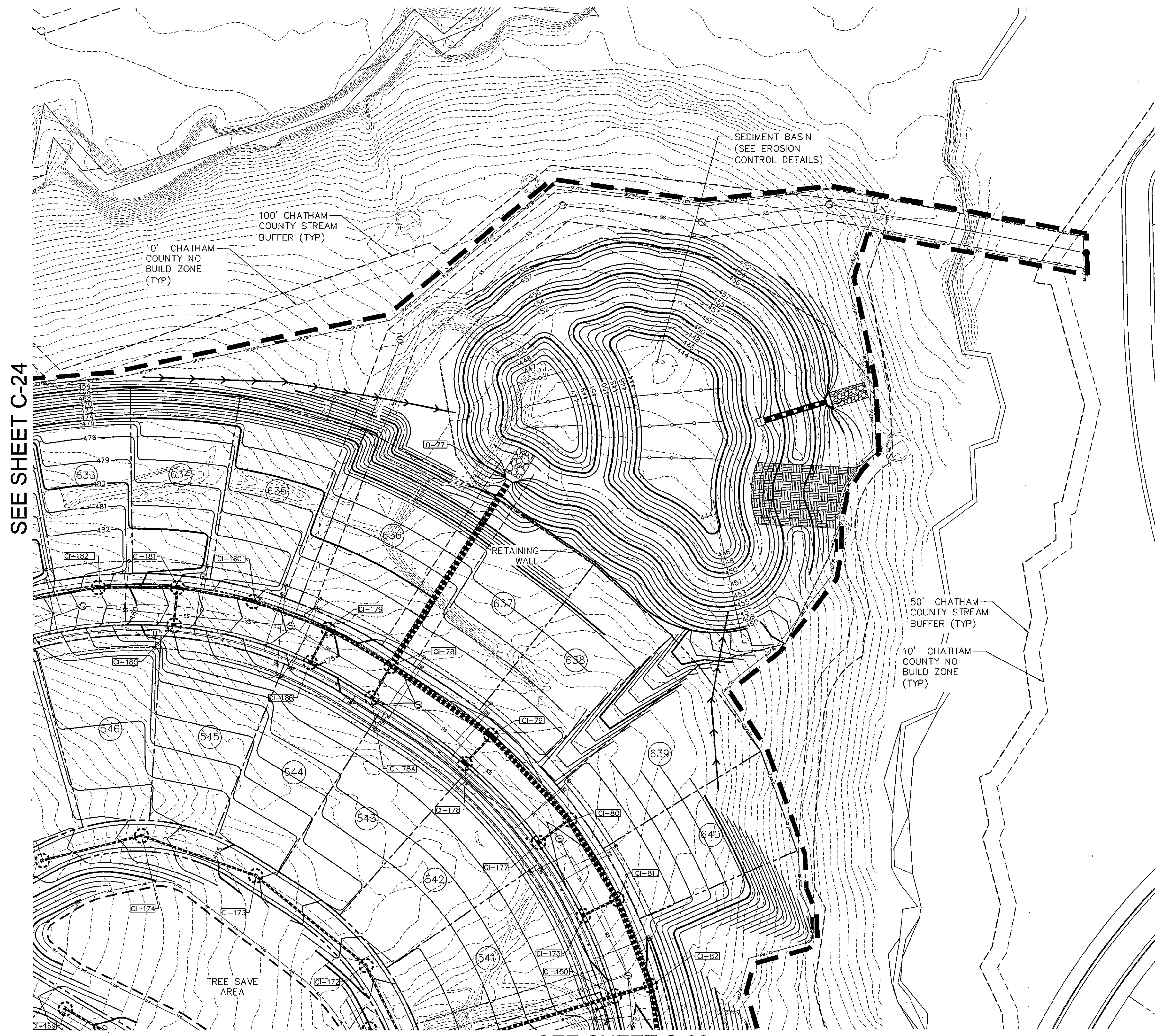
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 PHASE 5 NORTH - SECTION 2
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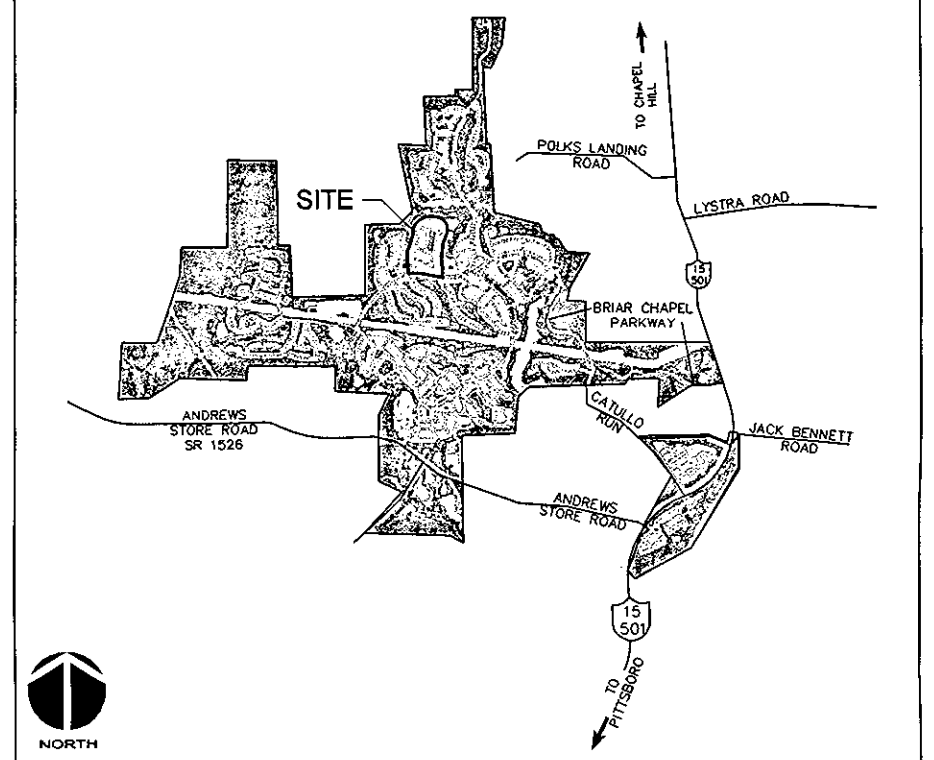
**GRADING, DRAINAGE &
 STAGE 2 EROSION CONTROL PLAN**

DATE: AUGUST 6, 2010	SCALE: HORIZONTAL: 1" = 40'	MAC FILE NUMBER: CG101
MCE PROJ. # 02735-0089	DESIGNED: CHS	DRAWING NUMBER: C-22
DRAWN: CHS	CHECKED: GML	REVISION: 2
PROJ. MGR: GML	STATUS: ISSUED FOR PERMIT	

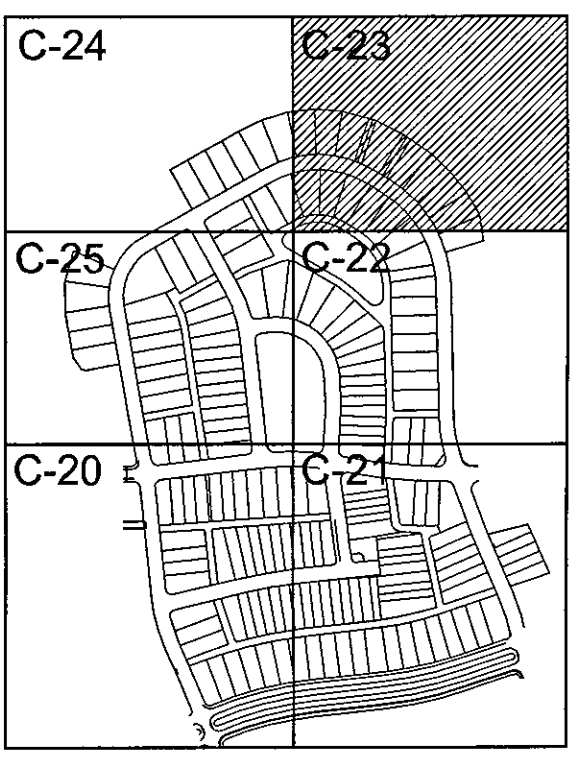


SEE SHEET C-24

SEE SHEET C-22

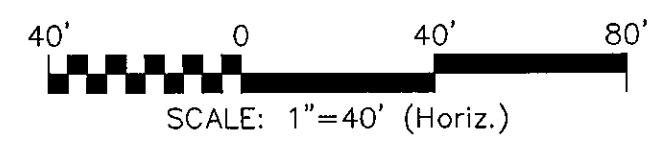


VICINITY MAP
NOT TO SCALE



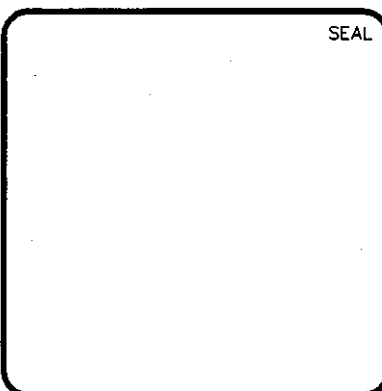
KEY MAP
NOT TO SCALE

- LEGEND:**
- EXISTING WETLANDS
 - EXISTING STREAM CHANNEL
 - BLOCK & GRAVEL PIPE INLET PROTECTION
 - RIP RAP OUTLET PROTECTION
 - TEMPORARY CONSTRUCTION ENTRANCE
 - EXISTING SILT FENCE
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 - BAFFLE
 - TEMPORARY PIPE
 - PERMANENT STORM DRAINAGE PIPE



- NOTES:**
- SEE SHEET C-19 FOR CONSTRUCTION SEQUENCE, RETAINING WALL NOTES, GENERAL NOTES, STORM DRAINAGE NOTES, LIMITS OF DISTURBANCE NOTES AND TREE SAVE NOTES.
 - REFER TO PLAN & PROFILE SHEETS FOR DETAILED SANITARY SEWER, STORM DRAINAGE AND WATER LINE INFORMATION WITHIN PUBLIC ROADS AND PRIVATE ALLEYS.
 - SEE SHEET D-6 FOR RETAINING WALL DETAILS.

REV. NO.	DESCRIPTIONS / REVISIONS	DATE
2	PRELIMINARY PLAT SUBMITTAL TO CHATHAM COUNTY PLANNING	09.10.2010
1	SUBMITTAL TO CLIENT FOR REVIEW	08.06.2010



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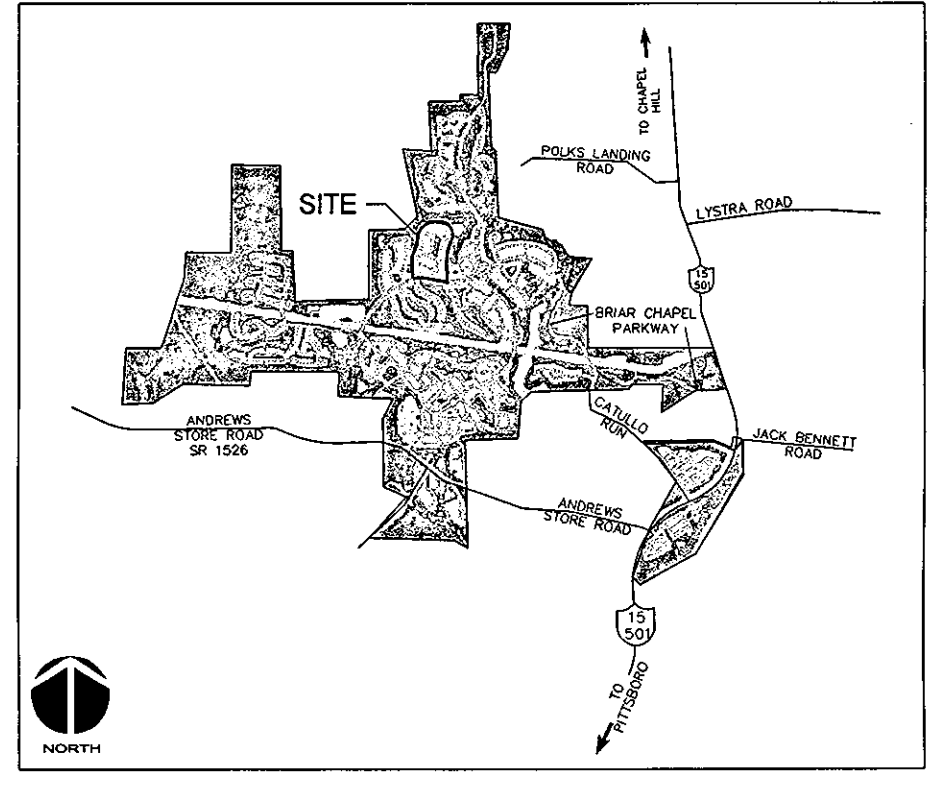
**GRADING, DRAINAGE &
 STAGE 2 EROSION CONTROL PLAN**

DATE: AUGUST 6, 2010	SCALE: HORIZONTAL: 1" = 40'	M&C FILE NUMBER: CG101
M&C PROJ. # 02735-0069	VERTICAL: NA	DRAWING NUMBER: C-23
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DESIGNED: CHS		
CHECKED: GML		
PROJ. MGR.: GML		
STATUS: ISSUED FOR PERMIT	REVISION: 2	

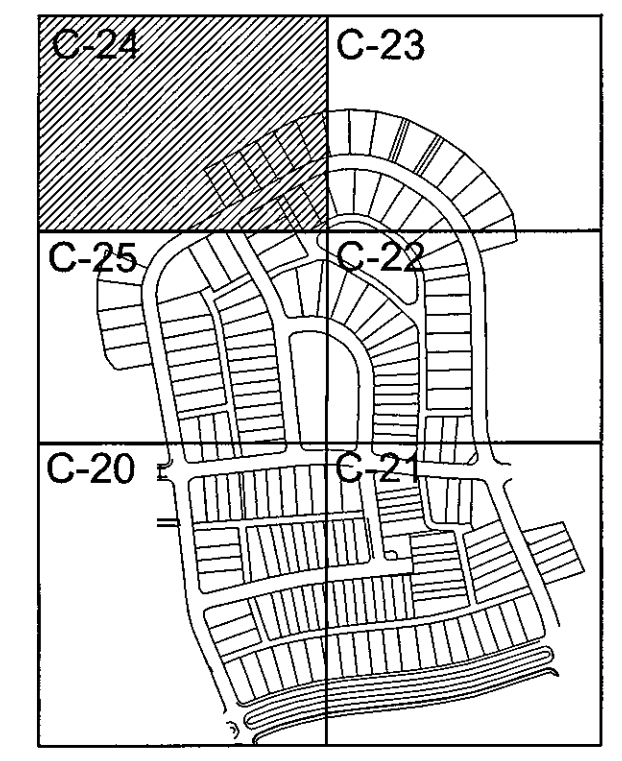


SEE SHEET C-25

SEE SHEET C-23



VICINITY MAP
NOT TO SCALE

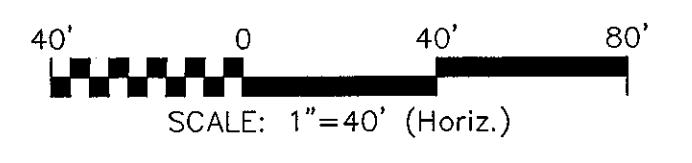


KEY MAP
NOT TO SCALE

LEGEND:

- EXISTING WETLANDS
- EXISTING STREAM CHANNEL
- BLOCK & GRAVEL PIPE INLET PROTECTION
- RIP RAP OUTLET PROTECTION
- TEMPORARY CONSTRUCTION ENTRANCE
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- EXISTING CONTOUR
- PROPOSED CONTOUR
- TEMPORARY DIVERSION DITCH
- CHECK DAM
- BAFFLE
- TEMPORARY PIPE
- PERMANENT STORM DRAINAGE PIPE

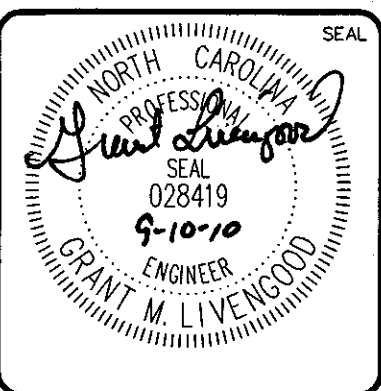
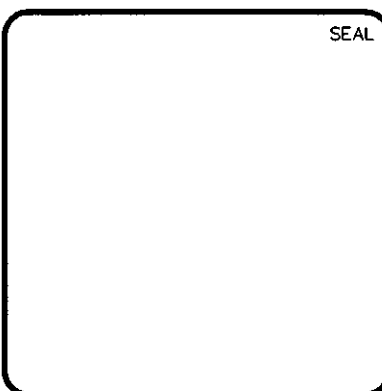
CALL N.C. ONE
CALL CENTER
BEFORE YOU DIG
STOP
1-800-632-4949
AVOID UTILITY
DAMAGE



NOTES:

1. SEE SHEET C-19 FOR CONSTRUCTION SEQUENCE, RETAINING WALL NOTES, GENERAL NOTES, STORM DRAINAGE NOTES, LIMITS OF DISTURBANCE NOTES AND TREE SAVE NOTES.
2. REFER TO PLAN & PROFILE SHEETS FOR DETAILED SANITARY SEWER, STORM DRAINAGE AND WATER LINE INFORMATION WITHIN PUBLIC ROADS AND PRIVATE ALLEYS.
3. SEE SHEET D-6 FOR RETAINING WALL DETAILS.

REV. NO.	DESCRIPTIONS / REVISIONS	DATE
3	PRELIMINARY PLAN SUBMITTAL TO CHATHAM COUNTY PLANNING	08.10.2010
2	REVISED PER CHATHAM COUNTY SETBACK REQUIREMENT/CLIENT COMMENTS	08.17.2010
1	SUBMITTAL TO CLIENT FOR REVIEW	08.05.2010



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**BRIAR CHAPEL
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 CHATHAM COUNTY, NORTH CAROLINA**

**GRADING, DRAINAGE &
 STAGE 2 EROSION CONTROL PLAN**

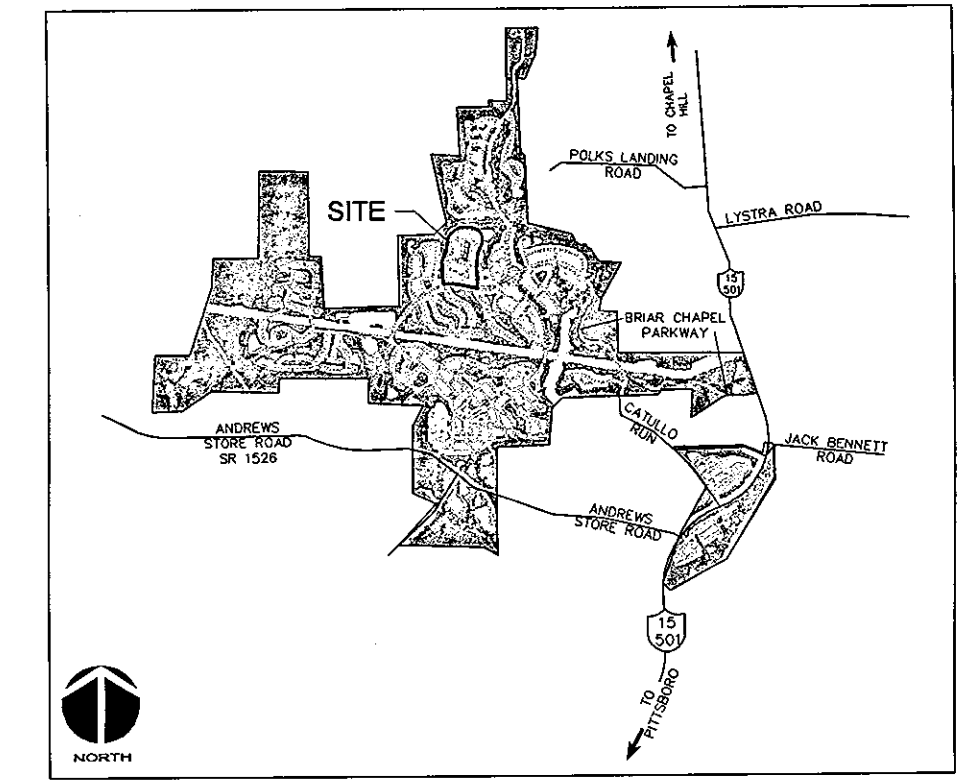
DATE: AUGUST 6, 2010	SCALE	M&C FILE NUMBER
M&C PROJ. # 02735-0069	HORIZONTAL:	CG101
DRAWN: CHS	1" = 40'	DRAWING NUMBER
DESIGNED: CHS	VERTICAL:	C-24
CHECKED: GML	NA	REVISION
PROJ. MGR: GML		3
STATUS: ISSUED FOR PERMIT		

SEE SHEET C-24

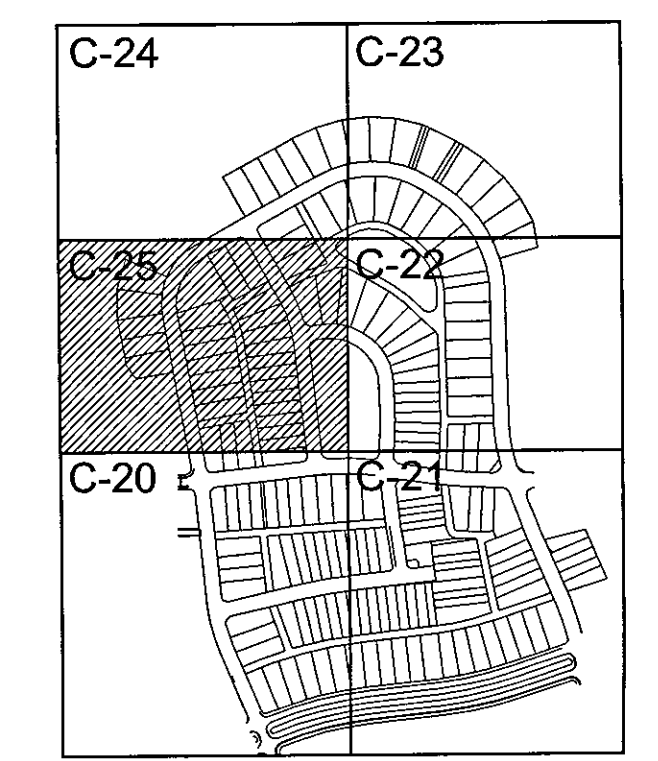


SEE SHEET C-22

SEE SHEET C-20



VICINITY MAP
NOT TO SCALE

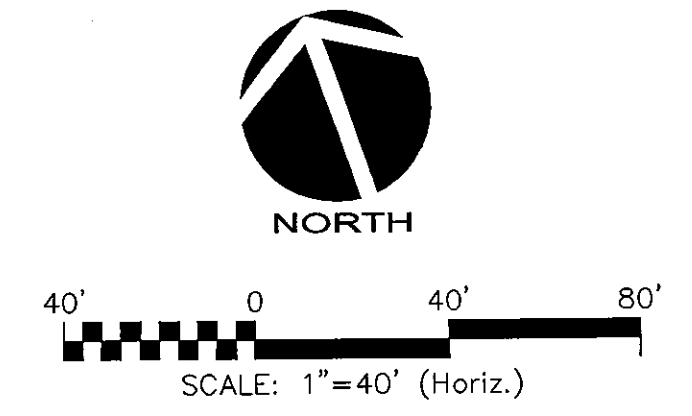


KEY MAP
NOT TO SCALE

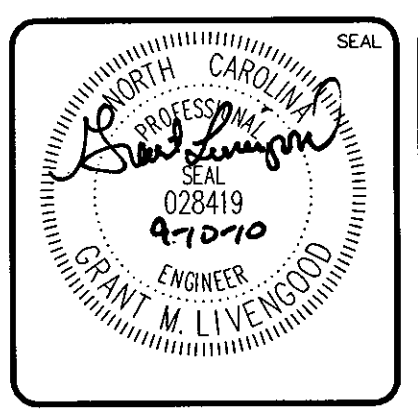
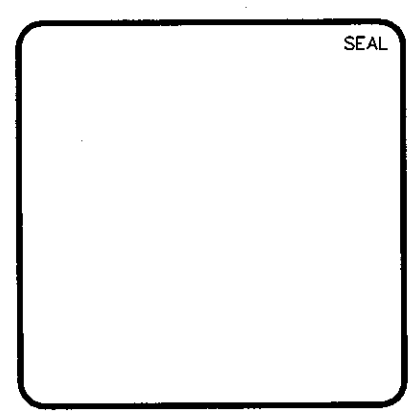
- LEGEND:**
- EXISTING WETLANDS
 - EXISTING STREAM CHANNEL
 - BLOCK & GRAVEL PIPE INLET PROTECTION
 - RIP RAP OUTLET PROTECTION
 - TEMPORARY CONSTRUCTION ENTRANCE
 - EXISTING SILT FENCE
 - LIMITS OF DISTURBANCE
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 - TEMPORARY PIPE
 - PERMANENT STORM DRAINAGE PIPE



- NOTES:**
- SEE SHEET C-19 FOR CONSTRUCTION SEQUENCE, RETAINING WALL NOTES, GENERAL NOTES, STORM DRAINAGE NOTES, LIMITS OF DISTURBANCE NOTES AND TREE SAVE NOTES.
 - REFER TO PLAN & PROFILE SHEETS FOR DETAILED SANITARY SEWER, STORM DRAINAGE AND WATER LINE INFORMATION WITHIN PUBLIC ROADS AND PRIVATE ALLEYS.
 - SEE SHEET D-6 FOR RETAINING WALL DETAILS.



REV. NO.	DESCRIPTIONS REVISIONS	DATE
2	PRELIMINARY PLAT SUBMITTAL TO CHATHAM COUNTY PLANNING	09.10.2010
1	SUBMITTAL TO CLIENT FOR REVIEW	08.02.2010



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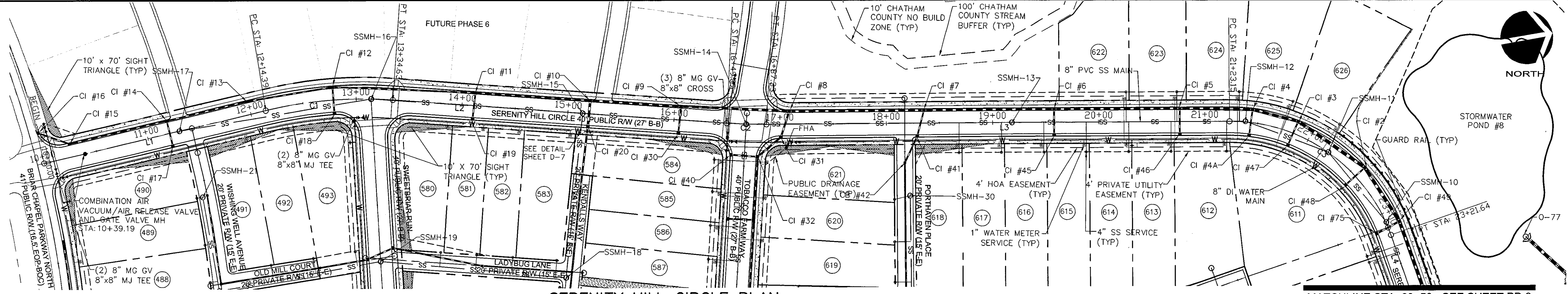
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**BRIAR CHAPEL
 PHASE 5 NORTH - SECTION 2
 CHATHAM COUNTY, NORTH CAROLINA**

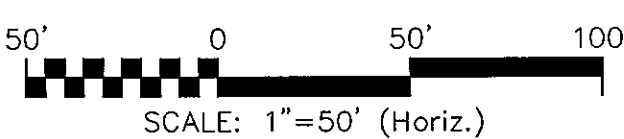
**GRADING, DRAINAGE &
 STAGE 2 EROSION CONTROL PLAN**

DATE: AUGUST 6, 2010	SCALE: HORIZONTAL: 1" = 40'	M&C FILE NUMBER: CG101
M&C PROJ. # 02735-0069	VERTICAL: NA	DRAWING NUMBER: C-25
DRAWN: CMB		
DESIGNED: CMB		
CHECKED: GML		
PROJ. MGR: GML		
STATUS: ISSUED FOR PERMIT	REVISION: 2	

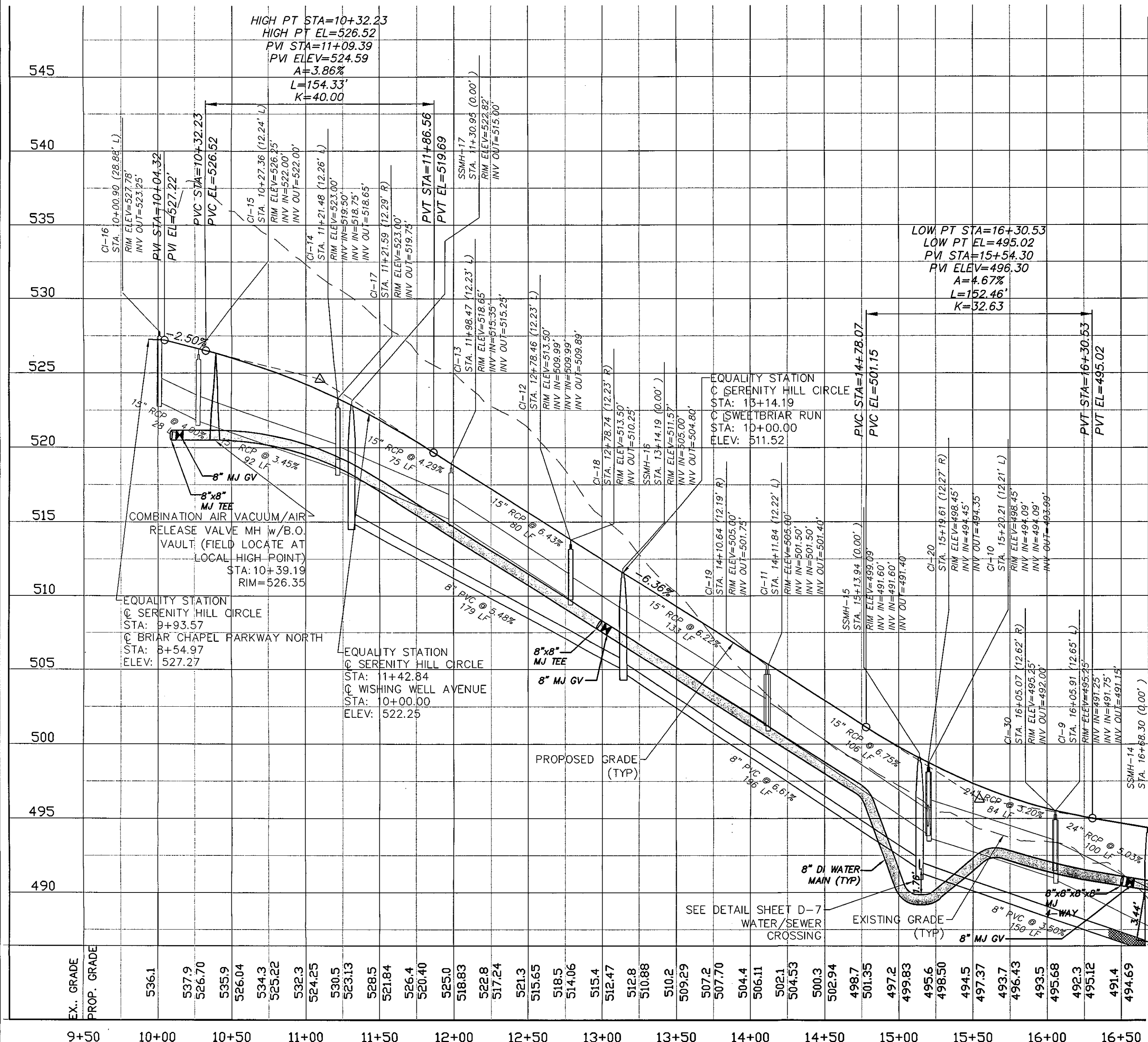
Number	Length	Radius	Line/Chord Direction
L1	214.394		N3° 13' 12.53"W
L2	315.223		N14° 00' 08.08"E
L3	435.824		N8° 42' 28.15"E
L4	257.449		N80° 47' 16.24"E
L5	115.069		N80° 47' 16.24"E
L6	42.457		S37° 41' 51.03"E
L7	353.489		S18° 48' 08.90"W
L8	196.348		S3° 30' 23.25"E
C1	120.235	400.000	N5° 23' 27.77"E
C2	37.476	500.000	N11° 51' 18.12"E
C3	198.493	160.000	N45° 14' 52.19"E
C4	295.249	275.000	S68° 27' 17.39"E
C5	320.466	325.000	S9° 26' 51.06"E
C6	86.258	325.000	S11° 11' 56.63"W
C7	224.159	1500.000	S0° 46' 28.52"W
C8	119.998	500.000	S3° 22' 08.04"W



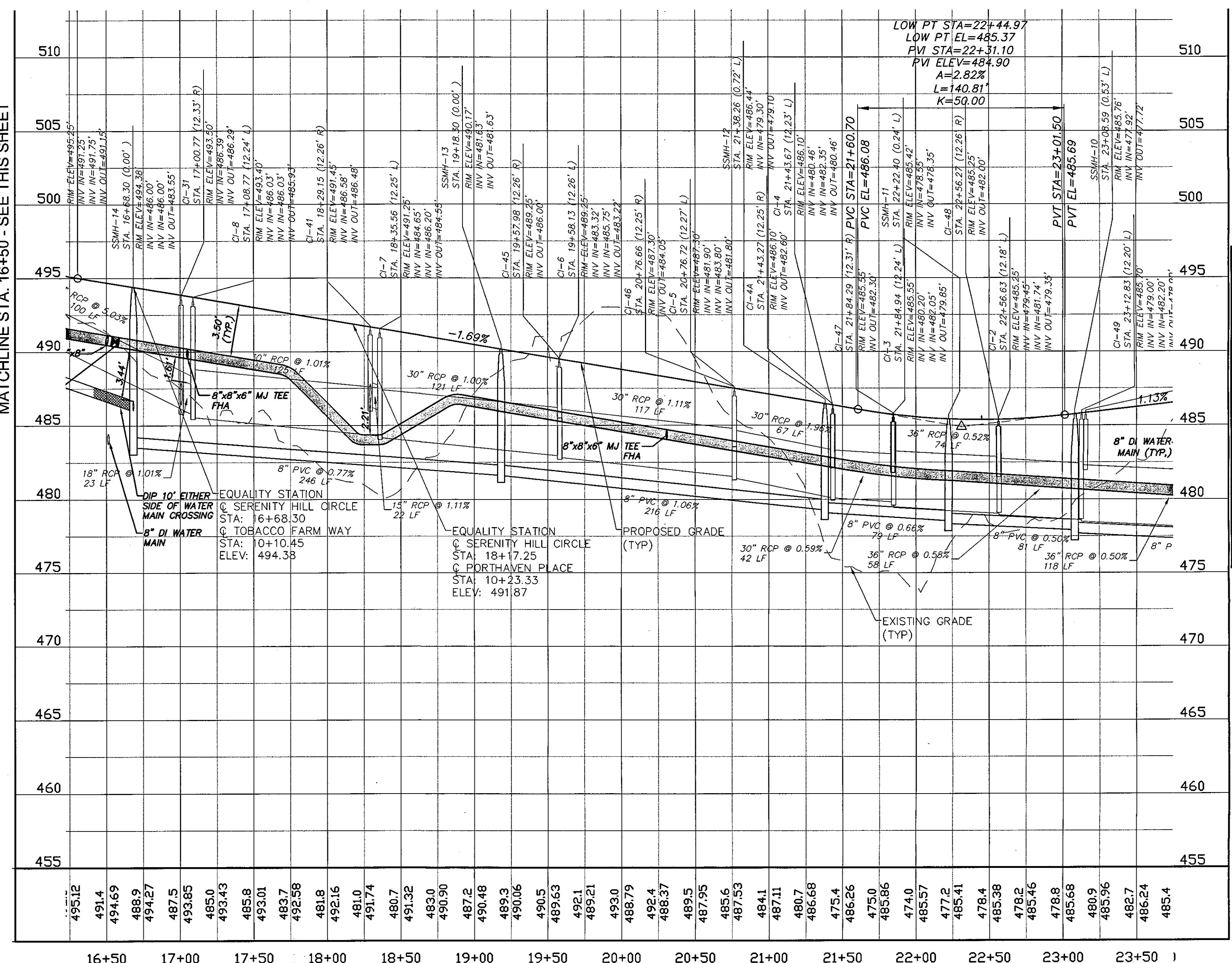
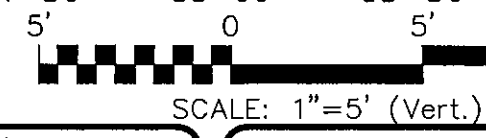
SERENITY HILL CIRCLE PLAN
(40' PUBLIC R/W, STA. 10+00 TO 23+50)



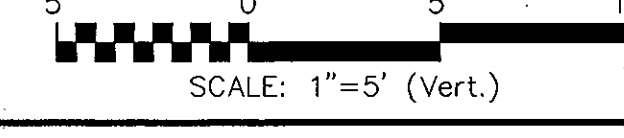
MATCHLINE STA. 23+50 - SEE SHEET PP-2



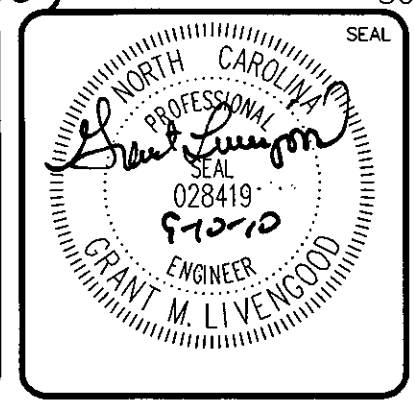
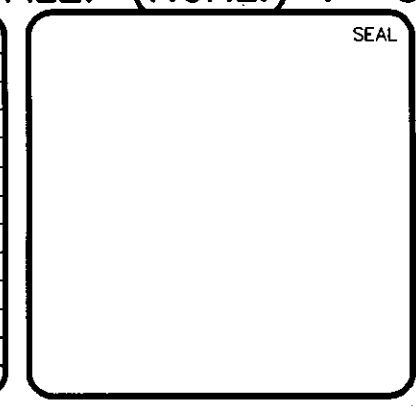
SERENITY HILL CIRCLE PROFILE
(STA. 10+00 TO 15+50, SCALE: (Horiz.) 1"=50')



SERENITY HILL CIRCLE PROFILE
(STA. 15+50 TO 23+50, SCALE: (Horiz.) 1"=50')



REV. NO.	DESCRIPTIONS	DATE
3	PRELIMINARY PLAN SUBMITTED TO CHATHAM COUNTY PLANNING	09/10/2010
2	REVISED PER NCEMNR PWS COMMENTS DATED 08/04/10	09/08/2010
1	SUBMITTAL TO CLIENT FOR REVIEW	08/06/2010



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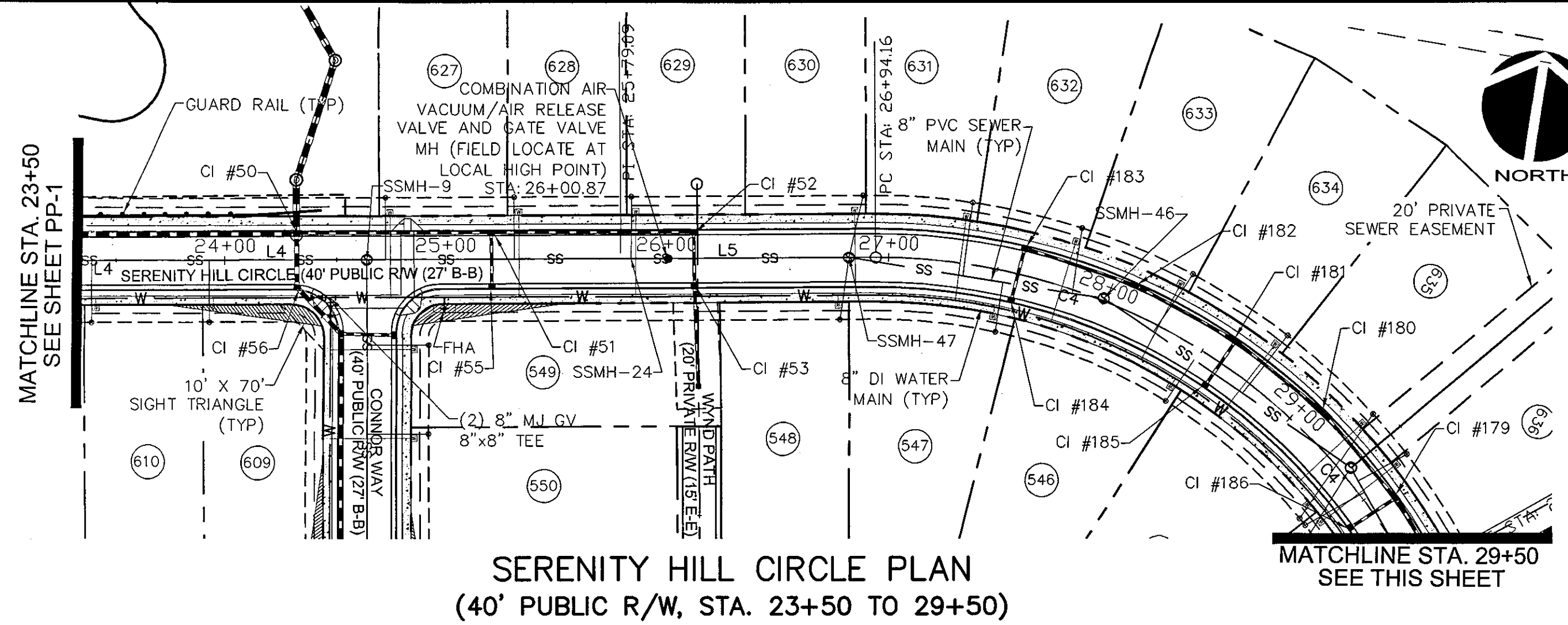
**BRIAR CHAPEL
PHASE 5 NORTH
CHATHAM COUNTY, NORTH CAROLINA**
PLAN AND PROFILE
SERENITY HILL CIRCLE
STA. 10+00 TO STA. 23+50

