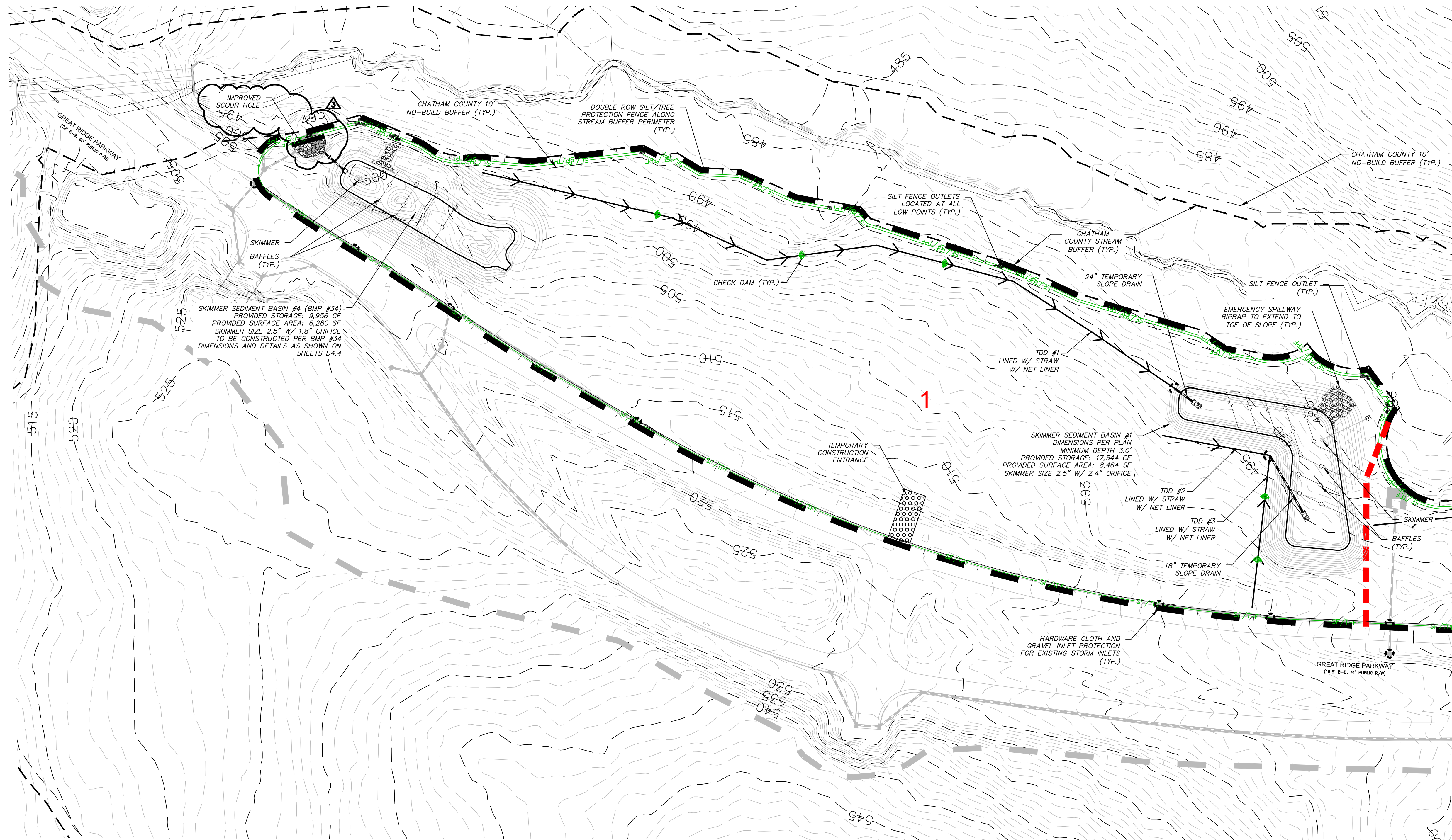
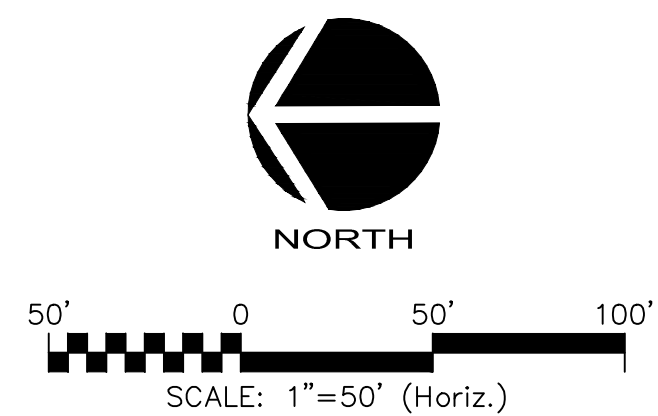


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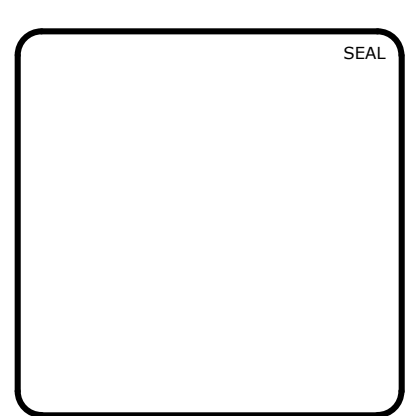
	TEMPORARY CONSTRUCTION ENTRANCE
	RIPRAP OUTLET PROTECTION
	100-YEAR FLOODPLAIN
	EXISTING WETLANDS
	EX. COMBINATION SILT/TREE PROTECTION FENCE
	EX. TEMPORARY DIVERSION DITCH
	EXISTING CONTOUR
	EX. LIMITS OF DISTURBANCE
	COMBINATION SILT/TREE PROTECTION FENCE
	TEMPORARY DIVERSION DITCH
	LIMITS OF DISTURBANCE
	SEDIMENT BASIN BAFFLE
	ARC PIPE INLET PROTECTION
	DIVERSION CHECK DAM
	SLOPE DRAIN
	TEMPORARY DIVERSION DITCH
	CLEAN WATER DIVERSION DITCH
	SILT FENCE OUTLET
	DRAINAGE AREA
	DRAINAGE AREA DELINEATION
	HARDWARE CLOTH & GRAVEL INLET PROTECTION



MATCHLINE - SEE SHEET C3.1



REV. NO.	DATE	DESCRIPTIONS REVISIONS
3	2017.10.09	REVISIONS PER COMMENTS RECEIVED FROM COUNTY EROSION CONTROL
2	2017.09.21	REVISIONS PER COMMENTS RECEIVED FROM MCDOT
1	2017.09.13	REVISIONS PER COMMENTS RECEIVED FROM COUNTY EROSION CONTROL
0	2017.07.26	SUBMITTAL TO AGENCIES



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**BRIAR CHAPEL
 PHASE 13 - SECTION 1 & 2
 CHATHAM COUNTY, NORTH CAROLINA
 STAGE 1
 GRADING, DRAINAGE & EROSION
 CONTROL PLAN**

DATE: JULY 26, 2017	SCALE: 1" = 50'	MSC FILE NUMBER: C3.X
MCE PROJ. # 02735-0198	HORIZONTAL: 1" = 50'	DRAWING NUMBER: C3.2
DRAWN: BSS	VERTICAL: N/A	
DESIGNED: BSS		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FOR REVIEW PURPOSES ONLY	REVISION: 3	

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.

