

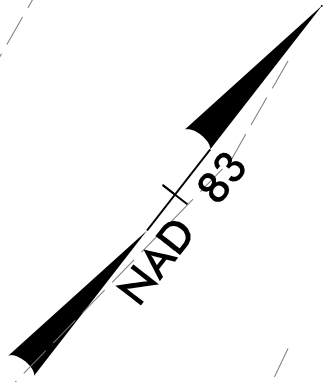
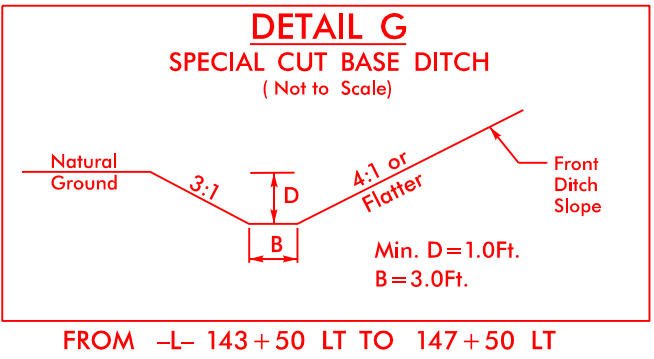
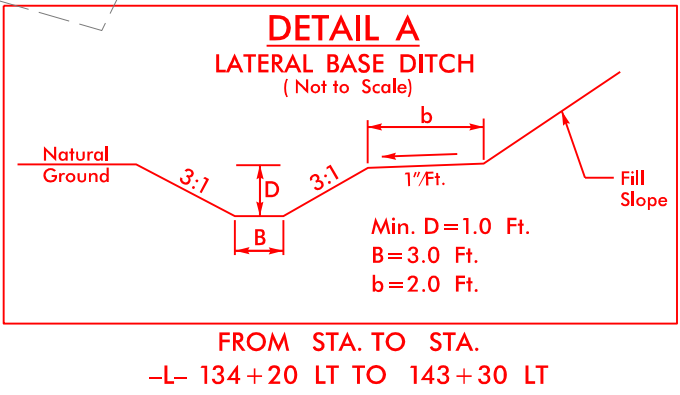
8/17/99

REVISIONS
Design Revision Z-13-12 Revised ditch left of -L- according to Detail G.

11/2/2013
R:\Hydraulics\PERMITS\Environmental Drawings\PSH\3620_Hyd_psh_13.dgn

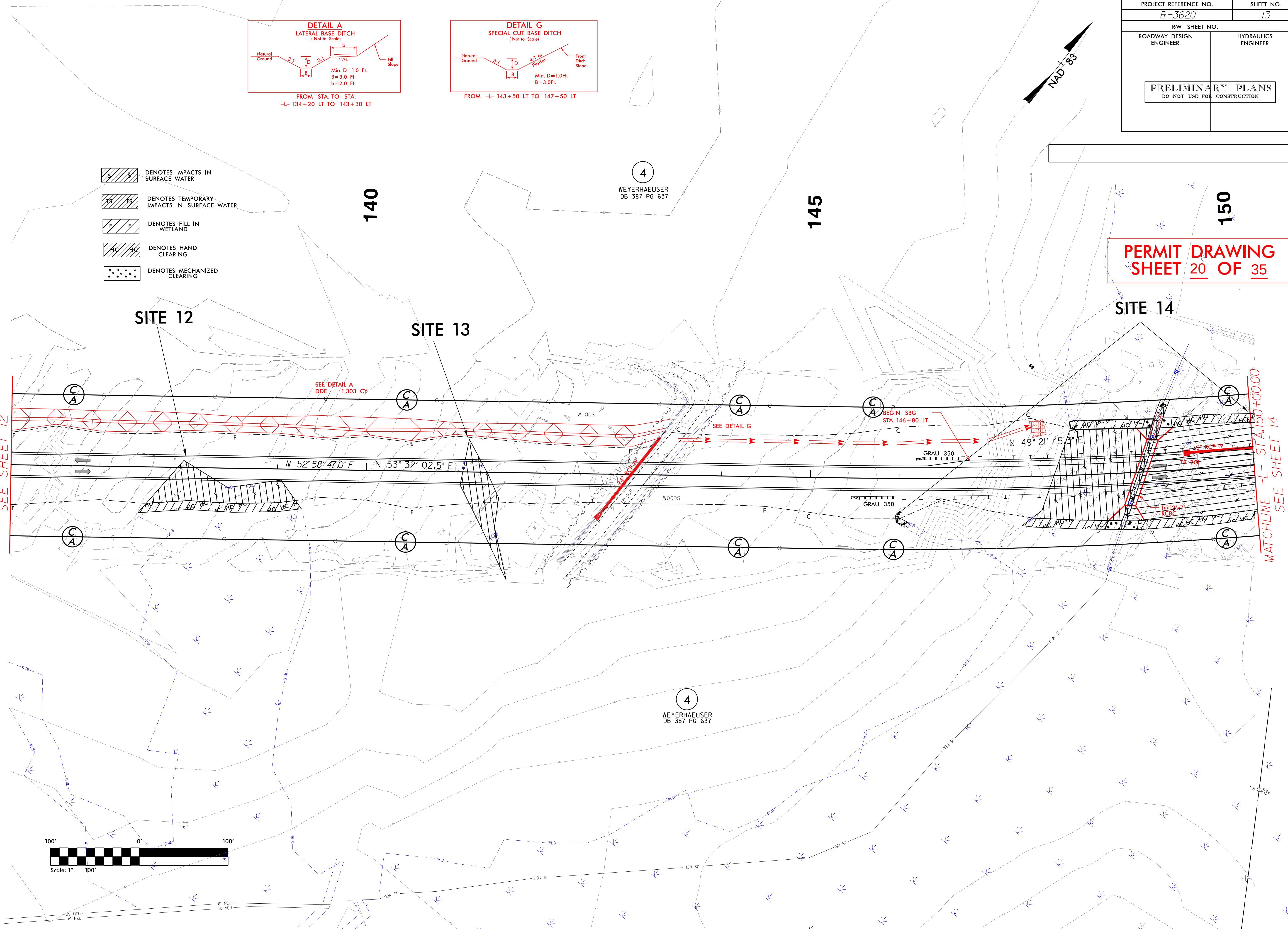
PROJECT REFERENCE NO. R-3620	SHEET NO. 13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

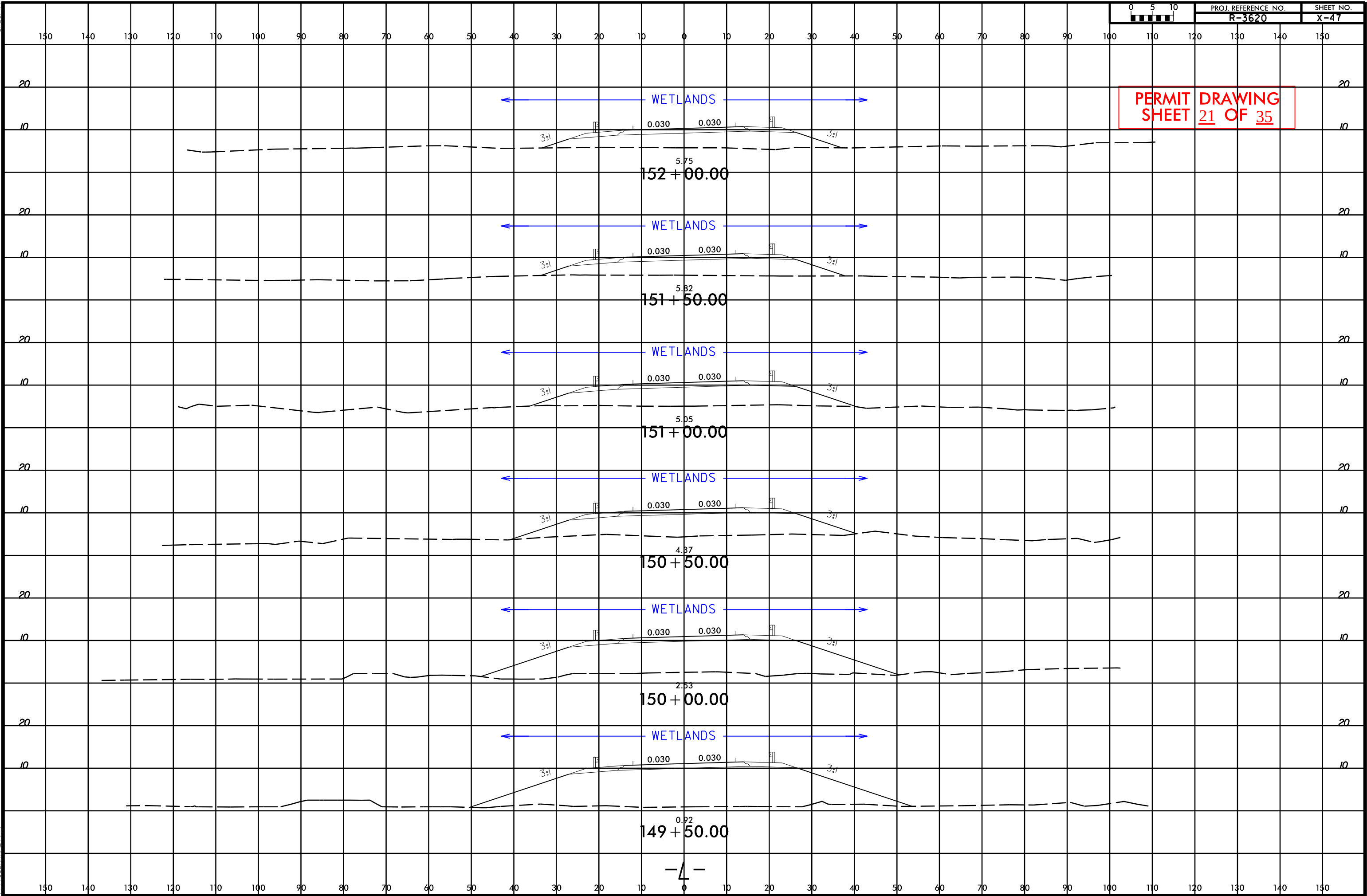
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES FILL IN WETLAND
- DENOTES HAND CLEARING
- DENOTES MECHANIZED CLEARING

