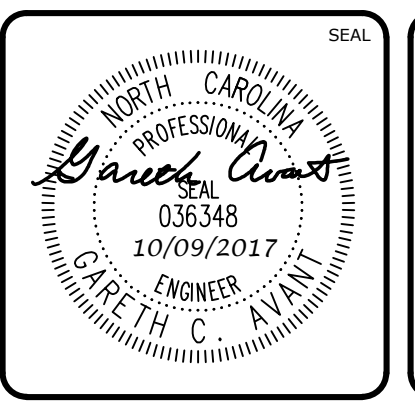
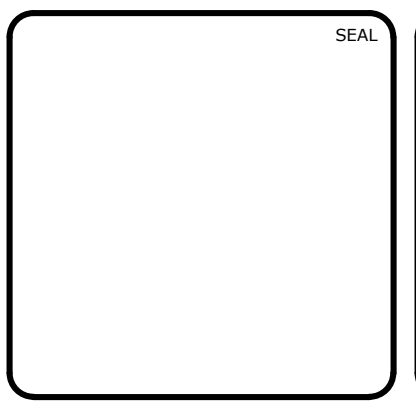


REV. NO.	DESCRIPTION	DATE
3	REVISIONS PER COMMENTS RECEIVED FROM COUNTY EROSION CONTROL	2017.10.09
2	REVISIONS PER COMMENTS RECEIVED FROM NCDOT	2017.09.21
1	REVISIONS PER COMMENTS RECEIVED FROM COUNTY EROSION CONTROL	2017.09.13
0	SUBMITTAL TO AGENCIES	2017.07.26

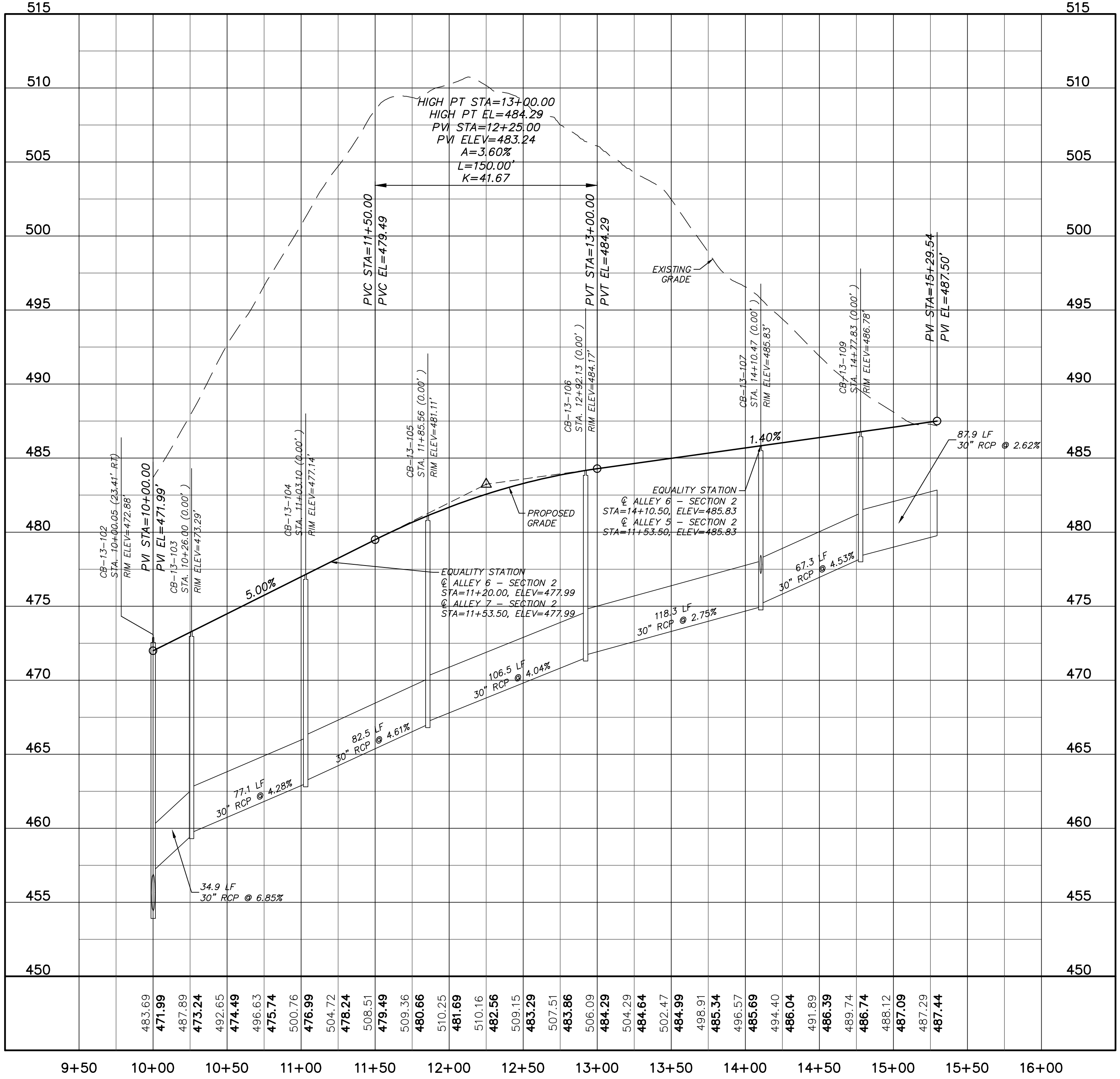
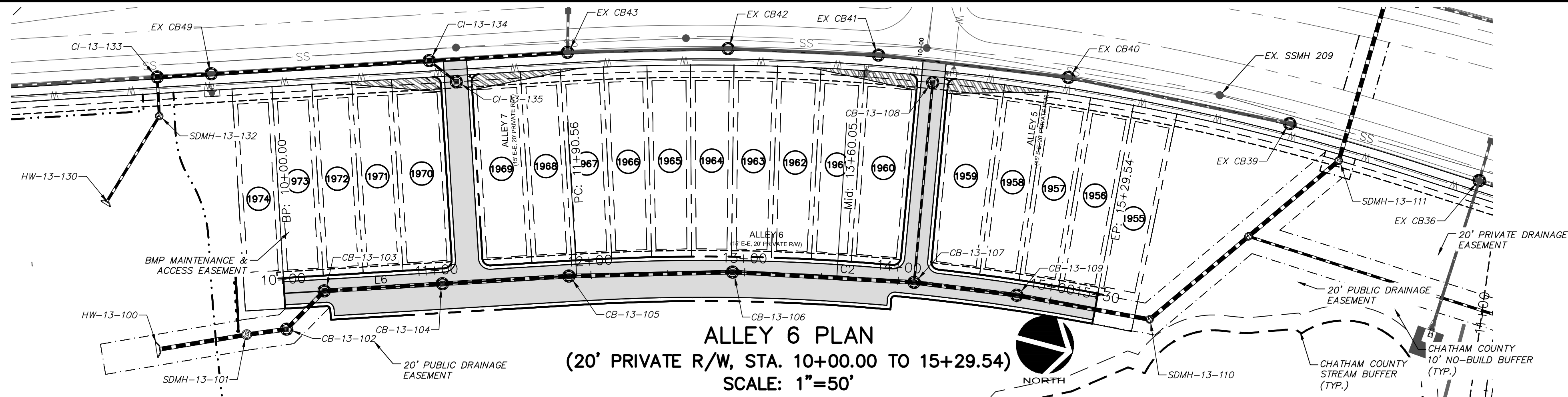


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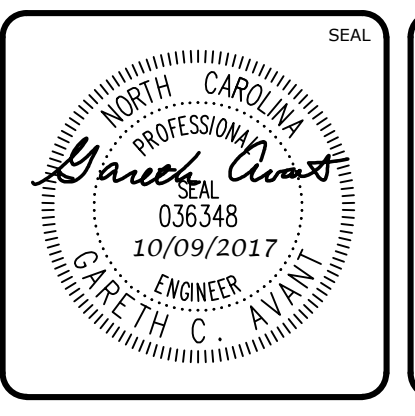
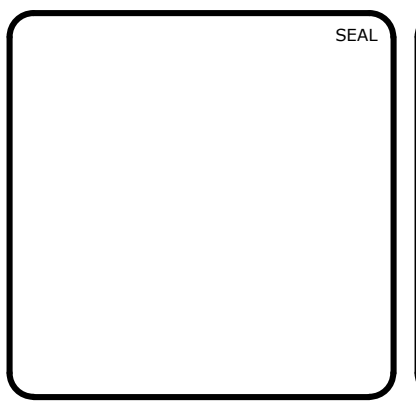
**BRIAR CHAPEL
 PHASE 13 - SECTION 1 & 2
 CHATHAM COUNTY, NORTH CAROLINA
 PLAN & PROFILE**
 ALLEY 1: STA. 10+00.66 TO STA. 11+53.50
 ALLEY 3: STA. 10+00.55 TO STA. 11+53.50
 ALLEY 4: STA. 10+00.73 TO STA. 11+53.50

DATE:	JULY 26, 2017	SCALE:	1" = 50'	M&C FILE NUMBER:	C4.X
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DRAWN:	BSS	VERTICAL:	N/A		
DESIGNED:	BSS				
CHECKED:	GCA				
PROJ. MGR.:	CHS				
STATUS:	FOR REVIEW PURPOSES ONLY				
REVISION:	3				



ALLEY 6 PROFILE
(STA. 10+00.00 TO 15+29.54)
SCALE: (Horiz.) 1"=50'; (Vert.) 1"=5'

REV.	DESCRIPTION	DATE
3	REVISIONS PER COMMENTS RECEIVED FROM COUNTY EROSION CONTROL	2017.10.09
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0	SUBMITTAL TO AGENCIES	2017.07.26