GENERAL NOTES (CON'T):

- 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.

GENERAL NOTES (CON'T):

- CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING AS NECESSARY THROUGHOUT CONSTRUCTION. USE OF SEDIMENT BAG IS REQUIRED FOR ALL BASIN DEWATERING.
- CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL PERMIT CONDITIONS, MONITORING AND REPORTING REQUIREMENTS.
- REFER TO SHEET D2.1 FOR PROPOSED ROAD CROSS SECTION DETAILS AND PAVEMENT SCHEDULE.
- GRADED SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH CURLEX SINGLE NET (CURLEX I) MATTING BY AMERICAN EXCELSIOR COMPANY OR APPROVED EQUAL.
- STREAM AND WETLAND LOCATIONS ARE BASED ON DELINEATIONS PROVIDED BY SOIL AND ENVIRONMENTAL CONSULTANTS IN RALEIGH, NC - CONTACT SEAN CLARK AT 919-846-5900.
- NO PORTION OF THIS PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA "AE" AS SHOWN ON FEMA FIRM MAP #3710976500J DATED FEBRUARY 2, 2007.

GENERAL NOTES (CON'T):

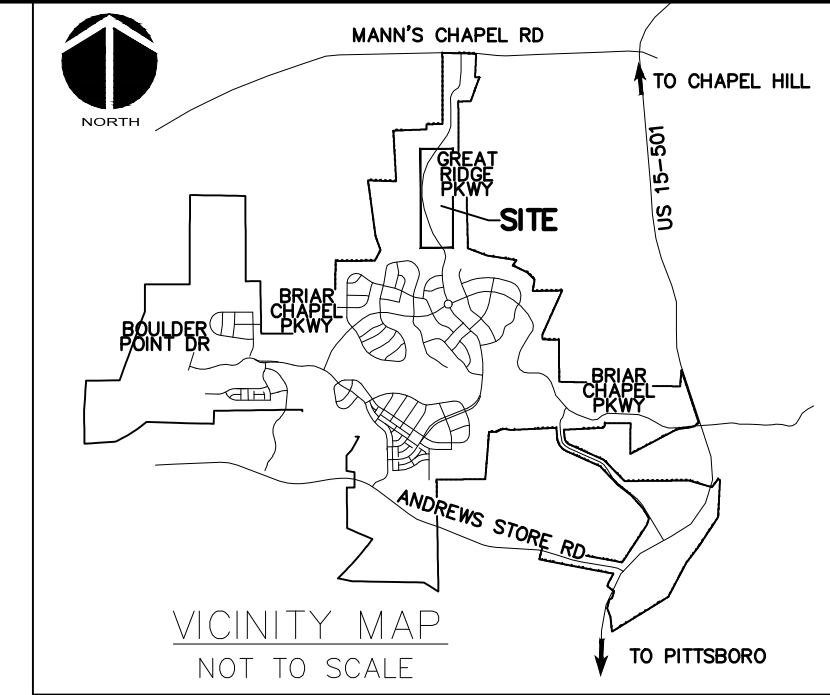
- BEFORE STARTING ANY CONSTRUCTION OF IMPROVEMENTS WITHIN ANY NCDOT STREET OR HIGHWAY RIGHT-OF-WAY, CONTACT NCDOT DISTRICT OFFICE AND OBTAIN ALL PERMITS AND ENCROACHMENTS AND KEEP COPIES ON CONSTRUCTION SITE AT ALL TIMES. ALSO CONTACT NCDOT DISTRICT OFFICE 24 HOURS IN ADVANCE BEFORE PLACING CURB AND GUTTER AT (336) 629-1423.

LIMITS OF DISTURBANCE NOTES:

- 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.
- LIMITS OF DISTURBANCE: 11.03 ACRES

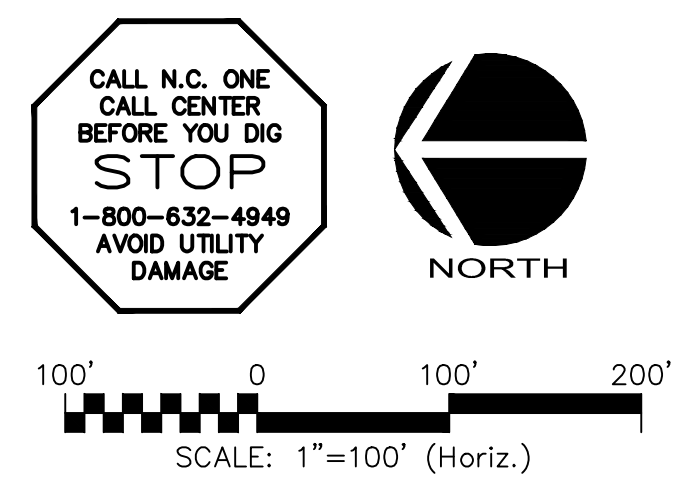
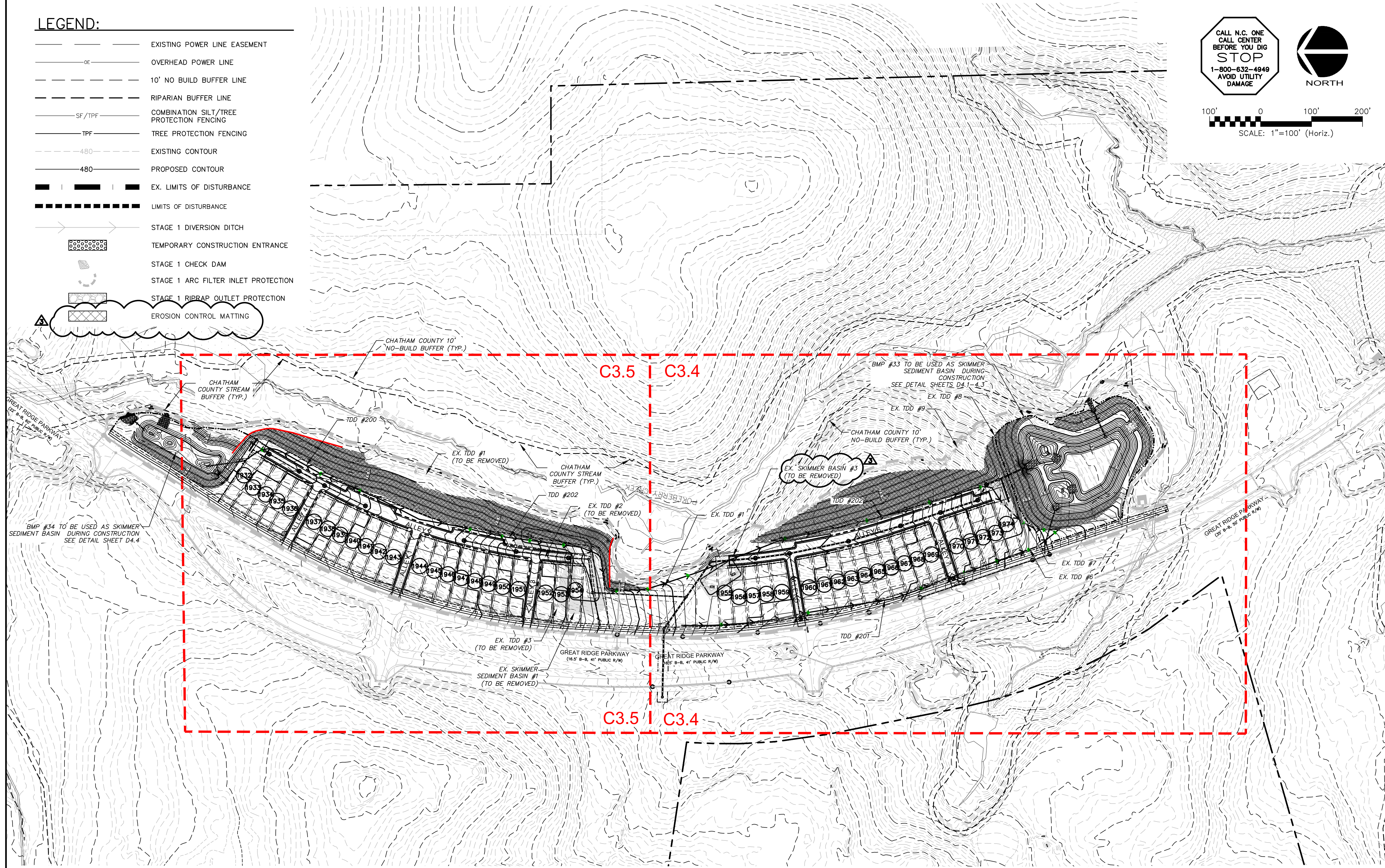
RETAINING WALL NOTES:

