(PARCEL IDENTIFICATION: 70-15-28-226-022, 70-15-28-226-021, 70-15-28-226-007, 70-15-28-226-008, 70-15-28-204-004, AND PART OF 70-15-28-226-001)

A PARCEL OF LAND LOCATED IN THE NORTHEAST 1/4 OF SECTION 28, TOWN 3 NORTH, RANGE 11 EAST, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS; COMMENCING AT NORTHEAST CORNER OF SAID SECTION 28; THENCE SOUTH 705.50 FEET ALONG THE EAST LINE OF SECTION 28 TO THE POINT OF BEGINNING; THENCE EXTENDING SOUTH 530.65 FEET ALONG THE EAST LINE OF SECTION 28 THENCE N.88°5001TW 331.20 FEET; THENCE SOUTH 1.60 FEET THENCE ALONG THE NORTHERLY AND EASTERLY LINE OF "WHISPERING WILLOWS NO.1 AS RECORDED IN LIBER 173 ON PAGES 14, OAKLAND COUNTY RECORDS THE FOLLOWING COURSES AND DISTANCES; LIBER 173 ON PAGES 1-4, OARLAND COUNT RECURSOR THE POLECHING GOURGES AND DISTANCES ON MARKET AND NOTITIZED AND DISTANCES ON MARKET AND NOTITIZED AND DISTANCES ON THE NORTH LINE OF SECTION 28; THENCE NOTITIZED AND SECTION 28; THENCE SOOT FEET; THENCE SOOT FEET; THENCE SOOT SECTION 28; THENCE SOOT SECTION 28; THENCE SOOT SECTION 28; THENCE SOOT SECTION 28; THENCE SOOT SECTION 29. THE POLITY OF BEGINNING. CONTAINING 23.629 ACRES OF LAND.

SUBJECT TO AN EASEMENT FOR PEDESTRIAN/BICYCLE PATHWAY AS RECORDED IN LIBER 10759, PAGES 7, AND 101, AND LIBER 10758 PAGE 780, AND LIBER 10823, PAGE 175.

ALSO SUBJECT TO AN EASEMENT FOR A SANITARY SEWER CROSS THE EAST 53 FEET AS RECORDED IN 7159, PAGE 578 AND 579 AND LIBER 7343, PAGE 565.

ALSO SUBJECT TO A RIGHT OF WAY ACQUISITION RECORDED IN LIBER 0383, PAGE 97.

ALSO SUBJECT TO THE RIGHT OF THE PUBLIC IN LIVERNOIS ROAD AND HAMLIN ROAD

ALSO SUBJECT TO ANY EASEMENTS AND/OR RIGHTS OF WAY RECORDED OR OTHERWISE

### SOIL MAP



# **ZONING MAP**



NOTE; NO FLOOD ZONES PRESENT ON SITE PER CITY OF ROCHESTER HILLS FLOOD MAP.

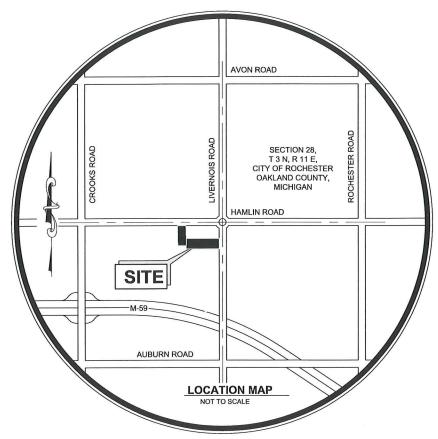
PLANS SUBMITTED TO:

CITY OF ROCHESTER HILLS

# **WOODLAND PARK**

A PART OF THE NORTHEAST 1/4, OF SECTION 28, TOWN 3 NORTH, RANGE 11 EAST, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN

PRELIMINARY SITE PLAN



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THE CONTRACTOR SHALL CHECK AND VERIFY ALL PERTINENT DIMENSIONS AND REPORT ANY DISCREPANCIES TO FAZAL KHAN &

ERMITS SANITARY PERMIT **ISSUED** WATER MAIN PERMIT # W ISSUED ISSUED SOIL EROSION PERMIT# ISSUED DEQ WETLAND PEMIT # ISSUED NPDES PERMIT # MIR FIRE MARSHALL APPROVAL ISSUED ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF ALL GOVERNING AGENCIES. ALL WATERMAINS, SANITARY SEWERS (AND LEADS) AND STORM SEWERS UNDER PROPOSED OR EXISTING PAVEMENT OR WITHIN 3 FT. OF PAVEMENT TO BE SAND BACK FILLED AND COMPACTED TO 95% OPTIMUM DENSITY .ALL UTILITY CROSSINGS TO BE SAND BACKFILLED. SAND BACK FILLING TO BE INCIDENTAL TO

### SHEET INDEX

**BOUNDARY AND TOPOGRAPHY** TREE SURVEY / TREE PRESERVATION PLAN TREE SURVEY / TREE PRESERVATION PLAN TREE LIST TREE LIST **OVERALL SITE PLAN** SITE DRAINAGE PLAN **7A** SITE PLAN AT HAMLIN ROAD 8 9 SITE PLAN AT LIVERNOIS ROAD 10 LANDSCAPE PLAN SIGHT DISTANCE PLAN 10A LANDSCAPE DETAILS 11

WETLAND IMPACT

**COVER SHEET** 

BENCHMARK LIST

BENCHMARK #4 (SHOWN) TOP OF HYDRANT FLEV = 805 75 (NAVD 88)

### SITE DATA

12

R3 --- MIXED RESIDENTIAL OPTION (MR) ZONED TOTAL SITE AREA 23.629 0.448 0.730 22.451 HAMLIN ROAD RIGHT-OF-WAY LIVERNOIS ROAD RIGHT-OF-WAY NET SITE ACREAGE

### DENSITY CALC.

PROPOSED UNITS
PERMITTED DENSITY: 3.45 UNITS/ACRE 72 UNITS

# UNIT SIZES PROVIDED AVERAGE AREA 11,805.52 S.F.

11,805.52 S.F. 19,761 S.F. (UNIT 35) 9,688 S.F. (UNIT 3) 120.00 FEET MAX. AREA MIN. AREA MIN. DEPTH 80.00 FEET NOTE: NO MINIMUM LOT AREA OR WIDTH REQUIREMENT

FOR DETACHED DWELLINGS IN (MR

## PERIMETER SETBACKS

### **UNIT SETBACKS**

REQUIRED 20.0' 25.0' FRONT 20.0'(SIDE ENTRY) SIDE MIN. TOTAL SIDE REAR

# **OPEN SPACE PROVIDED**

PASSIVE OPEN SPACE 2.456 acres 0.483 acres 0.364 acres 0.156 acres

0.089 acres TOTAL PASSIVE = 3.548 acres

0.640 acres 0.369 acres

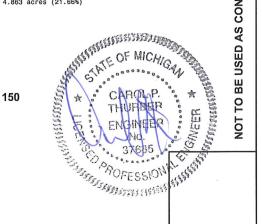
TOTAL ACTIVE = 1.315 acres
TOTAL ACTIVE AND PASSIVE 4.863 acres (21.66%)

### **OWNER / DEVELOPER**

PULTE LAND COMPANY, LLC 100 BLOOMFIELD HILLS PARKWAY, SUITE 150 **BLOOMFIELD HILLS, MI 48304** ATTN: JOE SKORE (248) 330-3069

### **SURVEYOR / ENGINEER**

FAZAL KHAN AND ASSOCIATES, INC. 43279 SCHOENHERR ROAD STERLING HEIGHTS, MI 48313 (586) 739-8007



AS CONSTRUCTION DRAWINGS

**CITY FILE # 15-014** 

RCOC PERMIT #

09-22-2015 10-16-2015

CITY OF ROCHESTER HILLS ROW USE #

10-29-2015

**ISSUED** 

11-11-2015

DATE SUBMITTED: % COMMENTS RECEIVED: % RE-SUBMITTED: // COMMENTS RECEIVED: | RE-SUBMITTED: // DATE APPROVED: // ADDRESS AND PHONE #:

### WOODLAND PARK

A PART OF THE NORTH 1/4, OF SECTION 28, TOWN 3 NORTH, RANGE 11 EAST, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN

= 97 TREES =119 TREES = 45% OF REG. TREES

TO REMAIN

TREE SUMMARY
TOTAL # OF TREES SURVEYED ON-SITE(350 TREES + 201 TREES)
TOTAL # OF UNDESIRABLE TREES/ TREES IN BLDG. ENVELOPE
TOTAL # OF REGULATED TREES

% OF REGULATED TREES TO REMAIN

325.63' (M) / 324.49'' (R)

10629 S.F.

N89"12"02"E (M)

13003 S.F.

45 11182 S.F.

807-806-

SEDIMENT CONTROL-

TOTAL # OF REGULATED TREES TO BE REMOVED
TOTAL # OF REGULATED TREES REQUIRED TO REMAIN
TOTAL # OF REGULATED TREES TO REMAIN

ALL UNDESIRABLE TREES (ASH, BOX ELDER, POPLAR, ELM, SILVER MAPLE, TREE OF HEAVEN, CATALPA, RUSSIAN OLIVE, MULBERRY, BUCKTHORN, WILLOW, SIBERIAN ELM) ARE TO BE REMOVED, EXCEPT IN NATURAL AREA.

PRESERVE A MINIMUM 37% OF THE TOTAL NUMBER OF REGULATED TREES. HOWEVER TREES CONTAINED WITHIN THE DESIGNATED BUILDING ENVELOPE SHALL NOT COUNT TOWARDS THE PRESERVATION PERCENTAGE. TREES WITHIN THE BUILDING ENVELOPE ARE NOT REQUIRED TO BE RELOCATED OR REPLACED.

ALL UNHEALTHY/DEAD TREES NOT LOCATED IN WETLAND AREAS TO BE REMOVED.

