

TF	REE L	IST:					
	Scientific Home	Common Home				Condition	Remoye
74 No. 2001	Acer pictonoides	Horizy Maple	18,5	Des. 2	Den. 1 Den. 1	Cood	YES
2002 2003	Umus pumile Umus pumile	Sharlon Dm Sharlon Dm	27.8 18.0 9.4			Cood	HO YES
2004 2005	Ulmus omericano Acer plotanoides	American Dra Montoy Mople	9,4 7,8	89		Cood	YES WE
2008	Acer piotonoides	Horizo Varie	7.6	ļ	$\vdash\vdash$	Good	10
2007	Acer plotonoides	Horizy Maple	9.7			Fair	100 H
2006	Acer plotonoides	Horitoy Mopte	12,7			Fair	ж
2009	Acer piotonoides Acer piotonoides	Horitoy Wapie Horitoy Wapie	7,2			Fair Fair	NO NO
2011	Acer piotonoides	Horitoy Mopie	6.9	\vdash		Fol	100
2012	Acer plotonoïdes	Marijay Mapie	9,1	┢╌		Fair	NO.
2013	Quercus nubro Discomericone	Red Ook Bossecod	7,7	6.5		Foir Foir	NO YES
2015	Overcus obs	prite Ook	24,1	N3		Cood	765 760
2016	Quercus albo	Ministe Colo	18,8			Cood	Ж
2017	Overcus alba Acer piotonoides	Monitor Monitor	28.4	16.8		Cood	NO NO
2019	Tilio omericone	Bossegood	7.1			Foir	75
2020	Populus defloides Acer piotonoides	Collangood	34,4			Fol	YES
2021	Acer piotonoides Tilio omericane	Marijay Maple Bassijood	54,5			Foir	YES HO
2023	Acer plotonoides	Horitoy Maple	11,6	8,7	\vdash	Febr	140
2024	Acer plotonoides	Hartey Maple	6.8	\vdash	\vdash	Fol	YES
2025 2028	Tilia americana Acer piotanoides	Bossicod Norgey Mople	10.8			Fair Fair	YES YES
2026	Acer plotonoides Acer plotonoides	Morgay Mople	19,6	 	\vdash	Fair	YES YES
2028	Acer negundo	Box-Dder	11,7	\vdash	\vdash	Peor	YES
2029	Quercus olbo	Minise Dak	27,2			Cood	YES
2030 2031	Corpinus cordinions Jugions nigre	American Hombsom Block (floinut	8.8			Cood	YES
2032	Juglane nigre	Book Mohul	9.5	 		Good	YES
2033	Jugione nigre	Block (folinut	8,2			Foir	755
2034	Jugione nigre	Block Molnut	11.0			Cood	YES
2035	Acer plotonoides Ulmus emericano	Harrioy Maple American Dra	8,5 B,1	8,0		Cood	YES YES
2037	Jugions nigre	Book Moinut	9.9			Good	765
2039	Jugione nigre	Block Molnut	7,4			Cocal	YES
2039 2040	Unus punilo Umus punilo	Apple Siberios Das	7,0 7,8			Good Poor	YES YES
201	Ulmus pumilio Ulmus pumilio Acer negundo	Siberion Dre Siberion Dre Box-Dider	18.6 18.0	18.0		Poor Poor	AC2 AC2
2043 2014	Ulmus cumbo	Sherion Day	13,5	_		Poor	YES YES
2046 2046	Ulmus pumile Ulmus pumile	Sherion Dra Sherion Dra	15,5			Poor	YES
2047 2048	Ulmus pumile Acer plotonoides	Sherion Das Horney Maple	12.0 22.0			Poor Cood	YES
2049	Umus emericono	American Dm	14,5			Fair	YES
2050 2051	Umus pumilo Populars	Sherion Dra Cottongcod	12.2 32.2	32,1		For	YES
2052	detoides Ulmus emericano	American Dra	10.3			Feb	XES
2053 2054	Populars delloides Populars	Cotton/good Cotton/good	13,0			Fair Fair	NES NES
2055	Populars Populars	Collangood	23,1			ra.	YES
2058	Populars defloides Populars defloides	Cottongood	31.1			Fair	755
2087 2088		Cottongood Siberion Dan	22,8 17,2	L	$oxed{oxed}$	Fair Fair	YES YES
2059	Populus defloides Ulmus pumilio	Collangood Siberian Dim	40,1 15,1	11,1		Fair	YES
2061 2062	Ulmus pumilio Acar negundo	Sherion Dan Box-Elder	10.1	Ë		Fee	AC2 LE2
2063	Acer segundo	Box-Dder	11.2	\vdash		Tab	YES
2084	Acer negundo	Box-Elder	8,3			Fair	YES
2065	Acer esquedo	Box-Elder	9.4	, ,,		10	YES YES
2066	Acer megundo Ulmus pumbe	Box-Elder Sherion Dm	17,7	6,5		Fair	YES YES
2069	Llimus pumile	Sherion Dan Sherion Dan	9,8			Tai	YES
2070 2071	Umus pumile Acer segundo	Sherton Dim Box-Elder	80	-	H	Tob Tob	765 765
2072	Acer megundo	Box-Elder	6,8			Feir	YES
2073 2074	Ulmus pumbe Jugions nigre	Sherion Dan Block Moleul	22.3 7.4	\vdash		Good	YES
2075	Acer sectionum	Sugar Wapie	9,0	L		Good	YES
271	Acer plotonoides	Horgey Mople	7.6			Tel:	YES
2078	Acer piotomoides Acer piotomoides	Horgey Maple Horgey Mople	8,2 9,3	_		Fair	YES YES
	Acer plotosoides	Horjey Monte	7,2	-	$\vdash\vdash$	Foir	163
	Acer piolonolóes	Horizoy Maple	7,7	\vdash	\vdash	Feir	YES
2081	Acer sectiones	Sugar Waste	6,7			Good	YES
2002	Acer negundo	Box - Exter	10,0			Fair	NES.
			1 '''	l	1		
2083 2084	Acer negundo	Box-Dów	9.4			Feir	YES
2083	1	Box-Dder Box-Dder	9.4 7,8			Foir	AEZ AEZ
2083 2084	Acer megundo					I .	1 1

Te-V	Scientific Nome	Common Home					Condition	Remo
744 Ma. 2088	Acer soccharieum Rhomeus	Stree Mople	23.2	Dans. 2	Ben.)	Dans 4	Cood	YES
2080	Rhomaus cotherics	Common Buckthorn Common	6.7				Fair	YES
2090			53,1				Fair	YES
2091	cothertics Acer sequedo	Buckthorn Box-Elder	16.6	10.8			Fair	YES
2092	Populars defloides	Cottongood	50,9				Fair	YES
2093	Acer sequindo	Box-Dider	13.3				Fair	YES
2094	Acer segundo	Box-Elder	15,8	127			Feir	YES
2090	Frankrys pensylyanica	Creen Aste	9,7				Feir	YES
2098	8	Collandood	37.3				Foir	YES
2097	gelodes_	Collongood	50,4	-			Good	YES
2098	Popular	Collongood	9.9				Poor	YES
2099	deltoldes Prunus serotina	Block Overry	80			-	Poor	YES
2100	Prunus serotino	Block Charry	7,2		_	-	Poor	YES
2101	Prunus serolino	Block Cherry	12,8			_	Fair	YES
2102	Promos aylors	Speel Charry	6.8			$\overline{}$	Fek	YES
2103	Populars	Collangood	84				F&	YES
2104	delicides Populus delicides	Collangood	63			<u> </u>	Fall	YES
2105	deficides Acer negundo	Box-Elder	12.7	7,9			Feb	YES
2106	Acer negundo	Box-Elder	9,7	8.2			Fair	YES
2107	Acer megundo	Bos-Elder	7,5				To:	YES
2108	Freninus parayhonico	Creen Ash	6,5				72	YES
2109	Femine	Creen Asia	A3		<u> </u>		L	YES
	pensylyonico		-					
2110	Acer negundo	Box-Elder	7,2			İ	Fair	YES
2511	Ulmes emericono	American Dra	25.0				Poor	YES
2112	Acer negundo	Box-Elder	11,1				Poor	YES
2113	Worse albe	frite Materry	7,0				Total	YES
2114	Motor pumile	Acquie	13,0				lav	YES
2115	Populars tramuloides	Quality Aspen	6.8				Tour	YES
2116	Prunus serolina	Block Cherry	14.4				Tor	YES
2117	Acer socchorum Prunus serotino	Sugar Maple Black Cherry	12,2				Cood	YES
2118	į.	Box-Dider	""	L			1 GW	
	Acer negundo		16.8					YES
2120	Acer regundo	Box-Eder	4.5				Tour	
2121	Jugians rilgre	Block Walnut	11.0				Four	YES
2122	yndioue ujdus	Block Molnut	83				Poor	YES
2123	Fresinus panaphonica	Green Ash	6.9	Г			74	YES
2124	Acer negundo	Box-Exter	7,4				Tot	YES
2125	Acer segundo	Box-Dider	68	 		├	Feb.	YES
2126	Ulmus emericano	American Dra	7.0	 	_		Fair	ж
2127	Phomos	Common	10		-	├	Fall	140
2126	Cothortice Popular	Duck From Chroking Aspen	86				Poor	HO
2129	Populus Populus transloides	Owoking Aspen	8.1	├		├─	Poor	но
2130		Oucking Aspen	ā1	<u> </u>			Poor	HO
213	Popules tremuloides Acer soccharinum	Sher Waste	18.3	10.2			Poor	140
21.52		Green Ash	17,8				Excellent	HO
	pensylyonico		L				Fundani	
2133	Overcus anocrocorpe	Bur Ook	19,0					AE2
2154 2185	Prunus serotino	Block Cherry	13,0				lov	YES
	Prunus seročina	Block Charry	14.9				Febr	YES
2136	Overcus oibs	Spile Ook	12,3				Fair	ACZ
2157 2156	Populus defloides Prunus serotino	Collangood Back Cherry	11,9	<u> </u>	ļ	ļ	Fair Poor	7ES
2130	Prunus serolino	Block Cherry	80	 	ļ	<u> </u>	Fair	725
2140	Prunus serolino	Block Cherry	14,8		<u> </u>	<u> </u>	Foli	7ES
2141	Overcus velutine	Block Ook	17.6		-	<u> </u>	Fol	75
2142	Acer plotonoides	Hantoy Maple	7.1	\vdash	\vdash	\vdash	For	75
2143	Prunus serotino	Bock Cherry	9.9	<u> </u>		_	Fair	YES
2144	Prunus serotino	Book Overry	13.5	\vdash	\vdash	\vdash	Fair	YES
2145	Votes purato		9,8	\vdash	\vdash	 	Fair	YES
2146	Solice	Apple Peochical (Mag	9,8				iā.	YES
2147	Tillo omericane	Bossejcod	6,3	-	\vdash	\vdash	Cood	75.5
2148	Rhameus	Common	6,7	<u> </u>	\vdash	-	Cood	YES
2149	cothertica Tilio emericano	Buck thorn Bossepood	89	\vdash	\vdash	\vdash	Good	HO
2150	Titio omericana	Bossijcod	13,3	—	\vdash	\vdash	Cood	140
2151	Oversus	Bur Ook	99	\vdash	\vdash		Cood	140
2(52	Overous mocrocerpe Ulmus pumile Prunus serotine	Sharlon Drn	9.4				Cood	140 140
2183	Prunus serotino	Block Cherry	14,8				Cood	
2184	Titio omericano	Bossepcod	IAI	ļ.,		ļ.,	Febr	140
2155	Tilia americana	Bossejcod	11.2	10.7	10.8	10.5	Feb	YES
	mocrecerpe mocrecerpe	Bur Ook	10,3	<u> </u>			Cood	140
2157	Overous yelutina	Brock Oak	35.6			L	For	140
	Tito onericore	Bossycod	ILI	13.2			Fee	МO
	Tito omericans	Bossycod	9,8	6,2			Tab	нo
2159	Tillo omericano	Bossejcod	9.0				Tor	140
2159 2180	ı		16.3	1	L	L	Tel:	HO HO
2159 2160 2181	Tilia conericona	Bossegood	70-					110
2159 2160 2161 2162	The emericane	Bossepood	18,8				1	1
2150 2160 2161 2162 2163	Tilio americano Tilio americano Tilio americano	Bossejcod Bossejcod	15,6				Toir	ж
2159 2180 2181 2162 2163 2184	Tilio omericana Tilio omericana Tilio omericana Tilio omericana	Bossipood Bossipood	15,6				Febr	жo
2150 2160 2161 2162 2163	Tilio americano Tilio americano Tilio americano	Bossejcod Bossejcod	15,6				Toir	ж

