

J2024-0026 PSC2024-0002 Revision #2 Received 11/4/2024

City of Rochester Hills Planning & Economic Development

Site Plan Rev Reviewed for compliance with City Ordina Conditions and mark-ups noted throughout plan

view	/
nce, Building and Fire Codes	
set must be addressed prior to final	\

Department	Reviewer	Approved
Assessing	Assessing	Yes
Building	Jason Rhoades 248-841-2435 RhoadesJa@RochesterHills.org	Yes
Engineering - Utilities	Jason Boughton 248-841-2490 BoughtonJ@RochesterHills.org	Yes
Engineering Legal	Seth Bucholz 248-841-2491 bucholzs@rochesterhills.org	YES Date:11/12/2024
Fire	Capt. Ann Echols 248-841- EcholsA@RochesterHills.org	2701 Yes
Natural Resources	Matt Einheuser 248-841-2551 EinheuserM@RochesterHills.org	Yes
Planning	Chris McLeod 248-841-2572 mcleodc@RochesterHills.org	Yes
Traffic	Keith Depp 248-841-2503 DeppK@RochesterHills.org	Yes

(3	SP)







Provide RCOC permit

Next Steps: Plans are ready for Planning Commission and City Council consideration. A meeting date will be coordinated with the applicant and their development team.

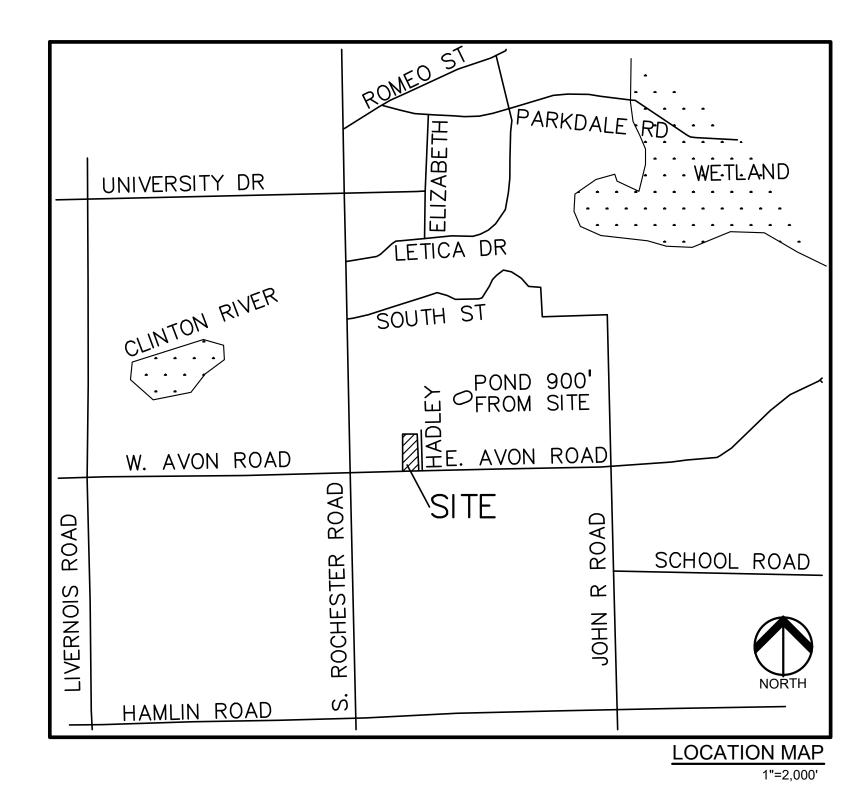


Maintenance. The owner, tenant, occupant or person responsible for any property which was the subject of an approved site plan shall maintain the property and the improvements thereon in accordance with the approved site plan or an approved amendment thereof. This responsibility shall include the duty to maintain in a condition substantially similar as approved, including the duty to replace, if necessary, all improvements such as, but not by way of limitation, all greenbelts, planting, walls, fences, paving, trash receptacles,

PRELIMINARY SITE PLAN

CAMBRIDGE KNOLL

165 & 185 E. AVON ROAD CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN



	INDEX OF DRAWINGS
NUMBER	TITLE
	COVER SHEET
C-1.0	TOPOGRAPHIC SURVEY
C-2.0	PRELIMINARY SITE PLAN
C-2.1	FIRE PROTECTION PLAN
C-3.0	PRELIMINARY GRADING PLAN
C-4.0	PRELIMINARY UTILITY PLAN
C-5.0	DRAINAGE PLAN
C-6.0	NOTES AND DETAILS
C-6.1	NOTES AND DETAILS
C-6.2	NOTES AND DETAILS

DESIGN TEAM

OWNER/APPLICANT/DEVELOPER

WOLVERINE BUILDING COMPANY 14955 TECHNOLOGY DRIVE SHELBY TOWNSHIP, MI 48315 CONTACT: MARK GASUALE PHONE: 586.421.5729

CIVIL ENGINEER

PEA GROUP 1849 POND RUN AUBURN HILLS, MI 48326 CONTACT: JOHN B. THOMPSON, PE PHONE: 844.813.2949 EMAIL: MARK@WOLVERINEBUILDINGCOMPANY.COM EMAIL: JTHOMPSON@PEAGROUP.COM

LANDSCAPE ARCHITECT

NUNEZDESIGN 249 PARK STREET TROY, MI 48083 CONTACT: RALPH NUNEZ, PLA, CLARB, ASLA PHONE: 248.224.5933 EMAIL: RALPHNUNEZDESIGN@GMAIL.COM

GROUP

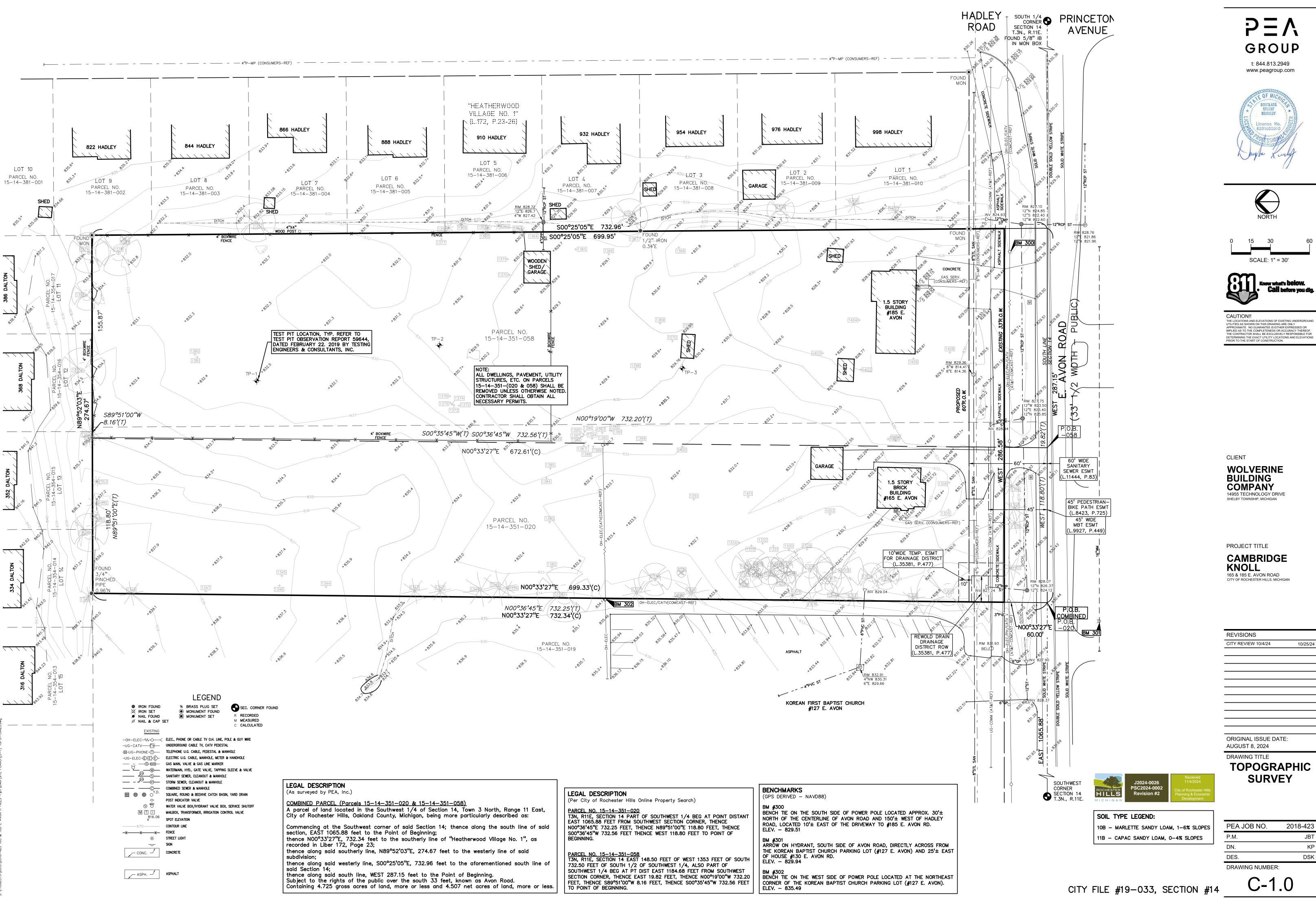
REVISIONS		
DESCRIPTION	DATE	
ORIGINAL ISSUE DATE	8/19/2019	
PER CITY REVIEW, DATED 9/4/2019	9/18/2019	
PER CITY REVIEW, DATED 9/5/2019	1/24/2020	
ROAD SHIFT	6/12/2020	
PC FINAL SUBMITTAL	10/2/2020	
ISSUE DATE	8/8/2024	
PER CITY REVEIW, DATED 10/4/2024	10/25/2024	



CITY FILE #19-033, SECTION #14

The applicant will need to submit a Land Improvement Permit (LIP) application with engineer's estimate, fee and construction plans to proceed with the construction plan review process

U @



BENCHMARKS (GPS DERIVED - NAVD88)

BM #300
BENCH TIE ON THE SOUTH SIDE OF POWER POLE LOCATED APPROX. 30'± NORTH OF THE CENTERLINE OF AVON ROAD AND 150'± WEST OF HADLEY ROAD, LOCATED 10'± EAST OF THE DRIVEWAY TO #185 E. AVON RD. ELEV. - 829.51

BM #301 ARROW ON HYDRANT, SOUTH SIDE OF AVON ROAD, DIRECTLY ACROSS FROM THE KOREAN BAPTIST CHURCH PARKING LOT (#127 E. AVON) AND 25 $^{\prime}\pm$ EAST OF HOUSE #130 E. AVON RD. **ELEV.** – 829.94

BM#02 BENCH TIE ON THE WEST SIDE OF POWER POLE LOCATED AT THE NORTHEAST CORNER OF THE KOREAN BAPTIST CHURCH PARKING LOT (#127 E. AVON). ELEV. — 835.49

LEGAL DESCRIPTION

(Per City of Rochester Hills Online Property Search)

PARCEL NO. 15-14-351-020

T3N, R11E, SECTION 14 PART OF SOUTHWEST 1/4 BEG AT POINT DISTANT EAST 1065.88 FEET FROM SOUTHWEST SECTION CORNER. THENCE N00°36'45"E 732.25 FEET, THENCE N89°51'00"E 118.80 FEET, THENCE S00°36'45"W 732.56 FEET THENCE WEST 118.80 FEET TO POINT OF

PARCEL NO. 15-14-351-058 T3N, R11E, SECTION 14 EAST 148.50 FEET OF WEST 1353 FEET OF SOUTH 732.50 FEET OF SOUTH 1/2 OF SOUTHWEST 1/4, ALSO PART OF SOUTHWEST 1/4 BEG AT PT DIST EAST 1184.68 FEET FROM SOUTHWEST SECTION CORNER, THENCE EAST 19.82 FEET, THENCE NOO°19'00"W 732.20 FEET, THENCE S89°51'00"W 8.16 FEET, THENCE S00°35'45"W 732.56 FEET TO POINT OF BEGINNING.

LEGAL DESCRIPTION (As surveyed by PEA, Inc.)

COMBINED PARCEL (Parcels 15-14-351-020 & 15-14-351-058) A parcel of land located in the Southwest 1/4 of Section 14. Town 3 North, Range 11 East.

City of Rochester Hills, Oakland County, Michigan, being more particularly described as:

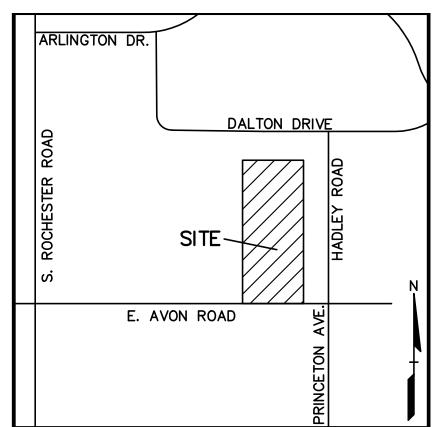
Commencing at the Southwest corner of said Section 14; thence along the south line of said section, EAST 1065.88 feet to the Point of Beginning; thence N00°33'27"E, 732.34 feet to the southerly line of "Heatherwood Village No. 1", as recorded in Liber 172, Page 23; thence along said southerly line, N89°52'03"E, 274.67 feet to the westerly line of said

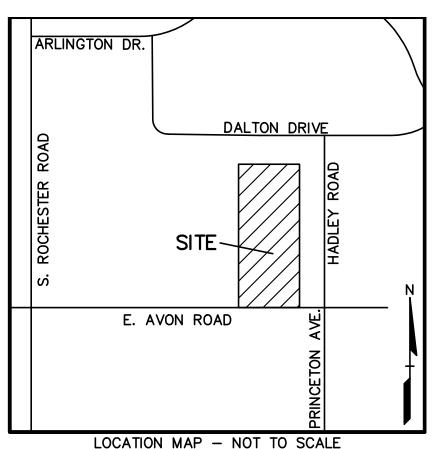
thence along said westerly line, S00°25'05"E, 732.96 feet to the aforementioned south line of said Section 14; thence along said south line, WEST 287.15 feet to the Point of Beginning.

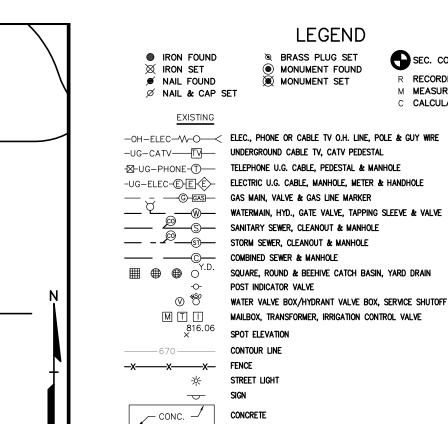
Subject to the rights of the public over the south 33 feet, known as Avon Road.

Containing 4.725 gross acres of land, more or less and 4.507 net acres of land, more or less.