3. HEALTHY TREES PRESERVED SHALL APPLY TO LANDSCAPE REPLACEMENT TREES REQUIRED: 142 TREES

13425 S.F.

PRESCO

REPLACEMENT TREES PROVIDED: 
→ 57 STREET TREES

85 TREES REQUIRED
REMAINING REPLACEMENT TREES WILL HAVE PAYMENT IN LIEU

### TREE PLAN LEGEND

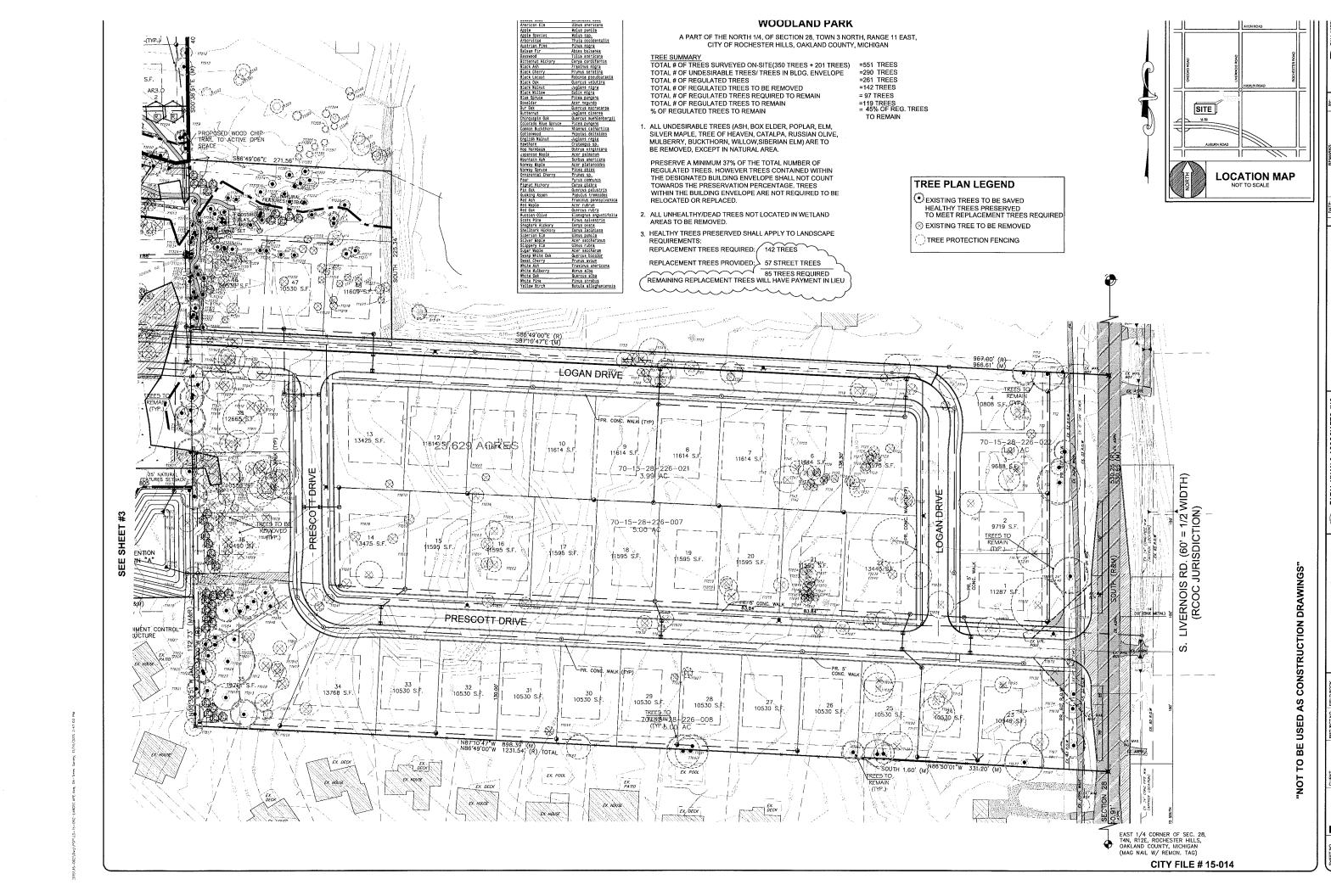
EXISTING TREES TO BE SAVED
 HEALTHY TREES PRESERVED
 TO MEET REPLACEMENT TREES REQUIRED

⊗ EXISTING TREE TO BE REMOVED

TREE PROTECTION FENCING

Connon Name	Botanical Hame
American Elm	Ulcus americana
Apple	Walus pumile
Apple Species	Walus sop.
Arborvitae	Thuja occidentalis
Austrian Pine	Pinus nigra
Balsan Fir	Abies balsanea
Basswood	Tilia emericana
Bitternut Hickory	Carya cordiformis
Black Ash	Fraxinus nigra
Black Cherry	Prunus serotina
Black Locust	Robinía pseudoacacia
Black Oak	Quercus velutina
Black Walnut	Juglans nigra
Black Willow	Salix nigra
Blue Spruce	Picea pungens
Boxelder	Acer negundo
Bur Oak	Quercus macrocarpa
Butternut	Juglans cinerea
Chinquapin Oak	Quercus muehlenbergii
Colorado Blue Spruce	Picea pungens
Common Buckthorn	Rhasrus cathartica
Cottonwood	Populus deltoides
English Walnut	Juglans regia
Hawthorn	Crataegus sp.
Hop Hornbeam	Ostrya virginiana
Japanese Waple	Acer palmatum
Vountain Ash	Sorbus americana
Norway Waple	Acer platanoides
Norway Spruce	Picea abies
Ornamental Cherry	Prunus sp.
Pear	Pyrus communis
Pignut Hickory	Carya glabra
Pin Oak	Overcus palustris
Quaking Aspen	Populus tremoides
Red Ash	Fraxinus pennsylvanica
Red Waple	Acer rubrum
Red Dak	Quercus rubra
Russian-Olive	Elaeagnus angustifolia
Scots Pine	Pinus sylvestris
Shagbark Hickory	Carya ovata
Shellbark Hickory	Carya laciniosa
Siberian Elm	Ulsus pubils
Silver Waple	Acer saccharinum
Slippery Elm	Ulmus rubra
Sugar Waple	Acer saccharum
Swamp White Oak	Quercus bicolor
Sweet Cherry	Prunus avium
Rhite Ash	Frazinus americana
White Mulberry	Morus alba
White Cak	Quercus alba
White Pine	Pinus strobus
Yallow Birch	Betula alleghaniensis

NOTE: ALL TREES INCLUDING
ASH TREES TO BE PRESERVED
IN WETLAND/NATURAL AREA.



# **WOODLAND PARK**

A PART OF THE NORTHEAST 1/4, OF SECTION 28, TOWN 3 NORTH, RANGE 11 EAST, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN **EXISTING TREES ON PARCEL AT LIVERNOIS ROAD** 

TAB No.	Common Name Siberan elm	Dialm. 1 8	Diam. 2	Diam. 3	Good	Notes Save
2 3	Cottonwood Blue spruce	30 14			Good Good	Save Save
4	Blue spruce	11			Good	Save
5 8	Blue spruce Pignut Hickory	28 29			Gabd	Save Henove (Bidg, Envelope)
7	Norway spruce	18			Good	Renove (Bldg. Envelope)
8	Norway spruce Pignut Hickory	22 12			Good	Remove (Bidg, Envelope) Remove
10	Siberian elm	36			Poor	Remove (Bldg. Envelope)
11	Blue spruce	20			Good	Remove (Bldg. Envelope)
13 14	Boxelder Common apple	15 38			Poor	Seve Resove
15	Common apple	12			Good	Renove
16	Common apple	14			Poor Poor	Remove Remove
18	Common apple	8			Poor	Redove
19 20	Red-maple Siberian elm	18 36			Good	Resove
21	Black Walklit	32			Good	Remove
22 23	Common spple Guaking Aspen	12 12			Good	Remove (Bldg. Envelope) Remove (Bldg. Envelope)
24	Quaking Aspen	13			Good	Remove (Bldg. Envelope)
25 26	Quaking Aspen	14			Gaba Gaad	Remove (Bldg. Envelope) Remove (Bldg. Envelope)
27	Quaking Aspen Quaking Aspen	16			Good	Renove (Bldg. Envelope) Renove (Bldg. Envelope) Renove (Bldg. Envelope)
28	Quaking Aspen	14			Good	Renove (Bldg. Envelope)
29 30	Sugar mable White ash	12 10			Good	Remove (Bidg, Envelape) Remove (Bidg, Envelape)
31	Sugar maple	13			Good	Remove (Bldg. Envelape)
32	Black weinut Norway spruce	18			Good	Remove (Bidg. Envelope) Remove (Bidg. Envelope)
35	Norway struce	9			Gaed	Remove (Bldg. Envelope)
36 39	Norway spruce Scots Pine	5 6			Good	Remove (Bldg. Envelope) Remove (Bldg. Envelope)
40	Scots Pine	18			Good	Remove (Bldg. Envelope)
41	Scols Pine	16			Good	Remove (Bldg. Envelope)
42 43	Scots Pine Red maple	10 8			Good	Remove (Bidg, Envelope) Remove (Bidg, Envelope)
44	Red mable	10			Good	Remove (Bldg. Envelope)
45 46	Cottonwood Nonvay spruce	8 12			Good	Redove Redove (Bidg. Envelope)
47	Norway spruce	22			Good	Remove (Bldg. Envelope)
54 55	Siberian elm Cottohwold	22 24			Gand	Save Remove (Bidg. Envelope)
57	Cottonwood Cottonwood				Good	Resove
58 62	Norway spruce	15 30			Good	Redove Renove
64	Norwsy-spruse Norwsy-spruse	14			Good	Remove
	Black cherry	20			Good	Remove
67 74	Red maple Norway spruce	12 18			Good Good	Resove Redove
83	Red maple	10	h		Good	Redove
84 85	White Ash White Ash	6 8			Good	Save
86	White Ash	8			Gaad	Save
87	Norway-spruce	20 8			Gand	Rendve
88 89	Siberian elm Siberian elm	12			Good	Save Save
90	Nerway apruce	21			Gibba	Renove
91	White Ash Siberian elm	14			Good	Save Bave
94	Cottonwood	18	-		Good	Save
95 96	Siberiari elm	12 30			Good	9ave
97	Norway spruce Red maple	10		l	Good	Redove Redove
96	Red maple	10			Good	Remove
99 111	Norway spruse White pine	20 16			Good Good	Renove Save
132	Red mable	40			Good	Renove
136 137	Common apple Common apple	20 12			Poor	Redove Redove (Bldg. Envelöpe)
141	White pine	14			Good	Save
154 195	Common apple Blue spruce	12			Poar	Remove Remove
199	Black charry	10	i		Good	Renove
201 202	Black cherry	8			Good	Save
203	Black cherry Black cherry	6			Good	Save Save
204	Siberian elm	6			Good	Bave
205 206	Black cherry Black chorry	10			Good Good	5ave Re≡ove
207	Black cheiry	10			Good	Regove
208 209	Siberian elm Red maple	10			Good	Rendve Save
210	Red maple	8			Good	Henove (Bldg. Envelope)
211 212	Black cherry Siberish elm	12 20			Good	Renove (Bldg. Envelope) Renove (Bldg. Envelope)
213	Black charry	12			Gand	Save
214 215	Black cherry Red mable	10 10			Good Good	Save Save
216	Sibenan elm	8			Good	Remove (Bldg. Envelope)
217 218	Siberian elm Siberian elm	8 8			Good	Remove (Bidg, Envelope)
219	Siberian elm Red maple	10			Good Good	Save Save
220	Common apple	10			Good	Redove (Bldg, Envelope)
221 222	Siberian alm Siberian elm	10 12			Good	Henove (Bldg, Envelope) Henove (Bldg, Envelope)
223	Siberian elm	14			Good	Renove (Bldg. Envelope)
224 225	White Ash White Ash	7 8			Good	Renove (Bldg. Envelope) Renove (Bldg. Envelope)
226	Siberian elm	14			Good	Regove
227 228	Coltonwood	20 13		<del></del>	Good	Save
229	Siberian elm Siberian elm	12 14			Good Good	Save Save
230	Siberian elm	26	}		Good	Save
231 232	Siberian eint Black cherry	16			Good	Save Save
300	Basswood	7			Gbad	Renove
301 302	Basswood Basswood	10		·	Good	Save Save
303	Basswood	12		Ĺ	Gend	Save
304	White Oak	10			Good	Save
305 306	Basswood Basswood	12	,		Good Good	Save Save
307	Hickory	8		ļ	Gand	Save
308 309	Hickory Besswood	8			Good Good	Save Seve
310	Bassylood	8			Good	Bave
311 312	Basswood	14 7	:		Good Good	Sáve Redove
313	Basswood	10			Good	Renove
314	Basswood	8			Good	Save
315	Basswood	10			Good	Save