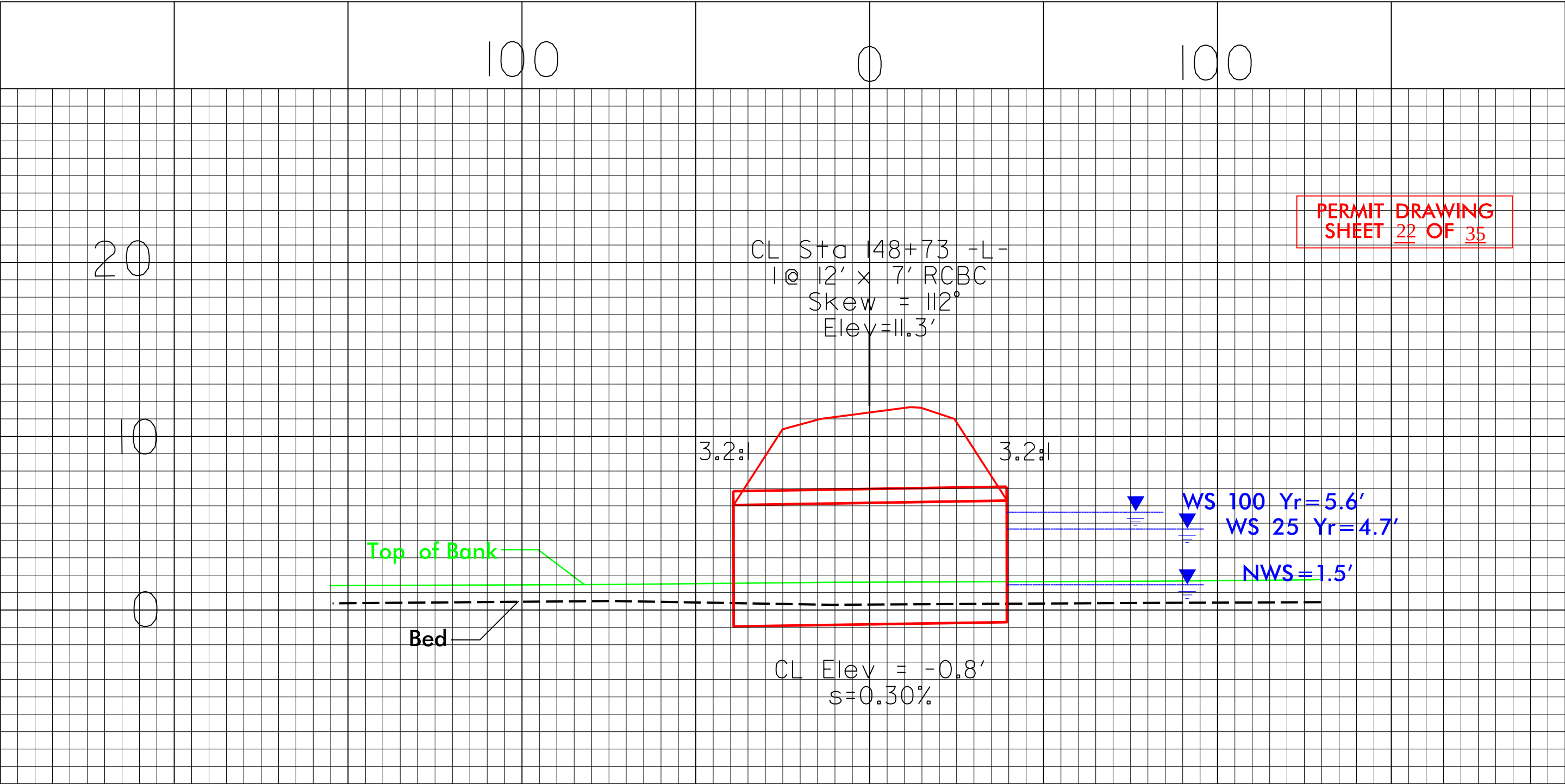


MATCHLINE -L- STA.136+00.00
SEE SHEET 12

MATCHLINE -L- STA.150+00.00
SEE SHEET 14







PROJECT REFERENCE NO. <i>R-3620</i>		SHEET NO. <i>14</i>
RW SHEET NO. _____		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		

FOR -L- PROFILE, SEE SHEET NO. 24

PERMIT DRAWING
SHEET 23 OF 35

6
ALBEMARLE BEACH FARMS, INC
DB 442 PG 935

5
REBECCA PIERCE HEIRS
DB 371 PG 169
PC2 115B

4
WEYERHAEUSER
DB 387 PG 637

F F DENOTES FILL IN WETLAND
HC HC DENOTES HAND CLEARING



160

155

SITE 14

MATCHLINE -L- STA. 150+00.00
SEE SHEET 13

MATCHLINE -L- STA. 164+00.00
SEE SHEET 15

3.0' BASE DITCH
SEE DETAIL A
DDE = 633 CY

END SBG
STA. 157+97 LT.

CLASS B RIP RAP
EST. 12.0 TONS
EST. GEOTEXTILE 8.0 S.Y.

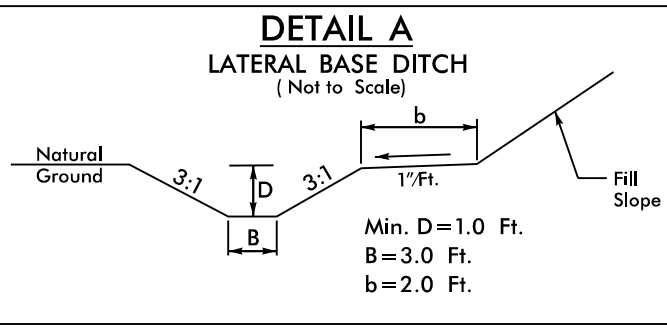
GRAU 350

GRAU 350

WOODS

CLASS B RIP RAP
EST. 16.0 TONS
EST. GEOTEXTILE 8.0 S.Y.

3.0' BASE DITCH
SEE DETAIL A
DDE = 748 CY

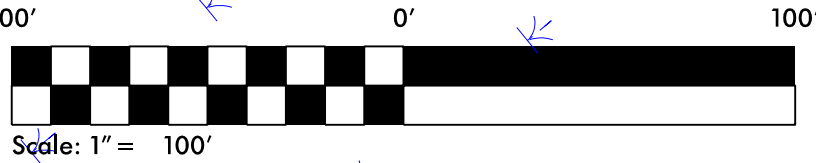


FROM STA. TO STA.
-L- 157+50 LT TO 167+00 LT
-L- 158+00 RT TO 166+00 RT

6
ALBEMARLE BEACH FARMS, INC
DB 442 PG 935

5
REBECCA PIERCE HEIRS
DB 371 PG 169
PC2 115B

4
WEYERHAEUSER
DB 387 PG 637



REVISIONS

8/17/99

10/2/2013
R:\Hydraulics\PERMITS_Environmental\Drawings\PSH\R3620_Hyd_gsh_14.dgn

PROJECT REFERENCE NO. <i>R-3620</i>		SHEET NO. <i>14</i>
RW SHEET NO. _____		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		

FOR -L- PROFILE, SEE SHEET NO. 24

PERMIT DRAWING
SHEET 24 OF 35

6
ALBEMARLE BEACH FARMS, INC
DB 442 PG 935

5
REBECCA PIERCE HEIRS
DB 371 PG 169
PC2 115B

4
WEYERHAEUSER
DB 387 PG 637

F F DENOTES FILL IN
WETLAND
HC HC DENOTES HAND
CLEARING

SITE 14

155

160



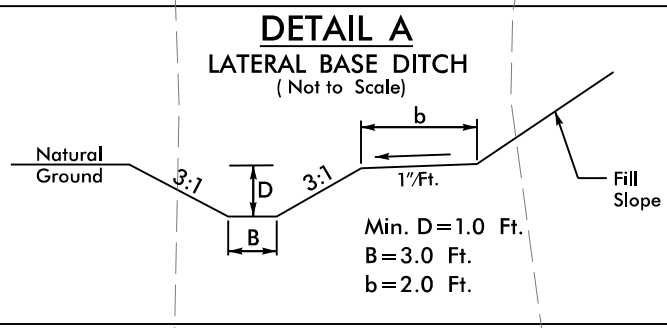
MATCHLINE -L- STA. 150+00.00
SEE SHEET 13