DATE: AUGUST 3, 2010
MCE PROJ. # 02735-0069
DRAWN: CMB
DESIGNED: CMB
CHECKED: GML
PROJ. MGR.: GML

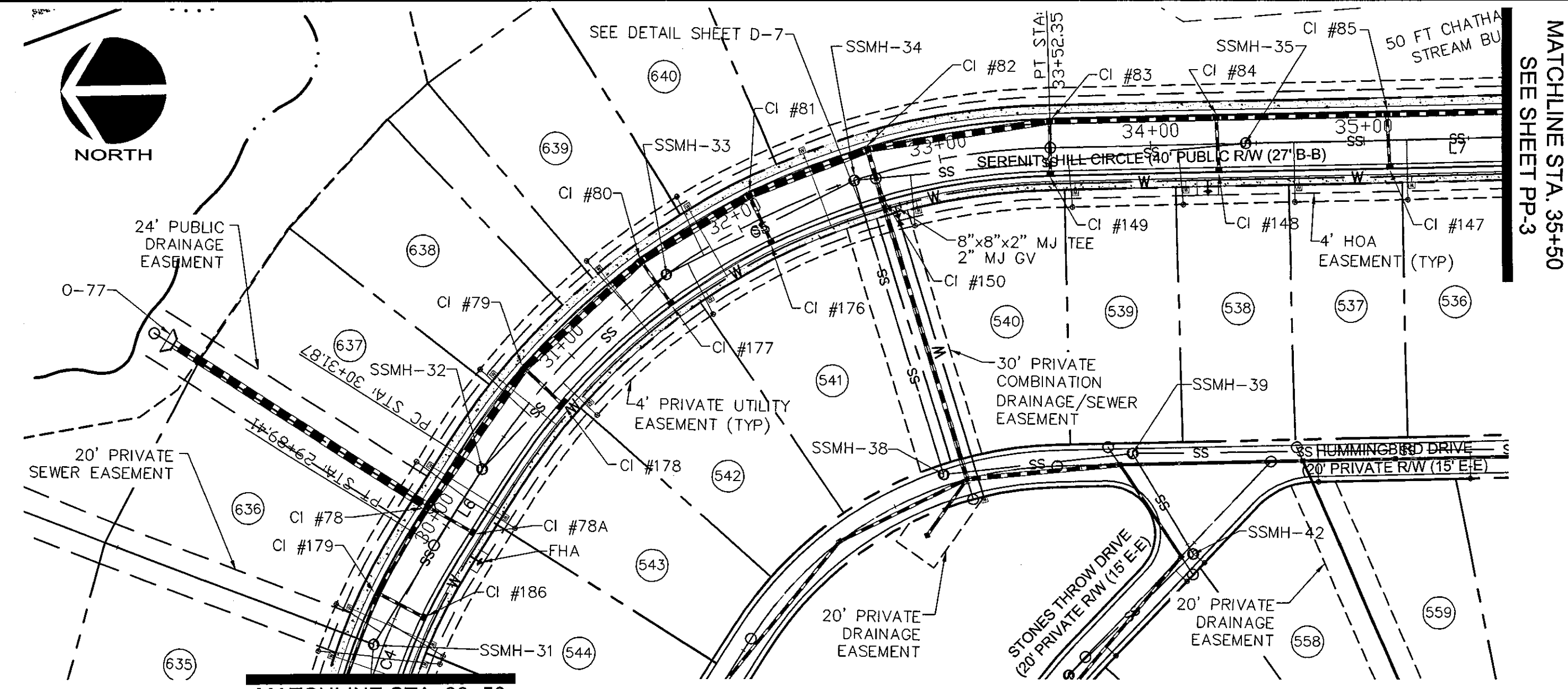
SCALE
HORIZONTAL:
1" = 50'
VERTICAL:
1" = 5'

MAC FILE NUMBER
CT701
DRAWING NUMBER
PP-1

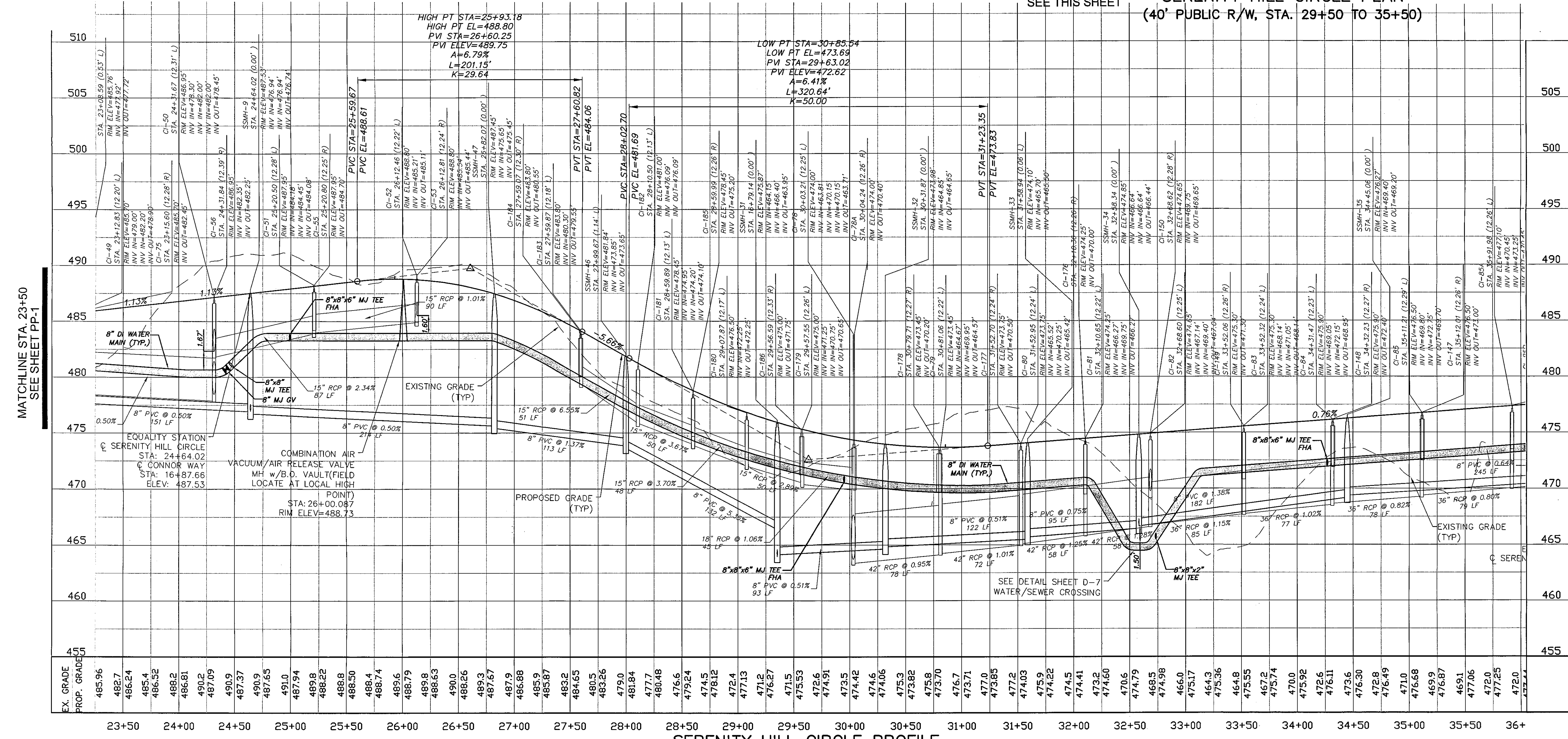
STATUS: ISSUED FOR PERMIT
REVISION 3



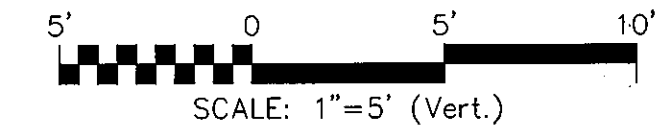
SERENITY HILL CIRCLE PLAN
(40' PUBLIC R/W, STA. 23+50 TO 29+50)



SERENITY HILL CIRCLE PLAN
(40' PUBLIC R/W, STA. 29+50 TO 35+50)

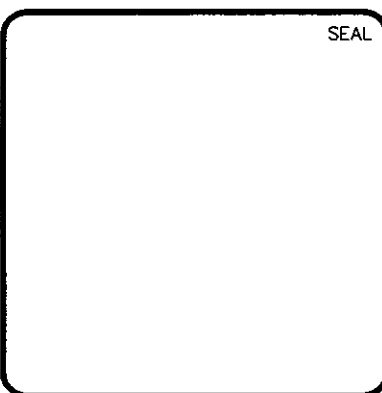


SERENITY HILL CIRCLE PROFILE
SCALE: (Horiz.) 1"=50'



SERENITY HILL CIRCLE				
Number	Length	Radius	Line/Chord Direction	
L1	214.394		N3° 13' 12.53"W	
L2	315.223		N14° 00' 08.08"E	
L3	435.824		N9° 42' 28.15"E	
L4	257.449		N80° 47' 16.24"E	
L5	115.089		N80° 47' 16.24"E	
L6	42.467		S37° 41' 51.03"E	
L7	353.489		S18° 48' 08.90"W	
L8	196.348		S3° 30' 23.25"E	
C1	120.235	400.000	N5° 23' 27.77"E	
C2	37.476	500.000	N11° 51' 18.12"E	
C3	198.493	160.000	N45° 14' 52.19"E	
C4	295.249	275.000	S68° 27' 17.39"E	
C5	320.486	325.000	S9° 26' 51.06"E	
C6	86.258	325.000	S11° 11' 56.63"W	
C7	224.159	1500.000	S0° 46' 28.52"W	
C8	119.998	500.000	S3° 22' 08.04"W	

REVNO.	DESCRIPTIONS	DATE
4	PRELIMINARY PLAN SUBMITTAL TO CHATHAM COUNTY PLANNING	09.10.2010
3	REVISED PER MCKIM & CREED COMMENTS DATED 09/10/10	09.08.2010
2	REVISED PER CHATHAM COUNTY PUBLIC UTILITIES COMMENTS	09.01.2010
1	SUBMITTAL TO CLIENT FOR REVIEW	08.03.2010



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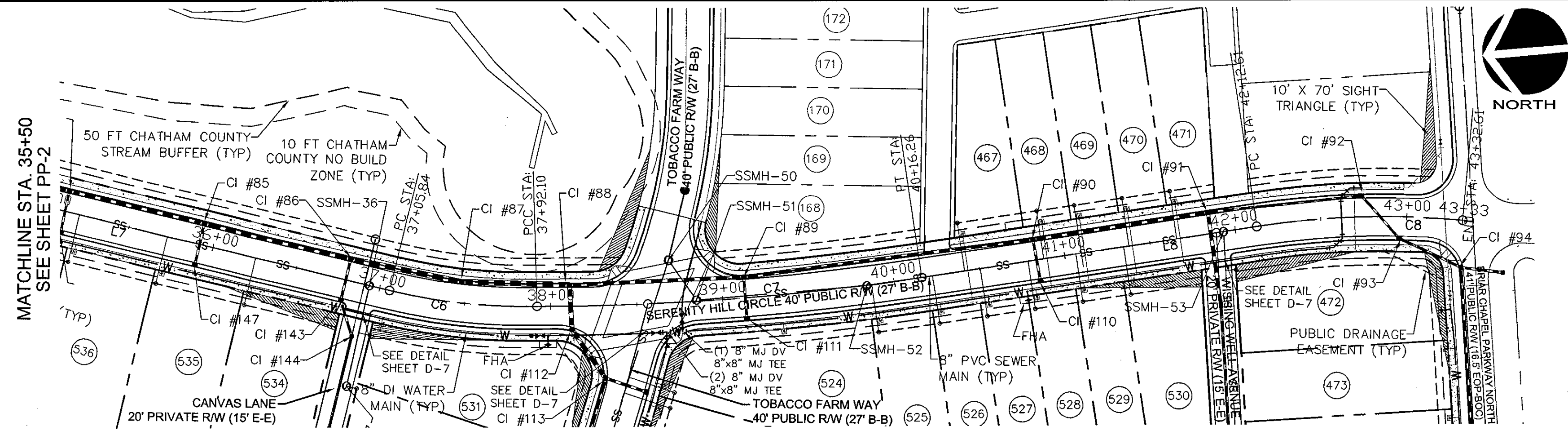
BRIAR CHAPEL
PHASE 5 NORTH
CHATHAM COUNTY, NORTH CAROLINA
PLAN AND PROFILE
SERENITY HILL CIRCLE
STA. 23+50 TO STA. 35+50

DATE: AUGUST 3, 2010
MCE PROJ. # 02735-0069
DRAWN: CMB
DESIGNED: CMB
CHECKED: GML
PROJ. MGR. GML

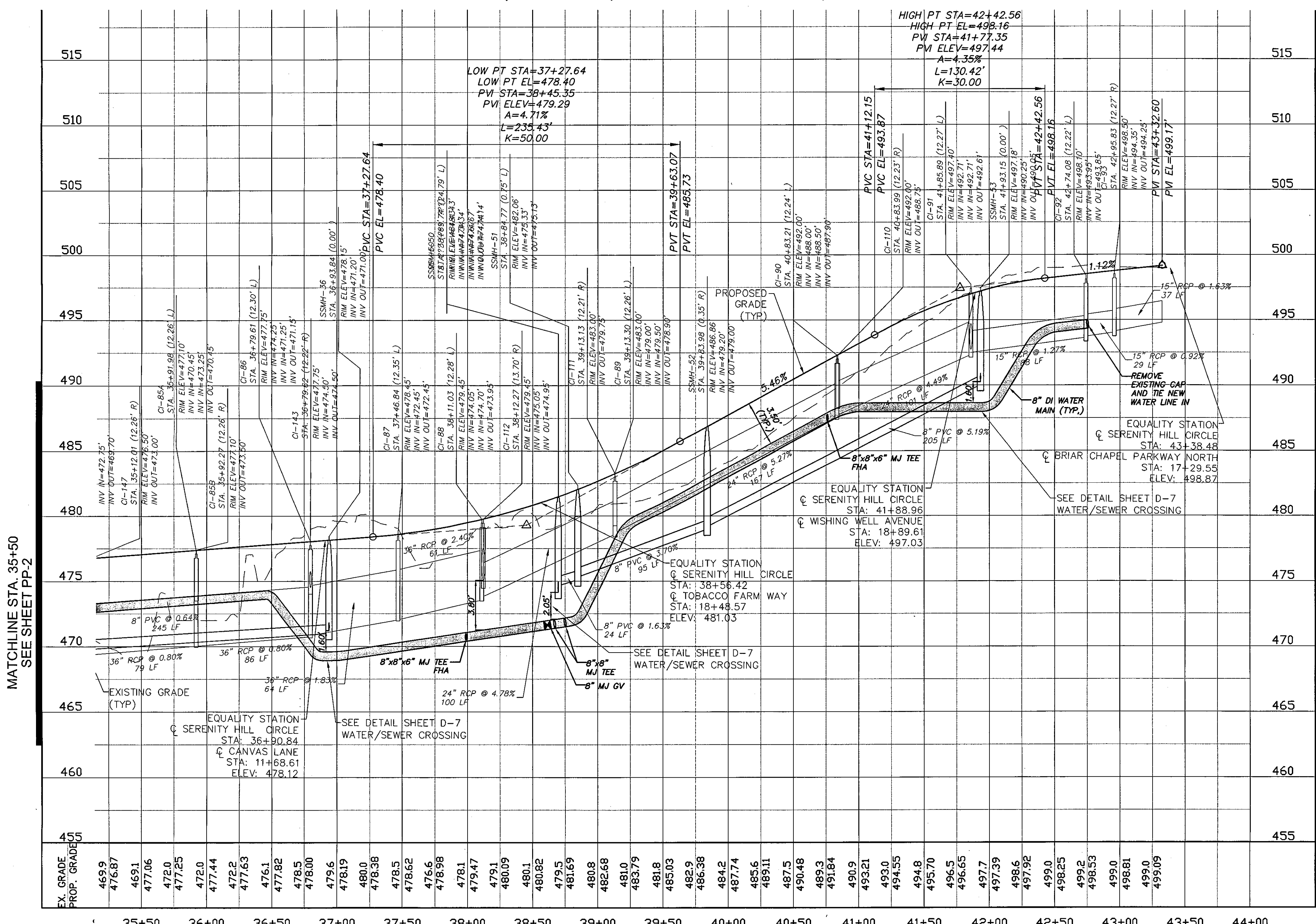
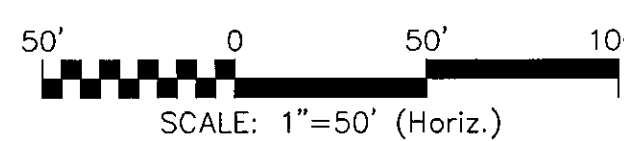
SCALE
HORIZONTAL:
1" = 50'
VERTICAL:
1" = 5'

M&C FILE NUMBER
CT701
DRAWING NUMBER
PP-2

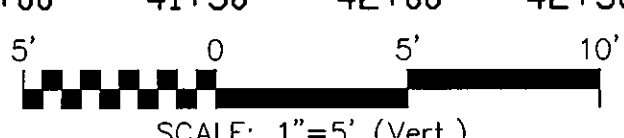
STATUS: ISSUED FOR PERMIT
REVISION
4



SERENITY HILL CIRCLE PLAN
 (40' PUBLIC R/W, STA. 35+50 TO 43+33)



SERENITY HILL CIRCLE PROFILE
 SCALE: (Horiz.) 1"=50'



SERENITY HILL CIRCLE			
Number	Length	Radius	Line/Chord Direction
L1	214.394		N3° 13' 12.53"W
L2	315.223		N14° 00' 08.08"E
L3	435.824		N9° 42' 28.15"E
L4	257.449		N80° 47' 16.24"E
L5	115.069		N80° 47' 16.24"E
L6	42.457		S37° 41' 51.03"E
L7	353.489		S18° 48' 08.90"W
L8	196.348		S3° 30' 23.25"E
C1	120.235	400.000	N5° 23' 27.77"E
C2	37.476	500.000	N11° 51' 18.12"E
C3	198.493	160.000	N45° 14' 52.19"E
C4	295.249	275.000	S68° 27' 17.39"E
C5	320.486	325.000	S9° 26' 51.06"E
C6	86.258	325.000	S11° 51' 56.63"W
C7	224.159	1500.000	S0° 46' 28.52"W
C8	119.998	500.000	S3° 22' 08.04"W

NOTE TO CONTRACTOR:
 CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES AND CHECK FOR CONFLICTS WITH PROPOSED STORM DRAINAGE INSTALLATIONS PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES. NOTIFY ENGINEER OF ANY CONFLICTS FOUND.

REVNO.	DESCRIPTIONS	DATE
4	PRELIMINARY PLAN SUBMITTAL TO CHATHAM COUNTY PLANNING	08.10.2010
3	REVISED PER NCCDMR PWS COMMENTS DATED 09/04/10	09.08.2010
2	REVISED PER CHATHAM COUNTY PUBLIC UTILITIES COMMENTS	09.01.2010
1	SUBMITTAL TO CLIENT FOR REVIEW	08.08.2010

SEAL

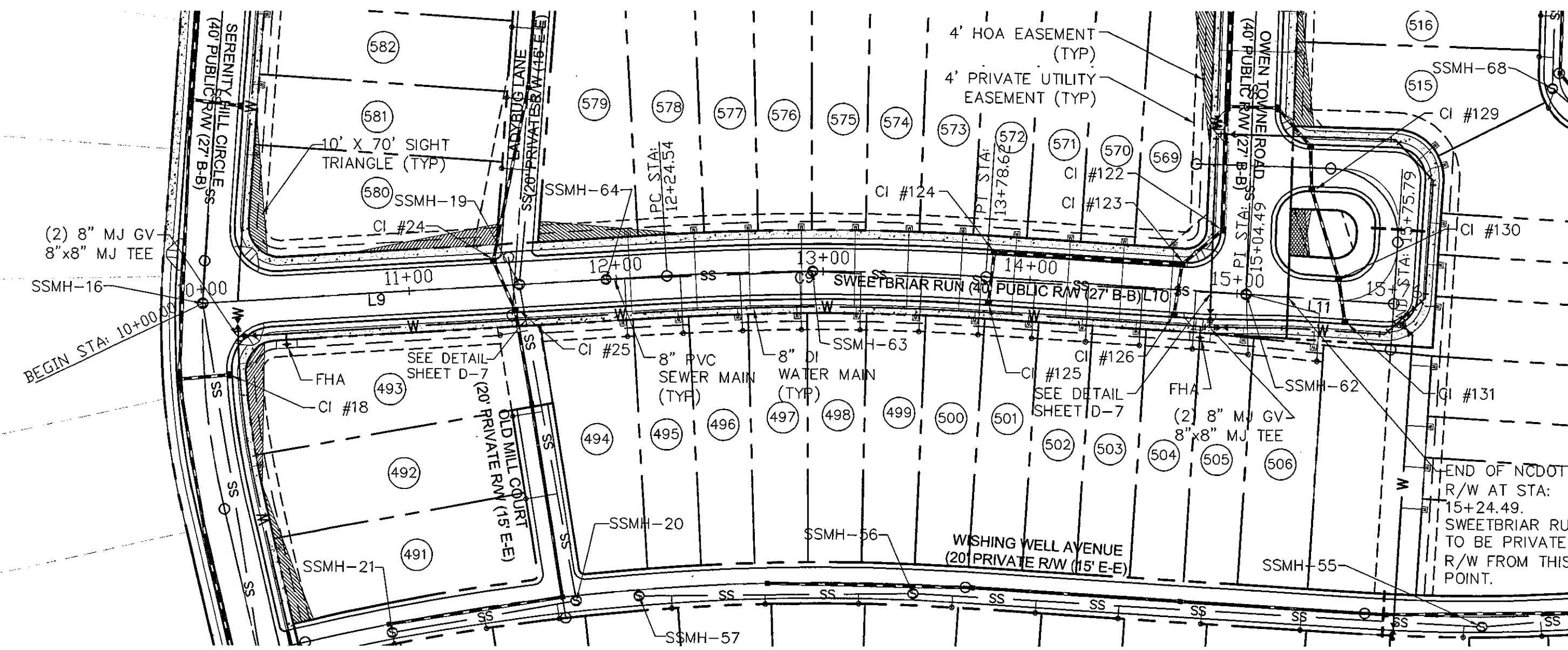
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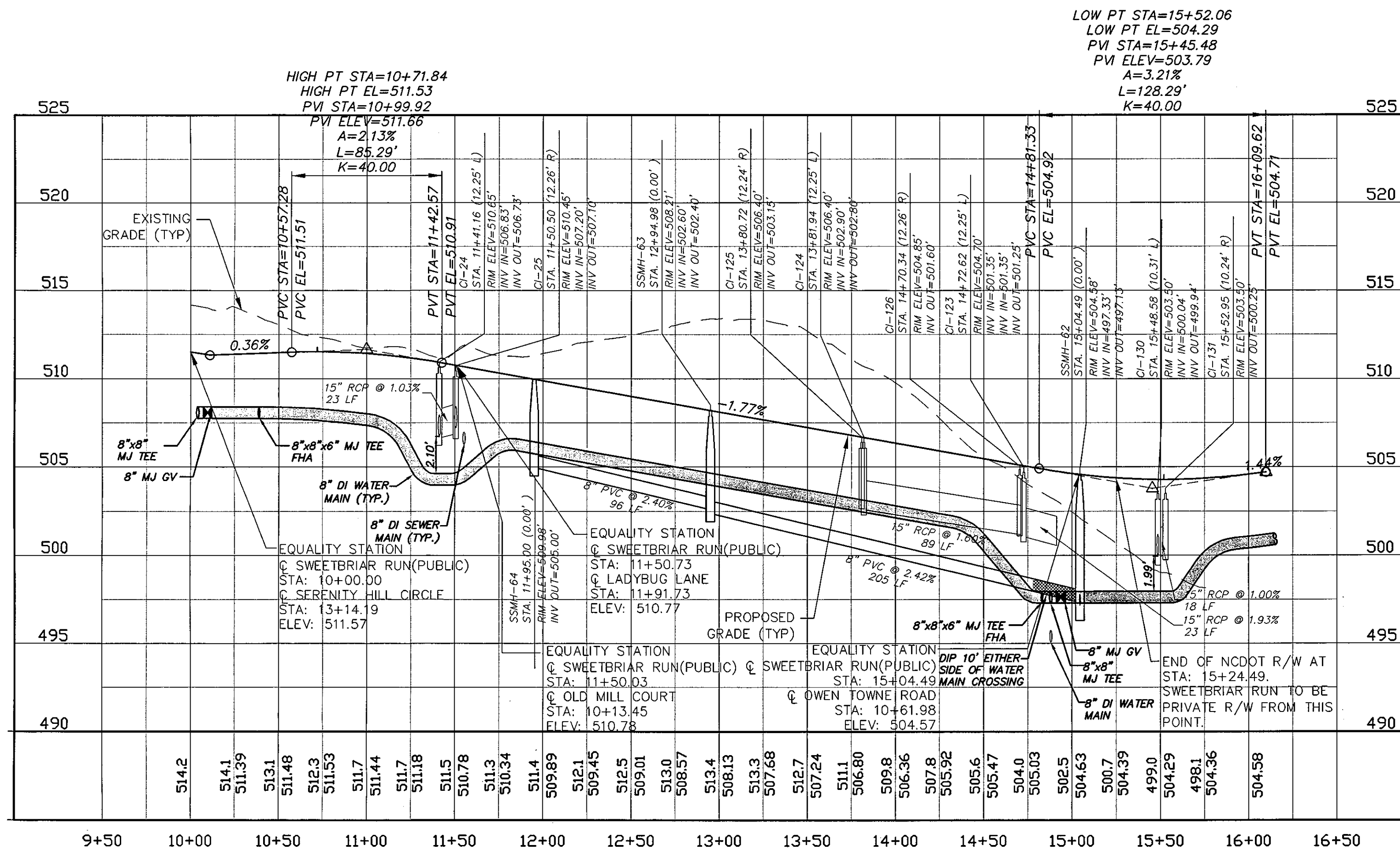
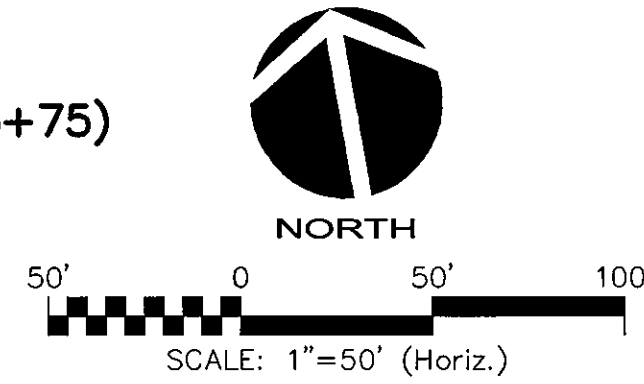
**BRIAR CHAPEL
 PHASE 5 NORTH
 CHATHAM COUNTY, NORTH CAROLINA
 PLAN AND PROFILE
 SERENITY HILL CIRCLE
 STA. 35+50 TO STA. 43+33**

DATE: AUGUST 3, 2010	SCALE: HORIZONTAL: 1" = 50' VERTICAL: 1" = 5'	M&C FILE NUMBER: CT701
M&C PROJ # 02735-0069		DRAWING NUMBER: PP-3
DESIGNED: CMB		
CHECKED: GML		
PROJ. MGR. GML		
STATUS: ISSUED FOR PERMIT		REVISION: 4

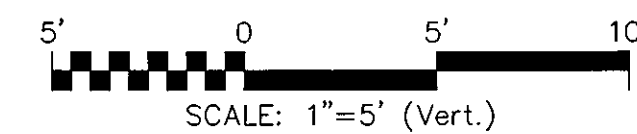
SWEETBRIAR RUN (PUBLIC)			
Number	Length	Radius	Line/Chord Direction
C9	154.079	1229.000	S79° 46' 46.87"E
L9	224.543		S83° 22' 16.52"E
L10	125.868		S76° 11' 17.22"E
L11	71.297		S76° 11' 17.22"E



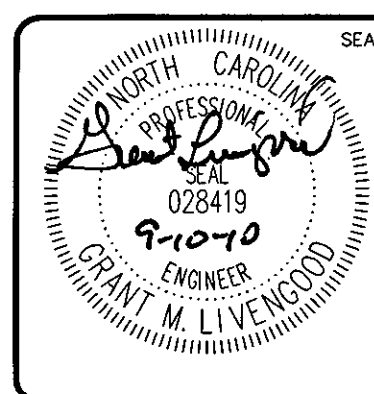
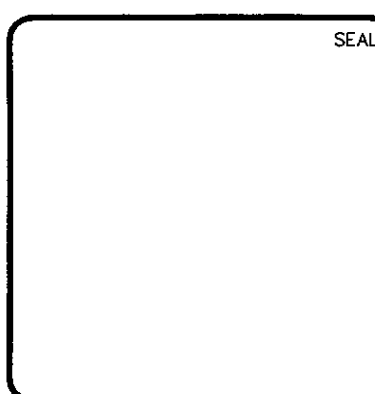
SWEETBRIAR RUN PLAN
 (40' PUBLIC R/W, STA. 10+00 TO 15+75)
 SCALE: 1"=50'



SWEETBRIAR RUN PROFILE
 SCALE: (Horiz.) 1"=50'



REV. NO.	DESCRIPTIONS	DATE
3	PRELIMINARY PLAT SUBMITTAL TO CHATHAM COUNTY PLANNING	09.10.2010
2	REVISED PER NCDOT PWS COMMENTS DATED 09/04/10	09.08.2010
1	SUBMITTAL TO CLIENT FOR REVIEW	08.06.2010



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 Raleigh, North Carolina 27606
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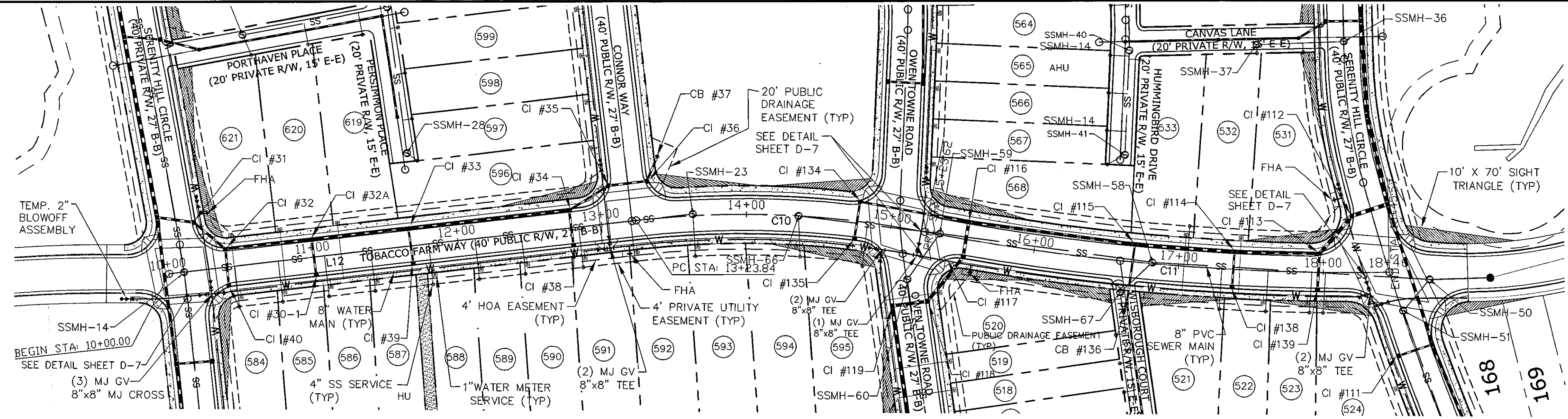
**BRIAR CHAPEL
 PHASE 5 NORTH
 CHATHAM COUNTY, NORTH CAROLINA**
**PLAN AND PROFILE
 SWEETBRIAR RUN
 STA. 10+00 TO STA. 15+75**

DATE:	AUGUST 3, 2010
MCE PROJ. #	02735-0069
DRAWN	CMB
DESIGNED	CMB
CHECKED	GML
PROJ. MGR.	GML
STATUS:	ISSUED FOR PERMIT

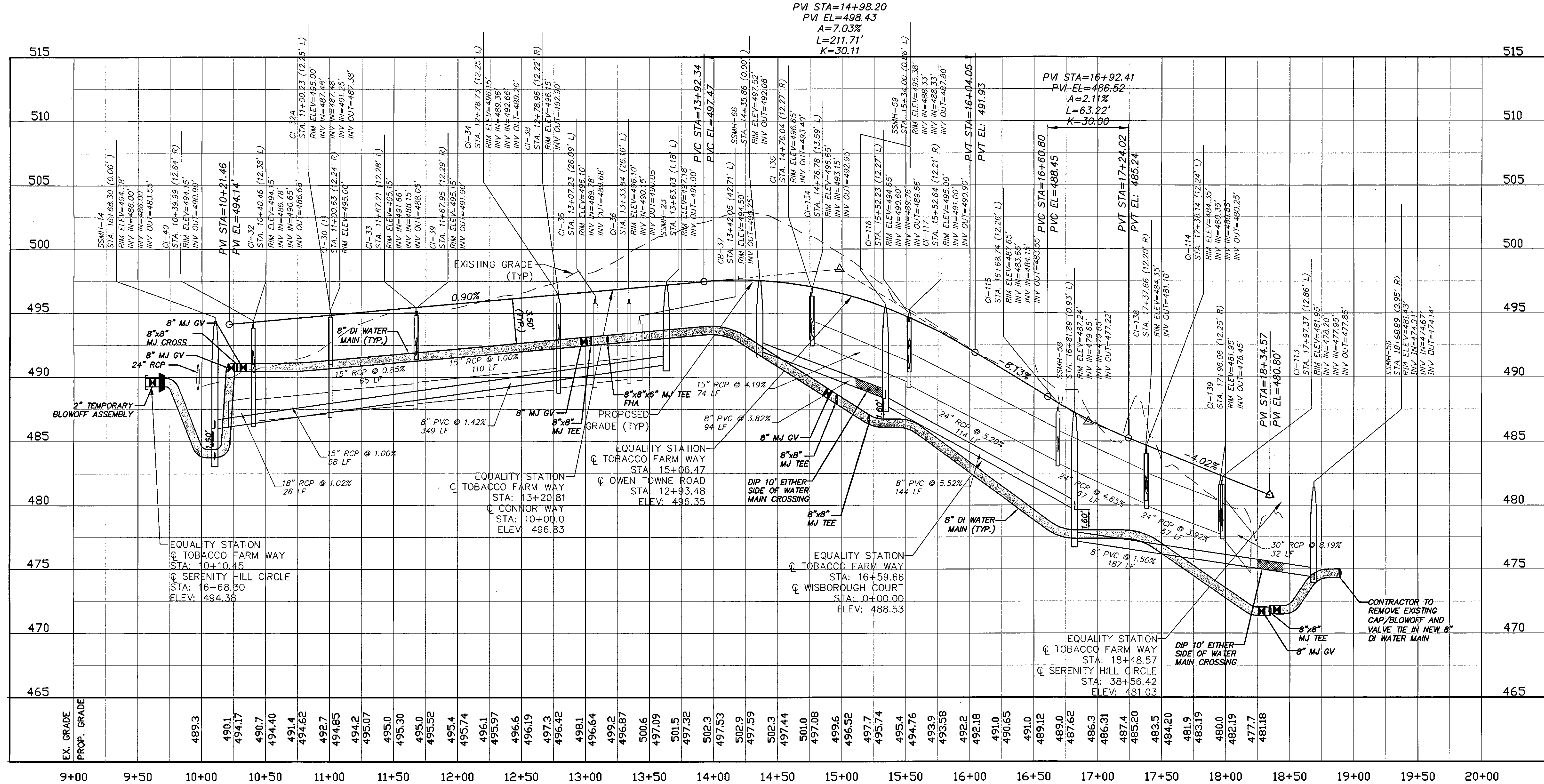
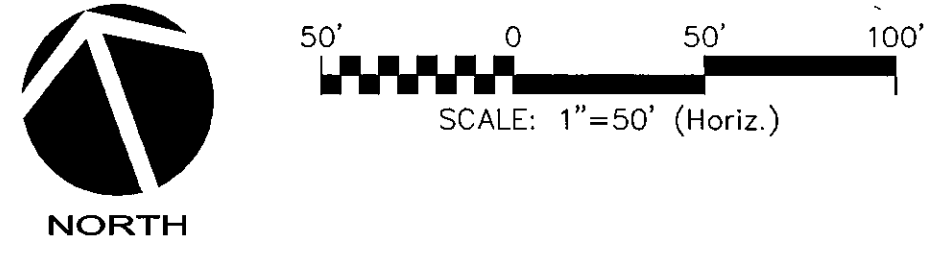
SCALE	HORIZONTAL: 1" = 50'
	VERTICAL: 1" = 5'

MAC FILE NUMBER	CT702
DRAWING NUMBER	PP-4
REVISION	3

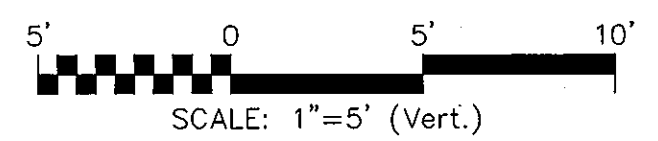
TOBACCO FARM WAY (PUBLIC)			
Number	Length	Radius	Line/Chord Direction
C10	199.788	650.000	S67° 40' 04.02"E
C11	321.014	1500.000	S64° 59' 35.90"E
L12	323.835		S76° 28' 23.42"E



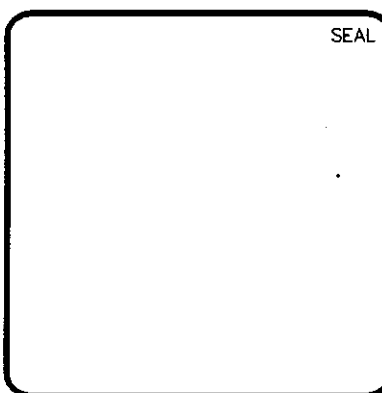
TOBACCO FARM WAY PLAN
(40' PUBLIC R/W, STA. 10+00 TO 18+45)



TOBACCO FARM WAY PROFILE
SCALE: (Horiz.) 1"=50'



REV. NO.	DESCRIPTION	DATE
4	PRELIMINARY PLAN SUBMITTAL TO CHATHAM COUNTY PLANNING	09.10.2010
3	REVISED PER HAZARD PMS COMMENTS DATED 09/24/10	09.08.2010
2	REVISED PER CHATHAM COUNTY PUBLIC UTILITIES COMMENTS	09.09.2010
1	SUBMITTAL TO NCDDOT FOR REVIEW	08.06.2010



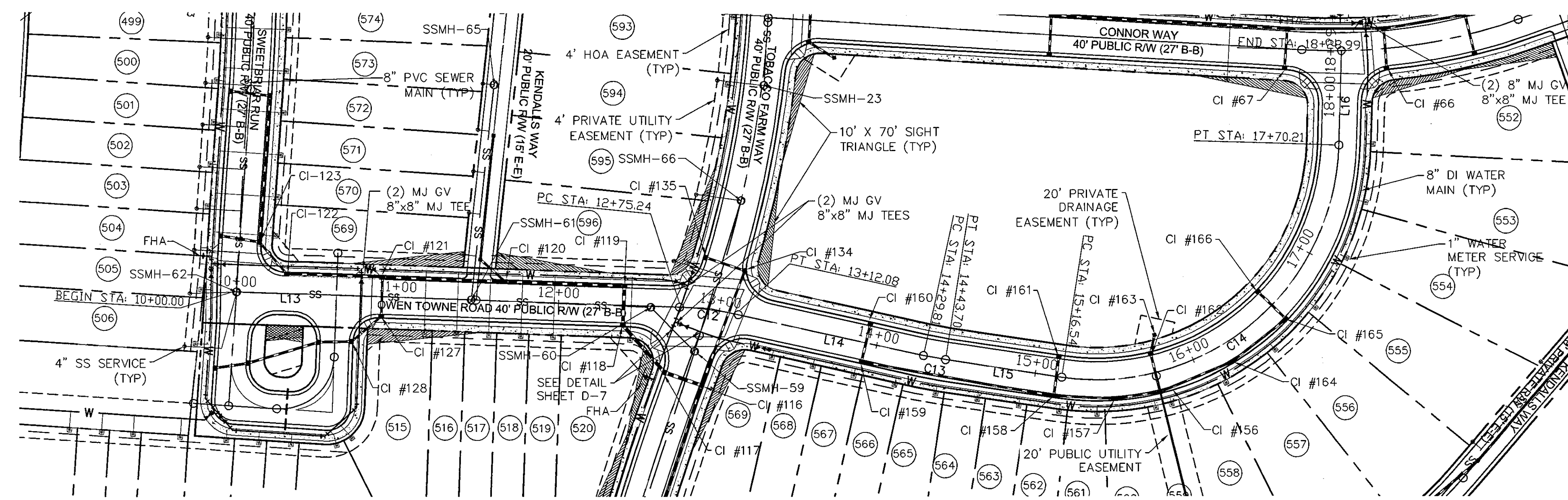
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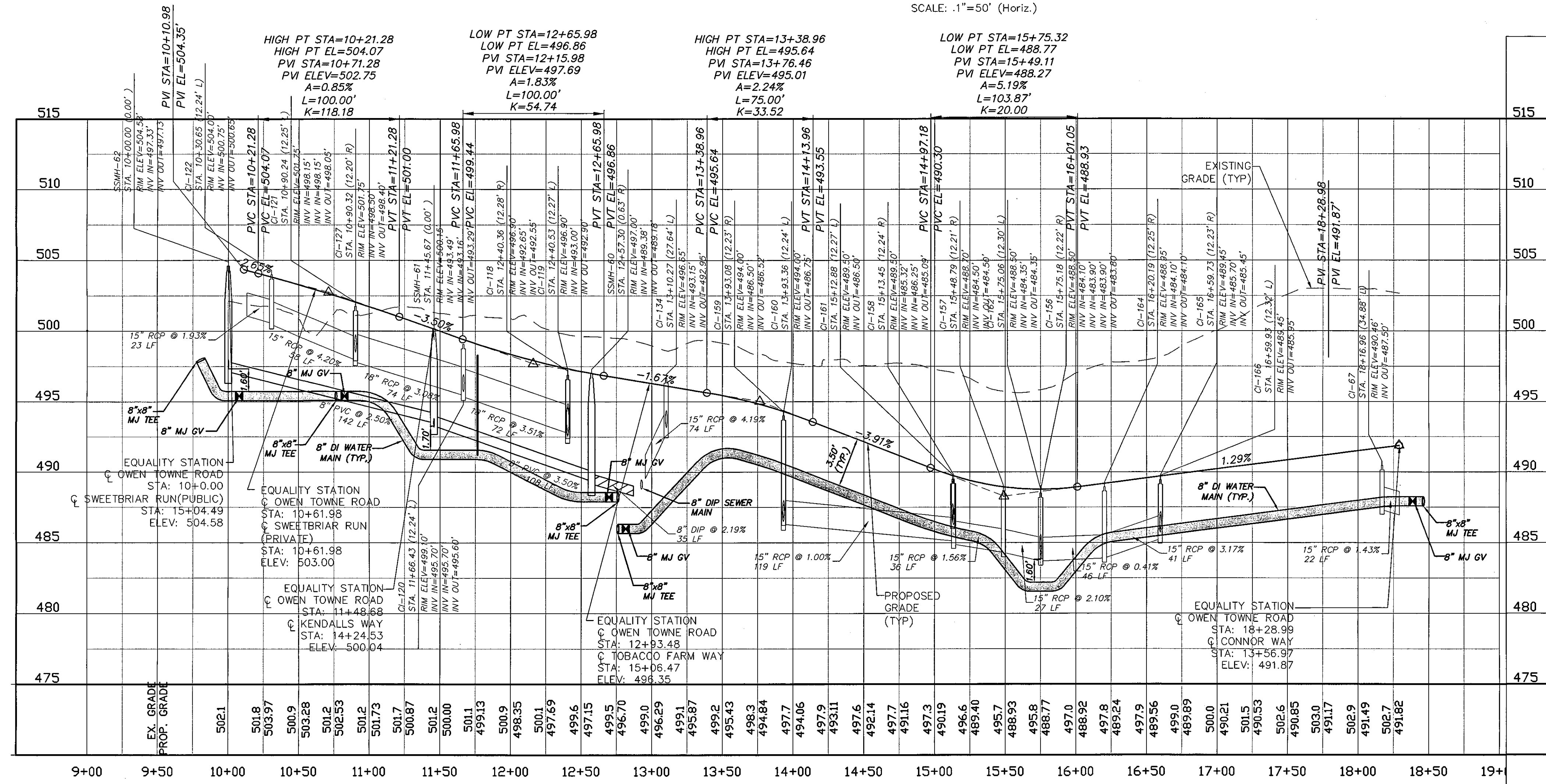
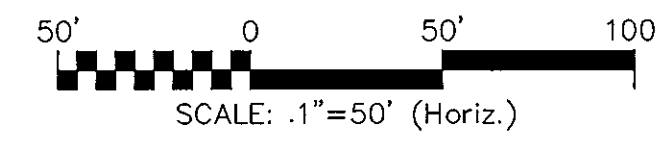
**BRIAR CHAPEL
PHASE 5 NORTH
CHATHAM COUNTY, NORTH CAROLINA**
PLAN AND PROFILE
TOBACCO FARM WAY
STA. 10+00 TO STA. 18+45