	318	Common Name Cottonwood	Diam. 1	Diam. 2	Diam. 3	Condition Good	Notes Save
	319	Basswood	6			Good	Save
	325 321	Basswood Basswood	14			Good Good	Remove Remove
	322	Basswood	12		l	Good	Remove
	323 324	Basswood Basswood	10			Good	Remove Remove
	325	Basswood	10	<u> </u>		Good	Save
	326 327	Basswood Coltonwood	10	ļ	<del> </del>	Good	Save Save
	328	Basswood	10			Good	Save
	329 330	Basswood Basswood	12			Good Good	Renove Renove
	331	Bässwood	12			Good	Renove
	332 333	Basswood Siberian Eint	12	ļ	ļ	Good Gööd	Reflove Reflove
	334	Basewood .	14			Good	Henove
	335 336	Basswood Collenwood	10 16			Good Good	Remove Remove
	337	Basswood	10			Good	Save
	338 339	Basswood Basswood	14 10			Good Good	Reflove Save
	340	Basswood	8			Good	Save
	341 342	Basswood Cettonwood	12			Good Good	Hemove Remove
	343	CettoriWood	16			Good	Renove
	344 345	Cottonwood Cottonwood	16	ļ		Good G888	Save Save
	348	Siberian Elm	16			Good	Save
	347 348	Cottonwood Siberian Elm	1B 7			Good Good	Save Save
	349	BassWood	12			Good	Save
	350	Cottonwood	12			Good Good	Save
	351 352	Siberian Elm Siberian Elm	8 8	ł	İ	Good	Save Save
	353	Cottonwood	14	L	ļ	Good	Save
	354 355	Cettonwood Basswood	10 8	· · · · · · · ·		Good	Save Save
	356	Coltonwood	14		i	Good	Save
	357 358	Siberian Elm Siberian Elm	18			Good	Remove Remove
	359	Basswood	8		l	Good	Remove
· ·	360 361	Siberian Elm Black Cherry	16		<u> </u>	Good	Remove
	362	White Oak	8			Good	Save Save
	363	Siberian Elm	6	[		Good	Save
	364 365	Siberian Elm Siberian Elm	10	·		Good Good	Save Save
	367	Red Maple	8			Good	Save
	368 369	Siberiari Elm Black Cherry	- B	}	i 	Good Good	Save Save
	370	Siberian Elm	8			Good	Save
	371 372	Black Cherry Siberian Elm	10			Good Good	Save
	373	Siberian Elm	15			Good	Save
	374 375	Siberian Elm Siberian Elm	10 15			Good	Save
	376	Siberian Elm	10	<u> </u>		Good Good	Save Säve
	377	Siberian Elm	10			Good	Save
	378 379	Hickory Black Walnut	14			Good Good	Save Save
	389	Black Walnut	26			Good	Save
	381 382	Siberian Elm Siberian Elm	10	ļ		Good	Save SäVe
	383	White Ash	Æ			Poor	Save
	384	White Ash				Poor	Save
	385 386	White Ash White Ash	8			Poor Poor	Save Save
	387	White Ash	8	į		Poor	Save
	388	Siberien Elm Siberien Elm	12			Good Good	Sa∀e Säve
	390	Red Maple	18			Good	Save
	391 392	White Ash Siberian Elm	14 10		; }	Poor Good	Save Save
	393	Siberian Elm	8			Good	Save
	394 395	Siberian Elm Siberian Elm	10 12		-	Good Good	Save Save
	396	Siberian Elm	8			Good	Save
	397 398	Cottonwood	40 30			Good Good	Save
	671	Cottonwood Austrian bine	12			Poor	Save Remove
	672	Nonway spruce	24 10	ļ		Good	Residve
	673 674	Austrian pine Austrian pine	10	ĺ		Good	Remove Save
	675	Red Oak	24			Good	Save
	678 677	Red maple Red maple	22 26			Good Good	Save (Wetland Area) Save
	676	Austrian pine	14			Good	Save
	679 680	Red maple Common apple	30	ļ	ļ,	Good Poor	Remove (Bldg. Envelope) Remove (Bldg. Envelope)
	581	Silver mapte	24	j		Good	Hemove (Bldg. Envelope)
	682 683	Cemmon apple Notway spruce	12 20		ļ i	Poor Good	Remove (Bldg. Envelope) Remove (Bldg. Envelope)
	684	Norway spruce	22		İ	Good	Remove (Bldg. Envelope)
	685 686	Black walnut Red maple	28 20			Good	Renove Renove
	687	Boxelder	18			Poor	Remove
	688	Boxelder	8 10			Poor	Remove
	698 699	Sugal maple Sibelian elm	6			Good Good	Remove Remove
	805	Catterwood	6	[		Guad	Reflove
	807 808	Black walnut Cottonwood	6	-		Good Good	Save Remove
	809	Cattonwood	10			Good	Remove (Bldg. Envelope)
	810 811	Siberian elm Red maple	7 8	ļ		Good Good	Remove (Bldg. Envelope)
	812	While ash	9			Pöör	Remove (Bldg. Envelope)
	813	White ash	10			Dead	Reabve (Bldg. Envelope)
	814 815	White ash Siberian elm	17	·		Poor Good	Save Save
	816	Red maple	36			Good	Save
	818	Quaking aspen	12 12	ļ		Good	Save
	820	Red maple	12			Good Good	Save Save
	820 821	Red maple					
	821 822	Red maple	14			Good	Save
	821 822 823	Red mapte Red mapte	14 10			Good Good	Save Save
	821 822 823 828 829	Red maple Red maple Sugar maple White ash	14 18 14 12			Good Good Good Poor	Save Save Save Save
	821 822 823 828 829 830	Red map/e Red map/e Sugar map/e White ash White ash	14 18 14 12 10			Good Good Good Poor Dead	Save Save Save Save Save
	821 822 823 828 829	Red maple Red maple Sugar maple White ash	14 18 14 12			Good Good Good Poor	Save Save Save Save

-	836	Common Name Black charry	Diam. 1	Diam. 2	Diam. 3	Condition Good	Notes Resove
	837	Silver maple	10			Good	Redove
	838	Botelder	30			Good	Remove (Bidg. Envelope)
	839 840	Boxelder Common apple	16			Good	Remove (Bldg. Envelope) Remove (Bldg. Envelope)
	841	Scots pine	24	-		Good	Remove (Bidg. Envelope)
	842	Scots bine	10			Good	Remove (Bldg. Envelope)
	843	Scats bine	16			Good	Remove (Bldg. Envelope)
	844	Scots pine	14			Good	Remove (Bldg. Envelape)
	845 846	Scots pine	14			Good	Remove (Bldg. Envelape)
	846 847	Scots pine	12	: <u> </u>		Good	Remove (Bldg. Envelope)
	848	Scots pine Scots pine	14			Good Good	Remove (Bldg. Envelope) Remove (Bldg. Envelope)
	849	Scale pine	12	·		Good	Remove (Bldg. Envelope)
	850	Boxelder	12			Pour	Remove (Bidg. Envelope)
	851	Scala pine	10			Good	Ae≋ove (Bidg. Envelope)
	852	Sects pine	14			Good	Resove (Bldg. Envelope)
	853	Scots (kine	24	i		Good	Hemove (Bidg, Envelope)
	854	Scots pine	6			Good	Remove (Hidg. Envelope)
	855	Scots pine	30			Good	Redove (Bldg. Envelope)
	856 857	Cattonwood White ash	32 10			Good	Renove
	858	Black cherry	12			Poor	Remove (Bldg. Envelope) Remove (Bldg. Envelope)
	859	Black charry	8			Poor	Remove (Bidg. Envelope)
	860	Back cherry	10			Pour	Remove
	861	Cattonwood	16		- 1	Good	Resove (Bldg. Envelope)
	862	Collonwood	8			Good	Resove (Bldg. Envelope)
	863	Coffenwood	16			Good	Remove (Bldg, Envelope)
	864	Cottonwood	12			Bond	Remove (Bidg. Envelope)
	865 866	Quaking aspen	10			Good	Renove
	867	Black cherry White pins	18			Good	Remove Remove (Bidg. Envelape)
	868	Caffanwood	10	- 1		Good	Aemove (Bidg. Envelope)
	869	Scots pine	8			Grod	Remove (Blog, Envelope)
	870	Siberian e'm	- 6			Gnad	Remove
	871	White ash	11	:t		Dead	Remove
	872	White dish	j 11			Dead	Remove (Bidg. Envelope)
	673	Red maple	21			Bood	Remove (Bldg, Envelope)
	874	White ash	7			Drad	Restve (Bldg. Envelope)
	875	White ash	12		1	Dead	Remove (Bldg. Envelope)
	876 877	White ash	14			Dead	Remove
	877 879	White Oak Red mable	6 8			Good	Save (Wetland Area) Save (Wetland Area)
	882	Siberian e'm	22			Good	Save (Wetland Area) Remove
	883	Sugar mable	8 B			Good	Remove
	884	Sugar maple	8			Good	Remove
	885	Siberian e'm	12	i		Good	Remove (Bidg. Envelope)
	888	Red maple	8			Good	Remove (Bldg. Envelope)
	887	Red midble	9			Good	Remove (Bldg. Envelope)
	888	Red maple	12			Good	Remove (Bldg. Envelope)
	559	Red maple	20			Good	Remove (Bldg, Envelope)
	890	Red maple	18			Good	Aemove (Bidg. Envelope)
	891 892	White ash Red maple	6 16			Dend Good	Remove (Bldg. Envelope)
	893	White seh	10			Dead	Remove (Bldg. Envelope) Remove
	894	Siberian e'm	10			Good	Redove
	895	Red maple	iä			Good	Redove
	896	Red maple	10			Good	Save
	897	Red maple	: 8			Good	Resove
	898	Red-maple	13			Good	Resove
	899	Red maple	8			Bood	Resove
	900	White dah	12	1		Dead	Remove (81dg. Envelope)
	901	White ash	6			Dead	Remove (Bldg. Envelope)
	902 903	Red maple	10			Good	Remove (Bldg. Envelope)
	904	Red maple Collonwood	12 13			Good	Remove (Bldg. Envelope) Remove (Bldg. Envelope)
	905	Siberian e'm	18			Good	Remove (Bldg. Envelope) Remove (Bldg. Envelope)
	906	Red inable	12			Good	Remove
	907	Rad maple	10			Good	Redove
	908	White ash	10			Dead	Redove
	909	White ash	12			Dead	Rendve
	910	Redmaple	18			Good	Renove
	911	Cottonwood	26			Good	Remove (81dg. Envelope)
	912	Red meble	15			Good	Remove (Bldg. Envelope)
	913 914	Red mable White zeh	9 14		<u>-</u> į	Good	Remove (Bldg. Envelope)
	916	White ash	19			Poor Poor	Save (Wetland Area) Bave (Wetland Area)
	917	White pine	18			Good	Save
	918	Birch	17			Good	Save (Wetland Area)
	919	White ash	16	· · · · · · · · · · · · · · · · · · ·		Dead	Save (Wetland Area)
	920	White ash	8			Dead	Save (Wetland Area)
	921	5:berian e'm	15			Good	Save (Wetland Area)
	922	Bine aburce	14			Good	Saye
	923	Boxelder	22			Good	Remove
	924 926	Boxelder	9			Good	Remove Remove
	927	White Ash Black cherry	14			Dead Poor	Remove Remove (Bldg. Envelope)
	928	Scots pine	10			Good	Remove (Bldg. Envelope)
	929	Black cherry	10		·	Pour	Remove
	930	White ash	22		2.33	Pour	Renove
	931	Cottonwood	16			Gend	Renove
	932	Cottonwood	20			Good	Renove
	933	Red mable	10			Good	Resove
	934	White ash	8			Dead	Remove
	935 936	White ash	8 7			Dead	Regove (Bldg. Envelope)
	936 937	White ash Red maple	12			Dead Good	Remove (Bldg. Envelope) Remove (Bldg. Envelope)
	938	Sibenan elm	7			Good	Remove (Bldg, Envelope)
	939	Cottonwood	15			Good	Save
	941	Red maple	10		:	Good	Redove
	942	White ash	8			Dead	Renove
	943	Cottonwood	10			Good	Remove
	944	Siberian e'm	12	. [		Good	Renove
	945	Siberian elm	12			Bood	Bave
	946	Red maple	12			Good	Remove
	947 948	Siberian e'm	12			Good	Save
	948	Siberian e'm Siberian e'm	14 15			Good Good	Save
	950	Siberian e'm	9			Gead	Save
	952	Red mable	12	İ		Good	Remove
	954	Siberian eim	ίδ		h	Good	Saye
	955	Cottonwood	12	1		Good	Save
	956	Cottonwood	8			Good	Remove (Bldg. Envelope)
	1917	Boxelder	12			Good	Save (Wetland Area)
	1922	Siberian e'm	10			Good	bave (Wetland Area)
	1924	Cottonwood	<u> </u>			Good	Remove
	1927	Cottonwood Cottonwood	12			Good	Remove
		IL-OHOTWOOD	10			Good	Resove
	1928		44			Occ.	
	1928 1929	Siberian elm	10 12			Poor	Resove
	1928		10 12 8			Poor Good Poor	Resove Resove Resove