MATCHLINE -L- STA. 164+00.00
SEE SHEET 15

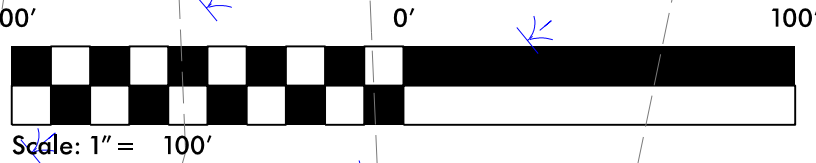
6
ALBEMARLE BEACH FARMS, INC
DB 442 PG 935

5
REBECCA PIERCE HEIRS
DB 371 PG 169
PC2 115B

4
WEYERHAEUSER
DB 387 PG 637



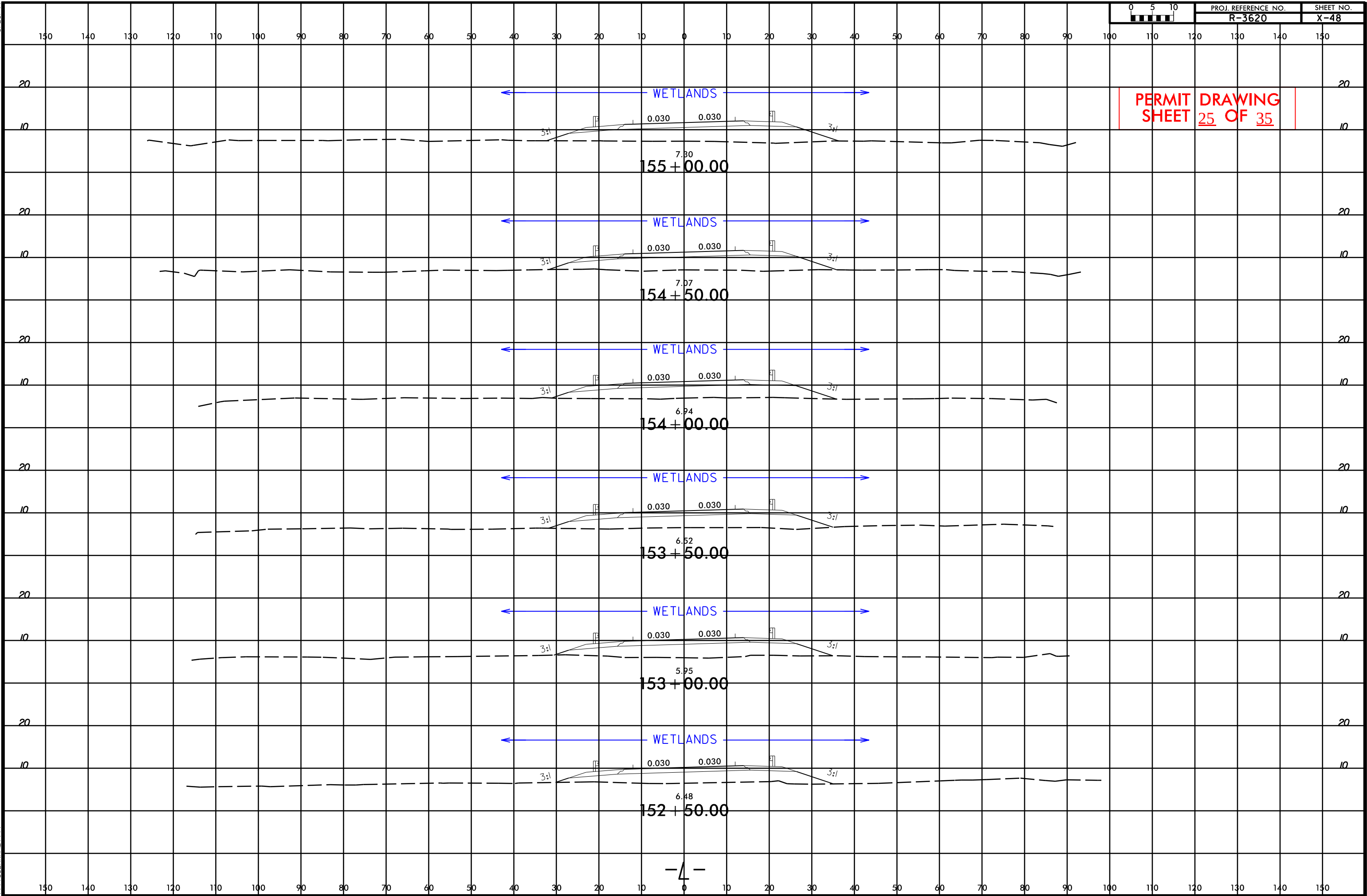
FROM STA. TO STA.
-L- 157+50 LT TO 167+00 LT
-L- 158+00 RT TO 166+00 RT



