

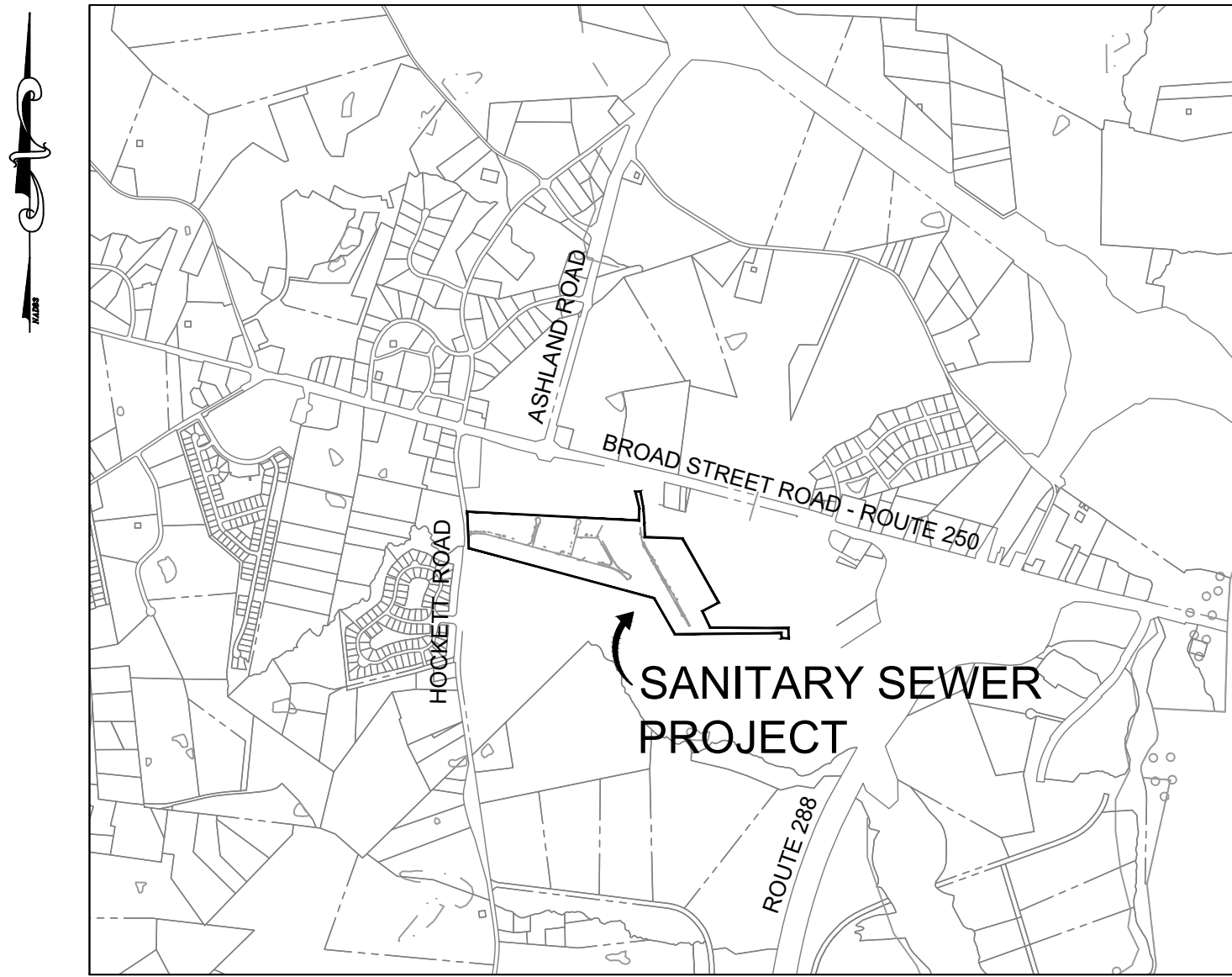
HICKORY HAVEN AND SAMARY FOREST SANITARY SEWER

60% DESIGN SUBMITTAL
GOOCHLAND COUNTY, VIRGINIA

SITE DATA

OWNER/OPERATOR
GOOCHLAND COUNTY
1800 SANDY HOOK ROAD
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ENGINEER
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EMAIL: BRUCE.STRICKLAND@TIMMONS.COM



VICINITY MAP
SCALE: 1" = 2,000'

GOOCHLAND COUNTY
MAY 14, 2019

NOTE: A VSMP REGISTRATION STATEMENT IS NOT REQUIRED FOR THIS LINEAR DEVELOPMENT PROJECT IN ACCORDANCE WITH DEQ GUIDANCE MEMO NO. 15-2003. ADDITIONALLY, THIS PROJECT ACHIEVES COMPLIANCE WITH PART IIB OF VSMP TECHNICAL CRITERIA BY A NEGLIGIBLE INCREASE IN IMPERVIOUSNESS AND NEGLIGIBLE CHANGE IN WATER QUALITY/QUANTITY.

SHEET INDEX

SHEET	DRAWING	TITLE
1	C-1	COVER SHEET
2	C-2	SHEET INDEX
3	C-3	SANITARY SEWER HYDRAULIC ANALYSIS
4	U-1	HICKORY HAVEN PLAN AND PROFILE
5	U-2	HICKORY HAVEN PLAN AND PROFILE
6	U-3	HICKORY HAVEN PLAN AND PROFILE
7	U-4	HICKORY HAVEN PLAN AND PROFILE
8	U-5	HICKORY HAVEN PLAN AND PROFILE
9	U-6	HICKORY HAVEN PLAN AND PROFILE
10	U-7	HICKORY HAVEN PLAN AND PROFILE
11	U-8	HICKORY HAVEN PLAN AND PROFILE
12	U-9	SAMARY FOREST PLAN AND PROFILE
13	U-10	SAMARY FOREST PLAN AND PROFILE
14	U-11	SAMARY FOREST PLAN AND PROFILE
15	U-12	SAMARY FOREST PLAN AND PROFILE
16	U-13	SAMARY FOREST PLAN AND PROFILE
17	U-14	SAMARY FOREST PLAN AND PROFILE
18	U-15	SAMARY FOREST PLAN AND PROFILE
19	U-16	SAMARY FOREST PLAN AND PROFILE
20	D-1	GENERAL NOTES AND DETAILS
21	D-2	GENERAL NOTES AND DETAILS

MISS UTILITY OF VIRGINIA

THE CONTRACTOR SHALL CALL "MISS UTILITY" 48 HOURS PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT THE ENGINEER IMMEDIATELY IF THE LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLAN. IF THERE APPEARS TO BE A CONFLICT, AND/OR UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON PLAN, THE DEVELOPER SHALL BE RESPONSIBLE FOR THE RELOCATION OF ANY UTILITY WITHIN THE EXISTING AND/OR RIGHT-OF-WAY REQUIRED BY THE DEVELOPMENT. CONTACT MISS UTILITY OF VIRGINIA: 1-800-552-7001 (TOLL FREE) OR DIAL 811.



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REVISION DESCRIPTION

DATE

5-14-2019

DRAWN BY

J. CARTER

DESIGNED BY

J. CARTER

CHECKED BY

B. STRICKLAND

SCALE

AS SHOWN

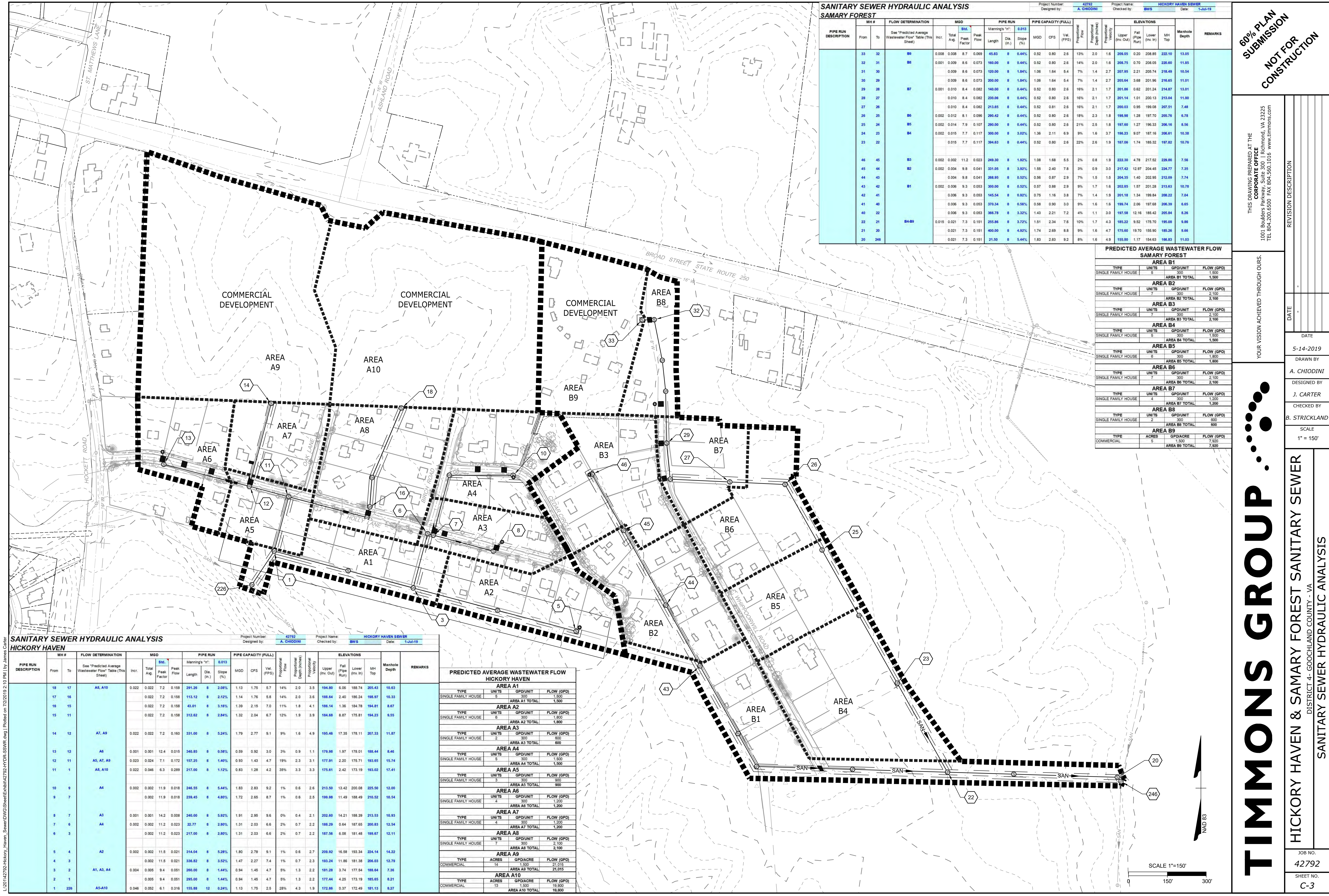
TIMMONS GROUP

HICKORY HAVEN & SAMARY FOREST SANITARY SEWER
DISTRICT 4 - GOOCHLAND COUNTY - VIRGINIA

COVER SHEET

JOB NO.
42792

SHEET NO.
C-1

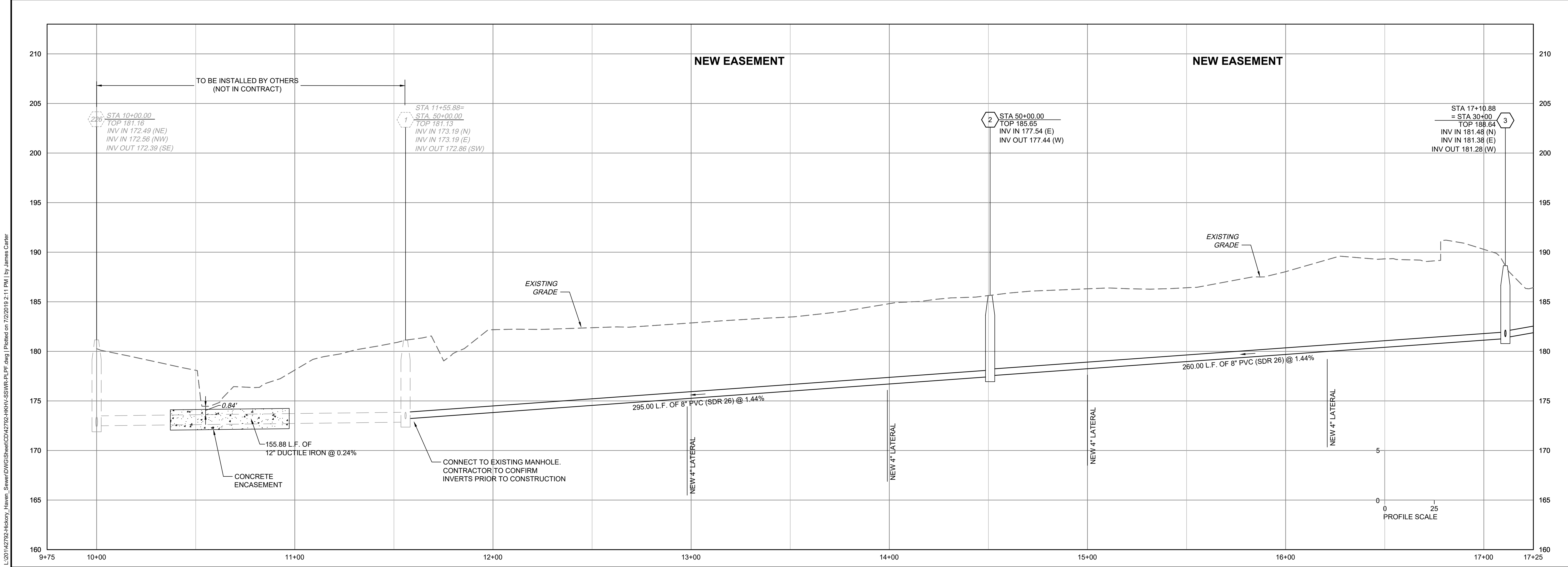
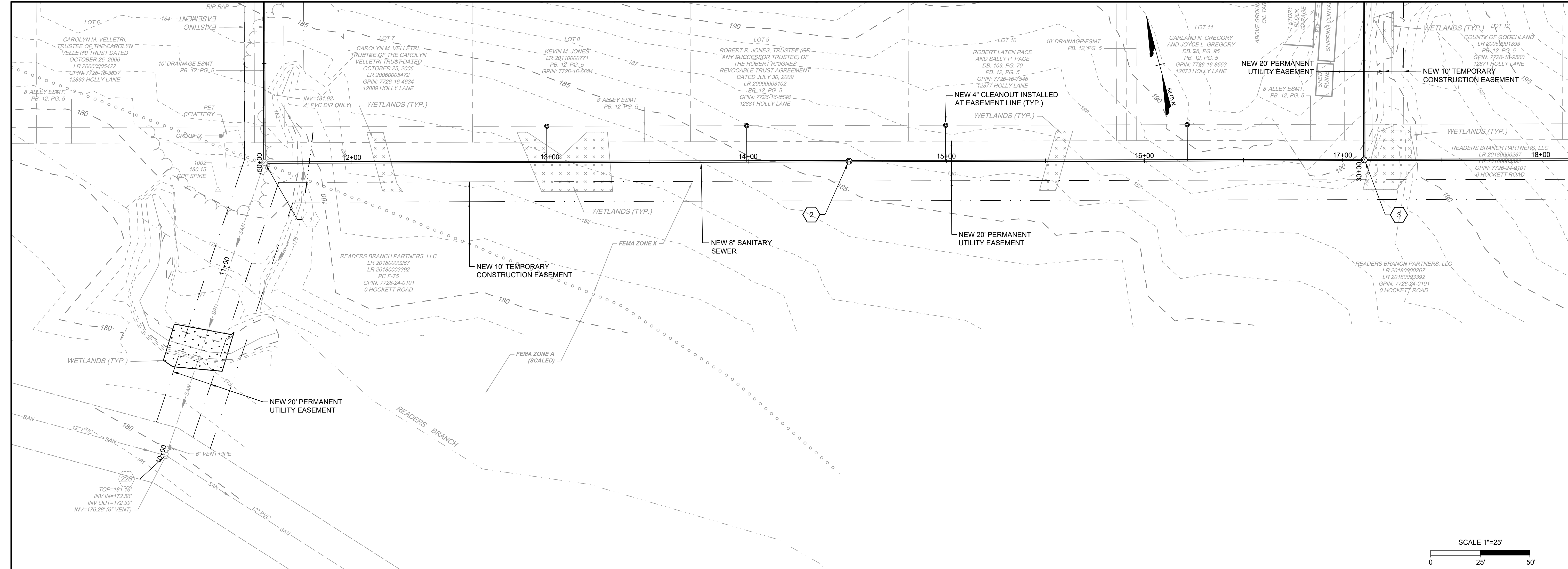