TOTAL # OF TREES SURVEYED ON LIVERNOIS ROAD PARCEL

= 350 TREES

**CITY FILE # 15-014** 

"NOT TO BE USED AS CONSTRUCTION DRAWINGS"

### **EXISTING TREES ON PARCEL AT HAMLIN ROAD**

NORWAY	ame SPRUCE	Diam. 1 16	1	1994	Remove(bldg. envelop
CEDAR		6		Poor	Remove(bldg. envelop
BLUE SPE	UCE	20		Good	Save
RED MAP		21		Good	Remove
DOM. APP	and the second of the second	8		Good	Remove
NORWAY		18		Poor	Remove(bldg. envelop
SILVER M	APLE	28		Good	Remove
DOM. APP		В		Good	Remove
WEEPING		В		Good	Remove(bldg. envelop
WEEPING		14	- T	Good	Remove(bldg. envelop
BOXELDE		13		Good	Remove
BASSWO		16		Good	Save
BASSWO		22		Good	Save
	K HICKORY	16		Good	Hemove
BLACK CH		15		Good	Remove
BASSWO	00	15		Good	Save
BASSWO		22		Good	Sa∀e
BASSWO	DD	11		Good	Save
SHAGBAF	K HICKORY	14		Good	Save
NORWAY		10	· · · · · · · · · · · · · · · · · · ·	Good	Remove
CEDAR		8	]	Poor	Remove
CEDAR		g		Poor	Remove
SILVER M	APLE	24	1	Good	Remove
CEDAR		10		Good	Remove
CEDAR		10	1	Good	Remove
SILVER M	APLE	26		Good	Hemove
CEDAR		10		Poor	Remove
GEDAR		12		Poor	Remove
GEDAR		11		Poor	Remove
GEDAR		13		Poor	Remove
BLUE SPI	UČE	9		Poor	Remove
GEDAR		11		Poor	Remove
CEDAR		13		Poor	Renove
CEDAR		12		Poor	Save
CEDAR		ii		Poor	Save
CEDAR	Address made	12		Poor	Save
BOXELDE	3	28		Good	Save (Wetland Area
SIBERIAN		26		Good	Save (Wetland Area
SILVER M		24		Good	Remove
SILVER M		14		Good	Remove
BOXELDE		14		Good	Remove
RED MAP		18		Good	Save
BLUE SPE		14		Good	Save
RED MAP		18	1	Good	Save
DOM. API		8		Good	Save
DOM. API		12		Good	Save
BLACK W		12		Good	9a∀e
BLACK W		13		Good	Save
BLACK C		. 8		Good	Save
BLACK W		11		Good	Save
BLACK W		13		Good	Save
BLACK W		14		Good	Save
BLACK W		14		Good	Save
DOM. APP		В		Good	Save
WEEPING		12		Good	Save
BLACK C		8		Good	Save
BLACK W		18		Good	Hemove
BOXELDE		10		Good	Save
BIRCH	.34	10		Good	Save
WEEPING	WILLOW	32		Good	Save
BOXELDE	₹	18		Geed	Save (Wetland Area
BIRCH		13		Good	Remove
BOXELDE	₹	9		Good	Remove
BOXELDE		10		Good	Hemove
WHITE OF		12		Good	Hemove
BLACK LO		16	- , · f · · · · · · · · · · · · · · · · ·	Good	Hemove
SILVER		22		Good	Remove
SILVER N		12		Good	Remove
BLACK L		17		Gööd	Remove
SIBERIAN		14		Good	Remove
COTTON		18		Good	Remove
RED MAP		12		Good	Hemove
SIBERIAN		12		Good	Remove
DOM, API		13		Good	Remove
ASH		7		Good	Remove
BLACK C	ERRY	├── <u>- i</u> ѯ		Good	Save (Wetland Area
COTTONY		18	·····	Good	Save (Wetland Area
	K HICKORY	10		Good	Save (Wetland Area
COTTONY		18		Good	Save (Wetland Area
COTTONY		24		Good	Save (Wetland Area
SIBERIAN		10		Good	Save (Wetland Area
ASH		10		Good	Save (Wetland Area
RED MAP	E	16		Poor	Save (Wetland Area
BOXELDE		8		Good	Save (Wetland Area
RED MAP		12		Good	Save (Wetland Area
RED MAP		10		Good	Save (Wetland Area
RED MAP		18	1	Good	Save (Wetland Area
COTTONY		20		Good	Save (Wetland Area
COTTONY		19	1	Good	Save (Wetland Area
	K HIČKORY	7		Good	Save (Wetland Area
SIBERIAN		8	1	Good	Save (Wetland Are
SIBERIAN		18		Good	Save (Wetland Are
ASH		12		Poor	Save (Wetland Are
SIBERIAN	FIM	12		Good	Save (Wetland Are
WEEPING		21		Good	Save (Wetland Are
WEEPING		21	4.	Good	Save (Wetland Are
WEEPING		30		Good	Save (Wetland Are
BLACK LO		15		Good	Remove(bldg, envelo
SIBERIAN		20		Good	Remove(bldg, envelo
SIBERIAN		14		Good	Save (Wetland Are
BLACK W		8		Good	Remove (bldg. envelo
COTTON		18		Poor	Remove
		21		Good	Save (Wetland Area
WEEPING			!	Good	Save (Wetland Are