REVISIONS

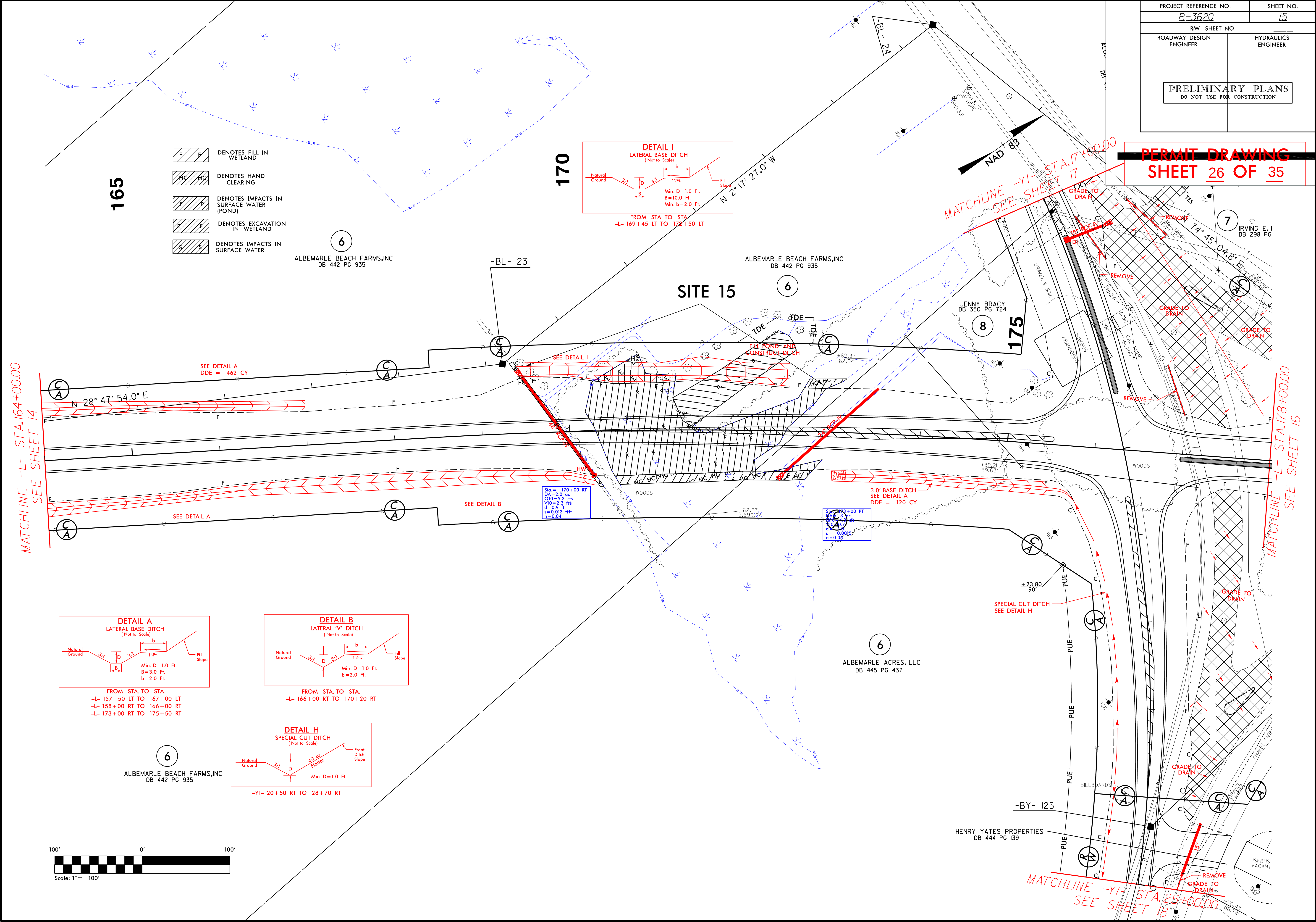
8/17/99

10/2/2013
R:\Hydraulics\PERMITS_Environmental\Drawings\PSH\R3620_Hyd_gsh_14.dgn

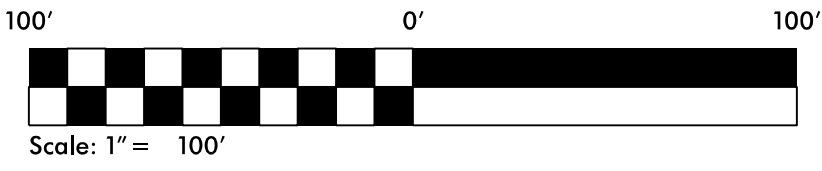
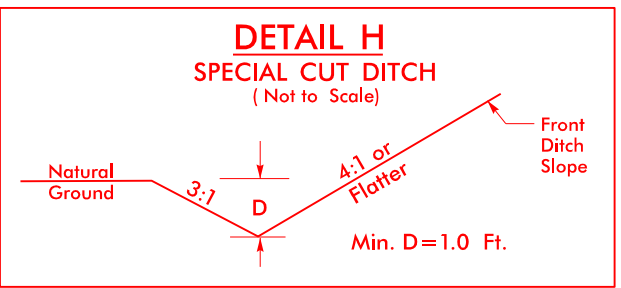
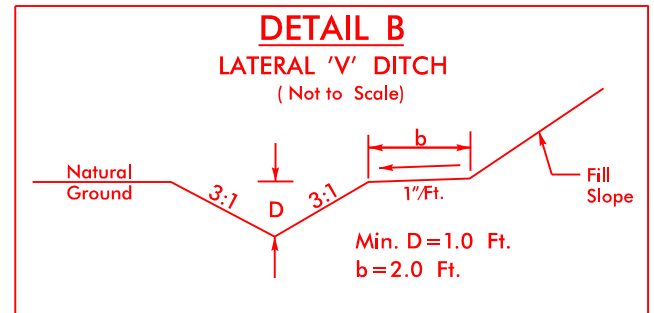
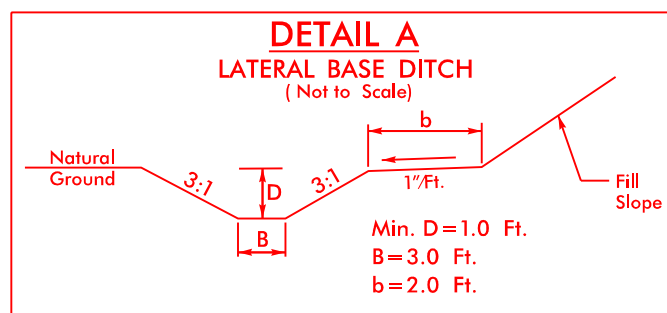
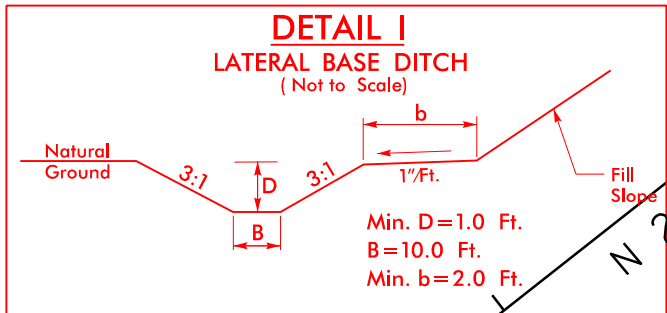


PROJECT REFERENCE NO.	SHEET NO.
R-3620	15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PERMIT DRAWING
SHEET 26 OF 35



- DENOTES FILL IN WETLAND
- DENOTES HAND CLEARING
- DENOTES IMPACTS IN SURFACE WATER (POND)
- DENOTES EXCAVATION IN WETLAND
- DENOTES IMPACTS IN SURFACE WATER

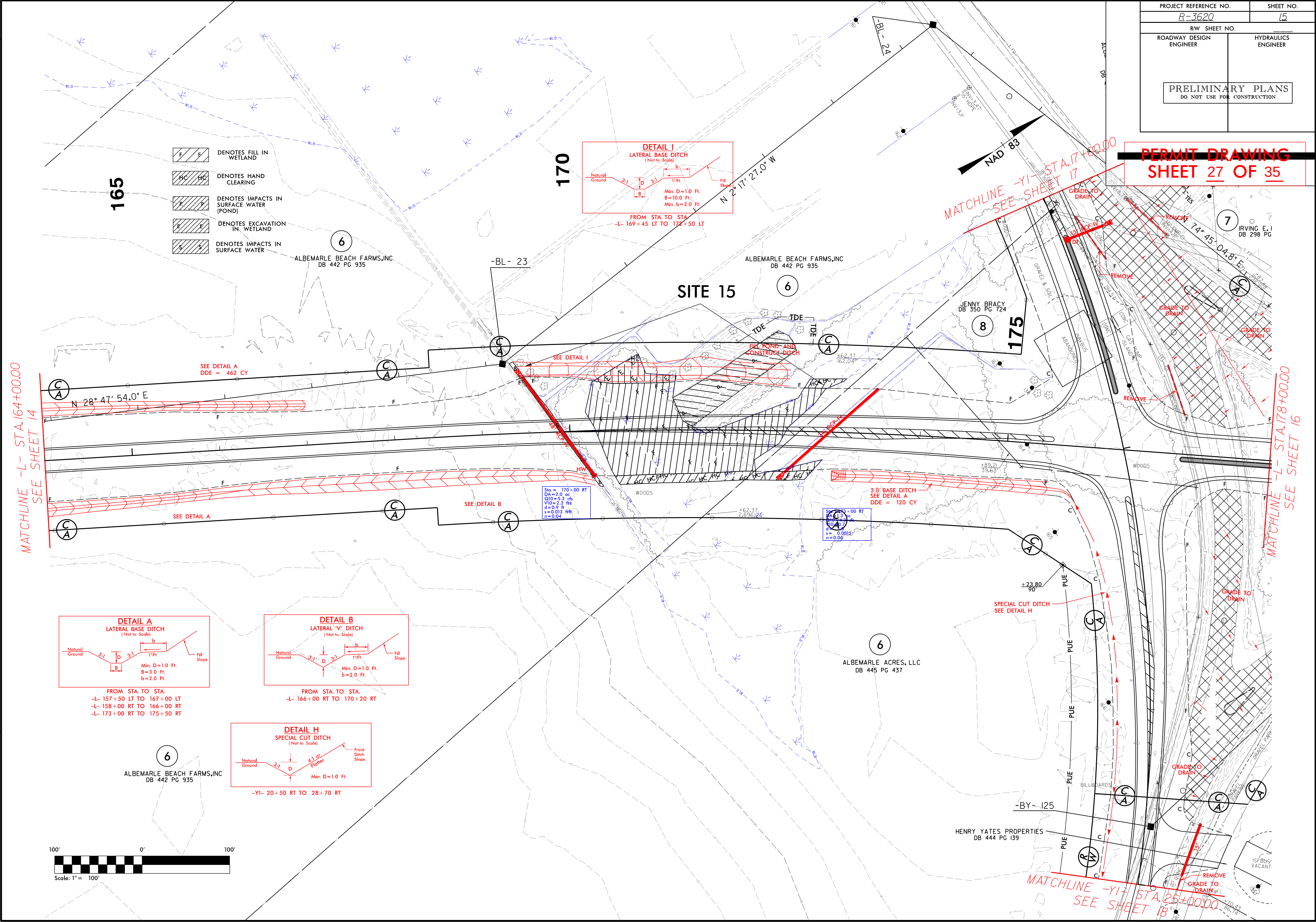


REVISIONS

07/24/2012 R/W REVISION (KEM) - MODIFIED EXISTING R/W ON PARCELS 006,007, AND 008.
Design Revision 1-13-12. Revised ditches right of -YI- according to Detail H. Revised the proposed EOP and lane geometry for the intersection of -L- -YI- according to Congestion Management recommendations.

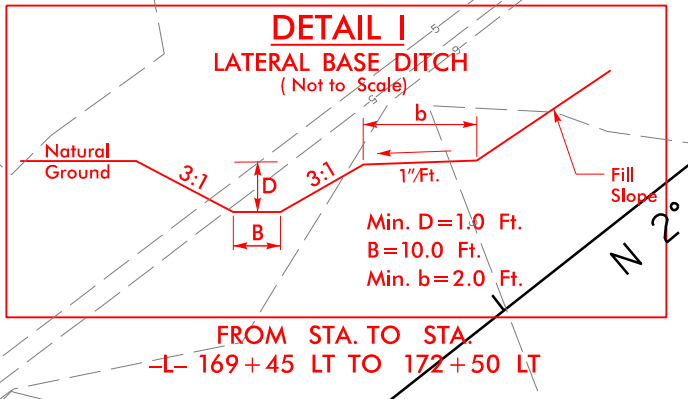
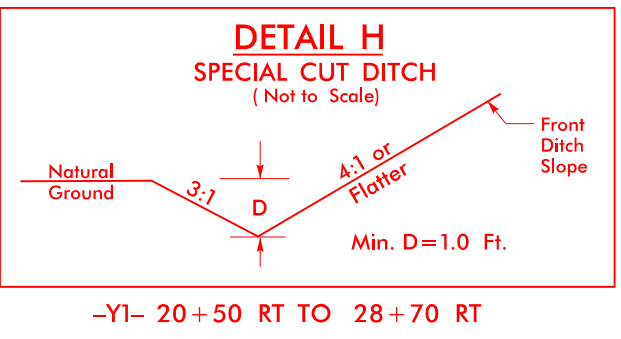
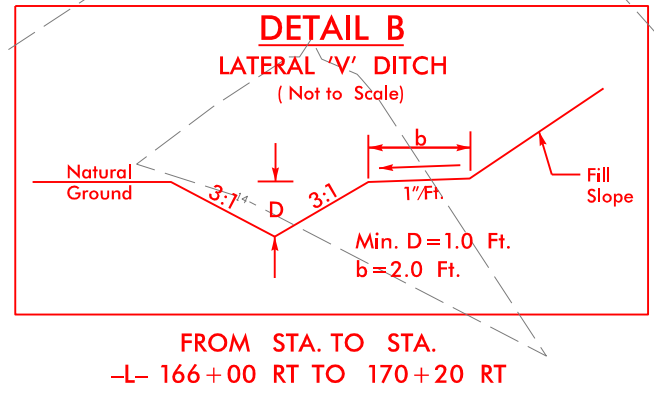
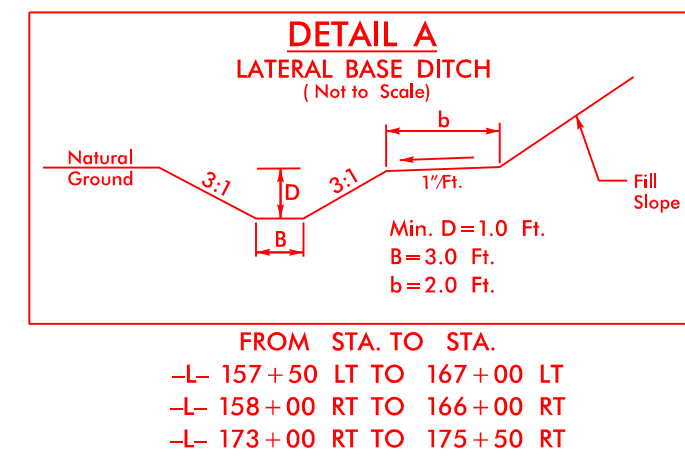
PROJECT REFERENCE NO.		SHEET NO.
R-3620		15
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
PRELIMINARY PLANS		DO NOT USE FOR CONSTRUCTION

