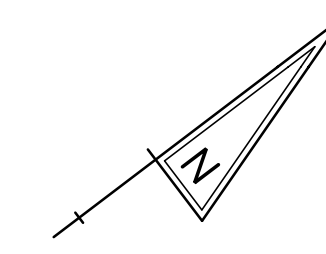
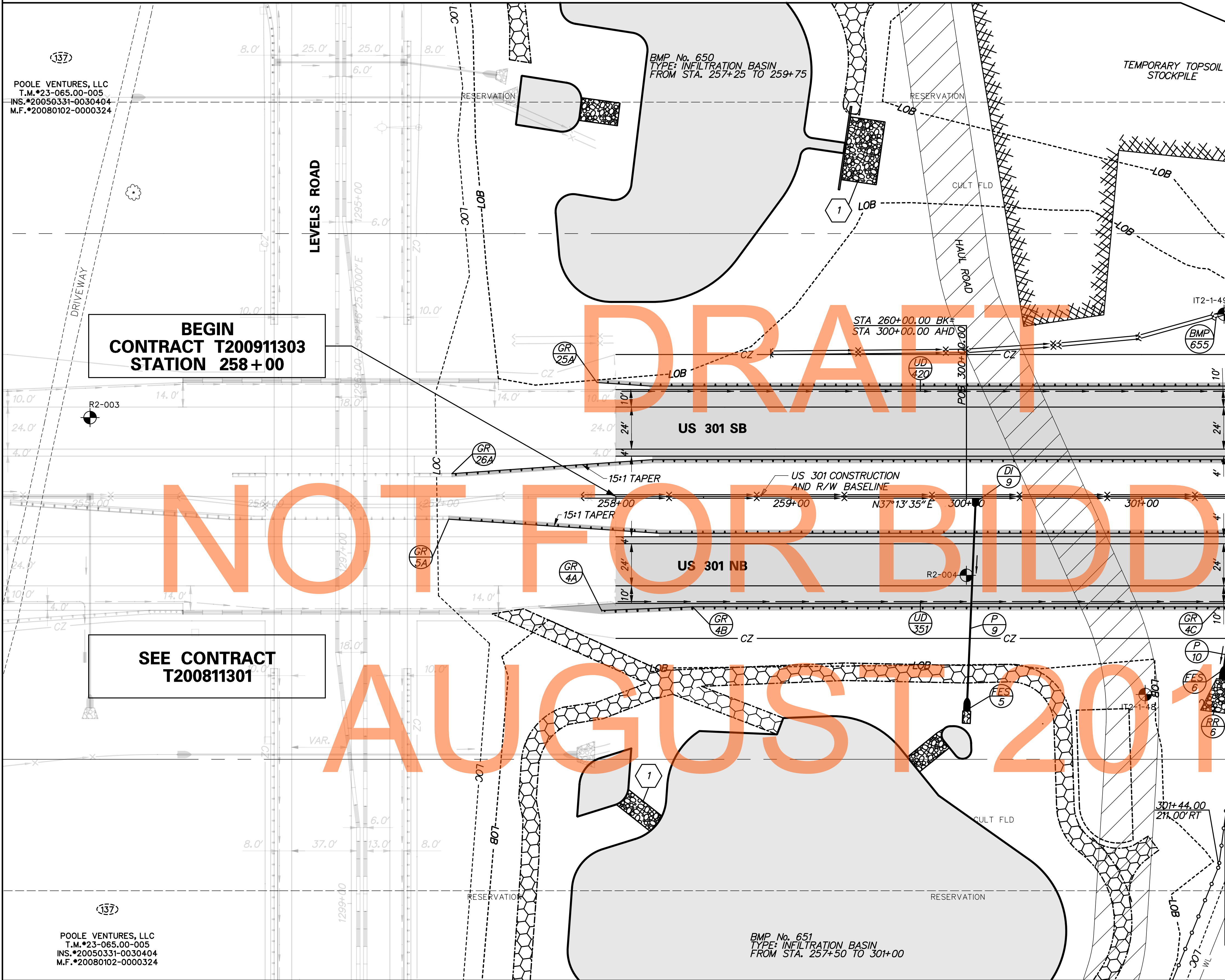


MATCHLINE SEE SHEET CP-04



DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
9	18" RCP	IV	113.0'	0.0358	51.25	47.22
10	18" RCP	IV	36.0'	0.0234	44.98	44.14

BIOFILTRATION SWALE SCHEDULE			
NO.	START STA. / OFFSET	END STA. / OFFSET	LENGTH
655	301+39 -105'	302+44 -105'	105.00

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
9	300+05.2	3.3'	34" X 18"	SINGLE 2	54.71	51.25

NOTES:
 1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASINS (TYP)

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
5	18" RCP	0.0358	NO
6	18" RCP	0.0234	NO

RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
6	R-4	32

MATCHLINE STA 301+50 SEE SHEET CP-02

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
4A	END TREATMENT ATT, TYPE 1	257+93.8	A	50.00'
4B	GALVANIZED SBGR, TYPE 1	258+43.8	63.00'	300.00'
4C	GR TO BARRIER CONN, APPR TYPE 1	301+43.8	63.00'	19.75'
5A	GALVANIZED SBGR, TYPE 1	257+06.4	*	475.00'
25A	GALVANIZED SBGR, TYPE 1	257+89.2	*	462.50'
26A	GALVANIZED SBGR, TYPE 1	257+06.4	*	525.00'

A = OFFSET ATTENUATOR PER CONSTRUCTION DETAILS

LENGTHS FOR BARRIER CONNECTIONS ARE MEASURED FROM THE END OF BARRIER WALL FOR LAYOUT PURPOSES AND ARE PAID FOR AS AN (EACH) ITEM.

* MATCH SECTION 3 PROPOSED GUARDRAIL

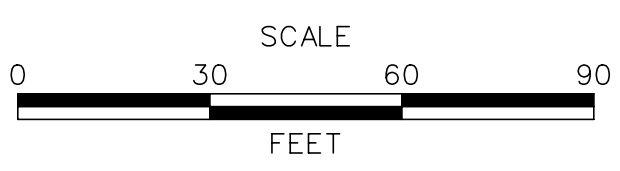
BEGIN
CONTRACT T200911303
STATION 258+00

SEE CONTRACT
T200811301

MATCHLINE SEE SHEET CP-06



ADDENDUMS / REVISIONS



US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.	CONSTRUCTION PLAN
T200911303	DESIGNED BY: JAM	
COUNTY	CHECKED BY: SF	
NEW CASTLE		

CP-01
SHEET NO.
68
TOTAL SHTS.
1256

P:\CADD\2009\11\CP\PLANS\2A\CP\DET\CP-01.DGN

NOTES:

- 1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASIN (TYP)
- 2 REFER TO STRUCTURE PLANS FOR RIPRAP AT ABUTMENTS AND PIERS (TYP)
- 3 NO GRUBBING UNDER AND BETWEEN BRIDGES 1-480S, 1-480N, 1-477N, 1-477S, AND ADJACENT TO BRIDGE 1-479.

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
1	25	49.00
9	41	47.00
10	40	46.50
11	40	46.50

BIOFILTRATION SWALE SCHEDULE			
NO.	START STA. / OFFSET	END STA. / OFFSET	LENGTH
661	302+55 -105'	303+57 -89'	105.00

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
7	18" RCP	0.0450	NO
8	18" RCP	0.0184	NO

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
5	18" RCP	IV	59.0'	0.0046	46.05	45.78
6	18" RCP	IV	38.5'	0.0048	46.91	46.72
11	18" RCP	IV	20.0'	0.0111	49.72	49.50
13	18" RCP	IV	38.0'	0.0124	51.44	50.97
14	18" RCP	IV	32.5'	0.0450	49.95	48.50
15	18" RCP	IV	44.0'	0.0184	46.92	46.11
16	18" RCP	IV	38.0'	0.0100	48.66	48.28
17	18" RCP	IV	39.0'	0.0050	48.51	48.31
18	18" RCP	IV	17.0'	0.0101	50.09	49.92
19	18" RCP	IV	163.0'	0.0024	46.50	46.10
251	18" RCP	IV	38.0'	0.0205	49.30	48.53
252	18" RCP	IV	20.5'	0.0114	50.77	50.54
255	18" RCP	IV	16.5'	0.0140	48.11	47.88
256	18" RCP	IV	194.0'	0.0030	47.68	47.10
257	14" x 23" HERCP	IV	55.5'	0.0036	46.90	46.70

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
5	44+54.3	36.4'	72" X 48"	DOUBLE 2	50.18	46.05
6	44+65.1	-5.9'	34" X 24"	SINGLE 2	51.49	46.91
10	301+51.7	62.9'	34" X 24"	SINGLE 2	55.82	44.98
11	301+75.5	21.1'	48" X 30"	SINGLE 2	56.38	49.72
12	301+75.5	3.3'	34" X 18"	SINGLE 2	53.69	50.09
13	302+20.5	-21.1'	34" X 24"	SINGLE 2	56.07	51.44
14	302+44.7	-62.9'	48" X 30"	SINGLE 2	55.19	49.95
15	305+46.3	62.9'	72" X 24"	DOUBLE 2	53.10	46.92
16	305+46.3	21.1'	34" X 24"	SINGLE 2	53.24	48.66
17	305+66.8	-21.1'	34" X 24"	SINGLE 2	53.72	48.11
18	305+66.8	-63.9'	72" X 24"	DOUBLE 2	52.95	48.51
20*	307+63.1	-3.3'	34" X 18"	SINGLE 2	49.77	46.90
252	305+66.8	-3.3'	48" X 30"	SINGLE 2	50.97	47.68
272	301+51.7	21.1'	48" X 30"	SINGLE 2	56.54	49.30
273	302+20.5	-62.9'	48" X 30"	SINGLE 2	55.35	50.77

* INLET ROTATED 90 DEGREES

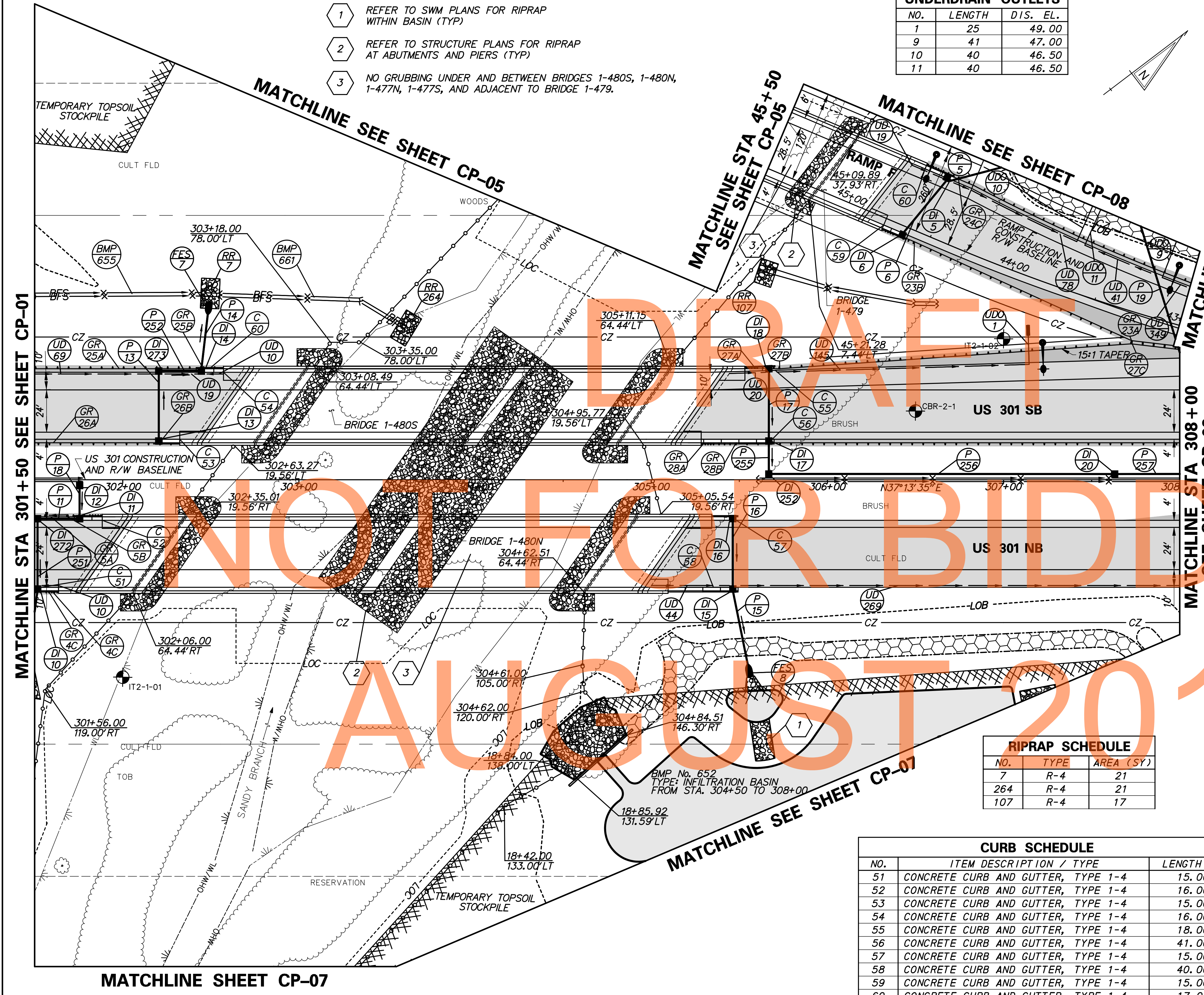
GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
5B	GR TO BARRIER CONN, APPR TYPE 1	301+68.6	21.00'	19.75'
23A	GALVANIZED SBGR, TYPE 1	43+22.9	**	137.50'
23B	GR TO BARRIER CONN, APPR TYPE 1	44+57.3	-6.00'	19.75'
24C	GR TO BARRIER CONN, APPR TYPE 1	44+51.8	36.50'	19.75'
25B	GR TO BARRIER CONN, EXIT TYPE 31	302+45.7	-63.00'	11.50'
26B	GR TO BARRIER CONN, EXIT TYPE 31	302+20.9	-21.00'	11.50'
27A	GR TO BARRIER CONN, APPR TYPE 1	305+53.2	-63.00'	19.75'
27B	GALVANIZED SBGR, TYPE 1	305+72.9	-63.00'	200.00'
27C	END TREATMENT ATT, TYPE 3	307+72.4	A	50.00'
28A	GR TO BARRIER CONN, APPR TYPE 1	305+28.4	-21.00'	19.75'
28B	GALVANIZED SBGR, TYPE 1	305+48.1	-21.00'	325.00'

LENGTHS FOR BARRIER CONNECTIONS ARE MEASURED FROM THE END OF BARRIER WALL FOR LAYOUT PURPOSES AND ARE PAID FOR AS AN (EACH) ITEM.

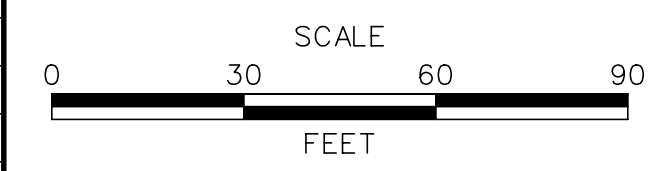
** MEET 27C IMPACT ATTENUATOR

RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
7	R-4	21
264	R-4	21
107	R-4	17

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
51	CONCRETE CURB AND GUTTER, TYPE 1-4	15.00
52	CONCRETE CURB AND GUTTER, TYPE 1-4	16.00
53	CONCRETE CURB AND GUTTER, TYPE 1-4	15.00
54	CONCRETE CURB AND GUTTER, TYPE 1-4	16.00
55	CONCRETE CURB AND GUTTER, TYPE 1-4	18.00
56	CONCRETE CURB AND GUTTER, TYPE 1-4	41.00
57	CONCRETE CURB AND GUTTER, TYPE 1-4	15.00
58	CONCRETE CURB AND GUTTER, TYPE 1-4	40.00
59	CONCRETE CURB AND GUTTER, TYPE 1-4	15.00
60	CONCRETE CURB AND GUTTER, TYPE 1-4	17.00



ADDENDUMS / REVISIONS	



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-02
SHEET NO.
69
TOTAL SHTS.
1256

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GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
3A	END TREATMENT ATT, TYPE 1	24+55.6	A	50.00'
3B	GALVANIZED SBGR, TYPE 1	25+08.9	23.92'	150.00'
3C	GR TO BARRIER CONN, APPR TYPE 1	26+63.2	23.82'	19.75'
6A	END TREATMENT ATT, TYPE 1	308+27.8	A	50.00'
6B	GALVANIZED SBGR, TYPE 1	308+77.8	21.08'	325.00'
6C	GR TO BARRIER CONN, APPR TYPE 1	312+02.8	21.08'	19.75'
24A	END TREATMENT ATT, TYPE 1	42+31.8	A	50.00'
24B	GALVANIZED SBGR, TYPE 1	42+81.8	24.02'	162.50'
28C	END TREATMENT ATT, TYPE 1	308+73.1	A	50.00'
29A	END ANCHORAGE TYPE 31	40+45.1	A	12.50'
29B	GALVANIZED SBGR, TYPE 1	40+32.6	23.92'	75.00'
29C	GR TO BARRIER CONN, EXIT TYPE 31	311+39.2	-70.92'	11.50'
30A	GR TO BARRIER CONN, APPR TYPE 1	313+83.4	-70.92'	19.75'
30B	GALVANIZED SBGR, TYPE 1	314.03.2	-70.92'	300.00'
31A	GR TO BARRIER CONN, APPR TYPE 1	314.22.5	-21.08'	19.75'
31B	GALVANIZED SBGR, TYPE 1	314+42.2	-21.08'	437.50'

A = OFFSET ATTENUATOR PER CONSTRUCTION DETAILS
 LENGTHS FOR BARRIER CONNECTIONS ARE MEASURED FROM THE END OF BARRIER WALL FOR LAYOUT PURPOSES AND ARE PAID FOR AS AN (EACH) ITEM.

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
4	19" x 30" HERCP	IV	171.5'	0.0024	45.15	44.74
23	18" RCP	IV	12.5'	0.0069	47.73	47.64
24	18" RCP	IV	46.0'	0.0185	48.78	47.94
25	18" RCP	IV	47.0'	0.0047	49.98	49.76
26	18" RCP	IV	32.0'	0.0049	49.91	49.76
27	18" RCP	IV	40.0'	0.0370	46.78	45.30
28	18" RCP	IV	46.0'	0.0046	50.08	49.87
253	18" RCP	IV	9.5'	0.0039	49.56	49.52
258	14" x 23" HERCP	IV	55.0'	0.0037	46.90	46.70
259	18" RCP	IV	32.0'	0.0105	49.99	49.66
260	18" RCP	IV	31.5'	0.0050	49.67	49.51

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
65	CONCRETE CURB AND GUTTER, TYPE 1-4	21.00
66	CONCRETE CURB AND GUTTER, TYPE 1-4	24.00
67	CONCRETE CURB AND GUTTER, TYPE 1-4	21.00
68	CONCRETE CURB AND GUTTER, TYPE 1-4	24.00
69	CONCRETE CURB AND GUTTER, TYPE 1-4	22.00
70	CONCRETE CURB AND GUTTER, TYPE 1-4	24.00

UNDERDRAIN OUTLETS

NO.	LENGTH	DIS. EL.
2	105	46.00
3	109	46.00
6	29	47.68
7	29	45.35

RIPRAP SCHEDULE

NO.	TYPE	AREA (SY)
14	R-4	21
15	R-4	21

FLARED END SECTION SCHEDULE

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
14	18" RCP	0.0069	NO
15	18" RCP	0.0039	NO
16	18" RCP	0.0370	NO

DRAINAGE INLET SCHEDULE

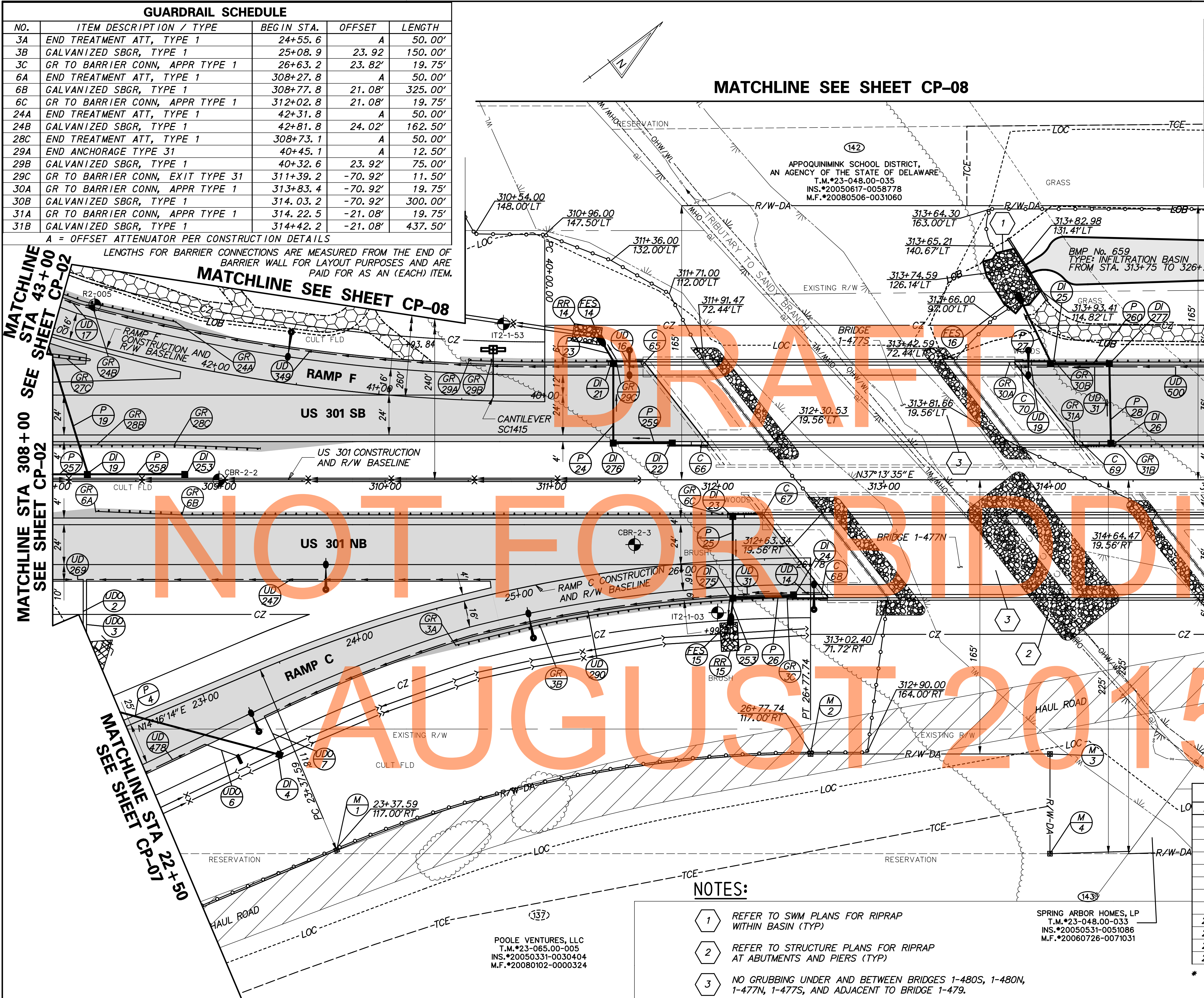
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
4*	23+28.3	51.8'	48" X 30"	SINGLE 2	48.02	45.15
19	308+20.9	-3.3'	48" X 48"	SINGLE 2	49.68	46.50
21	311+37.3	-70.9'	72" X 24"	DOUBLE 2	53.25	47.73
22	311+72.8	-21.1'	48" X 30"	SINGLE 2	54.47	49.99
23	312+09.2	21.1'	34" X 24"	SINGLE 2	54.73	49.98
24	26+67.2	23.9'	72" X 48"	DOUBLE 2	53.73	49.91
25	314+00.3	-70.9'	48" X 30"	SINGLE 2	55.31	46.78
26	314+36.7	-21.1'	34" X 24"	SINGLE 2	56.37	50.08
253	308+79.5	-3.3'	48" X 30"	SINGLE 2	49.86	46.90
275	26+29.7	23.9'	48" X 30"	SINGLE 2	53.19	49.56
276	311+37.3	-21.1'	48" X 30"	SINGLE 2	54.21	48.78
277	314+35.8	-70.9'	48" X 30"	SINGLE 2	55.56	49.67

* INLET ROTATED 45 DEGREES

MATCHLINE SEE SHEET CP-08

MATCHLINE STA 308+00 SEE SHEET CP-02

MATCHLINE STA 315+00 SEE SHEET CP-09



NOTES:

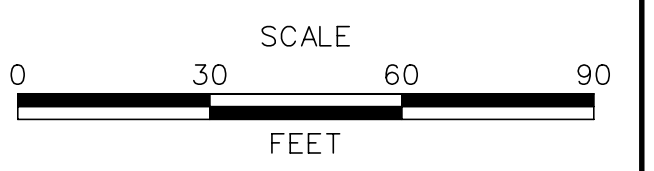
- 1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASIN (TYP)
- 2 REFER TO STRUCTURE PLANS FOR RIPRAP AT ABUTMENTS AND PIERS (TYP)
- 3 NO GRUBBING UNDER AND BETWEEN BRIDGES 1-480S, 1-480N, 1-477N, 1-477S, AND ADJACENT TO BRIDGE 1-479.

POOLE VENTURES, LLC
 T.M.*23-065.00-005
 INS.*20050331-0030404
 M.F.*20080102-0000324

SPRING ARBOR HOMES, LP
 T.M.*23-048.00-033
 INS.*20050531-0051086
 M.F.*20060726-0071031



ADDENDUMS / REVISIONS



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

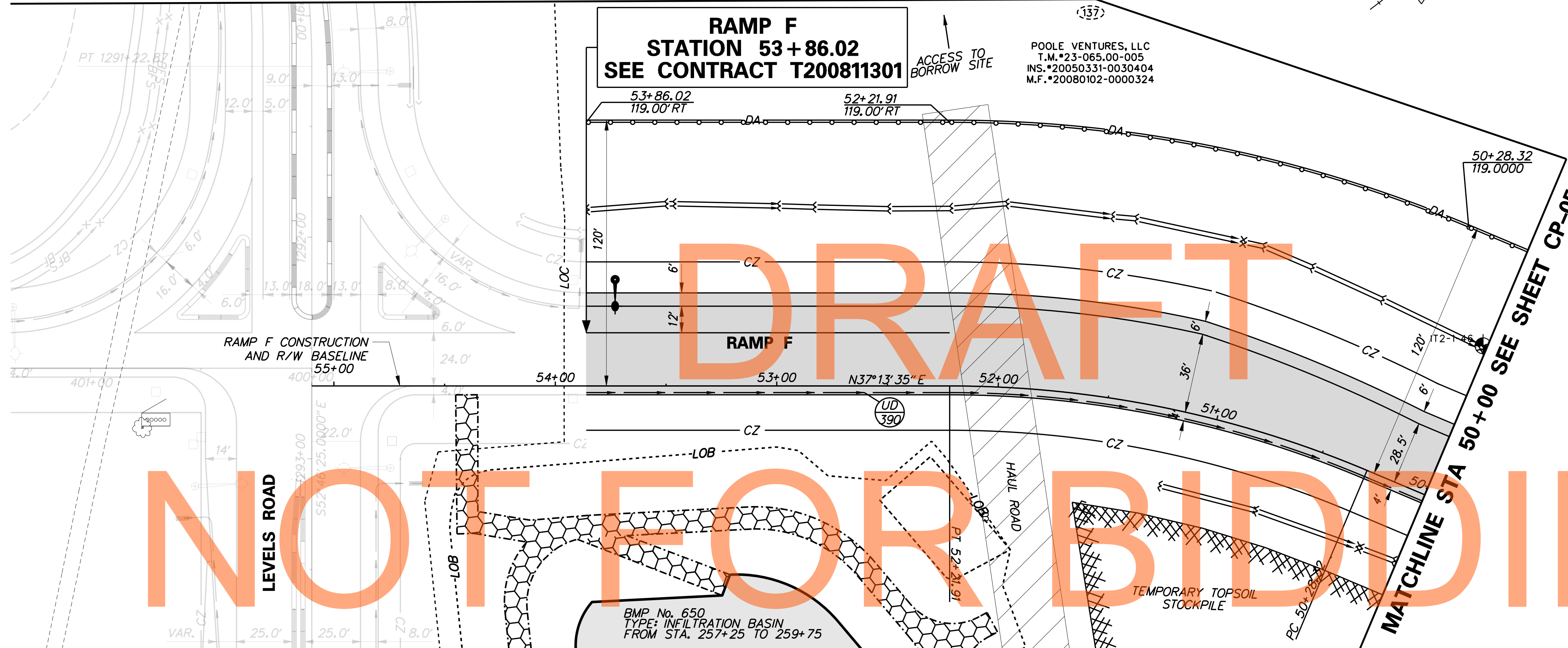
CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	AM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-03
SHEET NO.
70
TOTAL SHTS.
1256

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MATCHLINE SEE WETLAND MITIGATION PLANS - SHEETS 802 TO 826

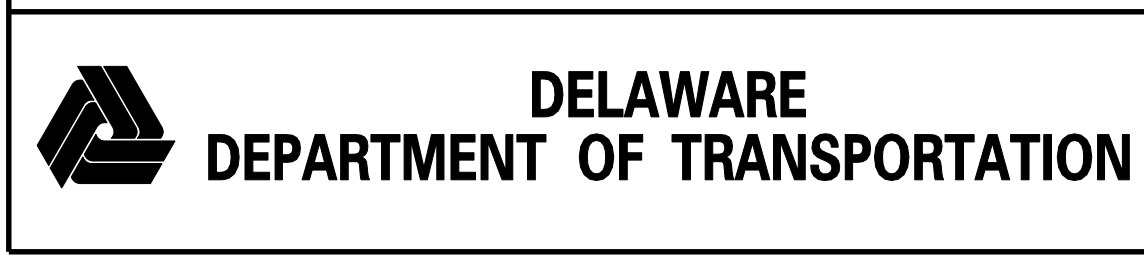


MATCHLINE SHEET CP-01

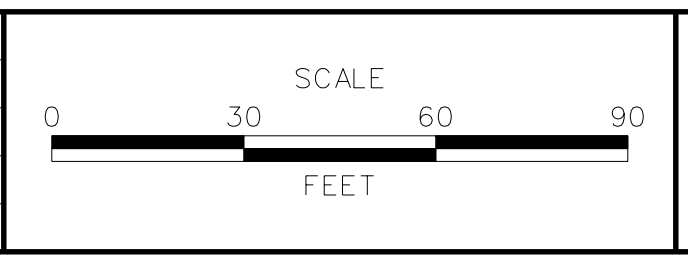
DRAFT
NOT FOR BIDDING

AUGUST 2015

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ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-04
SHEET NO.
71
TOTAL SHTS.
1256

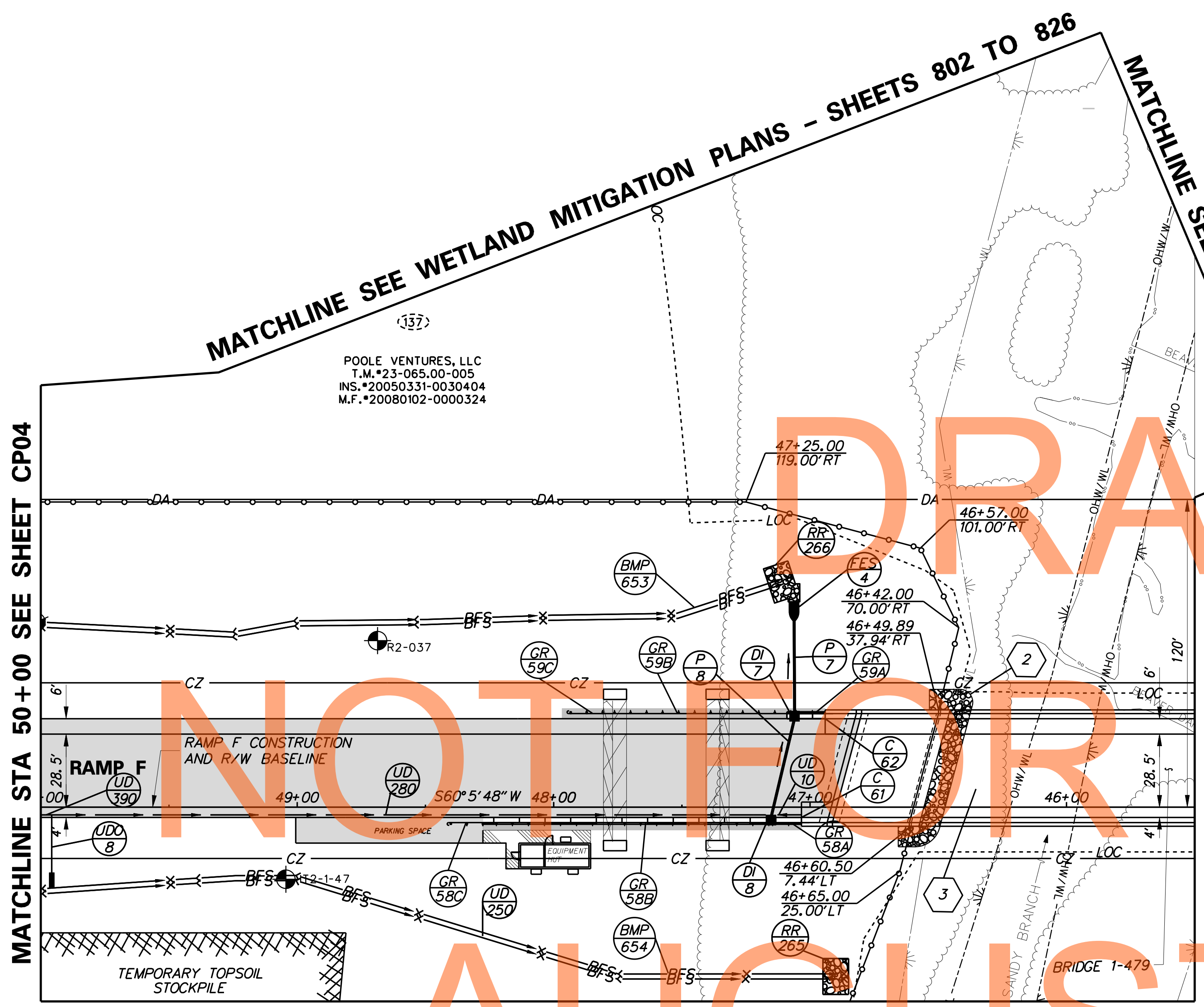
MATCHLINE SEE WETLAND MITIGATION PLANS - SHEETS 802 TO 826

MATCHLINE SEE SHEET CP-08

POOLE VENTURES, LLC
T.M.#23-065.00-005
INS.#20050331-0030404
M.F.#20080102-0000324

MATCHLINE STA 50+00 SEE SHEET CP04

MATCHLINE STA 45+50 SEE SHEET CP-02



MATCHLINE SEE SHEET CP-02

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
58A	GR TO BARRIER CONN, EXIT TYPE 31	47+03.4	-6.00'	11.5'
58B	GALVANIZED SBGR, TYPE 1	47+14.9	-6.00'	112.5'
58C	END ANCHORAGE TYPE 31	48+27.4	-6.00'	12.5'
59A	GR TO BARRIER CONN, EXIT TYPE 31	46+94.1	+36.50'	11.5'
59B	GALVANIZED SBGR, TYPE 1	47+05.6	+36.50'	75.0'
59C	END ANCHORAGE TYPE 31	47+80.6	+36.50'	12.5'

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
61	CONCRETE CURB AND GUTTER, TYPE 1-4	125.00
62	CONCRETE CURB AND GUTTER, TYPE 1-4	15.00

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
4	18" RCP	0.0153	NO

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
7	18" RCP	IV	38.0'	0.0153	49.67	49.09
8	18" RCP	IV	40.0'	0.0100	51.13	50.73

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
7	47+06.0	36.4'	34" X 24"	SINGLE 2	55.96	49.67
8	47+15.3	-5.9'	34" X 24"	SINGLE 2	55.66	51.13

BIOFILTRATION SWALE SCHEDULE				
NO.	START STA. / OFFSET	END STA. / OFFSET	LENGTH	
653	48+54 72'	47+16 86'	140.00'	
654	49+39 -28'	46+95 -66'	250.00'	

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
8	31	58.00

RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
265	R-4	17
266	R-4	18

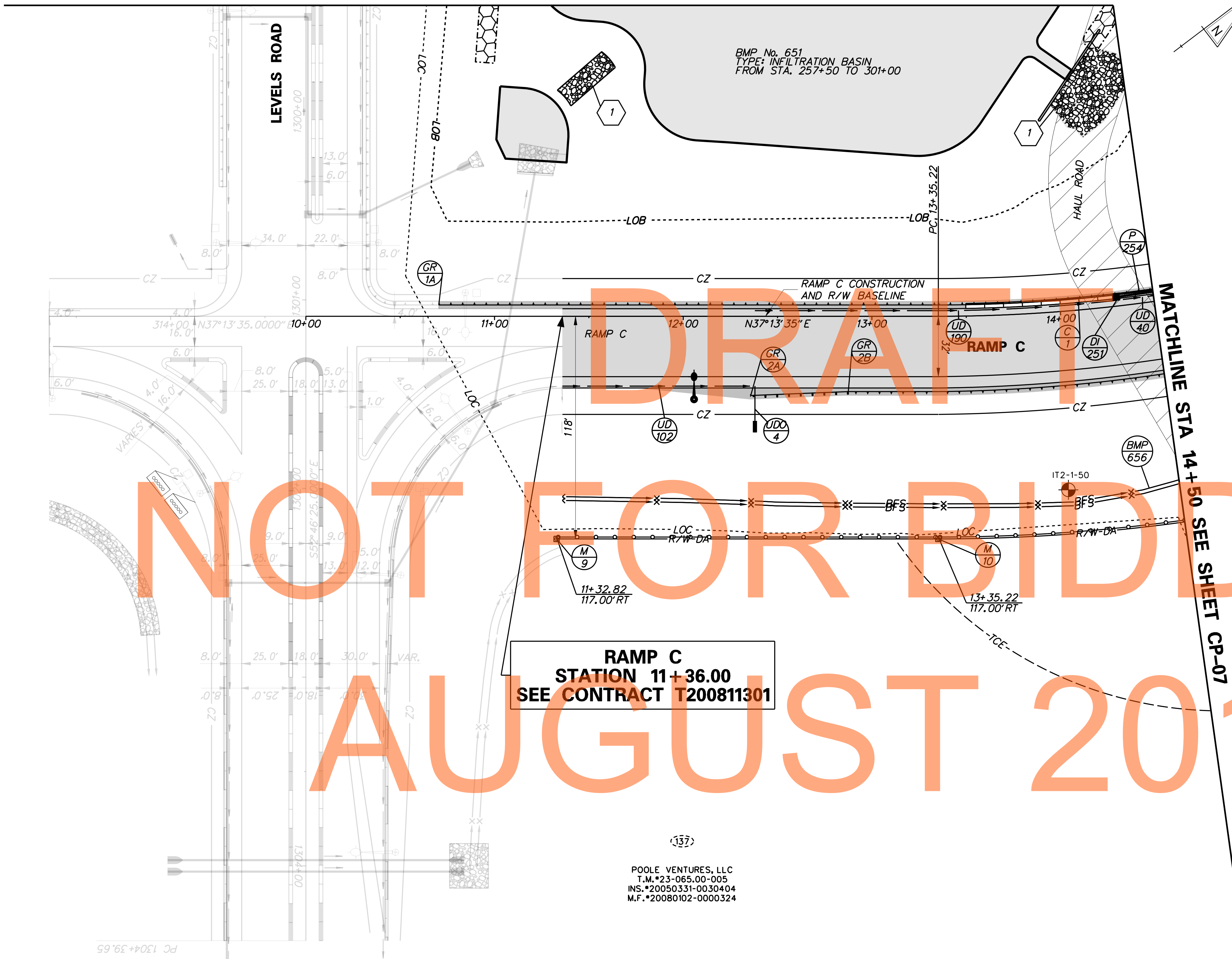
NOTES:

- 2 REFER TO STRUCTURE PLANS FOR RIPRAP AT ABUTMENTS AND PIERS (TYP)
 - 3 NO GRUBBING UNDER AND BETWEEN BRIDGES 1-480S, 1-480N, 1-477N, 1-477S, AND ADJACENT TO BRIDGE 1-479.
- SEE TOLL PLAZA SHEETS 1184-1241 FOR ADDITIONAL INFORMATION.

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<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	<p>ADDENDUMS / REVISIONS</p> <table border="1" style="width: 100%; height: 40px;"> <tr><td> </td><td> </td></tr> </table>			<p>SCALE</p> <p>0 30 60 90</p> <p>FEET</p>	<p>US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD</p>	CONTRACT	BRIDGE NO.	<p>CONSTRUCTION PLAN</p>	SHEET NO.
T200911303	DESIGNED BY: JAM	72							
COUNTY	CHECKED BY: SF	TOTAL SHTS.							
NEW CASTLE		1256							

MATCHLINE SEE SHEET CP-01



DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
254	18" RCP	IV	42.5'	0.0402	55.04	53.34

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
251	14+30.2	-5.9'	48" X 30"	SINGLE 2	60.75	55.04

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
1A	GALVANIZED SBGR, TYPE 1	10+70.5	*	762.50'
2A	END TREATMENT ATT, TYPE 1	12+37.5	A	50.00'
2B	GALVANIZED SBGR, TYPE 1	12+87.5	39.92'	612.50'

A = OFFSET ATTENUATOR PER CONSTRUCTION DETAILS

* MATCH LEVELS ROAD GUARDRAIL.

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	CONCRETE CURB AND GUTTER, TYPE 1-4	100.00

BIOFILTRATION SWALE SCHEDULE				
NO.	START STA. / OFFSET	END STA. / OFFSET	LENGTH	
656	12+88 / 100'	15+16 / 91'	250.00'	

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
4	27	60.00

NOTES:

1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASINS (TYP)

POOLE VENTURES, LLC
 T.M.#23-065,00-005
 INS.#20050331-0030404
 M.F.#20080102-0000324

ADDENDUMS / REVISIONS



US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD

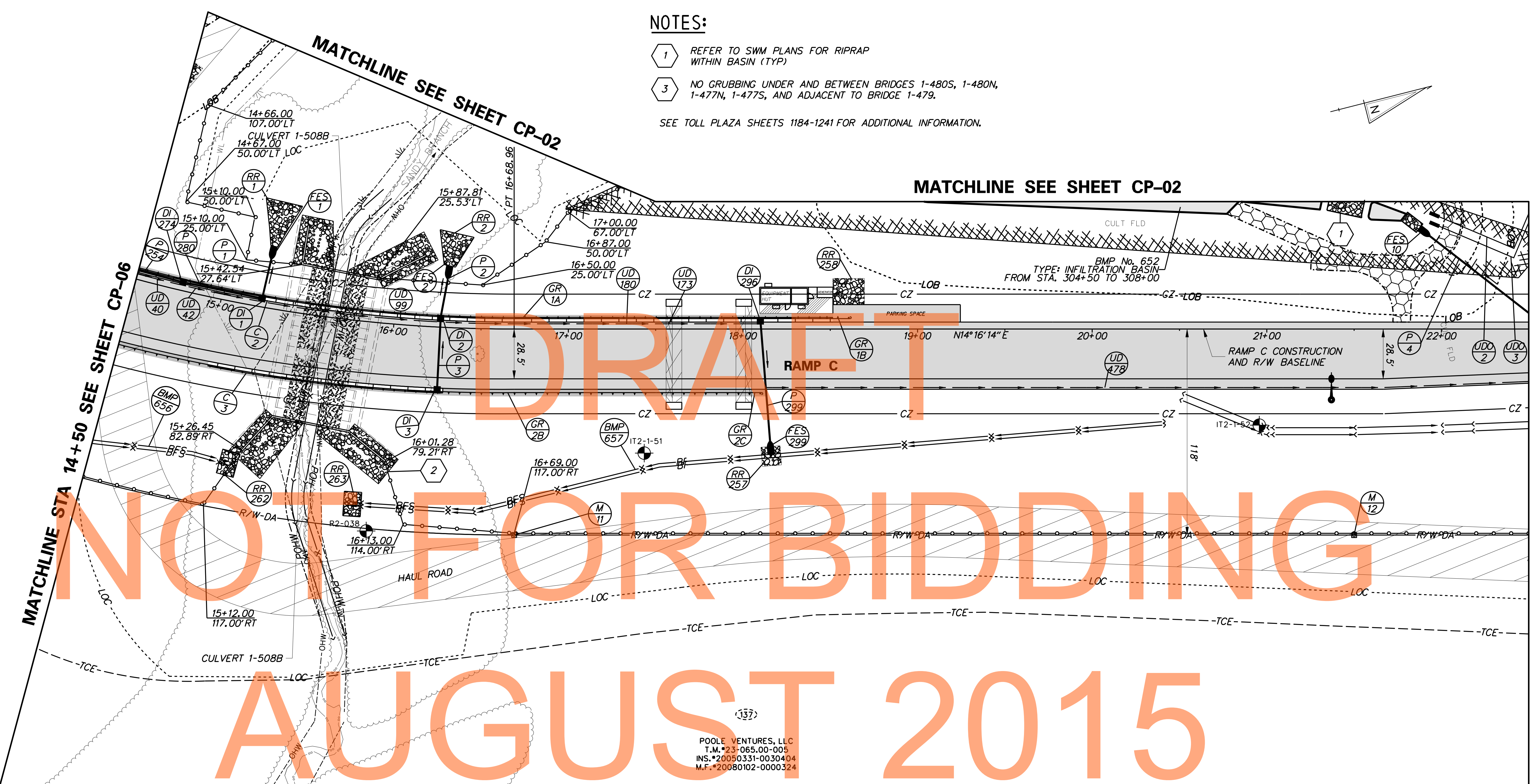
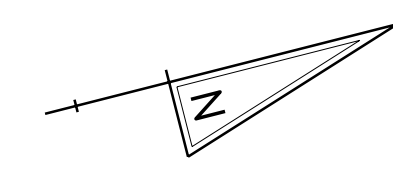
CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-06
SHEET NO.
73
TOTAL SHTS.
1256

NOTES:

- 1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASIN (TYP)
 - 3 NO GRUBBING UNDER AND BETWEEN BRIDGES 1-480S, 1-480N, 1-477N, 1-477S, AND ADJACENT TO BRIDGE 1-479.
- SEE TOLL PLAZA SHEETS 1184-1241 FOR ADDITIONAL INFORMATION.