7 mg Ma. 2168	Scientific Mome Tilia americana	Common Home Bassigood	7.7	D=1.2	Den. 3	D=_4	Condition	Remoy
2169	Tilia americana	Bossycod	8.5	<u> </u>	<u> </u>	<u> </u>	Poor	NO NO
2170	Tilia americano	Bassycod	10,4	-	-		Tor	HO
2171	Tillo omericono	Bossycod	7,7				Fair	140
2172	Tile emericano	Bossycod	10,2				Fair	HO
2173	Tile emericane Tile emericano	Bossepood	7.7				Fair Fair	140
2775	Tito omericano	Bossejcod Bossejcod	10.5		<u> </u>		Fair	HO HO
2176	Overous	Bur Ock	6.5	_	⊢		Fair	140
2577	mocrecerpe Tilio emericano	Bossegood	17,2		\vdash	<u> </u>	Foir	ж
2178	Tão priericano	Bossepood	11,7				Fair	ж
2170	Tilo omericono	Bampoof	8.3				Fair	ж
2180 2181	Tile omericano Tile omericano	Bassycod	10,7 1L8				Feb Feb	HO YES
2182	- Bonder	Bassycod Collangead	10,2	<u> </u>	<u> </u>		Tel	AC2
2183	Populars	Oucking Aspen	10,5		-		Tel	YES
2184	tremulcides Tilio americano	Bossycod	15,7	 			Tár	YES
2185	Tilia americana	Bossicod	15,4	_			Tol	YES
2186	Vimus nore Populati	Slippery Dm Outsling Aspen	22.0 7,0				Good Poor	YES
2180	Populus Iramuloides Prunus serolino	Book Cherry	12.7	<u> </u>			Cood	YES
2180		Americos	6.2	<u> </u>	<u> </u>		Good	YES
2190	Corpinus corpiniona Populara	Hombean Cotton/good	58,7	18.5			Poor	YES
2191	delloides Prunus serotino	Block Cherry	7,2				Poor	YES
2192	Ulmus omericano Motus pumbo	American Dre	121				Fair Poor	AEZ AEZ
2193	Charce Apriles	Apple Block Ook	19,8	7.2			Coof	YES
2195	Populars Iremuloides	Quality Aspen	6.9				Fair	YES
2198	tramuloides Motus pumito Motus pumito	Açção Aceta	8.7 8.7				Cood	JES JES
2196	Umus americano	Apple American Dra	1Q.4				Poor	YES
2199	Overcus mocrocorpa	Bur Ook	11.8	8.9	7.2		Cood	KES
2200	Prunus serotino Sossairos	Block Cherry Sossofros	16,5				Good	YES
2200	ottidura Volus pumilo	Apple	7,5				<u>88</u> €	755
2203	Tifo omericono	Bossycod	12,5	9.5	8,1	7.4	¥ 3	YES
2201	Prunus serotino Uraus omericano	Block Cherry American Dra	8,3				100	ю
2208	Ponika	Quoking Aspen	121				Tel:	NO NO
2207	tramulcides Volus cumilio	Apple	6.4				Tak	HO
		Block Cok						
2208	One.crs Aeriges		27.2				Excellent	Ж
2209	Somoires ottidura	Scanolros	11,7				Cood	щ
1	Somoires ottidura	Sozzo fros Sozzo fros					Cool	HO HO
2209 2218	Complete	Scanolros	11,7 9,0				Cood	щ
2209 2216 2211 2212 2213	Sossofros obidura Sossofros obidura Prunus serolino Ouercus yelutino	Somefroe Somefroe Block Cherry Block Cok Block Cok	11,7 9,0 11,8 16,9 8.5				COO COO Je y COO Excellent Excellent	140 140 140 140
2209 2216 2211 2212 2213 2214	Sossofres objects Sossefres objects Provus serolino Overcus velutivo Overcus velutivo Provus serolino	Scenafron Scenafron Block Cherry Block Cak Block Cak Block Cherry	11.7 9.0 11.8 16.9 8.5				Cod Cod Sery Cood Excellent Cod	140 140 140 140 140
2209 2216 2211 2212 2213 2214 2215	Sossofros objetaria Sossofros objetaria Pruntus serolino Ouercus velutino Ouercus velutino Pruntus serolino Ulmus emericono	Scenafron Scenafron Block Cherry Block Cek Block Cherry American Dra	11.7 9.0 11.8 16.9 8.5 8.9				COOT SOUTH	140 140 140 140 140 155
2209 2216 2211 2212 2213 2214	Sossofres objects Sossefres objects Provus serolino Overcus velutivo Overcus velutivo Provus serolino	Somefree Somefree Block Cherry Block Cek Block Cek Block Cherry American Dm	11.7 9.0 11.8 16.9 8.5 8.9 8.3 54.8	-			Cool Yery Cool Excellent Cool Tol	HO HO HO HO HO HCS HO
2209 2216 2211 2212 2213 2214 2215 2216	Sossolres objetura Sossolres objetura Sossolres objetura Prunus sercitivo Chercus yelutike Prunus sercitivo Ultrus emericano Chercus yelutike Chercus yelutike	Scenafron Scenafron Block Cherry Block Cek Block Cherry American Dra	11.7 9.0 11.8 16.9 8.5 8.9				COOT SOUTH	140 140 140 140 140 155
2209 2216 2211 2212 2213 2214 2215 2216 2217	Sossolines esticionis Sossolines esticionis Sossolines esticionis Prunus servitino Duercus velutine Prunus servitina Ulmus emericane Ouercus velutina Duercus velutina Duercus velutina Duercus velutina	Scenalina Scenalina Bock Cherry Block Cek Block Cek Block Cherry American Den Block Cok Block Cok	11,7 9,0 11,8 16,9 8,5 8,9 8,3 54,8				Cood Very Cood Excellent Cood For Excellent Excellent	140 140 140 140 140 140 140 140
2209 2218 2211 2212 2213 2214 2215 2216 2217 2218 2218 2219	Sossolines objektive Sossolines Sossolines Sossolines Printus servicine Charcus valutine Printus servicine Ultrus emericane Charcus valutine Charcus valutine Printus strobus Corya ovola Charcus valutine Printus strobus Corya ovola Charcus valutine	Sossofros Sossofros Block Overry Block Ouk	11,7 9,0 11,8 16,9 8,5 8,9 8,3 54,8 13,2 10,7 7,0	-			Cool Cool Cool Yery Cool Excellent Cool Fair Excellent Cool Cool Cool	HO HO HO HO HO HO HO
2209 2216 2211 2212 2213 2214 2215 2216 2217 2218 2218 2220 2220	Sometree objety. Sometree objety. Sometree objety. Sometree objety. Prune seroline durcus valutine funce seroline durcus valutine durcus valutine funce seroline valutine objety. Sometree valutine funce seroline objety. Sometree valutine durcus valutine funce seroline objety. Sometree valutine durcus v	Sossolros Sossolros Bock Oserry Bock Ose Bock Ose Bock Ose Bock Ose Bock Ose Bock Ose Social Ose Bock Ose	11,7 9,0 11,8 16,9 8,5 8,5 8,5 13,2 10,7 7,0 18,2 17,5				Cool Cool Cool Yery Cool Excellent Cool Fair Excellent Cool Cool Cool	45 45 45 45 45 45 45 45 45 45 45 45 45 4
2209 2216 2211 2212 2213 2214 2215 2216 2217 2218 2220 2221	Sometres etidyes Sometres etidyes Sometres etidyes Characa valutine	Sossafros Sossafros Block Overry Block Osk	11,7 9,0 11,8 16,9 8,5 8,5 8,3 54,6 13,2 10,7 7,0 18,2 17,5			Marie Control	COOR SECONDARY COOR S	40 40 40 40 40 40 40 40 40 40 40 40 40 4
2209 2216 2217 2213 2214 2215 2216 2217 2218 2229 2221 2221	Sometree objety. Sometree objety. Sometree objety. Sometree objety. Prune seroline durcus valutine funce seroline durcus valutine durcus valutine funce seroline valutine objety. Sometree valutine funce seroline objety. Sometree valutine durcus valutine funce seroline objety. Sometree valutine durcus v	Sossolros Sossolros Bock Oserry Bock Ose Bock Ose Bock Ose Bock Ose Bock Ose Bock Ose Social Ose Bock Ose	11,7 9,0 11,8 16,9 8,5 8,5 8,5 13,2 10,7 7,0 18,2 17,5				Cool Cool Cool Yery Cool Excellent Cool Fair Excellent Cool Cool Cool	25 25 25 25 25 25 25 25 25 25 25 25 25 2
2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2220 2221 2221 2221 2221	Sometree exhibits and the second of the seco	Scenarios Scenarios Scenarios Bock Dearry Bock Oat	11.7 9.0 11.8 16.9 8.5 8.3 54.6 13.2 10.7 7.0 18.2 17.3 13.3 20.8				COOR SECONDARY COOR S	40 40 40 40 40 40 40 40 40 40 40 40 40 4
2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2220 2221 2221 2222 2224 2224 2228 2228	Social real Control valuation	Sometre Sometre Bock Owk Bock Out	11.7 9.0 11.8 16.9 8.5 8.3 54.8 13.2 10.7 7.0 16.2 17.5 13.3 20.8 7.4 8.0 27.4				CO 0 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
2209 2210 2211 2213 2214 2215 2216 2217 2218 2220 2221 2223 2224 2224 2225 2226 2227	Sometime School of the control of t	Somefree Somefree Bock Ower Bock Oak	11.7 9.0 11.6 16.9 8.5 8.6 8.3 54.6 13.2 10.7 7.0 18.3 17.5 13.3 20.8 7.4 8.0 27.6 27.6 27.6 27.6 27.6 27.6 27.6 27.6				Cool Good Yery Cool Tarasten Cool Tar Tar	24 24 24 24 24 24 24 24 24 24 24 24 24 2
2209 2210 2211 2213 2214 2215 2216 2217 2228 2221 2221 2221 2222 2223 2228 2228	Sometime School of the control of t	Somefree Somefree Bock Out	11.7 9.0 11.8 16.9 8.5 8.9 8.3 54.8 13.2 10.7 7.0 18.2 17.5 13.3 20.8 7.4 8.0 27.6 20.1 27.6 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1				Cool Sury	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
2209 2210 2211 2213 2214 2215 2216 2217 2228 2221 2221 2221 2222 2223 2228 2228	Sossaires sebbyes sebbyes Phuse sercine Genral veluties Phuse sercine Cerral veluties Phuse sercine Cerral veluties Corral veluties	Somefroe Somefroe Bock Obs Boc	11.7 9.0 11.8 16.9 8.5 8.3 9.4 13.2 10.7 7.0 18.3 20.8 7.4 8.0 27.8 20.8 27.8 20.8 27.8 20.8 27.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20				Cool Service Cool	
2209 2210 2211 2213 2214 2215 2216 2217 2228 2221 2221 2221 2222 2223 2228 2228	Sometime School of the control of t	Somefree Somefree Bock Out	11.7 9.0 11.8 16.9 8.5 8.9 8.3 54.8 13.2 10.7 7.0 18.2 17.5 13.3 20.8 7.4 8.0 27.6 20.1 27.6 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1				Cool Sury	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
2299 2210 2211 2212 2213 2214 2215 2216 2217 2218 2220 2221 2224 2224 2226 2227 2228 2228 2228 2229 2228 2228 2228	Social real real real real real real real re	Sometre Sometre Souther Society Societ	11.7 9.0 11.8 16.9 8.5 8.3 54.6 13.2 10.7 10.				Cool Cool Yery Cool Tacasana Cool Fair Excellent Cool Fair Excellent Cool Fair Excellent Cool Fair Excellent Cool Fair Fair Fair Fair Gool Good Good Good Good Good Good Good	24 24 24 24 24 24 24 24 24 24 24 24 24 2
2203 2217 2217 2217 2217 2218 2218 2217 2218 2220 2221 2221 2224 2225 2228 2228 2228 2229 2228 2228 2228	Sometime School Teach School	Somefroe Somefroe Bock Out Boc	11.7 9.0 11.8 14.9 15.9 16.9 16.9 16.9 17.0 17.5 1				Cool Cool Very Cool Excellent Cool Cool Excellent Cool Cool Very Cool Very Cool Cool Very Cool Cool Cool Cool Cool Cool Cool Coo	100 HO
229 221 222 223 225 225 225 225 225 225 225 225	Sometine Scholare Scholare Scholare Scholare Scholare Scholare Scholare Frunce serotine Germa serotin	Sometre Sometre Sociality	11.7 9.0 11.8 10.9 10.9 10.9 10.7 10.7 10.7 10.7 10.9 1				Cool Cool Very Cool	100 HO
2209 2210 2211 2212 2213 2216 2216 2216 2220 2221 2223 2224 2228 2227 2228 2229 2239 2230	Sometime School of the control of t	Sometre Sometre Souther Southe	11.7 9.0 11.6 14.9 14.9 15.0 15.2 16.7 17.5 13.3 20.8 27.4 13.0 1				Cool Cool Very Cool Cool Cool Cool Cool Cool Cool Coo	100 HO
220 221 221 222 223 223 223 223 223 223 223	Social real real real real real real real re	Somefree Somefree Bock Overy Bock Out B	11.7 9.0 11.8 14.9 14.9 15.3 15.3 16.7 17.0 16.3 17.5 13.3 20.8 20.1 13.0 1				Cool Service Cool Cool Service Cool Cool Service Cool	40 40 40 40 40 40 40 40 40 40 40 40 40 4
223 221 222 223 223 223 223 223 223 223	Sometine School of the Control of t	Somefree Somefree Bock Overy Bock Out B	11.7 \$0 11.8 14.9 14.9 15.0 16.3 16.7 16.7 16.7 17.0 18.3 17.0 18.3 17.0 18.3 17.0 18.3 17.0 18.3 17.0 18.3 18				Cool Cool Service Location Cool Cool Cool Service Serv	HO H
220 221 221 222 223 223 223 223 223 223 223	Sometine Scholare Scholare Scholare Scholare Scholare Scholare Scholare Finuse serotion Cornor vertice Cornor vertic	Somefree Somefree Bock Overy Bock Out B	11.7 9.0 11.8 16.9 16.9 16.9 16.9 16.3 17.5 13.3 13.5 20.8 20.1 13.0 1				Cool Service Cool Cool Service Cool Cool Service Cool	HO H
2205 2216 2217 2217 2218 2218 2218 2218 2229 2221 2221 2224 2225 2226 2227 2227 2228 2229 2229 2229 2229 2229	Sometime School of the control of t	Somefree Somefree Bock Overy Bock Out B	11.7 \$0 11.8 14.9 8.5 8.6 8.3 54.6 13.2 10.7 7.0 10.7				COO	100 HO
220 221 222 223 225 225 221 221 225 225 225 225 225 225	Sometime School of the control of t	Sometre Sometre Sometre Bock Out Bock O	11.7 9.0 11.8 14.9 14.1 14.1 14.1 15.1 16.2 16.3 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	8.3			Co Co Co Co Co Co Co Co	40 40 40 40 40 40 40 40 40 40 40 40 40 4
220 221 222 223 223 225 225 225 226 226 226 227 227 227 227 227 227 227	Sossaires Sossaires Sossaires Sossaires Sossaires Sossaires Prunus serotino Corrons veutino Prunus serotino Corrons veutino Prunus serotino Corrons veutino Prunus serotino Corrons veutino Corrons Corron	Sometre Sometre Sometre Bock Oak Bock O	11.7 9.0 11.8 8.5 8.5 8.3 13.2 10.7 7.0 18.2 17.5 13.3 20.8 20.8 20.8 20.9 13.0				Cool Cool Cool Cool Cool Cool Cool Cool	
229 229 229 229 229 229 229 229 229 229	Sometime School of the control of t	Sometre Sometre Sometre Bock Out Bock O	11.7				Cool Cool Cool Cool Cool Cool Cool Cool	100 HO

CLOSING COMMENTS

PROR TO THE RELEASE OF THE PERFORMANCE BOND, THE CITY OF ROCKESTER HILLS FORESTRY UNSOWN HEEDS TO INSPECT ALL REASE DISTRIBUTE ON HANTON, TO EXCHIFF ANY THAT FOCK A HAZARD TO THE SATE USE OF THE PREMI'S REGIT-G-MIN', TORSETRY WAY FERRER THE DELEMENT TO RELEASE, MAY POSSELY REPUTED, ANY SIGN TREES.

DETENTION CALCULATIONS:

```
Detention Calculations
Project Name: VILLAS OF SHADOW PINES
Job Number: 2012-043
Data: 6-6-13
Revisions: 6-6-13 4-1-14
Allowable Outflow:
Total Acreage: A = 9,825 acres
Tributary Acreage: A = 9,82 acres (Gross site area minus wellands and area draining into we Allowable Outflow = 0.20 cfs/acre

Allowable Outflow = 0.20 cfs/acre

Tributary Acreage: A = 9,92 acres (Gross site area minus wellands and area draining into we Allowable Outflow = 0.20 cfs/acre

Q<sub>x</sub> = 0,20 xA = 1.38 cfs

Runoff Coefficient = C = 0.47
   Required Detention Volume, 25-Year Storm:
               Q_0 = \frac{Q_A}{A \times C} = \frac{1.38 \text{ cfs}}{6.92 \text{ acres x } 0.47} = 0.43 \text{ cfs (per acre)}
               T_{25} = -25 + \sqrt{\frac{8.062.50}{Q_0}} = -25 + \sqrt{\frac{8.062.50}{0.43}} = 112.6 \text{ min. (per acre)}
               V_{SZS} = \begin{bmatrix} \frac{12,900 \times T_{ZS}}{T_{ZS} + 25} - 40 \times Q_0 \times T_{ZS} \end{bmatrix} = \begin{bmatrix} \frac{12,900 \times 112.6}{112.6 + 25} - 40 \times 0.43 \times 112.6 \end{bmatrix}
                 V<sub>825</sub> = 8639 ft<sup>3</sup> (per acre)
```

V_{T25} = V_{S25} x C x A = 8,639 ft³/acre x 0.47 x 6.92 = 28,100 ft³

Provided Detention Volume, 25-Year Storm: Basin "A"

$$V = N3 \left\{ A_{T} + A_{0} + \sqrt{A_{T} \times A_{0}} \right\}$$

$$A_{T} = A_{0000} = 12,884.4 \text{ ft}^{2} \quad \text{(High Water Level)}$$

$$A_{0} = A_{0000} = 2,597.9 \text{ ft}^{2} \quad \text{(Normal Water Level)}$$

$$h = 5.00 \text{ ft}$$

$$V = 5.00 / 3 \left\{ 12,884.4 + 2,697.9 + \sqrt{12,884.4 \times 2,697.9^{-1}} \right\}$$

$$V = 35,797 \quad \text{ft}^{3}$$

Total Provided Detention Volume, 100-Year Storm: 35,797 ft3

Required Infiltration Volume, Forbay (1-Year Storm):

Required infiltration Volume, Forbay (1-Year Storm):
$$Q_{0} = \frac{\Omega_{A}}{A \times C} = \frac{1.38 \text{ cfs}}{6.92 \text{ acres x}} \frac{0.47}{0.43} = 0.43 \text{ cfs (per acre)}$$

$$T_{1} = -25 + \sqrt{\frac{2.700.00}{Q_{0}}} = -25 + \sqrt{\frac{2.700.00}{0.43}} = 54.2 \text{ min. (per acre)}$$

$$V_{SI} = \left[\frac{4.320 \times T_{1}}{T_{1} + 25} - 40 \times Q_{0} \times T_{1} \right] = \left[\frac{4.320 \times 54.2}{54.2 + 25} - 40 \times 0.43 \times 54.2 \right]$$

$$V_{SI} = 2.024 \quad ft^{3} \text{ (per acre)}$$

$$V_{TI} = V_{SI} \times C \times A = 2.024 \quad ft^{3} \text{/acre x} \quad 0.48 \times 6.92 = 6.583 \quad ft^{3}$$