SANITARY SEWER HYDRAULIC ANALYSIS SAMARY FOREST														
PIPE RUN DESCRIPTION		MH #		FLOW DETERMINATION		MGD			PIPE RUN		PIPE CAPACITY (FULL)			REMARKS
		From	To	See "Predicted Average Wastewater Flow" Table (This Sheet)	Incr.	Total Avg	Std. Peak Factor	Peak Flow	Manning's "n": 0.013	Length	Dia. (in.)	Slope (%)	MGD	CFS
		33	32	B9	0.008	0.008	8.7	0.069	45.83	8	0.44%	0.52	0.80	2.6
		32	31	B8	0.001	0.009	8.6	0.073	160.00	8	0.44%	0.52	0.80	2.6
		31	30		0.009	8.6	0.073		120.00	8	1.84%	1.06	1.64	5.4
		30	29		0.009	8.6	0.073		200.00	8	1.84%	1.06	1.64	5.4
		29	28	B7	0.001	0.010	8.4	0.082	140.00	8	0.44%	0.52	0.80	2.6
		28	27		0.010	8.4	0.082		230.06	8	0.44%	0.52	0.80	2.6
		27	26		0.010	8.4	0.082		213.65	8	0.44%	0.52	0.81	2.6
		26	25	B6	0.002	0.012	8.1	0.096	290.42	8	0.44%	0.52	0.80	2.6
		25	24	B5	0.002	0.014	7.9	0.107	290.00	8	0.44%	0.52	0.80	2.6
		24	23	B4	0.002	0.015	7.7	0.117	300.00	8	3.02%	1.36	2.11	6.9
		23	22		0.015	7.7	0.117		394.63	8	0.44%	0.52	0.80	2.6
		46	45	B3	0.002	0.002	11.2	0.023	249.30	8	1.92%	1.08	1.68	5.5
		45	44	B2	0.002	0.004	9.8	0.041	331.05	8	3.92%	1.55	2.40	7.8
		44	43		0.004	9.8	0.041		288.95	8	0.52%	0.56	0.87	2.9
		43	42	B1	0.002	0.006	9.3	0.053	300.00	8	0.52%	0.57	0.88	2.9
		42	41		0.006	9.3	0.053		145.54	8	0.92%	0.75	1.16	3.8
		41	40		0.006	9.3	0.053		370.34	8	0.56%	0.58	0.90	3.0
		40	22		0.006	9.3	0.053		366.78	8	3.32%	1.43	2.21	7.2
		22	21		0.015	0.021	7.3	0.151	255.86	8	3.72%	1.51	2.34	7.5
		21	20		0.021	7.3	0.151		400.00	8	4.92%	1.74	2.69	8.8
		20	246		0.021	7.3	0.151		21.50	8	5.44%	1.83	2.83	9.2

SANITARY SEWER HYDRAULIC ANALYSIS SAMARY FOREST														
PIPE RUN DESCRIPTION		MH #		FLOW DETERMINATION		MGD			PIPE RUN		PIPE CAPACITY (FULL)			REMARKS
		From	To	See "Predicted Average Wastewater Flow" Table (This Sheet)	Incr.	Total Avg	Std. Peak Factor	Peak Flow	Manning's "n": 0.013	Length	Dia. (in.)	Slope (%)	MGD	CFS
		33	32	B9	0.008	0.008	8.7	0.069	45.83	8	0.44%	0.52	0.80	2.6
		32	31	B8	0.001	0.009	8.6	0.073	160.00	8	0.44%	0.52	0.80	2.6
		31	30		0.009	8.6	0.073		120.00	8	1.84%	1.06	1.64	5.4
		30	29		0.009	8.6	0.073		200.00	8	1.84%	1.06	1.64	5.4
		29	28	B7	0.001	0.010	8.4	0.082	140.00	8	0.44%	0.52	0.80	2.6
		28	27		0.010	8.4	0.082		230.06	8	0.44%	0.52	0.80	2.6
		27	26		0.010	8.4	0.082		213.65	8	0.44%	0.52	0.81	2.6
		26	25	B6	0.002	0.012	8.1	0.096	290.42	8	0.44%	0.52	0.80	2.6
		25	24	B5	0.002	0.014	7.9	0.107	290.00	8	0.44%	0.52	0.80	2.6
		24	23	B4	0.002	0.015	7.7	0.117	300.00	8	3.02%	1.36	2.11	6.9
		23	22		0.015	7.7	0.117		394.63	8	0.44%	0.52	0.80	2.6
		46	45	B3	0.002	0.002	11.2	0.023	249.30	8	1.92%	1.08	1.68	5.5
		45	44	B2	0.002	0.004	9.8	0.041	331.05	8	3.92%	1.55	2.40	7.8
		44	43		0.004	9.8	0.041		288.95	8	0.52%	0.56	0.87	2.9
		43	42	B1	0.002	0.006	9.3	0.053	300.00	8	0.52%	0.57	0.88	2.9
		42	41		0.006	9.3	0.053		145.54	8	0.92%	0.75	1.16	3.8
		41	40		0.006	9.3	0.053		370.34	8	0.56%	0.58	0.90	3.0
		40	22		0.006	9.3	0.053		366.78	8	3.32%	1.43	2.21	7.2
		22	21		0.015	0.021	7.3	0.151	255.86	8	3.72%	1.51	2.34	7.5
		21	20		0.021	7.3	0.151		400.00	8	4.92%	1.74	2.69	8.8
		20	246		0.021	7.3	0.151		21.50	8	5.44%	1.83	2.83	9.2

SANITARY SEWER HYDRAULIC ANALYSIS HICKORY HAVEN														
PIPE RUN DESCRIPTION		MH #		FLOW DETERMINATION		MGD			PIPE RUN		PIPE CAPACITY (FULL)			REMARKS
		From	To	See "Predicted Average Wastewater Flow" Table (This Sheet)	Incr.	Total Avg	Std. Peak Factor	Peak Flow	Manning's "n": 0.013	Length	Dia. (in.)	Slope (%)	MGD	CFS
		18	17	A8, A10	0.022	0.022	7.2	0.158	291.26	8	2.08%	1.13	1.75	5.7
		17	16		0.022	7.2	0.158		113.12	8	2.12%	1.14	1.76	5.8
		16	15		0.022	7.2	0.158		43.01	8	3.16%	1.39	2.15	7.0
		15	11		0.022	7.2	0.158		312.62	8	2.84%	1.32	2.04	6.7
		14	12	A7, A9	0.022	0.022	7.2	0.160	331.00	8	5.24%	1.79	2.77	9.1
		13	12	A6	0.001	0.001	12.4	0.015	340.85	8	0.58%	0.59	0.92	3.0
		12	11	A5, A7, A9	0.023	0.024	7.1	0.172	157.25	8	1.40%	0.93	1.43	4.7
		11	1	A5, A10	0.022	0.046	6.3	0.289	217.00	8	1.12%	0.83	1.28	4.2
		10	9	A4	0.002	0.002	11.9	0.018	246.55	8	5.44%	1.83	2.83	9.2
		9	7		0.002	11.9	0.018		238.45	8	4.80%	1.72	2.65	8.7
		8	7	A3	0.001	0.001	14.2	0.008	240.00	8	5.92%	1.91	2.95	9.6
		7	6	A4	0.002	0.002	11.2	0.023	22.77	8	2.80%	1.31	2.03	6.6
		6	3		0.002	11.2	0.023		217.00	8	2.80%	1.31	2.03	6.6
		5	4	A2	0.002	0.002	11.5	0.021	314.04	8	5.28%	1.80	2.78	9.1
		4	3		0.002	11.5	0.021		336.82	8	3.52%	1.47	2.27	7.4
		3	2	A1, A3, A4	0.004	0.005	9.4	0.051	260.00	8	1.44%	0.94	1.45	4.7
		2	1		0.005	9.4	0.051		295.00	8	1.44%	0.94	1.45	4.7
		1	226	A5-A10	0.046	0.052	6.1	0.316	155.88	12	0.24%	1.13	1.75	2.5

The map illustrates the layout of Hickory Haven, divided into four distinct areas: AREA A2, AREA A3, AREA A4, and an unlabeled area. The areas are separated by a thick dashed line labeled 'CDDAC CIRCLE'. A dashed line labeled 'SPECIAL ZONEMENT' is also shown. Numbered markers (3, 5, 7, 8, 10) are placed throughout the map, likely indicating specific points of interest or measurement. The map includes various building footprints, landscaping, and a north arrow in the top right corner.



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DATE

DATE

5-14-2019

DRAWN BY

J. CARTER

DESIGNED BY

J. CARTER

CHECKED BY

B. STRICKLAND

SCALE

H: 1"= 25'

V: 1"= 5'

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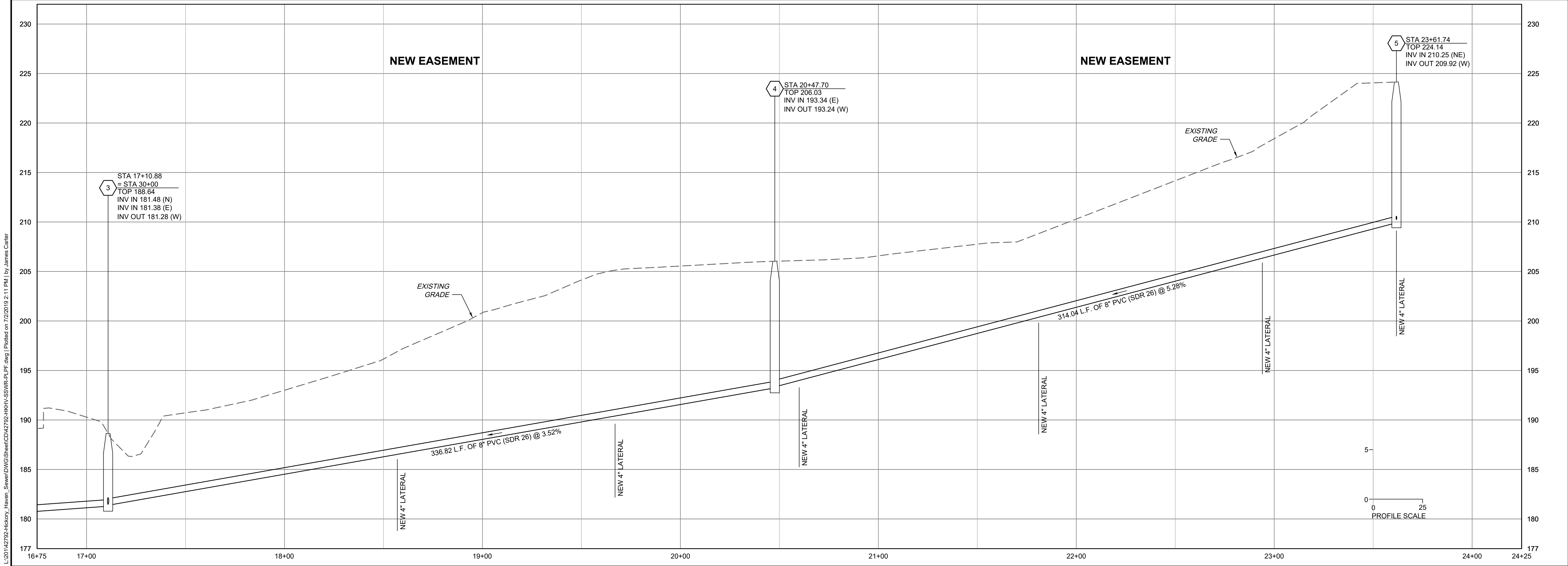
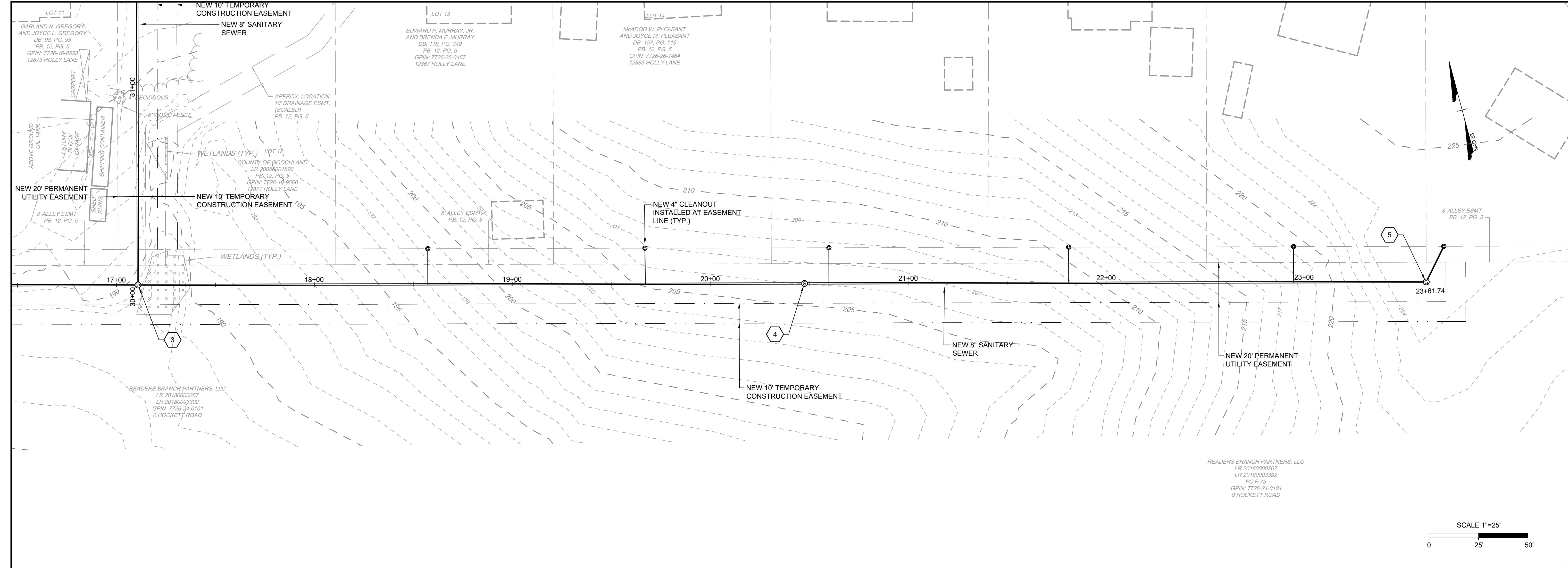
HICKORY HAVEN & SAMARY FOREST SANITARY SEWER
DISTRICT 4 - GOOCHLAND COUNTY - VIRGINIA
HICKORY HAVEN PLAN AND PROFILE

