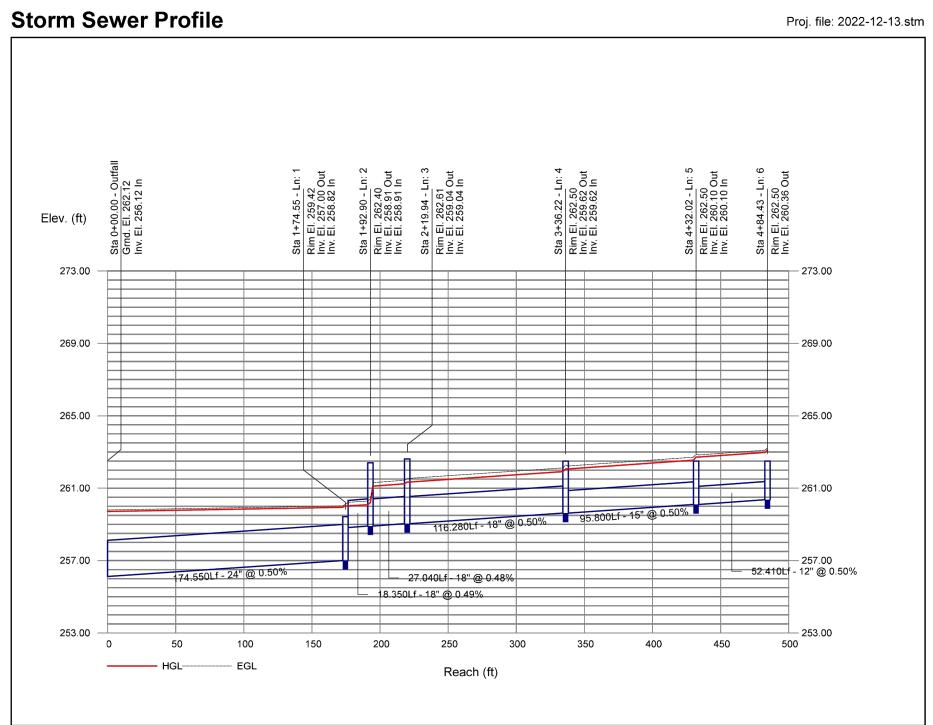
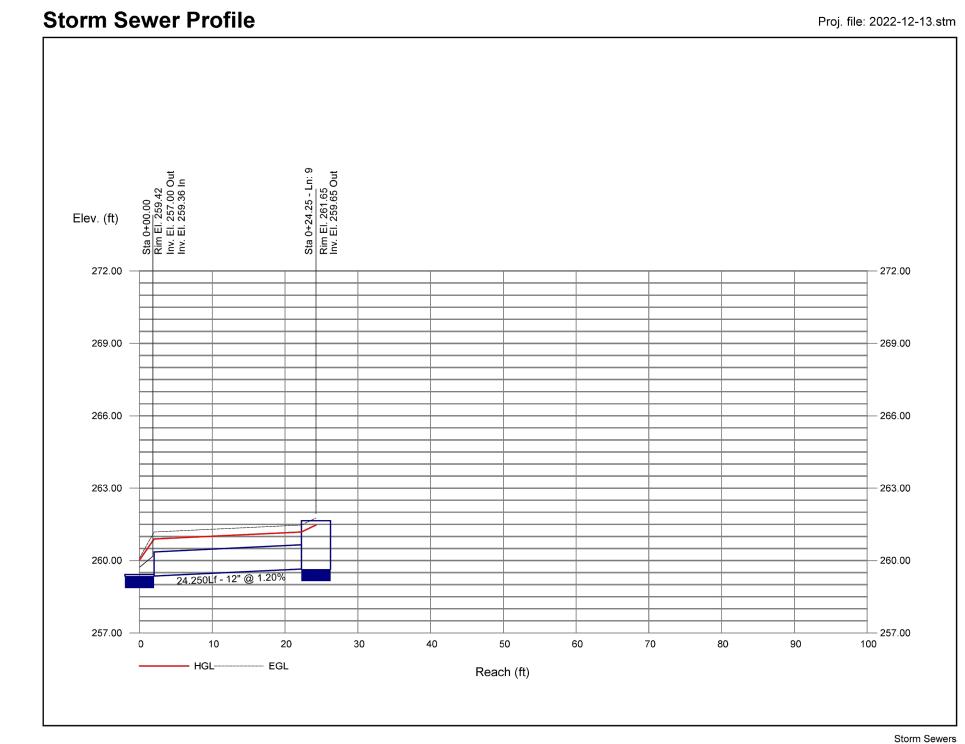
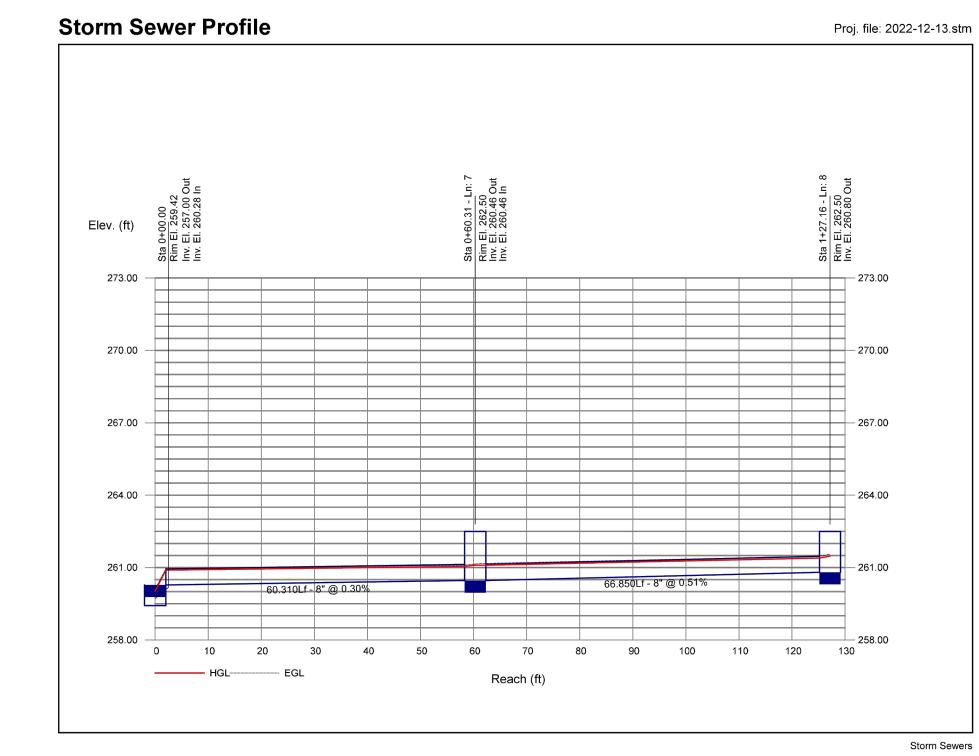
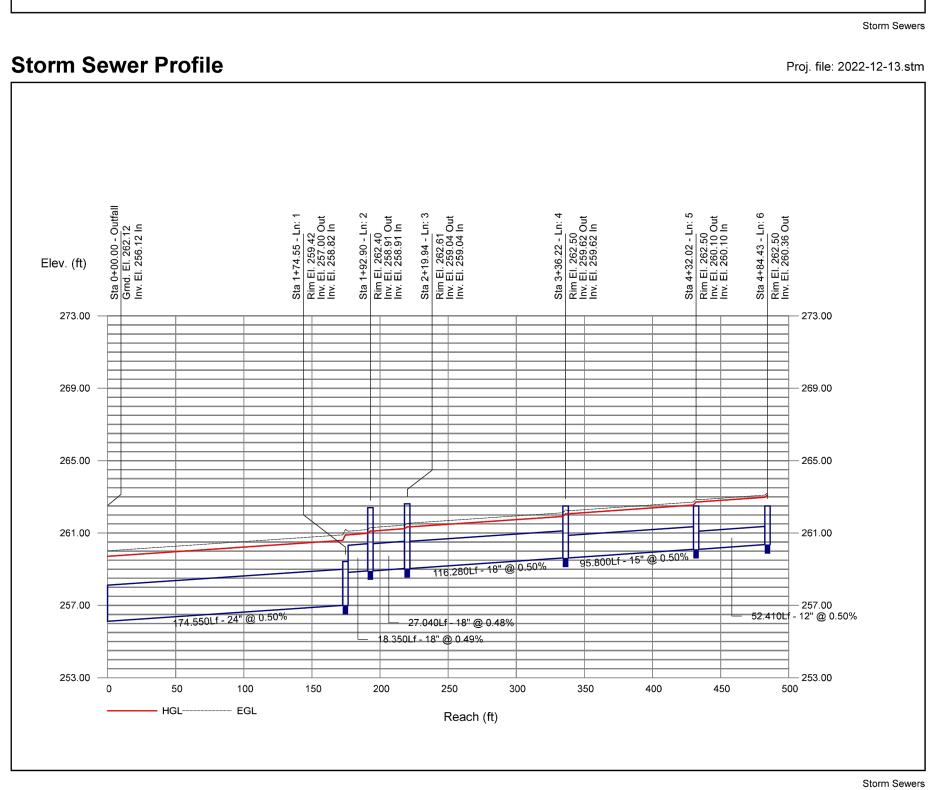
10-YEAR STORM EVENT STORM SEWER CALCULATIONS Manning's 'n' value of 0.015 was used in the calculations HGL Down Grnd/Rim Down | Grnd/Rim Up From Increment Total Area Increment Inlet Time | Concentration | Intensity Velocity | Pipe Size | Pipe Inv Elev Inv Elev Structure Structure Length (ft) Area (acres) (acres) Runoff Coeff. ($C \times A$ Total C x A (min) (cfs) Flow (cfs) (cfs) (cfs) (ft/s) Slope (%) Down (ft) Up (ft) (ft) HGL Up (ft) (ft) (ft) Line ID 20 Outfall 174.6 1.47 0.30 0.00 1.28 10.0 12.0 0.50 256.12 257.00 20 to Outfall 18 28.7 0.00 0.97 10.0 11.8 0.00 5.43 6.35 3.65 18 0.49 258.82 258.96 260.02 259.42 18 to 20 1.08 0.30 5.6 5.43 260.12 262.40 17 16.7 0.11 1.07 0.90 0.10 0.96 10.0 11.7 0.00 5.43 3.40 18 0.48 258.96 259.04 260.25 260.29 262.40 262.61 17 to 18 5.43 16 116.3 0.40 0.96 0.90 0.36 0.86 10.0 11.1 0.00 4.98 3.31 18 0.50 259.04 259.62 260.39 260.70 262.61 262.50 16 to 17 15 95.8 0.25 0.56 0.90 0.23 0.50 10.0 10.4 0.00 2.97 3.96 15 0.50 259.62 260.10 260.85 261.08 262.50 262.50 15 to 16 52.41 0.31 0.31 0.90 0.28 0.28 10.0 10.0 6.0 0.00 1.67 2.17 2.13 12 0.50 260.10 260.36 261.22 261.36 262.50 262.50 14 to 15 0.12 0.55 66.85 0.12 0.07 0.07 10.0 10.0 0.40 0.00 0.40 0.75 0.51 260.80 259.42 262.50 YD2 to YD1 YD2 YD1 24.25 0.27 0.27 0.9 0.24 259.42 0.24 10 3.38 3.12 12 259.36 19 to 20

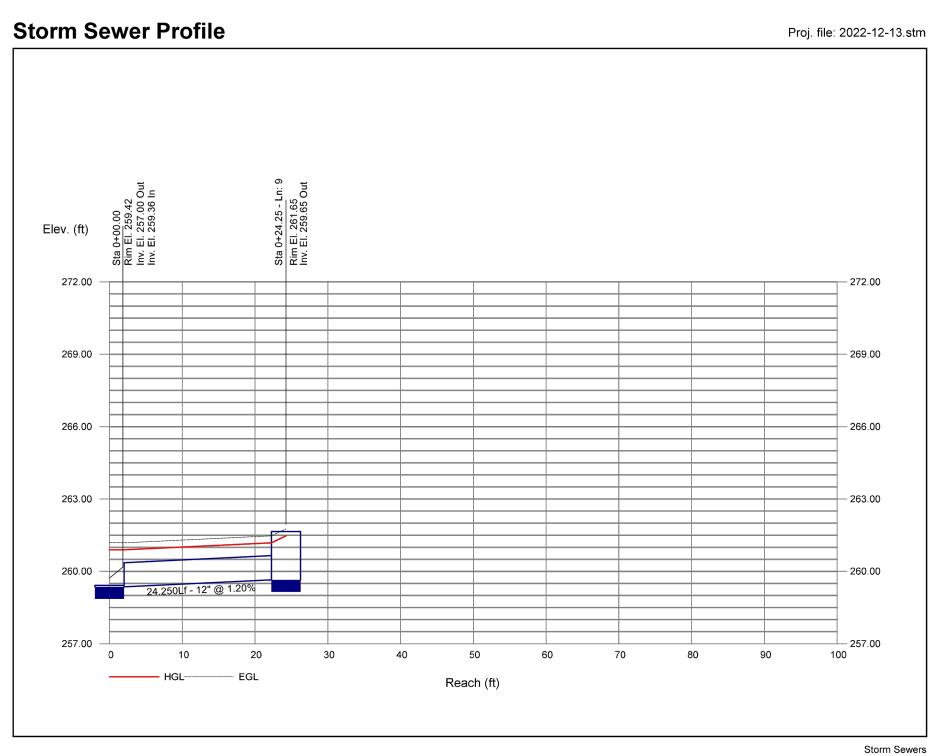