- 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 OF WALL AND BOTTOM GRADE OF WALL SPECIFIED IN PLANS 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, GEOGRID 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.



LEGEND:

- EXISTING POWER LINE EASEMENT
- OVERHEAD POWER LINE
- 10' NO BUILD BUFFER LINE
- RIPARIAN BUFFER LINE
- SF / TPF COMBINATION SILT/TREE PROTECTION FENCING
- TPF TREE PROTECTION FENCING
- 480 EXISTING CONTOUR
- 480 PROPOSED CONTOUR
- EX. LIMITS OF DISTURBANCE
- LIMITS OF DISTURBANCE
- STAGE 1 DIVERSION DITCH
- TEMPORARY CONSTRUCTION ENTRANCE
- STAGE 1 CHECK DAM
- STAGE 1 ARC FILTER INLET PROTECTION
- STAGE 1 RIPRAP OUTLET PROTECTION
- EROSION CONTROL MATTING



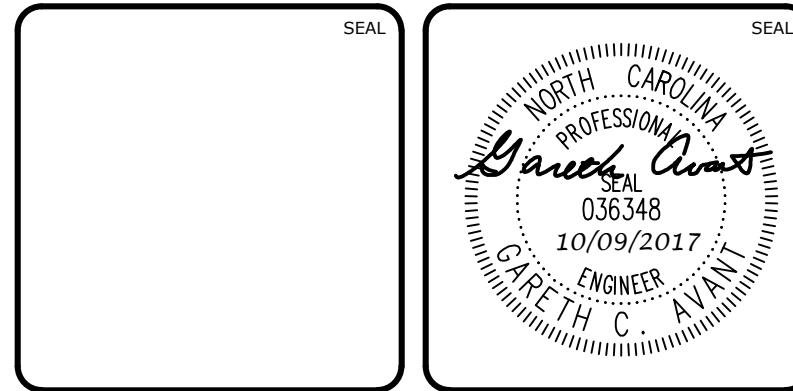
STAGE 2 CONSTRUCTION SEQUENCE:

- CONTRACTOR SHALL MAINTAIN ALL STAGE 1 EROSION CONTROL DEVICES THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH THESE PLANS OR AS CONSTRUCTION REQUIRES THEM TO BE REMOVED, WITH APPROVAL CHATHAM COUNTY.
- GRADING OPERATIONS SHALL BE COMPLETED SUCH THAT RUNOFF CAN BE DIRECTED TOWARDS ANY OF THE APPROVED SEDIMENT BASIN OR TRAPS AT ALL TIMES DURING CONSTRUCTION.
- MASS GRADING SHALL BEGIN AT THE SOUTHERN HALF OF PHASE 13, JUST NORTH OF BMP #33, AND CONTINUE NORTH TOWARDS THE MIDDLE STREAM FINGER. AS MATERIAL IS REMOVED FROM THE SOUTHERN SECTION, IT SHALL BE PLACED IN THE NORTHERN SECTION, CLOSEST TO BMP #34 IN ORDER TO MAINTAIN POSITIVE DRAINAGE IN TDD #1 AND INTO TEMPORARY SEDIMENT BASIN #1 FOR AS LONG AS POSSIBLE.
- AS MASS GRADING ALLOWS, STAGE 2 TEMPORARY DIVERSION DITCHES SHALL BE INSTALLED AND TEMPORARY STAGE 1 MEASURES SHALL BE REMOVED ONCE CONTRIBUTING AREAS CAN BE DIVERTED TO OTHER APPROVED EROSION CONTROL DEVICES.
- TEMPORARY DIVERSION DITCH #200 SHALL BE INSTALLED, SEEDDED AND LINED IN ACCORDANCE WITH THESE PLANS AS GRADING ALLOWS TO DIVERT RUNOFF INTO BMP #34. TEMPORARY ROCK CHECK DAMS AND SLOPE DRAINAGE SHALL BE INSTALLED AT THE TIME OF INSTALLATION.
- TEMPORARY DIVERSION DITCH #201 SHALL BE INSTALLED, SEEDDED AND LINED IN ACCORDANCE WITH THESE PLANS TO PREVENT SEDIMENTATION INTO GREAT RIDGE PARKWAY DURING CONSTRUCTION.
- TEMPORARY DIVERSION DITCH #202 SHALL BE INSTALLED, SEEDDED AND LINED IN ACCORDANCE WITH THESE PLANS. IT SHALL BE EXTENDED NORTH AS GRADING ALLOWS IN ORDER TO MAINTAIN POSITIVE DRAINAGE FROM ITS BEGINNING POINT TO BMP #33. TEMPORARY SEDIMENT BASIN #1 AND TEMPORARY SEDIMENT TRAP #4 SHALL BE MUCKED OUT, AND FILLED WITH MATERIAL PLACED IN A CONTROLLED MANNER, UNDER THE SUPERVISION OF THE PROJECT'S GEOTECHNICAL ENGINEER. THE BASIN SHALL ONLY BE REMOVED WITH THE APPROVAL OF CHATHAM COUNTY.
- AS ELEVATIONS ARE BROUGHT TO FINAL GRADES AND STORM PIPING AND OTHER UTILITIES ARE INSTALLED IN ROADWAY SECTIONS, CONTRACTOR SHALL INSTALL HARDWARE CLOTH AND GRAVEL INLET PROTECTION AS SHOWN ON PLANS.
- STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISHED GRADE WITH VEGETATION, PAVING, DITCH LINING, ETC. SEED AND MULCH DENUDEED AREAS PER GROUND STABILIZATION TIME FRAMES.
- PERFORM SEEDING AND MULCHING AS REQUIRED IN ACCORDANCE WITH THE TEMPORARY AND PERMANENT SEEDING SCHEDULES LOCATED ON SHEET D1.1 AND NOTE #5 OF THIS SEQUENCE IN THE SOUTHERN HALF OF PHASE.
- ONCE GROUND COVER HAS BEEN ESTABLISHED AND OTHER CONSTRUCTION IS COMPLETE, CONTACT CHATHAM COUNTY SOIL EROSION AND SEDIMENTATION AND ENGINEER FOR SITE INSPECTION BEFORE REMOVING ANY TEMPORARY EROSION CONTROL MEASURES.
- FINAL BMP CONVERSION, INCLUDING MUCKING OUT OF ACCUMULATED SEDIMENT, REMOVAL OF SKIMMERS OR BARRIERS AND FINAL PLANTING SHALL OCCUR AT A LATER DATE, ONCE UPSTREAM AREAS HAVE BEEN STABILIZED OR CONSTRUCTION OF HOMES ON MOST LOTS HAS BEEN COMPLETED.

