

PROJECT ROCKY HILL MBTA COMMUNITY													Rev-0
ADDRESS		AMESBURY, MA											
Date of plans													
Date of submission													
BASE BID		\$ -	BID A										
BASE BID		\$ -	BID B										
SR. NO.	DWG. NO.	DETAIL NO.	CSI	DESCRIPTION	QTY.	WASTE	QTY. W/ WASTE	UNIT	Labor Cost	Material Cost	TOTAL UNIT COST	TOTAL COST	SUB TOTAL
BID PACKAGE -A													
DEMOLITION													
				Allowance for Demolition	1	0%	1	LS	\$ -				
				Erosion control items not found in plan.so we have provided allowance.									
				Subtotal									\$ -
EROSION SEDIMENT CONTROL													
	C-9.1-9.4	C10.6		Stabilized Construction Entrance -6" Crushed Stone	30	3%	30	CY					
	C-9.1-9.4	C10.6		Filter Cloth	1599	3%	1,647	SF					
	C-9.1-9.4	C10.6		Inlet Protection	98	0%	98	EA					
	C-9.1-9.4	C10.6		Erosion Control barrier	9543	3%	9,830	LF					
	C-9.1-9.4	C10.6		Stock Pile Area: -Area:15000 SF	1	0%	1	LS					
				Subtotal									\$ -
EARTHWORK													
	Plan	Grading Report		Clearing & Grubbing - Area: 320,971 SF	1	0%	1	LS					
	Plan	Assumed		6" Topsoil Stripping Assumed - Area: 320,971 SF	5944	3%	6,122	CY					
	Plan			Excess Topsoil	5944	3%	6,122	CY					
	Plan			We have assumed detail of topsoil stripping									
	Plan			Loads to be hauled away (20 loads/CY)	307	0%	307	Loads					
	Plan	Grading Report		Cut for mass grading	2527	3%	2,603	CY					
	Plan	Grading Report		Fill for mass grading	32726	3%	33,708	CY					
	Plan	Grading Report		Net Fill	30199	3%	31,105	CY					
				Excavation For Trench /footing	10364	3%	10,675	CY					
				Backfill For Trench /footing	6352	3%	6,543	CY					
				Excess Soil	4012	3%	4,132	CY					
	Plan	Grading Report		Net Fill	26187	0%	26,187	CY					
	Plan	Grading Report		Loads to be Imported (20 loads/CY)	1310	0%	1,310	Loads					
				Subtotal									\$ -

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SR. NO.	DWG. NO.	DETAIL NO.	CSI	DESCRIPTION	QTY.	WASTE	QTY. W/ WASTE	UNIT	Labor Cost	Material Cost	TOTAL UNIT COST	TOTAL COST	SUB TOTAL	
				SITE IMPROVEMNETS										
				MAIN ACCESS ROAD										
	C5.0-5.3	C10.0		1.5" Type 1-1 Top Course	95737	3%	98,609	SF						
	C5.0-5.3	C10.0		2" Type 1-2 Binder Course	95737	3%	98,609	SF						
	C5.0-5.3	C10.0		6" Procesed Gravel	1773	3%	1,826	CY						
	C5.0-5.3	C10.0		8" Gravel Borrow	2376	3%	2,447	CY						
				CONCRETE SIDEWALK										
	C5.0-5.3	C10.0	263 CY	5" Thick Concrete Sidewalk 4000 PSI -Medium Broom Finish	16384	3%	16,875	SF						
	C5.0-5.3	C10.0		6x6 W2.9 x W2.9 W.W.F	16384	3%	16,875	SF						
	C5.0-5.3	C10.0		3/4" Smooth Dowel w/ Sleeve @ 12" O.C Coat With Bond Breaking Compound Before Adjacent Slab is poured	5512	0%	5,512	EA						
	C5.0-5.3	C10.0		Control Joint	2621	3%	2,700	LF						
	C5.0-5.3	C10.0		Expansion Joint	1311	3%	1,350	LF						
	C5.0-5.3	C10.0		12" Compacted Gravel base	607	3%	625	CY						
	C5.0-5.3	C10.0		Compacted Subgrade	16384	3%	16,875	SF						
	C5.0-5.3	C10.0		5" Edge Form	5511	3%	5,676	LF						
				EMERGENCY ACCESS										
	C5.0-5.3	C10.0		3" Permeable Bituminous Concrete	14219	3%	14,646	SF						
	C5.0-5.3	C10.0		2" PeaStone Choker Layer	90	3%	92	CY						
	C5.0-5.3	C10.0		12" Crushed Stone	527	3%	542	CY						
				PARKING AREA										
	C5.0-5.3	C10.0		1.5" Type 1-1 Top Course	28159	3%	29,004	SF						
	C5.0-5.3	C10.0		2" Type 1-2 Binder Course	28159	3%	29,004	SF						
	C5.0-5.3	C10.0		6" Procesed Gravel	521	3%	537	CY						
	C5.0-5.3	C10.0		8" Gravel Borrow	699	3%	720	CY						
				TRASH ENCLOSURE										
			7 CY	6" Thick Concrete Pad 4000 PSI	344	3%	354	SF						
	C5.0-5.3	Assumed		6x6 W2.9 x W2.9 W.W.F	344	3%	354	SF						
	C5.0-5.3	Assumed		Control Joint	55	3%	57	LF						
	C5.0-5.3	Assumed		Expansion Joint	28	3%	28	LF						
	C5.0-5.3	Assumed		12" Compacted Gravel base	13	3%	13	CY						
	C5.0-5.3	Assumed		6" Edge Form	82	3%	84	LF						
				PROPOSED RETAINING WALL AVERAGE H 3'-0"										
	C5.0-5.3	L3.0		Modular Block Wall -Finish: Split or Rustic Face	441	3%	454	SF						

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	C5.0-5.3	L3.0		Leveling Pad	5	3%	6	CY						
	C5.0-5.3	L3.0		Modular Block Wall Cap	147	3%	151	LF						
	C5.0-5.3	L3.0		Fence or Rail on Wall	147	3%	151	LF						
	C5.0-5.3	L3.0		12" Thick Grainage Aggregate	16	3%	17	CY						
	C5.0-5.3	L3.0		Drainage Pipe	147	3%	151	LF						
				PROPOSED RETAINING WALL AVERAGE H 2'-0"										
	C5.0-5.3	L3.0		Stones From On Site Sources or Selected To Match	142	3%	146	SF						
	C5.0-5.3	L3.0		12" Compacted Crushed Stone Base	8	3%	8	CY						
	C5.0-5.3	L3.0		1'-5" Min Wide Stones Wall	213	3%	219	SF						
	C5.0-5.3	L3.0		Crushed Stone	5	3%	5	CY						
				Subtotal										\$ -
	SITE UTILITIES													
				12" HDPE STORM PIPE										
	C5.0-5.3	Plan		12" HDPE Storm Pipe	1955	3%	2,014	LF						
	C5.0-5.3	Plan		Excavation	1847	3%	1,902	CY						
	C5.0-5.3	Plan		Layback Excavation	453	3%	466	CY						
	C5.0-5.3	Plan		Layback backfill	453	3%	466	CY						
	C5.0-5.3	Plan		Bedding Material	486	3%	501	CY						
	C5.0-5.3	Plan		Backfill	1304	3%	1,343	CY						
				18" HDPE STORM PIPE										
	C5.0-5.3	Plan		18" HDPE Storm Pipe	550	3%	567	LF						
	C5.0-5.3	Plan		Excavation	642	3%	661	CY						
	C5.0-5.3	Plan		Layback Excavation	183	3%	189	CY						
	C5.0-5.3	Plan		Layback backfill	183	3%	189	CY						
	C5.0-5.3	Plan		Bedding Material	178	3%	183	CY						
	C5.0-5.3	Plan		Back Fill	428	3%	441	CY						
				STORMTECH SC 740										
				INFILTRATION BASIN 6										
	C5.0-5.3	C10.2		Excavation	295	3%	303	CY						
	C5.0-5.3	C10.2		Crushed Angular Stone	177	3%	182	CY						
	C5.0-5.3	C10.2		Back Fill	118	3%	121	CY						
	C5.0-5.3	C10.2		Geosynthethics 6011 Non Woven Geotextile all around Clean crushed Angular Stone	1591	3%	1,639	SF						
				INFILTRATION BASIN										
				Infiltration basin 4										

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	C5.0-5.3	C10.2		6" Loam & Seed	42	3%	43	CY					
	C5.0-5.3	C10.2		24" Coarse Sand	168	3%	173	CY					
				Infiltration basin 5									
	C5.0-5.3	C10.2		6" Loam & Seed	111	3%	114	CY					
	C5.0-5.3	C10.2		24" Coarse Sand	445	3%	458	CY					
				STORMTECH SC 740									
				SUBSURFACE DETENTION BASIN 4									
	C5.0-5.3	C10.2		Excavation	694	3%	715	CY					
	C5.0-5.3	C10.2		Crushed Angular Stone	416	3%	429	CY					
	C5.0-5.3	C10.2		Back Fill	278	3%	286	CY					
	C5.0-5.3	C10.2		Geosynthethics 6011 Non Woven Geotextile all around Clean crushed Angular Stone	3747	3%	3,859	SF					
				STORMTECH SC 310									
				SURFACE INFILTRATION AREA 5									
	C6.0-6.3	C10.2		Excavation	1112	3%	1,145	CY					
	C6.0-6.3	C10.2		Crushed Angular Stone	667	3%	687	CY					
	C6.0-6.3	C10.2		Back Fill	445	3%	458	CY					
	C6.0-6.3	C10.2		Geosynthethics 6011 Non Woven Geotextile all around Clean crushed Angular Stone	6003	3%	6,183	SF					
				RIPRAP									
	C6.0-6.3	Plan		Riprap Aggregate	11	0%	11	CY					
				STORM STRUCTURE									
	C6.0-6.3	Plan		Storm Manhole	28	0%	28	EA					
	C6.0-6.3	Plan		Excavation	122	3%	126	CY					
	C6.0-6.3	Plan		Bedding Material	20	3%	21	CY					
	C6.0-6.3	Plan		Back Fill	37	3%	38	CY					
				STORM STRUCTURE									
	C6.0-6.3	Plan		Catch Basin	26	0%	26	EA					
	C6.0-6.3	C10.2		Excavation	120	3%	124	CY					
	C6.0-6.3	C10.2		Bedding Material	24	3%	25	CY					
	C6.0-6.3	C10.2		Back Fill	35	3%	36	CY					
				OCS	1	0%	1	EA					
	C6.0-6.3	C10.2		Excavation	5	3%	5	CY					
	C6.0-6.3	C10.2		Bedding Material	1	3%	1	CY					

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	C6.0-6.3	C10.2		Back Fill	1	3%	1	CY					
				WATER SERVICES									
				10" DIP WATER LINE									
	C6.0-6.3	Plan		10" Dip Water Line	1834	3%	1,889	LF					
	C6.0-6.3	Plan		Excavation	112	3%	115	CY					
	C6.0-6.3	Plan		Bedding Material	40	3%	41	CY					
	C6.0-6.3	Plan		Back Fill	68	3%	71	CY					
				8" DIP WATER LINE									
	C6.0-6.3	Plan		8" Dip Water Line	3661	3%	3,771	LF					
	C6.0-6.3	Plan		Excavation	2172	3%	2,237	CY					
	C6.0-6.3	Plan		Bedding Material	557	3%	574	CY					
	C6.0-6.3	Plan		Back Fill	1568	3%	1,615	CY					
				6" DIP WATER LINE									
	C6.0-6.3	Plan		6" Dip Water Line	44	3%	45	LF					
	C6.0-6.3	Plan		Excavation	24	3%	25	CY					
	C6.0-6.3	Plan		Bedding Material	8	3%	8	CY					
	C6.0-6.3	Plan		Back Fill	16	3%	17	CY					
				MISC ITEMS									
	C6.0-6.3	Plan		10" Existing DIP Water Main Stub	1	0%	1	EA					
	C6.0-6.3	Plan		10" x 10" x 8" TEE	3	0%	3	EA					
	C6.0-6.3	Plan		Fire Hydrant	5	0%	5	EA					
				SANITARY SERVICES									
				10" PVC SANITARY LINE									
	C6.0-6.3	Plan		10" PVC Sanitary Line	1843	3%	1,899	LF					
	C6.0-6.3	Plan		Excavation	1730	3%	1,782	CY					
	C6.0-6.3	Plan		Layback Excavation	614	3%	633	CY					
	C6.0-6.3	Plan		Layback backfill	614	3%	633	CY					
	C6.0-6.3	Plan		Bedding Material	411	3%	424	CY					
	C6.0-6.3	Plan		Back Fill	1282	3%	1,321	CY					
				8" PVC SANITARY LINE									
	C6.0-6.3	Plan		8" PVC Sanitary Line	307	3%	316	LF					
	C6.0-6.3	Plan		Excavation	304	3%	313	CY					
	C6.0-6.3	Plan		Layback Excavation	182	3%	187	CY					
	C6.0-6.3	Plan		Layback backfill	182	3%	187	CY					
	C6.0-6.3	Plan		Bedding Material	47	3%	48	CY					

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	C6.0-6.3	Plan		Back Fill	253	3%	261	CY					
				SANITARY STRUCTURE									
	C6.0-6.3			Sanitary Manhole	15	0%	15	EA					
	C6.0-6.3	Plan		Excavation	65	3%	67	CY					
	C6.0-6.3	Plan		Bedding Material	11	3%	11	CY					
	C6.0-6.3	Plan		Back Fill	20	3%	20	CY					
				LANDSCAPING									
				Tree									
				Evergreen Tree	35	0%	35	EA					
				Flowering/ Under Story Tree	112	0%	112	EA					
				Shade Tree	170	0%	170	EA					
				Speciman Tree	2	0%	2	EA					
				Green Area									
				Green Area Lawn	109365	0%	109365	SF					
				Mown Path	6392	0%	6392	SF					
				Mulching Assumed	109365	0%	109365	SF					
				Shrubs									
				Shrubs & Perennials	39410	0%	39410	SF					
				Columnar Evergreen	68	0%	68	EA					
				Site Furnishes									
				Entrance Sign Board	2	0%	2	EA					
				AC Heat Pump Condenser	76	0%	76	EA					
				Park Bench	9	0%	9	EA					
				Picnic Table	9	0%	9	EA					
				Rail Fence	1935	0%	1935	LF					
				Site Lighting	33	0%	33	EA					
				Specialty Paving	8272	0%	8272	SF					
				Stormwater Basin	11075	0%	11075	SF					
				Subtotal									\$ -
TOTAL												\$ -	\$ -
OVER HEAD & PROFIT											15.00%	\$ -	\$ -
SALES TAX											6.00%	\$ -	\$ -
BASE BID-BID A												\$ -	\$ -
	BID PACKAGE -B												
	EARTHWORK -BID B												

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	Plan	Grading Report		Clearing & Grubbiing - Area: 1,059,631 SF	1	0%	1	LS						
	Plan	Assumed		6" Topsoil Stripping Assumed - Area: 1,059,631 SF	19623	3%	20,211	CY						
	Plan			Excess Topsoil	19623	3%	20,211	CY						
				We have assumed detail of topsoil stripping										
	Plan			Loads to be hauled away (20 loads/CY)	1011	0%	1,011	Loads						
	Plan	Grading Report		Cut for mass grading	9101	3%	9,374	CY						
	Plan	Grading Report		Fill for mass grading	101175	3%	104,210	CY						
	Plan	Grading Report		Net Fill	92074	3%	94,836	CY						
				Excavation For Trench /footing	16797	3%	17,301	CY						
				Backfill For Trench /footing	10640	3%	10,959	CY						
				Excess Soil	6157	3%	6,342	CY						
	Plan	Grading Report		Net Fill	85917	0%	85,917	CY						
	Plan	Grading Report		Loads to be Imported (20 loads/CY)	4296	0%	4,296	Loads						
				Subtotal									\$ -	
	SITE IMPROVEMNETS -BID B													
				PARKING AREA										
	C5.0-5.3	C10.0		1.5" Type 1-1 Top Course	51051	3%	52,583	SF						
	C5.0-5.3	C10.0		2" Type 1-2 Binder Course	51051	3%	52,583	SF						
	C5.0-5.3	C10.0		6" Procesed Gravel	945	3%	974	CY						
	C5.0-5.3	C10.0		8" Gravel Borrow	1267	3%	1,305	CY						
				SIDEWALK										
	C5.0-5.3	C10.0	1070 CY	5" Thick Concrete Sidewalk 4000 PSI -Medium Broom Finish	66791	3%	68,795	SF						
	C5.0-5.3	C10.0		6x6 W2.9 x W2.9 W.W.F	66791	3%	68,795	SF						
	C5.0-5.3	C10.0		3/4" Smooth Dowel w/ Sleeve @ 12" O.C Coat With Bond Breaking Compound Before Adjacent Slab is poured	5512	0%	5,512	EA						
	C5.0-5.3	C10.0		Control Joint	10687	3%	11,007	LF						
	C5.0-5.3	C10.0		Expansion Joint	5343	3%	5,504	LF						
	C5.0-5.3	C10.0		12" Compacted Gravel base	2474	3%	2,548	CY						
	C5.0-5.3	C10.0		Compacted Subgrade	66791	3%	68,795	SF						
	C5.0-5.3	C10.0		5" Edge Form	19399	3%	19,981	LF						
				DRIVEWAY ROAD										