$$Provided Detantion Volume, 1-Year Storm: Basin "A"$$

$$V = h3 \left[A_{T} + A_{S} + \sqrt{A_{T} \times A_{3}} \right]$$

$$A_{T} = A_{SOLDO} = 5.884 \quad ft^{2} \quad (HEph Water Level)$$

$$A_{B} = A_{SOLDO} = 2.501 \quad ft^{2} \quad (Normal Water Level)$$

$$h = 3.00 \quad ft$$

Total Provided Detention Volume, 100-Year Storm: 8,476 ft3

 $V = 3.00 / 3 \left[5,884 + 2,501 + \sqrt{5,884} \times 2,501 \right]$

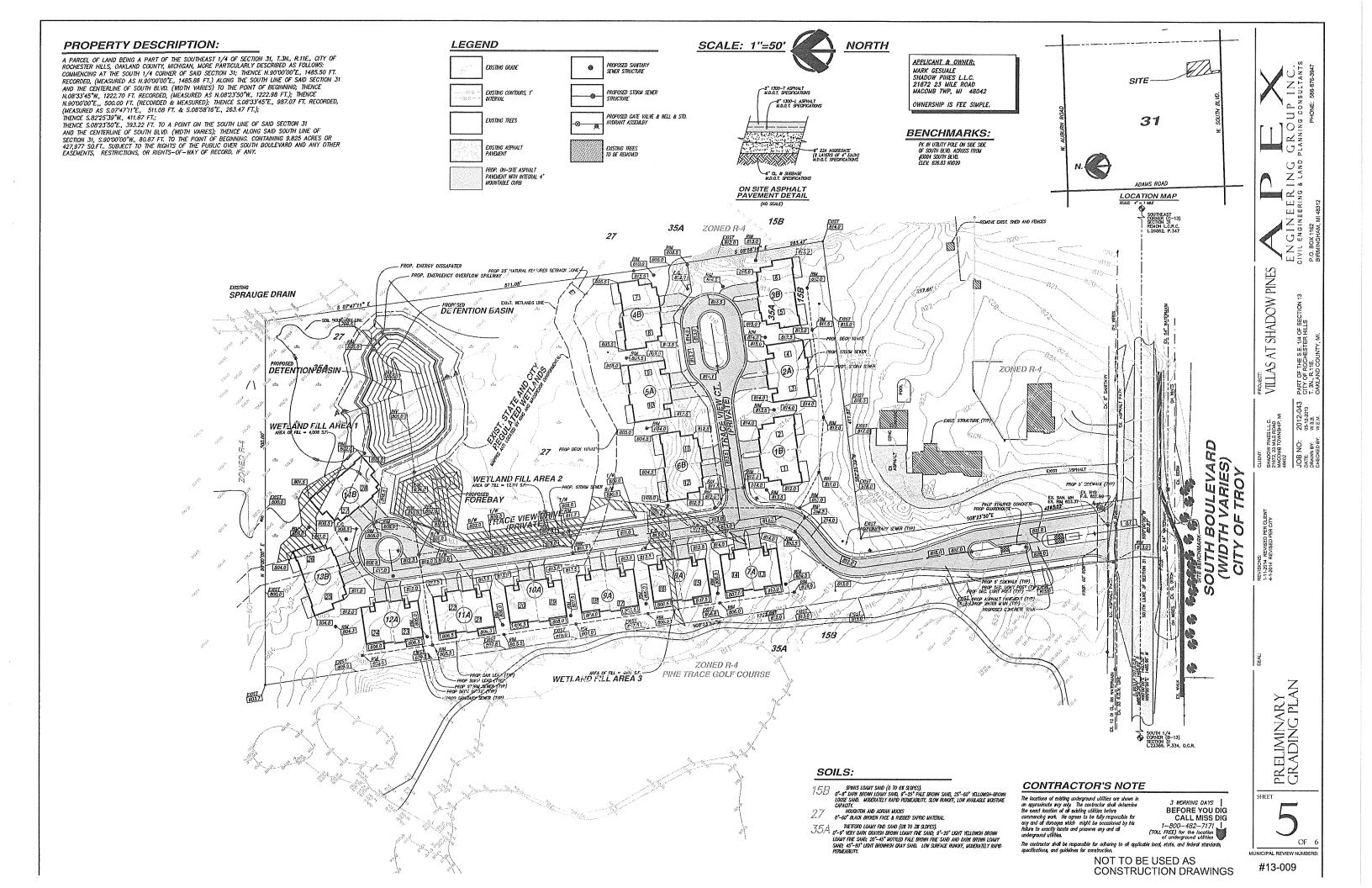
V= 8,476 ft³

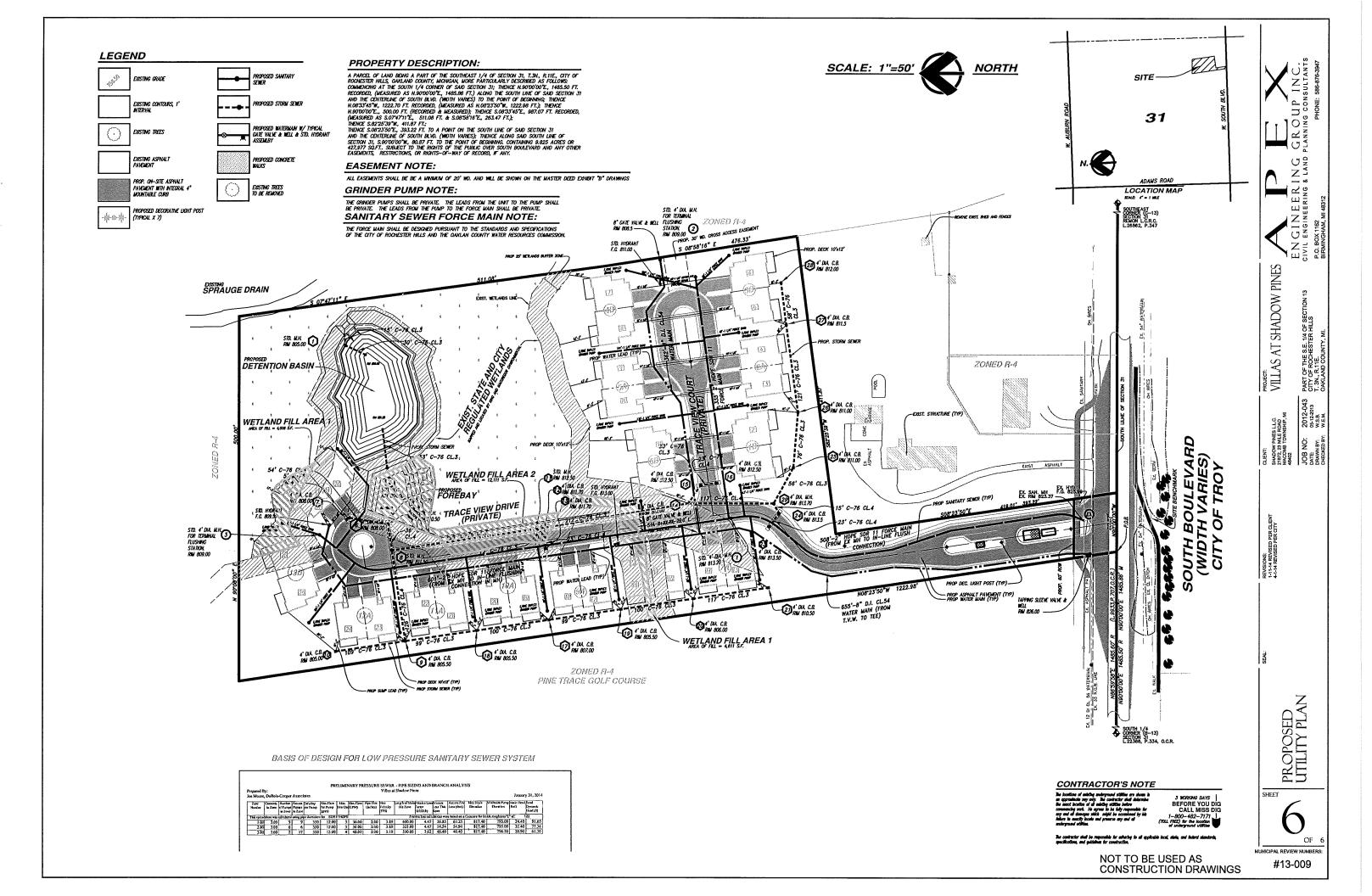
TREE LIST, NOTES AND DETAILS

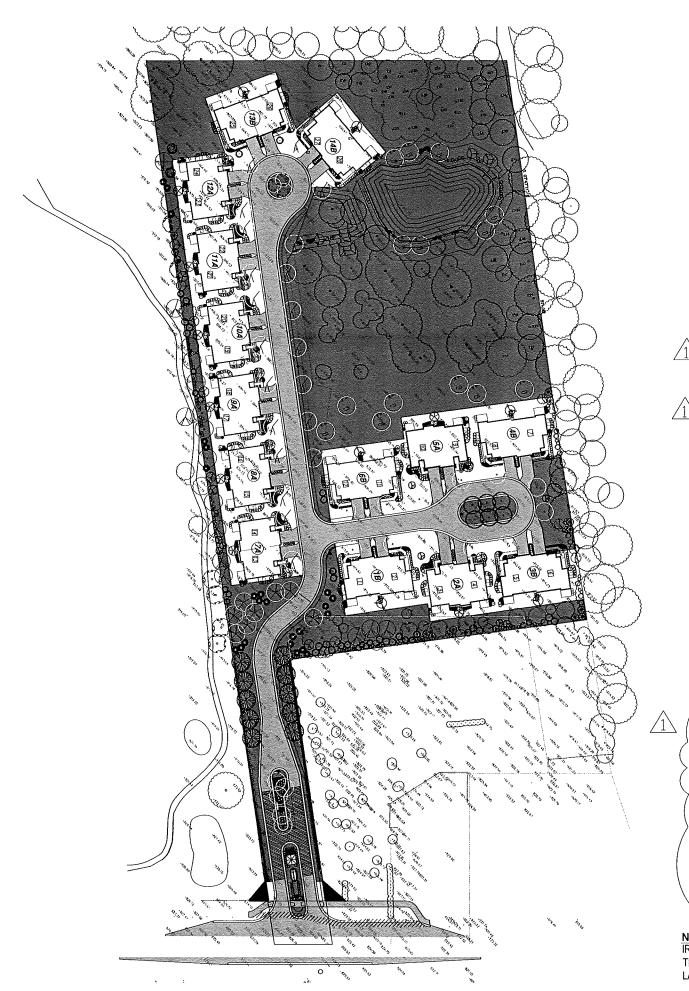
SHEET OF 6

ENGINEERING GROI PROJECT: VILLAS AT SHADOW PINES PART OF THE S.E. 1/4 OF SECTION 13 CITY OF ROCHESTER HILLS T. 3N., R.11E.

MUNICIPAL REVIEW NUMBER #13-009







NOTES:

1. Base, boundary, topographic, legal description, provided by Apex

Engineering Group, Inc.

2. Refer to Architectural drawings, provided by Preview Architecture + Planning for building specifications.

Landscape screening is proposed to minimize the transmission between land use of nuisances associated with noise, dust, glare, litter, and visual pollution. Establish a greater sense of privacy. Establish aesthetically pleasing, functional and sustainable landscape for long term enhancement of the development and community. Safeguard the public health, safety and welfare, and preserve and enhance aesthetic qualities that contribute to community character.

Substantial vegetation exist along the north and east property lines, which will be preserved and are requesting the reviewing authority to waive the buffer requirements in these areas which provide an equal or greater screen.

TYPE 'B' BUFFER: Buffer plantings to meet the City's standards for Type 'B' buffer.

Buffer yard minimum width 10 feet. Deciduous Shade Trees 3" 3" Caliper, 2 Trees per 100LF Evergreen Trees Ornamental Trees 10' HT. and 5' Spread, 2 Trees per 100LF 2" Caliper or 6' HT., 1.5 Trees per 100LF Shrubs 30" HT. and 24" Spread, 4 Shrubs per 100LF

TYPE 'C' BUFFER: Buffer plantings to meet the City's standards for Type 'C' buffer. Buffer yard minimum width 20 feet.

o teet.
3' Caliper, 2 Trees per 100LF
10' HT. and 5' Spread, 4 Trees per 100LF
2' Caliper or 6' HT., 1.5 Trees per 100LF
30" HT. and 24" Spread, 6 Shrubs per 100LF Deciduous Shade Trees Evergreen Trees Ornamental Trees Shrubs

Open Sp	descriptions and the	KSHIKIKANO.
#10#10#1		

OPEN SPACE DATA

ITEM	+/- 9,817 Acres (Gross)	100%
TOTAL SITE AREA	+/- 5.13 Acres (Gross)	52.26
TOTAL OPEN SPACE		

REPLACEMENT TREE	CREDIT TABLE
Tree Type and Size	Replacement Credits
2" Caliper Shade Tree	1 Credit
2.5" Caliper Shade Tree	1.5 Credits
3" Caliper Shade Tree	2 Credits
4" Caliper Shade Tree	3 Credits
6" Caliper Shade Tree	4 Credits
8' Evergreen Trees	1 Credit
9' Evergreen Trees	1.5 Credits
10' Evergreen Trees	2 Credits
12' Evergreen Trees	3 Credits
14' Evergreen Trees	4 Credits

^ /	\sim	/	~ ~ ~	
1\(WEST PROPERTY LINE T	TYPE 'B' BUFFER - 750LF REQUIRED	PROVIDED +	REPLACEMENT TREES / CREDIT
7	Deciduous Shade Trees	7.5 x 2 = 15	15 +	
>		7.5 x 2 = 15	24 4	
(Evergreen Trees			9 X 2 (CREDITS) = 18
	Ornamental Trees	7.5 x 1.5 = 12	15	1
$^{\prime}$	Shrubs	$\sqrt{7.5} \times 4 = 30$	49	
1\/	SOUTH PROPERTY LINE	TYPE 'C' BUFFER - 413LF		
 (REQUIRED	PROVIDED)	
>	Deciduous Shade Trees	4.13 x 2 = 9	9	
}	Evergreen Trees	$4.13 \times 4 = 17$	32 /+	15 X 2 (CREDITS) = 30
- (Ornamental Trees	4.13 x1.5 = 7	12)	' '
	Shrubs	4.13 x 6 = 17	43	
			\checkmark	
ار	EAST PROPERTY LINE TY	'PE 'C' BUFFER - 200LF	\sim	
(REQUIRED	PROVIDED)	
7	Deciduous Shade Trees	2 x 2 = 4	.)	
>	Evergreen Trees	2 x 4 = 8	16 / •	8 X 2 (CREDITS) = 16
(Ornamental Trees	2 x 1.5 = 3	6)	, ,
	Shrubs	2 x 6 = 12	14	
	INTERNAL LANDSCAPE P	LANTINGS: - 1860LF		
		REQUIRED	PROVIDED	REPLACEMENT TREE / CREDIT
	Deciduous Shade Trees	54	54 +	5 X 2 (CREDITS) = 10
	Deciduous Shade Trees		+	8 X 4 (CREDITS) = 32
	Evergreen Trees		18 +	1 ' '
	DETENTION LANDSCAPE	DI ANTINICO-		
	DETERMINING LANDSCAPE	FLANTINGS.	PROVIDED	

DesignTeam +

Design Team +

975 E. Maple Road, Suite 210 Birmingham, Michigan 48009

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Villas at Shadow Pines Rochester Hills Oakland County

Michigan

RN
28-2013

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SCALE: 1"=60'-0"

NOTES:

Deciduous Shade Trees Ornamental Trees

Shrubs Wetland Seed Mix

NOTES:

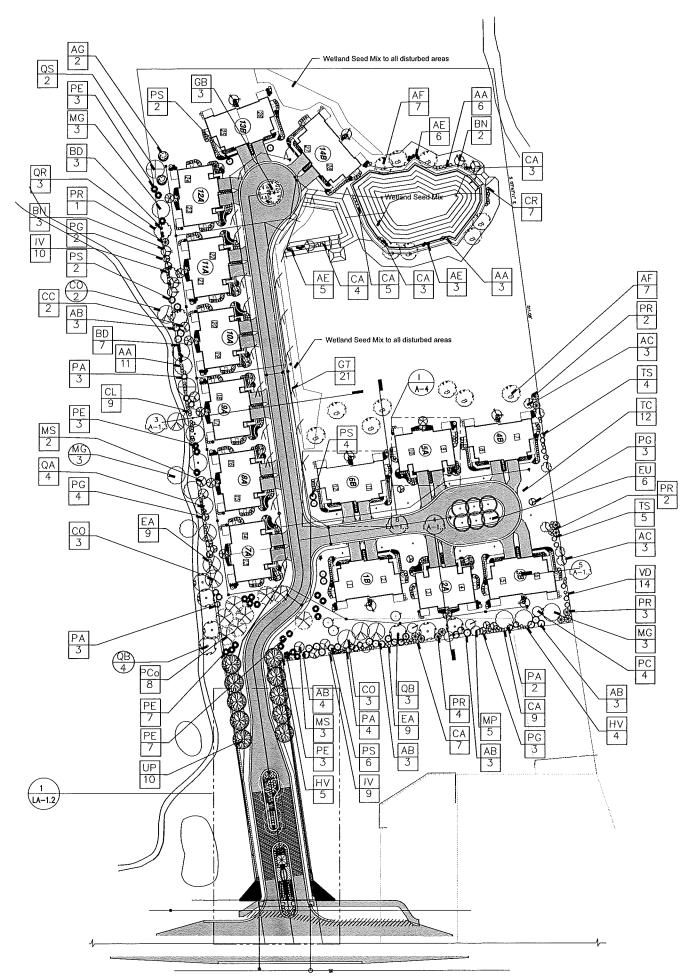
TREE SURVEY TOTAL # OF TAGGED TREES: TOTAL # OF ASH TREES TOTAL # OF POOR CONDITION TREES TOTAL # OF OFFSITE TREES TOTAL # OF REGULATED TREES TOTAL # OF REGULATED TREES TOTAL # OF TREES TO BE SAVED TOTAL # OF TREES TO BE REMOVED

IRRIGATION SYSTEM AND LANDSCAPE COST ESTIMATE FOR THE LANDSCAPE PLAN WILL BE PROVIDED IN THE FINAL LANDSCAPE REVIEW.

TOTAL # OF REPLACEMENT TREE CREDITS REQUIRED TOTAL # OF TREE CREDITS PROVIDED = 160

*TREES WITHIN THE WETLAND AREA WERE NOT TAGGED DUE TO LIMITED ACCESSIBILITY

IN THE NORTHEAST CORNER OF THE SITE, WHICH WILL BE PRESERVED. An estimate of trees was done for the northeastern portion of the site.







QTY.	SIZE	BOTANICAL / COMMON NAME	ROOT	
Tree	s			
14	3" cal	Acer x freemanii 'Celzam' / Autumn Blaze Maple	B&B	
8	3" cal	Celtis occidenttalis / Common Hackberry	B&B	off site
6	3" cal	Eucommia ulmoides / Hardy Rubber Tree	B&B	
3	3" cal	Ginkgo biloba 'Autumn Gold' / Autumn Gold Maidenhair Tree	B&B	
21	3" cal	Gleditsia t. inermis 'Skycole' / Skyline Honey Locust	B&B	
9	3" cal	Metasequoia glyptostroboides / Dawn Redwood	B&B	off site
8	6" cal	Platanus x acerifolia 'Columbia' / Columbia London Plane Tree	B&B	entry
4	3" cal	Quercus alba / White Oak	B&B	
7	3" cal	Quercus bicolor / Swamp White Oak	B&B	off site
3	3" cal	Quercus rubra / Red Oak	B&B	
2	3" cal	Quercus shumardii / Shumard Oak	B&B	
12	3" cal	Tilia cordata 'Corzam / Corzam Linden	B&B	
10	3" cal	Ulmus x 'Pioneer' / Pioneer Elm	B&B	entry
reen 1	frees			
		Abies concolor / Concolor White Fir	B&B	
	-	- · ·		
	-			
9	iont, 5'sp	I suga canadensis / Canadian Hemiock	BAB	
		· · · · · · · · · · · · · · · · · · ·		
		•	B&B	
		•	B&B	
		-		
			l .	
			1	
4	2" cal	Pyrus c. 'Cleveland Select' / Cleveland Select Pear	B&B	
s				
20	30"ht, 24" sp	Aronia arbutifolia 'Brilliantissima' / Brilliant Red Chokeberry	Cont.	
14	30"ht, 24" sp	Aronia melanocarpa elata / Glossy Black Chokeberry	Cont.	
10	30"ht, 24" sp	Buddleia d. 'Sun Gold' / 'Sun Gold' Butterfly Bush	Cont.	
31	30"ht, 24" sp	Cornus alba 'Regnzam' / Red Grome Dogwood	Cont.	
9	30"ht, 24" sp	Clethra a. 'Ruby Spice' / Ruby Spice Summersweet	Cont.	
7	30"ht, 24" sp	Cornus racemosa / Gray DogwoodRed Chokeberry	Cont.	
18			Cont.	
9			Cont.	
19		_ _	Cont.	
14			Cont.	
	terials			
+/-		Topsoil Installed	CY	
+/-		Shredded Hardwood Mulch Installed	CY	
+/-		Terra Sorb or Approved Equal	LBS	
+/-		Seed	SF	
+/-		Sod (owner's option)	SY	
a da				
nds		Wetlands Seed Mix	LBS	
+/-				
	e: Tree 14 8 6 3 21 9 8 4 7 3 2 12 10 16 12 12 12 23 9 mental 6 2 5 5 4 10 31 9 7 18 9 19 14 hr, -+/- +/- +/- +/- +/- +/- +/- +/- +/- +/	e Trees 14 3" cal 8 3" cal 6 3" cal 3 3" cal 21 3" cal 9 3" cal 8 6" cal 4 3" cal 7 3" cal 2 3" cal 12 3" cal 10 3" cal 12 3" cal 10 3" cal 11 5" cal 10 3" cal 11 6" cal 11 7" cal 11 7" cal 12 10"ht, 5"sp 12 10"ht, 5"sp 13 10"ht, 5"sp 14 10"ht, 5"sp 15 10"ht, 5"sp 16 2" cal 17 cal 18 2" cal 29 20 30"ht, 24" sp 20 30"ht, 24" sp 20 30"ht, 24" sp 21 30"ht, 24" sp 22 30"ht, 24" sp 23 30"ht, 24" sp 24 30"ht, 24" sp 25 30"ht, 24" sp 26 30"ht, 24" sp 27 30"ht, 24" sp 28 30"ht, 24" sp 29 30"ht, 24" sp	2 Trees 14 3° cal Acer x freemanii 'Celzam' / Autumn Blaze Maple 3 3° cal Celtis occidentalis / Common Hackberry 6 3° cal Eucommia ulmoides / Hardy Rubber Tree 3 3° cal Ginkgo biloba 'Autumn Gold' / Autumn Gold Maidenhair Tree 21 3° cal Gleditsia t. inermis 'Skycole' / Skyline Honey Locust 9 3° cal Metasequola glyptostroboides / Dawn Redwood 8 6° cal Platanus x acerifolia 'Columbia' / Columbia London Plane Tree 4 3° cal Quercus alba / White Oak 7 3° cal Quercus bicolor / Swamp White Oak 2 3° cal Quercus shumardii / Shumard Oak 12 3° cal Quercus shumardii / Shumard Oak 12 3° cal Quercus shumardii / Shumard Oak 13 3° cal Quercus shumardii / Shumard Oak 14 3° cal Ulimus x 'Pioneer' / Pioneer Elm 16 10°ht, 5'sp 17 10°ht, 5'sp 18 Abies concolor / Concolor White Fir 19 10°ht, 5'sp 10 10°ht, 5'sp 11 10°ht, 5'sp 12 10°ht, 5'sp 13 10°ht, 5'sp 14 10°ht, 5'sp 15 2° cal Amelanchier canadensis / Shadblow Serviceberry 16 2° cal Amelanchier canadensis / Cruzam' / Cruzam Hawthorn 17 2° cal Betula nigra / River Birch 18 2° cal Malus 'Snowdrift' / Snowdrift Crab 19 2° cal Malus 'Snowdrift' / Snowdrift Crab 20 30°ht, 24° sp	Trees

REPLACEMENT TREE CREDIT TABLE

Replacement Credits

1 Credit

1.5 Credits

2 Credits

3 Credits

4 Credits

1 Credit

1,5 Credits

2 Credits

3 Credits

4 Credits

Tree Type and Size

2" Caliper Shade Tree

3" Caliper Shade Tree

4" Caliper Shade Tree

6" Caliper Shade Tree

8' Evergreen Trees

9' Evergreen Trees

10' Evergreen Trees

12' Evergreen Trees

14' Evergreen Trees

2.5" Caliper Shade Tree

NOTES:

REVIEW.

IRRIGATION SYSTEM AND LANDSCAPE COST

ESTIMATE FOR THE LANDSCAPE PLAN WILL

BE PROVIDED IN THE FINAL LANDSCAPE

WETLAND SEED MIX -

For Impacted Wetland Areas) Northeast Wetland Forest Herb Hix Code: STCMX-11 \$160.00 Per Pound

pound will cover 14,500 sq. ft. @ 90+ seeds per sq.

This rik is intended to odd diversity to the herbaceous layer of forested wetland plantings. Twenty nine species connonly found in various wetland forest habitats are included; shade tolerant forest floor species typical of floodplains are well represented. Species have been selected that do planted trees and shrubs. The grasses and foreis in this rik will shade the soil surface, provide enhanced diversity, and yield important wildlife habitat early in the development of the forest system. The rik is produced using hand collected seed from vestern laying hand collected seed from vestern later and an area of the forest system. The rik is produced using hand collected seed from vestern later and the system of the forest system. The rik is produced using hand collected seed from vestern later and the system of the forest system. The rik is produced using hand collected seed from vestern later and the system of the forest system of the forest system.