8	Common Name BOXELDER	Diam. 1 10	Diam. 2	Diam. 3	Condition Good	Notes Save (Wetland Area
	COTTONWOOD	18			Good	Save (Wetland Area
		8			Good	
	BLACK WALNUT					Remove
	COTTONWOOD	15			Good	Remove(bldg. envelop
4	SIBERIAN ELM	14			Good	Save (Wetland Area
5	RED MAPLE	11			Good	Save (Wetland Area
6	BLACK WALNUT	12			Good	Remove
	BLACK WALNUT	12			Good	Remove(bldg. envelop
	BLACK WALNUT	14			Good	Save (Wetland Area
Same 1	BLACK WALNUT	18			Good	Remove(bldg, envelop
	RED MAPLE	8	4		Good	Remove (Diag. envero
	fs	8	1		Good	
	BOXELDER					Save (Wetland Area
	WHITE OAK	42			Good	Remove
	SHAGBARK HICKORY	20			Good	Remove
	WHITE OAK	36			Good	Remove
5	SUGAR MAPLE	14	į.		Good	Remove
В	WHITE OAK	18	-		Good	Renove
7	BASSWOOD	12			Good	Remove
	BIRCH	21			Good	Remove(bldg. envelop
	COTTONWOOD	38			Good	Remove(bldg. envelop
	RED MAPLE	15			Good	
			.4			Remove(bldg. envelo
	COTTONWOOD	18			Good	Remove(bldg, envelo
	BLACK WALNUT	12			Good	Remove(bldg. envelop
3	BLACK WALNUT	15			Good	Hemove(bldg. envelop
4	BLACK WALNUT	18			Good	Aemove(bldg. envelop
	SIBERIAN ELM	12	1		Good	Hemove(bldg. envelo
in the i	BLACK WALNUT	12	·†		Good	Hemove
	RED MAPLE	13	1		Good	
						Remove
	WHITE OAK	46	. i		Good	Bave (Wetland Area
9	RED MAPLE	26			Good	Save (Wetland Area
ŭ	SHAGBARK HICKORY	13	1		Good	Remove
	BHAGBARK HICKORY	14			Good	Save (Wetland Area
	WHITE OAK	28			Good	Remove
	SHAGBARK HICKORY	18			Good	
						Hemove
	RED OAK	36			Good	Remove
	SHAGBARK HICKORY	12			Good	Remove
6	SHAGBARK HICKORY	21			Good	Remove
7	BASSWOOD	12	1		Good	Remove
	SIBERIAN ELM	9	·		Good	Remove
	SUGAR MAPLE	12			Good	
			-Ļ			Hemove
	RED MAPLE	11			Good	Remove
	BLACK WALNUT	8	. [		Good	Save
2	RED MAPLE	8			Good	Save
3	WHITE OAK	28	- f		Good	Save (Wetland Area
	SHAGBARK HICKORY	12			Good	Save (Wetland Area
	WHITE OAK	37			Good	Save (Wetland Area
		12	+		Good	
	RED MAPLE		-4	! (		Save (Wetland Area
	SHAGBARK HICKORY	12			Good	Save (Wetland Area
9	WHITE OAK	30	.).		Good	Save (Wetland Area
0	WHITE OAK	34			Good	Save (Wetland Area
1	RED MAPLE	12			Good	Save (Wetland Area
2	WHITE OAK	14	1000		Good	Save (Wetland Area
	WHITE DAK	20	Service of the service of		Good	Save (Wetland Area
		13			Good	
- 1	BLACK WALNUT					Save (Wetland Area
	BASSWOOD	9	. [		Good	Save (Wetland Area
6	SHAGBARK HICKORY	15	1		Good	Save (Wetland Area
7	SHAGBARK HICKORY	В			Good	Save (Wetland Area
8	RED MAPLE	14	1		Good	Remove
	BLACK CHERRY	В			Good	Remove
	SHAGBARK HICKORY	16			Good	Remove
			+	ţ		
1	COTTONWOOD	19		ļ	Good	Remove
2	WHITE OAK	28			Good	Henove
3	COTTONWOOD	18		ł	Poor	Remove
4	WHITE OAK	38	1	ì	Good	Remove
	WHITE OAK	29	1	T	Good	Save (Wetland Area
6	RED MAPLE	13		1	Good	Remove
		12			Good	
	RED OAK			}		Save (Wetland Area
8	RED OAK	30		ļ	Good	Remove
9	SIBERIAN ELM	8			Good	Hemove
	RED OAK	30	1		Good	Remove
1	RED OAK	24			Good	Remove
	ASH	10	1		Fair	Remove
	WHITE OAK	24			Good	Save (Wetland Area
	RED MAPLE	8		r	Good	Save (Wetland Area
	BOXELDER	9	1		Good	Save (Wetland Area
6	SIBERIAN ELM	8	1.		Good	Save (Wetland Area
7	RED OAK	25			Good	Save (Wetland Area
8	RED MAPLE	8			Good	Save (Wetland Area
9	RED OAK	13			Good	Save (Wetland Area
0	SIBERIAN ELM	10	1		Good	
			-			Save (Wetland Area
	SHAGBARK HICKORY	13		ļ	Good	Remove
	RED OAK	18			Good	Remove
3	SIBERIAN ELM	8		F	Good	Remove
	SHAGBARK HICKORY	8	T	}	Good	Remove
5	BASSWOOD	12	··   · · · · · · · · · · · · · · · · ·		Poor	Remove
			-			
6	RED OAK	20	}	T a	Good	Remove
	SIBERIAN ELM	14	1	f	Good	Save (Wetland Area
9	BIRCH	13	1.		Good	Save (Wetland Area
e - 1	COTTONWOOD	15	1		Good	Save (Wetland Area
9						

ag No.	Common Name	Diam. 1	Diam. 2 Diam. 3	Condition	Notes
701	RED OAK	32	Andrew Statistics to the Conference of the comments	Good	Save
702	COTTONWOOD	23		Good	Save (Wetland Area
703	ASH	14		Good	Remove
704	REDOAK	38		Good	Remove
705	WHITE OAK	32		Good	8ave (Wetland Area
706	WHITE OAK	25		Good	Šave (Wetland Area
707	SIBERIAN ELM	12		Good	Save (Wetland Area
708	SIBERIAN ELM	8		Good	Save (Wetland Area
709	RED MAPLE	19		Good	Save (Wetland Area
710	ASH	13		Poor	Save (Wetland Area
711	ASH	14		Poor	Save (Wetland Area)

TOTAL # OF TREES SURVEYED ON HAMLIN ROAD PARCEL

= 201 TREES

TOTAL # OF REGULATED TREES TO REMAIN
% OF REGULATED TREES TO REMAIN

ALL UNDESIRABLE TREES (ASH, BOX ELDER, POPLAR, ELM, SILVER MAPLE, TREE OF HEAVEN, CATALPA, RUSSIAN OLIVE, MULBERRY, BUCKTHORN, WILLOW, SIBERIAN ELM) ARE TO BE REMOVED, EXCEPT IN NATURAL AREA.

PRESERVE A MINIMUM 37% OF THE TOTAL NUMBER OF REGULATED TREES. HOWEVER TREES CONTAINED WITHIN THE DESIGNATED BUILDING ENVELOPE SHALL NOT COUNT TOWARDS THE PRESERVATION PERCENTAGE. TREES
WITHIN THE BUILDING ENVELOPE ARE NOT REQUIRED TO BE
RELOCATED OR REPLACED.

ALL UNHEALTHY/DEAD TREES NOT LOCATED IN WETLAND AREAS TO BE REMOVED.

3. HEALTHY TREES PRESERVED SHALL APPLY TO LANDSCAPE REQUIREMENTS: REPLACEMENT TREES REQUIRED: 142 TREES

REPLACEMENT TREES PROVIDED: 57 STREET TREES
85 TREES REQUIRE REMAINING REPLACEMENT TREES WILL HAVE PAYMENT IN LIEU =119 TREES = 45% OF REG. TREES

(UMS) VISA (19-1000-February, U.A. UMERIL SHL FIRM 11/10/2015 SHOOT FR

-002-PSP.dwg, 07A- DRANAGE PI

775 (S. P.W. 1937 28 S88'51'51"W (M) 314.56' (R&M)

### WUUDLAND FARK

A PART OF THE NORTHEAST 1/4, OF SECTION 28, TOWN 3 NORTH, RANGE 11 EAST, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN

NOTES:

1. PROPOSED GRADES WILL MATCH EXISTING ELEVATIONS AT PROPERTY LINES.

2. 2 PARKING SPACES ARE PROVIDED IN EACH GARAGE, ALONG WITH 2 SPACES IN EACH DRIVEWAY. 4 SPACES X 48 UNITS = 192 TOTAL PARKING SPACES PROVIDED.

3. NO TRAINSFORMERS CAN BE SHOWN AT THIS TIME.

4. ALL SIGNS MUST WEET THE REQUIREMENTS OF SECTION 138-12306 AND CHAPTER 134 OF THE CITY CODE OF ORDINANCES AND APPROVED UNDER SEPARATE PERMIT AS ISSUED BY THE BUILDING DEPARTMENT.

5. STREET TREES WILL BE PROVIDED IN ACCORDANCE WITH CITY OF ROCHESTER HILLS REQULATIONS.

6. UNDESSIGNATION WORTH OF UTILITY EASEMENTS WILL NOT DECREASE THE BUILDING ENVELOPE OF ANY UNIT BELOW THAT INDICATED.

7. ALL PROPOSED LESSMENT AGREEMENTS SHALL BE REVIEWED AND APPROVED BY THE CITY PRIOR TO FINAL SITE PLAYER CRASTRIGHTON DRAWINGS WILL ESTABLISH A CONSTRUCTION SEQUENCE THAT WILL PROVIDE FOR THE EXCAVATION OF THE DETERINOR ASSN.

9. THE INTENDED USE OF THE PROPOSED DEVELOPMENT IS FOR SINGLE-FAMILY RESIDENCES.

10. OPEN SPACE AREAS ARE TO REMAIN UNDEVELOPED AND MAY BE USED FOR PASSIVE AND ACTIVE RECREATION.

11. THE PROPERTY HAS BEEN STAKED AT EACH CORNER WITH A CLEARLY VISIBLE MARKER.

12. LIVERNOIS AND HAALIN ROAD IMPROVEMENTS TO BE INDICATED IN GREATER DETAIL ON CONSTRUCTION DRAWNIGS.

13. CONSTRUCTION TYPE IS SINGLE FAMILY RESIDENTIAL (TYPE, VB) USE GROUP R-3.

IZ. UPLITIOUS AND HAMILIN ROAD IMPROVEMENTS TO BE INDICATED IN GREATER DETAIL ON CONSTRUCTION DRAWNOS.

13. CONSTRUCTION TOPE IS SHOLE FAMLY RESDENTIAL. (TYPE VB) USE GROUP R-3.

14. APPROVIMENT SOLARSE FOOTAGE OF HOMES IS 2,200-3,200 SQLFT.

14. APPROVIMENT SOLARSE FOOTAGE OF HOMES IS 2,200-3,200 SQLFT.

14. APPROVIMENT SOLARSE FOOTAGE OF HOMES IS 2,200-3,200 SQLFT.

15. FOR THE PROVIMENT OF THE ROAD COMMISSION FOR OAKLAND COUNTY FOR WORK WITHIN THE LUPERNOS ROAD RIGHT OF WITHIN THE LUPERNOS ROAD RIGHT OF WORK SOLARSE FOR DRAWAGE CHARACTERISTICS) 108 CAPAC SANDY LOAM, BROOKSTON AND COMMODOL LOANS WHICH IS SUITABLE FOR SNIGE FAMILY RESDENTIAL DEVELOPMENT.

17. THIS LAYOUT WAS CHOSEN OVER OTHERS BASED ON A DESIRE TO PRESERVE THE MAX NO. OF REGULATED TREES LOCATED IN OPEN SACE AND TO PROMOTE TRAFFIC SAFETY WITHIN THE SITE MAX OF STEL IS.

18. RELIEF FROM THE SIDEWALK REQUIREMENT ON NORTH SIDE OF CONTRAD DRIVE ACCROSS FORM UNITS 5 THRU 12.

19. NO SITE LICHTING IS PROPOSED.

20. BEST MANAGEMENT PRACTICES (BUP) WILL BE IMPLEMENTED DURING THE CONSTRUCTION PHASE OF THIS PROJECT.

21. ALL DISTURBED WETLAND AREAS TO BE RESTORED TO THERE DURINAL CRAPE WITH COMPANY CAPACE.

PROJECT.

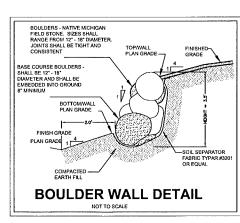
21. ALL DISJURBED WETLAND AREAS TO BE RESTORED TO THERE ORIGINAL GRADE WITH ORIGINAL SOILS OR EQUIPALENT SOILS AND SEEDED WITH A CITY APPROVED WETLAND SEED MIX.