JOB NO.
42792

SHEET NO.
U-1

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5-14-2019

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J. CARTER

B. STRICKLAND

SCALE
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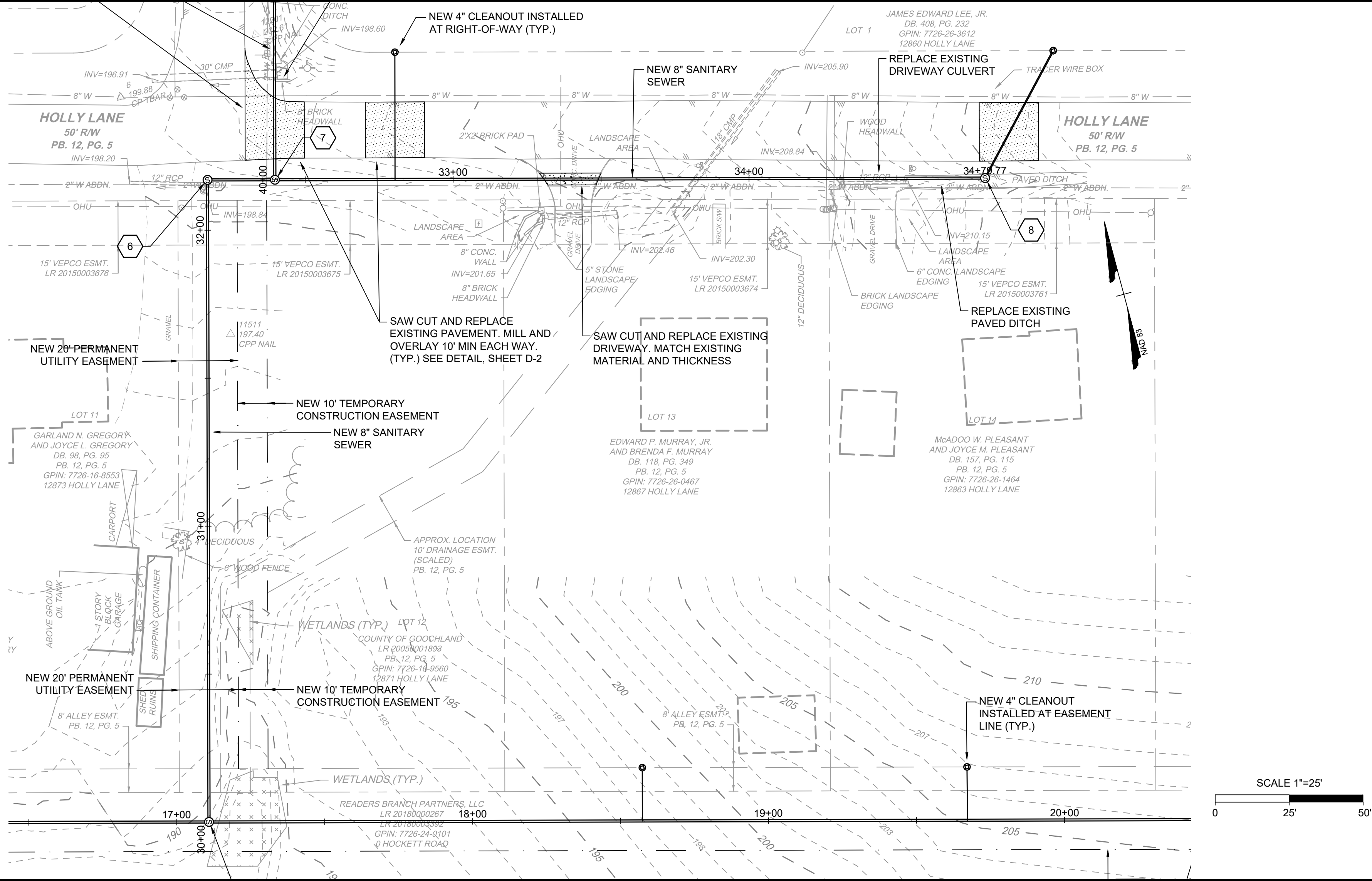
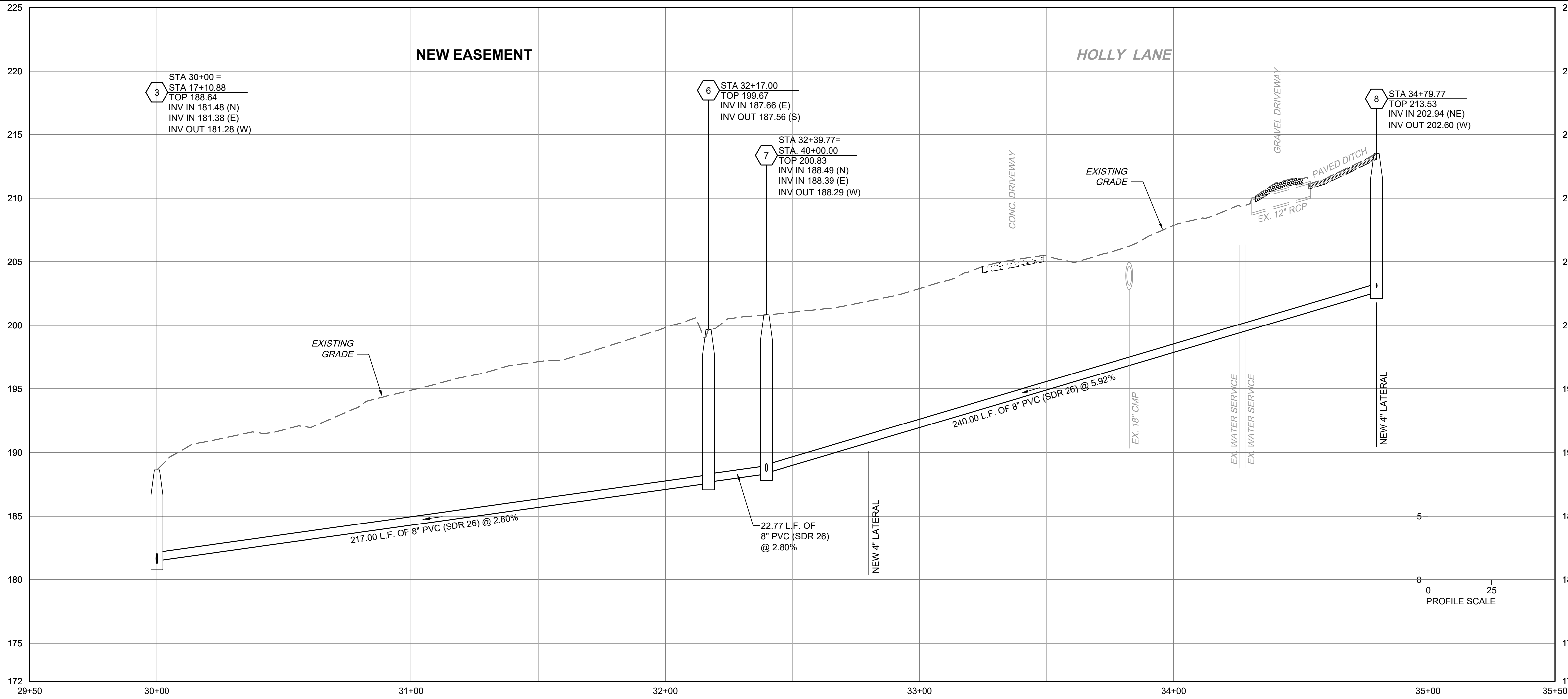
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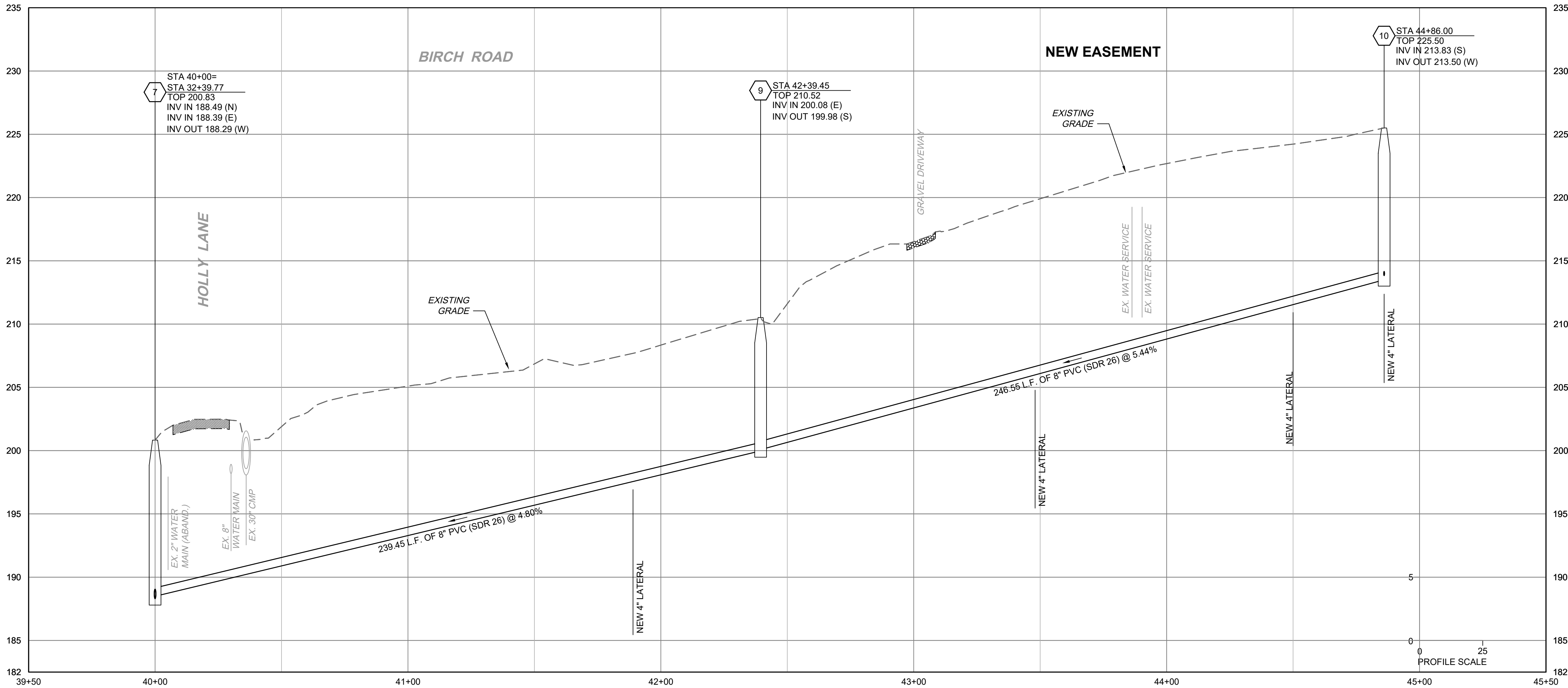
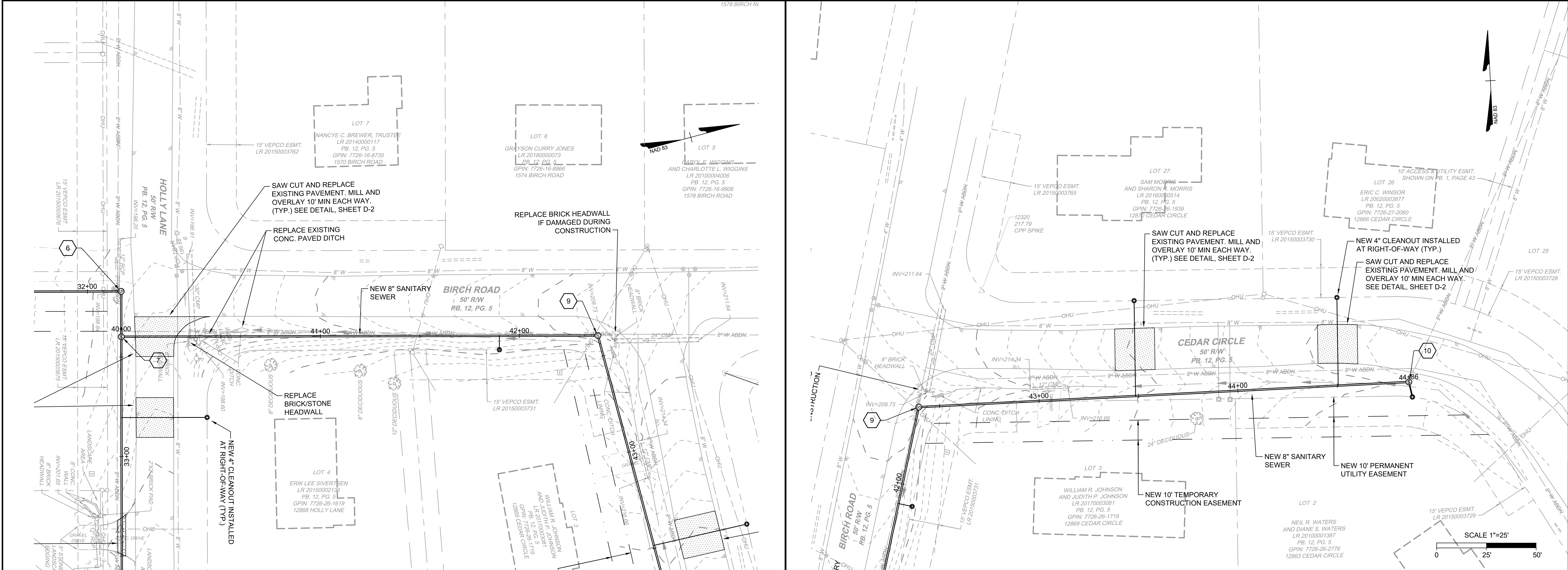
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CHECKED BY

B. STRICKLAND

SCALE

H: 1"= 25'
V: 1"= 5'