NCDOT REQUIRED DRAINAGE NOTES

- NCDOT DOES NOT ACCEPT MAINTENANCE RESPONSIBILITY FOR THE DRAINAGE STRUCTURES AND PIPING OUTSIDE OF NCDOT'S ROADWAY RIGHT-OF-WAY
- NCDOT ASSUMES NO RESPONSIBILITY FOR OPERATION, MAINTENANCE OR LIABILITY OF THE STRUCTURAL STORMWATER BMP'S.

REV. NO.	DESCRIPTIONS	DATE
3	REVISIONS PER COMMENTS RECEIVED FROM COUNTY EROSION CONTROL	2017.10.09
2	REVISIONS PER COMMENTS RECEIVED FROM NCDOT	2017.09.21
1	REVISIONS PER COMMENTS RECEIVED FROM COUNTY EROSION CONTROL	2017.09.13
0	SUBMITTAL TO AGENCIES	2017.07.26

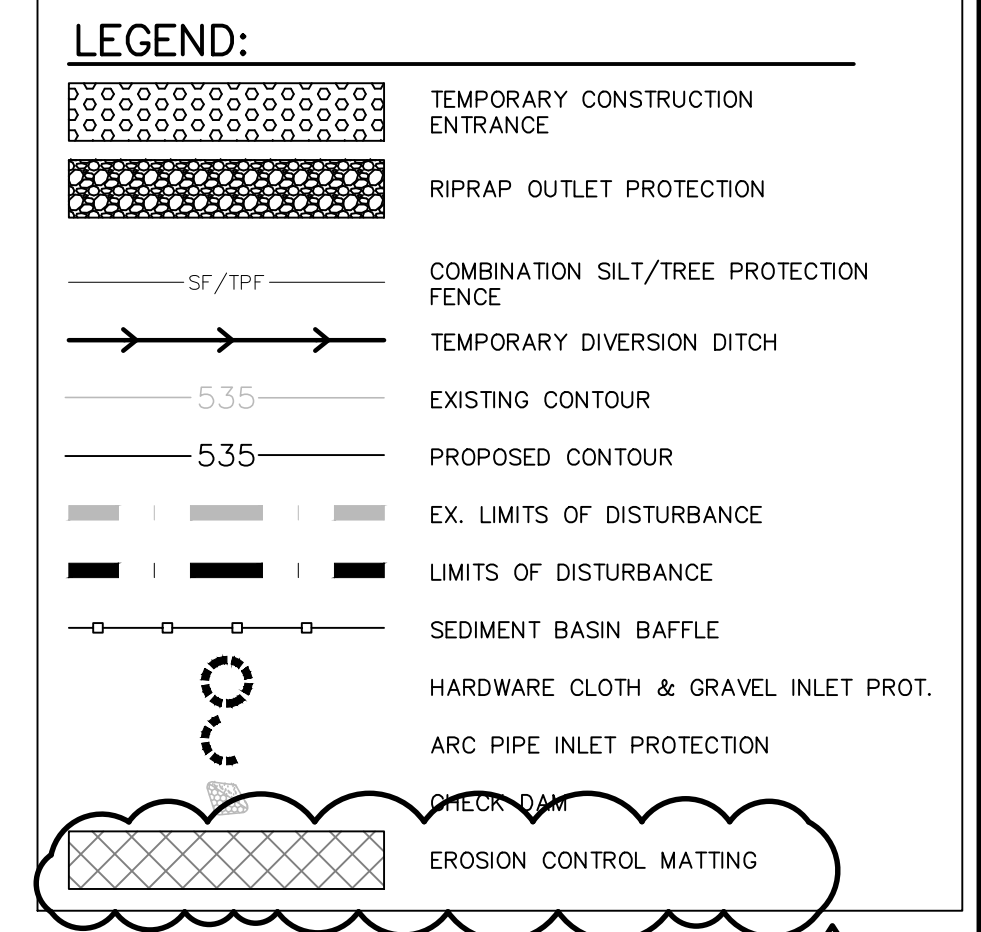
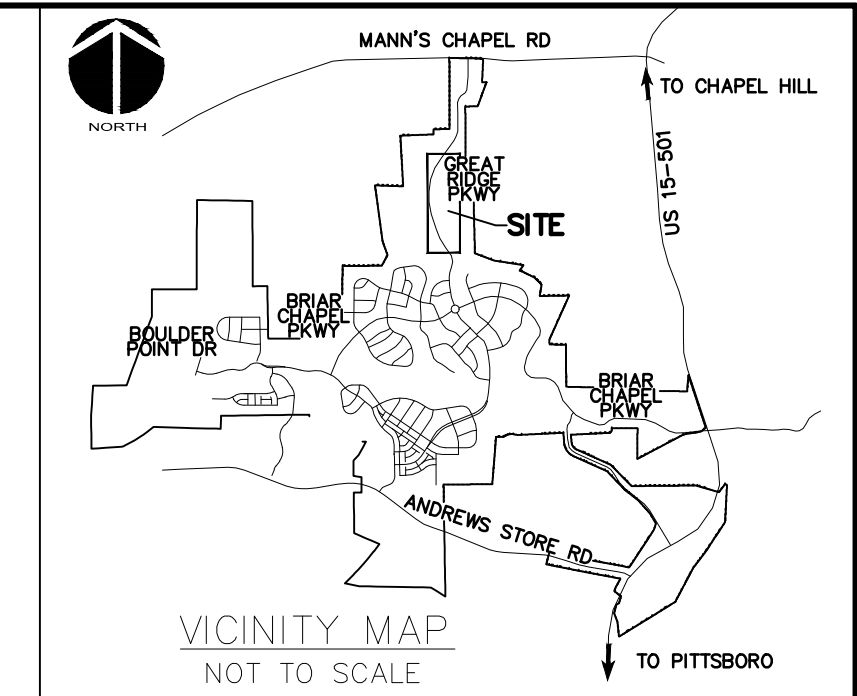


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 CHATHAM COUNTY, NORTH CAROLINA
 OVERALL STAGE 2
 GRADING, DRAINAGE & EROSION
 CONTROL PLAN

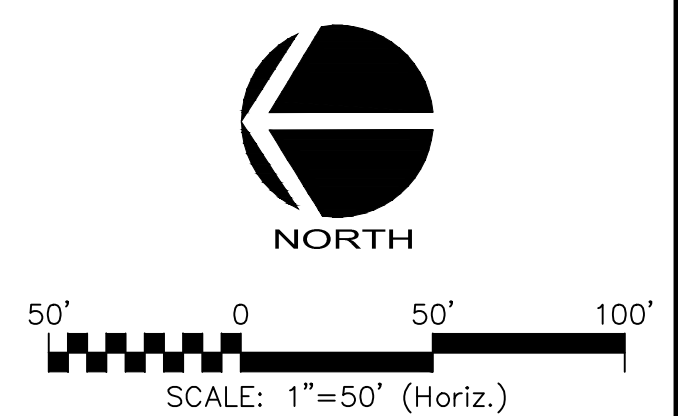
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DRAWN: BSS	VERTICAL: N/A	
DESIGNED: BSS		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FOR REVIEW PURPOSES ONLY	REVISION: 3	