PERMIT DRAWING
SHEET 27 OF 35

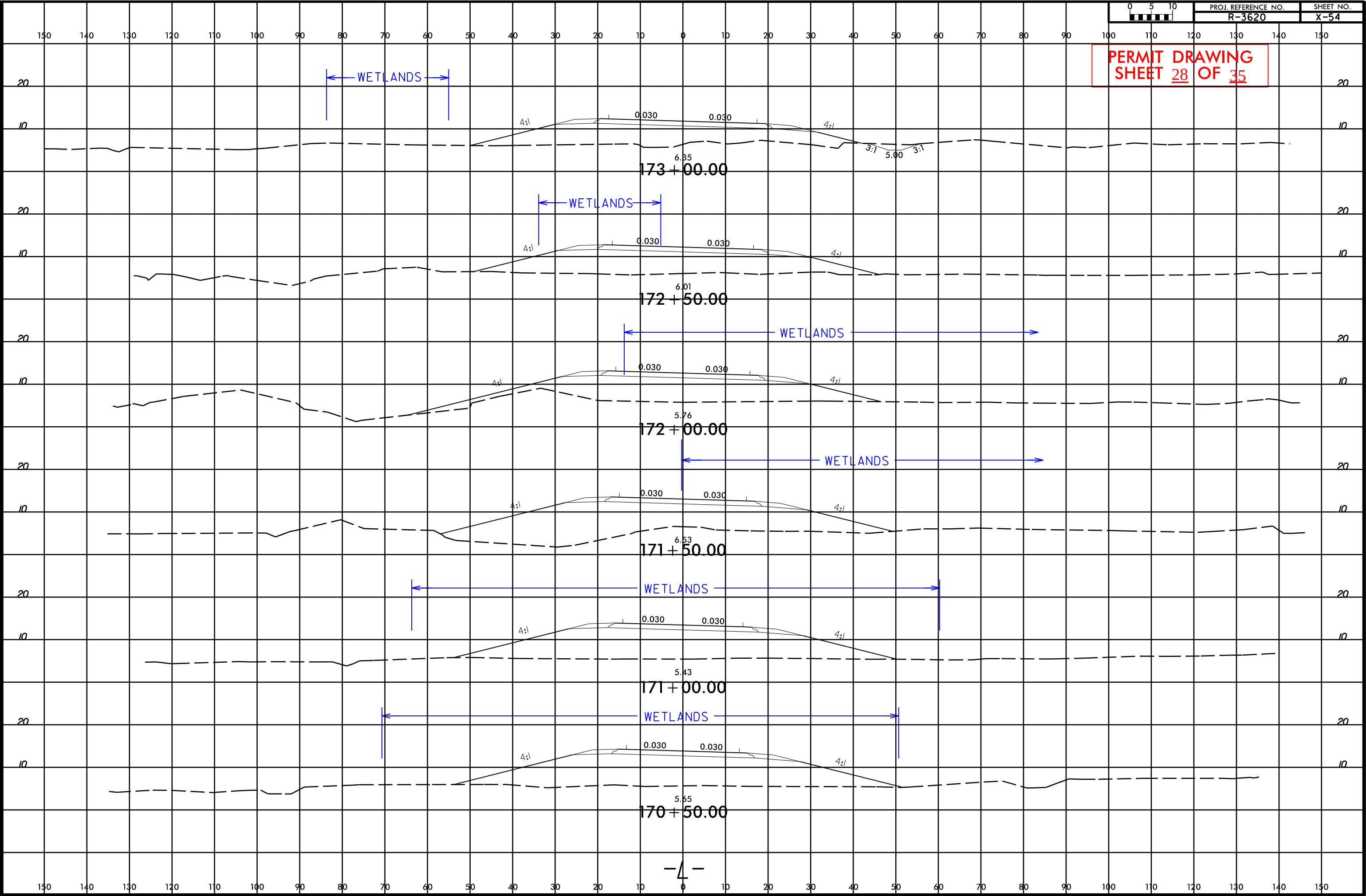


REVISIONS

07/24/2012 R/W REVISION (KEM) - MODIFIED EXISTING R/W ON PARCELS 006,007, AND 008.
Design Revision 1-13-12. Revised ditches right of -YI- according to Detail H. Revised the proposed EOP and lane geometry for the intersection of -L- 164+00.00 to -L- 175+50.00 according to Congestion Management recommendations.

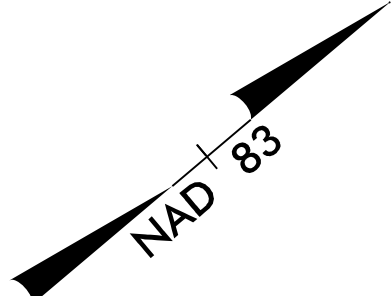
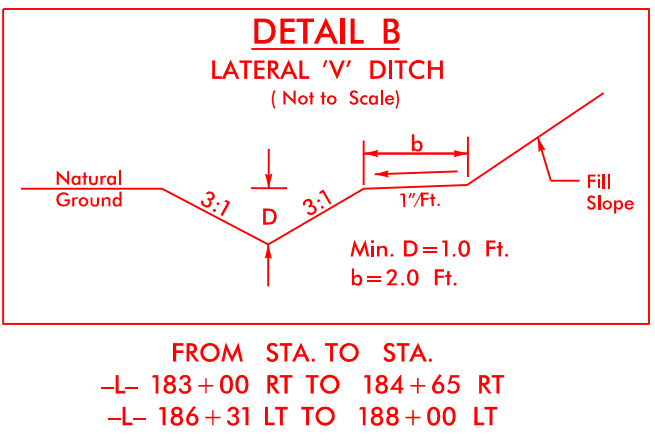
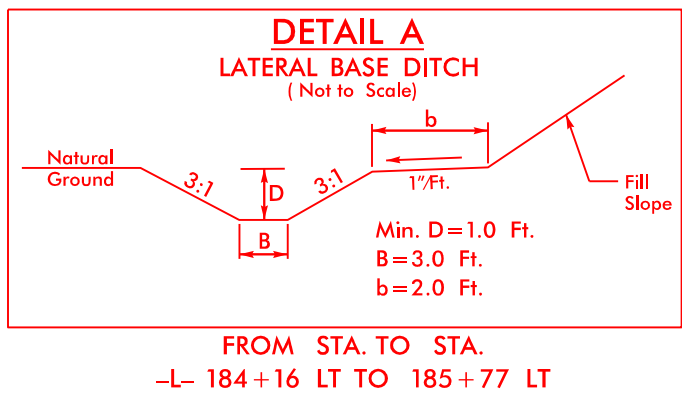


8/23/99



PROJECT REFERENCE NO.	SHEET NO.
R-3620	16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PERMIT DRAWING
SHEET 29 OF 35