FLOODPLAIN NOTE: BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE 'X', AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FLOOD INSURANCE RATE MAP NUMBER 26125C0392F, DATED SEPTEMBER 29, 2006



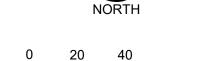


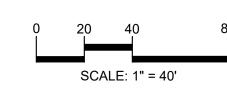


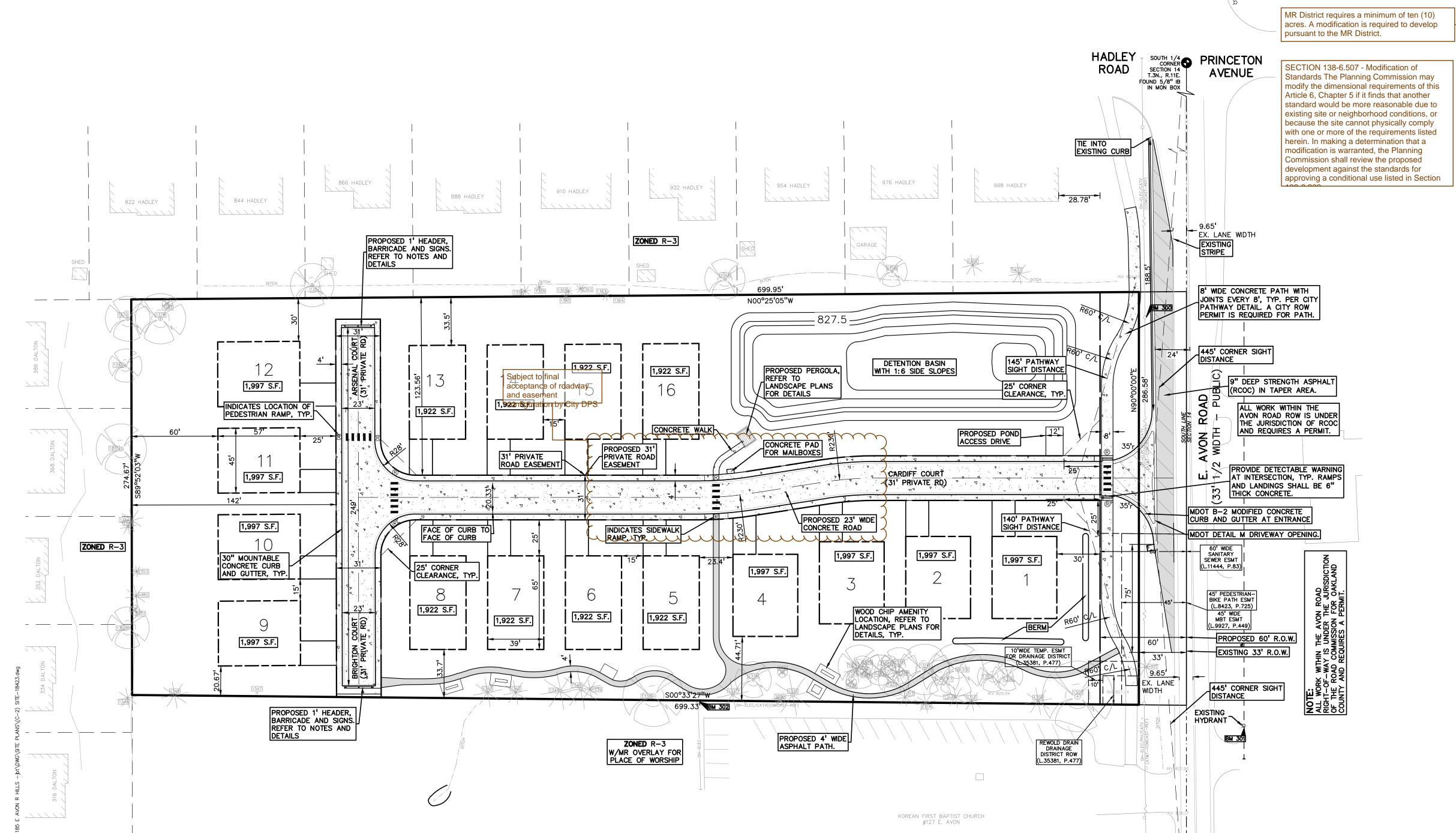












SITE DATA:

LOCATION OF PROJECT:

EAST OF S ROCHESTER ROAD (NORTH SIDE OF EAST AVON ROAD, WEST OF HADLEY ROAD)

CITY OF ROCHESTER HILLS GIS MAP

CITY OF ROCHESTER HILLS GIS MAP CITY OF ROCHESTER HILLS GIS MAP CITY OF ROCHESTER HILLS GIS MAP

REFERENCE DRAWINGS

ATAXTMAP RECIEVED VIA EMAIL 02/07/19
CONSUMERS ENERGY QUATER SECTION MAP NO. 03-61-14-3, DATED 01/10/19 COMCAST MAP
ZONE 'X' PER FLOOD INSURANCE RATE MAP NO. 26125C0392F, DATED 09/29/06

LEGEND

SEC. CORNER FOUND

671

STD HEAVY DUTY DUTY

R RECORDED

M MEASURED

C CALCULATED

BRASS PLUG SET

MONUMENT FOUND

MONUMENT SET

SIZE OF PROPERTY: 4.72 GROSS ACRES; 4.33 NET ACRES

PROPOSED USE OF PROPERTY: SIXTEEN (16) DETACHED, SINGLE FAMILY HOMES

∕— ASPH. →

WATER MAIN

STORM SEWER ELECTRIC TELEPHONE

CATV FLOOD PLAIN

CURRENT ZONING: R-3, ONE-FAMILY RESIDENTIAL DISTRICT WITH MR MIXED RESIDENTIAL OVERLAY

SURROUNDING PROPERTY DETAILS:

ZONING
R-3, ONE-FAMILY RESIDENTIAL DISTRICT
R-3, ONE-FAMILY RESIDENTIAL DISTRICT WITH MR MIXED RES. OVERLAY
DISTRICT SOUTH

R-3, ONE-FAMILY RESIDENTIAL DISTRICT WITH MR MIXED RES. OVERLAY

REQUIRED AND PROVIDED LOT DIMENSIONS:

	REQUIRED:	PROVIDED:
FRONT (PERIMETER)	30 FOOT SETBACK	30 FOOT SETBACK
FRONT (INTERIOR)	20 FOOT SETBACK	25 FOOT SETBACK
REAR (PERIMETER)	60 FOOT SETBACK	60 FOOT SETBACK
REAR (INTERIOR)	35 FOOT SETBACK	N/A
SIDES (PERIMETER)	15 F00T	20.67 FOOT
SIDES (INTERIOR)	15 F00T	15 F00T
DENSITY (# OF UNITS)	3.45 UNIT/ACRE=16 UNITS	3.38 UNIT/ACRE=16 UNITS
LOT AREA	NO MINIMUM	NO MINIMUM
MAXIMUM HEIGHT	30 FEET, 2.5 STORY	MAX 30' FEET, 2.5 STORY

PROJECT AND SITE DESCRIPTION:
PROPOSED CONSTRUCTION OF 16-LOT UNIT DETACHED CONDOMINIUM PROJECT ON THE NORTH SIDE OF EAST AVON ROAD. ACCESS TO ALL UNITS WILL BE VIA PROPOSED ROAD OFF OF E. AVON ROAD. THE PROPOSED RESIDENTIAL USE IS PERMITTED BY-RIGHT IN THE R-3, ONE-FAMILY RESIDENTIAL DISTRICT WITH MR MIXED RESIDENTIAL OVERLAY.

SITE ARRANGEMENT:
THE PROPOSED CONDOMINIUM CONSISTS OF 16 UNITS. ALL UNITS FRONT ON THE NEW PUBLIC STREET CONNECTION. THE PROPOSED LOTS ARE REGULAR IN SHAPE, ALLOW FOR ADEQUATE SETBACKS, AND PERMIT SUFFICIENT SPACE FOR THE HOMES.

NATURAL RESOURCES: THE SITE IS CURRENTLY COMPRISED OF TWO SINGLE FAMILY HOMES. SEE TREE PRESERVATION PLAN FOR EXISTING TREES TO BE SAVED.

FLOODPLAIN: ACCORDING TO FEMA FLOODPLAIN MAP THERE ARE NO IMPACTS TO THE PROPERTY. ACCESS AND CIRCULATION:

VEHICULAR ACCESS AND CIRCULATION: VEHICULAR ACCESS TO ALL UNITS WILL BE VIA A NEW PRIVATE STREET OFF OF E. AVON ROAD. THE NEW ROAD WILL HAVE A THIRTY (30) FOOT WIDE ROAD EASEMENT AND TEE NEAR THE BACK OF THE SITE. THE TEE WILL SERVE AS A FIRE TRUCK TURNAROUND. THE TEE TO THE WEST PROVIDES A FUTURE CONNECTION IF/WHEN FUTURE LOTS ARE DEVELOPED. AN ACCESS DRIVE TO THE STORMWATER DÉTENTION BASIN IS PROVIDED.

PEDESTRIAN ACCESS AND CIRCULATION:
A 4-FOOT WIDE SIDEWALK IS PROVIDED AT BOTH SIDES OF THE NEW ROAD AND AN 8-FOOT WIDE SIDEWALK IS PROVIDED ALONG E. AVON ROAD.

UTILITIES:
UTILITIES ARE PLACED WITHIN EASEMENTS APPROVED AS TO SIZE AND LOCATION BY THE CITY ENGINEER.

ALL SITES ARE SERVED BY PUBLIC WATER, SANITARY SEWER, STORM WATER AND DETENTION SYSTEMS CONSTRUCTED TO CITY STANDARDS, AT THE EXPENSE OF THE DEVELOPER. EASEMENTS OVER THESE SYSTEMS SHALL BE CONVEYED AND RECORDED BEFORE OCCUPANCY PERMITS ARE ISSUED FOR DWELLING UNITS.

REMOVE OR RELOCATE ALL FIXED OBJECTS PRIOR TO EXCAVATION. FIXED OBJECTS SHALL BE NO NEARER THAN 5 FEET FROM BACK OF CURB, OR 12 FROM LANE LINE. COORDINATE RELOCATIONS WITH UTILITY COMPANIES AS REQUIRED.

PEDESTRIAN FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT ADA GUIDELINES.

3. EXCAVATIONS WITHIN A 1:1 INFLUENCE OF THE ROADWAY WILL REQUIRE MDOT CLASS II BACKFILL COMPACTED TO 95% MAXIMUM DENSITY.

CAUTION!! THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT WOI VEDINE

BUILDING 14955 TECHNOLOGY DRIVE SHELBY TOWNSHIP, MICHIGAN

PROJECT TITLE

CAMBRIDGE KNOLL 165 & 185 E. AVON ROAD CITY OF ROCHESTER HILLS, MICHIGAN

REVISIONS CITY REVIEW 10/4/24

ORIGINAL ISSUE DATE:

AUGUST 8, 2024

DRAWING TITLE **PRELIMINARY SITE PLAN**

2018-423 PEA JOB NO.

DES.

DRAWING NUMBER:



BENCHMARKS (GPS DERIVED - NAVD88)

BM #300 BENCH TIE ON THE SOUTH SIDE OF POWER POLE LOCATED APPROX. 30'± NORTH OF THE CENTERLINE OF AVON ROAD AND 150'± WEST OF HADLEY ROAD, LOCATED 10'± EAST OF THE DRIVEWAY TO #185 E. AVON RD. ELEV. - 829.51

BM #301
ARROW ON HYDRANT, SOUTH SIDE OF AVON ROAD, DIRECTLY
ACROSS FROM THE KOREAN BAPTIST CHURCH PARKING LOT (#127 E. AVON) AND 25'± EAST OF HOUSE #130 E. AVON RD. ELEV. - 829.94

BM#02
BENCH TIE ON THE WEST SIDE OF POWER POLE LOCATED AT THE NORTHEAST CORNER OF THE KOREAN BAPTIST CHURCH PARKING LOT (#127 E. AVON). ELEV. — 835.49

822 HADLEY

ZONED R-3

844 HADLEY

1,997 S.F.

1,997 S.F.

30" MOUNTABLE

CONCRETE CURB AND GUTTER, TYP.

1,997 S.F.

9

PROPOSED 1' HEADER, BARRICADE AND SIGNS. REFER TO NOTES AND DETAILS

1,997 S.F.

FIRE DEPARTMENT NOTES:

1. FIRE LANES SHALL BE DESIGNATED BY THE FIRE CODE OFFICIAL, AND SHALL BE CONSPICUOUSLY POSTED ON BOTH SIDES OF THE FIRE LANE, WITH FIRE LANE. SIGNS SPACED NOT MORE THAN 100 FEET APART. FIRE LANE SIGNS SHALL READ "NO STOPPING, STANDING, PARKING, FIRE LANE", AND SHALL CONFORM TO THE MMUTCD. (FIRE PREVENTION ORDINANCE, CHAP. 58, SEC 505)

CONSTRUCTION SITES SHALL BE SAFEGUARDED IN ACCORDANCE WITH IFC 2006 CHAPTER 14. (FIRE PREVENTION ORDINANCE, CHAP. 58, SEC 505) OPEN BURNING IS NOT PERMITTED INCLUDING THE BURNING OF TRASH, DEBRIS,

OR LAND CLEARING MATERIALS. OPEN BURNING FOR WARMING OF SAND AND/OR WATER FOR THE PREPARATION OF MORTAR SHALL BE WITHIN THE CITY OF ROCHESTER HILLS BURN PERMIT GUIDELINES. (FIRE PREVENTION ORDINANCE, CHAP. 58, SEC 307.6.2 & 307.6.2.3) ON STREET PARKING WILL NOT BE PERMITTED IN THIS DEVELOPMENT DUE TO THE ROAD WIDTH AND DESIGN OF THE TURNAROUND AS PART OF THE ROADWAY. THE FIRE DEPARTMENT DOES NOT INITIALLY REQUIRE FIRE LANE SIGNS. THE FIRE

DEPARTMENT WILL MONITOR AND COULD POSSIBLY REQUIRE FIRE LANE SIGNS IN THE FUTURE IF THERE ARE COMPLAINTS OR ACCESS ISSUES. ALL DWELLINGS ARE SINGLE FAMILY WOOD FRAME HOMES. THE THE SQUARE

WIDTH OF PROPOSED DRIVE IS 20.33 FEET (FACE OF CURB to FACE OF CURB); EXCEEDS THE 20 FOOT MINIMUM

FOOTAGE OF THE HOUSES ARE PROVIDED ON THE PLAN BELOW.

PROPOSED 1' HEADER,

BARRICADE AND SIGNS. REFER TO NOTES AND

1,922 S.F.

HYDRANT

1,922 S.F.

HYDRANT, TYP.

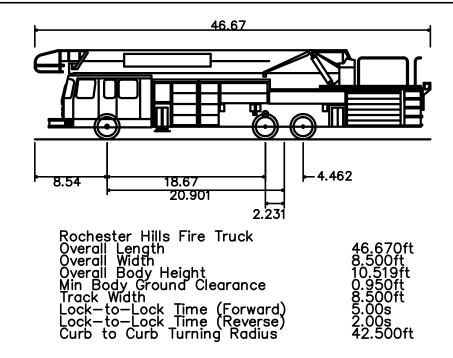
25' CORNER CLEARANCE, TYP.

1,922 S.F.

1,922 S.F.

FIRE APPARATUS ACCESS ROADS SHOULD BE DESIGNED TO SUPPORT THE LOAD OF A FIRE APPARATUS (75,000 POUNDS) AND BE SURFACED TO PROVIDE ALL WEATHER DRIVING CAPABILITIES.

FLOW TEST IS REQUIRED TO EVALUATE CAPABILITIES OF THE WATER SUPPLY. THIS CAN BE OBTAINED BY CONTACTING THE ROCHESTER HILLS ENGINEERING DEPARTMENT AT 248.656.4640





HADLEY

ROAD

976 HADLEY

DETENTION BASIN

CARDIFF COURT

(31' PRIVATE RD)

1,997 S.F.

KOREAN FIRST BAPTIST CHURCH #127 E. AVON

954 HADLEY

____827.5*____*

1,997 S.F.

√ N00°25'05"W

1,997 S.F.

932 HADLEY

ZONED R-3

1,922 S.F.

PROPOSED 23' WIDE CONCRETE ROAD

1,922 S.F.