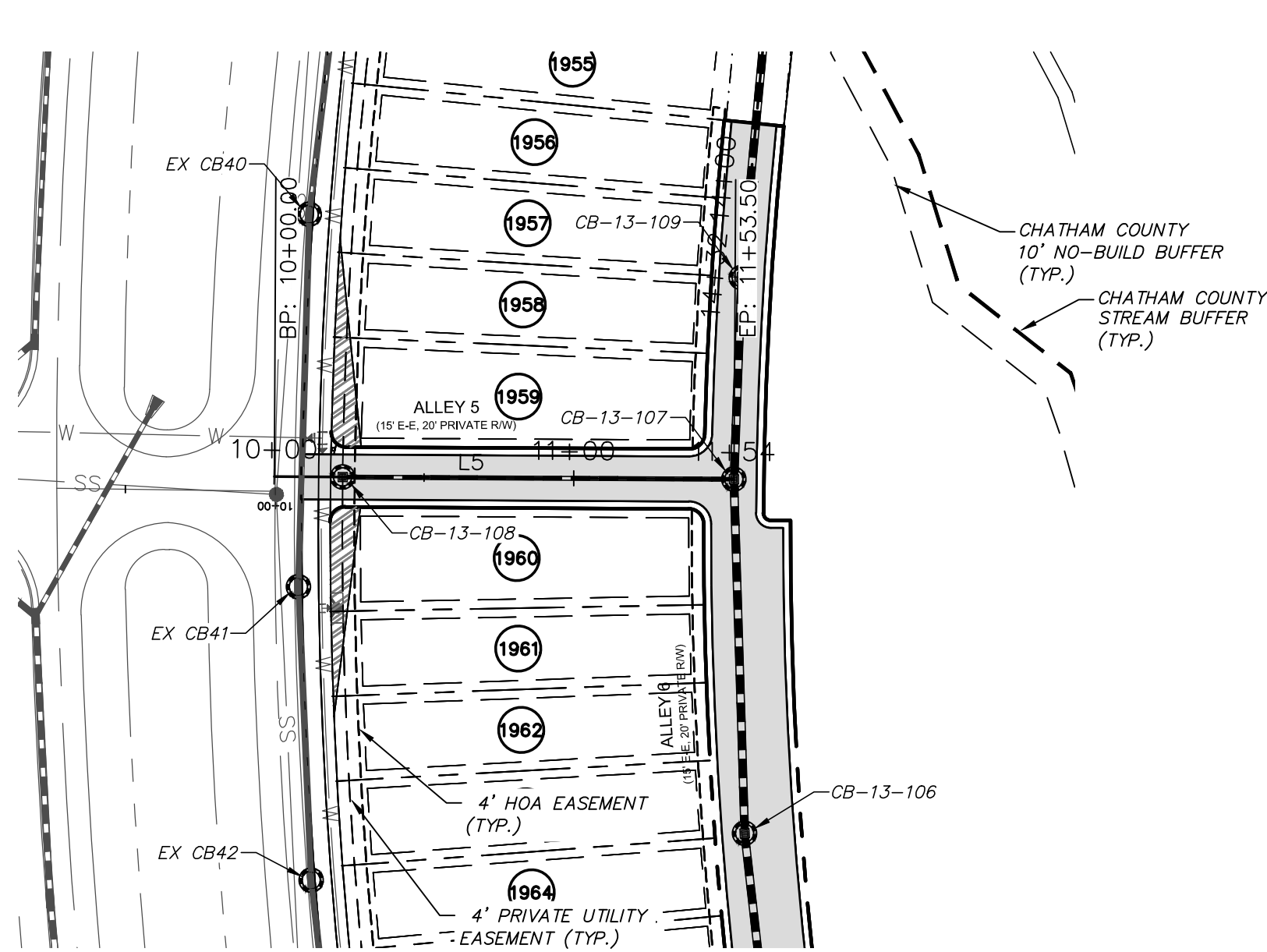


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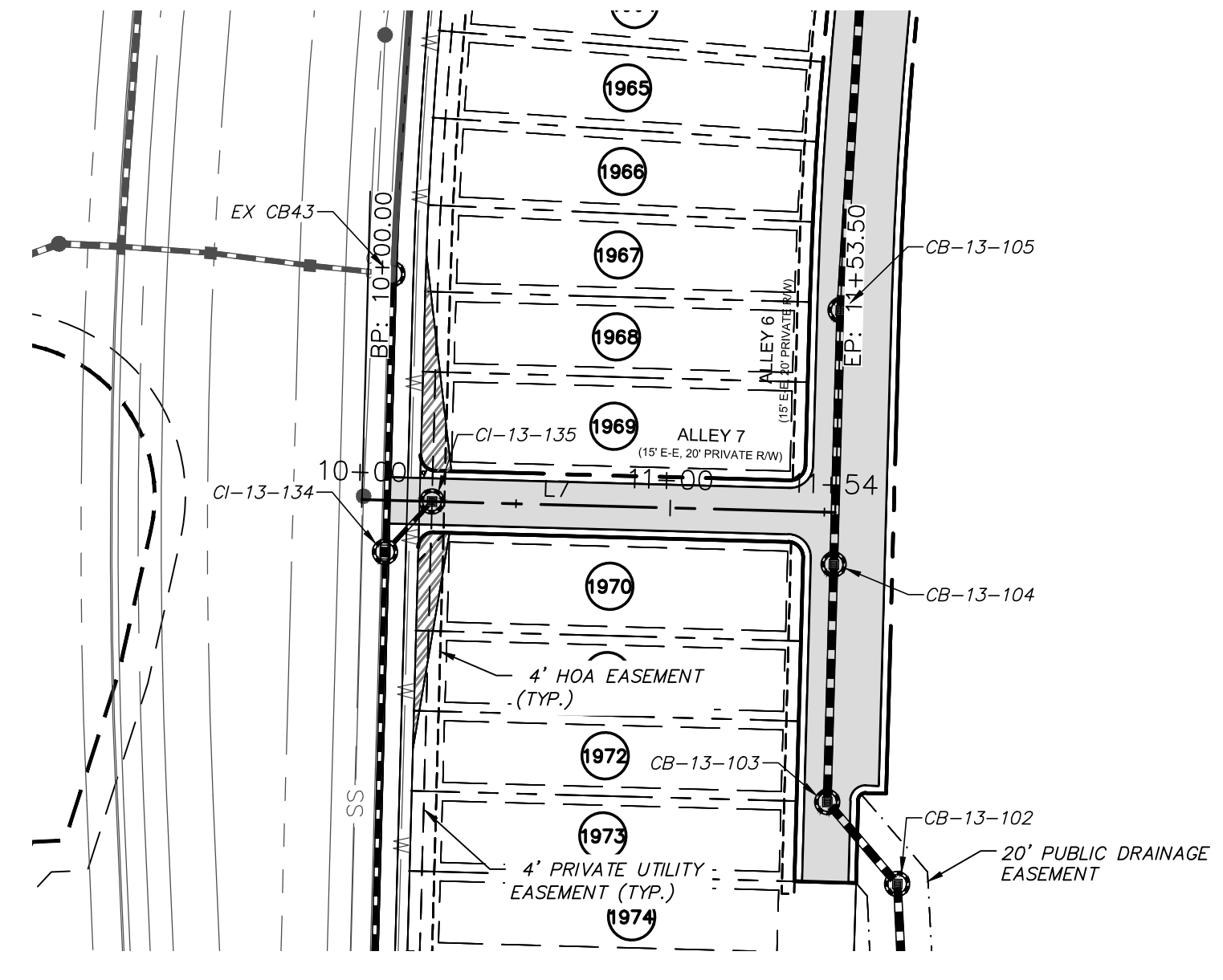
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PHASE 13 - SECTION 1 & 2
CHATHAM COUNTY, NORTH CAROLINA**
PLAN & PROFILE
ALLEY 6
STA. 10+00.00 TO STA. 15+29.54

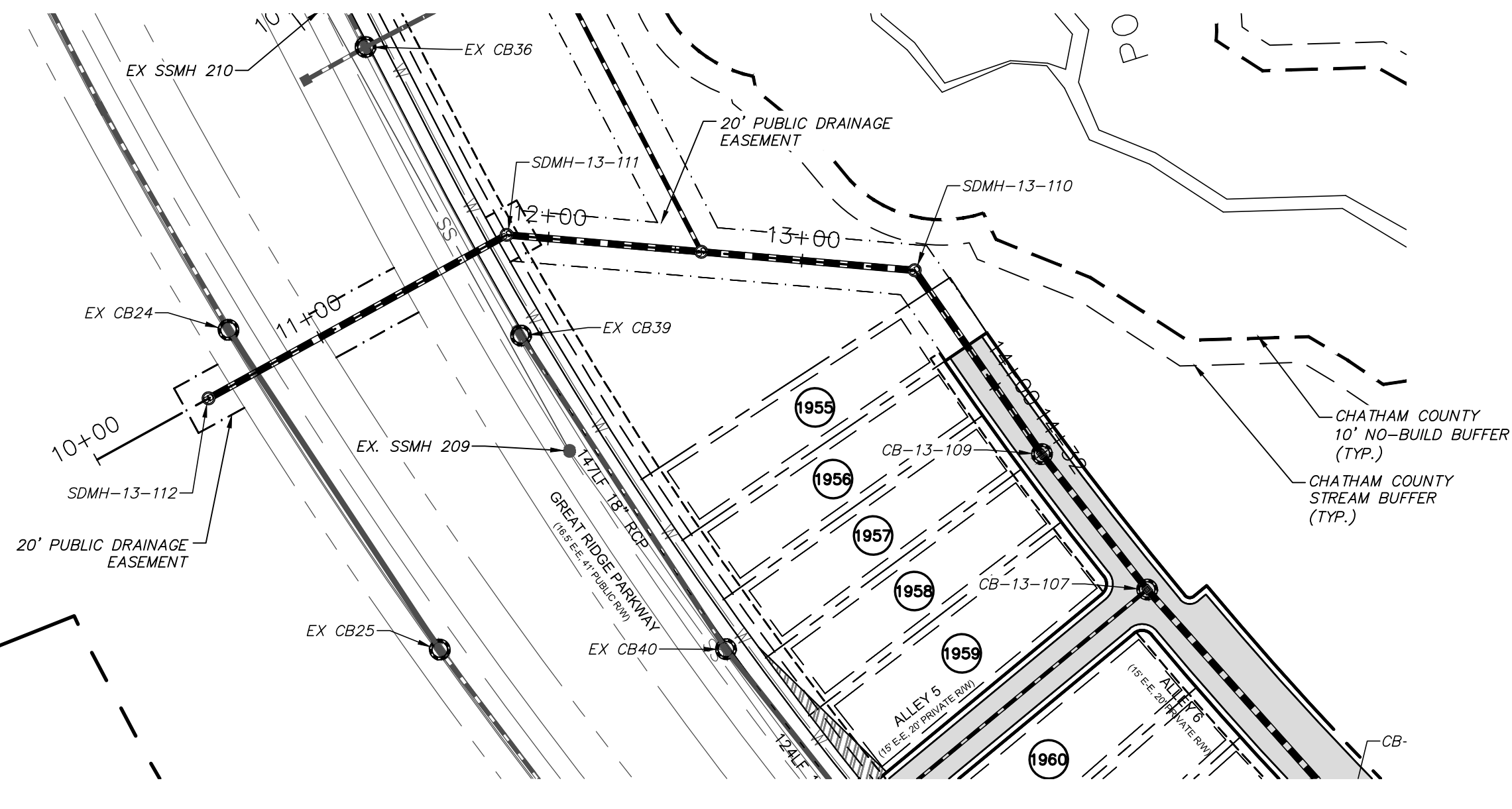
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CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FOR REVIEW PURPOSES ONLY	REVISION: 3	



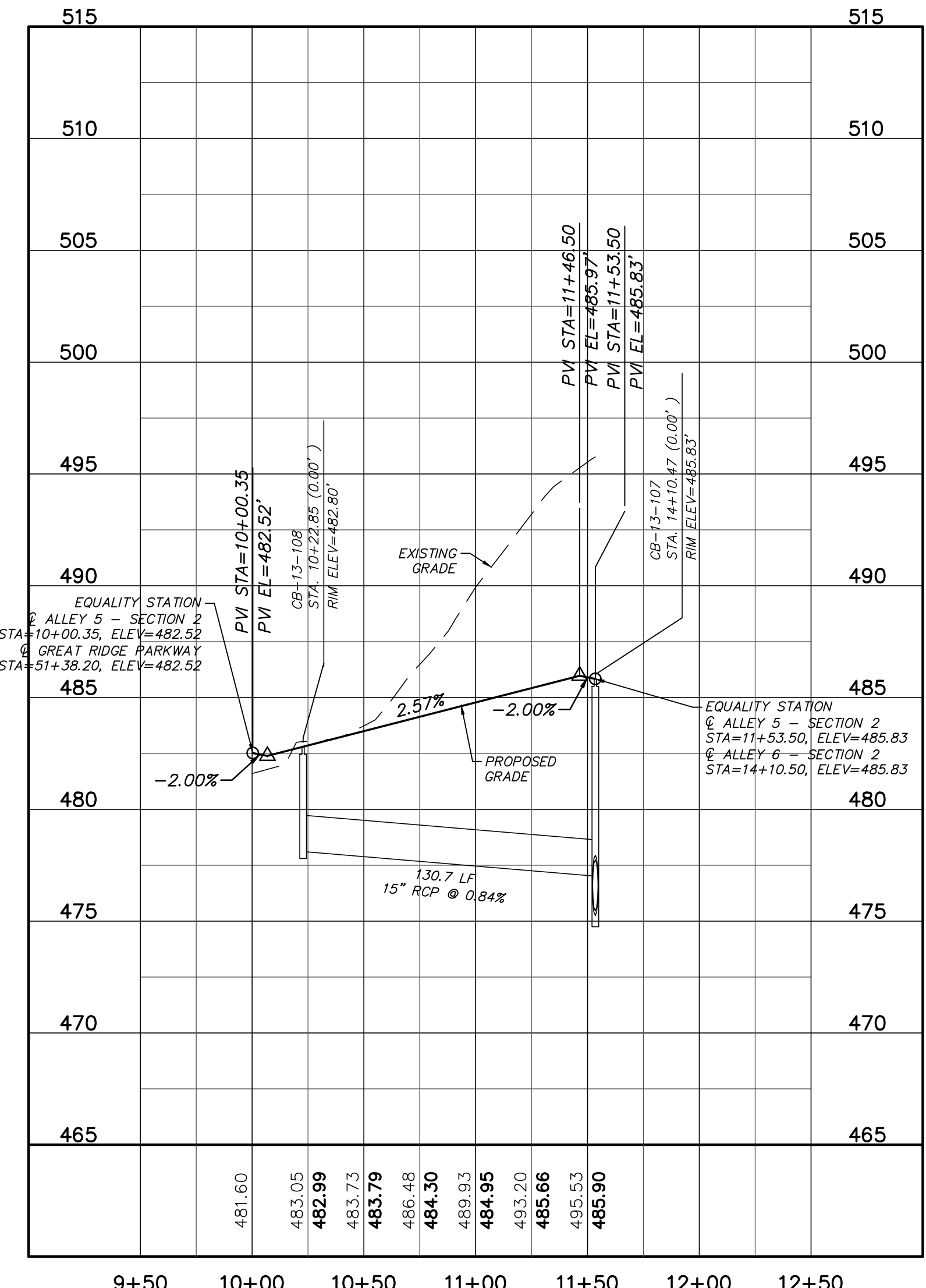
ALLEY 5 PLAN
(20' PRIVATE R/W, STA. 10+00.35 TO 11+53.50)
SCALE: 1"=50'