STORM DRAINAGE NOTES:

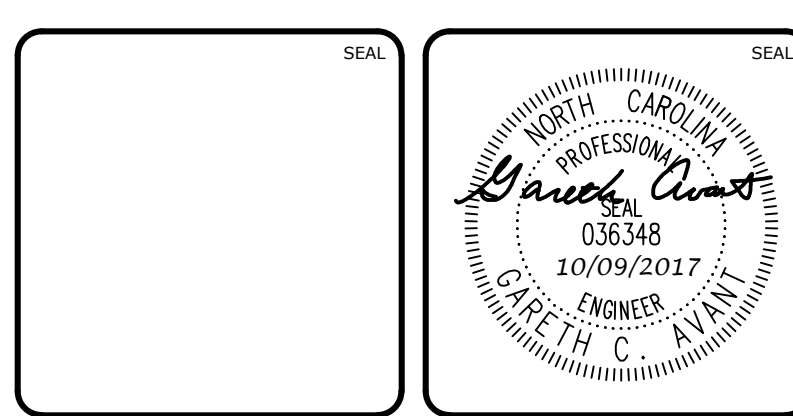
- STORM DRAINAGE PIPES SHALL BE:
 - RCP/CLASS III FOR STORM DRAINAGE INSIDE PUBLIC RIGHT-OF-WAY OR CONNECTING INTO STRUCTURE INSIDE PUBLIC RIGHT-OF-WAY IN ACCORDANCE WITH NCDOT STANDARDS UNLESS NOTED OTHERWISE.
- ALL CONCRETE SHALL MEET A MINIMUM 3,000 PSI COMPRESSIVE STRENGTH.
- ALL PIPE IN STORM DRAIN 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 ROLLING.
- MATERIALS DEEMED AS UNSUITABLE FOR BACKFILL PURPOSES BY THE OWNER'S REPRESENTATIVE SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.
- BACKFILLING OF TRENCHES SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PIPE IS LAID. THE FILL AROUND THE PIPE SHALL BE THOROUGHLY COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY OBTAINABLE WITH THE STANDARD PROCTOR TEST. THE TOP EIGHT (8) INCHES SHALL BE COMPACTED TO 100% STANDARD PROCTOR.
- UNDER NO CIRCUMSTANCES SHALL WATER BE ALLOWED TO RISE IN UNBACKFILLED TRENCHES AFTER PIPE HAS BEEN PLACED.
- ALL FLARED END SECTIONS DISCHARGING INTO WATER QUALITY PONDS WILL HAVE A CONCRETE PAD POURED UNDERNEATH THE FLARED END SECTION IN ACCORDANCE WITH PROVIDED CONSTRUCTION DETAILS.
- RIM ELEVATIONS OF STORM DRAIN STRUCTURES SHALL BE FIELD VERIFIED.
- STORM DRAINAGE WITHIN PRIVATE EASEMENTS TO BE OWNED, OPERATED AND MAINTAINED BY HOME OWNER'S ASSOCIATION OR AGENT THEREOF.
- LENGTHS SHOWN FOR STORM DRAINAGE PIPES ARE MEASURED FROM CENTER OF STORM STRUCTURES AND TO ENDS OF FLARED END SECTIONS. SLOPES CALCULATED ARE BASED ON THIS LENGTH.
- CB DENOTES CATCH BASINS TO BE INSTALLED IN THE CENTERS OF PAVED ALLEYS AND NON-PAVED AREAS. REFER TO NCDOT DETAILS 840.19 AND 840.24 ON SHEET D-2.2.
- CI DENOTES CURB INLETS TO BE INSTALLED IN THE CURB LINES OF ROADWAYS. REFER TO NCDOT DETAILS 840.02 AND 840.03 ON SHEET D-2.2.