DATE: AUGUST 6, 2010	SCALE: 1"=50'	MAC FILE NUMBER: CT703
MCE PROJ. # 02735-0069	HORIZONTAL: 1"=50'	DRAWING NUMBER: PP-5
DRAWN: CMB	VERTICAL: 1"=5'	
DESIGNED: CMB		
CHECKED: GML		
PROJ. MGR.: GML		
STATUS: ISSUED FOR PERMIT		REVISION: 4

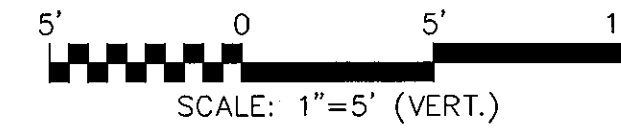
OWEN TOWNE ROAD (PUBLIC)				
Number	Length	Radius	Line/Chord Direction	
C12	13.889	200.000	N20° 36' 07.42"E	
C13	253.672	150.000	N29° 50' 08.61"W	
C14	36.847	200.000	N17° 18' 48.91"E	
L13	275.237		N12° 02' 08.17"E	
L14	117.724		N22° 35' 29.65"E	
L15	72.839		N18° 36' 43.30"E	
L16	58.780		N78° 17' 00.52"W	



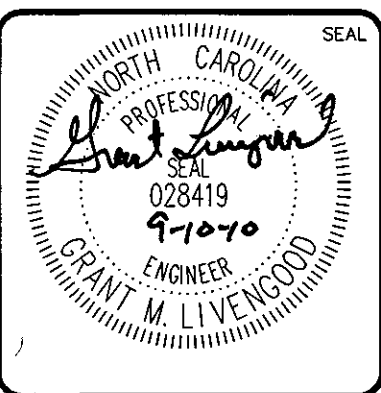
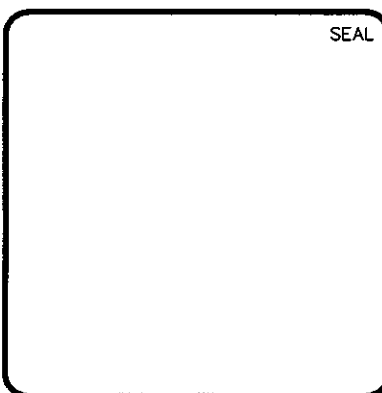
OWEN TOWNE ROAD PLAN
(40' PUBLIC R/W, STA. 10+00 TO 18+29)



OWEN TOWNE ROAD PROFILE
SCALE: (Horiz.) 1"=50'



REV. NO.	DESCRIPTIONS	DATE
3	PRELIMINARY PLAN SUBMITTAL TO CHATHAM COUNTY PLANNING	08.10.2010
2	REVISED PER NCCCR PWS COMMENTS DATED 09/04/10	09.08.2010
1	SUBMITTAL TO CLIENT FOR REVIEW	08.08.2010



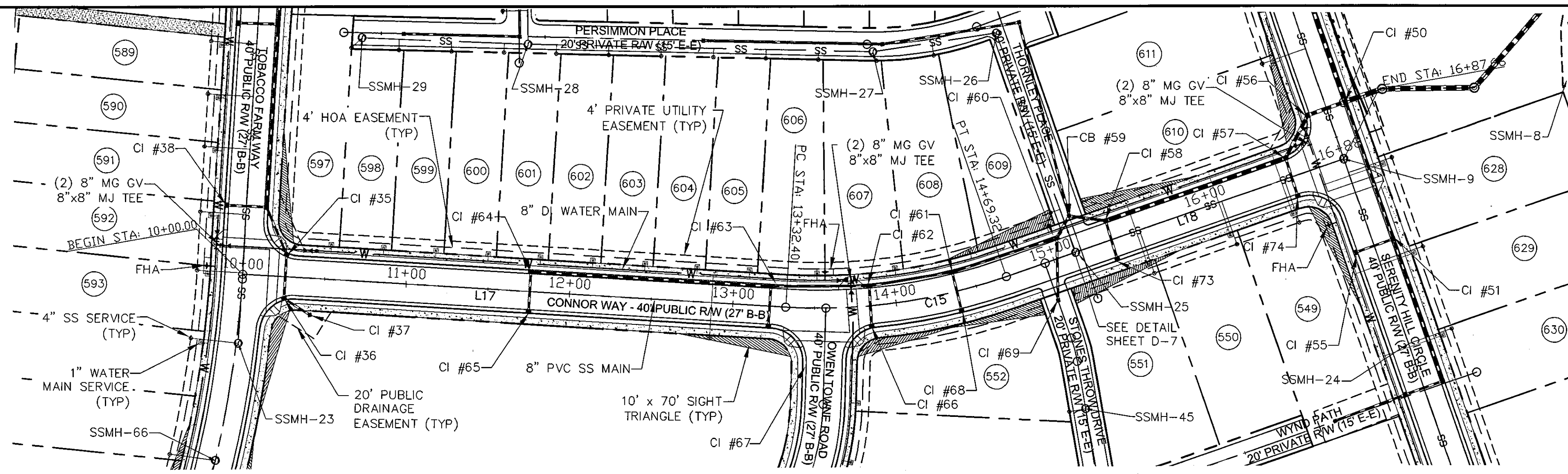
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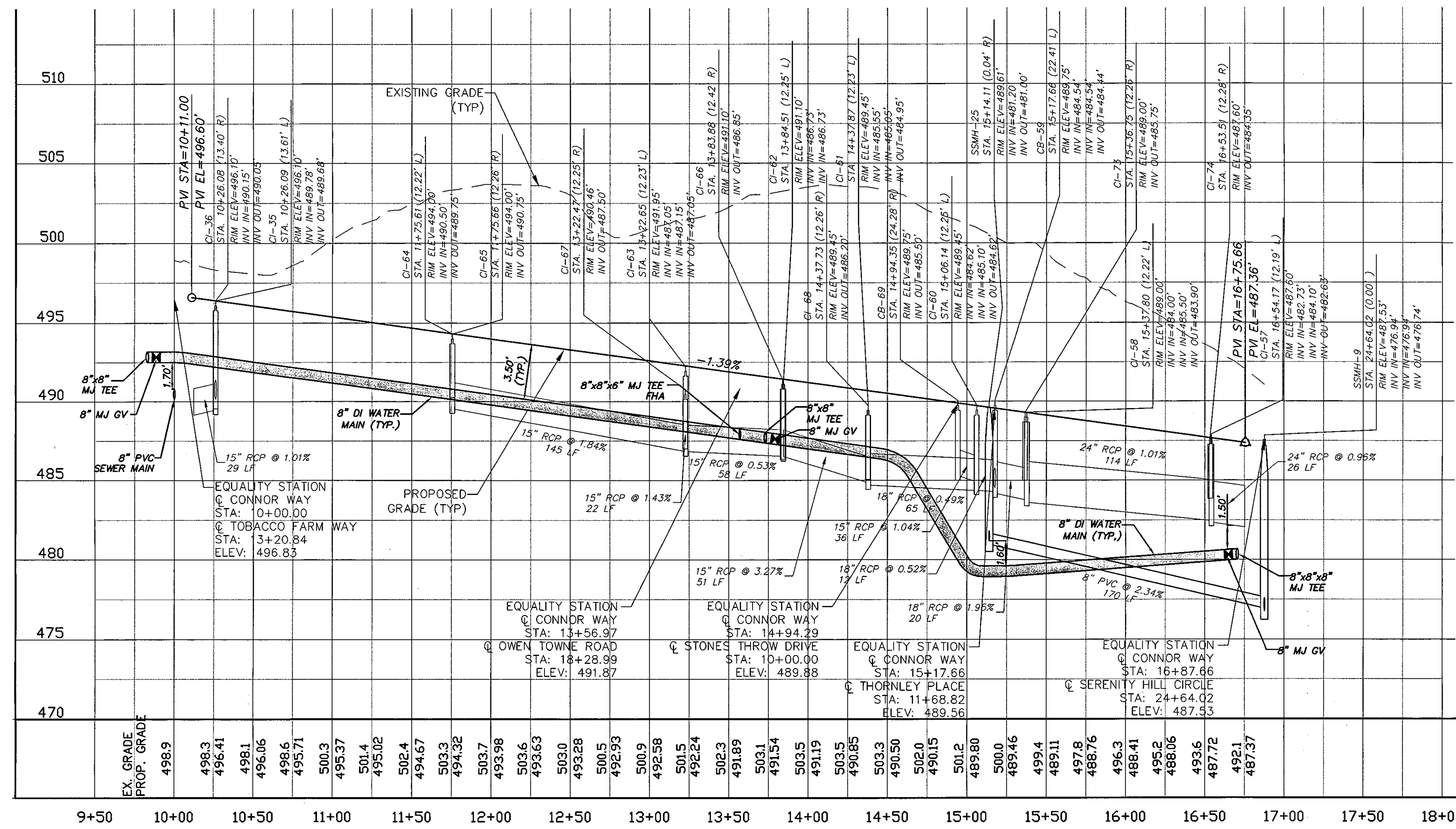
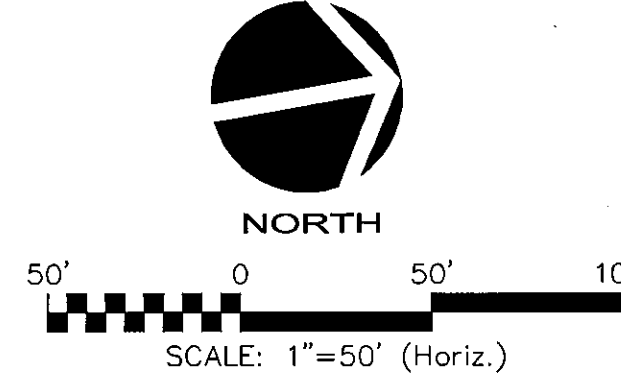
**BRIAR CHAPEL
PHASE 5 NORTH
CHATHAM COUNTY, NORTH CAROLINA**
PLAN AND PROFILE
OWEN TOWNE ROAD
STA. 10+00 TO STA. 18+29

DATE: AUGUST 6, 2010	SCALE: 1" = 50'	MAC FILE NUMBER: CT704
MCE PROJ. # 02735-0069	HORIZONTAL: 1" = 50'	DRAWING NUMBER: PP-6
DRAWN: CMB	VERTICAL: 1" = 5'	
DESIGNED: CMB		
CHECKED: GML		
PROJ. MGR: GML		
STATUS: ISSUED FOR PERMIT	REVISION: 3	

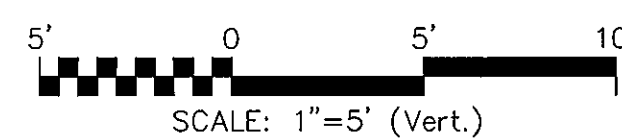
CONNOR WAY (PUBLIC)			
Number	Length	Radius	Line/Chord Direction
C15	136.920	345.000	N2° 09' 26.41"E
L17	332.402		N13° 31' 36.58"E
L18	218.334		N9° 12' 43.76"W



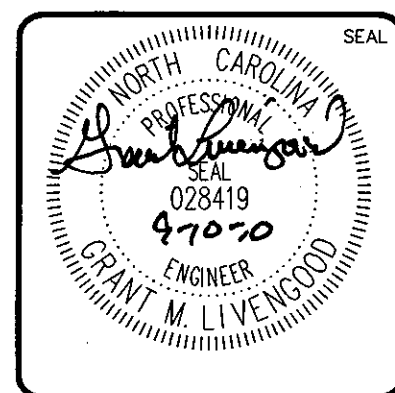
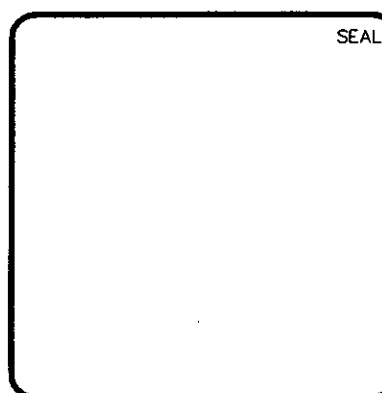
CONNOR WAY PLAN
(40' PUBLIC R/W, STA. 10+00 TO 16+88)



CONNOR WAY PROFILE
SCALE: (Horiz.) 1"=50'



REV. NO.	DESCRIPTIONS	DATE
3	PRELIMINARY PLAN SUBMITTAL TO CHATHAM COUNTY PLANNING	09.10.2010
2	REVISED PER NCEMHR PWS COMMENTS DATED 09/04/10	09.08.2010
1	SUBMITTAL TO CLIENT FOR REVIEW	08.02.2010



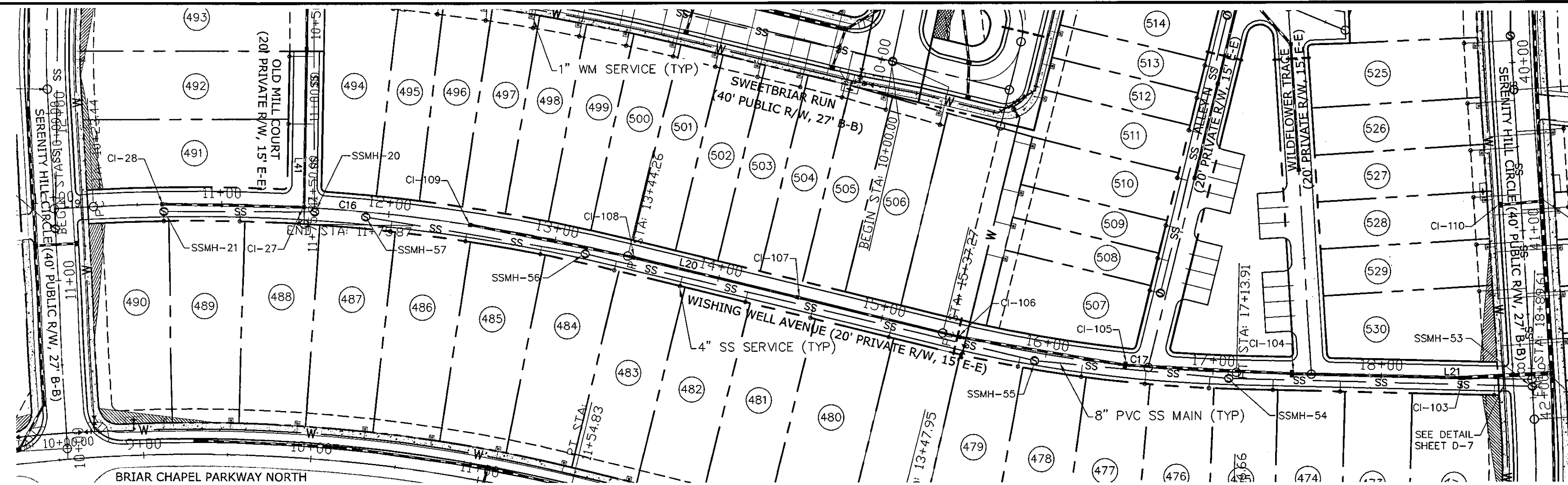
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BRIAR CHAPEL
PHASE 5 NORTH
CHATHAM COUNTY, NORTH CAROLINA
PLAN AND PROFILE
CONNOR WAY
STA. 10+00 TO STA. 16+88

DATE:	AUGUST 6, 2010
MCE PROJ. #	02735-0069
DRAWN:	CMB
DESIGNED:	CMB
CHECKED:	GML
PROJ. MGR.	GML
STATUS:	ISSUED FOR PERMIT

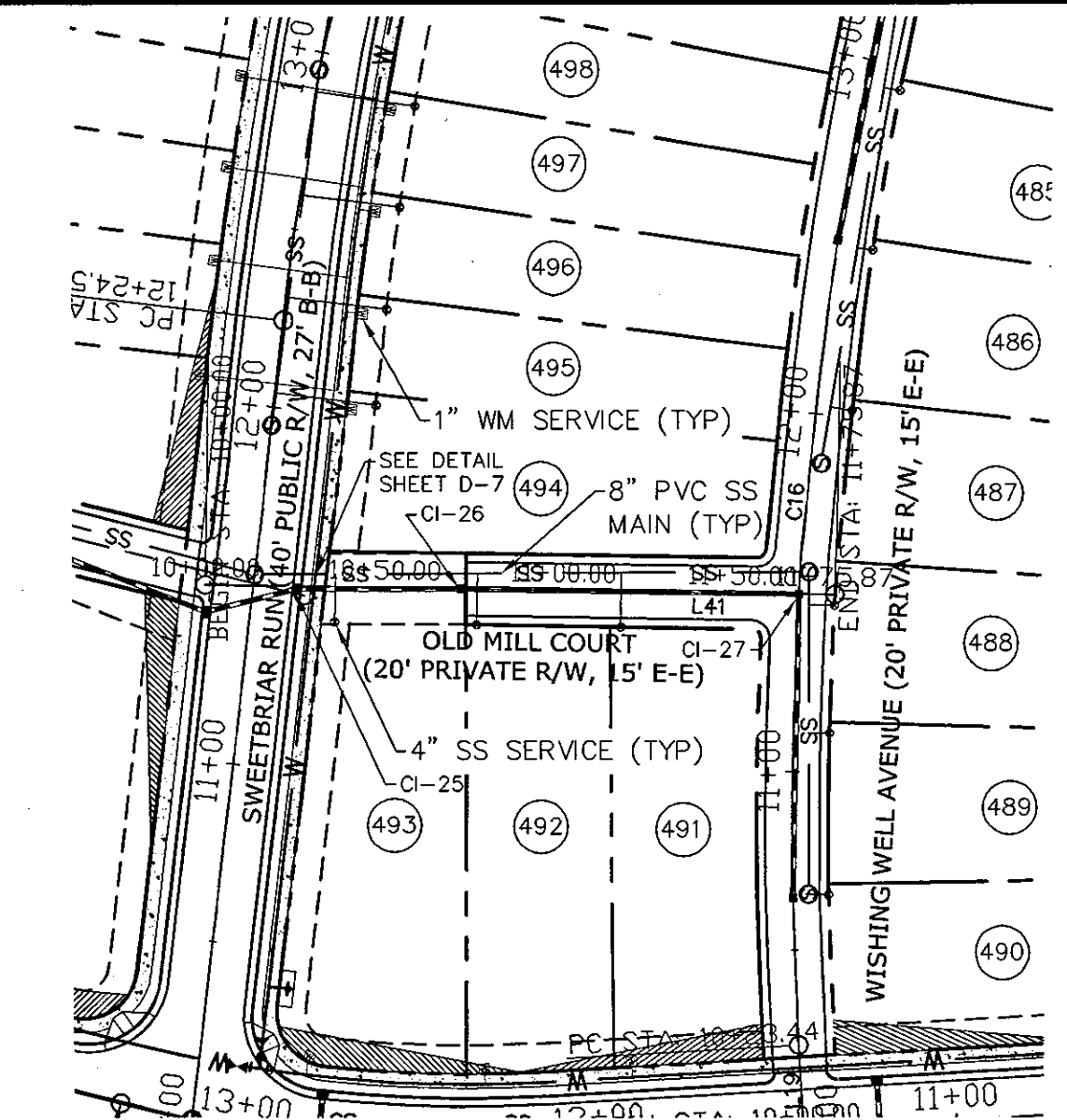
SCALE	MAC FILE NUMBER
HORIZONTAL: 1" = 50'	CT705
VERTICAL: 1" = 5'	PP-7
REVISION	3



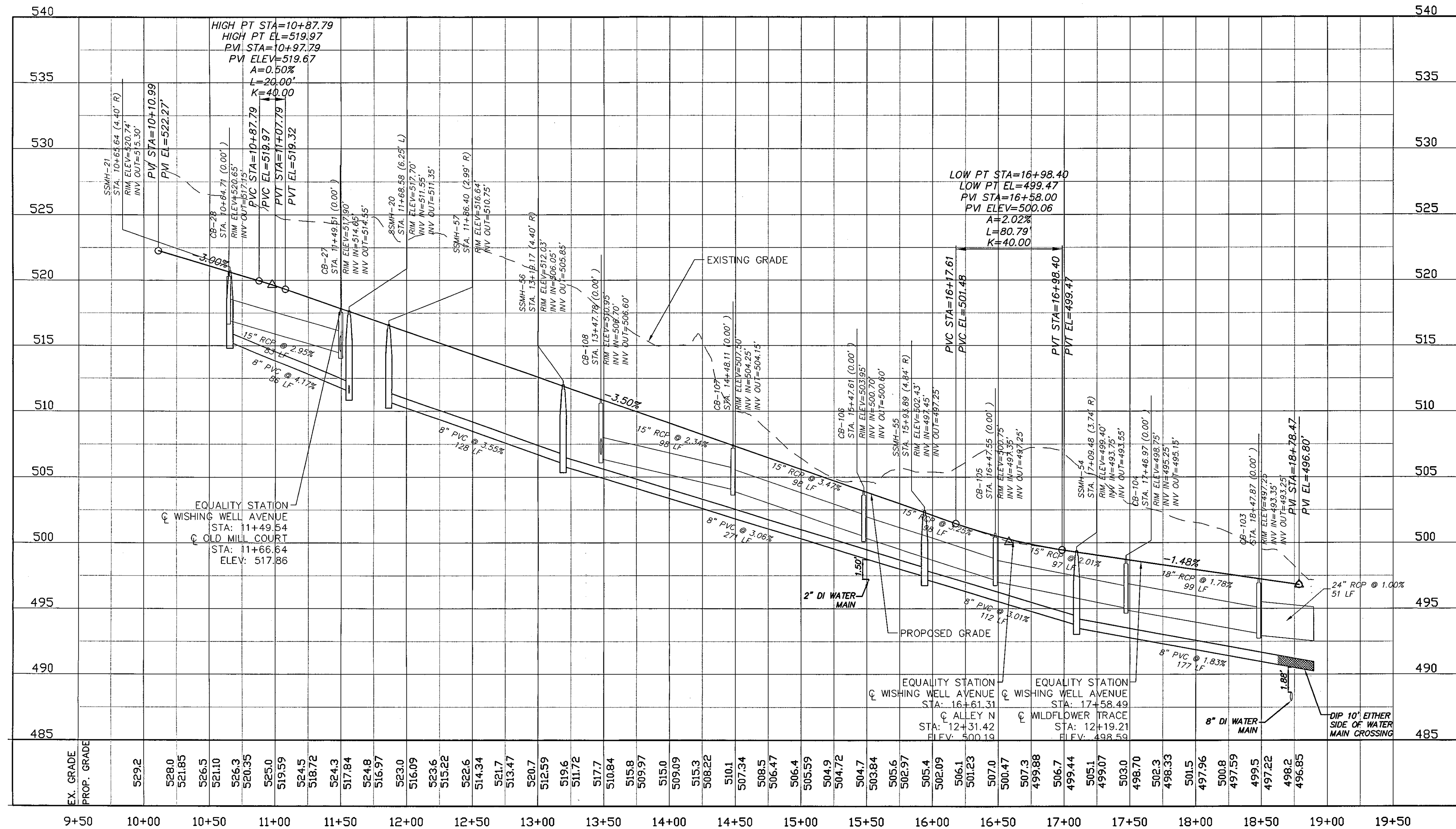
WISHING WELL AVENUE PLAN
 (20' PRIVATE R/W, STA. 10+00 TO 18+90)
 SCALE: 1"=50'



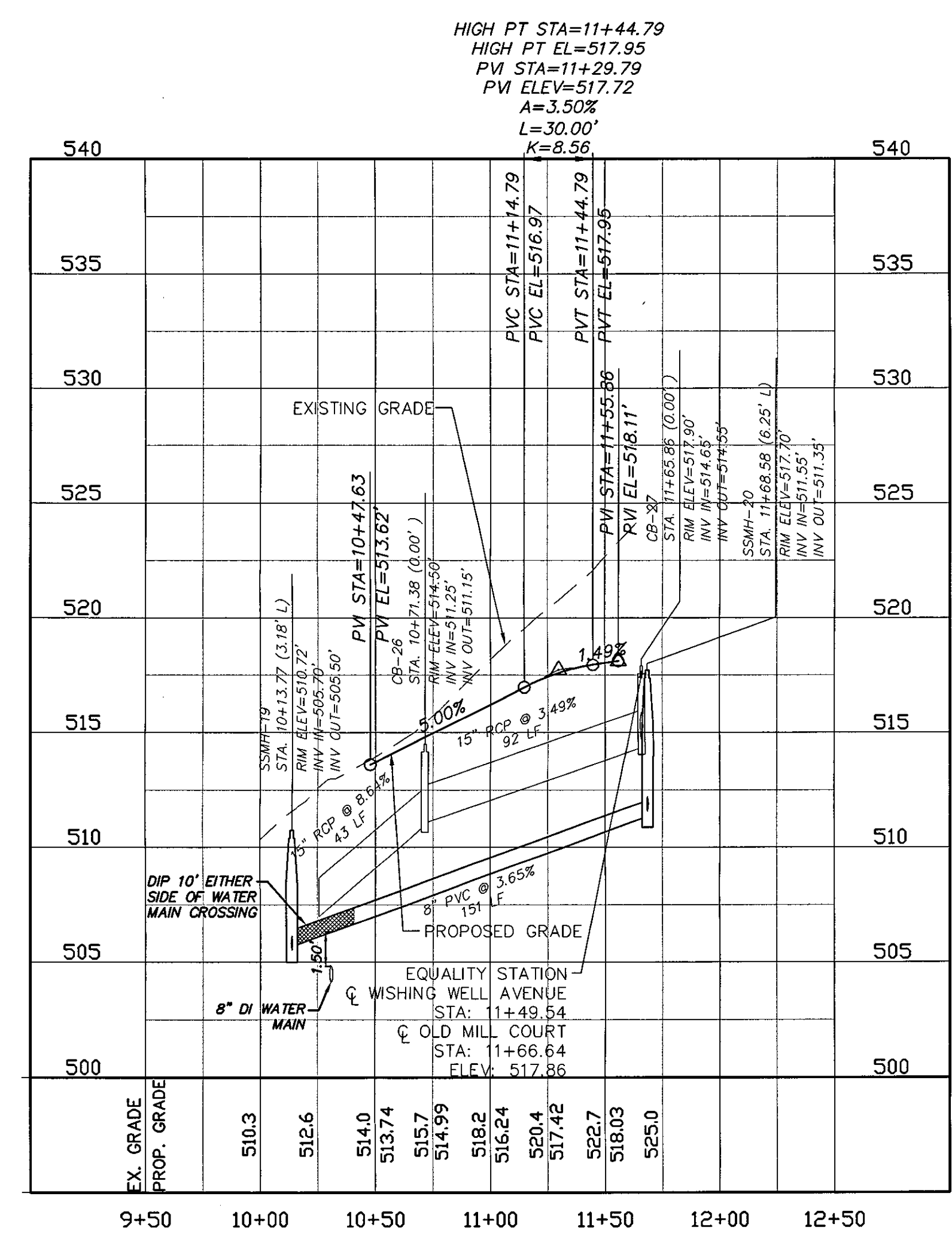
WISHING WELL AVENUE			
Number	Length	Radius	Line/Chord Direction
C16	320.814	1079.172	S84° 42' 16.23"E
C17	176.649	821.000	S82° 21' 07.46"E
L19	23.441		N86° 46' 44.75"E
L20	193.010		S76° 11' 17.22"E
L21	175.698		S88° 30' 57.71"E
OLD MILL COURT			
L41	175.868		S0° 54' 37.44"W



OLD MILL COURT PLAN
 (20' PRIVATE R/W, STA. 10+00 TO 11+76)
 SCALE: 1"=50'

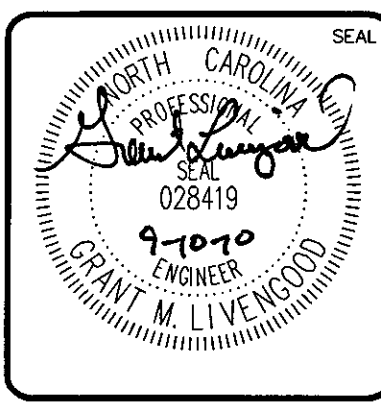
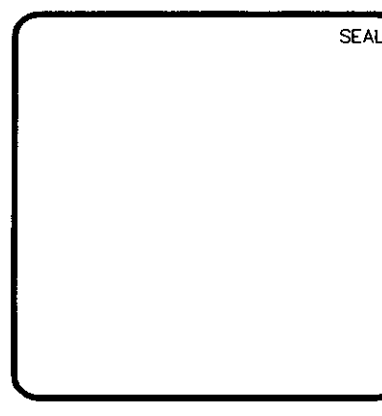


WISHING WELL AVENUE PROFILE
 SCALE: (H) 1"=50'
 (V) 1"=5'



OLD MILL COURT PROFILE
 SCALE: (H) 1"=50'
 (V) 1"=5'

REV.	DESCRIPTION	DATE
3	PRELIMINARY PLAN SUBMITTAL TO CHATHAM COUNTY PLANNING	09.10.2010
2	REVISED PER NCDNR PWS COMMENTS DATED 09/24/10	09.08.2010
1	SUBMITTAL TO CLIENT FOR REVIEW	08.08.2010

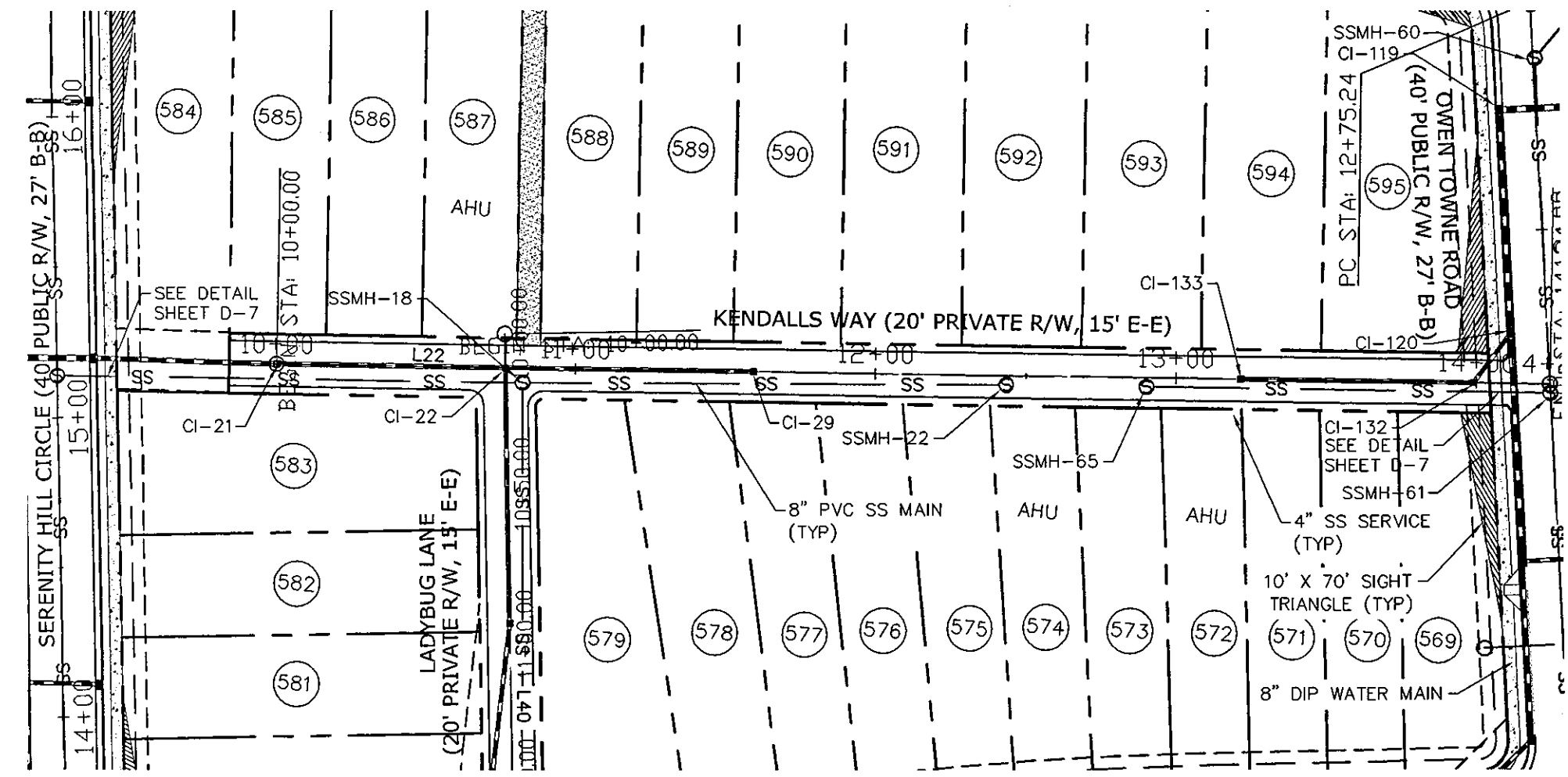


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**BRIAR CHAPEL
 PHASE 5 NORTH
 CHATHAM COUNTY, NORTH CAROLINA**
PLAN AND PROFILE
 WISHING WELL AVENUE: STA. 10+00 TO 18+90
 OLD MILL COURT: STA. 10+00 TO 11+76

DATE: AUGUST 6, 2010	SCALE: CT706
MCE PROJ # 02735-0069	HORIZONTAL: 1" = 50'
DRAWN: CMB	VERTICAL: 1" = 5'
DESIGNED: CMB	PP-8
CHECKED: GML	
PROJ. MGR: GML	
STATUS: ISSUED FOR PERMIT	REVISION: 3

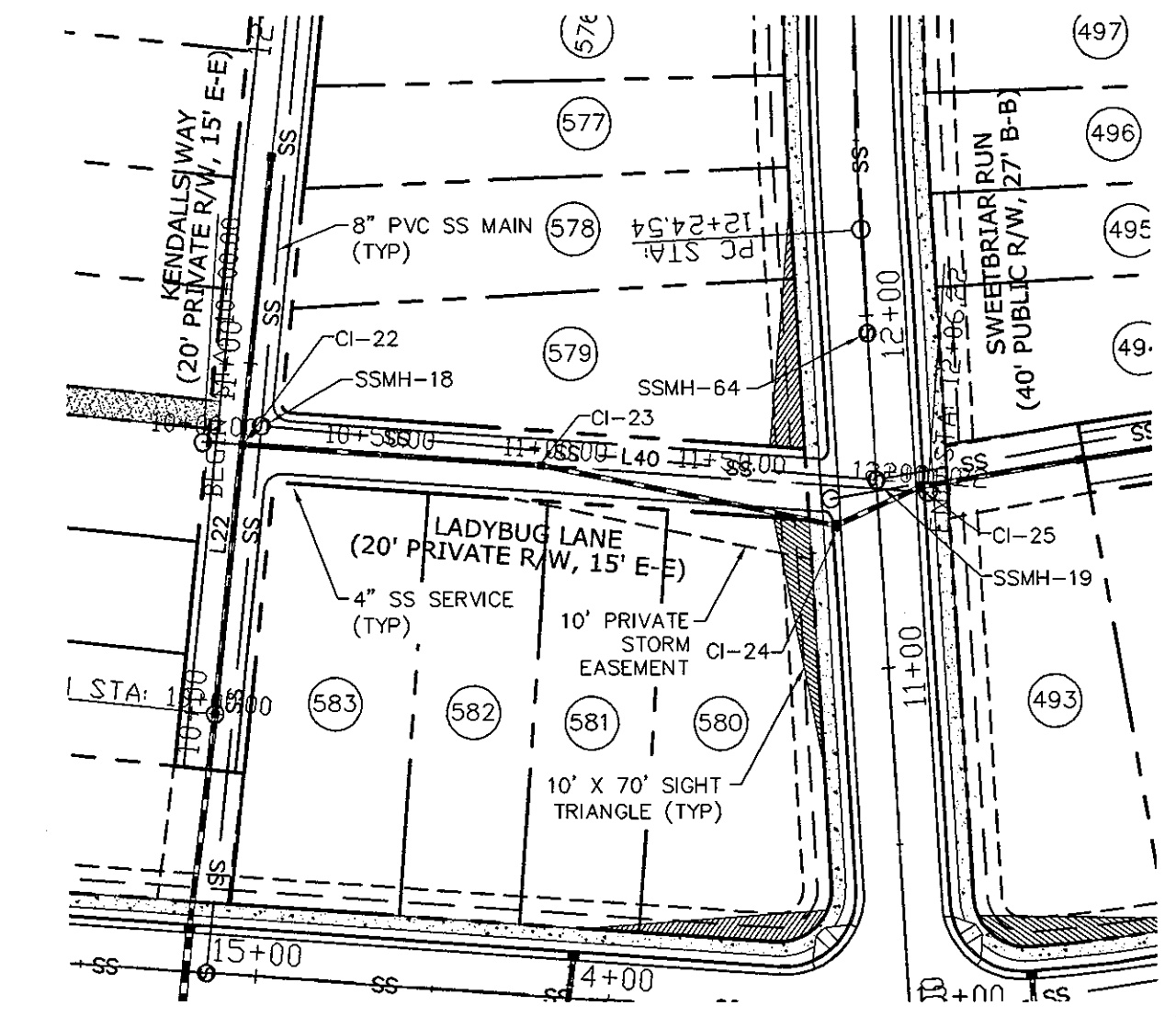


KENDALLS WAY PLAN
 (20' PRIVATE R/W, STA. 10+00 TO 14+25)
 SCALE: 1"=50'

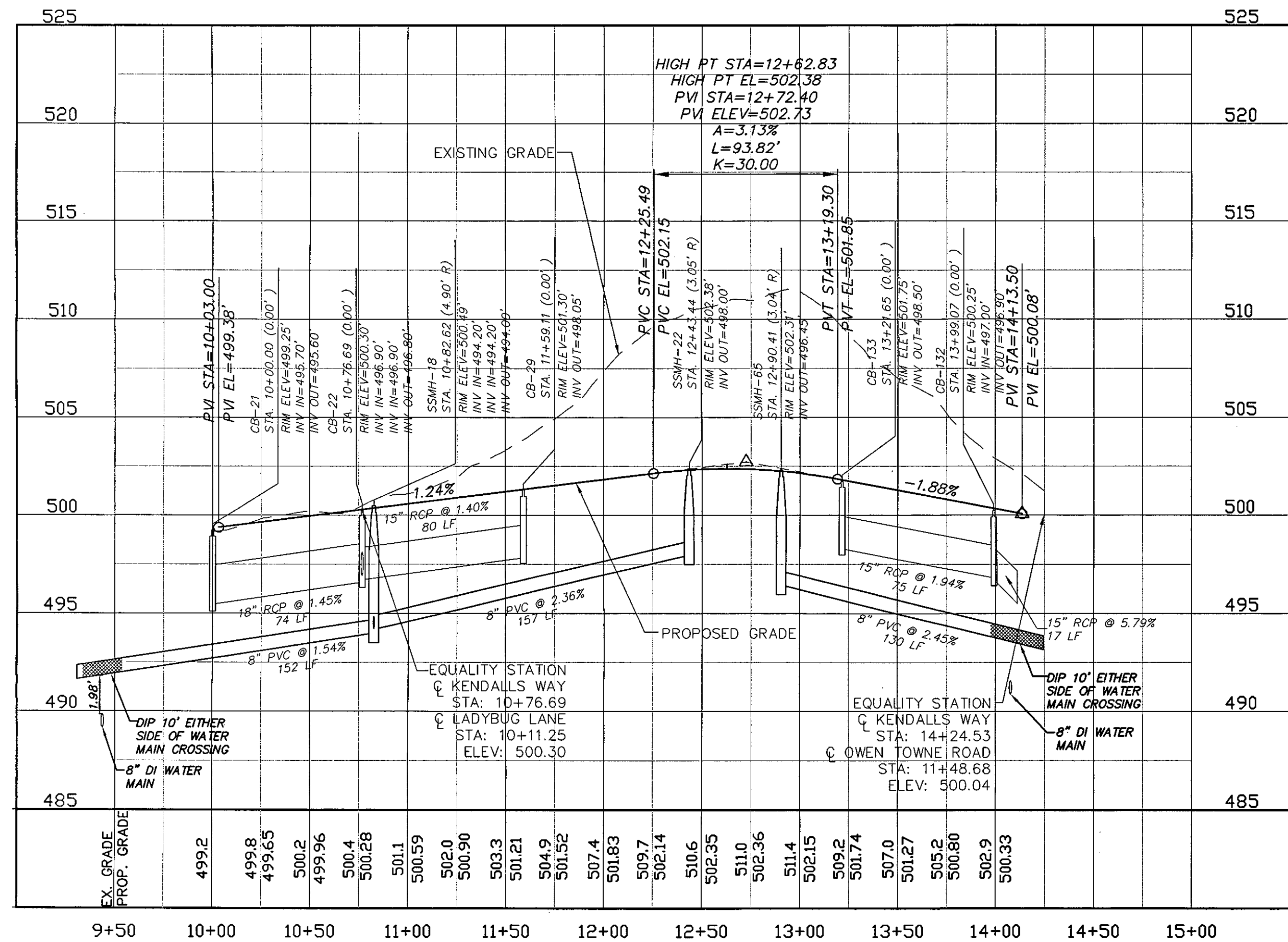


KENDALLS WAY (PRIVATE)			
Number	Length	Radius	Line/Chord Direction
L22	440.233		S74° 02' 50.55"E