MATCHLINE STA 14+50 SEE SHEET CP-06

MATCHLINE SEE SHEET CP-02

MATCHLINE STA 22+50 SEE SHEET CP-03

NOT FOR BIDDING

AUGUST 2015

POOLE VENTURES, LLC
T.M.#23-065,00-005
INS.#20080331-0030404
M.F.#20080102-0000324

RIPRAP SCHEDULE

NO.	TYPE	AREA (SY)
1	R-4	41
2	R-4	32
262	R-4	17
263	R-4	17
257	R-4	14
258	R-4	30

BIOFILTRATION SWALE SCHEDULE

NO.	START STA. / OFFSET	END STA. / OFFSET	LENGTH
657	17+68 / 77'	15+91 / 105'	190.00'

FLARED END SECTION SCHEDULE

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
1	18" RCP	0.0405	NO
2	18" RCP	0.0404	NO
10	19" X 30" HERCP	0.0024	NO
299	18" RCP	0.0030	NO

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
1	15+23.2	-5.9'	48" X 30"	SINGLE 2	58.33	47.00
2	16+26.6	-5.9'	34" X 24"	SINGLE 2	55.79	44.46
3	16+26.6	36.9'	34" X 24"	SINGLE 2	57.11	46.09
274	14+76.7	-5.9'	48" X 30"	SINGLE 2	59.48	53.14
296	18+10.0	-5.9'	34" X 24"	SINGLE 2	54.00	48.50

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
1	18" RCP	IV	23.5'	0.0405	47.00	46.05
2	18" RCP	IV	24.0'	0.0404	44.46	43.50
3	18" RCP	IV	39.0'	0.0334	46.09	44.79
280	18" RCP	IV	42.5'	0.0403	53.14	51.44
299	18" RCP	IV	70.0'	0.0030	48.50	48.29

GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
1B	END ANCHORAGE TYPE 31	18+47.9	-6.00'	12.5'
2C	END ANCHORAGE TYPE 31	17+97.2	+36.42'	12.5'

LENGTHS FOR BARRIER CONNECTIONS ARE MEASURED FROM THE END OF BARRIER WALL FOR LAYOUT PURPOSES AND ARE PAID FOR AS AN (EACH) ITEM.

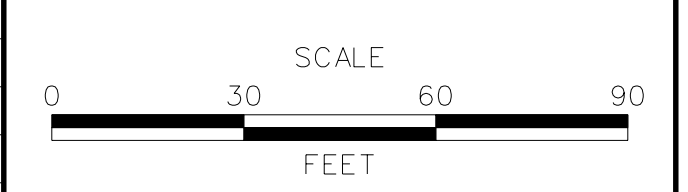
CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
2	CONCRETE CURB AND GUTTER, TYPE 1-4	401.00
3	CONCRETE CURB AND GUTTER, TYPE 1-4	136.00



ADDENDUMS / REVISIONS

NO.	DATE	DESCRIPTION



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

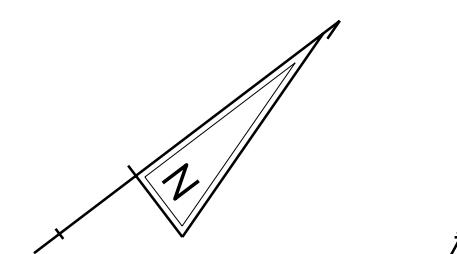
CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-07	SHEET NO.	74
	TOTAL SHTS.	1256

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142
 APPOQUIMINK SCHOOL DISTRICT,
 AN AGENCY OF THE STATE OF DELAWARE
 T.M.#23-048.00-035
 I.N.S.#20050617-0058778
 M.F.#20080506-0031060



DRAFT
 NOT FOR BIDDING
 AUGUST 2015



FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
3	18" RCP	0.0046	NO
9	18" RCP	0.0024	NO
12	18" RCP	0.0045	NO
13	18" RCP	0.0045	NO

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
22	18" RCP	IV	24.0'	0.0045	47.13	47.03

NOTES:
 1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASINS (TYP)

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GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
30C	END TREATMENT ATT, TYPE 1	317+03.2	A	50.00'
31C	END TREATMENT ATT, TYPE 1	318+79.7	A	50.00'
A = OFFSET ATTENUATOR PER CONSTRUCTION DETAILS				

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
27	315+44.0	-3.3'	34" X 24"	SINGLE 2	54.45	50.22
28	315+22.2	21.1'	48" X 30"	SINGLE 2	56.93	52.35
29	315+57.7	70.9'	34" X 24"	SINGLE 2	56.38	46.42
30	315+99.8	-3.3'	48" X 30"	SINGLE 2	54.73	49.34
31	317+60.0	-3.3'	48" X 30"	SINGLE 2	55.95	52.43
32	316+00.0	89.0'	34" X 24"	SINGLE 2	54.11	50.00
33	318+99.8	89.0'	34" X 18"	SINGLE 2	56.24	52.99
254	316+80.0	-3.3'	48" X 30"	SINGLE 2	55.36	51.67
278	315+57.7	21.1'	48" X 30"	SINGLE 2	57.25	51.47

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
29	18" RCP	IV	52.5'	0.0099	50.22	49.70
30	18" RCP	IV	46.0'	0.0048	51.47	51.25
31	18" RCP	IV	36.5'	0.0080	46.42	46.13
32	18" RCP	IV	100.0'	0.0079	49.34	48.55
33	18" RCP	IV	76.0'	0.0074	52.43	51.87
34	18" RCP	IV	90.5'	0.0051	50.00	49.54
35	18" RCP	IV	195.0'	0.0149	52.99	50.09
261	18" RCP	IV	32.0'	0.0216	52.35	51.67
262	18" RCP	IV	76.5'	0.0051	51.67	51.28

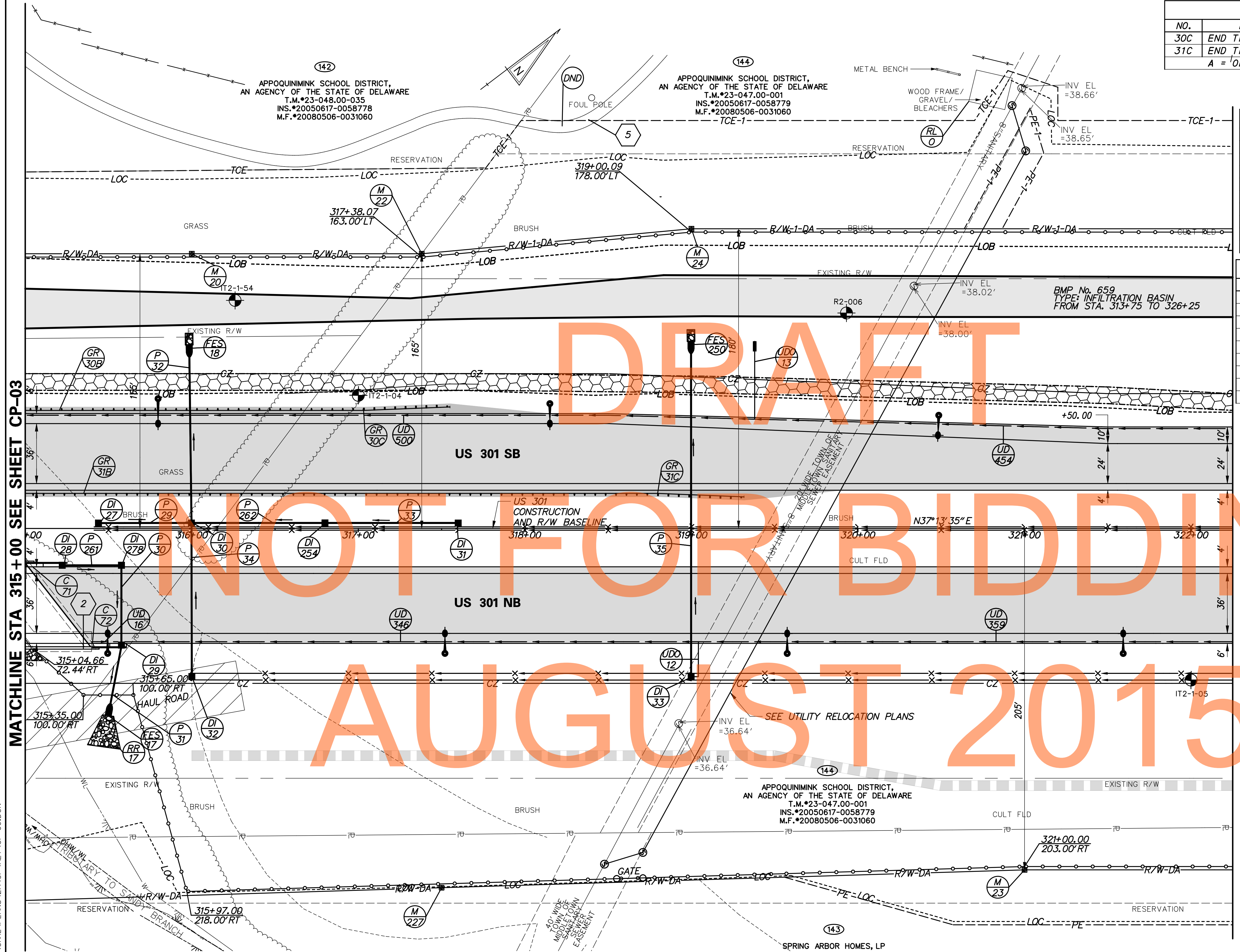
FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
17	18" RCP	0.0080	NO
18	18" RCP	0.0079	NO
250	18" RCP	0.0149	NO

RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
17	R-4	32

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
12	29	53.19
13	50	50.00

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
71	CONCRETE CURB AND GUTTER, TYPE 1-4	25.00
72	CONCRETE CURB AND GUTTER, TYPE 1-4	21.00

- NOTES:**
- 2 REFER TO STRUCTURE PLANS FOR RIPRAP AT ABUTMENTS AND PIERS (TYP)
 - 5 CONTRACTOR IS NOT TO ENCRoACH UPON PATH

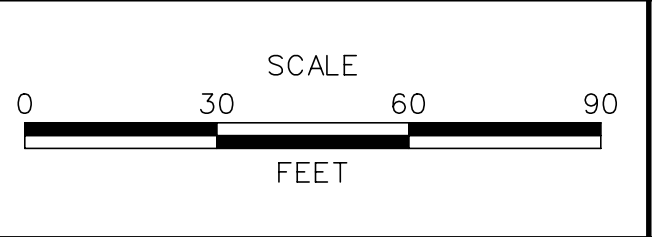


MATCHLINE STA 315+00 SEE SHEET CP-03

MATCHLINE STA 322+25 SEE SHEET CP-10

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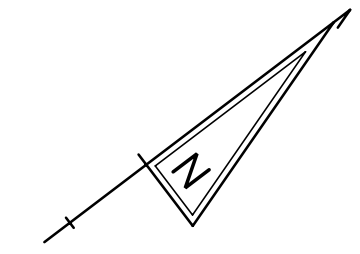
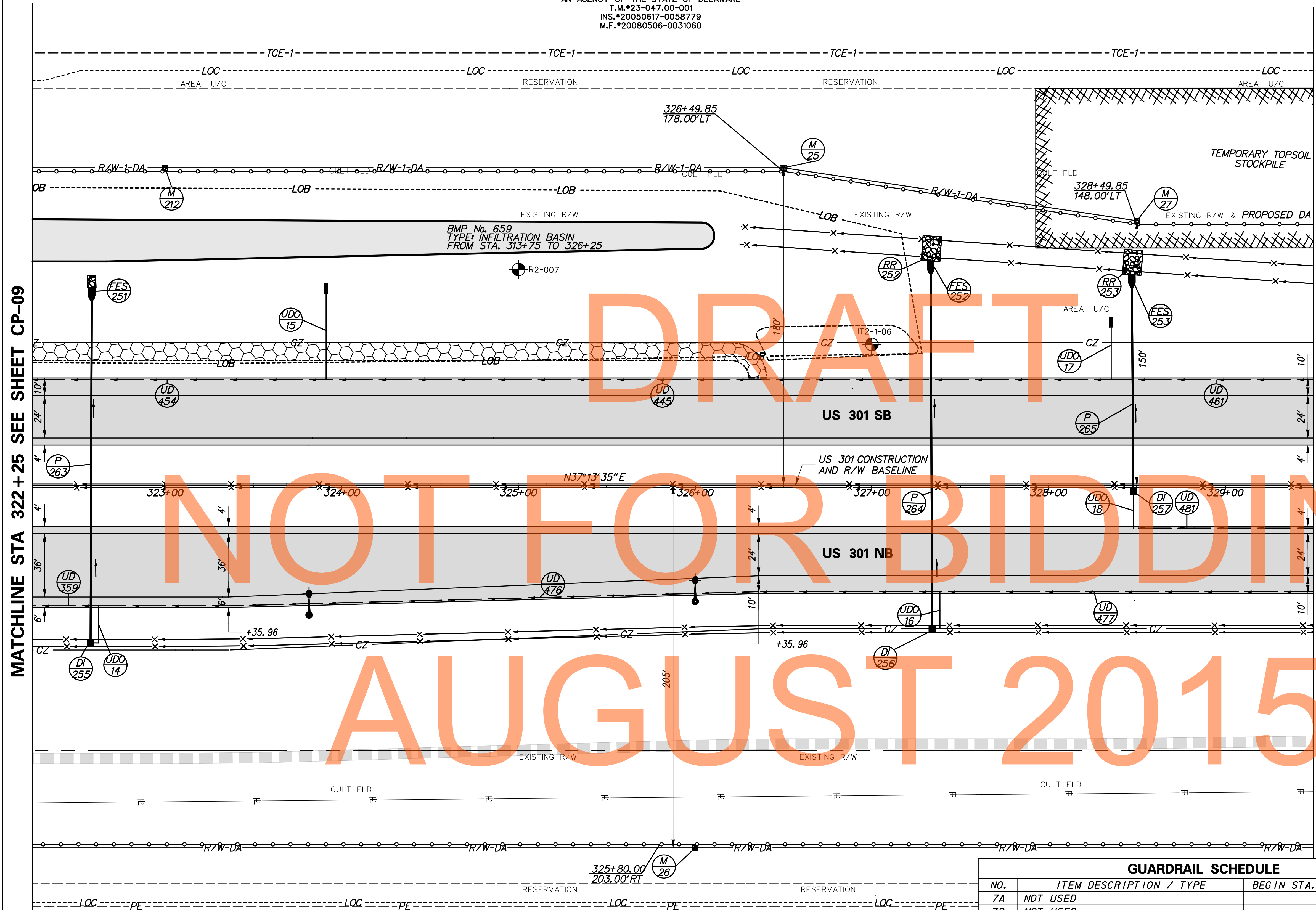
ADDENDUMS / REVISIONS	



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	T20091303
COUNTY	NEW CASTLE
BRIDGE NO.	
DESIGNED BY:	JAM
CHECKED BY:	SF

CONSTRUCTION PLAN	
CP-09	SHEET NO. 76
	TOTAL SHTS. 1256



MATCHLINE STA 322+25 SEE SHEET CP-09

MATCHLINE STA 329+50 SEE SHEET CP-11

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 NOT FOR BIDDING
 AUGUST 2015

BMP No. 659
 TYPE: INFILTRATION BASIN
 FROM STA. 313+75 TO 326+25

TEMPORARY TOPSOIL STOCKPILE

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
14	29	55.10
15	58	50.00
16	29	58.90
17	39	60.00
18	26	60.36

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
251	18" RCP	0.0245	NO
252	18" RCP	0.0283	NO
253	18" RCP	0.0035	NO

RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
252	R-4	17
253	R-4	17

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
7A	NOT USED			
7B	NOT USED			
7C	NOT USED			
8A	NOT USED			
8B	NOT USED			
8C	NOT USED			

A = OFFSET ATTENUATOR PER CONSTRUCTION DETAILS

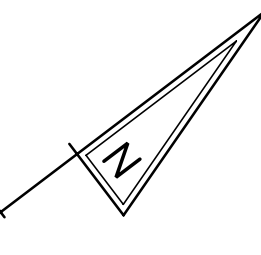
DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
255	322+57.8	89.0'	34" X 18"	SINGLE 2	58.83	54.90
256	327+34.1	80.9'	34" X 18"	SINGLE 2	62.33	58.70
257	328+48.0	3.3'	34" X 18"	SINGLE 2	63.73	60.17

DRAINAGE PIPE SCHEDULE							
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.	
263	18" RCP	IV	194.5'	0.0245	54.90	50.15	
264	18" RCP	IV	202.0'	0.0283	58.70	53.00	
265	18" RCP	IV	116.0'	0.0350	60.17	56.10	

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DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
258	332+10.1	81.0'	34" X 18"	SINGLE 2	66.85	63.44
259	333+28.1	3.3'	34" X 18"	SINGLE 2	66.75	63.52

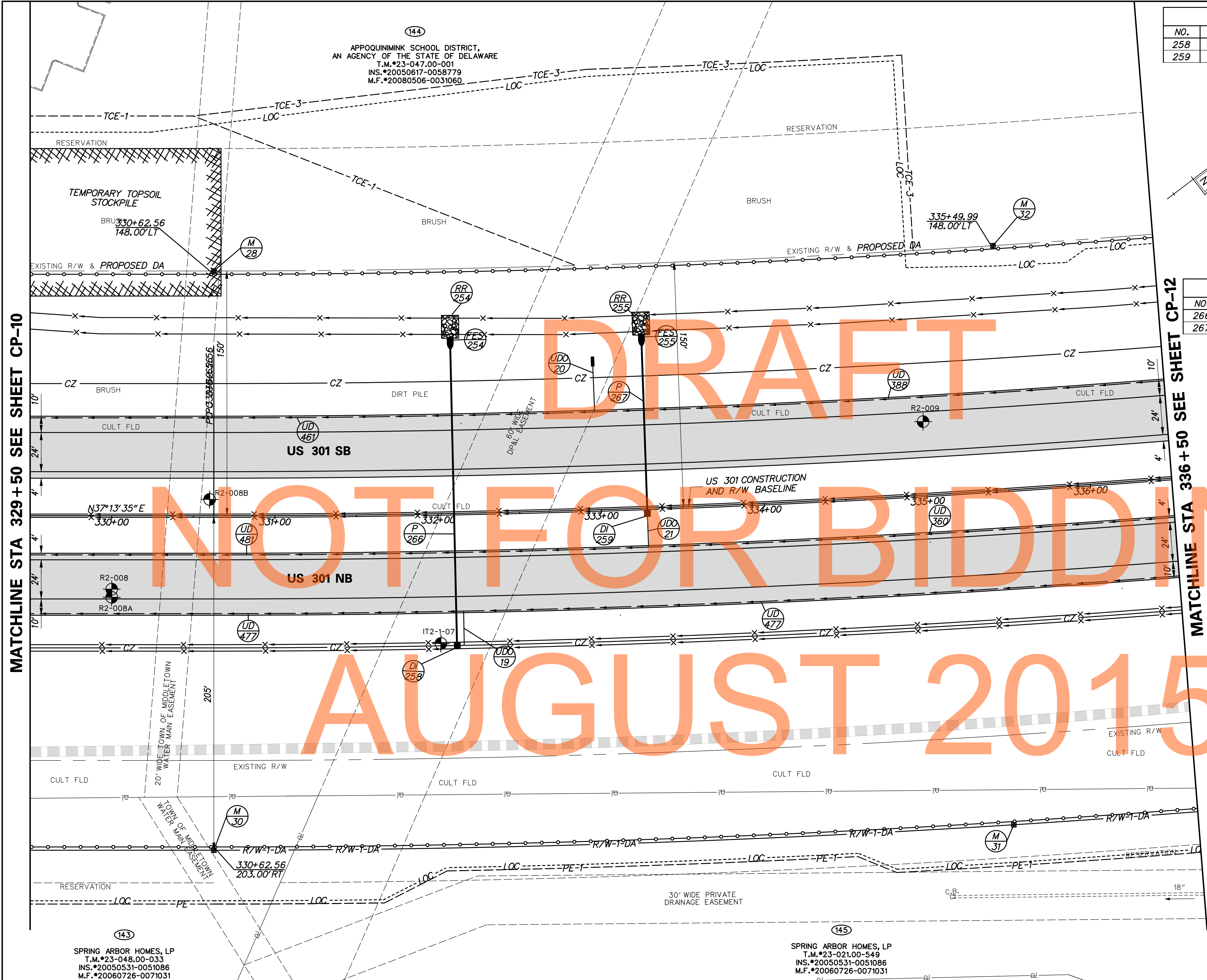
UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
19	29	63.64
20	37	64.00
21	25	63.72



DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
266	18" RCP	IV	182.5'	0.0130	63.44	61.08
267	18" RCP	IV	103.5'	0.0048	63.52	63.03

RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
254	R-4	17
255	R-4	17

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
254	18" RCP	0.0130	NO
255	18" RCP	0.0048	NO



MATCHLINE STA 329+50 SEE SHEET CP-10

MATCHLINE STA 336+50 SEE SHEET CP-12

NOT FOR BIDDING

AUGUST 2015

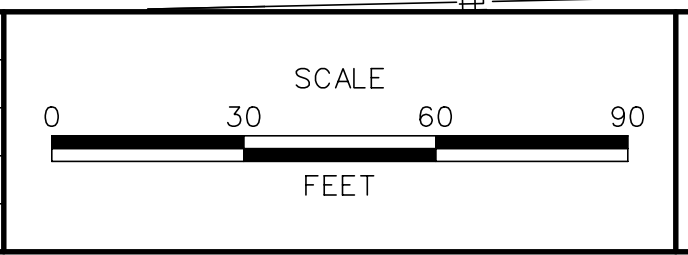
144
 APPOQUINIMINK SCHOOL DISTRICT,
 AN AGENCY OF THE STATE OF DELAWARE
 T.M.#23-047.00-001
 INS.#20050617-0058779
 M.F.#20080506-0031060

143
 SPRING ARBOR HOMES, LP
 T.M.#23-048.00-033
 INS.#20050531-0051086
 M.F.#20060726-0071031

145
 SPRING ARBOR HOMES, LP
 T.M.#23-021.00-549
 INS.#20050531-0051086
 M.F.#20060726-0071031

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT T20091303	BRIDGE NO.	DESIGNED BY: AM
COUNTY NEW CASTLE	CHECKED BY: SF	

CONSTRUCTION PLAN	CP-11
	SHEET NO. 78
	TOTAL SHTS. 1256

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DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
34*	343+24.9	-3.3'	34" X 18"	SINGLE 2	64.95	62.33
279*	341+60.3	-3.3'	34" X 18"	SINGLE 2	66.33	63.91
280*	341+64.1	81.0'	34" X 18"	SINGLE 2	66.97	64.22

* INLET ROTATED 90 DEGREES

144
 APOQUINIMINK SCHOOL DISTRICT,
 AN AGENCY OF THE STATE OF DELAWARE
 T.M.*23-047.00-001
 INS.*20050617-0058779
 M.F.*20080506-0031060

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
46A	END TREATMENT ATT, TYPE 1	342+30.0	A	50.00'
46B	GALVANIZED SBGR, TYPE 1	342+80.1	62.92'	287.50'
10A	END TREATMENT ATT, TYPE 1	341+84.5	A	50.00'
10B	GALVANIZED SBGR, TYPE 1	342.34.5	21.08'	550.00'

A = OFFSET ATTENUATOR PER CONSTRUCTION DETAILS

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
36	14" x 23" HERCP	IV	172.5'	0.0065	62.33	61.21
282	14" x 23" HERCP	IV	163.0'	0.0085	63.91	62.53
283	18" RCP	IV	219.0'	0.0055	64.22	63.02
801	24" x 38" HERCP	IV	297.0'	0.0025	59.77	59.03
802	24" x 38" HERCP	IV	90.0'	0.0025	60.00	59.78

MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
801	343+25.0	92.7'	BOX 48" X 30"	69.00	59.77

RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
800	R-4	25
801	R-4	38

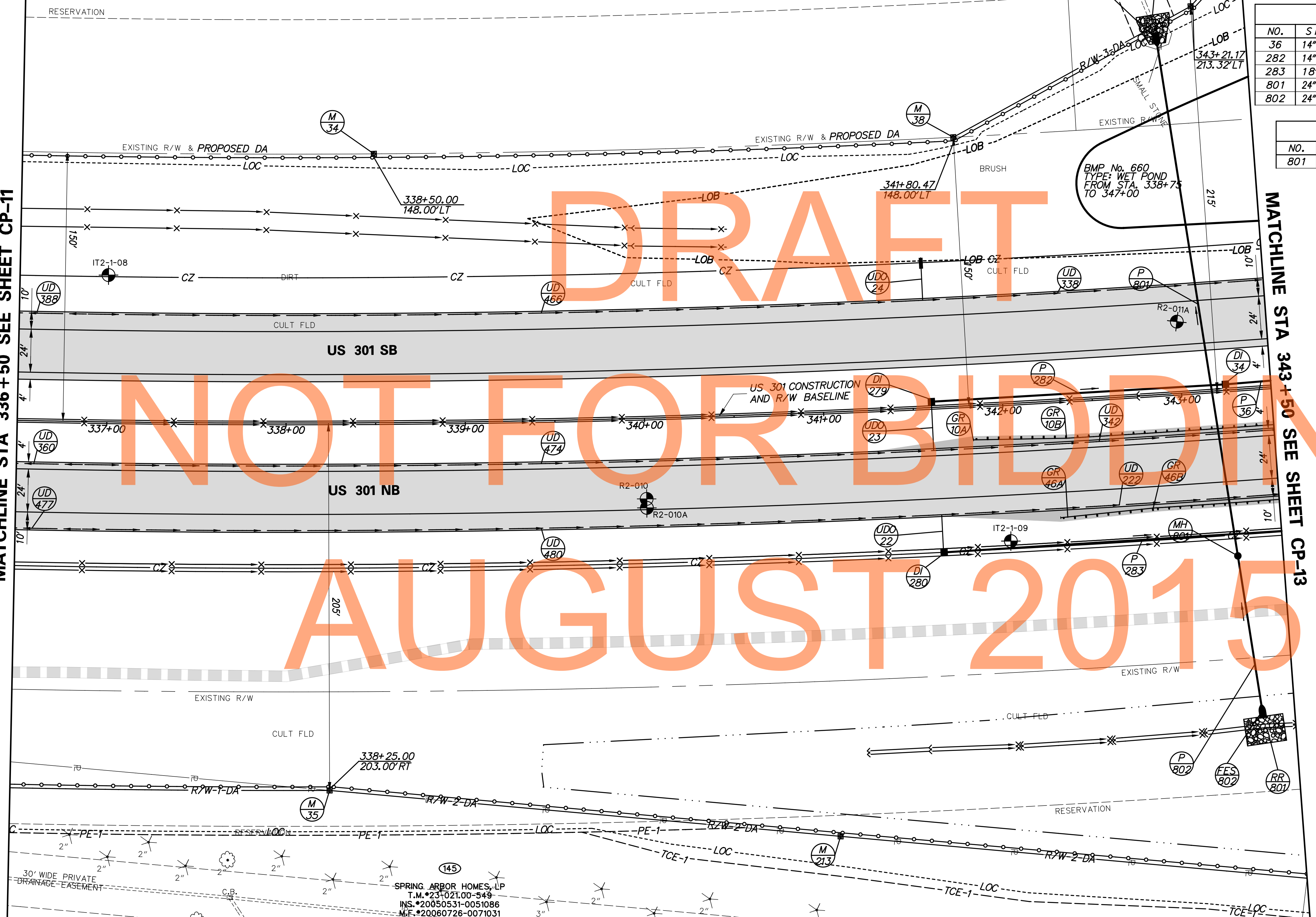
UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
22	25	64.42
23	31	64.11
24	27	64.00

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
801	24" X 38" HERCP	0.0025	YES
802	24" X 38" HERCP	0.0025	YES

MATCHLINE STA 336+50 SEE SHEET CP-11

MATCHLINE STA 343+50 SEE SHEET CP-13

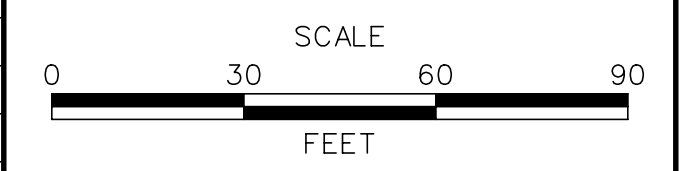
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 AUGUST 2015



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ADDENDUMS / REVISIONS	



**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN	CP-12
	SHEET NO. 79
	TOTAL SHTS. 1256

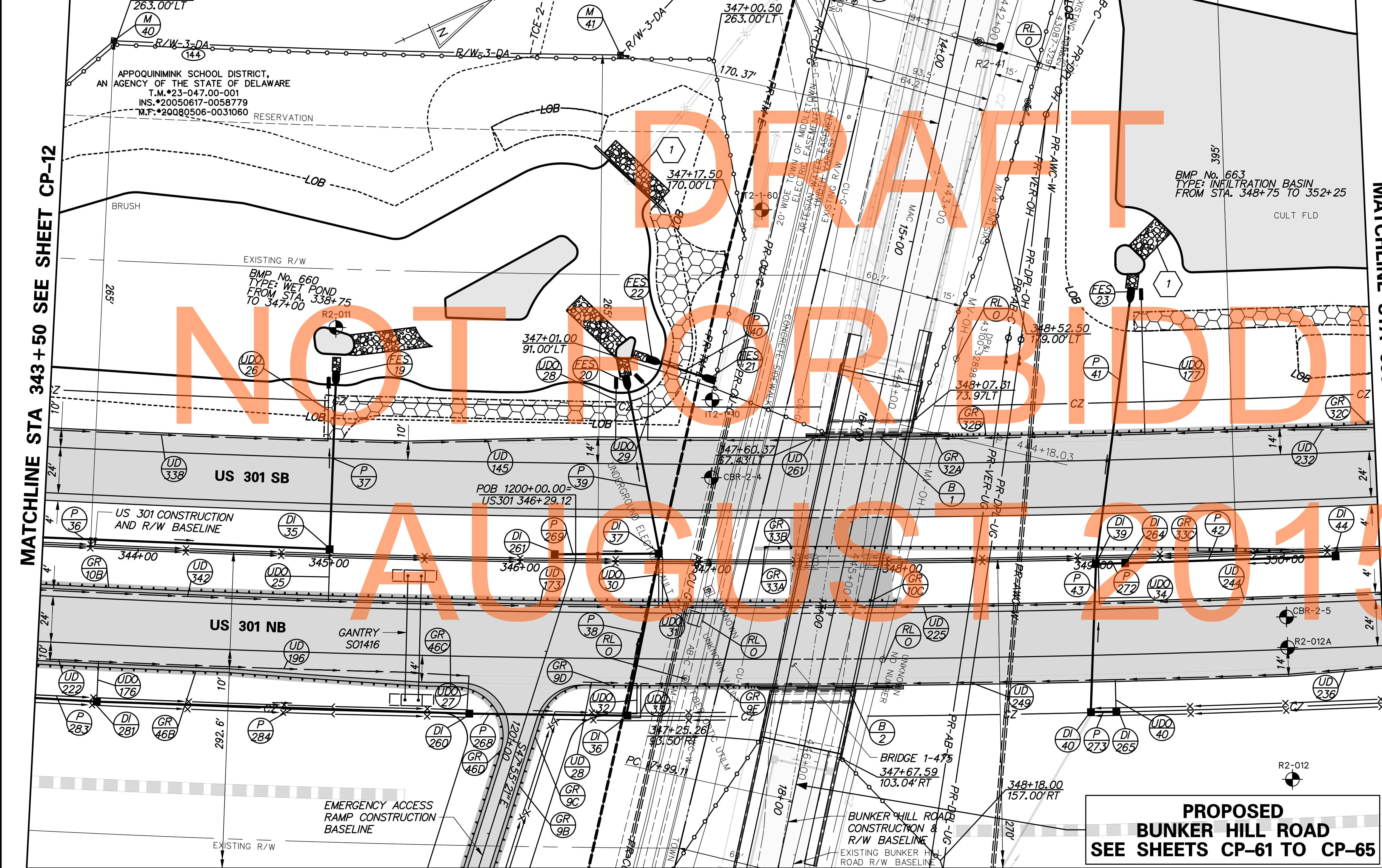
GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
9C	CURVED GR SECTION (TYPE 31)	1200+94.3	7.50'	50.00'
9D	GALVANIZED SBGR, TYPE 1	346+43.8	65.00'	62.50'
9E	GR TO BARRIER CONN, ATT TYPE 1	347+05.4	65.00'	19.75'
10C	END ANCHORAGE TYPE 31	347+82.9	21.08'	12.50'
32A	GR TO BARRIER CONN, APPR TYPE 1	348+25.0	-65.00'	19.75'
32B	GALVANIZED SBGR, TYPE 1	348+44.9	-65.00'	200.00'
32C	END TREATMENT ATT, TYPE 1	350+46.7	A	50.00'
33A	END ANCHORAGE TYPE 31	347+29.4	-8.00'	12.50'
33B*	GALVANIZED SBGR, TYPE 1	347+42.0	-8.00'	212.50'
33C	END TREATMENT ATT, TYPE 3	349+54.6	-8.00'	50.00'
46C	CURVED GR SECTION (TYPE 31)	345+65.0	67.00'	50.00'
46D	GALVANIZED SBGR, TYPE 1	1201+06.5	7.50'	312.50'

A = OFFSET ATTENUATOR PER CONSTRUCTION DETAILS

LENGTHS FOR BARRIER CONNECTIONS ARE MEASURED FROM THE END OF BARRIER WALL FOR LAYOUT PURPOSES AND ARE PAID FOR AS AN (EA.) ITEM.

343+75.82 * REFER TO MEDIAN DETAIL FOR TAPER DETAILS



DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
35	345+00.2	-3.3'	48" X 48"	SINGLE 2	63.99	61.01
36	346+56.8	82.4'	66" X 66"	SINGLE 2	64.55	60.86
37	346+72.6	-3.3'	72" X 48"	DOUBLE 2	63.46	60.11
39	349+03.5	3.3'	48" X 30"	SINGLE 2	64.60	60.71
40	348+97.0	80.8'	48" X 30"	SINGLE 2	65.39	61.50
44*	350+26.9	3.3'	34" X 18"	SINGLE 2	65.29	62.50
260	345+75.0	81.0'	48" X 30"	SINGLE 2	64.73	61.31
261	346+18.1	-3.3'	48" X 30"	SINGLE 2	64.23	60.98
264*	349+16.7	3.3'	34" X 18"	SINGLE 2	64.38	61.40
265	349+10.1	80.8'	48" X 30"	SINGLE 2	65.44	62.19
281*	343+82.0	81.0'	34" X 18"	SINGLE 2	65.77	62.48

* INLET ROTATED 90 DEGREES

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
37	14" x 23" HERCP	IV	84.5'	0.0031	61.01	60.75
38	14" x 23" HERCP	IV	82.0'	0.0050	60.86	60.45
39	19" x 30" HERCP	IV	87.0'	0.0015	60.11	59.98
40	14" x 23" HERCP	IV	26.0'	0.0263	61.84	61.16
41	24" RCP	IV	138.0'	0.0067	60.71	59.79
42	18" RCP	V	109.0'	0.0085	62.50	61.60
43	24" RCP	IV	75.5'	0.0078	61.50	60.91
268	14" x 23" HERCP	IV	78.0'	0.0032	61.31	61.06
269	14" x 23" HERCP	IV	50.0'	0.0107	60.98	60.45
272	18" RCP	IV	10.5'	0.0176	61.40	61.21
273	18" RCP	IV	9.5'	0.0207	62.19	62.00
284	14" x 23" HERCP	IV	193.0'	0.0051	62.48	61.51

FLARED END SECTION SCHEDULE

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
19	14" x 23" HERCP	0.0031	NO
20	19" x 30" HERCP	0.0015	NO
21	14" x 23" HERCP	0.0263	NO
22	14" x 23" HERCP	0.0263	NO
23	24" RCP	0.0067	NO

NOTES:

1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASIN (TYP)

UNDERDRAIN OUTLETS

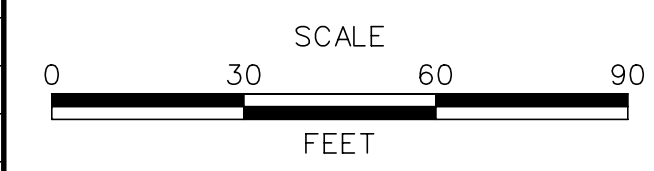
NO.	LENGTH	DIS. EL.
25	32	61.20
26	36	62.00
27	23	61.90
28	36	61.00
29	40	61.00
30	32	60.31
31	32	60.31
32	25	61.58
33	29	61.58
34	25	61.60
40	21	62.40
176	25	62.52
177	79	60.00

BARRIER SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
B1	CONCRETE SINGLE FACE BARRIER, TYPE 1	74.34'
B2	CONCRETE SINGLE FACE BARRIER, TYPE 1	75.66'

PROPOSED BUNKER HILL ROAD
SEE SHEETS CP-61 TO CP-65

MATCHLINE SEE SHEET CP14



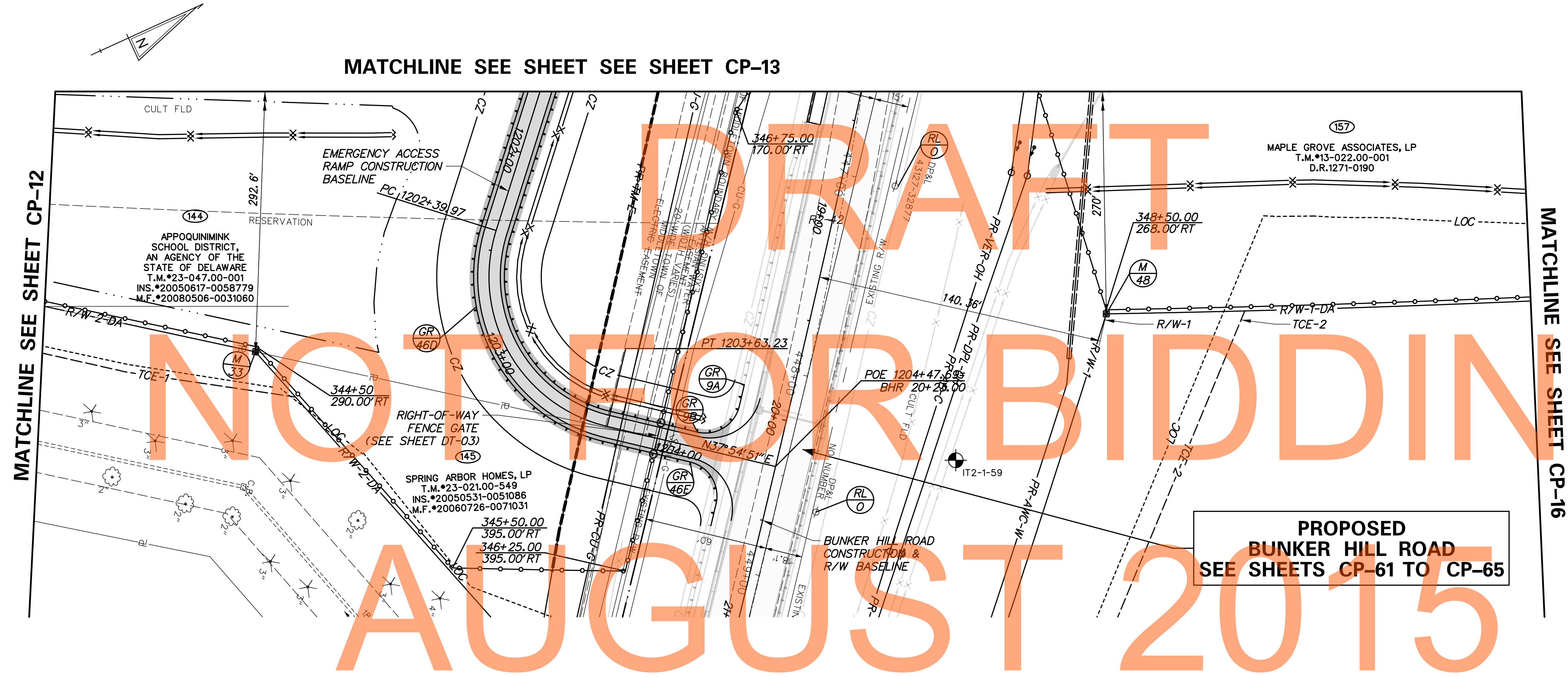
US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	T20091303
COUNTY	NEW CASTLE
BRIDGE NO.	
DESIGNED BY:	JAM
CHECKED BY:	SF

CONSTRUCTION PLAN

CP-13
SHEET NO.
80
TOTAL SHTS.
1256

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
9A	CURVED GR SECTION TYPE 31	19+87.6	24.00	37.50
9B	GALVANIZED SBOR TYPE 1	1204+06.7	7.50	300.00
46E	CURVED GR SECTION TYPE 31	1204+06.7	7.50	37.50
A = OFFSET ATTENUATOR PER CONSTRUCTION DETAILS				



**PROPOSED
BUNKER HILL ROAD
SEE SHEETS CP-61 TO CP-65**

MATCHLINE SEE SHEET SEE SHEET CP-13

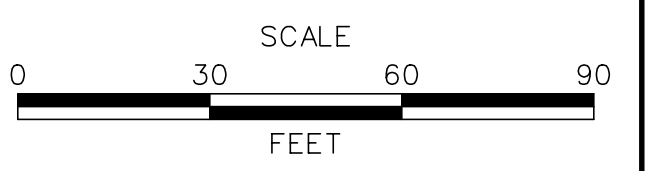
MATCHLINE SEE SHEET CP-12

MATCHLINE SEE SHEET CP-16

P:\CADD\2004\9040 US301\CIVIL\PLANS\2A\CP\AET\CP-14.DGN



ADDENDUMS / REVISIONS



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	AM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

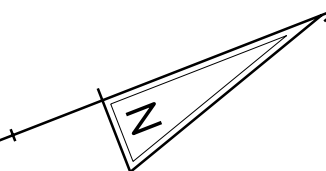
CP-14
SHEET NO.
81
TOTAL SHTS.
1256

MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T. G. EL.	INV. EL.
802	352+08.7	90.0'	BOX 92" X 54"	69.00	57.80

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T. G. EL.	INV. EL.
41	351+56.8	-81.0'	48" X 30"	SINGLE 2	65.11	60.80
42	351+50.8	-3.3'	48" X 30"	SINGLE 2	65.86	61.45
43	351+44.3	80.9'	48" X 30"	SINGLE 2	66.74	62.88
45	354+00.0	-3.3'	48" X 30"	SINGLE 2	67.21	64.11
46	354+45.3	81.0'	48" X 30"	SINGLE 2	67.65	64.56

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
44	24" RCP	IV	48.0'	0.0195	60.80	59.87
45	24" RCP	IV	76.0'	0.0059	61.45	61.00
46	18" RCP	IV	82.0'	0.0114	62.88	61.95
48	18" RCP	IV	245.5'	0.0055	64.11	62.75
49	18" RCP	IV	297.5'	0.0050	64.56	63.08
803	43" x 68" HERCP	IV	236.0'	0.0032	57.80	57.04
804	54" RCP	V	124.0'	0.0032	59.00	58.60

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
41	25	65.10
178	30	61.25
179	36	62.20
180	26	65.00
181	54	65.03



FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
24	24" RCP	0.0195	NO

RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
802	R-4	46
828	R-4	193

NOTES:
 1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASINS (TYP)