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



MATCHLINE - SEE SHEET C3.5

REV. NO.	DESCRIPTIONS	DATE
3	REVISIONS PER COMMENTS RECEIVED FROM COUNTY EROSION CONTROL	2017.10.09
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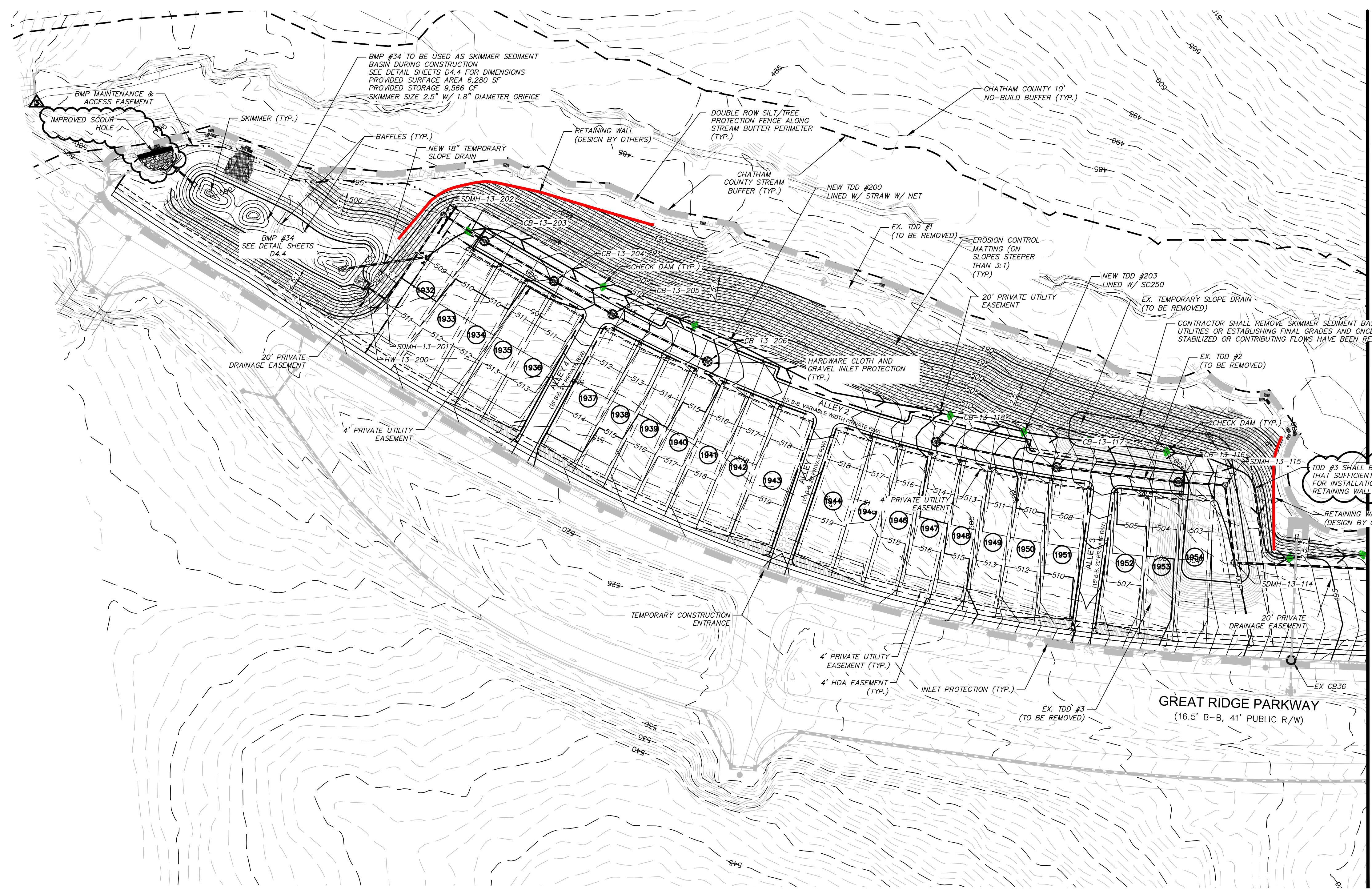
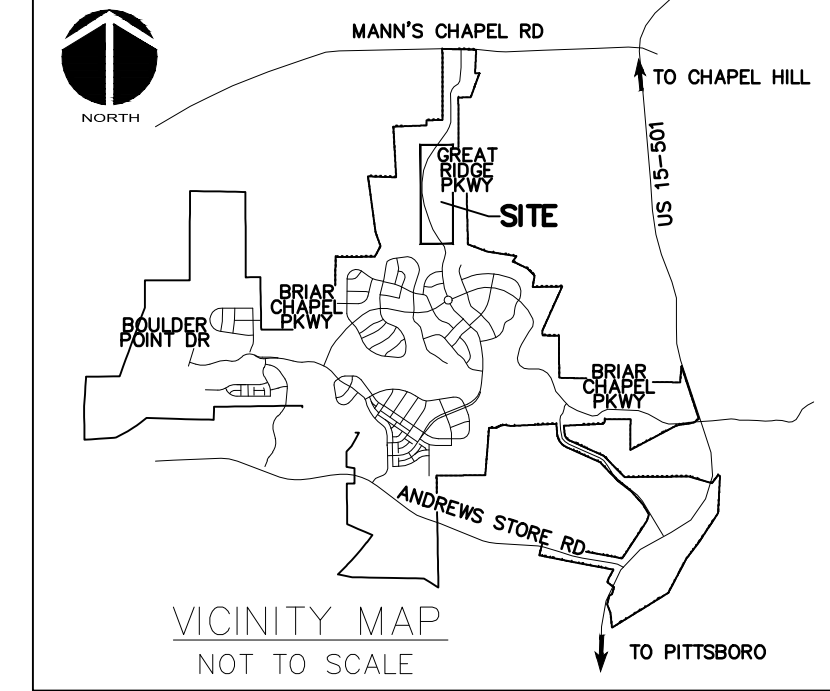
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CHATHAM COUNTY, NORTH CAROLINA
STAGE 2
GRADING, DRAINAGE & EROSION
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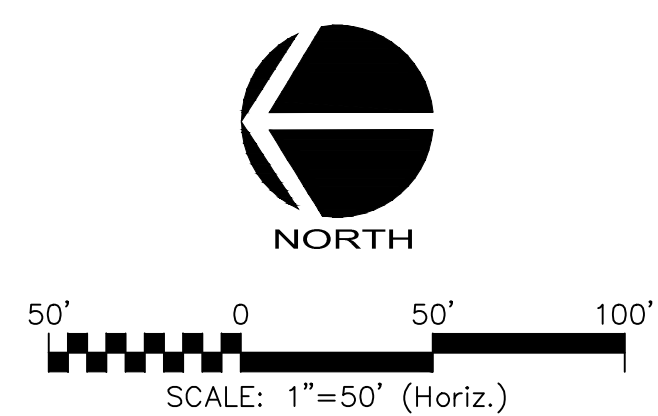
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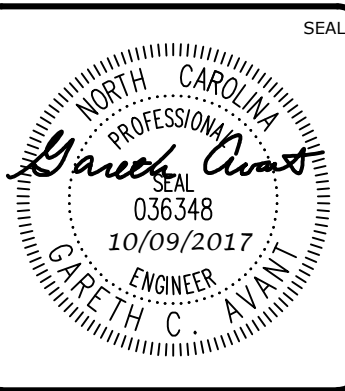
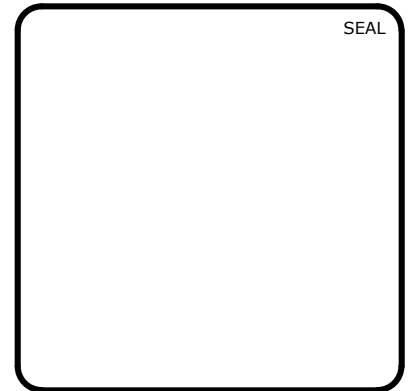
- TEMPORARY CONSTRUCTION ENTRANCE
- RIPRAP OUTLET PROTECTION
- ADDITIONAL DISTURBED AREA
- COMBINATION SILT/TREE PROTECTION FENCE
- TEMPORARY DIVERSION DITCH
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EX. LIMITS OF DISTURBANCE
- LIMITS OF DISTURBANCE
- SEDIMENT BASIN BAFFLE
- HARDWARE CLOTH & GRAVEL INLET PROT.
- ARC PIPE INLET PROTECTION
- CHECK DAM
- EROSION CONTROL MATTING



MATCHLINE - SEE SHEET C3.4



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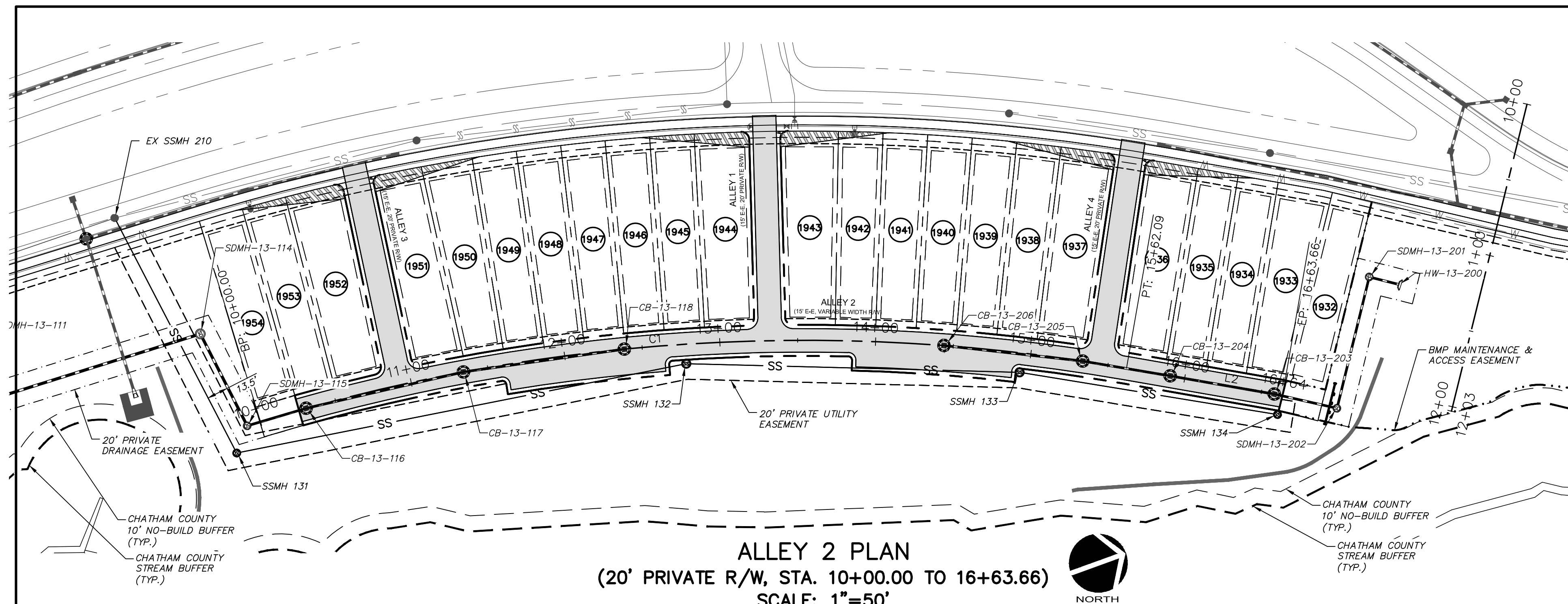