HICKORY HAVEN & SAMARY FOREST SANITARY SEWER

DISTRICT 4 - GOOCHLAND COUNTY - VIRGINIA

HICKORY HAVEN PLAN AND PROFILE

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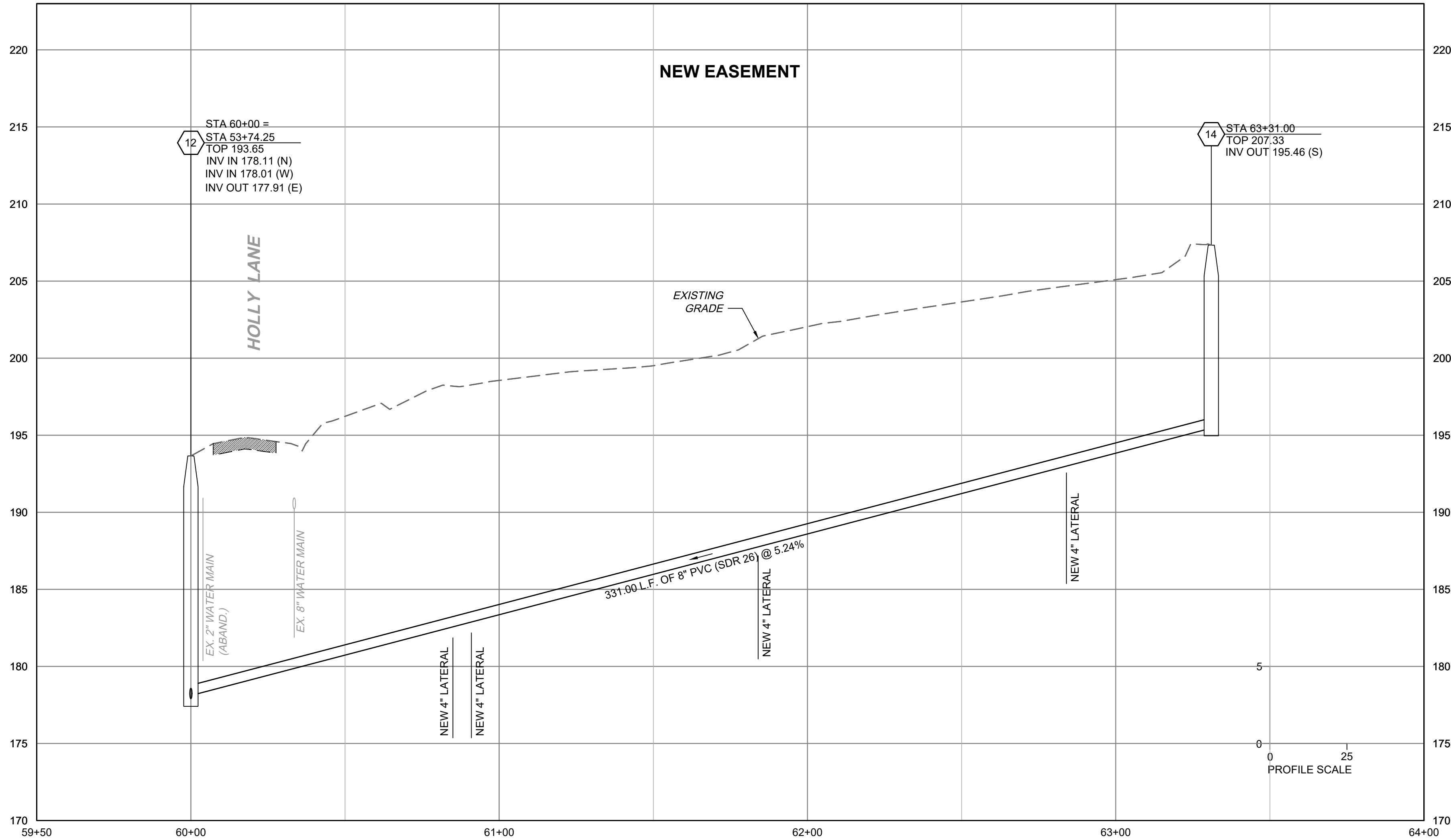
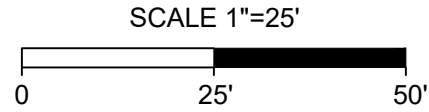
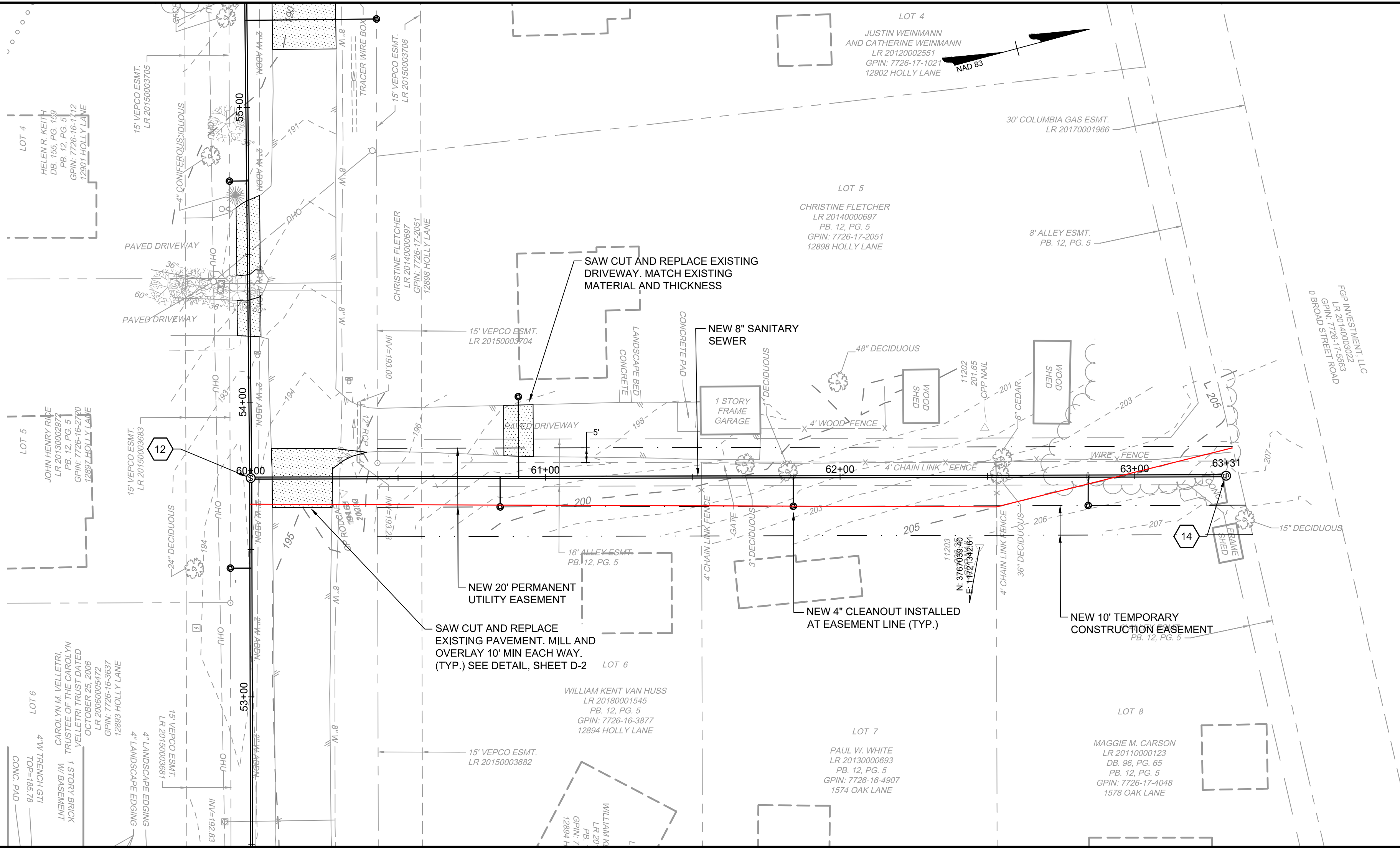
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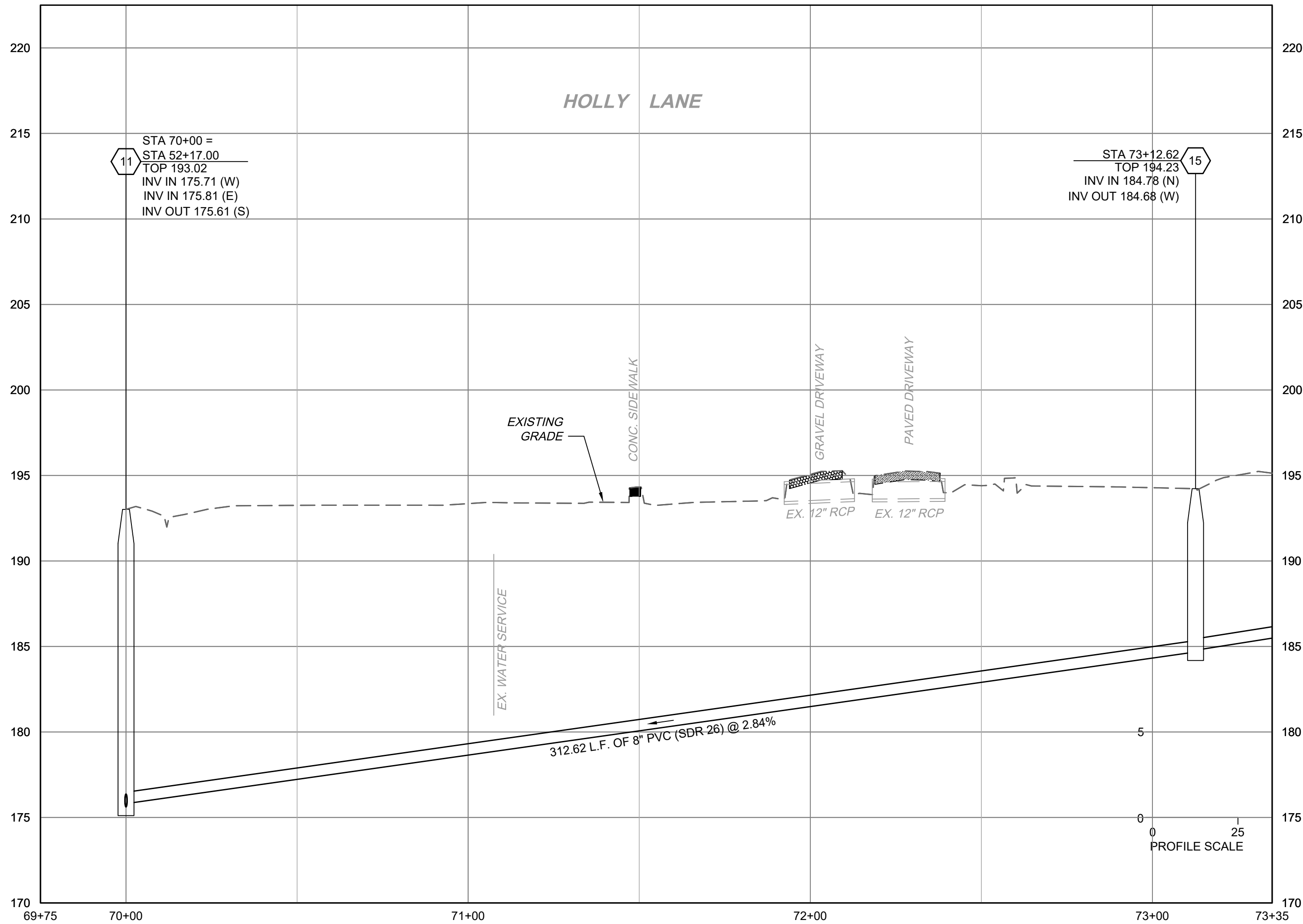
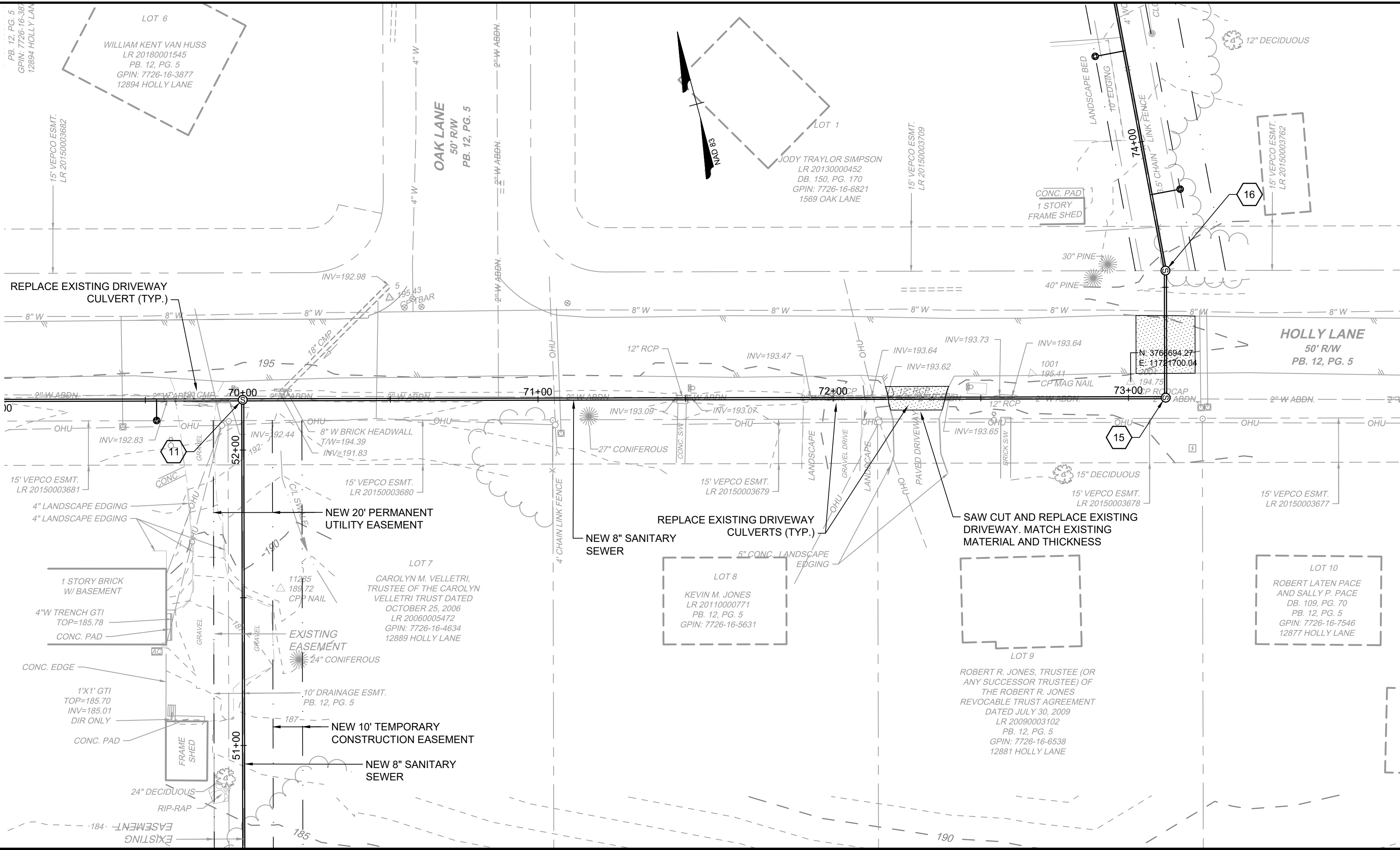
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5-14-2019
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J. CARTER
DESIGNED BY
J. CARTER
CHECKED BY
B. STRICKLAND
SCALE
H: 1"= 25'
V: 1"= 5'