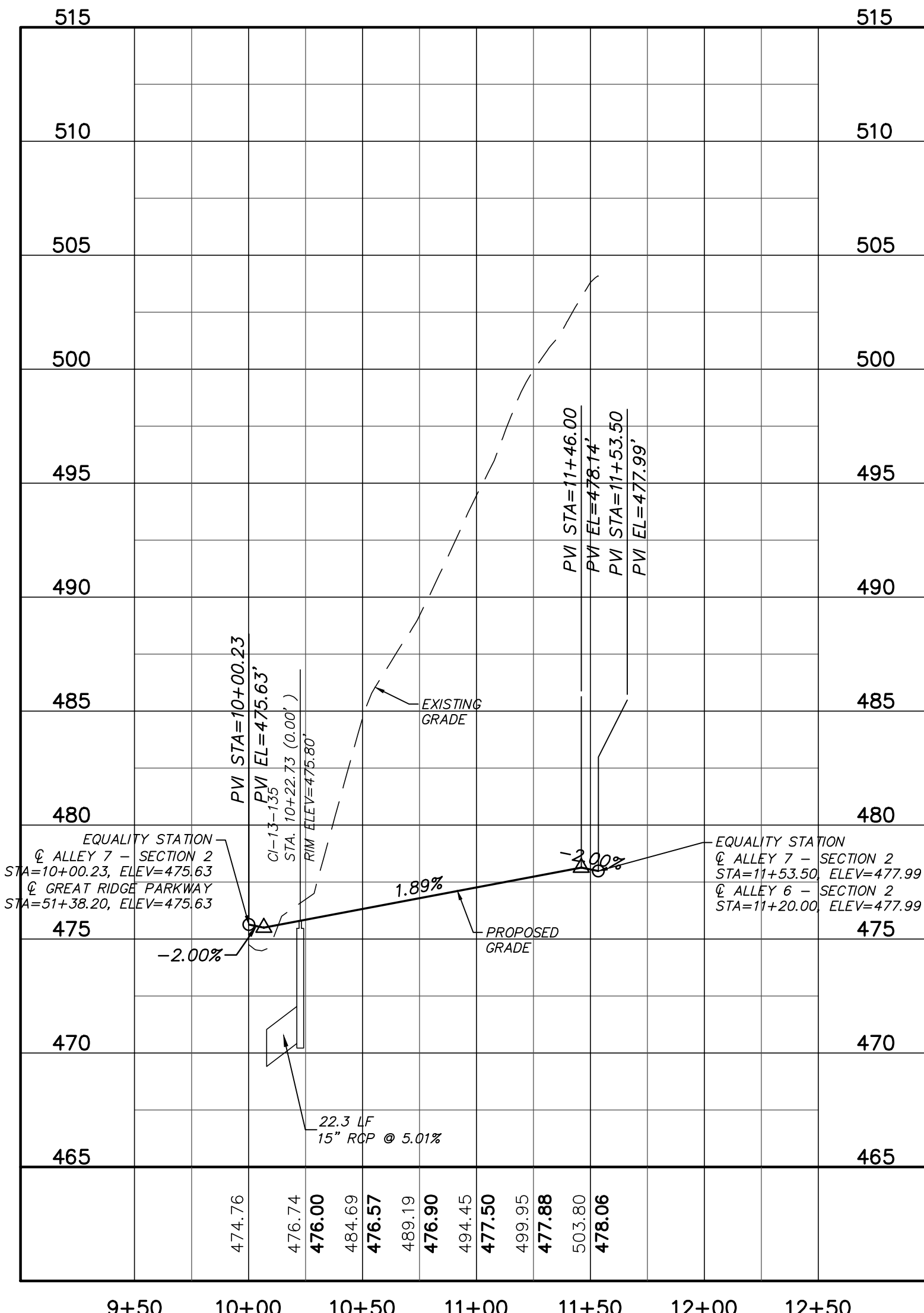
ALLEY 7 PLAN
(20' PRIVATE R/W, STA. 10+00.23 TO 11+53.50)
SCALE: 1"=50'



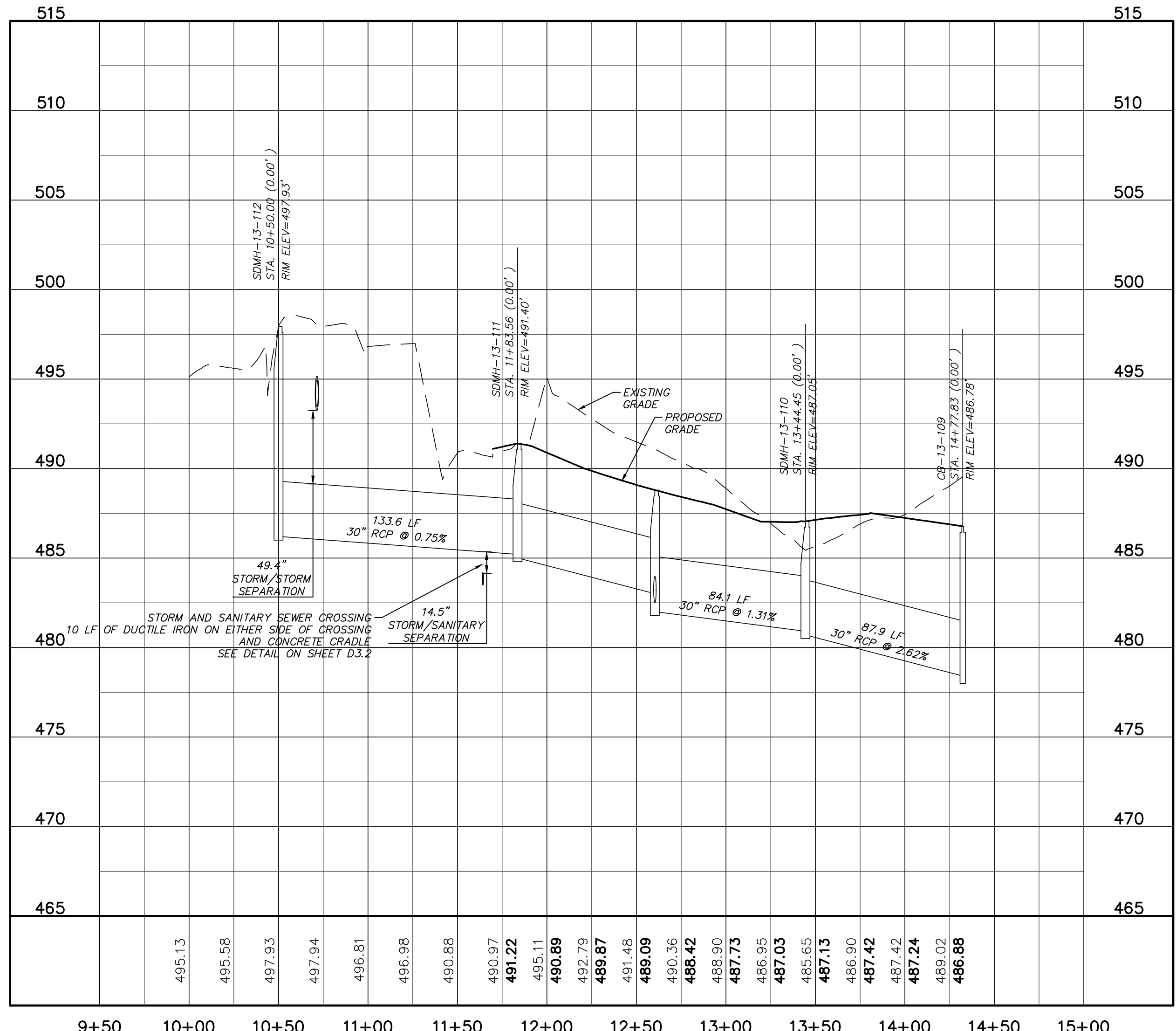
STORM CROSSING FROM FUTURE PHASE 12 PLAN
(20' PRIVATE R/W, STA. 10+00.00 TO 14+32.33)
SCALE: 1"=50'



ALLEY 5 PROFILE
(STA. 10+00.00 TO 11+53.50)
SCALE: (Horiz.) 1"=50'; (Vert.) 1"=5'

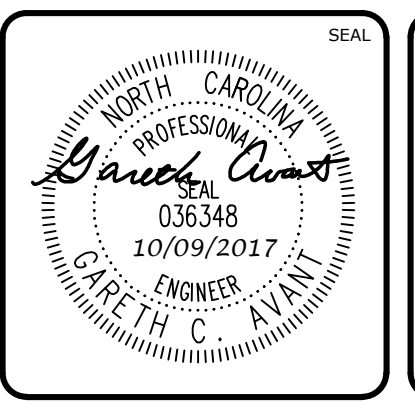
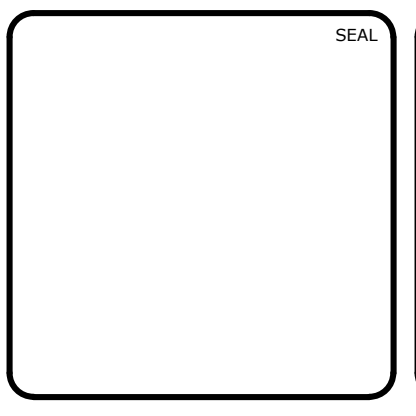


ALLEY 7 PROFILE
(STA. 10+00.23 TO 11+53.50)
SCALE: (Horiz.) 1"=50'; (Vert.) 1"=5'



STORM CROSSING FROM FUTURE PHASE 12 PROFILE
(STA. 10+00.00 TO 14+32.33)
SCALE: (Horiz.) 1"=50'; (Vert.) 1"=5'