									25-YE	AR STORM	EVENT	STORM	SEWER	CALCULATIO	ONS									
									Ma	anning's 'n' v	alue of 0.	.015 was	used in th	e calculations						,				
From	To Structure	Line	Increment	Total Area		Increment		1	Time of Concentration	Rainfal Intensity				Capacity Full	1	Pipe Size		Inv Elev	Inv Elev	HGL Down		Grnd/Rim Down	Grnd/Rim Up	Lino ID
Structure 20	Structure Outfall	Length (ft) 174.6	Area (acres) 0.00	(acres) 1.47	Runoff Coeff. C 0.30	0.00	Total C x A	(min) 10.0	(min) 11.8	(in/hr) 6.2	(cfs) 7.90	Flow (cfs) 0.00	(cfs) 7.90	(cfs) 13.92	(ft/s) 2.52	24	Slope (%) 0.50	Down (ft) 256.12	Up (ft) 257.00	259.71	HGL Up (ft) 259.99	0.00	(π) 259.42	Line ID 20 to Outfall
18	20	28.7	0.01	1.08	0.30	0.00	0.97	10.0	11.7	6.2	6.01	0.00	6.01	6.35	3.80	18	0.49	258.82	258.96	260.09	260.20	259.42	262.40	18 to 20
17	18	16.7	0.11	1.07	0.90	0.10	0.96	10.0	11.6	6.2	6.01	0.00	6.01	6.31	3.54	18	0.48	258.96	259.04	260.34	260.40	262.40	262.61	17 to 18
16	17	116.3	0.40	0.96	0.90	0.36	0.86	10.0	11.0	6.4	5.51	0.00	5.51	6.43	3.33	18	0.50	259.04	259.62	260.50	260.86	262.61	262.50	16 to 17