MATCHLINE STA 350+50 SEE SHEET CP-13

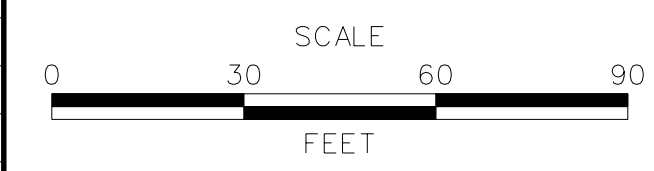
MATCHLINE STA 357+50 SEE SHEET CP-17

MATCHLINE SEE SHEET CP-16

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ADDENDUMS / REVISIONS	



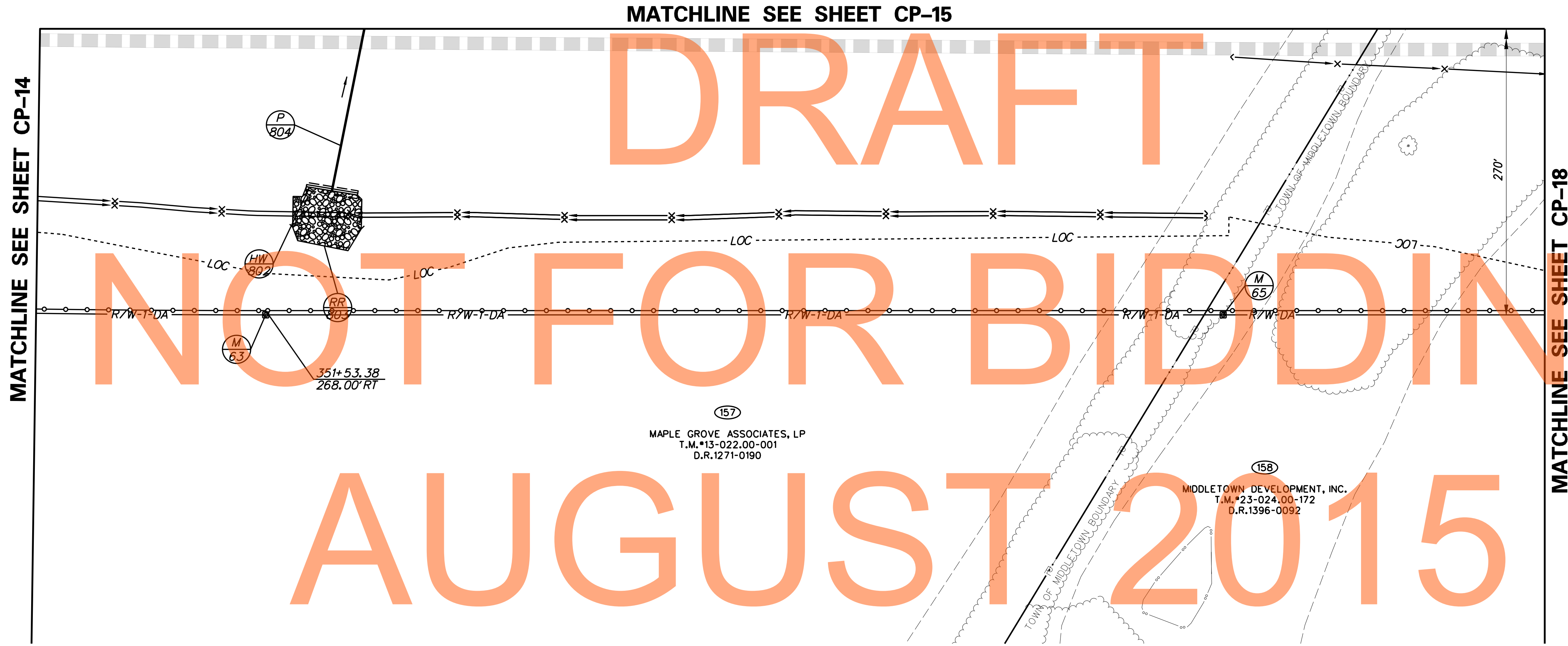
**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-15
SHEET NO.
82
TOTAL SHTS.
1256

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MATCHLINE SEE SHEET CP-15

MATCHLINE SEE SHEET CP-14

MATCHLINE SEE SHEET CP-18

DRAFT NOT FOR BIDDING AUGUST 2015

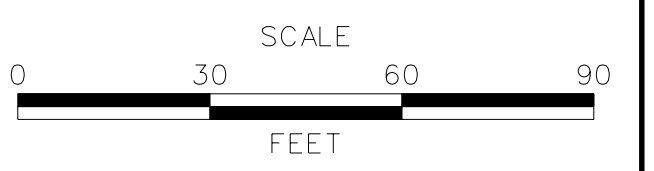
(157)
MAPLE GROVE ASSOCIATES, LP
T.M.#13-022.00-001
D.R.1271-0190

(158)
MIDDLETOWN DEVELOPMENT, INC.
T.M.#23-024.00-172
D.R.1396-0092

RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
803	R-4	159



ADDENDUMS / REVISIONS	



US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

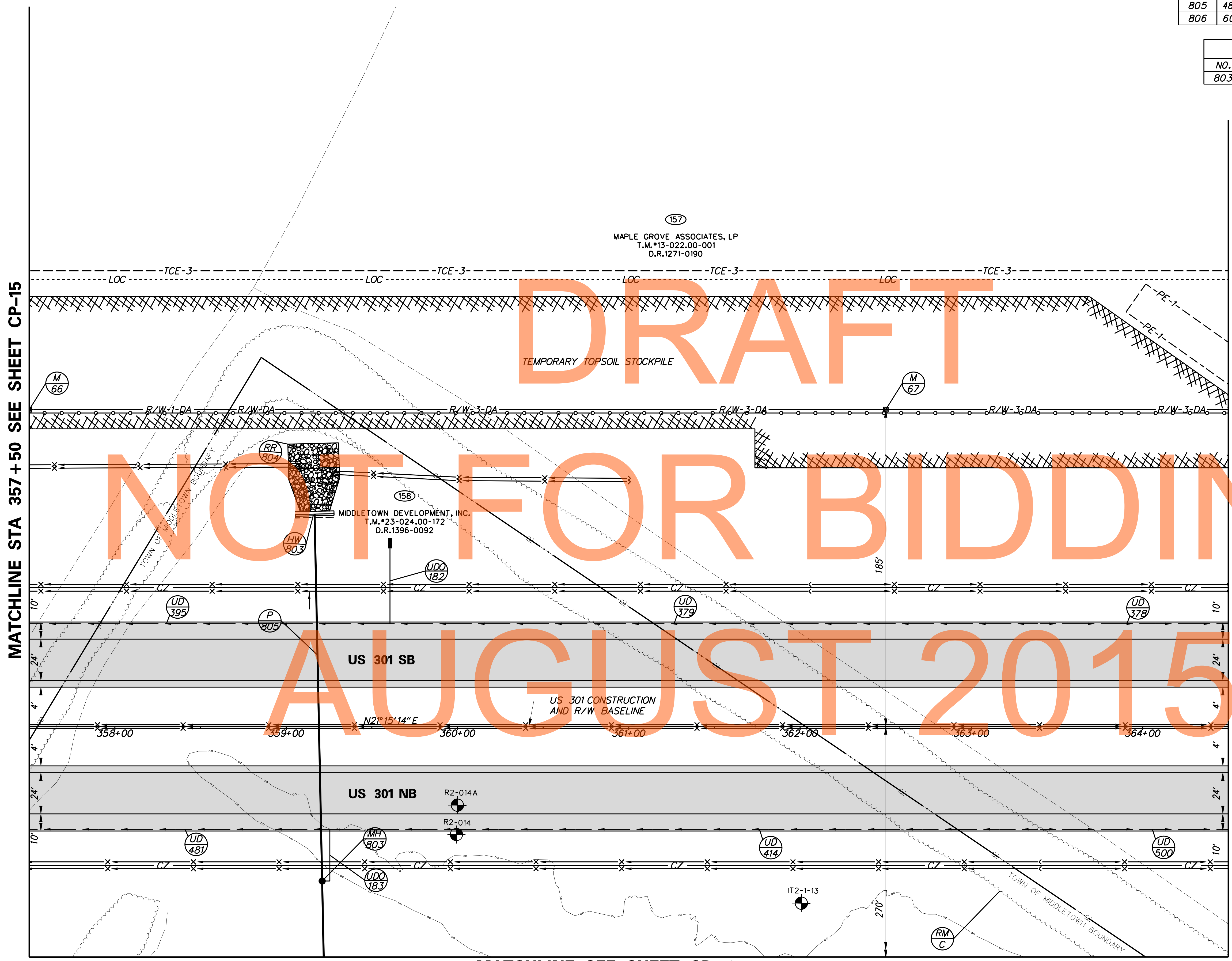
CP-16
SHEET NO.
83
TOTAL SHTS.
1256

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
805	48" x 76" HERCP	IV	215.0'	0.0030	59.01	58.36
806	60" RCP	V	120.0'	0.0030	59.38	59.02

MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
803	359+21.0	90.2'	BOX 92" X 54"	72.00	59.01

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
182	53	69.39
183	38	66.87

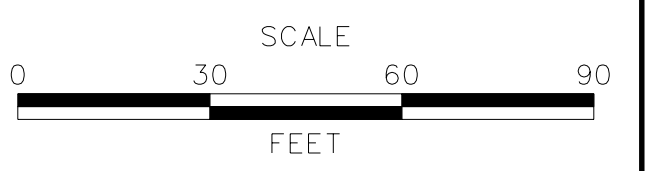
RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
804	R-4	133



DRAFT
NOT FOR BIDDING
AUGUST 2015

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ADDENDUMS / REVISIONS



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

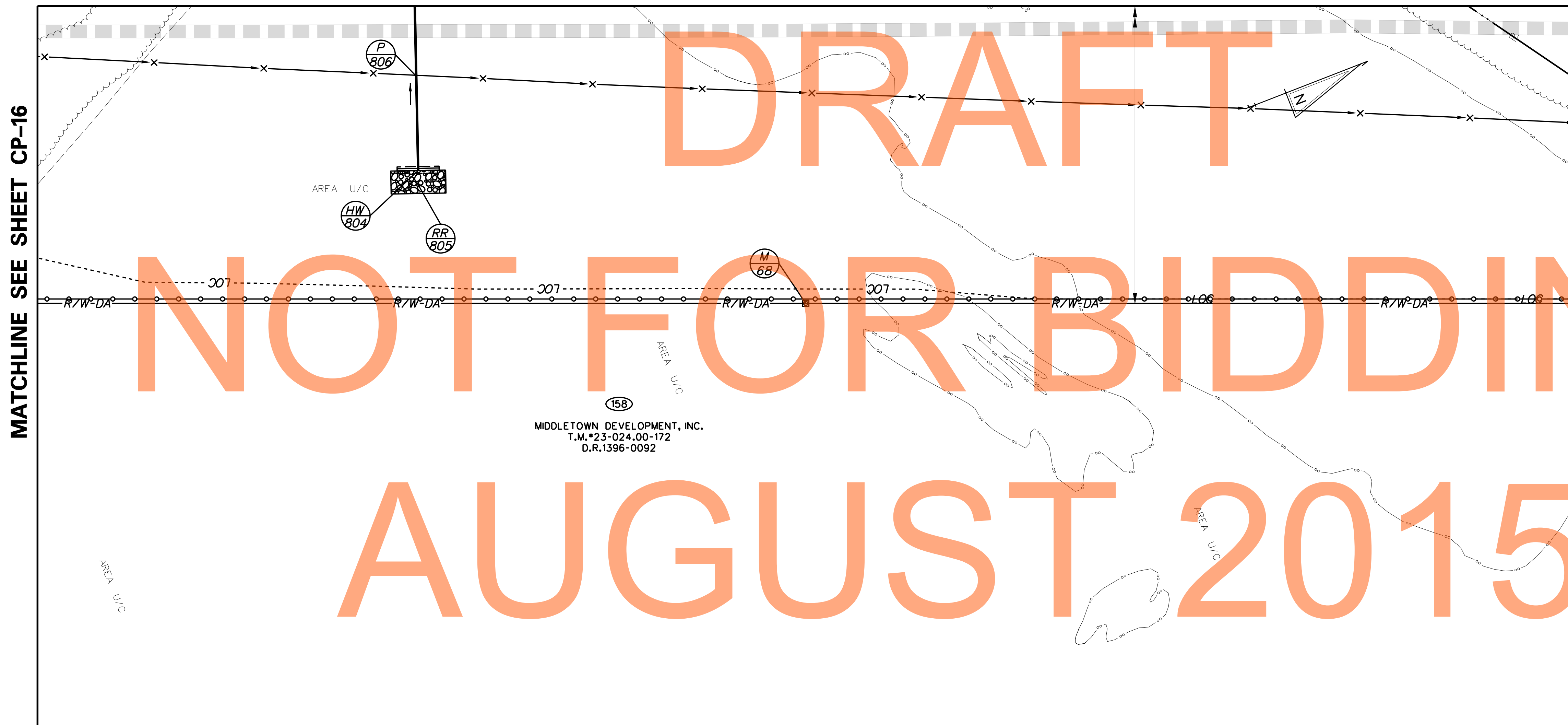
CONTRACT T20091303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: JAM
	CHECKED BY: SF

CONSTRUCTION PLAN

CP-17
SHEET NO. 84
TOTAL SHTS. 1256

MATCHLINE SEE SHEET CP-17

RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
805	R-4	32

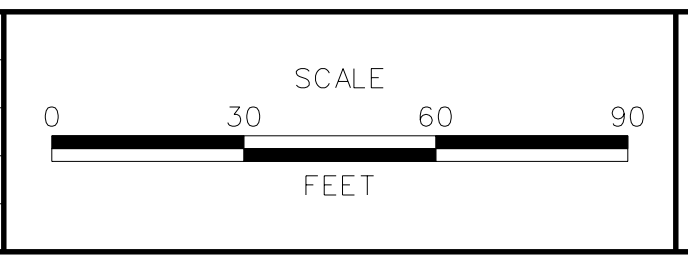


MIDDLETOWN DEVELOPMENT, INC.
T.M.#23-024.00-172
D.R.1396-0092

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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	



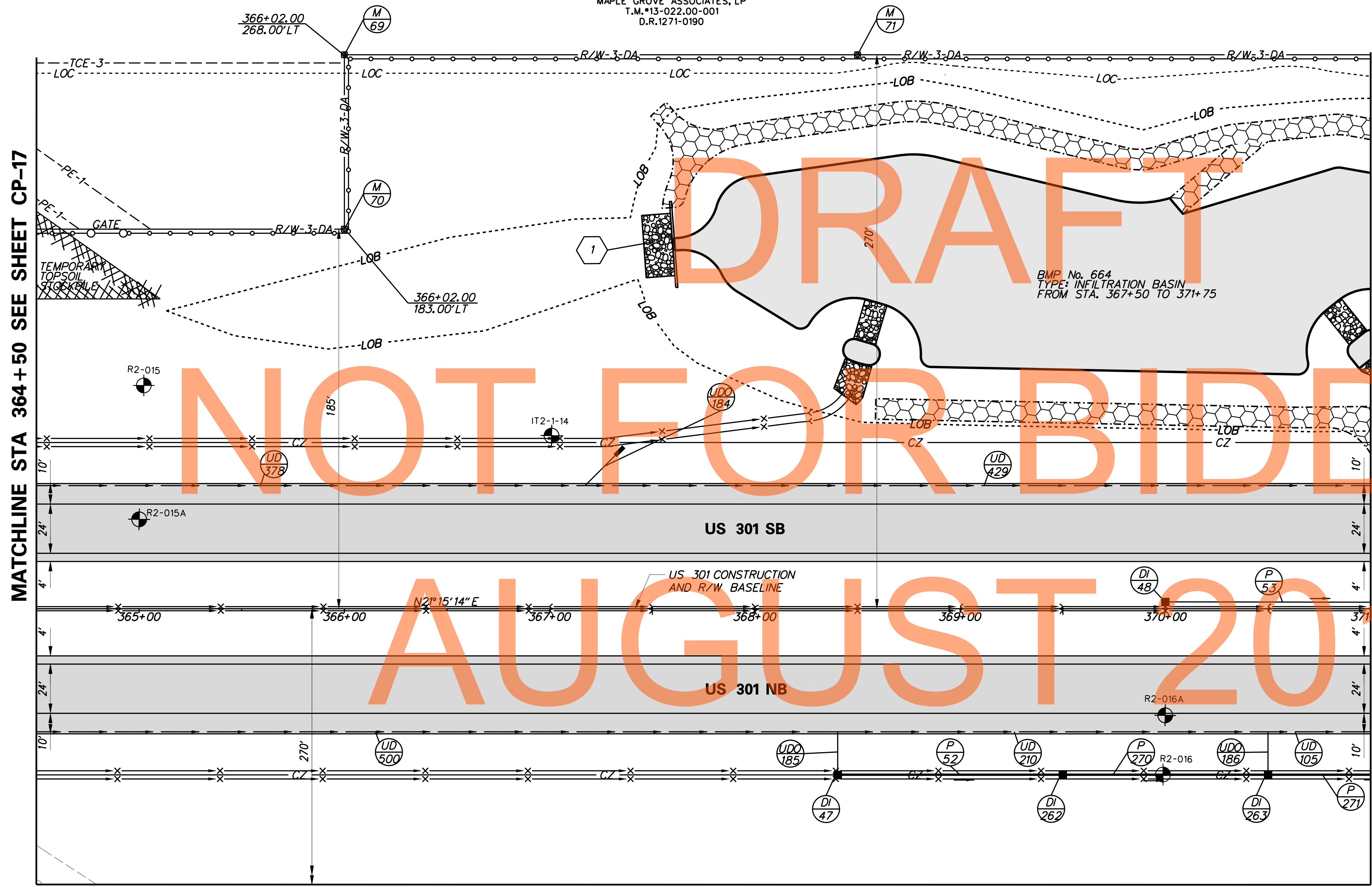
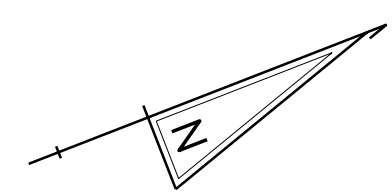
US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-18
SHEET NO.
85
TOTAL SHTS.
1256

MAPLE GROVE ASSOCIATES, LP
T.M.#13-022.00-001
D.R.1271-0190



UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
184	30	62.50
185	25	66.37
186	25	65.12

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
47	368+40.3	81.0'	48" X 30"	SINGLE 2	69.26	66.17
48	370+00.0	-3.3'	48" X 30"	SINGLE 2	68.78	65.69
262	369+50.0	81.0'	48" X 30"	SINGLE 2	68.71	65.42
263	370+50.0	81.0'	48" X 30"	SINGLE 2	68.21	64.92

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
52	18" RCP	IV	106.0'	0.0052	66.17	65.62
53	18" RCP	IV	146.0'	0.0051	65.69	64.94
270	18" RCP	IV	96.0'	0.0031	65.42	65.12
271	18" RCP	IV	96.0'	0.0030	64.92	64.63

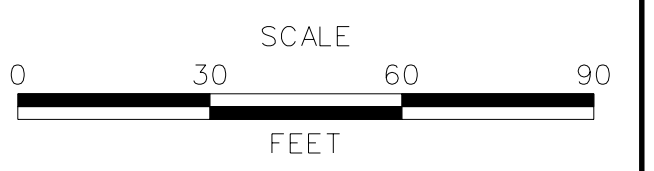
NOTES:
 1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASINS (TYP)

MATCHLINE SEE SHEET CP-20

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ADDENDUMS / REVISIONS	



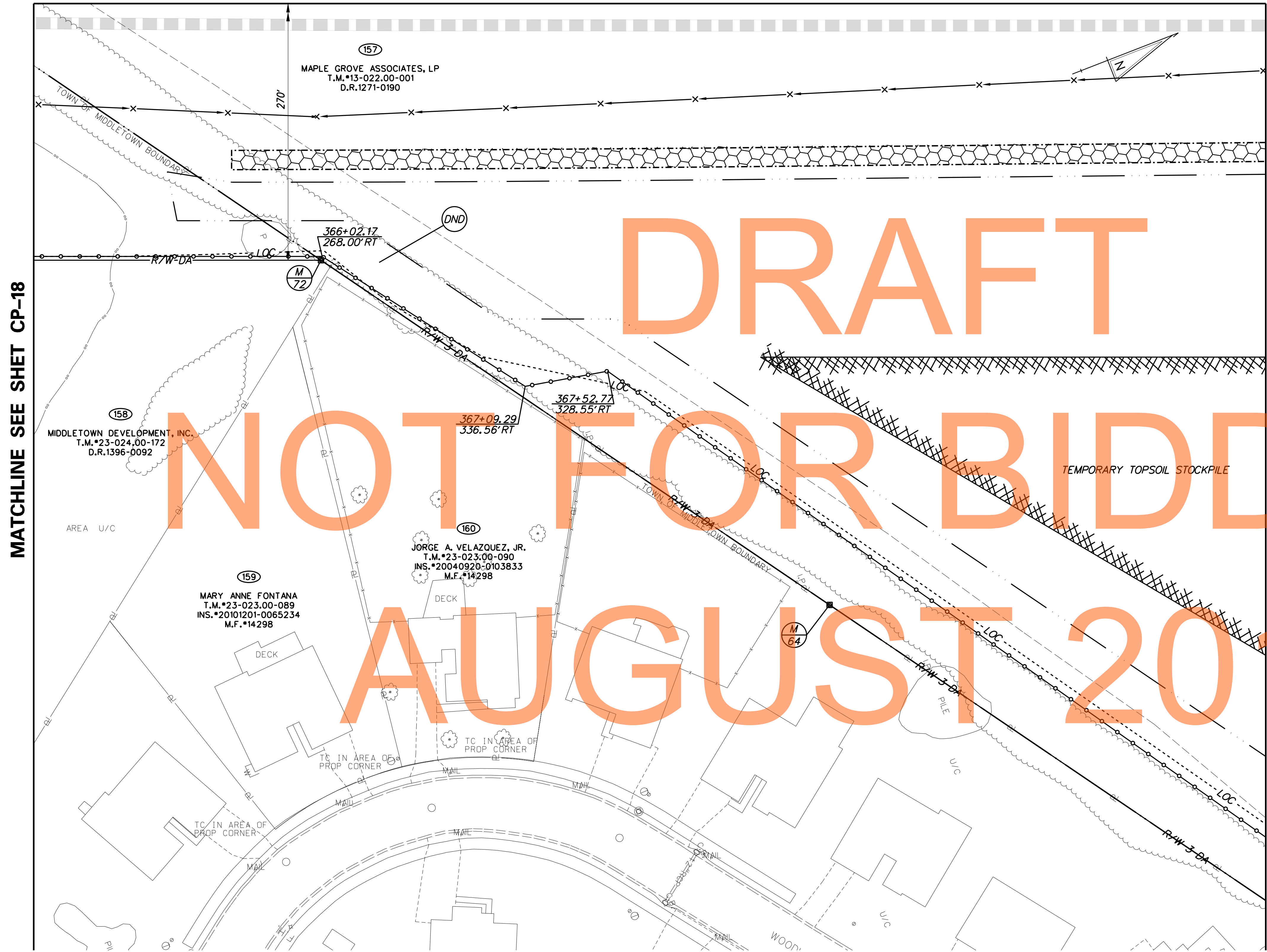
**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-19
SHEET NO.
86
TOTAL SHTS.
1256

MATCHLINE SEE SHEET CP-19



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AUGUST 2015

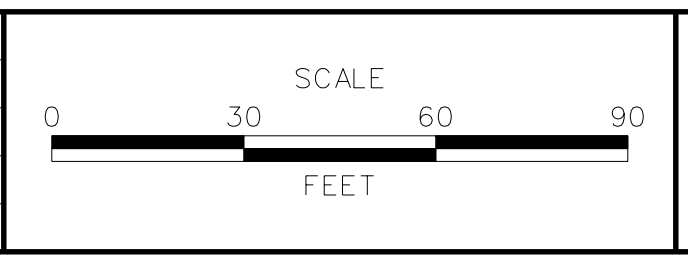
MATCHLINE SEE SHET CP-18

MATCHLINE SEE SHET CP-22

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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-20
SHEET NO.
87
TOTAL SHTS.
1256

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
49	371+50.0	-3.3'	48" X 48"	SINGLE 2	68.03	64.13
50	371+50.0	81.0'	48" X 30"	SINGLE 2	67.72	64.63
51*	371+50.0	-96.0'	66" X 48"	SINGLE 2	65.57	62.52
52	376+98.0	-81.0'	66" X 66"	SINGLE 2	65.42	62.11
53	376+98.0	-3.3'	66" X 66"	SINGLE 2	65.73	61.48
54	376+97.7	81.0'	66" X 66"	SINGLE 2	65.43	61.06
266*	375+85.0	-81.0'	34" X 18"	SINGLE 2	65.60	63.20
268*	375+85.0	-3.3'	34" X 18"	SINGLE 2	66.08	63.56
270*	375+85.0	81.0'	34" X 18"	SINGLE 2	65.75	63.35

* INLET ROTATED 90 DEGREES

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
54	18" RCP	IV	81.0'	0.0037	64.63	64.33
55	19" x 30" HERCP	IV	88.0'	0.0160	64.13	62.72
56	19" x 30" HERCP	IV	44.5'	0.0029	62.52	62.39
57	14" x 23" HERCP	IV	110.5'	0.0084	63.15	62.22
58	24" x 38" HERCP	IV	72.5'	0.0030	62.11	61.90
60	29" x 45" HERCP	IV	79.0'	0.0027	61.48	61.26
61	29" x 45" HERCP	IV	126.5'	0.0020	61.06	60.81
274	14" x 23" HERCP	IV	109.5'	0.0035	63.20	62.82
275	14" x 23" HERCP	IV	109.5'	0.0036	62.95	62.56
276	14" x 23" HERCP	IV	109.5'	0.0152	63.56	61.90
278	14" x 23" HERCP	IV	109.5'	0.0064	63.35	62.65
279	14" x 23" HERCP	IV	110.0'	0.0052	62.55	61.98
281	14" x 23" HERCP	IV	24.0'	0.0043	65.58	65.48

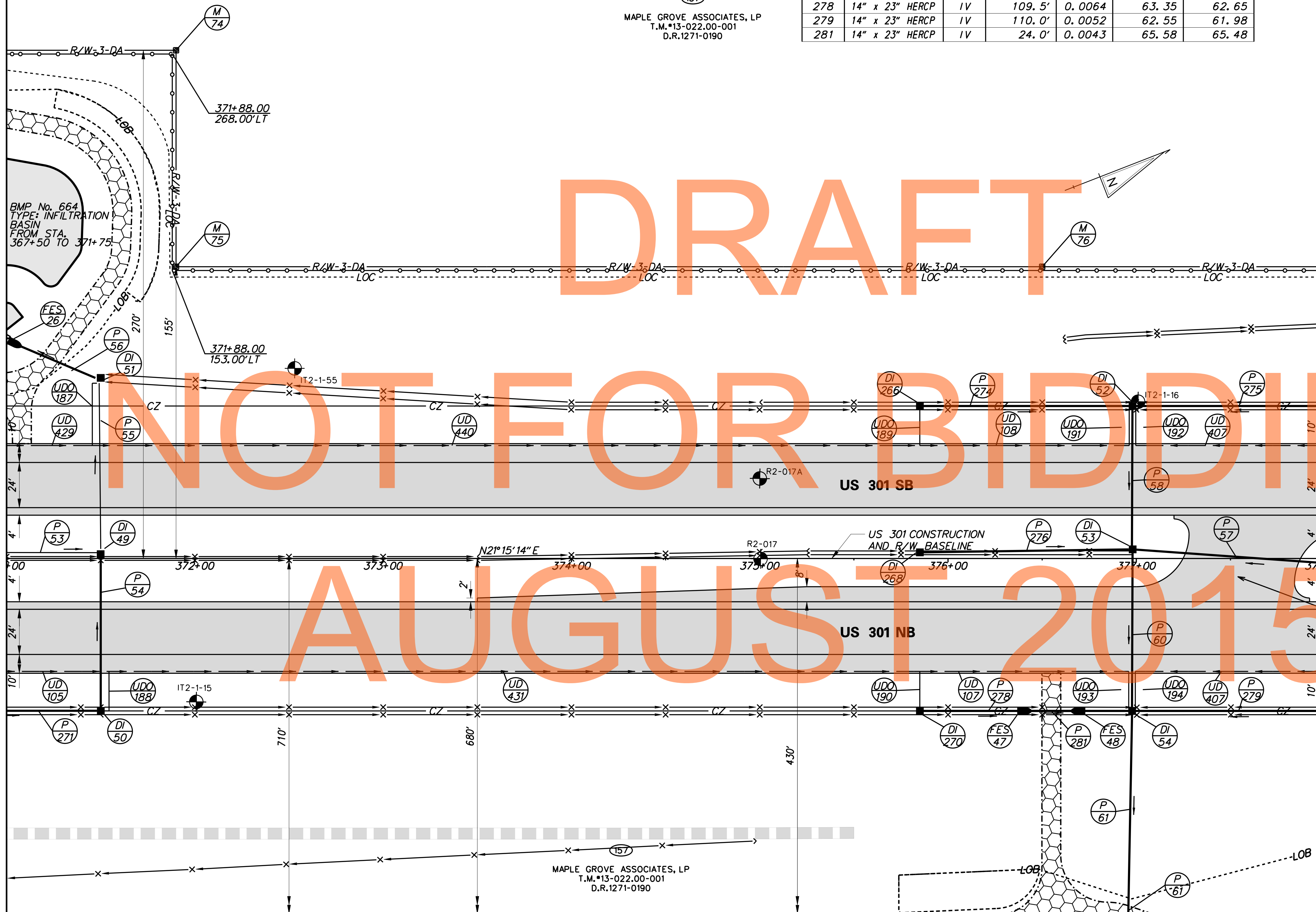
FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
26	19" x 30" HERCP	0.0029	NO
47	14" x 23" HERCP	0.0043	NO
48	14" x 23" HERCP	0.0043	NO

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
187	41	62.82
188	29	64.83
189	25	63.40
190	25	63.85
191	25	62.82
192	25	62.82
193	25	63.33
194	25	63.33

(157)
 MAPLE GROVE ASSOCIATES, LP
 T.M.*13-022.00-001
 D.R.1271-0190

MATCHLINE STA 371+00 SEE SHEET CP-19

MATCHLINE STA 378+00 SEE SHEET CP-23



MATCHLINE SEE SHEET CP-22

ADDENDUMS / REVISIONS



**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-21
SHEET NO.
88
TOTAL SHTS.
1256

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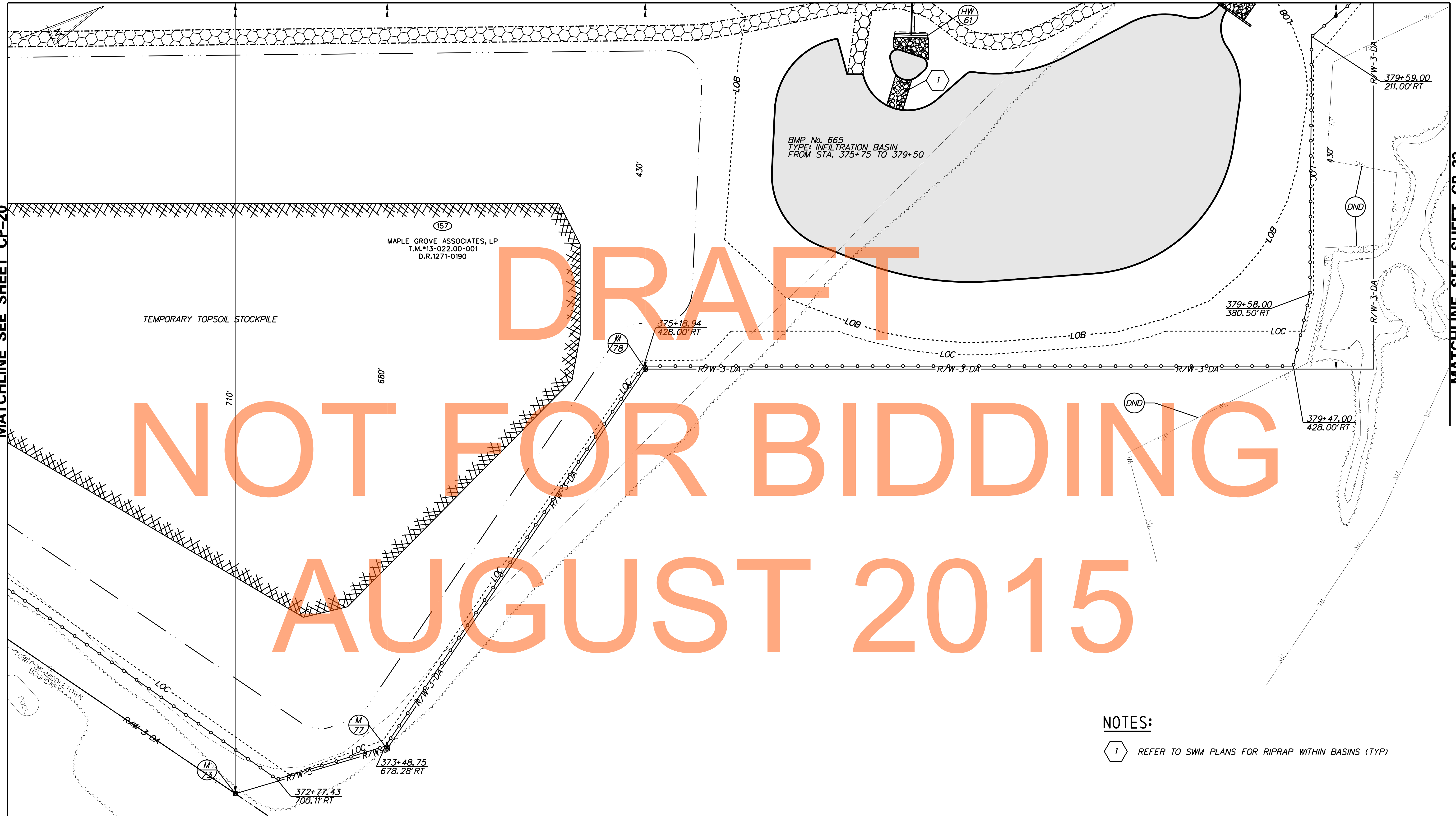


MATCHLINE SEE SHEETS CP-21 AND CP-23

MATCHLINE SEE SHEET CP-20

MATCHLINE SEE SHEET CP-23

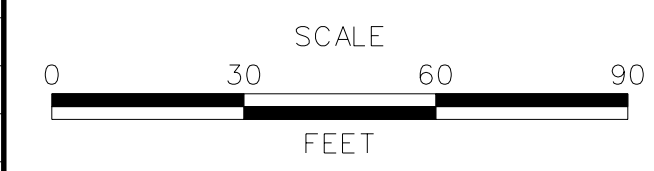
DRAFT
NOT FOR BIDDING
AUGUST 2015



NOTES:

1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASINS (TYP)

ADDENDUMS / REVISIONS



**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-22
SHEET NO.
89
TOTAL SHTS.
1256

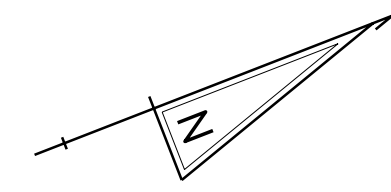


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DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
55*	379+98.1	3.3'	34" X 18"	SINGLE 2	67.16	64.76
267*	378+11.0	-81.0'	34" X 18"	SINGLE 2	65.60	62.95
269*	379+24.0	3.3'	34" X 18"	SINGLE 2	66.49	63.89
271*	378+11.0	81.0'	34" X 18"	SINGLE 2	65.75	62.55
285*	381+10.0	-81.0'	34" X 18"	SINGLE 2	67.06	64.46
286*	381+10.0	81.0'	34" X 18"	SINGLE 2	67.06	64.46
287*	384+10.4	-81.0'	34" X 18"	SINGLE 2	68.56	65.96
288*	384+10.4	81.0'	34" X 18"	SINGLE 2	68.56	65.96
291*	378+11.7	3.3'	34" X 18"	SINGLE 2	66.13	63.15

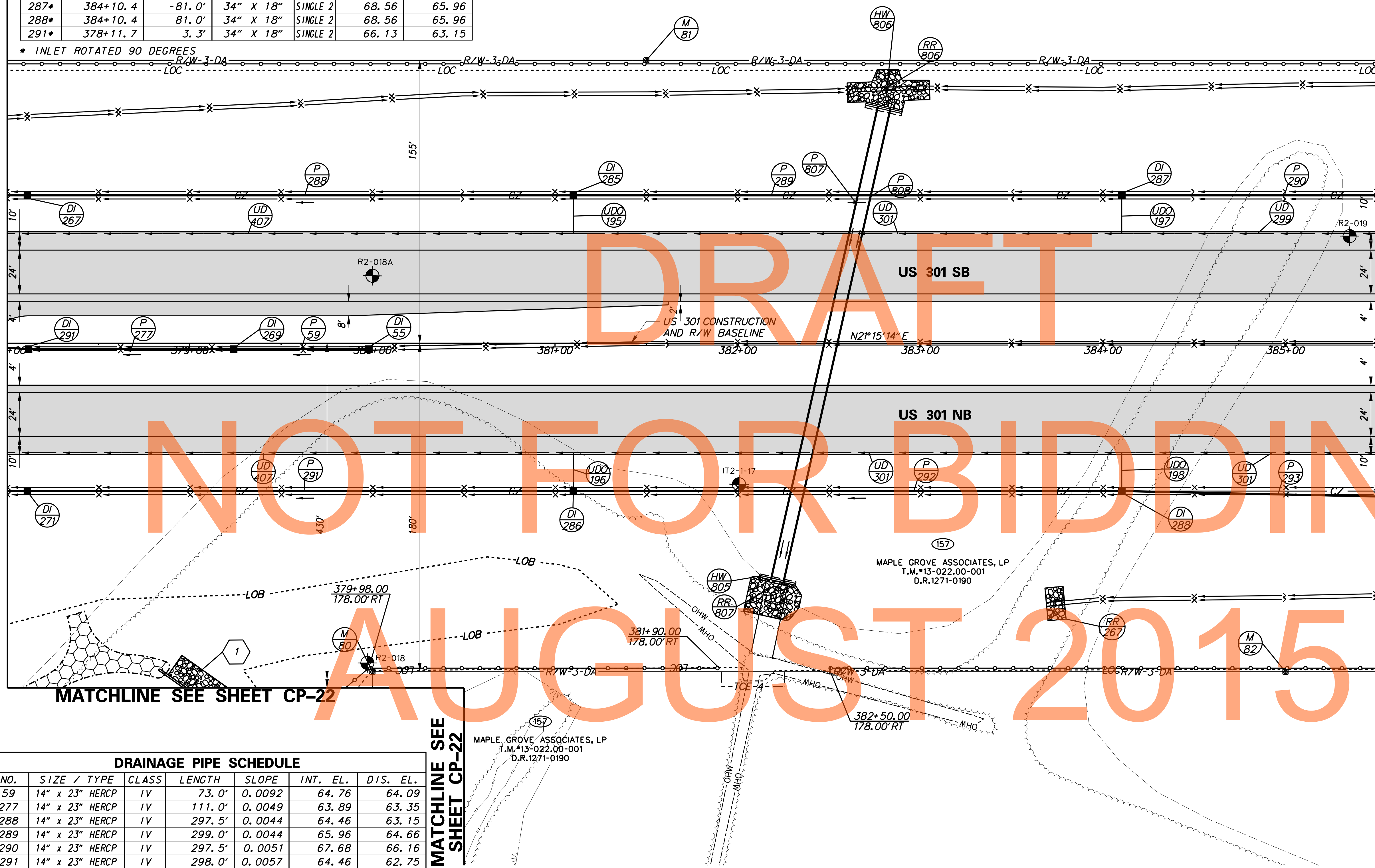
* INLET ROTATED 90 DEGREES

(157)
 MAPLE GROVE ASSOCIATES, LP
 T.M.*13-022.00-001
 D.R.1271-0190



MATCHLINE STA 378 + 00 SEE SHEET CP-21

MATCHLINE STA 385 + 50 SEE SHEET CP-24



UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
195	25	64.96
196	25	64.96
197	25	66.46
198	25	66.46

RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
267	R-4	20
806	R-4	72
807	R-4	67

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
59	14" x 23" HERCP	IV	73.0'	0.0092	64.76	64.09
277	14" x 23" HERCP	IV	111.0'	0.0049	63.89	63.35
288	14" x 23" HERCP	IV	297.5'	0.0044	64.46	63.15
289	14" x 23" HERCP	IV	299.0'	0.0044	65.96	64.66
290	14" x 23" HERCP	IV	297.5'	0.0051	67.68	66.16
291	14" x 23" HERCP	IV	298.0'	0.0057	64.46	62.75
292	14" x 23" HERCP	IV	299.0'	0.0043	65.96	64.66
293	14" x 23" HERCP	IV	297.5'	0.0051	67.68	66.16
807	38" x 60" HERCP	IV	262.0'	0.0030	57.40	56.61
808	38" x 60" HERCP	IV	262.0'	0.0030	57.40	56.61

MATCHLINE SEE SHEET CP-22

NOTES:
 1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASINS (TYP)

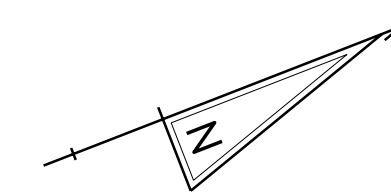
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	DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT T20091303	BRIDGE NO. _____	CONSTRUCTION PLAN	SHEET NO. 90
					COUNTY NEW CASTLE	DESIGNED BY: JAM		CHECKED BY: SF

MATCHLINE SEE SHEET CP-25

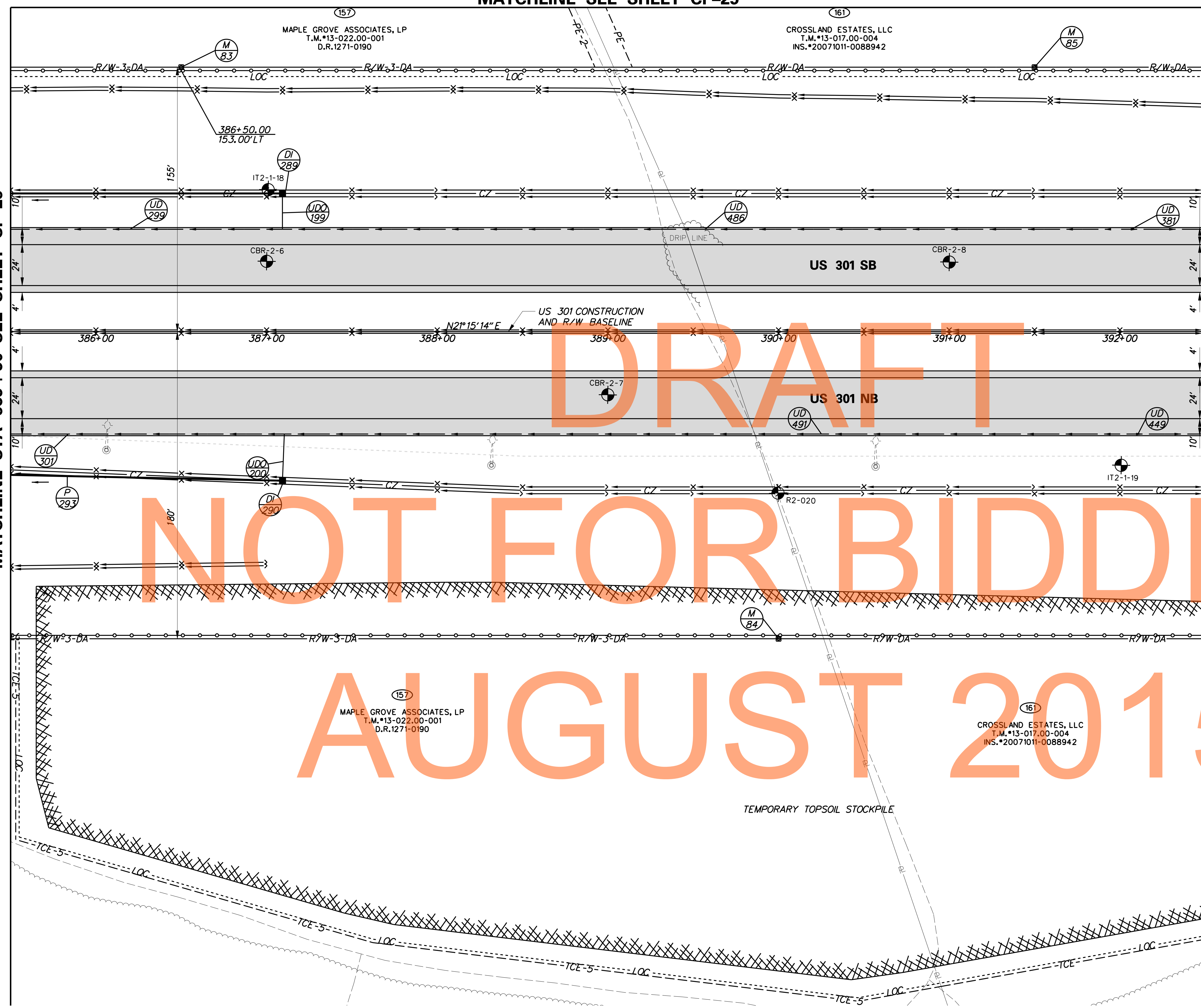
MAPLE GROVE ASSOCIATES, LP
T.M.*13-022.00-001
D.R.1271-0190