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	C5.0-5.3	C10.0		1.5" Type 1-1 Top Course	191919	3%	197,677	SF					
	C5.0-5.3	C10.0		2" Type 1-2 Binder Course	51051	3%	52,583	SF					
	C5.0-5.3	C10.0		6" Procesed Gravel	945	3%	974	CY					
	C5.0-5.3	C10.0		8" Gravel Borrow	1267	3%	1,305	CY					
				TRASH ENCLOSURE									
	C5.0-5.3		27 CY	6" Thick Concrete Pad 4000 PSI	1427	3%	1,470	SF					
	C5.0-5.3	Assumed		6x6 W2.9 x W2.9 W.W.F	1427	3%	1,470	SF					
	C5.0-5.3	Assumed		Control Joint	228	3%	235	LF					
	C5.0-5.3	Assumed		Expansion Joint	114	3%	118	LF					
	C5.0-5.3	Assumed		12" Compacted Gravel base	53	3%	54	CY					
	C5.0-5.3	Assumed		6" Edge Form	380	3%	391	LF					
				PICKLEBELL AREA									
	C5.0-5.3	Assumed		Media Soil	96	3%	98	CY					
				PROPOSED RETAINING WALL AVERAGE H 5'-0"									
	C5.0-5.3	L3.0		Modular Block Wall	1415	3%	1,457	SF					
				-Finish: Split or Rustic Face									
	C5.0-5.3	L3.0		Leveling Pad	10	3%	11	CY					
	C5.0-5.3	L3.0		Modular Block Wall Cap	283	3%	291	LF					
	C5.0-5.3	L3.0		Fence or Rail on Wall	283	3%	291	LF					
	C5.0-5.3	L3.0		12" Thick Grainage Aggregate	52	3%	54	CY					
	C5.0-5.3	L3.0		Drainage Pipe	283	3%	291	LF					
				GYM & BASKET BALL COURT									
			94 CY	6" Thick Concrete Pad 4000 PSI	4916	3%	5,063	SF					
	C5.0-5.3	Assumed		6x6 W2.9 x W2.9 W.W.F	4916	3%	5,063	SF					
	C5.0-5.3	Assumed		Control Joint	787	3%	810	LF					
	C5.0-5.3	Assumed		Expansion Joint	393	3%	405	LF					
	C5.0-5.3	Assumed		12" Compacted Gravel base	182	3%	188	CY					
	C5.0-5.3	Assumed		6" Edge Form	3333	3%	3,433	LF					
				PAVEMENT MARKING									
	C5.0-5.3	Plan		Parking Stall Marking	4032	3%	4,153	LF					
				GRANITE CURB									
	C5.0-5.3	C10.0		6" Granite Curb Type VA-4 & Vb 6" Reveal	5520	3%	5,685	LF					
	C5.0-5.3	C10.0		6" gravel Borrow	153	3%	158	CY					
	C5.0-5.3												
				Subtotal									\$ -

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Date of plans														
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BASE BID		\$	-	BID A										
BASE BID		\$	-	BID B										
SR. NO.	DWG. NO.	DETAIL NO.	CSI	DESCRIPTION	QTY.	WASTE	QTY. W/ WASTE	UNIT	Labor Cost	Material Cost	TOTAL UNIT COST	TOTAL COST	SUB TOTAL	
	SITE UTILITIES -BID B													
				STORM SERVICES										
				12" HDPE STORM PIPE										
	C6.0-6.3	Plan		12" HDPE Storm Pipe	4089	3%	4,211	LF						
	C6.0-6.3	Plan		Excavation	3861	3%	3,977	CY						
	C6.0-6.3	Plan		Layback Excavation	946	3%	975	CY						
	C6.0-6.3	Plan		Layback backfill	946	3%	975	CY						
	C6.0-6.3	Plan		Bedding Material	1017	3%	1,047	CY						
	C6.0-6.3	Plan		Back Fill	2726	3%	2,808	CY						
				18" HDPE STORM PIPE										
				18" HDPE Storm Pipe	613	3%	631	LF						
	C6.0-6.3	Plan		Excavation	715	3%	737	CY						
	C6.0-6.3	Plan		Layback Excavation	204	3%	210	CY						
	C6.0-6.3	Plan		Layback backfill	204	3%	210	CY						
	C6.0-6.3	Plan		Bedding Material	198	3%	204	CY						
	C6.0-6.3	Plan		Back Fill	477	3%	491	CY						
				24" HDPE STORM PIPE										
				24" HDPE Storm Pipe	41	3%	42	LF						
	C6.0-6.3	Plan		Excavation	55	3%	56	CY						
	C6.0-6.3	Plan		Layback Excavation	14	3%	14	CY						
	C6.0-6.3	Plan		Layback backfill	14	3%	14	CY						
	C6.0-6.3	Plan		Bedding Material	16	3%	17	CY						
	C6.0-6.3	Plan		Back Fill	33	3%	34	CY						
				STORMTECH SC 740										
				INFILTRATION BASIN 1										
	C6.0-6.3	C10.2		Excavation	1000	3%	1,030	CY						
	C6.0-6.3	C10.2		Crushed Angular Stone	600	3%	618	CY						
	C6.0-6.3	C10.2		Back Fill	400	3%	412	CY						
	C6.0-6.3	C10.2		Geosynthethics 6011 Non Woven Geotextile all around Clean crushed Angular Stone	5400	3%	5,562	SF						
				INFILTRATION BASIN 2										
	C6.0-6.3	C10.2		Excavation	701	3%	722	CY						
	C6.0-6.3	C10.2		Crushed Angular Stone	420	3%	433	CY						
	C6.0-6.3	C10.2		Back Fill	280	3%	289	CY						
	C6.0-6.3	C10.2		Geosynthethics 6011 Non Woven Geotextile all around Clean crushed Angular Stone	3783	3%	3,896	SF						

PROJECT ROCKY HILL MBTA COMMUNITY													Rev-0
ADDRESS		AMESBURY, MA											
Date of plans													
Date of submission													
BASE BID		\$	-	BID A									
BASE BID		\$	-	BID B									
SR. NO.	DWG. NO.	DETAIL NO.	CSI	DESCRIPTION	QTY.	WASTE	QTY. W/ WASTE	UNIT	Labor Cost	Material Cost	TOTAL UNIT COST	TOTAL COST	SUB TOTAL
				INFILTRATION BASIN 3									
	C6.0-6.3	C10.2		Excavation	874	3%	900	CY					
	C6.0-6.3	C10.2		Crushed Angular Stone	524	3%	540	CY					
	C6.0-6.3	C10.2		Back Fill	350	3%	360	CY					
	C6.0-6.3	C10.2		Geosynthethics 6011 Non Woven Geotextile all around Clean crushed Angular Stone	4719	3%	4,861	SF					
				STORMTECH SC 310									
				INFILTRATION BASIN 5									
	C6.0-6.3	C10.2		Excavation	326	3%	336	CY					
	C6.0-6.3	C10.2		Crushed Angular Stone	195	3%	201	CY					
	C6.0-6.3	C10.2		Back Fill	130	3%	134	CY					
	C6.0-6.3	C10.2		Geosynthethics 6011 Non Woven Geotextile all around Clean crushed Angular Stone	1759	3%	1,812	SF					
				INFILTRATION BASIN 7									
	C6.0-6.3	C10.2		Excavation	279	3%	287	CY					
	C6.0-6.3	C10.2		Crushed Angular Stone	167	3%	172	CY					
	C6.0-6.3	C10.2		Back Fill	111	3%	115	CY					
	C6.0-6.3	C10.2		Geosynthethics 6011 Non Woven Geotextile all around Clean crushed Angular Stone	1505	3%	1,550	SF					
				INFILTRATION BASIN									
				Infiltration basin 1									
	C6.0-6.3	C10.2		6" Loam & Seed	47	3%	49	CY					
	C6.0-6.3	C10.2		24" Coarse Sand	190	3%	196	CY					
				Infiltration basin 5									
	C6.0-6.3	C10.2		6" Loam & Seed	111	3%	114	CY					
	C6.0-6.3	C10.2		24" Coarse Sand	445	3%	458	CY					
				SHEA 8'-0" x 14'-0" CONCRETE DETENTION CHAMBER									
				SUBSURFAEC DETENTION AREA 2									
	C6.0-6.3	C10.2		Excavation	856	3%	881	CY					
	C6.0-6.3	C10.2		3/4" Crushed Stone	190	3%	195	CY					
	C6.0-6.3	C10.2		Back Fill	654	3%	673	CY					
				SUBSURFAEC DETENTION AREA 3									
	C6.0-6.3	C10.2		Excavation	679	3%	700	CY					
	C6.0-6.3	C10.2		3/4" Crushed Stone	151	3%	155	CY					

PROJECT ROCKY HILL MBTA COMMUNITY													Rev-0
ADDRESS		AMESBURY, MA											
Date of plans													
Date of submission													
BASE BID		\$	-	BID A									
BASE BID		\$	-	BID B									
SR. NO.	DWG. NO.	DETAIL NO.	CSI	DESCRIPTION	QTY.	WASTE	QTY. W/ WASTE	UNIT	Labor Cost	Material Cost	TOTAL UNIT COST	TOTAL COST	SUB TOTAL
	C6.0-6.3	C10.2		Back Fill	516	3%	532	CY					
				RIPRAP									
	C6.0-6.3	C10.2		Riprap Aggreagte	208	3%	215	CY					
				STORM STRUCTURE									
	C6.0-6.3	C10.2		Storm manhole	51	0%	51	EA					
	C6.0-6.3	C10.2		Excavation	222	3%	229	CY					
	C6.0-6.3	C10.2		Bedding Material	37	3%	38	CY					
	C6.0-6.3	C10.2		Back Fill	67	3%	69	CY					
	C6.0-6.3	C10.2		Catch basin	61	0%	61	EA					
	C6.0-6.3	C10.2		Excavation	282	3%	291	CY					
	C6.0-6.3	C10.2		Bedding Material	56	3%	58	CY					
	C6.0-6.3	C10.2		Back Fill	81	3%	84	CY					
	C6.0-6.3	C10.2		OCS	7	0%	7	EA					
	C6.0-6.3	C10.2		Excavation	32	3%	33	CY					
	C6.0-6.3	C10.2		Bedding Material	6	3%	7	CY					
	C6.0-6.3	C10.2		Back Fill	9	3%	10	CY					
				WATER SERVICES									
				8" DIP WATER LINE									
	C7.0-7.3	Plan		8" Dip Water Line	1820	3%	1,875	LF					
	C7.0-7.3	Plan		Excavation	1080	3%	1,112	CY					
	C7.0-7.3	Plan		Bedding Material	277	3%	285	CY					
	C7.0-7.3	Plan		Back Fill	779	3%	803	CY					
				6" DIP WATER LINE									
	C7.0-7.3	Plan		6" Dip Water Line	37	3%	38	LF					
	C7.0-7.3	Plan		Excavation	21	3%	21	CY					
	C7.0-7.3	Plan		Bedding Material	7	3%	7	CY					
	C7.0-7.3	Plan		Back Fill	14	3%	14	CY					
	C7.0-7.3	Plan		MISC ITEMS									
	C7.0-7.3			Fire Hydrant	3	0%	3	EA					
				SANITARY SERVICES									
				8" PVC SANITARY LINE									
	C7.0-7.3	Plan		8" PVC Sanitary Line	2893	3%	2,980	LF					
	C7.0-7.3	Plan		Excavation	2861	3%	2,947	CY					

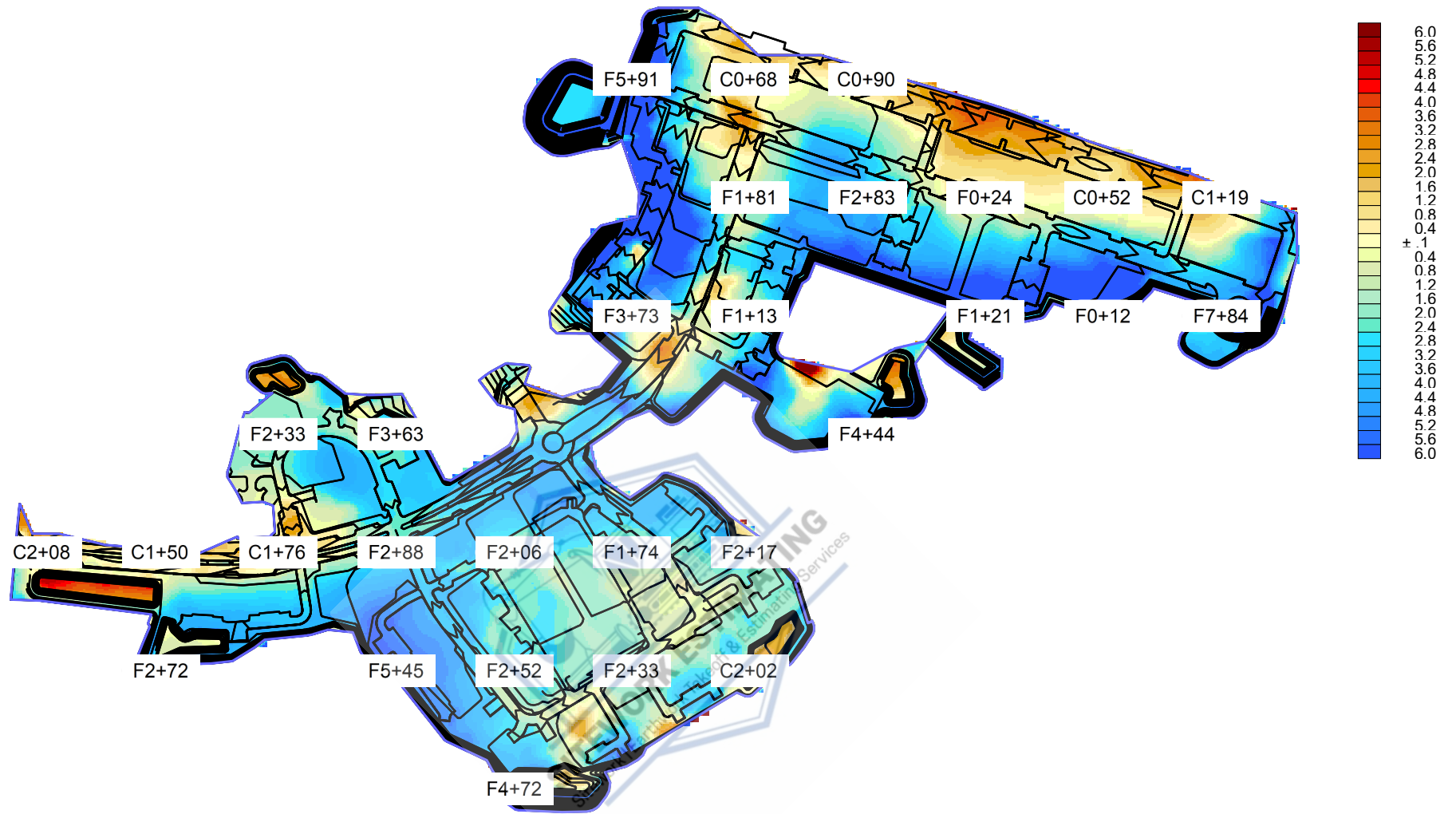
PROJECT		ROCKY HILL MBTA COMMUNITY											Rev-0	
ADDRESS		AMESBURY, MA												
Date of plans														
Date of submission														
BASE BID		\$	-	BID A										
BASE BID		\$	-	BID B										
SR. NO.	DWG. NO.	DETAIL NO.	CSI	DESCRIPTION	QTY.	WASTE	QTY. W/ WASTE	UNIT	Labor Cost	Material Cost	TOTAL UNIT COST	TOTAL COST	SUB TOTAL	
	C7.0-7.3	Plan		Layback Excavation	1714	3%	1,766	CY						
	C7.0-7.3	Plan		Layback backfill	1714	3%	1,766	CY						
	C7.0-7.3	Plan		Bedding Material	440	3%	453	CY						
	C7.0-7.3	Plan		Back Fill	2383	3%	2,455	CY						
				SANITARY STRUCTURE										
				Sanitary Manhole	17	0%	17	EA						
	C7.0-7.3	Plan		Excavation	74	3%	76	CY						
	C7.0-7.3	Plan		Bedding Material	12	3%	13	CY						
	C7.0-7.3	Plan		Back Fill	22	3%	23	CY						
				MISC ITEMS										
	C7.0-7.3	Plan		10" PVC Sewer Stub	1	0%	1	EA						
	C7.0-7.3	Plan		Restrained Cap	3	0%	3	EA						
				Subtotal										
				LANDSCAPING										
				Tree										
				Evergreen Tree	24	0%	24	EA						
				Flowering/ Under Story Tree	140	0%	140	EA						
				Shade Tree	199	0%	199	EA						
				Speciman Tree	3	0%	3	EA						
				Green Area										
				Green Area Lawn	145173	0%	145173	SF						
				Mulching Assumed	145173	0%	145173	SF						
				Shrubs										
				Shrubs & Perennials	59940	0%	59940	SF						
				Columnar Evergreen	84	0%	84	EA						
				Site Furnishes										
				AC Heat Pump Condenser	218	0%	218	EA						
				Dog Park	1495	0%	1495	SF						
				Park Bench	6	0%	6	EA						
				Picnic Table	5	0%	5	EA						
				Rail Fence	632	0%	632	LF						
				Site Lighting	35	0%	35	EA						
				Specialty Paving	3923	0%	3923	SF						
Subtotal (Site Work/ Existing Conditions)														
TOTAL												\$ -	\$ -	
OVER HEAD & PROFIT												15.00%	\$ -	\$ -
SALES TAX												6.00%	\$ -	\$ -