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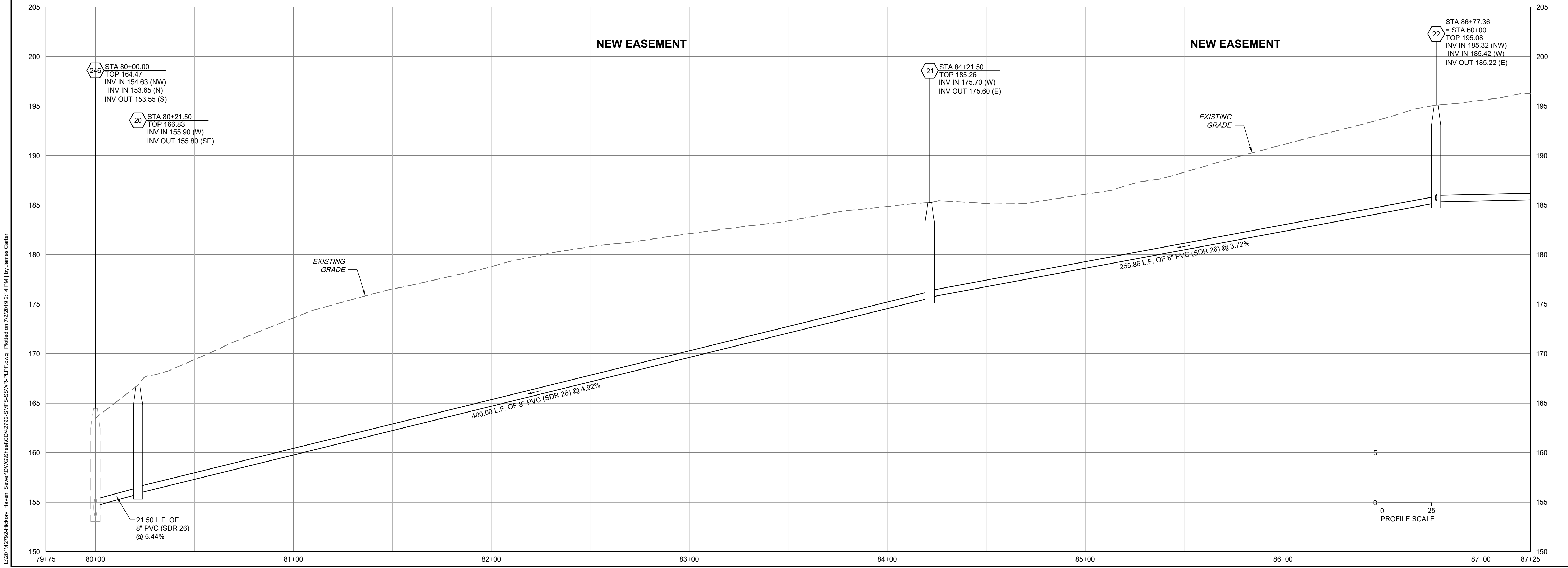
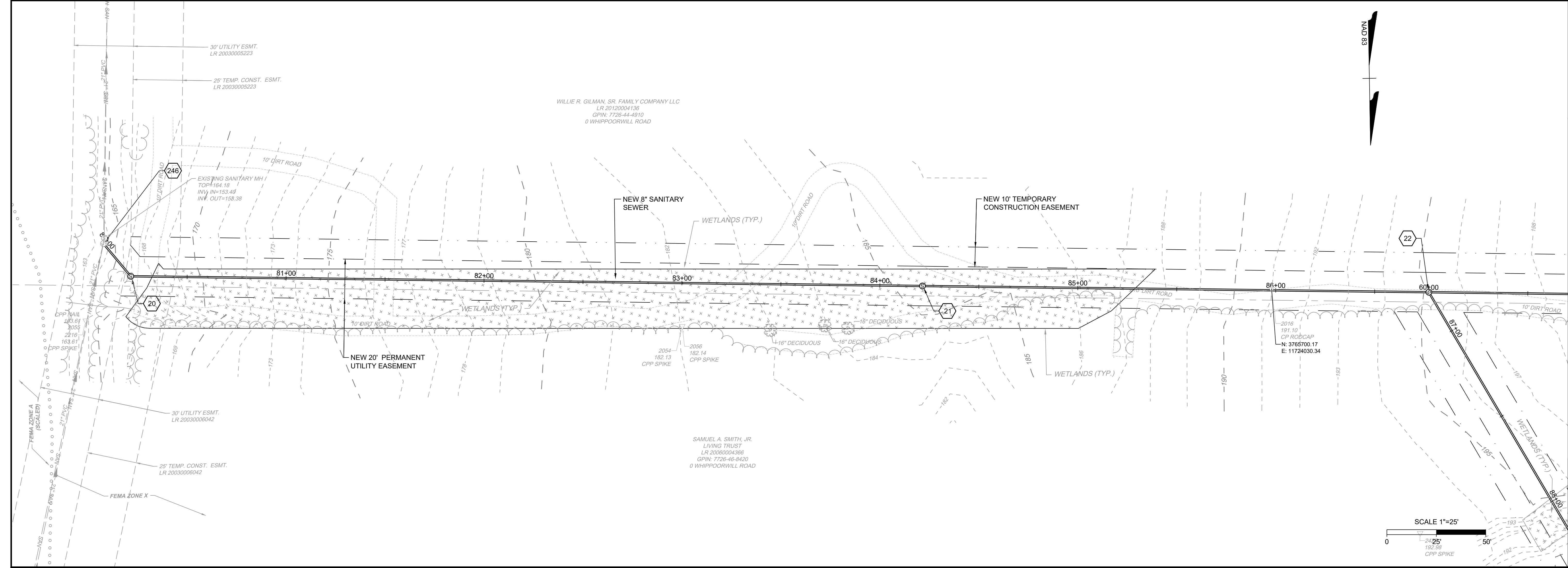
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5-14-2019	
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DESIGNED BY	J. CARTER
CHECKED BY	B. STRICKLAND
SCALE	H: 1"= 25' V: 1"= 5'

TIMMONS GROUP

HICKORY HAVEN & SAMARY FOREST SANITARY SEWER
DISTRICT 4 - GOOCHLAND COUNTY - VIRGINIA
HICKORY HAVEN PLAN AND PROFILE

JOB NO.
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SHEET NO.
U-7

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J. CARTER

DESIGNED BY

J. CARTER

CHECKED BY

B. STRICKLAND

SCALE

1" = 25'

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HICKORY HAVEN & SAMARY FOREST SANITARY SEWER
DISTRICT 4 - GOOCHLAND COUNTY - VIRGINIA
SAMARY FOREST PLAN AND PROFILE

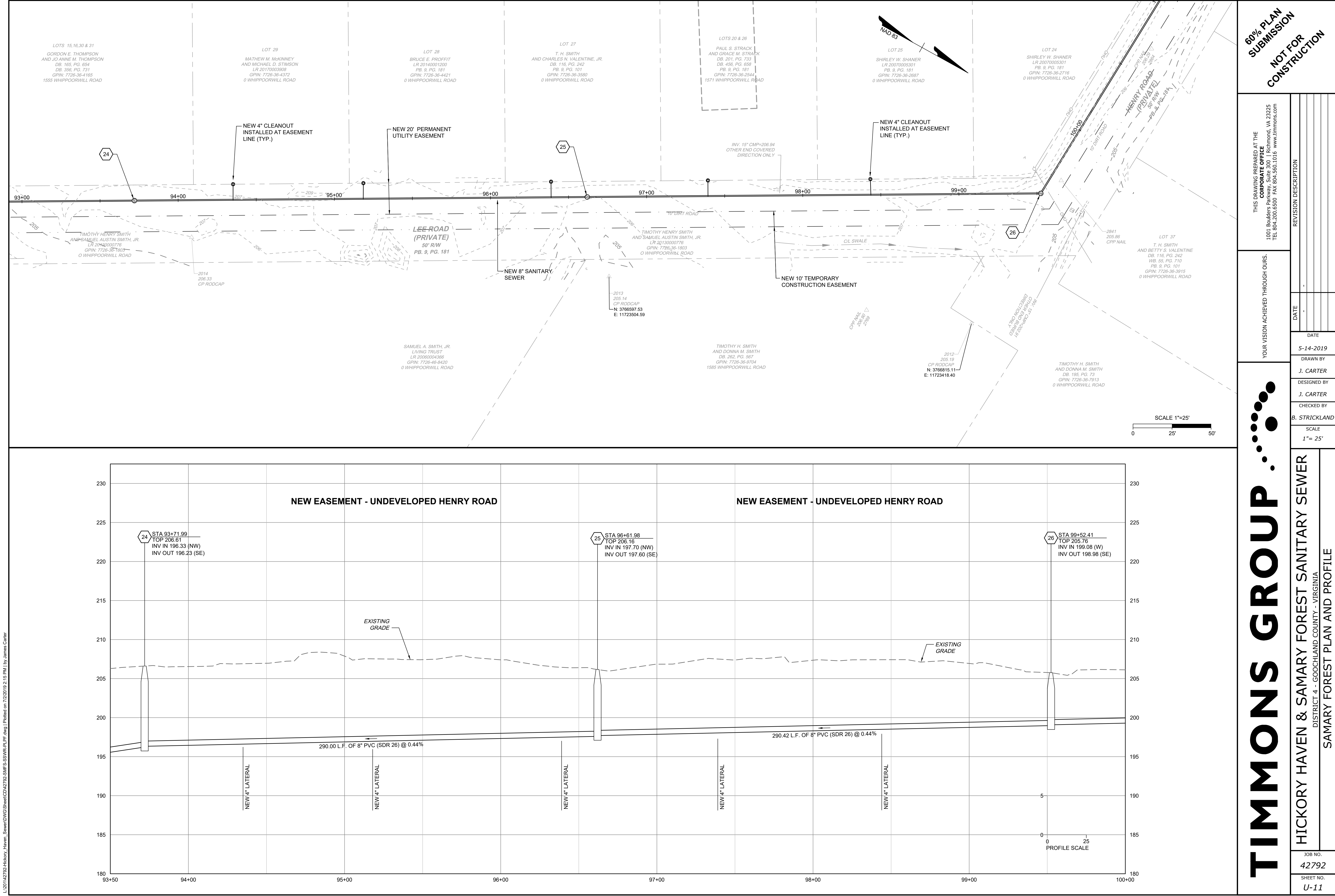
JOB NO.

42792

SHEET NO.

U-9

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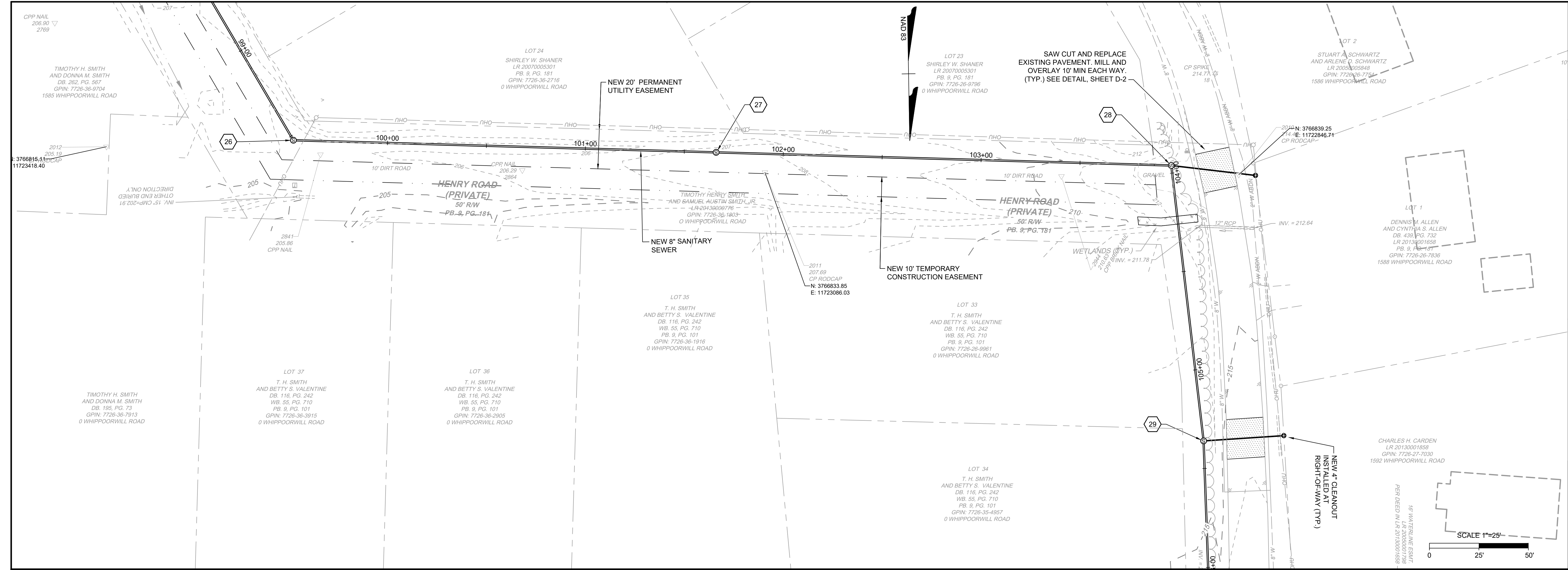
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DATE		DATE	
5-14-2019			
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DESIGNED BY	J. CARTER		
CHECKED BY	B. STRICKLAND		
SCALE	1" = 25'		

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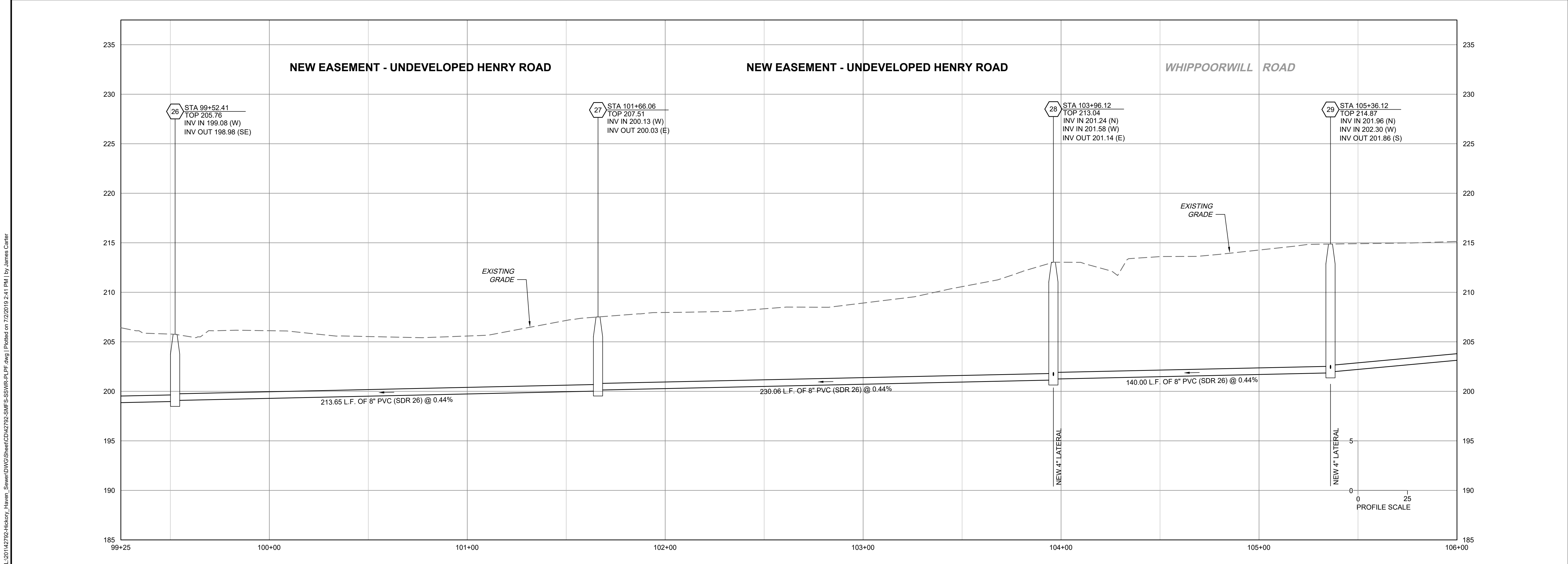
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SAMARY FOREST PLAN AND PROFILE