Percent by No. of seeds (not welght) Sclentific Name

nt) Scientific Nane

N Scirpus atrovirens
N Scirpus cyperinus
N Scirpus cyperinus
N Scirpus cyperinus
N Carex vulpinoldea
N Gyeria grandis
N Gyeria nelicaria
N Solidago gigantea
N Solidago gigantea
N Solidago rugosa
N Cinna arundinacea
N Solidago rugosa
N Cinna arundinacea
N Solidago rugosa
N Cinna orundinacea
N Eleman rugosa
N Solidago rugosa
N Solidago rugosa
N Solidago
N Rubus allegherlensis
N Carex lupulina

Connon Nane

Cornon Nane
Green Bulrush
Vool Grass
Fox Sedge
Fox Sedge
Fox Sedge
Fox Sedge
Fox Sedge
Fox Sedge
Read Headaugrass
Fox Hannagrass
Bertongue
Vitte Vervain
Helic Hannagrass
Stinging Nettle
Glant Goldernad
Vood Reed
Virlaked Goldernad
Vood Reed
Witterpass
Buttanbush
Water Parsnip
Virginia Vid Rye
Fornsylvania Smartwe
Large-Leaf Avens
Riverbank Vid Rye
Vater Back
Vater Back
Sedge
Turk's Cap LRy
Blackberry
Hop Sedge

DesignTeam +

P; 248, 559, 1000

Shadow Pines L.L.C. 14955 Technology Dr. Shelby Township, MI 48315

PH: 586.219.2212

Villas at Shadow Pines Rochester Hills Oakland County Michigan

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Checked/Approve	d RN
Job #	28-2013
File	
Date/Revisions	Issued For
2/3/2014	Preliminary PUD Review
3/4/2014	Pretirningry PUD Revision

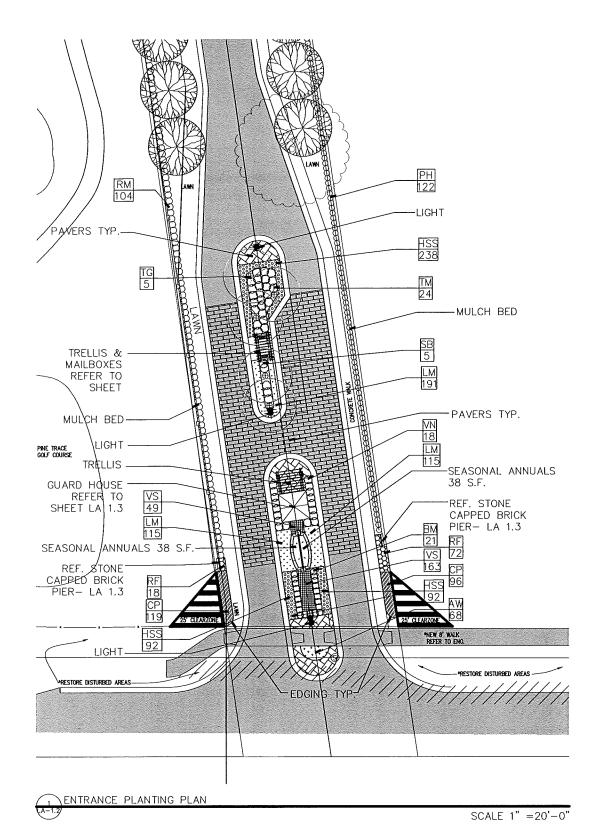
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SCALE: 1"=60'-0"

Overall Landscape Plan

LA-1.1



ENTRANCE PRELIMINARY PLANT MATERIAL SCHEDULE:

тот.	QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
ORNA	MENTA	AL TRE	E			
	5	TG	Tilia cordata "Greenspire"	Greenspire Linden	4" Cal.	B&B
SHRU	BS					
	21	вм	Buxus Microphylla 'Wintergreen'	Wintergreen Littleleaf Boxwood	24° Ht.	Cont.
	122	PH	Pennisetum Alopecuroides 'Hamelin'	'Hamlin' Dwarf Fountain Grass	24" Ht.	Cont.
	5	SB	Spiraea x b. 'Anthony Waterer'	Anthony Waterer Spiraea	30" Ht.	Cont.
	24	TM	Taxus x Media 'Everlow'	Everlow Yew	24" Sp.	Cont.
	18	VN	Viburnum Opulus 'Nanum'	Dwarf European Cranberrybush	24" Ht.	Cont.
	104	RM	Rosa 'Meivahyn'	Knockout Rose	24" Ht.	Cont.
PERE	NNIALS	3				
	68	AW	Aster 'Wood's Light Blue	'Wood's Light Blue' Aster	12" O.C.	1 Gal. Con
	215	CP	Carex Pennsylvania	Pennsylvania Sedge	12" O.C.	1 Gal. Con
	422	HSS	Heuchera "Silver Scrolls"	Little Princess Spiraea	18" O.C.	1 Gal. Con
	421	LM	Liriope Muscari 'Big Blue'	'Big Blue' Lily-Turf	12" O.C.	1 Gal. Con
	90	RF	Rudbeckia Fulgida 'Goldsturm'	Black Eyed Susan	18" O.C.	1 Gal. Con
	212	VS	Veronica Spicata 'Red Fox'	Red Fox Veronica	10" O.C.	1 Gal. Con
ANNU	IALS					
	76		Seasonal Plantings- To be determined		12" O.C.	1 Gal. Con
MATE	RIALS					
	+/-		Mulch (To Be Determined By Contractor)			CY
	+/-		Plant Mix (To Be Determined By Contractor)			CY
	+/-		Terra Sorb (Or Approved Equal)			LBS
	+/-		Edging			LF
	+/-		Pavers - Unilock Hollandstone Color: Sandstone			SF
_AWN	l					
	+/-		Seed			SF
	+/-		Sod (owner's option)			CY





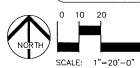
DesignTeam + 975 E. Maple Road, Suite 210 Bkmingham, Michigan 48009

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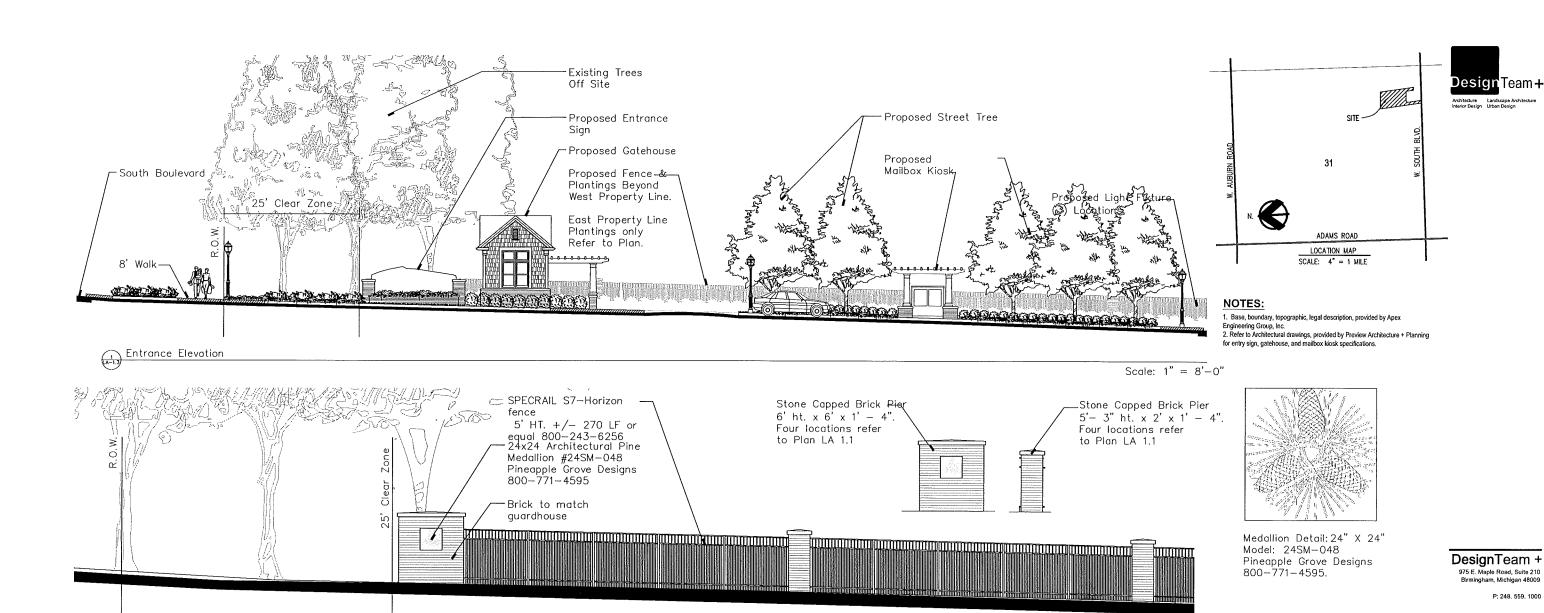
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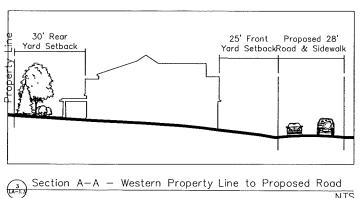
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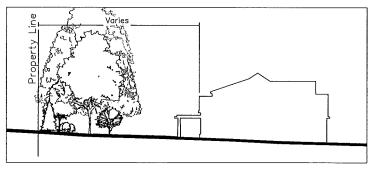


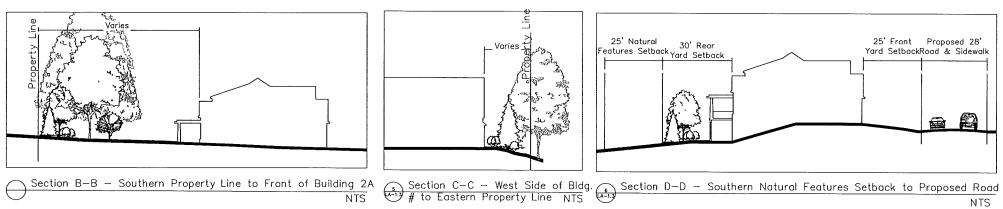
Entrance Landscape Plan

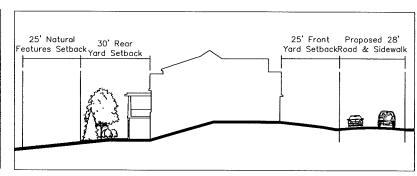




Decorative Fence Elevation







Scale: 1'' = 4'-0''

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BEFORE YOU DIG CALL MISS DIG 1-800-482-7171

Entrance Elevation & Cross Sections

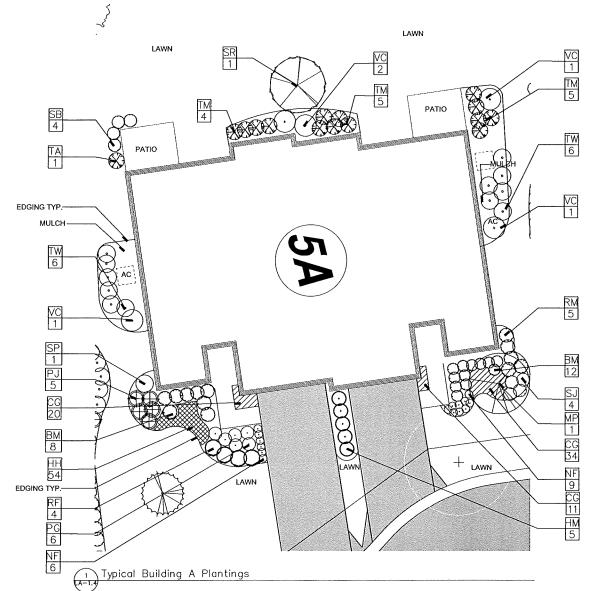
Shadow Pines L.L.C. 14955 Technology Dr.

Shelby Township, MI PH: 586.219.2212

Villas at Shadow Pines Rochester Hills

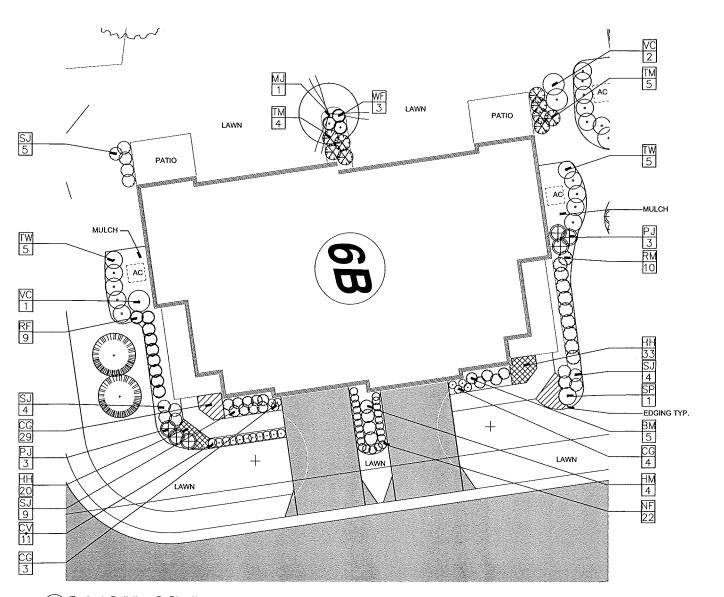
Oakland County

Michigan



TYPICAL BUILDING "A" PRELIMINARY PLANT MATERIAL SCHEDULE:

TOT.	QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
ORNAI	MENTA	AL TRE	E			
	1	MP	Malus 'Prairifire'	Prairifire Crab	2" Cal.	B&B
	1	SR	Syringa reticulata 'Ivory Silk'	Ivory Silk Tree Lilac	2" Cal.	B&B
SHRUE	BS					
	20	BM	Buxus Microphylla 'Wintergreen'	Wintergreen Littleleaf Boxwood	24" Ht.	Cont.
	5	HM	Hydrangea m. 'Glowing Embers'	Glowing Embers Hydrangea	24" Ht.	Cont.
	6	PG	Potentilla fruticosa 'Goldfinger'	Goldfinger Potentilla	24" Ht.	Cont.
	5	PJ	Pieris japonica	Japanese Andromeda	24" Ht.	Cont.
	4	RF	Rosa The Fairy	The Fairy Rose	24" Ht.	Cont.
	5	RM	Rosa 'Meivahyn'	Knockout Rose	24" Ht.	Cont.
	4	SB	Spiraea x b. 'Anthony Waterer'	Anthony Waterer Spiraea	30" Ht.	Cont.
	4	SJ	Spiraea japonica 'Little Princess'	Little Princess Spiraea	24" Ht.	Cont.
	1	SP	Syringa patula 'Miss Kim'	Miss Kim Lilac	30" Ht.	Cont.
	1	TA	Thuja occidentalis 'Wintergreen'	Wintergreen Arborvitae	30" Ht.	Cont.
	14	TM	Taxus x media 'Everlow'	Everlow Yew	24" Sp.	Cont.
	12	TW	Taxus x media 'Wardii'	Wards Yew	24" Ht.	Cont.
	5	VC	Viburnum Carlesii	Korean Spice Viburnum	24" Sp.	Cont.
PERE	NNIAL	S				
	65	CG	Coreopsis grandiflora 'Early Sunrise'	Early Sunrise Coreopsis	18" Ht.	Cont.
	54	HH	Hemerocallis 'Happy Returns'	Happy Returns Daylilly	18" Ht.	Cont.
	15	NF	Nepeta faassenii 'Walker's Low'	Walker's Low Catmint	18" Ht.	Cont.
MATE	RIALS					
	+/-		Mulch (To Be Determined By Contractor)			CY
	+/-		Plant Mix (To Be Determined By Contractor)			CY
	+/-		Terra Sorb (Or Approved Equal)			LBS
	+/-		Edging			LF
LAWN	+/-		Pavers - Unilock Hollandstone Color: Sandstone			SF
LAVIN	+/-		Seed			SF
	+/-		Sod (owner's option)			CY



Typical Building B Plantings

TYPICAL BUILDING "B" PRELIMINARY PLANT MATERIAL SCHEDULE:

TOT.	QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
ORNA	MENT	AL TRE	E			
	1	MJ	Maius 'Jewelcole'	Red Jewel Crab	2* Cal.	B&B
SHRU	BS					
	5	вм	Buxus Microphylla 'Wintergreen'	Wintergreen Littleleaf Boxwood	24" Ht.	Cont.
	4	HM	Hydrangea m. 'Glowing Embers'	Glowing Embers Hydrangea	24" Ht.	Cont.
	6	ΡJ	Pieris japonica	Japanese Andromeda	24" Ht.	Cont
	9	RF	Rosa 'The Fairy	The Fairy Rose	24" Ht.	Cont
	10	RM	Rosa 'Meivahyn'	Knockout Rose	24" Ht.	Cont.
	22	SJ	Spiraea japonica 'Little Princess'	Little Princess Spiraea	24" Ht.	Cont.
	1	SP	Syringa patula 'Miss Kim'	Miss Kim Lilac	30" Ht.	Cont.
	9	TM	Taxus x media 'Everlow'	Everlow Yew	24" Sp.	
	10	TW	Taxus x media 'Wardii'	Wards Yew	24" Ht.	Cont.
	3	VC	Viburnum Carlesii	Korean Spice Viburnum	5' Ht.	Cont.
	3	WF	Weigela florida 'Minuet'	Minuet Weigela	24" Ht.	Cont.
PERE	NNIAL	S				
	36	CG	Coreopsis grandiflora 'Early Sunrise'	Early Sunrise Coreopsis	18" Ht.	Cont.
	11	CV	Coreopsis verticillata 'Moonbeam'	Moonbeam Coreopsis	18" Ht.	Cont
	53	HH	Hemerocallis 'Happy Returns'	Happy Returns Daylilly	18" Ht.	Cont
	22	NF	Nepeta faassenii 'Walker's Low'	Walker's Low Catmint	18" Ht.	Cont
MATE	RIALS					
	+/-		Mulch (To Be Determined By Contractor)			CY
	+/-		Plant Mix (To Be Determined By Contractor)			CY
	+/-		Terra Sorb (Or Approved Equal)			LBS
	+/-		Edging			LF
	+/-		Pavers - Unilock Hollandstone Color: Sandstone			SF
LAWN						
	+/-		Seed			SF
	+/-		Sod (owner's option)			CY

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ent
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14955 Technology Dr.
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48315
PH: 586.219.2212

Project

Villas at Shadow Pines Rochester Hills Oakland County Michigan

evergreen vegetation. Locations may vary and need to be field adjusted.

BEFORE YOU DIG CALL MISS DIG 1-80-42-777 (cma. retr)

0 5 10 20

Plant locations are typical and may need to be field adjusted per building locations.

 Air conditioning units to be

NOTES:

SCALE: 1"=10'-0"

Unit Landscape Plan

3/4/2014 Presmody POU Revision

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ΙΔ-14

PLANTING NOTES:

1. INSTALL AND MAINTAIN ALL LANDSCAPING ACCORDING TO ROCHESTER HILLS STANDARDS. IN CASE OF DISCREPANCY BETWEEN PLAN AND PLANT LIST, THE PLAN SHALL GOVERN QUANTITIES. CONTACT LANDSCAPE ARCHITECT WITH ANY

CONTENTS.

CONTENTS.

2. ALL PLANT MATERIAL TO BE PREMIUM GRADE NURSERY

STOCK. PLANT MATERIAL SHALL CONFORM TO THE GUIDEUNES

ESTABLISHED IN THE MOST RECENT EDITION OF THE AMERICAN

STANDARD FOR NURSERY STOCK. CONTRACTOR TO SUPPLY

NURSERY SOURCES FOR ALL PURCHASED MATERIAL. NO BARE

ROOT OR PARK GRADE MATERIAL WILL BE ACCEPTED.

3. SOD: IF OWNER SELECTS THIS OPTION, CONTRACTOR WILL

INSTALL SOD IN ALL AREAS INDICATED AS LAWN ON PLAN. SOD

TO BE WELL ESTABLISHED, MIMERAL GROWTH. SOD BLEND

SHALL CONSIST OF A MINIMUM OF THESE (3) IMPROVED.

TO BE WELL ESTABLISHED, MINERAL GROWITH. SOD BLEND SHALL CONSIST OF A MINIMUM OF THREE (3) IMPROVED VARIENTES OF BLUEGRASS, ACCEPTANCE AND GUARANTEE NOTES SHALL APPLY TO ALL SOD.

4. EDGING SHALL BE A SHOVEL EDGE.

5. ALL TREE PITS MUST BE TESTED FOR PROPER DRAINAGE PRIOR TO PLANTING TREES. A DRAINAGE SYSTEM MUST BE INSTALLED IF PLANTING PIT DOES NOT DRAIN SUFFICIENTLY (REQUIRED IN HEAVY CLAY SOLLS).

6. ALL LANDSCAPE AREAS SHALL HAVE PROPER DRAINAGE THAT PREVENTS EXCESS WATER FROM STANDING ON LAWN AREAS OR AROUND TREES AND SKRUBS.

7. STAKES USED FOR TREE SUPPORTS SHALL POINT AWAY FROM ANY CIRCULATION ROUTES.

8. MULCHING AND WATERING OF ALL PLANTS AND TREES SHALL BE IMMEDIATELY OR WITHIN 16 HOURS AFTER INSTALLATION.

9. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO

9. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL NOT MEETING SPECIFICATIONS.