CROSSLAND ESTATES, LLC
T.M.*13-017.00-004
INS.*20071011-0088942



MATCHLINE STA 385+50 SEE SHEET CP-23

MATCHLINE STA 392+50 SEE SHEET CP-26



NOT FOR BIDDING

AUGUST 2015

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
199	25	68.18
200	37	68.18

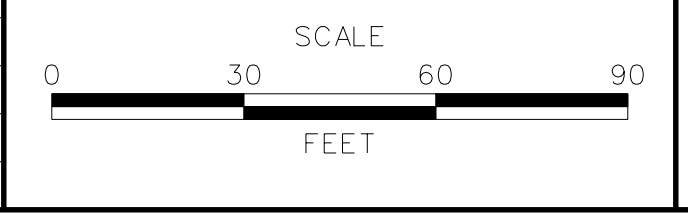
DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
289*	387+09.3	-81.0'	34" X 18"	SINGLE 2	70.08	67.68
290*	387+09.3	87.4'	34" X 18"	SINGLE 2	70.08	67.68

* INLET ROTATED 90 DEGREES

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ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	T20091303
COUNTY	NEW CASTLE
BRIDGE NO.	
DESIGNED BY:	JAM
CHECKED BY:	SF

CONSTRUCTION PLAN

CP-24
SHEET NO.
91
TOTAL SHTS.
1256

387
 CHOPTANK, LLC
 T.M.*13-016.00-009
 D.R.2766-301

161
 CROSSLAND ESTATES, LLC
 T.M.*13-017.00-004
 INS.*20071011-0088942

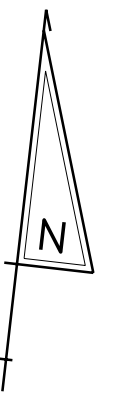
DRAFT

NOT FOR BIDDING

AUGUST 2015

157
 MAPLE GROVE ASSOCIATES, LP
 T.M.*13-022.00-001
 D.R.1271-0190

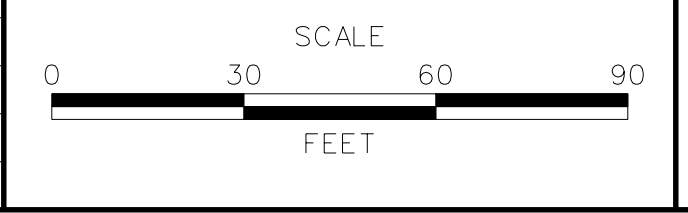
MATCHLINE SEE SHEET CP-24



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ADDENDUMS / REVISIONS	

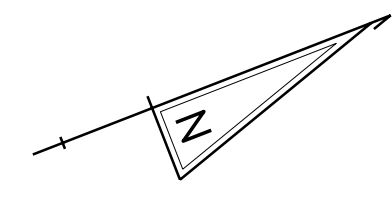


**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

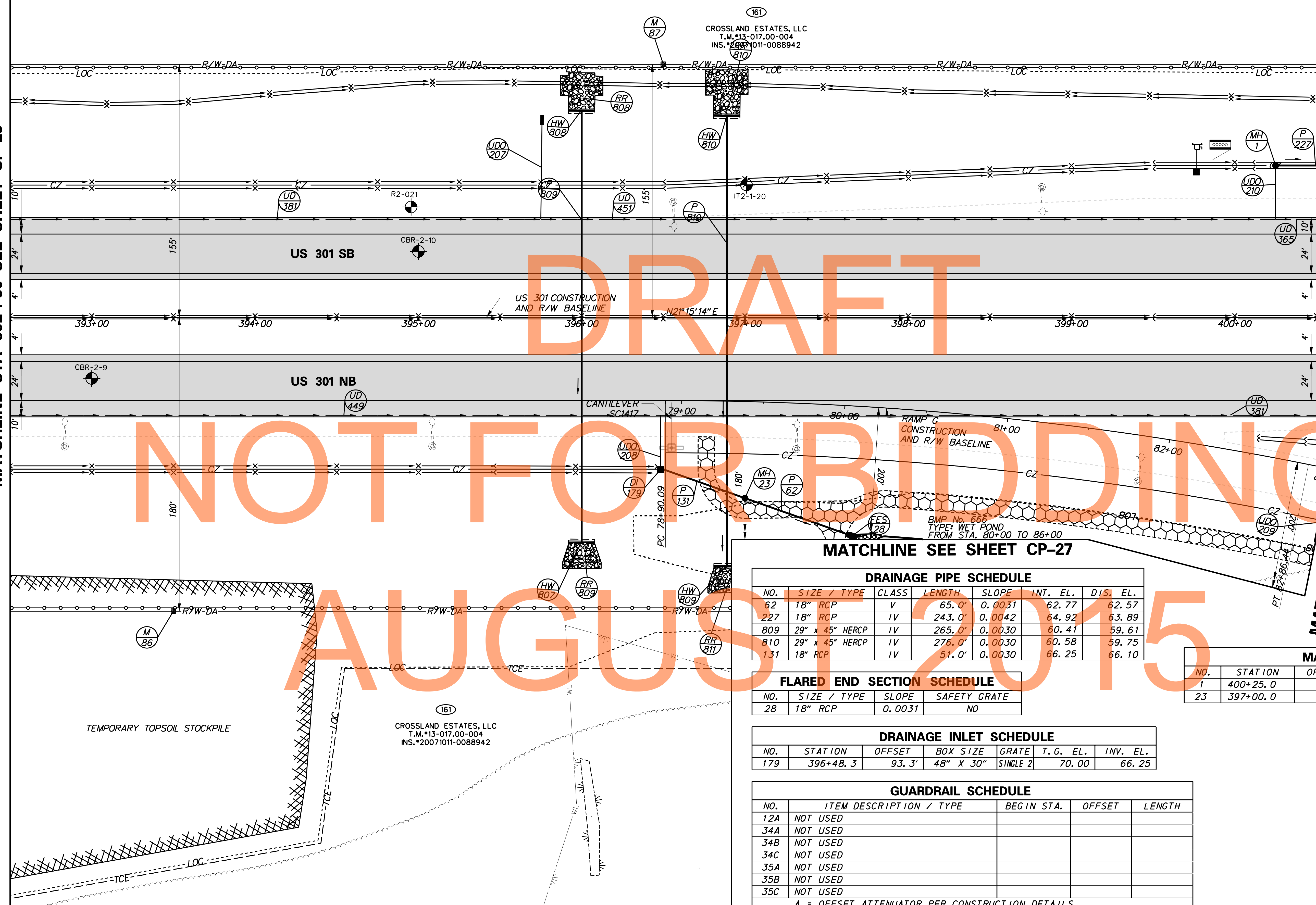
CP-25
SHEET NO.
92
TOTAL SHTS.
1256



MATCHLINE STA 392+50 SEE SHEET CP-25

MATCHLINE STA 400+50 SEE SHEET CP-28

MATCHLINE STA 83+00 SEE SHEET CP-28



MATCHLINE SEE SHEET CP-27

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
62	18" RCP	V	65.0'	0.0031	62.77	62.57
227	18" RCP	IV	243.0'	0.0042	64.92	63.89
809	29" x 45" HERCP	IV	265.0'	0.0030	60.41	59.61
810	29" x 45" HERCP	IV	276.0'	0.0030	60.58	59.75
131	18" RCP	IV	51.0'	0.0030	66.25	66.10

FLARED END SECTION SCHEDULE

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
28	18" RCP	0.0031	NO

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
179	396+48.3	93.3'	48" X 30"	SINGLE 2	70.00	66.25

GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
12A	NOT USED			
34A	NOT USED			
34B	NOT USED			
34C	NOT USED			
35A	NOT USED			
35B	NOT USED			
35C	NOT USED			

A = OFFSET ATTENUATOR PER CONSTRUCTION DETAILS

UNDERDRAIN OUTLETS

NO.	LENGTH	DIS. EL.
207	67	64.06
208	38	67.95
209	28	67.83
210	37	65.63

MANHOLE SCHEDULE

NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
1	400+25.0	-93.0'	ROUND 4'	68.13	64.92
23	397+00.0	110.8'	ROUND 4'	70.00	62.77

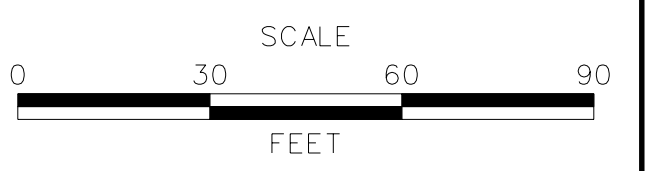
RIPRAP SCHEDULE

NO.	TYPE	AREA (SY)
808	R-4	54
809	R-4	36
810	R-4	66
811	R-4	38

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ADDENDUMS / REVISIONS	



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	T20091303
COUNTY	NEW CASTLE
BRIDGE NO.	
DESIGNED BY:	JAM
CHECKED BY:	SF

CONSTRUCTION PLAN

CP-26
SHEET NO.
93
TOTAL SHTS.
1256

MATCHLINE SEE SHEET CP-26

MATCHLINE SEE SHEET CP-28

MATCHLINE SEE SHEET CP-26

MATCHLINE SEE SHEET CP-30

DRAFT

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AUGUST 2015

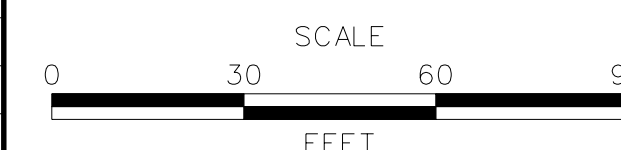
BMP No. 666
TYPE: WET POND
FROM STA. 80+00 TO 86+00

161
CROSSLAND ESTATES, LLC
T.M.#13-017.00-004
INS.#20071011-0088942

NOTES:

1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASINS (TYP)

ADDENDUMS / REVISIONS



US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-27
SHEET NO.
94
TOTAL SHTS.
1256



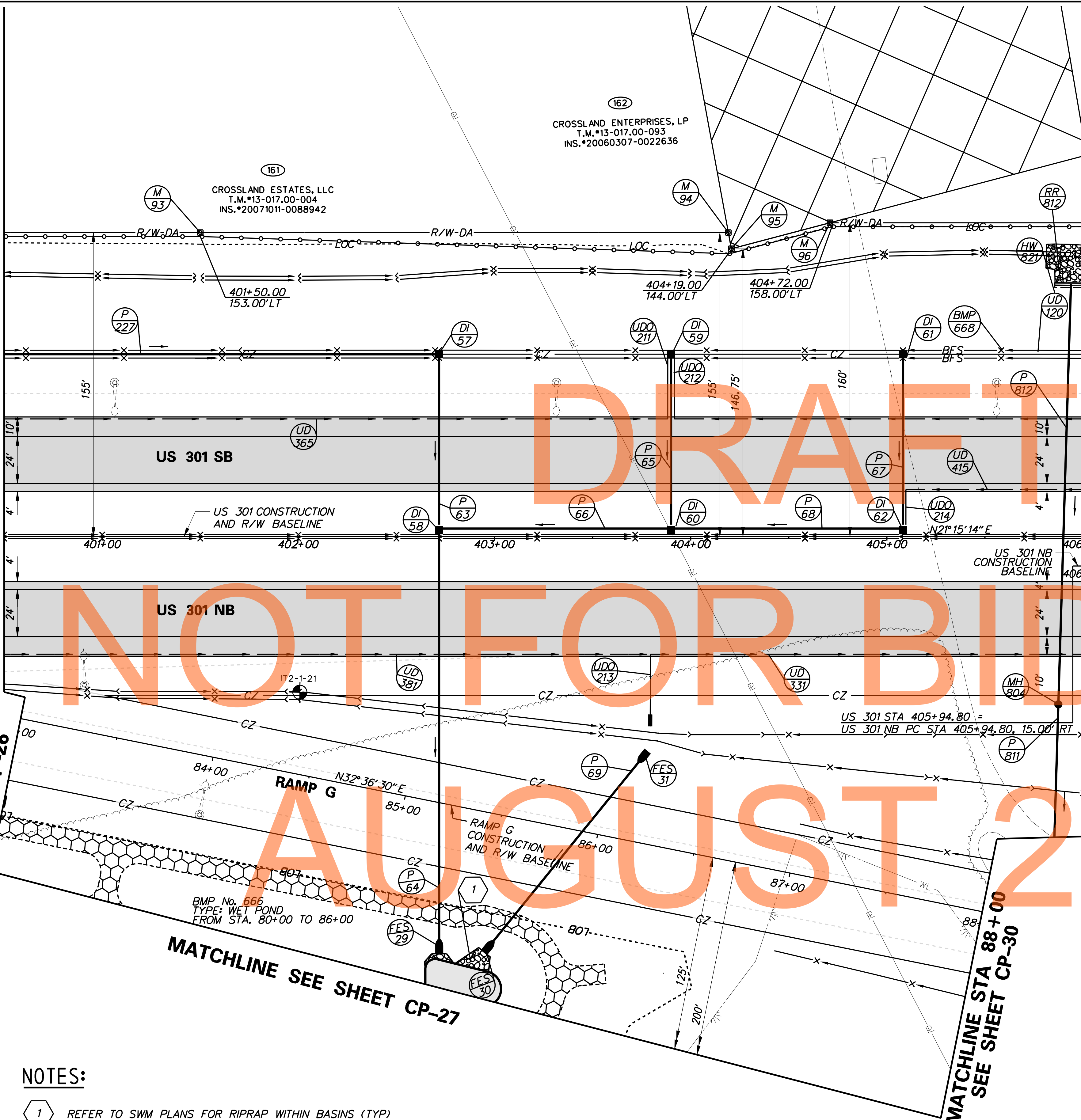
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MATCHLINE STA 400+50 SEE SHEET CP-26

MATCHLINE STA 83+00 SEE SHEET CP-26

161
CROSSLAND ESTATES, LLC
T.M.#13-017.00-004
INS.#20071011-0088942

162
CROSSLAND ENTERPRISES, LP
T.M.#13-017.00-093
INS.#20060307-0022636



DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
63	24" RCP	IV	86.0'	0.0049	63.03	62.61
64	30" RCP	IV	209.0'	0.0030	61.70	61.07
65	24" RCP	IV	86.5'	0.0030	63.00	62.74
66	30" RCP	IV	114.5'	0.0030	62.24	61.90
67	24" RCP	IV	86.0'	0.0030	63.80	63.54
68	24" RCP	IV	114.5'	0.0030	63.34	63.00
69	30" RCP	IV	120.5'	0.0045	63.15	62.61
811	29" x 45" HERCP	IV	192.0'	0.0032	60.69	60.07
812	29" x 45" HERCP	IV	215.0'	0.0032	61.39	60.70

MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
804	405+87.4	85.5'	BOX 66" X 30"	66.50	60.69

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
57	402+71.7	-93.0'	48" X 30"	SINGLE 2	67.10	63.03
58	402+71.7	-3.3'	48" X 48"	SINGLE 2	67.65	61.70
59	403+90.0	-93.0'	34" X 18"	SINGLE 2	66.75	63.00
60	403+90.0	-3.3'	48" X 48"	SINGLE 2	67.29	62.24
61	405+08.3	-93.0'	48" X 30"	SINGLE 2	67.55	63.80
62	405+08.3	-3.3'	48" X 48"	SINGLE 2	67.65	63.34

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
29	30" RCP	0.0030	NO
30	30" RCP	0.0045	NO
31	30" RCP	0.0045	NO

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
211	38	64.65
212	38	64.65
213	40	63.75
214	24	65.65

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
11A	NOT USED			
11B	NOT USED			
11C	NOT USED			
12B	NOT USED			
12C	NOT USED			

A = OFFSET ATTENUATOR PER CONSTRUCTION DETAILS

RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
812	R-4	48

BIOFILTRATION SWALE SCHEDULE				
NO.	START STA./OFFSET	END STA./OFFSET	LENGTH	
668	406+30	-93'	120'	

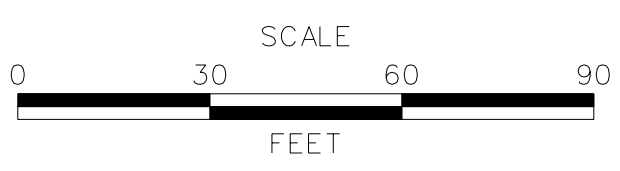
NOTES:

1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASINS (TYP)

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ADDENDUMS / REVISIONS

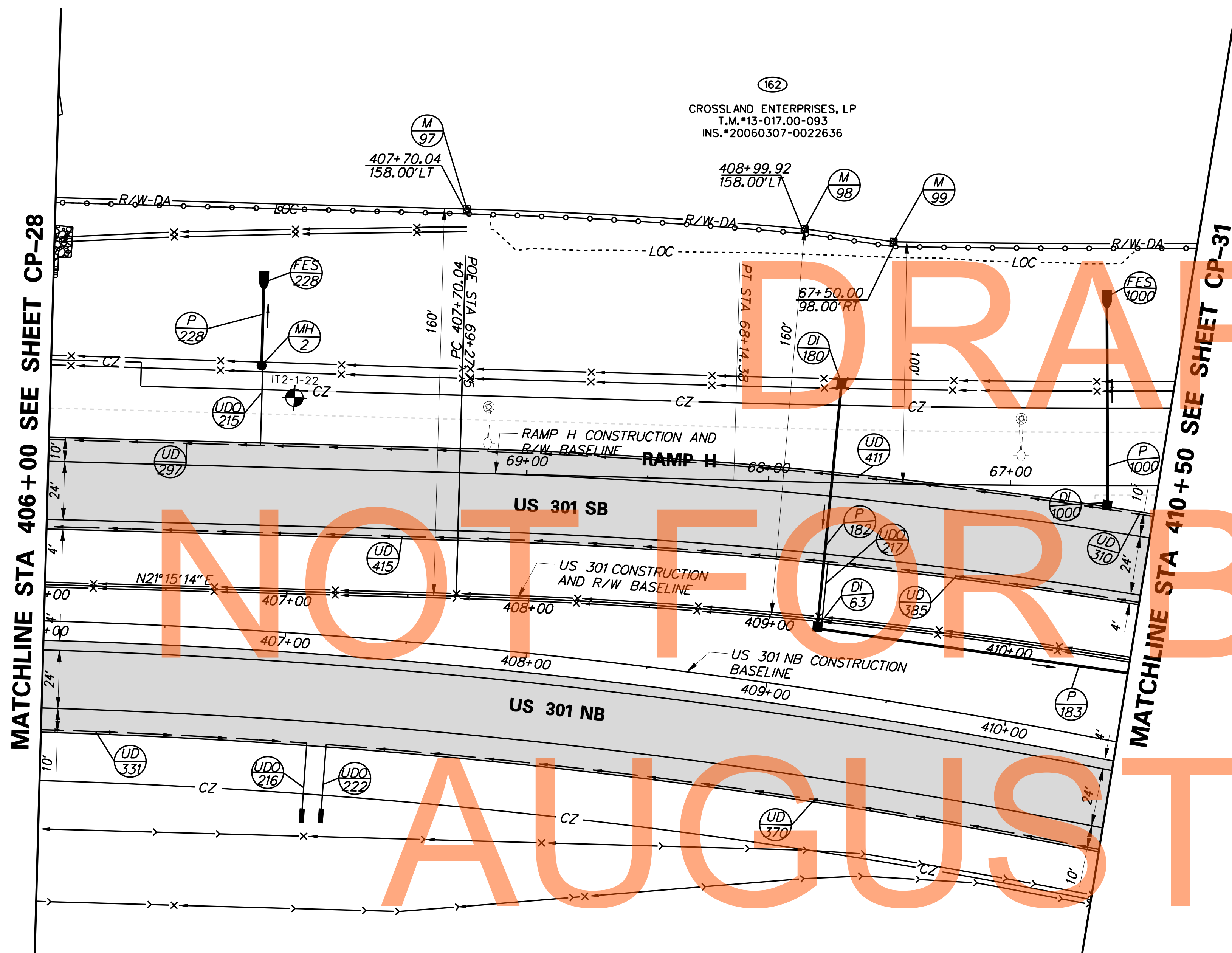


US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT T200911303	BRIDGE NO.	DESIGNED BY: JAM
COUNTY NEW CASTLE	CHECKED BY: SF	

CONSTRUCTION PLAN

CP-28
SHEET NO. 95
TOTAL SHTS. 1256

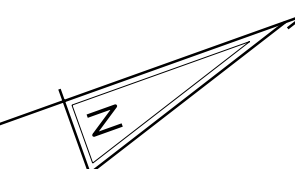


MATCHLINE STA 406+00 SEE SHEET CP-28

MATCHLINE STA 410+50 SEE SHEET CP-31

MATCHLINE SEE SHEET CP-30

162
CROSSLAND ENTERPRISES, LP
T.M.*13-017,00-093
INS.*20060307-0022636



MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
2	406+87.0	-93.0'	ROUND 4'	69.53	65.53

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
182	24" RCP	IV	99.0'	0.0140	67.45	66.06
183	24" RCP	IV	176.0'	0.0018	65.86	65.55
1000	18" RCP	IV	82.0'	0.0249	70.19	68.15
228	18" RCP	IV	29.5'	0.0293	65.53	64.68

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
63	409+20.0	3.3'	48" X 48"	SINGLE 2	69.82	65.86
180	409+20.0	-97.8'	34" X 24"	SINGLE 2	71.91	67.45
1000	410+31.0	-62.9'	34" X 24"	SINGLE 2	74.94	70.19

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
228	18" RCP	0.0293	NO
1000	18" RCP	0.0249	NO

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
215	37	67.03
216	36	66.00
217	32	67.70
222	35	66.07

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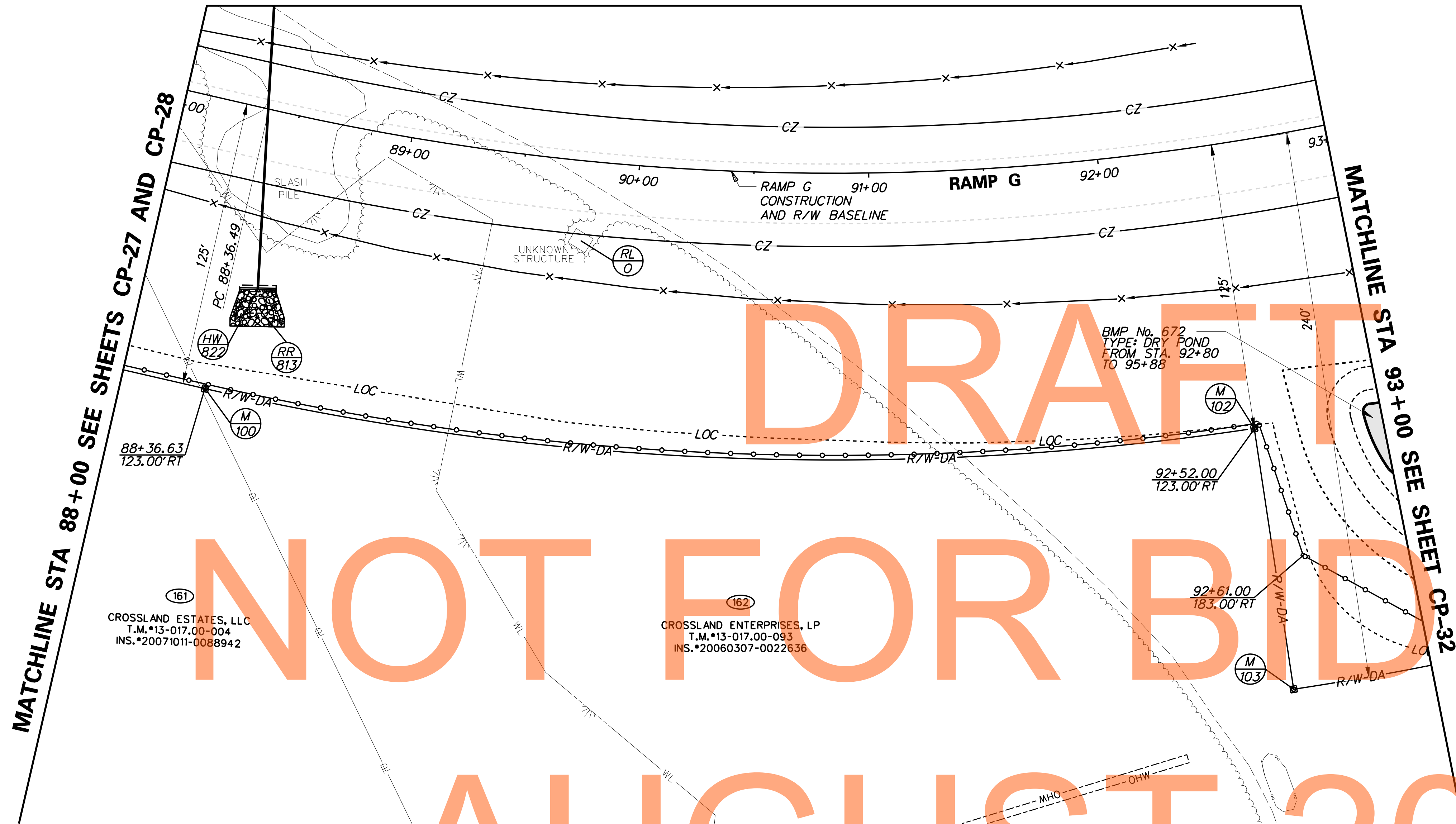
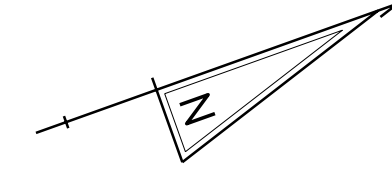
<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS	<p>SCALE</p> <p>FEET</p>	<p>US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD</p>	CONTRACT	BRIDGE NO.	<p>CONSTRUCTION PLAN</p>	SHEET NO.
					T20091303		DESIGNED BY: JAM
				COUNTY	CHECKED BY: SF		TOTAL SHTS.
				NEW CASTLE			1256

NOT FOR BIDDING

AUGUST 2015

DRAFT

MATCHLINE SEE SHEET CP-28 AND CP-29



RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
813	R-4	36

DRAFT
NOT FOR BIDDING
AUGUST 2015

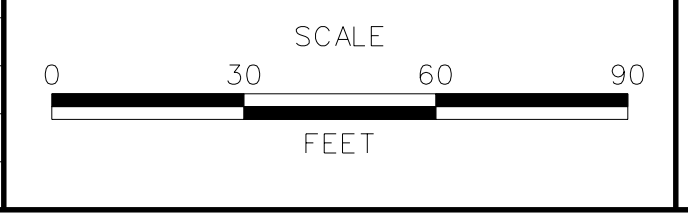
MATCHLINE STA 88+00 SEE SHEETS CP-27 AND CP-28

MATCHLINE STA 93+00 SEE SHEET CP-32

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ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

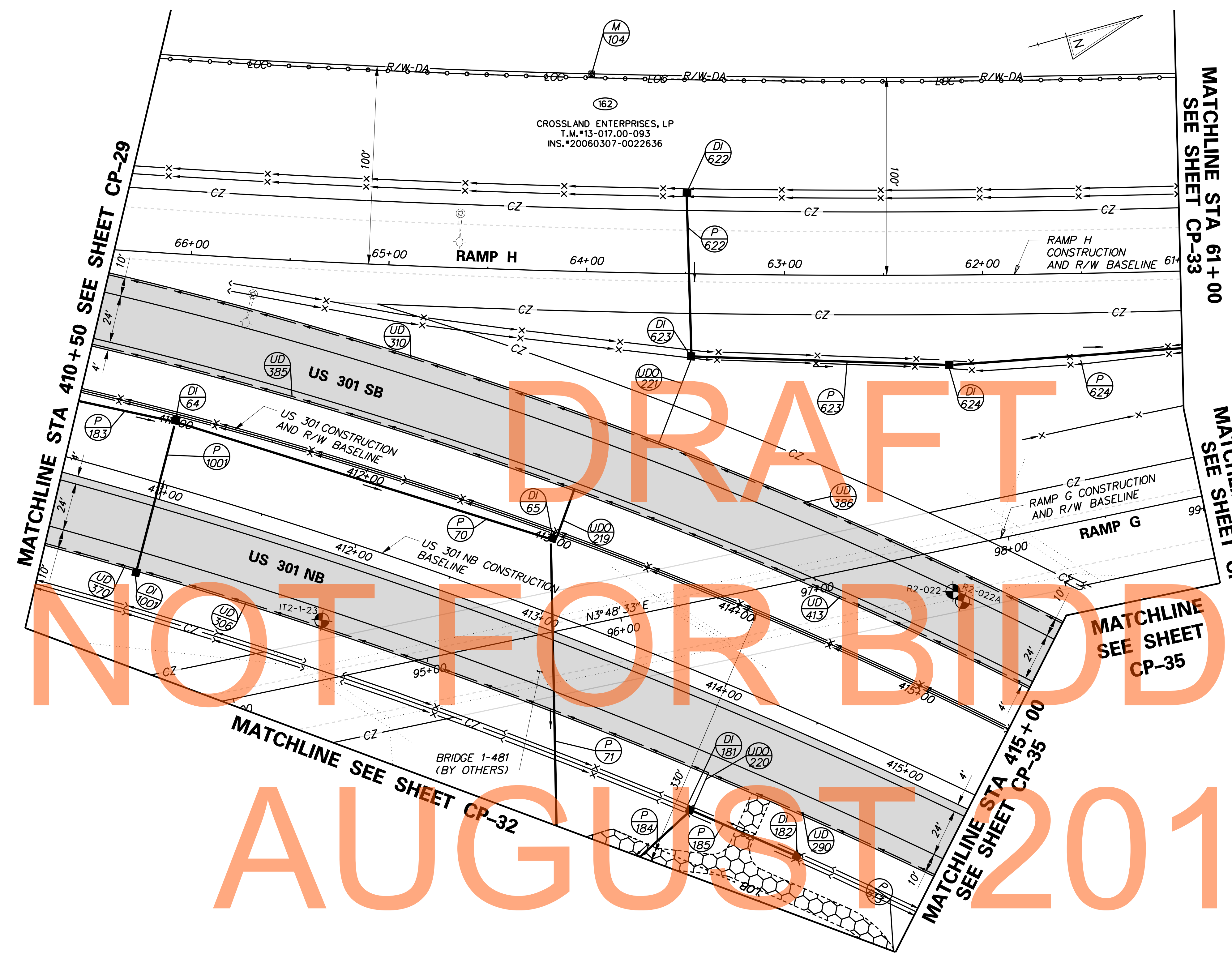
CP-30
SHEET NO.
97
TOTAL SHTS.
1256

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
70	24" RCP	IV	196.0'	0.0018	65.35	65.01
71	24" RCP	IV	167.5'	0.0018	64.81	64.51
184	18" RCP	IV	51.5'	0.0034	65.00	64.82
185	18" RCP	IV	55.0'	0.0037	65.98	65.78
622	18" RCP	IV	79.0'	0.0030	70.55	70.31
623	18" RCP	IV	127.0'	0.0030	70.06	69.68
624	24" RCP	IV	120.0'	0.0030	69.18	68.82
1001	18" RCP	IV	76.0'	0.0022	66.04	65.87

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
64	411+00.0	3.3'	48" X 48"	SINGLE 2	70.72	65.35
65	413+00.0	3.3'	48" X 48"	SINGLE 2	71.72	64.81
181	414+18.1	105.3'	48" X 30"	SINGLE 2	69.83	65.00
182	414+80.0	104.6'	48" X 30"	SINGLE 2	69.83	65.98
622	63+50.0	41.0'	34" X 24"	SINGLE 2	75.82	70.55
623	63+46.7	-41.6'	48" X 30"	SINGLE 2	73.58	70.06
624*	62+17.0	-45.4'	34" X 18"	SINGLE 2	73.00	69.18
1001	411+00.0	83.9'	34" X 24"	SINGLE 2	70.71	66.04

* INLET ROTATED 90 DEGREES

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
219	32	69.60
220	25	67.48
221	51	71.08

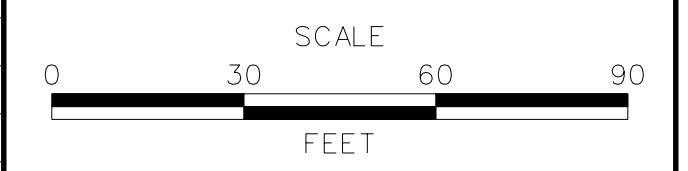


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ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

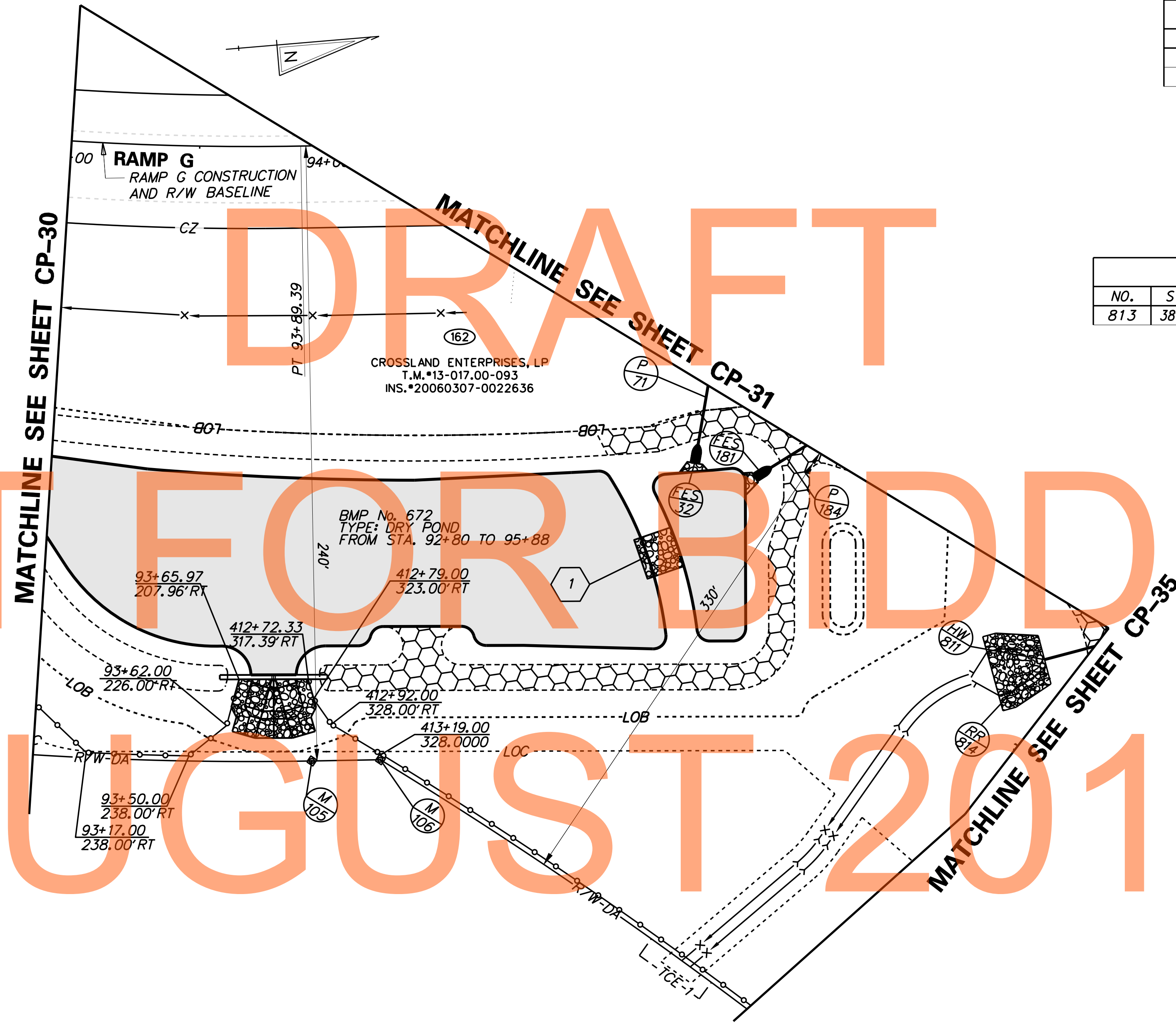
CONSTRUCTION PLAN

CP-31
SHEET NO.
98
TOTAL SHTS.
1256

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
32	24" RCP	0.0018	NO
181	18" RCP	0.0034	NO

RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
814	R-4	59

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
813	38" x 60" HERCP	IV	52.0'	0.0026	64.46	64.32



NOTES:

1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASINS (TYP)

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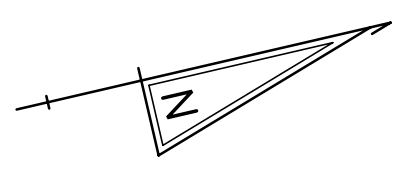
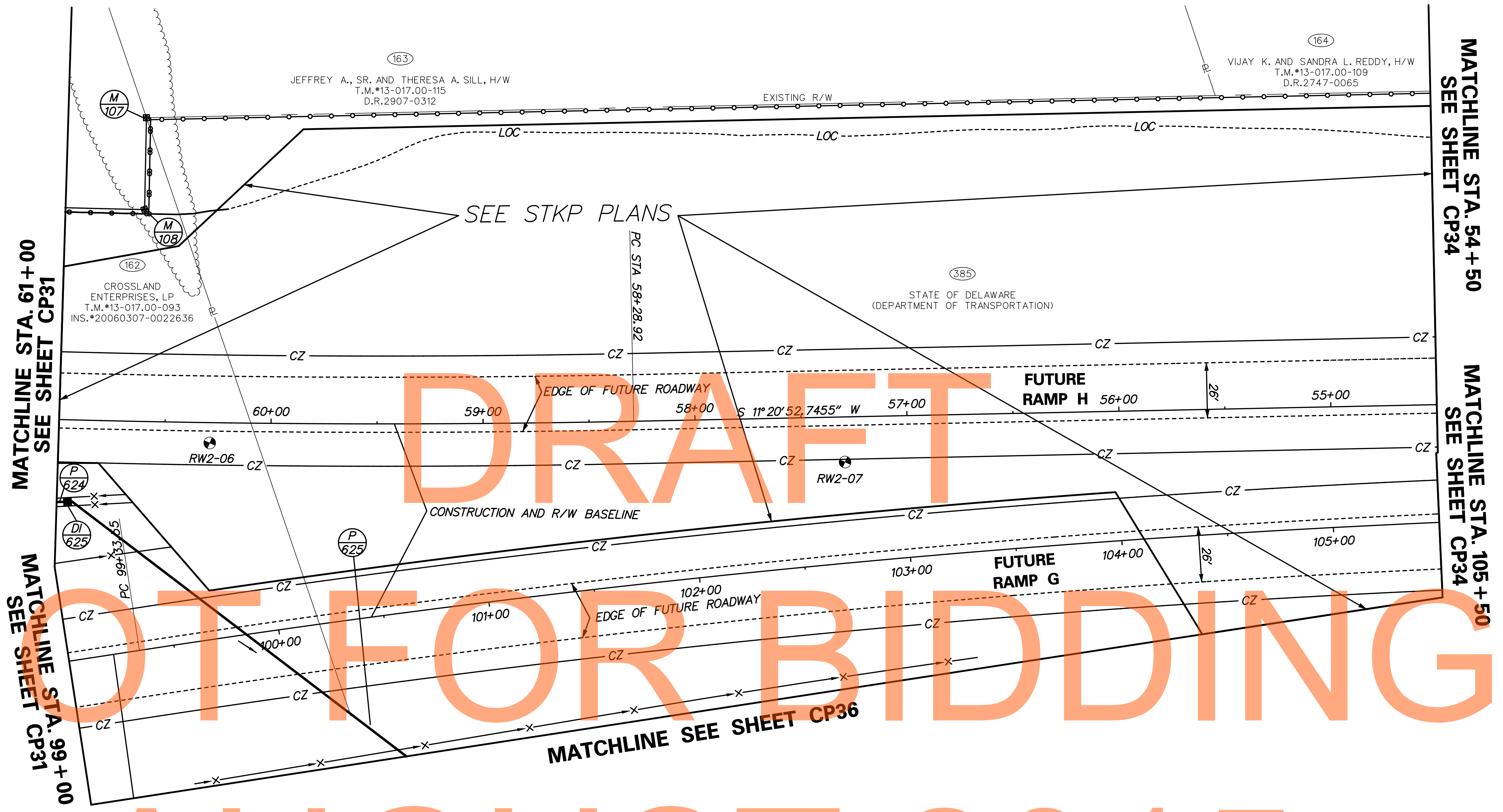
<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	<p>ADDENDUMS / REVISIONS</p> <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>							<p>SCALE</p>	<p>US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD</p>	<p>CONTRACT</p> <p>T20091303</p>	<p>BRIDGE NO.</p>	<p>CONSTRUCTION PLAN</p>	<p>CP-32</p>
<p>COUNTY</p> <p>NEW CASTLE</p>	<p>DESIGNED BY:</p> <p>JAM</p>	<p>CHECKED BY:</p> <p>SF</p>	<p>SHEET NO.</p> <p>99</p>										

TOTAL SHTS.
1256

DRAFT

NOT FOR BIDDING

AUGUST 2015

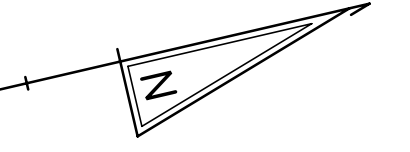


DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
625	24" DIP	52	270.0'	0.0060	68.62	67.00

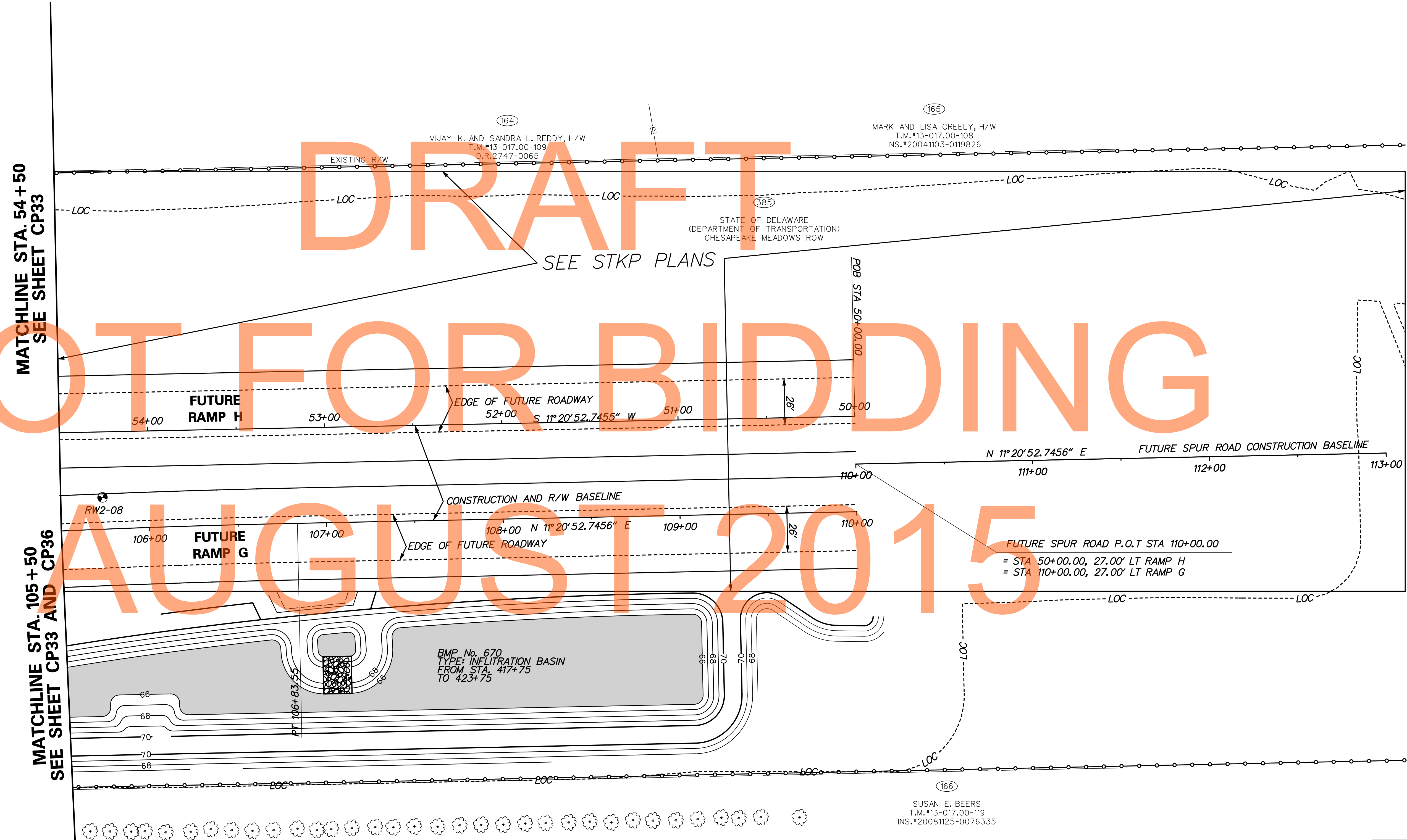
DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T. G. EL.	INV. EL.
625	60+95.00	-38.63	48" X 30"	2	76.36	68.62

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT T200911303	BRIDGE NO. 	CONSTRUCTION PLAN	CP-33
				COUNTY NEW CASTLE	DESIGNED BY: JL CHECKED BY: MT		SHEET NO. 100 TOTAL SHTS. 1256