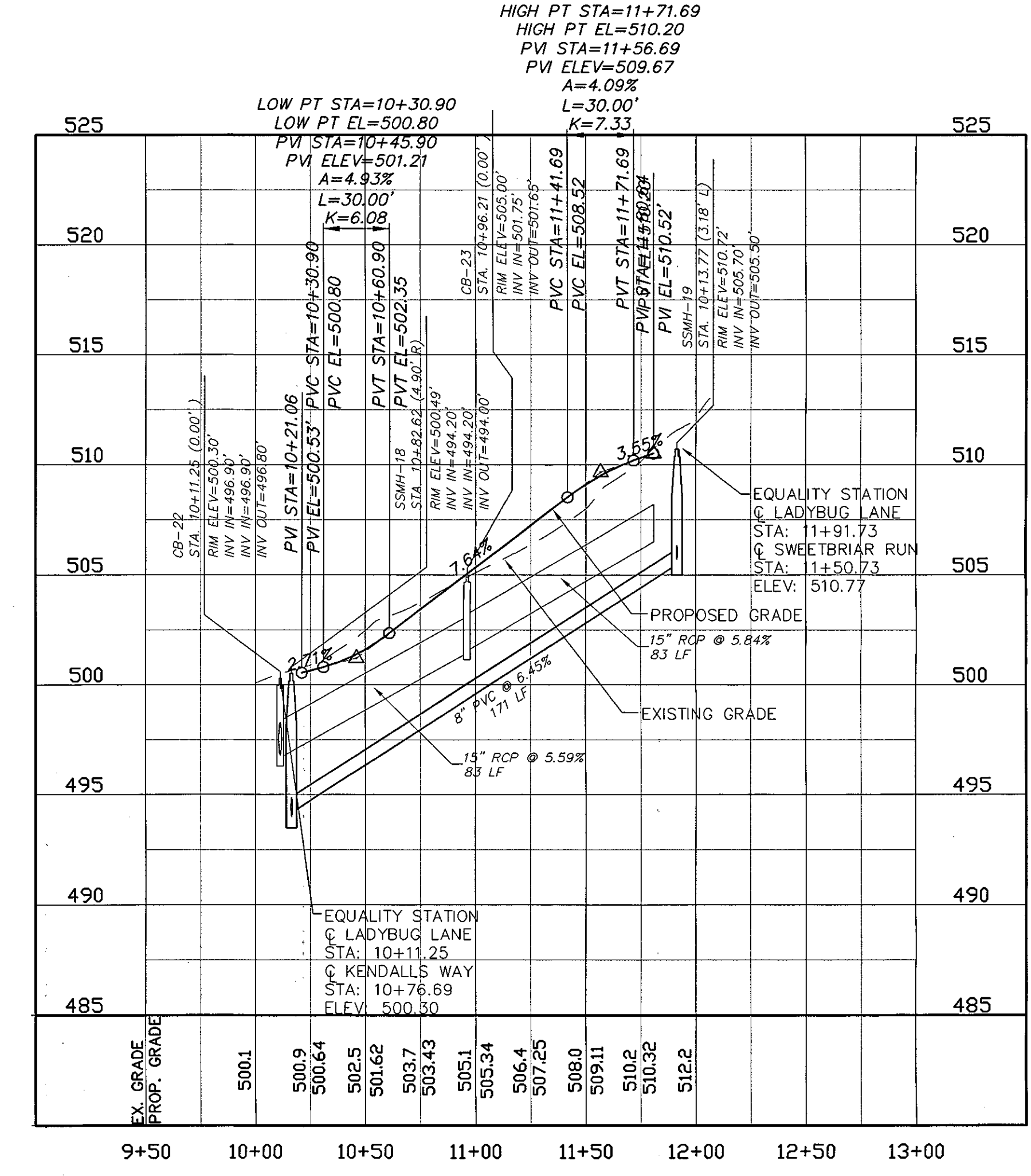
LADYBUG LANE (PRIVATE)			
Number	Length	Radius	Line/Chord Direction
L40	180.479		S13° 59' 36.27"W



LADYBUG LANE PLAN
 (20' PRIVATE R/W, STA. 10+00 TO 12+00)
 SCALE: 1"=50'

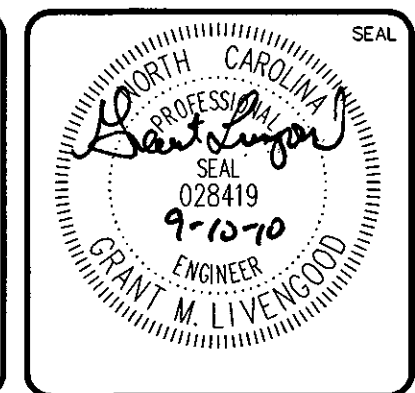
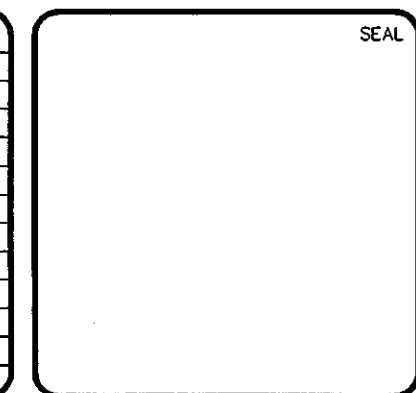


KENDALLS WAY PROFILE
 SCALE: (H) 1"=50'
 (V) 1"=5'



LADYBUG LANE PROFILE
 SCALE: (H) 1"=50'
 (V) 1"=5'

REV. NO.	DESCRIPTIONS	DATE
3	PRELIMINARY PLAT SUBMITTAL TO CHATHAM COUNTY PLANNING	09.10.2010
2	REVISED PER MCDERMIS COMMENTS DATED 09/04/10	09.08.2010
1	SUBMITTAL TO CLIENT FOR REVIEW	08.06.2010



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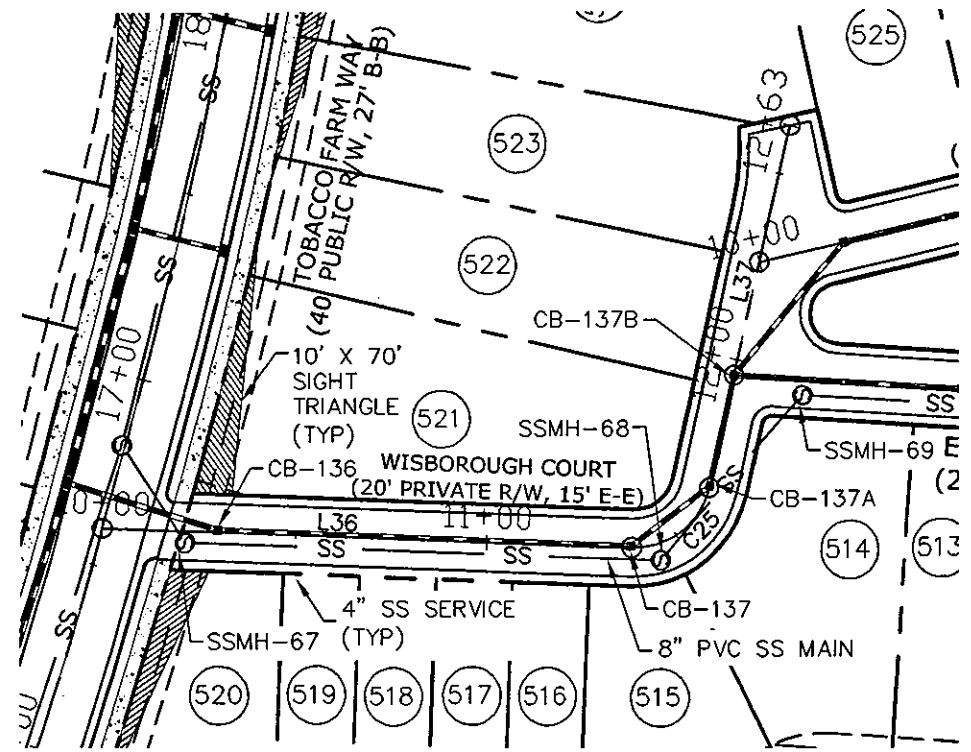
**BRIAR CHAPEL
 PHASE 5 NORTH
 CHATHAM COUNTY, NORTH CAROLINA**
PLAN AND PROFILE
 KENDALLS WAY: STA. 10+00 TO STA. 14+25
 LADYBUG LANE: STA. 10+00 TO STA. 12+00

DATE: AUGUST 6, 2010	SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'	M&C FILE NUMBER: CT707
M&C PROJ. # 02735-0069	DRAWN: CMB	DRAWING NUMBER: PP-9
DESIGNED: CMB	CHECKED: GML	REVISION: 3
PROJ. MGR. GML	ISSUED FOR PERMIT	

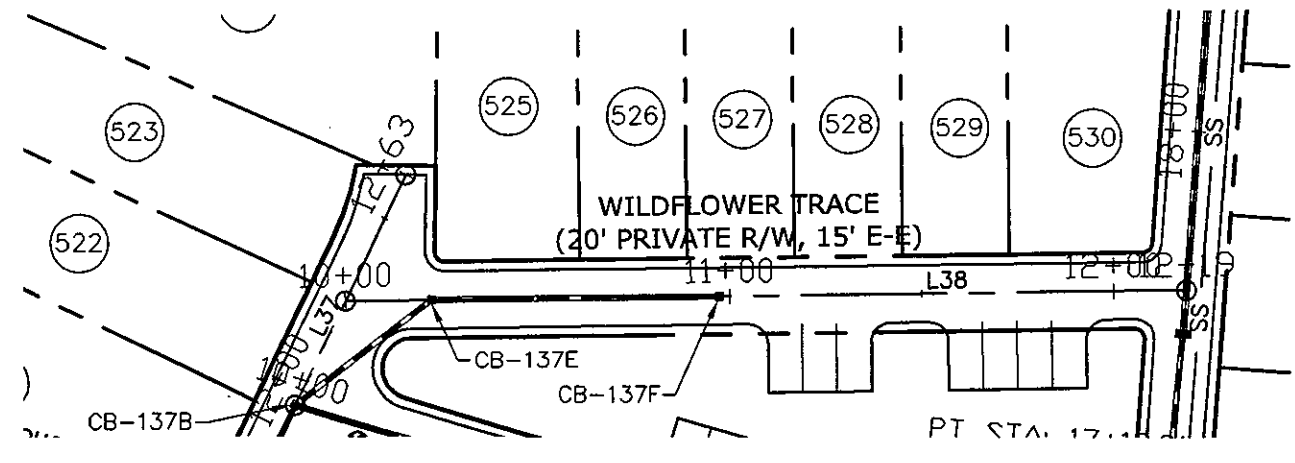
WISBOROUGH COURT (PRIVATE)			
Number	Length	Radius	Line/Chord Direction
L36	137.804		S12° 02' 8.17"W
C25	27.727	20.000	S27° 40' 50.19"E
L37	97.275		S67° 23' 48.55"E

WILDFLOWER TRACE (PRIVATE)			
Number	Length	Radius	Line/Chord Direction
L38	219.215		S3° 30' 23.00"E

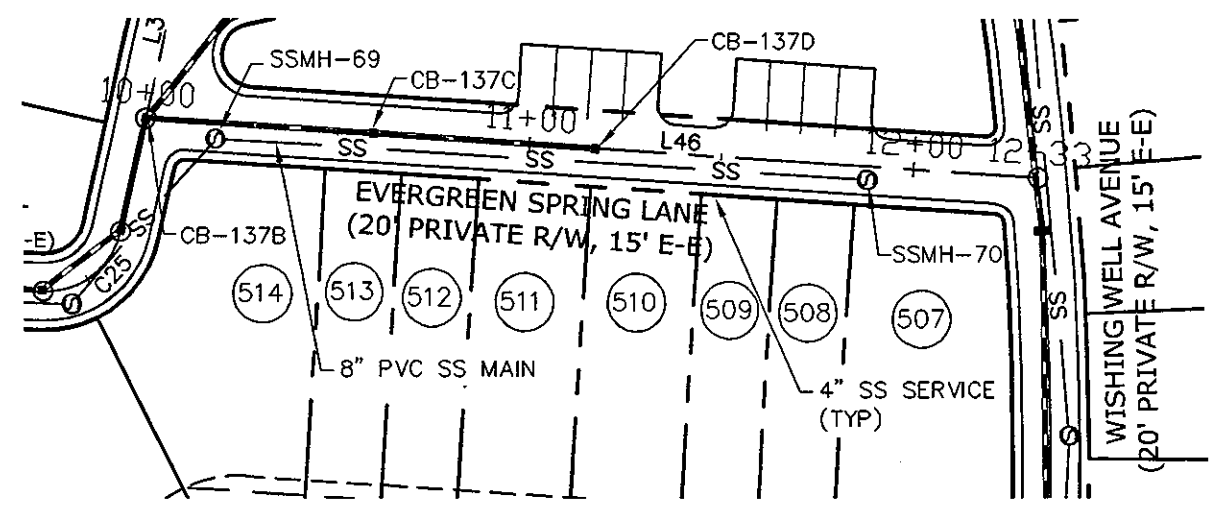
EVERGREEN SPRING LANE (PRIVATE)			
Number	Length	Radius	Line/Chord Direction
L-46	233.008		S13° 48' 43.00"W



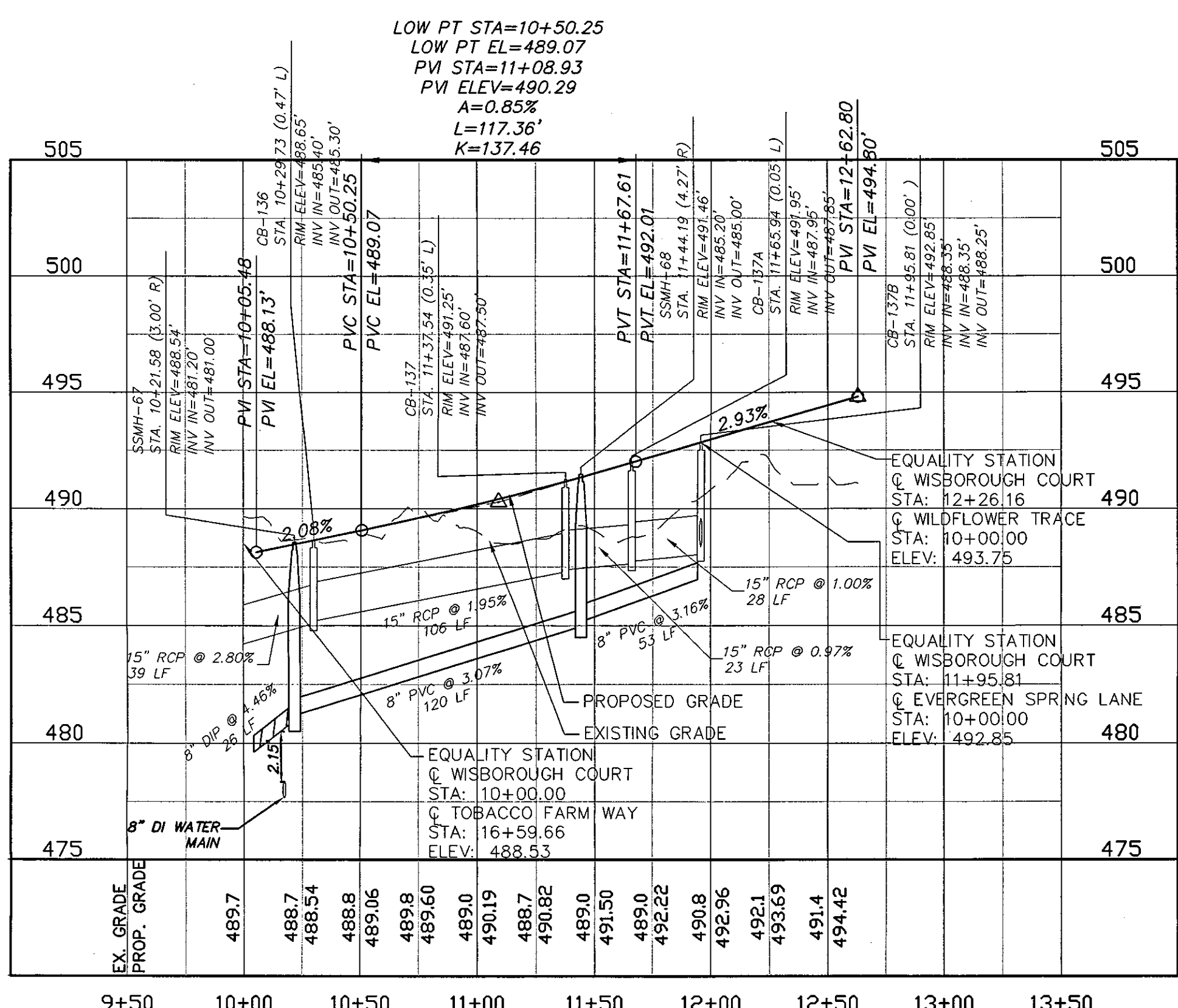
WISBOROUGH COURT PLAN
(20' PRIVATE R/W, STA. 10+00 TO 12+63)
SCALE: 1"=50'



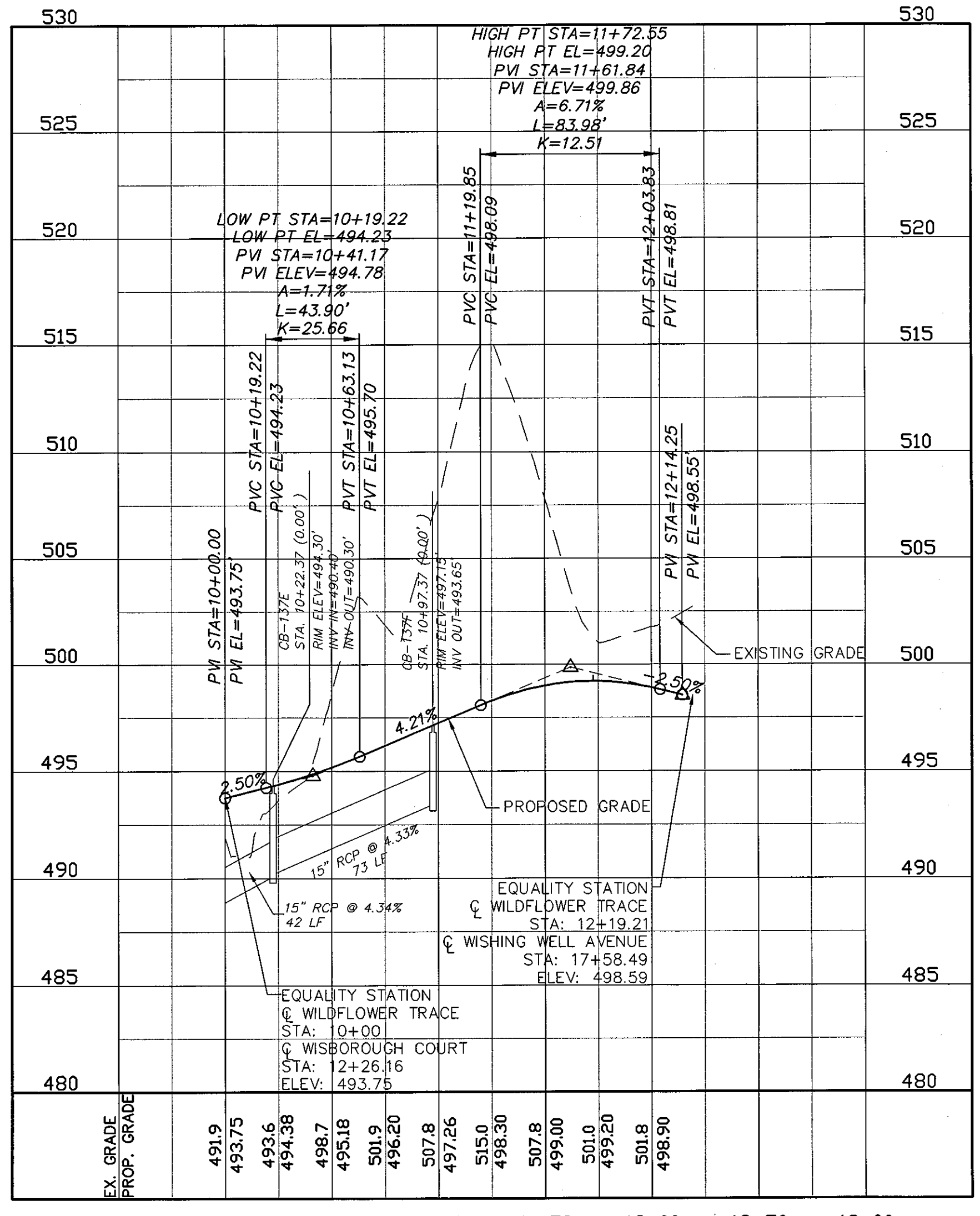
WILDFLOWER TRACE PLAN
(20' PRIVATE R/W, STA. 10+00 TO 12+19)
SCALE: 1"=50'



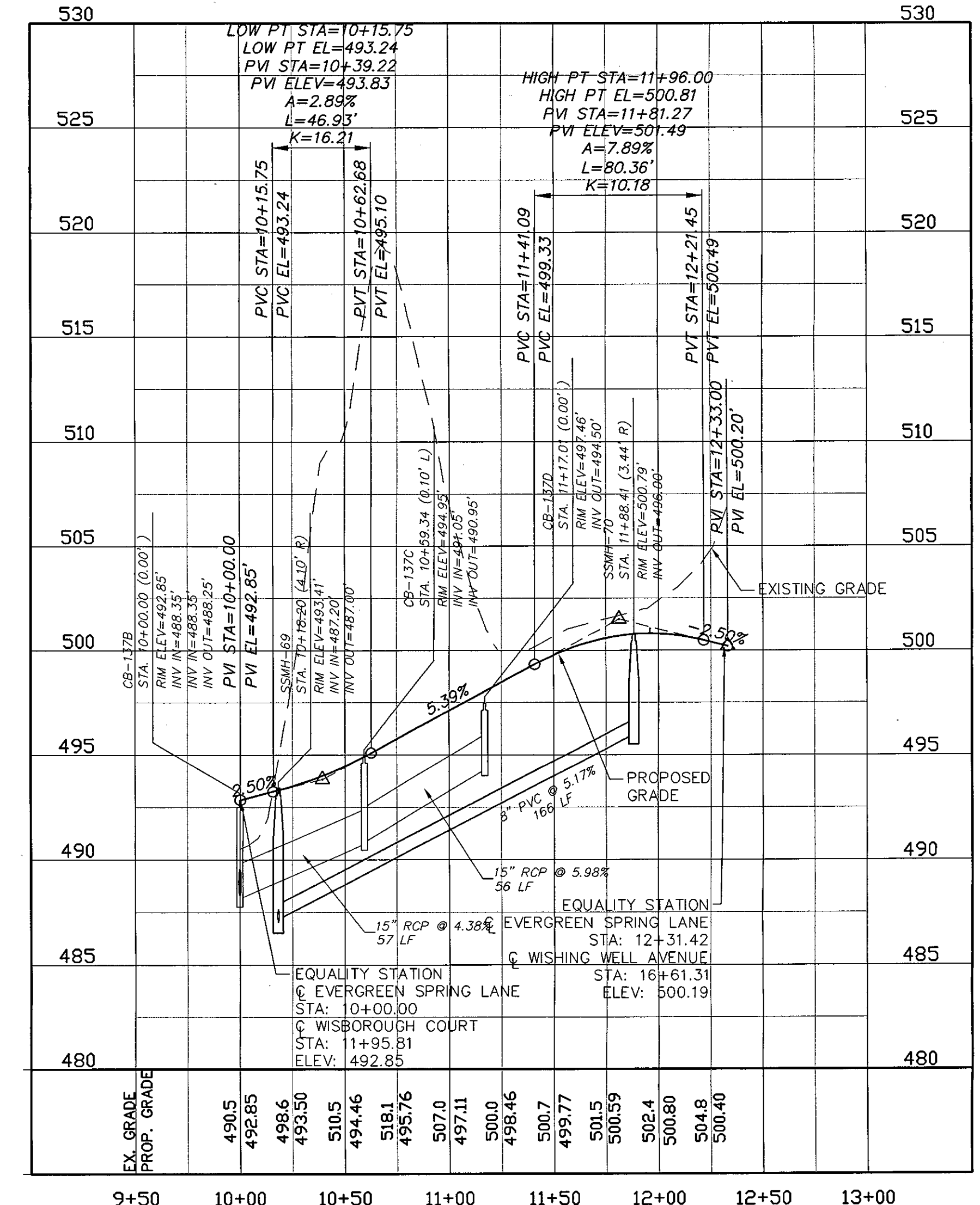
EVERGREEN SPRING LANE PLAN
(20' PRIVATE R/W, STA. 10+00 TO 12+33)
SCALE: 1"=50'



WISBOROUGH COURT PROFILE
SCALE: (H) 1"=50'
(V) 1"=5'

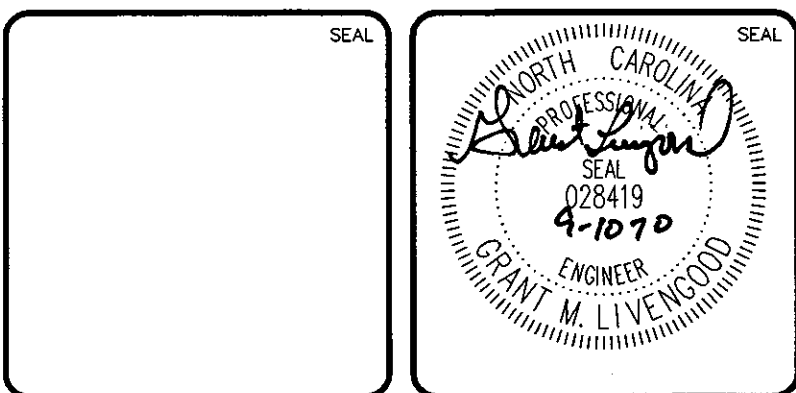


WILDFLOWER TRACE PROFILE
SCALE: (H) 1"=50'
(V) 1"=5'



EVERGREEN SPRING LANE PROFILE
SCALE: (H) 1"=50'
(V) 1"=5'

REV. NO.	DESCRIPTIONS	DATE
3	PRELIMINARY PLAN SUBMITTAL TO CHATHAM COUNTY PLANNING	08.10.2010
2	REVISED PER NCDOT PWS COMMENTS DATED 09/04/10	09.08.2010
1	SUBMITTAL TO CLIENT FOR REVIEW	08.06.2010

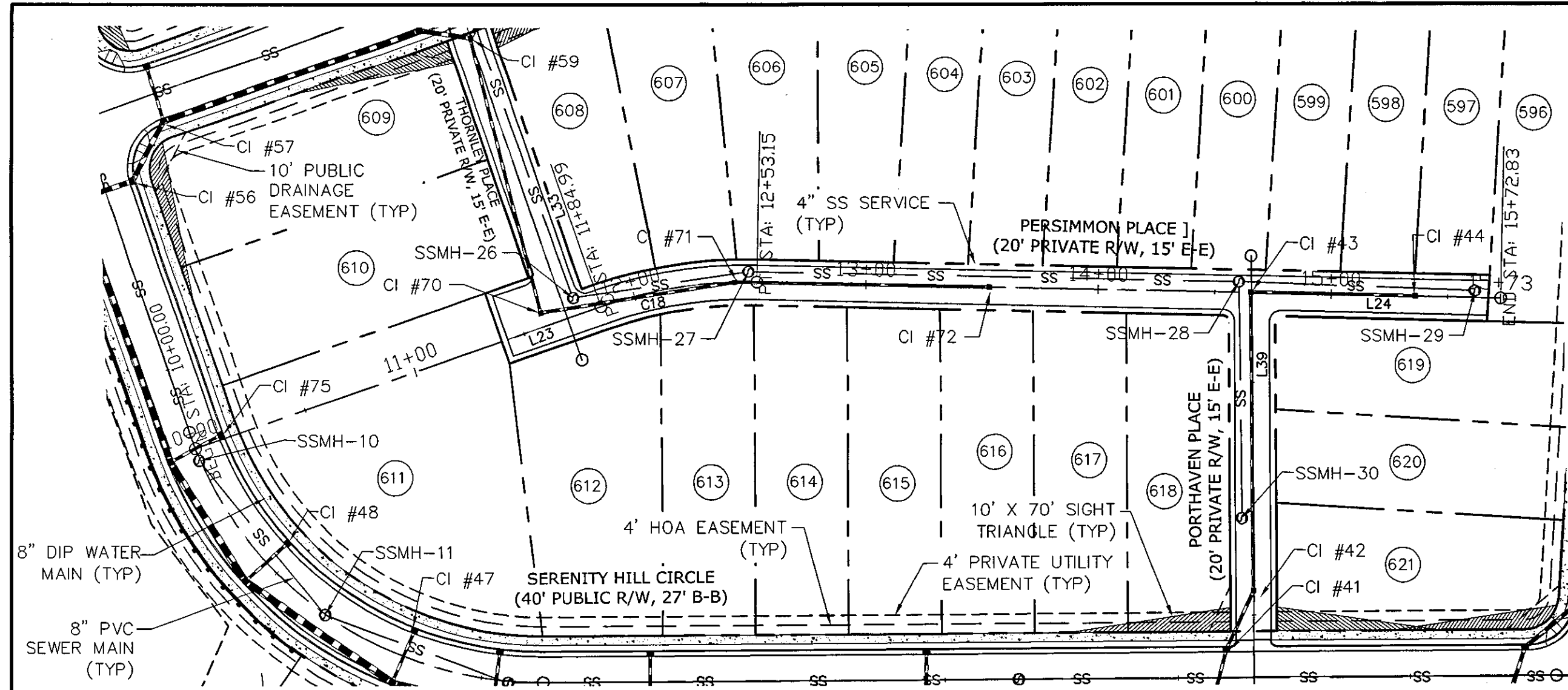


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PHASE 5 NORTH
CHATHAM COUNTY, NORTH CAROLINA
PLAN AND PROFILE - WISBOROUGH COURT: STA. 10+00 TO STA. 12+63
PLAN AND PROFILE - WILDFLOWER TRACE: STA. 10+00 TO STA. 12+19
PLAN AND PROFILE - EVERGREEN SPRING LANE: STA. 10+00 TO STA. 12+33

DATE: AUGUST 6, 2010
MCE PROJ. # 02735-0069
DRAWN: CMB
DESIGNED: CMB
CHECKED: GML
PROJ. MGR: GML
SCALE: HORIZONTAL: 1"=50', VERTICAL: 1"=5'
MAC FILE NUMBER: CT708
DRAWING NUMBER: PP-10
STATUS: ISSUED FOR PERMIT
REVISION: 3



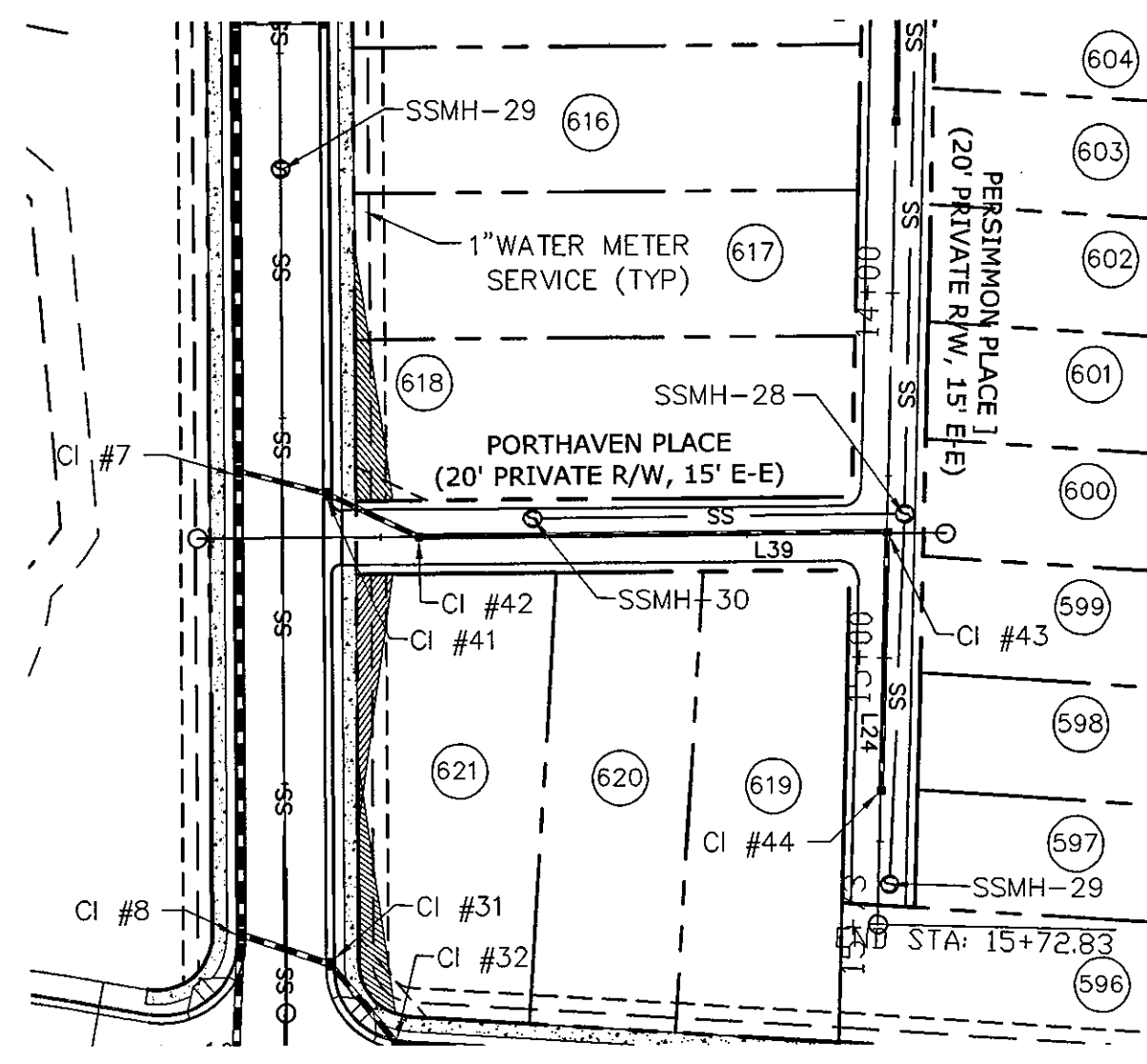
PERSIMMON PLACE PLAN
 (20' PRIVATE R/W, STA. 10+00 TO 15+81)
 SCALE: 1"=50'



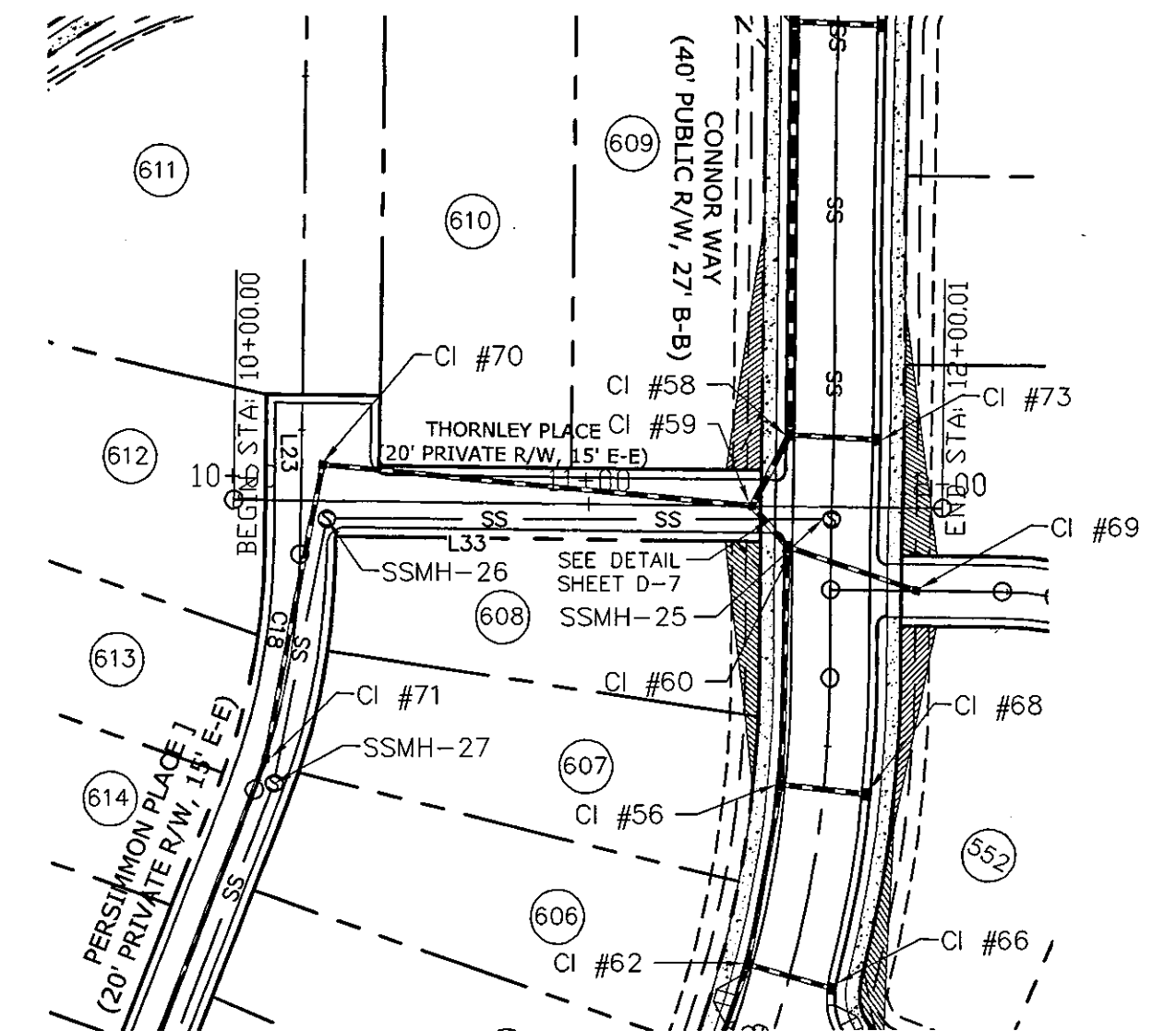
PERSIMMON PLACE (PRIVATE)			
Number	Length	Radius	Line/Chord Direction
L23	42.675		S9° 12' 43.76"E
L24	314.391		S11° 20' 29.28"W
C21	68.158	190.000	S1° 03' 52.76"W

THORNLEY PLACE (PRIVATE)			
Number	Length	Radius	Line/Chord Direction
L33	150.000		N80° 47' 16.24"E

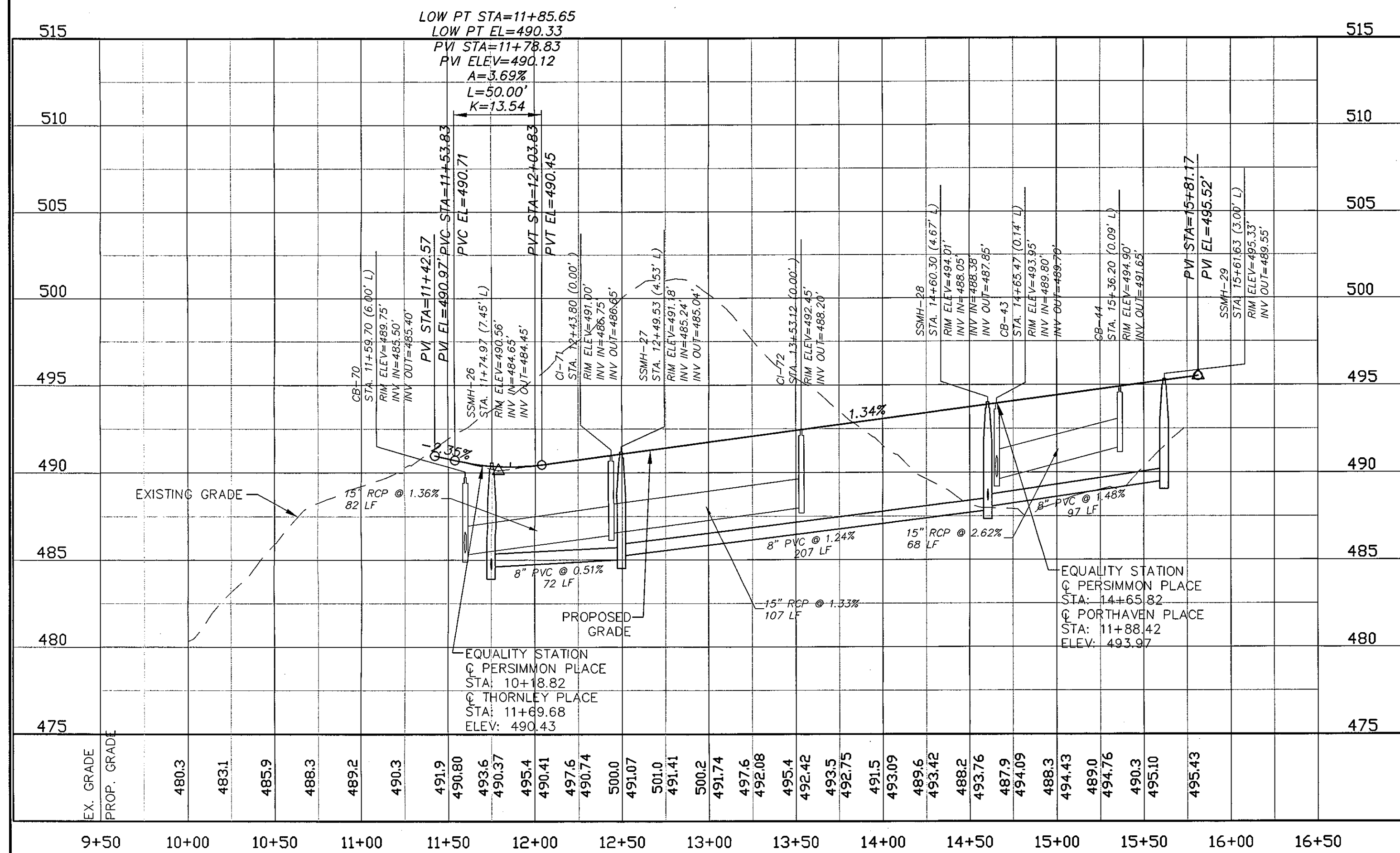
PORTHAVEN PLACE (PRIVATE)			
Number	Length	Radius	Line/Chord Direction
L39	165.079		S80° 17' 31.85"E