S00°33'27"W

699.33

(B/C - B/C)

ZONED R-3 W/MR OVERLAY FOR PLACE OF WORSHIP

1,922 S.F.

PROPOSED 31'
PRIVATE ROAD
EASEMENT

1,922 S.F.

PROPOSED ACCESS ROAD WIDTH (FACE OF CURB TO

FACE OF CURB)

998 HADLEY

145' PATHWAY
SIGHT DISTANCE

25' CORNER
CLEARANCE, TYP.

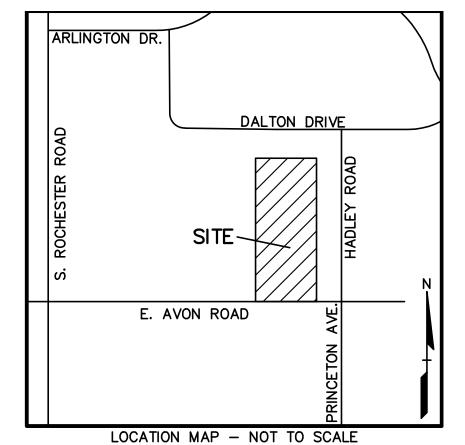
HYDRANT

140' PATHWAY

1,997 S.F.

SIGHT DISTANCE

PROPOSED POND _ ACCESS DRIVE



EXISTING HYDRANT

PRINCETON

AVENUE

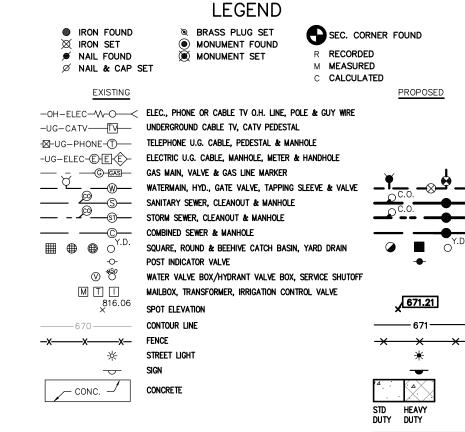
445' CORNER SIGHT DISTANCE

PROPOSED 60' R.O.W.

EXISTING 33' R.O.W.

445' CORNER SIGHT DISTANCE

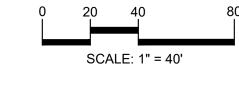
EXISTING HYDRANT



✓ ASPH. ✓











CLIENT

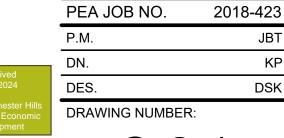
WOLVERINE BUILDING COMPANY 14955 TECHNOLOGY DRIVE SHELBY TOWNSHIP, MICHIGAN

PROJECT TITLE

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REVISIONS	
CITY REVIEW 10/4/24	10/25/24
ORIGINAL ISSUE DATE:	-

FIRE PROTECTION PLAN



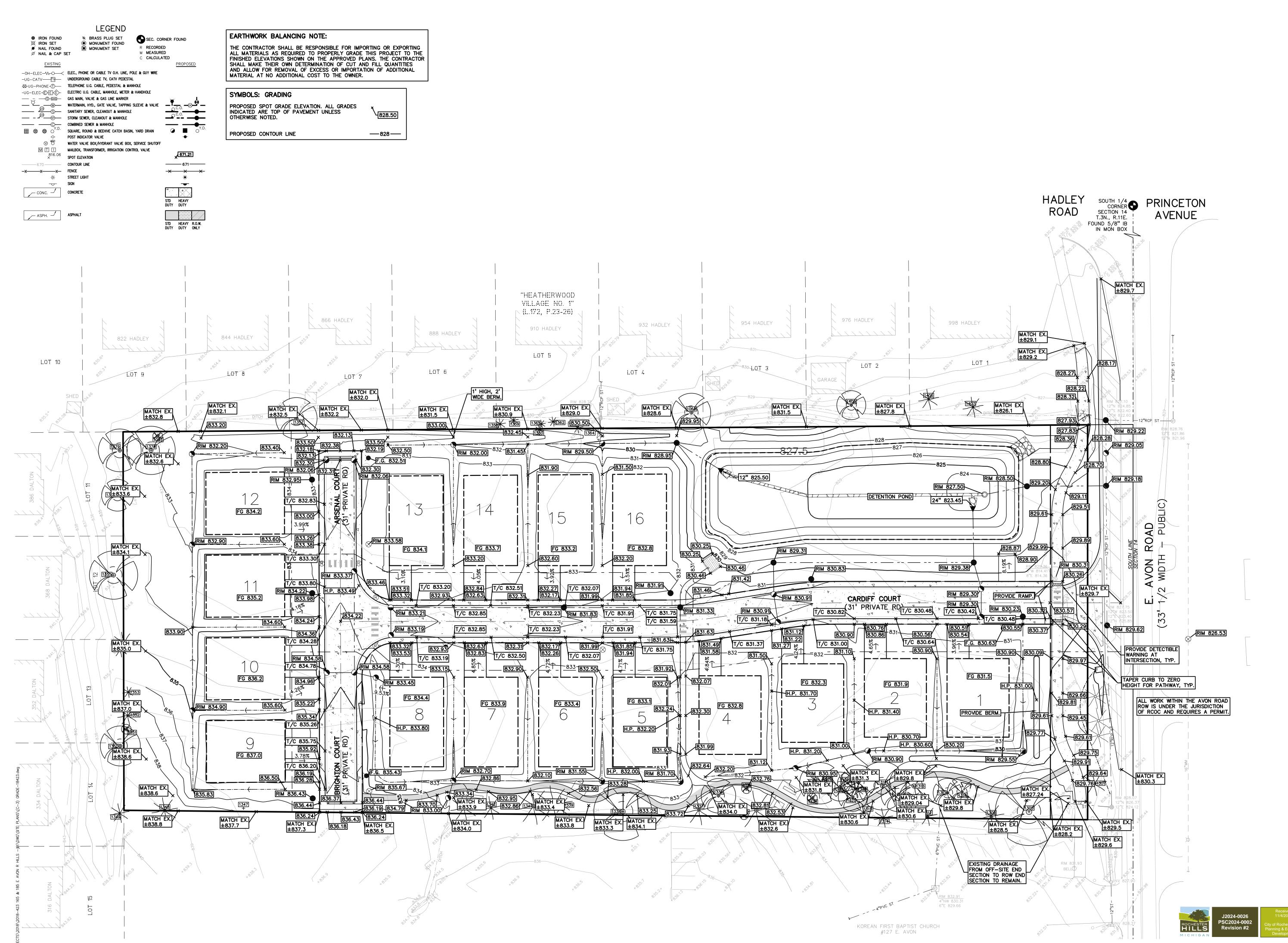
AUGUST 8, 2024





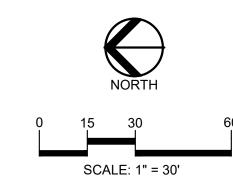






PEA GROUP t: 844.813.2949 www.peagroup.com







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WOLVERINE BUILDING COMPANY

14955 TECHNOLOGY DRIVE

SHELBY TOWNSHIP, MICHIGAN

PROJECT TITLE

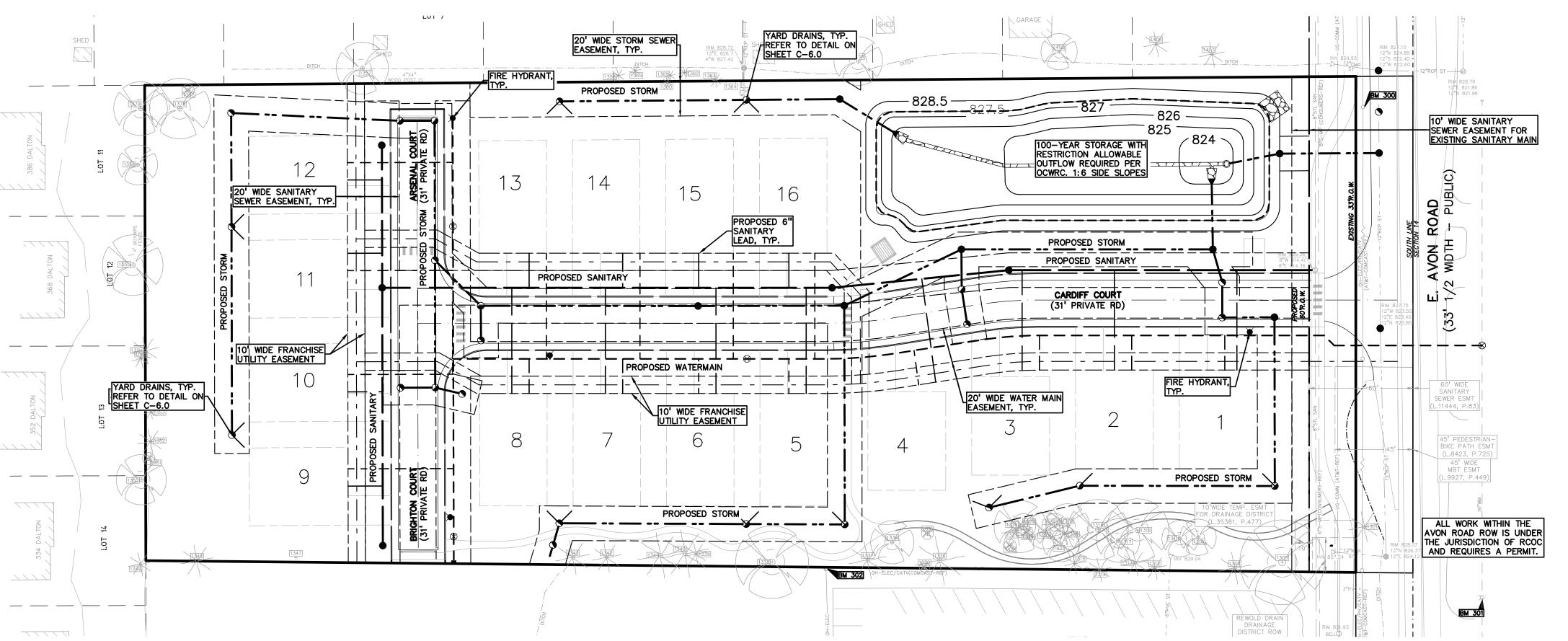
CAMBRIDGE

CAMBRIDGE KNOLL 165 & 185 E. AVON ROAD CITY OF ROCHESTER HILLS, MICHIGAN

REVISIONS	
CITY REVIEW 10/4/24	10/25/24
-	
ORIGINAL ISSUE DATE:	
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PRELIMINARY
GRADING
PLAN

	PEA JOB NO.	2018-423
	P.M.	JBT
	DN.	KP
	DES.	DSK
er Hills nomic	DRAWING NUMBER:	

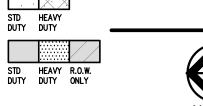


WATER MAIN BASIS OF DESIGN:		
(Unit Factors Based on Oakland Cou	ınty Unit Assign	ment Factors)
SINGLE FAMILY RESIDENTIAL		
Estimated No. of Dwellings	16	
Unit Factor	1	per dwelling
REU	16.0	
Population (P) (2.44 PEOPLE/EDU)	39.0	People
TOTAL		
REU	16.0	
	39	People
Average Flow (150 GPCPD)	5,856	G.P.D.
	0.009	C.F.S.
	0.006	M.G.D.
Design Max. Flow = (2*avg)	11712.00	G.P.D.
3	0.018	C.F.S.
	0.012	M.G.D.

PROPOSED SANITARY SEWER BASIS OF DES	IGN:		
(Unit Factors Based on Oakland County Unit Assignment Factors)			
SINGLE FAMILY RESIDENTIAL			
Estimated No. of Dwellings	16		
Unit Factor	1	per dwelling	
REU	16.0		
Population (P) (2.44 PEOPLE/EDU)	39.0	People	
TOTAL			
REU	16.0		
	39	People	
Average Flow (100 GPCPD)	3,904	G.P.D.	
	0.006	C.F.S.	
P (1000s)	0.039		
Peaking Factor (PF)	4.34		
PF = (18+sqrt(P))/(4+sqrt(P))			
Peak Flow (G.D.P.)	16,925	G.P.D.	
Peak Flow (C.F.S.)	0.026	C.F.S.	
6" Pipe Capacity Provided =	0.73	C.F.S.	

LEGEND

BRASS PLUG SET IRON FOUND SEC. CORNER FOUND oxtimes iron set MONUMENT FOUND R RECORDED MONUMENT SET M MEASURED Ø NAIL & CAP SET C CALCULATED -OH-ELEC-VV-O-C ELEC., PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE -UG-CATV-TV- UNDERGROUND CABLE TV, CATV PEDESTAL -UG-ELEC-CE-E-E-E-ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE — _ GAS MAIN, VALVE & GAS LINE MARKER SANITARY SEWER, CLEANOUT & MANHOLE — – — STORM SEWER, CLEANOUT & MANHOLE COMBINED SEWER & MANHOLE SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN POST INDICATOR VALVE WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE SPOT ELEVATION CONTOUR LINE FENCE STREET LIGHT -ķ-CONC. CONCRETE



PUBLIC UTILITY EASEMENTS: ALL SANITARY SEWERS 8" AND LARGER IN DIAMETER ARE TO BE PUBLIC AND SHALL BE LOCATED IN A 20' WIDE EASEMENT. ALL WATER MAIN SHALL BE LOCATED IN A 20' WIDE EASEMENT.

ASPHALT

ALL UTILITY LINES, STRUCTURES AND TRENCHES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF

2. NO PHYSICAL CONNECTION TO THE EXISTING WATER MAIN CAN BE MADE UNTIL THE NEW WATER MAIN

5. ALL STORM LEADS SHALL BE P.V.C. SOLID WALL PIPE, SCHEDULE 40 UNLESS OTHERWISE NOTED. ALL 12"

BOXES ARE TO BE PROVIDED FOR ALL CLEANOUTS. THE BOXES SHALL BE E.J.I.W. # 1565 OR APPROVED

8. ALL NECESSARY FITTINGS, THRUST BLOCKS, RESTRAINING GLANDS, BLOW OFFS, ETC. FOR WATER LEAD SYSTEM ARE CONSIDERED INCIDENTAL TO THIS PROJECT. THE CONTRACTOR SHALL INSTALL THESE ITEMS

DIAMETER STORM SEWER AND LARGER SHALL BE REINFORCED CONCRETE (RCP) CL-IV, UNLESS

6. ALL 6" SANITARY SEWER LEADS SHALL BE P.V.C. SOLID WALL PIPE, SDR 23.5 W/ RUBBER GASKET

GENERAL UTILITY NOTES:

OTHERWISE NOTED.

STORM EASEMENTS: 20'

SANITARY EASEMENTS: 20'

WATER MAIN EASEMENTS: 20'
FRANCHISE UTILITY EASEMENTS: 10'

ROCHESTER HILLS STANDARDS AND REQUIREMENTS.

AS NECESSARY AND AS REQUIRED BY THE CITY.

11. UTILITY EASEMENTS SHALL BE THE FOLLOWING WIDTHS

PASSES ALL PRESSURE AND BACTERIOLOGICAL TESTS.

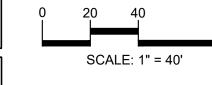
3. ALL WATER LEADS 2" AND SMALLER SHALL BE TYPE 'K' COPPER.