REV.	DESCRIPTION	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

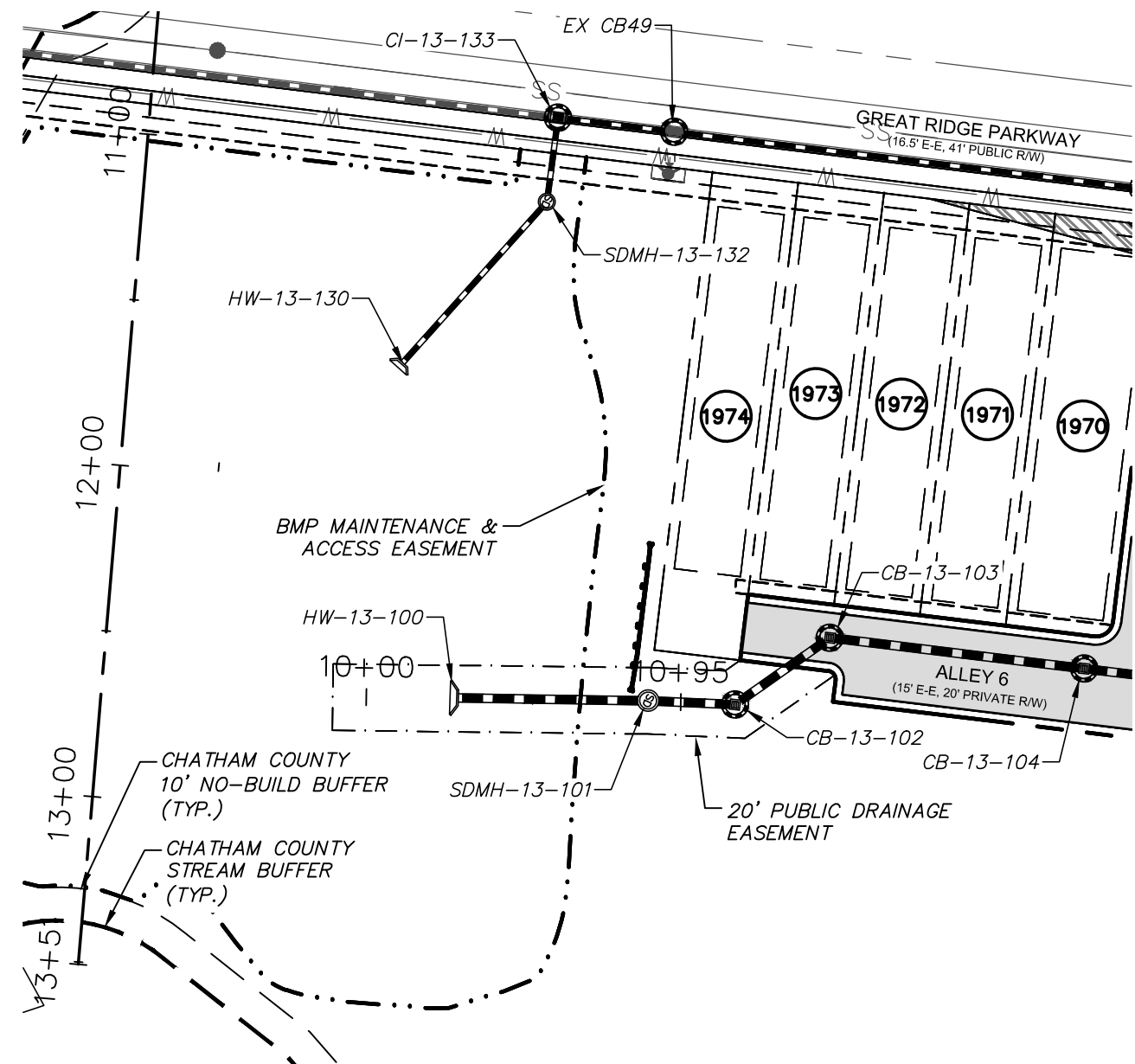


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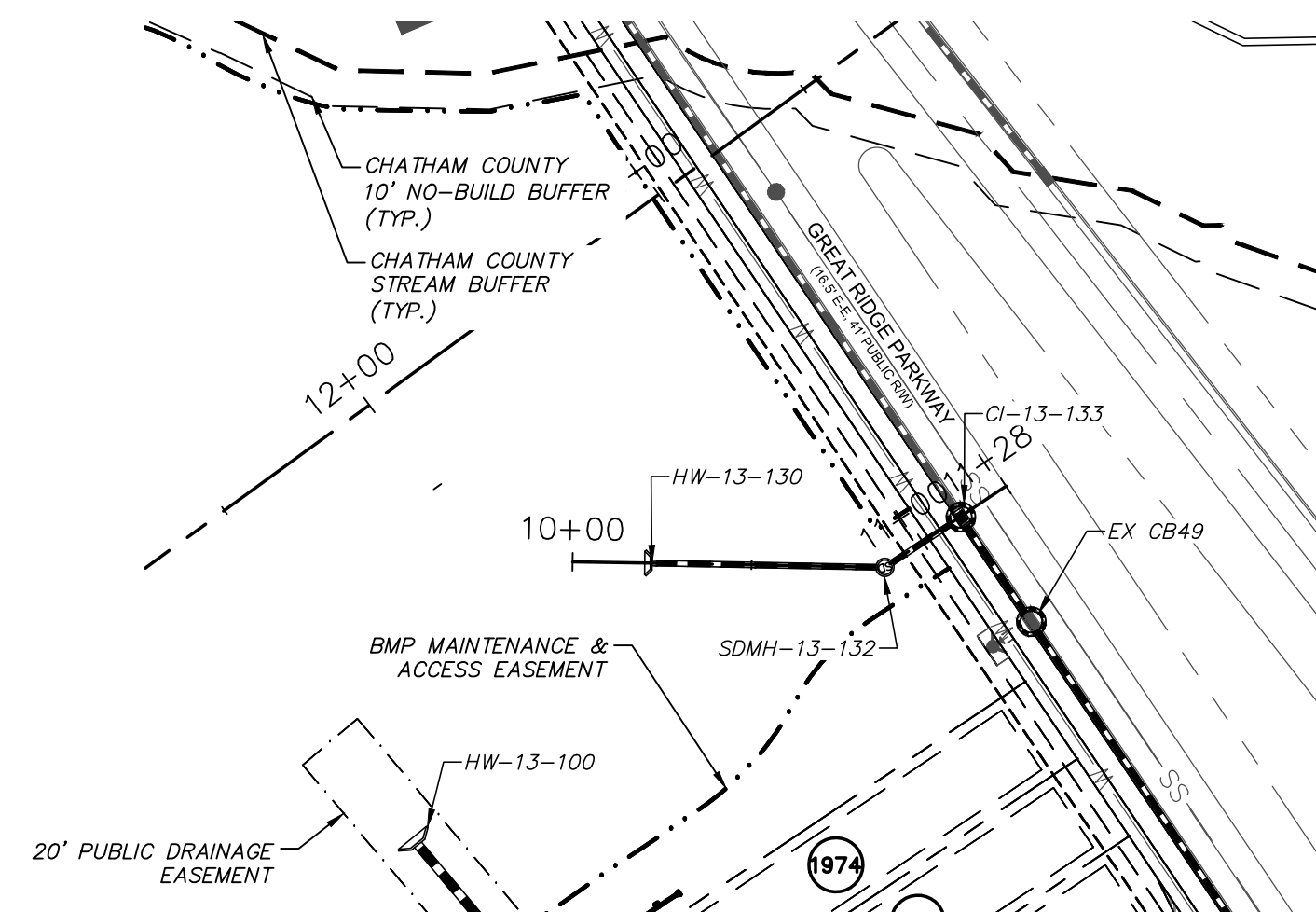
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PHASE 13 - SECTION 1 & 2
CHATHAM COUNTY, NORTH CAROLINA
PLAN & PROFILE
ALLEY 5: STA. 10+00.00 TO STA. 11+53.50
ALLEY 7: STA. 10+00.00 TO STA. 11+53.50
STORM CROSSING: 10+00.00 TO STA. 14+32.33

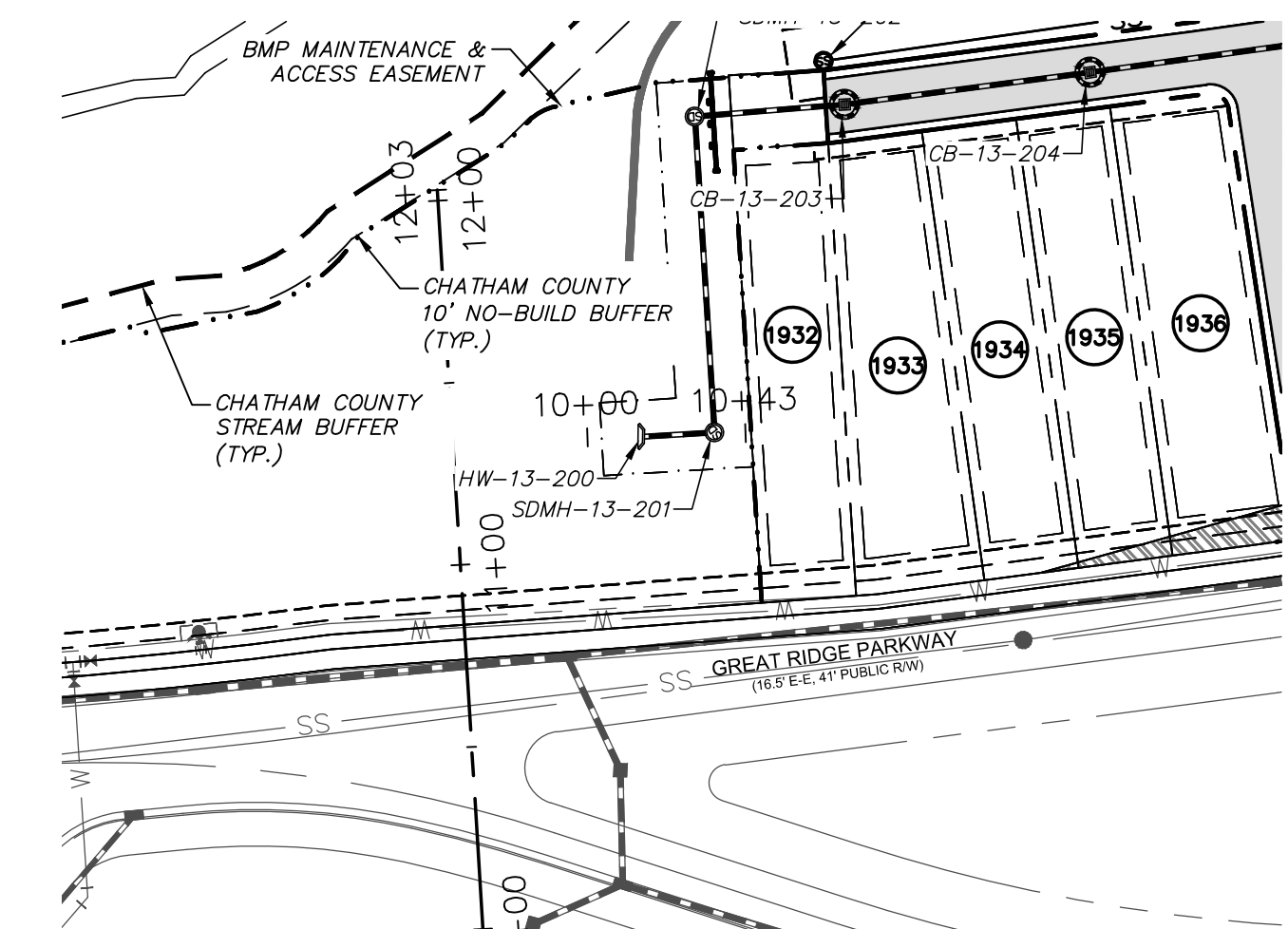
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CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FOR REVIEW PURPOSES ONLY		
REVISION: 3		