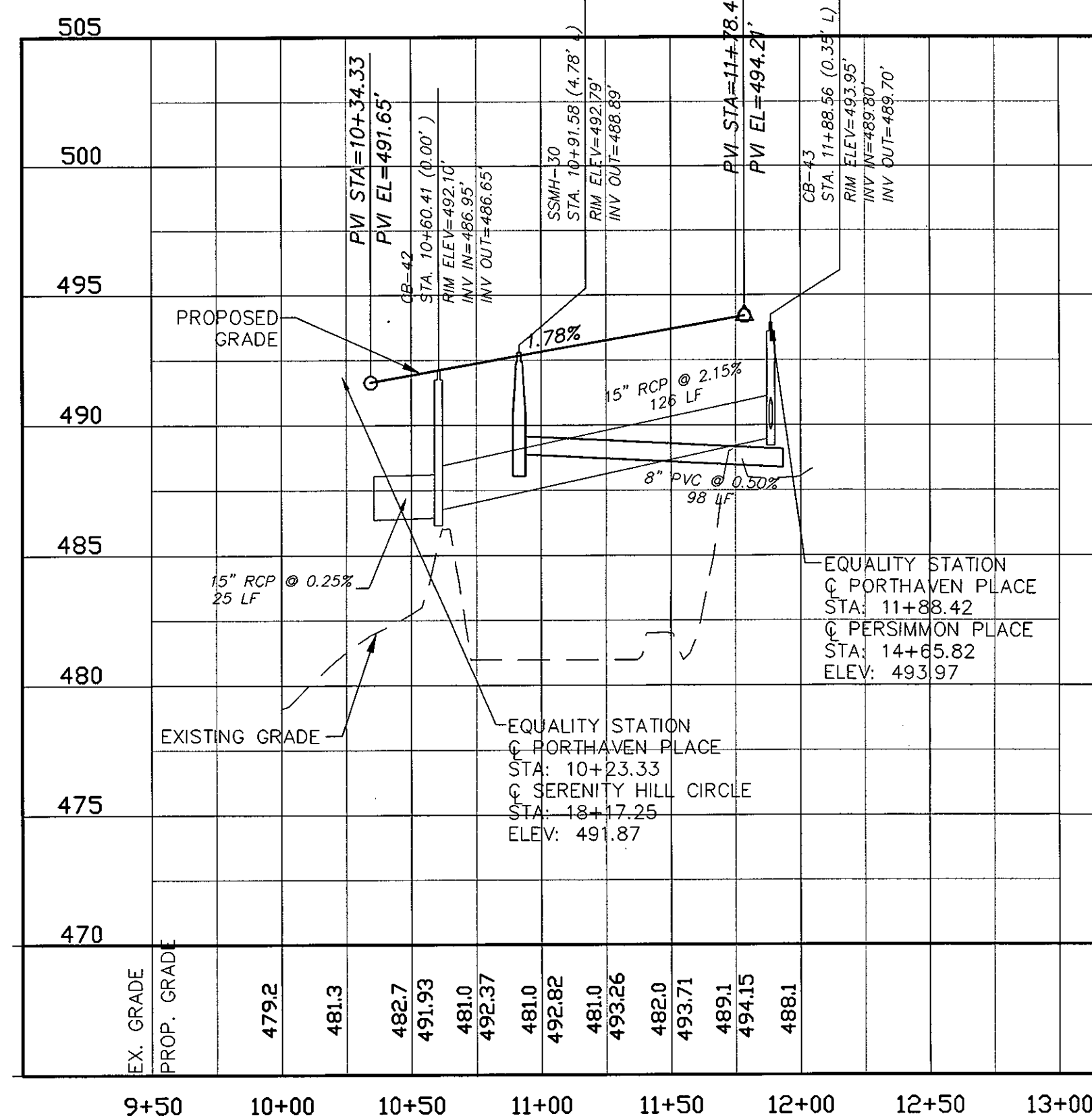
PORTHAVEN PLACE PLAN
 (20' PRIVATE R/W, STA. 10+00 TO 12+00)
 SCALE: 1"=50'



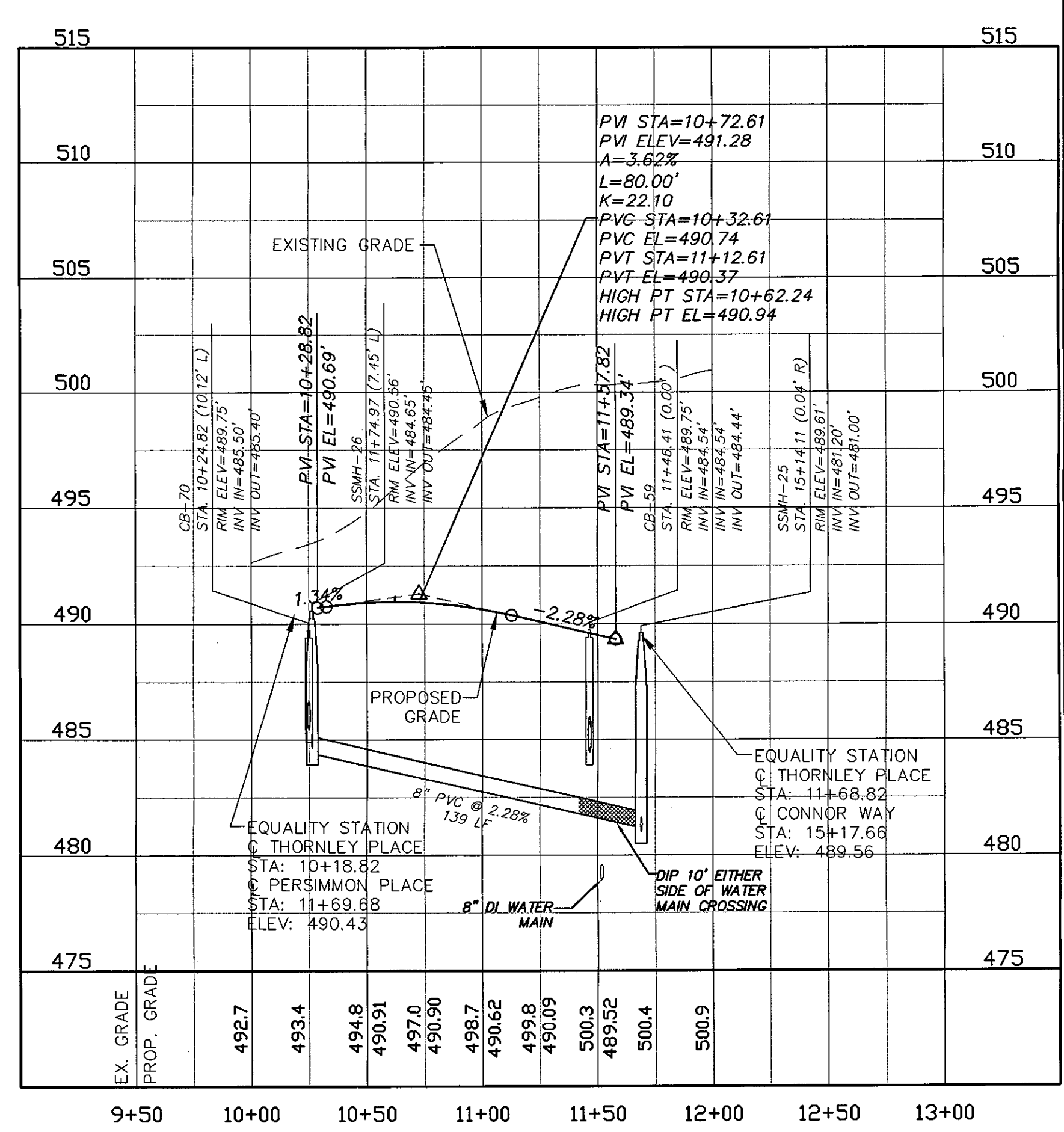
THORNLEY PLACE PLAN
 (20' PRIVATE R/W, STA. 10+00 TO 11+69)
 SCALE: 1"=50'



PERSIMMON PLACE PROFILE
 SCALE: (H) 1"=50'
 (V) 1"=5'

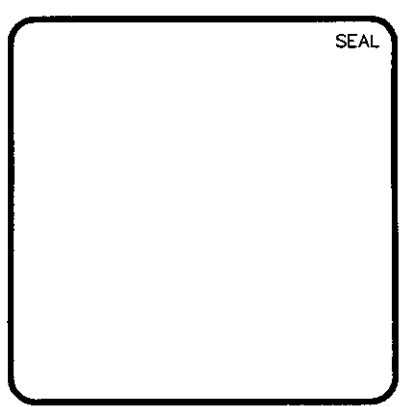


PORTHAVEN PLACE PROFILE
 SCALE: (H) 1"=50'
 (V) 1"=5'



THORNLEY PLACE PROFILE
 SCALE: (H) 1"=50'
 (V) 1"=5'

REV. NO.	DESCRIPTIONS	DATE
3	PRELIMINARY PLAT SUBMITTAL TO CHATHAM COUNTY PLANNING	09.10.2010
2	REVISED PER NCDOT PMS COMMENTS DATED 09/24/10	09.08.2010
1	SUBMITTAL TO NCDOT FOR REVIEW	08.06.2010



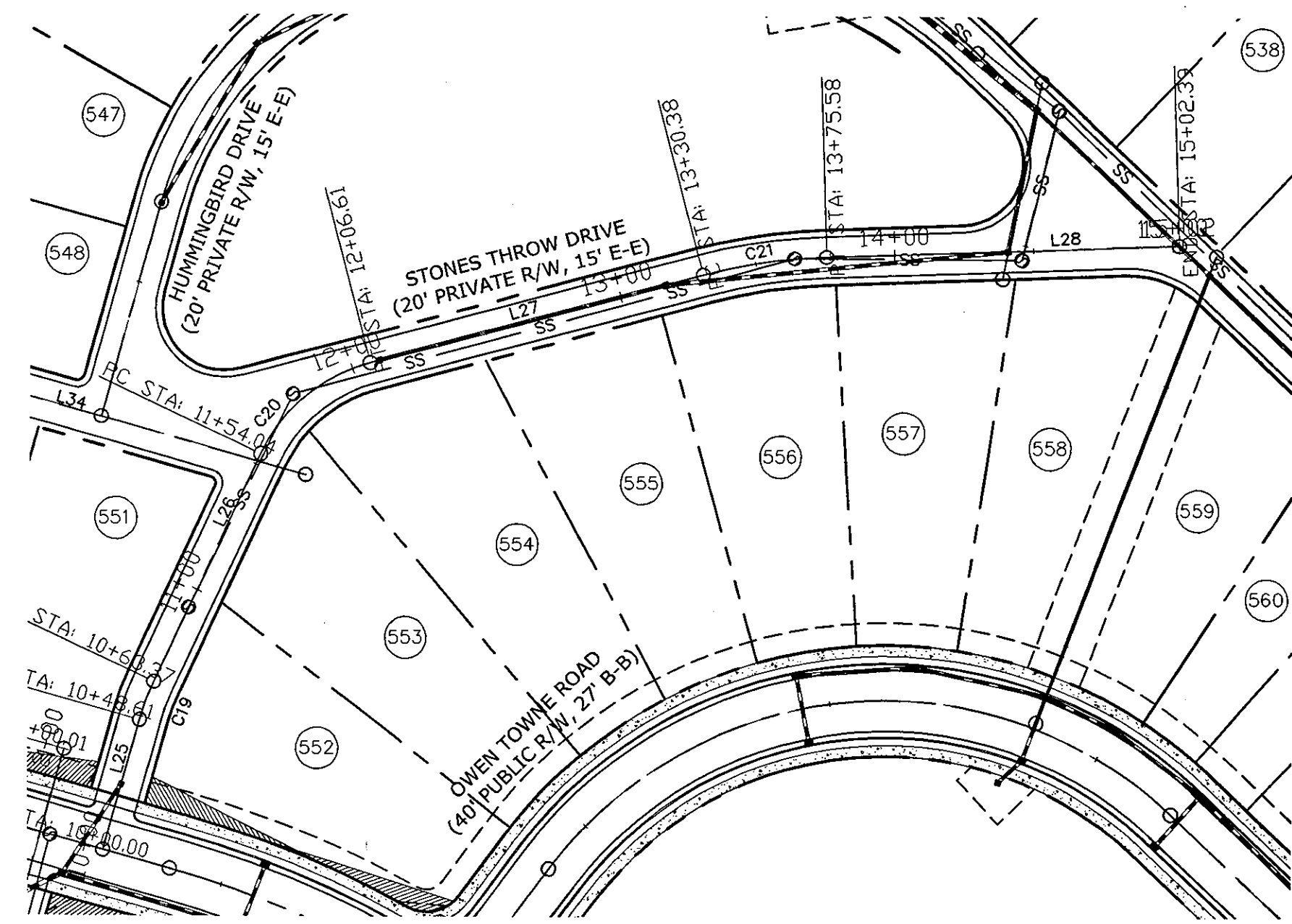
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**BRIAR CHAPEL
 PHASE 5 NORTH
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 PLAN AND PROFILE
 PERSIMMON PLACE: STA. 10+00 TO STA. 15+81
 PORTHAVEN PLACE: STA. 10+00 TO STA. 12+00; THORNLEY PLACE: STA. 10+00 TO 11+79**

DATE: AUGUST 6, 2010
 MCE PROJ. # 02735-0069
 DRAWN: CMB
 DESIGNED: CMB
 CHECKED: GML
 PROJ. MGR: GML

SCALE: HORIZONTAL: 1"=50', VERTICAL: 1"=5'
 MAC FILE NUMBER: CT709
 DRAWING NUMBER: PP-11
 STATUS: ISSUED FOR PERMIT
 REVISION: 3

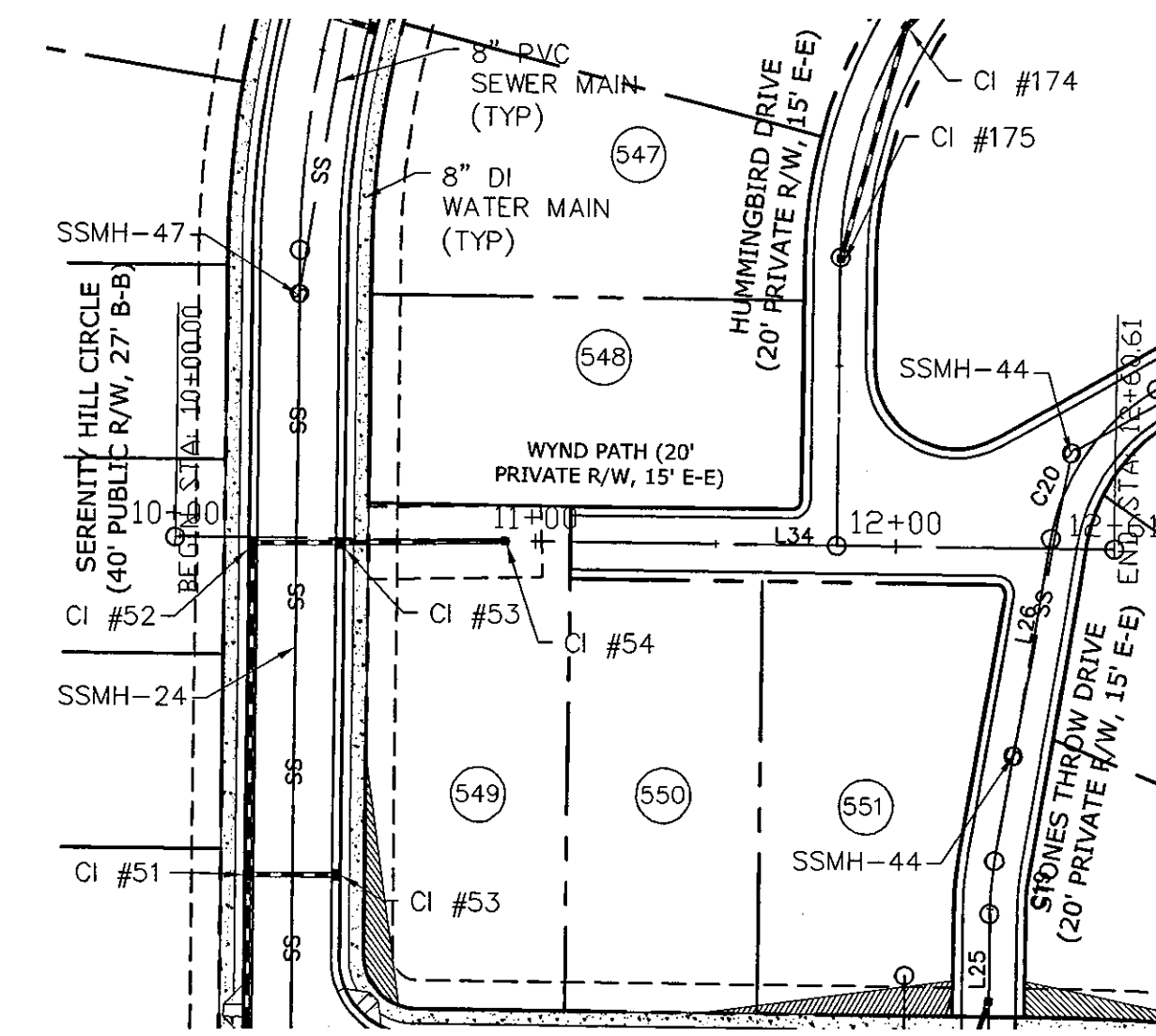


STONES THROW DRIVE PLAN
(20' PRIVATE R/W, STA. 10+00 TO 15+00)
SCALE: 1"=50'

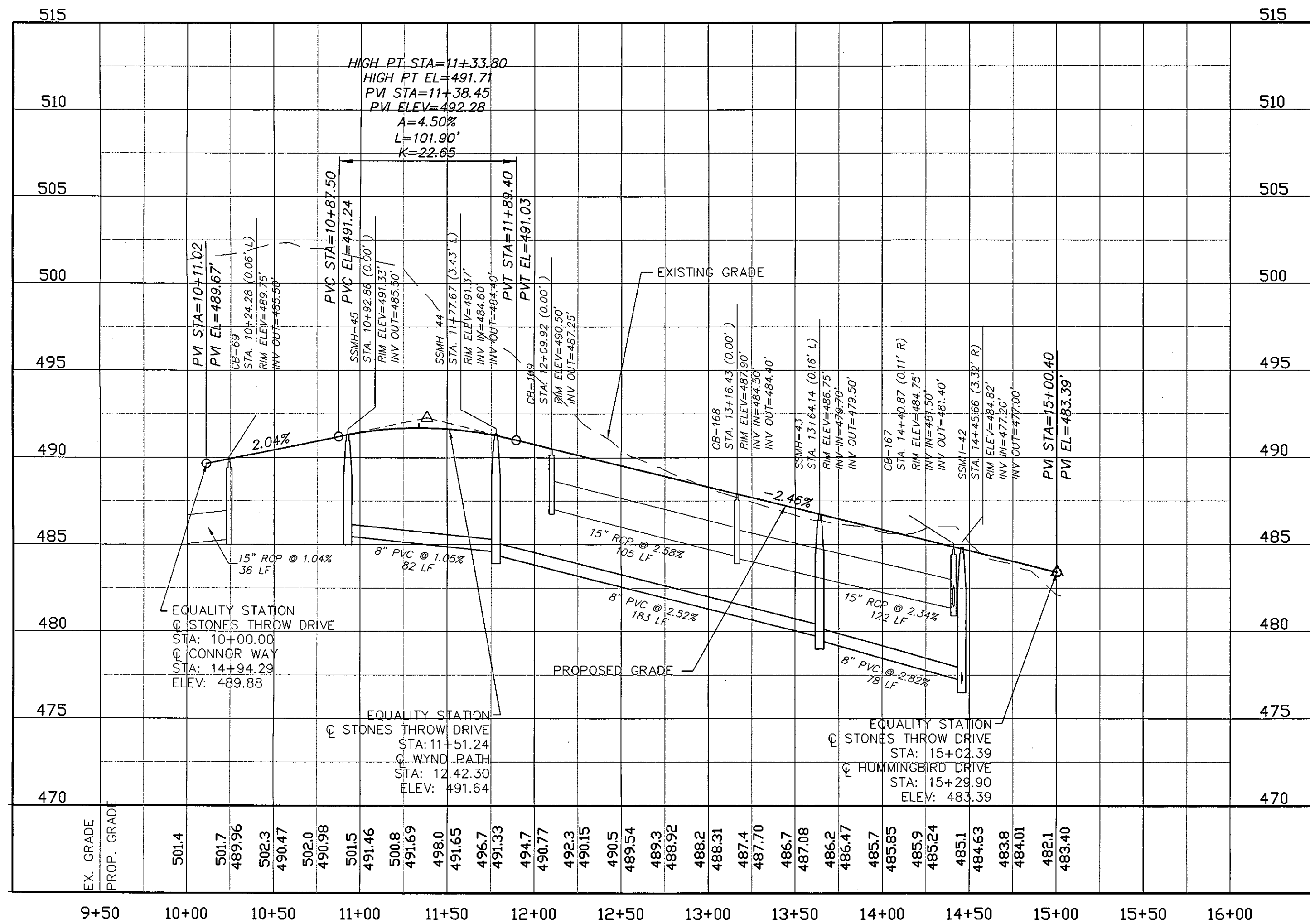


STONES THROW DRIVE (PRIVATE)				
Number	Length	Radius	Line/Chord Direction	
C18	14.758	90.000	N85° 29' 08.05"E	
C19	52.566	60.000	S64° 43' 05.38"E	
C20	45.201	200.000	S33° 08' 42.22"E	
L25	48.614		N80° 47' 16.24"E	
L26	90.670		S89° 49' 00.14"E	
L27	123.769		S39° 37' 10.62"E	
L28	126.812		S26° 40' 13.82"E	

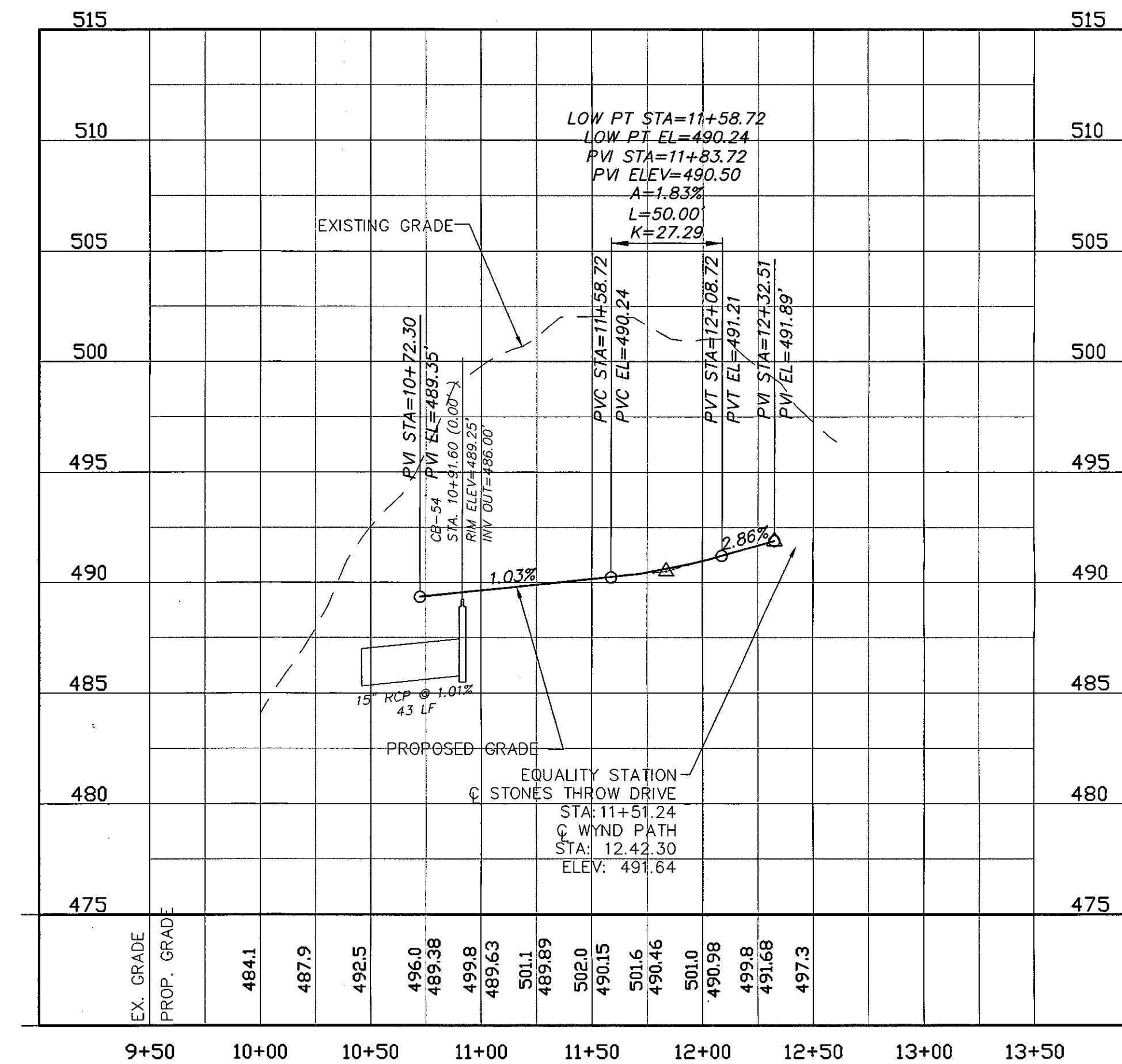
WYND PATH (PRIVATE)				
Number	Length	Radius	Line/Chord Direction	
L34	74.000		S9° 12' 43.76"E	



WYND PATH PLAN
(20' PRIVATE R/W, STA. 10+00 TO 12+30)
SCALE: 1"=50'

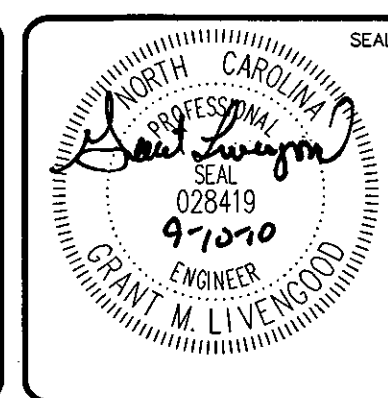
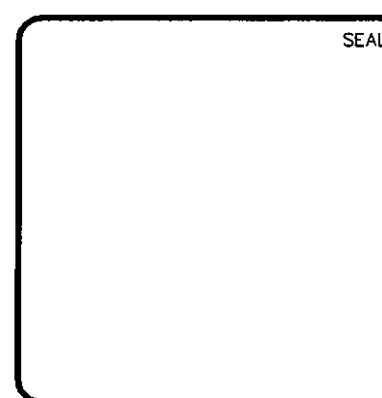


STONES THROW DRIVE PROFILE
SCALE: (H) 1"=50'
(V) 1"=5'



WYND PATH PROFILE
SCALE: (H) 1"=50'
(V) 1"=5'

REV.	NO.	DESCRIPTION	DATE
2	1	PRELIMINARY PLAT SUBMITTAL TO CHATHAM COUNTY PLANNING	09.10.2010
1	1	SUBMITTAL TO CLIENT FOR REVIEW	08.06.2010



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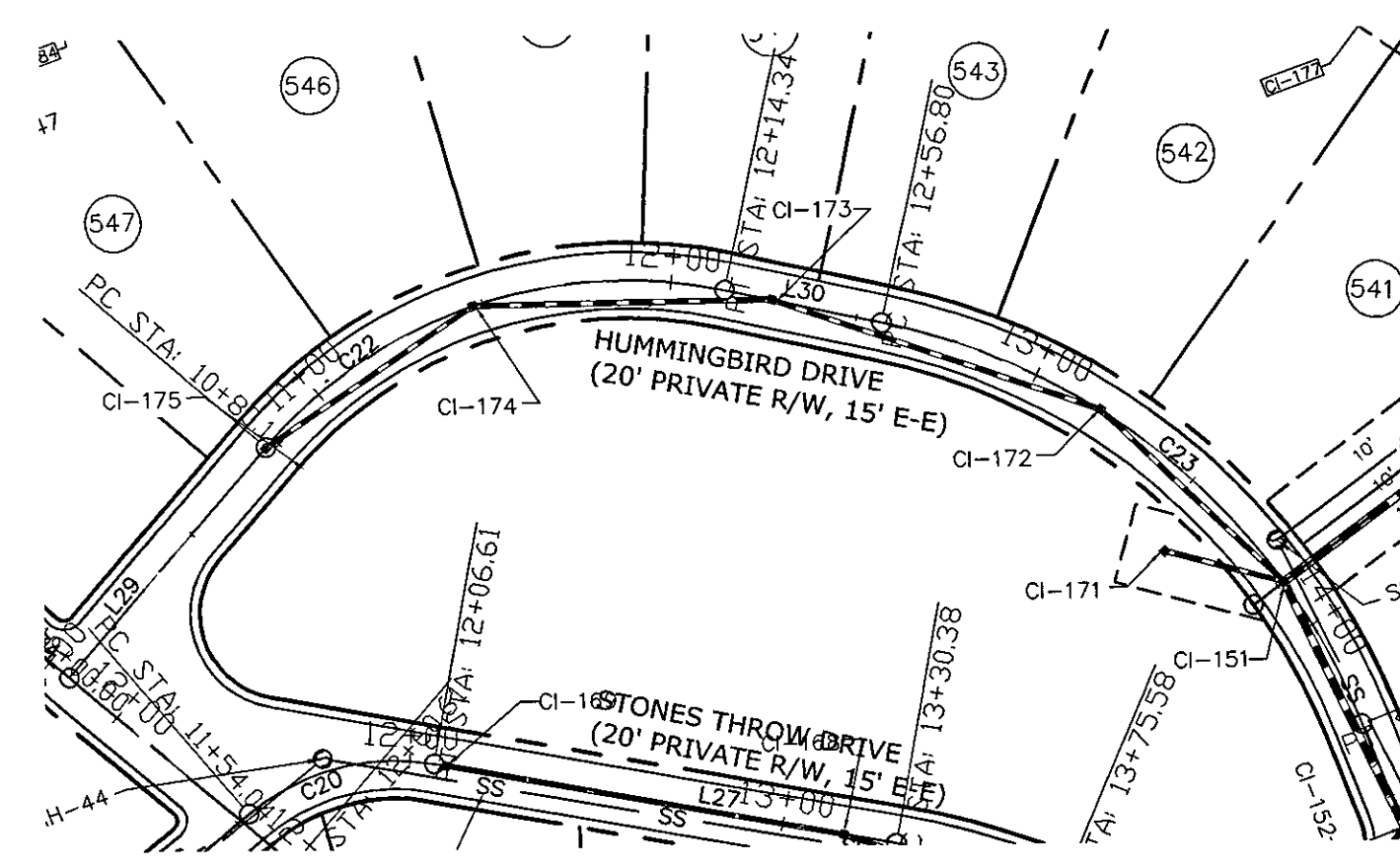
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**BRIAR CHAPEL
PHASE 5 NORTH
CHATHAM COUNTY, NORTH CAROLINA**
PLAN AND PROFILE
STONES THROW DRIVE: STA. 10+00 TO STA. 15+00
WYND PATH: STA. 10+00 TO STA. 12+30

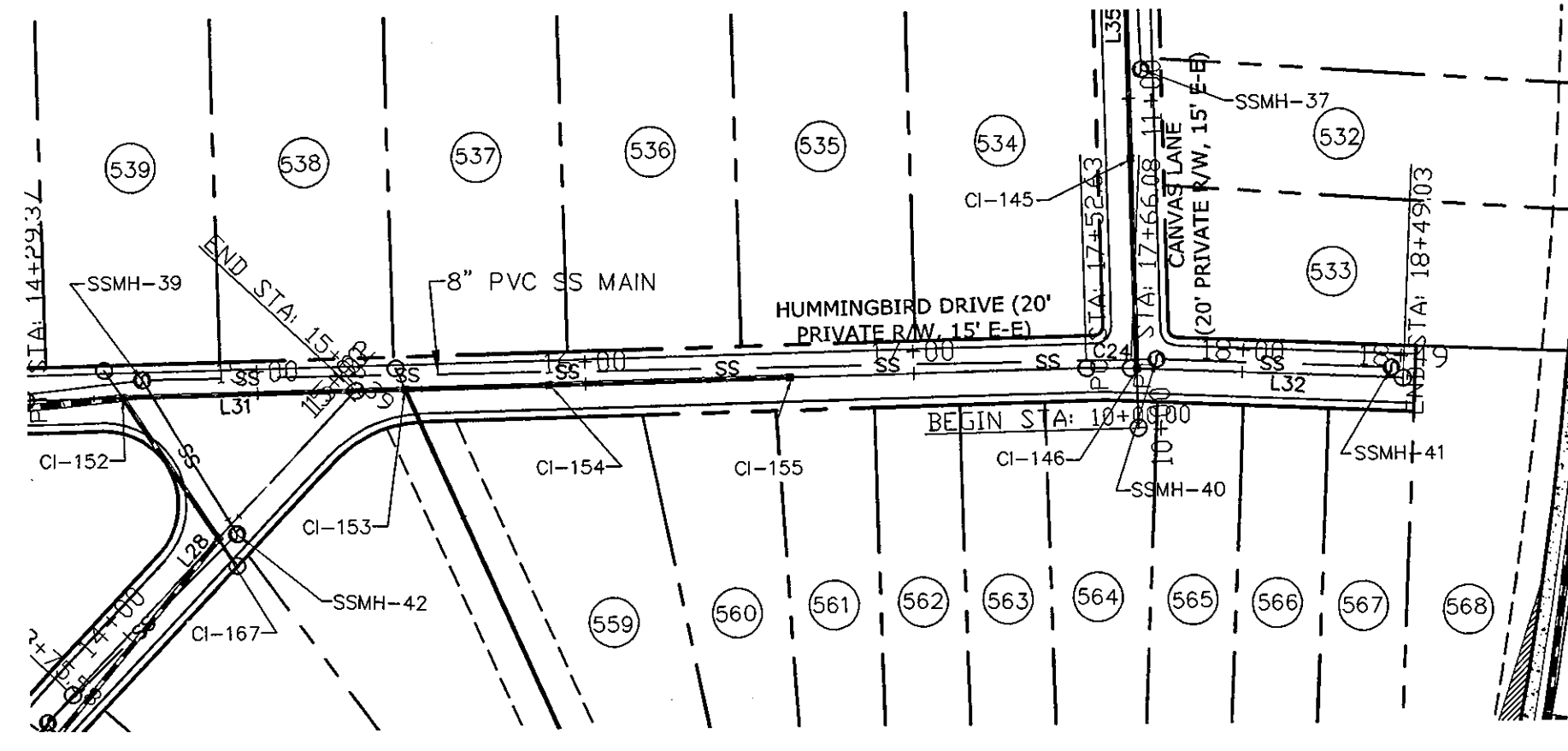
DATE: AUGUST 6, 2010	SCALE: HORIZONTAL: 1"=50' VERTICAL: 1"=5'	MAC FILE NUMBER: CT710
MCE PROJ. # 02735-0069	DRAWING NUMBER: PP-12	
DRAWN: CMB	DESIGNED: CMB	CHECKED: GML
PROJ. MGR.: GML	STATUS: ISSUED FOR PERMIT	REVISION: 2

HUMMINGBIRD DRIVE (PRIVATE)			
Number	Length	Radius	Line/Chord Direction
C22	134.204	125.000	S68° 27' 17.39"E
C23	172.569	175.000	S9° 26' 51.06"E
C24	13.452	200.000	S20° 43' 45.37"W
L29	80.139		N80° 47' 16.24"E
L30	42.457		S37° 41' 51.03"E
L31	323.262		S18° 48' 08.90"W
L32	86.552		S22° 39' 21.84"W

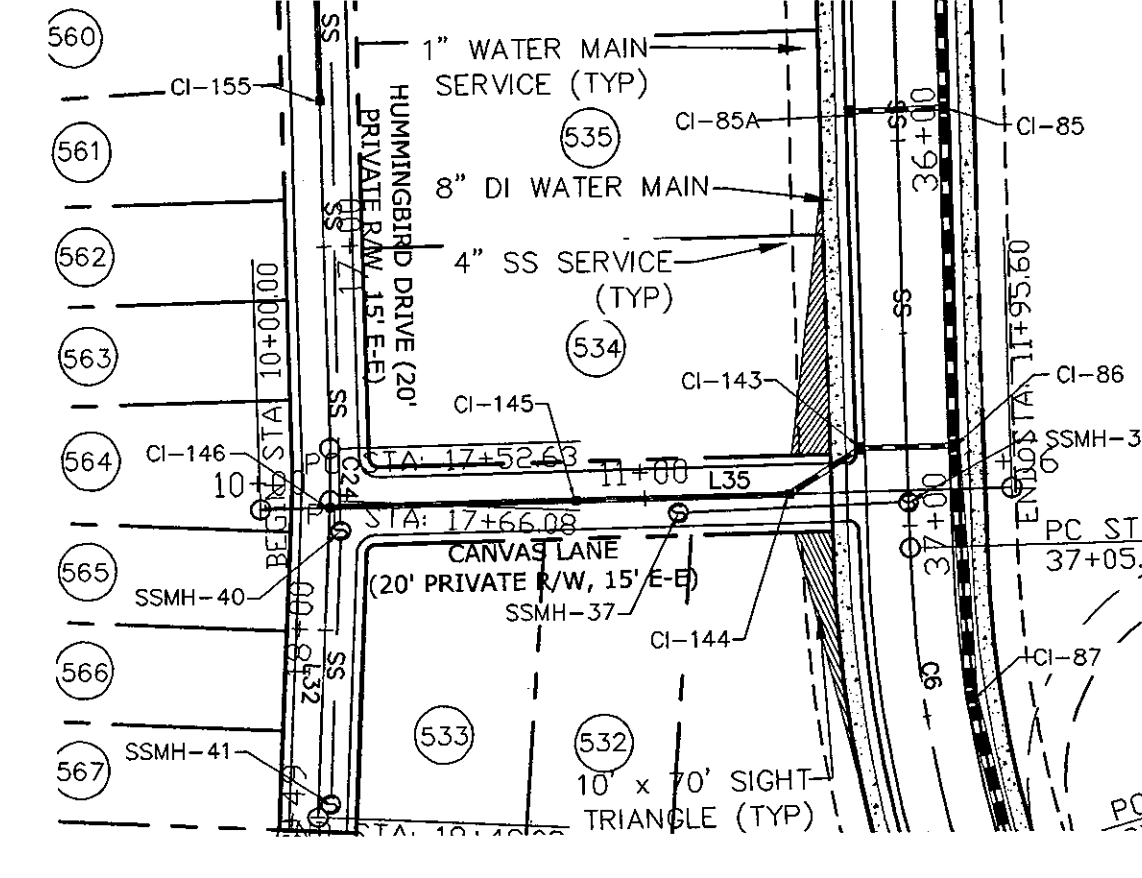
CANVAS LANE (PRIVATE)			
Number	Length	Radius	Line/Chord Direction
L35	150.573		S71° 11' 51.10"E



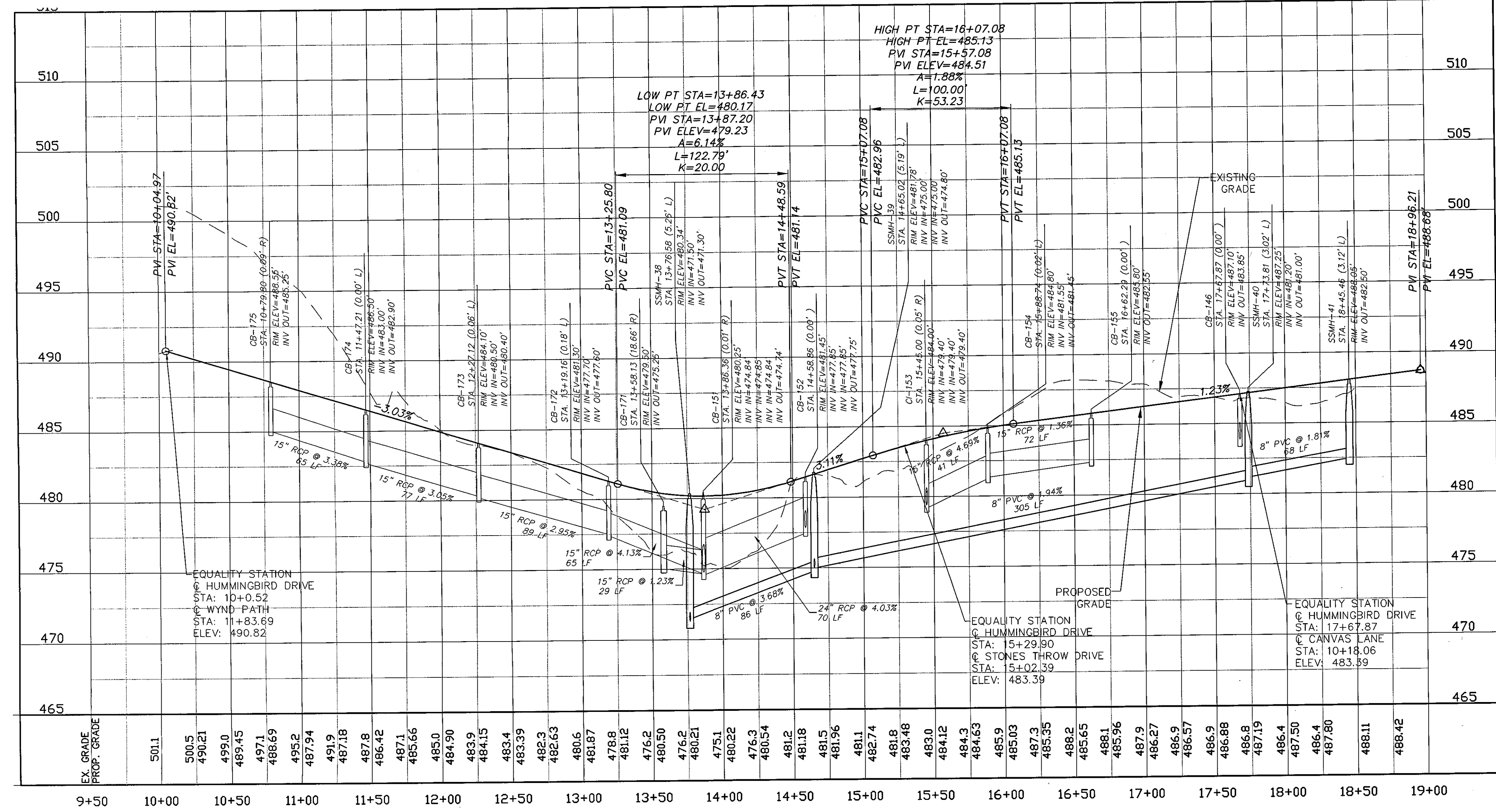
HUMMINGBIRD DRIVE PLAN
(20' PRIVATE R/W, STA. 10+00 TO 14+25)
SCALE: 1"=50'