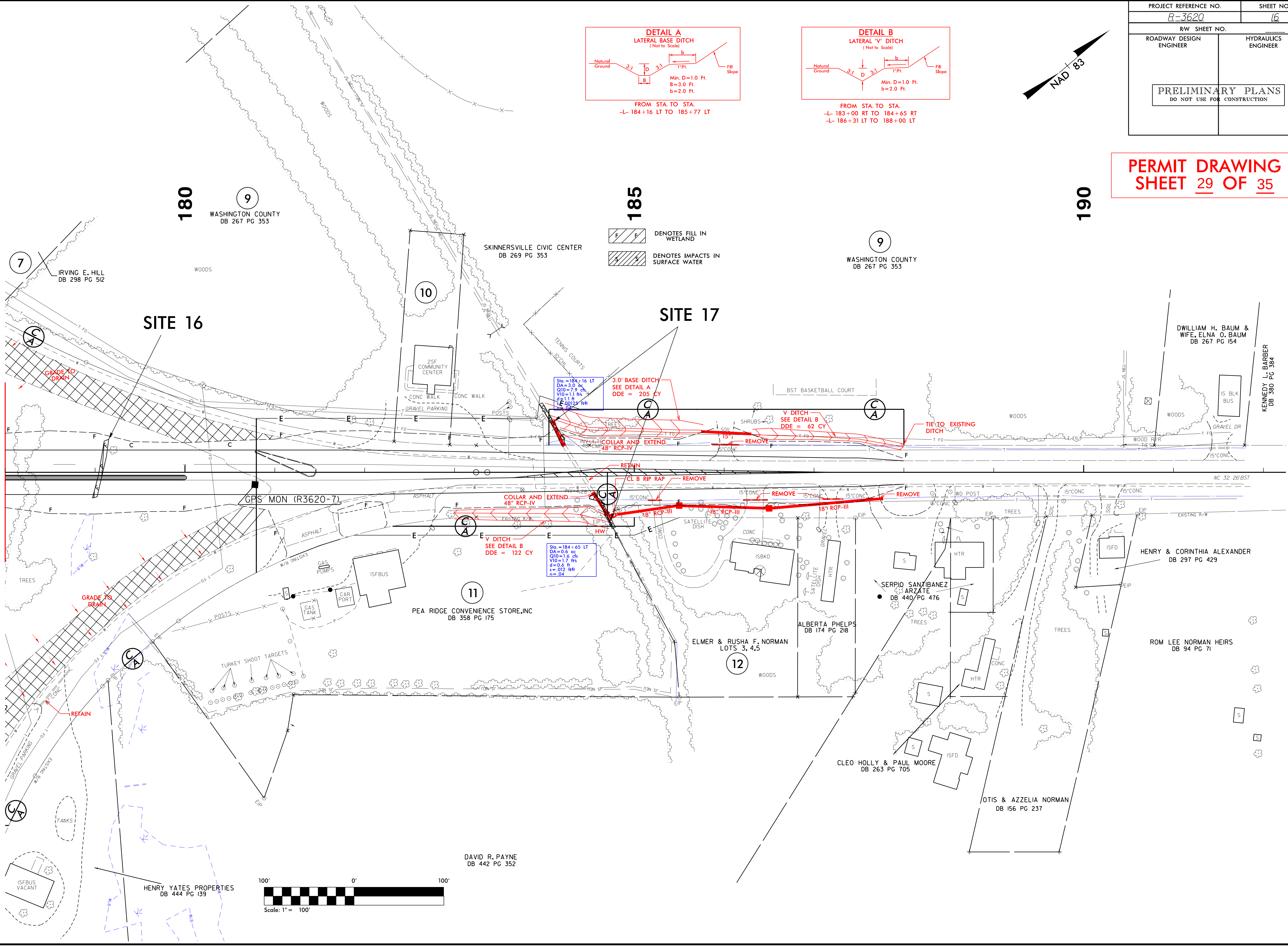


DENOTES FILL IN WETLAND
 DENOTES IMPACTS IN SURFACE WATER

MATCHLINE -L- STA. 178+00.00
SEE SHEET 15

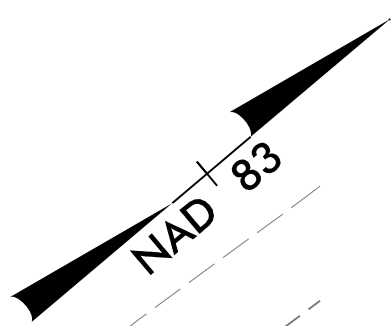
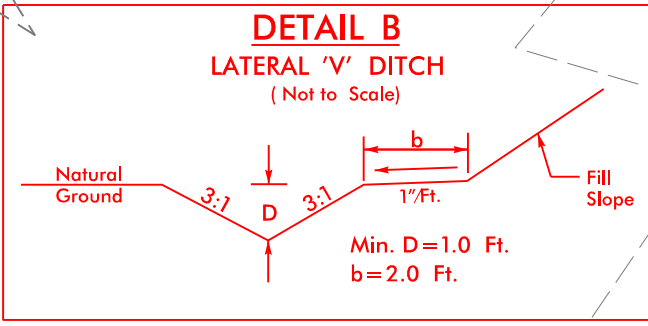
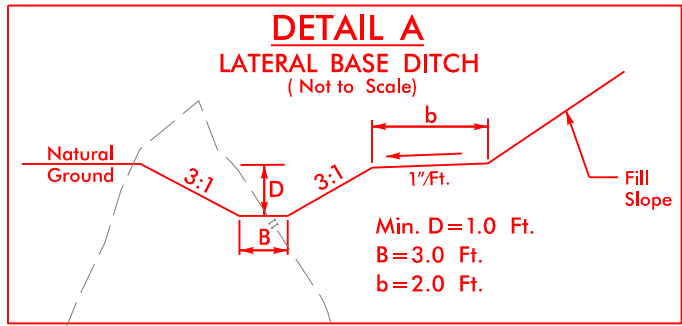
REVISIONS

11/26/2013
R. (Hydraulics) PERMITS Environmental Drawings (PSH) R3620_Hyd_psh_16.dgn



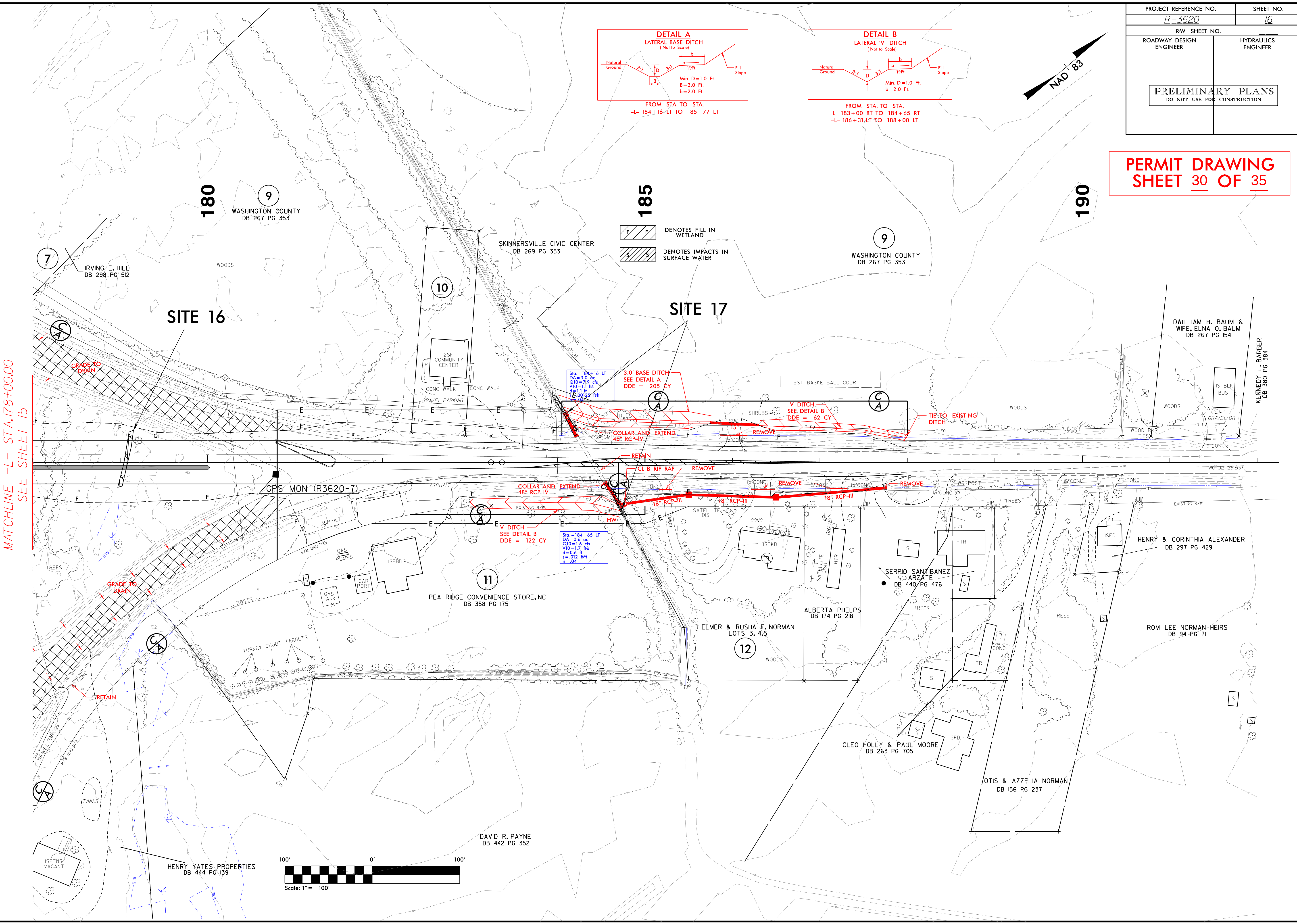
PROJECT REFERENCE NO.	SHEET NO.
R-3620	16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