10. REMOVE ALL TREE STAKES AND GUY WIRES AFTER ONE

11. USE GRADE "A" DOUBLE SHREDDED HARDWOOD BARK. 12. DIG SHRUB PITS 1' LARGER THAN SHRUB ROOT BALLS AND 12. DIG SHRUB PITS 1' LARGER THAN SHRUB ROOT BALLS AND TREE PITS 2' LARGER THAN ROOT BALLS. BACK FILL WITH ONE PART TOPSOIL AND ONE PART SOIL FROM THE EXCAVATED PLANTING HOLE. PLANT TREES AND SHRUBS AT THE SAME GRADE LEVEL AT WHICH THEY WERE PLANTED AT THE NURSERY. IF WET, CLAY SOILS ARE EVIDENT, PLANT TREES AND SHRUBS HIGHER.

13. REMOVE ALL TWINE, WIRE, AND BURLAP FROM THE TOP 1/3 OF TREE AND SHRUB EARTH BALLS AND FROM TREE TRUNKS.

14. LAWN TREES ARE TO BE MUICHED WITH A MINIMUM OF 4' 14. LAWN INCES ARE TO BE MOLCHED WITH A MINIMUM OF 4 WIDE BY 4 DEEP SHREDDED BARK FOR TRUNK PROTECTION. ONLY NATURAL—COLORED SHREDDED HARDWOOD BARK MULCH MILL BE ACCEPTED.

15. SHRUB BEDS ARE TO BE MULCHED WITH SHREDDED BARK SHRUB BEDS ARE TO BE MULCHED WITH SHREDDED BARK.

15. SHRUB BEDS ARE TO BE MULCHED WITH SHREDDED BARK MULCH TO A MINIMUM DEPTH OF 4". ONLY NATURAL—COLORED SHREDDED HARDWOOD BARK MULCH WILL BE ACCEPTED. 16. BACKFILL DIRECTLY BEHIND ALL CURBS AND ALONG SIDEWALKS AND COMPACT TO THE TOP OF CURB OR WALK TO SUPPORT VEHICLE AND PEDESTRIAN WEIGHT WITHOUT SETTLING. 17. ALL LANDSCAPE AREAS, SPECIAL PARKING LOT ISLANDS AND LANDSCAPE AREAS, SPECIAL PARKING LOT ISLANDS AND LANDSCAPE BEDS NEXT TO BUILDINGS SHALL BE EXCAVATED OF ALL BUILDING MATERIALS AND POOR SOLIS TO TEXTURED PLANTING SOIL (LOAM OR LIGHT YELLOW CLAY). ADD 4"-6" OF TOPSOIL OVERFILL MATERIAL AND CROWN A MINIMUM OF 6" ABOVE TOP OF CURBS AND/OR WALKS AFTER EARTH SETTLING UNLESS OTHERWISE NOTED ON THE LANDSCAPE PLAN.

LANDSCAPE PLAN.

18. CONVERSION OF ALL ASPHALT AND GRAVEL AREAS TO LANDSCAPE SHALL BE DONE IN THE FOLLOWING MANNER:

A REMOVE ALL ASPHALT, GRAVEL AND COMPACTED EARTH TO A DEPTH OF 6"-18" DEPENDING ON THE DEPTH OF THE SUB-BASE AND DISPOSE OF OFF SITE.

B. REPLACE EXCAVATED MATERIAL WITH GOOD, MEDIUM

TEXTURES PLANTING SOIL (LOAM OR LIGHT YELLOW CLAY) TO A MINIMUM OF 2" ABOVE TOP F CURB AND SIDEWALK, ADD 4"-6"
OF TOPSOIL AND CROWN TO A MINIMUM OF 6" ABOVE
ADJACENT CURB AND WALK AFTER EARTH SETTLING UNLESS
OTHERWISE NOTED ON THE LANDSCAPE PLAN. F CONVERSION TO LANDSCAPE OCCURS IN AN EXISTING (OR

BETWEEN) LANDSCAPE AREA(S), REPLACE EXCAVATED MATERIAL TO 4"-6" BELOW ADJACENT EXISTING GRADES WITH GOOD MEDIUM TEXTURED PLANTING SOIL (LOAM OR LIGHT YELLOW MEDIUM TEXTURED PLANTING SOIL (LOAM OR LIGHT YELLOW CLAY) AND ADD 4"-6" OF TOPSOIL TO MEET EXISTING GRADES AFTER EARTH SETTLING.

19. ALL PLANT MATERIAL TO RECEIVE TERRA-SORB SUPER ABSORBENT POLYMER OR APPROVED EQUAL BY LANDSCAPE ARCHITECT, FOLLOW MANUFACTURER'S SPECIFICATIONS.

RESPONSIBILITY NOTES

1. LANDSCAPE CONTRACTOR SHALL VISIT SITE, INSPECT EXISTING CONDITIONS AND REVIEW PROPOSED PLANTING AND RELATED WORK. IN CASE OF DISCREPANCY BETWEEN PLAN AND PLANT LIST, THE PLAN SHALL GOVERN QUANTITIES. CONTACT LANDSCAPE ARCHITECT WITH ANY CONCERNS 2. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL ON-SITE UTILITIES PRIOR TO BEGINNING CONSTRUCTION ON HIS/HER PHASE OF WORK. ELECTRIC, GAS, TELEPHONE, CABLE TELEVISION MAY BE LOCATED BY CALLING MISS DIG 1-800-482-7171. ANY DAMAGE OR INTERRUPTION OF SERVICES SHALL BE THE RESPONSIBILITY OF CONTRACTOR. CONTRACTOR SHALL COORDINATE ALL RELATED ACTIVITIES WITH OTHER TRADES ON THE JOB AND SHALL REPORT ANY LINACCEPTABLE. JOB CONDITIONS TO OWNERS! SEPRESENTATIVE ANY UNACCEPTABLE JOB CONDITIONS TO OWNER'S REPRESENTATIVE

PRIOR TO COMMENCING.

3. CONTRACTOR WILL SUPPLY FINISHED GRADE AND EXCAVATE AS NECESSARY TO SUPPLY 4" TOPSOIL DEPTH IN ALL PLANTING BEDS AND 4" TOPSOIL DEPTH IN ALL LAWN AREAS USING MATERIAL FROM SPOIL PILE.

4. ACCEPTANCE OF GRADING AND SOD SHALL BE BY THE

4. ACCEPTANCE OF GRADING AND SOD SHALL BE BY THE LANDSCAPE ARCHITECT AND/OR PROJECT REPRESENTATIVE AND AS DETERMINED BY THE CITY. THE CONTRACTOR SHALL ASSUME MAINTENANCE RESPONSIBILITY FOR A MINIMUM OF TWO (2) YEARS. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, REPLACEMENTS OF WASHOUTS AND OTHER OPERATIONS NECESSARY TO KEEP SOD IN A THRIWING CONDITION. UPON FINAL ACCEPTANCE BY LANDSCAPE ARCHITECT AND/OR PROJECT REPRESENTATIVE AND AS DETERMINED BY THE CITY. THE OWNER SHALL ASSUME ALL MAINTENANCE RESPONSIBILITIES.

MAINTENANCE RESPONSIBILITIES.
5. THE CONTRACTOR SHALL GUARANTEE ALL LANDSCAPING FOR A 5. THE CUNTRACTOR SHALL GUARANTE, ALL LANDSCAPING FOR PERIOD OF TWO (2) YEARS BEGINNING AFTER APPROVAL BY THE CITY OF ROCHESTER HILL'S LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL REPLACE DURING AND AT THE END OF THE GUARANTEE PERIOD, ANY DEAD OR UNACCEPTABLE PLANTS, AS DETERMINED BY THE CITY OF ROCHESTER HILL'S LANDSCAPE ARCHITECT, MITHOUT COST TO THE OWNER. 6. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON LANDSCAPE PLAN PRIOR TO PRICING THE WORK.

CITY GENERAL NOTES

1. ALL PLANT MATERIAL SHALL MEET CURRENT STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN AND APPROVED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE; INC.

2. ALL PLANT MATERIAL SHALL BE TRUE TO NAME IN CONFORMANCE TO THE CURRENT EDITION OF STANDARDIZED PLANT NAMES ESTABLISHED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE, OR OTHER SOURCE ACCEPTED BY THE CITY.

3. ALL PLANT MATERIAL SHALL B E NURSERY GROWN IN A NORTHERN CLIMATE; HARDY TO THE CLIMATE OF MICHIGAN; APPROPRIATE FOR THE SOIL; CLIMATIC AND ENVIRONMENTAL CONDITIONS; AND RESISTANT TO DISCASE AND INSECT ATTACK.

4. A MINIMUM FOUR (4) INCHES OF TOPSOIL SHALL BE

4. A MINIMUM FOUR (4) INCHES OF TOPSOIL SHALL BE PROVIDED FOR ALL LAWN AREAS, GROUND COVERS, AND

PROVIDED FOR ALL LAWN AREAS, GROUND COVERS, AND PLANTING BEIDS.

S. ARTIFICIAL. PLANT MATERIAL IS PROHIBITED AND SHALL NOT BE USED TO MEET THE REQUIREMENTS OF THIS ARTICLE.

6. LAWN AREAS SHALL BE PLANTED IN SPECIES OF GRASS NORMALLY GROWN IN MICHIGAN. GRASS MAY BE SODDED OR HYDRO-SEEDED, PROVIDED THAT ADEQUATE MEASURES ARE TAKEN TO MINIMIZE SOIL EROSION, SOO OR SEED SHALL BE CLEAN AND FREE OF WEEDS AND NOXIOUS PESTS OR DISEASE.

7. A MINIMUM 4-INCH LAYER OF SHREDDED HARDWOOD BARK SHALL BE PLACED IN ALL PLANTER BEDS CONTAINING TREES OR SHRUBS AND AROUND THE BASE OF ALL TREES PLANTED WITHIN LAWN AREAS. ALL SHRUBS PLANTED WITHIN LAWN AREAS.

ARE TO BE PLANTED IN GROUPS AND MULCHED AS A GROUP, AND HEDGEROWS ARE TO BE MULCHED AS ONE CONTINUOUS STRIP.

8. LIVE GROUNDCOVERS SUCH AS MYRTLE, BLUE RUG

8. LIVE GROUNDCOVERS SUCH AS MYRTE. BLUE RUG
JUNIPERS, BALTIC IVY AND OTHER SIMILAR VINES AND PLANT
MATERIAL SHALL BE MULCHED WITH A 2—INCH LAYER OF
SHREDDED HARDWOOD BARK. ANY DEVATIONS MUST BE
APPROVED BY THE CITY'S LANDSCAPE ARCHITECT.
9.PLANT MATERIALS SHALL NOT BE PLACED CLOSER THAN FOUR
FEET FROM THE FENCE LINE OR PROPERTY LINE.
10. DECIDIOUS AND ALL SHRUBS MAY NOT BE PLANTED WITHIN
5 FEET, AND EVERGREEN TREES MAY NOT BE PLANTED WITHIN
15 FEET, GEARLY CLIPPE OR PUBBLIC WALKWAY. TEN (10) FEET OF ANY CURB OR PUBLIC WALKWAY. TREES AND SHRUBS MAY NOT BE PLANTED WITHIN 10 FEET OF A FIRE HYDRANT.

OF A FIRE HYDRANT.

12. WHERE PLANT MATERIALS ARE PLANTED IN TWO OR MORE ROWS, PLANTING SHALL BE STAGGERED IN ROWS.

13. WHERE SHRUB PLANTINGS ARE REQUIRED TO FORM A CONTINUOUS HEDGE, THE PLANTS SHALL NOT BE SPACED OUT MORE THAN 36 INCHES ON CENTER AT PLANTING AND SHALL HAVE A MINIMUM HEIGHT AND SPREAD OF 30 INCHES AT PLANTING, SHRUBS THAT WILL NOT ATTAIN SUFFICIENT WIDTH TO FORM A COMPLETE HEDGE SPACED 36 INCHES ON CENTER SHALL BE PLANTED AT A SPACING THAT WILL ALLOW THEM TO FORM A COMPLETE HEDGE WITHIN TWO YEARS OF PLANTING.

LANDSCAPING NOTES

1. PRIOR TO THE RELEASE OF THE PERFORMANCE BOND, THE CITY OF ROCHESTER HILLS MUST INSPECT ALL LANDSCAPE PLANTING INCLUDING BUIT NOT LIMITED TO EXISTING TREES, REPLACEMENT TREES, BUFFER PLANTINGS, AND PARKING LOT ISLANDS. THE RICHT-OF-WAY WILL BE INSPECTED BY THE FORESTRY DIVISION TO IDENTRY ANY PLANTINGS NEW OR EXISTING THAT POSE A HAZARD TO THE SAFE USE OF THE RICHT-OF-WAY. FORESTRY MAY REQUIRE THE DEVELOPER TO REMOVE AND POSSIBLY REPLACE ANY SUCH TREES.

2. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF THE PUBLIC RO.W.. SHADE TREES AND SHRUBS MUST BE PLANTED AT LEAST 5' FROM THE EDGE OF THE PUBLIC WALKWAY. EVERGREEN AND ORNAMENTAL TREES MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF THE PUBLIC WALKWAY. EVERGREEN AND ORNAMENTAL TREES MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF THE PUBLIC WALKWAY. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM THE FDGE OF THE PUBLIC WALKWAY. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM ANY FIRE HYDRANT. SHADE AND EVERGREEN TREES MUST BE PLANTED AT LEAST 15' FROM THE 1. PRIOR TO THE RELEASE OF THE PERFORMANCE BOND. THE

EVERGREEN TREES MUST BE PLANTED AT LEAST 15' FROM THE EVERGREEN TREES MUST BE PLANTED AT LEAST 15' FROM THE NEAREST OVERHEAD WIRE AND AT LEAST 10' FROM THE NEAREST UNDERGROUND UTILITY.

3. NO TREES OR SHRUBS MAY BE, PLANTED WITHIN THE TRIANGULAR AREA FORMED AT THE INTERSECTION OF ANY STREET RIGHT—OF—WAY AT A DISTANCE OF 25' FROM THEIR POINT OF INTERSECTION. NO TREES OR SHRUBS MAY BE PLANTED IN THE TRANGULAR AREA FORMED AT THE INTERSECTION OF ANY DRIVEWAY WITH A PUBLIC WALKWAY AT A DISTANCE ALONE GRAUL HIS GOT, IS' SEONLY THE BOOMY OF

A DISTANCE ALONG EACH LINE OF 15' FROM THEIR POINT OF

A DISTANCE ALONG EACH LINE OF 15 FROM INTERSECTION.

4. PRIOR APPROVAL IS REQUIRED TO PLANT ANY TREE OR SHRUB IN THE PUBLIC RIGHT-OF-WAY.

5. NO SUBSTITUTIONS OR CHANGES OF LOCATION OR PLANT TYPES SHALL BE MADE WITHOUT THE APPROVAL OF THE DEVELOPER AND THE CITY OF ROCHESTER HILLS.

6. THE DEVELOPER AND/OR THE CITY OF ROCHESTER HILL SHALL HAVE THE RIGHT, AT ANY STAGE OF THE INSTALLATION, TO REJECT ANY WORK OR MATERIAL THAT DOES NOT MEET THE REQUIREMENTS OF THE PLANS OR SPECIFICATIONS.

7. REPLACEMENT TREES MAY NOT BE PLANTED WITHIN THE DOINE LINE OF EXISTING TREES.

8. NO SUBSTITUTIONS OR CHANGES OF LOCATION OR PLANT TYPE SHALL BE MADE WITHOUT THE APPROVAL OF THE DEVELOPER AND THE CITY ROCHESTER HILLS.

9. TREES MUST BE AT LEAST 10' FROM UNDERGROUND UTILITIES AND 15' FROM OVERHEAD UTILITIES.

UTILITIES AND 15' FROM OVERHEAD UTILITIES.

MAINTENANCE NOTES

1. THE CLEAR ZONE SHALL BE MAINTAINED AT ALL
INTERSECTIONS THAT INGRESS AND ECRESS TO THE SITE. IT IS
THE OWNERS RESPONSIBILITY TO MAINTAIN THE PLANT MATERIAL AT A HEIGHT OF NOT OVER THIRTY (30) INCHES ABOVE PAVEMENT AND PROVIDE UNOBSTRUCTED SIGHT DISTANCE FOR DRIVERS IN VEHICLES APPROACHING THE INTERSECTION.

2. VERTICAL CLEARANCE OF AT LEAST EIGHTY (80) INCHES MUST BE PROVIDED ABOVE WALKS AT ALL TIMES. IT IS THE OWNERS RESPONSIBILITY TO MAINTAIN TREES AND OTHER OVERHANGING OBJECTS TO PROVIDE ADEQUATE HEADROOM TO COMPLY WITH ADA GUIDFLINES.

3. ALL IRRIGATION WILL OCCUR BETWEEN THE HOURS OF 12AM

TREE PROTECTION NOTES

THE TREE PROTECTION FENCING (TPF) SHALL BE ERECTED PER THE PLANS APPROVED BY THE CITY OF ROCHESTER HILLS PLANNING DEPARTMENT. TH TPF MUST BE IN PLACE AND BE INSPECTED BY THE CITY OF ROCHESTER HILLS PRIOR TO THE START OF ANY EARTHWORK OR CONSTRUCTION OPERATIONS, IT IS THE DEVELOPER'S RESPONSIBILITY TO CONTACT THE CITY PLANNING DEPARTMENT AT 1-248-656-4660 TO SCHEDULE A TPF INSPECTION. THE TPF SHALL REMAIN IN PLACE THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS OR UNTIL THE CITY AUTHORIZES THE REMOVAL OR ISSUES A FINAL CERTIFICATE OF OCCUPANCY, WHICHEVER OCCURS

2. UPON COMPLETION OF GRADING AND THE INSTALLATION OF THE INFRASTRUCTURE A SECOND INSPECTION OF THE TOP AND THE TREES DESIGNATED FOR PRESERVATION IS REQUIRED BY THE CITY OF ROCHESTER HILLS PRIOR TO THE START OF ANY ADDITIONAL CONSTRUCTION. IT IS THE DEVELOPER'S RESPONSIBILITY TO CONTACT THE CITY PLANNING DEPARTMENT AT 1-248-656-4660 TO SCHEDULE THIS TPE INSPECTION

3. UPON COMPLETION OF ALL CONSTRUCTION AND PRIOR TO THE REMOVAL OF THE CITY OF ROCHESTER HILLS MUST INSPECT ALL TREES DESIGNATED TO BE PRESERVED. THE LANDSCAPE PERFORMANCE BOND WILL NOT BE RELEASED UNTIL THIS INSPECTION IS COMPLETE AND ALL RELATED ISSUES ARE RESOLVED IT IS THE DEVELOPER'S RESPONSIBILITY TO CONTACT 1-248-656-4660 TO SCHEDULE THIS INSPECTION

4. A FINAL INSPECTION BY THE CITY OF ROCHESTER HILLS IS REQUIRED AT THE END OF THE WARRANTY AND MAINTENANCE PERIOD. THE LANDSCAPE MAINTENANCE BOND WILL NOT BE RELEASED UNTIL THIS INSPECTION IS COMPLETE AND ALL RELATED ISSUES ARE RESOLVED. IT IS THE DEVELOPER'S RESPONSIBILITY TO CONTACT THE CITY PLANNING DEPARTMENT AT 1-248-656-4660 TO SCHEDULE

THE TREE CONSERVATION ORDINANCE PROHIBITS ANY CONSTRUCTION OR DEVELOPMENT ACTIVITIES WITHIN THE DRIP LINE OF AND REGULATED TREES NOT APPROVED FOR REMOVAL, INCLUDING BUT NOT LIMITED TO LAND CLEARING, GRUBBING, TRENCHING, GRADING OR FILLING, NO PERSON SHALL PLACE ANY SOLVENTS, BUILDING MATERIALS, CONSTRUCTION EQUIPMENT, SOIL DEPOSITS, OR HARMFUL MATERIALS WITHIN THE DRIP LINE LIMIT OF TREES DESIGNATED FOR PRESERVATION

PROPOSED GRADES ARE TO MATCH THE EXISTING ELEVATIONS OUTSIDE THE LIMITS OF THE TPF. NO GRADING EITHER CUT OR FILL IS PERMITTED WITHIN THE DRIP LINE OF ANY TREE DESIGNATED FOR

DURING THE CONSTRUCTION PROCESS NO PERSON SHALL ATTACH ANY DEVICE OR WIRE/CABLE/CORD/ROPE TO AN EXISTING TREE DESIGNATED TO BE PRESERVED.