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NOT FOR BIDDING
AUGUST 2015



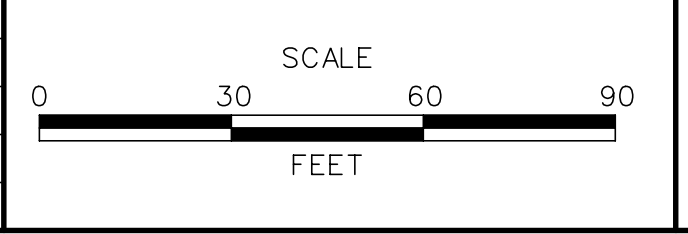
MATCHLINE STA. 54+50
SEE SHEET CP33

MATCHLINE STA. 105+50
SEE SHEET CP33 AND CP36

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ADDENDUMS / REVISIONS	

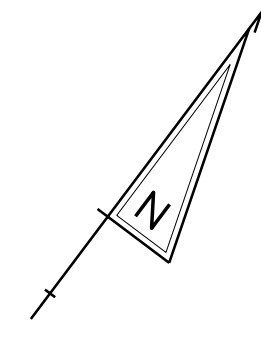


**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	JL
COUNTY	CHECKED BY:	MT
NEW CASTLE		

CONSTRUCTION PLAN

CP-34
SHEET NO.
101
TOTAL SHTS.
1256

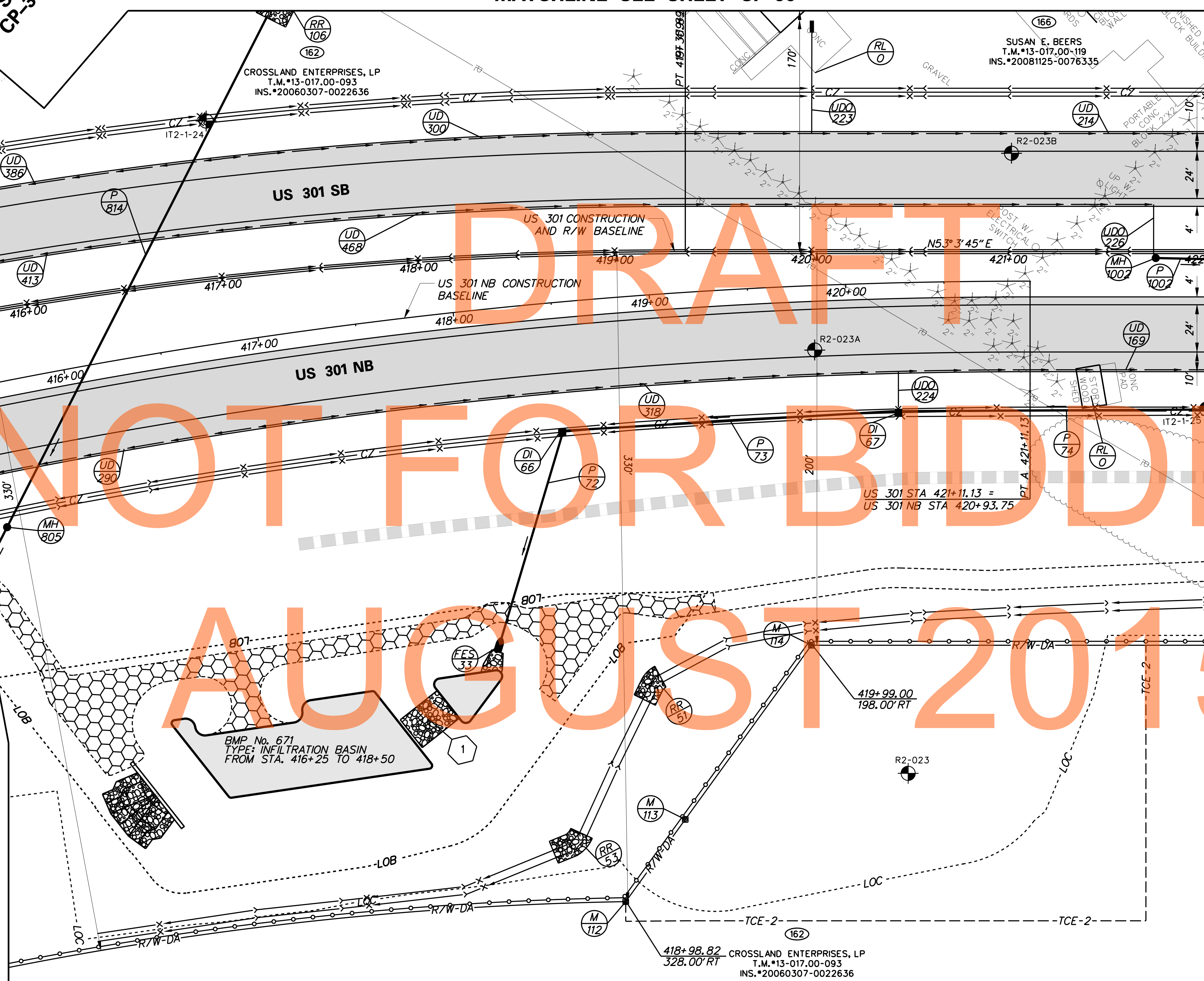


MATCHLINE SEE SHEET CP-36

MATCHLINE SEE SHEETS CP-31 AND CP-33

MATCHLINE STA 415+50 SEE SHEETS CP-31 AND CP-32

MATCHLINE STA 422+00 SEE SHEET CP-37



DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
72	24" RCP	V	109.5'	0.0030	64.68	64.36
73	24" RCP	IV	167.5'	0.0030	65.38	64.88
74	24" RCP	IV	167.0'	0.0030	66.09	65.58
814	38" x 60" HERCP	IV	291.0'	0.0026	65.22	64.47
1002	18" RCP	IV	38.5'	0.0055	67.82	67.62

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
66	418+70.5	90.8'	48" X 48"	SINGLE 2	70.03	64.68
67	420+44.2	81.9'	48" X 48"	SINGLE 2	71.92	65.38

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
33	24" RCP	0.0030	NO

MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
805	415+70.4	109.9'	BOX 75" X 68"	73.00	64.46
1002	421+75.0	3.3'	ROUND 4'	71.07	67.82

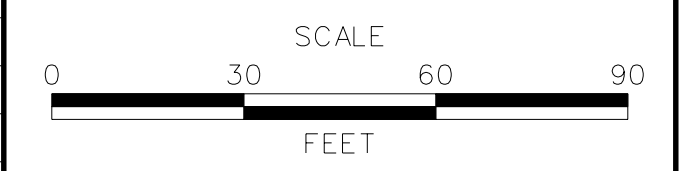
UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
223	60	68.00
224	24	69.46
226	31	68.82

RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
51	R-4	20
53	R-4	25
106	R-4	35

NOTE:
 1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASINS (TYP)

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ADDENDUMS / REVISIONS



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	T20091303
COUNTY	NEW CASTLE
BRIDGE NO.	
DESIGNED BY:	JAM
CHECKED BY:	SF

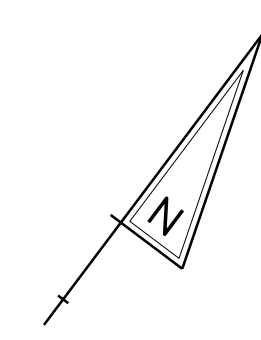
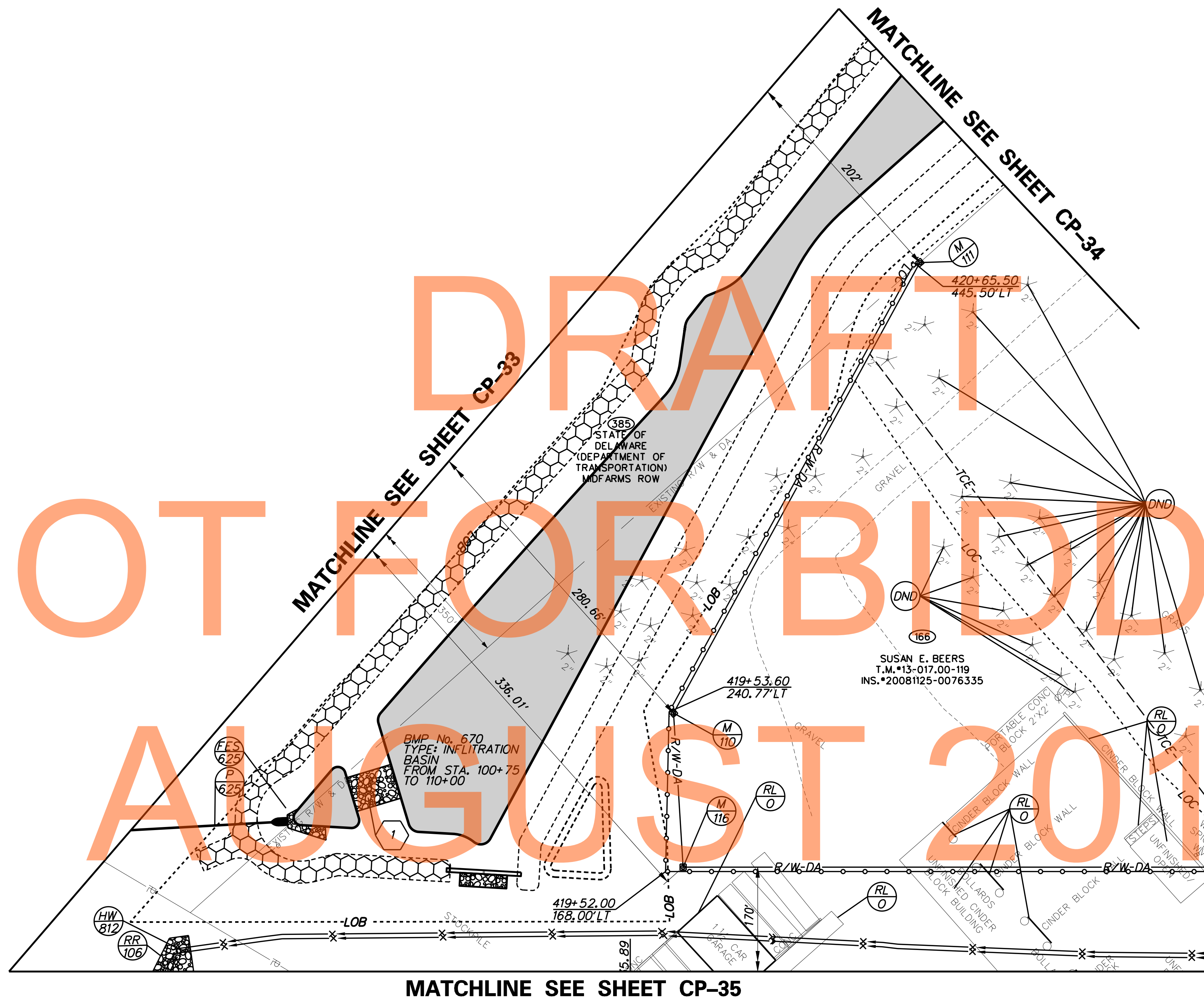
CONSTRUCTION PLAN

CP-35
SHEET NO.
102
TOTAL SHTS.
1256

DRAFT

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AUGUST 2015



FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
625	24" DIP	0.0060	NO

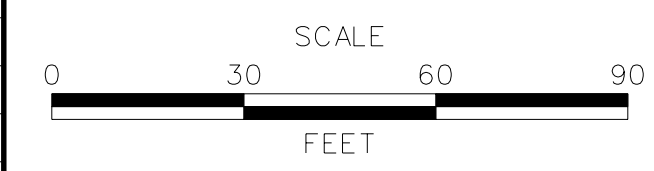
NOTES:

1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASINS (TYP)

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ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-36
SHEET NO.
103
TOTAL SHTS.
1256

MATCHLINE SEE SHEET CP-40

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
34	18" RCP	0.0022	NO
66	24" X38" HERCP	0.0030	NO

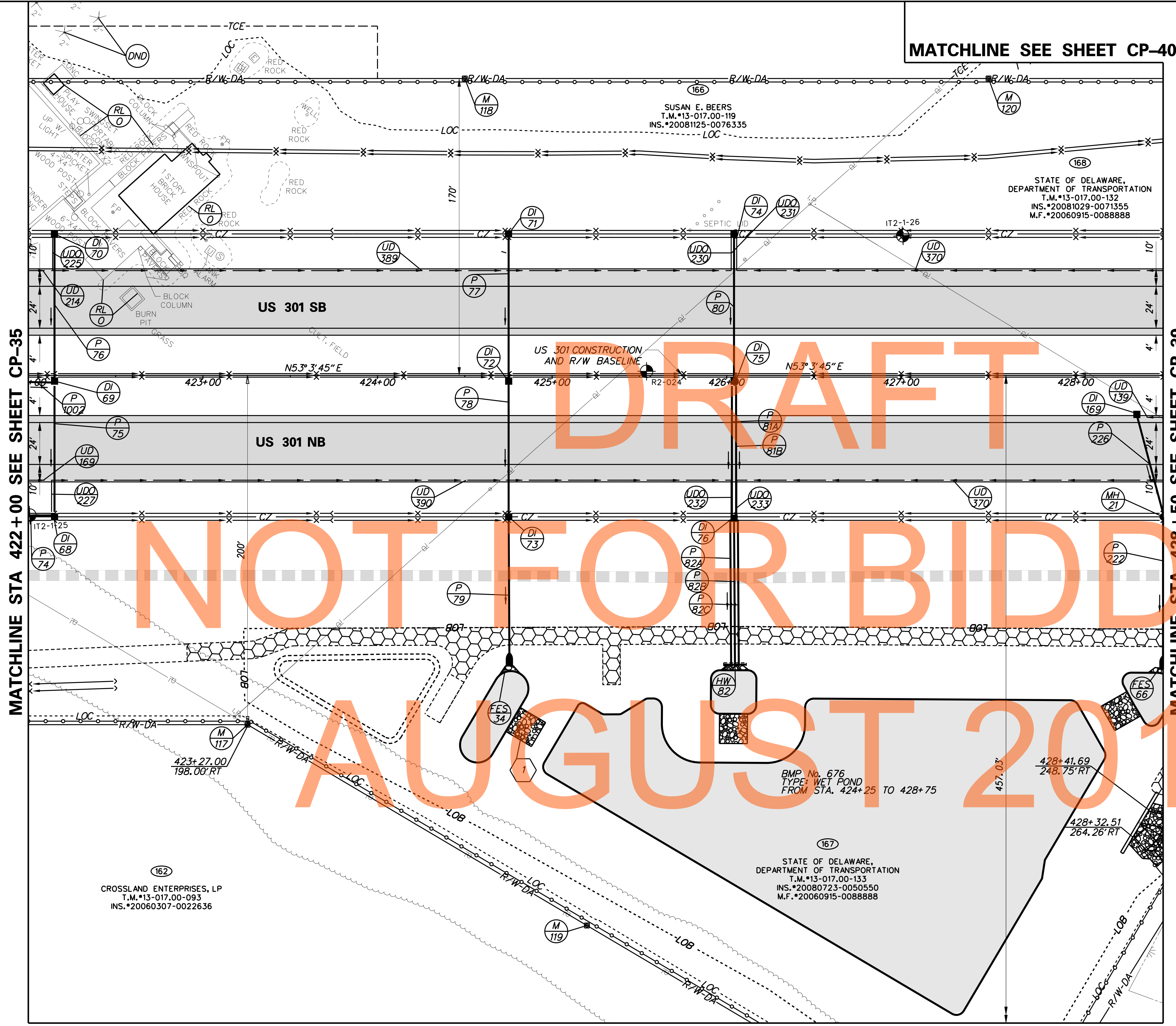
DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
75	24" RCP	IV	72.5'	0.0030	66.50	66.29
76	24" RCP	IV	82.0'	0.0030	66.95	66.70
77	18" RCP	V	83.0'	0.0022	66.55	66.37
78	18" RCP	IV	76.5'	0.0022	66.37	66.20
79	18" RCP	IV	79.0'	0.0022	66.20	66.02
80	15" RCP	V	82.5'	0.0028	66.69	66.46
81A	15" RCP	V	74.0'	0.0028	66.46	66.25
81B	15" RCP	V	74.0'	0.0028	66.46	66.25
82A	15" RCP	V	82.0'	0.0028	66.25	66.02
82B	15" RCP	V	82.0'	0.0028	66.25	66.02
82C	15" RCP	V	82.0'	0.0028	66.25	66.02
222	24" X 38" HERCP	IV	79.5'	0.0030	66.26	66.02
226	18" RCP	IV	58.0'	0.0240	68.39	67.00

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T. G. EL.	INV. EL.
68	422+15.0	81.0'	48" X 48"	SINGLE 2	71.11	66.09
69	422+15.0	3.3'	48" X 48"	SINGLE 2	70.87	66.50
70	422+15.0	-81.0'	48" X 30"	SINGLE 2	70.95	66.95
71	424+75.1	-81.0'	34" X 18"	SINGLE 2	69.65	66.55
72	424+75.1	3.3'	34" X 18"	SINGLE 2	69.84	66.37
73	424+75.1	81.0'	34" X 18"	SINGLE 2	69.81	66.20
74	426+04.2	-81.0'	34" X 18"	SINGLE 2	69.18	66.69
75	426+04.2	3.3'	66" X 48"	SINGLE 2	69.47	66.46
76	426+04.2	81.8'	86" X 48"	SINGLE 2	69.18	66.25
169	428+35.0	21.1'	34" X 24"	SINGLE 2	73.11	68.39

MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T. G. EL.	INV. EL.
21	428+50.0	81.0'	BOX 66" X 48"	70.42	66.26

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
225	26	68.45
227	24	68.61
230	26	66.69
231	26	66.69
232	27	66.69
233	27	66.69

NOTES:
 1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASINS (TYP)



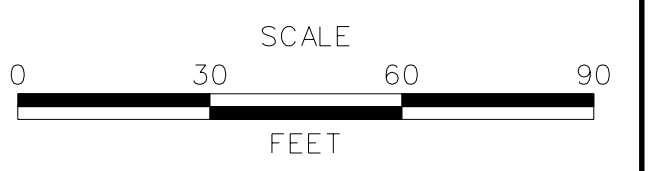
MATCHLINE STA 422+00 SEE SHEET CP-35

MATCHLINE STA 428+50 SEE SHEET CP-39

MATCHLINE SEE SHEET CP-38



ADDENDUMS / REVISIONS	



US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-37
SHEET NO.
104
TOTAL SHTS.
1256

MATCHLINE SEE SHEETS CP-37 AND CP-39

BMP No. 676
 TYPE: WET POND
 FROM STA. 424+25
 TO 428+75

457.03'
 427+56.00
 452.00' RT

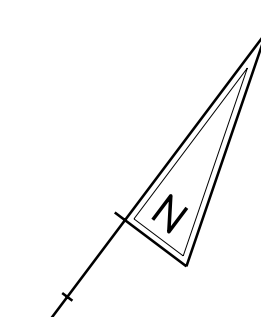
DRAFT

STATE OF DELAWARE,
 DEPARTMENT OF TRANSPORTATION
 T.M.*13-017.00-133
 INS.*20080723-0050550
 M.F.*20060915-0088888


162
 CROSSLAND ENTERPRISES, LP
 T.M.*13-017.00-093
 INS.*20060307-0022636

170
 STATE OF DELAWARE,
 DEPARTMENT OF TRANSPORTATION
 T.M.*13-017.00-129
 INS.*20090213-0007627
 M.F.*20051208-0127162

NOT FOR BIDDING
AUGUST 2015

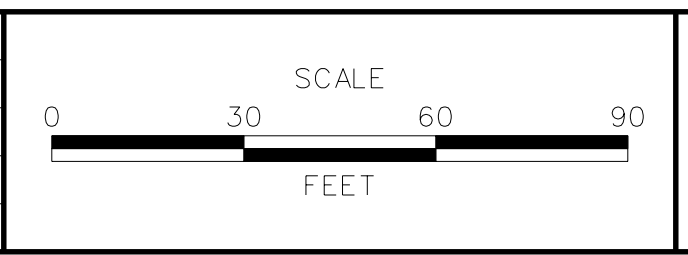


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DELAWARE
 DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	



US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-38
SHEET NO.
105
TOTAL SHTS.
1256

MATCHLINE SEE SHEET CP-40

BIOFILTRATION SWALE SCHEDULE					
NO.	START STA. /OFFSET	END STA. /OFFSET	LENGTH		
681	431+09	81'	429+75	81'	135'

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
83	18" RCP	V	79.0'	0.0030	68.25	68.01
84	19" X 30" HERCP	IV	74.0'	0.0047	67.65	67.30
85	19" X 30" HERCP	IV	119.0'	0.0053	67.30	66.67
86A	18" RCP	IV	159.5'	0.0047	68.68	67.93
86B	18" RCP	IV	159.5'	0.0047	68.68	67.93
87	18" RCP	V	79.0'	0.0030	69.86	69.62
88	18" RCP	IV	76.0'	0.0434	72.92	69.62
89A	18" RCP	IV	159.0'	0.0034	69.42	68.88
89B	18" RCP	IV	159.0'	0.0034	69.42	68.88
93	18" RCP	IV	294.0'	0.0060	72.38	70.61
815	19" X 30" HERCP	IV	275.0'	0.0020	64.50	63.95
816	19" X 30" HERCP	IV	280.0'	0.0020	63.95	63.39

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T. G. EL.	INV. EL.
77	429+73.3	-81.0'	34" X 18"	SINGLE 2	71.00	68.25
78	429+73.3	0.0'	66" X 66"	SINGLE 2	71.13	67.65
79	429+73.3	81.0'	48" X 48"	SINGLE 2	71.86	67.30
80	431+38.0	0.0'	66" X 66"	SINGLE 2	72.94	68.68
81	433+02.0	-81.0'	34" X 18"	SINGLE 2	72.61	69.86
82	433+02.0	0.0'	66" X 66"	SINGLE 2	74.51	69.42
83	433+02.0	81.0'	34" X 18"	SINGLE 2	76.17	72.92

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
13A	END TREATMENT ATT, TYPE 1	433+98.3	A	50.00'
13B	GALVANIZED SBGR, TYPE 1	434+48.3	62.92'	1550.00'

A = OFFSET ATTENUATOR PER CONSTRUCTION DETAILS

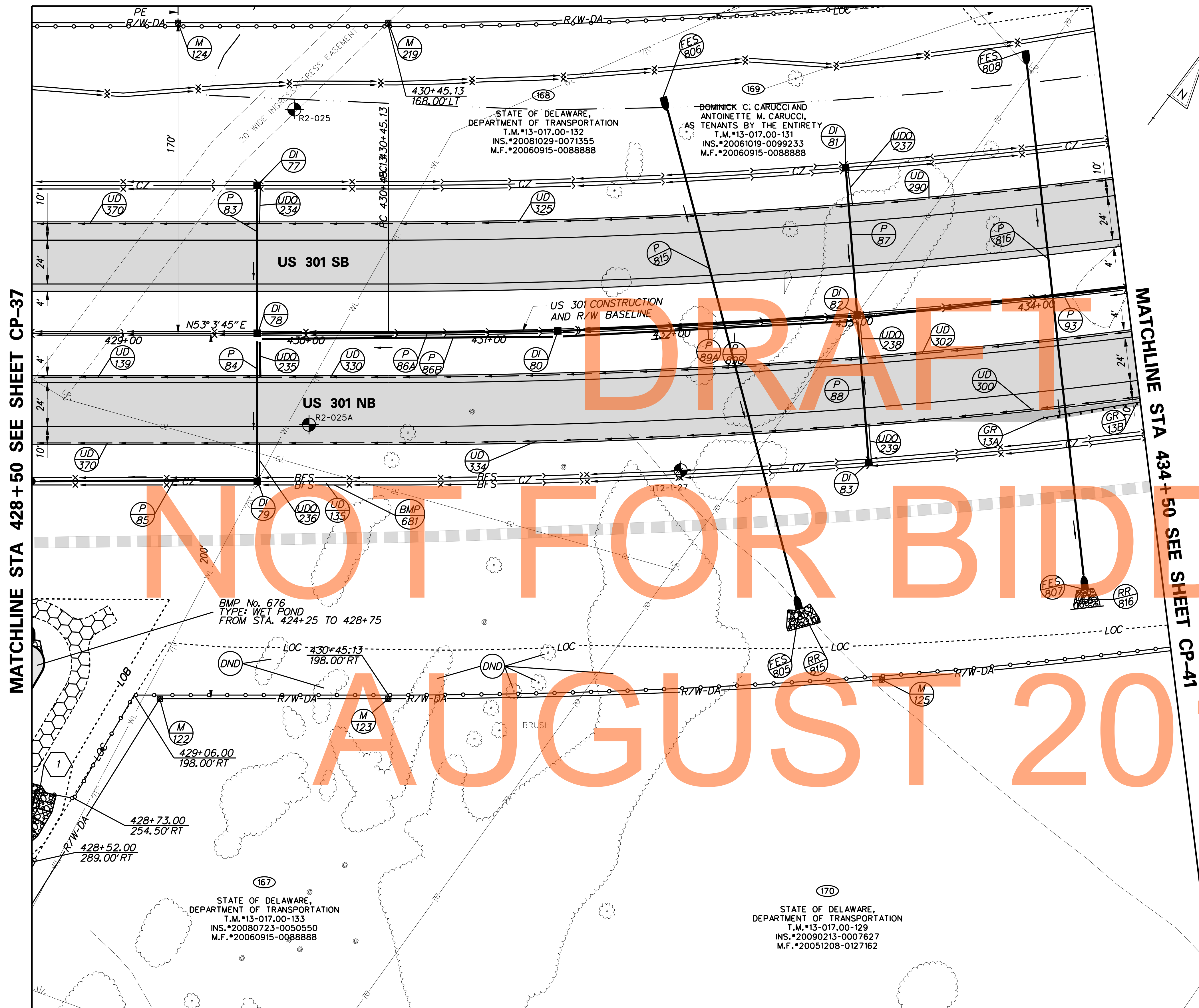
FLARED END SECTION SCHEDULE				
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE	
805	19" X 30" HERCP	0.0020	YES	
806	19" X 30" HERCP	0.0020	YES	
807	19" X 30" HERCP	0.0020	YES	
808	19" X 30" HERCP	0.0020	YES	

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
234	26	68.50
235	25	69.01
236	24	69.36
237	26	70.11
238	25	72.40
239	26	73.67

RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
815	R-4	18
816	R-4	14

NOTES:

1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASINS (TYP)



MATCHLINE SEE SHEET CP-38

ADDENDUMS / REVISIONS



US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-39
SHEET NO.
106
TOTAL SHTS.
1256

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166
 SUSAN E. BEERS
 T.M.#13-017.00-119
 INS.#20081125-0076335

169
 DOMINICK C. CARUCCI AND ANTOINETTE M. CARUCCI, AS TENANTS BY THE ENTIRETY
 T.M.#13-017.00-131
 INS.#20061019-0099233
 M.F.#20060915-0088888

DRAFT

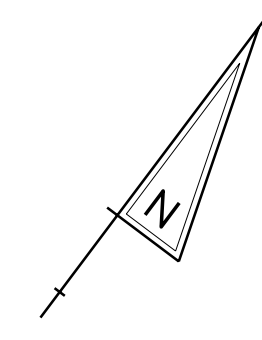
NOT FOR BIDDING

TEMPORARY TOPSOIL STOCKPILE

168
 STATE OF DELAWARE,
 DEPARTMENT OF TRANSPORTATION
 T.M.#13-017.00-132
 INS.#20081029-0071355
 M.F.#20060915-0088888

MATCHLINE SEE SHEETS CP-37 AND CP-39

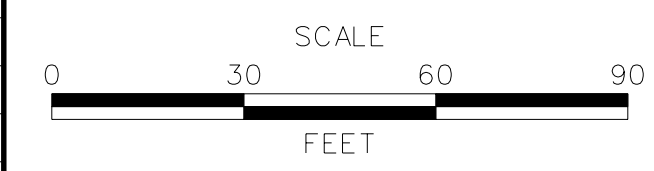
AUGUST 2015



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ADDENDUMS / REVISIONS	



**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-40
SHEET NO.
107
TOTAL SHTS.
1256

MATCHLINE SEE SHEET CP-42

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
36A	NOT USED			
36B	NOT USED			
36C	NOT USED			
37A	END ANCHORAGE TYPE 31	435+88.4	-62.92'	12.50'
37B	GALVANIZED SBGR, TYPE 1	435+02.3	-62.92'	1312.50'

A = OFFSET ATTENUATOR PER CONSTRUCTION DETAILS

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
84	436+00.0	-62.9'	48" X 30"	SINGLE 2	77.59	72.76
85	436+00.0	3.3'	48" X 30"	SINGLE 2	77.34	72.38
86	436+00.0	62.9'	72" X 24"	DOUBLE 2	81.58	75.69
87	437+25.0	-62.9'	48" X 30"	SINGLE 2	78.79	73.62
88	438+45.0	-62.9'	48" X 30"	SINGLE 2	79.93	73.86
89	439+70.0	-62.9'	48" X 30"	SINGLE 2	81.12	74.42
167	439+02.0	21.1'	34" X 24"	SINGLE 2	83.27	78.73

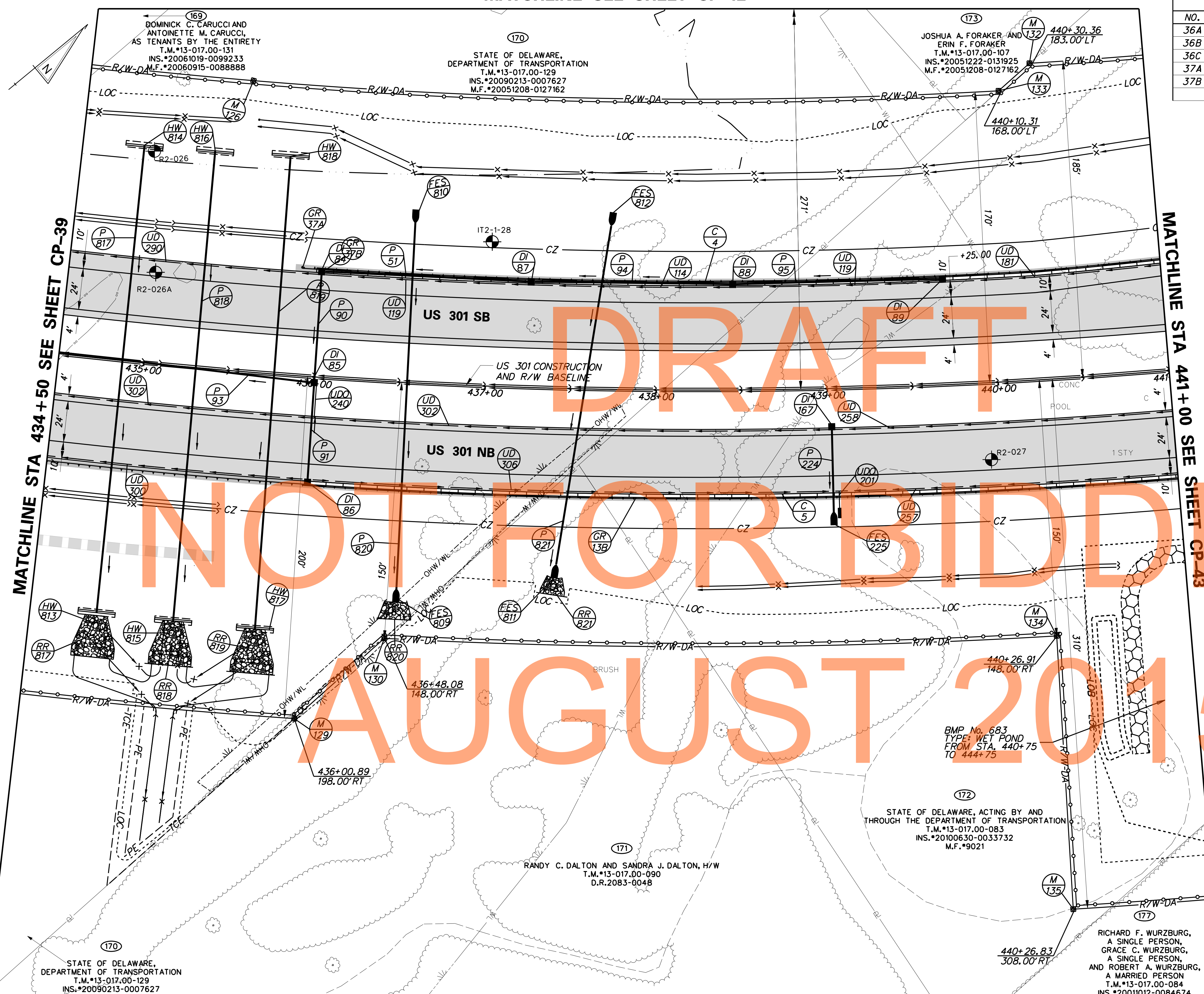
DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
51	18" RCP	IV	119.0'	0.0030	73.32	72.96
90	18" RCP	IV	63.0'	0.0030	72.76	72.58
91	18" RCP	IV	56.5'	0.0500	75.69	72.87
94	18" RCP	IV	114.0'	0.0030	73.86	73.52
95	18" RCP	IV	119.0'	0.0030	74.42	74.06
224	18" RCP	IV	51.0'	0.0127	78.73	78.08
817	45" x 73" RCPA	IV	275.0'	0.0020	63.79	63.24
818	45" x 73" RCPA	IV	275.0'	0.0020	63.75	63.20
819	45" x 73" RCPA	IV	277.0'	0.0020	63.79	63.24
820	19" x 30" HERCP	IV	230.0'	0.0020	63.95	63.49
821	19" x 30" HERCP	IV	200.0'	0.0020	64.50	64.10

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
4	CONCRETE CURB AND GUTTER, TYPE 1-4	494.00
5	CONCRETE CURB AND GUTTER, TYPE 1-4	513.00

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
225	18" RCP	0.0127	NO
809	19" x 30" HERCP	0.0020	YES
810	19" x 30" HERCP	0.0020	YES
811	19" x 30" HERCP	0.0020	YES
812	19" x 30" HERCP	0.0020	YES

RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
817	R-4	55
818	R-4	55
819	R-4	55
820	R-4	19
821	R-4	14

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
201	19	80.00
240	25	75.25

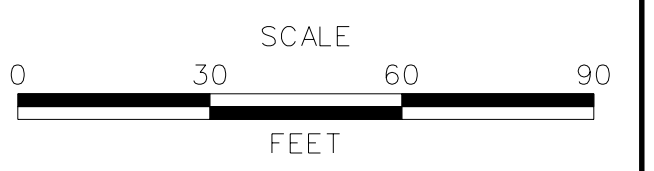


DRAFT
NOT FOR BIDDING
AUGUST 2015

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ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT T20091303	BRIDGE NO.	
COUNTY NEW CASTLE	DESIGNED BY:	JW
	CHECKED BY:	SF

CONSTRUCTION PLAN

CP-41
SHEET NO. 108
TOTAL SHTS. 1256

DRAFT
NOT FOR BIDDING
AUGUST 2015

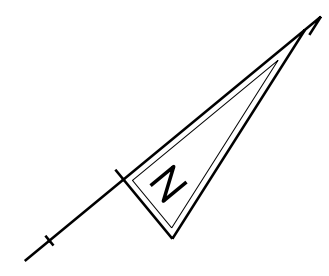
169
DOMINICK C. CARUCCI AND
ANTOINETTE M. CARUCCI,
AS TENANTS BY THE ENTIRETY
T.M.#13-017.00-131
INS.#20061019-0099233
M.F.#20060915-0088888

170
STATE OF DELAWARE,
DEPARTMENT OF TRANSPORTATION
T.M.#13-017.00-129
INS.#20090213-0007627
M.F.#20051208-0127162

173
JOSHUA A. FORAKER AND
ERIN F. FORAKER
T.M.#13-017.00-107
INS.#20051222-0131925
M.F.#20051208-0127162

MATCHLINE SEE SHEET CP40

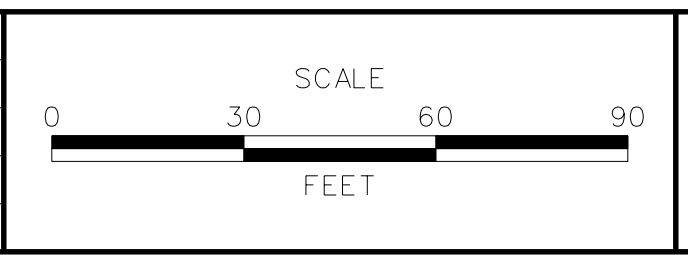
MATCHLINE SEE SHEET CP41



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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	



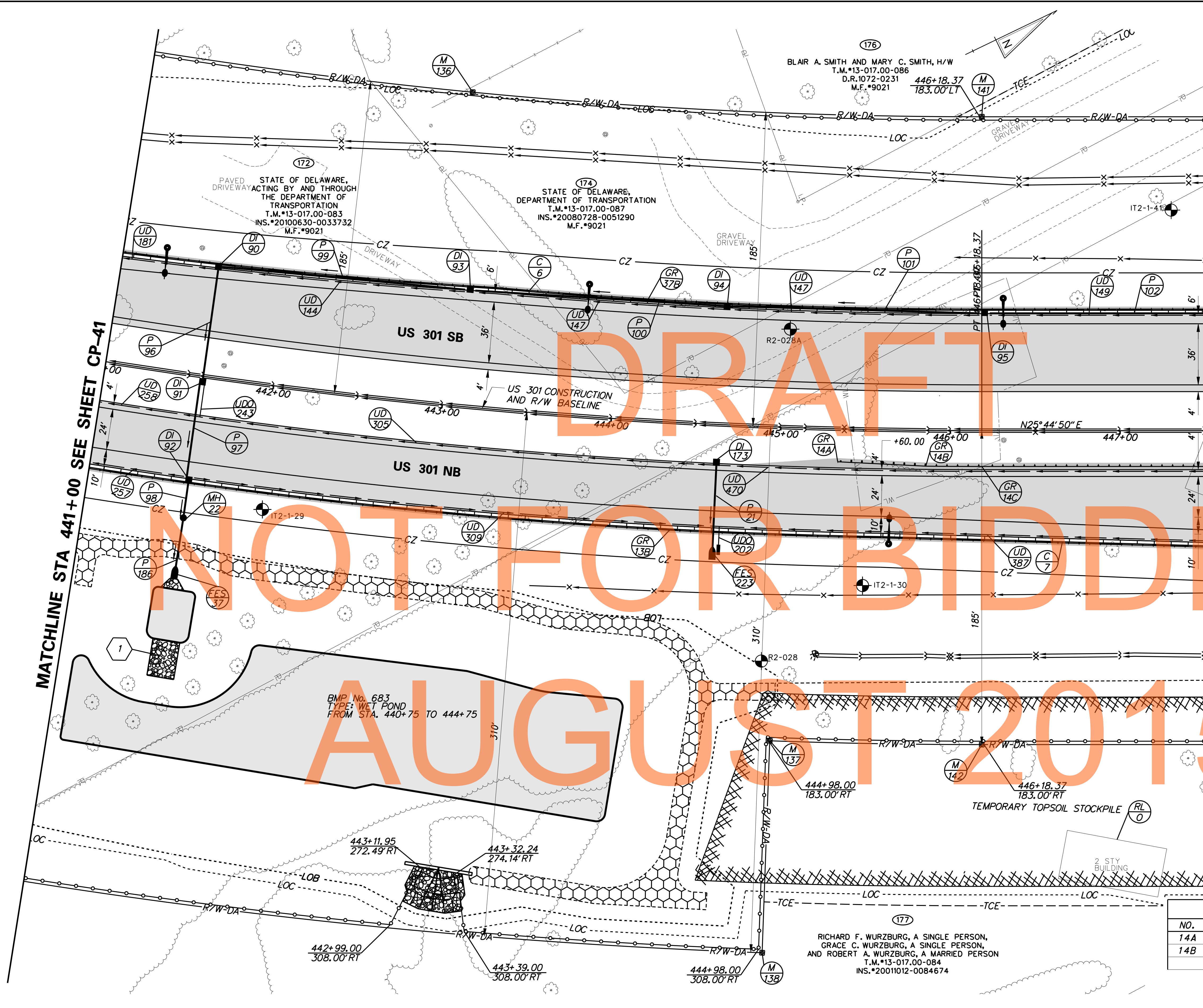
**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JW
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-42
SHEET NO.
109
TOTAL SHTS.
1256

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DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
21	18" RCP	IV	51.0'	0.0100	84.07	83.56
96	18" RCP	IV	66.5'	0.0056	76.81	76.43
97	18" RCP	IV	57.0'	0.0140	76.23	75.43
98	18" RCP	IV	19.5'	0.0161	75.23	74.92
99	18" RCP	IV	144.0'	0.0072	78.05	77.01
100	18" RCP	IV	147.0'	0.0085	79.50	78.25
101	18" RCP	IV	147.0'	0.0148	81.88	79.70
102	18" RCP	IV	149.0'	0.0035	82.60	82.08
186	18" RCP	IV	28.5'	0.0128	68.50	68.14

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
90	441+58.0	-66.4'	48" X 30"	SINGLE 2	82.72	76.81
91	441+58.0	3.3'	34" X 24"	SINGLE 2	82.65	76.23
92	441+58.0	62.9'	72" X 24"	DOUBLE 2	86.88	75.23
93	443+10.0	-70.5'	72" X 48"	DOUBLE 2	83.95	78.05
94	444+65.0	-70.9'	48" X 30"	SINGLE 2	85.41	79.50
95	446+20.0	-70.9'	72" X 48"	DOUBLE 2	87.79	81.88
173	444+63.0	21.1'	34" X 24"	SINGLE 2	88.61	84.07

MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
22	441+58.0	84.3'	ROUND 4'	79.50	68.50

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
37	18" RCP	0.0128	NO
223	18" RCP	0.0100	NO

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
202	20	87.26
243	25	80.53

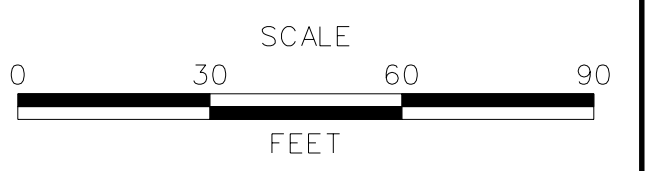
CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
6	CONCRETE CURB AND GUTTER, TYPE 1-4	640.00
7	CONCRETE CURB AND GUTTER, TYPE 1-4	660.00

NOTES:
 1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASINS (TYP)

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
14A	END TREATMENT ATT, TYPE 1	445+35.4	A	50.00'
14B	GALVANIZED SBGR, TYPE 1	445+85.6	21.08'	375.0

A = OFFSET ATTENUATOR PER CONSTRUCTION DETAILS

ADDENDUMS / REVISIONS

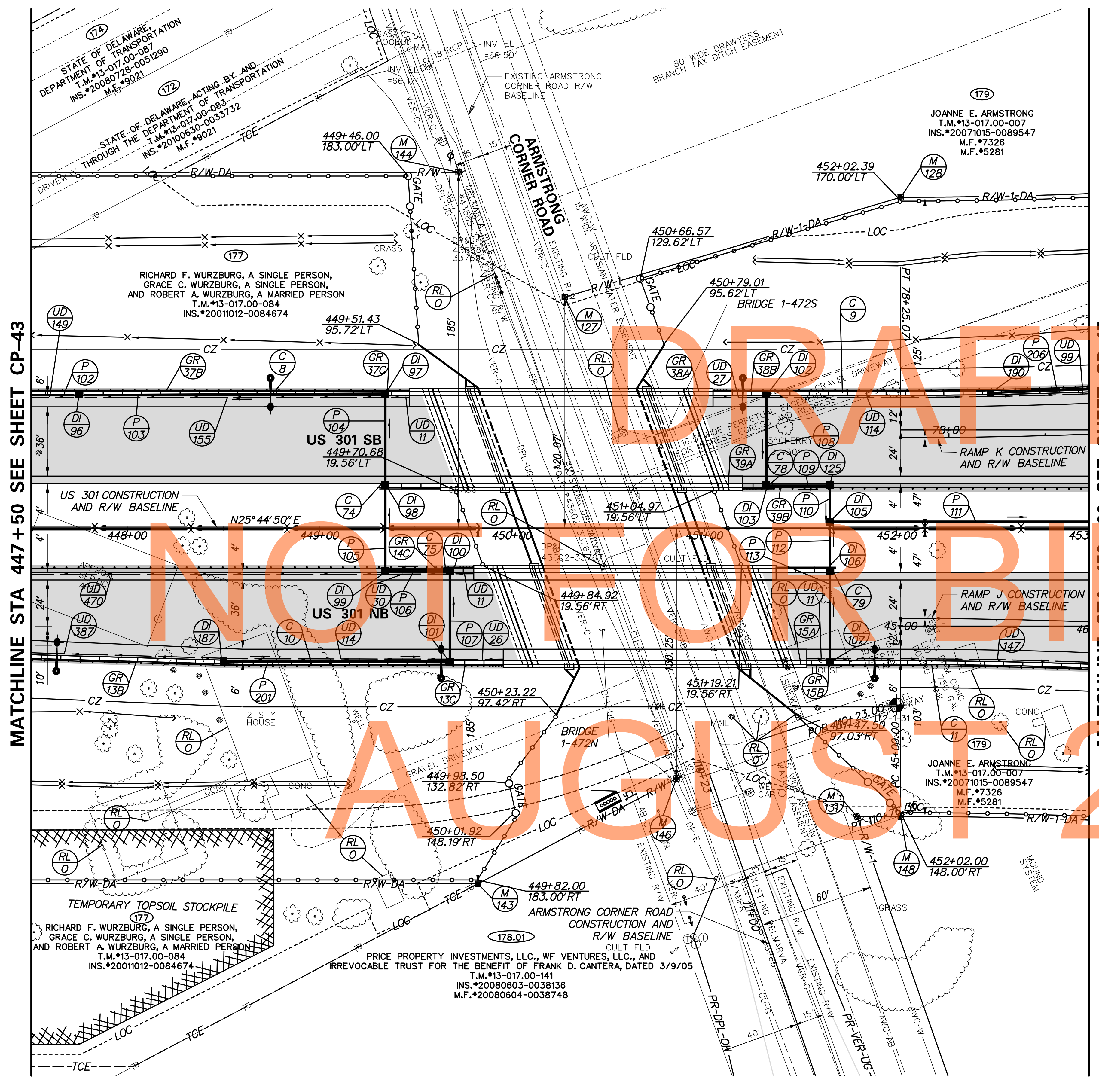


US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.	DESIGNED BY:	CHECKED BY:
T20091303		JAM	SF
COUNTY	NEW CASTLE		

CONSTRUCTION PLAN	CP-43
	SHEET NO. 110
	TOTAL SHTS. 1256

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DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
103	18" RCP	IV	154.5'	0.0030	83.26	82.80
104	18" RCP	IV	46.0'	0.0030	83.59	83.46
105	18" RCP	IV	42.0'	0.0030	83.92	83.79
106	18" RCP	IV	29.5'	0.0030	84.21	84.12
107	18" RCP	IV	45.5'	0.0030	84.55	84.41
108	18" RCP	IV	46.0'	0.0050	84.91	84.68
109	18" RCP	IV	29.0'	0.0050	84.48	84.34
110	18" RCP	IV	16.5'	0.0050	84.14	84.06
111	18" RCP	IV	181.0'	0.0050	83.86	82.96
112	18" RCP	IV	23.5'	0.0145	84.40	84.06
113	18" RCP	IV	46.0'	0.0050	84.83	84.60
201	18" RCP	IV	114.0'	0.0030	85.09	84.75
206	18" RCP	IV	97.5'	0.0050	84.25	83.76

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
96	447+75.0	-70.9'	72" X 48"	DOUBLE 2	89.86	82.60
97	449+34.2	-70.9'	48" X 30"	SINGLE 2	90.87	83.26
98	449+34.1	-21.1'	34" X 24"	SINGLE 2	91.67	83.59
99	449+34.2	21.1'	48" X 30"	SINGLE 2	91.70	83.92
100	449+67.6	21.1'	48" X 30"	SINGLE 2	91.77	84.21
101	449+67.6	70.9'	48" X 30"	SINGLE 2	90.85	84.55
102	451+32.3	-70.9'	34" X 24"	SINGLE 2	90.91	84.91
103	451+32.3	-21.1'	48" X 30"	SINGLE 2	91.71	84.48
105	451+65.2	-3.3'	48" X 30"	SINGLE 2	88.87	83.86
106	451+65.2	21.1'	34" X 24"	SINGLE 2	91.63	84.40
107	451+65.2	70.9'	34" X 24"	SINGLE 2	90.83	84.83
125	451+65.2	-21.1'	48" X 30"	SINGLE 2	91.63	84.14
187	448+50.0	70.6'	48" X 30"	SINGLE 2	91.09	85.09
190	452+48.7	-71.3'	48" X 30"	SINGLE 2	90.25	84.25

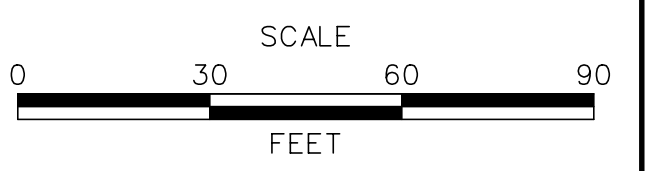
CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
8	CONCRETE CURB AND GUTTER, TYPE 1-4	197.00
9	CONCRETE CURB AND GUTTER, TYPE 1-4	196.00
10	CONCRETE CURB AND GUTTER, TYPE 1-4	246.00
11	CONCRETE CURB AND GUTTER, TYPE 1-4	147.00
74	CONCRETE CURB AND GUTTER, TYPE 1-4	32.00
75	CONCRETE CURB AND GUTTER, TYPE 1-4	16.00
78	CONCRETE CURB AND GUTTER, TYPE 1-4	16.00
79	CONCRETE CURB AND GUTTER, TYPE 1-4	31.00

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
13C	GR TO BARRIER CONN, APPR TYPE 1	449+75.7	70.92'	19.75'
14C	GR TO BARRIER CONN, APPR TYPE 1	449+60.4	21.08'	19.75'
15A	GR TO BARRIER CONN, EXIT TYPE 31	451+53.3	70.92'	11.50'
15B	GALVANIZED SBGR, TYPE 1	451+64.8	70.92'	862.50'
37C	GR TO BARRIER CONN, EXIT TYPE 31	449+35.2	-70.92'	11.50'
38A	GR TO BARRIER CONN, APPR TYPE 1	451+04.5	-70.92'	19.75'
38B	GALVANIZED SBGR, TYPE 1	451+24.3	-70.92'	1050.00'
39A	GR TO BARRIER CONN, APPR TYPE 1	451+19.8	-21.08'	19.75'
39B	GALVANIZED SBGR, TYPE 1	451+39.6	-21.08'	375.00'

A = OFFSET ATTENUATOR PER CONSTRUCTION DETAILS
LENGTHS FOR BARRIER CONNECTIONS ARE MEASURED FROM THE END OF BARRIER WALL FOR LAYOUT PURPOSES AND ARE PAID FOR AS AN (EACH) ITEM.