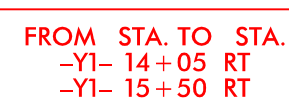
PERMIT DRAWING
SHEET 30 OF 35



MATCHLINE -L- STA. 178+00.00
SEE SHEET 15

REVISIONS



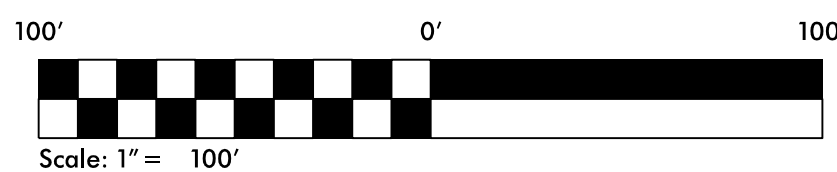


SITE 18

ALBEMARLE BEACH FARMS, INC
DB 442 PG 935

ALBEMARLE BEACH FARMS, INC
DB 442 PG 935

EMARLE BEACH FARMS,INC
DB 442 PG 935

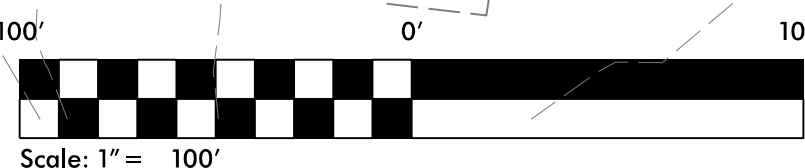


PROJECT /
ED BY

30

REVISIONS

[illegible]11/26/2013
gail



31

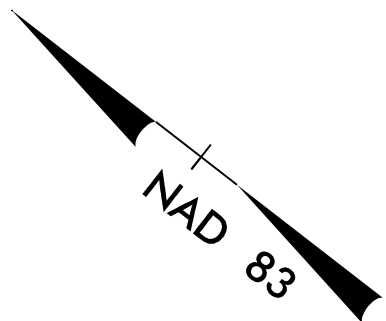
11/26/2013
gail

8/17/99

REVISIONS
07/24/2012 R/W REVISION (KEM) - REVISED DITCH RIGHT OF -YI-, NO R/W REVISION WAS MADE.
Design Revision 7-13-12 Revised ditch right of -YI- according to Detail H.

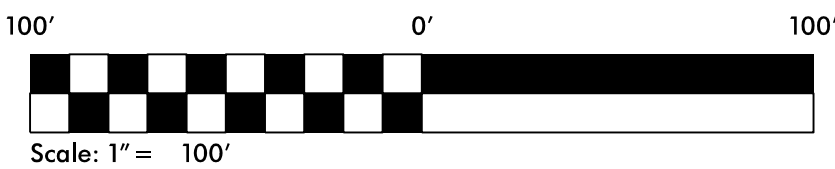
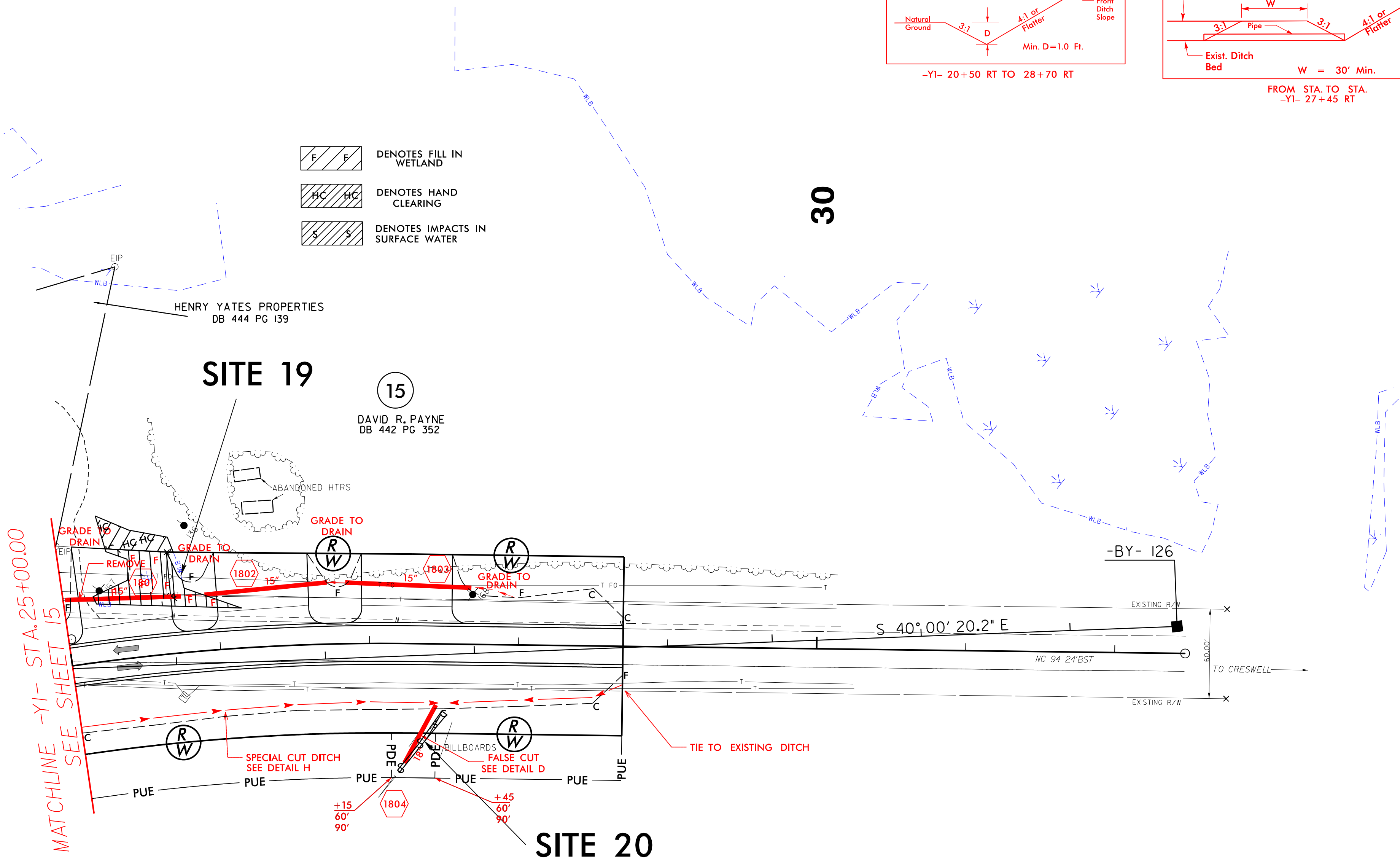
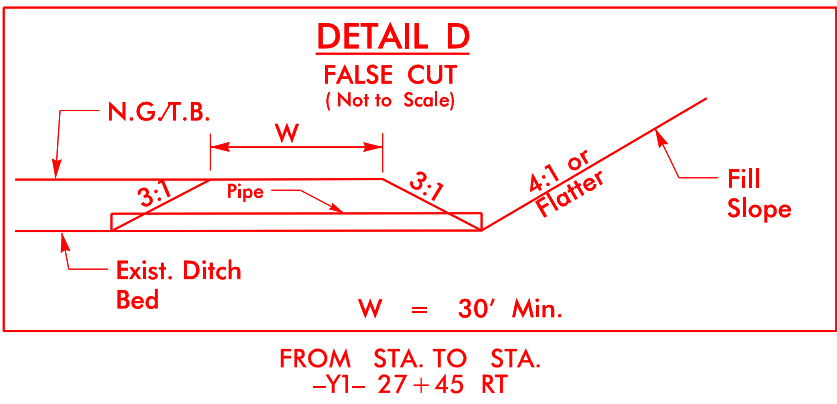
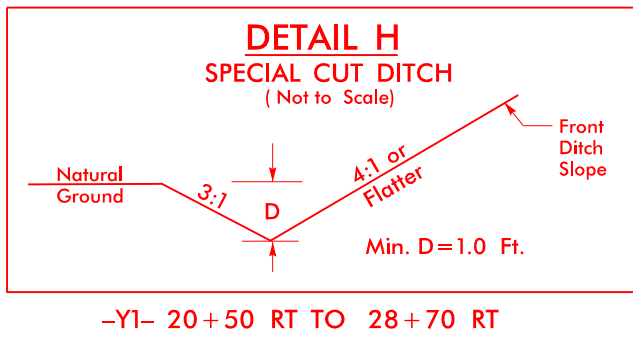
11/26/2013
gcal
R:\Hydraulics\PERMITS_Environmental Drawings\PSH\3620_Hyd_psh_18.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-3620	18
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