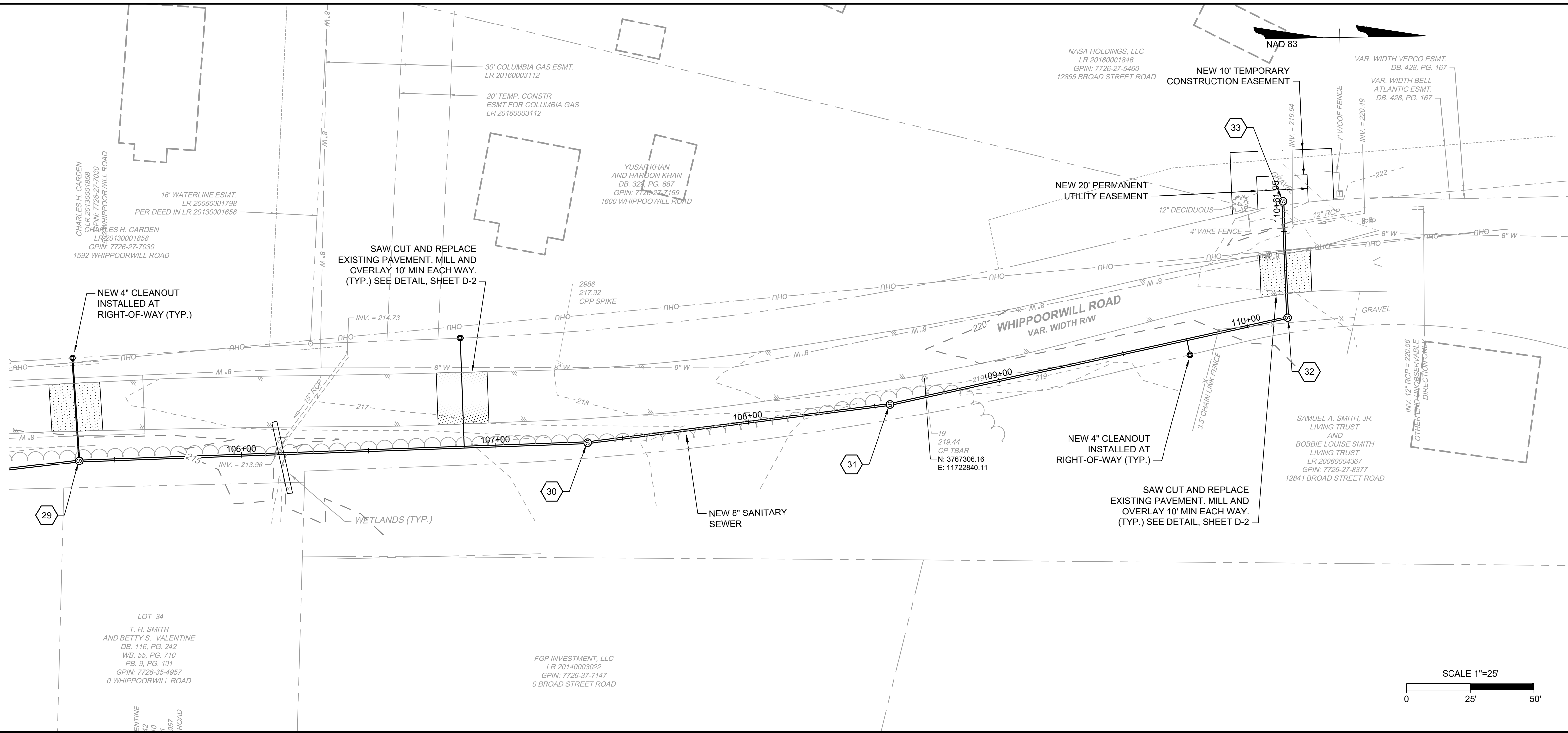
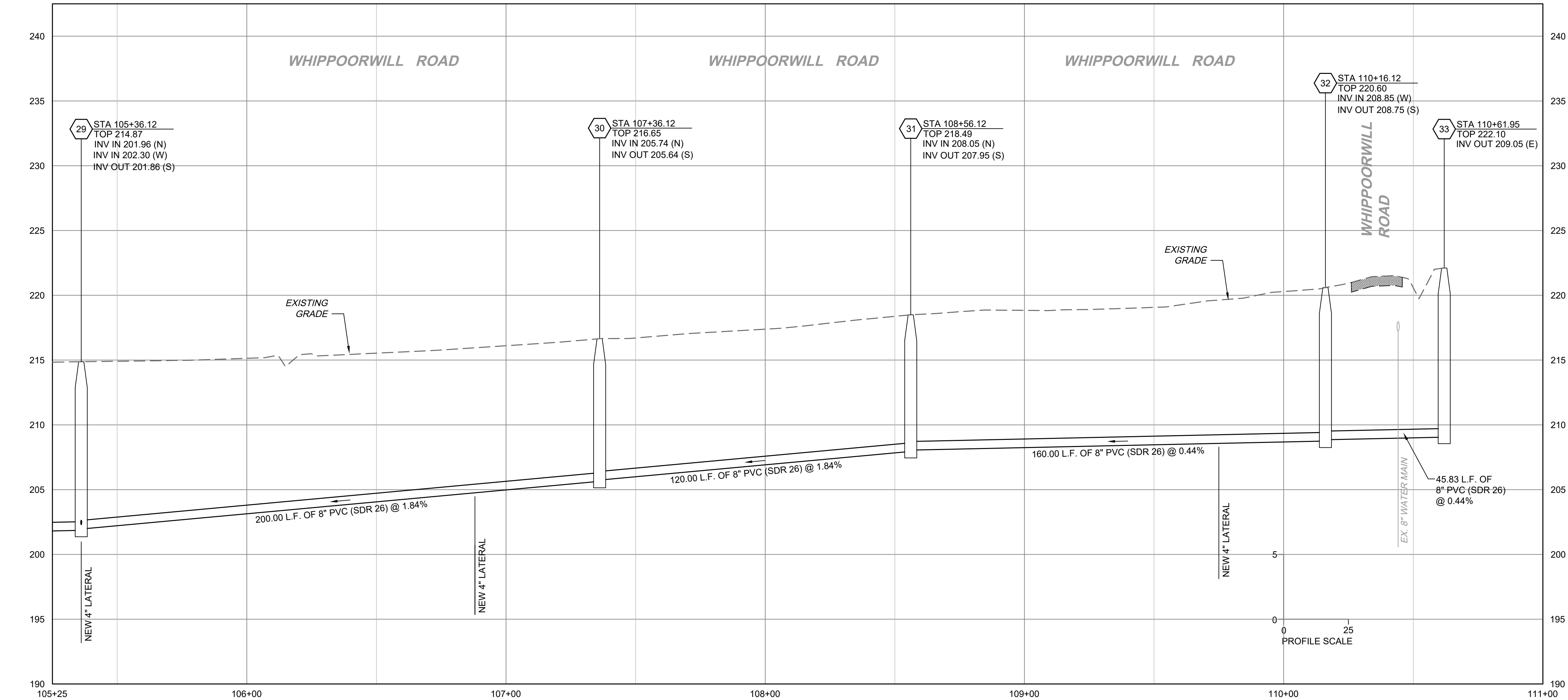
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SAMARY FOREST PLAN AND PROFILE

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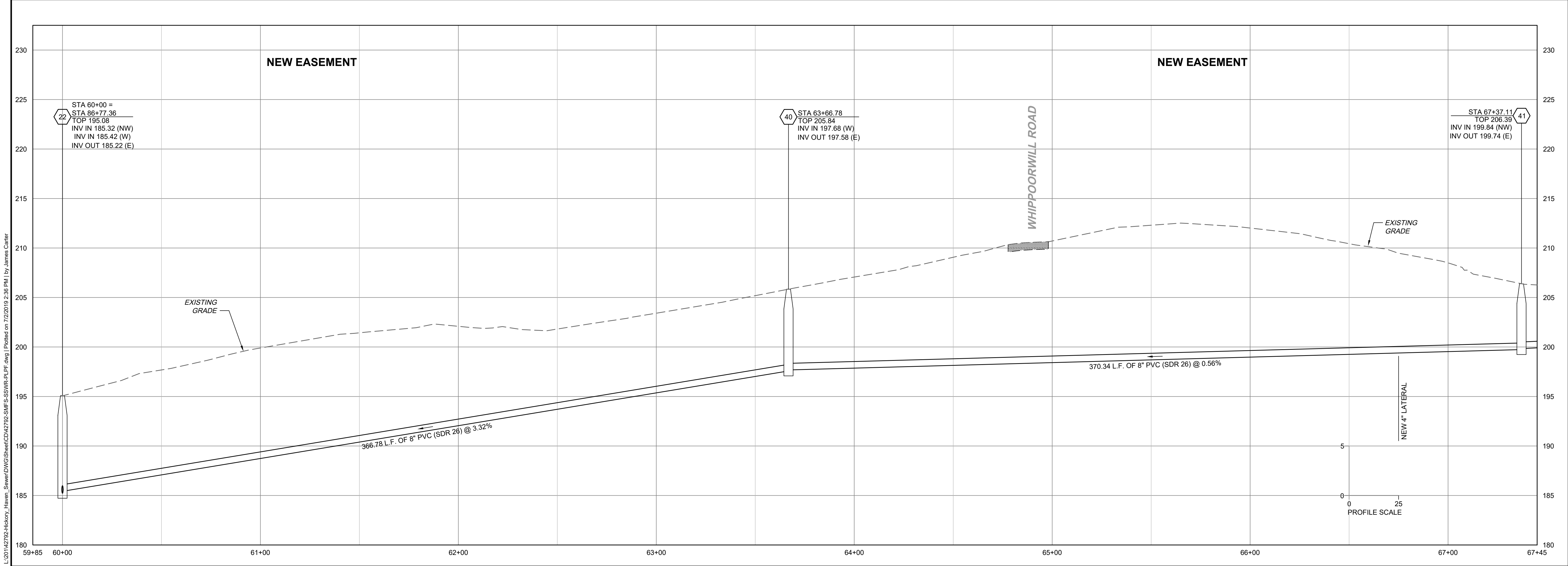
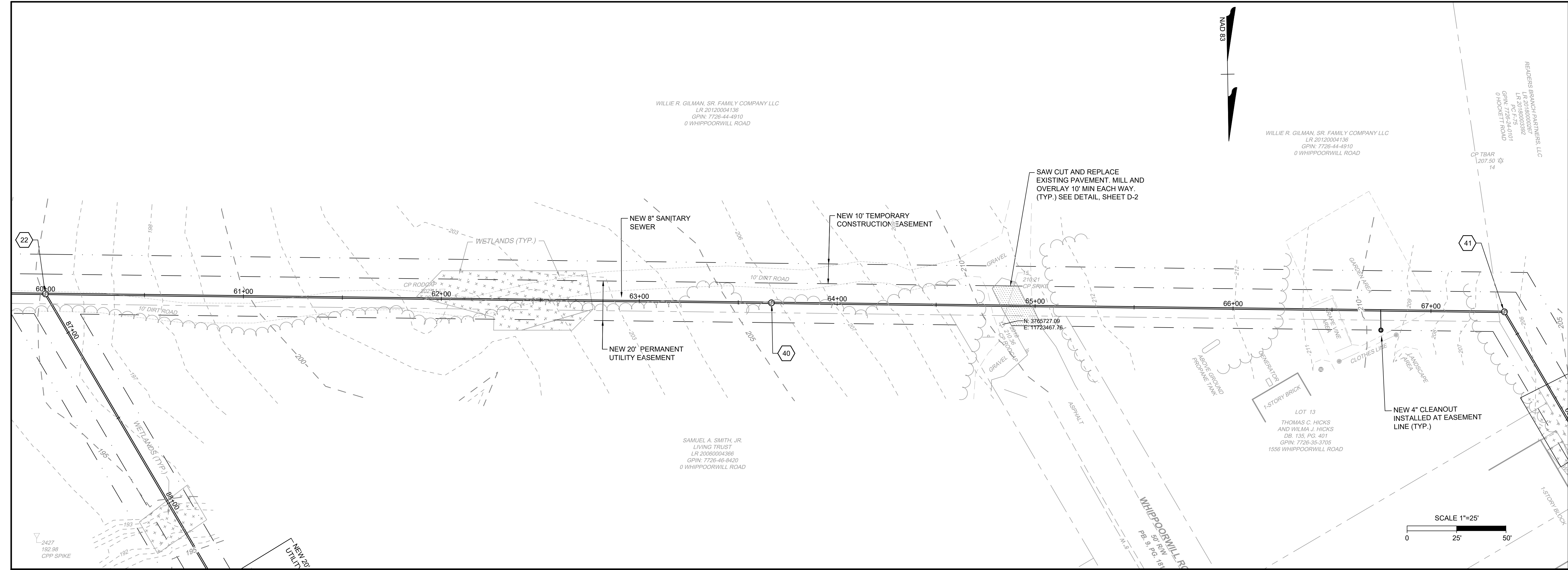
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CHECKED BY
B. STRICKLAND
SCALE
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CHECKED BY	B. STRICKLAND
SCALE	1" = 25'