ADDENDUMS / REVISIONS	



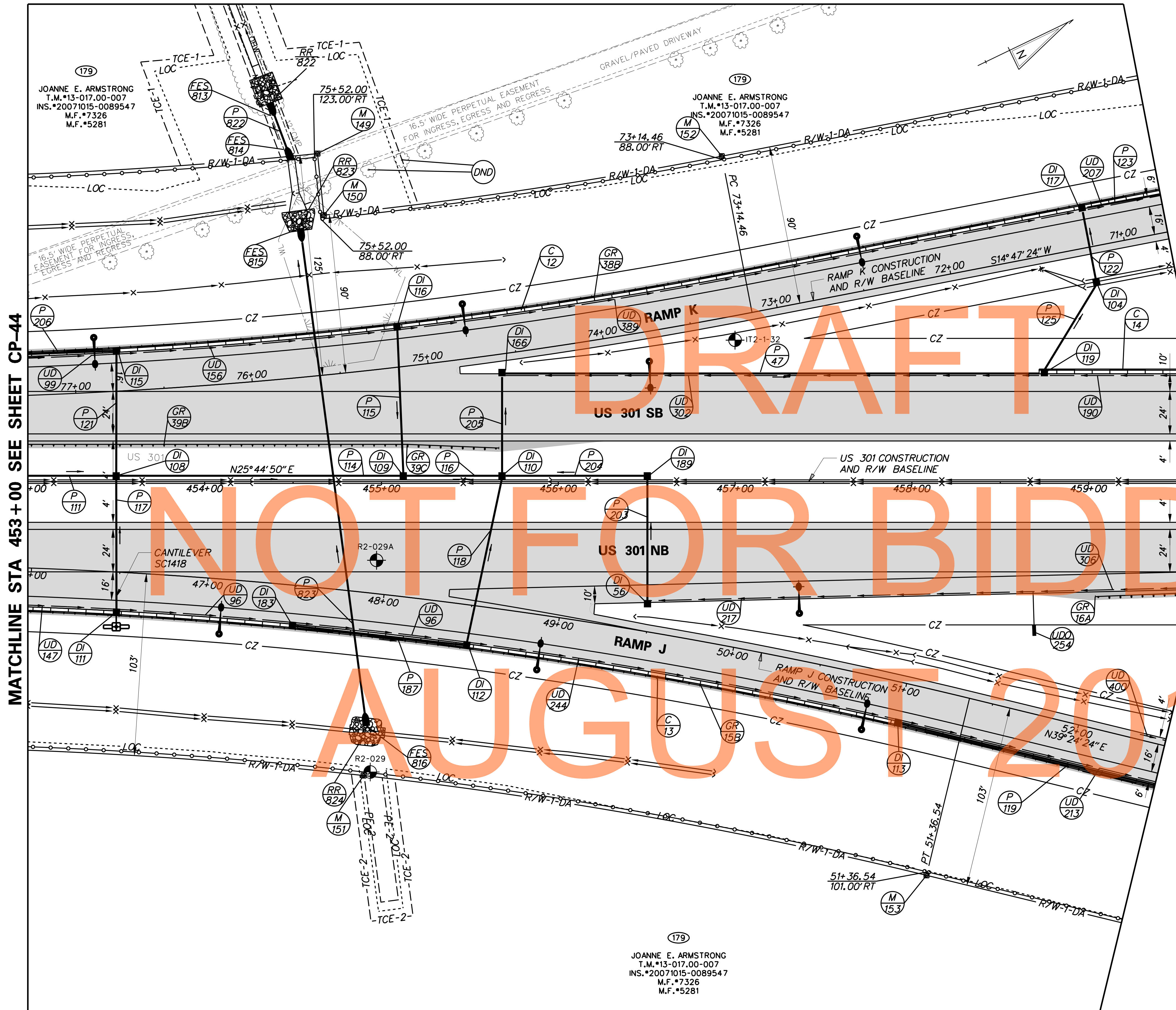
US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	T20091303
COUNTY	NEW CASTLE
BRIDGE NO.	
DESIGNED BY:	JAM
CHECKED BY:	SF

CONSTRUCTION PLAN

CP-44	
SHEET NO.	111
TOTAL SHTS.	1256

MATCHLINE SEE SHEET CP-46



GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
16A	END TREATMENT ATT, TYPE 1	459+05.7	A	50.00'
39C	END TREATMENT ATT, TYPE 1	455+14.6	A	50.00'

A = OFFSET ATTENUATOR PER CONSTRUCTION DETAILS

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
47	24" RCP	IV	300.0'	0.0030	80.02	79.13
114	18" RCP	IV	158.5'	0.0050	82.76	81.97
115	18" RCP	IV	82.0'	0.0096	82.76	81.97
116	18" RCP	IV	52.0'	0.0075	81.77	81.38
117	18" RCP	IV	75.0'	0.0086	83.60	82.96
118	18" RCP	IV	96.0'	0.0070	82.06	81.38
119	18" RCP	IV	212.0'	0.0210	82.04	77.59
121	18" RCP	IV	68.5'	0.0087	83.56	82.96
122	24" RCP	IV	39.0'	0.0200	76.53	75.75
123	24" RCP	IV	206.5'	0.0200	75.05	70.92
125	24" RCP	IV	57.0'	0.0333	78.63	76.73
187	18" RCP	IV	95.5'	0.0075	82.98	82.26
203	18" RCP	IV	70.5'	0.0075	83.72	83.19
204	18" RCP	IV	78.5'	0.0205	82.99	81.38
205	18" RCP	IV	55.0'	0.0100	81.17	80.62
822	24" x 38" HERCP	IV	34.0'	0.0030	66.56	66.46
823	24" RCP	IV	276.0'	0.0030	67.48	66.65

DRAINAGE INLET SCHEDULE							
NO.	STATION	OFFSET	BOX SIZE	GRATE	T. G. EL.	INV. EL.	
56	456+50.4	70.3'	48" X 30"	SINGLE 2	89.72	83.72	
104	71+20.0	-20.0'	48" X 30"	SINGLE 2	80.58	76.53	
108	453+50.0	-3.3'	48" X 30"	SINGLE 2	88.02	82.76	
109	455+12.4	-3.3'	48" X 30"	SINGLE 2	87.41	81.77	
110	455+68.2	-3.3'	48" X 30"	SINGLE 2	87.57	81.18	
111	46+49.3	23.9'	48" X 30"	SINGLE 2	89.60	83.60	
112	48+50.0	23.9'	48" X 30"	SINGLE 2	88.58	82.06	
113	51+00.0	23.9'	48" X 30"	SINGLE 2	86.79	82.04	
115	76+75.8	23.9'	48" X 30"	SINGLE 2	89.51	83.56	
116	75+15.0	23.9'	48" X 30"	SINGLE 2	88.76	82.76	
117	71+20.0	23.9'	72" X 48"	DOUBLE 2	82.44	75.05	
119	458+75.0	-62.9'	72" X 48"	DOUBLE 2	92.87	78.63	
166	455+70.0	-62.9'	48" X 48"	SINGLE 2	89.57	80.02	
183	47+50.0	23.9'	48" X 30"	SINGLE 2	88.98	82.98	
189	456+50.4	-3.3'	48" X 30"	SINGLE 2	87.82	82.99	

FLARED END SECTION SCHEDULE				
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE	
813	24" X 38" HERCP	0.0030	YES	
814	24" X 38" HERCP	0.0030	YES	
815	24" RCP	0.0030	YES	
816	24" RCP	0.0030	YES	

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
254	28	89.97

RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
822	R-4	25
823	R-4	17
824	R-4	30

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
12	CONCRETE CURB AND GUTTER, TYPE 1-4	648.00
13	CONCRETE CURB AND GUTTER, TYPE 1-4	647.00
14	CONCRETE CURB AND GUTTER, TYPE 1-4	78.00

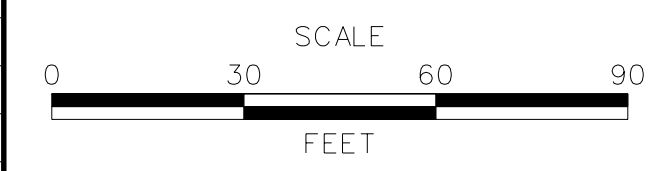
MATCHLINE STA 453+00 SEE SHEET CP-44

MATCHLINE STA 459+50 SEE SHEET CP-47

179
 JOANNE E. ARMSTRONG
 T.M.#13-017.00-007
 INS.#20071015-0089547
 M.F.#7326
 M.F.#5281



ADDENDUMS / REVISIONS	



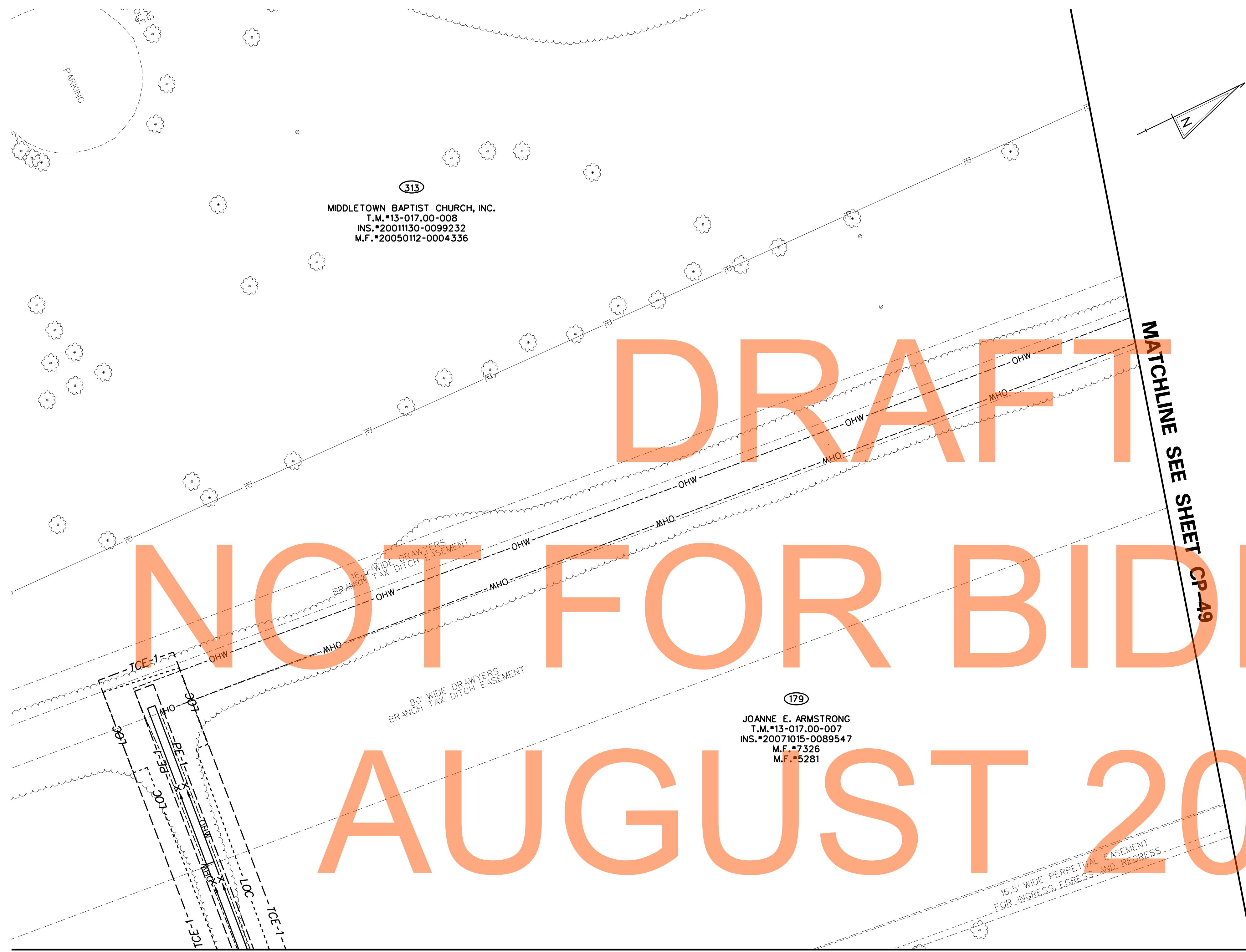
**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-45
SHEET NO.
112
TOTAL SHTS.
1256

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AUGUST 2015

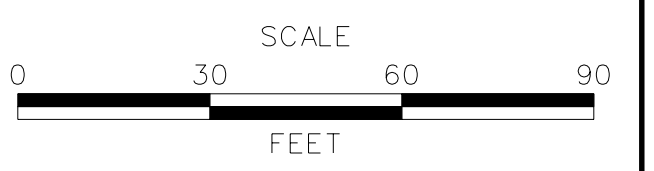
MATCHLINE SEE SHEET CP-45

MATCHLINE SEE SHEET CP-49

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ADDENDUMS / REVISIONS	



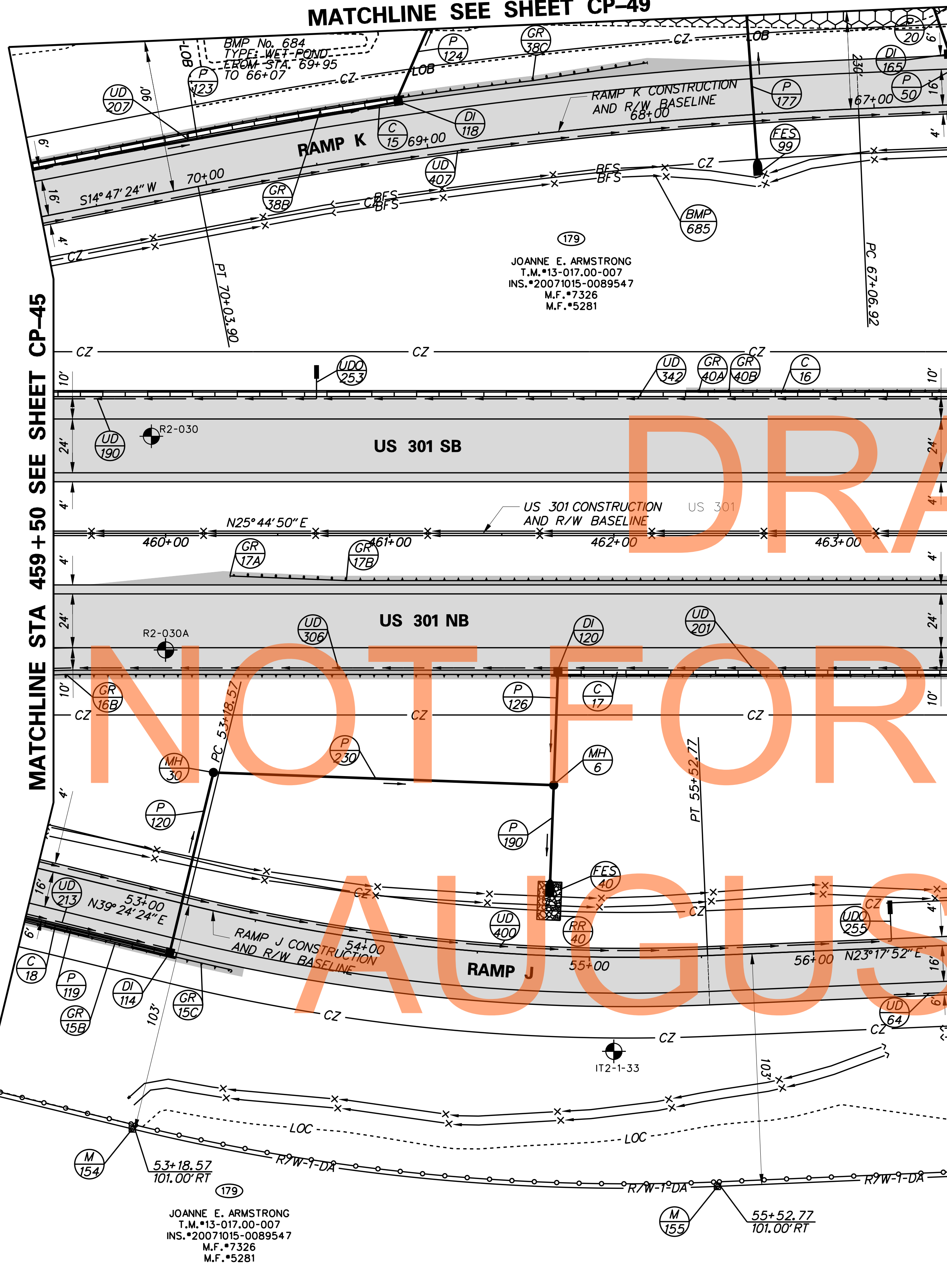
**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-46
SHEET NO.
113
TOTAL SHTS.
1256

MATCHLINE SEE SHEET CP-49



DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
20	18" RCP	V	34.5'	0.0022	67.69	67.61
50	18" RCP	V	25.5'	0.0022	67.94	67.89
120	18" RCP	IV	80.0'	0.0200	77.39	75.79
124	24" RCP	V	52.5'	0.0072	68.92	68.54
126	18" RCP	IV	48.0'	0.0500	86.13	83.73
177	18" RCP	V	77.5'	0.0212	69.37	67.73
190	18" RCP	IV	42.0'	0.0061	74.95	74.70
230	18" RCP	IV	148.5'	0.0030	75.59	75.15

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
114	53+16.2	23.9'	48" X 30"	SINGLE 2	82.35	77.39
118	69+10.0	23.9'	48" X 48"	SINGLE 2	77.76	68.92
120	461+75.0	62.9'	34" X 24"	SINGLE 2	96.13	86.13
165	66+65.8	23.9'	48" X 30"	SINGLE 2	71.97	67.69

MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
6	461+73.2	112.3'	ROUND 4'	87.50	74.95
30	53+16.2	-60.0'	ROUND 4'	88.40	75.59

BIOFILTRATION SWALE SCHEDULE					
NO.	START STA. / OFFSET	END STA. / OFFSET	LENGTH		
685	69+46	-20'	67+53	-30'	190'

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
40	18" RCP	0.0061	NO
99	18" RCP	0.0212	NO

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
253	18	92.58
255	21	70.78

RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
40	R-4	21

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
15	CONCRETE CURB AND GUTTER, TYPE 1-4	169.00
16	CONCRETE CURB AND GUTTER, TYPE 1-4	400.00
17	CONCRETE CURB AND GUTTER, TYPE 1-4	178.00
18	CONCRETE CURB AND GUTTER, TYPE 1-4	69.00

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
15C	END ANCHORAGE TYPE 31	53+30.5	23.92'	12.50'
16B	GALVANIZED SBGR, TYPE 1	459+55.7	62.92'	450.00'
17A	END TREATMENT ATT, TYPE 1	460+30.7	A	50.00'
17B	GALVANIZED SBGR, TYPE 1	460+80.7	21.08'	325.00'
38C	END TREATMENT ATT, TYPE 1	68+50.2	A	50.00'
40A	END ANCHORAGE TYPE 31	462+38.9	-62.92'	12.50'
40B	GALVANIZED SBGR, TYPE 1	462+51.4	-62.92'	162.50'

A = OFFSET ATTENUATOR PER CONSTRUCTION DETAILS

MATCHLINE STA 459+50 SEE SHEET CP-45

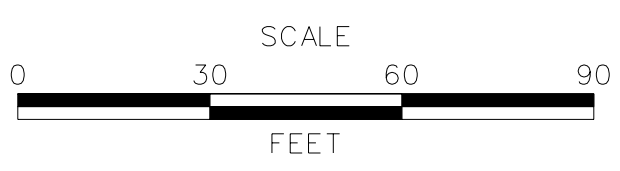
MATCHLINE STA 463+50 SEE SHEET CP-48

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ADDENDUMS / REVISIONS



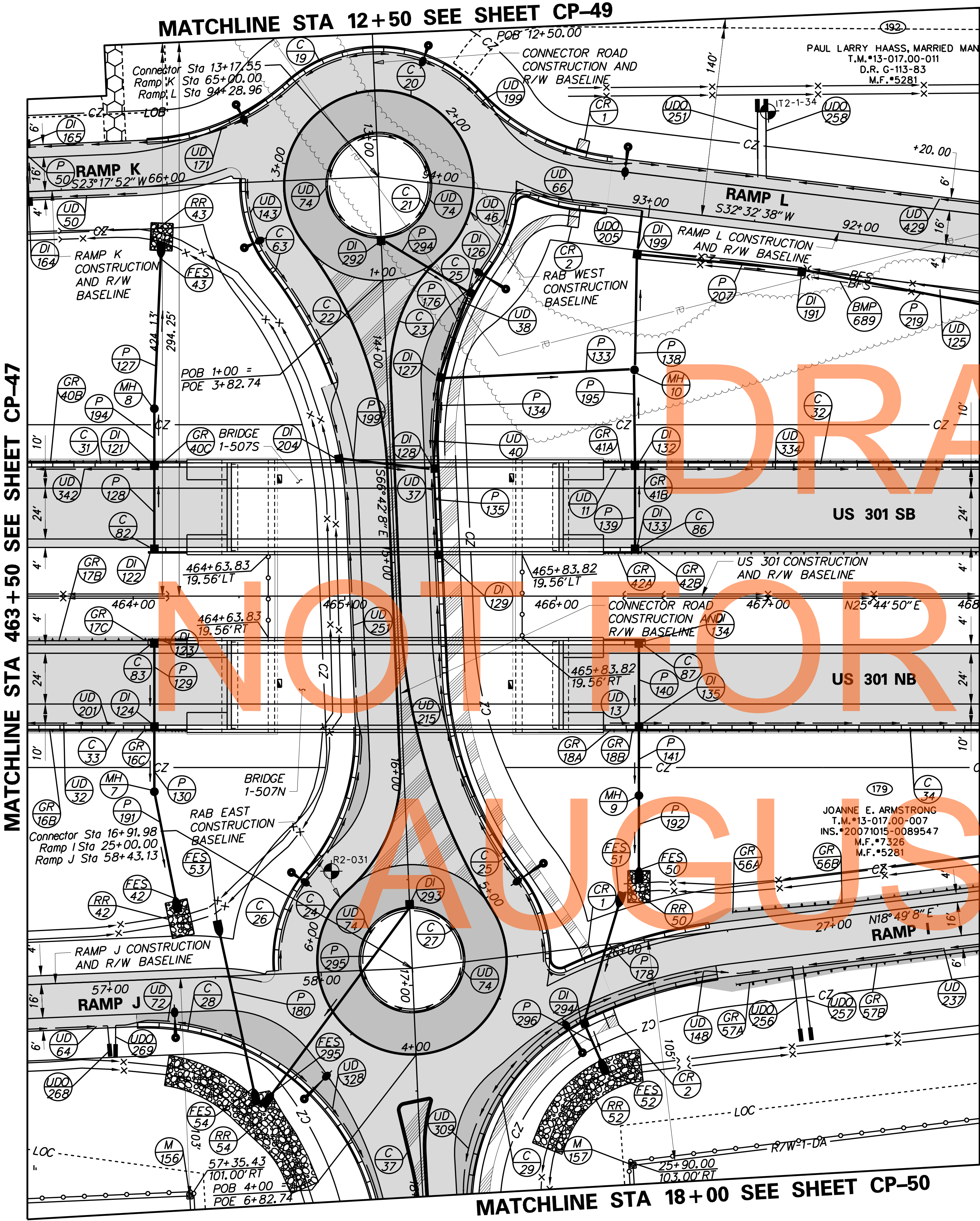
**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT T20091303	BRIDGE NO.	
COUNTY NEW CASTLE	DESIGNED BY: JAM	
	CHECKED BY: SF	

CONSTRUCTION PLAN

CP-47
SHEET NO. 114
TOTAL SHTS. 1256

MATCHLINE STA 12+50 SEE SHEET CP-49



MATCHLINE STA 18+00 SEE SHEET CP-50

MATCHLINE STA 463+50 SEE SHEET CP-47

MATCHLINE STA 468+00 SEE SHEET CP-51

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
127	18" RCP	IV	71.0'	0.0100	70.77	70.06
128	18" RCP	IV	38.0'	0.0500	91.47	89.57
129	18" RCP	IV	38.0'	0.0187	92.74	92.02
130	18" RCP	IV	28.0'	0.0500	81.84	80.44
133	18" RCP	IV	88.0'	0.0030	67.13	66.87
134	18" RCP	IV	39.5'	0.0030	67.37	67.25
135	18" RCP	IV	37.0'	0.0045	67.70	67.53
138	18" RCP	V	51.5'	0.0030	66.75	66.59
139	18" RCP	IV	38.0'	0.0200	91.90	91.13
140	18" RCP	IV	38.0'	0.0187	91.74	91.02
141	18" RCP	IV	29.5'	0.0508	81.65	80.15
176	18" RCP	V	37.5'	0.0082	68.36	68.05
178	15" RCP	V	58.0'	0.0078	69.95	69.50
180	18" RCP	V	77.0'	0.0140	69.67	68.58
191	18" RCP	IV	50.5'	0.0500	72.82	70.30
192	18" RCP	IV	33.5'	0.0494	71.95	70.30
194	18" RCP	IV	24.0'	0.0500	84.70	83.50
195	18" RCP	IV	42.0'	0.0509	78.58	76.45
199	18" RCP	V	43.0'	0.0030	67.62	67.49
207	24" RCP	V	74.5'	0.0021	66.00	65.84
219	24" RCP	IV	218.5'	0.0021	65.75	65.29
294	18" RCP	IV	45.0'	0.0030	68.61	68.48
295	18" RCP	IV	110.5'	0.0030	68.85	68.52
296	15" RCP	V	18.5'	0.0030	69.50	69.44

BIOFILTRATION SWALE SCHEDULE

NO.	START STA. /OFFSET	END STA. /OFFSET	LENGTH
689	90+98 -21'	92+23 -21'	125'

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
19	CONCRETE CURB AND GUTTER, TYPE 1-4	246.00
20	CONCRETE CURB, TYPE 1-2	209.00
21	CONCRETE CURB, TYPE 1-8	158.00
22	CONCRETE CURB, TYPE 1-2	321.00
23	CONCRETE CURB, TYPE 1-2	324.00
24	CONCRETE CURB, TYPE 1-2	205.00
25	CONCRETE CURB AND GUTTER, TYPE 1-4	510.00
26	CONCRETE CURB AND GUTTER, TYPE 1-4	125.00
27	CONCRETE CURB, TYPE 1-8	158.00
28	CONCRETE CURB AND GUTTER, TYPE 1-4	152.00
29	CONCRETE CURB AND GUTTER, TYPE 1-4	171.00
31	CONCRETE CURB AND GUTTER, TYPE 1-4	75.00
32	CONCRETE CURB AND GUTTER, TYPE 1-4	178.00
33	CONCRETE CURB AND GUTTER, TYPE 1-4	76.00
34	CONCRETE CURB AND GUTTER, TYPE 1-4	178.00
37	CONCRETE CURB, TYPE 1-2	106.00
63	CONCRETE CURB AND GUTTER, TYPE 1-4	106.00
82	CONCRETE CURB AND GUTTER, TYPE 1-4	19.00
83	CONCRETE CURB AND GUTTER, TYPE 1-4	19.00
86	CONCRETE CURB AND GUTTER, TYPE 1-4	18.00
87	CONCRETE CURB AND GUTTER, TYPE 1-4	20.00

RIPRAP SCHEDULE

NO.	TYPE	AREA (SY)
42	R-4	21
43	R-4	16
50	R-4	19
52	R-4	109
54	R-4	160

UNDERDRAIN OUTLETS

NO.	LENGTH	DIS. EL.
205	24	67.12
251	31	67.77
256	43	70.00
257	43	70.00
258	31	67.75
268	17	69.71
269	18	69.69

FLARED END SECTION SCHEDULE

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
42	18" RCP	0.0500	NO
43	18" RCP	0.0100	NO
50	18" RCP	0.0494	NO
51	15" RCP	0.0078	YES
52	15" RCP	0.0030	NO
53	18" RCP	0.0140	NO
54	18" RCP	0.0140	NO
295	18" RCP	0.0030	NO

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
121	464+10.0	-62.9'	34" X 24"	SINGLE 2	96.77	84.70
122	464+10.0	-21.1'	34" X 24"	SINGLE 2	97.49	91.49
123	464+10.0	21.1'	34" X 24"	SINGLE 2	97.49	92.74
124	464+10.0	62.9'	34" X 24"	SINGLE 2	96.77	81.84
126	13+75.0	-42.4'	72" X 48"	DOUBLE 1	72.85	68.36
127	14+13.9	-26.6'	48" X 48"	SINGLE 1	71.98	67.13
128	14+56.5	-22.0'	48" X 48"	SINGLE 1	71.98	67.37
129	14+97.3	-22.0'	48" X 48"	SINGLE 1	71.95	67.70
132	466+37.2	-62.9'	34" X 24"	SINGLE 2	95.78	78.58
133	466+37.2	-21.1'	34" X 24"	SINGLE 2	96.50	91.90
134	466+39.0	21.1'	34" X 24"	SINGLE 2	96.49	91.74
135	466+39.0	62.9'	34" X 24"	SINGLE 2	95.77	81.65
164	66+65.8	-5.9'	48" X 30"	SINGLE 2	72.00	67.94
191	92+25.0	-20.9'	48" X 48"	SINGLE 2	69.97	65.75
199	93+03.2	-21.9'	48" X 30"	SINGLE 2	69.62	66.00
204	14+50.0	25.6'	34" X 24"	SINGLE 1	71.64	67.62
292	13+46.6	0.0'	48" X 48"	SINGLE 1	73.33	68.61
293	16+63.0	0.0'	48" X 48"	SINGLE 1	73.92	68.85
294	25+95.5	32.6'	34" X 24"	SINGLE 2	73.60	69.81

MANHOLE SCHEDULE

NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
7	464+10.00	92.4'	ROUND 4'	85.00	72.82
8	464+10.00	-88.6'	ROUND 4'	87.00	70.77
9	466+39.00	94.3'	ROUND 4'	83.40	71.95
10	92+98.0	-76.3'	BOX 54' X 54'	80.45	66.75

GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
16C	GR TO BARRIER CONN, APPR TYPE 1	464+05.7	62.92'	19.75'
17C	GR TO BARRIER CONN, APPR TYPE 1	464+05.7	21.08'	19.75'
18A	GR TO BARRIER CONN, EXIT TYPE 1	466+22.2	62.92'	11.50'
18B	GALVANIZED SBGR, TYPE 1	466+37.7	62.92'	625.00'
40C	GR TO BARRIER CONN, EXIT TYPE 31	464+13.9	-62.92'	11.50'
41A	GR TO BARRIER CONN, APPR TYPE 1	466+22.2	-62.92'	19.75'
41B	GALVANIZED SBGR, TYPE 1	466+42.0	-62.92'	637.50'
42A	GR TO BARRIER CONN, APPR TYPE 1	466+22.0	-21.00'	19.75'
42B	GALVANIZED SBGR, TYPE 1	466+42.0	-21.00'	325.00'
56A	END TREATMENT ATT, TYPE 1	26+53.59	A	50.00'
56B	GALVANIZED SBGR, TYPE 1	27+05.30	-6.00'	212.50'
57A	END TREATMENT ATT, TYPE 1	26+51.22	A	50.00'
57B	GALVANIZED SBGR, TYPE 1	27+02.93	24.00'	250.00'

A = OFFSET ATTENUATOR PER CONSTRUCTION DETAILS

LENGTHS FOR BARRIER CONNECTIONS ARE MEASURED FROM THE END OF BARRIER WALL FOR LAYOUT PURPOSES AND ARE PAID FOR AS AN (EACH) ITEM.

SEE TOLL PLAZA SHEETS 1184-1241 FOR ADDITIONAL INFORMATION.

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	D/S. EL.
824	24" x 38" HERCP	IV	38.0'	0.0030	65.54	65.43

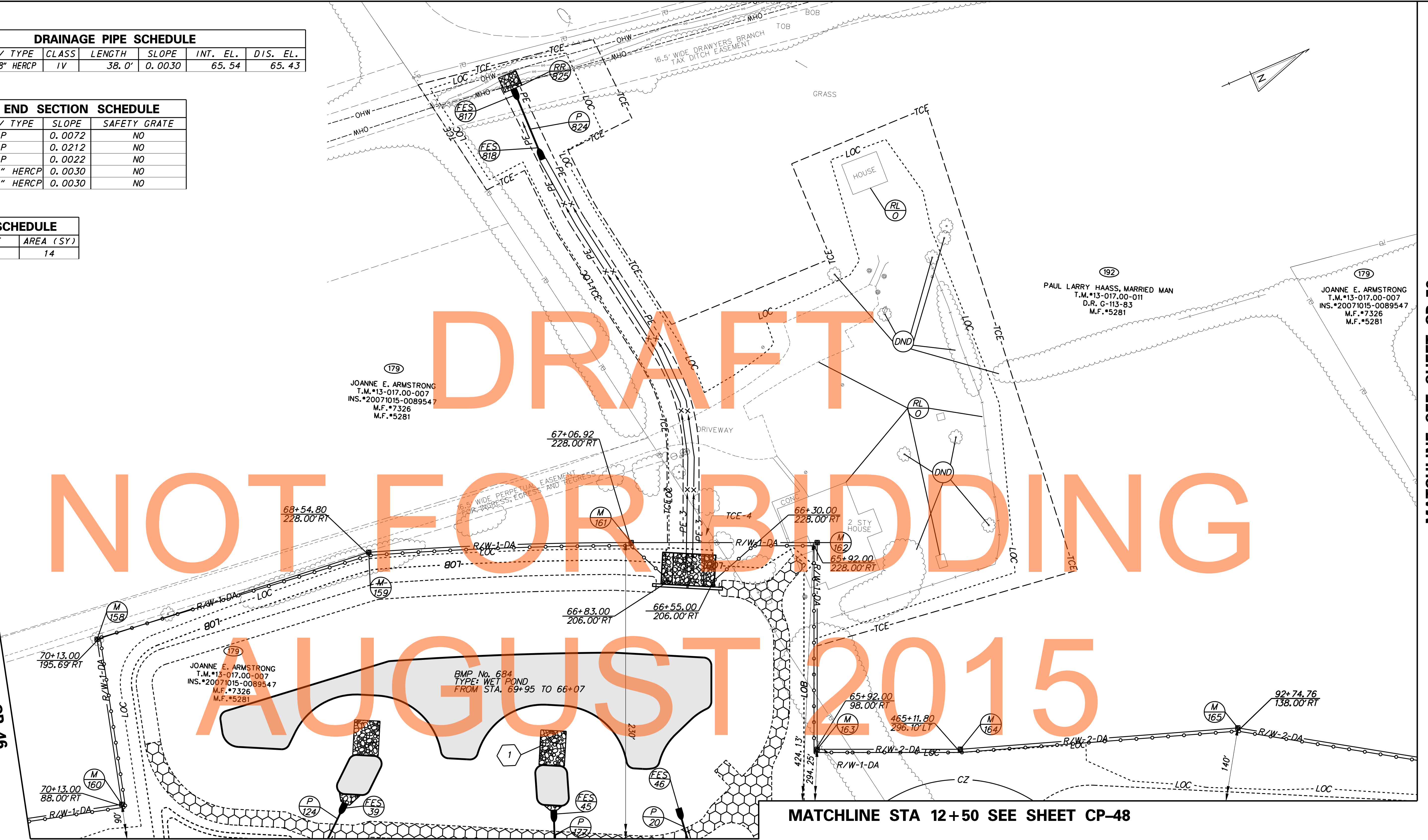
FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
39	24" RCP	0.0072	NO
45	18" RCP	0.0212	NO
46	18" RCP	0.0022	NO
817	29" x 45" HERCP	0.0030	NO
818	29" x 45" HERCP	0.0030	NO

RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
825	R-4	14

DRAFT

NOT FOR BIDDING

AUGUST 2015



MATCHLINE SEE SHEET CP-46

MATCHLINE SEE SHEET CP-47

MATCHLINE STA 12+50 SEE SHEET CP-48

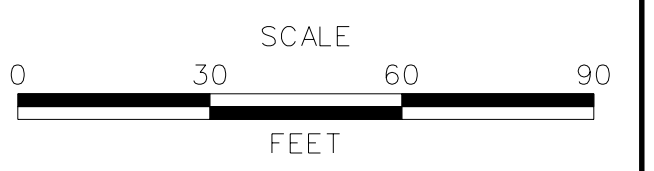
NOTE:
 1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASIN (TYP)

MATCHLINE SEE SHEET CP-52

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ADDENDUMS / REVISIONS

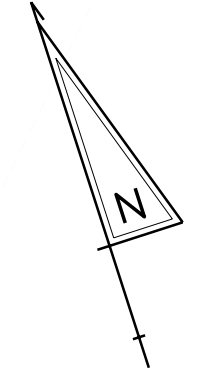


**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-49
SHEET NO.
116
TOTAL SHTS.
1256

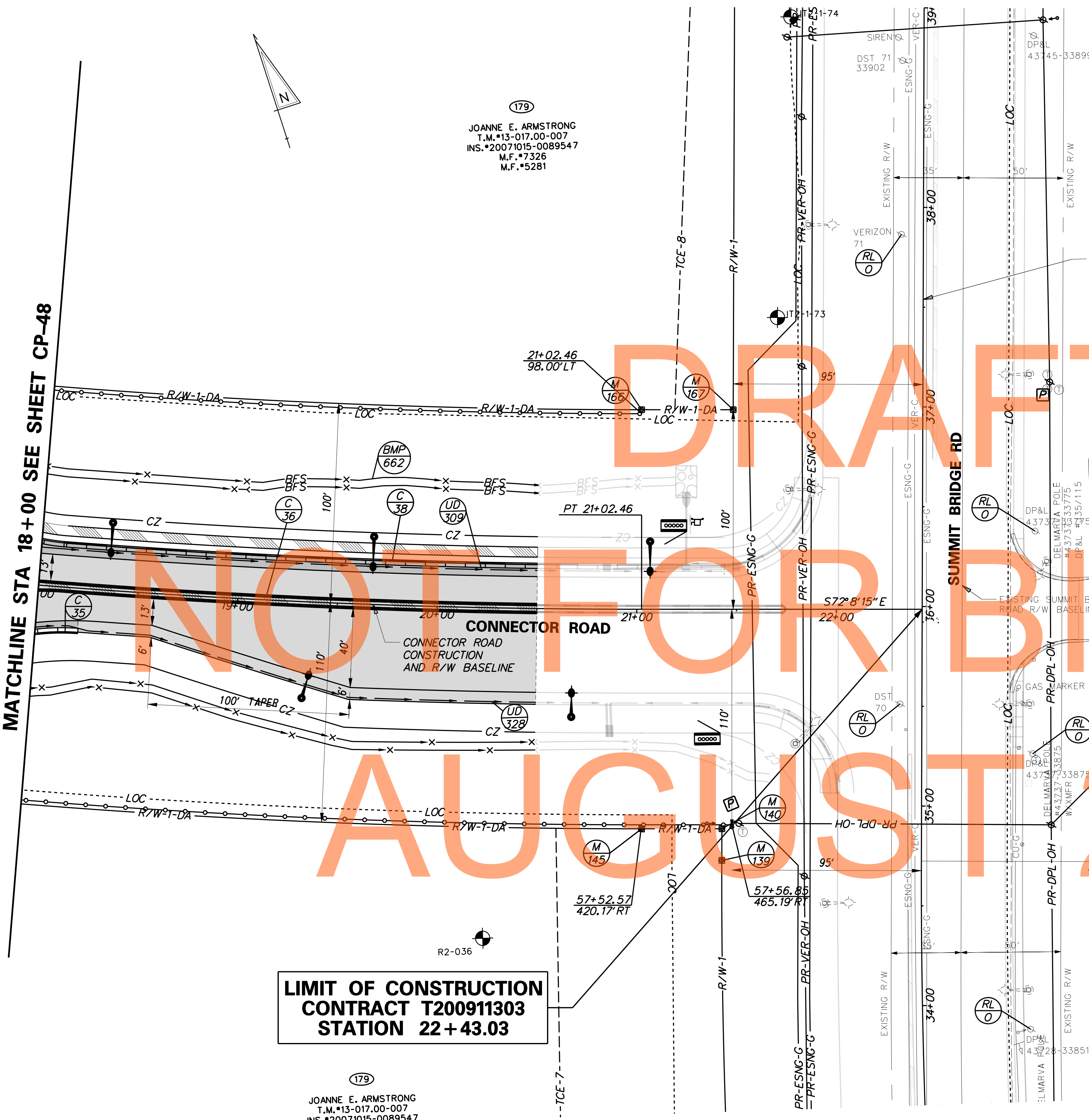


179
 JOANNE E. ARMSTRONG
 T.M.#13-017.00-007
 INS.#20071015-0089547
 M.F.#7326
 M.F.#5281

BIOFILTRATION SWALE SCHEDULE					
NO.	START STA./OFFSET	END STA./OFFSET	LENGTH		
662	19+02	57'	20+50	60'	148'

* TOTAL LENGTH OF BMP 662 IS 215'
 REMAINDER TO BE COMPLETED WITH
 CONTRACT T201011301 TO STATION 21+19.