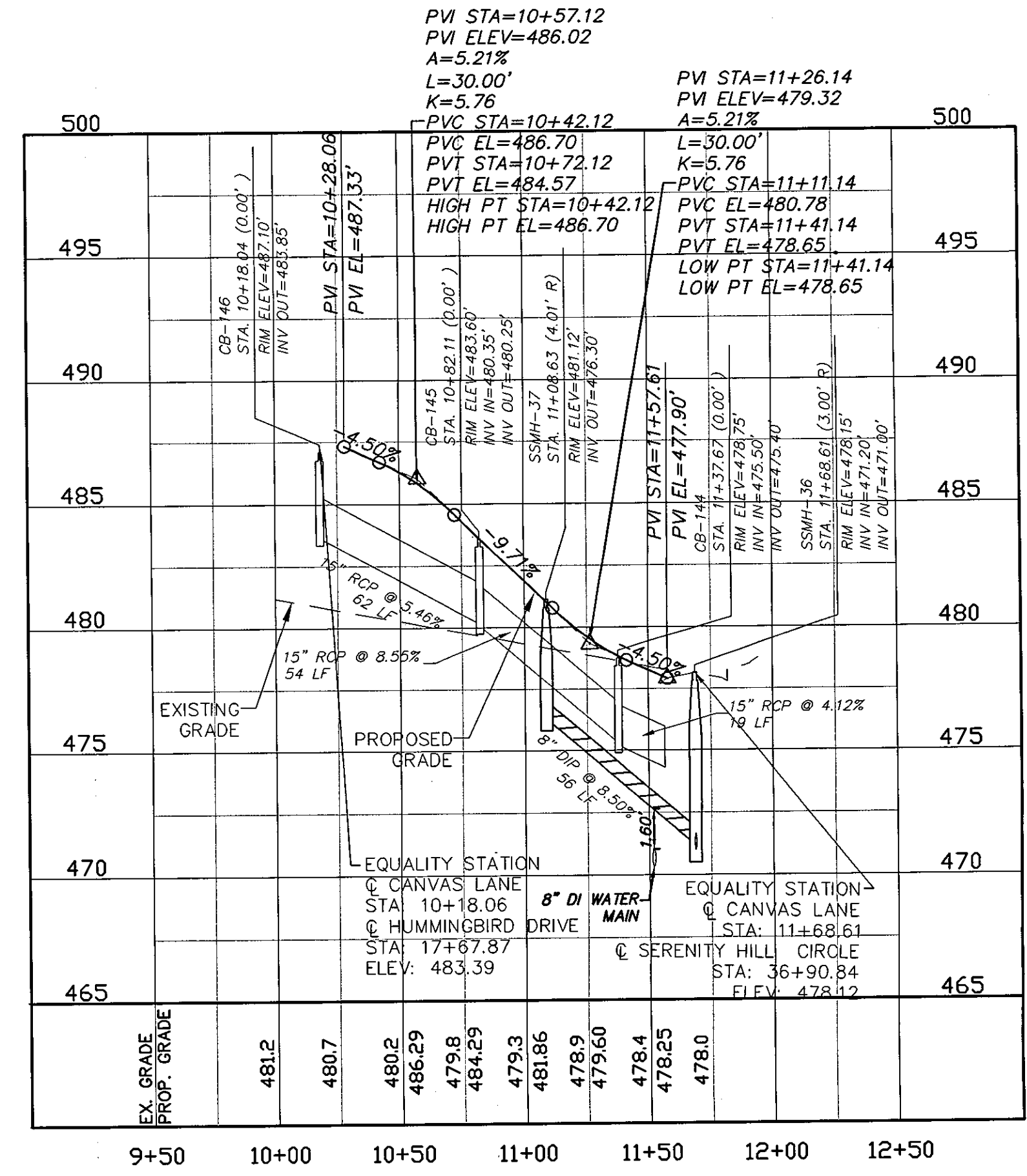
HUMMINGBIRD DRIVE PLAN
(20' PRIVATE R/W, STA. 14+25 TO 18+49)
SCALE: 1"=50'



CANVAS LANE PLAN
(20' PRIVATE R/W, STA. 10+00 TO 11+69)
SCALE: 1"=50'

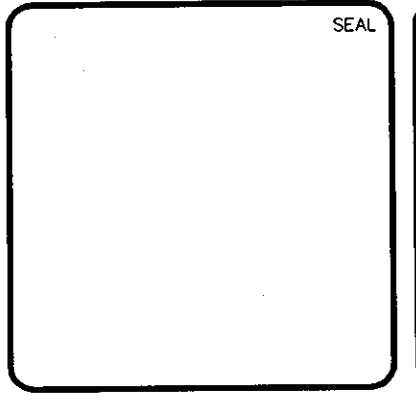


HUMMINGBIRD DRIVE PROFILE
SCALE: (H) 1"=50'
(V) 1"=5'



CANVAS LANE PROFILE
SCALE: (H) 1"=50'
(V) 1"=5'

REVNO.	DESCRIPTIONS	DATE
3	PRELIMINARY PLAT SUBMITTAL TO CHATHAM COUNTY PLANNING	09.10.2010
2	REVISED PER NCDOT PWS COMMENTS DATED 09/04/10	09.08.2010
1	SUBMITTAL TO CLIENT FOR REVIEW	08.28.2010



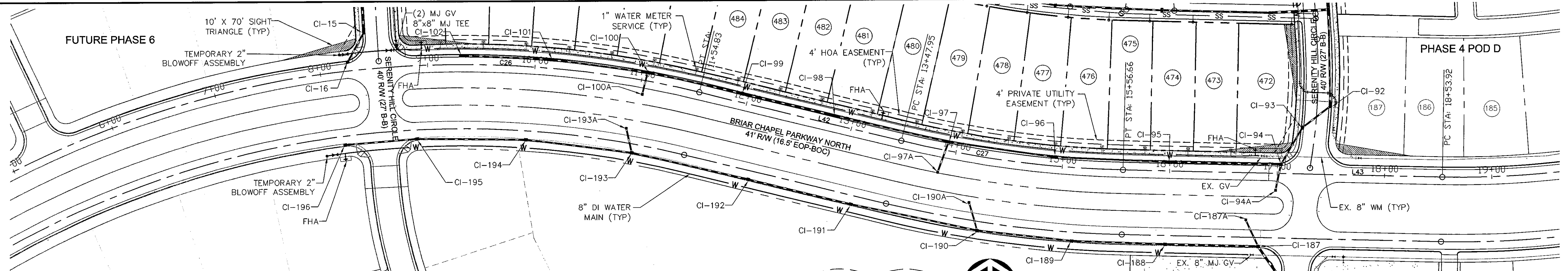
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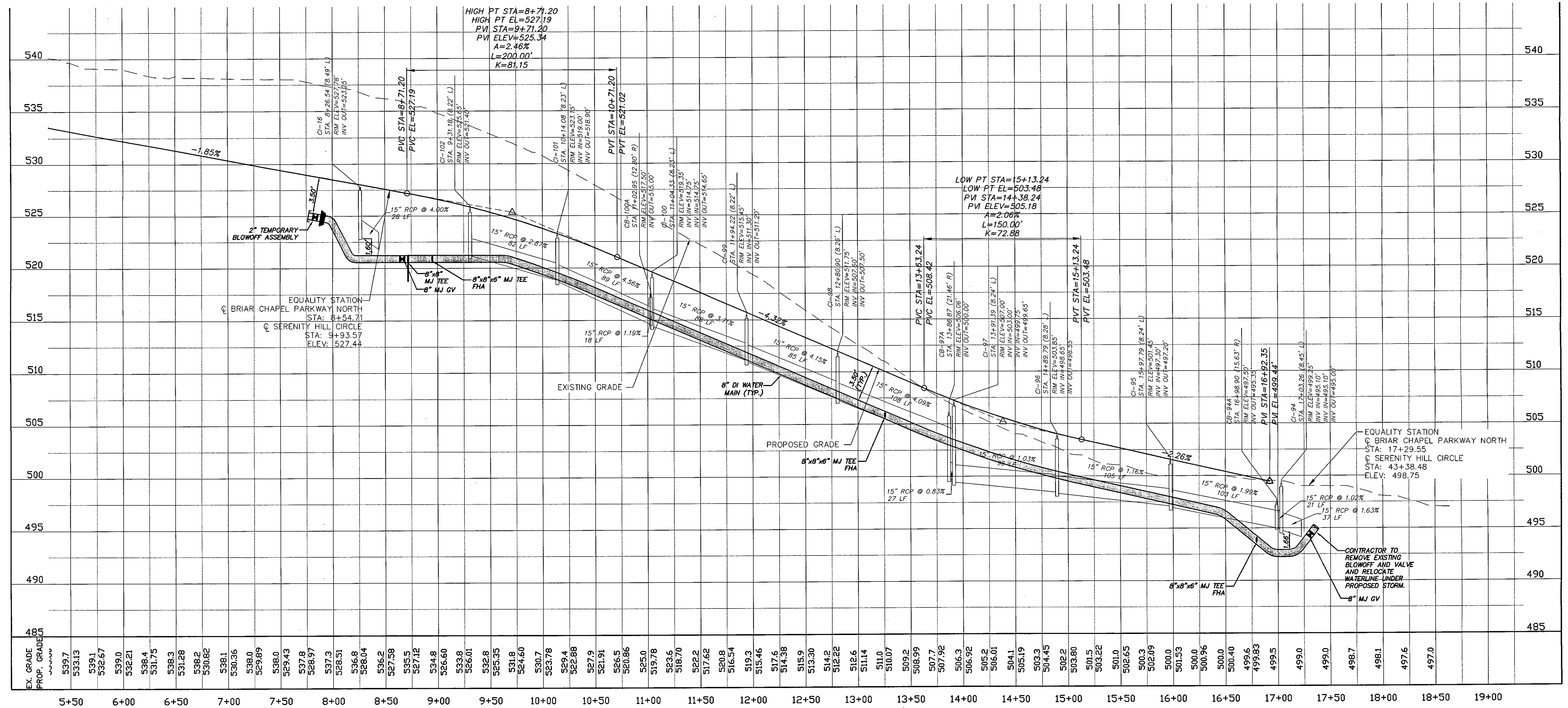
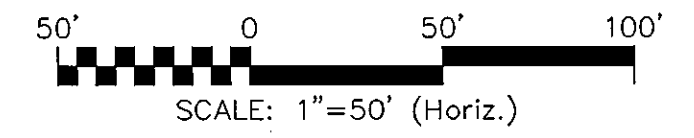
BRIAR CHAPEL
PHASE 5 NORTH
CHATHAM COUNTY, NORTH CAROLINA
PLAN AND PROFILE
HUMMINGBIRD DRIVE: STA. 10+00 TO STA. 18+49
CANVAS LANE: STA. 10+00 TO STA. 11+69

DATE: AUGUST 6, 2010	SCALE: 1"=50'	MAC FILE NUMBER: CT711
MCE PROJ. # 02735-0069	HORIZONTAL: 1"=50'	DRAWING NUMBER: PP-13
DRAWN: CMB	VERTICAL: 1"=5'	REVISION: 3
DESIGNED: CMB		
CHECKED: GML		
PROJ. MGR.: GML		
STATUS: ISSUED FOR PERMIT		

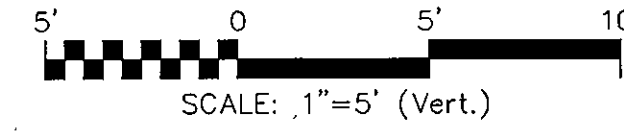
BRIAR CHAPEL PARKWAY NORTH (PUBLIC)			
Number	Length	Radius	Line/Chord Direction
C26	855.968	930.000	N77° 26' 40.13"E
L42	193.122		S76° 11' 77.22"E
C27	208.708	970.000	S82° 21' 07.46"E
L43	297.266		S88° 30' 57.71"E



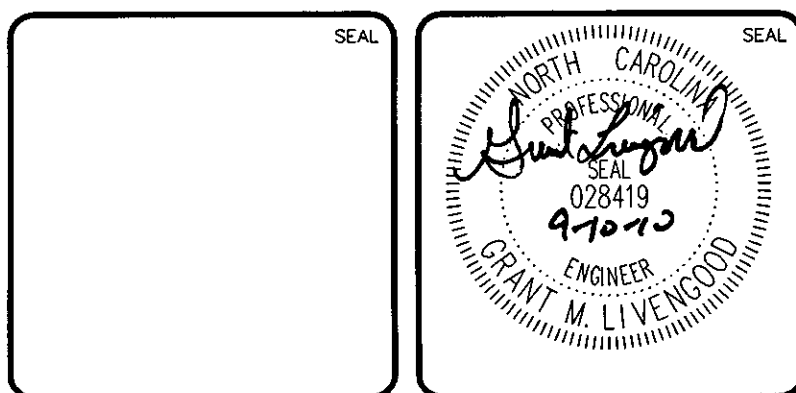
BRIAR CHAPEL PARKWAY NORTH PLAN
 (41' PUBLIC R/W, STA. 6+65 TO 17+30)



BRIAR CHAPEL PARKWAY NORTH PROFILE
 SCALE: (Horiz.) 1"=50'



REV.	DESCRIPTION	DATE
3	PRELIMINARY PLAN SUBMITTAL TO CHATHAM COUNTY PLANNING	09.10.2010
2	REVISED PER CHATHAM COUNTY PUBLIC UTILITIES COMMENTS	09.01.2010
1	SUBMITTAL TO CLIENT FOR REVIEW	08.06.2010



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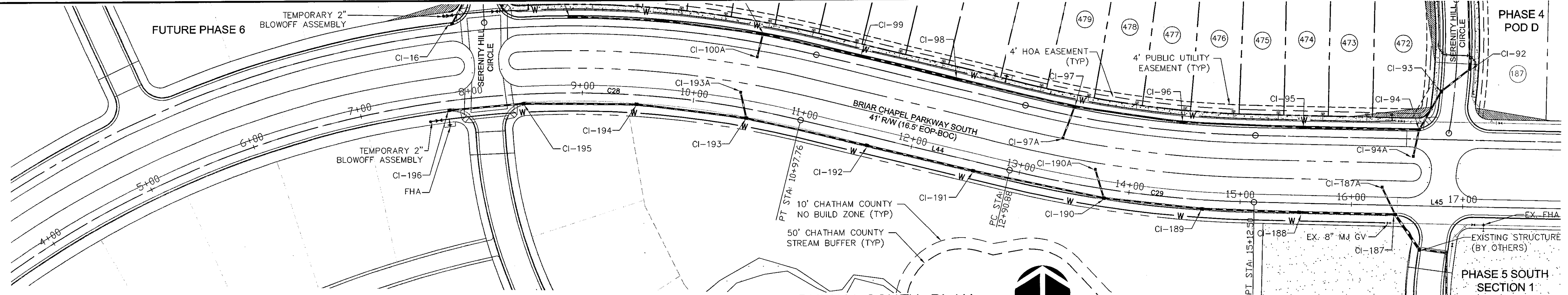
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BRIAR CHAPEL PHASE 5 NORTH
 CHATHAM COUNTY, NORTH CAROLINA
PLAN AND PROFILE
 BRIAR CHAPEL PARKWAY NORTH
 STA. 6+65 TO STA. 17+30

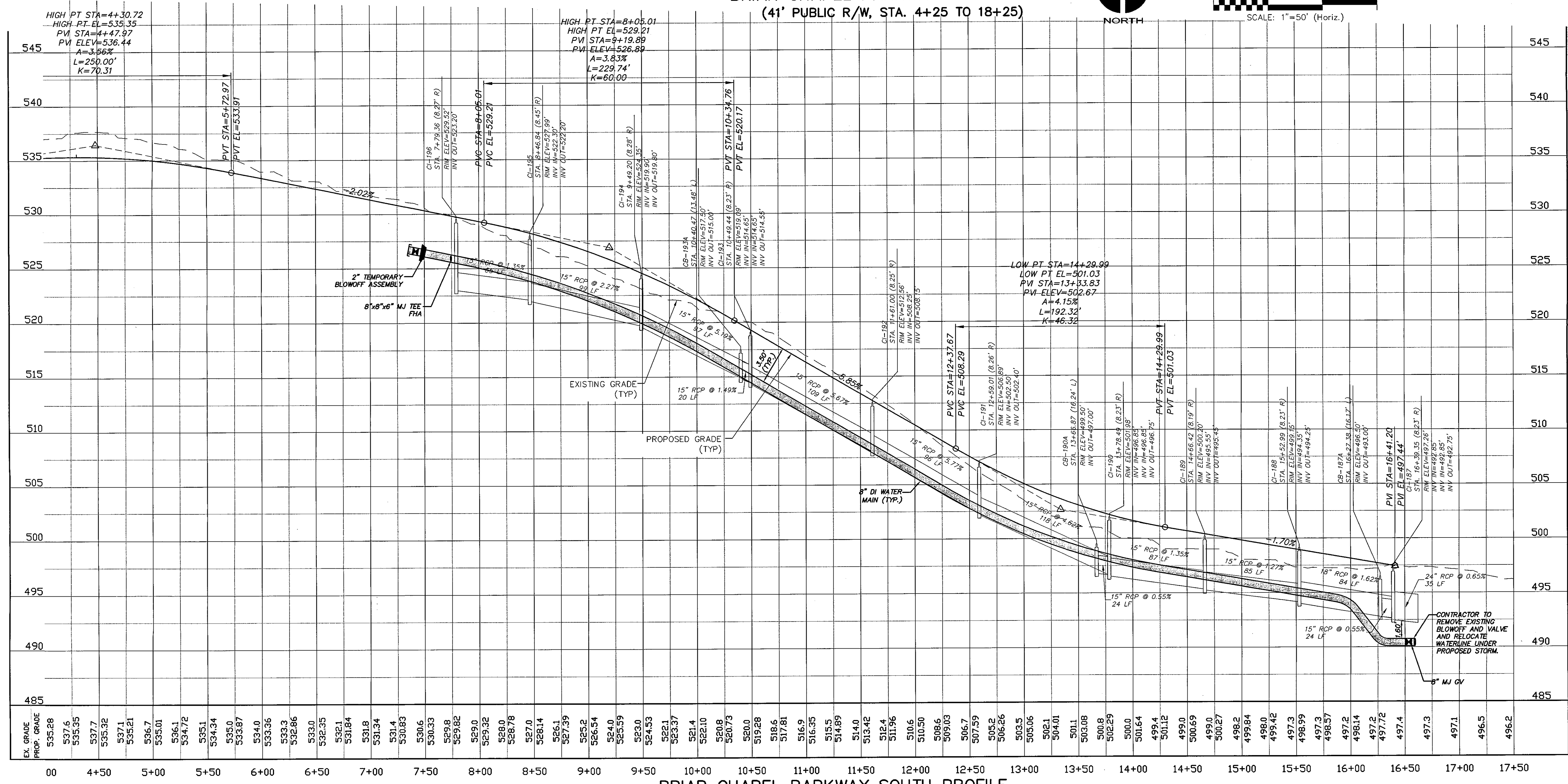
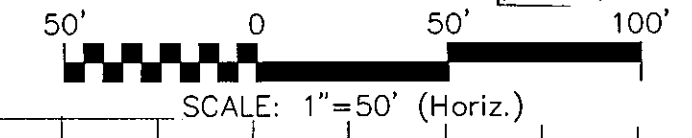
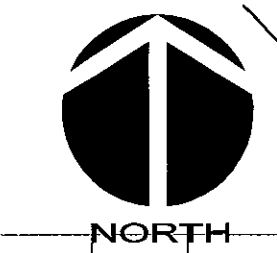
DATE: AUGUST 6, 2010	SCALE: HORIZONTAL: 1" = 50'
MCE PROJ. # 02735-0069	VERTICAL: 1" = 5'
DRAWN: CMB	
DESIGNED: CMB	
CHECKED: GML	
PROJ. MGR. GML	

MAC FILE NUMBER: **CT172**
 DRAWING NUMBER: **PP-14**
 STATUS: **ISSUED FOR PERMIT**
 REVISION: **3**

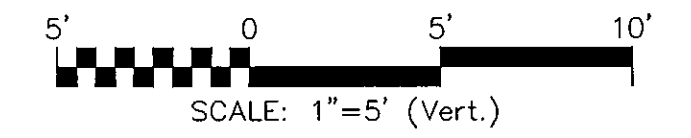
BRIAR CHAPEL PARKWAY SOUTH (PUBLIC)			
Number	Length	Radius	Line/Chord Direction
C28	800.745	870.000	N77° 26' 40.13"E
L44	193.122		S76° 11' 77.22"E
C29	221.618	1030.000	S82° 21' 07.46"E
L45	297.229		S88° 30' 57.71"E



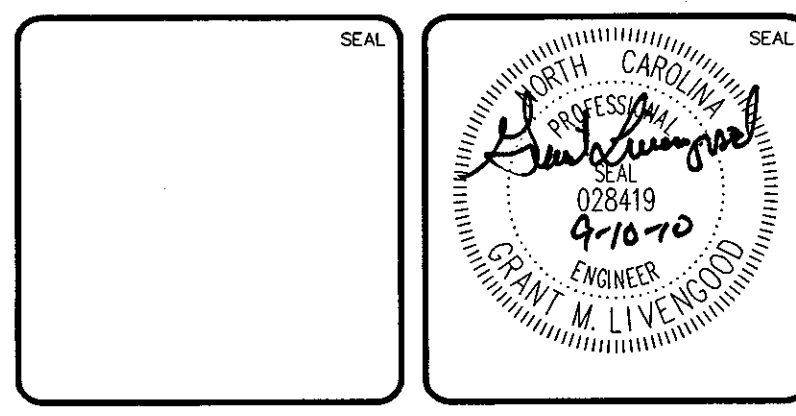
BRIAR CHAPEL PARKWAY SOUTH PLAN
(41' PUBLIC R/W, STA. 4+25 TO 18+25)



BRIAR CHAPEL PARKWAY SOUTH PROFILE
SCALE: (Horiz.) 1"=50'



REVNO.	DESCRIPTIONS	DATE
2	PRELIMINARY PLAN SUBMITTAL TO CHATHAM COUNTY PLANNING	08.10.2010
3	REVISED FOR CHATHAM COUNTY PUBLIC UTILITIES COMMENTS	09.01.2010
1	SUBMITTAL TO NCDOT FOR REVIEW	06.08.2010

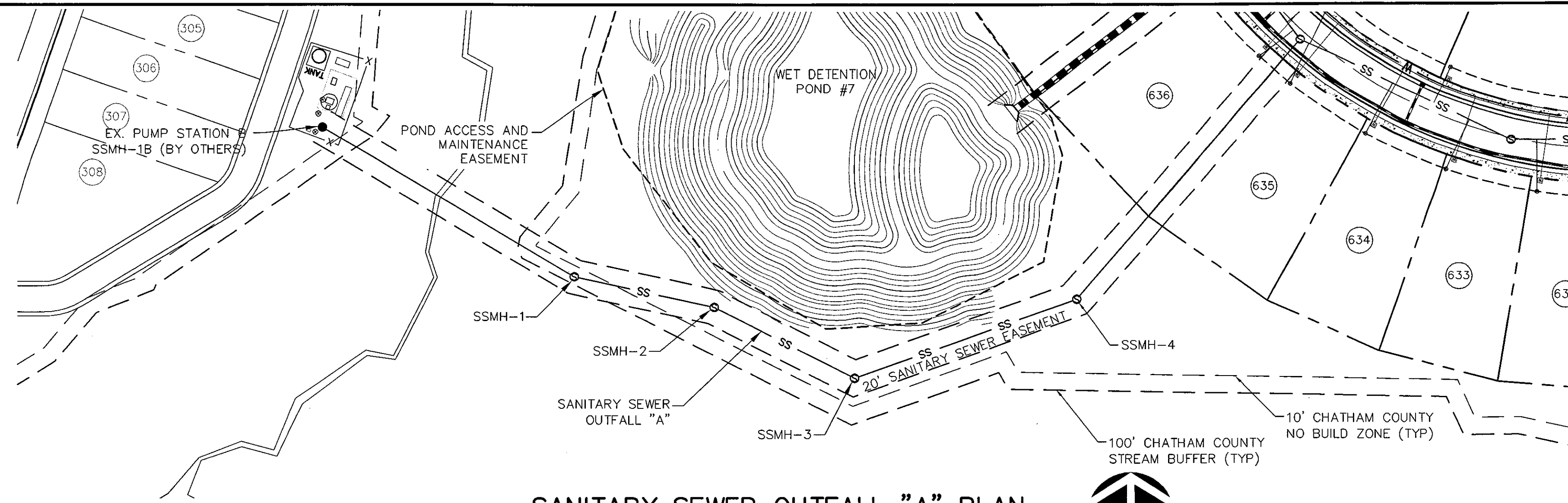


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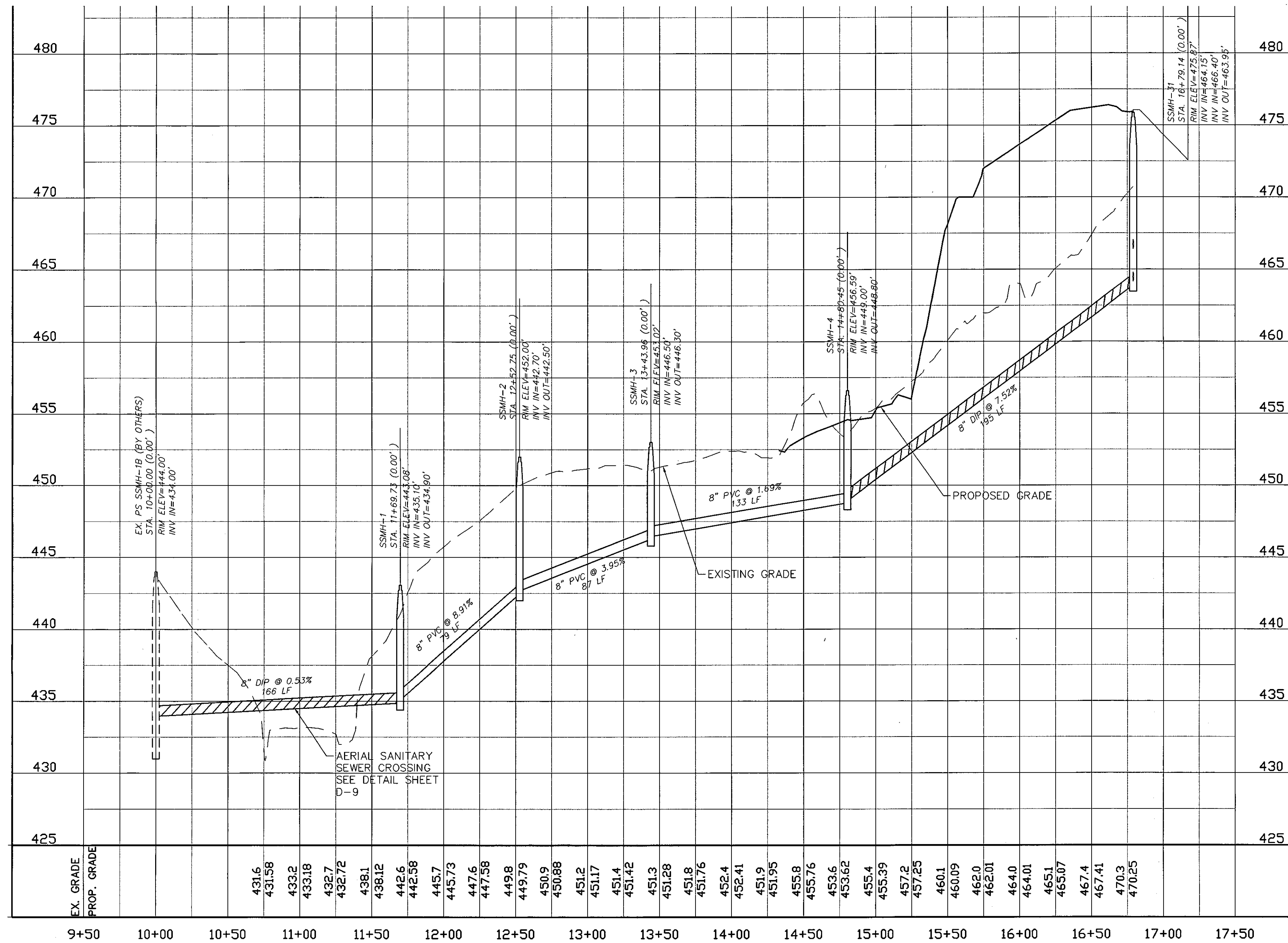
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**BRIAR CHAPEL
PHASE 5 NORTH
CHATHAM COUNTY, NORTH CAROLINA
PLAN AND PROFILE
BRIAR CHAPEL PARKWAY SOUTH
STA. 4+25 TO STA. 18+25**

DATE: JUNE 30, 2010	SCALE: CT713	FILE NUMBER: PP-15
MCE PROJ. # 02735-0069	HORIZONTAL: 1" = 50'	REVISION: 3
DRAWN: CMB	VERTICAL: 1" = 5'	
DESIGNED: CMB		
CHECKED: GML		
PROJ. MGR: GML		
STATUS: ISSUED FOR PERMIT		

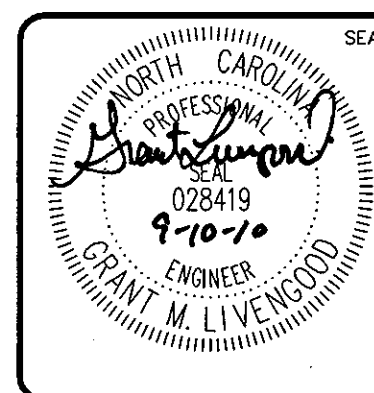
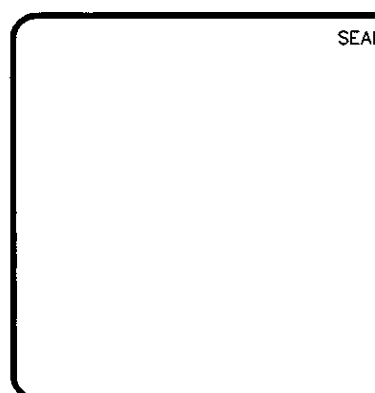


SANITARY SEWER OUTFALL "A" PLAN
 (20' PRIVATE SEWER EASEMENT, STA. 10+00 TO 16+79)
 SCALE: 1"=50'



SANITARY SEWER OUTFALL "A" PROFILE
 SCALE: (H) 1"=50'
 (V) 1"=5'

REV. NO.	DESCRIPTIONS	DATE
3	PRELIMINARY PLAN SUBMITTAL TO CHATHAM COUNTY PLANNING	08.10.2010
2	REVISED PER SANITARY SEWER OUTFALL REVISIONS	08.16.2010
1	SUBMITTAL TO CLIENT FOR REVIEW	08.06.2010



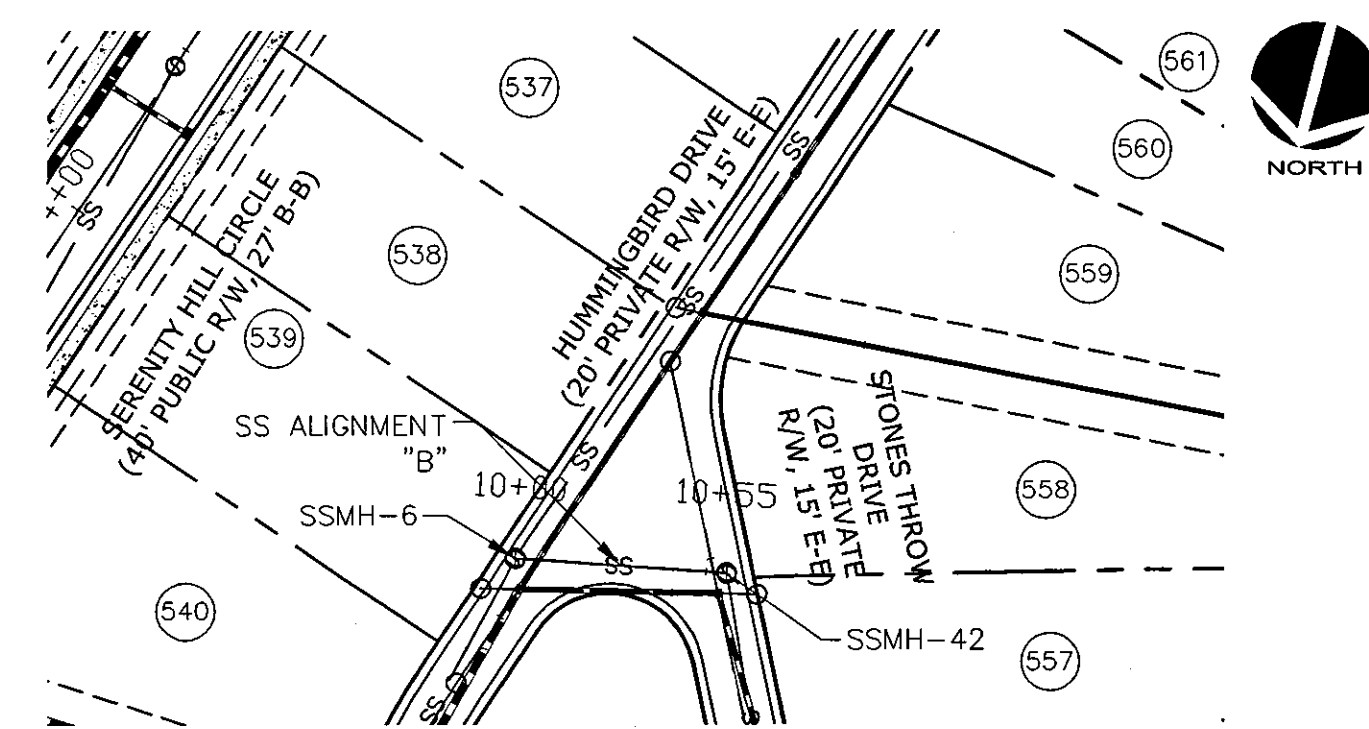
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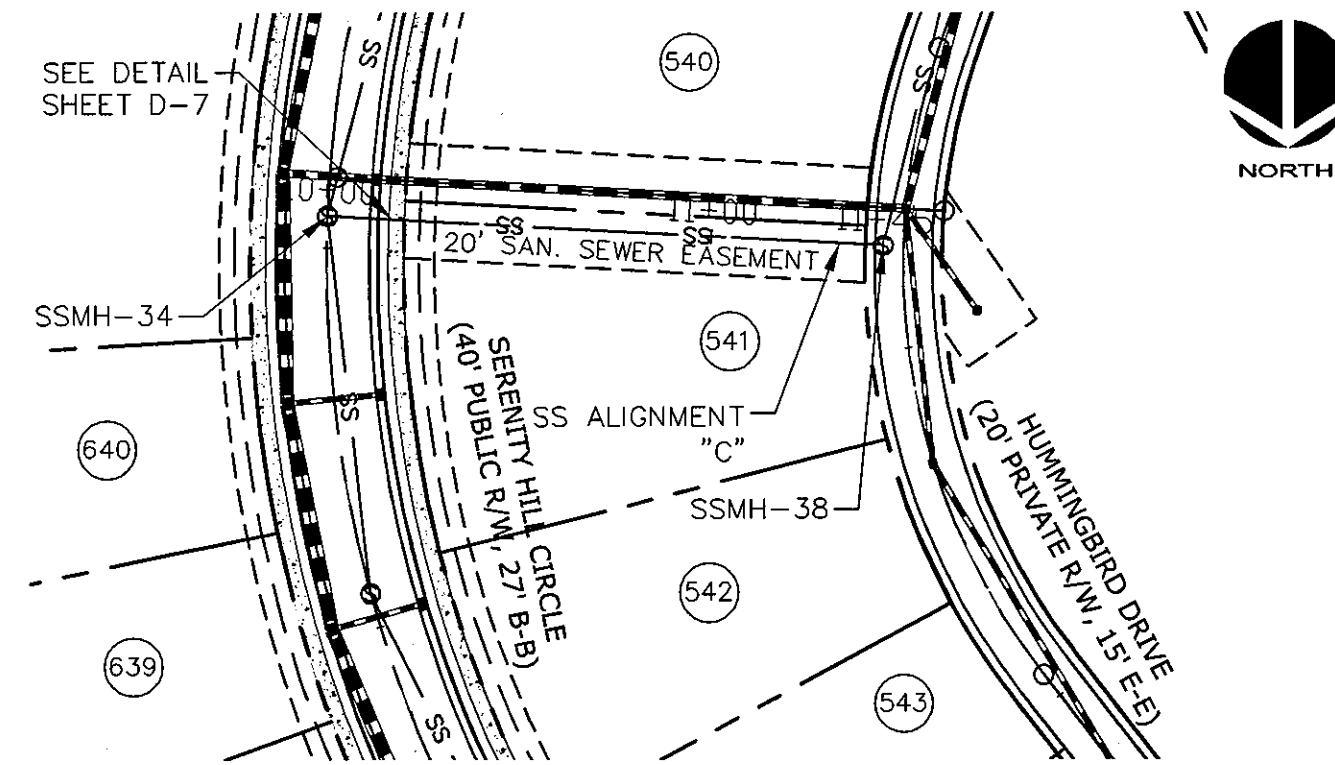
**BRIAR CHAPEL
 PHASE 5 NORTH
 CHATHAM COUNTY, NORTH CAROLINA
 PLAN AND PROFILE**

SANITARY SEWER OUTFALL "A"

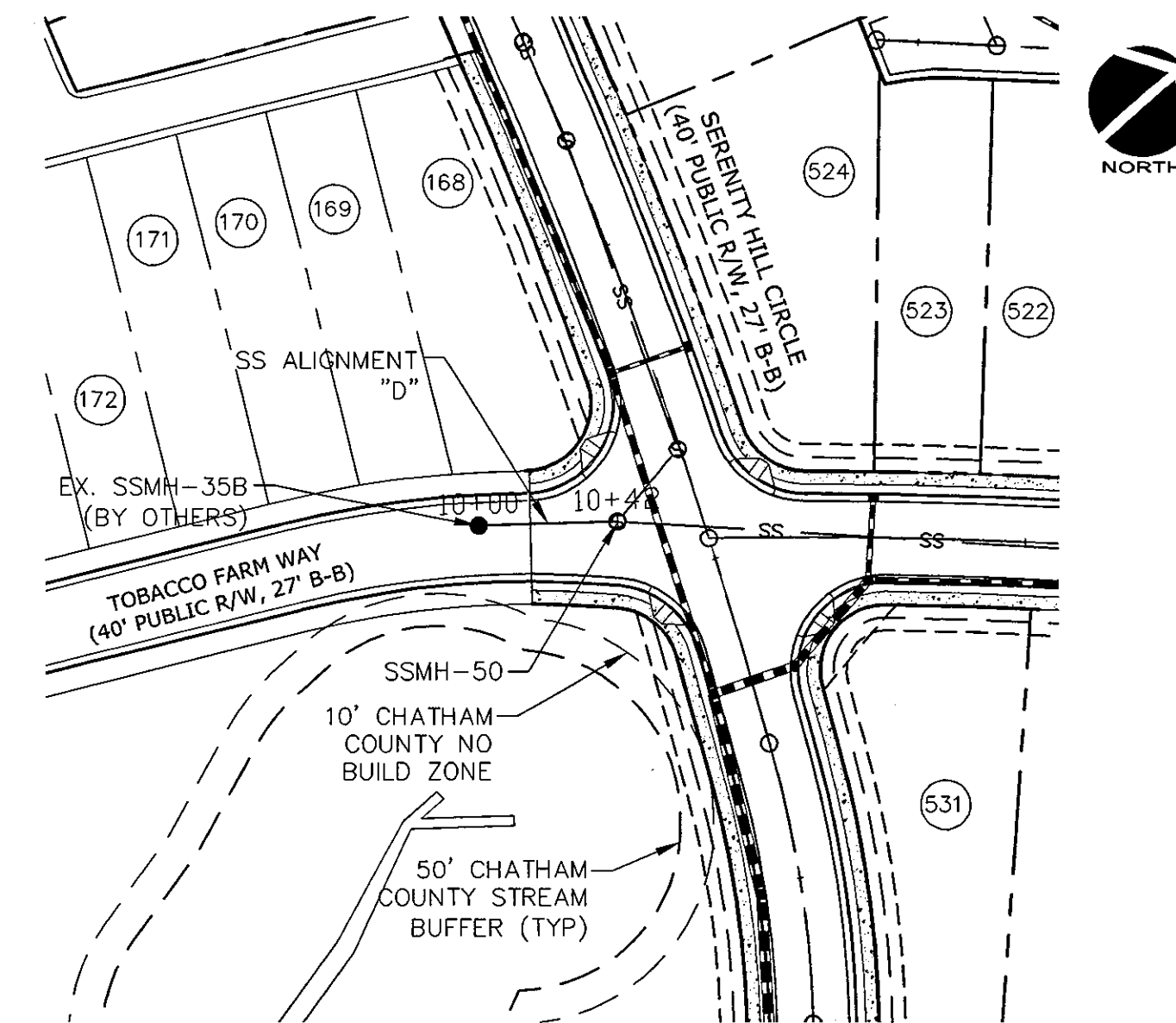
DATE: AUGUST 6, 2010	SCALE	MAC FILE NUMBER
MCE PROJ. # 02735-0069	HORIZONTAL:	CT716
DRAWN: CMB	1" = 50'	DRAWING NUMBER
DESIGNED: CMB	VERTICAL:	PP-18
CHECKED: GML	1" = 5'	
PROJ. MGR: GML		
STATUS: ISSUED FOR PERMIT	REVISION	3