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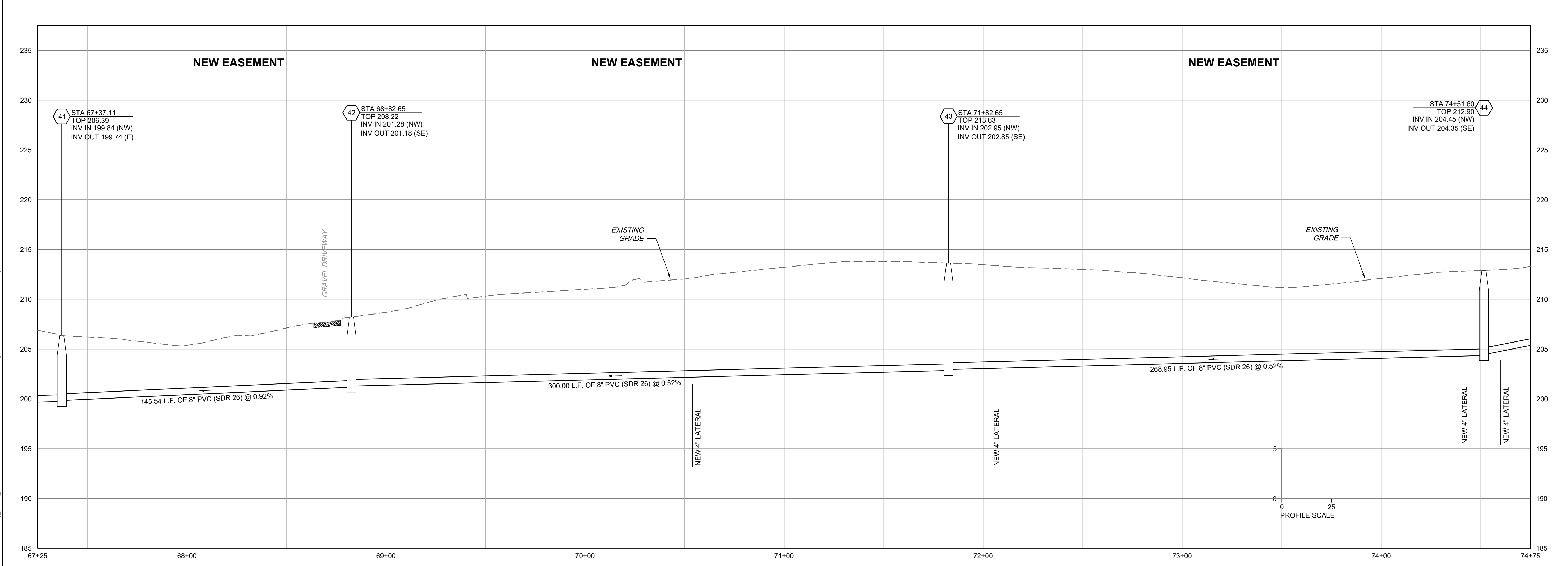
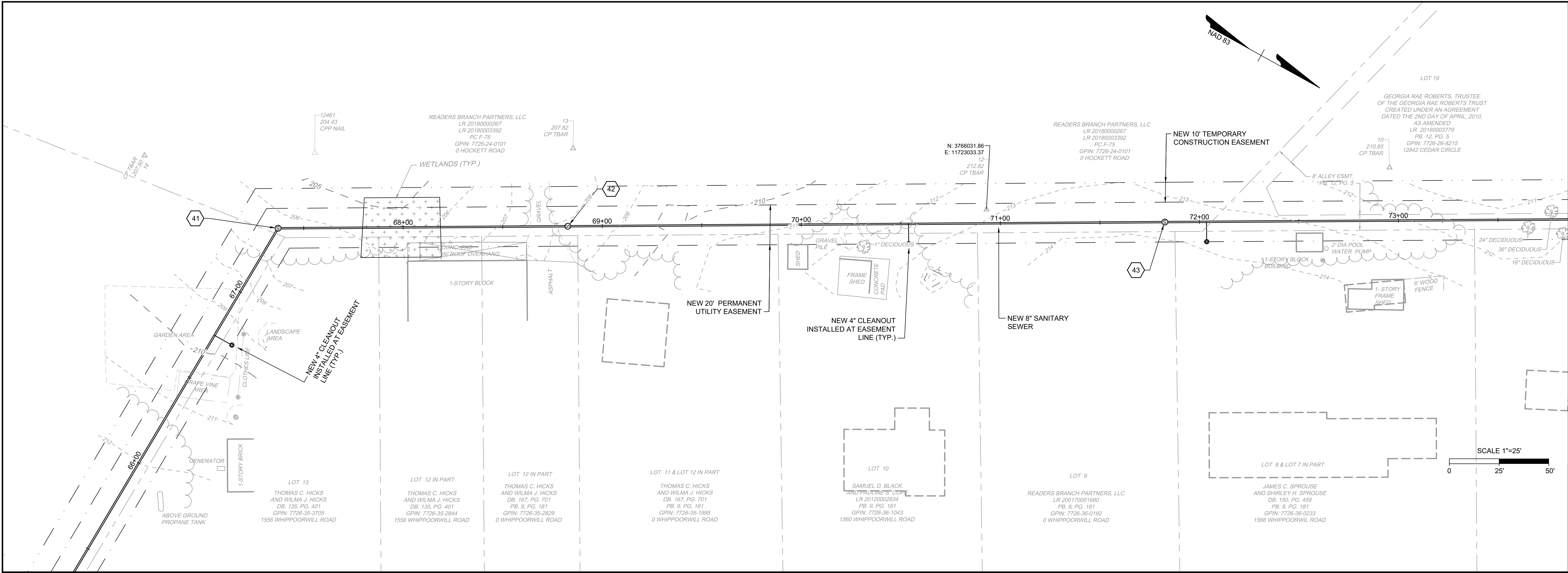
HICKORY HAVEN & SAMARY FOREST SANITARY SEWER
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SAMARY FOREST PLAN AND PROFILE

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B. STRICKLAND

SCALE

H: 1"= 25'

V: 1"= 5'

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HICKORY HAVEN & SAMARY FOREST SANITARY SEWER

DISTRICT 4 - GOOCHLAND COUNTY - VIRGINIA

SAMARY FOREST PLAN AND PROFILE

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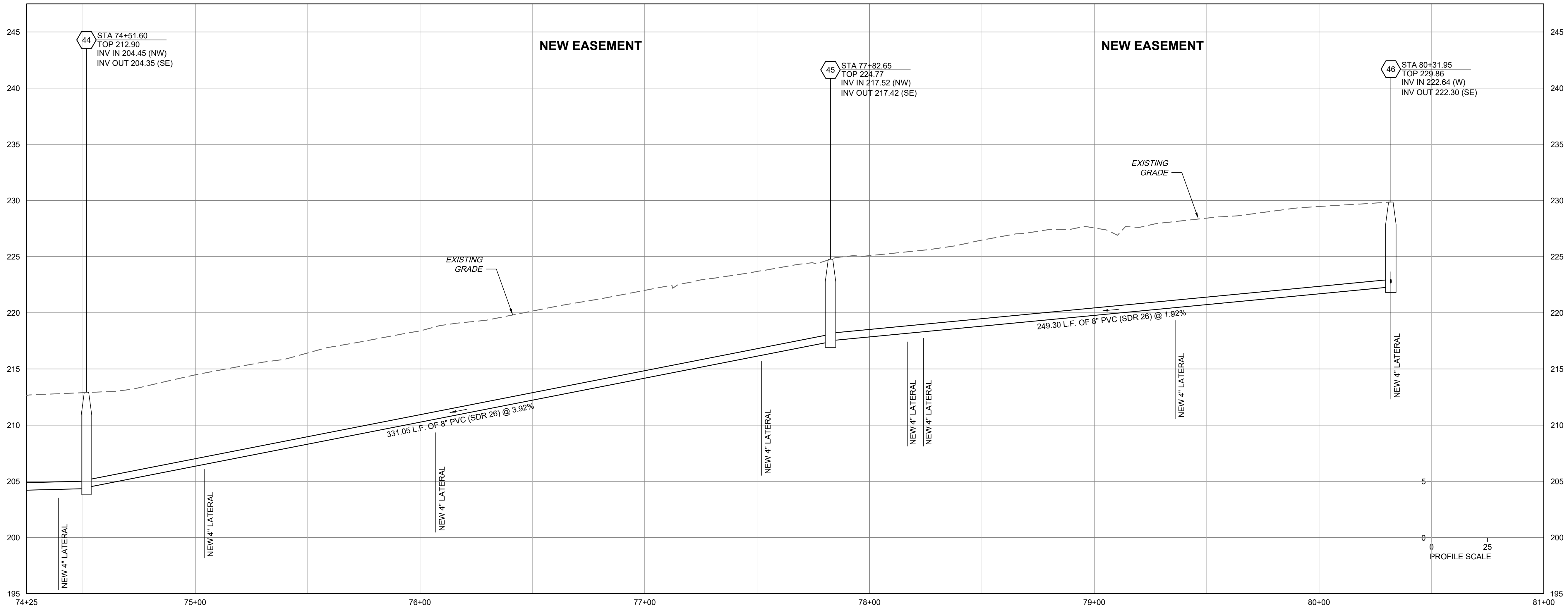
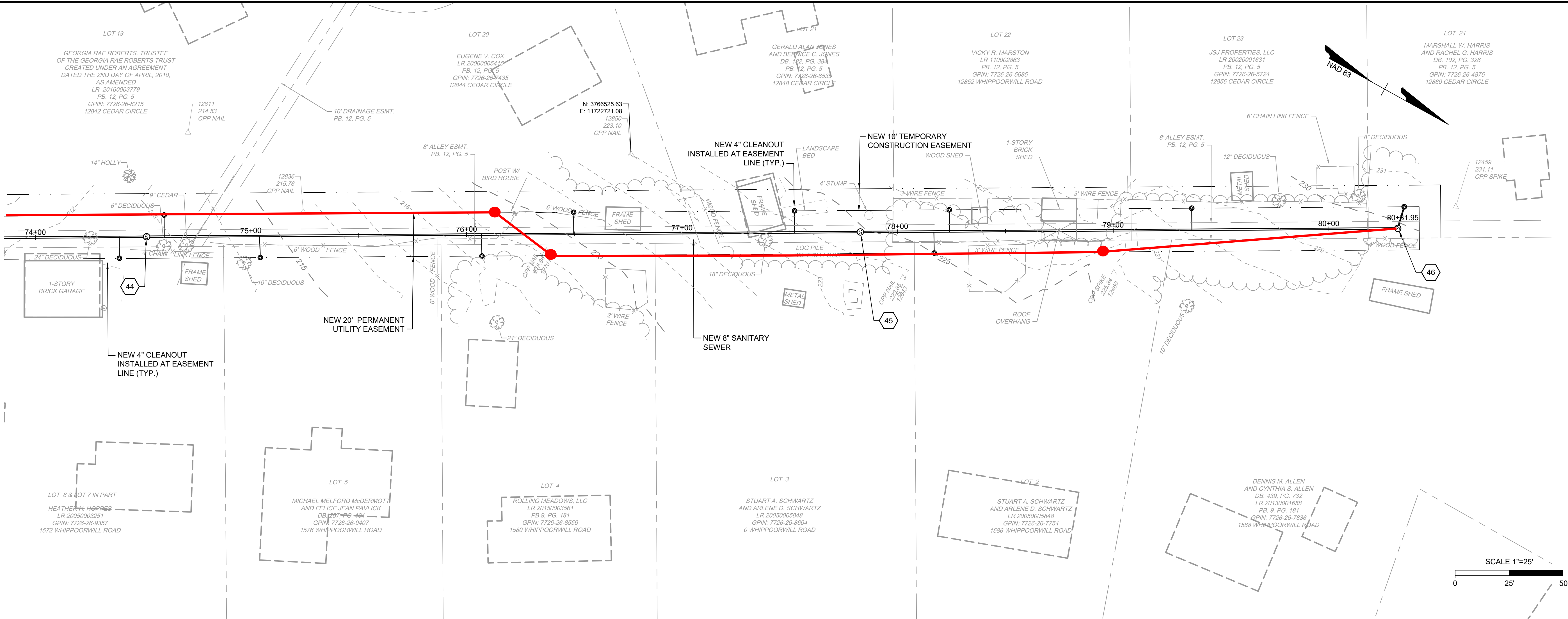
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5-14-2019

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J. CARTER

DESIGNED BY

J. CARTER

CHECKED BY

B. STRICKLAND

SCALE

H: 1"= 25'
V: 1"= 5'

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SHEET NO.