MATCHLINE STA 18+00 SEE SHEET CP-48



**LIMIT OF CONSTRUCTION
 CONTRACT T200911303
 STATION 22 + 43.03**

179
 JOANNE E. ARMSTRONG
 T.M.#13-017.00-007
 INS.#20071015-0089547
 M.F.#7326
 M.F.#5281

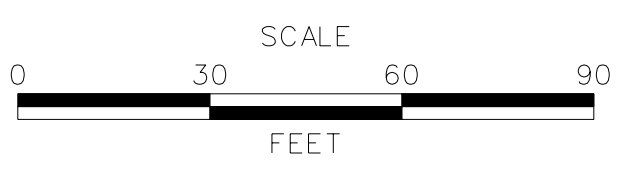
191
 PAUL E. COOPER AND JOANNE D. COOPER, H/W
 T.M.#13-017.00-044
 INS.#20050810-0079464
 M.F.#20020906-0086530

NOTE:
 SEE CONSTRUCTION PHASING, M.O.T. AND EROSION
 CONTROL PLAN - STAGE 1 FOR EXSTING CONDITIONS
 ALONG SUMMIT BRIDGE ROAD AT ONSET OF PROJECT.

**SEE CONTRACT
 T201011301**

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
35	CONCRETE CURB AND GUTTER, TYPE 1-4	22.00
36	CONCRETE CURB, TYPE 1-2	752.00
38	CONCRETE CURB AND GUTTER, TYPE 1-4	415.00

ADDENDUMS / REVISIONS



**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

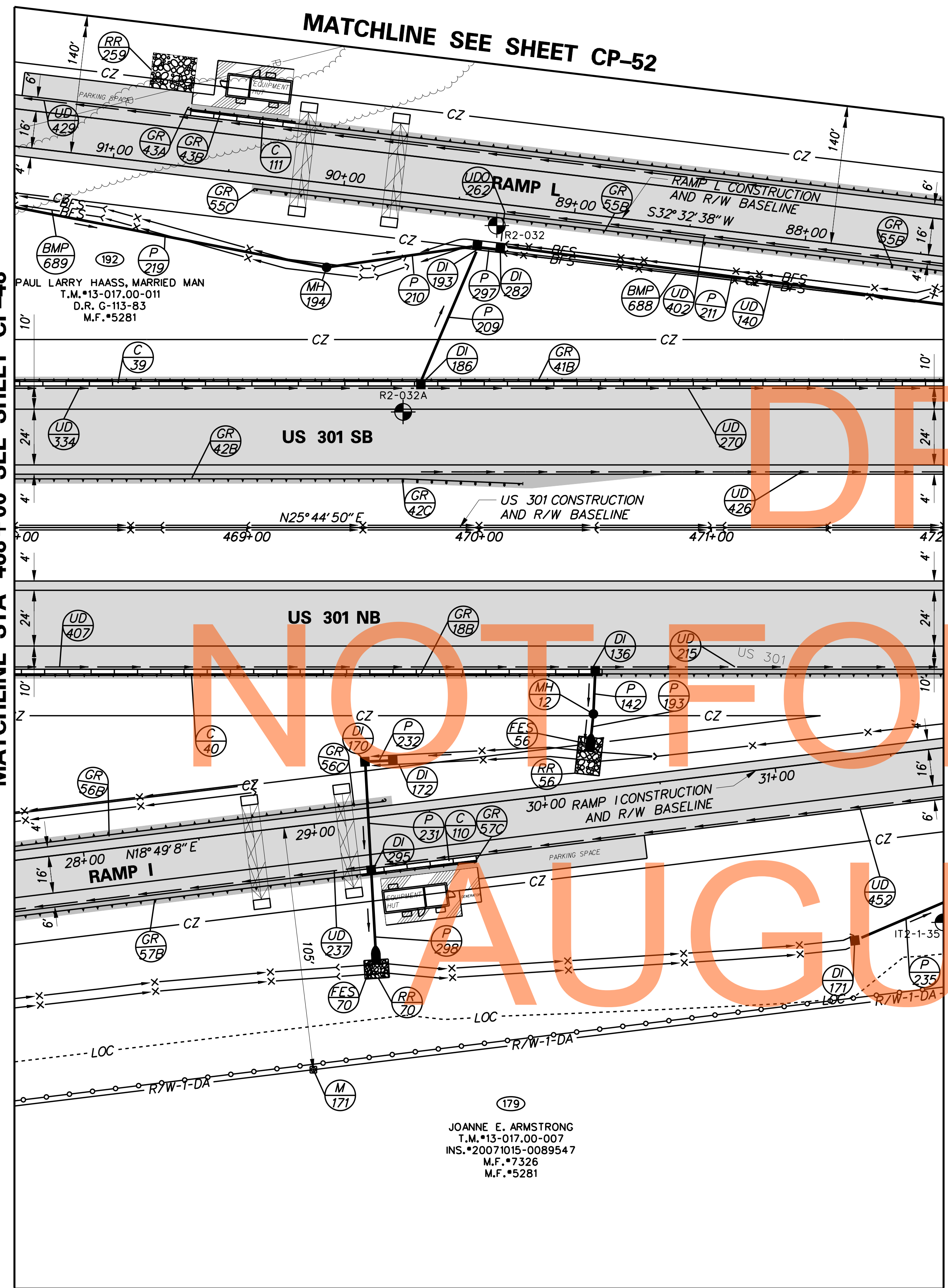
CP-50
SHEET NO.
117
TOTAL SHTS.
1256

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MATCHLINE STA 468 + 00 SEE SHEET CP-48

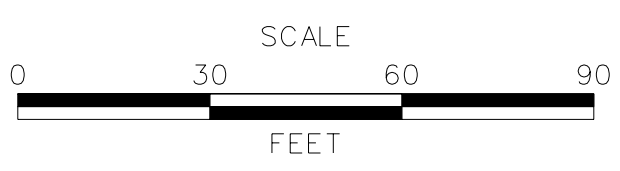
MATCHLINE STA 472 + 00 SEE SHEET CP-53



179
 JOANNE E. ARMSTRONG
 T.M.#13-017.00-007
 INS.#20071015-0089547
 M.F.#7326
 M.F.#5281



ADDENDUMS / REVISIONS



**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT T20091303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: JAM
	CHECKED BY: SF

CONSTRUCTION PLAN

CP-51
SHEET NO. 118
TOTAL SHTS. 1256

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
142	18" RCP	IV	15.5'	0.0500	80.52	79.75
193	18" RCP	IV	8.5'	0.0500	77.84	77.42
209	18" RCP	V	61.0'	0.0500	73.00	69.95
210	24" RCP	IV	63.5'	0.0021	65.20	65.06
211	24" RCP	IV	229.5'	0.0021	64.86	64.38
231	18" RCP	IV	45.0'	0.0230	70.08	69.05
232	18" RCP	IV	8.0'	0.0050	71.68	71.64
235	24" RCP	IV	42.0'	0.0036	63.23	63.08
297	24" RCP	IV	6.0'	0.0021	64.97	64.96
298	18" RCP	IV	33.50'	0.0230	68.85	68.09

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
136	470+50.0	62.9'	72" X 24"	DOUBLE 2	89.92	80.52
170	29+25.0	-24.0'	48" X 30"	SINGLE 2	75.35	70.08
171	31+25.0	77.9'	72" X 48"	DOUBLE 2	66.98	63.23
172	29+37.0	-23.0'	48" X 30"	SINGLE 2	75.56	71.68
186	469+75.0	-62.9'	72" X 24"	DOUBLE 2	91.93	73.00
193	89+40.0	-18.8'	48" X 48"	SINGLE 2	74.00	64.97
282	89+30.0	-18.8'	48" X 48"	SINGLE 2	74.17	64.86
295	29+22.0	-23.9'	34" X 24"	SINGLE 2	76.17	68.85

MANHOLE SCHEDULE

NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
12	470+49.24	80.3'	ROUND 4'	84.00	77.84
194	90+03.3	-36.0	ROUND 4'	73.50	65.20

FLARED END SECTION SCHEDULE

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
56	18" RCP	0.0500	NO
70	18" RCP	0.0230	NO

UNDERDRAIN OUTLETS

NO.	LENGTH	DIS. EL.
262	18	72.70

RIPRAP SCHEDULE

NO.	TYPE	AREA (SY)
56	R-4	20
70	R-4	10
259	R-4	32

BIOFILTRATION SWALE SCHEDULE

NO.	START STA./OFFSET	END STA./OFFSET	LENGTH
688	87+88 -19'	89+28 -19'	140'

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
39	CONCRETE CURB AND CUTTER, TYPE 1-4	400.00
40	CONCRETE CURB AND CUTTER, TYPE 1-4	253.00
110	CONCRETE CURB AND CUTTER, TYPE 1-4	50.00
111	CONCRETE CURB AND CUTTER, TYPE 1-4	45.00

GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
42C	END TREATMENT ATT, TYPE 1	469+67.0	A	50.00'
43A	END ANCHORAGE TYPE 31	90+70.24	24.00'	12.50'
43B	GALVANIZED SBGR, TYPE 1	90+56.62	24.00'	1712.50'
55B	GALVANIZED SBGR, TYPE 1	90+37.94	-6.00'	262.50'
55C	END ANCHORAGE TYPE 31	90+37.94	-6.00'	12.50'
56C	END ANCHORAGE TYPE 31	29+17.80	-6.00'	12.50'
57C	END ANCHORAGE TYPE 31	29+52.90	23.98'	12.50'

A = OFFSET ATTENUATOR PER CONSTRUCTION DETAILS

SEE TOLL PLAZA SHEETS 1184-1241 FOR ADDITIONAL INFORMATION.

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(192)
 PAUL LARRY HAASS, MARRIED MAN
 T.M.#13-017.00-011
 D.R. G-113-83
 M.F.#5281

(179)
 JOANNE E. ARMSTRONG
 T.M.#13-017.00-007
 INS.#20071015-0089547
 M.F.#7326
 M.F.#5281

(179)
 JOANNE E. ARMSTRONG
 T.M.#13-017.00-007
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(192)
 PAUL LARRY HAASS, MARRIED MAN
 T.M.#13-017.00-011
 D.R. G-113-83
 M.F.#5281

STATE OF DELAWARE,
 ACTING BY AND
 THROUGH THE
 DEPARTMENT OF
 TRANSPORTATION
 T.M.#13-017.00-012
 INS.#20100308-0011277
 M.F.#980

DRAFT
NOT FOR BIDDING
AUGUST 2015

MATCHLINE SEE SHEET CP-49

MATCHLINE SEE SHEET CP-54

MATCHLINE SEE SHEETS CP-51 & CP-53

ADDENDUMS / REVISIONS



**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

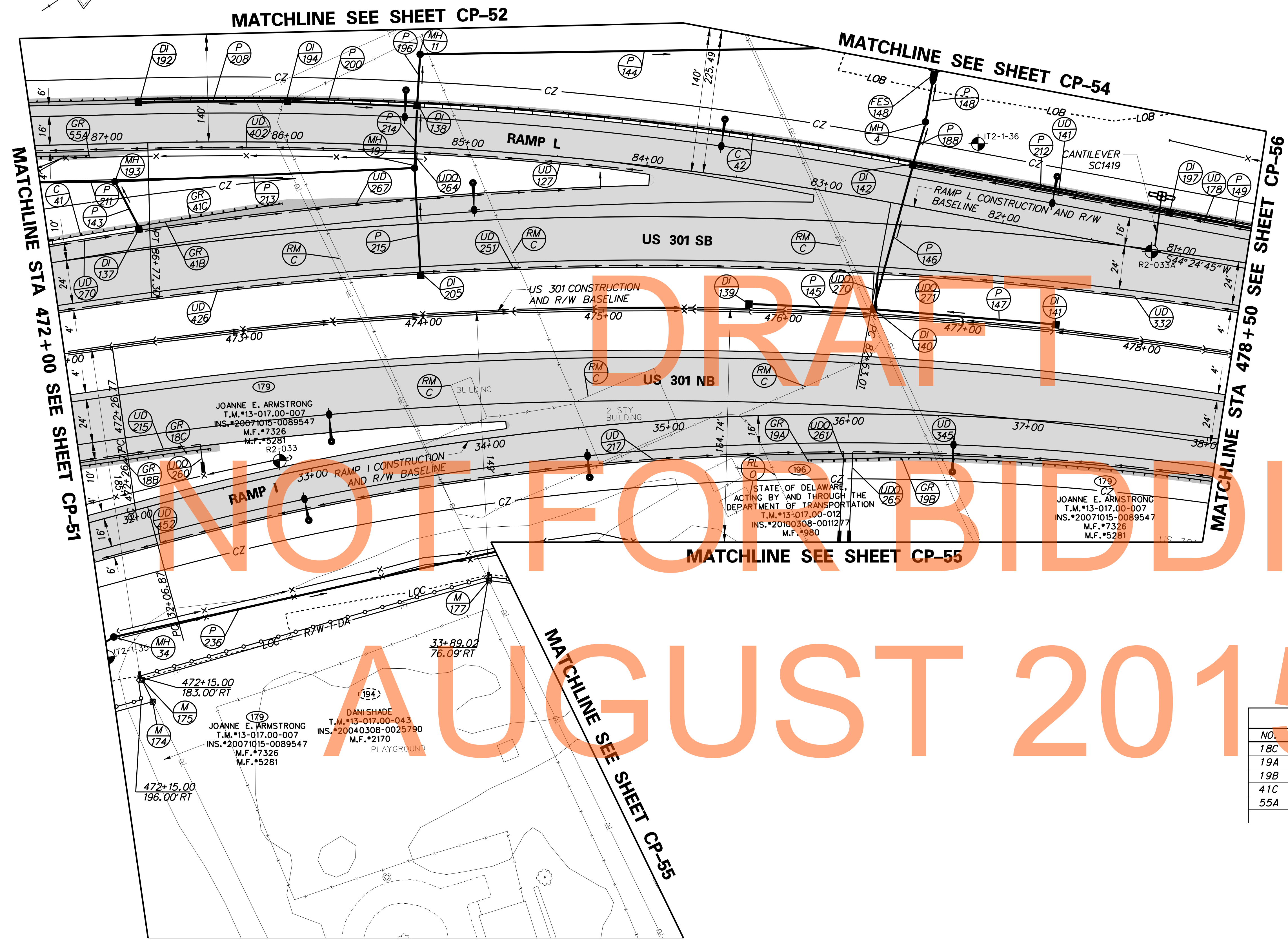
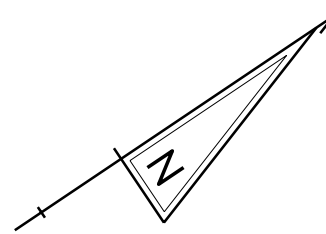
CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-52
SHEET NO.
119
TOTAL SHTS.
1256

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**DELAWARE
 DEPARTMENT OF TRANSPORTATION**



DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
143	18" RCP	IV	26.5'	0.0540	80.72	79.29
144	24" RCP	IV	255.0'	0.0021	63.55	63.01
145	18" RCP	IV	65.5'	0.0066	77.50	77.07
146	24" RCP	IV	81.0'	0.0048	76.57	76.18
147	18" RCP	IV	97.5'	0.0044	77.50	77.07
148	24" RCP	IV	19.5'	0.0060	64.52	64.40
149	18" RCP	IV	176.5'	0.0030	81.08	80.55
188	24" RCP	IV	21.5'	0.0240	73.45	72.93
196	24" RCP	V	19.0'	0.0021	63.68	63.64
200	18" RCP	IV	68.5'	0.0050	75.77	75.43
208	18" RCP	IV	76.5'	0.0050	76.36	75.97
212	18" RCP	IV	141.0'	0.0030	80.35	79.93
213	24" RCP	V	162.0'	0.0021	64.29	63.95
214	24" RCP	V	36.0'	0.0021	63.85	63.78
215	18" RCP	IV	57.0'	0.0236	81.00	79.66
236	24" RCP	IV	218.0'	0.0038	62.88	62.06

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
137	472+50.0	-63.9'	72" X 24"	DOUBLE 2	88.95	80.72
138	85+28.7	30.0'	48" X 48"	SINGLE 2	85.07	63.68
139	475+80.9	-3.3'	48" X 30"	SINGLE 2	81.07	77.50
140	476+50.0	-3.3'	48" X 30"	SINGLE 2	80.84	76.57
141	477+51.3	-3.3'	48" X 30"	SINGLE 2	81.15	77.50
142	82+54.8	23.9'	48" X 30"	SINGLE 2	86.44	73.45
192	86+79.1	35.2'	48" X 30"	SINGLE 2	81.36	76.36
194	86+00.0	32.3'	48" X 30"	SINGLE 2	83.63	75.77
197	81+10.0	23.9'	48" X 30"	SINGLE 2	86.91	80.35
205	474+00.0	-21.1'	34" X 24"	SINGLE 2	85.87	81.00

MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
4	82+52.4	47.5'	ROUND 4'	76.69	64.52
11	85+28.8	51.2'	BOX 54" X 54"	76.35	63.55
19	85+28.7	-11.9'	BOX 54" X 54"	85.06	63.85
34	31+70.0	64.8'	ROUND 4'	70.83	62.88
193	86+96.0	-21.0'	ROUND 4'	83.29	64.29

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
260	19	81.09
261	53	69.57
264	12	81.51
265	53	69.54
270	25	78.34
271	25	78.34

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
41	CONCRETE CURB AND CUTTER, TYPE 1-4	54.00
42	CONCRETE CURB AND CUTTER, TYPE 1-4	625.00

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
18C	END ANCHORAGE TYPE 31	472+59.7	63.00'	12.50'
19A	END TREATMENT ATT, TYPE 1	35+80.2	A	50.00'
19B	GALVANIZED SBGR, TYPE 1	36+30.2	23.75'	725.00'
41C	END TREATMENT ATT, TYPE 1	472+77.8	A	50.00'
55A	END TREATMENT ATT, TYPE 1	87+61.8	A	50.00'

A = OFFSET ATTENUATOR PER CONSTRUCTION DETAILS

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
148	24" RCP	0.0060	NO

DRAFT

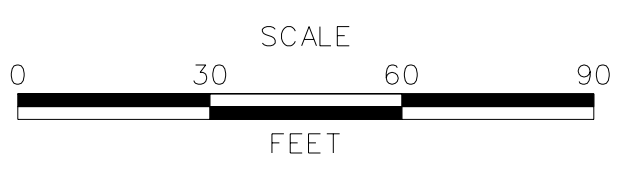
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AUGUST 2015

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ADDENDUMS / REVISIONS



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT T20091303	BRIDGE NO.	
COUNTY NEW CASTLE	DESIGNED BY:	JAM
	CHECKED BY:	SF

CONSTRUCTION PLAN

CP-53
SHEET NO. 120
TOTAL SHTS. 1256

DRAFT

NOT FOR BIDDING

AUGUST 2015

179
 JOANNE E. ARMSTRONG
 T.M.#13-017.00-007
 INS.#20071015-0089547
 M.F.#7326
 M.F.#5281

202
 ALICE VIRGINIA WESTROD
 AND STEPHANIE ANN WESTROD
 T.M.#13-012.00-010
 D.R.2592-283

179
 JOANNE E. ARMSTRONG
 T.M.#13-017.00-007
 INS.#20071015-0089547
 M.F.#7326
 M.F.#5281

198
 STATE OF DELAWARE,
 DEPARTMENT OF TRANSPORTATION
 T.M.#13-012.00-103
 INS.#20090629-0041921
 M.F.#1192

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
301	18" RCP	IV	24.5'	0.0066	63.96	63.80

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
63	18" RCP	0.0066	NO
64	18" RCP	0.0066	NO
144	24" RCP	0.0021	NO

NOTES:

- 1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASINS (TYP)

STATE OF DELAWARE,
 ACTING BY AND THROUGH THE
 DEPARTMENT OF TRANSPORTATION
 T.M.#13-017.00-012
 INS.#20100308-0011277
 M.F.#980

MATCHLINE SEE SHEET CP-53

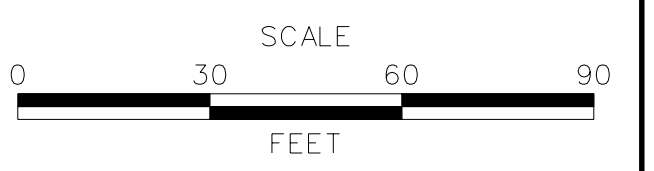
MATCHLINE SEE SHEET CP-56

MATCHLINE SEE SHEET CP-52

BMP No. 686
 TYPE: WET POND
 FROM STA. 83+04
 TO 479+85



ADDENDUMS / REVISIONS



**US 301
 LEVELS ROAD
 TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-54
SHEET NO.
121
TOTAL SHTS.
1256

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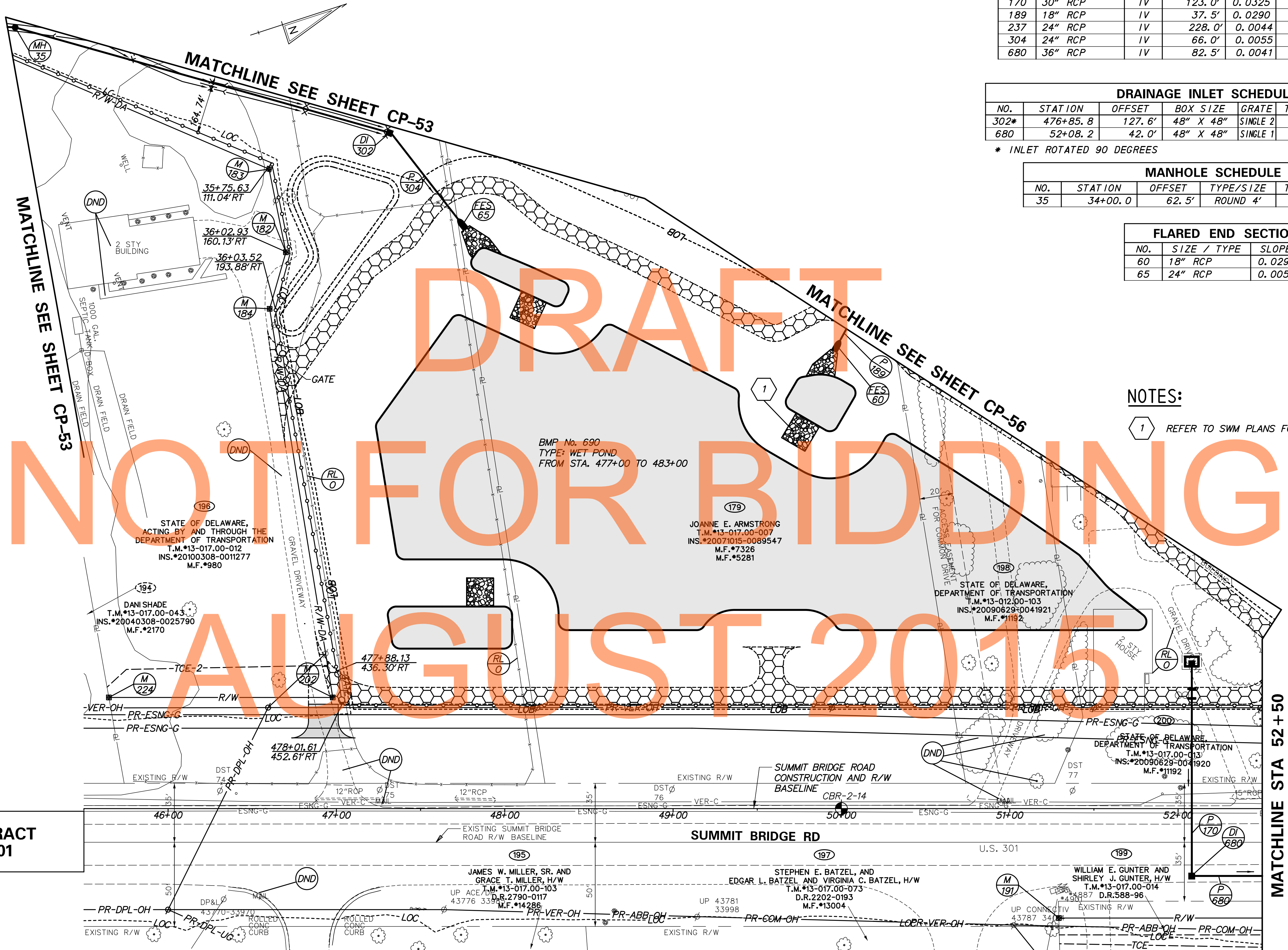
DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
170	30" RCP	IV	123.0'	0.0325	57.90	53.90
189	18" RCP	IV	37.5'	0.0290	61.51	60.43
237	24" RCP	IV	228.0'	0.0044	61.86	60.85
304	24" RCP	IV	66.0'	0.0055	60.65	60.29
680	36" RCP	IV	82.5'	0.0041	53.40	53.06

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
302*	476+85.8	127.6'	48" X 48"	SINGLE 2	68.84	60.65
680	52+08.2	42.0'	48" X 48"	SINGLE 1	63.13	53.40

* INLET ROTATED 90 DEGREES

MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
35	34+00.0	62.5'	ROUND 4'	69.99	61.86

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
60	18" RCP	0.0290	NO
65	24" RCP	0.0055	NO



NOTES:

1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASINS (TYP)

DRAFT

NOT FOR BIDDING

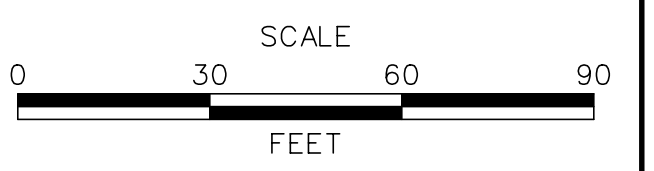
AUGUST 2015

SEE CONTRACT
T201011301

MATCHLINE STA 52+50
SEE SHEET CP-58



ADDENDUMS / REVISIONS



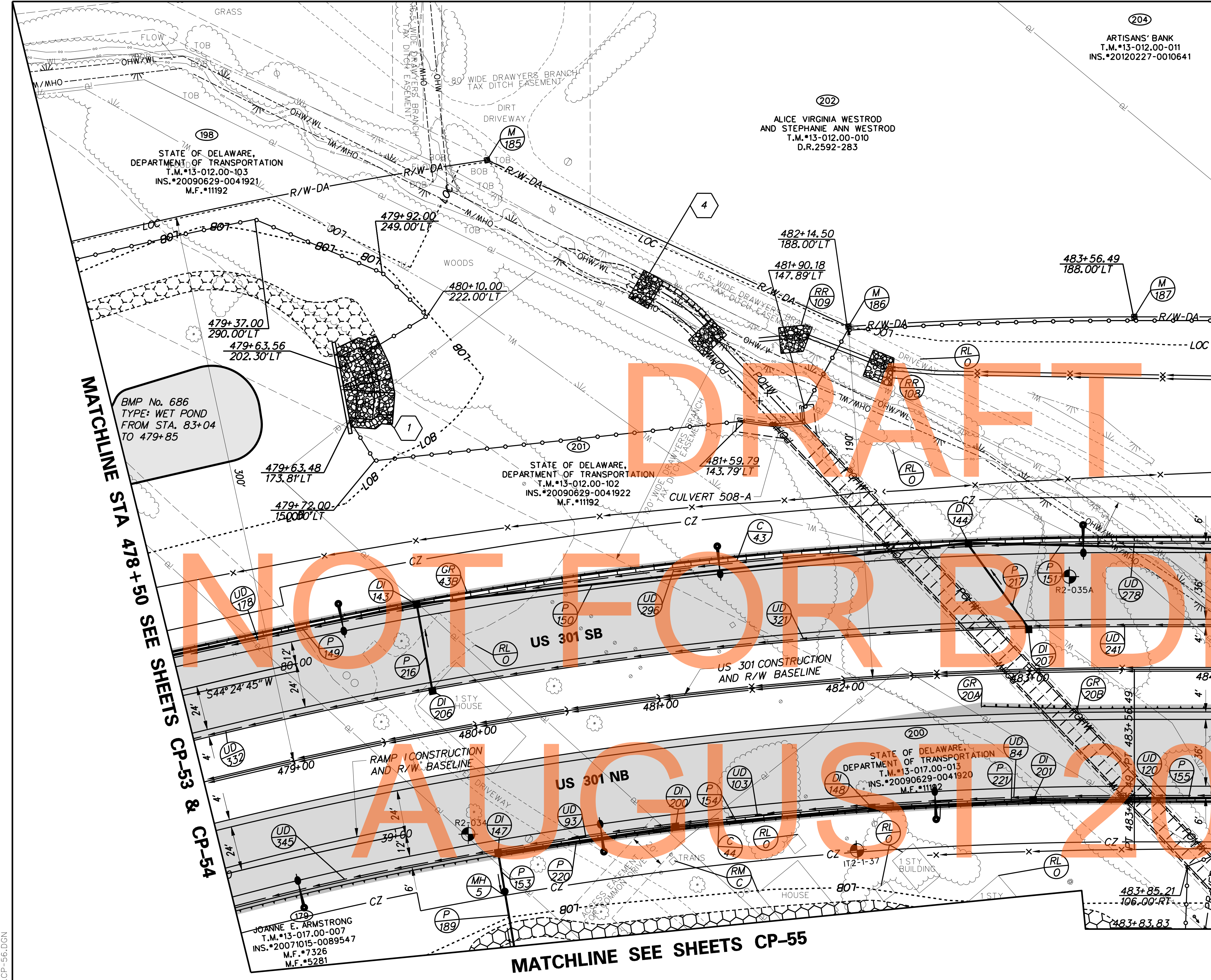
**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT T200911303	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: JAM
	CHECKED BY: SF

CONSTRUCTION PLAN

CP-55
SHEET NO. 122
TOTAL SHTS. 1256

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20A
ARTISANS' BANK
T.M.#13-012.00-011
INS.#20120227-0010641

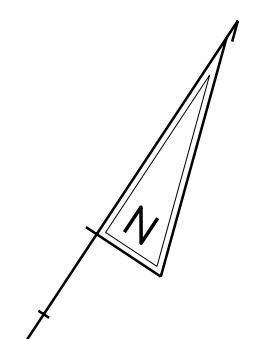
202
ALICE VIRGINIA WESTROD
AND STEPHANIE ANN WESTROD
T.M.#13-012.00-010
D.R.2592-283

198
STATE OF DELAWARE,
DEPARTMENT OF TRANSPORTATION
T.M.#13-012.00-103
INS.#20090629-0041921
M.F.#11192

STATE OF DELAWARE,
DEPARTMENT OF TRANSPORTATION
T.M.#13-012.00-102
INS.#20090629-0041922
M.F.#11192

200
STATE OF DELAWARE,
DEPARTMENT OF TRANSPORTATION
T.M.#13-017.00-013
INS.#20090629-0041920
M.F.#11192

129
JOANNE E. ARMSTRONG
T.M.#13-017.00-007
INS.#20071015-0089547
M.F.#7326
M.F.#5281



RIPRAP SCHEDULE

NO.	TYPE	AREA (SY)
108	R-4	25
109	R-4	25

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
150	18" RCP	IV	295.5'	0.0030	83.63	82.75
151	18" RCP	IV	277.5'	0.0040	85.45	84.34
153	18" RCP	IV	18.0'	0.0500	72.07	71.17
154	18" RCP	IV	102.5'	0.0073	78.26	77.51
155	18" RCP	IV	119.0'	0.0163	81.74	79.80
216	18" RCP	IV	46.0'	0.0030	81.42	81.28
217	18" RCP	IV	55.5'	0.0030	84.00	83.83
220	18" RCP	IV	93.0'	0.0071	77.31	76.65
221	18" RCP	IV	83.0'	0.0137	79.60	78.46

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
143	479+80.0	-70.9'	48" X 30"	SINGLE 2	88.22	81.08
144	482+70.0	-70.9'	48" X 30"	SINGLE 2	90.43	83.63
147	480+00.0	70.9'	48" X 30"	SINGLE 2	82.40	72.07
148	482+10.0	70.9'	48" X 30"	SINGLE 2	84.21	78.26
200	481+00.0	70.9'	48" X 30"	SINGLE 2	83.26	77.31
201	483+00.0	70.9'	48" X 30"	SINGLE 2	85.55	79.60
206	479+80.0	-21.1'	34" X 24"	SINGLE 2	85.96	81.42
207	483+00.0	-21.1'	34" X 24"	SINGLE 2	88.62	84.00

MANHOLE SCHEDULE

NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
5	480+00.0	90.9'	ROUND 4'	75.80	61.51

CURB SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	LENGTH
43	CONCRETE CURB AND CUTTER, TYPE 1-4	567.00
44	CONCRETE CURB AND GUTTER, TYPE 1-4	391.00

GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
20A	END TREATMENT ATT, TYPE 1	482+73.5	A	50.00'
20B	GALVANIZED SBGR, TYPE 1	483+25.6	21.08'	137.50'

A = OFFSET ATTENUATOR PER CONSTRUCTION DETAILS

NOTES:

- 1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASINS (TYP)
- 4 REFER TO STREAM RELOCATION PLAN FOR RIPRAP SCHEDULE AND DETAIL

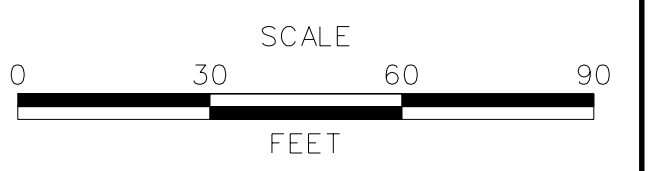
MATCHLINE STA 478+50 SEE SHEETS CP-53 & CP-54

MATCHLINE STA 484+00 SEE SHEETS CP-57 & CP-58

MATCHLINE SEE SHEETS CP-55



ADDENDUMS / REVISIONS



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

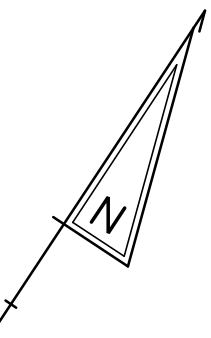
CP-56
SHEET NO.
123
TOTAL SHTS.
1256

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
45	CONCRETE CURB AND CUTTER, TYPE 1-4	185.00
46	CONCRETE CURB AND GUTTER, TYPE 1-4	40.00
47	CONCRETE CURB AND GUTTER, TYPE 1-4	262.00
48	CONCRETE CURB AND GUTTER, TYPE 1-4	412.00
89	CONCRETE CURB AND GUTTER, TYPE 1-4	53.00
90	CONCRETE CURB AND GUTTER, TYPE 1-4	15.00
91	CONCRETE CURB AND GUTTER, TYPE 1-4	61.00
95	CONCRETE CURB AND GUTTER, TYPE 1-4	17.00

MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	TOP EL.	INV. EL.
3	489+40.0	-123.0'	BOX 48" X 48"	66.00	58.81
13	489+57.0	95.0'	BOX 54" X 54"	84.00	58.20
806	491+40.7	72.8'	BOX 54" X 54"	95.00	59.32

SEE CONTRACT
T201011301

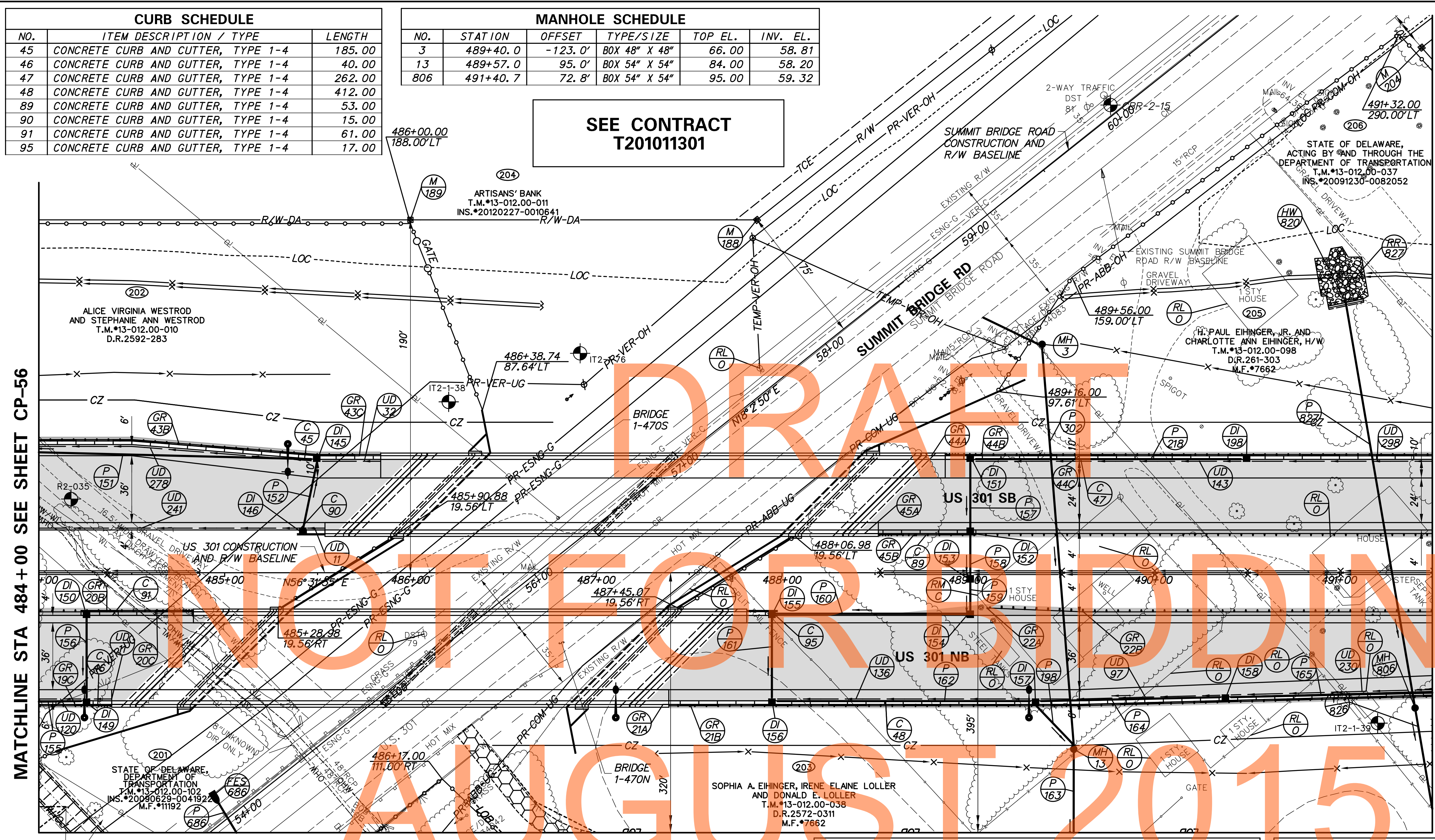
RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
827	R-5	73



FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
686	18" RCP	0.0030	YES

NOTES:

- INFLOW PIPE TO MH 3 IS PROPOSED WITH CONTRACT 2B.



MATCHLINE STA 484+00 SEE SHEET CP-56

MATCHLINE STA 491+50 SEE SHEET CP-59

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
145	485+49.6	-62.9'	72" X 48"	DOUBLE 2	90.60	85.45
146	485+42.1	-21.1'	34" X 24"	SINGLE 2	90.38	85.80
149	484+25.7	70.9'	72" X 48"	DOUBLE 2	87.69	81.74
150	484+25.7	21.1'	34" X 24"	SINGLE 2	88.80	84.05
151	489+01.3	-62.9'	72" X 48"	DOUBLE 2	92.75	87.87
152	489+01.3	-21.1'	34" X 24"	SINGLE 2	93.47	87.56
153	489+01.3	3.3'	34" X 24"	SINGLE 2	90.89	86.76
154	489+01.3	21.1'	48" X 30"	SINGLE 2	93.47	86.51
155	487+94.5	21.1'	48" X 30"	SINGLE 2	92.55	85.64
156	487+94.5	70.9'	72" X 48"	DOUBLE 2	91.75	85.31
157	489+36.4	70.9'	72" X 48"	DOUBLE 2	92.97	80.90
158	490+38.7	68.8'	72" X 48"	DOUBLE 2	93.89	86.64
198	490+50.0	-62.9'	72" X 48"	DOUBLE 2	94.03	88.50

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
152	18" RCP	IV	37.5'	0.0040	85.80	85.65
156	18" RCP	IV	44.5'	0.0249	84.05	82.94
157	18" RCP	IV	36.5'	0.0030	87.87	87.76
158	18" RCP	IV	23.5'	0.0253	87.56	86.96
159	18" RCP	IV	17.0'	0.0031	86.76	86.71
160	18" RCP	IV	103.0'	0.0065	86.51	85.84
161	18" RCP	IV	44.0'	0.0030	85.64	85.51
162	18" RCP	IV	136.0'	0.0040	85.31	84.77
163	36" RCP	V	71.5'	0.0028	58.20	58.00
164	18" RCP	IV	96.5'	0.0050	86.64	86.16
165	18" RCP	IV	229.0'	0.0050	87.98	86.84
198	18" RCP	IV	30.0'	0.0500	80.90	79.40
218	18" RCP	IV	143.0'	0.0030	88.50	88.07
302	36" DIP	-	214.5'	0.0028	58.81	58.20
826	42" RCP	V	72.0'	0.0030	59.32	59.10
827	42" RCP	V	221.0'	0.0030	59.99	59.33
686	18" RCP	IV	51.0'	0.0030	56.71	56.56

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
19C	GR TO BARRIER CONN, APPR TYPE 1	484+19.5	70.92'	19.75'
20C	GR TO BARRIER CONN, APPR TYPE 1	484+63.5	21.08'	19.75'
21A	GR TO BARRIER CONN, EXIT TYPE 31	487+39.0	70.92'	11.50'
21B	GALVANIZED SBGR, TYPE 1	487+50.4	70.92'	525.00'
22A	GR TO BARRIER CONN, APPR TYPE 1	489+12.1	A	50.00'
22B	GALVANIZED SBGR, TYPE 1	489+62.1	21.08'	337.50'
43C	GR TO BARRIER CONN, EXIT TYPE 31	485+72.5	-62.92'	11.50'
44A	GR TO BARRIER CONN, APPR TYPE 1	488+87.8	62.92'	19.75'
44B	GALVANIZED SBGR, TYPE 1	489+07.6	62.92'	475.00'
45A	GR TO BARRIER CONN, APPR TYPE 1	488+51.8	-21.08'	19.75'
45B	GALVANIZED SBGR, TYPE 1	488+71.6	-21.08'	487.50'

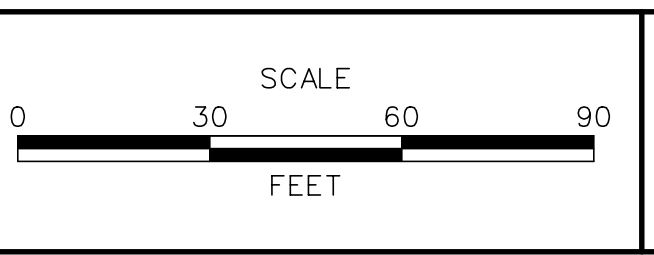
A = OFFSET ATTENUATOR PER CONSTRUCTION DETAILS
LENGTHS FOR BARRIER CONNECTIONS ARE MEASURED FROM THE END OF BARRIER WALL FOR LAYOUT PURPOSES AND ARE PAID FOR AS AN (AE.) ITEM.