ALL LITHITY SERVICE REQUEST MUST INCLUDED NOTIFICATION TO THE INSTALLER THAT PROTECTED
TREES MUST BE AVOIDED. ALL TRENCHING SHALL

9. SWALES SHALL BE ROUTED TO AVOID THE AREA WITHIN THE DRIP LINE OF THE ANY TREE DESIGNATED FOR PRESERVATION. SWALES SHALL BE CONSTRUCTED SO AS NOT TO DIRECT ANY ADDITIONAL FLOW INTO THE DRIP LINE A TREE DESIGNATED FOR PRESERVATION.

10. IF TREE PROTECTION CANNOT BE MAINTAINED FOR A TREE THROUGHOUT ENTIRE PERIOD REQUIRED. THE REPLACEMENT OF THAT TREE WILL BE REQUIRED ON AND INCH FOR INCH BASIS PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

11. REGULATED TREES LOCATED OFF-SITE ON ADJACENT PROPERTIES THAT MAY BE AFFECTED BY CONSTRUCTION OPERATIONS MUST BE PROTECTED AS DEFINED HERE IN.

12. THE TPF SHALL CONSIST OF 4 FOOT HIGH ORANGE SNOW FENCING TO BE INSTALLED AROUND THE DRIP LINE OF ALL TREE DESIGNATED TO BE SAVED. THIS FENCING SHALL BE SUPPORTED BY 6 FOOT METAL T-BAR POSTS 5 FEET ON CENTER AND DRIVEN A MINIMUM OF 24" INTO GROUND. FENCING SHALL REMAIN UPRIGHT AND SECURELY IN PLACE FOR THE REQUIRED TIME AS SPECIFIED



EACH TREE TO RECEME TERRA-SORB SUPERVISORBANT POLYMER, MX IN BACKFIL PER MANUFACTURER'S SPECIFICATIONS.

MULCH
REMOVE BURLAP AND TWINE FROM
TOP 1/3 OF BALL - MOUND TO FORM SAUCER

- STAXES TO EXTEND 18" BELOW TREE
PIT IN UNDISTURBED GROUND DECIDUOUS TREE PLANTING DETAIL

· CONTRACTOR TO VERIFY PERCOLATION OF PLANT PIT PRIOR TO INSTALLATION *TREE SHALL BEAR SAME RELATIONSHIP TO FINISH GRADE AS IT BORE ORIGINALLY PRUNE ONLY TO REMOVE DAMAGED ALL NON-BODECRADABLE MATERIALS TO BE REMOVED FROM ROOT BALL BEFORE PLANTING AND BACKFILLING. PLATING AND ENGRIPPING.

57MET RESETS JUST BELOW FIRST BRANCH
WITH 2"-3" WOE BELT LIKE MYCHOL OR
PLASTIC STRUMS (CONNECT FROM TREE TO
57ME OPPOSITE FROM EACH OTHER AND
ALLDIE FOR SOME "FLESHING", DO NOT USE
WEE OR ROPE THROUGH A HOSE, REMOVE
ATTER FIRST WHITER. REMOVE BURLAP AND THRNE FROM TOP 1/3 OF BALL — NOUND TO FORM SAUCER PRISSI GRADE — PLANTING SOIL MEXTURE - STAKES TO EXTEND 18" BELOW TREE PIT IN UNIOSTURBED GROUND 2 EVERGREEN TREE PLANTING DETAIL

· USE ONLY ONE STAKE FOR TREES UNDER REMOVE ALL TAGS, STRING, PLASTICS AND OTHER MATERIALS THAT ARE UNSIGHTLY AND COULD CAUSE GROUNS. · CONTRACTOR TO VERFY PERCOLATION OF PLANT PIT PRIOR TO INSTALLATION ALL NON-BODEGRADABLE MATERIALS T BE REMOVED FROM THE ROOF BALL BEFORE PLANTING AND BACKFILLING. TREE BULL SHALL BEAR SAME RELATIONSHIP TO FINISH GRADE AS IT BORE ORIGINALLY USE 3 HARDWOOD STAKES PER TREE 2"x2"x8" 2"x2"x8" DRNE STAKES INTO UNDISTURBED SOIL 6-8" OUTSIDE OF ROOTBALL T A DEPTH OF 18" BELDW TREE PIT. "TLEXING"). DO NOT USE WARE OR ROPE THROUGH A HOSE. REMOVE AFTER ONE YEAR. - TREE WRAP FROM TOP DOWN. REMOVE AFTER FIRST WINTER. -REMOVE BURLAP AND TWINE FROM TOP 1/3 OF BALL OUND TO FORM SAUCER

3 ORNAMENTAL TREE PLANTING DETAIL

* EACH SHRUB TO RECEME TERRA-SORB SUPERABSORBANT POLYMER, MIX IN BACKFUL DEB VANAGATIBLES'S EDECADOADOAS CONTRACTOR TO VERFY PERCOLATION OF PLANT PIT PROR TO INSTALLATION. PLANT SHALL BEAR SAME RELATIONSHIP TO FINISH GRADE AS IT BORE ORIGINALLY PRUNE ONLY DEAD OR BROKEN BRAN * ALL NON-BIODEGRABLE WATERWAS TO BE REMOVED BEFORE PLANTING AND BACKFILLING REMOVE COLLAR FROM FIBER CONTAINER
AND PUNCTURE. ALL WETAL CONTAINERS ARE TO BE REMOVED REMOVE BURLAP AND TWNE FROM TOP 1/3 OF BALL PLANT WIXTURE. PLANTING SOIL MIX SCARFY SOIL TO 4" DEPTH AND RECOMPACT

SEE PLANTING MATERIAL NOTES

SHRUB PLANTING DETAIL

SET PLANTS WITH BOTTON LEAVES AT GRADE AFTER MULCHING PLANT TO WITHIN 1 FOOT OF TREE OR SHRUB. 5 ANNUAL, PERENNIAL, GROUND COVER

DETAIL



Birmingham, Michigan 48009 P: 248, 559, 1000

Design Team+

info@designteamplus.com Shadow Pines L.L.C. 14955 Technology Dr Shelby Township, M

PH: 586.219.2212

Villas at Shadow Pines Rochester Hills Oakland County Michigan

RH/MP/BC
RN
28-2013

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SHADOW PINES PLANT LIST.

KEY	QTY.	SIZE	BOTANICAL / COMMON NAME	ROOT
Shad	e Tree	s		
AF	14	3" cal	Acer x freemanii 'Celzam' / Autumn Blaze Maple	B&B
CO	8	3" cal	Celtis occidenttalis / Common Hackberry	B&B
ΕU	6	3" cal	Eucommia ulmoides / Hardy Rubber Tree	B&B
GB	3	3" cal	Ginkgo biloba 'Autumn Gold' / Autumn Gold Maidenhair Tree	B&B
GT	21	3" cal	Gleditsia t. inermis 'Skycole' / Skyline Honey Locust	B&B
MG	9	3" cal	Metasequoia glyptostroboides / Dawn Redwood	B&B
PCo	8	6" cal	Platanus x acerifolia 'Columbia' / Columbia London Plane Tree	B&B
QA	4	3* cal	Quercus alba / White Oak	B&B
QB	7	3" cal	Quercus bicolor / Swamp White Oak	B&B
QR	3	3" cal	Quercus rubra / Red Oak	B&B
QS	2	3" cal	Quercus shumardii / Shumard Oak	B&B
TC	12	3" cal	Tilia cordata 'Corzam / Corzam Linden	B&B
UP	10	3" cal	Ulmus x 'Pioneer' / Pioneer Elm	B&B
	green 1			
AB	16	10'ht, 5'sp	Abies concolor / Concolor White Fir	B&B
PA	12	10'ht, 5'sp	Picea abies / Norway Spruce	B&B
PG	12	10'ht, 5'sp	Picea glauca var. densata / Black Hills Spruce	B&B
PS	14	10'ht, 5'sp	Picea glauca / White Spruce	B&B
PE	12	10'ht, 5'sp	Pinus resinosa / Red Pine	B&B
PE	23	10'ht, 5'sp	Pinus strobus / Eastern White Pine	B&B
TS	9	10'ht, 5'sp	Tsuga canadensis / Canadian Hemlock	B&B
Ornai	mental	Trees		
AC	6	2" cal	Amelanchier canadensis / Shadblow Serviceberry	B&B
AG	2	2" cal	Amelanchier canadensis / Autumn Brilliance Serviceberry	B&B
BN	6	2" cal	Betula nigra / River Birch	B&B
CC	2	2" cal	Crataegus c. inermis 'Cruzan' / Cruzam Hawthorn	B&B
MP	5	2° cal	Malus 'Prairifire' / Prairifire Crab	B&B
MS	5	2" cal	Malus 'Snowdrift' / Snowdrift Crab	B&B
PC	4	2* cal	Pyrus c. 'Cleveland Select' / Cleveland Select Pear	B&B
Shrut	os			
AA	20	30"ht, 24" sp	Aronia arbutifolia 'Brilliantissima' / Brilliant Red Chokeberry	Cont.
ΑE	14	30"ht, 24" sp	Aronia melanocarpa elata / Glossy Black Chokeberry	Cont.
BD	10	30"ht, 24" sp	Buddleia d. 'Sun Gold' / 'Sun Gold' Butterfly Bush	Cont.
CA	31	30"ht. 24" so	Cornus alba 'Regnzam' / Red Grome Dogwood	Cont.
CL	9		Clethra a. 'Ruby Spice' / Ruby Spice Summersweet	Cont.
CR	7		Cornus racemosa / Gray DogwoodRed Chokeberry	Cont.
EA	18	30"ht. 24" sp	Euonymus alata 'Compacta' / Dwarf Burningbush	Cont.
HV	9		Hamamelis x i. 'Girard's Orange / Girard's Orange Witch Hazel	Cont.
IV	19		Itea virginia / Virginia Sweetspire	Cont.
VD	14	30"ht, 24" sp	Viburnum dentatum / Arrowwood Viburnum	Cont.
				UNIT
riant	ing Ma +/-	teriais	Topsoil Installed	CY
	+/-		Shredded Hardwood Mulch Installed	CY
	+/-		Terra Sorb or Approved Equal	LBS
_awn	+/-		Seed	SF
	+/- +/-		Sod (owner's option)	SY
	+/-		our formers obtaining	01
Wetla	nds			
	+/-		Wetlands Seed Mix	LBS

TYPICAL BUILDING "A" PRELIMINARY PLANT MATERIAL SCHEDULE:

TOT.	QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
ORNA	MENT	AL TRE	E			
	1	MP	Malus 'Prairifire'	Prairifire Crab	2* Cal.	B&B
	1	SR	Syringa reticulata 'Ivory Silk'	Ivory Silk Tree Lilac	2" Cal.	B&B
SHRU	BS					
	20	BM	Buxus Microphylla 'Wintergreen'	Wintergreen Littleleaf Boxwood	24" Ht.	Cont.
	5	HM	Hydrangea m. 'Glowing Embers'	Glowing Embers Hydrangea	24" Ht.	Cont.
	6	PG	Potentilla fruticosa 'Goldfinger'	Goldfinger Potentilla	24" Ht.	Cont.
	5	ΡJ	Pieris japonica	Japanese Andromeda	24" Ht.	Cont.
	4	RF	Rosa 'The Fairy	The Fairy Rose	24" Ht.	Cont.
	5	RM	Rosa 'Meivahyn'	Knockout Rose	24" Ht.	Cont.
	4	SB	Spiraea x b. 'Anthony Waterer'	Anthony Waterer Spiraea	30" Ht.	Cont.
	4	SJ	Spiraea japonica 'Little Princess'	Little Princess Spiraea	24" Ht.	Cont.
	1	SP	Syringa patula 'Miss Kim'	Miss Kim Lilac	30" Ht.	Cont.
	1	TA	Thuja occidentalis 'Wintergreen'	Wintergreen Arborvitae	30" Ht.	Cont.
	14	TM	Taxus x media 'Everlow'	Everlow Yew	24" Sp.	Cont.
	12	TW	Taxus x media 'Wardii'	Wards Yew	24" Ht.	Cont.
	5	VC	Viburnum Carlesii	Korean Spice Viburnum	୫ ୯୩୫୨.	Cent.
PERE	NNIAL					
	65	CG	Coreopsis grandiflora 'Early Sunrise'	Early Sunrise Coreopsis	18" Ht.	
	54	нн	Hemerocallis 'Happy Returns'	Happy Returns Daylilly	18" Ht.	
	15	NF	Nepeta faassenii 'Walker's Low'	Walker's Low Catmint	18" Ht.	Cont.
MATE	RIALS					
	+/-		Mulch (To Be Determined By Contractor)			CY
	+/-		Plant Mix (To Be Determined By Contractor)			CY
	+/-		Terra Sorb (Or Approved Equal)			LBS
	+/-		Edging			LF
	+/-		Pavers - Unilock Hollandstone			SF
LAWN	i		Color: Sandstone			
	+/-		Seed			SF
	+/-		Sod (owner's option)			CY

TYPICAL BUILDING "B" PRELIMINARY PLANT MATERIAL SCHEDULE:

TOT.	QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
ORNA	MENT	AL TRE	E			
	1	MJ	Malus 'Jewelcote'	Red Jewel Crab	2" Cal.	B&B
SHRU	BS					
	5	вм	Buxus Microphylla 'Wintergreen'	Wintergreen Littlefeaf Boxwood	24" Ht.	Cont.
	4	НМ	Hydrangea m. 'Glowing Embers'	Glowing Embers Hydrangea	24" Ht.	Cont.
	6	PJ	Pieris japonica	Japanese Andromeda	24" Ht.	Cont.
	9	RF	Rosa 'The Fairy	The Fairy Rose	24" Ht.	Cont.
	10	RM	Rosa 'Meivahyn'	Knockout Rose	24" Ht.	Cont.
	22	SJ	Spiraea japonica 'Little Princess'	Little Princess Spiraea	24" Ht.	Cont.
	1	SP	Syringa patula 'Miss Kim'	Miss Kim Lilac	30" Ht.	Cont.
	9	TM	Taxus x media 'Everlow'	Everlow Yew	24" Sp.	Cont.
	10	TW	Taxus x media 'Wardii'	Wards Yew	24" Ht.	Cont.
	3	VC	Viburnum Carlesii	Korean Spice Viburnum	5' Ht.	Cont.
	3	WF	Weigela florida 'Minuet'	Minuet Weigela	24" Ht.	Cont.
PERE	NNIAL	5				
	36	CG	Coreopsis grandiflora 'Early Sunrise'	Early Sunrise Coreopsis	18" Ht.	Cont.
	11	CV	Coreopsis verticillata 'Moonbeam'	Moonbeam Coreopsis	18" Ht.	Cont.
	53	HH	Hemerocallis 'Happy Returns'	Happy Returns Daylilly	18* Ht.	Cont.
	22	NF	Nepeta faassenii 'Walker's Low'	Walker's Low Catmint	18" Ht.	Cont.
MATE	RIALS					
	+/-		Mulch (To Be Determined By Contractor)			CY
	+/-		Plant Mix (To Be Determined By Contractor)			CY
	+/-		Terra Sorb (Or Approved Equal)			LBS
	+/-		Edging			LF
	+/-		Pavers - Unilock Hollandstone Color: Sandstone			SF
LAWN	1					
	+/-		Seed			SF
	+/-		Sod (owner's option)			CY

ENTRANCE PRELIMINARY PLANT MATERIAL SCHEDULE:

TOT.	QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
ORNA	MENTA	AL TRE	E	The state of the s		
	5	TG	Tilia cordata "Greenspire"	Greenspire Linden	4" Cal.	B&B
SHRU	BS					
	21	вм	Buxus Microphylla 'Wintergreen'	Wintergreen Littleleaf Boxwood	24" Ht.	Cont.
	122	PH	Pennisetum Alopecuroides 'Hamelin'	'Hamlin' Dwarf Fountain Grass	24" Ht.	Cont.
	5	SB	Spiraea x b. 'Anthony Waterer'	Anthony Waterer Spiraea	30" Ht.	Cont.
	24	TM	Taxus x Media 'Everlow'	Everlow Yew	24" Sp.	Cont.
	18	VN	Viburnum Opulus 'Nanum'	Dwarf European Cranberrybush	24" Ht.	Cont.
	104	RM	Rosa 'Meivahyn'	Knockout Rose	24" Ht.	Cont.
PERE	NNIALS	3				
	68	AW	Aster 'Wood's Light Blue	'Wood's Light Blue' Aster	12* O.C.	1 Gal. Cor
	215	CP	Carex Pennsylvania	Pennsylvania Sedge	12" O.C.	1 Gal. Cor
	422	HSS	Heuchera "Silver Scrolls"	Little Princess Spiraea	18" O.C.	1 Gal. Cor
	421	LM	Liriope Muscari 'Big Blue'	'Big Blue' Lily-Turf	12" O.C.	1 Gal. Cor
	90	RF	Rudbeckia Fulgida 'Goldsturm'	Black Eyed Susan	18" O.C.	1 Gal. Cor
	212	VS	Veronica Spicata 'Red Fox'	Red Fox Veronica	10" O.C.	1 Gal. Cor
ANNU	ALS					
	76		Seasonal Plantings- To be determined		12" O.C.	1 Gal. Cor
MATE	RIALS					
	+/-		Mulch (To Be Determined By Contractor)			CY
	+/-		Plant Mix (To Be Determined By Contractor)			CY
	+/-		Terra Sorb (Or Approved Equal)			LBS
	+/-		Edging			LF
	+/-		Pavers - Unitock Hollandstone Color: Sandstone			SF
LAWN	ı					
	+/-		Seed			SF
	+/-		Sod (owner's option)			CY



ADDITIONAL NOTES:

* All landscape areas to have an automatic irrigation system. Irrigation Plan will be provided by John Deere Irrigation Distributor for the final PUD approval.

Irrigation will occur between the hours of midnight and 5 a.m. Irrigation of all landscape areas including buffer areas and street trees.

IRRIGATION SYSTEM:

The irrigation will be designed for each building and the adjacent common areas. Contractor to coordinate to provide irrigation for all landscape areas.