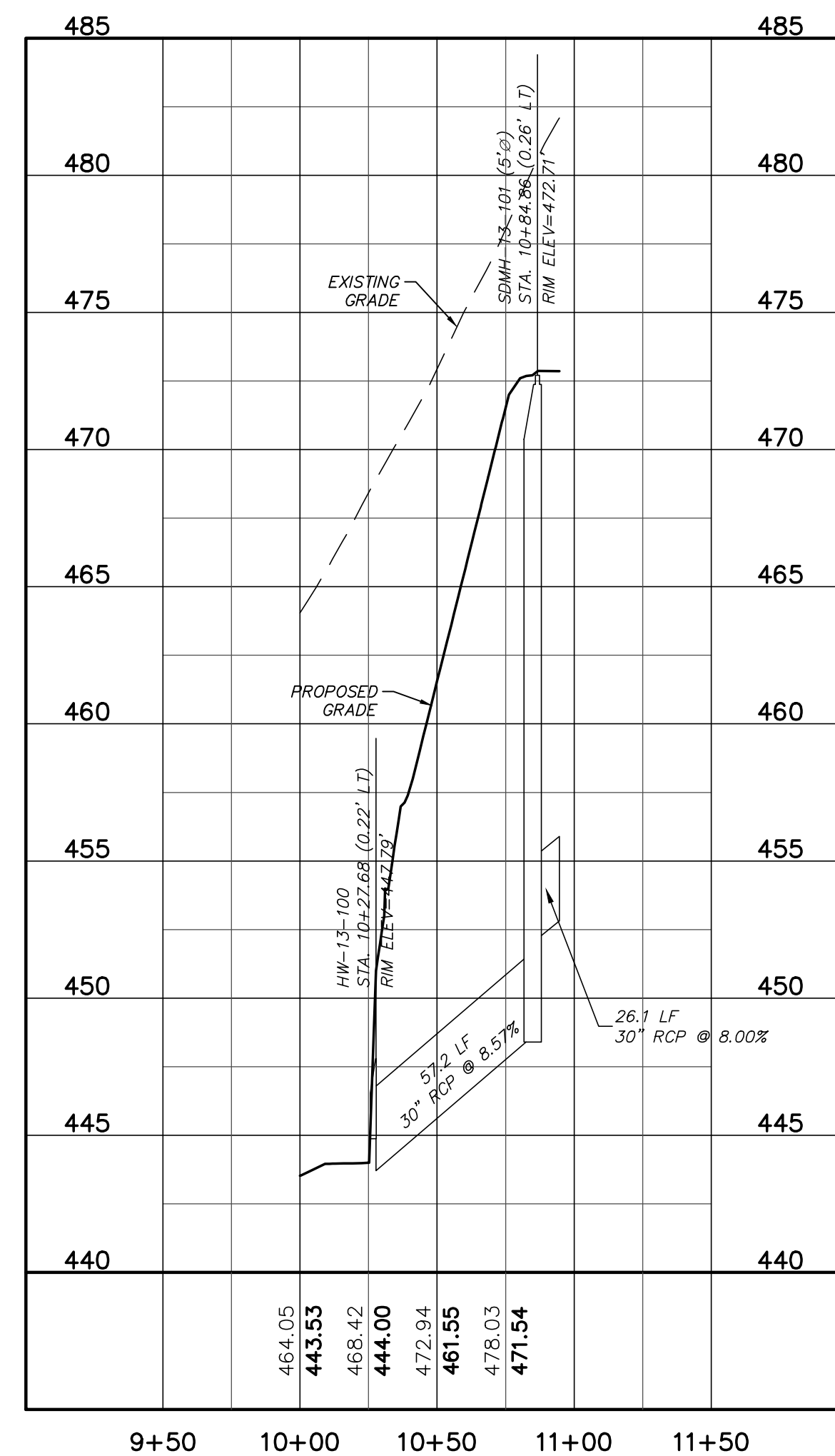
BMP #33 EASTERN OUTFALL PLAN
 (STA. 10+00.00 TO 10+94.64)
 SCALE: 1"=50'



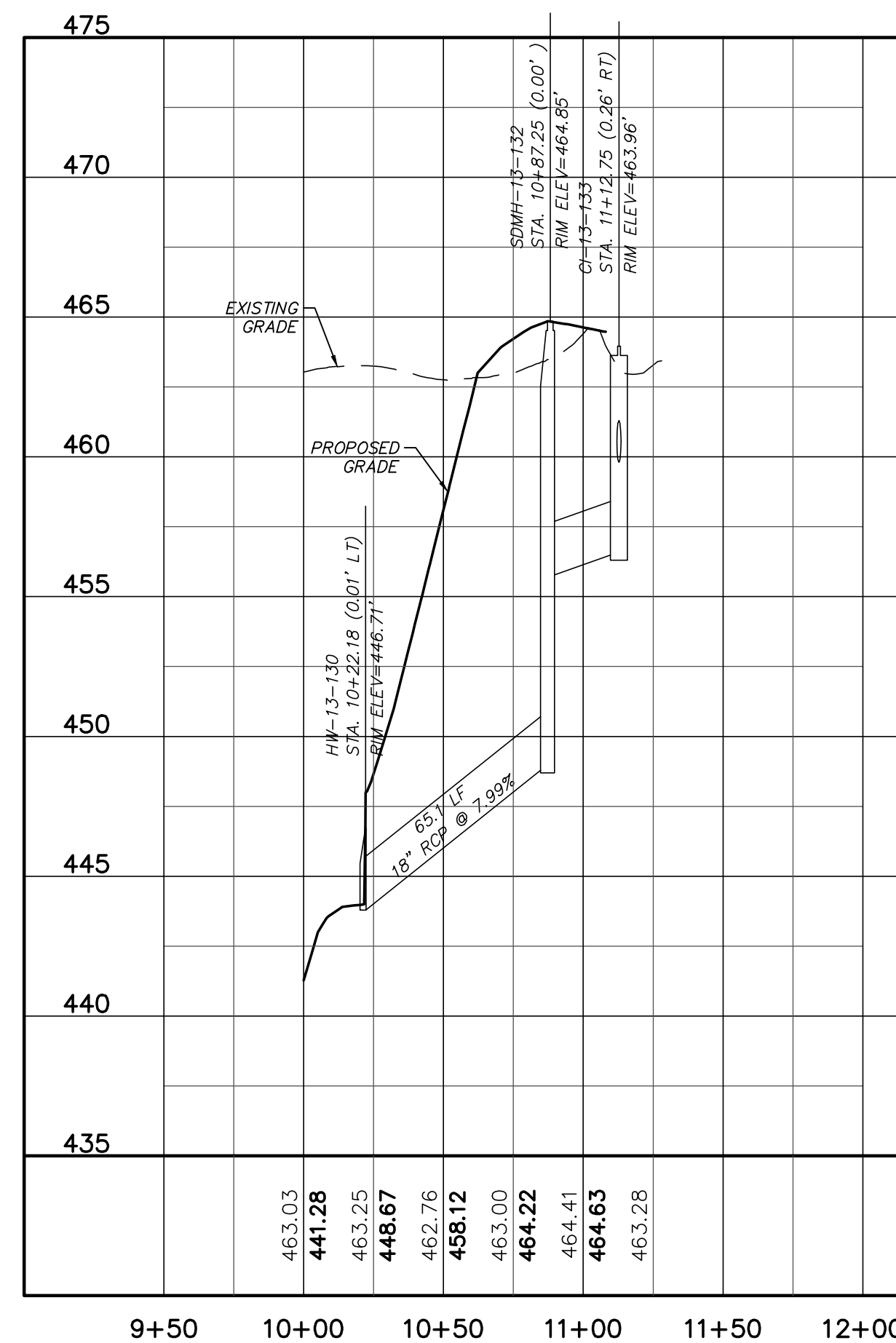
BMP #33 WESTERN OUTFALL PLAN
 (STA. 10+00.00 TO 10+72.25)
 SCALE: 1"=50'



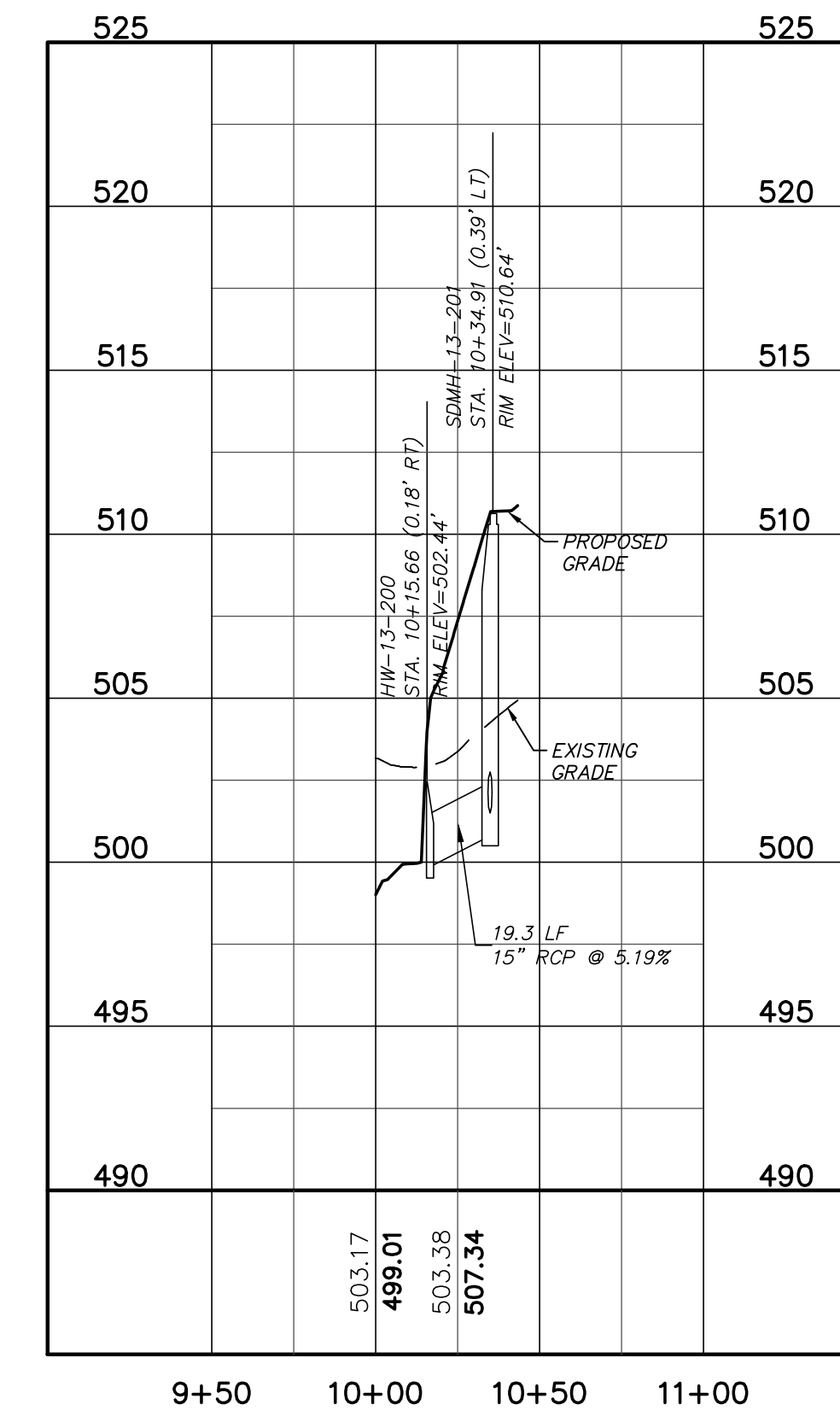
BMP #34 OUTFALL PLAN
 (STA. 10+00.00 TO 10+43.53)
 SCALE: 1"=50'



BMP #33 EASTERN OUTFALL PROFILE
 (STA. 10+00.00 TO 10+94.64)
 SCALE: (Horiz.) 1"=50'; (Vert.) 1"=5'

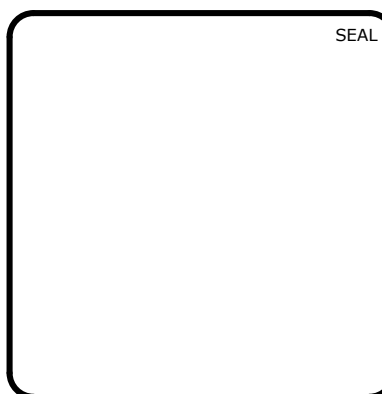


BMP #33 WESTERN OUTFALL PROFILE
 (STA. 10+00.00 TO 10+72.25)
 SCALE: (Horiz.) 1"=50'; (Vert.) 1"=5'