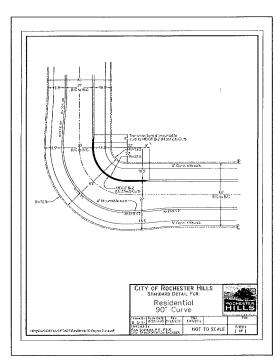
22. ALL SIGNS MUST MEET THE REQUIREMENTS OF SECTION 138—12,306 AND CHAPTER 134 OF THE CITY CODE OF ORDINANCES AND BE APPROVED UNDER SEPARATE PERMITS ISSUED BY THE BUILDING DEPARTMENT.

### SANITARY SEWER BASIS OF DESIGN:

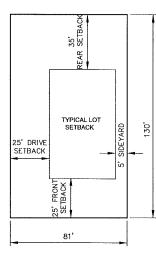
No. of Lots:	48			
Population =	48 Lots x	3.5 People ≈	168	
Average Flow ≃	168 People x	100 GPCPD	= 0.026 cfs	5
	86400 Sec/ Day x	7.48 Gal / C.F.		
Peaking Factor =	18 + (SQR)	0.168 =	4.175	
_	4 + (SQR)	0.168		
Peak Flow =	16800 GPD x	4.175 =	70135 GPD	
		-	0.100 of	

CAPACITY OF RECEVING SEWER: 12" 8 0.22% = 1.67 CFS

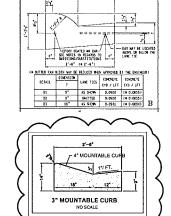


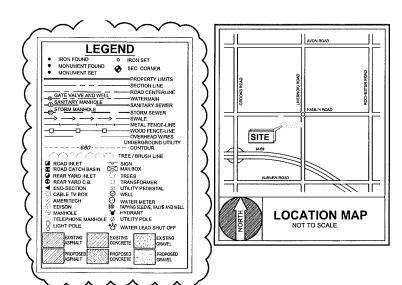


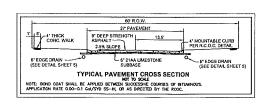
SHEET



# TYPICAL LOT DETAIL







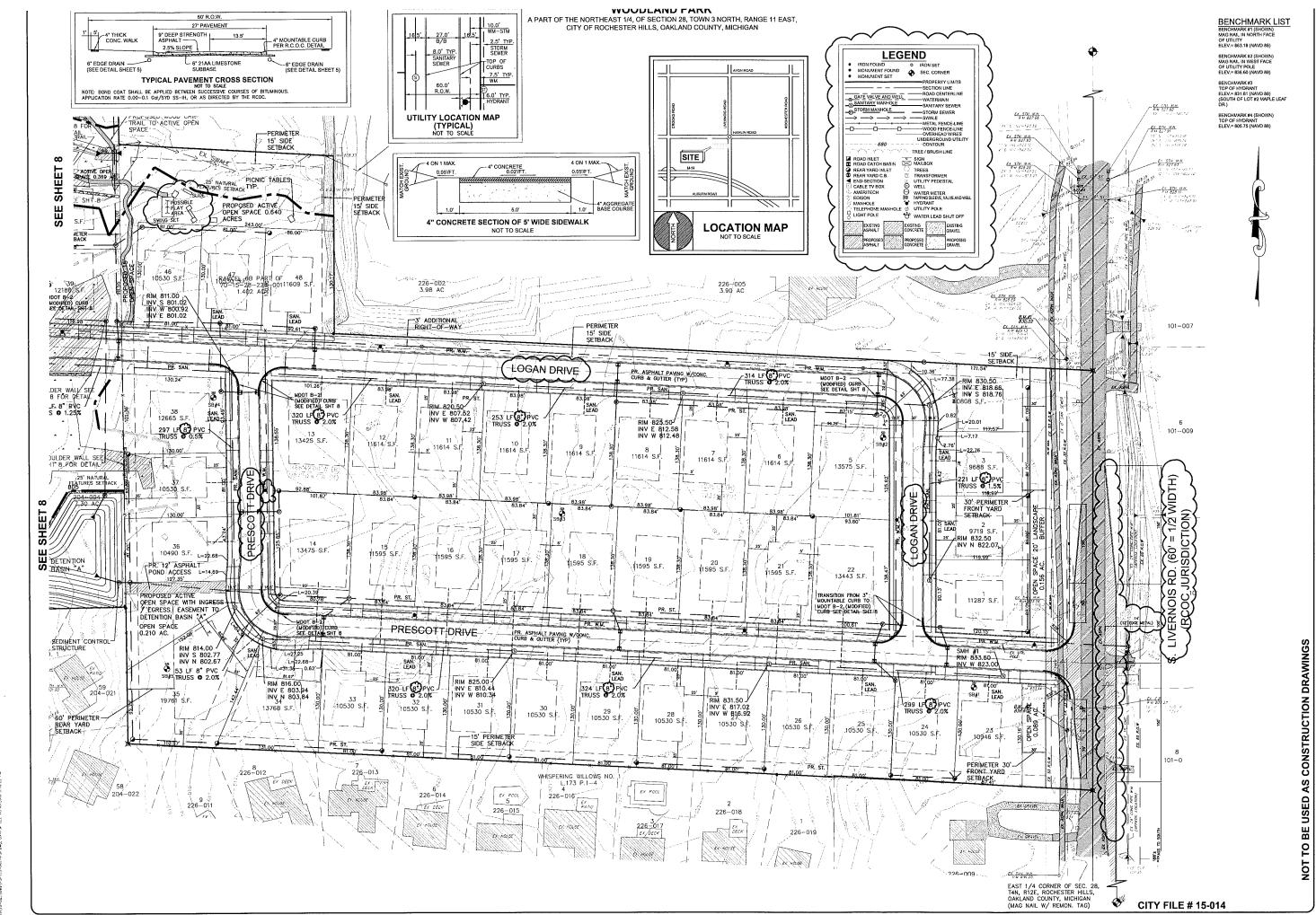


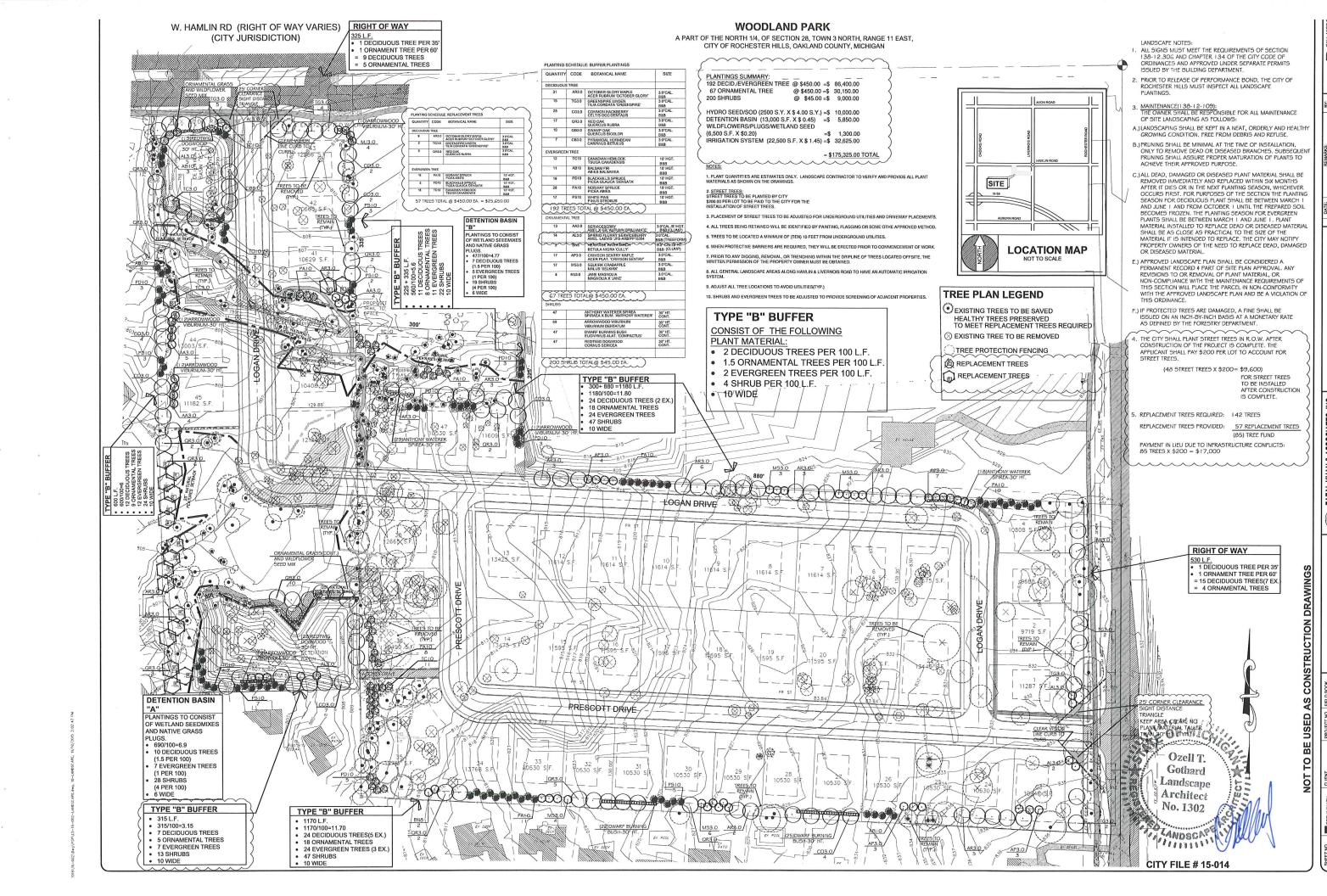
BENCHMARK LIST BENCHMARK #1 (SHOWN) MAG NAIL IN NORTH FACE OF UTILITY ELEV.= 863.18 (NAVD 88)

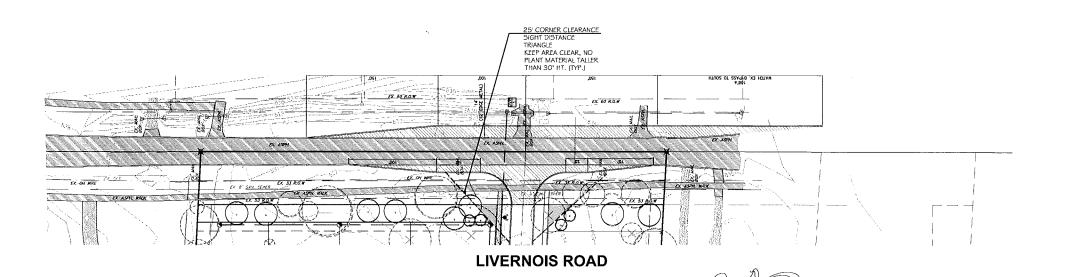
BENCHMARK #2 (SHOWN) MAG NAIL IN WEST FACE OF UTILITY POLE ELEV.= 836.60 (NAVD 88)

BENCHMARK #3 TOP OF HYDRANT ELEV.= 831.81 (NAVD 88) (SOUTH OF LOT #2 MAPLE LEAF)

BENCHMARK #4 (SHOWN) TOP OF HYDRANT ELEV.= 805.75 (NAVD 88)







### SITE EXAMINATION:

1. CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS, AND ELEVATIONS IN THE FIELD BEFORE STARTING WORK, AND NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES, BETWEEN DRAWINGS AND FIELD CONDITIONS IF ENCOUNTERED.