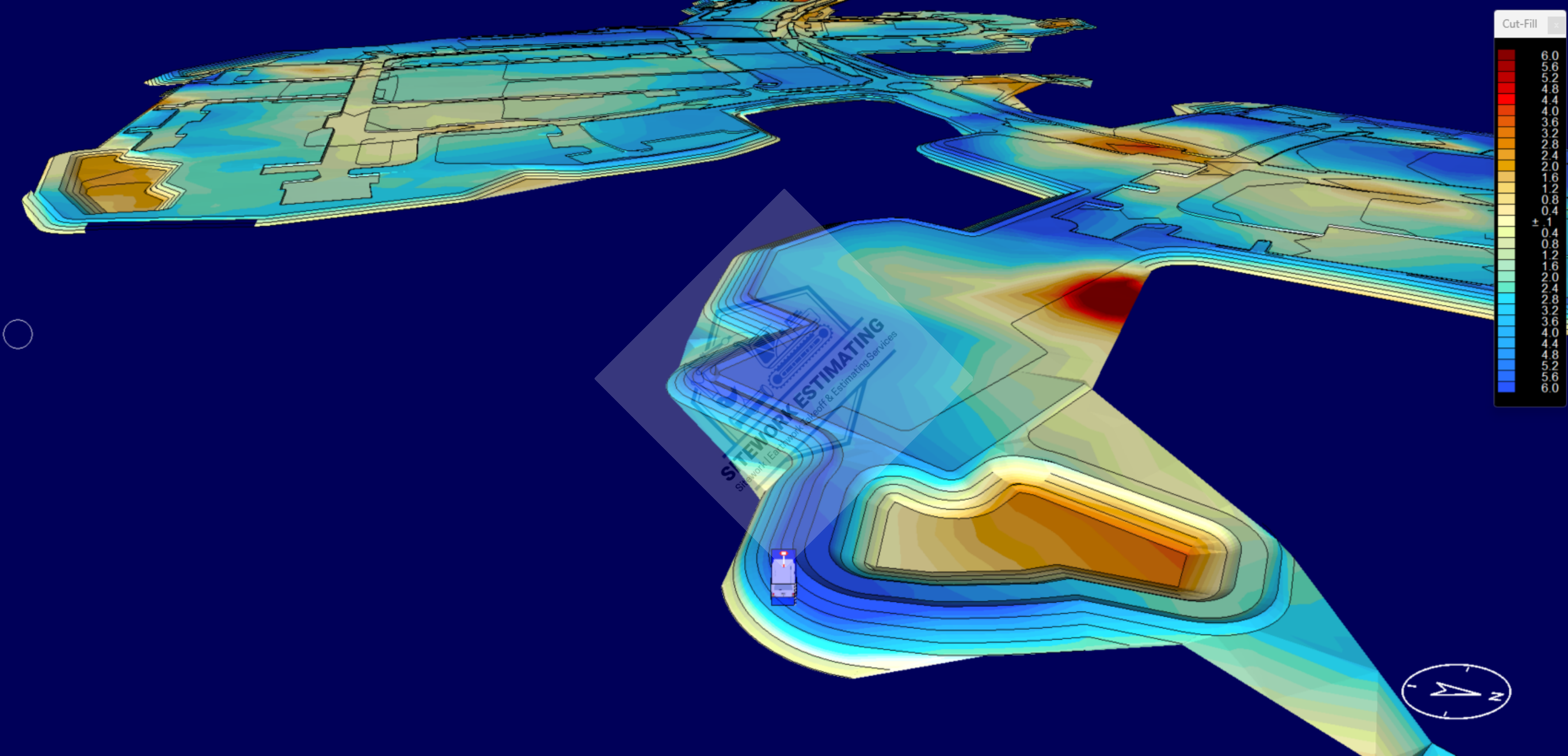
Job: ROCKY HILL
Urban: PL CT
09/15/2025 09:38:23
Volume Report

Subgrade vs. Stripped

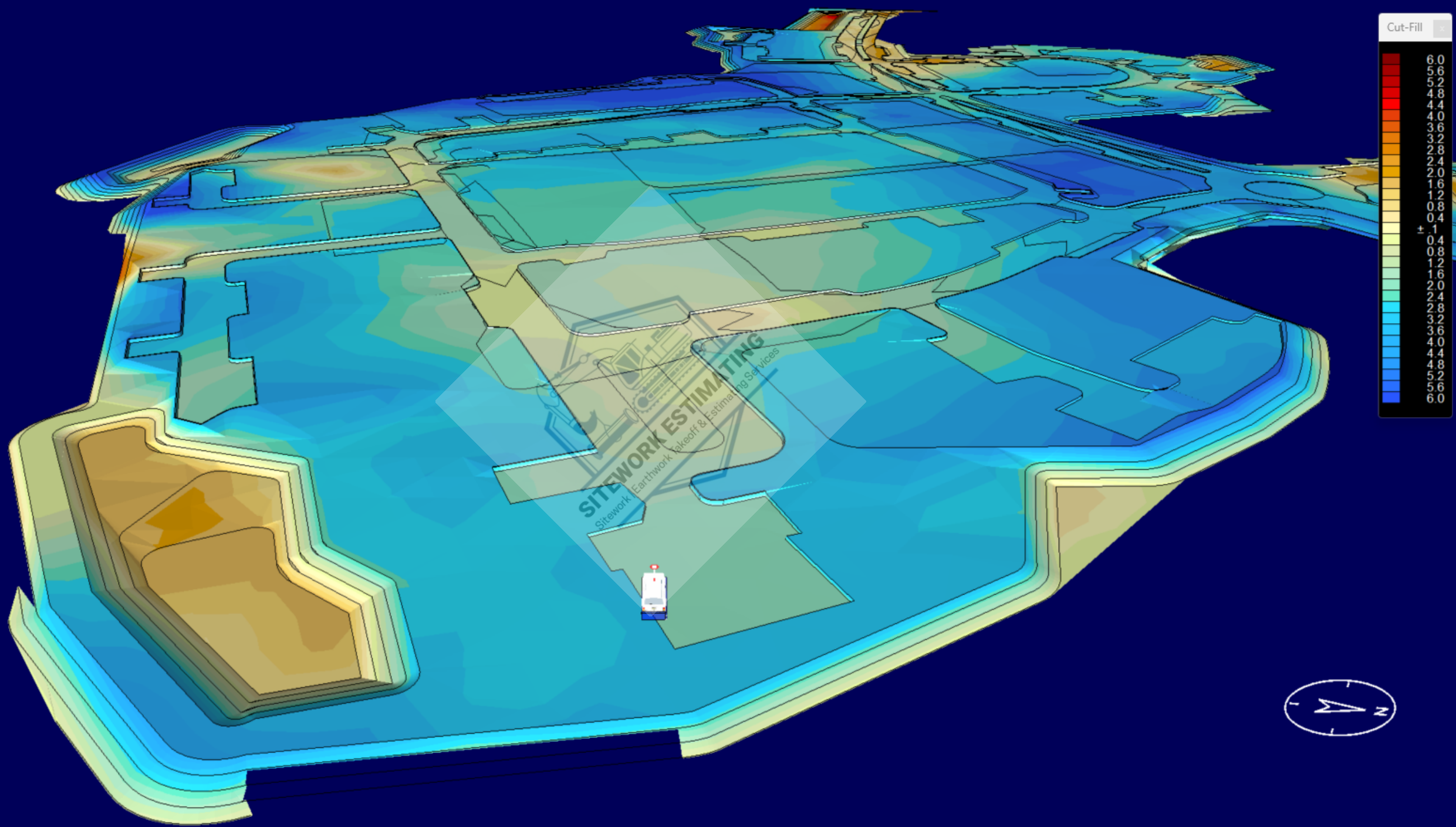
Name	Group	Type	Code	Total Area	Cut Area	Fill Area	OnGrade Area	Cut Volume	Fill Volume	Cut Compaction Ratio	Fill Compaction Ratio	Cut Compacted	Fill Compacted	Export -Import	Per B.S.B
BID A (ELM STREET END OF NORTH NEIGHBORHOOD ROADWAY) Sub: BID A (ELM STREET END OF NORTH NEIGHBORHOOD ROADWAY)															
		Earthwork		320,971	56,408	257,841	6,722	2,527	32,726	1.00	1.00	2,527	32,726	-30,199	1,189
BID B (SOUTH NEIGHBORHOOD) Sub: BID B (SOUTH NEIGHBORHOOD)															
		Earthwork		1,559,631	168,995	874,621	16,275	9,301	101,175	1.00	1.00	9,301	101,175	-92,074	3,926
Regions Total:		Earthwork		1,880,602	225,343	1,132,262	22,997	11,628	133,901			11,628	133,901	-122,273	5,115
35 Sub: TS															
		Stripping		1,380,304	1,380,304	0.000		25,963							
Stripping Total		Stripping		1,380,304	1,380,304			25,963							

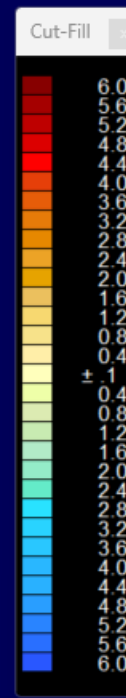
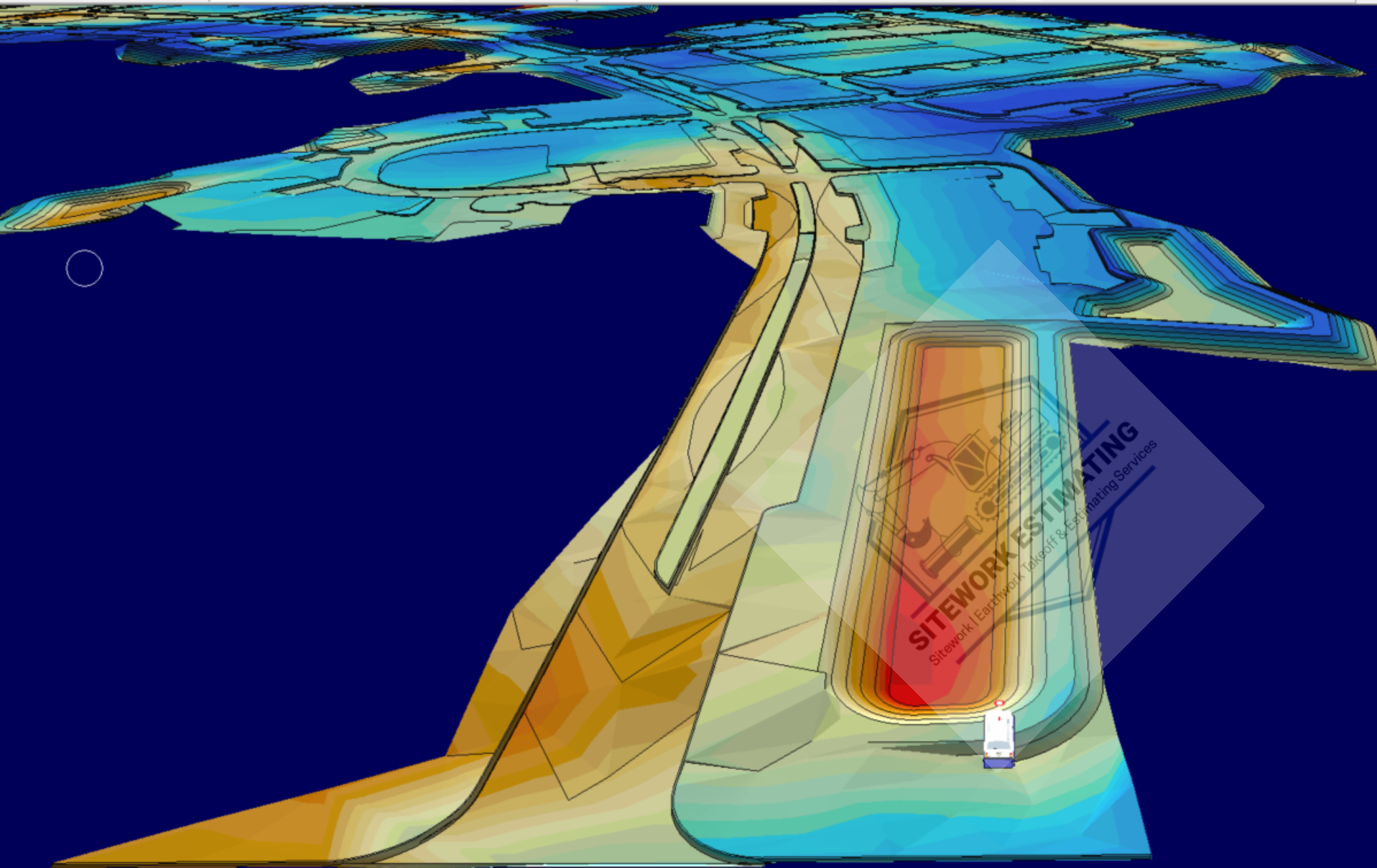


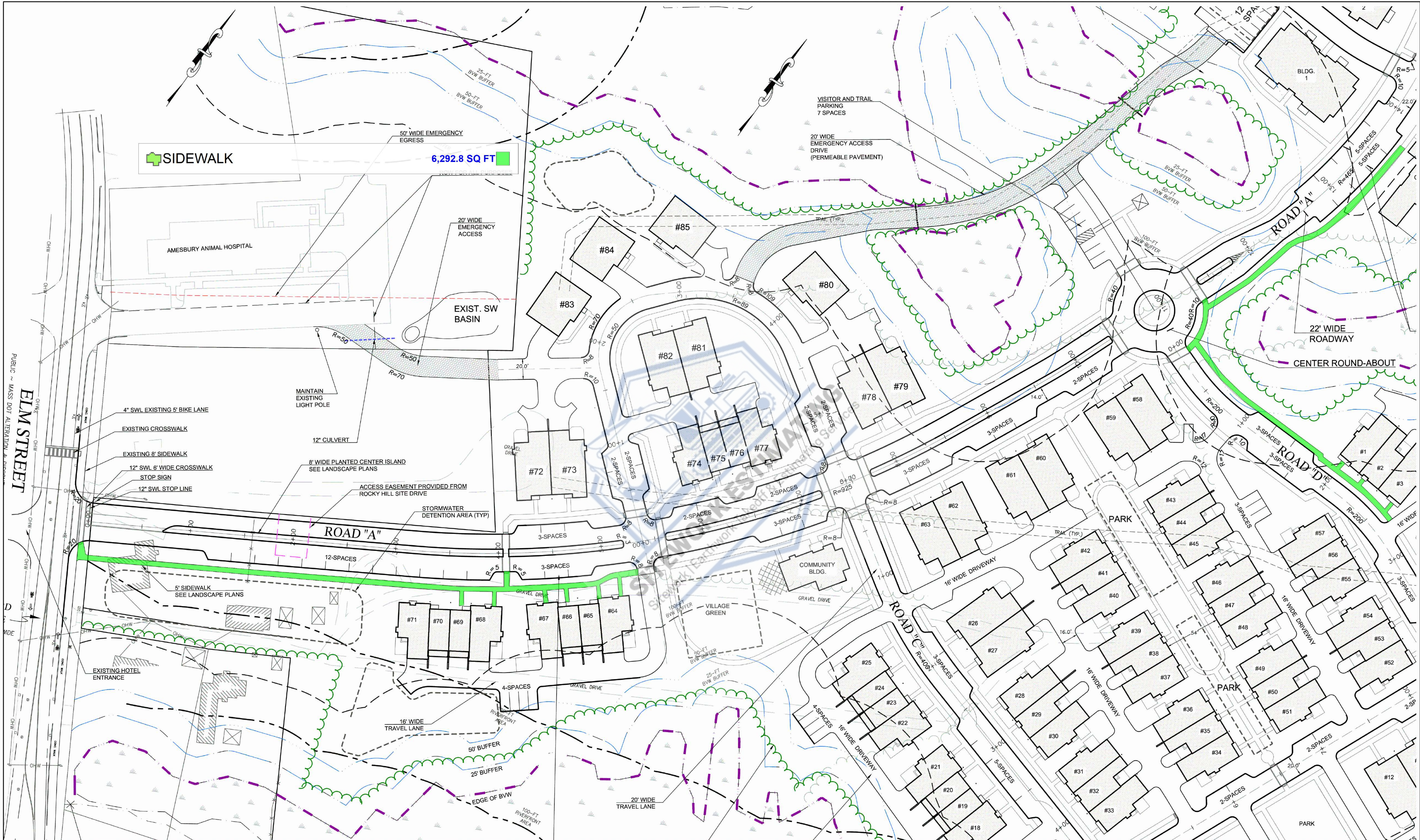




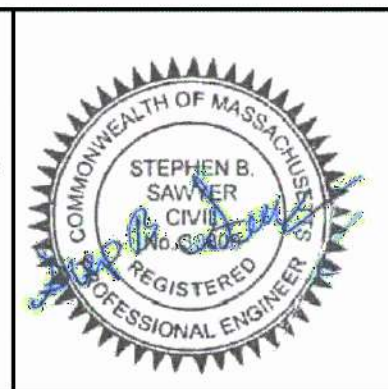
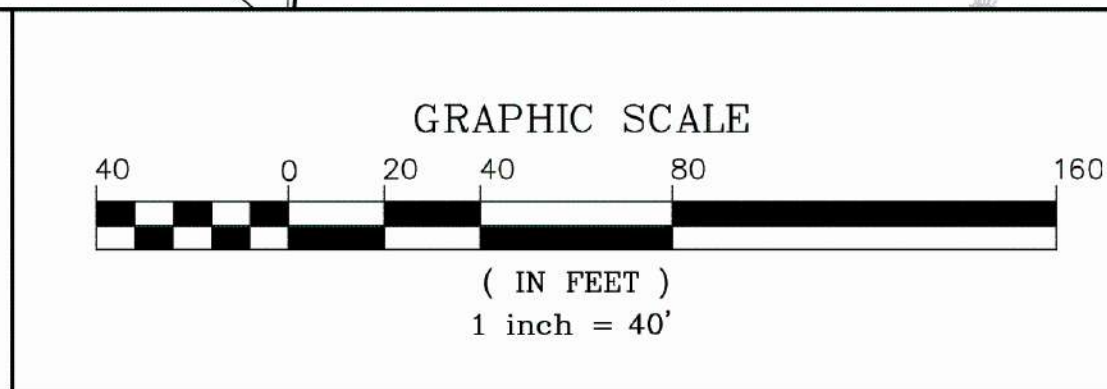
STEVENSON ESTIMATING
Surveying, Earthwork, Grading & Estimating Services