BMP #34 OUTFALL PROFILE
 (STA. 10+00.00 TO 10+43.53)
 SCALE: (Horiz.) 1"=50'; (Vert.) 1"=5'

REV. NO.	DESCRIPTIONS	DATE
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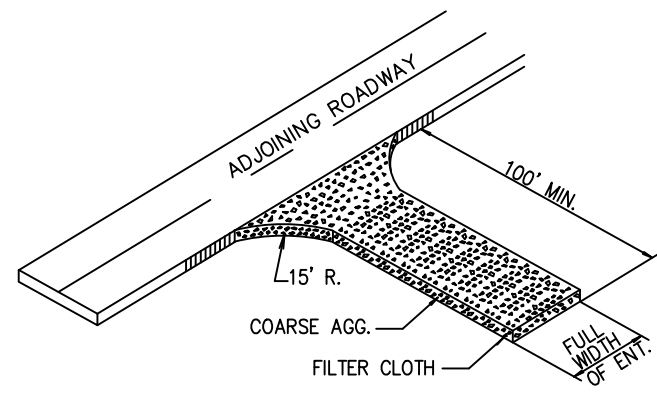


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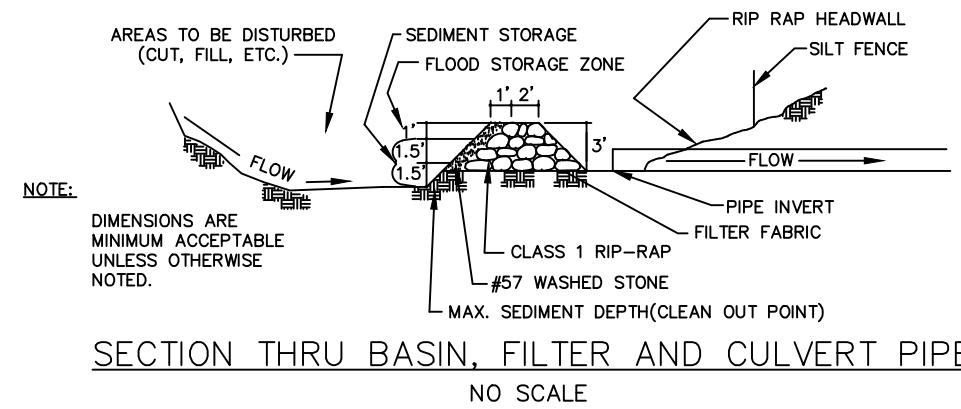
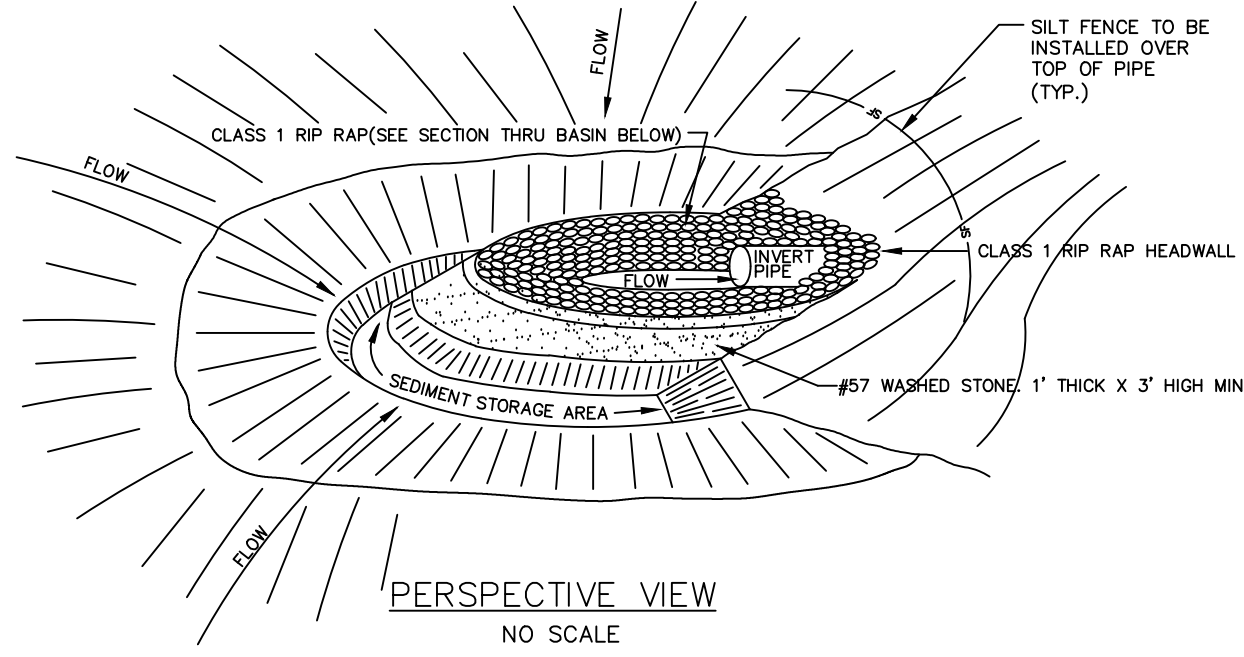
BRIAR CHAPEL
 PHASE 13 - SECTION 1 & 2
 CHATHAM COUNTY, NORTH CAROLINA
 PLAN & PROFILE
 BMP #33 EAST OUTFALL: STA. 10+00.00 TO STA. 10+94.64
 BMP #33 WEST OUTFALL: STA. 10+00.00 TO STA. 10+72.25
 BMP #34 OUTFALL: 10+00.00 TO STA. 10+43.53

DATE: JULY 26, 2017	SCALE: 1" = 50'	M&C FILE NUMBER: C4.X
M&C PROJ. # 02735-0198	HORIZONTAL: 1" = 50'	DRAWING NUMBER: C4.5
DRAWN: BSS	VERTICAL: N/A	
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CHECKED: GCA		
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STATUS: FOR REVIEW PURPOSES ONLY		REVISION: 3

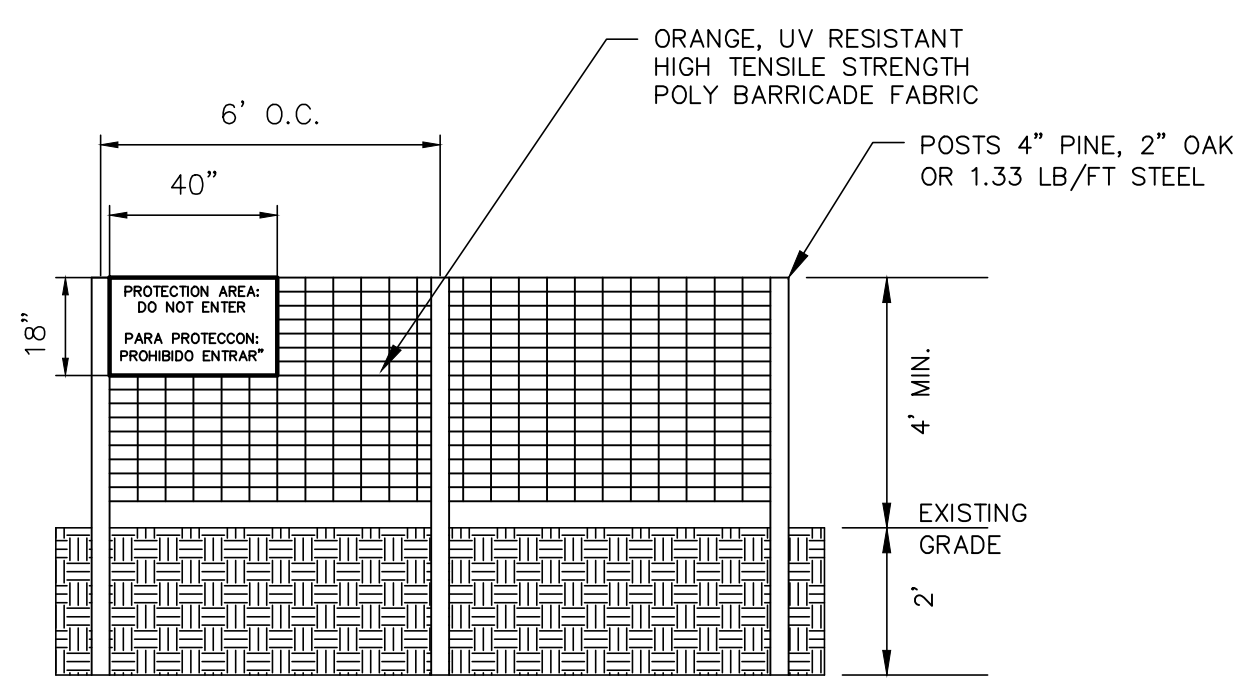


- COARSE AGGREGATE (2"-3" STONE) SHALL BE USED. PAD TO BE 100' X 25' X 6" MIN. PLACE A MINIMUM OF 3" OF STONE IN A CUT SECTION TO HELP SECURE FILTER CLOTH.
- TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS IS TO BE PROVIDED.
- ENTRANCES SHOULD BE LOCATED TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION 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

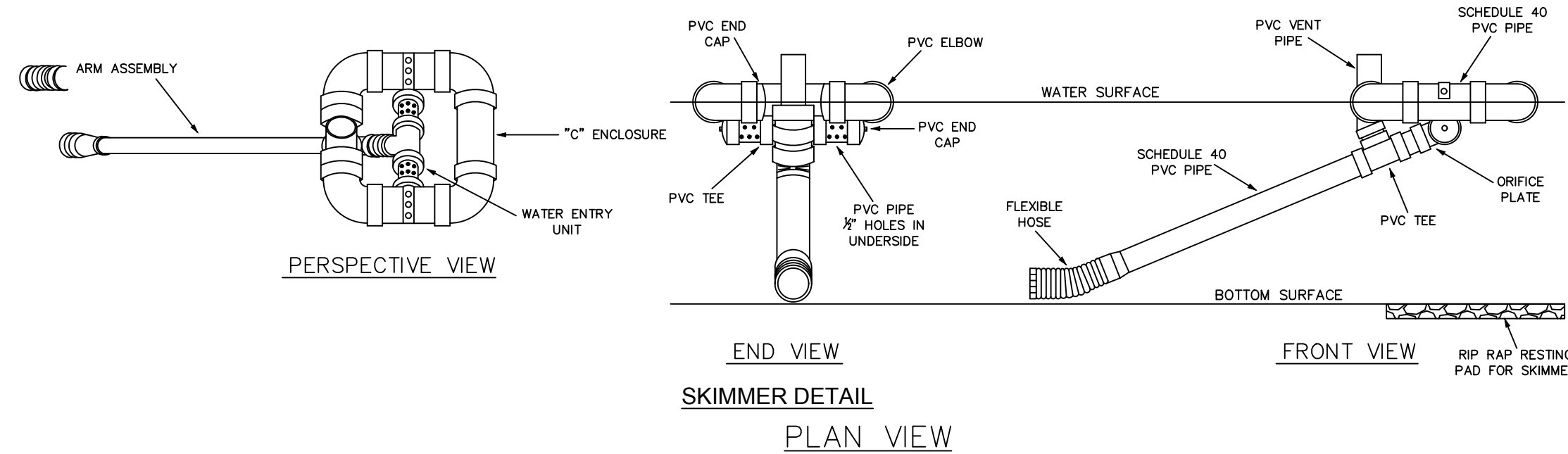


ARC FILTER INLET PROTECTION
NTS



- 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.