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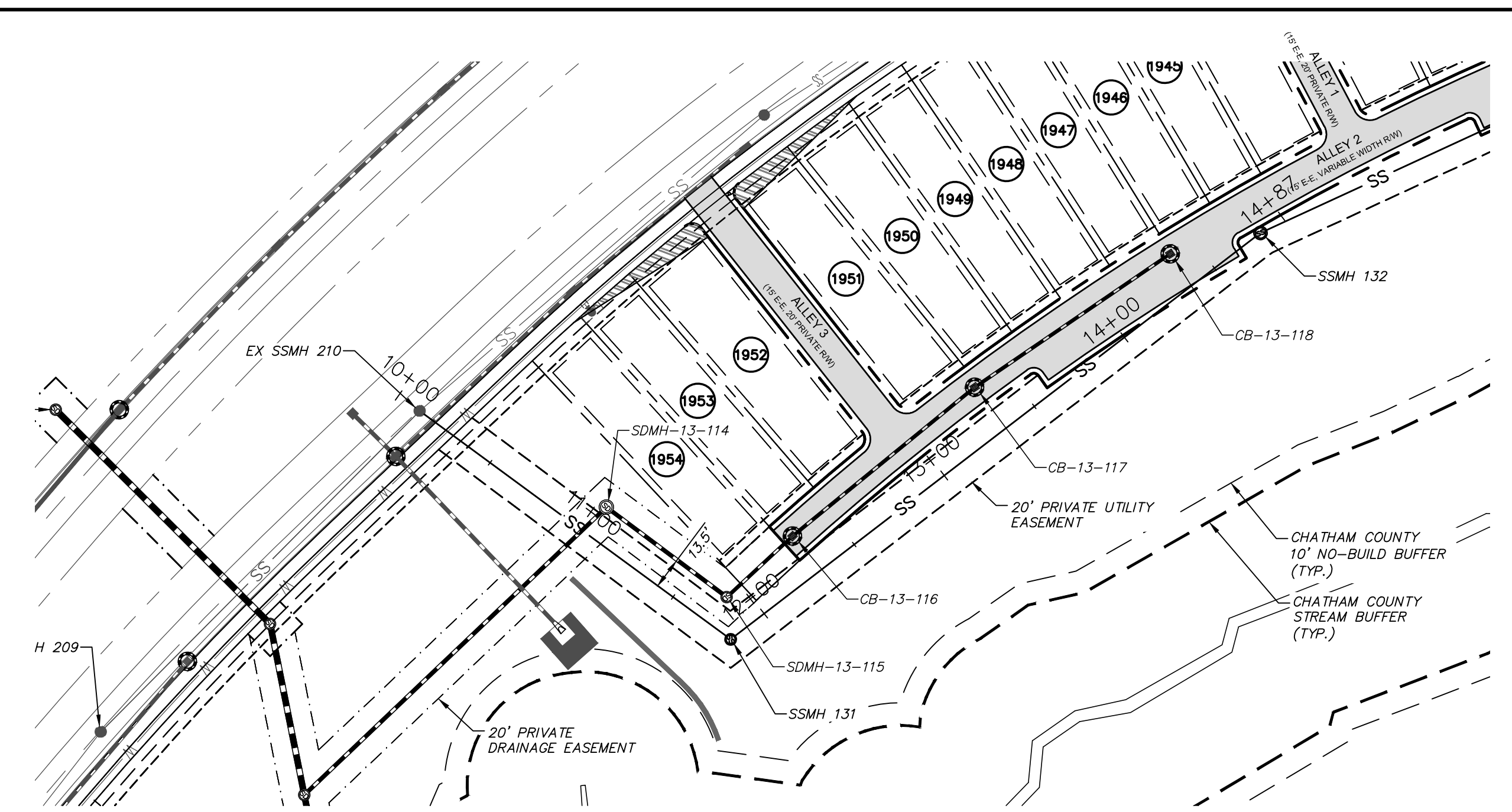
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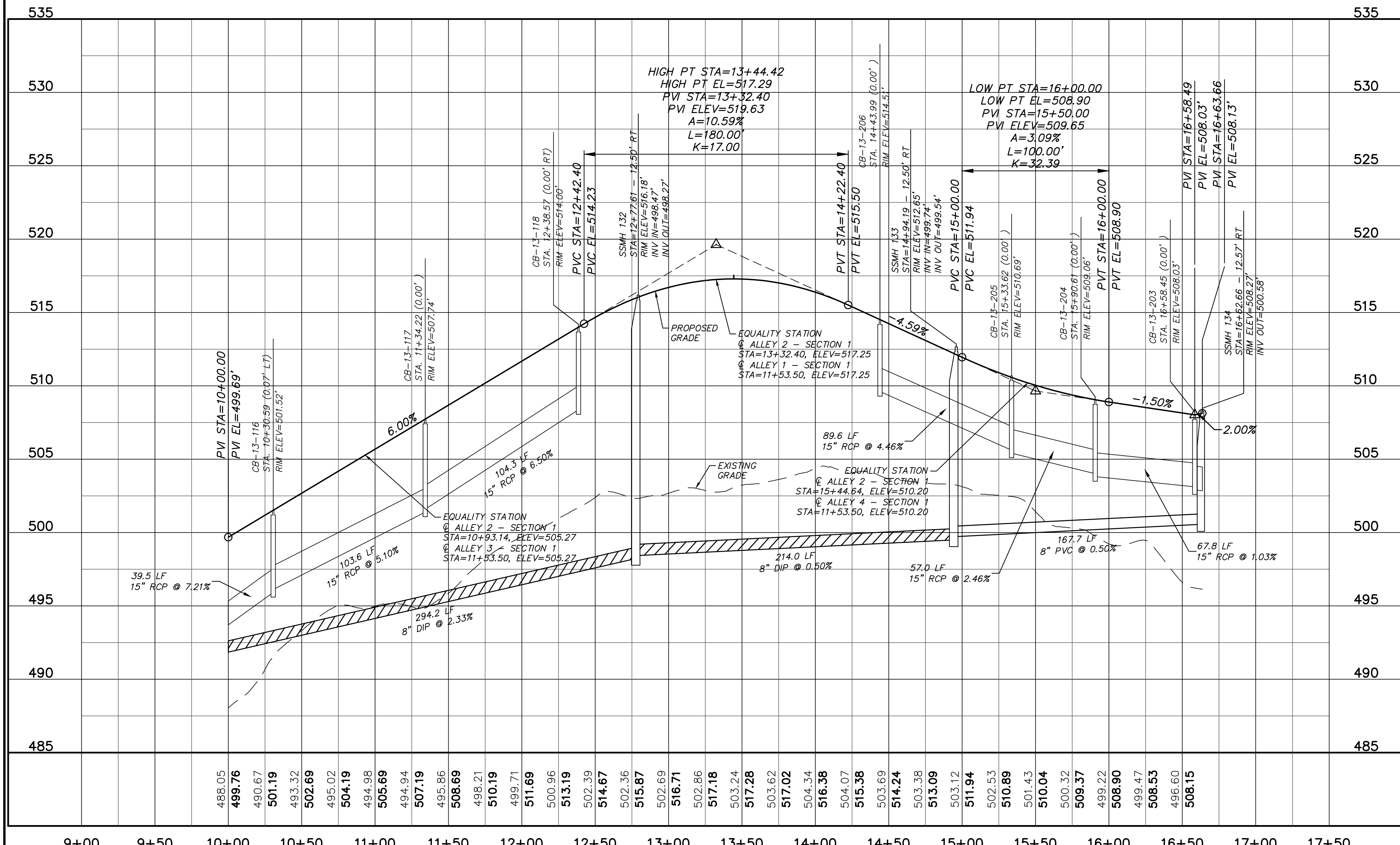
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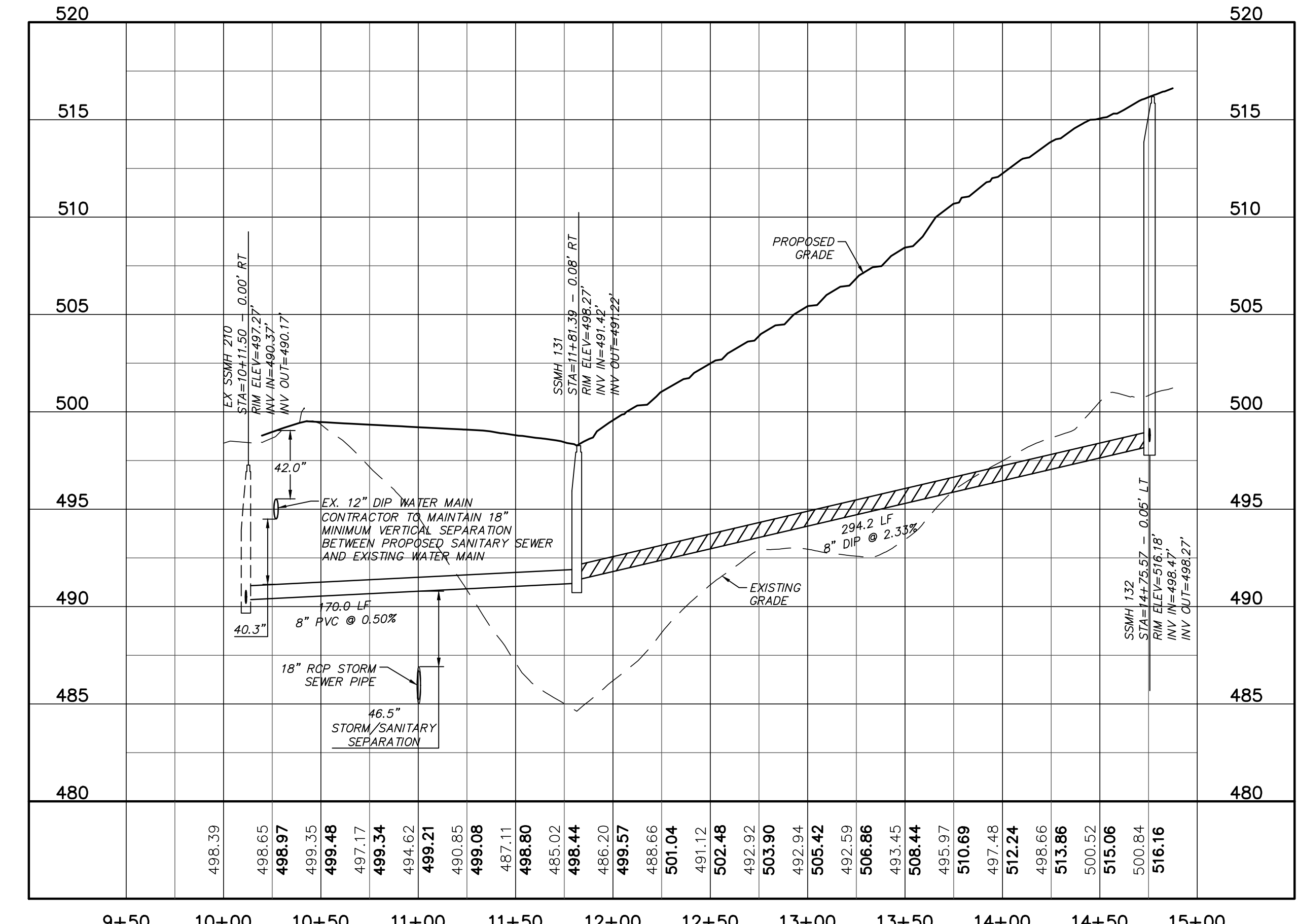
ALLEY 2 PLAN
 (20' PRIVATE R/W, STA. 10+00.00 TO 16+63.66)
 SCALE: 1"=50'