15	16	95.8	0.25	0.56	0.90	0.23	0.50	10.0	10.4	6.5	3.28	0.00	3.28	3.96	2.69	15	0.50	259.62	260.10	261.00	261.30	262.50	262.50	15 to 16
14	15	52.41	0.31	0.31	0.90	0.28	0.28	10.0	10.0	6.6	1.84	0.00	1.84	2.17	2.34	12	0.50	260.10	260.36	261.42	261.61	262.50	262.50	14 to 15
YD1	20	66.85	0.12	0.12	0.55	0.07	0.07	10.0	10.0	6.6	0.43	0.00	0.43	0.75	2.22	8	0.51	260.46	260.80	260.83	261.17	259.42	262.50	YD2 to YD1
YD2	YD1	24.25	0.27	0.27	0.9	0.24	0.24	10	10	6.6	1.6	0	1.6	3.38	3.16	12	1.2	259.36	259.65	260.09	260.19	259.42	261.65	19 to 20

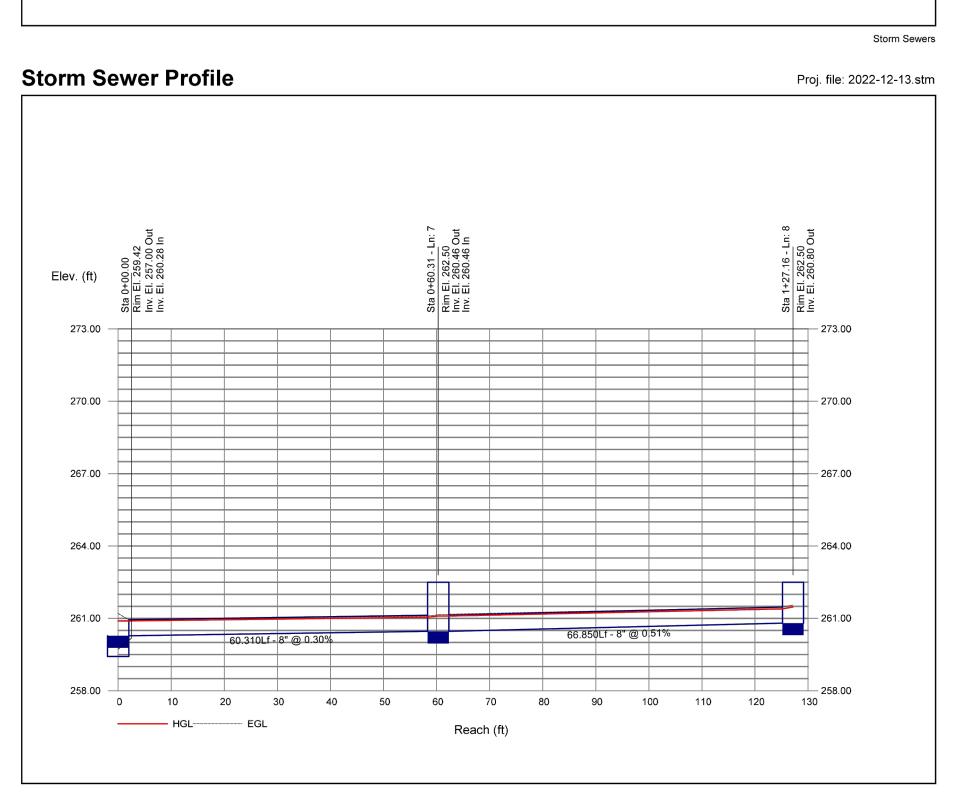




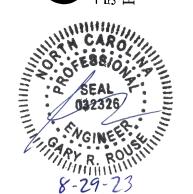








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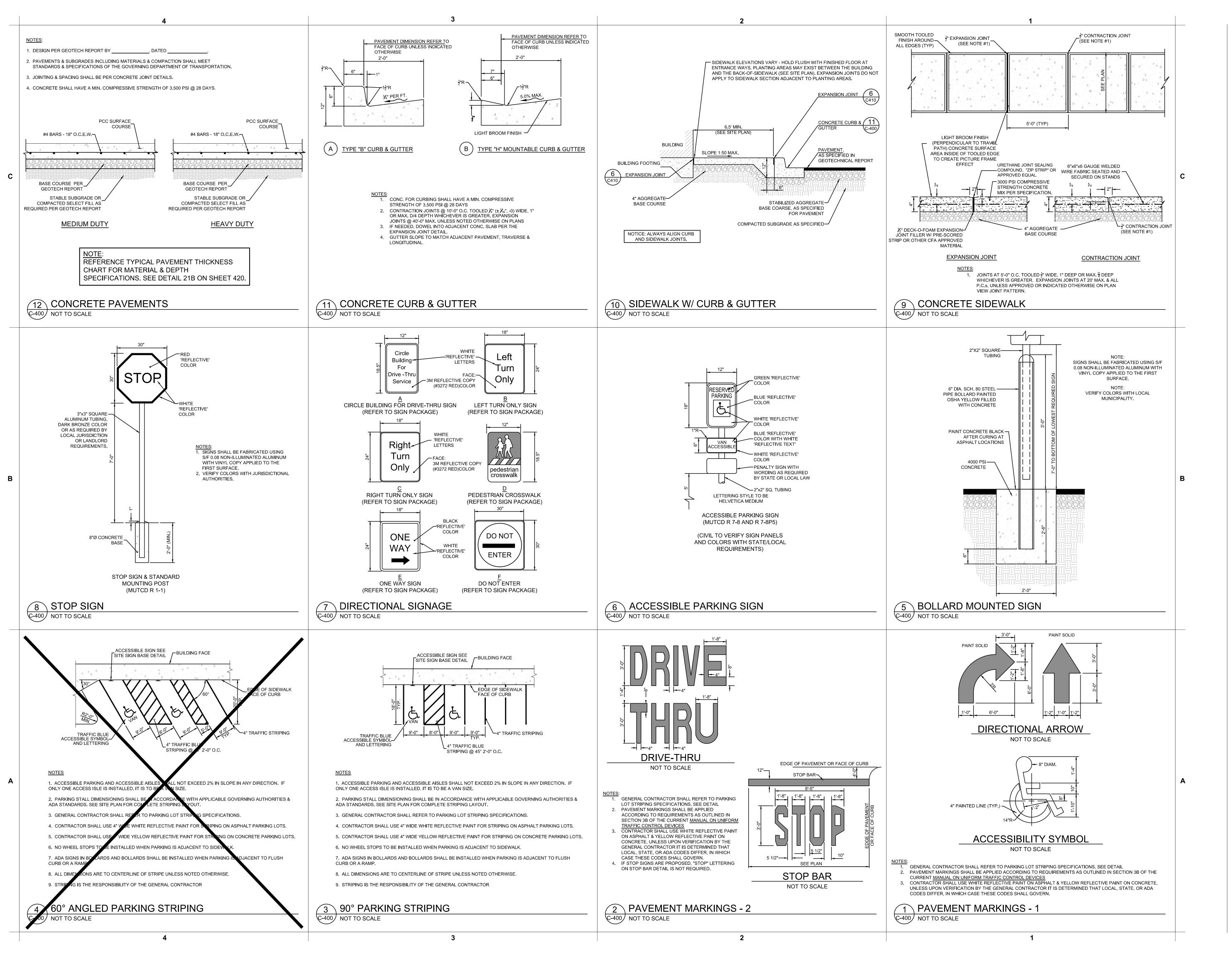
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REVISION SCHEDULE NO. DATE DESCRIPTION by Katherine Shor

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Storm Sewers



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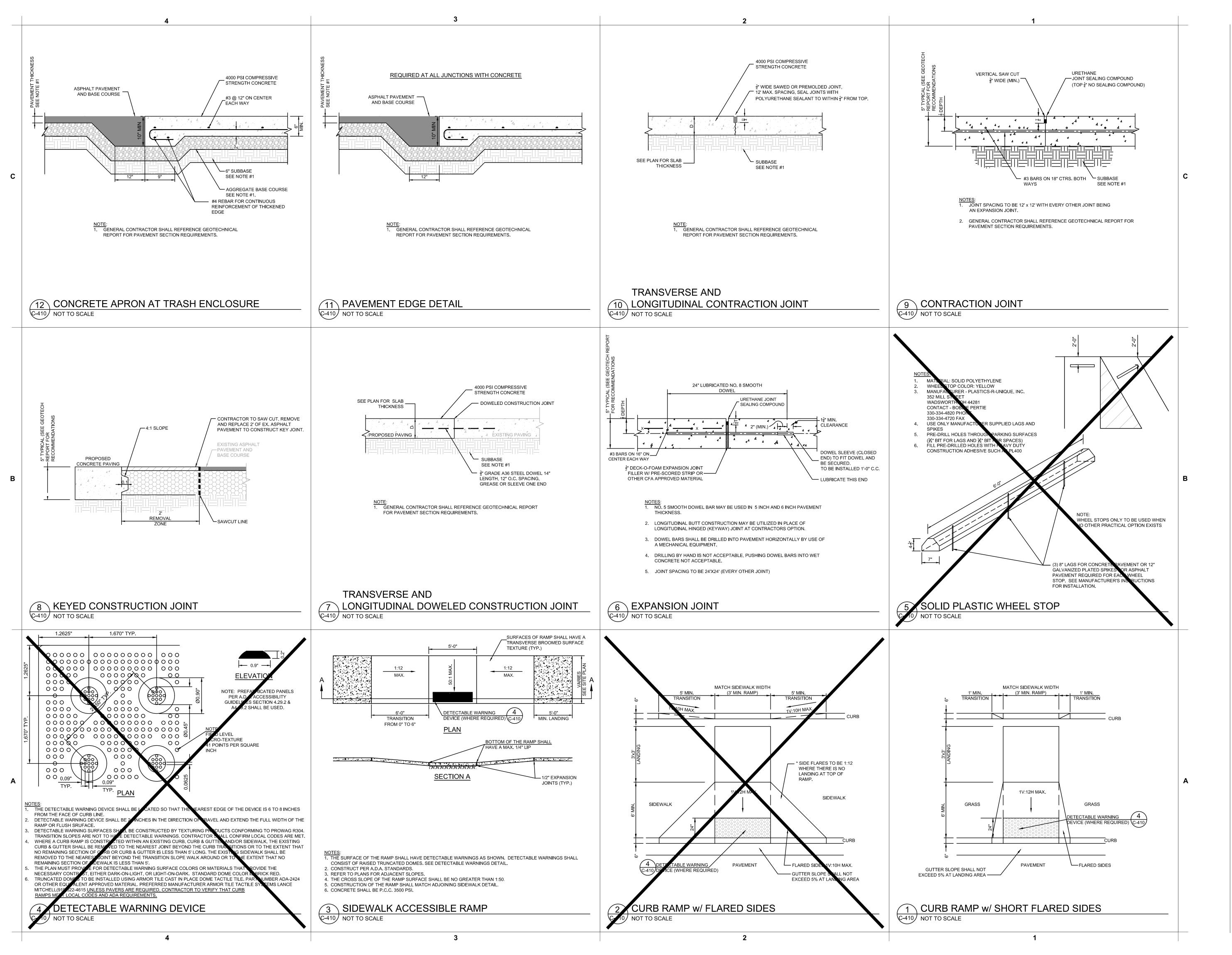