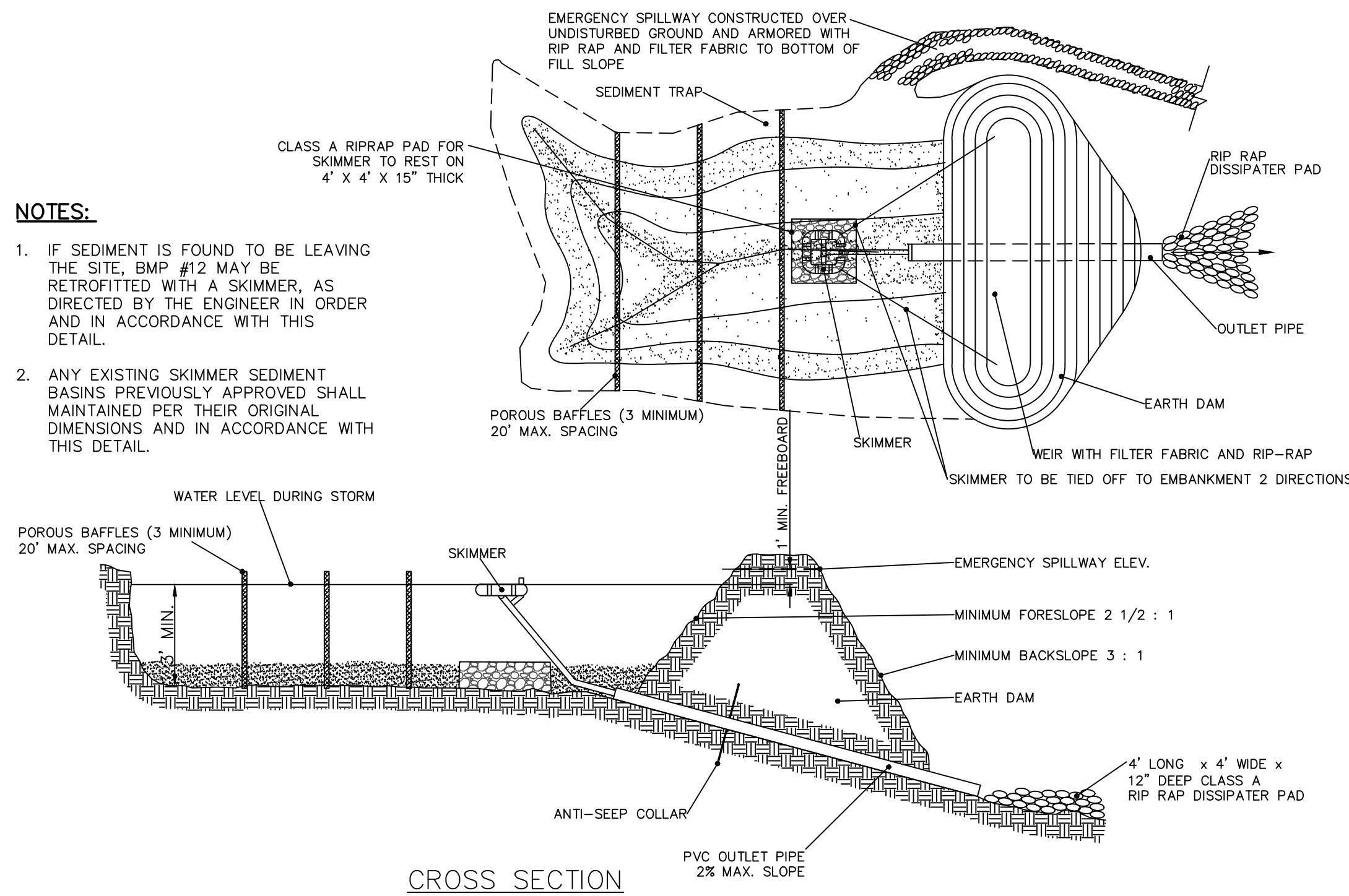
TREE PROTECTION FENCE
NTS



SKIMMER DETAIL
PLAN VIEW

NOTES:

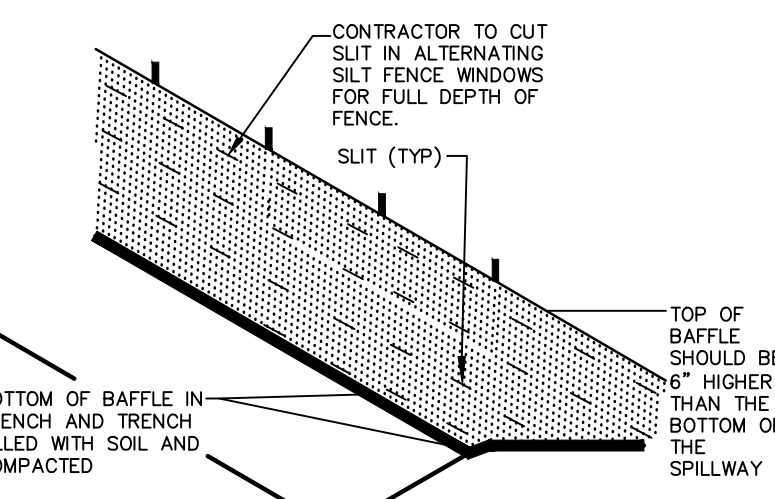
- IF SEDIMENT IS FOUND TO BE LEAVING THE SITE, BMP #12 MAY BE RETROFITTED WITH A SKIMMER, AS DIRECTED BY THE ENGINEER IN ORDER AND IN ACCORDANCE WITH THIS DETAIL.
- ANY EXISTING SKIMMER SEDIMENT BASINS PREVIOUSLY APPROVED SHALL MAINTAINED PER THEIR ORIGINAL DIMENSIONS AND IN ACCORDANCE WITH THIS DETAIL.



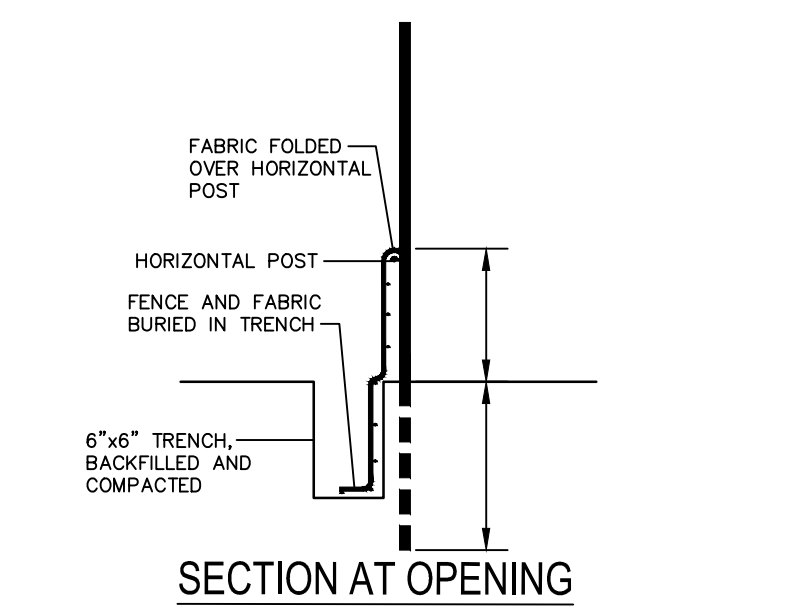
TEMPORARY SKIMMER SEDIMENT BASIN
NTS

BASIN #	DISTURBED AREA (ac)	TOTAL DRAINAGE AREA (ac)	REQUIRED STORAGE	REQUIRED SURFACE AREA	MINIMUM DEPTH	BOTTOM ELEVATION	TOP WIDTH	TOP LENGTH	PROVIDED STORAGE	PROVIDED SURFACE AREA	STORAGE/ SPILLWAY ELEVATION	SPILLWAY WIDTH	TOP OF DAM ELEVATION	SKIMMER SIZE	SKIMMER ORIFICE DIAMETER
STAGE 1															
1	4.51	4.51	16,240 CF	7,380 SF	3.0'	484.0'	184'	46'	17,544 CF	8,464 SF	487.0'	19.0'	489.0'	2.5"	2.4"
2/BMP #33	5.06	5.06	18,220 CF	8,280 SF	5.0'	439.0'	PER PLANNER PLAN	68,404 CF	20,953 SF	448.0'	22.0'	450.0'	5.0"	4.2"	
3	1.40	1.40	5,040 CF	2,290 SF	3.5'	483.5'	62'	24'	5,208 CF	2,775 SF	447.0'	6.0'	489.0'	2.0"	1.4"
STAGE 2															
BMP #34	1.44	1.44	5,180 CF	2,360 SF	3.0'	498.0'	PER PLANNER PLAN	9,956 CF	6,280 SF	501.0'	22.0'	503.0'	2.5"	1.8"	

BAFFLE INSTALLATION - STEP 1

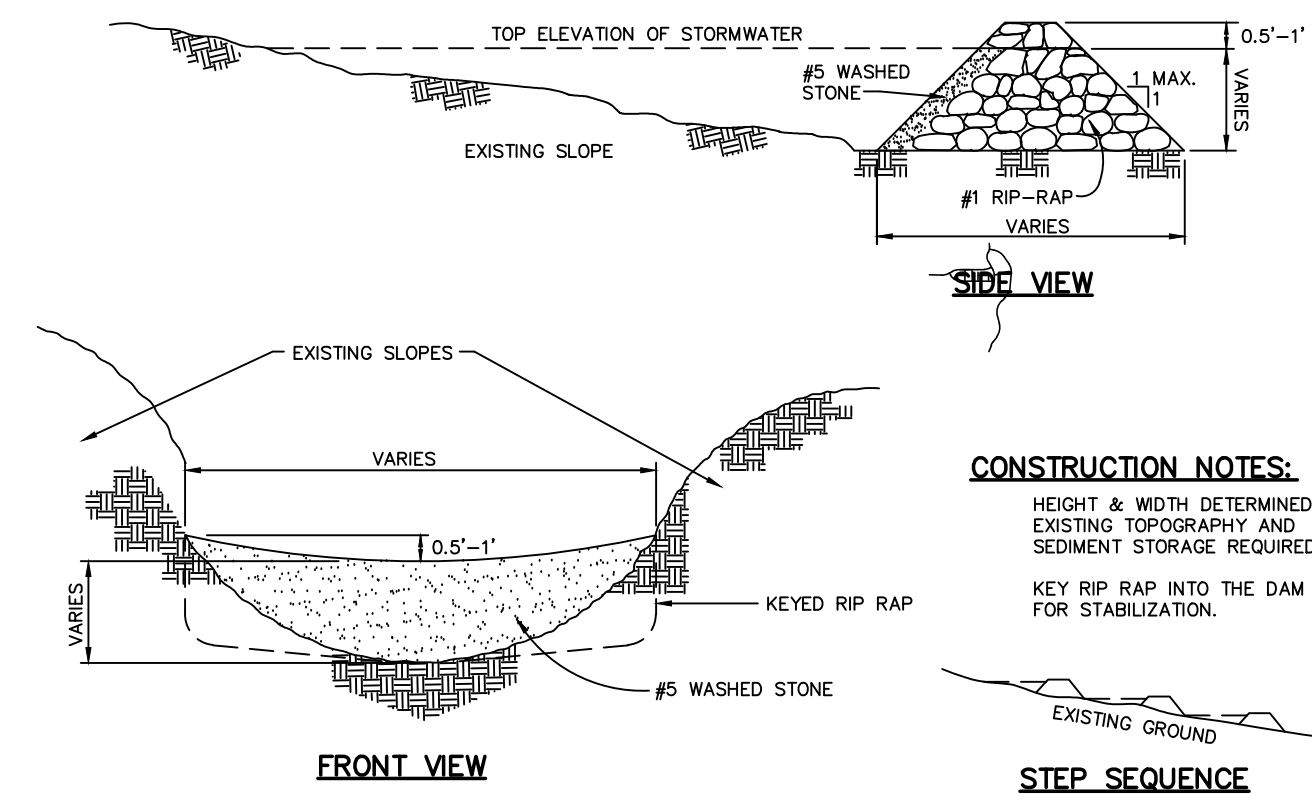


BAFFLE INSTALLATION - STEP 2



- SECTION AT OPENING**
- NOTES:**
- DRIVE STEEL FENCE POST AT LEAST 18" INTO SOLID GROUND.
 - WOOD POSTS ARE NOT ACCEPTABLE.
 - USE STAPLES 1" APART TO ATTACH FABRIC TO "HOG WIRE".
 - BAFFLE SPACED AS PER APPROVED PLAN.