1. NEITHER THE OWNER NOR THE LANDSCAPE ARCHITECT WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL STATE AND FEDERAL SAFETY AND HEALTH STANDARDS.

2. PRIOR TO THE RELEASE OF THE PERFORMANCE BOND, THE CITY OF ROCHESTER HILLS LANDSCAPE ARCHITECT MUST INSPECT ALL LANDSCAPE PLANTINGS INCLUDING BUT NOT LIMITED TO EXISTING TREES, REPLACEMENT TREES, AND DIFFER PLANTINGS, AND THE FORESTRY DIVISION MUST INSPECT ALL RIGHT-OF-WAYS TO IDENTIFY ANY PLANTINGS INSV OR EXISTING THAT POSE A HAZARD TO THE SAFE USE OF THE RIGHT-OF-WAY FORESTRY MAY REQUIRE THE DEVELOPER TO REMOVE AND POSSIBLY REPLACE ANY SUCH TREES.

3. NO TREE OR SHRUB MAY BE PLANTEO WITHIN THE TRIANGULAR AREA FORMED AT THE INTERSECTION OF ANY STREET RIGHT-OF-WAY AT A DISTANCE OF 25 FROM THER POINT OF INTERSECTION, NO TREE OR SHRUB MAY BE PLANTED IN THE TRIANGULAR AREA FORMED AT THE INTERSECTION OF ANY DRIVEWAY WITH A PUBLIC SIDEWALK AT A DISTANCE ALONG EACH LINE OF 15' FROM THEIR POINT OF INTERSECT

1. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO LOCATE AND PROTECT ANY UNDERGROUND OR CONCEALED CONDUIT, FULMBING OR OTHER UTILITIES WHERE NEW WORK IS BEING PERFORMED. IN NO CASE SHALL LANDSCAPE MATERIAL BE FLANTED IN A WAY WHICH WILL INTERFERE WITH OR CAUSE DAMAGE TO OVERHEAD OR UNDERGROUND UTILITIES

ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF A

-SHADE TREES AND SHRUBS MUST BE PLANTED AT LEAST 5' FROM THE EDGE OF A

-SHADE TREES AND SHRUPS MUST BE PLANTED AT LEAST 10 FROM THE LOCAL OF ...
EVERIGREEN AND ORNAMENTAL TREES MUST BE PLANTED AT LEAST 10 FROM THE EDGE OF A PUBLIC WALKWAY OR ROADWAY.
-ALL TREES AND SHRUPS MUST BE PLANTED AT LEAST 10 FROM ANY FIRE HYDRANT.
-SHADE AND EVERGREEN TREES MUST BE PLANTED AT LEAST 10 FROM THE NEAREST OVERHEAD WIRE AND AT LEAST 10 FROM THE NEAREST OVERHEAD WIRE AND AT LEAST 10 FROM THE NEAREST UNDERGROUND UTILITY.

1. ALL WORK SHALL CONFORM TO ALL FEDERAL STATE AND LOCAL REQUIREMENTS FOR INSTALLATION AND MAINTENANCE.

### CLEARZONE:

1. THE CLEARZONE SHALL BE MAINTAINED AT ALL INTERSECTIONS THAT INGRESS AND EGRESS TO THE STRE IT IS THE OWNERS RESPONSIBILITY TO MAINTAIN THE PLANT MATERIAL AT A HEIGHT OF NOT OVER THIRITY (30) INCHES ABOVE PAVEMEN 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 A D.A. GUIDELINES.

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

### CONFLICTS:

1. SHOULD A CONFLICT ARISE BETWEEN SPECIFICATIONS, CODES, STANDARDS, ORDINANCES AND PLANS, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.

2. WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK, SUCH DETAILS BE THE SAME AS FOR SIMILAR WORK SHOWN ON THE DRAWING AND MEET WITH MANUFACTURERS SPECIFICATIONS.

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

2. THE DEVELOPER AND/OR THE CITY OF ROCHESTER HILLS LANDSCAPE ARCHI SHALL HAVE THE RIGHT, AT ANY STAGE OF THE INSTALLATION, TO REJECT ANY OR MATERIAL THAT DOES NOT MEET THE REQUIREMENTS OF THE PLANS OR SPECIFICATIONS

3. ANY CHANGES OR DEVIATIONS FROM THESE PLANS MUST BE APPROVED IN WRITING BY THE OWNER AND THE CITY OF ROCHESTER HILLS. THEY SHALL POSSESS THE SAME CHARACTERISTICS AS INDICATED ON THE PLANS AND SPECIFICATIONS.

### **MEASUREMENTS:**

1. BEFORE COMMENCING WORK OR ORDERING ANY MATERIALS, THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND SHALL BE RESPONSIBLE FOR THEM BEING CORRECT. ANY DISCREPANCIES SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DIFFERENCES. BETWEEN ACTUAL DIMENSIONS AND MEASUREMENTS INDICATED

2. WRITTEN DIMENSIONS SHALL PREVAIL IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWING.

1. TOPSOIL SHALL BE FRIABLE, FERTILE TOPSOIL OF CLAY LOAM CHARACTER CONTAINING AT LEAST 5 x BUT NOT MORE THAN 20 x BY WEIGHT OF ORGANIC WITH A Ph RANGE FROM 6.0 TO 7.0. SOIL SHALL BE FREE FROM CLAY LUMPS. COARSE SAND, PLANT ROOTS, STICKS AND OTHER FOREIGN MATERIALS

1. PLANTING BEDS TO BE MULCHED AND DRESSED WITH A MINIMUM OF SIX (6) INCHES OF SHREDDED HARDBARK (NO ARTIFICIAL COLORS), ALL MULCH SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND PLANNING CONSULTANT WITHIN TWENTY-FOUR (24) HOURS OF PLANTING.

1. CONTRACTOR SHALL SUPPLY THE QUANTITIES NECESSARY TO COMPLETE THE WORK AS SHOWN ON THE DRAWINGS. QUANTITIES LISTED ON THE PLANT LIST ARE APPROXIMATE ONLY

### QUALITY AND SIZE:

1. REQUIRED PLANT MATERIALS SHALL CONFORM TO TYPE STATED ON THE PLANT LIST. SIZES SHALL BE THE MINIMUM STATED ON THE PLANT LIST OR LARGER. ALL INSTALLATION AND MEASUREMENTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE "A.A.N. STANDARDS FOR NURSERY STOCK" AND WITH THE GENERAL PLANTING SPECIFICATIONS AS SET FORTH BY THE LOCAL MUNICIPAL AGENCIES LANDSCAPE ORDINANCE.

2. REQUIRED LANDSCAPE PLANT MATERIAL SHALL SATISFY A.A.N. STANDARDS, BE STATE DEPARTMENT OF AGRICULTURE INSPECTED AND NO. 1 GRADE WITH STRAIGHT, UNSCARRED TRUNK AND WELL-DEVELOPED UNIFORM CROWN (PARK GRADE TREES WILL NOT BE ACCEPTED).

3. THE PLANT MATERIAL SHALL BE NURSERY GROWN AND INSPECTED BY THE OWNERS REPRESENTATIVE BEFORE PLANTING. THE OWNERS REPRESENTATIVE AND THE CITY OF ROCHESTER HILLS LANDSCAPE ARCHITECT RESERVE THE RIGHT TO REJECT ANY PLANT MATERIAL AT ANY TIME.

4. PLANTS DESIGNATED '8&B' SHALL BE BALLED AND BURLAPPED, WITH FIRM BALLS

5. ALL INSTALLED PLANT MATERIALS WILL BE CERTIFIED BY THE STATE OF MICHIGAN DEPARTMENT OF AGRICULTURE TO BE DISEASE-FREE AND PEST-FREE AND NOT OF A SPECIES KNOWN TO CARRY OR BE HOST TO DESTRUCTIVE PATHOGENS OR PESTS.

6. ALL TREES SHALL HAVE A CENTRAL LEADER AND A RADIAL BRANCHING STRUCTURE, PARK GRADE TREES ARE NOT ACCEPTABLE, ALL SHALL BE BALLED AND

### PLANTING:

THE CONTRACTOR IS RESPONSIBLE FOR PLANTING THE MATERIALS AT THE
CORRECT GRADES AND SPACING. THE PLANTS SHALL BE ORIENTED AS TO GIVE THE
BEST APPEARANCE. DO NOT PLANT CLOSER THAN FOUR (4) FEET FROM PROPERTY
LINES.

2. DIG SHRUB PITS ONE (1) FOOT LARGER THAN SHRUB ROOT BALLS. THE PLANTING PITS OF ALL TREES ARE TO BE TWICE THE SIZE OF THE ROOT BALL WHEN THE PLANTING HAS BEEN PROPERLY SET, THE PIT SHALL BE BACKFILLED WITH ONE (1) PART TOPSOIL AND ONE (1) PART SOIL FROM EXCAVATED PLANTING HOLE. GRADUALLY FILLING, PATTING AND SETTLING WITH WATER.

3. REMOVE ALL TWINE, WIRE AND BURLAP FROM THE TOP ONE THIRD OF THE ROOT BALL. REFER TO DETAILS.

4. ALL LANDSCAPE AREAS, SHALL BE EXCAVATED OF ALL BUILDING MATERIALS, DEBRIS AND POOR SOILS TO A DEPTH OF EIGHTEEN (18) INCHES AND BACKFILLED WITH A GOOD MEDIUM TEXTURED PLANTING SOIL (LOAM OR LIGHT YELLOW CLAY). ALL LANDSCAPE AREAS TO HAVE SIX (8) INCHES OF TOPSOIL, AND AREA TO BE CROWNED A MINIMUM OF SIX (6) INCHES HIGHER OR AS SPECIFIED ON PLANS AND DETAILS THAN ADJACENT CURBS OR WALKS AFTER EARTH SETTLING.

5. ALL LARGE TREES AND EVERGREENS TO BE STAKED, GUYED AND WRAPPED. TREES TO BE MULCHED WITH A FOUR (4) FOOT WIDE BY MINIMUM OF SIX (6) INCH DEEP SHREDDED BARK RING.