STATE OF DELAWARE, DEPARTMENT OF TRANSPORTATION
T.M.#13-012-00-113
INS.#20090629-0041920
M.F.#11192

CULVERT 508-A

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	



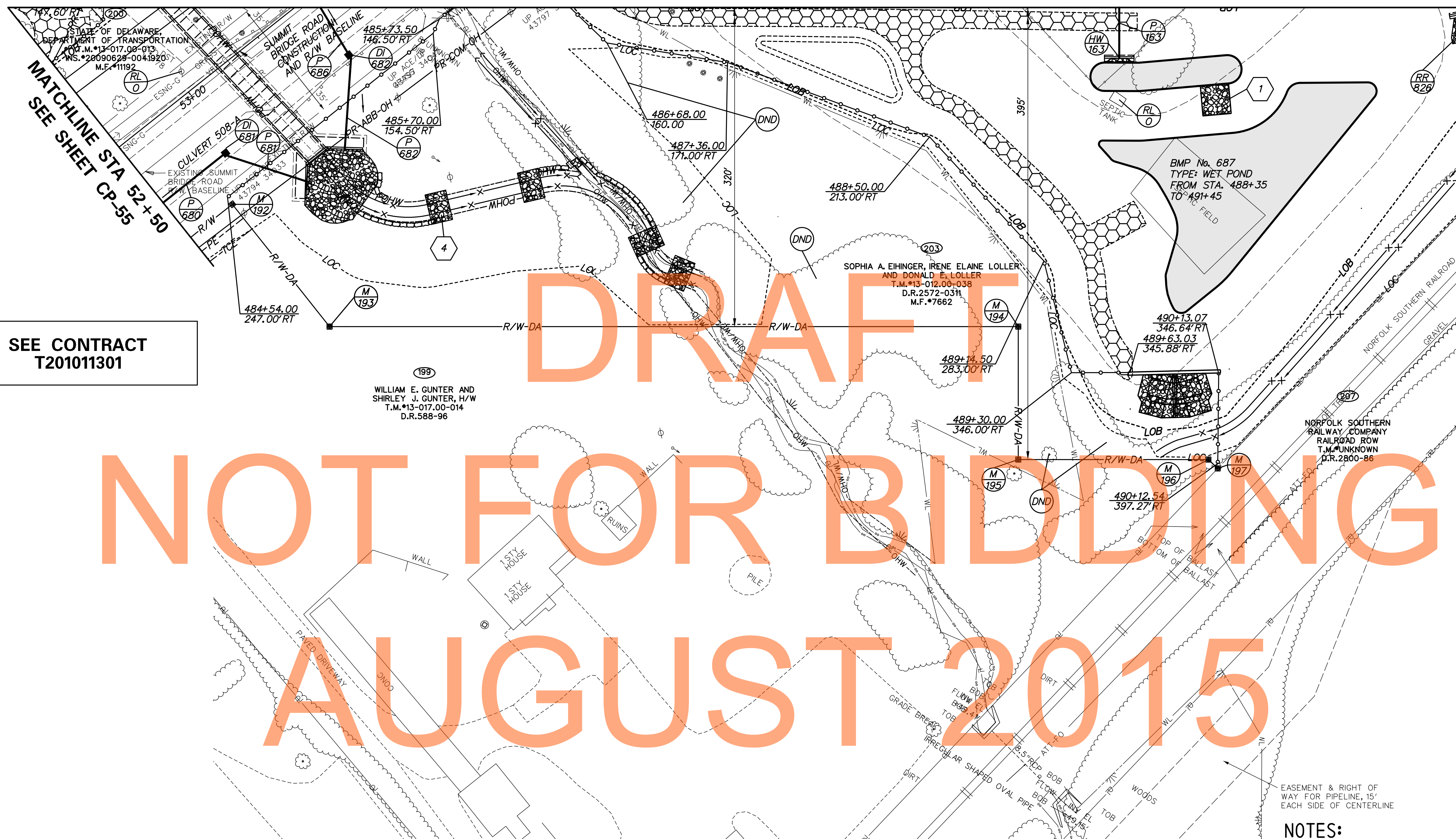
US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN	
CP-57	SHEET NO.
124	TOTAL SHTS.
1256	

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MATCHLINE SEE SHEET CP-57



SEE CONTRACT
T201011301

DRAFT

NOT FOR BIDDING

AUGUST 2015

NOTES:

- 1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASINS (TYP)
- 4 REFER TO STREAM RELOCATION PLAN FOR RIPRAP SCHEDULE AND DETAIL

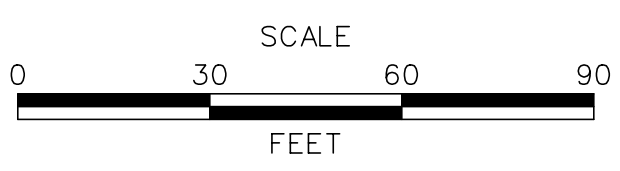
DRAINAGE PIPE SCHEDULE							
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.	
681	36" RCP	IV	47.0'	0.0030	53.06	52.92	
682	18" RCP	IV	52.0'	0.0358	56.36	54.50	

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
681	52+95.00	42.0'	66" X 48"	SINGLE 1	62.87	53.06
682	53+83.83	42.0'	48" X 30"	SINGLE 1	62.86	56.36

RIPRAP SCHEDULE		
NO.	TYPE	AREA (SY)
826	R-5	33



ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

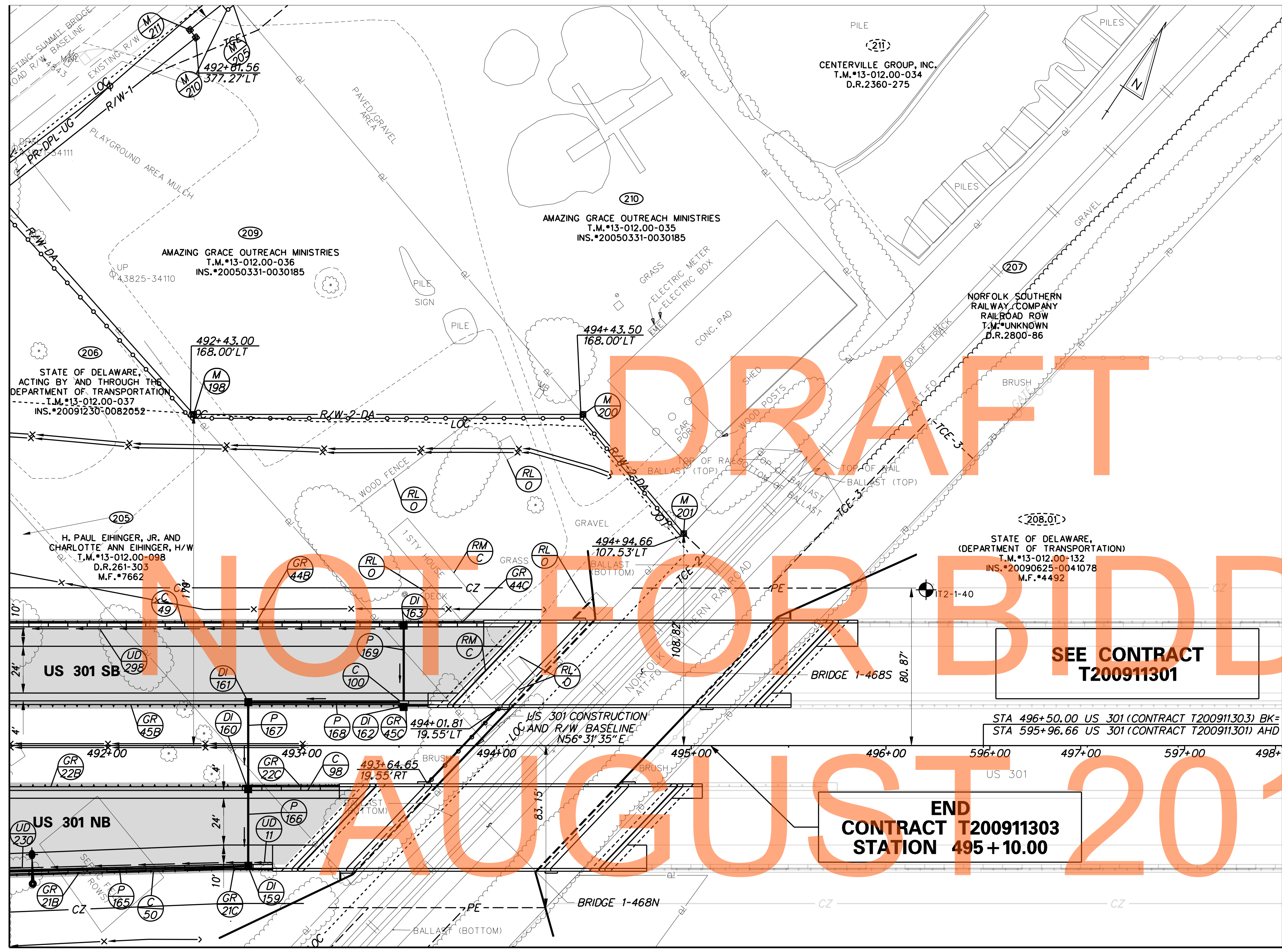
CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-58
SHEET NO.
125
TOTAL SHTS.
1256

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MATCHLINE STA 491+50 SEE SHEET CP-57



MATCHLINE SEE SHEET CP-60

DRAINAGE PIPE SCHEDULE							
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.	
166	18" RCP	IV	38.0'	.0050	88.37	88.18	
167	18" RCP	IV	42.0'	.0050	88.78	88.57	
168	18" RCP	IV	76.0'	.0050	89.36	88.98	
169	18" RCP	IV	38.0'	.0050	89.75	89.56	

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T. G. EL.	INV. EL.
159	492+72.6	62.9'	48" X 30"	SINGLE 2	95.53	87.98
160	492+72.6	21.1'	34" X 24"	SINGLE 2	96.25	88.37
161	492+72.6	-21.1'	48" X 30"	SINGLE 2	96.25	88.78
162	493+52.4	-21.1'	48" X 30"	SINGLE 2	96.40	89.36
163	493+52.4	-62.9'	34" X 24"	SINGLE 2	95.52	89.75

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
21C	GR TO BARRIER CONN, APPR TYPE 1	492+65.4	62.92'	19.75'
22C	GR TO BARRIER CONN, APPR TYPE 1	492+99.6	21.08'	19.75'
44C	GR TO BARRIER CONN, EXIT TYPE 31	493+82.0	-62.92'	11.50'
45C	GR TO BARRIER CONN, EXIT TYPE 31	493+53.5	-21.08'	11.50'

A = OFFSET ATTENUATOR PER CONSTRUCTION DETAILS
 LENGTHS FOR BARRIER CONNECTIONS ARE MEASURED FROM THE END OF BARRIER WALL FOR LAYOUT PURPOSES AND ARE PAID FOR AS AN (EACH) ITEM.

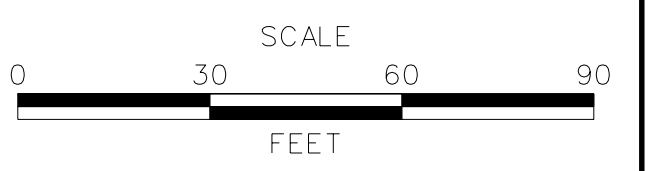
CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
49	CONCRETE CURB AND CUTTER, TYPE 1-4	244.00
50	CONCRETE CURB AND GUTTER, TYPE 1-4	136.00
98	CONCRETE CURB AND GUTTER, TYPE 1-4	50.00
100	CONCRETE CURB AND GUTTER, TYPE 1-4	16.00

SEE CONTRACT T200911301

END CONTRACT T200911303 STATION 495+10.00

DRAFT
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AUGUST 2015

ADDENDUMS / REVISIONS

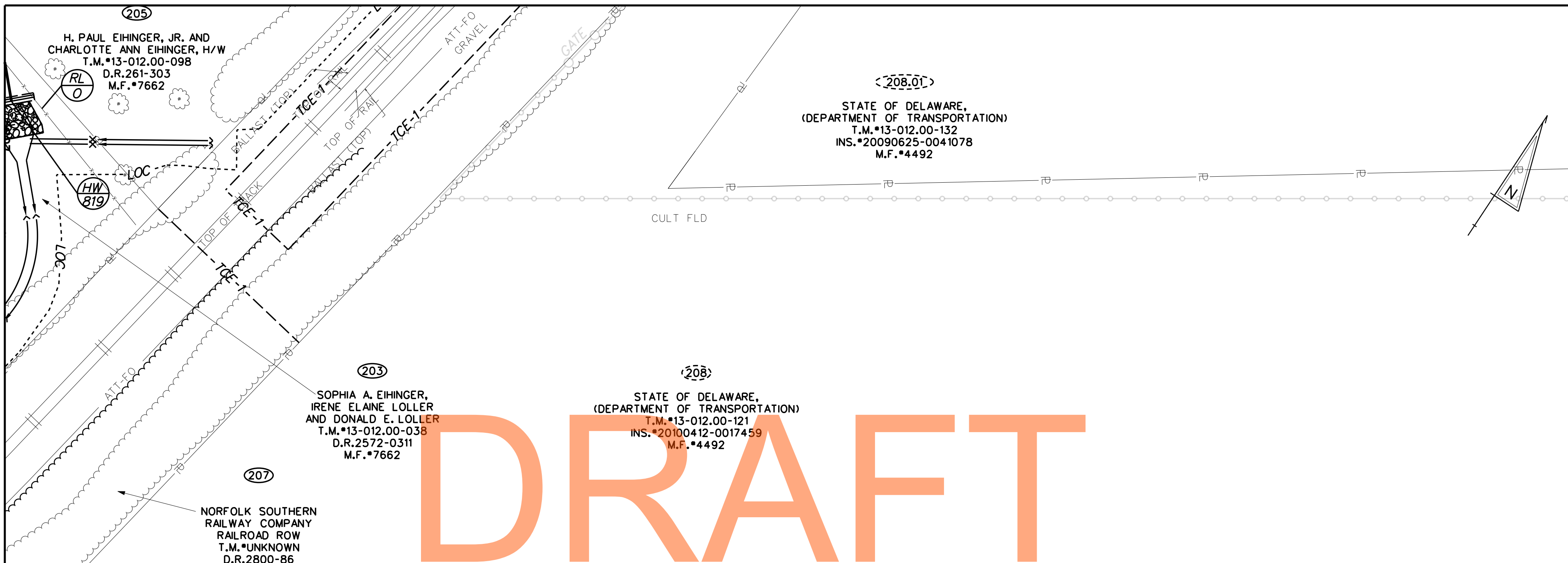


CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

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MATCHLINE SEE SHEET CP-59

MATCHLINE SEE SHEET CP-58



DRAFT

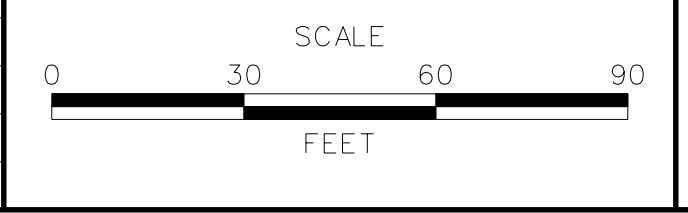
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AUGUST 2015

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ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T20091303	DESIGNED BY:	JAM
COUNTY	CHECKED BY:	SF
NEW CASTLE		

CONSTRUCTION PLAN

CP-60
SHEET NO.
127
TOTAL SHTS.
1256

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
502	13+02.00	-16.00	34" X 24"	1	66.97	62.13
503	13+02.00	16.00	34" X 24"	1	67.77	61.80
520	13+93.00	-16.00	34" X 24"	1	73.29	66.97

CURB SCHEDULE			
NO.	ITEM DESCRIPTION / TYPE	LENGTH	
C4	INTEGRAL P.C.C. CURB AND GUTTER TYPE 3-8	437.00	
C5	INTEGRAL P.C.C. CURB AND GUTTER TYPE 3-8	366.00	
C6	INTEGRAL P.C.C. CURB AND GUTTER TYPE 1-4	61.50	
C10	INTEGRAL P.C.C. CURB AND GUTTER TYPE 1-2	103.00	

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
1	END TREATMENT ATT., TYPE 2-31	13+30.66	24.00	50.00'
2	GALVANIZED SBGR, TYPE 1-31	13+30.66	24.00	200.00' *
3	END TREATMENT ATT., TYPE 1-31	14+82.74	-18.00	50.00'
4	GALVANIZED SBGR, TYPE 1-31	14+82.74	-18.00	50.00'
5	GR TO BAR. CONN., APPROACH TYPE 2-27	15+29.42	22.79	24.44'
6	GR TO BAR. CONN., EXIT TYPE 31	15+32.74	-18.00	11.50'

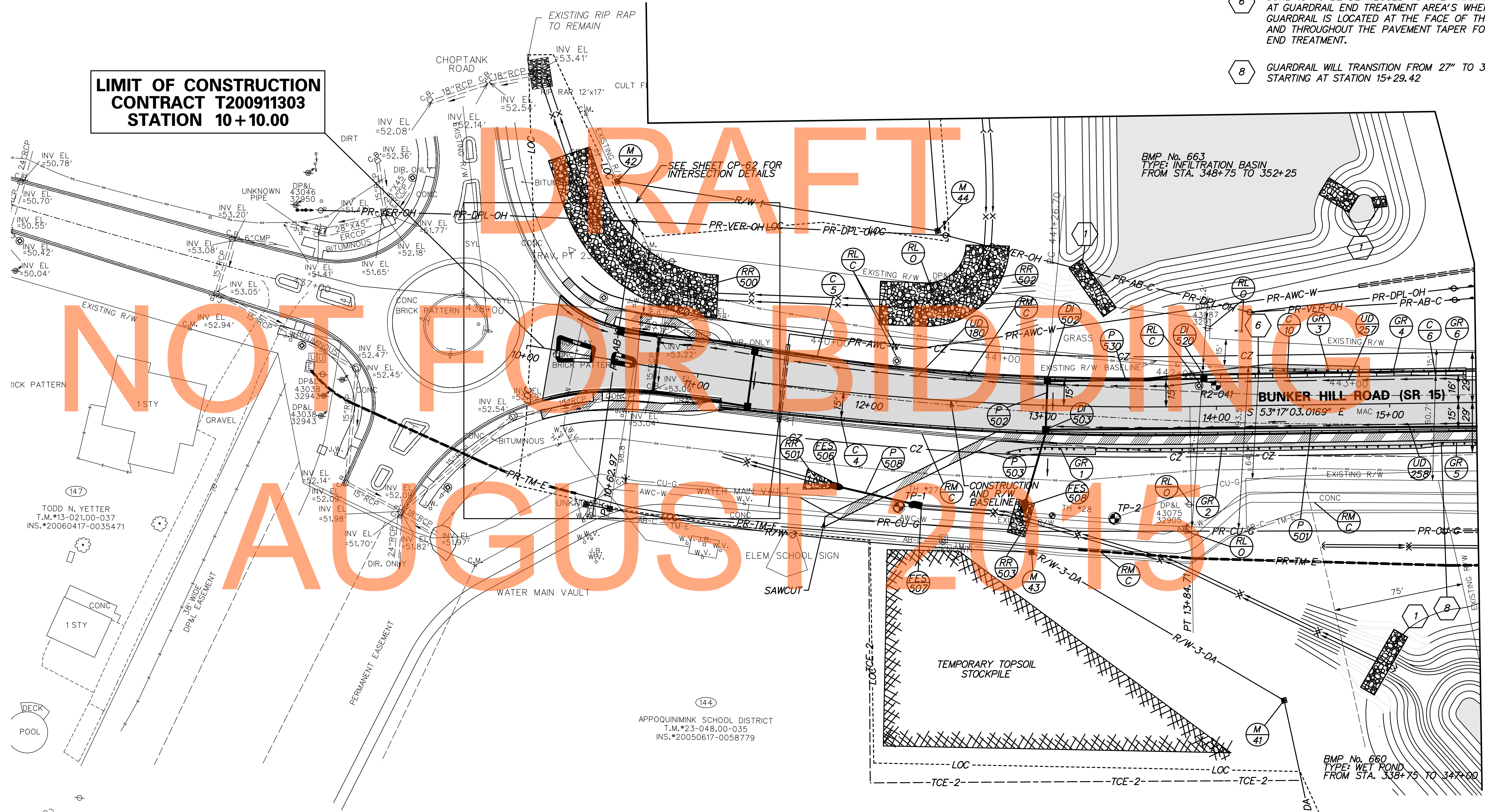
RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
500	R-6	357 SY
501	R-4	14 SY
502	R-6	226 SY
503	R-5	22 SY

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
501	18" RCP	IV	259.0'	0.0540	77.46	63.47
502	18" RCP	IV	26.0'	0.0050	62.13	62.00
503	24" RCP	IV	38.0'	0.0540	61.29	59.24
508	24" RCP	IV	42.5'	0.0134	57.93	57.36
530	18" RCP	IV	88.0'	0.0500	66.73	62.33

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
506	24" RCP	0.0134	NO
507	24" RCP	0.0134	NO
508	18" RCP	0.0665	NO

UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-27	GAS	348+16.50	448.70	61.34	3.90	6" PLASTIC
TH-28	GAS	347+90.00	370.40	63.17	3.64	6" PLASTIC

- NOTES:**
- 1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASINS (TYP)
 - 6 CURB IS TO BE DEPRESSED TO A 2" MAX HEIGHT AT GUARDRAIL END TREATMENT AREA'S WHERE THE GUARDRAIL IS LOCATED AT THE FACE OF THE CURB, AND THROUGHOUT THE PAVEMENT TAPER FOR THE END TREATMENT.
 - 8 GUARDRAIL WILL TRANSITION FROM 27" TO 31" STARTING AT STATION 15+29.42

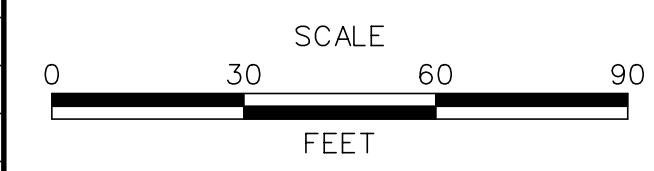


**LIMIT OF CONSTRUCTION
CONTRACT T200911303
STATION 10+10.00**

NOT FOR BIDDING
AUGUST 2015

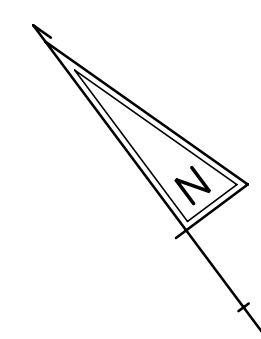
MATCHLINE STA. 15+50 SEE SHEET CP-63

ADDENDUMS / REVISIONS	



CONTRACT	T200911303
COUNTY	NEW CASTLE
BRIDGE NO.	1-475
DESIGNED BY:	JL
CHECKED BY:	MT

CP-61	SHEET NO.	128
	TOTAL SHTS.	1256

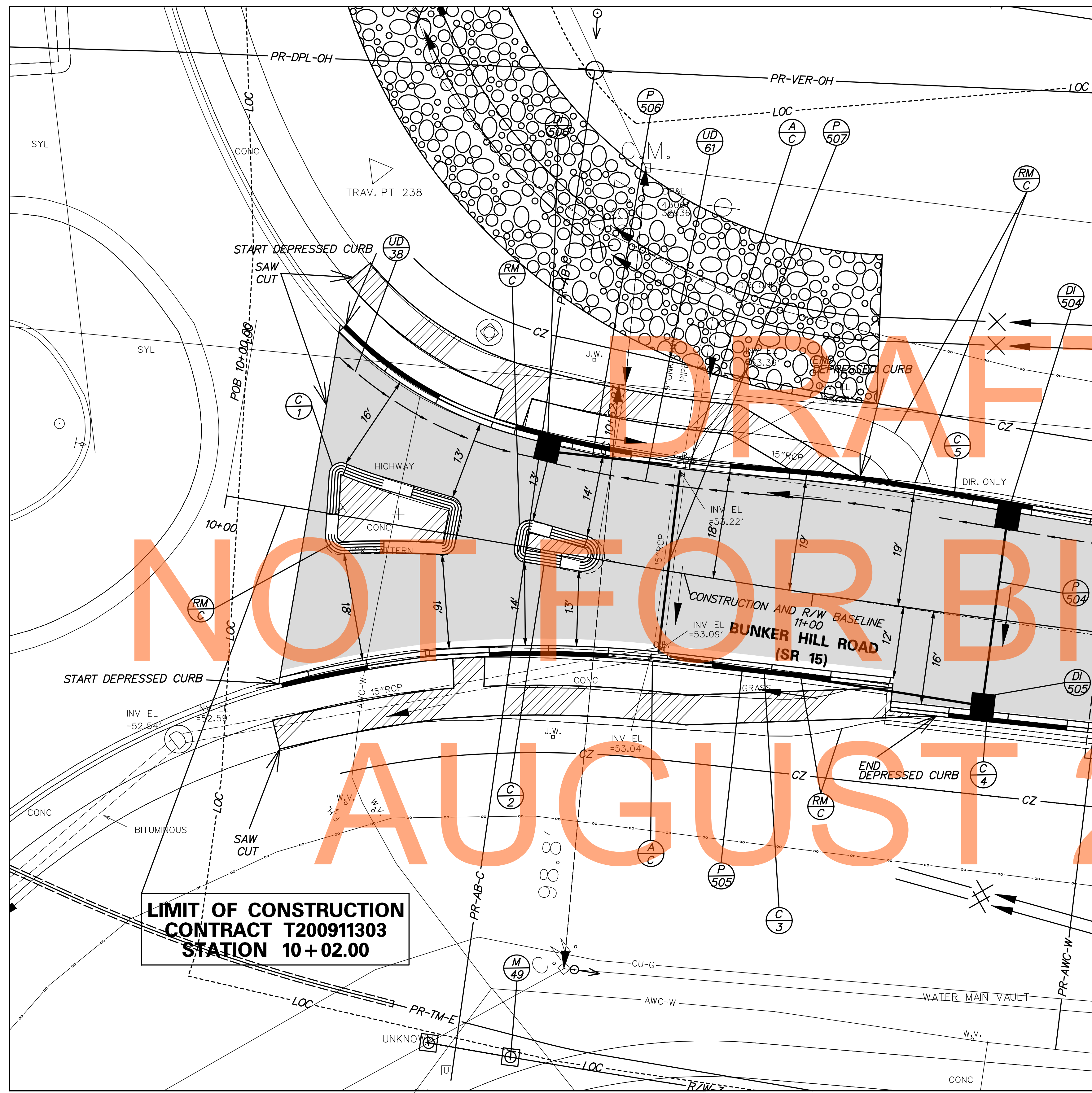


CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
C1	P. C. C. CURB, TYPE 2	66.00
C2	P. C. C. CURB, TYPE 2	38.00
C3	INTEGRAL P. C. C. CURB AND GUTTER TYPE 3-8	104.00
C4	INTEGRAL P. C. C. CURB AND GUTTER TYPE 3-8	437.00
C5	INTEGRAL P. C. C. CURB AND GUTTER TYPE 3-8	366.00

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
504	18" RCP	IV	28.0'	0.0030	53.33	53.25
505	18" RCP	IV	52.0'	0.0030	53.25	53.09
506	18" DIP *	52	19.0'	0.0028	53.28	53.22
507	18" DIP *	52	31.0'	0.0042	53.22	53.09

* REFER TO DT05 FOR PIPE BEDDING DETAIL FOR DIP WITH MINIMUM COVER

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T. G. EL.	INV. EL.
504	11+30.90	-19.26	34" X 18"	1	57.21	53.33
505	11+30.75	16.60	34" X 24"	1	58.14	53.25
506	10+52.00	-18.74	34" X 24"	1	56.50	53.27



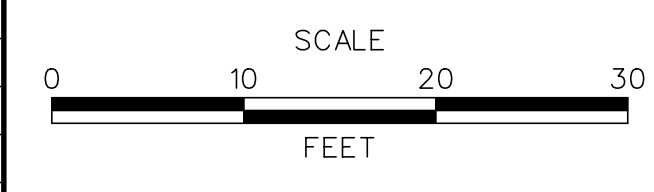
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AUGUST 2015

- NOTES:
1. CURB TO BE DEPRESSED IN AREA SPECIFIED
 2. CURB TO BE RAISED TO NORMAL HEIGHT IN AREA'S WITH EXISTING INLETS.

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ADDENDUMS / REVISIONS



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	
T200911303	DESIGNED BY:	JH
COUNTY	CHECKED BY:	MT
NEW CASTLE		

CONSTRUCTION PLAN

CP-62
SHEET NO.
129
TOTAL SHTS.
1256

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
500	18" RCP	IV	28.0'	0.0100	79.42	79.14
510	18" RCP	IV	28.0'	0.0050	86.73	86.59
511	18" RCP	IV	215.0'	0.0071	86.34	84.81
512	18" RCP	IV	28.0'	0.0050	84.95	84.81
513	18" RCP	IV	200.0'	0.0460	84.61	75.41
514	18" RCP	IV	28.0'	0.0050	75.71	75.57
515	18" RCP	IV	200.0'	0.0412	75.21	66.97
516	18" RCP	IV	51.5'	0.0210	66.77	65.69
517	15" RCP	IV	300.0'	0.0100	61.79	58.79
520	24" RCP	IV	135.0'	0.0099	63.11	61.77
521	15" RCP	IV	46.0'	0.0115	58.28	57.75

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
500	15+63.00	-18.00	34" X 18"	1	84.92	79.42
501	15+63.00	16.00	34" X 24"	1	85.00	78.89
510	17+80.00	-18.00	34" X 18"	1	92.23	86.73
511	17+80.00	16.00	34" X 24"	1	92.31	86.34
512	19+98.00	-18.00	34" X 18"	1	89.70	84.95
513	19+98.00	16.00	34" X 24"	1	89.74	84.61
514	21+98.00	-18.00	34" X 18"	1	80.51	75.71
515	21+98.00	16.00	34" X 24"	1	80.55	75.21
516	23+98.00	16.00	34" X 24"	1	72.21	66.77
519	22+27.00	69.73	48" X 30"	2	63.00	58.12

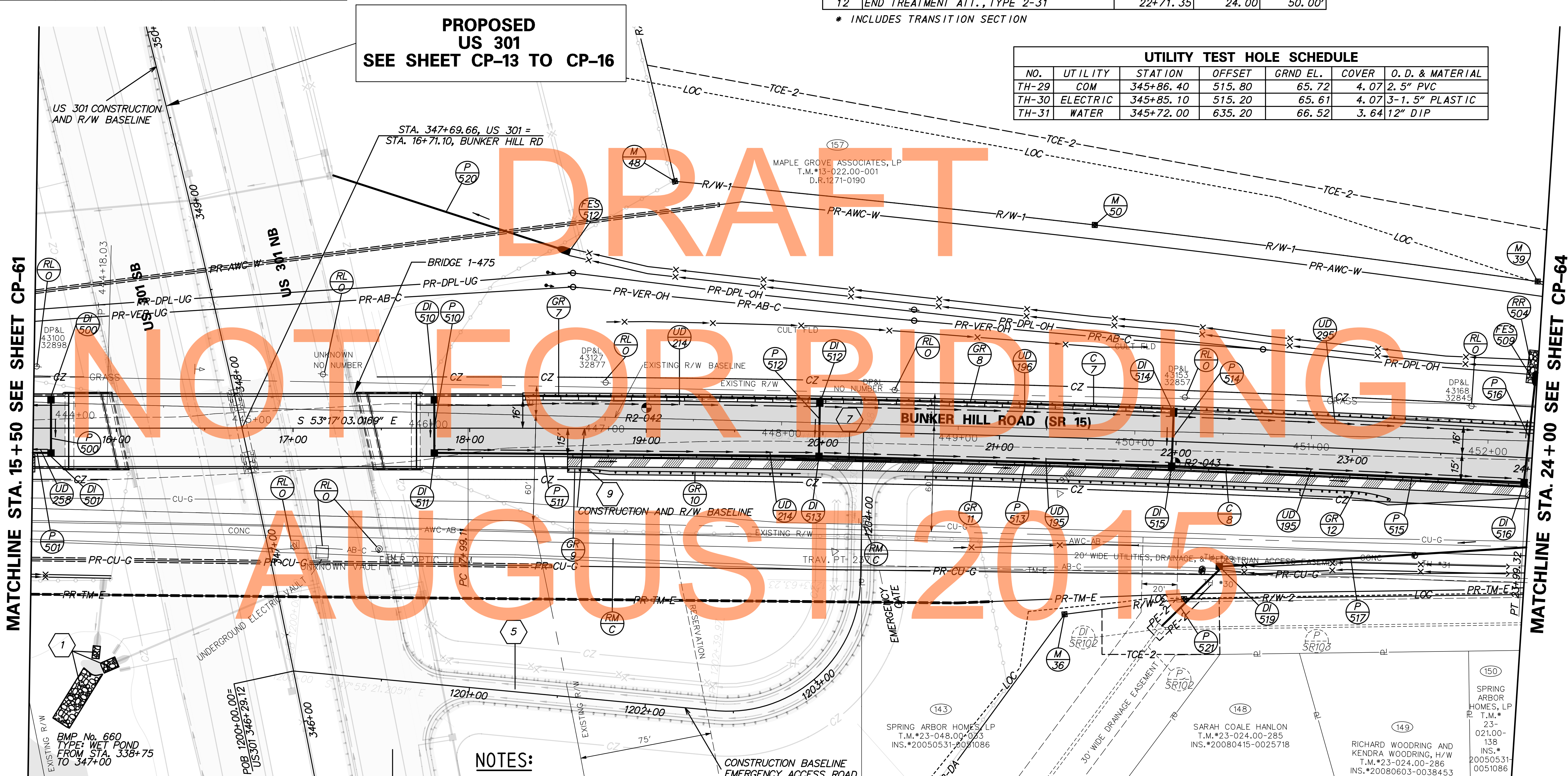
CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
C7	INTEGRAL P.C.C. CURB AND GUTTER TYPE 1-4	371.00
C8	INTEGRAL P.C.C. CURB AND GUTTER TYPE 3-8	548.00

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
509	18" RCP	0.0210	NO
512	24" RCP	0.0099	YES

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
7	GR TO BAR. CONN., APPROACH TYPE 1-31	18+30.03	-18.00	19.75'
8	GALVANIZED SBGR, TYPE 1-31	18+49.75	-18.00	562.50'
9	GR TO BAR. CONN., EXIT TYPE 27	18+55.54	22.79	11.50'
10	GALVANIZED SBGR, TYPE 1-31	18+67.07	22.79	120.00' *
11	GALVANIZED SBGR, TYPE 1-31	20+58.38	24.00	212.50'
12	END TREATMENT ATT., TYPE 2-31	22+71.35	24.00	50.00'

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
504	R-4	20 SY

UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-29	COM	345+86.40	515.80	65.72	4.07	2.5" PVC
TH-30	ELECTRIC	345+85.10	515.20	65.61	4.07	3-1.5" PLASTIC
TH-31	WATER	345+72.00	635.20	66.52	3.64	12" DIP



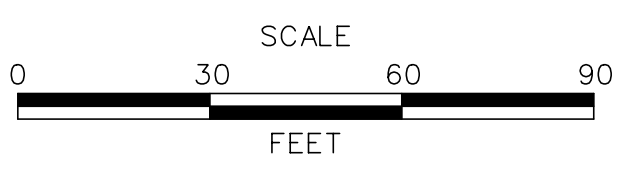
NOTES:

- 1 REFER TO SWM PLANS FOR RIPRAP WITHIN BASINS (TYP)
- 5 REFER TO PLAN SHEETS CP-13 TO CP-14 FOR US301 AND EMERGENCY ACCESS ROAD
- 7 DEPRESSED CURB AND 6" SIDEWALK IS TO BE USED AT EMERGENCY ACCESS RAMP LOCATION.
- 9 GAURDRAIL WILL TRANSITION FROM 27" TO 31" STARTING AT STATION 18+67.07.

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ADDENDUMS / REVISIONS



US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

CONTRACT	T20091303
COUNTY	NEW CASTLE
BRIDGE NO.	1-475
DESIGNED BY:	JL
CHECKED BY:	MT

CONSTRUCTION PLAN

CP-63
SHEET NO.
130
TOTAL SHTS.
1256

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
518	15" RCP	V	48.0'	0.0056	65.85	65.58
522	15" RCP	V	45.0'	0.0058	66.56	66.30

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
517	25+30.00	35.46	34" X 18"	2	64.73	62.39

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
510	15" RCP	0.0056	NO
511	15" RCP	0.0056	NO
513	15" RCP	0.0058	NO
514	15" RCP	0.0058	NO

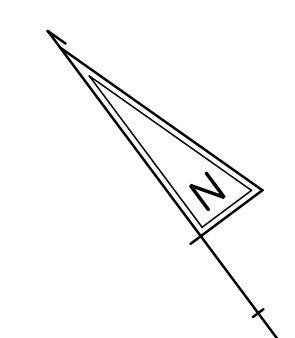
RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
505	R-4	6 SY
506	R-4	6 SY

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
5	29.0'	65.50
6	18.0'	66.08
7	17.0'	66.65
8	18.0'	66.08
9	22.3'	62.56
10	22.3'	62.56

ROADWAY CORE SCHEDULE			
NO.	STATION	OFFSET	ITEM DESCRIPTION / TYPE
10	31+00.04	6.00	10.5" HOT-MIX ASPHALT OVER 6" CR

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
13	END TREATMENT ATT., TYPE 2-31	24+11.32	-18.00	50.00'

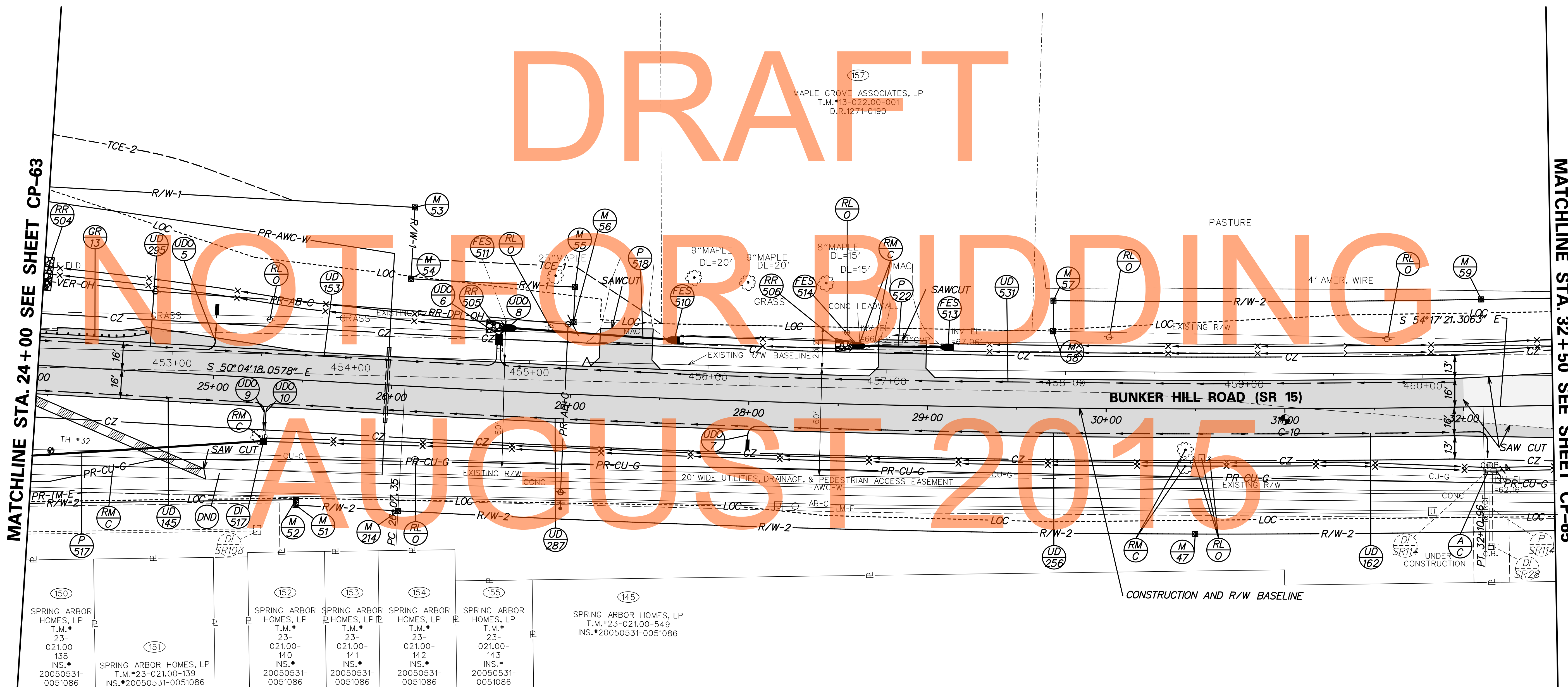
UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND. EL.	COVER	O. D. & MATERIAL
TH-32	GAS	345+66.00	708.90	66.54	3.58	6" PLASTIC



DRAFT

NOT FOR BIDDING

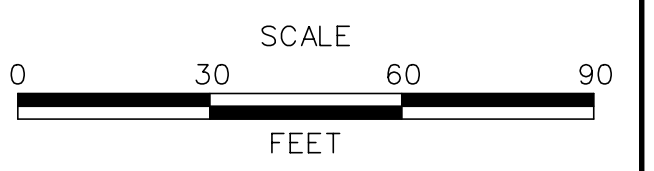
AUGUST 2015



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ADDENDUMS / REVISIONS	



**US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD**

CONTRACT	BRIDGE NO.	1-475
T20091303	DESIGNED BY:	JL
COUNTY	CHECKED BY:	MT
NEW CASTLE		

CONSTRUCTION PLAN

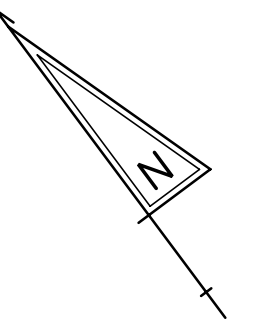
CP-64
SHEET NO.
131
TOTAL SHTS.
1256

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
523	15" RCP	IV	234.0'	0.0110	65.90	63.33
524	15" RCP	IV	47.0'	0.0070	63.33	63.00

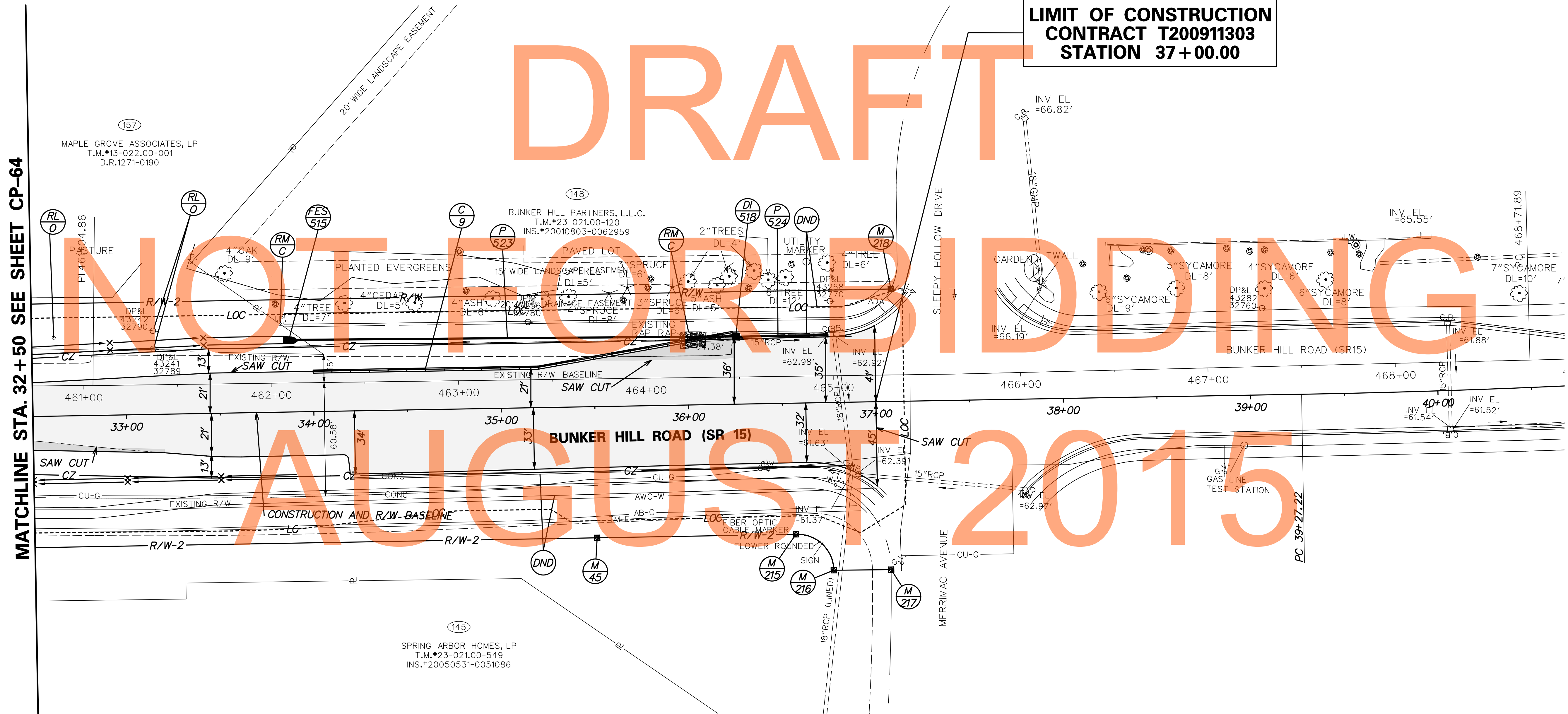
FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
515	15" RCP	0.0110	YES

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
518	36+26.00	-38.00	72" X 24"	1*	66.39	63.33

* DOUBLE INLET SECTION



CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
C9	INTEGRAL P. C. C CURB AND GUTTER TYPE 3-8	226.00



MATCHLINE STA. 32+50 SEE SHEET CP-64

**LIMIT OF CONSTRUCTION
CONTRACT T200911303
STATION 37+00.00**

DRAFT

NOT FOR BIDDING

AUGUST 2015

T:\NEW CASTLE\301\ROAD\T200911303\PLANS\CP\CP06_2A_URS.DGN

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE FEET	US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD	CONTRACT	BRIDGE NO.	1-475	CONSTRUCTION PLAN
					T200911303	DESIGNED BY:	
				COUNTY	CHECKED BY:	MT	
				NEW CASTLE			SHEET NO. 132 TOTAL SHTS. 1256