SANITARY SEWER TIE-IN PLAN
 (STA. 10+00.00 TO 14+87.41)
 SCALE: (Horiz.) 1"=50'; (Vert.) 1"=5'

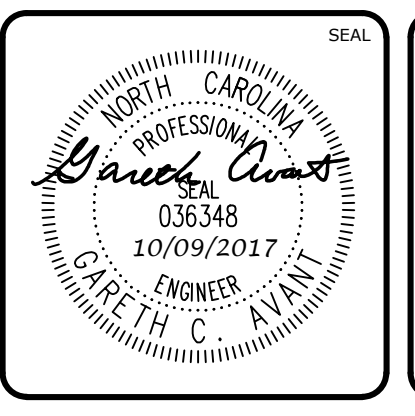
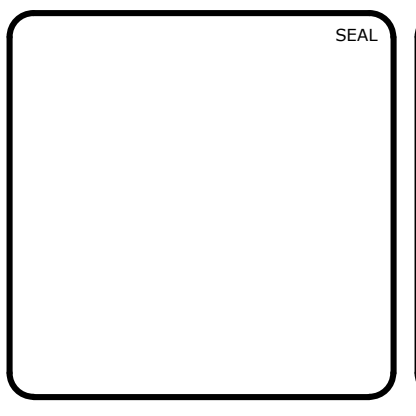


ALLEY 2 PROFILE
 (STA. 10+00.00 TO 16+63.66)
 SCALE: (Horiz.) 1"=50'; (Vert.) 1"=5'



SANITARY SEWER TIE-IN PROFILE
 (STA. 10+00.00 TO 14+87.41)
 SCALE: (Horiz.) 1"=50'; (Vert.) 1"=5'

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 PLAN & PROFILE
 ALLEY 2, STA. 10+00.00 TO STA. 16+63.66
 SANITARY SEWER TIE-IN, STA. 10+00.00 TO STA. 14+87.41

DATE: JULY 26, 2017
 MCE PROJ. # 02735-0198
 DRAWN: BSS
 DESIGNED: BSS
 CHECKED: GCA
 PROJ. MGR. CHS

SCALE: HORIZONTAL: 1"=50'; VERTICAL: N/A

MFC FILE NUMBER: C4.X
 DRAWING NUMBER: C4.1

STATUS: FOR REVIEW PURPOSES ONLY
 REVISION: 3