BAFFLE INSTALLATION DETAIL

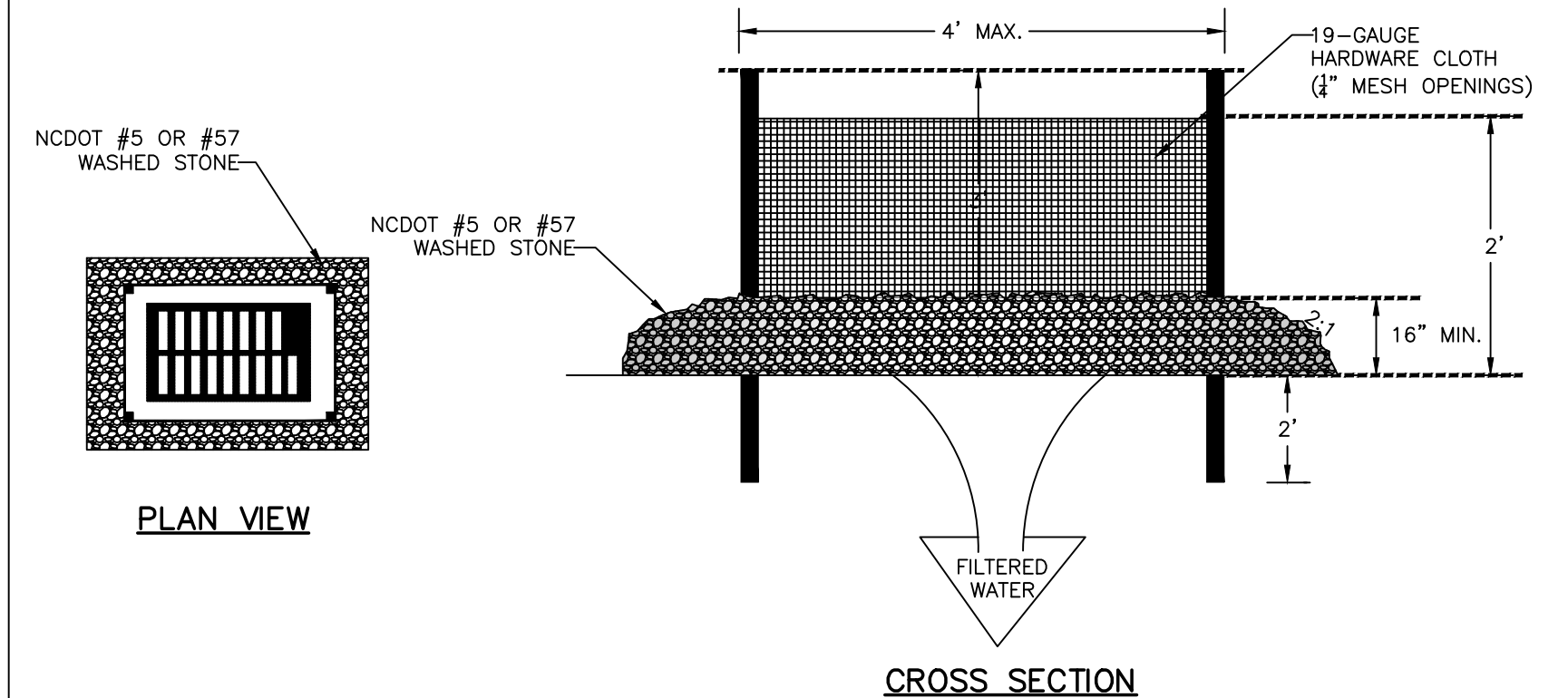


- CONSTRUCTION NOTES:**
- HEIGHT & WIDTH DETERMINED BY EXISTING TOPOGRAPHY AND SEDIMENT STORAGE REQUIRED.
 - KEY RIP RAP INTO THE DAM FOR STABILIZATION.

CHECK DAM
NTS

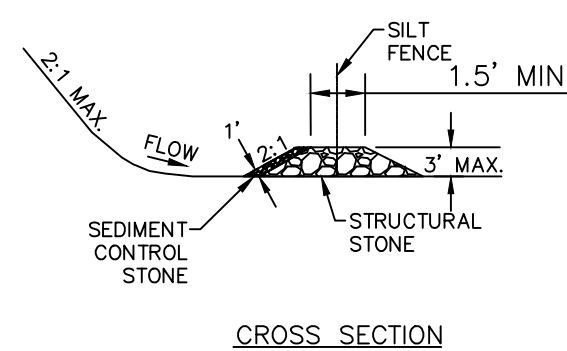
NOTES:

- UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
- DRIVE 5-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4 FEET APART.
- SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND BOTTOM. PLACING A 2-FOOT FLAP OF THE WIRE MESH UNDER THE GRAVEL (AS RECOMMENDED).
- PLACE CLEAN GRAVEL (NC DOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16 INCHES AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
- ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
- COMPACT THE AREA PROPERLY AND STABILIZED IT WITH GROUND COVER.

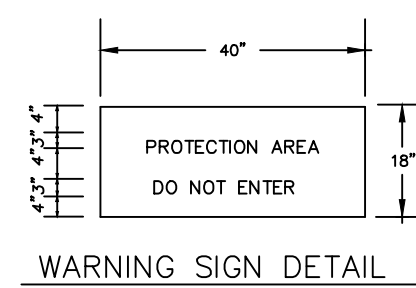
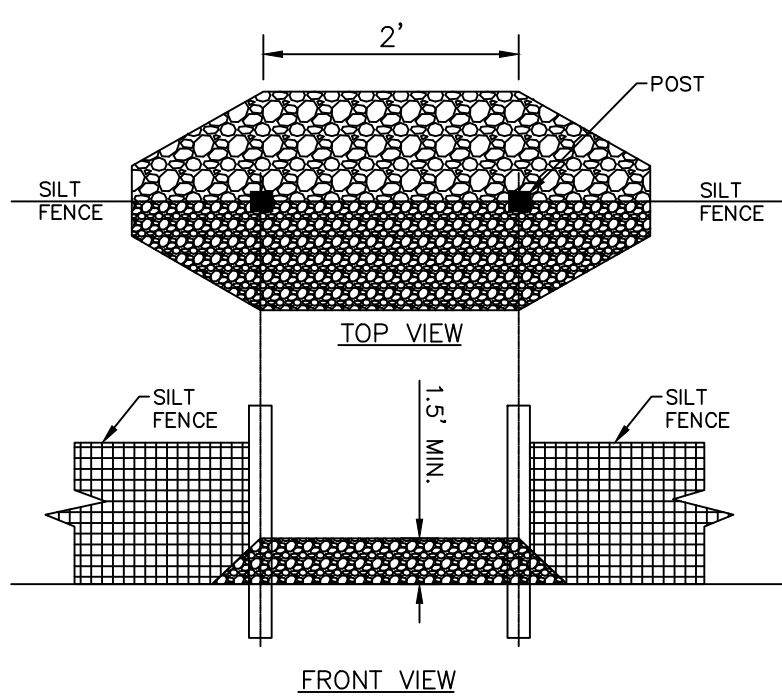


HARDWARE CLOTH & GRAVEL INLET PROTECTION
NTS

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

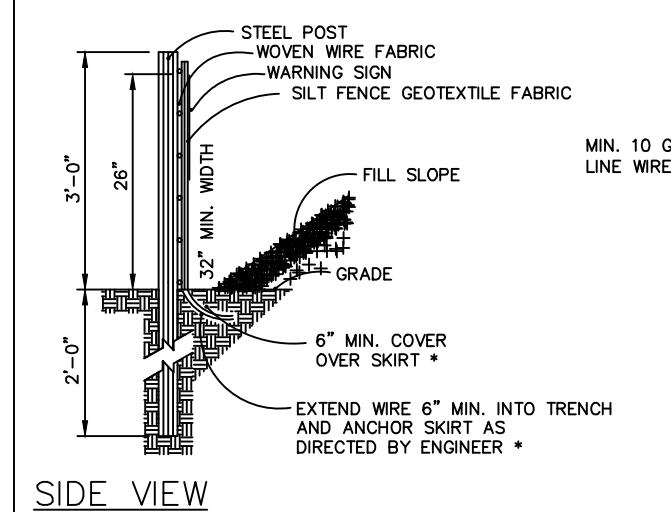


SILT FENCE OUTLET
NTS

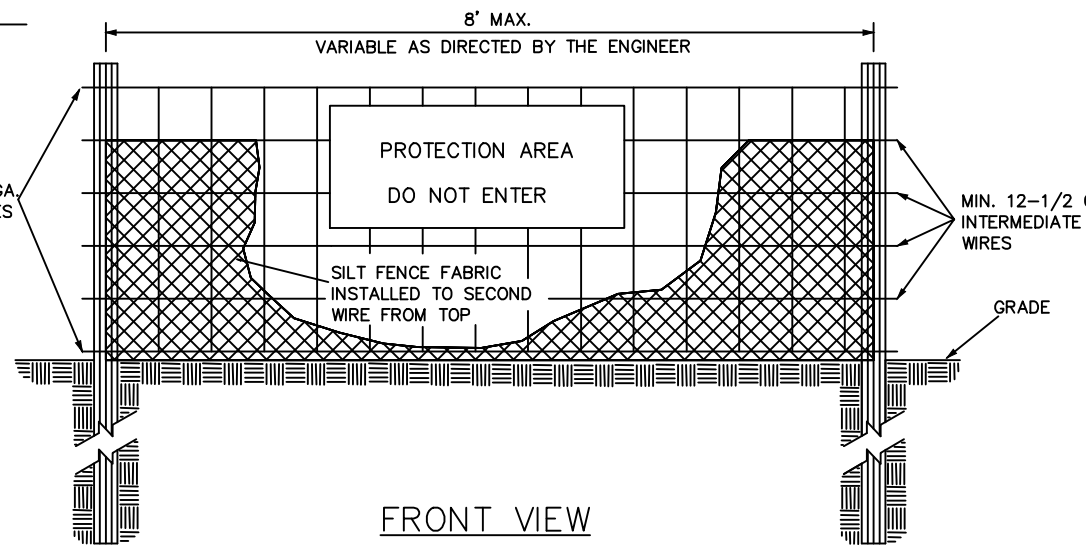


WARNING SIGN DETAIL

- *FOR REPAIR OF SILT FENCE FAILURES, USE NO. 57 WASHED STONE. FOR ANCHOR WHEN SILT FENCE IS PROTECTING CATCH BASIN.



SIDE VIEW



FRONT VIEW

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 CHATHAM COUNTY BASED ON ACTUAL FIELD CONDITIONS.
 - PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER.
 - FLOW SHALL NOT RUN PARALLEL WITH THE FENCE.
 - END OF SILT FENCE NEEDS TO BE TURNED UPHILL.
 - SEE NCDENR PRACTICE & SPECIFICATIONS MANUAL SEDIMENTS FENCE SECTION FOR CONDITIONS WHERE PRACTICE APPLIES AND DESIGN CRITERIA.

REV. NO.	DESCRIPTIONS	DATE
3	REVISIONS PER COMMENTS RECEIVED FROM COUNTY EROSION CONTROL	2017.10.06
2	REVISIONS PER COMMENTS RECEIVED FROM NCDOT	2017.09.21
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0	SUBMITTAL TO AGENCIES	2017.07.26

SEAL

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CHATHAM COUNTY, NORTH CAROLINA

EROSION AND SEDIMENTATION CONTROL DETAILS

DATE: JULY 26, 2017	SCALE: D1.1	MISC FILE NUMBER: D1.1
MCE PROJ. # 02735-0198	HORIZONTAL: N/A	DRAWING NUMBER: D1.1
DRAWN: BSS	VERTICAL: N/A	
DESIGNED: BSS		
CHECKED: GCA		
PROJ. MGR.: CHS		
STATUS: FOR REVIEW PURPOSES ONLY	REVISION: 3	