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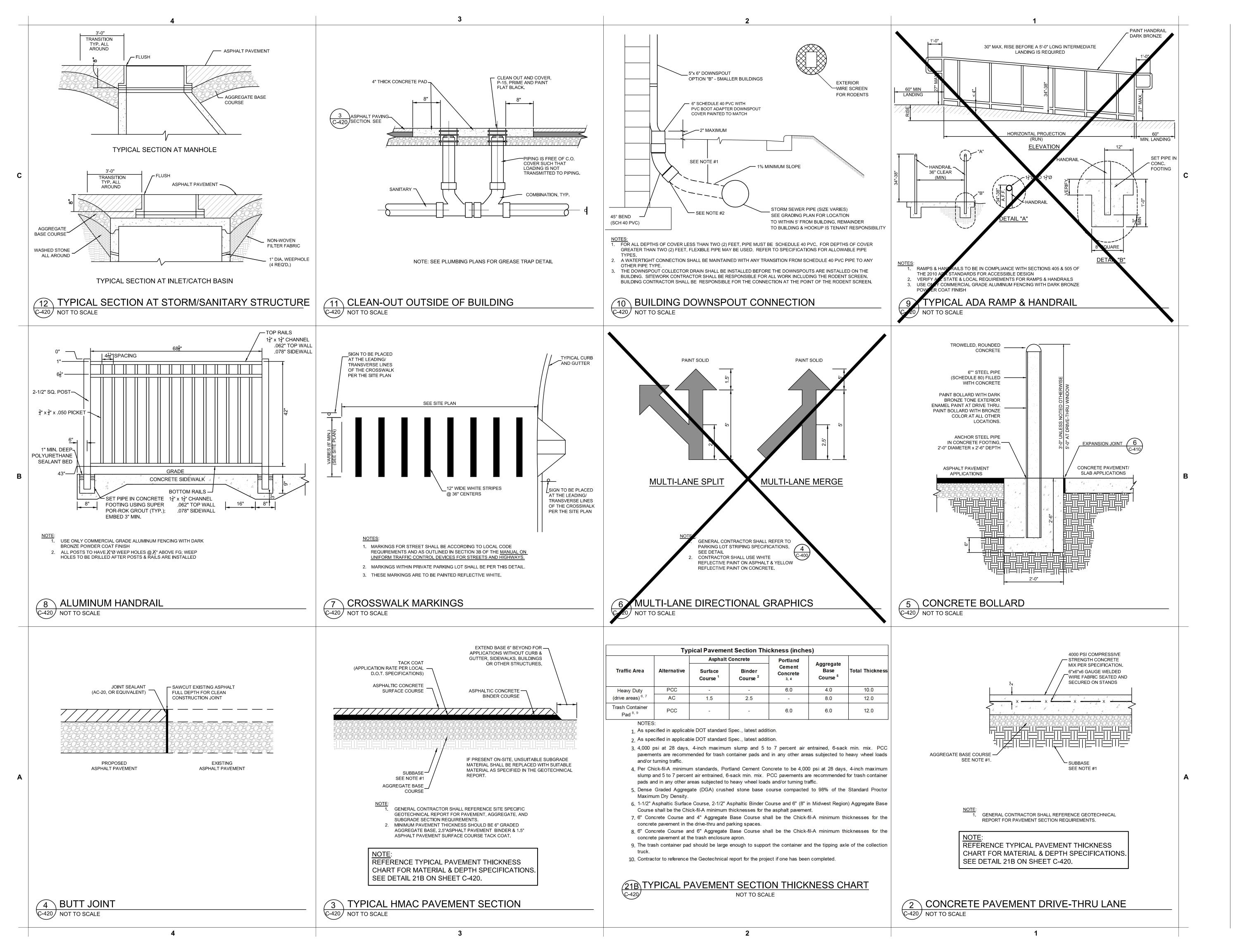
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REVISION SCHEDULE NO. DATE Zoning Approved by Katherine Shor 09/14/2023

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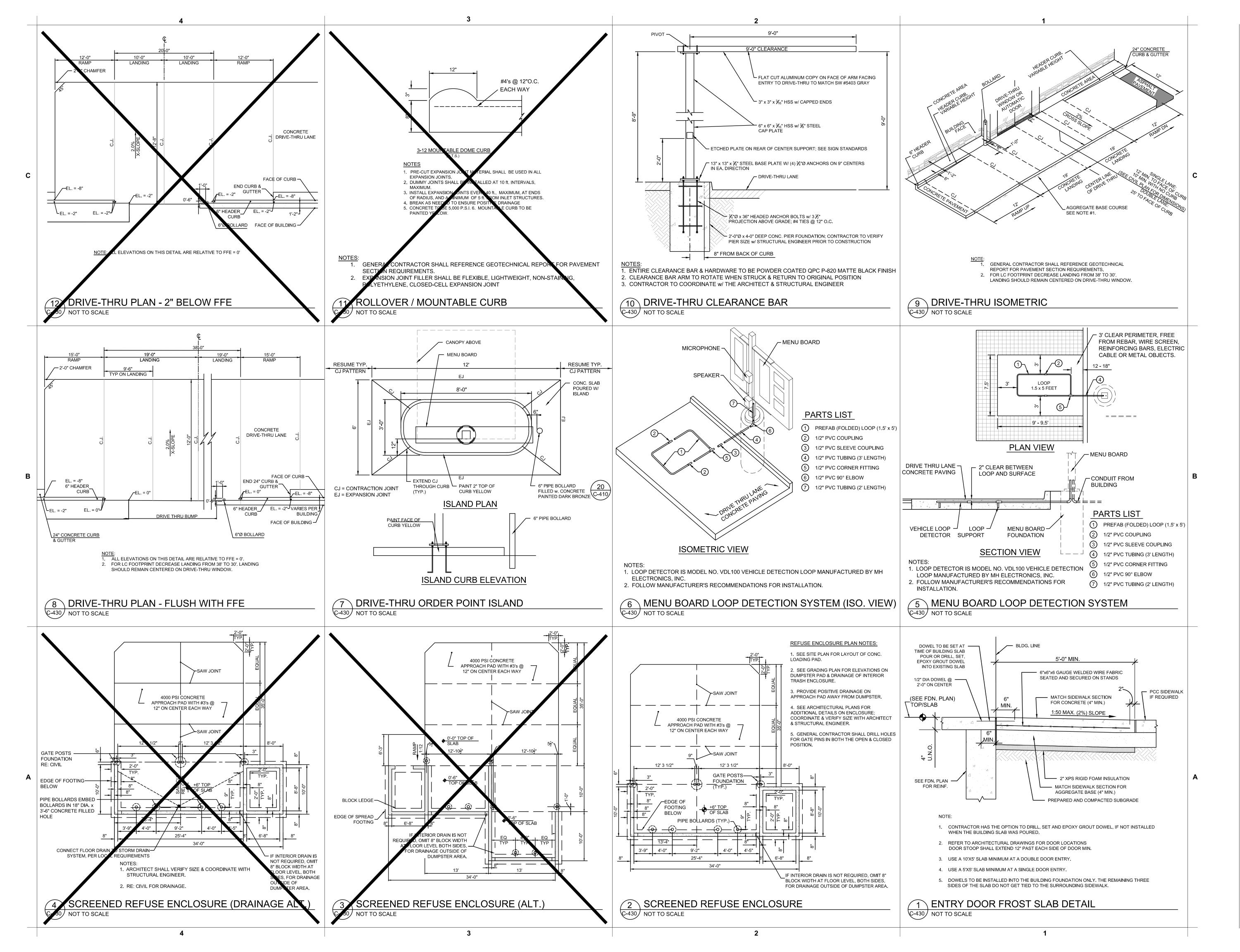
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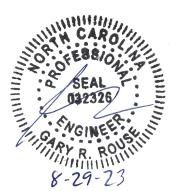
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