242,642 S.F. Total Site Square Footage for Seed

or
26,960 S.Y. Total Site Square Yards for Seed Cost
Cost approx. \$0.85 per yard or \$22,916.00 Total

DesignTeam + 975 E. Maple Road, Suite 210 Birmingham, Michigan 48009

P: 248. 559. 1000

Ctenk Shadow Pines L.L.C.
14955 Technology Dr.
Shelby Township, MI
48315
PH: 586.219.2212

Project

Villas at Shadow Pines Rochester Hills Oakland County Michigan

N 8-2013
3-2013
Issued For
nary PUD Review
nary PUD Revision



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SHADOW PINES PLANT LIST

SHADE	YY.	SIZE	BOTANICAL / COMMON NAME	UNIT P	RICE	TOTA
	TREE	s		\$	\$	
AF	14	3" cal	Acer x freemanii 'Celzam' / Autumn Blaze Maple			
СО	8	3" cal	Celtis occidenttalis / Common Hackberry			
ΕU	6	3" cat	Eucommia ulmoides / Hardy Rubber Tree			
GB	3	3" cal	Ginkgo biloba 'Autumn Gold' / Autumn Gold Maidenhair Tree			
GT	21	3" cal	Gleditsia t. inermis 'Skycole' / Skyline Honey Locust			
MG	9	3" cal	Metasequoia glyptostroboides / Dawn Redwood			
PCo	8	6" cal	Platanus x acerifolia 'Columbia' / Columbia London Plane Tree			
QA	4	3" cal	Quercus alba / White Oak			
QB	7	3" cal	Quercus bicolor / Swamp White Oak			
QR	3	3" cal	Quercus rubra / Red Oak			
QS	2	3" cal	Quercus shumardii / Shumard Oak			
тс	12	3" cal	Tilia cordata 'Corzam / Corzam Linden			
UP	10	3" cal	Ulmus x 'Pioneer' / Pioneer Elm			
vergre			Abian annulus / Onnulus Milita Fin			
AB	16	10'ht, 5'sp	Abies concolor / Concolor White Fir			
PA PG	12 12	10'ht, 5'sp 10'ht, 5'sp	Picea abies / Norway Spruce Picea glauca var, densata / Black Hills Spruce			
PS	14	10'ht, 5'sp	Picea glauca / White Spruce			
PR			Pinus resinosa / Red Pine			
	12	10'ht, 5'sp				
PE	23	10'ht, 5'sp	Pinus strobus / Eastern White Pine			
TS	9	10'ht, 5'sp	Tsuga canadensis / Canadian Hemlock			
RNAM	ENTA	L TREES				
AC	6	2" cal	Amelanchier canadensis / Shadblow Serviceberry			
AG	2	2" cal	Amelanchier canadensis / Autumn Brilliance Serviceberry			
BN	6	2" cal	Betula nigra / River Birch			
CC	2	2" cal	Crataegus c, inermis 'Cruzan' / Cruzam Hawthorn			
MP	5	2" cal	Malus 'Prairifire' / Prairifire Crab			
MS	5	2" cal	Malus 'Snowdrift' / Snowdrift Crab			
PC	4	2* cal	Pyrus c. 'Cleveland Select' / Cleveland Select Pear			
SHRUB	s					
AA	20	30"ht, 24" sp	Aronia arbutifolia 'Brilliantissima' / Brilliant Red Chokeberry			
AE	14	30"ht. 24" sp	Aronia melanocarpa elata / Glossy Black Chokeberry			
BD	10		Buddleia d. 'Sun Gold' / 'Sun Gold' Butterfly Bush			
CA	31		Cornus alba 'Regnzam' / Red Grome Dogwood			
CL	9		Clethra a. 'Ruby Spice' / Ruby Spice Summersweet			
CR	7		Cornus racemosa / Gray DogwoodRed Chokeberry			
EA			Euonymus alata 'Compacta' / Dwarf Burningbush			
EA HV	18 9		Hamamelis x i. 'Girard's Orange / Girard's Orange Witch Hazel			
	-		Itea virginia / Virginia Sweetspire			
IV VD	19 14		Viburnum dentatum / Arrowwood Viburnum			
		•				
MATER	IALS		Topsoil Installed			
	+/-		Shredded Hardwood Mulch Installed			
	+/-		Terra Sorb or Approved Equal			
	•					
	±1		Seed			
AWN.	+/- +/-		Seed Sod (owner's option)			
.AWN	T/-					
.AWN	+/-					
	NDS		W. H. J. O. J. W.			
AWN VETLA!			Wetlands Seed Mix			

TYPICAL BUILDING "A" PRELIMINARY PLANT MATERIAL SCHEDULE:

TOT.	QTY.	KEY	BOTANICAL NAME	COMMON NAME	UNIT PRICE TOTAL
DRNA	MENTA	AL TRE	E		\$ \$
	1	MP	Malus 'Prairifire'	Prairifire Crab	
	1	SR	Syringa reticulata 'Ivory Silk'	Ivory Silk Tree Lilac	
SHRU	BS				
	20	ВМ	Buxus Microphylla 'Wintergreen'	Wintergreen Littleleaf Boxwood	
	5	HM	Hydrangea m. 'Glowing Embers'	Glowing Embers Hydrangea	
	6	PG	Potentilla fruticosa 'Goldfinger'	Goldfinger Potentilla	
	5	PJ	Pieris japonica	Japanese Andromeda	
	4	RF	Rosa 'The Fairy	The Fairy Rose	
	5	RM	Rosa 'Meivahyn'	Knockout Rose	
	4	SB	Spiraea x b. 'Anthony Waterer'	Anthony Waterer Spiraea	
	4	SJ	Spiraea japonica 'Little Princess'	Little Princess Spiraea	
	1	SP	Syringa patula 'Miss Kim'	Miss Kim Lilac	
	1	TA	Thuja occidentalis 'Wintergreen'	Wintergreen Arborvitae	
	14	TM	Taxus x media 'Everlow'	Everlow Yew	
	12	TW	Taxus x media 'Wardii'	Wards Yew	
	5	VC	Viburnum Carlesii	Korean Spice Viburnum	
PERE	NNIAL	S			
	65	CG	Coreopsis grandiflora 'Early Sunrise'	Early Sunrise Coreopsis	
	54	HH	Hemerocallis 'Happy Returns'	Happy Returns Daylilly	
	15	NF	Nepeta faassenii 'Walker's Low'	Walker's Low Catmint	
MATE	RIALS				
	+/-		Mulch (To Be Determined By Contractor)		
	+/-		Plant Mix (To Be Determined By Contractor)		
	+/-		Terra Sorb (Or Approved Equal)		
	+/-		Edging		
	+/-		Pavers - Unilock Hollandstone		
LAWN	ı		Color: Sandstone		
	+/-		Seed		
	+/-		Sod (owner's option)		
OTHE	R				
	+/-		(Specify as needed)		

TYPICAL BUILDING "B" PRELIMINARY PLANT MATERIAL SCHEDULE:

TOT.	QTY.	KEY	BOTANICAL NAME	COMMON NAME	UNIT PRIC	E TOTAL
ORNA	MENT	AL TRE	E		\$	\$
	1	MJ	Malus 'Jewelcole'	Red Jewel Crab		
SHRU	BS					
	5	вм	Buxus Microphylla 'Wintergreen'	Wintergreen Littleleaf Boxwood		
	4	НМ	Hydrangea m. 'Glowing Embers'	Glowing Embers Hydrangea		
	6	ΡJ	Pieris japonica	Japanese Andromeda		
	9	RF	Rosa 'The Fairy	The Fairy Rose		
	10	RM	Rosa 'Meivahyn'	Knockout Rose		
	22	SJ	Spiraea japonica 'Little Princess'	Little Princess Spiraea		
	1	SP	Syringa patula 'Miss Kim'	Miss Kim Litac		
	9	TM	Taxus x media 'Everlow'	Everlow Yew		
	10	TW	Taxus x media 'Wardii'	Wards Yew		
	3	VC	Viburnum Carlesii	Korean Spice Viburnum		
	3	WF	Weigela florida 'Minuet'	Minuet Weigela		
PERE	NNIALS	3				
	36	CG	Coreopsis grandiflora 'Early Sunrise'	Early Sunrise Coreopsis		
	11	CV	Coreopsis verticillata 'Moonbeam'	Moonbeam Coreopsis		
	53	HH	Hemerocallis 'Happy Returns'	Happy Returns Daylilly		
	22	NF	Nepeta faassenii 'Walker's Low'	Walker's Low Catmint		
MATE	RIALS					
	+/-		Mulch (To Be Determined By Contractor)			
	+/-		Plant Mix (To Be Determined By Contractor)			
	+/-		Terra Sorb (Or Approved Equal)			
	+/-		Edging			
	+/-		Pavers - Unilock Hollandstone Color: Sandstone			
	+/-		Seed			
	+/-		Sod (owner's option)			
OTHE	R					
	+/-		(Specify as needed)			

ENTRANCE PRELIMINARY PLANT MATERIAL SCHEDULE:

TOT.	QTY.	KEY	BOTANICAL NAME	COMMON NAME	UNIT PR	ICE TOTA
ORNA	MENT	AL TRE	E		\$	\$
	5	TG	Tilia cordata "Greenspire"	Greenspire Linden		
SHRL	IBS					
	21	вм	Buxus Microphylla 'Wintergreen'	Wintergreen Littleleaf Boxwood		
	122	PH	Pennisetum Alopecuroides 'Hamelin'	'Hamlin' Dwarf Fountain Grass		
	5	SB	Spiraea x b. 'Anthony Waterer'	Anthony Waterer Spiraea		
	24	TM	Taxus x Media 'Everlow'	Everlow Yew		
	18	VN	Viburnum Opulus 'Nanum'	Dwarf European Cranberrybush		
	104	RM	Rosa 'Meivahyn'	Knockout Rose		
PERE	NNIALS	S				
	68	AW	Aster 'Wood's Light Blue	Wood's Light Blue Aster		
	215	CP	Carex Pennsylvania	Pennsylvania Sedge		
	422	HSS	Heuchera "Silver Scrolls"	Little Princess Spiraea		
	421	LM	Liriope Muscari 'Big Blue'	'Big Blue' Lily-Turf		
	90	RF	Rudbeckia Fulgida 'Goldsturm'	Black Eyed Susan		
	212	VS	Veronica Spicata 'Red Fox'	Red Fox Veronica		
ANNL						
	76		Seasonal Plantings- To be determined			
MATE	RIALS					
	+/-		Mulch (To Be Determined By Contractor)			
	+/-		Plant Mix (To Be Determined By Contractor)			
	+/-		Terra Sorb (Or Approved Equal)			
	+/- +/-		Edging			
	+/-		Pavers - Unilock Hollandstone Color: Sandstone			
LAWN						
	+/-		Seed			
	+/-		Sod (owner's option)			
ОТНЕ	R					
	+/-		(Specify as needed)			

ADDITIONAL NOTES:

242,642 S.F. Total Site Square Footage for Seed 26,960 S,Y. Total Site Square Yards for Seed Cost Cost approx. \$0.85 per yard or \$22,916.00 Total UNIT "A" PLANTINGS \$ x 8 BUILDINGS \$ UNIT "B" PLANTINGS \$ x 6 BUILDINGS Total of ALL BUILDINGS \$ ENTRANCE PLANTINGS \$ BUFFER, REPLACEMENT & LANDSCAPE REQUIREMENTS \$ GRAND TOTAL \$

DesignTeam +

Shadow Pines Rochester Hills Oakland County

Designed/Drown	RN/MP/BC
Checked/Approve	ed RN
Job #	28-2013
File	
Date/Revisions	Issued For
1/27/2014	Preliminary PUD Rev
4/7/2014	Cost Estimate



Landscape Cost Estimate

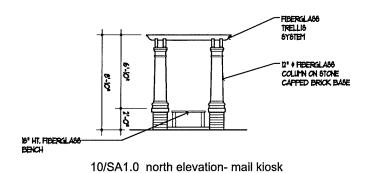
975 E. Maple Road, Suite 210 Birmingham, Michigan 48009

P; 248, 559, 1000

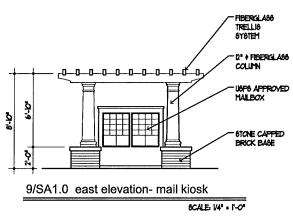
Shadow Pines L.L.C. 14955 Technology Dr. Shelby Township, MI 48315 PH: 586.219.2212

Villas at Michigan

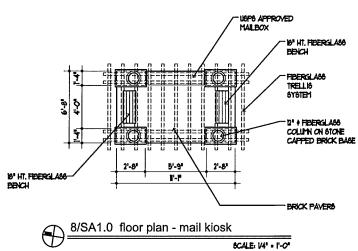
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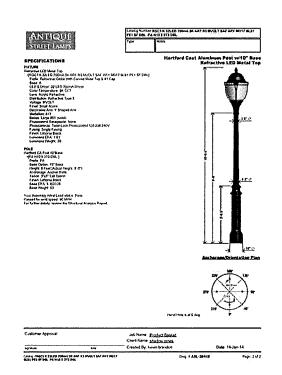


(south elevation - mirror image)

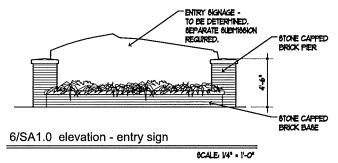


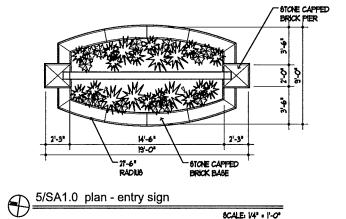
8CALE: 14" . 1'-0"



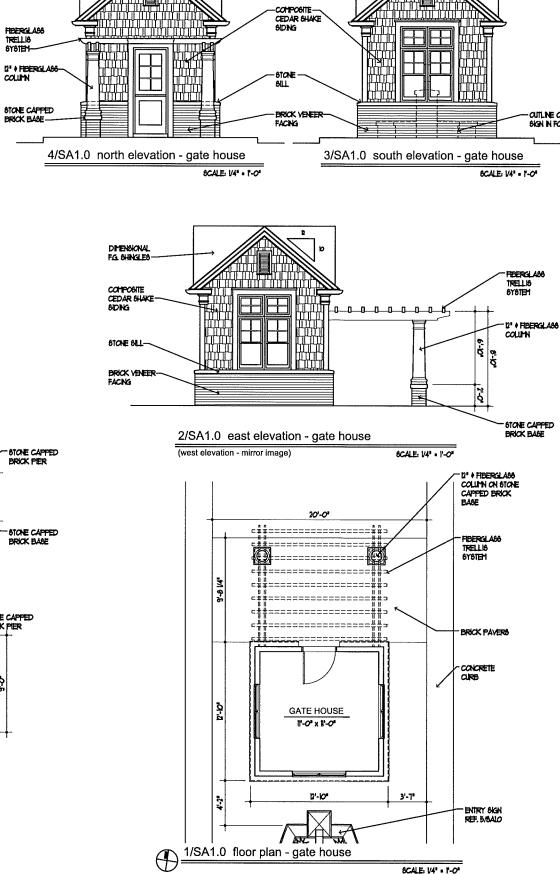


7/SA1.0 pole mounted street light fixture REFER TO SITE PLAN FOR LOCATIONS CLIANTITY: 8



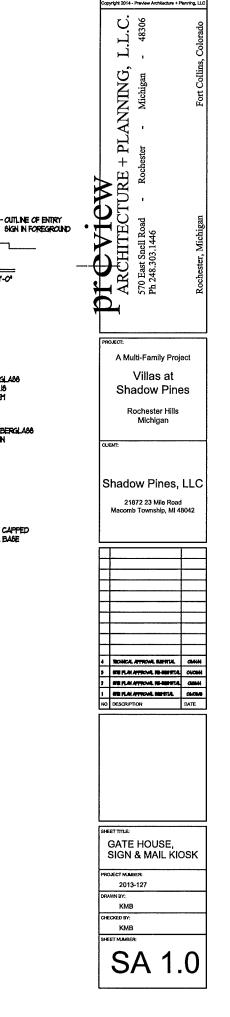


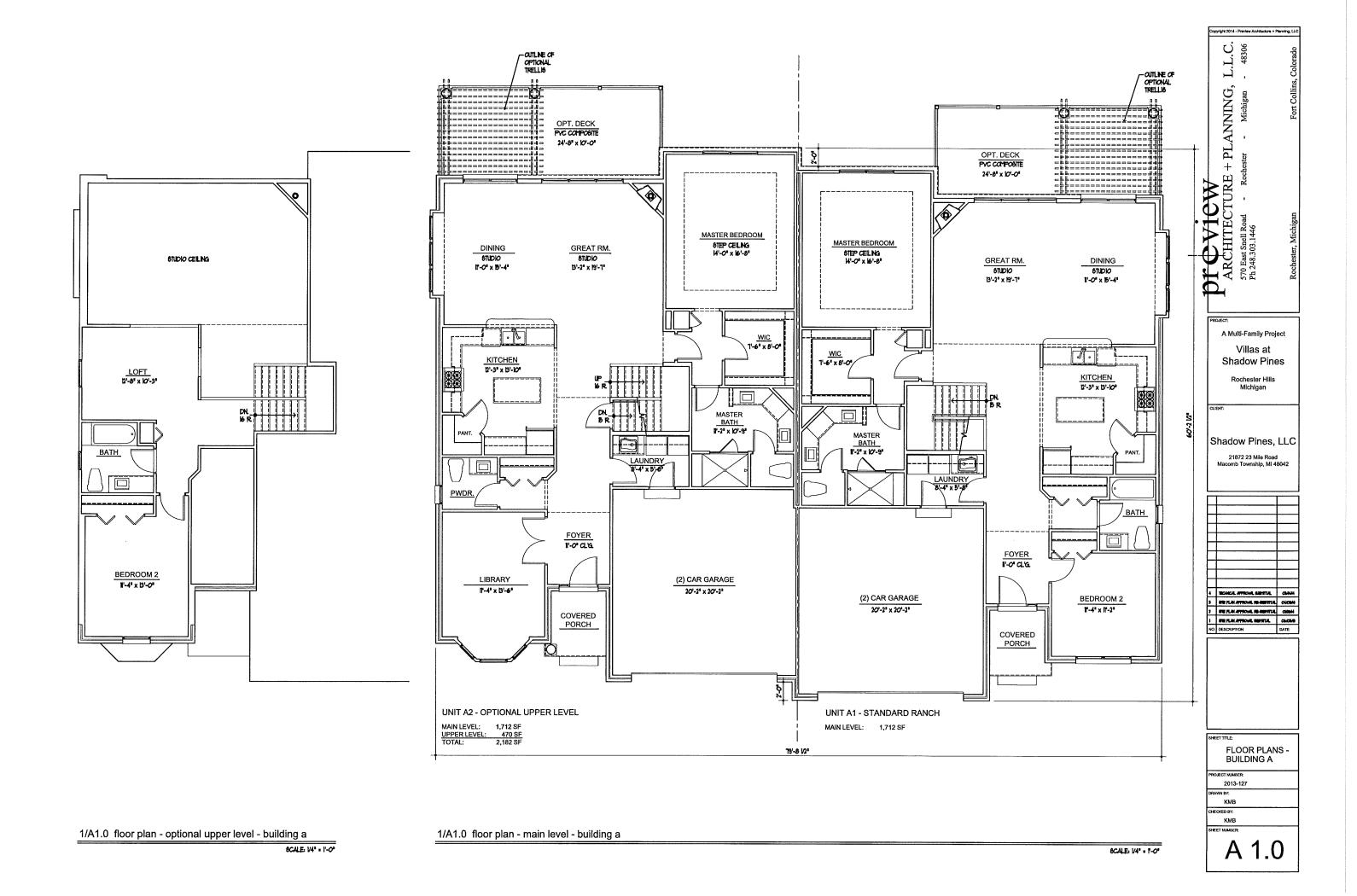
8CALE: V4" : 1'-0"

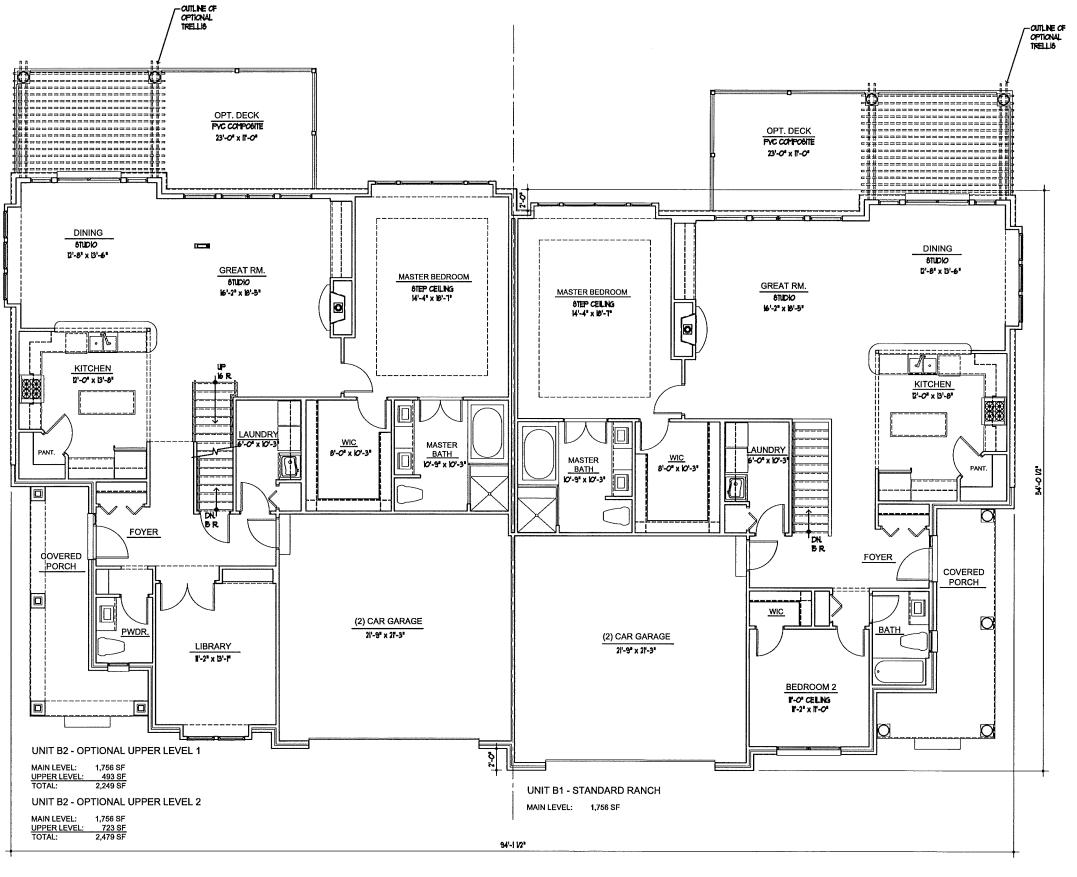


8CALE: 14" : 1-0"