SOUTH NEIGHBORHOOD PARKING SUMMARY	
85 FOR SALE DWELLING UNITS	
159 GARAGED PARKING SPACES	
21 DRIVEWAY LANE PARKING SPACES	
31 SECONDARY ROAD PARKING SPACES	
33 MAIN BOULEVARD PARKING SPACES	



PREPARED FOR
DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH 03870

NO.	DATE	DESCRIPTION	BY

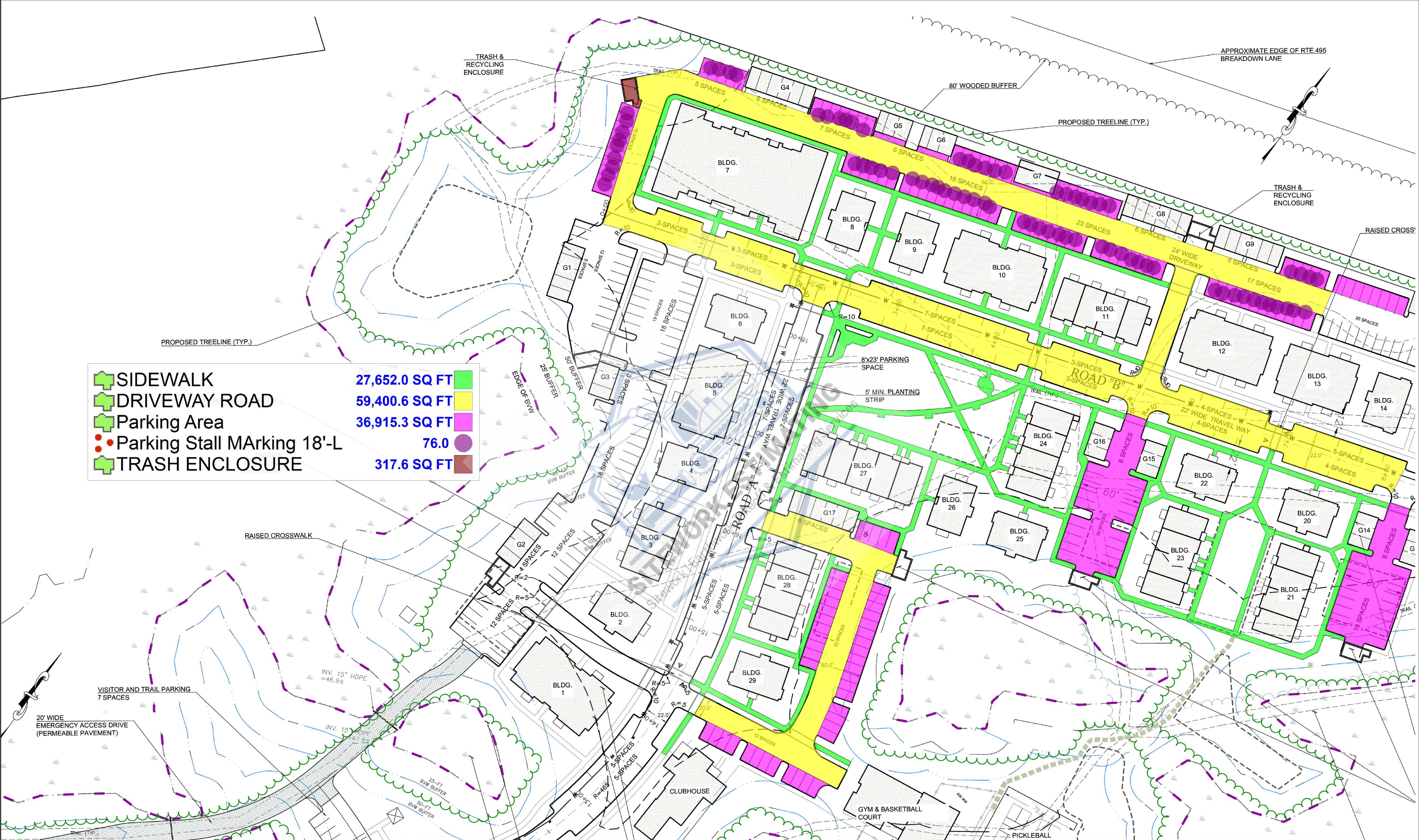


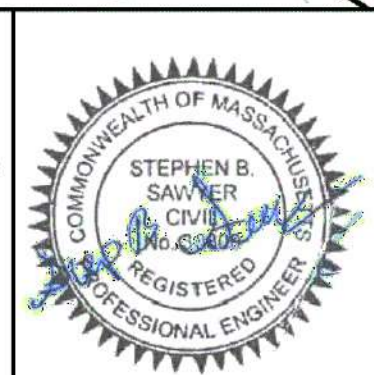
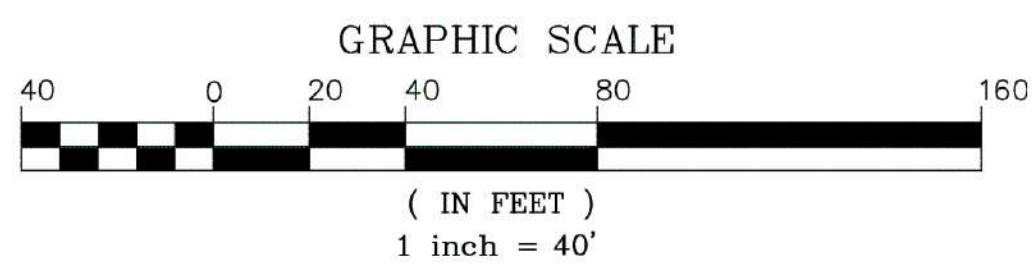
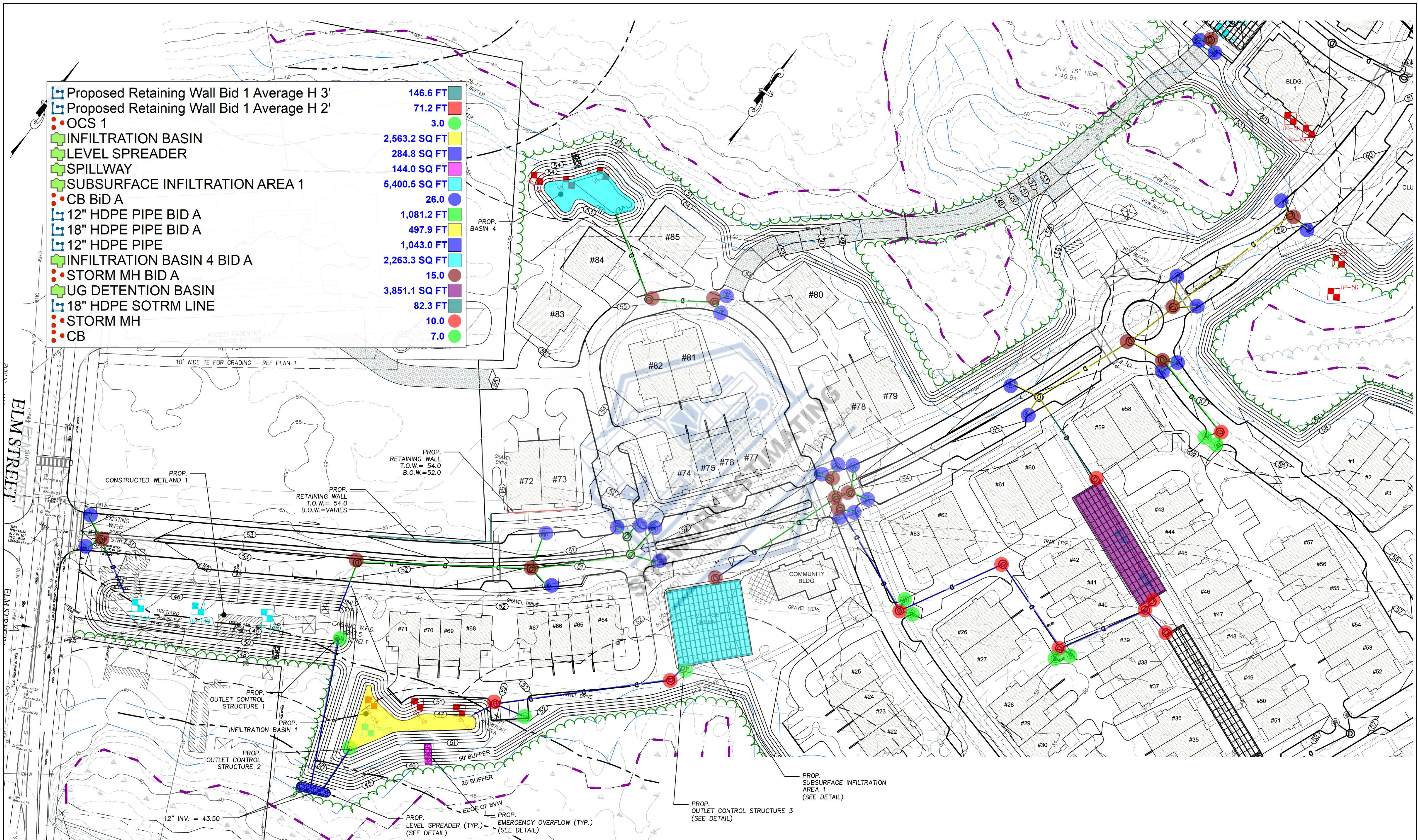
MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SAUSBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=40'	CALC. BY: J.T.M.	PROJECT: M244407
DATE: AUG. 11, 2025	CHKD. BY: S.B.S.	

ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

SITE LAYOUT PLAN-1
SHEET: C5.0





PREPARED FOR

DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH 03870

NO.	DATE	DESCRIPTION	BY

MEI **MILLENNIUM ENGINEERING, INC.**
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

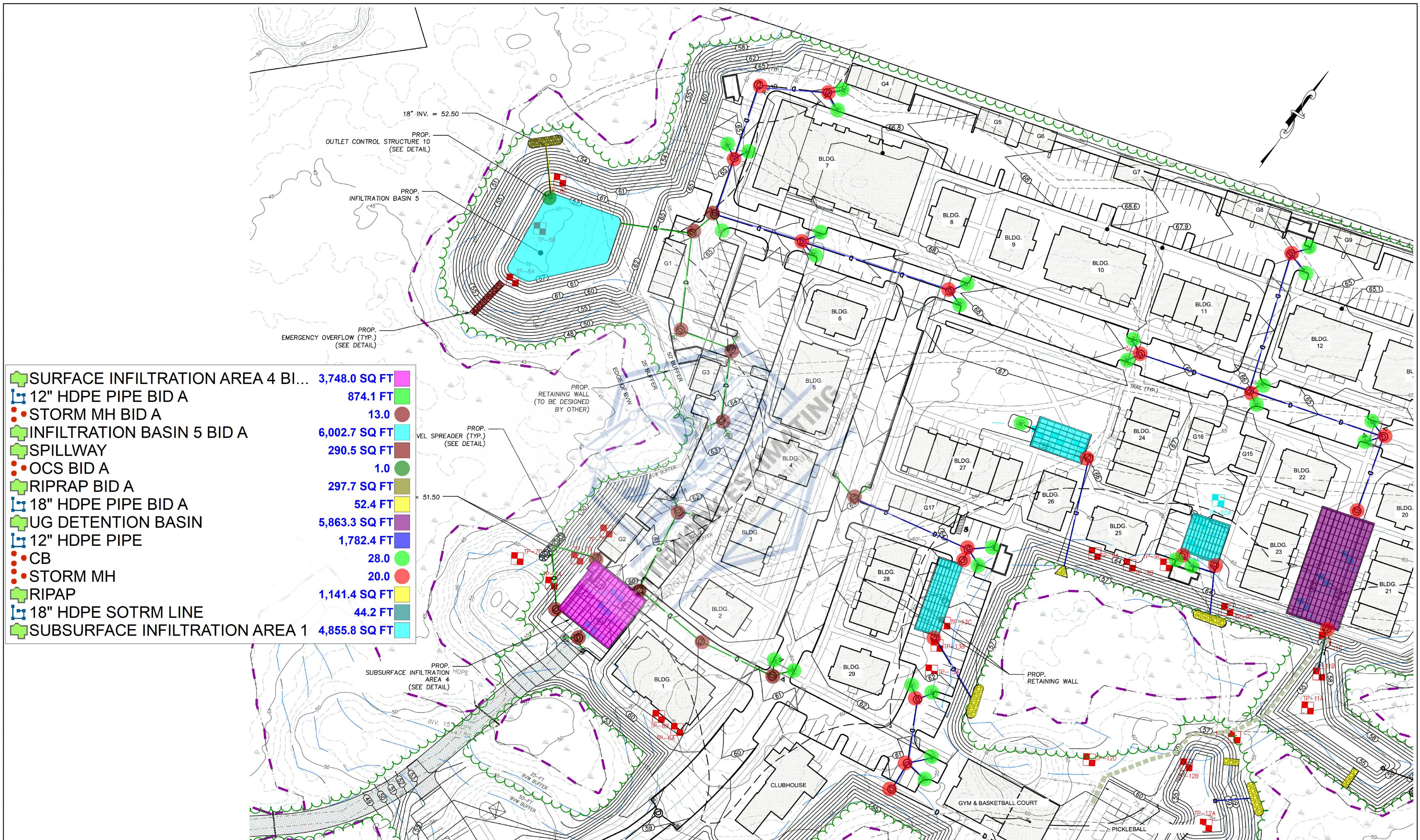
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05/30/25

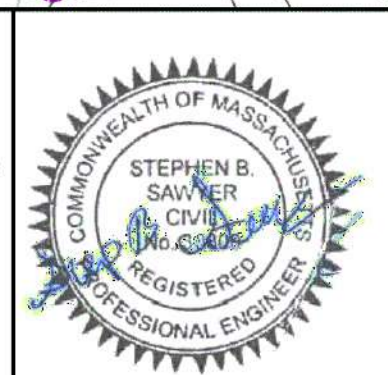
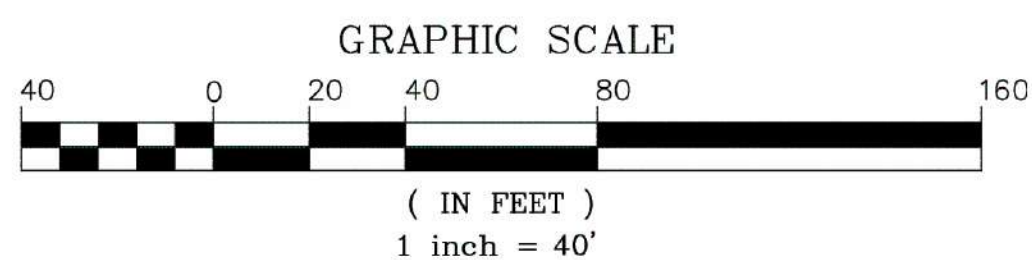
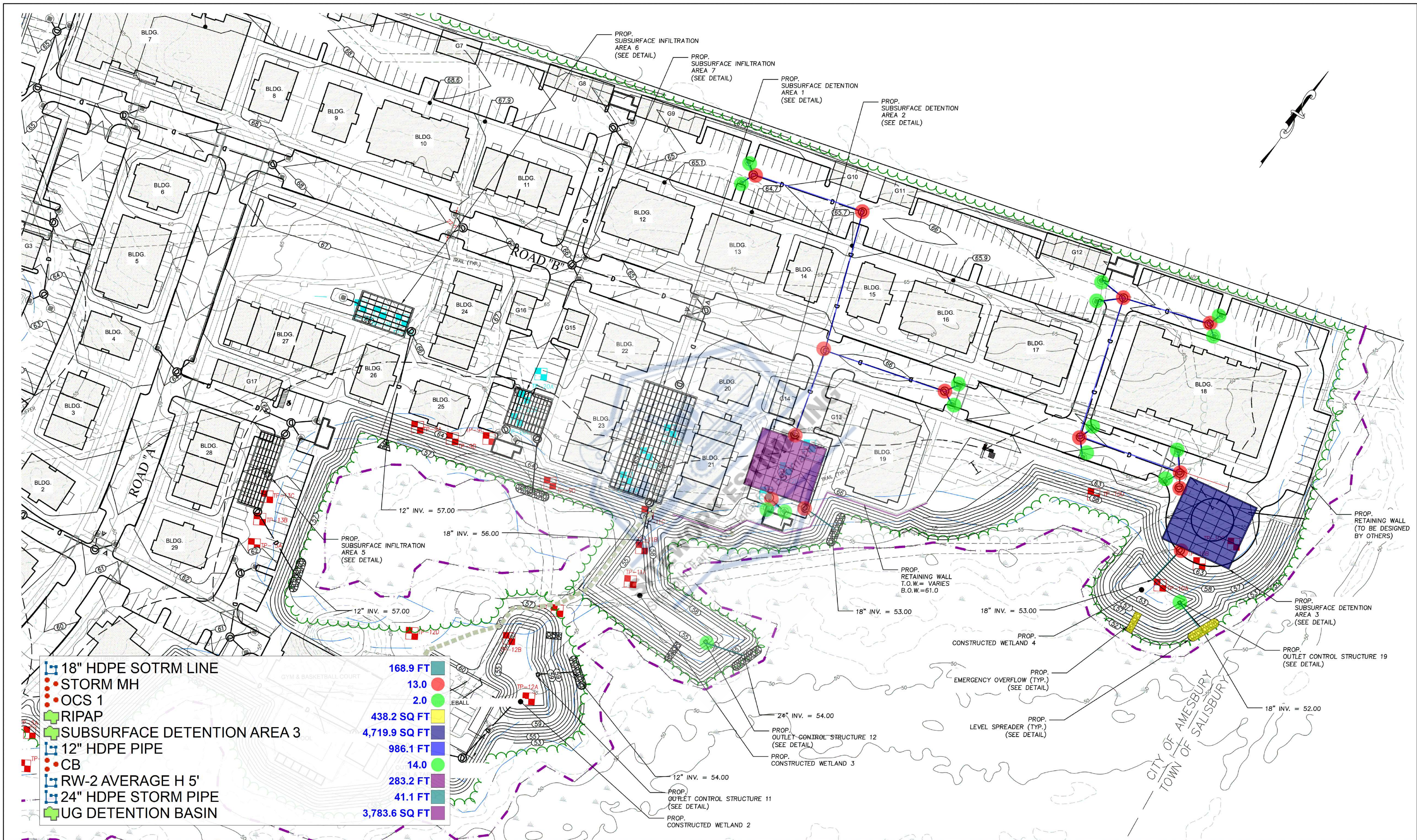
DATE: AUG. 11, 2025	CALC. BY: J.T.M.	PROJECT: M244407
CHKD. BY: S.B.S.		

ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

GRADING & DRAINAGE

SHEET: C-6.0





PREPARED FOR

DALE DEVELOPMENT, LLC

360 WASHINGTON STREET
RYE, NH 03870

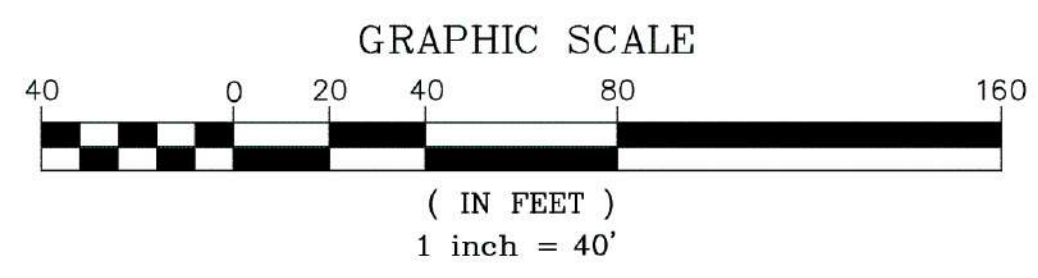
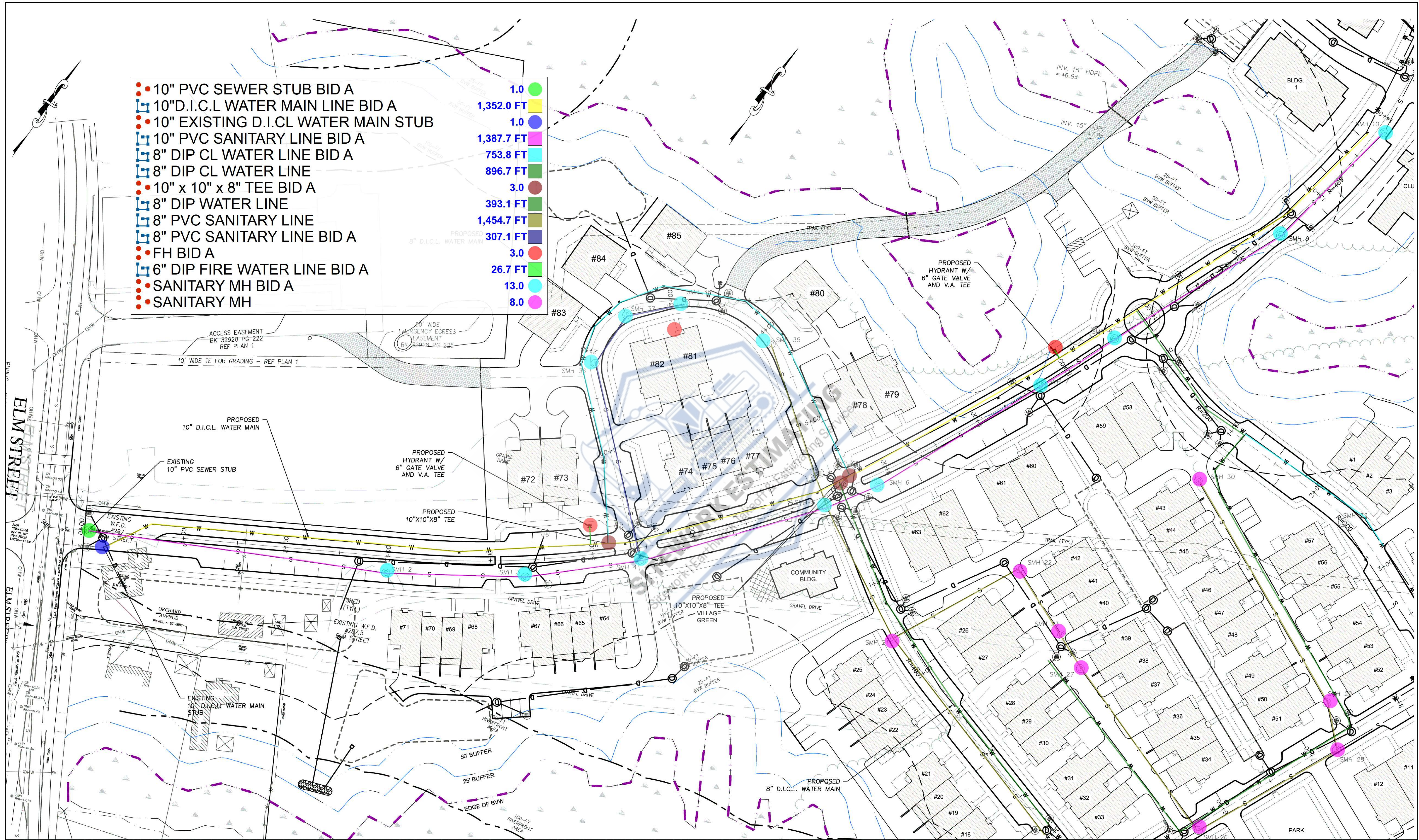
NO.	DATE	DESCRIPTION	BY

MEI MILLENNIUM ENGINEERING, INC. ENGINEERING AND LAND SURVEYING 62 ELM ST. SALISBURY, MA 01952 (978) 463-8980 13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528		
SCALE: 1"=40'	CALC. BY: J.T.M.	PROJECT: M244407
DATE: AUG. 11, 2025	CHKD. BY: S.B.S.	

ROCKY HILL MBTA COMMUNITY IN AMESBURY, MA AT ELM STREET	GRADING & DRAINAGE SHEET: C-6.3
--	---

- 10" PVC SEWER STUB BID A
- 10"D.I.C.L WATER MAIN LINE BID A
- 10" EXISTING D.I.CL WATER MAIN STUB
- 10" PVC SANITARY LINE BID A
- 8" DIP CL WATER LINE BID A
- 8" DIP CL WATER LINE
- 10" x 10" x 8" TEE BID A
- 8" DIP WATER LINE
- 8" PVC SANITARY LINE
- 8" PVC SANITARY LINE BID A
- FH BID A
- 6" DIP FIRE WATER LINE BID A
- SANITARY MH BID A
- SANITARY MH

- 1.0
- 1,352.0 FT
- 1.0
- 1,387.7 FT
- 753.8 FT
- 896.7 FT
- 3.0
- 393.1 FT
- 1,454.7 FT
- 307.1 FT
- 3.0
- 26.7 FT
- 13.0
- 8.0



PREPARED FOR
DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH 03870

NO.	DATE	DESCRIPTION	BY

MEI **MILLENNIUM ENGINEERING, INC.**
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

05/22/25
05/30/25

DATE: AUG. 11, 2025
CALC. BY: J.T.M.
CHKD. BY: S.B.S.
PROJECT: M244407

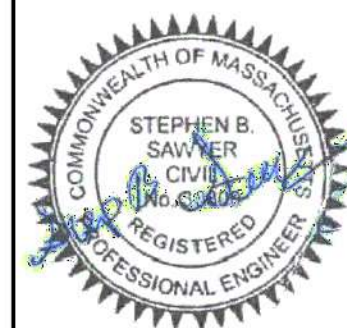
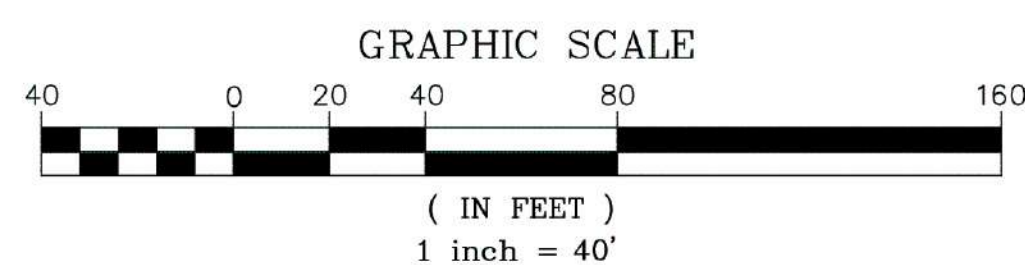
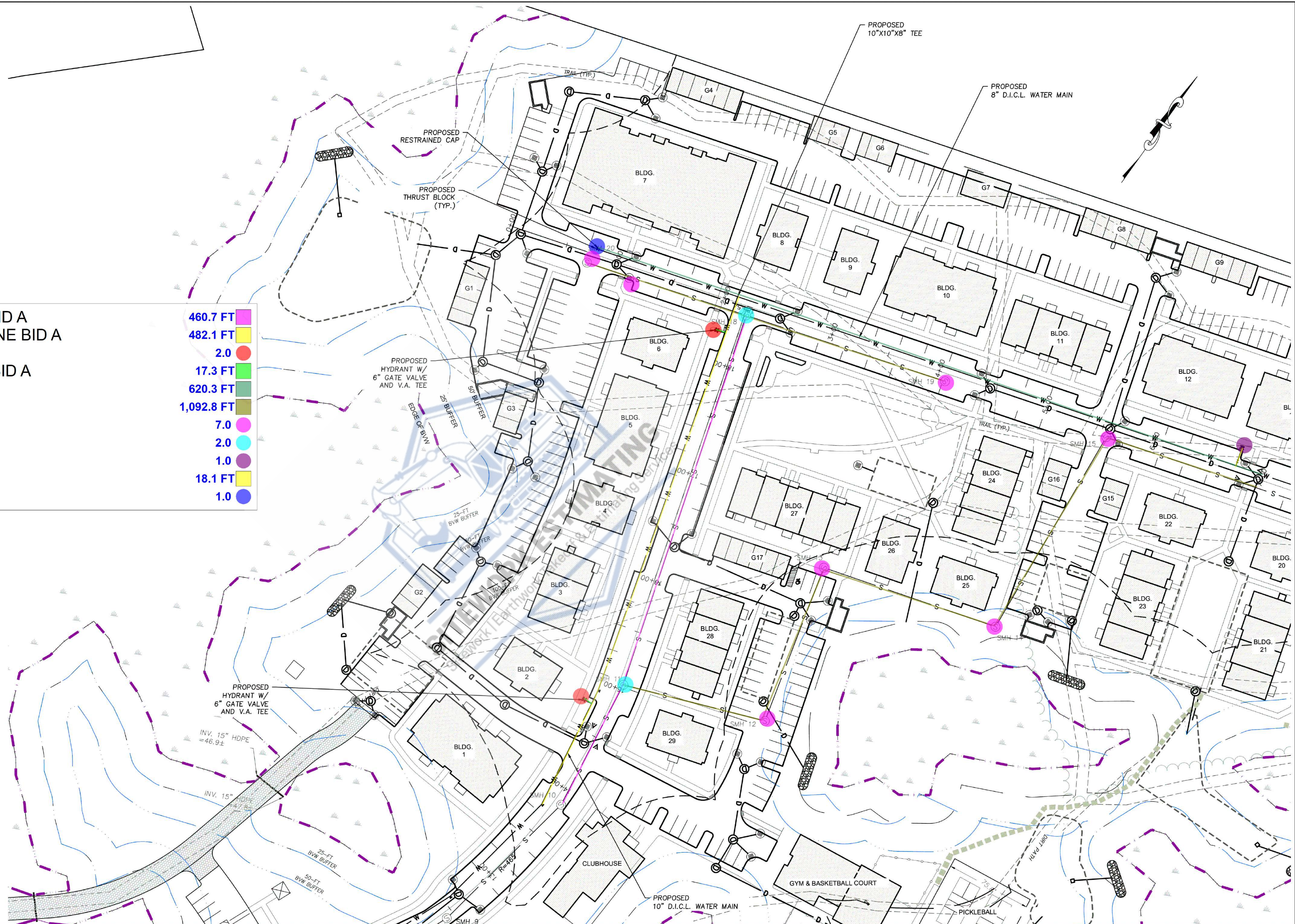
ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

SITE UTILITIES

SHEET: C-7.0

- 10" PVC SANITARY LINE BID A
- 10"D.I.C.L WATER MAIN LINE BID A
- FH BID A
- 6" DIP FIRE WATER LINE BID A
- 8" DIP CL WATER LINE
- 8" PVC SANITARY LINE
- SANITARY MH
- SANITARY MH BID A
- FH
- 6" FIRE WATER LINE
- RESTRAINED CAP

- 460.7 FT
- 482.1 FT
- 2.0
- 17.3 FT
- 620.3 FT
- 1,092.8 FT
- 7.0
- 2.0
- 1.0
- 18.1 FT
- 1.0



PREPARED FOR
DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH 03870

NO.	DATE	DESCRIPTION	BY



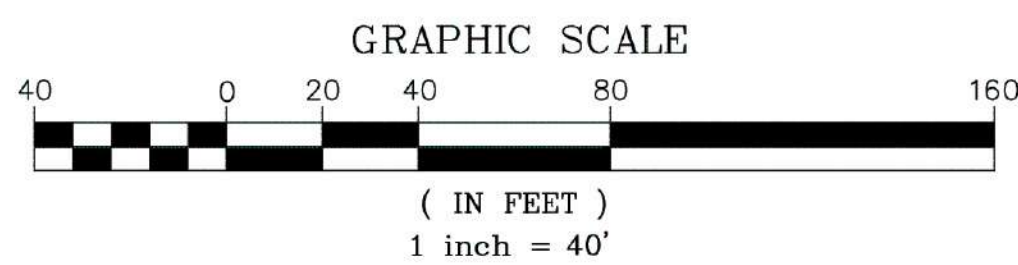
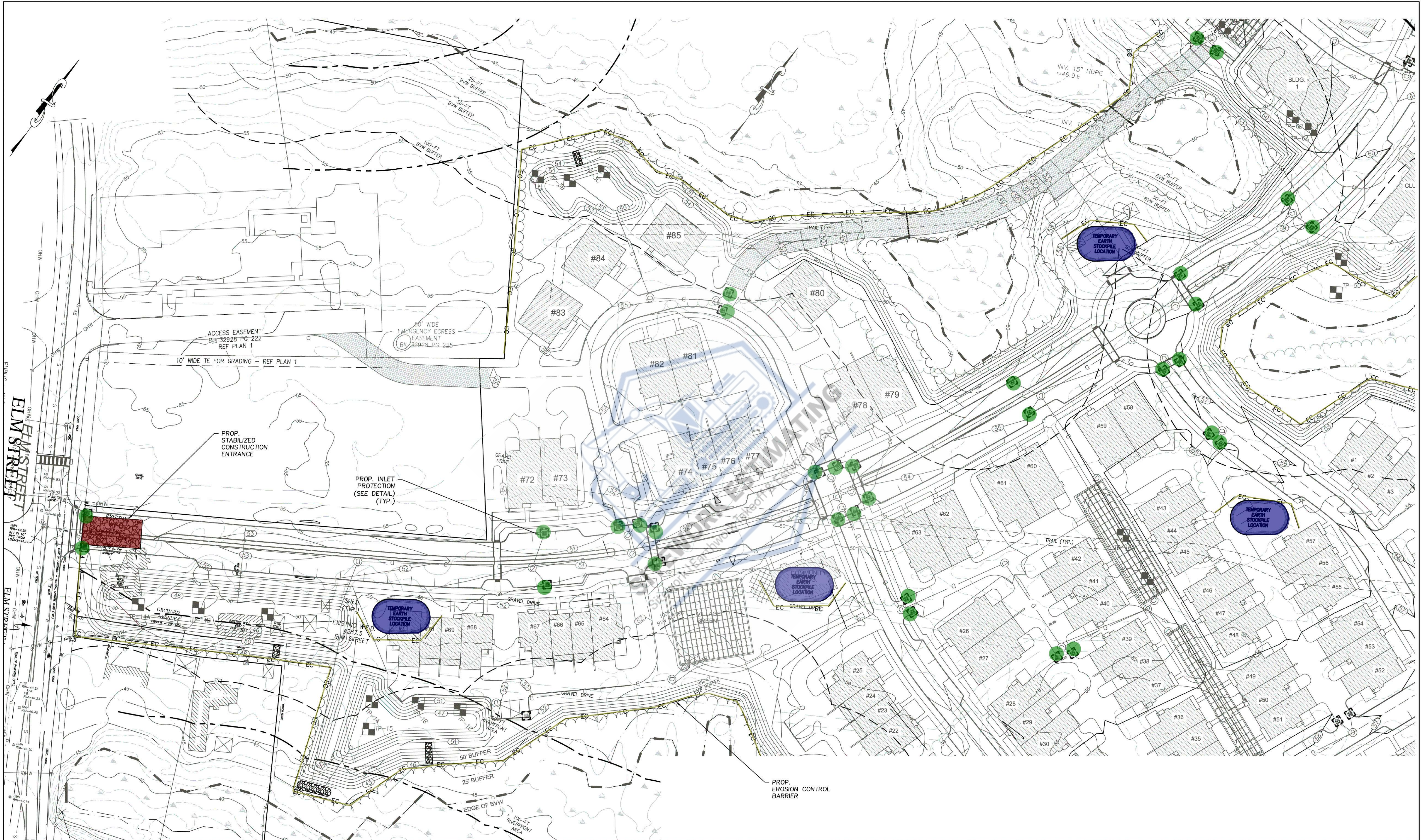
MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALESBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=40'	CALC. BY: J.T.M.	PROJECT: M244407
DATE: AUG. 11, 2025	CHKD. BY: S.B.S.	

ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

SITE UTILITIES

SHEET: C-7.2



PREPARED FOR

DALE DEVELOPMENT, LLC
360 WASHINGTON STREET
RYE, NH 03870

NO.	DATE	DESCRIPTION	BY

MEI **MILLENNIUM ENGINEERING, INC.**
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

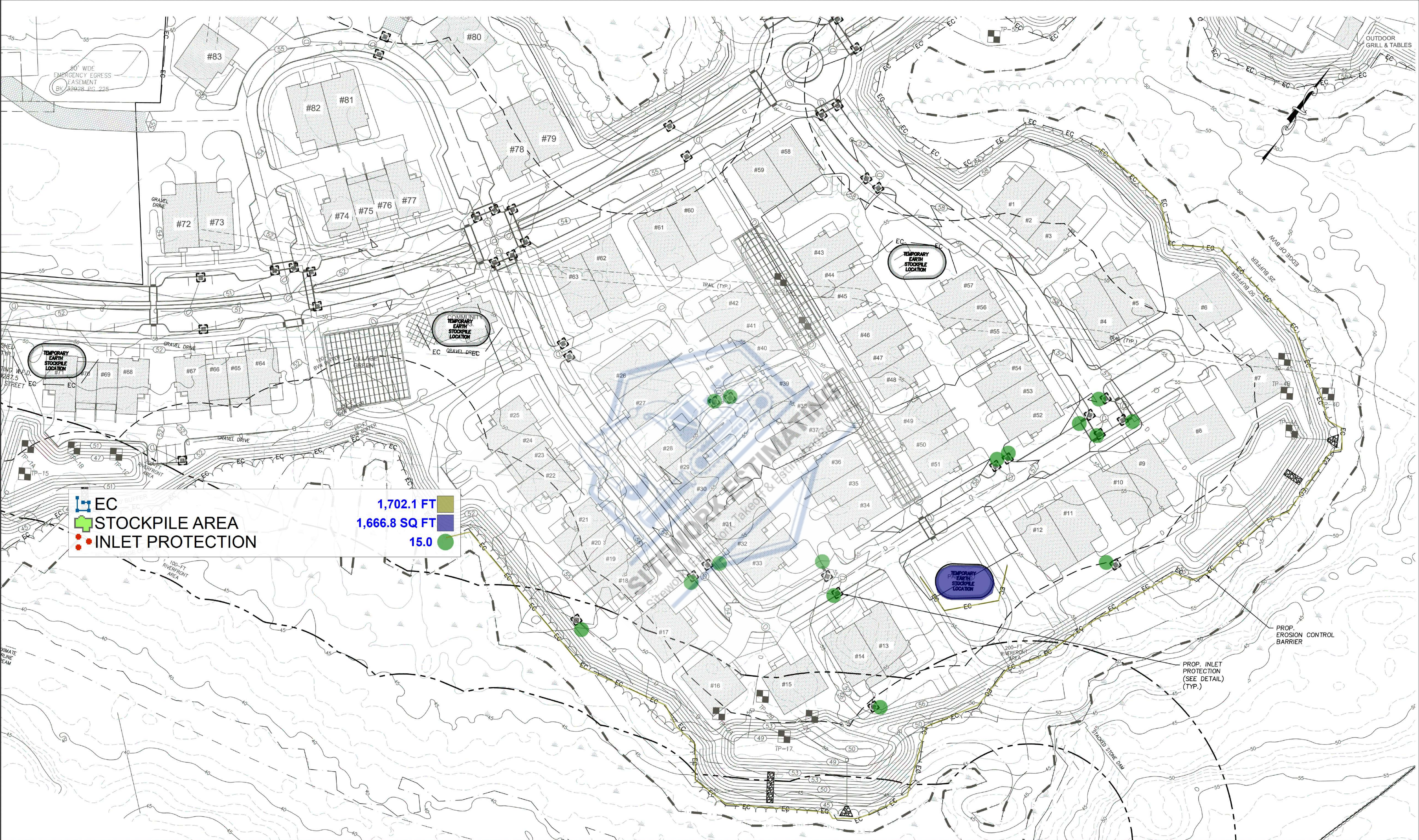
05/22/25
05/30/25

DATE: AUG. 11, 2025	CALC. BY: J.T.M.	PROJECT: M244407
	CHKD. BY: S.B.S.	

ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

EROSION & SEDIMENTATION CONTROL PLAN

SHEET: C-9.0



GRAPHIC SCALE

40

0

20

40

80

160

(IN FEET)

1 inch = 40'

PREPARED FOR

DALE DEVELOPMENT, LLC

360 WASHINGTON STREET

RYE, NH 03870

SOUTH NEIGHBORHOOD

05/22/25

05/30/25

NO. DATE DESCRIPTION BY

DATE: AUG. 11, 2025

CHKD. BY: S.B.S.

PROJECT: M244407

MILLENNIUM ENGINEERING, INC.

ENGINEERING AND LAND SURVEYING

62 ELM ST. SAUSBURY, MA 01952 (978) 463-8980

13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

ROCKY HILL MBTA COMMUNITY

IN

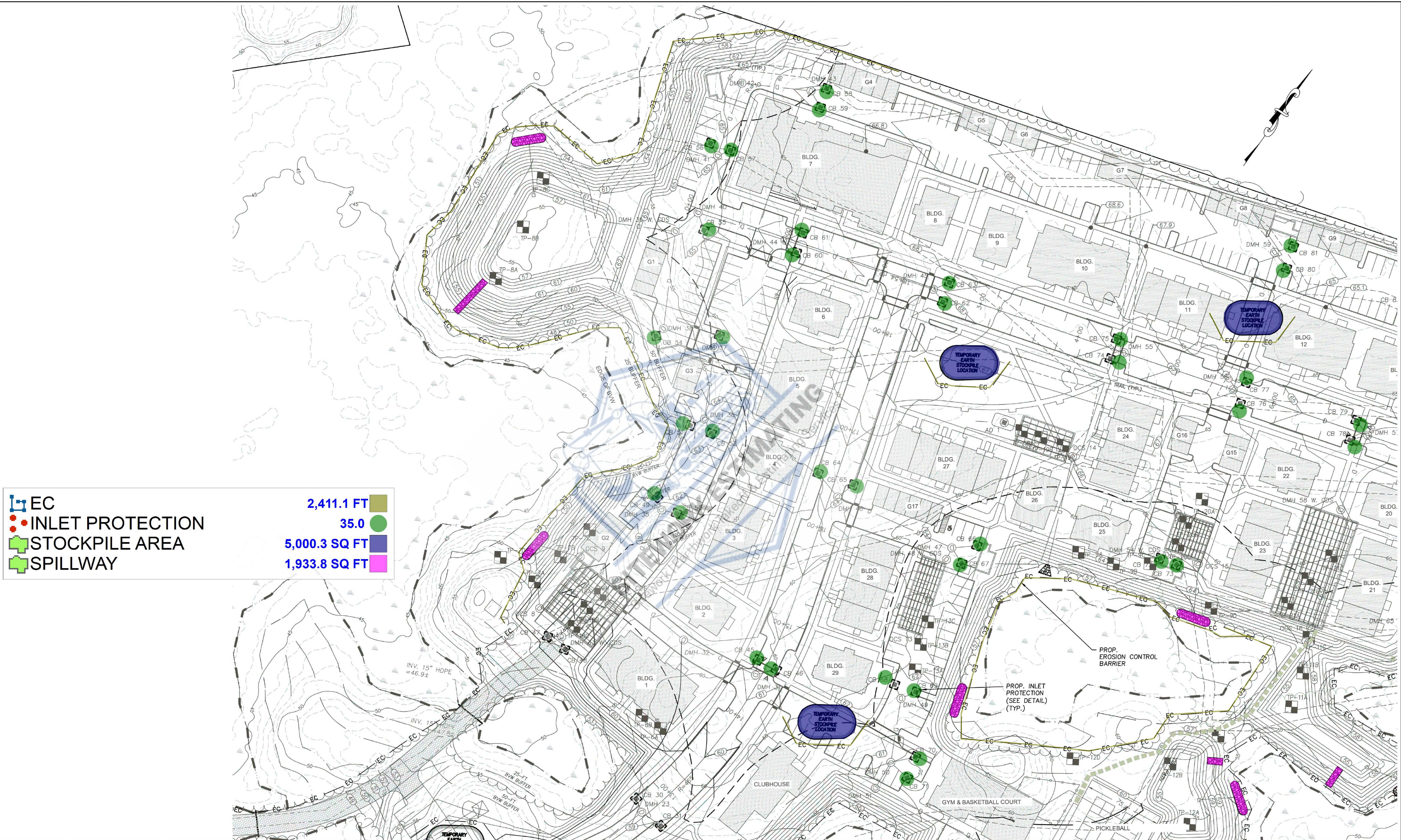
AMESBURY, MA

AT

ELM STREET

EROSION & SEDIMENTATION CONTROL PLAN

SHEET: C-9.1



EC

INLET PROTECTION

STOCKPILE AREA

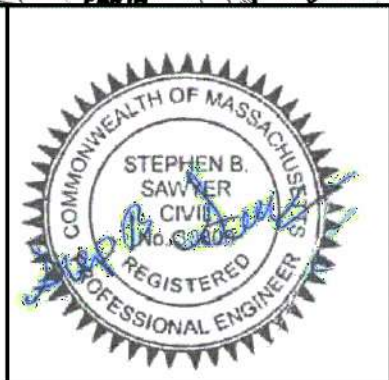
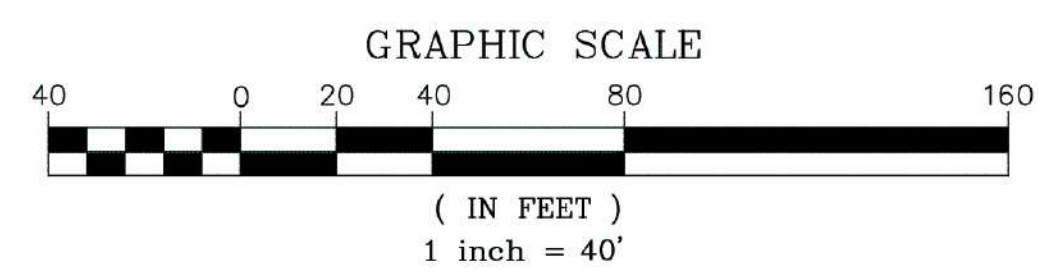
SPILLWAY

2,411.1 FT

35.0

5,000.3 SQ FT

1,933.8 SQ FT



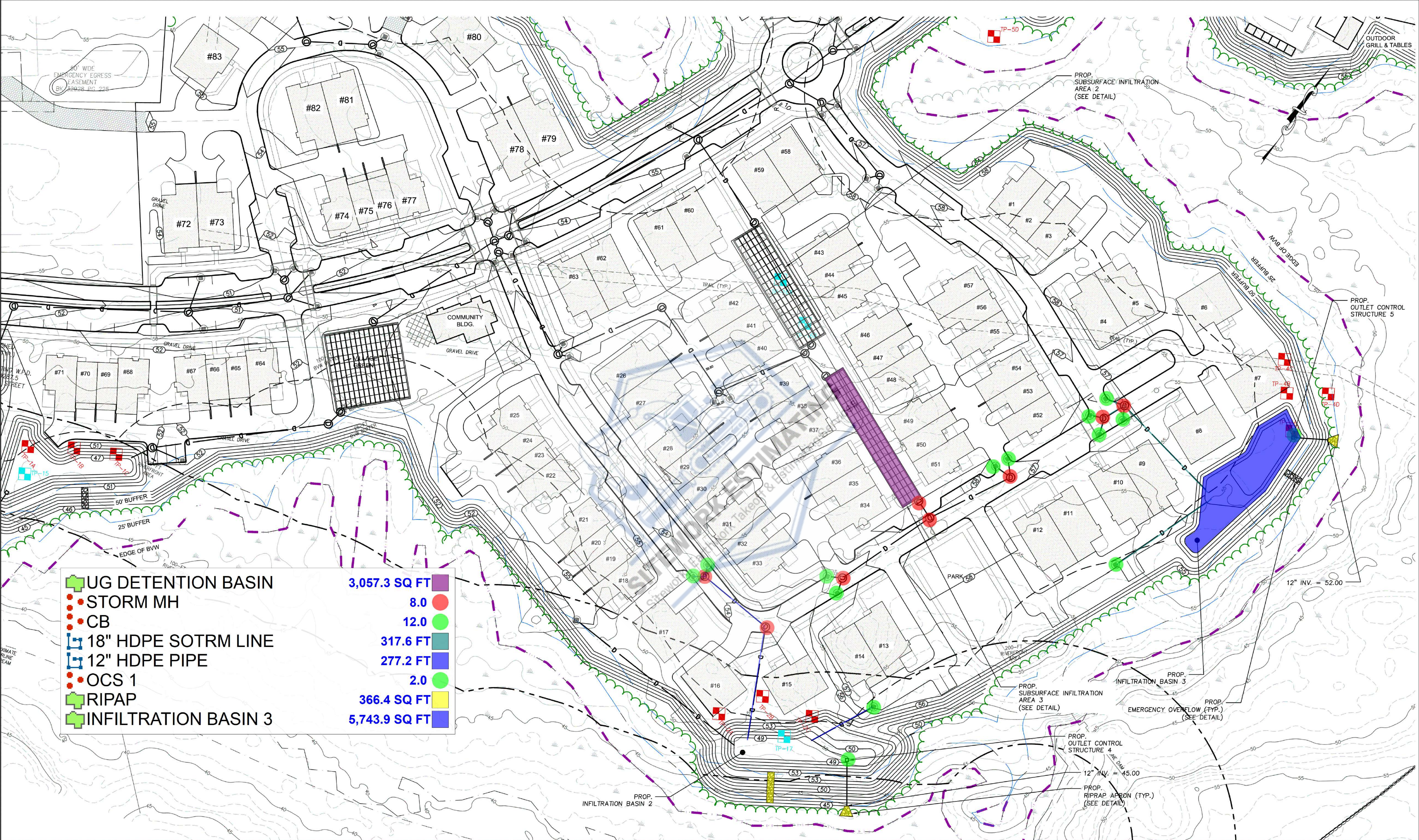
PREPARED FOR			
DALE DEVELOPMENT, LLC			
360 WASHINGTON STREET			
RYE, NH 03870			
NO.	DATE	DESCRIPTION	BY

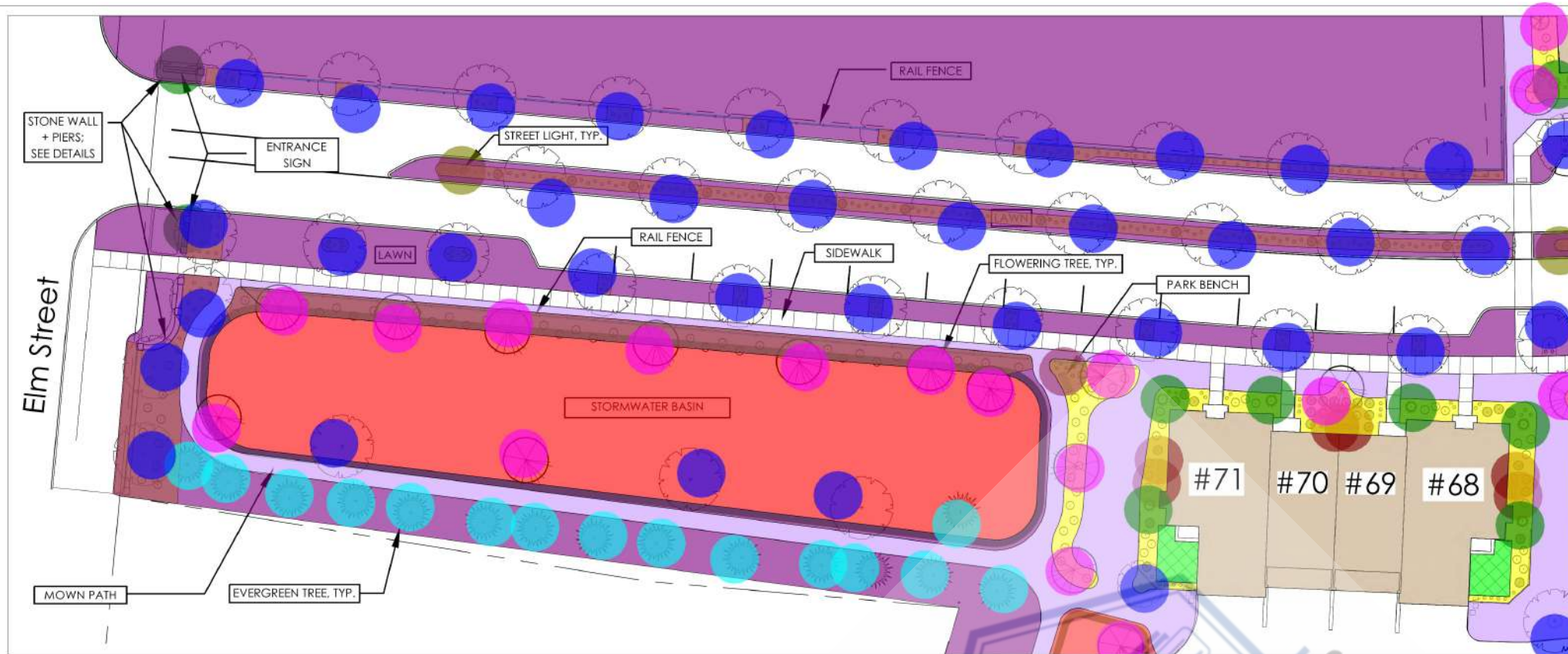
MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALESBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=40'	CALC. BY: J.T.M.	PROJECT: M244407
DATE: AUG. 11, 2025	CHKD. BY: S.B.S.	