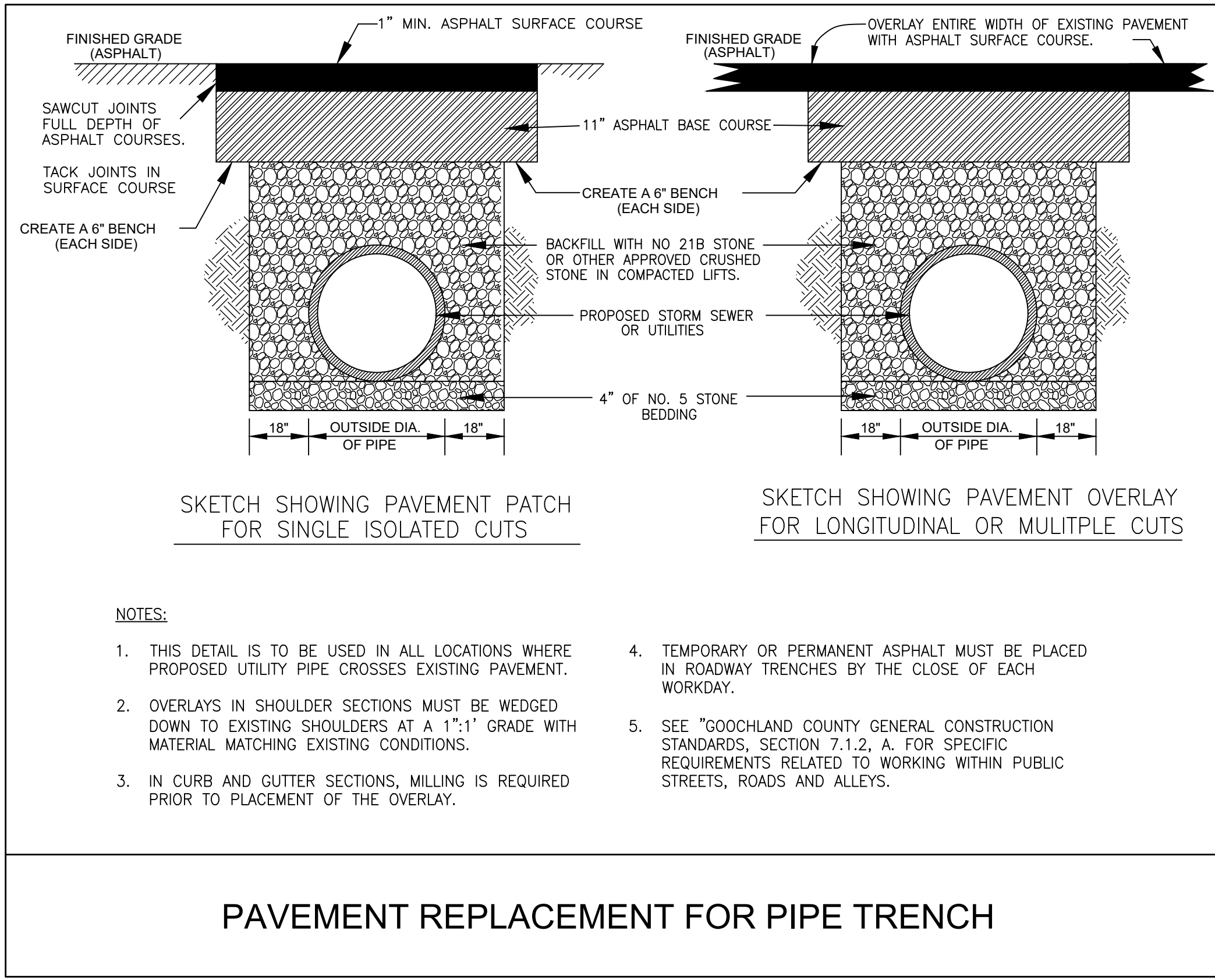
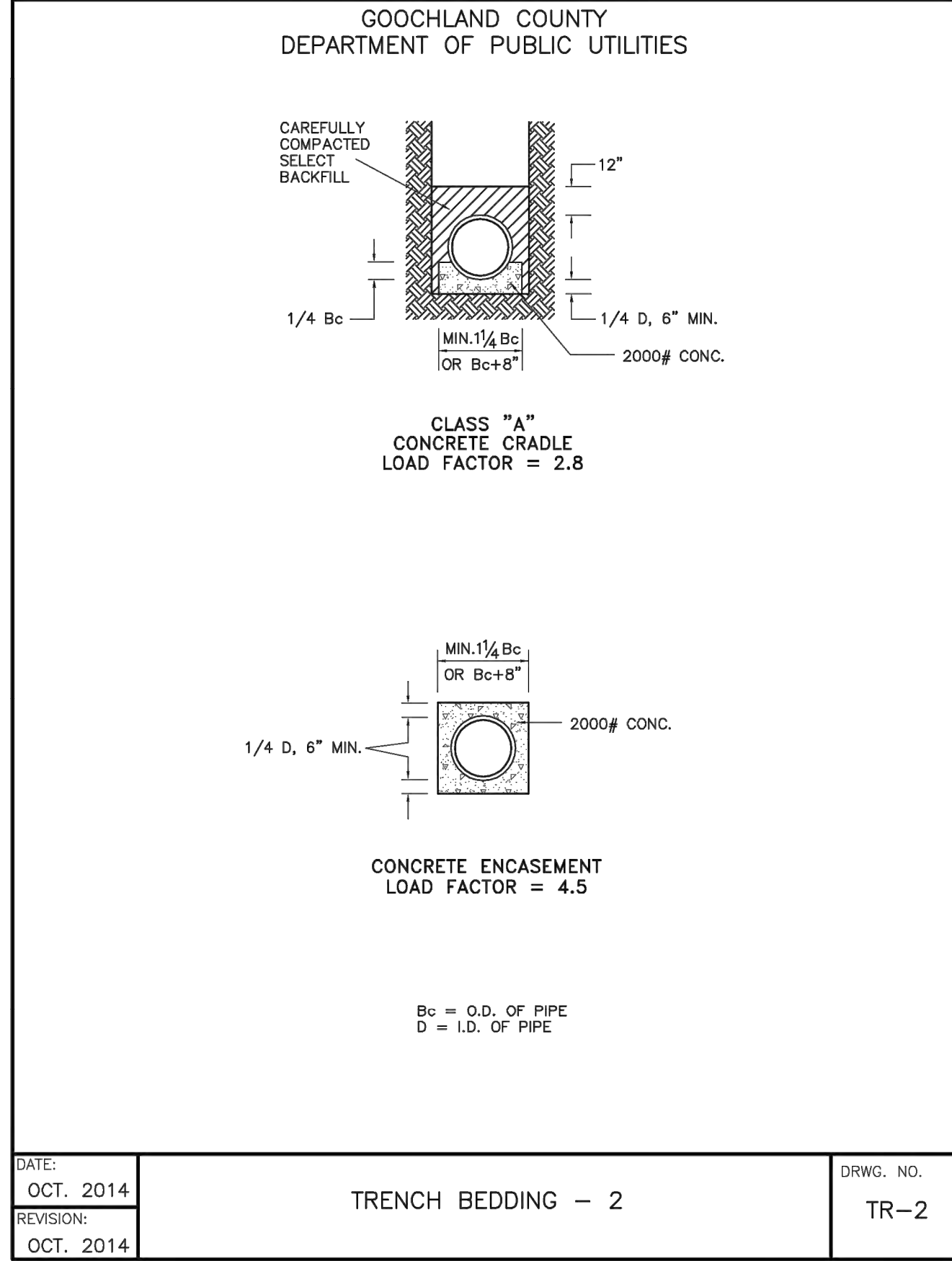
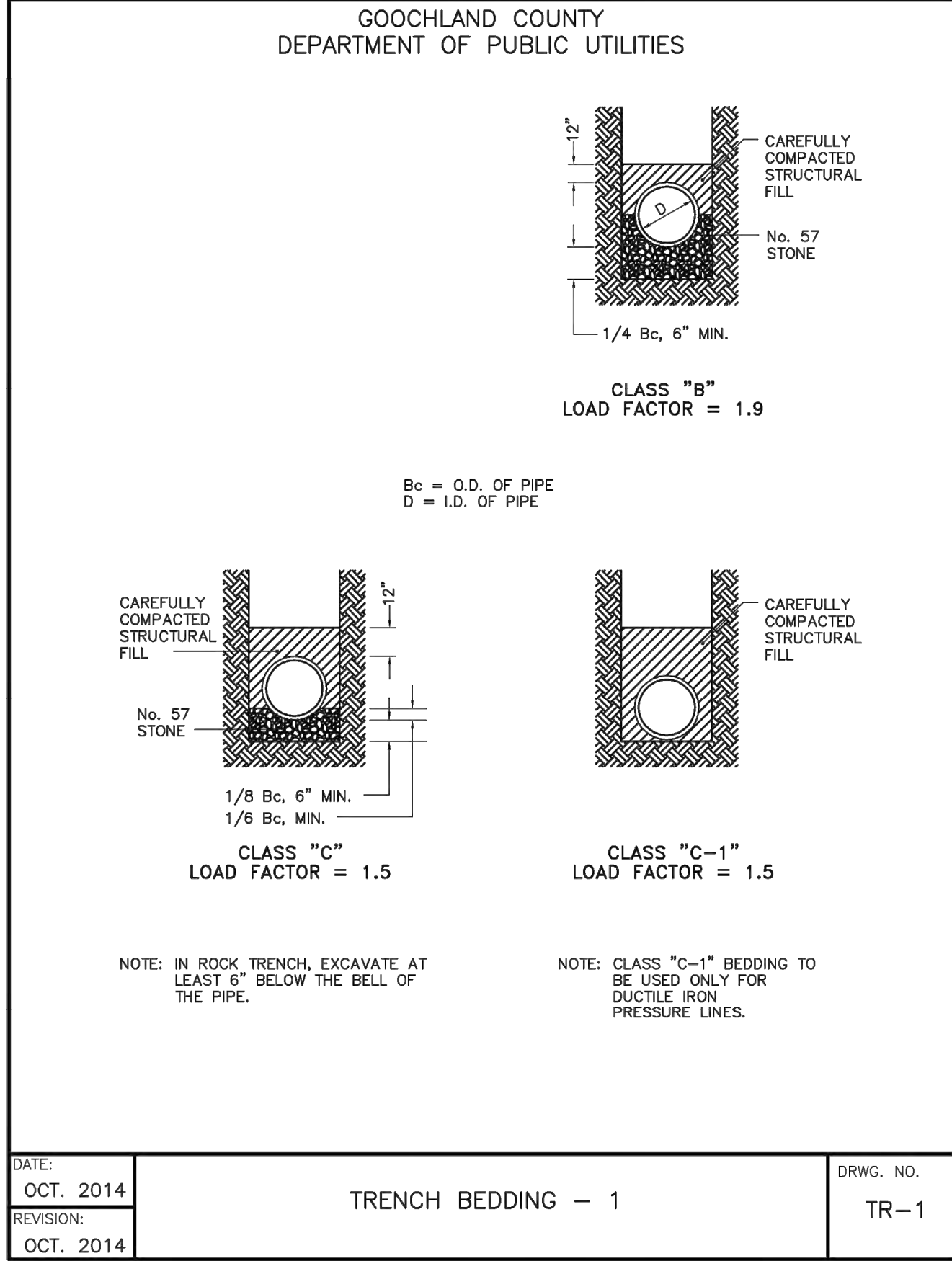
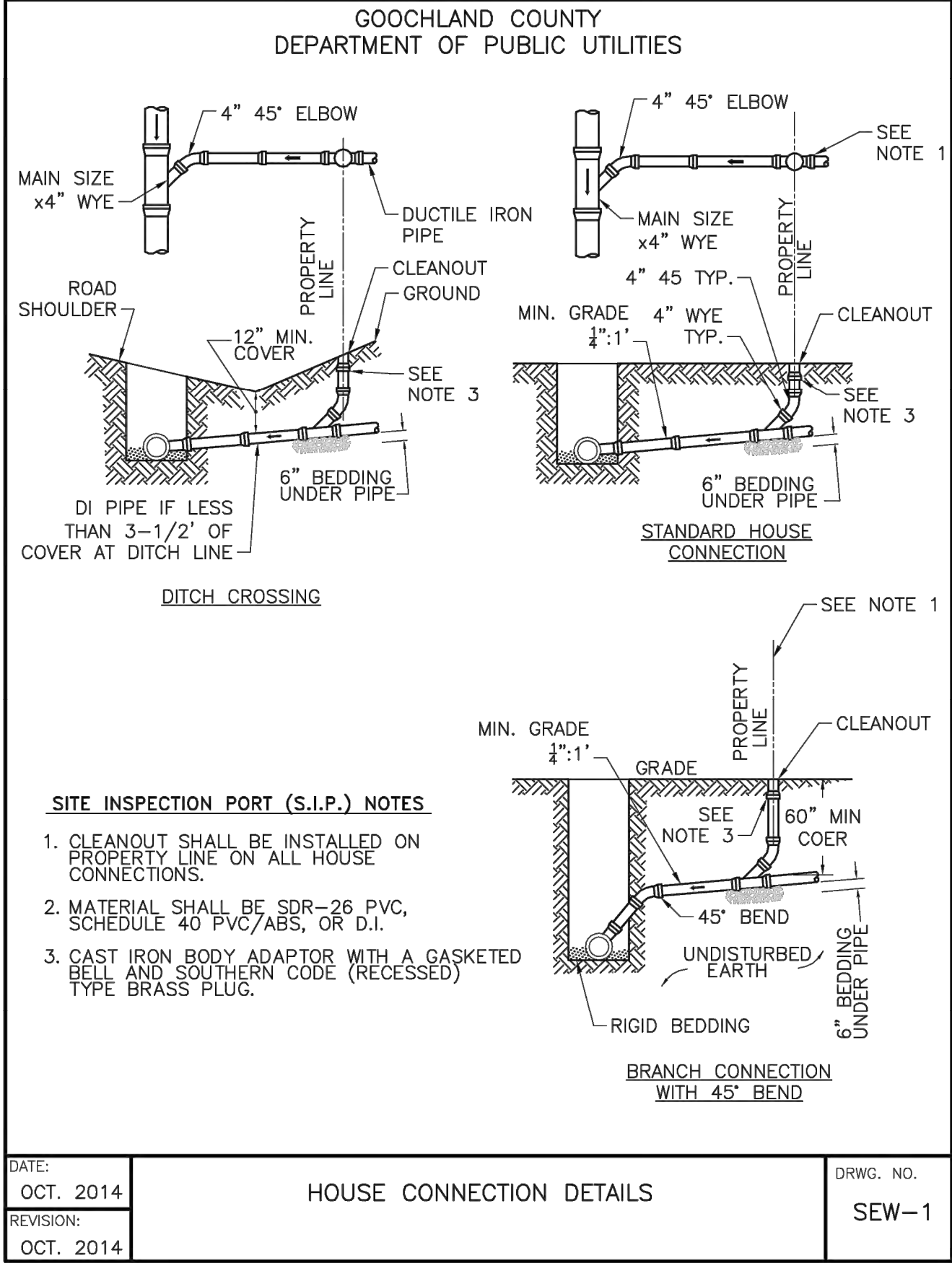
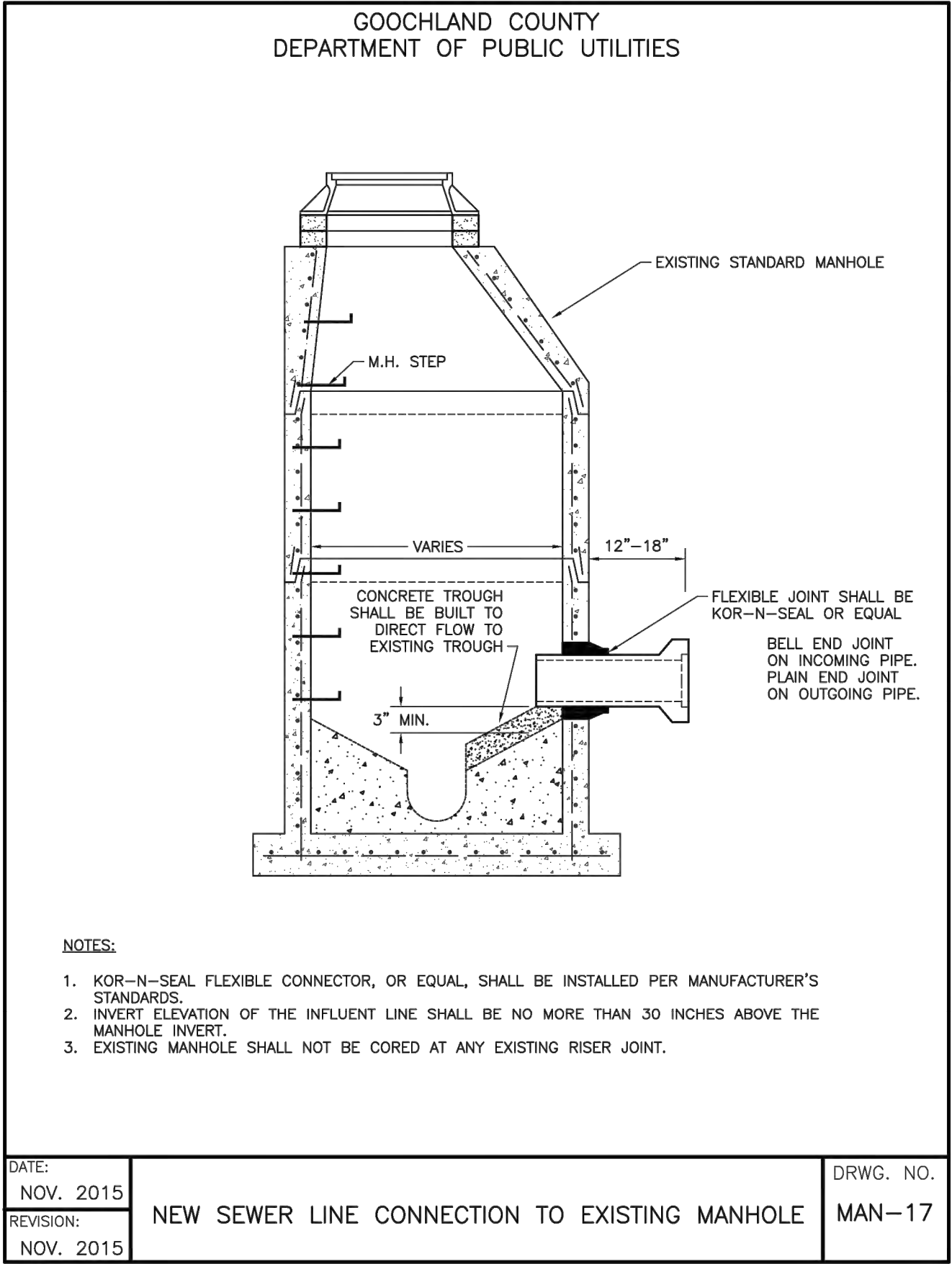
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HICKORY HAVEN & SAMARY FOREST SANITARY SEWER
DISTRICT 4 - GOOCHLAND COUNTY - VIRGINIA
SAMARY FOREST PLAN AND PROFILE

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J. CARTER

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B. STRICKLAND

SCALE
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HICKORY HAVEN & SAMARY FOREST SANITARY SEWER
DISTRICT 4 - GOOCHLAND COUNTY - VIRGINIA
GENERAL NOTES AND DETAILS

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