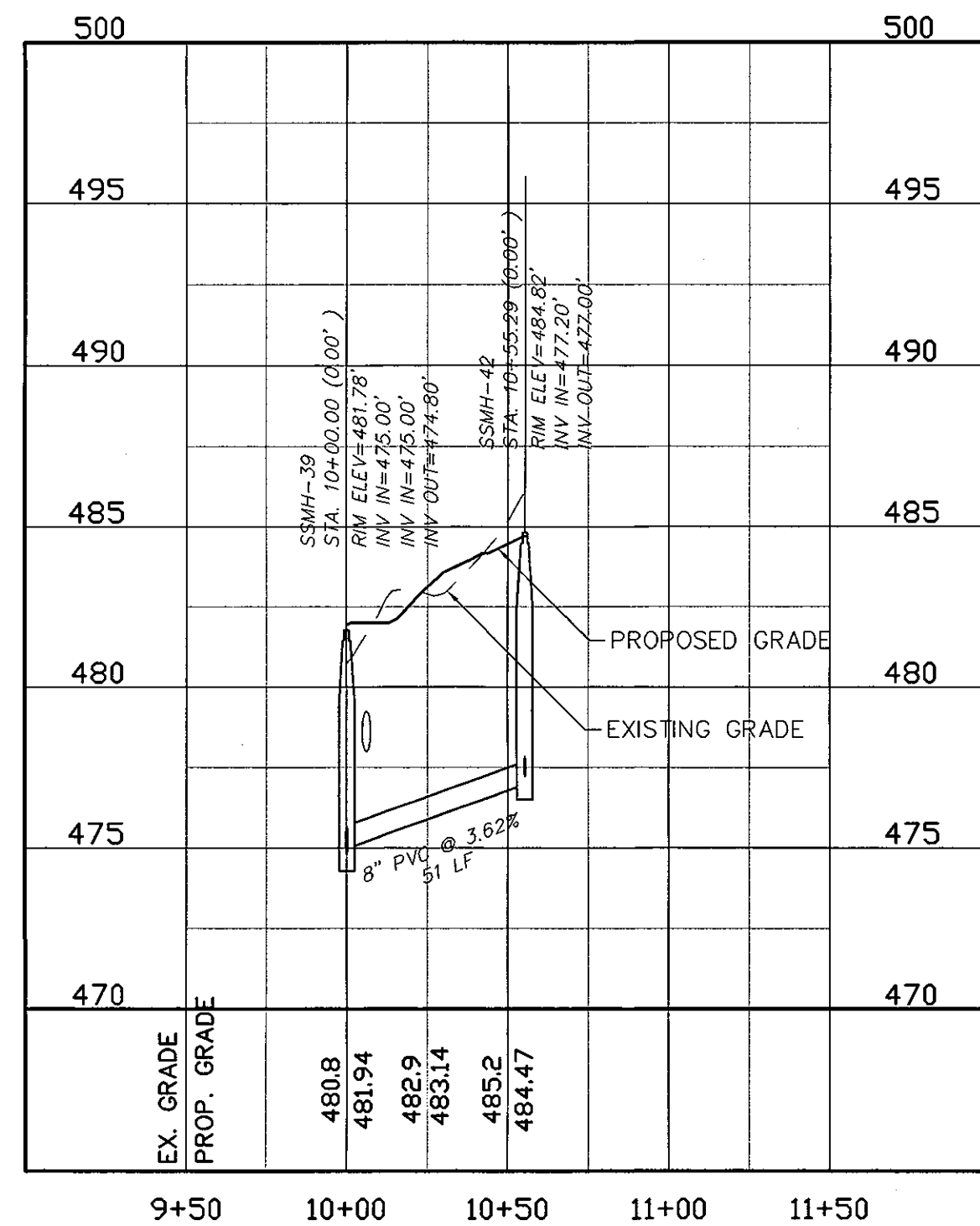
SANITARY SEWER ALIGNMENT "B" PLAN
 (PRIVATE SANITARY SEWER, STA. 10+00 TO 10+55)
 SCALE: 1"=50'



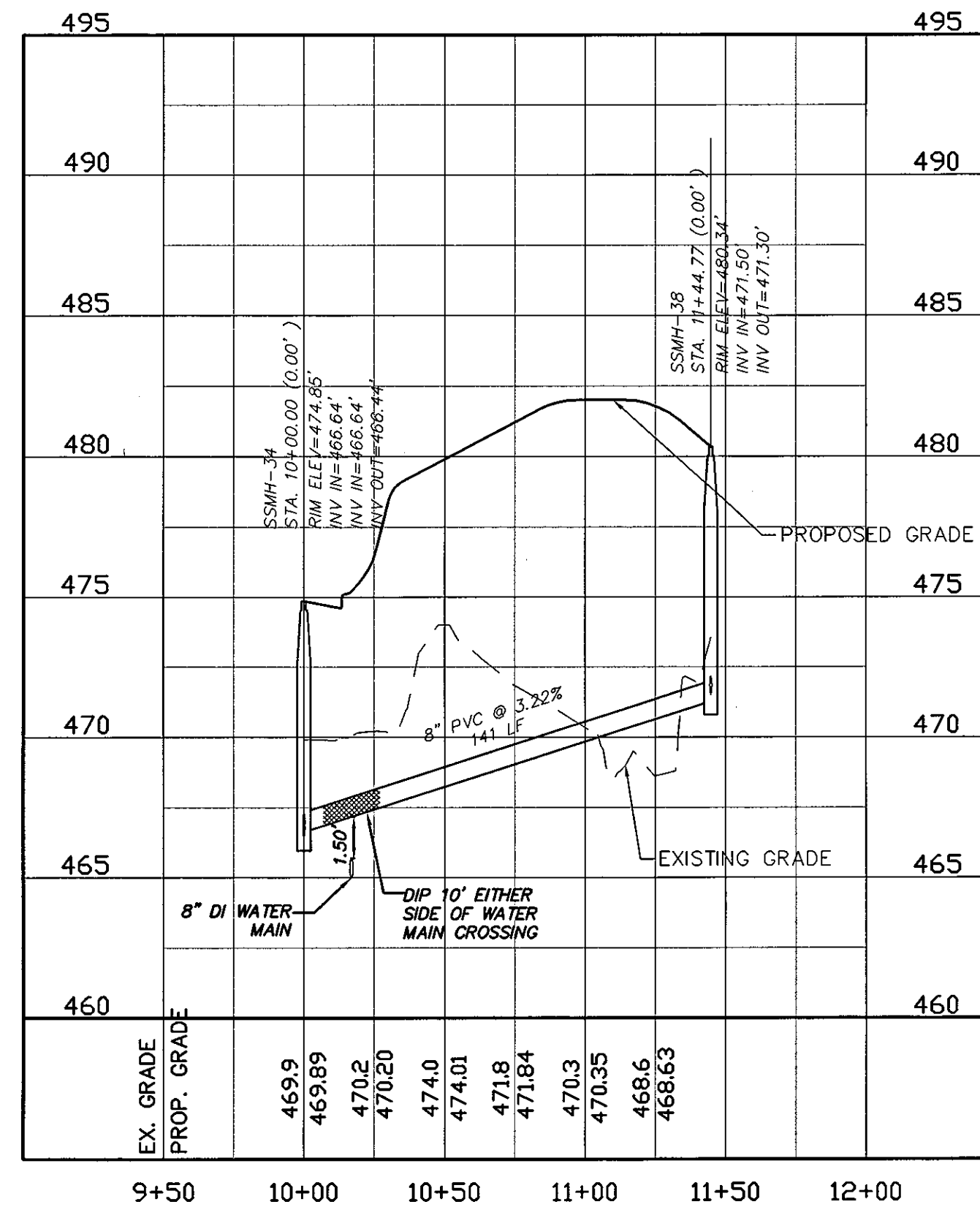
SANITARY SEWER ALIGNMENT "C" PLAN
 (20' PRIVATE SEWER EASEMENT, STA. 10+00 TO 11+45)
 SCALE: 1"=50'



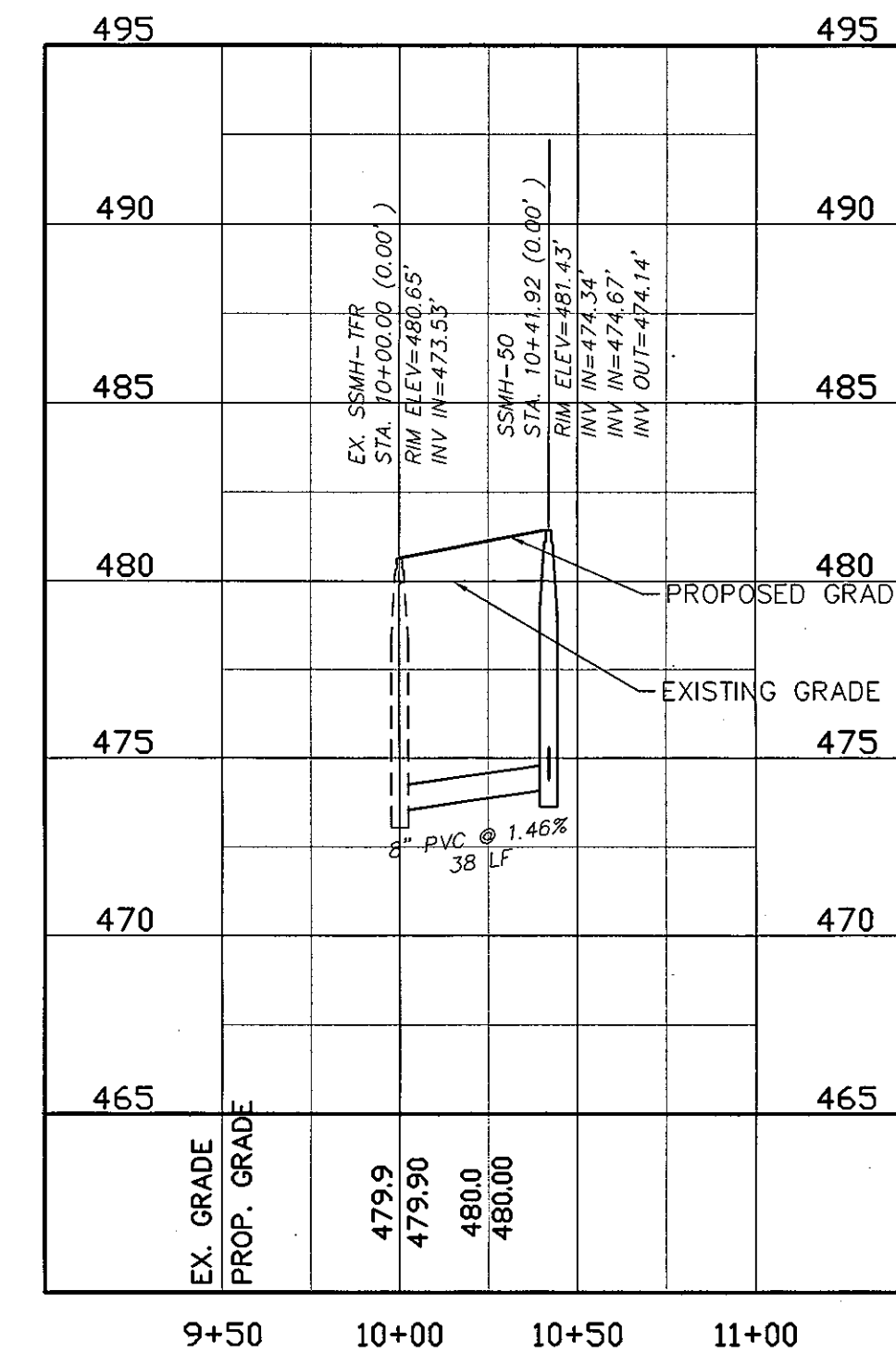
SANITARY SEWER ALIGNMENT "D" PLAN
 (PRIVATE SANITARY SEWER, STA. 10+00 TO 10+41)
 SCALE: 1"=50'



SANITARY SEWER ALIGNMENT "B"
 SCALE: (H) 1"=50'
 (V) 1"=5'

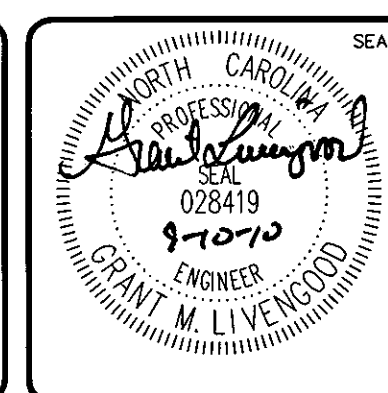
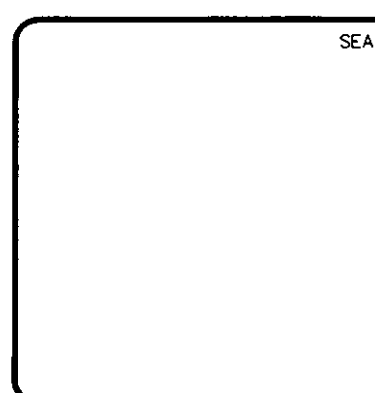


SANITARY SEWER ALIGNMENT "C"
 SCALE: (H) 1"=50'
 (V) 1"=5'



SANITARY SEWER ALIGNMENT "D"
 SCALE: (H) 1"=50'
 (V) 1"=5'

REVNO.	DESCRIPTIONS	DATE
4	PRELIMINARY PLAN SUBMITTAL TO CHATHAM COUNTY PLANNING	09/10/2010
3	REVISED PER NOCDAR PWS COMMENTS DATED 09/04/10	09/28/2010
2	REVISED PER SANITARY SEWER OUTFALL REVISIONS	08/16/2010
1	SUBMITTAL TO CLIENT FOR REVIEW	08/06/2010

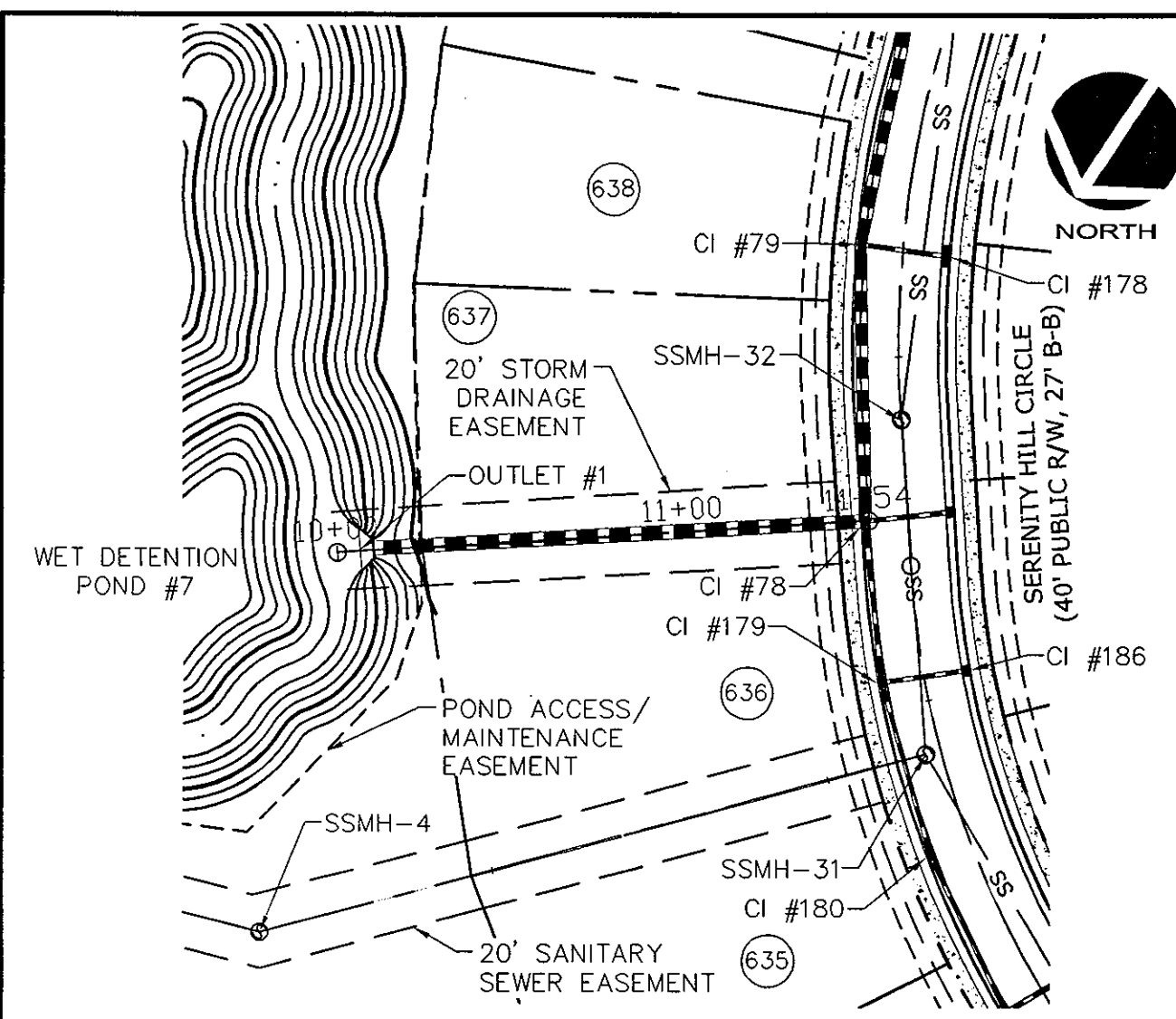


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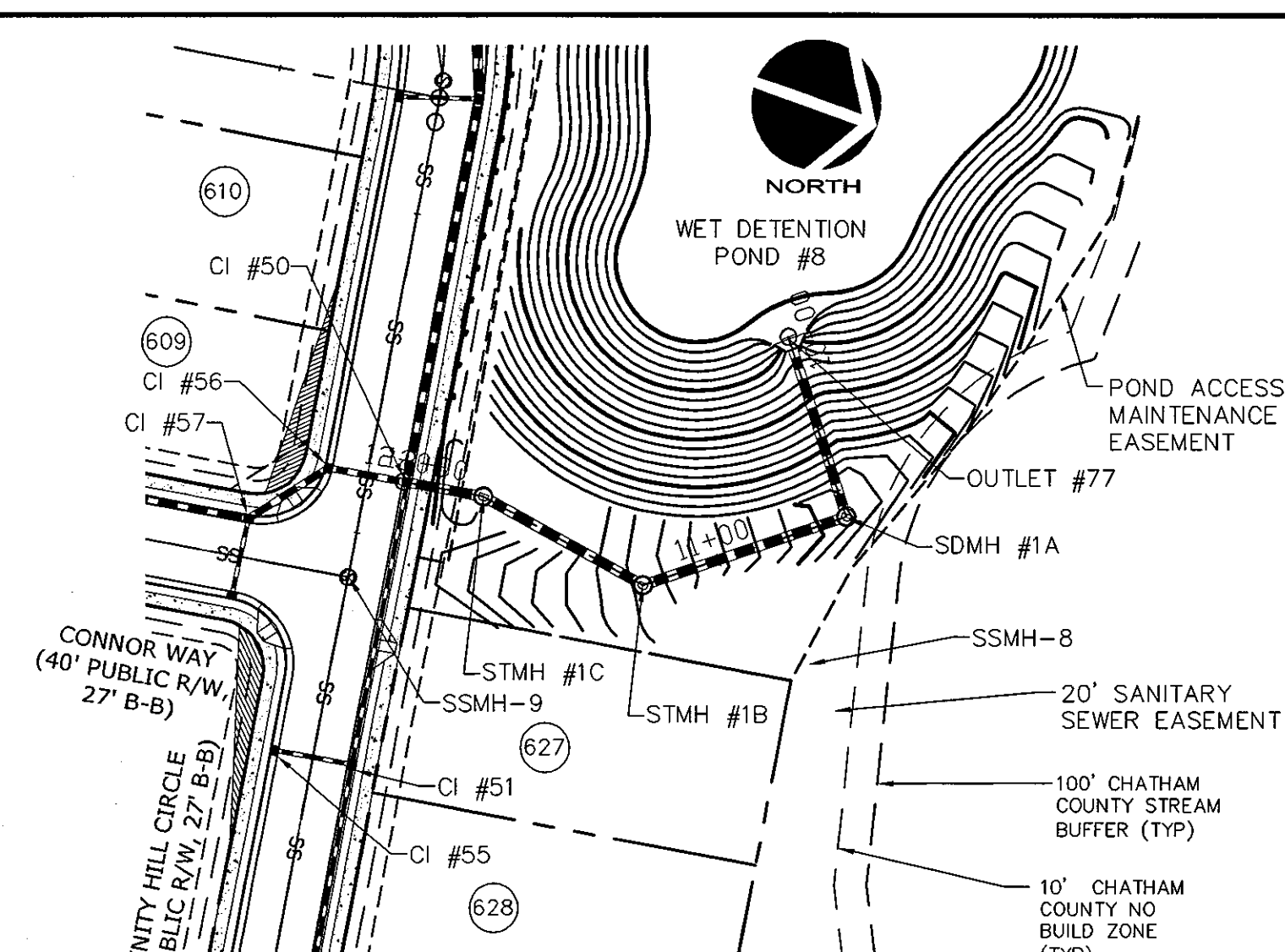
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**BRIAR CHAPEL
 PHASE 5 NORTH
 CHATHAM COUNTY, NORTH CAROLINA
 PLAN AND PROFILE
 SANITARY SEWER ALIGNMENTS "B", "C", "D"**

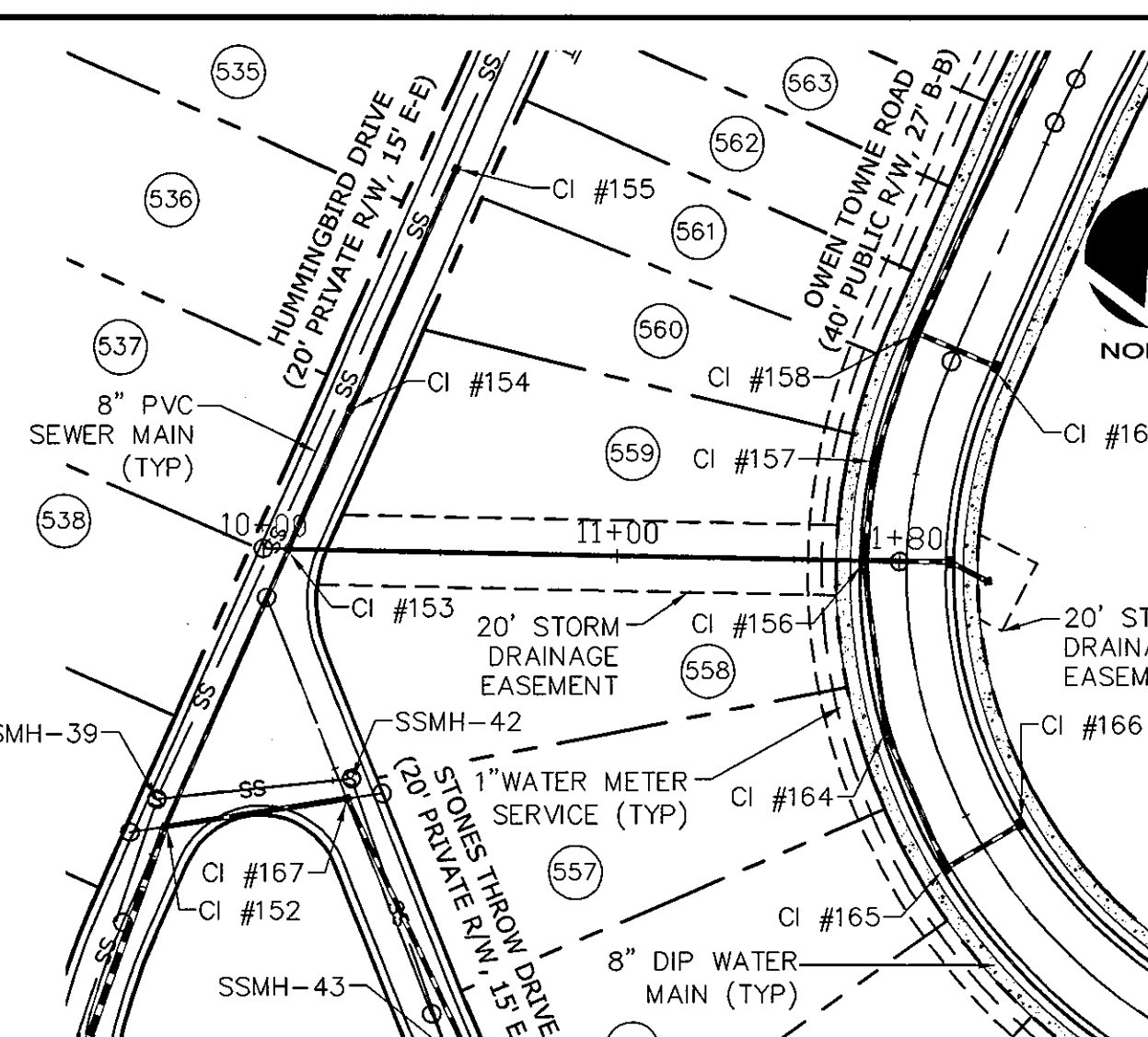
DATE: AUGUST 6, 2010	SCALE: 1" = 50'	M&C FILE NUMBER: CT717
M&C PROJ. # 02735-0089	HORIZONTAL: 1" = 50'	DRAWING NUMBER: PP-19
DRAWN: CMB	VERTICAL: 1" = 5'	
DESIGNED: CMB		
CHECKED: GML		
PROJ. MGR: GML		
STATUS: ISSUED FOR PERMIT	REVISION: 4	



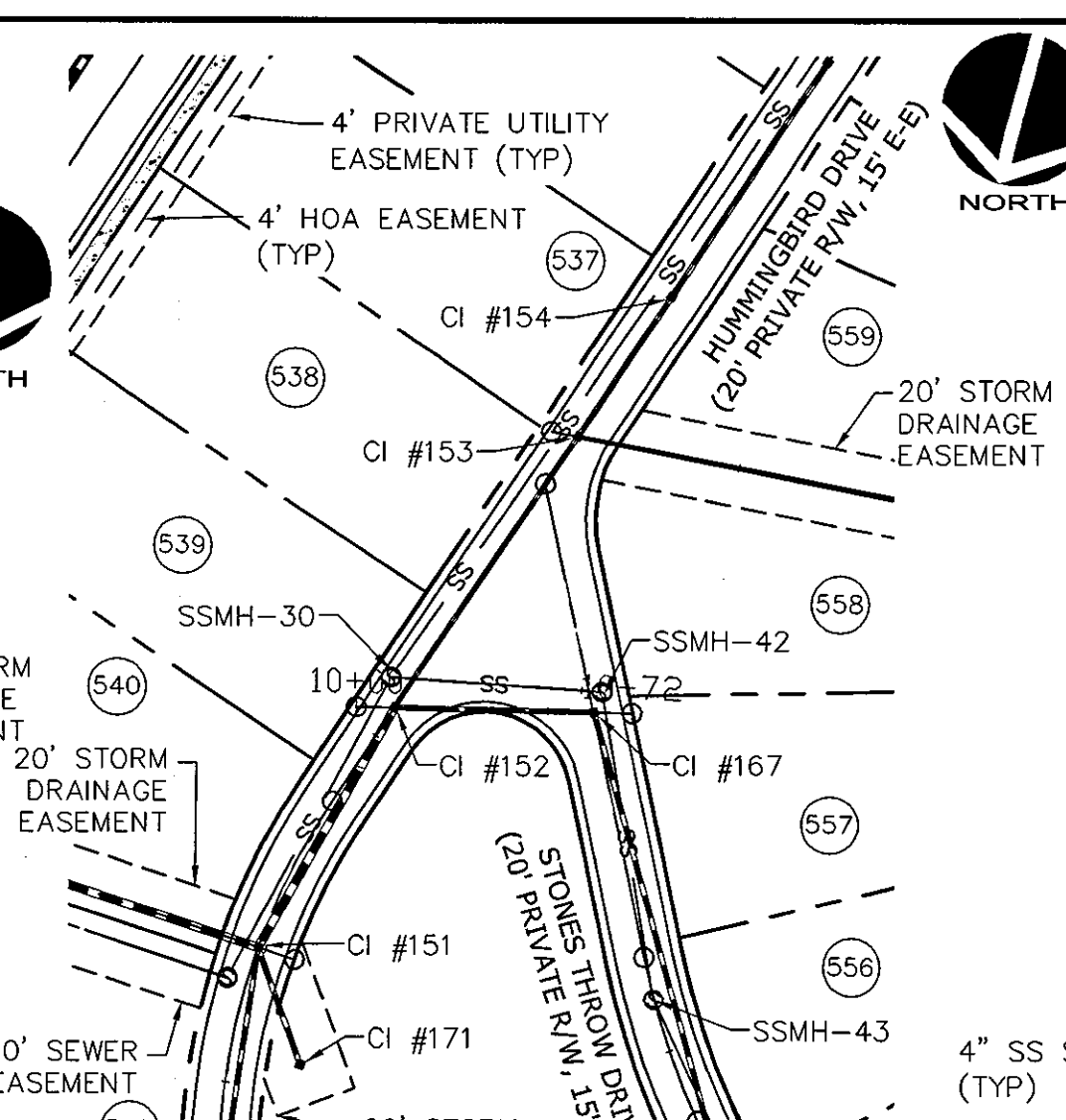
STORMWATER OUTFALL "A" PLAN
 (STA. 10+00 TO 11+53)
 SCALE: 1"=50'



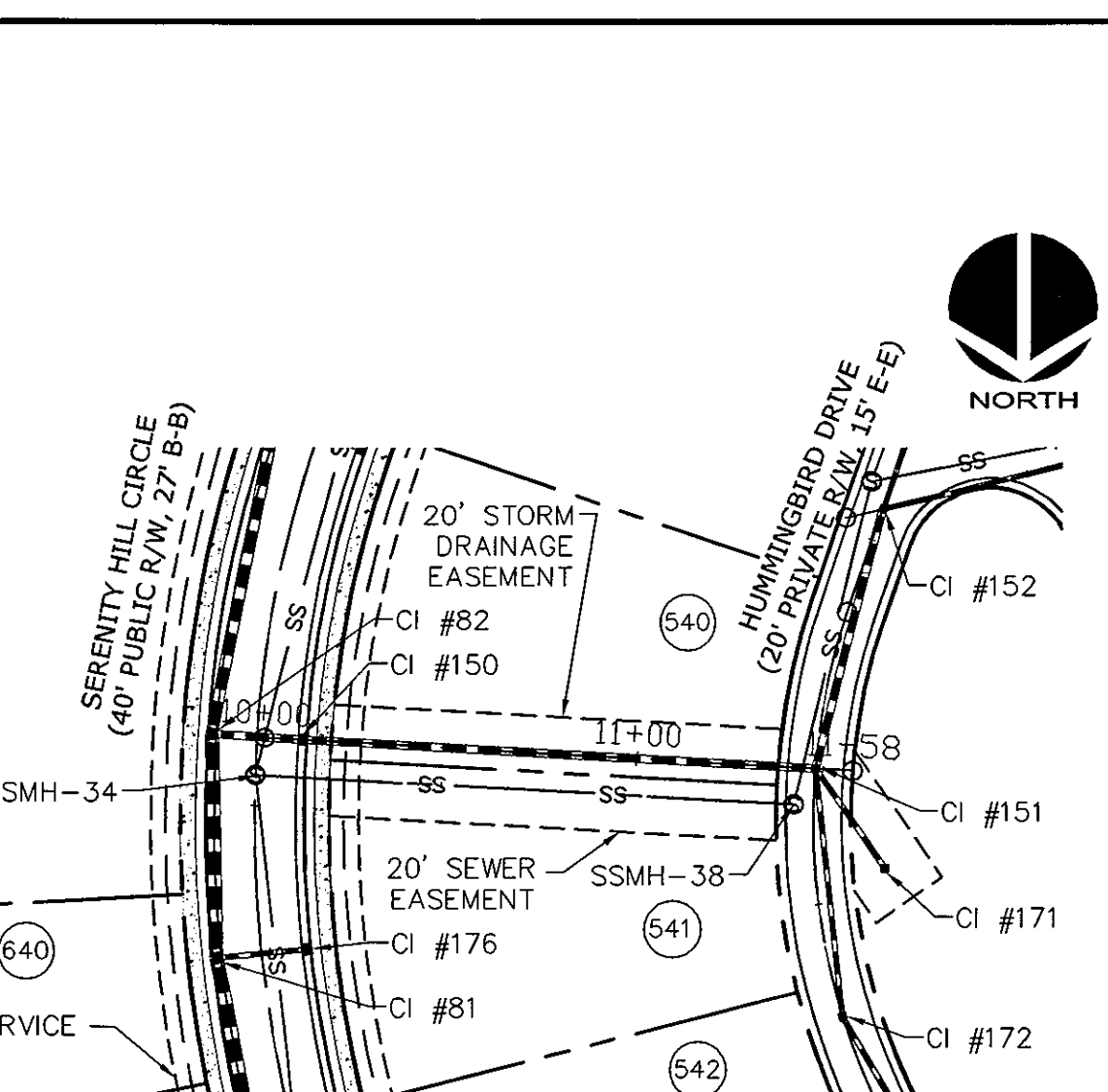
STORMWATER OUTFALL "B" PLAN
 (STA. 10+00 TO 12+05)
 SCALE: 1"=50'



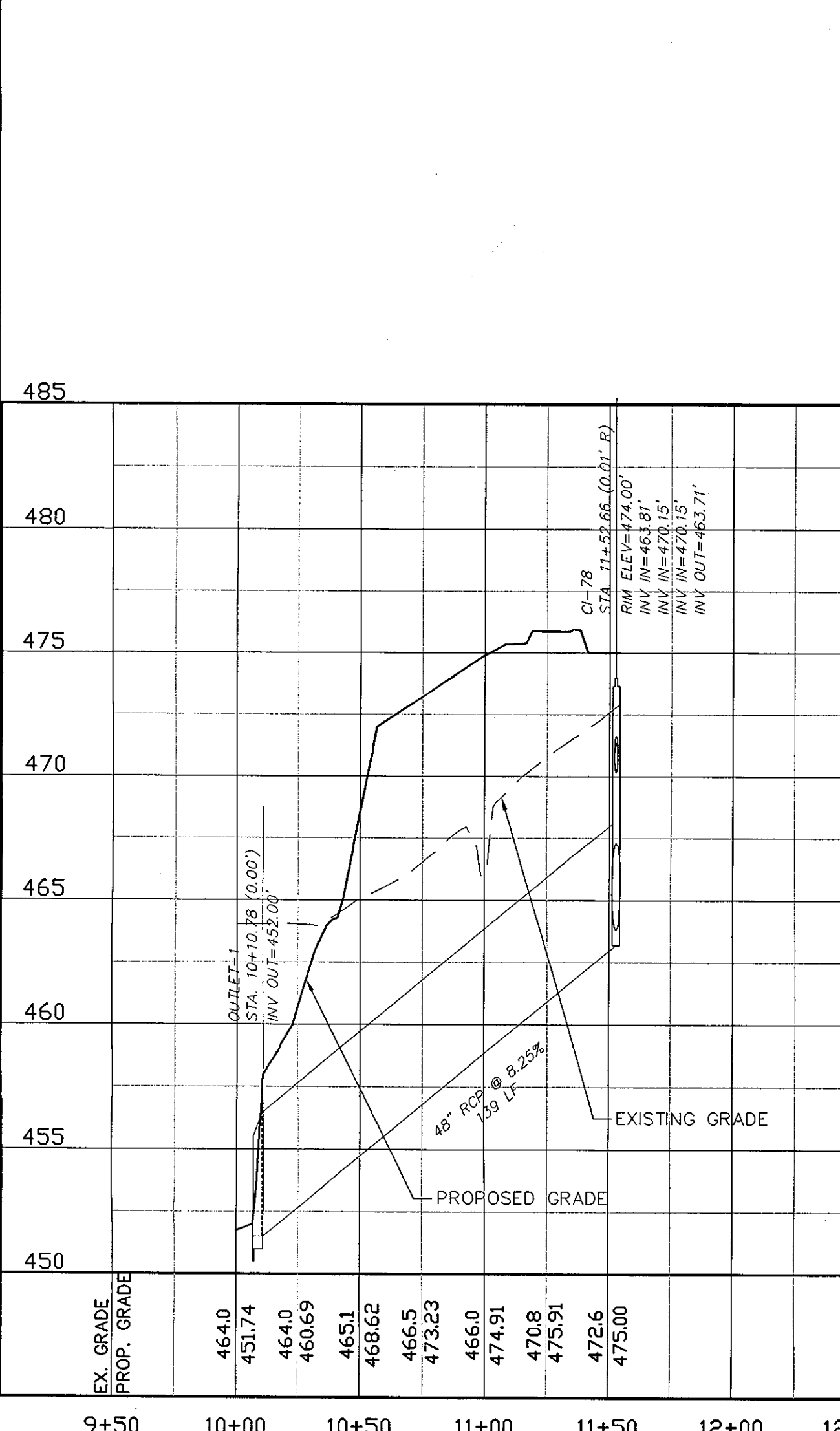
STORMWATER ALIGNMENT "C" PLAN
 (STA. 10+00 TO 11+70)
 SCALE: 1"=50'



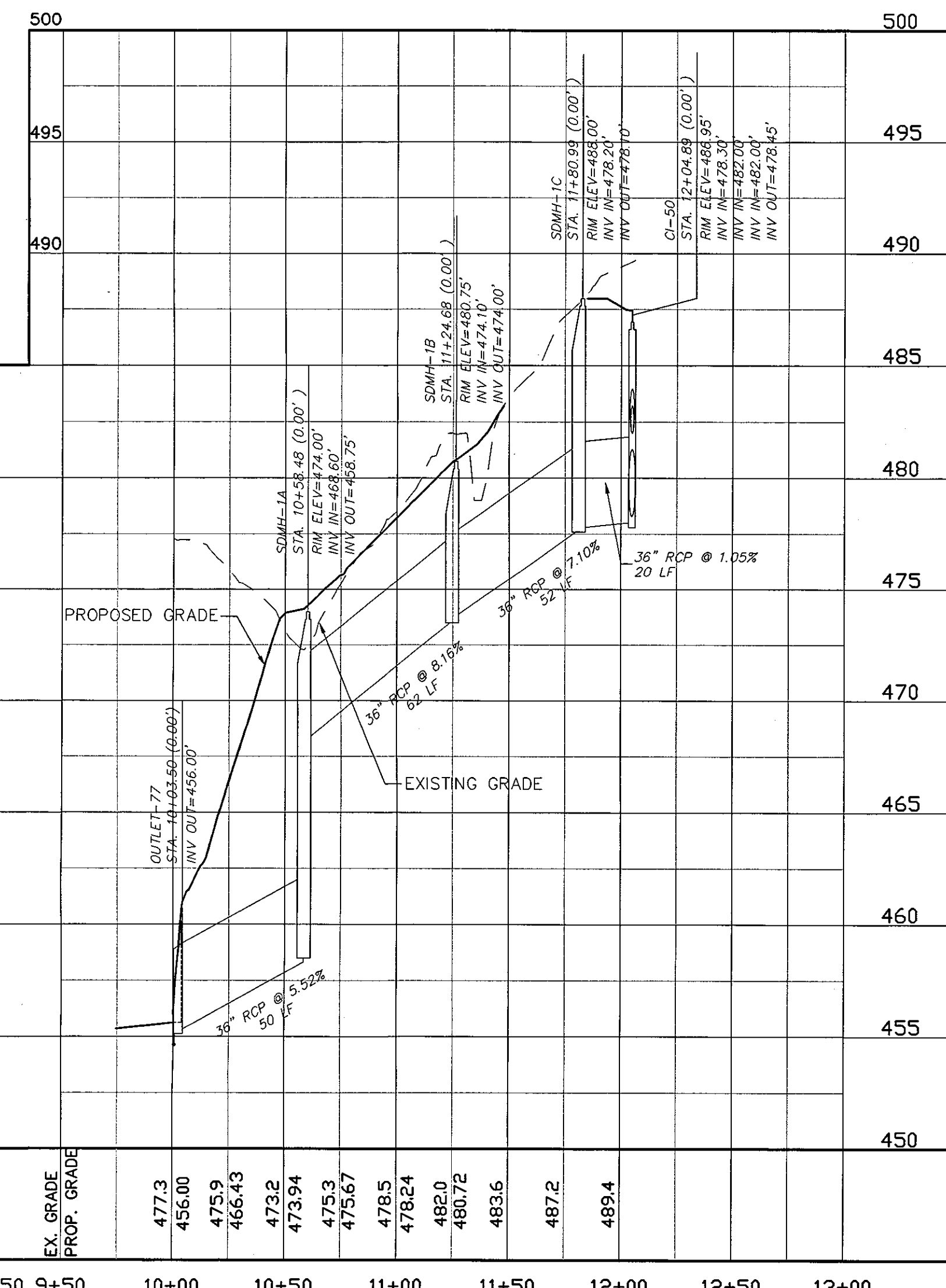
STORMWATER ALIGNMENT "D" PLAN
 (STA. 10+00 TO 10+62)
 SCALE: 1"=50'



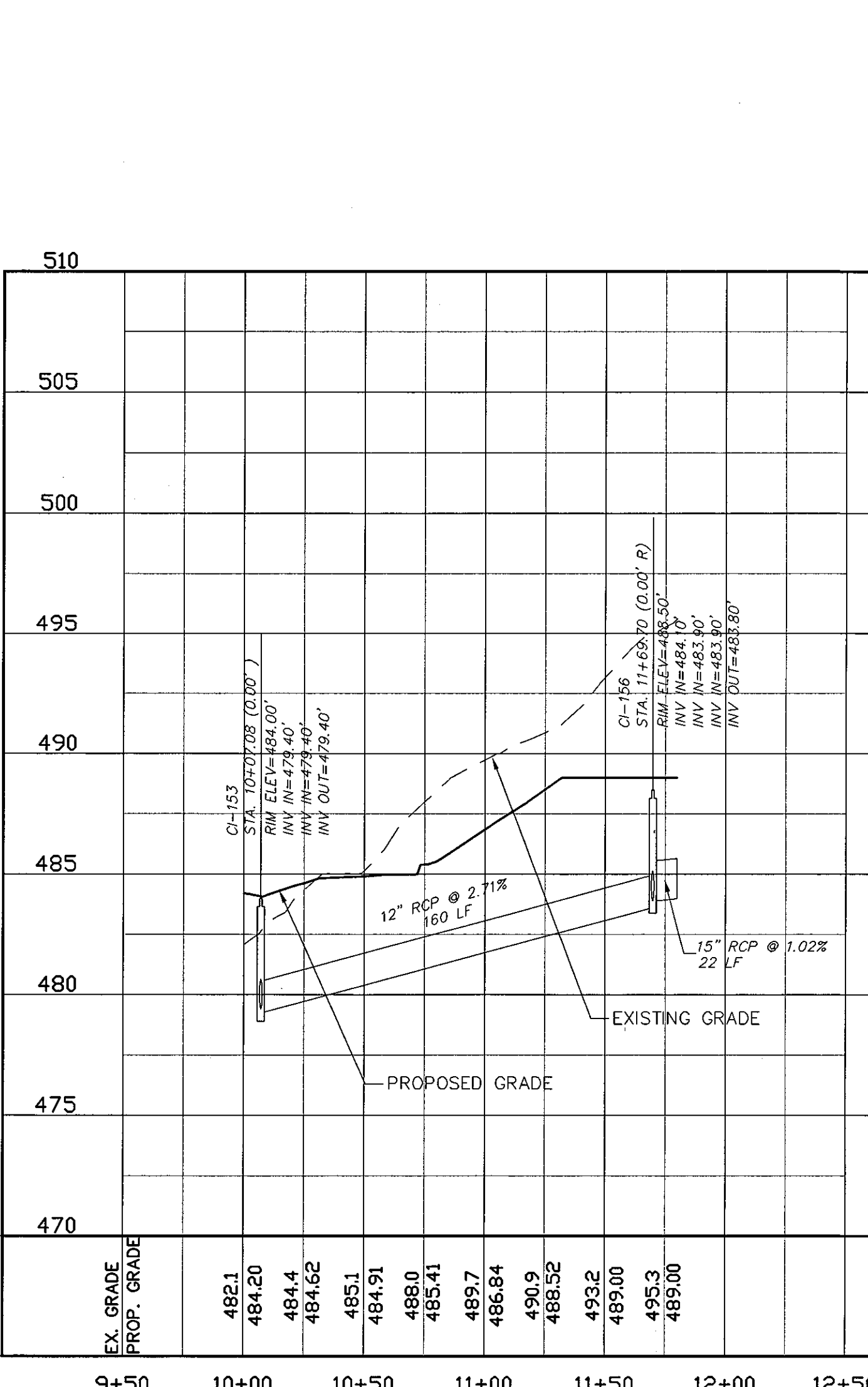
STORMWATER ALIGNMENT "E" PLAN
 (STA. 10+00 TO 11+48)
 SCALE: 1"=50'