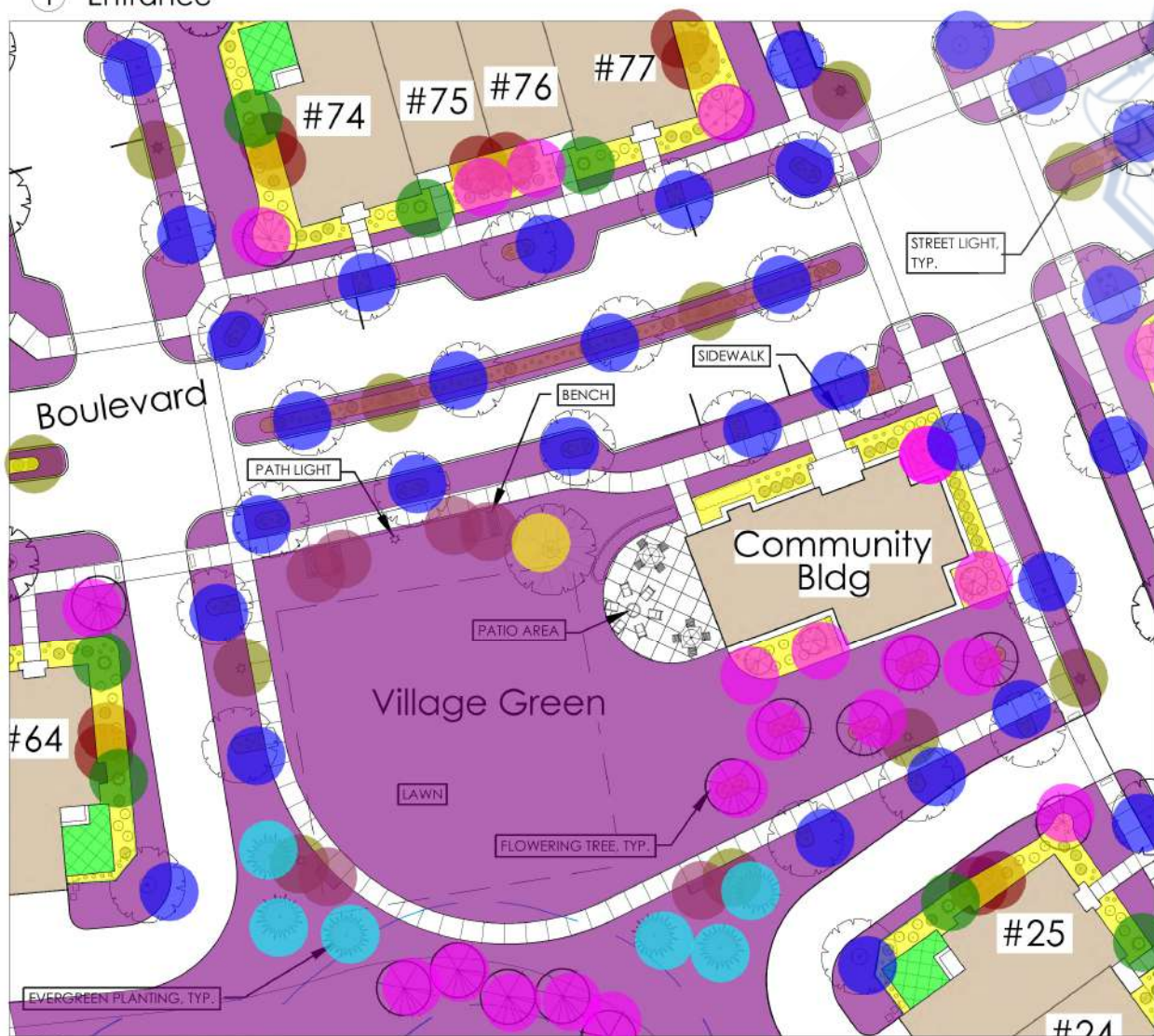
ROCKY HILL MBTA COMMUNITY
IN
AMESBURY, MA
AT
ELM STREET

EROSION & SEDIMENTATION
CONTROL
PLAN
SHEET: C-9.2

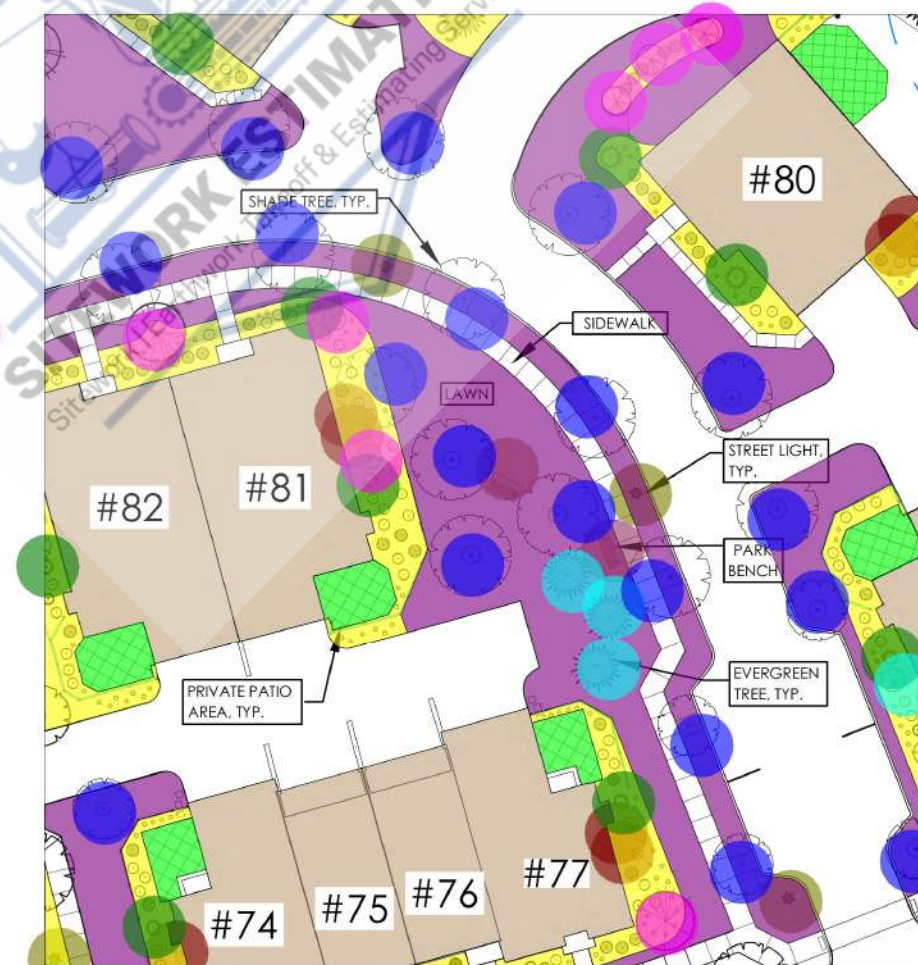




1 Entrance



2 Village Green _ South

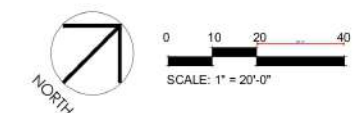


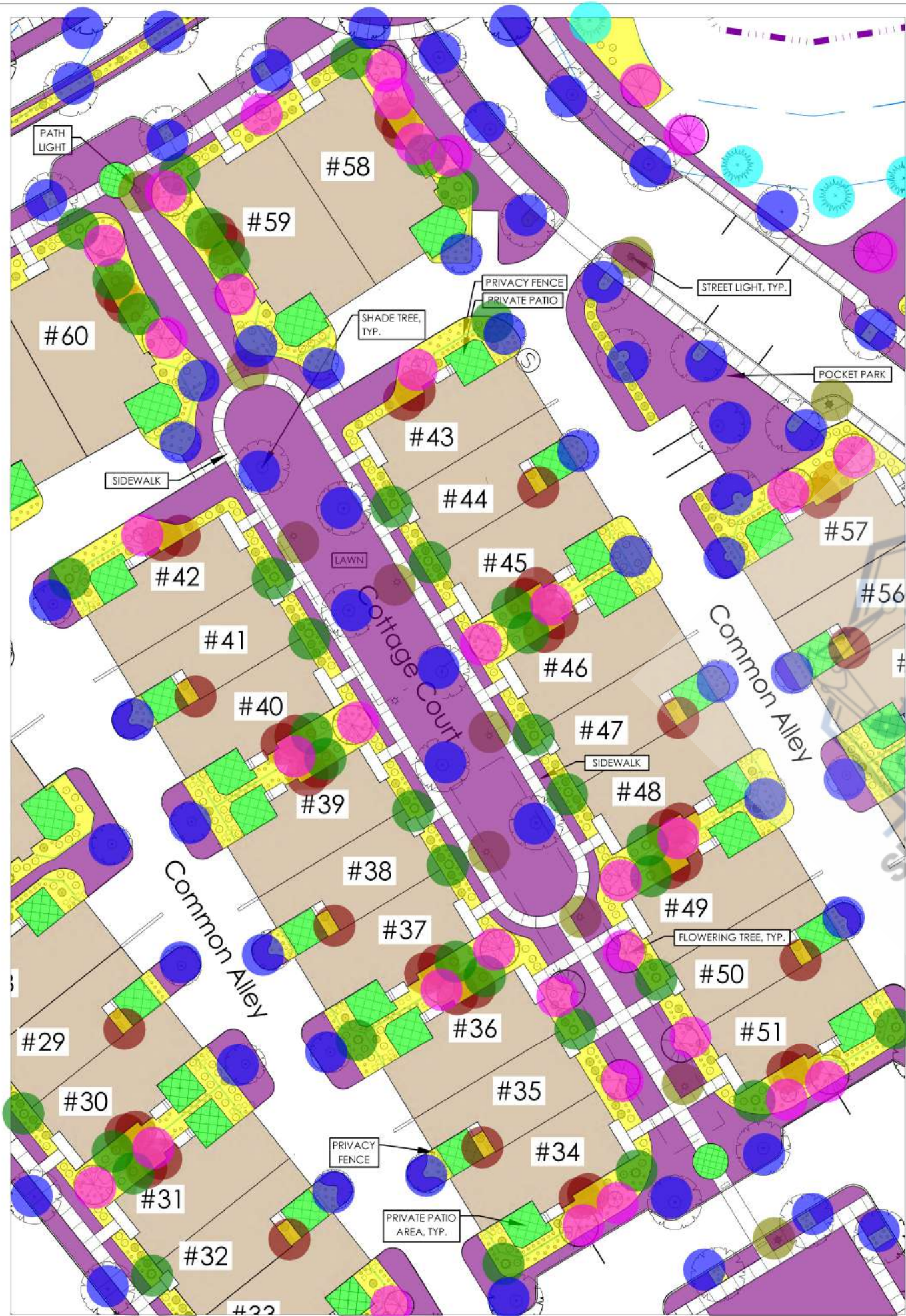
3 Pocket Park

- Specimen Tree 1.0 EA
- Shade Tree 52.0 EA
- Shade Tree 38.0 EA
- Flowering/ Under Story Tree 29.0 EA
- Flowering/ Under Story Tree 17.0 EA
- Evergreen Tree 10.0 EA
- Evergreen Tree 15.0 EA
- Columnar Evergreen 16.0 EA
- Columnar Evergreen 7.0 EA
- Park Bench 8.0 EA
- Park Bench 1.0 EA
- Mown Path 6392.3 SQ FT
- Green Area Lawn + Mulching Assumed 39603.4 SQ FT
- Green Area Lawn + Mulching Assumed 27799.9 SQ FT
- Stormwater Basin 11075.2 SQ FT
- Shrubs & Perennials 9033.1 SQ FT
- Shrubs & Perennials 7024.0 SQ FT
- Rail Fence 275.0 FT
- Rail Fence 653.9 FT
- AC Heat Pump Condenser 17.0 EA
- AC Heat Pump Condenser 6.0 EA
- Entrance Sign Board 2.0 EA
- Site Lighting 15.0 EA
- Site Lighting 2.0 EA
- Specialty Paving 1735.1 SQ FT
- Specialty Paving 332.8 SQ FT

Legend

- SPECIMEN TREE
- SHADE TREE
- FLOWERING / UNDER-STORY TREE
- EVERGREEN TREE
- COLUMNAR EVERGREEN
- SHRUBS & PERENNIALS
- SPECIALTY PAVING
- FENCING
- PICNIC TABLE
- BENCH
- SITE LIGHTING
- AC / HEAT PUMP CONDENSERS





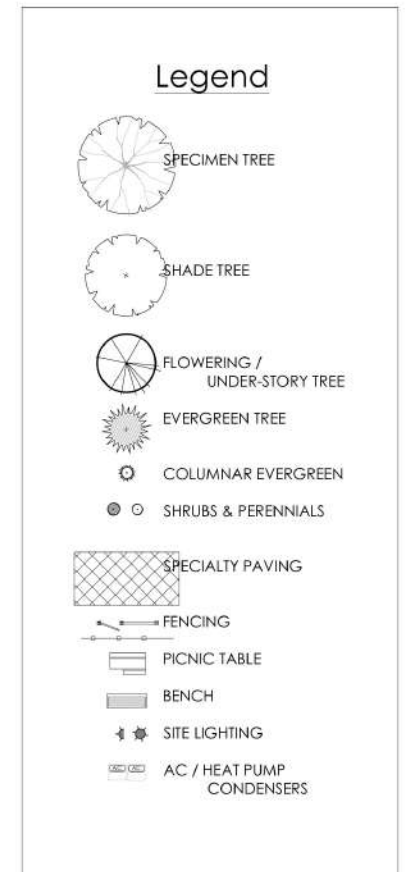
① Cottage Court



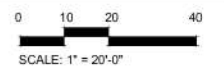
③ East Court



② South Green



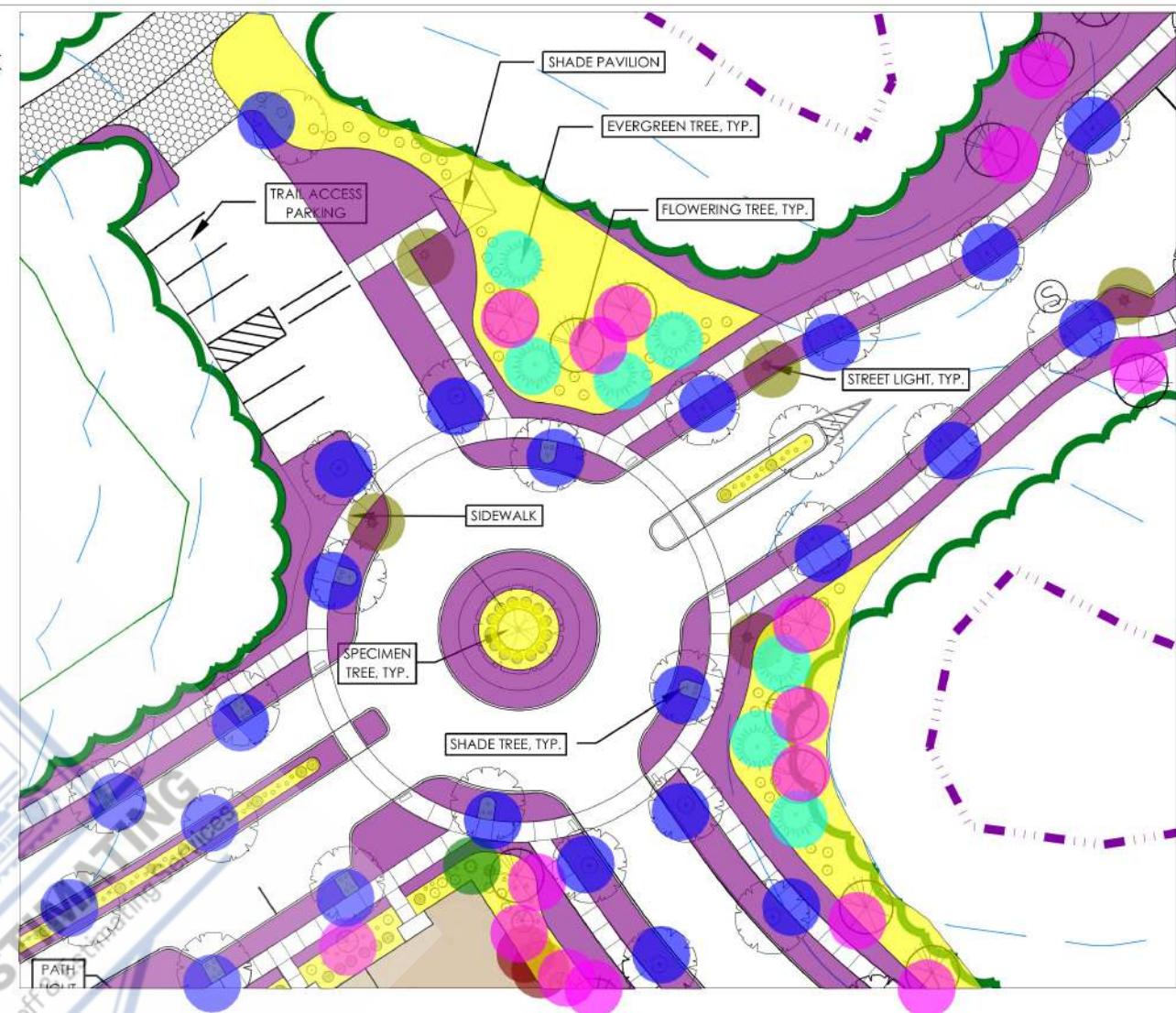
• Specimen Tree	1.0 EA
• Specimen Tree	1.0 EA
• Shade Tree	79.0 EA
• Flowering/ Under Story Tree	49.0 EA
• Flowering/ Under Story Tree	17.0 EA
• Evergreen Tree	10.0 EA
• Site Lighting	16.0 EA
• Site Lighting	2.0 EA
• Shrubs & Perennials	23353.0 SQ FT
• Shrubs & Perennials	5862.7 SQ FT
• Green Area Lawn + Mulching Assum...	41962.1 SQ FT
• Green Area Lawn + Mulching Assumed	9646.6 SQ FT
• Columnar Evergreen	45.0 EA
• Columnar Evergreen	10.0 EA
• Rail Fence	1006.2 FT
• Rail Fence	27.7 FT
• Specialty Paving	6204.0 SQ FT
• Specialty Paving	462.1 SQ FT
• AC Heat Pump Condenser	53.0 EA
• Picnic Table	2.0 EA
• Picnic Table	2.0 EA
• Shade Tree	14.0 EA