- DIMENSKANAL-F.G. SHINGLES





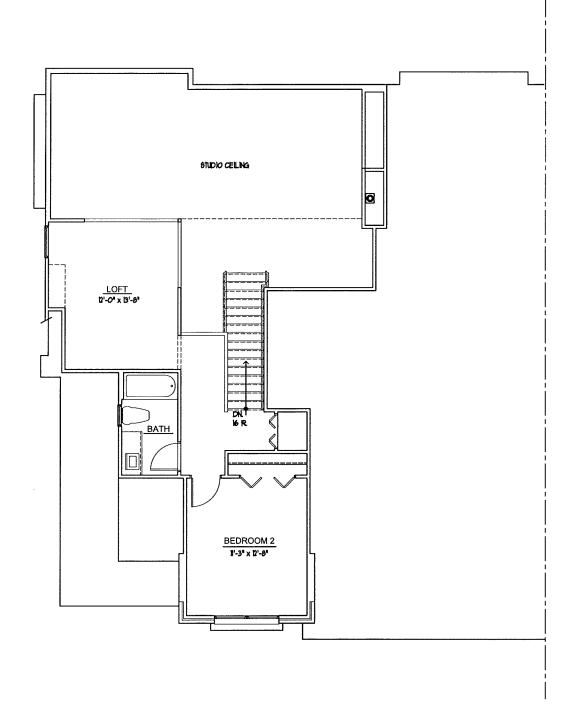


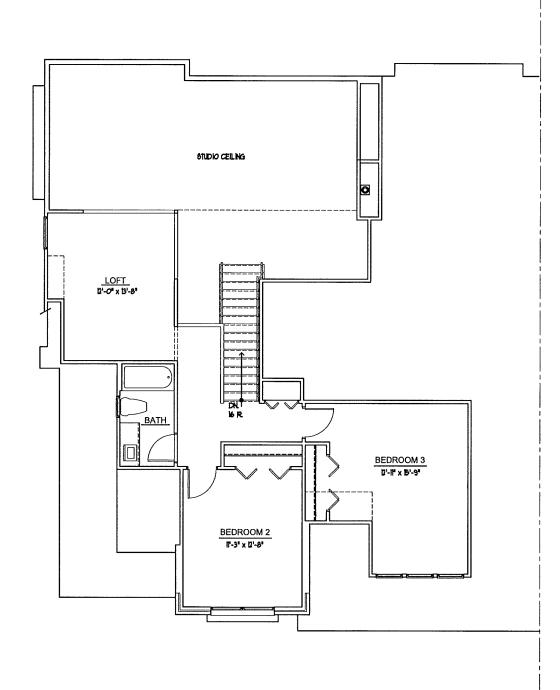
1/A1.1 floor plan - main level - building b

8CALE; V4° = 1'-0°

OF CYICW
- ARCHITECTURE + PLANNING, A Multi-Family Project Villas at Shadow Pines Rochester Hills Michigan Shadow Pines, LLC 21872 23 Mile Road Macomb Township, MI 48042 STEPLAN ATTRONE RE-RESTREE CHOSES STEPLAN ATTRONE PERSONAL COMM STE FLAN APPROVE SSENTIAL CARGO FLOOR PLANS -BUILDING B 2013-127 KMB KMB

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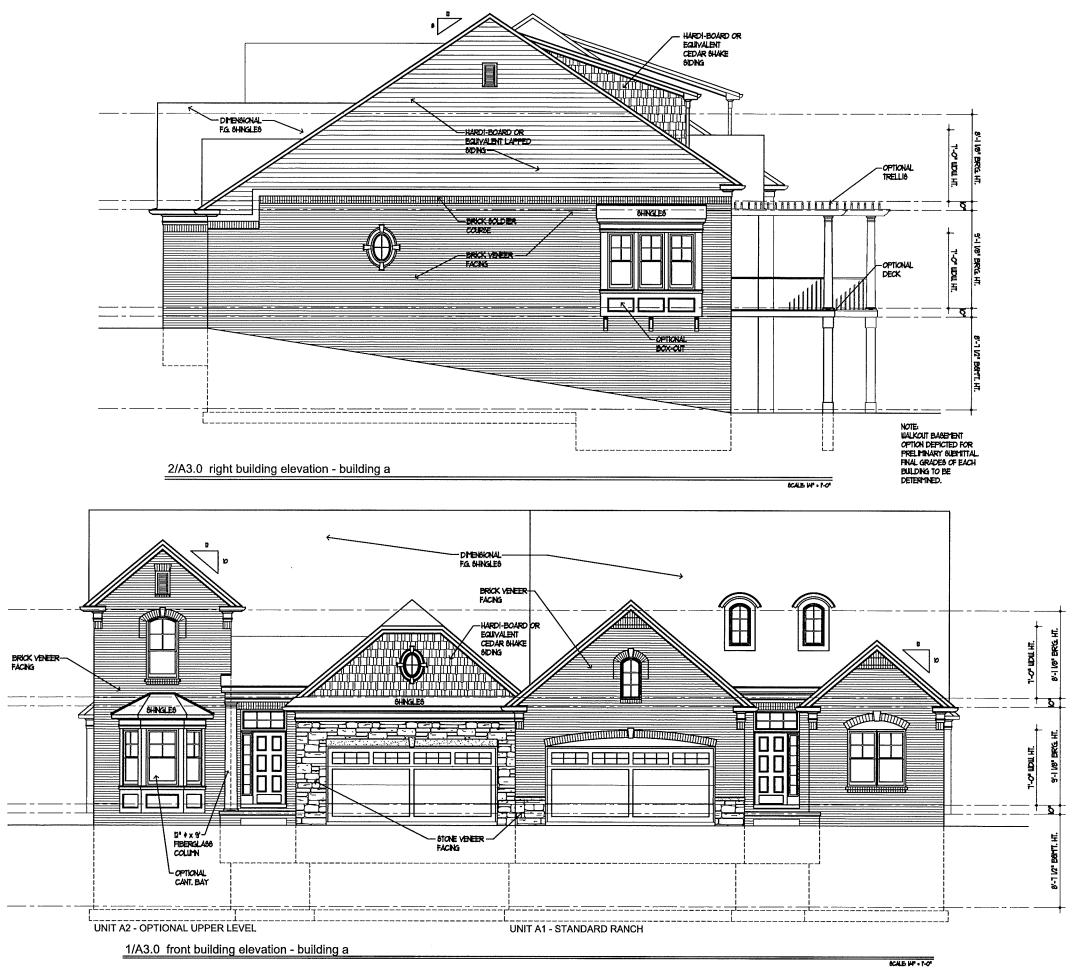
ARCHITECTURE + PLANNING, L.L.C. 570 East Snell Road - Rochester - Michigan - 48306 Ph 248.303.1446 A Multi-Family Project Villas at Shadow Pines Rochester Hills Michigan Shadow Pines, LLC 21872 23 Mile Road Macomb Township, MI 48042 STEPLAN ATTRONE TO SECURITAL STEPLE ATTRONE PERSONAL STEE PLAN APPROVE SERVICE FLOOR PLANS -BUILDING B 2013-127 AWN BY: KMB ECKED BY: KMB

1/A1.2 floor plan - optional upper level 1 - building b

6CALE: 1/4" = 1'-0"

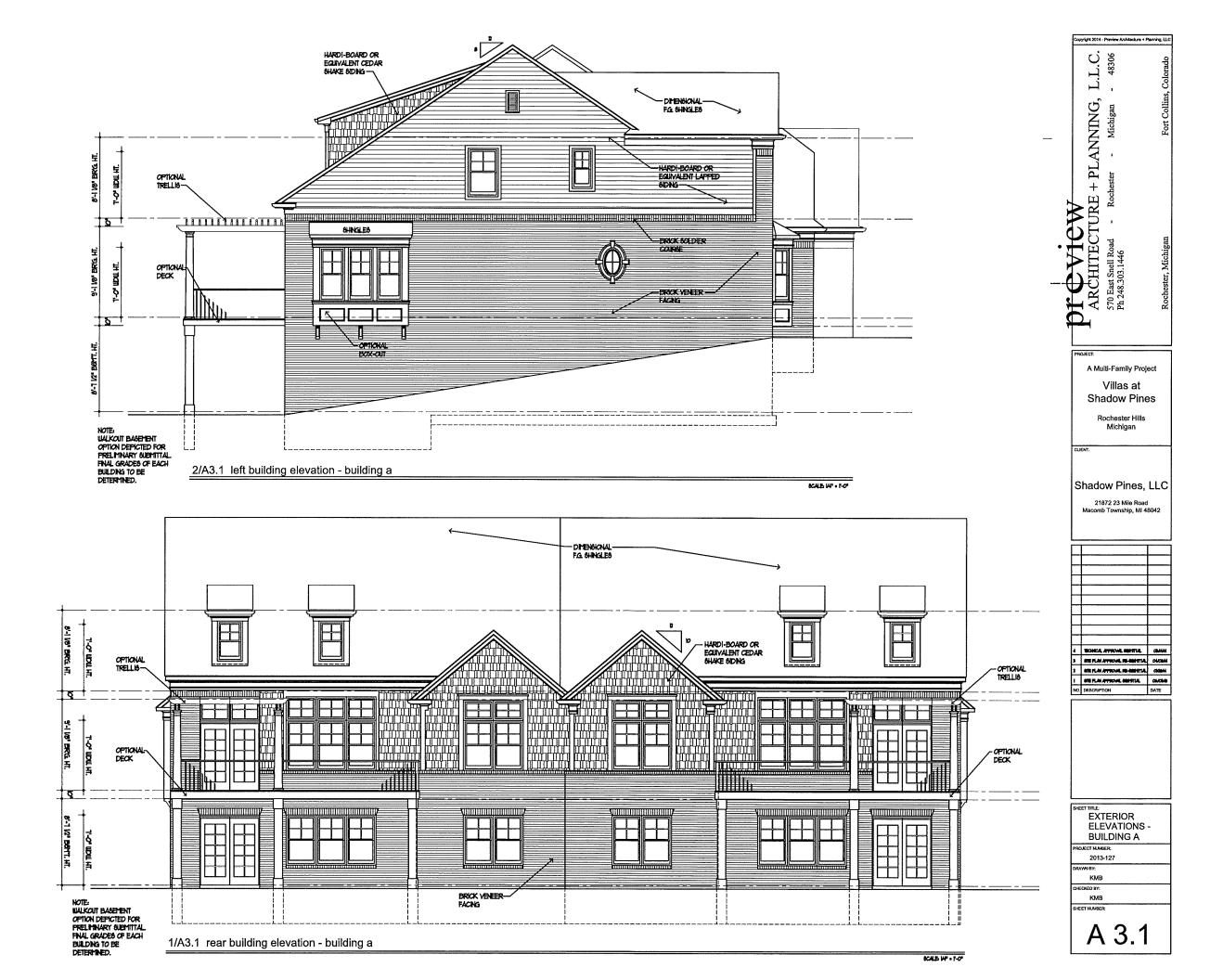
2/A1.2 floor plan - optional upper level 2 - building b

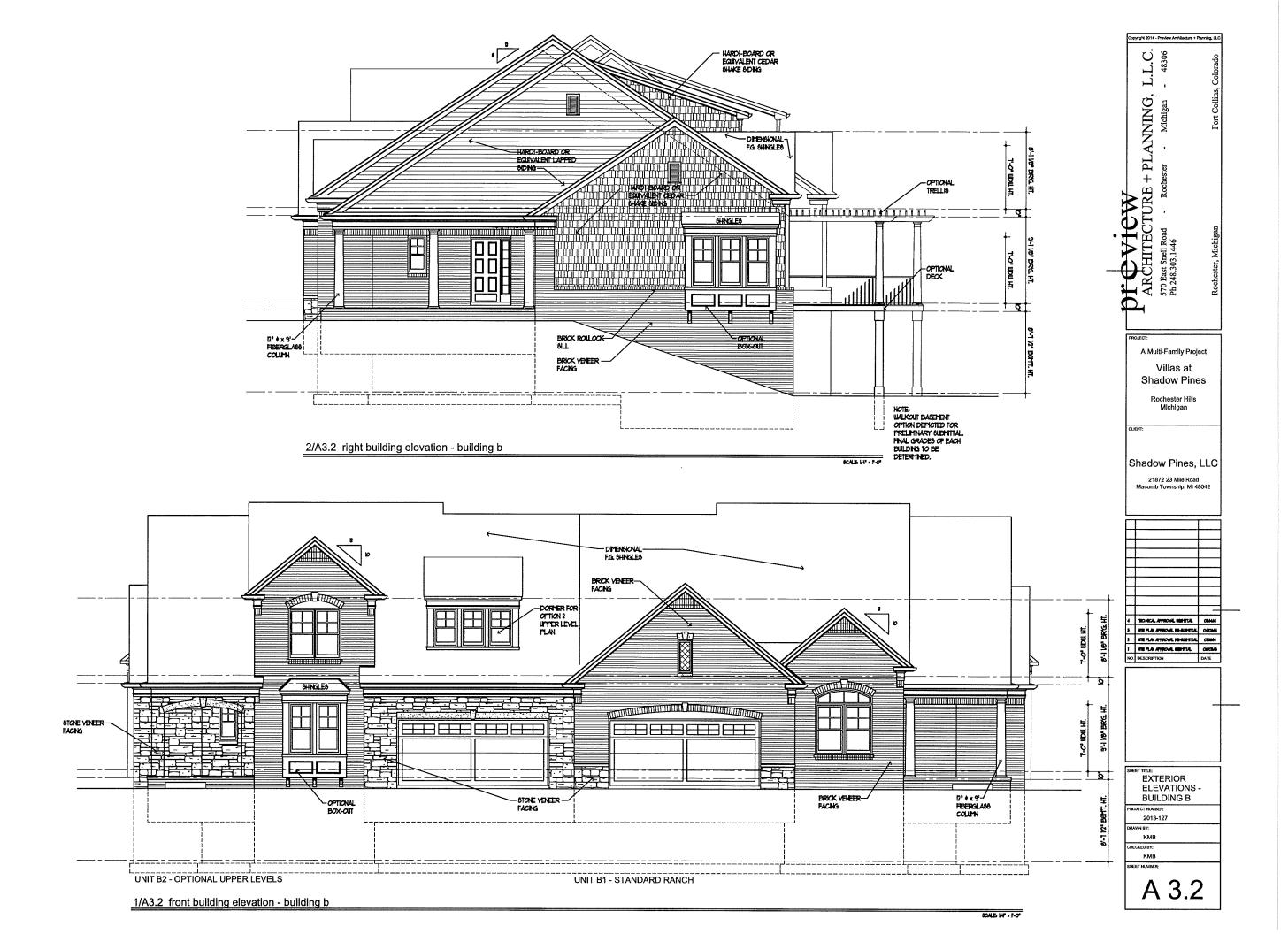
8CALE: 1/4" = 1'-0"

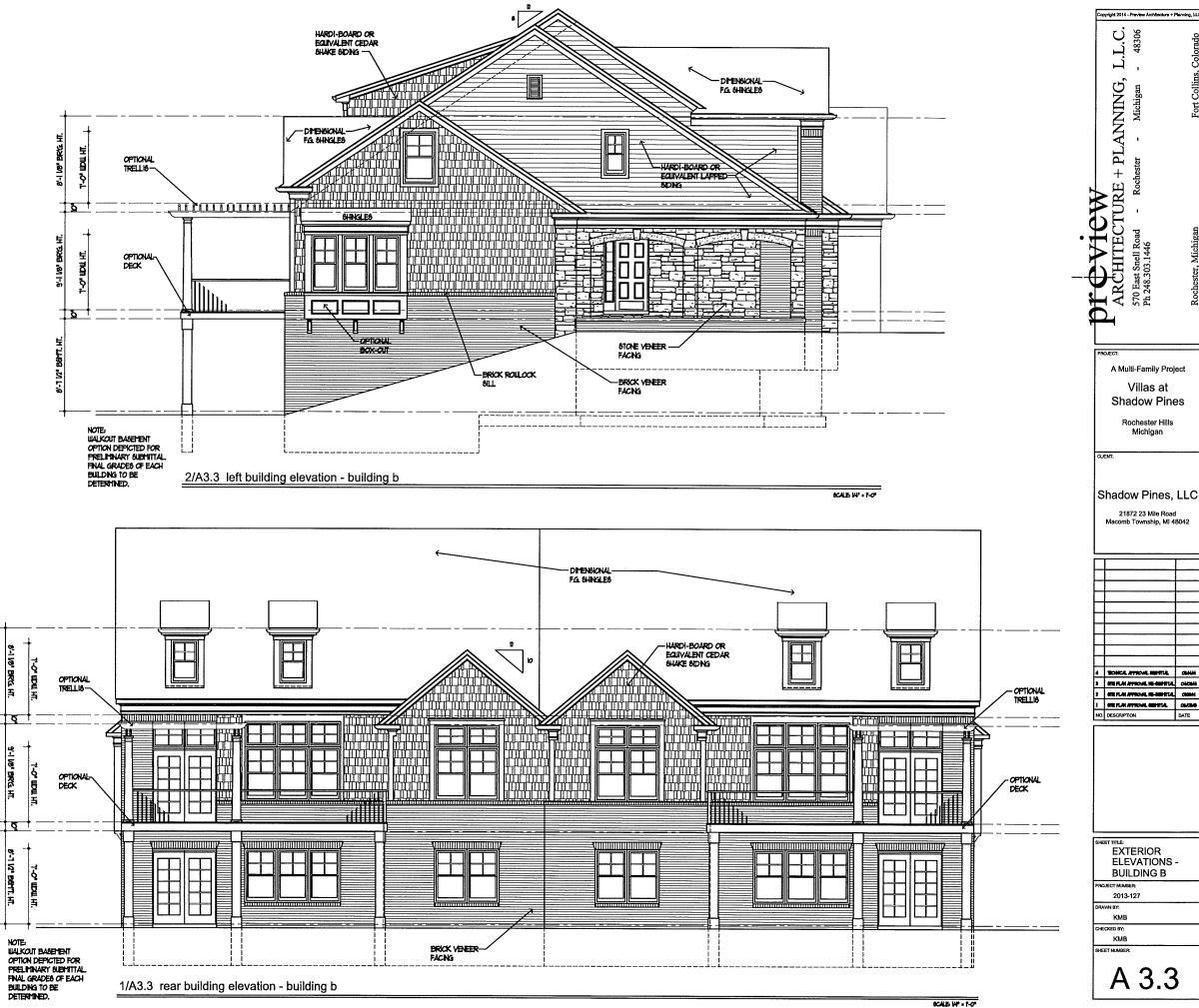


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