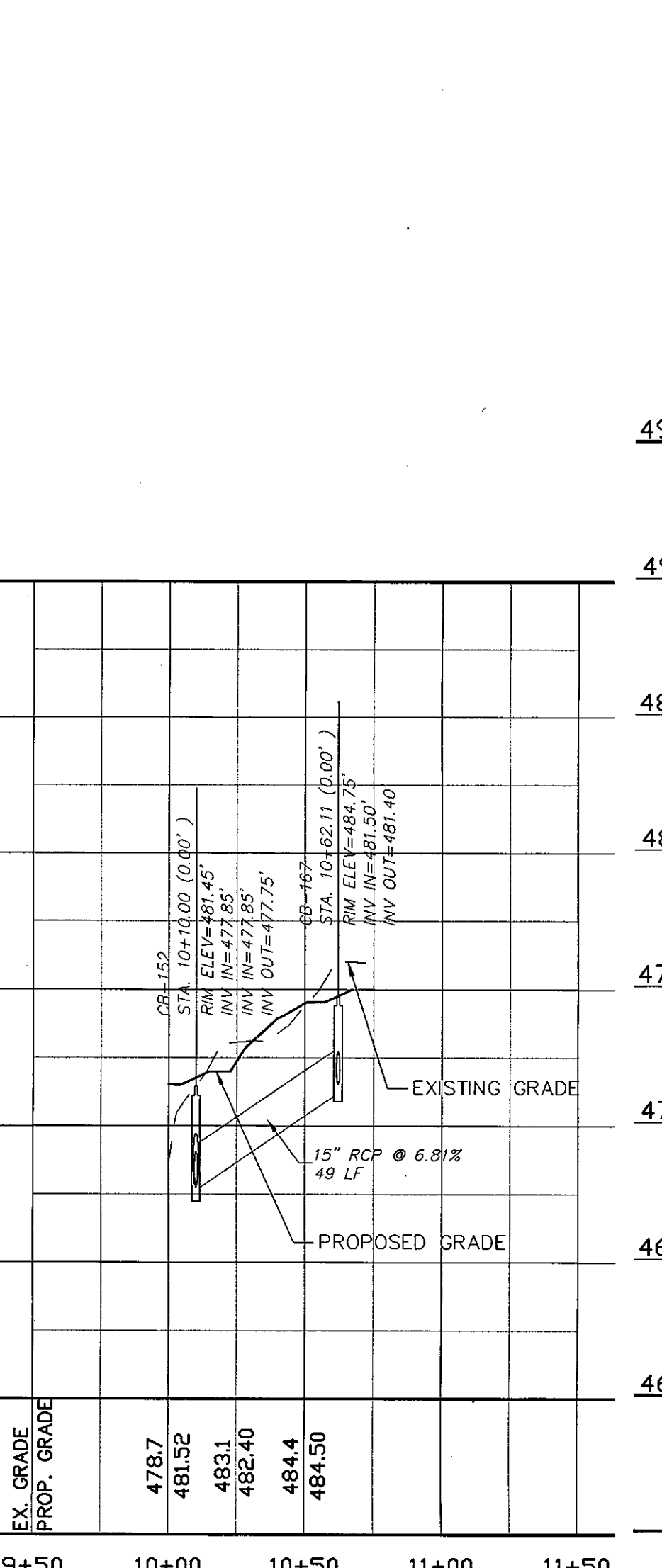
STORMWATER OUTFALL "A" PROFILE
 SCALE: (H) 1"=50'
 (V) 1"=5'



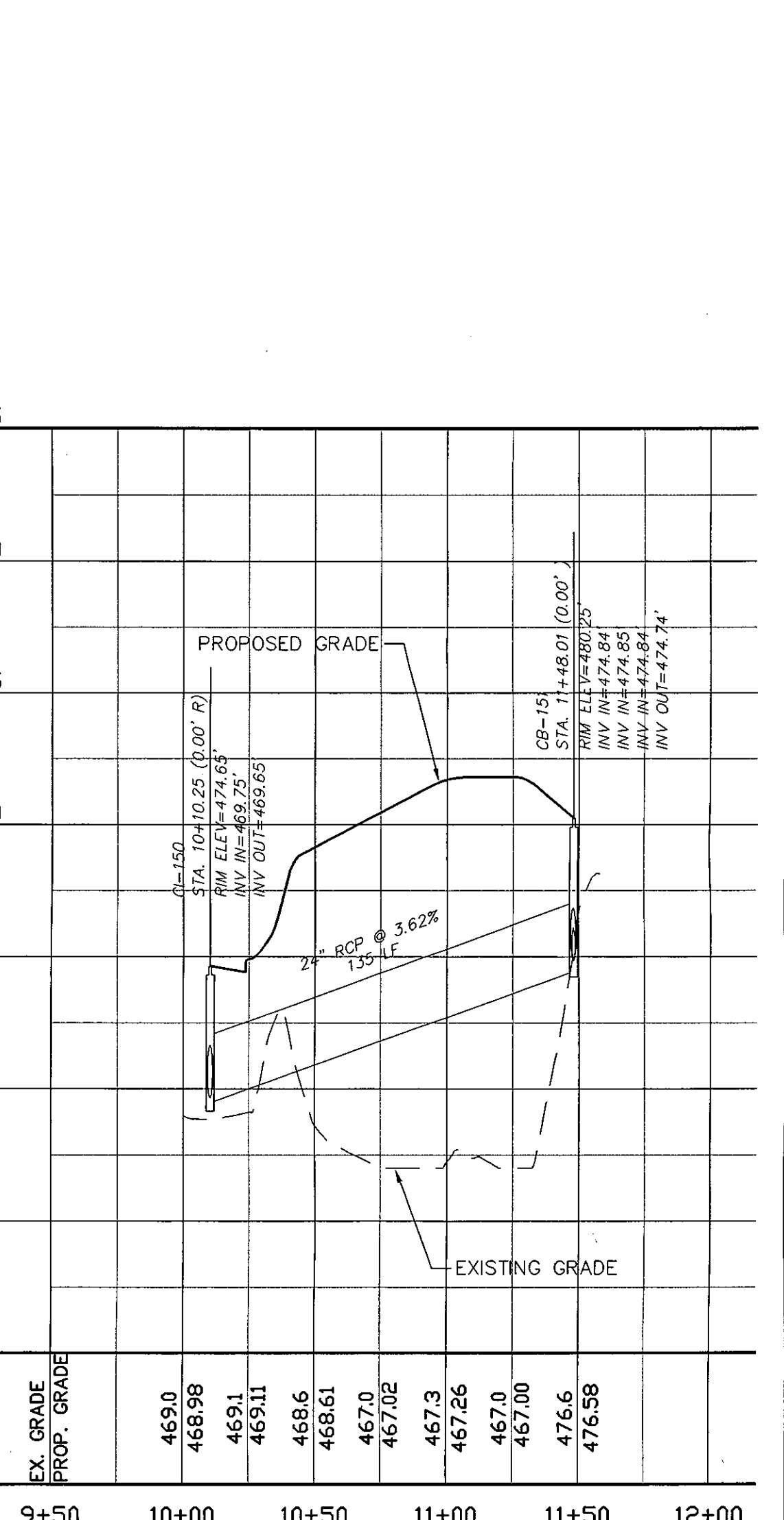
STORMWATER OUTFALL "B" PROFILE
 SCALE: (H) 1"=50'
 (V) 1"=5'



STORMWATER ALIGNMENT "C" PROFILE
 SCALE: (H) 1"=50'
 (V) 1"=5'

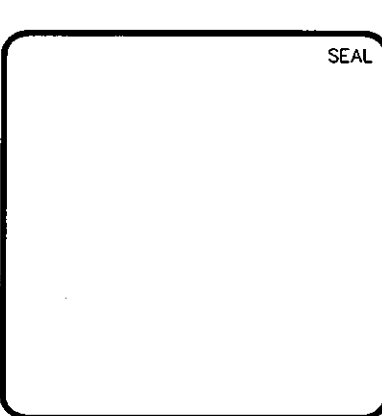


STORMWATER ALIGNMENT "D" PROFILE
 SCALE: (H) 1"=50'
 (V) 1"=5'



STORMWATER ALIGNMENT "E" PROFILE
 SCALE: (H) 1"=50'
 (V) 1"=5'

REV. NO.	DESCRIPTIONS	DATE
2	PRELIMINARY PLAT SUBMITTAL TO CHATHAM COUNTY PLANNING	09.10.2010
1	SUBMITTAL TO CLIENT FOR REVIEW	08.08.2010

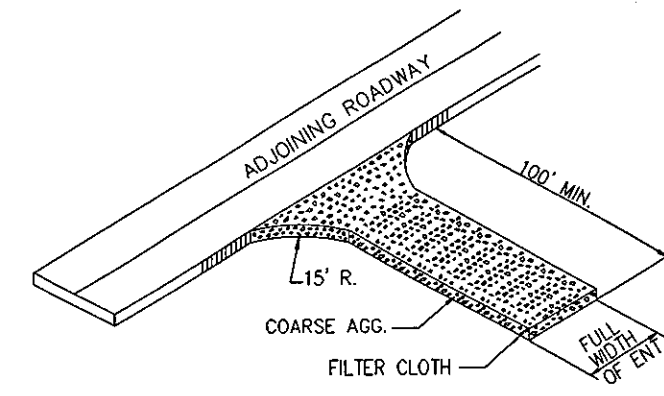


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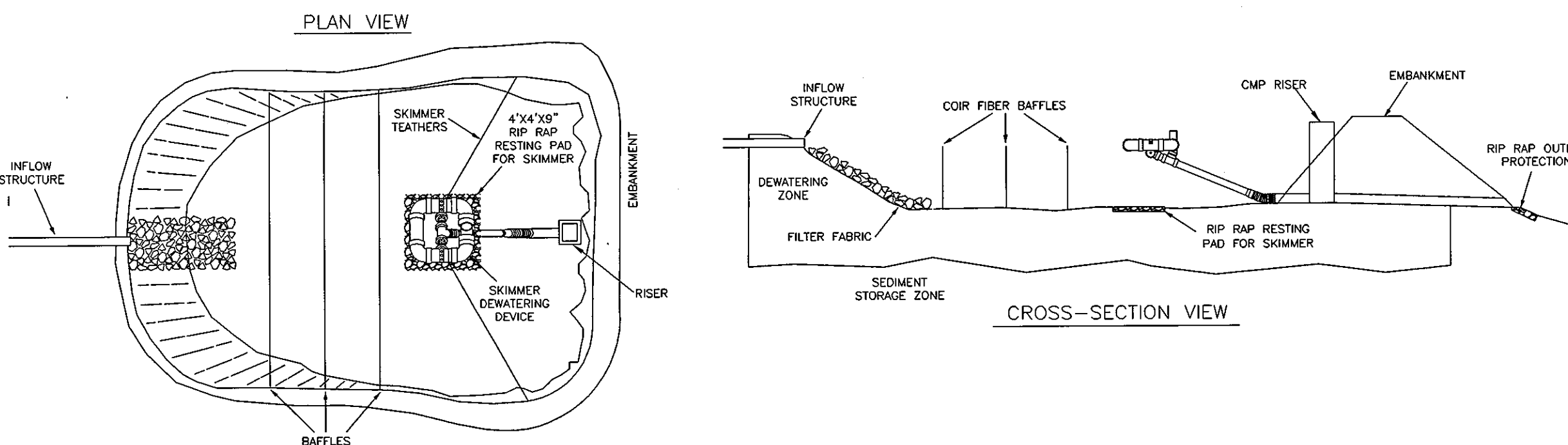
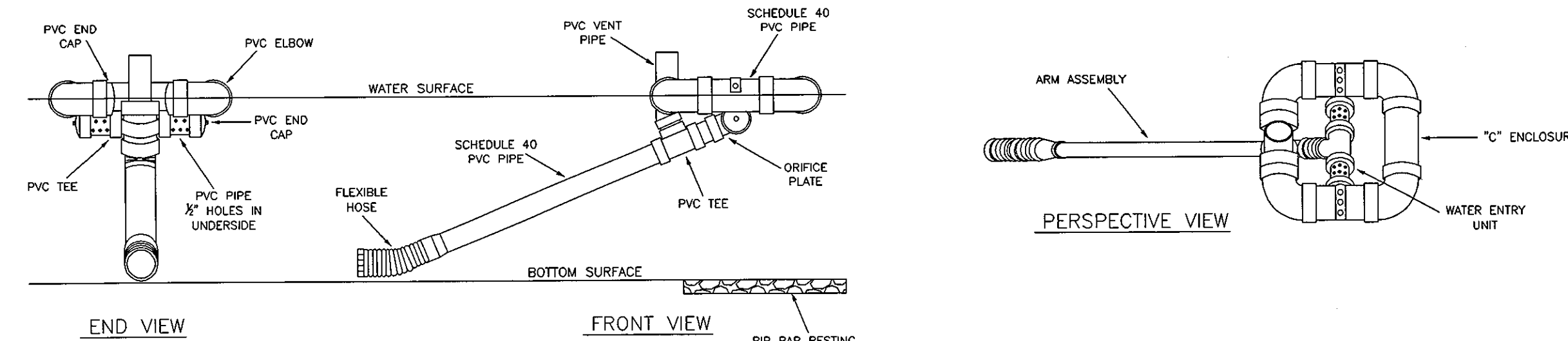
**BRIAR CHAPEL
 PHASE 5 NORTH
 CHATHAM COUNTY, NORTH CAROLINA
 PLAN AND PROFILE
 STORMWATER OUTFALLS "A" AND "B" AND
 ALIGNMENTS "C", "D", "E"**

DATE: AUGUST 6, 2010	SCALE: 1"=50'	M&C FILE NUMBER: CT718
M&C PROJ. # 02735-0089	HORIZONTAL: 1"=50'	DRAWING NUMBER: PP-20
DRAWN: CMB	VERTICAL: 1"=50'	
DESIGNED: CMB		
CHECKED: GML		
PROJ. MGR: GML		
STATUS: ISSUED FOR PERMIT		REVISION: 2

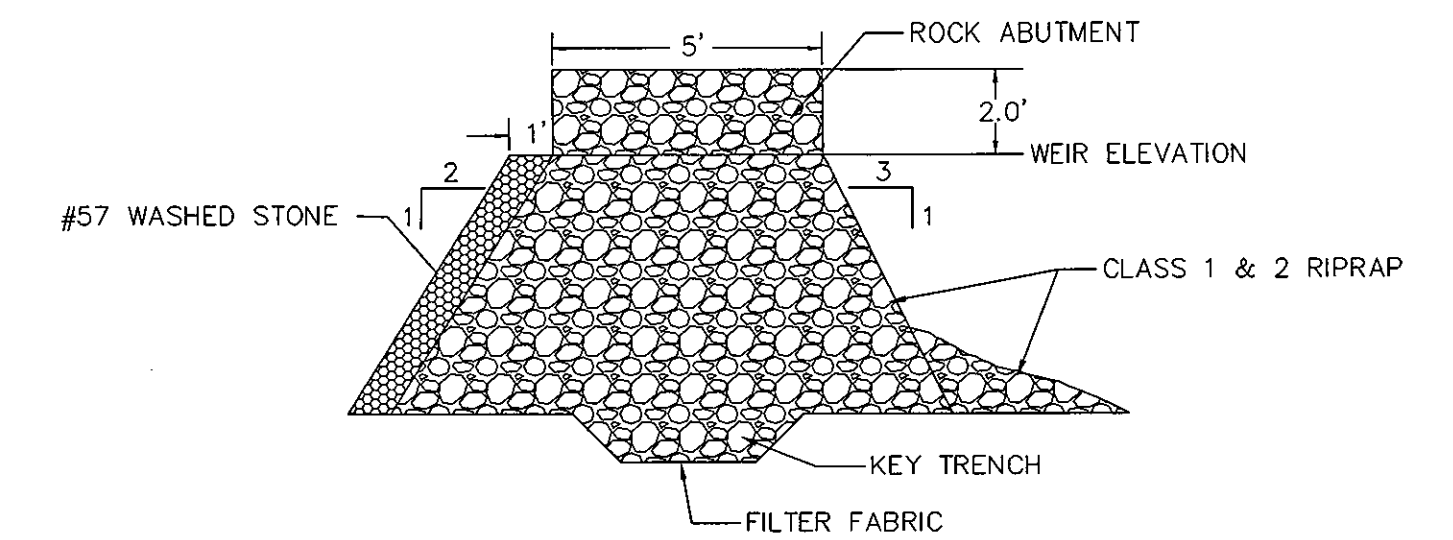
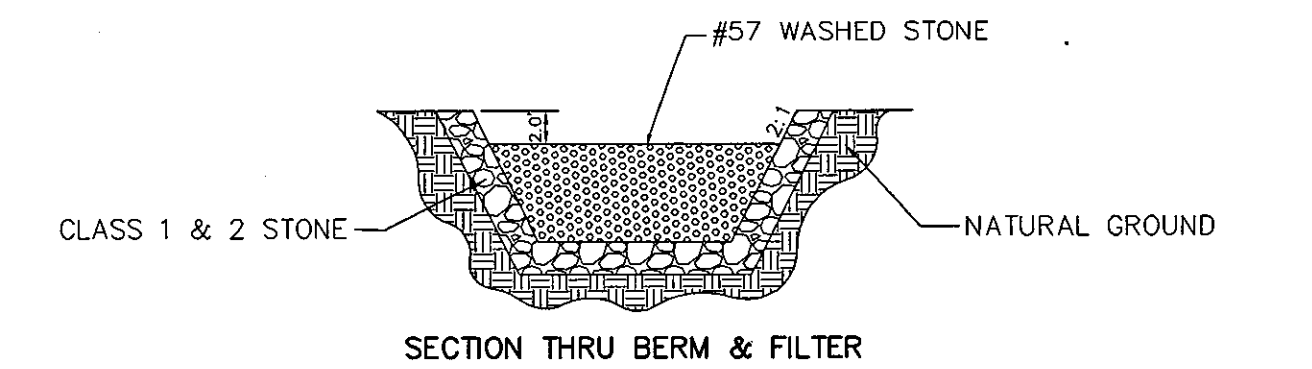


- COARSE AGGREGATE (2"-3" STONE) SHALL BE USED. PAD TO BE 50'L X 25'W X 6"D MIN. PLACE A MINIMUM OF 3" OF STONE IN A CUT SECTION TO HELP SECURE FILTER CLOTH.
- TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS IS TO BE PROVIDED.
- ENTRANCES SHOULD BE LOCATED TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.
- MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOP DRESSING MAY BE NECESSARY. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.
- TEMPORARY PADS MUST BE LOCATED ON EACH SIDE OF ADJOINING ROADWAY.

TEMPORARY CONSTRUCTION ENTRANCE
NTS



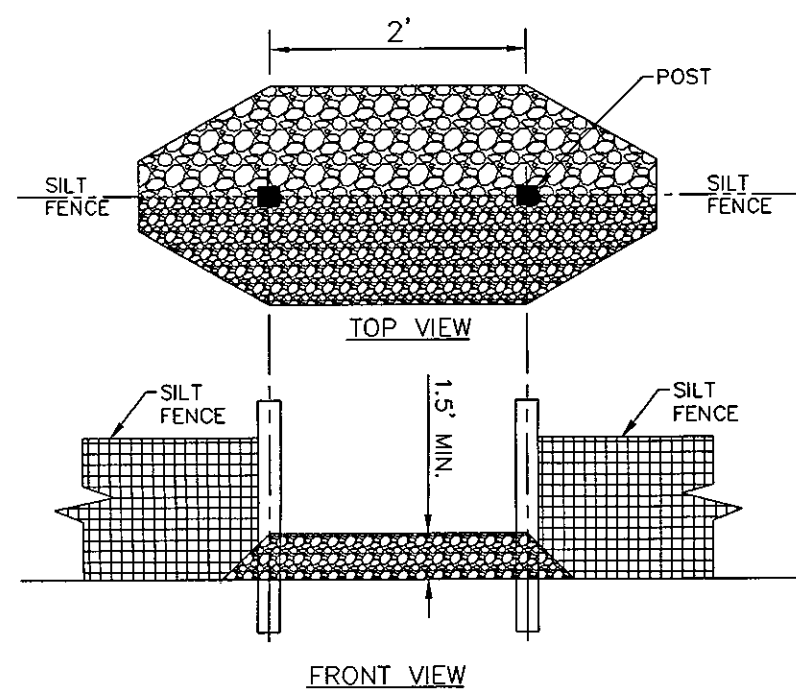
SKIMMER SEDIMENT BASIN WITH RISER
NTS



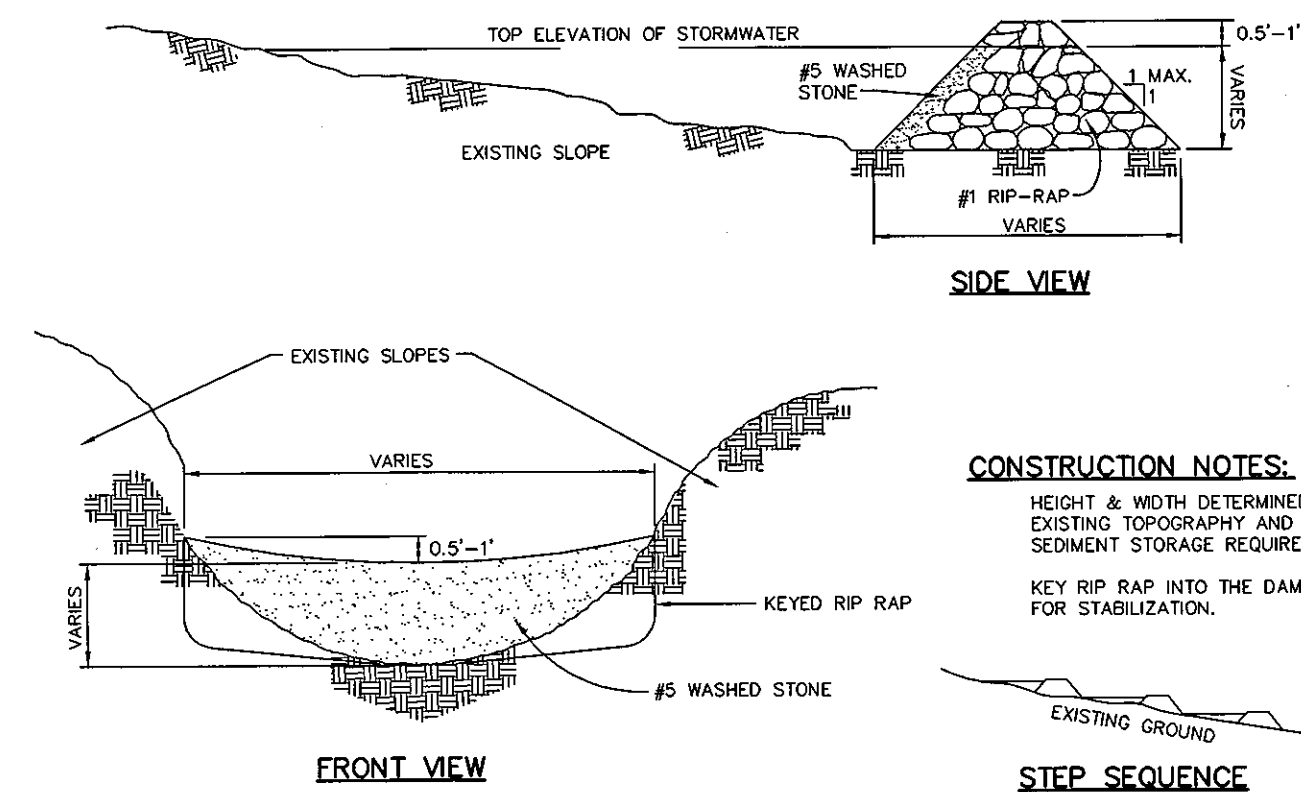
- CONSTRUCTION NOTES:**
- HEIGHT & WIDTH DETERMINED BY DIMENSIONS OF EXISTING SWALE
 - KEY RIP RAP INTO THE DAM FOR STABILIZATION.
 - REMOVE SEDIMENT ACCUMULATION FROM BEHIND ROCK SEDIMENT DAMS TO PREVENT DAMAGE TO CHANNEL VEGETATION. FLOW SHOULD BE MAINTAINED THROUGH THE DAM.

ROCK DAM
NTS

NOTE: STRUCTURAL STONE SHALL BE CLASS B STONE FOR EROSION CONTROL PURPOSES. SEDIMENT CONTROL STONE SHALL BE NO. 5 OF NO. 57 STONE.



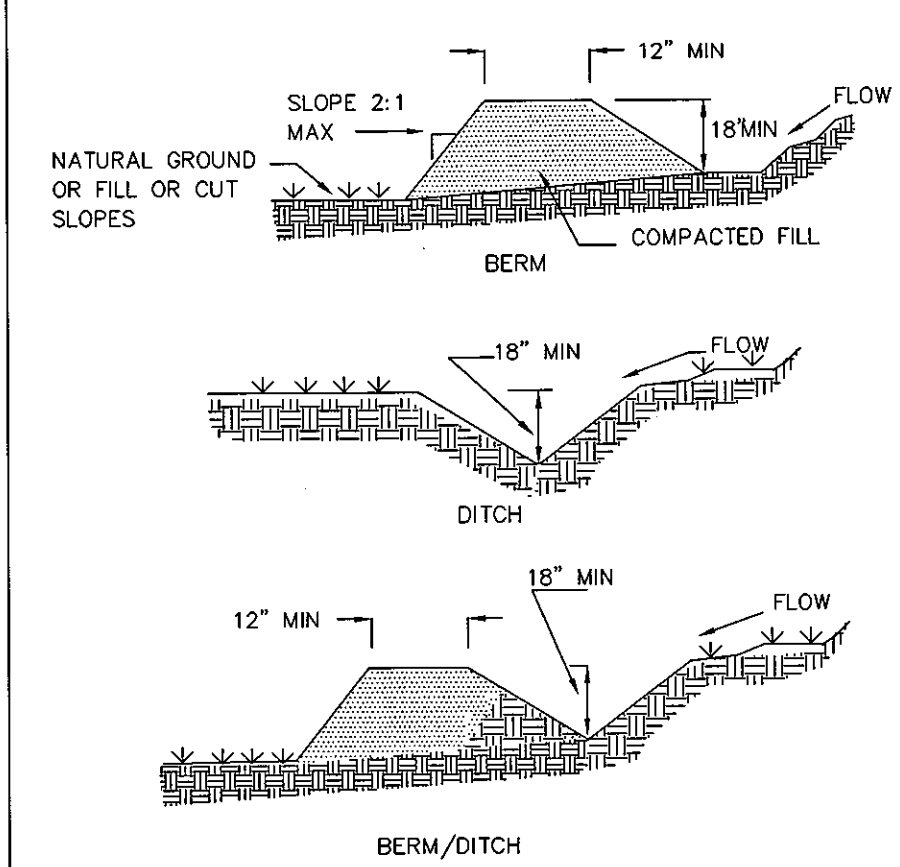
SILT FENCE OUTLET
NTS



CHECK DAM
NTS

- CONSTRUCTION NOTES:**
- HEIGHT & WIDTH DETERMINED BY EXISTING TOPOGRAPHY AND SEDIMENT STORAGE REQUIRED.
- KEY RIP RAP INTO THE DAM FOR STABILIZATION.

NOTE: REMOVE SEDIMENT ACCUMULATION FROM BEHIND CHECK DAMS TO PREVENT DAMAGE TO CHANNEL VEGETATION. FLOW SHOULD BE MAINTAINED THROUGH THE DAM.



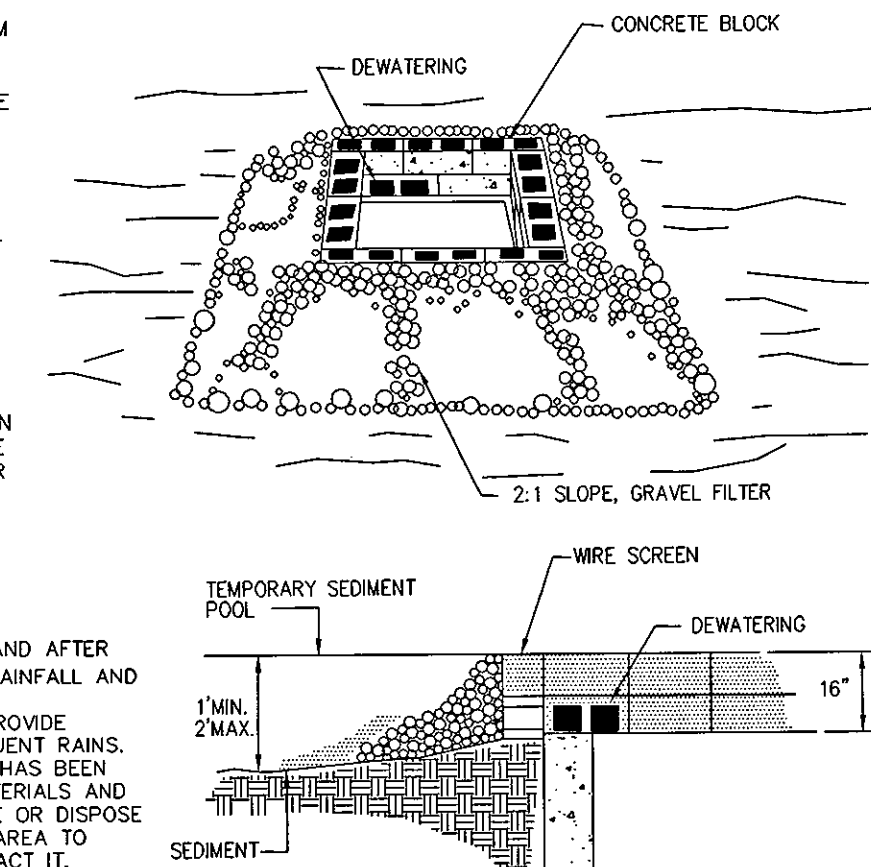
TEMPORARY DIVERSION DITCH
NTS

- NOTES:**
- POSITIVE GRADE MUST BE PROVIDED TO ASSURE DRAINAGE. IF SLOPE EXCEEDS 2%, SEED AND MULCH DIVERSION. TRY NOT TO EXCEED 5% MAXIMUM D.A. = 5 ACRES WITHOUT SUPPORTING CALCS. DIVERSIONS AT THE TOP OF SLOPES MUST EMPTY INTO AN APPROVED SLOPE DRAIN. BERM/DITCH IS MOST COMMONLY USED.
- MACHINE COMPACTION OF ALL FILL IS REQUIRED. DIVERSIONS SUFFICIENT TO DIRECT ALL SEDIMENT-LADEN STORMWATER INTO A SEDIMENT CONTROL DEVICE MUST BE INSTALLED PRIOR TO CLEARING AND GRUBBING OF THE AREA (OR IN CONJUNCTION WITH THIS OPERATION) IF SEDIMENT CONTROLS AND DIVERSIONS ARE INSTALLED AS EACH CRITICAL POINT IS REACHED.
 - DIVERSIONS SHOULD BE LOCATED TO MINIMIZE DAMAGES BY CONSTRUCTION OPERATIONS.
 - DIVERSIONS SHOULD BE SEEDED AND MULCHED IF THEY ARE TO REMAIN IN PLACE OVER 30 DAYS.
 - CHECK DEVICE AFTER EACH RAIN, BUT ONCE A WEEK REGARDLESS. REPAIR AS NECESSARY.

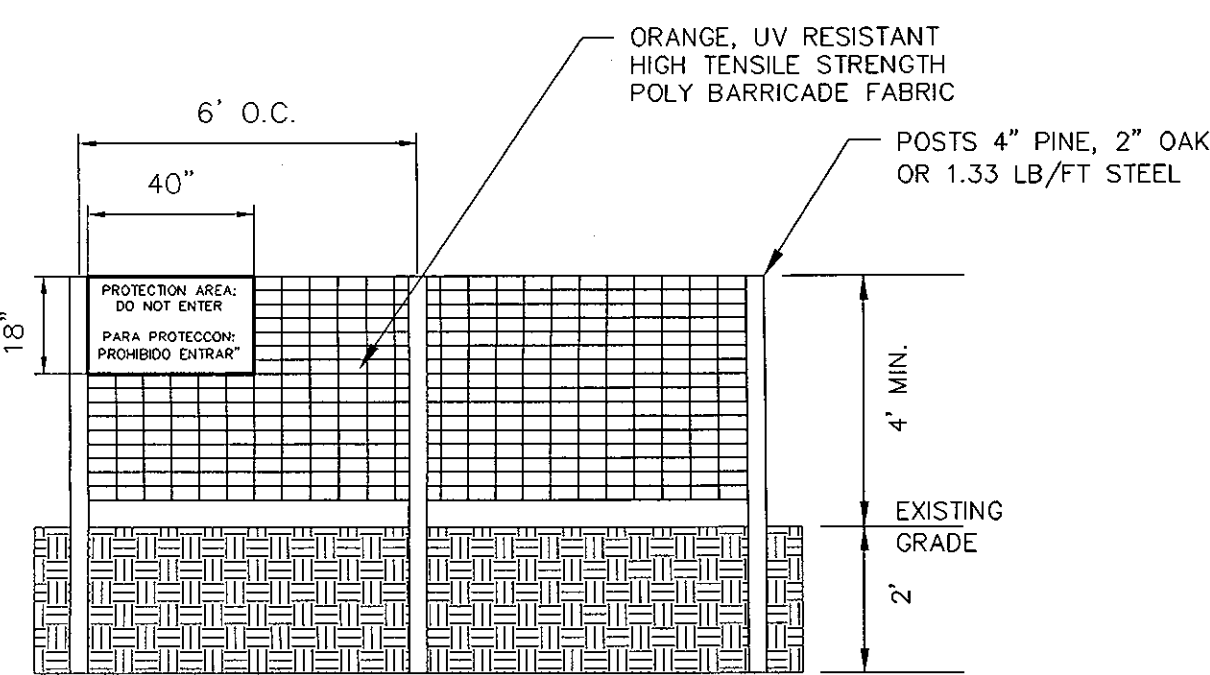
- MAINTENANCE**
- INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.

- CONSTRUCTION SPECIFICATIONS**
- LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE ON THE BOTTOM ROW TO ALLOW POOL DRAINAGE. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCH BELOW THE CREST OF THE STORM DRAIN. PLACE THE BOTTOM ROW OF THE BLOCK AGAINST THE EDGE OF THE STORM DRAIN FOR LATERAL SUPPORT AND TO AVOID WASHOUTS WHEN OVERFLOW OCCURS. IF NEEDED, GIVE LATERAL SUPPORT TO SUBSEQUENT ROWS BY PLACING 2x4 WOOD STUDS THROUGH BLOCK OPENINGS.
 - CAREFULLY FIT HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENING OVER ALL BLOCK OPENING TO HOLD GRAVEL IN PLACE.
 - USE CLEAN GRAVEL 3/4- TO 1/2-INCH IN DIAMETER, PLACED 2 INCHES BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER AND SMOOTH IT TO AN EVEN GRADE. DOT #57 WASHED STONE IS RECOMMENDED.

- MAINTENANCE**
- INSPECT THE BARRIER AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL AND MAKE REPAIRS AS NEEDED.
 - REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS.
 - WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

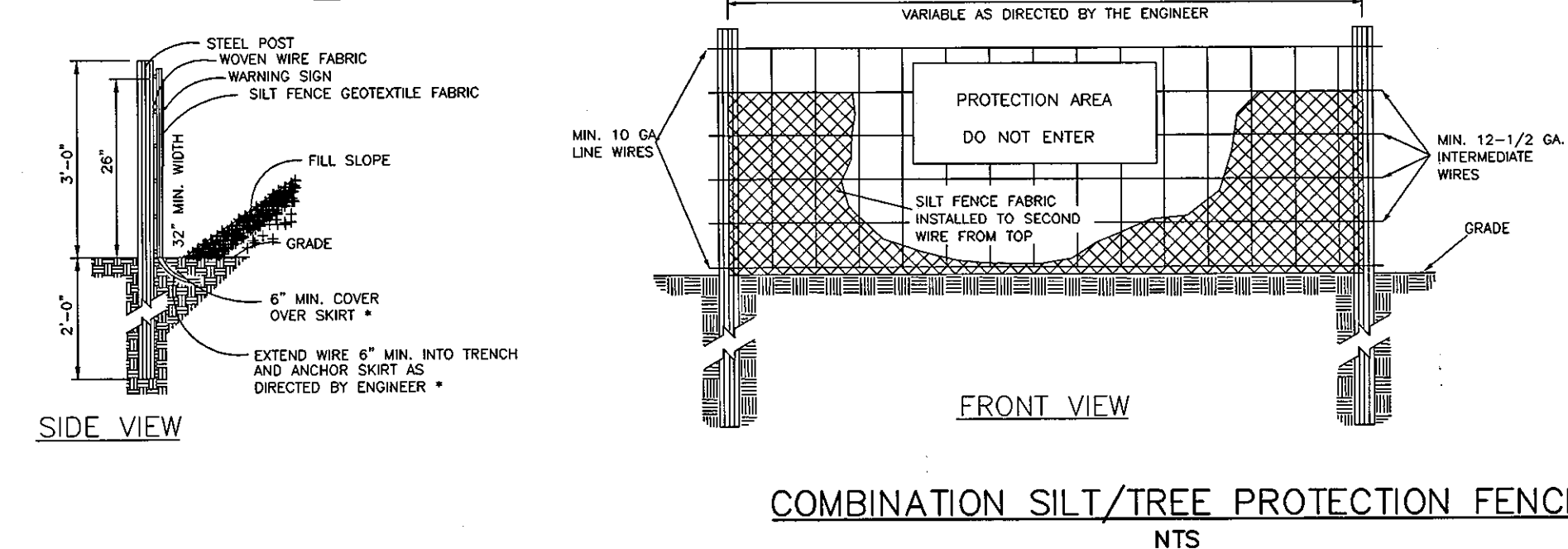
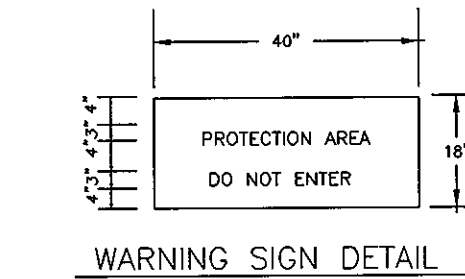


BLOCK & GRAVEL INLET PROTECTION
NTS



TREE PROTECTION FENCE
NTS

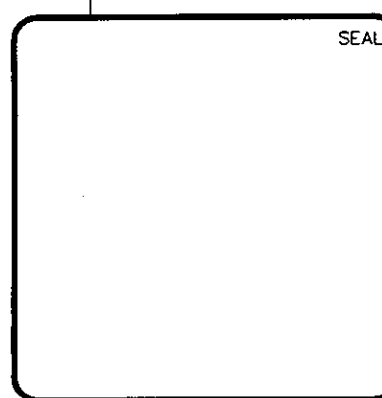
- WARNING SIGNS TO BE MADE OF DURABLE WATERPROOF PLASTIC.
- ALL LETTERS TO BE AT LEAST 3" HIGH, CLEARLY LEGIBLE AND SPACED APPROPRIATELY.
- SIGNS TO BE PLACED AT EACH END OF LINER PROTECTION AREA AND 200' ON CENTER (MAX.) THEREAFTER FOR PROTECTION AREA LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA AND/OR SIDE.
- ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC. FABRIC MUST BE ATTACHED TO APPROVED POSTS ONLY. DO NOT ATTACH TO TREES.
- ADDITIONAL FENCING MAY BE REQUIRED BASED ON FIELD CONDITIONS.
- FAILURE TO MAINTAIN PROTECTION FENCING MAY RESULT IN CIVIL PENALTIES.



COMBINATION SILT/TREE PROTECTION FENCE
NTS

- NOTES:**
- WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL.
 - LETTERS TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
 - SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS.
 - PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER.
 - FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA.
 - ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
 - MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.
 - ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF RALEIGH INSPECTIONS DEPARTMENT BASED ON ACTUAL FIELD CONDITIONS.
 - PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER.
 - FOR CONDITIONS WHERE PRACTICE APPLIES; PLANNING CONSIDERATIONS (HOWEVER FLOW SHALL NOT RUN PARALLEL WITH THE FENCE) AND DESIGN CRITERIA.
 - END OF SILT FENCE NEEDS TO BE TURNED UPHILL.
 - SEE N.C. STATE DENR PRACTICE & SPECIFICATION SEDIMENTS FENCE SECTION FOR CONDITIONS WHERE PRACTICE APPLIES; PLANNING CONSIDERATIONS.
 - SEE N.C. STATE DENR PRACTICE & SPECIFICATION SEDIMENTS FENCE SECTION. (HOWEVER FLOW SHALL NOT RUN PARALLEL WITH THE FENCE)

REV.	DESCRIPTION	DATE
2	PRELIMINARY PLAN SUBMITTAL TO CHATHAM COUNTY PLANNING	09.10.2010
1	SUBMITTAL TO CLIENT FOR REVIEW	08.08.2010



MCKIM & CREED
1730 Varsity Drive, Suite 500
Raleigh, North Carolina 27606
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by
Newland COMMUNITIES

**BRIAR CHAPEL
PHASE 5 NORTH
CHATHAM COUNTY, NORTH CAROLINA**
EROSION AND SEDIMENTATION CONTROL
DETAILS

DATE: AUGUST 6, 2010	SCALE: HORIZONTAL: NA	MAC FILE NUMBER: CE501
MCE PROJ # 02735-0069	VERTICAL: NA	DRAWING NUMBER: D-1
DRAWN: CMB	DESIGNED: CMB	CHECKED: GML
PROJ. MGR: GML	STATUS: ISSUED FOR PERMIT	REVISION: 2