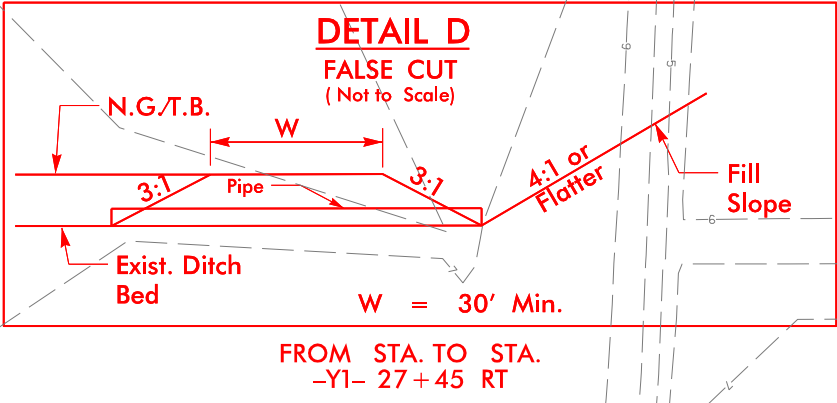
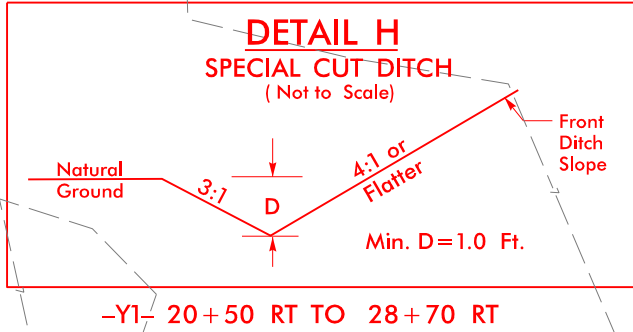
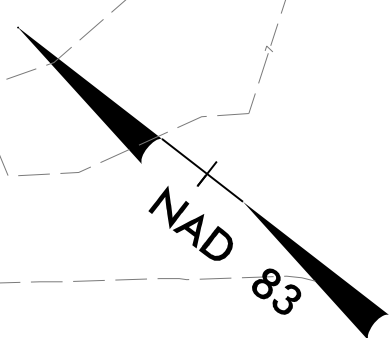
PERMIT DRAWING
SHEET 33 OF 35

- Legend:
- DENOTES FILL IN WETLAND
 - DENOTES HAND CLEARING
 - DENOTES IMPACTS IN SURFACE WATER



PROJECT REFERENCE NO.	SHEET NO.
R-3620	18
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PERMIT DRAWING
SHEET 34 OF 35



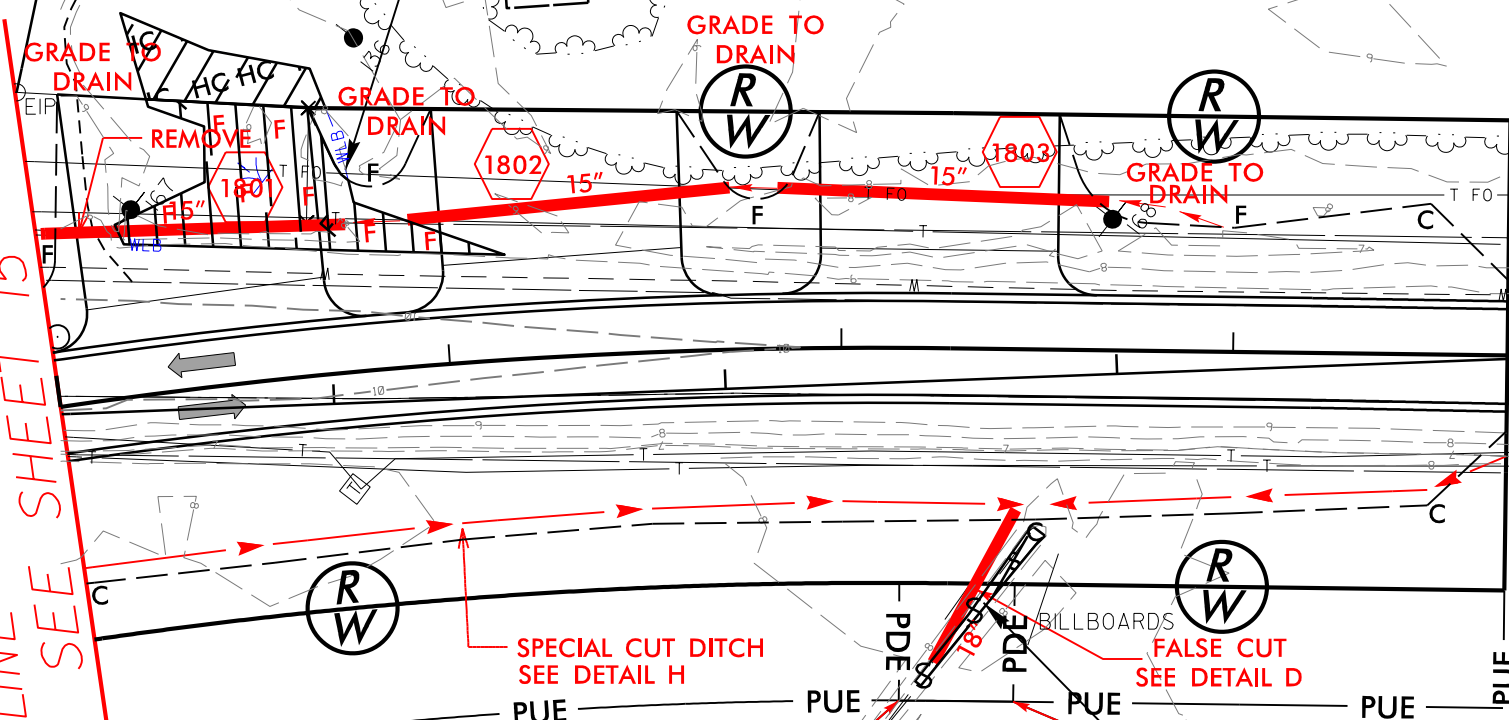
- DENOTES FILL IN WETLAND
- DENOTES HAND CLEARING
- DENOTES IMPACTS IN SURFACE WATER

SITE 19

15

DAVID R. PAYNE
DB 442 PG 352

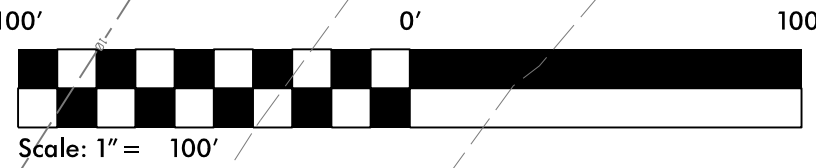
ABANDONED HTRS



SITE 20

6

ALBEMARLE ACRES, LLC
DB 445 PG 437



Scale: 1" = 100'

REVISIONS
07/24/2012 R/W REVISION (KEM) - REVISED DITCH RIGHT OF -Y1-, NO R/W REVISION WAS MADE.
Design Revision 1-13-12 Revised ditch right of -Y1- according to Detail H.

WETLAND PERMIT IMPACT SUMMARY												
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	12+35 / 44+78 LT-L-	FILL	2.36			0.01	0.73					
1	20+22 -L-	54" RCP						0.01		108		
1	20+22 -L-	Bank Stabilization						<0.01		12		
1	19+95 -L-RT	54" RCP							<0.01			
1	24+22 / 24+57 RT-L-	FILL					<0.01					
1	30+15 / 32+90 RT-L-	FILL	0.05				0.09					
1	45+40 -L-	54" RCP						0.01				
2	47+60 -L-	30" RCP						0.03				
3	51+05 LT -L-	24" RCP						<0.01				
4	89+25 -L-	42" RCP						0.01				
5	90+10 / 109+22-L-	FILL	3.20				0.79					
6	110+18 -L-	48" RCP						0.01				
7	111+39 LT -L-	FILL	<0.01				0.01					
8	112+80 -L-	24" RCP						0.01				
9	113+25 / 118+90-L-	FILL	1.02				0.26					
10	127+75 -L-	42" RCP						0.01				
11	134+35 -L-	FILL	0.05		0.01	0.02	0.01					
12	137+70 RT -L-	FILL	0.09				0.04					
13	141+10 TOTAL TAKE	FILL	0.07									
14	146+00 RT	EXCAVATION			<0.01		<0.01					
14	147+73 / 157+50	FILL	1.80			0.01	0.44					
14	148+73 -L-	Box Culvert						0.01		82		
14	148+73 LT/RT-L-	Bank Stabilization						0.01	0.01	32	44	
15	169+92 -L-	48" RCP						0.02				
15	170+30 / 172+90-L-	FILL	0.39				0.06	0.11				
16	179+05-L-	FILL	<0.01									
17	184+35-L-	Extend 48" RCP						0.01				
17	9+93-Y2-	48" RCP						<0.01				
18	13+00 RT -Y1-	FILL						0.02				
19	25+60 LT-Y1-	FILL	0.04				0.02					
20	27+50 RT-Y1-	18" Pipe						<0.01				
TOTALS:			9.07		0.01	0.04	2.45	0.27	0.01	234	44	0

JS Non-Mitigable:

Site 1-Sta 19+95RT, Site 1-Sta 45+40, Site 2-Sta 47+60, Site 4-89+25, Site 6-Sta 110+18, Site 8-Sta 112+80, Site 10-Sta 127+75, Site 15-Sta 169+92, Site 17-Sta 184+35/9+93, Site 18-Sta 13+00; Site 20-Sta 27+50

Site 15 - Fill in Surface Water Pond=0.11ac
 Sites 5,9, and 14 - Equalizer pipes placed @ natural ground and not to be buried.
 Site 13- Total take
 Site 19- Total take

Note: 0.48 ac of Temp Fill in Wetland In the Hand Clearing areas for erosion control.

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

COUNTY

WBS - 34548.1.1 (R-3620)

ATN Revised 3/31/05

SHEET 35 of 35 #####