6. ALL PLANT MATERIAL TO RECEIVE TERRA-SORB SUPERABSORBENT POLYMER, FOLLOW MANUFACTURERS SPECIFICATIONS.

1. ALL PLANT MATERIAL SHALL BE PRUNED AND INJURIES REPAIRED. THE AMOUNT OF PRUNING SHALL BE LIMITED TO THE REMOVAL OF DEAD OR INJURED TWIGS. CUTS SHOULD BE FLUSH, LEAVING NO STUBS.

1. ALL NEW LAWN AREAS TO BE SOD OVER 6" TOPSOIL

### TREE PROTECTION:

1. REPLACEMENT TREES MAY NOT BE PLANTED WITHIN THE DRIP LINE OF EXISTING

3. FOR EXISTING TREE PROTECTION. A FOUR (4) FOOT HIGH WOODEN SNOW FENCE OR OTHER RIGID MATERIAL IS TO BE ERECTED AROUND THE TREE DIRIPLINES PRIOR TO LAND CLEARING AND SITE CONSTRUCTION. IL SHALL BE MAINTAINED HROUGHOUT THE SITE DEVELOPMENT PERIOD. NO CUTTING, FILLING OR TRESPASSING SHALL OCCUR INSIDE THE TREE PROTECTION FENCING

1. THE CONTRACTOR AGREES TO GUARANTEE ALL PLANT MATERIALS FOR A PERIOD OF TWO (2) YEARS. AT THAT TIME THE CITY OF ROCHESTER HILLS LANDSCAPE ARCHITECT RESERVES THE RIGHT FOR A FINAL INSPECTION. PLANT MATERIAL WITH 25X DIE BACK. AS DETERMINED BY THE OWNERS REPRESENTATIVE SHALL BE REPLACED. THIS GUARANTEE INCLUDES THE FURNISHING OF NEW PLANTS. LABOR AND MATERIALS. THESE NEW PLANTS SHALL ALSO BE GUARANTEED FOR THE PERIOD OF TWO (2) YEARS.

2. ALL DEAD PLANT MATERIALS SHALL BE REMOVED AND REPLACED AS REQUIRED IN ORDER TO MAINTAIN AN ATTRACTIVE LANDSCAPE AT ALL TIMES.

1. ALL LANDSCAPED AREAS TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE LOCAL MUNICIPAL AGENCIES STANDARDS AND REQUIREMENTS. IN A HEALTHY GROWING CONDITION, NEAT AND ORDERLY IN APPEARANCE AND FREE OF REFUSE

### ADDITIONAL NOTES:

1. LAWN TREES TO BE MULCHED WITH A FOUR (4) FOOT WIDE BY MINIMUM OF SIX (6) INCH DEEP SHREDDED BARK RING OR APPROVED ALTERNATIVE DESIGN FOR TRUNK PROTECTION

2. BACKFILL BEHIND ALL CURBS AND ALONG SIDEWALKS, AND COMPACT TO TOP OF CURB OR WALK TO SUPPORT VEHICLE AND PEDESTRIAN WEIGHT WITHOUT SETTLING.

3. PROVIDE POSITIVE DRAINAGE FOR ALL LANDSCAPE AREAS.

4. THE OWNER OR DEVELOPER MUST NOTIFY THE CITY OF THE INSTALLATION SCHEDULE AND PROVIDE AN OPPORTUNITY FOR INSPECTION ON SITE BEFORE PLANTS ARE PURCHASED.

5. THE FINAL APPROVED LANDSCAPE PLAN MUST BE AVAILABLE FOR ON SITE INSPECTION AT ALL TIMES.

6. PREVENT DAMAGE TO ANY UTILITIES OR THE INTERRUPTION OF UTILITY SERVICES, AND PREVENT DAMAGE OR LITTERING ONTO ADJACENT PROPERTY OR PUBLIC STREETS, SIGNAVALES OR OTHER PUBLIC THOROUGH FARES WITH DIRT, SECUMENT, A WATER, PLANT MATERIAL OR OTHER MISCELLANEOUS DEBRIS WHICH CONSTITUTE VALUE OF THE PUBLIC MUSIANCE OR HAZARD, All SUCH DEBRIS SHALL BE PROMPTLY REMOVED.

7. PARK GRADE TREES ARE NOT ACCEPTABLE.

8. SPECIES OF PROPOSED PLANT MATERIALS MAY BE ALTERED UPON NOTIFICATION AND APPROVAL BY THE CITY.

9. PLANT MATERIALS, EXCEPT CREEPING VINE TYPE PLANTINGS, SHALL NOT BE LOCATED WITHIN FOUR (4) FEET OF THE PROPERTY LINE. 10. TREE WRAP FOR DECIDUOUS AND ORNAMENTAL TREES TO BE REMOVED AFTER

11. PROTECTIVE FENCE WRAP TO BE STAKED WITH "T-POSTS".

FIGURE TO A PRINCIPAL PROPERTY OF A PARTY OF ENT PLANTE DA HOUG

TREE PROTECTION DETAIL

DECIDUOUS TREE PLANTING DETAIL

Proposed grades are to much the entiring the of the TFF. No grading either cut or fill is pound of any tree deal control for preservation.

7. During the construction process to person shall smach say device

Regulated trees located off-the on adjacent properties that may be affected by construction operations trees by protected as defined here:

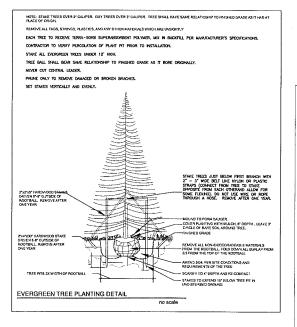
RTICLE 5-SCHEDULE OF REGIONS and Exceptions state 136-200 (Cornel Listense Front Stat

-\*CID)

ARTICLE 5-SCHEDULE OF REGULATIONS Chapter 2-Supplemental Provisions and Exce

Collector Street

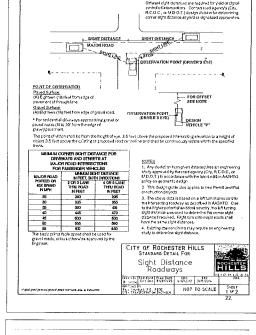
STAVE TREES IT CALIFER AND UNDER GUY TREES OVER 3" CALPER. NOW ALL TAGS, STRINGS, PLASTICS, AND ANY OTHER MATERIALS EACH TREE TO RECEIVE TERRA SORB SUPERABSORSENT POLYMER, MX IN BACKFUL FRE BALL SHALL BEAR SAME RELATIONSHIP TO PROSHED GRADE AS IT BOTE ORIGINALLY FRUNE TO REMOVE DEAD AND BROKEN GRANCHES. TREE WRAP FROM TOP DOWN - REMOVE AFTER OVE MOUND TO FORM A 4 FOOT WIDE AND & DIEP EARTH SAUCER --COMER PLANTING WITH MULCH, 8" DEPTH . LEAVE 3" CRICLE OF BARE SOIL AROUND TREE. - AMENO SOIL PER SITE CONOTIONS AND REQUIREMENTS OF THE TREE STAKES TO EXTEND 18" BELOW TREE PIT IN

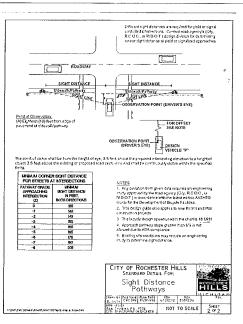


MAINTENANCE, INSTALLATION, AND IRRIGATION

Landscape plantings shall be installed between April 1 and November 15, in a sound, workman like manner and according to accepted good planting procedures. (See City Planting Detail.) Maintenace of required plantings by the owner shall be carried out so as to present a healthy, neat and orderly appearance, free from refuse and debris and according to city of Rochester Hills ordinance requirements. All unhealthy and dead material shall be replaced within one (1) year, or the next appropriate planting period, whichever comes first. All landscaped areas shall be provided with an underground irrigation system. Tree stakes and guy wires to be removed after one yea tree wrap is to be removed after one winter season. Trees shall be guaranteed for two growing

IRRIGATION
All landscape areas shall be automatically irrigated with an underground irrigation system.





DRAWIN

CONSTRUCTION

AS

USED

BE

5

NOTES:

AREA OF IMPACT 1,679,41 S.F. 9,457.61 S.F. 1,794.47 S.F.

12,931.49 S.F. (0.30 ACRE)

BEST MANAGEMENT PRACTICES (BMP) WILL BE IMPLEMENTED DURING THE CONSTRUCTION PHASE OF THE PROPOSED PROJECT.

TEMPORARY IMPACT AREAS ARE TO BE RESTORED TO ORIGINAL GRADE WITH ORIGINAL SOILS OR EQUIVALENT SOILS AND SEEDED WITH A CITY APPROVED WETLAND SEED

MDEQ PART 303 AND PART 301 PERMIT WILL BE OBTAINED AND SUBMITTED TO THE CITY FOR REVIEW.

NOTES:

1. WETLAND SURVEYED AND MEASURED ON-SITE (ASTI REPORT 6/4/2015) 1.28 ACRES

2. TOTAL WETLAND IMPACT

0.30 AC. / 1.28 AC.= 0.23 OR 23%

3. MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ) PRE-APPLICATION MEETING.

FILE NUMBER=14-63-0272-P



LEG	END
<ul> <li>IRON FOUND</li> </ul>	O IRON SET
<ul> <li>MONUMENT FOUND</li> </ul>	A SEC. CORNER
<ul> <li>MONUMENT SET</li> </ul>	DEC. CONTEN
	PROPERTY LIMITS
	SECTION LINE
GATE VALVE AND WELL	ROAD CENTERLINE
SAIE VALVE AND WELL	WATERWA'N
SANITARY MANHOLE	SANITARY SEWER
STORM MANHOLE	- STORM SEWER
<del>→</del> → → —	>SWALE
0 0	WOOD FENCE-LINE
	OVERHEAD WIRES
	UNDERGROUND UTILITY
$X_1 \otimes X_2 \otimes X_3 \otimes X_4 $	TREE / BRUSH LINE
☑ ROAD INLET	SIGN
	MA'LBOX
	√ TREES
REAR YARD C.B.	TRANSFORMER
■ END-SECTION	UTILITY PEDESTAL
CABLE TV BOX	<ul> <li>Ø WELL</li> <li>Ø WATER METER</li> <li>Ø TAPPAG SLEEVE, VALVE AND WELL</li> </ul>
O AMERITECH	WATER METER
EDISON	TAPPING SLEEVE, VALVE AND WELL  HYDRANT
MANHOLE	
TELEPHONE MANHOLE	
S LIGHT POLE	WATER LEAD SHUT OFF
PEXISTING (2002)	EXISTING DISTING
ASPHALT I	CONCRETE
2272	2.655.27
PROPOSED	PROPOSED PROPOSED
//// ZIASPHALT TOSECCOS	CONCRETE

NOT TO BE USED AS CONSTRUCTION DRAWINGS

**CITY FILE # 15-014**