4. ALL WATER MAINS SHALL BE PROVIDED WITH 6 FEET MINIMUM COVER.

9. A SOIL EROSION PERMIT WILL BE REQUIRED FROM THE CITY OF ROCHESTER HILLS.

10. ALL ELECTRIC, TELEPHONE AND CABLE TV SERVICES WILL BE UNDERGROUND.

PREMIUM TRENCH BACKFILL NOTE: ALL UTILITIES UNDER PAVEMENT OR WITHIN 3' OF THE EDGE OF PAVEMENT (OR WITHIN THE 45° LINE OF INFLUENCE OF PAVEMENT) & ALL UTILITY CROSSINGS, SHALL HAVE M.D.O.T. CLASS II GRANULAR BACKFILL COMPACTED TO 95% MAX. DRY DENSITY (ASTM D-1557).



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CAUTION!! THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

WOLVERINE BUILDING COMPANY 14955 TECHNOLOGY DRIVE SHELBY TOWNSHIP, MICHIGAN

PROJECT TITLE

REVISIONS

CITY REVIEW 10/4/24

CAMBRIDGE KNOLL

165 & 185 E. AVON ROAD

CITY OF ROCHESTER HILLS, MICHIGAN

	,		

10/25/24

ORIGINAL ISSUE DATE: AUGUST 8, 2024

DRAWING TITLE **PRELIMINARY** UTILITY

PLAN 2018-423 PEA JOB NO.





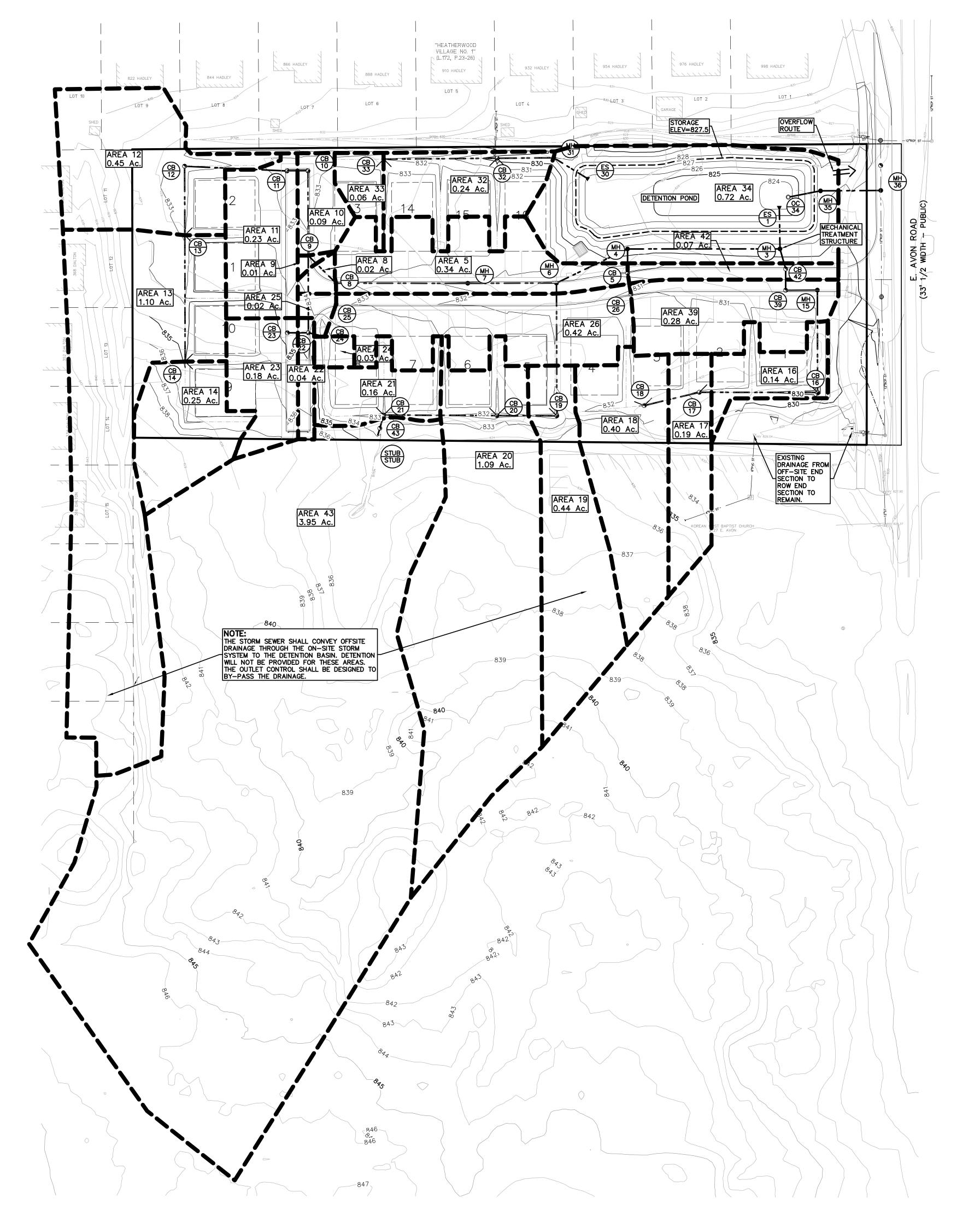
PSC2024-0002
Revision #2

City of Rochester Hills Planning & Economic Development

CITY FILE #19-033, SECTION #14

City of Rochester Hills Planning & Economic Development

C-4.0

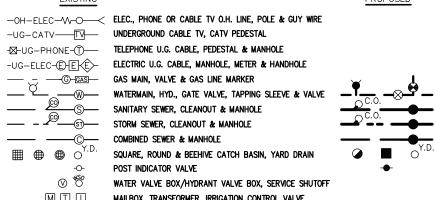


Ø NAIL & CAP SET

LEGEND BRASS PLUG SET
 MONUMENT FOUND MONUMENT SET

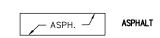
SEC. CORNER FOUND R RECORDED M MEASURED
C CALCULATED

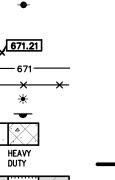




M T I MAILBOX, TRANSFORMF MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE CONTOUR LINE

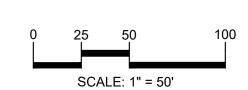
☆ STREET LIGHT SIGN











DETENTION CALCULATIONS:

Select NCRS Soil type: Improved Greenspace area: Select NCRS Soil type: Wooded Area: Select NCRS Soil type: Unpervious Area: Greenbelt Area: Total Area (A): Improved Greenspace area: 2.69	acre acre acre	C = C =	
Select NCRS Soil type: Wooded Area: Select NCRS Soil type: Impervious Area: Greenbelt Area: Total Area (A):	acre	C =	0.30
Select NCRS Soil type: Wooded Area: Select NCRS Soil type: Impervious Area: Greenbelt Area: Total Area (A): Impervious Soil type: Impervious Area: 1.66 4.30	acre	C =	
Wooded Area: 0.00 Select NCRS Soil type: [Impervious Area: 1.66 Greenbelt Area: 2.66 Total Area (A): 4.33			0.30
Select NCRS Soil type: Impervious Area: Greenbelt Area: Total Area (A): 1.66 2.69 4.33			0.30
Impervious Area: 1.66 Greenbelt Area: 2.65 Total Area (A): 4.33	acre		
Greenbelt Area: 2.69 Total Area (A): 4.33	acre		
Total Area (A): 4.33		C =	0.95
	acre	C =	0.30
Mainblad Coeffeiant of Dunoff (C)	acre		
Weighted Coefficient of Runoff (C):	0.55		
Rainfall Intensity			
Flood Control Time of Concentration, Tc =	15.0	minutes	

Rainfall Intensity	10/28/2024	Detcalcs V2
Time of Concentration (T _C)	15.00	min
Since Tc <= 15 min, I1 = 2.0 in/hr		
I1 = 30.2 /[(T + 9.17)^.81]	2.00	in/hr
110 = 50.12 / [(T + 9.17)^.81]		in/hr
1100 = 83.3/[(T + 9.17)^.81]		in/hr
CPVC: Channel Protection Volume Control Volume	ume	
Vcpvc = (4719)CA	11,238	cf
CPRC: Channel Protection Rate Control Volume		
Ved= (6897)CA	16,425	cf
CPRC Allowable Outlet Rate		
Forebay Volume = (545)CA	1,298	cf
Forebay Release Rate: QVF = VF/(48*60*60)	0.01	
100-Year Allowable Outlet Rate	2.01	
Qvrr = Qa		
Q _{VRR} =	0.80	cfs/ac
Receiving System Restricted Flow Rate QVRR =	0.36	cfs/ac
100 Voor Book Allowable Discharge		
100-Year Peak Allowable Discharge Area, A =	4.33	20
·		
$Q_{100P} = Q_{VRR}(A)$	1.56	CIS
100-Year Runoff Volume		
V100R = (18,985)CA	45,213	cf
100-Year Peak Inflow		
Q _{100IN} = C(I ₁₀₀)A	15.03	cfs
Storage Curve Factor (Vs/Vr)		
R = 0.206-0.15 x In(Q100P/Q100IN)	0.546	
100-Year Storage Volume		
Vs = R(V100R)	24,686	cf
No infiltration will be provided, so no CPVC dec	duction is tal	(en
V100D = Vs	24,686	
V 100D - V3	24,000	U
V_{100D} must be larger or equal to V_{ED} :		
Is V _{100D} >= V _{ED} ?	Yes	
	_	_

Detention Bas	sin				
CPRC Storage	Elevation:	826.46	16,425	cf	
Detention Stora	age Elevation:	<u>827.13</u>	24,686	cf	
Elev. (ft)	Area (sf)	Vol. (cf)	Total Vol. (cf)		
823.40	0	0	0		
824.00	763	229	229		
825.00	5,217	2,990	3,219		
826.00	10,275	7,746	10,965		
827.00	13,497	11,886	22,851		
827.50	15,228	7,181	30,032		
Bottom Elevation	on of Pond:		823.40		

INFILTRATION NOTE:

INFILTRATION WILL NOT BE IMPLEMENTED INTO THE STORMWATER DETENTION CALCULATIONS. AN INFILTRATION TEST WAS CONDUCTED TEC, INC. AND THE INFILTRATION RATE IS BELOW THE THRESHOLD TO SUPPLY ON-SITE INFILTRATION AT COPY OF THE REPORT WILL BE PROVIDED DURING THE CONSTRUCTION PLAN PHASE.



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CLIENT

WOLVERINE BUILDING COMPANY 14955 TECHNOLOGY DRIVE SHELBY TOWNSHIP, MICHIGAN

PROJECT TITLE

CAMBRIDGE KNOLL 165 & 185 E. AVON ROAD CITY OF ROCHESTER HILLS, MICHIGAN

REVISIONS	
CITY REVIEW 10/4/24	10/25/24

ORIGINAL ISSUE DATE: AUGUST 8, 2024

> **DRAINAGE PLAN**

PEA JOB NO.	2018-423
P.M.	JBT
DN.	KP
DES.	DSK
DRAWING NUMBER	





CITY FILE #19-033, SECTION #14 C-5.0

24,686 cf

GENERAL NOTES:

- 1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF ROCHESTER HILLS, RCOC, M.D.O.T.
- 2. THE CONTRACTOR MUST CONTACT THE ENGINEER SHOULD THEY ENCOUNTER ANY DESIGN ISSUES DURING CONSTRUCTION. IF THE CONTRACTOR MAKES DESIGN MODIFICATIONS WITHOUT THE WRITTEN DIRECTION OF THE DESIGN ENGINEER, THE CONTRACTOR DOES SO AT HIS OWN RISK.
- 3. ALL NECESSARY PERMITS, TESTING, BONDS AND INSURANCES ETC., SHALL BE PAID FOR BY THE CONTRACTOR. THE OWNER SHALL PAY FOR ALL ROCHESTER HILLS INSPECTION FEES.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL DURING THE PERIODS OF CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO THE JOB.
- 5. THE CONTRACTOR SHALL NOTIFY MISS DIG (811) AND REPRESENTATIVES OF OTHER UTILITIES IN THE VICINITY OF THE WORK A MINIMUM OF 72 HOURS PRIOR TO START OF CONSTRUCTION (EXCLUDING WEEKENDS AND HOLIDAYS) FOR LOCATION AND STAKING OF ON-SITE UTILITY LINES. IF NO NOTIFICATION IS GIVEN AND DAMAGE RESULTS, SAID DAMAGE WILL BE REPAIRED AT SOLE EXPENSE OF THE CONTRACTOR. IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.
- 6. CONTRACTOR TO VERIFY THAT THE PLANS AND SPECIFICATIONS ARE THE VERY LATEST PLANS AND SPECIFICATIONS AND FURTHERMORE, VERIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED. ALL ITEMS CONSTRUCTED BY THE CONTRACTOR PRIOR TO RECEIVING FINAL APPROVAL, HAVING TO BE ADJUSTED OR RE-DONE, SHALL BE AT THE CONTRACTORS EXPENSE. SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT BETWEEN THESE PLANS AND/OR SPECIFICATIONS, THEY SHALL SEEK CLARIFICATION IN WRITING FROM THE ENGINEER BEFORE COMMENCEMENT OF CONSTRUCTION. FAILURE TO DO SO SHALL BE AT SOLE
- 7. ALL PROPERTIES OR FACILITIES IN THE SURROUNDING AREAS, PUBLIC OR PRIVATE, DESTROYED OR OTHERWISE DISTURBED DUE TO CONSTRUCTION, SHALL BE REPLACED AND/OR RESTORED TO THE ORIGINAL CONDITION BY
- 8. MANHOLE, CATCH BASIN, GATE VALVES AND HYDRANT FINISH GRADES MUST BE CLOSELY CHECKED AND APPROVED BY THE ENGINEER BEFORE THE CONTRACTOR'S WORK IS CONSIDERED COMPLETE.
- 9. CONTRACTOR SHALL REMOVE AND DISPOSE OF OFF-SITE ANY TREES, BRUSH, STUMPS, TRASH OR OTHER UNWANTED DEBRIS AT THE OWNER'S DIRECTION, INCLUDING OLD BUILDING FOUNDATIONS AND FLOORS. BURNING OF TRASH, STUMPS OR OTHER DEBRIS SHALL NOT BE PERMITTED.
- 10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADING, SIGNAGE, LIGHTS AND TRAFFIC CONTROL DEVICES TO PROTECT THE WORK AND SAFELY MAINTAIN TRAFFIC IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION). THE DESIGN ENGINEER, OWNER, CITY AND STATE SHALL NOT BE HELD LIABLE FOR ANY CLAIMS RESULTING FROM ACCIDENTS OR DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE TO COMPLY WITH TRAFFIC AND PUBLIC SAFETY REGULATIONS DURING THE CONSTRUCTION PERIOD.
- 11. ALL EXCAVATIONS SHALL BE SLOPED, SHORED OR BRACED IN ACCORDANCE WITH MI-OSHA REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE AN ADEQUATELY CONSTRUCTED AND BRACED SHORING SYSTEM FOR EMPLOYEES WORKING IN AN EXCAVATION THAT MAY EXPOSE EMPLOYEES TO THE DANGER OF MOVING

PAVING NOTES:

- 1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF ROCHESTER HILLS AND M.D.O.T.
- 2. IN AREAS WHERE NEW PAVEMENTS ARE BEING CONSTRUCTED, THE TOPSOIL AND SOIL CONTAINING ORGANIC MATTER SHALL BE REMOVED PRIOR TO PAVEMENT CONSTRUCTION.
- 3. ON-SITE FILL CAN BE USED IF THE SPECIFIED COMPACTION REQUIREMENTS CAN BE ACHIEVED. IF ON-SITE SOIL IS USED, IT SHOULD BE CLEAN AND FREE OF FROZEN SOIL, ORGANICS, OR OTHER DELETERIOUS
- 4. THE FINAL SUBGRADE/EXISTING AGGREGATE BASE SHOULD BE THOROUGHLY PROOFROLLED USING A FULLY LOADED TANDEM AXLÉ TRUCK OR FRONT END LOADER UNDER THE OBSERVATION OF A GEOTECHNICAL/PAVEMENT ENGINEER. LOOSE OR YIELDING AREAS THAT CANNOT BE MECHANICALLY STABILIZED SHOULD BE REINFORCED USING GEOGRIDS OR REMOVED AND REPLACED WITH ENGINEERED FILL OR AS DICTATED BY FIELD CONDITIONS.
- 5. SUBGRADE UNDERCUTTING, INCLUDING BACKFILLING SHALL BE PERFORMED TO REPLACE MATERIALS SUSCEPTIBLE TO FROST HEAVING AND UNSTABLE SOIL CONDITIONS. ANY EXCAVATIONS THAT MAY BE REQUIRED BELOW THE TOPSOIL IN FILL SECTIONS OR BELOW SUBGRADE IN CUT SECTIONS, WILL BE CLASSIFIED AS SUBGRADE UNDERCUTTING.
- 6. SUBGRADE UNDERCUTTING SHALL BE PERFORMED WHERE NECESSARY AND THE EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR. ANY SUBGRADE UNDERCUTTING SHALL BE BACKFILLED WITH SAND OR OTHER SIMILAR APPROVED MATERIAL. BACKFILL SHALL BE COMPACTED TO 95% OF THE MAXIMUM UNIT WEIGHT (PER ASTM D-1557) UNLESS OTHERWISE SPECIFIED.
- 7. BACKFILL UNDER PAVED AREAS SHALL BE AS SPECIFIED ON DETAILS.
- 8. ANY SUB-GRADE WATERING REQUIRED TO ACHIEVE REQUIRED DENSITY SHALL BE CONSIDERED INCIDENTAL TO THE JOB.
- 9. FINAL PAVEMENT ELEVATIONS SHOULD BE SO DESIGNED TO PROVIDE POSITIVE SURFACE DRAINAGE. A MINIMUM SURFACE SLOPE OF 1.0 PERCENT IS RECOMMENDED.
- 10. CONSTRUCTION TRAFFIC SHOULD BE MINIMIZED ON THE NEW PAVEMENT. IF CONSTRUCTION TRAFFIC IS ANTICIPATED ON THE PAVEMENT STRUCTURE, THE INITIAL LIFT THICKNESS COULD BE INCREASED AND PLACEMENT OF THE FINAL LIFT COULD BE DELAYED UNTIL THE MAJORITY OF THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. THIS ACTION WILL ALLOW REPAIR OF LOCALIZED FAILURE, IF ANY DOES OCCUR, AS WELL AS REDUCE LOAD DAMAGE ON THE PAVEMENT SYSTEM.

GENERAL UTILITY NOTES:

- 1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF ROCHESTER HILLS AND M.D.O.T.
- 2. ALL TRENCHES UNDER OR WITHIN THREE (3) FEET OR THE FORTY-FIVE (45) DEGREE ZONE OF INFLUENCE LINE OF EXISTING AND/OR PROPOSED PAVEMENT, BUILDING PAD OR DRIVE APPROACH SHALL BE BACKFILLED WITH SAND COMPACTED TO AT LEAST NINETY-FIVE (95) PERCENT OF MAXIMUM UNIT WEIGHT (ASTM D-1557). ALL OTHER TRENCHES TO BE COMPACTED TO 90% OR BETTER.
- 3. WHENEVER EXISTING MANHOLES OR SEWER PIPE ARE TO BE TAPPED, DRILL HOLES 4" CENTER TO CENTER, AROUND PERIPHERY OF OPENING TO CREATE A PLANE OF WEAKNESS JOINT BEFORE BREAKING SECTION OUT.
- 4. THE LOCATIONS AND DIMENSIONS SHOWN ON THE PLANS FOR EXISTING UTILITIES ARE IN ACCORDANCE WITH AVAILABLE INFORMATION WITHOUT UNCOVERING AND MEASURING. THE DESIGN ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THIS INFORMATION OR THAT ALL EXISTING UNDERGROUND FACILITIES ARE SHOWN. CONTRACTOR TO FIELD VERIFY UTILITIES.
- 5. THE CONTRACTOR MUST COORDINATE TO ENSURE ALL REQUIRED PIPES, CONDUITS, CABLES AND SLEEVES ARE PROPERLY PLACED FOR THE INSTALLATION OF GAS, ELECTRIC, PHONE, CABLE, IRRIGATION, ETC. IN SUCH A MANNER THAT WILL FACILITATE THEIR PROPER INSTALLATION PRIOR TO THE PLACEMENT OF THE PROPOSED PAVEMENT AND LANDSCAPING.
- 6. REFER TO CITY OF ROCHESTER HILLS STANDARD DETAILS FOR PIPE BEDDING DETAILS.
- 7. REFER TO CITY OF ROCHESTER HILLS STANDARD DETAIL SHEETS FOR ADDITIONAL INFORMATION.

STORM SEWER NOTES:

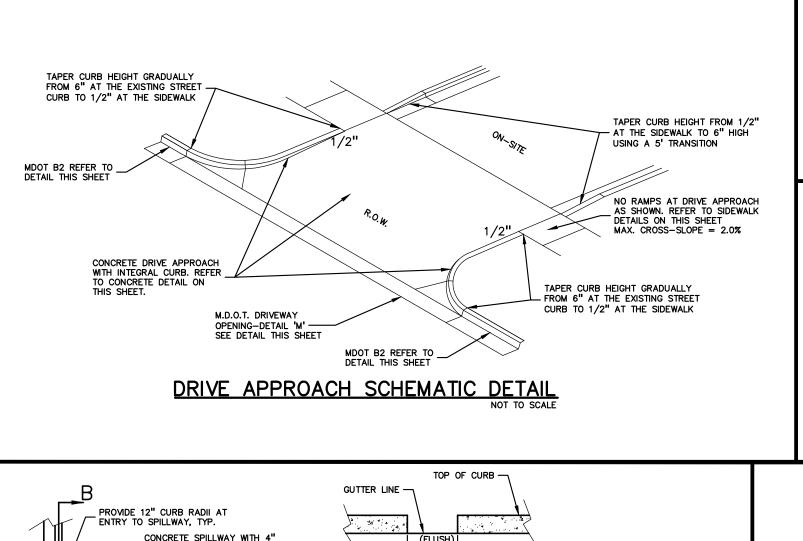
- 1. ALL STORM SEWER 12" AND LARGER SHALL BE RCP CLASS IV UNLESS OTHERWISE NOTED. REFER TO CITY STANDARD DETAILS SHEETS FOR STANDARD BEDDING DETAILS.
- 2. JOINTS FOR ALL STORM SEWER 12" AND LARGER SHALL BE MODIFIED TONGUE AND GROOVE JOINT WITH RUBBER GASKETS UNLESS SPECIFIED OTHERWISE (ASTM C-443)
- 3. ALL STORM SEWER LEADS SHALL BE CONSTRUCTED OF PVC SCHEDULE 40 PIPE AT 1.00% MINIMUM SLOPE WITH GLUED JOINTS, UNLESS OTHERIWSE NOTED.

WATER MAIN NOTES:

- . ALL WATER MAIN SHALL BE INSTALLED WITH A MINIMUM COVER OF 6' BELOW FINISH GRADE. WHEN WATER MAINS MUST DIP TO PASS UNDER A STORM SEWER OR SANITARY SEWER, THE SECTIONS WHICH ARE DEEPER THAN NORMAL SHALL BE KEPT TO A MINIMUM LENGTH BY THE USE OF VERTICAL TWENTY TWO AND A HALF (22.5°) DEGREE BENDS, PROPERLY ANCHORED.
- 2. ALL TEE'S, BENDS, CONNECTIONS, ETC. ARE CONSIDERED INCIDENTAL TO THE JOB.
- 3. PHYSICAL CONNECTIONS SHALL NOT BE MADE BETWEEN EXISTING AND NEW WATER MAINS UNTIL TESTING IS SATISFACTORILY COMPLETED.
- 4. MAINTAIN 10' HORIZONTAL CLEARANCE BETWEEN OUTER EDGE OF WATERMAIN AND ANY SANITARY SEWER OR STRUCTURE.
- 5. ALL WATER MAIN SHALL BE DUCTILE IRON CLASS 54 WITH POLYETHYLENE WRAP.

SANITARY SEWER NOTES:

- DOWNSPOUTS, WEEP TILE, FOOTING DRAINS OR ANY CONDUIT THAT CARRIES STORM OR GROUND WATER SHALL NOT BE ALLOWED TO DISCHARGE INTO A SANITARY SEWER.
- 2. ALL SANITARY LEADS SHALL BE CONSTRUCTED OF PVC SDR 23.5 AT 1.00% MINIMUM SLOPE.
- 3. ALL SANITARY SEWER SHALL BE CONSTRUCTED OF PVC TRUSS PIPE WITH A MINIMUM DIAMETER OF 8" PER CITY REQUIREMENTS.
- 4. JOINTS FOR P.V.C. SOLID WALL PIPE SHALL BE ELASTOMERIC (RUBBER GASKET) AS SPECIFIED IN A.S.T.M. DESIGNATION D-3212.



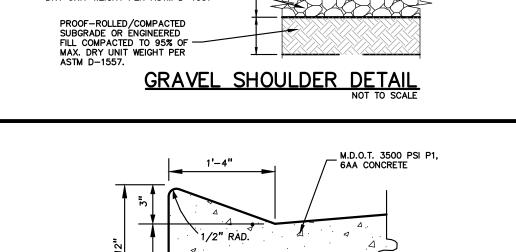
SECTION B-B

P1 6AA CONCRETE

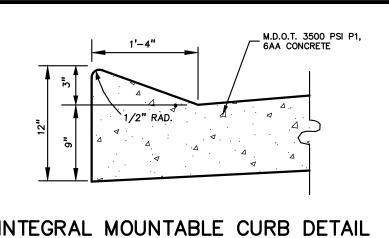
SECTION C-C

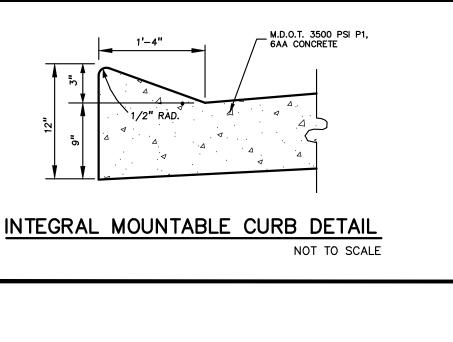
SUBGRADE COMPACTED T

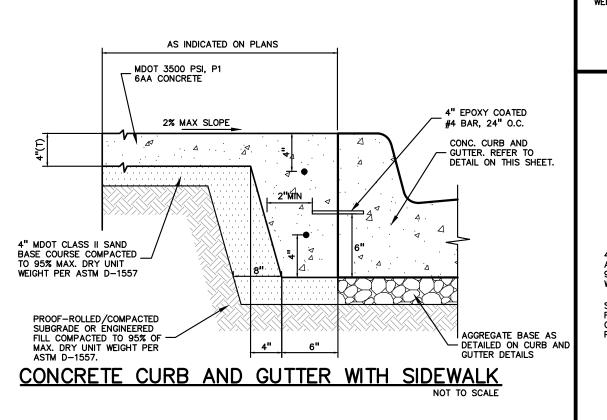
PER ASTM D-1557

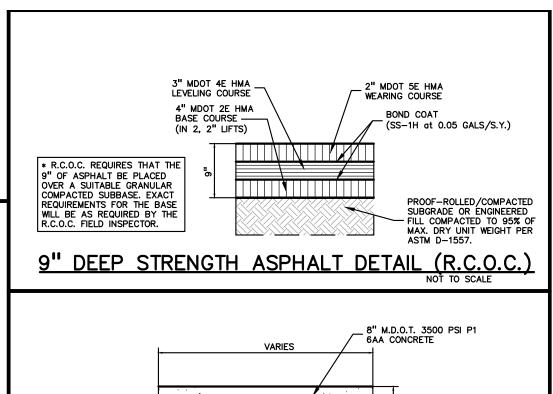


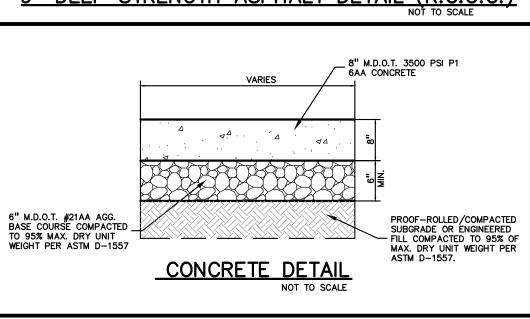
8" MDOT #22A AGGREGATE BASE COURSE COMPACTED TO 95% MAX.

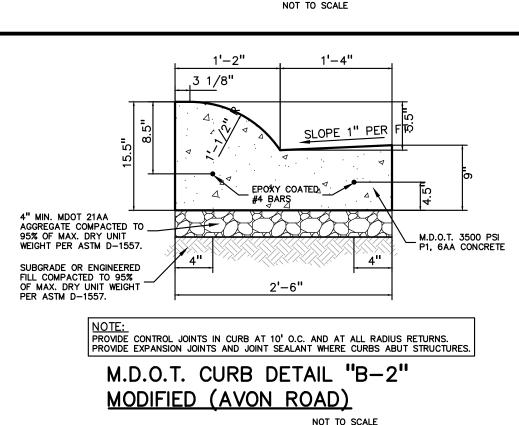


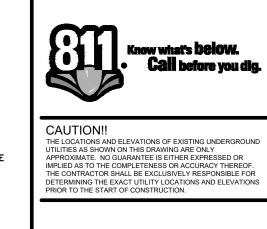












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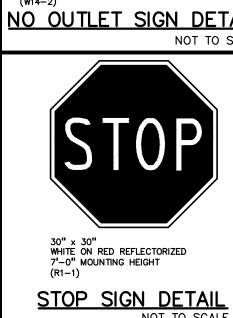
TO 8" NATURAL STON RIP-RAP SET IN CONCRETE