- Site Lighting
- Flowering/ Under Story Tree
- Columnar Evergreen
- Shade Tree
- AC Heat Pump Condenser
- Specialty Paving
- Shrubs & Perennials
- Speciman Tree
- Evergreen Tree
- Green Area Lawn + Mulching Assumed
- Dog Park

11.0 EA
58.0 EA
8.0 EA
47.0 EA
23.0 EA
112.7 SQ FT
18032.0 SQ FT
1.0 EA
7.0 EA
47309.7 SQ FT
1494.9 SQ FT

① Rotary Park



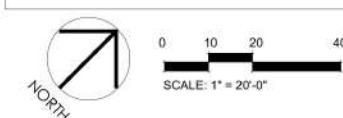
Neighborhood Key Plan



② North Neighborhood Amenity Area

Legend

- SPECIMEN TREE
- SHADE TREE
- FLOWERING / UNDER-STORY TREE
- EVERGREEN TREE
- COLUMNAR EVERGREEN
- SHRUBS & PERENNIALS
- SPECIALTY PAVING
- FENCING
- PICNIC TABLE
- BENCH
- SITE LIGHTING
- AC / HEAT PUMP CONDENSERS



ASSOCIATES
LANDSCAPE ARCHITECTURE AND PLANNING
144 Moody Street, Building 4
Waltham, MA 02453-5332
ph: 781 - 314 - 0401
www.ryan-assoc.com

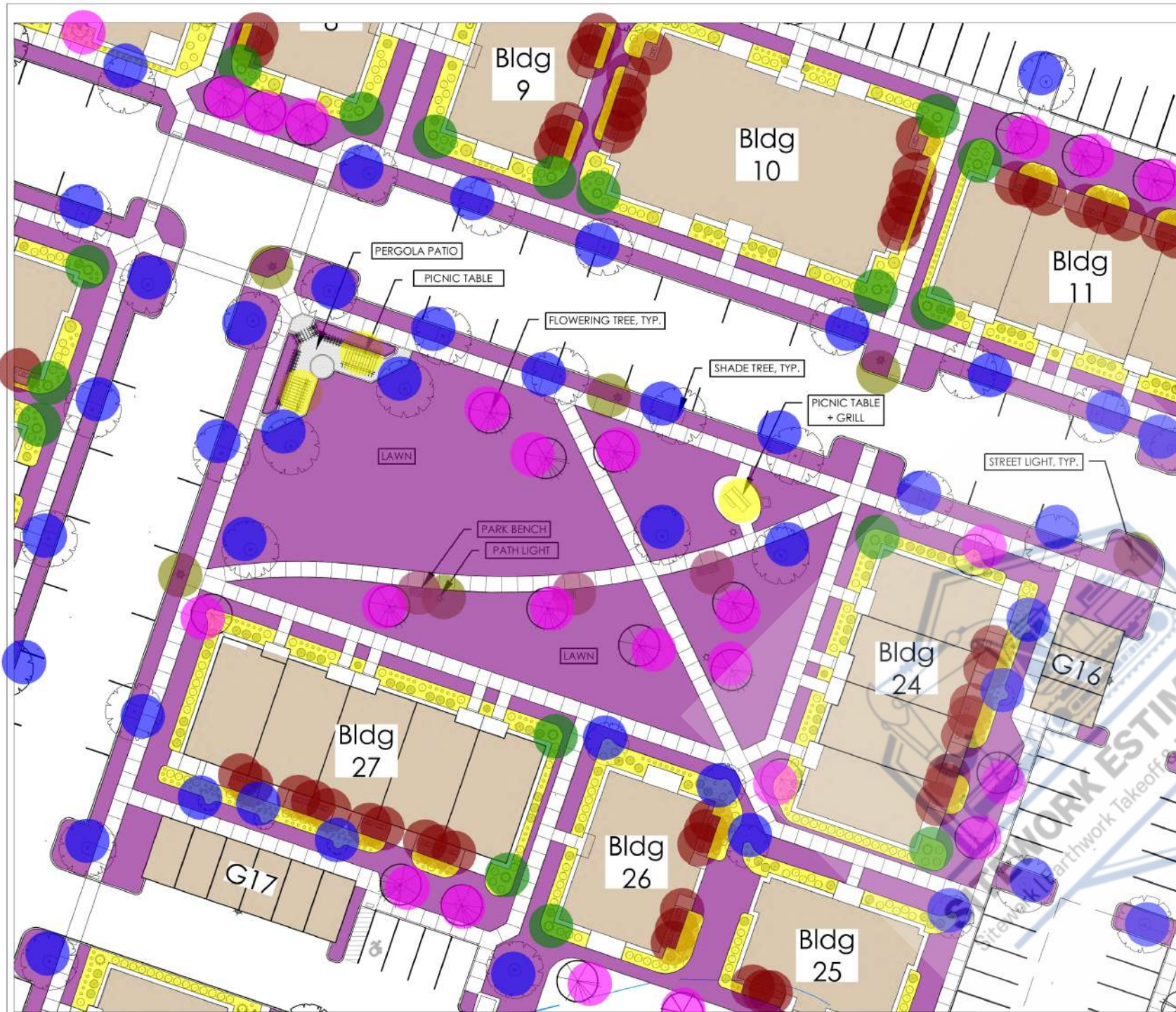
RYAN

Rocky Hill
Amesbury, MA

Landscape
Common Areas
-Enlargement C-

ISSUED
1 08.14.25 Site Plan Review Submission
2
3
4
5
6
7

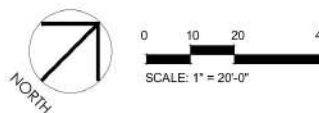
L 2_2



① Village Green - North

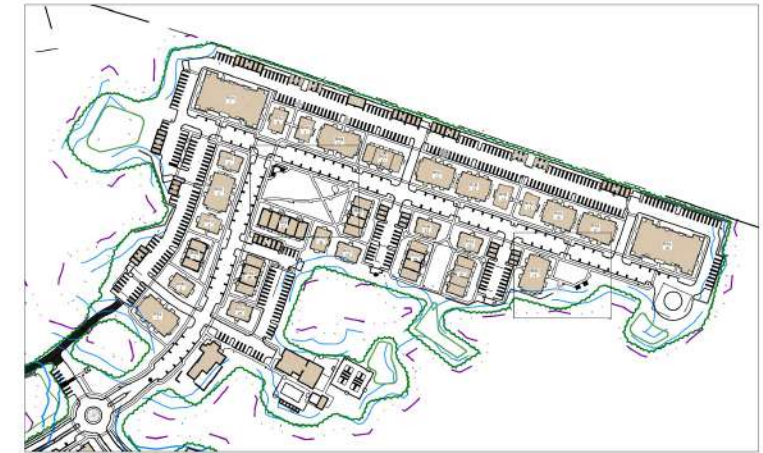
- Green Area Lawn + Mulching Assumed
- Shade Tree
- Speciman Tree
- Flowering/ Under Story Tree
- Site Lighting
- Columnar Evergreen
- AC Heat Pump Condenser
- Park Bench
- Picnic Table
- Picnic Table
- Shrubs & Perennials

- 55601.5 SQ FT
- 76.0 EA
- 1.0 EA
- 41.0 EA
- 9.0 EA
- 31.0 EA
- 118.0 EA
- 6.0 EA
- 5.0 EA
- 5.0 EA
- 18136.8 SQ FT



Legend

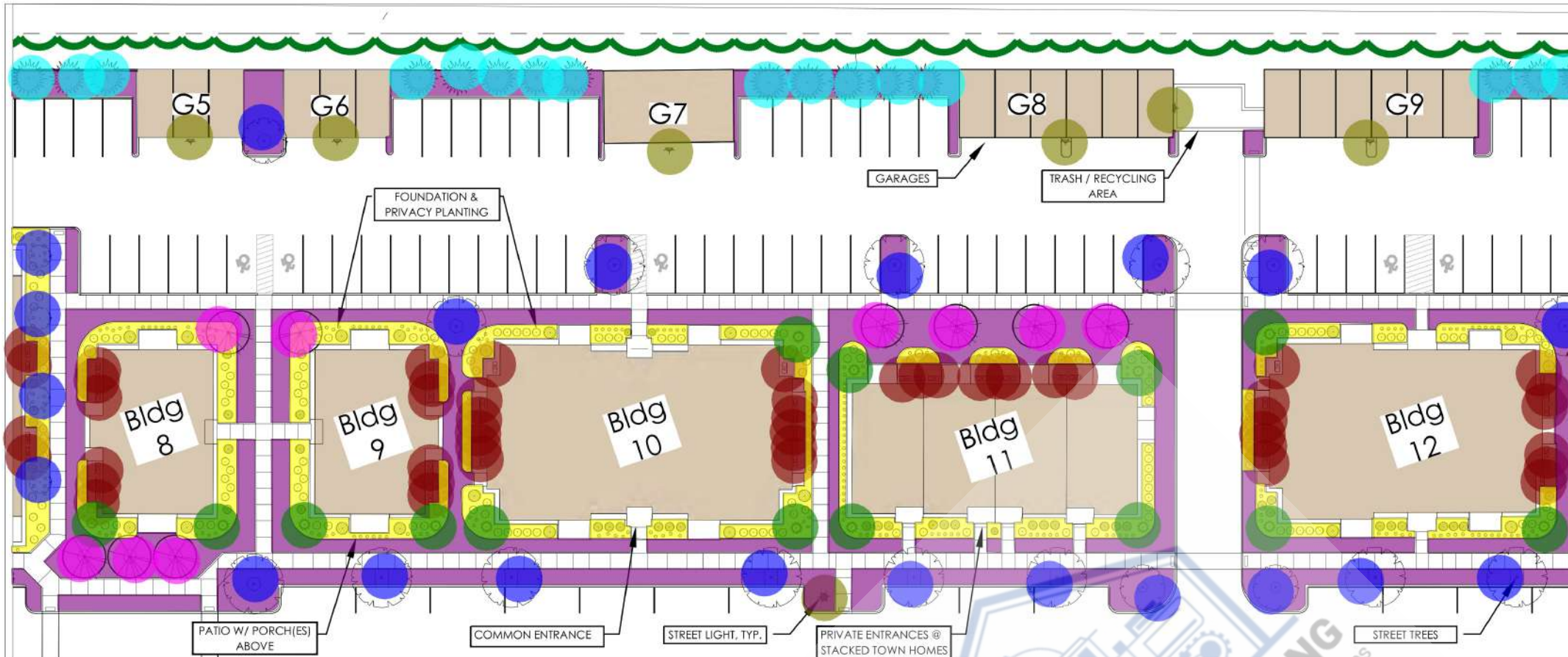
- SPECIMEN TREE
- SHADE TREE
- FLOWERING / UNDER-STORY TREE
- EVERGREEN TREE
- COLUMNAR EVERGREEN
- SHRUBS & PERENNIALS
- SPECIALTY PAVING
- FENCING
- PICNIC TABLE
- BENCH
- SITE LIGHTING
- AC / HEAT PUMP CONDENSERS



Neighborhood -- Key Plan



② Pocket Park - North



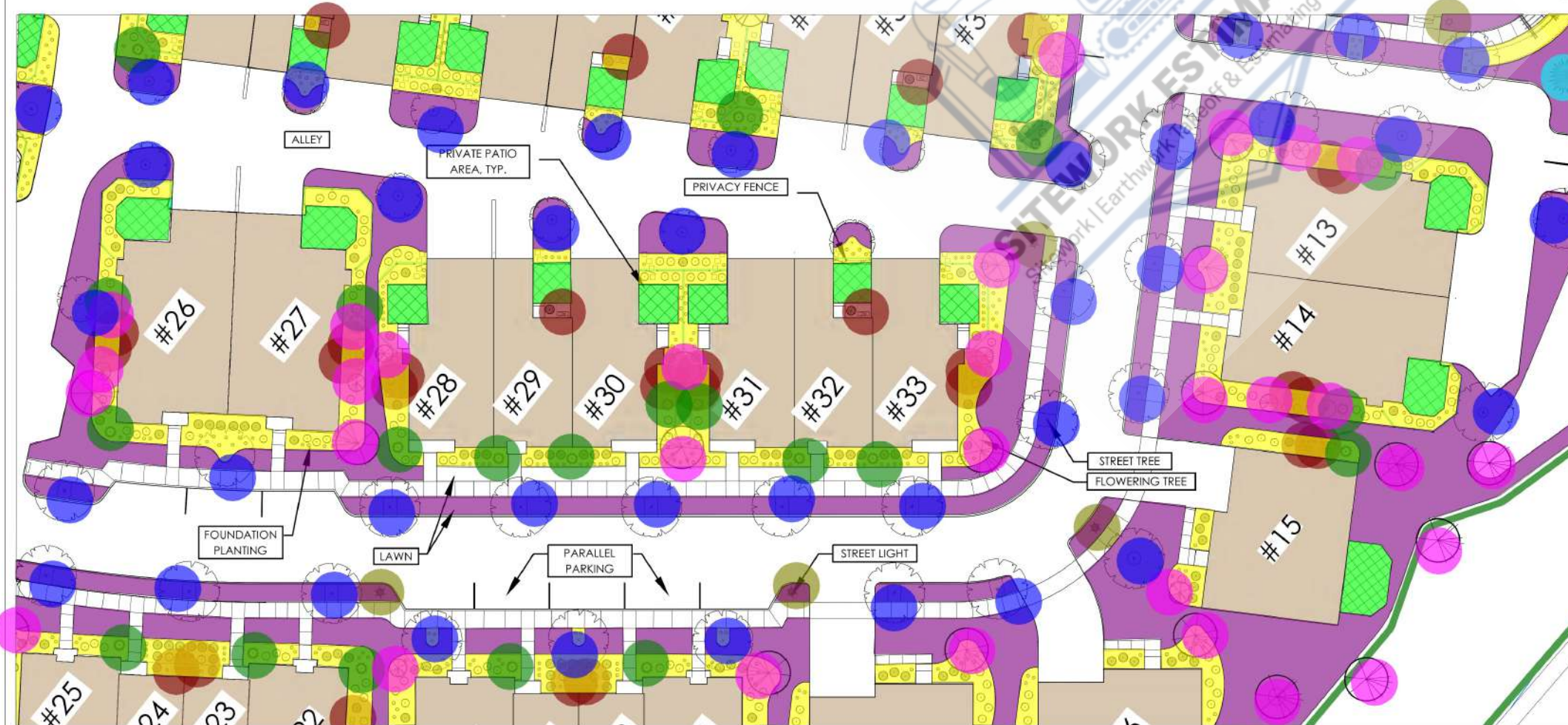
① North Neighborhood -- Typical Buildings



North Neighborhood -- Key Plan



South Neighborhood -- Key Plan



② South Neighborhood -- Typical Buildings

Legend



• Evergreen Tree	1.0 EA
• Evergreen Tree	16.0 EA
• Columnar Evergreen	21.0 EA
• Columnar Evergreen	14.0 EA
• Flowering/ Under Story Tree	31.0 EA
• Flowering/ Under Story Tree	9.0 EA
• Shade Tree	41.0 EA
• Shade Tree	21.0 EA
• Shrubs & Perennials	12087.2 SQ FT
• Shrubs & Perennials	5821.2 SQ FT
• Green Area Lawn + Mulching Assum...	19242.5 SQ FT
• Green Area Lawn + Mulching Assum...	13372.2 SQ FT
• AC Heat Pump Condenser	29.0 EA
• AC Heat Pump Condenser	48.0 EA
• Site Lighting	5.0 EA
• Site Lighting	7.0 EA
• Specialty Paving	3348.1 SQ FT
• Rail Fence	603.9 FT

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ph: 781-314-0401
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Amesbury, MA

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non Areas
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