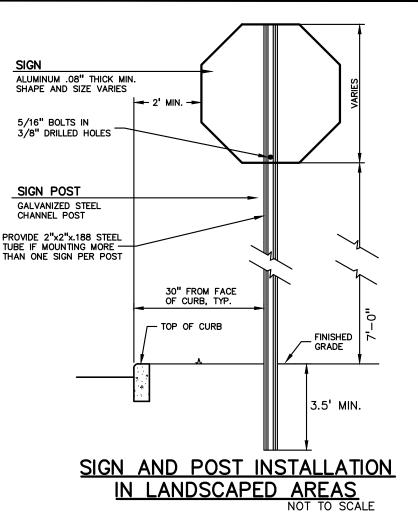
8" THICK CONCRETE

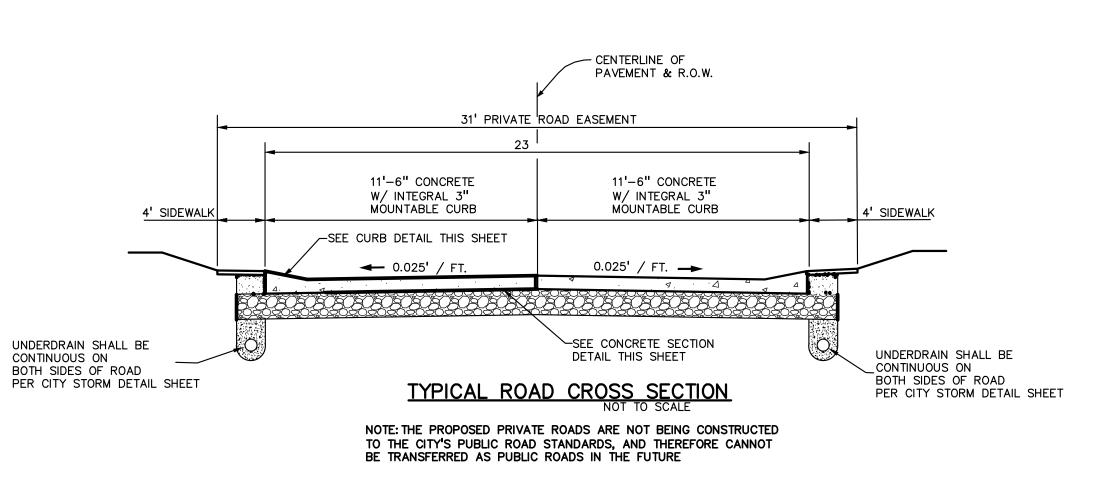
SECTION A-A

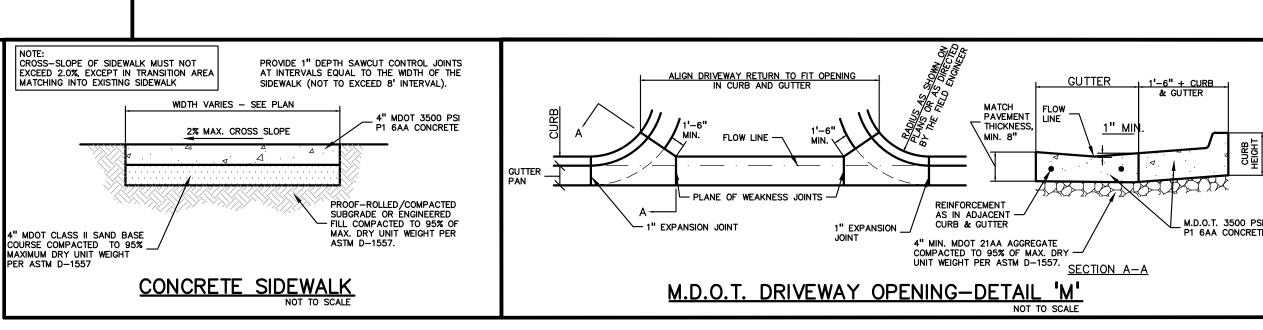
APPROVED GEOTEXTILE

CONCRETE CURB SPILLWAY DETAIL



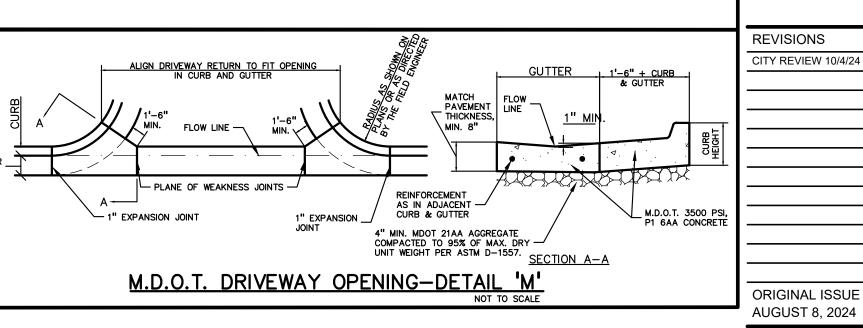








CLIENT



ORIGINAL ISSUE DATE: AUGUST 8, 2024 **DRAWING TITLE**

NOTES AND DETAILS

2018-423

JBT

KΡ

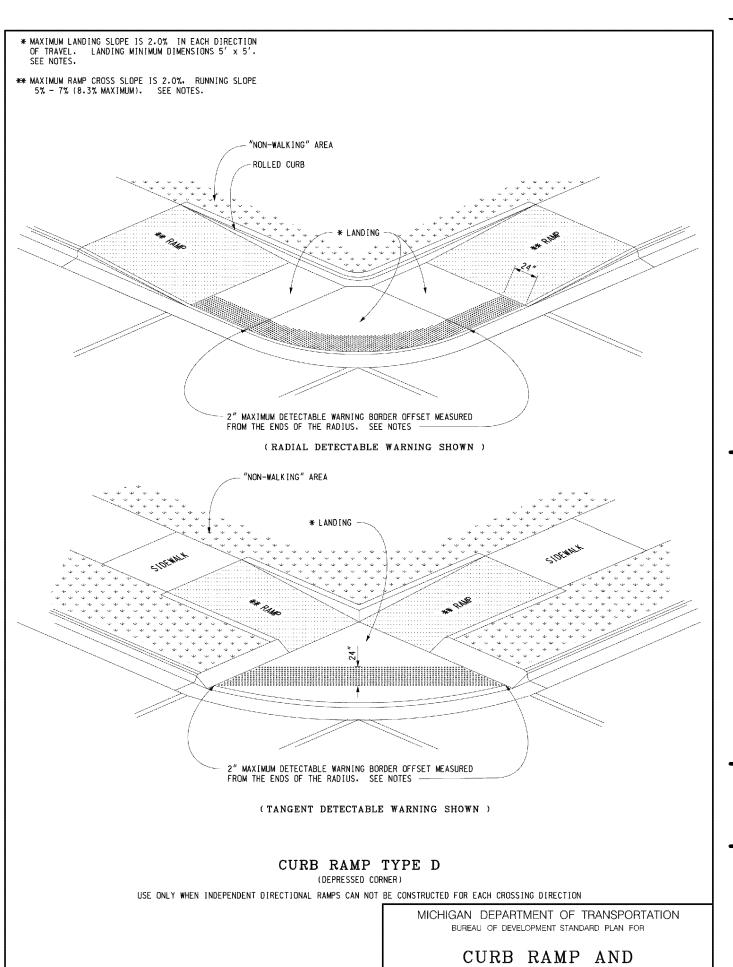




DN. DES. DSK DRAWING NUMBER: C-6.0

PEA JOB NO.

PM



PEA GROUP t: 844.813.2949



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CLIENT

WOLVERINE BUILDING COMPANY 14955 TECHNOLOGY DRIVE SHELBY TOWNSHIP, MICHIGAN

PROJECT TITLE

CAMBRIDGE KNOLL 165 & 185 E. AVON ROAD CITY OF ROCHESTER HILLS, MICHIGAN

REVISIONS
CITY REVIEW 10/4/24 10/25/24

ORIGINAL ISSUE DATE:

DRAWING TITLE

NOTES AND DETAILS

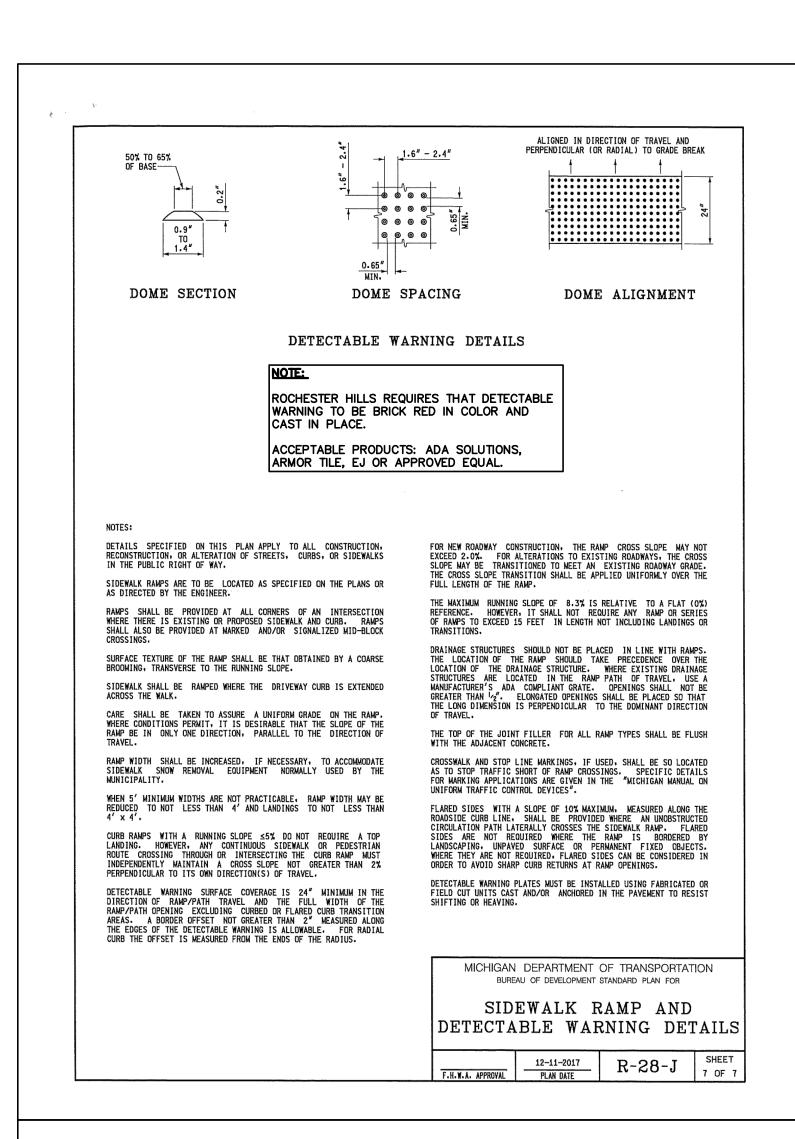
PEA JOB NO. 2018-423
P.M. JBT
DN. KP
DES. DSK
DRAWING NUMBER:

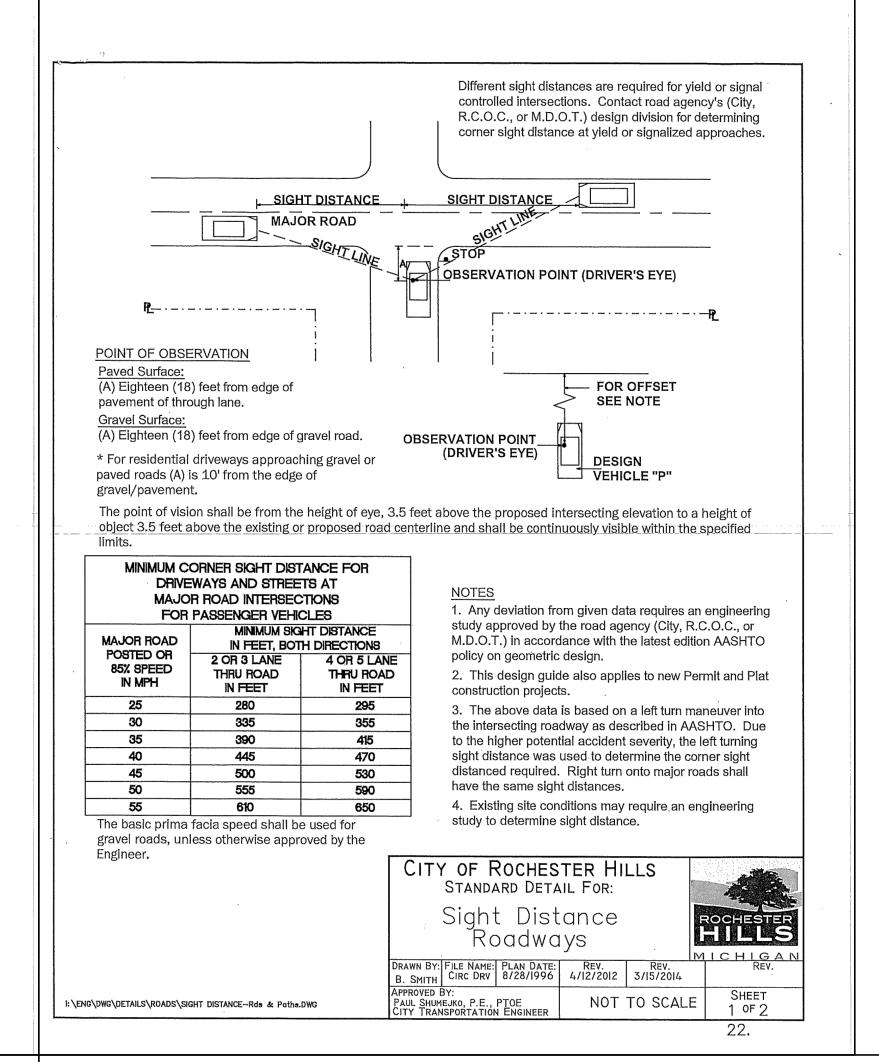


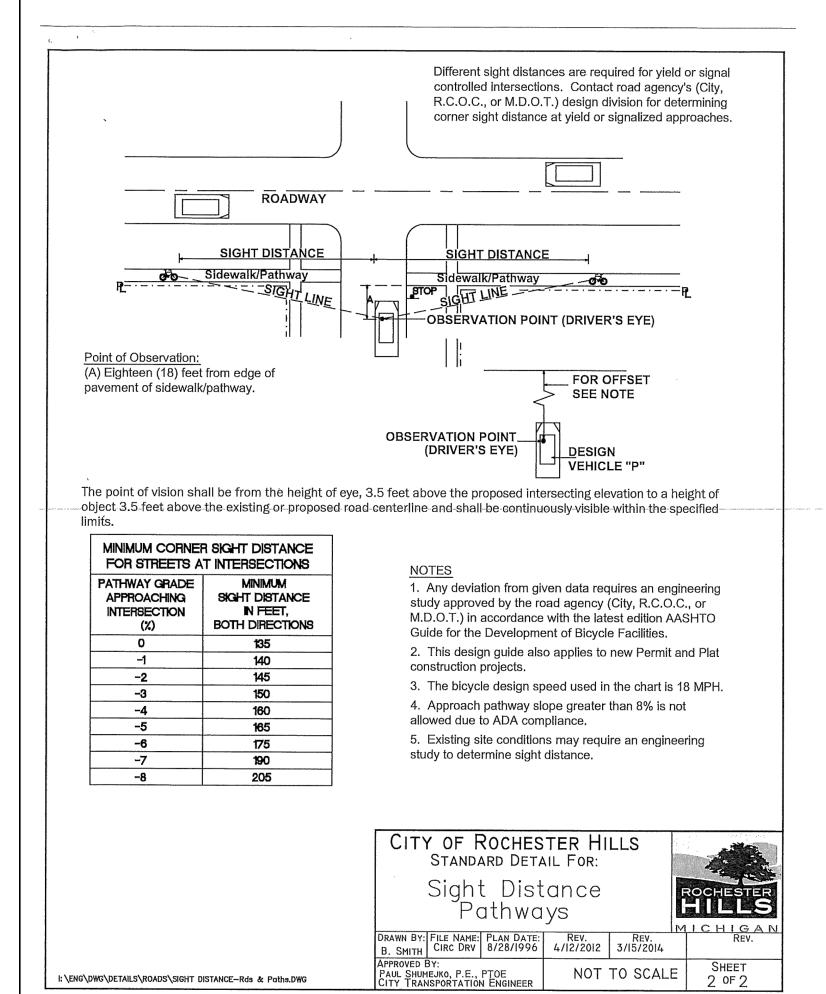
DETECTABLE WARNING DETAILS

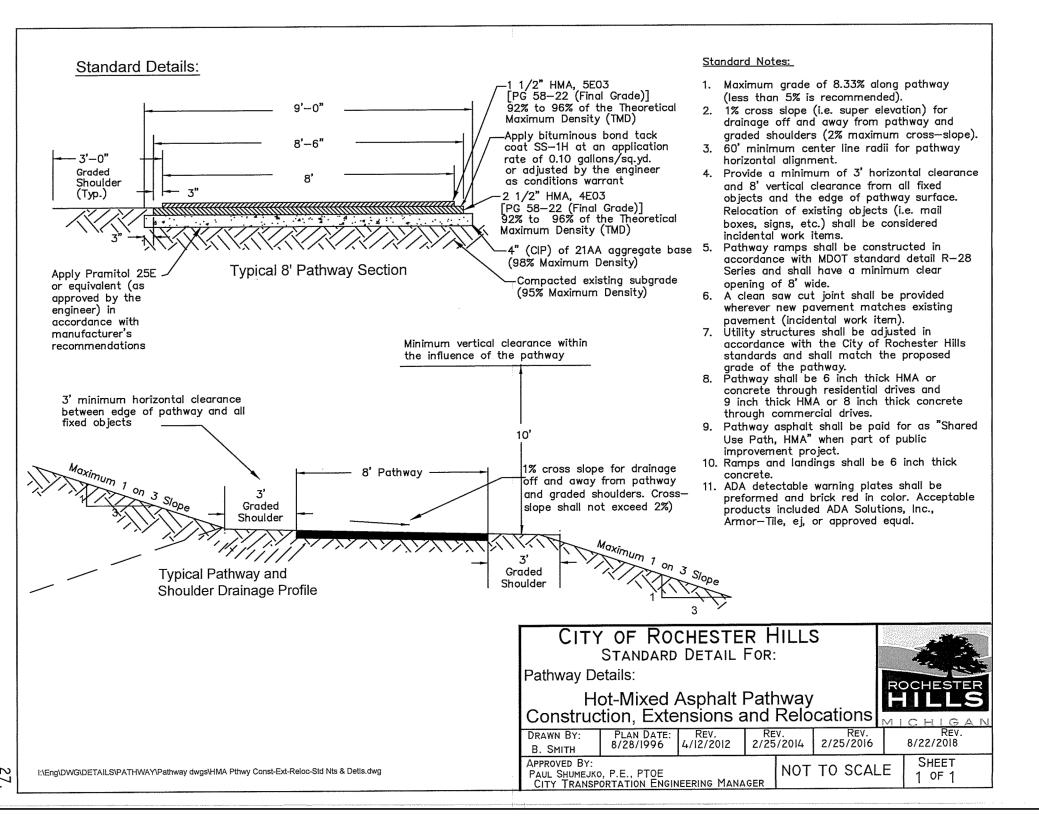
R-28-J

5-8-2020















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NOTES AND

AUGUST 8, 2024

DETAILS

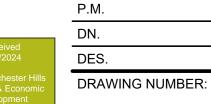
2018-423

JBT KP

DSK

J2024-0026
PSC2024-0002
Revision #2

Receive
11/4/20
City of Rocher
Planning & Editor



PEA JOB NO.

CAMBRIDGE KNOLL

LANDSCAPE PLANS

4.72 ACRE DEVELOPMENT Rochester Hills, Oakland County, Michigan

SECTION 14 TOWN 3 NORTH, RANGE 11 EAST

Site Data

THE CURRENT ZONING CLASSIFICATION IS R-3 WITH MR MIXED RESIDENTIAL **OVERLAY** GROSS AREA 4.72 AC.

DENSITY: AREA = 4.72 AC

UNITS - 16 SINGLE FAMILY DETACHED CONDOMINIUMS

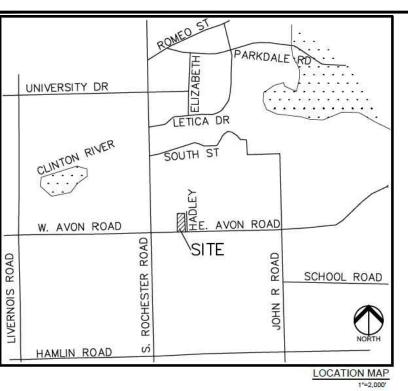
COVERAGE - 3.38 UNIT/ACRE = 16 UNITS

SETBACKS: FRONT: 30' FROM PROPERTY LINE

SIDE: 15' FROM PROPERTY LINE REAR: 60' FROM PROPERTY LINE

SIDEWALK PROVIDED ROADS ARE TO BE PRIVATE

LOCATION MAP



LEGAL DESCRIPTION

(Per City of Rochester Hills Online Property Search)

PARCEL NO. 15-14-351-020 T3N R11E, SECTION 14 PART OF SOUTHWEST 1/4 BEG AT POINT DISTANT EAST 1065.88 FEET FROM

SOUTHWEST SECTION CORNER, THENCE N00°36'45"E 732.25 FEET, THENCE N89°51'00"E 118.80 FEET, THENCE S00°36'45"W 732.56 FEET THENCE WEST 118.80 FEET TO THE POINT OF BEGINNING.

T3N, R11E, SECTION 14 EAST 148.50 FEET OF WEST 1353 FEET OF SOUTH 732.50 FEET OF SOUTH 1/2 OF SOUTHWEST 1/4, ALSO PART OF SOUTHWEST 1/4 BEG AT PT DIST EAST 1184.68 FEET FROM

SOUTHWEST SECTION CORNER, THENCE EAST 19.82 FEET, THENCE N00°19'00"W 732.20 FEET, THENCE S89°51'00"W 8.16 FEET, THENCE S00°35'45"W 732.56 FEET TO POINT OF BEGINNING.

(As surveyed by PEA, Inc.)

COMBINED PARCEL (Parcels 15-14-351-020 & 15-14-351-058)
A parcel of land located in the Southwest 1/4 of Section 14, Town 3 North, Range 11 East, City of Rochester Hills, Oakland County, Michigan, being more particularly described as:

Commencing at the Southwest corner of said Section 14; thence along the south line of said section, EAST 1065.88

thence N00°33'27"E, 732.34 feet to the southerly line of "Heatherwood Village No. 1", as recorded in Liber 172,

thence along said southerly line, N89°52'03"E, 274.67 feet to the westerly line of said subdivision; thence along said westerly line, S00°25'05"E, 732.96 feet to the aforementioned south line of said Section 14;

thence along said south line, WEST 287.15 feet to the Point of Beginning. Subject to the rights of the public over the south 33 feet, known as Avon Road.

Containing 4.725 gross acres of land, more or less and 4.507 net acres of land, more or less

NOTES

SHEET INDEX

GENERAL

Cover

ENGINEERING SHEET INDEX DIMENSION PLAN TOPOGRAPHIC SURVEY C-2.0 C-3.0 **DEMOLITION PLAN** C-4.0 **ROAD PROFILE**

C-5.1 **GRADING PLAN GRADING DETAIL SHEET** C-5.2 C-6.0 SOIL EROSION CONTROL PLAN C-7.0

SANITARY SEWER PLAN & PROFILE WATER MAIN PLAN & PROFILE C-7.1 STORM SEWER PLAN C-8.1

C-8.2 **STORM SEWER PROFILES** C-8.3 **DETENTION CALCULATION SHEET DRAINAGE AREA PLAN** C-9.0

C-10.1 **NOTES & DETAILS MDOT RAMP DETAIL** C-10.2 C-10.3 **ROCHESTER HILLS STANDARD DETAILS**

C-11.0 **SOIL BORING SHEET CITY OF ROCHESTER HILLS SANITARY SEWER DETAILS (2 SHEETS)** CITY OF ROCHESTER HILLS STORM SEWER DETAILS (1 SHEET) **CITY OF ROCHESTER HILLS WATER MAIN DETAILS (3 SHEETS)**

LANDSCAPE SHEET INDEX

G-1.0 Cover **EXISTING TREE SURVEY** T-1.0 T-1.1 TREE IMPACT ANALYSIS LA-1.0 LANDSCAPE CONCEPT PLAN LA-1.1 LANDSCAPE PLANTING PLAN

LA-1.1A REPLACEMENT TREE CREDIT PLAN PATHWAY SIGHTLINE, CLEAR ZONE & PLANTING SETBACKS LA-1.2

SEEDING PLAN LA-1.3 LA-1.4 PARKETTE CONCEPT

LA-1.5 **AMENITIES** LANDSCAPE PLANTING DETAILS & NOTES LA-2.0

IR-1.0 IRRIGATION PLAN

IR-1.1 **IRRIGATION DETAILS**

PROJECT TEAM

CLIENT / APPLICANT

M2J1, LLC. JIM POLYZOIS 14955 Technology Dr.

SHELBY TWP, MICHIGAN 48315 PHONE: (586) 421-5729

PROJECT LANDSCAPE ARCHITECT/PLANNER

NÚÑEZDESIGN, INC. RALPH L. NÚÑEZ, RLA, CLARB, ASLA 30645 Woodgate Drive SOUTHFIELD, MICHIGAN 48076 PHONE: (248) 224-5933

CIVIL ENGINEER

PEA GROUP JOHN B. THOMPSON, PE 2430 ROCHESTER COURT, STE. 100 TROY, MICHIGAN 48083-1872

PHONE: (844) 813 -2949 EMAIL: JTHOMPSON@PEAGROUP.COM

ISSUED FOR

LANDSCAPE PLANS





Cambridge Knoll, Inc.

Jim Polyzois 14955 Technology Drive, Shelby Twp., MI 48315 Phone: (586) 421-5729

Date: 8/1/2019 Date/Revisions: Submitted for Preliminary Review 8/2/2019 Submitted for Preliminary Review 7/8/2020 PC Submittal - Revision

12/7/2020 Final CC Approval 2/11/2022 Final Landscape Plans 6/3/2024 Preliminary & Final Submittal

10/2/2020 PC Final Submittal

8/26/2024 Review Comments Submittal

10/28/2024 Review Comments Submittal



30645 Woodgate Drive Southfield, MI 48076 P: 248.224.5933 nunezdesigninc@gmail.com

Designed/Drawn: RN / JN

N-01-50 LA Amenities.dwg



CITY REFERENCE NUMBER

City File: #19-033





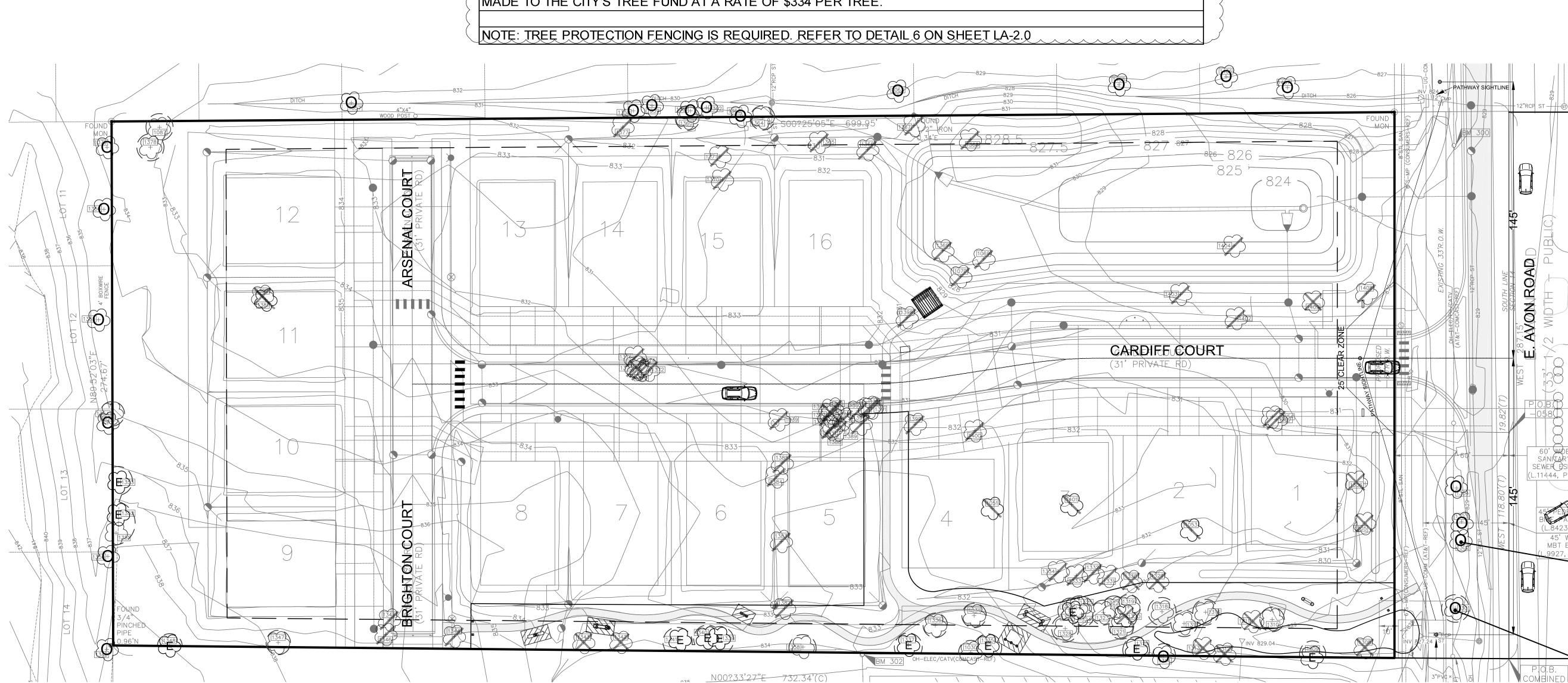


G-1.0 CITY FILE: #19-033 SECTION #:14

NATURAL FEATURES:

- 1. MEASURES WERE TAKEN TO PRESERVE EXISTING FEATURES ON SITE AND MINIMIZE ENVIRONMENTAL IMPACTS, ESPECIALLY WITH REGARD TO MAINTAINING AS MANY TREES AS POSSIBLE ALONG THE NORTH AND WEST BORDERS OF THE
- 2. THE SITE IS SUBJECT TO THE CITY'S TREE CONSERVATION ORDINANCE. TREES GREATER THAN 6" CALIPER THAT WILL BE REMOVED MUST BE REPLACED WITH ONE CREDIT. SPECIMEN TREES AS DESIGNATED BY THE CITIES PRESERVATION ORDINANCE WITH 24 INCHES DBH OR GREATER, WILL BE REPLACED AT 50% DBH IF REMOVED OR PROVIDE ONE TREE CREDIT (ONE 2" TREE) IF PRESERVED.
- 3. A MINIMUM OF 40% OF REGULATED TREES MUST BE PRESERVED FOR ALL TYPES OF DEVELOPMENTS.
- 4. TREES WITHIN THE BUILDING ENVELOP ARE ASSUMED TO BE REMOVED AND THEREFORE ARE NOT INCLUDED WITHIN THE 40% PRESERVATION REQUIREMENT. THESE TREES MUST BE REPLACED OR PAID INTO THE CITY TREE FUND.
- 5. TREE REPLACE COST INTO THE CITY TREE FUND IS \$334.00 PER REPLACEMENT CREDIT.
- 6. ALL REMAINING REGULATED TREES SHALL BE PROTECTED FROM DAMAGE WITH PROTECTIVE FENCING DURING CONSTRUCTION AND THERE SHALL BE NO CONSTRUCTION OR DEVELOPMENT ACTIVITY WITHIN THEIR DRIPLINE.
- 7. THE SITE DOES NOT CONTAIN REGULATED WETLANDS.
- 8. THE SITE DOES NOT CONTAIN A REGULATED NATURAL FEATURES.
- 9. SOIL TYPES ON SITE: 6bgk Marlette sandy loam, 1 to 6 percent slopes 6bgp Capac sandy loam, 0 to 4 percent slopes
- 10. THE SITE DOES NOT CONTAIN ANY REGULATED STEEP SLOPES. REVIEW ENGINEERING TOPOGRAPHY SURVEY.

TOTAL TREES TAGGED	12
DEAD/DISEASED TREES (EXEMPT)	-1
OFFSITE TAGGED TREES (EXEMPT)	-2
REGULATED TREES ON SITE (49 regulated + 35 specimen trees)	8
REGULATED TREES WITHIN BUILDING ENVELOPE	
TREES WITHIN PRESERVATION PERCENTAGE AREA	8
PRESERVATION MINIMUM OF 40% (80 x 40%)	32 TREES REQUIRE
PRESERVED REGULATED TREES	16 TREES PROVIDE
PRESERVED SPECIMEN TREES	18 TREES PROVIDE
TOTAL TREES PRESERVED	34 TREES PROVIDE
REGULATED TREES REMOVED	33 TREES REQUIRE
17 SPECIMEN TREES REMOVED (50% DBH = 220.5" / 2" tree = 110.25 trees replaced)	111 TREES REQUIRE
TOTAL REPLACEMENT TREES REQUIRED (33 + 111)	144 TREES REQUIRE
CREDITS PROVIDED FOR SPECIMEN TREES	-18 TREES CREDIT
TREE REPLACEMENTS PROVIDED ON PLAN	-59 TREES PROVIDE
TOTAL REPLACEMENT CREDITS DUE	67 TREES REQUIRE
AMOUNT TO BE PAID INTO CITY'S TREE FUND 67 X \$334)	\$22,37
TREE FUND	
F REQUIRED TREES CANNOT BE PLANTED DUE TO INFRASTRUCTURE CONFLICTS, A PAY	MENT IN LIEU OF MAY BI
MADE TO THE CITY'S TREE FUND AT A RATE OF \$334 PER TREE.	



NOTE: PRESERVED TREES ARE COUNTED AS FULFILLING BUFFER REQUIREMENTS





REGULATED TREE



EXEMPT TREE - DEAD OR DISEASED REMOVED



EXEMPT TREE OFFSITE TREE



DECIDUOUS TREE - SAVED TREE PROTECTION FENCING



EVERGREEN TREE - SAVED TREE PROTECTION FENCING



REGULATED TREE REMOVED FROM PRESERVATION PERCENTAGE AREA & TREE CREDIT REPLACEMENT REQUIRED



REGULATED TREE REMOVED FROM BUILDING ENVELOPE & TREE CREDIT REPLACEMENT REQUIRED



CAMBRIDGE KNOLL

Cambridge Knoll, Inc. Jim Polyzois 14955 Technology Drive, Shelby Twp., MI 48315 Phone: (586) 421-5729

Date: 8/1/2019 Date/Revisions: Submitted for Preliminary Review 8/2/2019 Submitted for Preliminary Review
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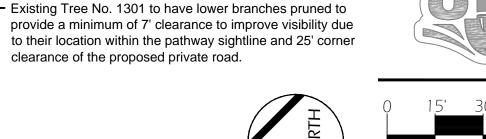
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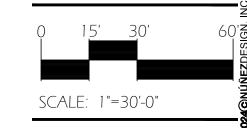
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30645 Woodgate Drive Southfield, MI 48076

P: 248.224.5933 nunezdesigninc@gmail.com Designed/Drawn: RN / JN

Job # N-01-50 N-01-50 LA Submittal.clwg





CITY FILE: #19-033 SECTION #:14



clearance of the proposed private road.

Existing R.O.W. Trees No. 1302, 1303, 1304 to be removed per RCOC review dated 9/5/19 for roadway



NOTE:

improvements.

NOTE:

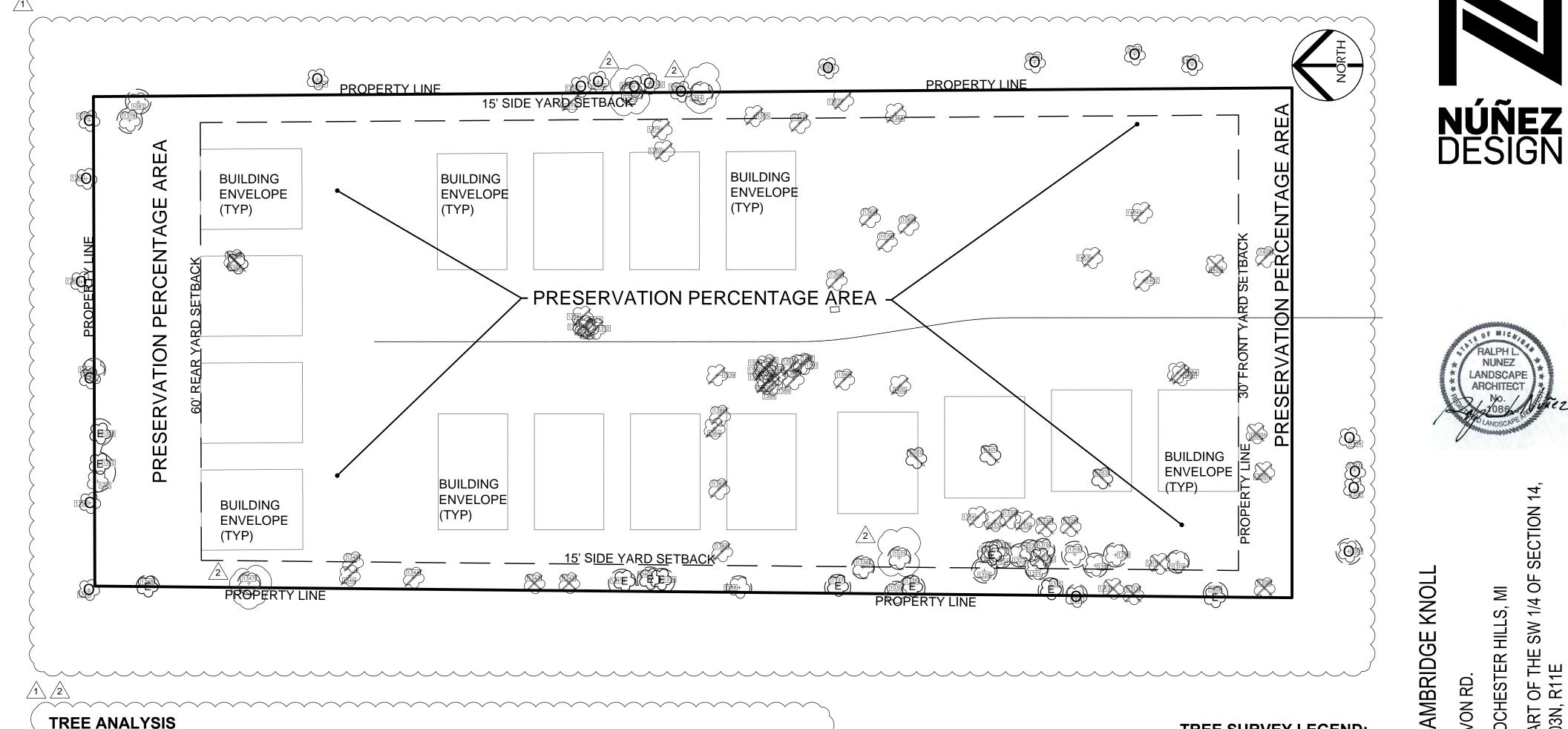
J2024-0026
PSC2024-0002
Revision #2

TREE SURVEY

• [TREE SURVEY BY PEA GROUP					ANALYSIS BY NÚÑEZDESIGN											
	NO.	CODE	DBH	COMMON NAME	LATIN NAME	COND.	Exen Dead /		Building Envelope Regulated Trees 1:1	Trees			Preserv	ation Percent		Regulated Trees 1:1	Preserved
							Diseased		Removed/Replaced	Within	Exempt	(S)	Credit (1)	50% DBH	(Reg)	Removed/Replaced	
	1301 1302	BS WS	1 14	Blue Spruce White Spruce	Picea pungens Picea glauca	Good Poor		Offsite Offsite	/		X						
	1303 1304	BS BS	17 17	Blue Spruce Blue Spruce	Picea pungens Picea pungens	Poor Fair		Offsite Offsite			X						
	1305 1306	BS BW	22 7	Blue Spruce Black Walnut	Picea pungens Juglans nigra	Fair Dead	Dead			✓	Х	S		11			
	1307 1308	BX WW	8 49	Box elder Weeping Willow	Acer negundo Salix babylonica	Fair Dead	Dead			√	X				Reg	Removed	
	1309 1310	NS SM	16 25	Norway Spruce Silver Maple	Picea Abies Acer saccharinum	Fair Fair	Dead			✓ ✓		S	Preserved		Reg		Preserved
	1311 1312	SM WP	23 14	Silver Maple Silver Maple (Eastern) White Pine	Acer saccharinum Pinus strobus	Dead Dead	Dead Dead			•	X		Fieseiveu				
	1313 1314	WP BS	15 12	(Eastern) White Pine Blue Spruce	Pinus strobus Picea pungens	Dead Good	Dead	Offsite			X						
ļ	1315 1316	BS SM	11 29	Blue Spruce Silver Maple	Picea pungens Acer saccharinum	Fair Fair				✓ ✓		S	Preserved		Reg		Preserved
	1317 1318	SM	23 31	Silver Maple Silver Maple	Acer saccharinum Acer saccharinum	Very Poor Fair				✓		S	Preserved Preserved				
	1319	SM	24	Silver Maple	Acer saccharinum	Fair	Dood			√	V	S	Preserved				
-	1320 1321	BS SM	13 21	Blue Spruce Silver Maple	Picea pungens Acer saccharinum	Dead Fair	Dead			√	Х	S	Preserved		_		
	1322 1323	SM SM	13 18	Silver Maple Silver Maple	Acer saccharinum Acer saccharinum	Fair Fair			>	✓ ✓		S	Preserved		Reg		Preserved
	1324 1325	SM	6 12	Silver Maple Silver Maple	Acer saccharinum Acer saccharinum	Fair Fair				√ √					Reg Reg		Preserved Preserved
	1326 1327	SM RC	28 17	Silver Maple Red Cedar	Acer saccharinum Juniperus virginiana	Good Fair				✓		S	Preserved Preserved				
	1328 1329	WC WC	6 9	White Cedar White Cedar	Thuja occidentalis Thuja occidentalis	Good Dead	Dead			✓	Х				Reg		Preserved
	1330 1331	WC WC	10 9	White Cedar White Cedar	Thuja occidentalis Thuja occidentalis	Dead Fair	Dead			√	Х				Reg	Removed	
	1332 1333	WC WC	10 12	White Cedar White Cedar	Thuja occidentalis Thuja occidentalis	Poor Poor				√					Reg Reg	Removed Removed	
ŀ	1334 1335	WC BS	12 24	White Cedar Blue Spruce	Thuja occidentalis Picea pungens	Fair Fair				✓		S	Preserved		Reg	Removed	
ļ	1336 1337	AP SC	21	Domestic Apple Scotch Pine	Malus sylvestris Pinus sylvestris	Fair Fair				√		S	Preserved Preserved				
	1338 1339	SM	37 10	Silver Maple White Spruce	Acer saccharinum Picea glauca	Fair Good				√ ✓		S	Preserved		Reg		Preserved
	1340	BS	19	Blue Spruce	Picea pungens	Fair				✓		S	Preserved		Neg		Fleseiveu
	1341 1342	NS SC	24 17	Norway Spruce Scotch Pine	Picea Abies Pinus sylvestris	Good Dead	Dead			· ·	X	5	Preserved				
	1343 1344	WS BS	20 17	White Spruce Blue Spruce	Picea glauca Picea pungens	Dead Fair	Dead			√	Х				Reg	Removed	
	1345 1346	MW WS	13 20	White Mulberry White Spruce	Morus alba Picea glauca	Fair Good			>	✓		S		10	Reg	Removed	
/2\	1347 1348	BS SC	22 16	Blue Spruce Scotch Pine	Picea pungens Pinus sylvestris	Fair Fair				✓		S	Preserved		Reg		Preserved
	1349 1350	SC BX	14 26	Scotch Pine Box elder	Pinus sylvestris Acer negundo	Fair Poor		Offsite Offsite			X						
	1351 1352	MW NS	8 13	White Mulberry Norway Spruce	Morus alba Picea Abies	Fair Fair				√					Reg Reg		Preserved Preserved
	1353 1354	WP WP	10 19	(Eastern) White Pine (Eastern) White Pine	Pinus strobus Pinus strobus	Fair Fair				√		S	Preserved		Reg		Preserved
	1355 1356	BX AP	35 19	Box elder Domestic Apple	Acer negundo Malus sylvestris	Dead Poor		Offsite Offsite	1		X						
ļ	1357 1358	PW WC	30 10	White Poplar White Cedar	Populus alba Thuja occidentalis	Dead Fair		Offsite Offsite			X						
	1359 1360	WC WC	8	White Cedar White Cedar	Thuja occidentalis Thuja occidentalis Thuja occidentalis	Fair Fair		Offsite		✓	X				Reg		Preserved
/ _	1361	WC WC	7	White Cedar	Thuja occidentalis	Fair		Offsite	I	•	X				rveg		Fleseiveu
2	1362 1363	WC	7	White Cedar White Cedar	Thuja occidentalis Thuja occidentalis	Fair Fair		Offsite Offsite	1		X				Dee		Danagarad
/2	1364 1365	BX AP	13 11	Box elder Domestic Apple	Acer negundo Malus sylvestris	Fair Poor				✓ ✓					Reg Reg	Removed	Preserved
	1366 1367	BX EA	22 7		Acer negundo Euonymus europaeus	Fair Fair				✓ ✓		S		11	Reg	Removed	
	1368 1369	BC CT	19 50	Wild Black Cherry Cottonwood	Prunus serotina Populus deltoides	Fair Good			>	✓		S S		9.5 25			
	1370 1371	BX BX	20 15	Box elder Box elder	Acer negundo Acer negundo	Fair Fair				✓		S		10	Reg	Removed	
	1372 1373	BX BX	21 15	Box elder Box elder	Acer negundo Acer negundo	Fair Fair				✓		S		10.5	Reg	Removed	
	1374 1375	BX BX	14 12	Box elder Box elder	Acer negundo Acer negundo	Dead Fair	Dead			√	Х				Reg	Removed	
	1376 1377	BX BX	11 8	Box elder Box elder	Acer negundo Acer negundo	Fair Fair			>	√					Reg Reg	Removed Removed	
ļ	1378 1379	BX BX	28 31	Box elder Box elder	Acer negundo Acer negundo	Poor Fair		Offsite	>	✓	Х	S	Preserved		<u> </u>		
ļ	1380 1381	BX BX	24	Box elder Box elder	Acer negundo Acer negundo	Dead Fair	Dead		Removed		X	S		10			
-	1382 1383	BS BS	25 18	Blue Spruce Blue Spruce	Picea pungens Picea pungens	Fair Fair				✓ ✓		S		12.5			
-	1384 1385	WS BS	27 26	White Spruce Blue Spruce	Picea glauca Picea pungens	Fair Fair				✓ ✓		S		13.5 13			
	1386 1387	BX BX	8 7	Box elder Box elder	Acer negundo Acer negundo	Fair Fair				✓ ✓					Reg Reg	Removed Removed	
	1388 1389	BX BX	7 14 9	Box elder Box elder	Acer negundo Acer negundo Acer negundo	Fair Fair				✓					Reg Reg	Removed Removed	
-	1389 1390 1391	BX BX	7	Box elder Box elder	Acer negundo Acer negundo Acer negundo	Fair Fair Fair				✓ ✓					Reg Reg	Removed Removed	
	1392	BX	9	Box elder	Acer negundo	Fair				✓					Reg	Removed	
	1393 1394	BX BX	7 9	Box elder Box elder	Acer negundo Acer negundo	Fair Fair				✓ ✓					Reg Reg	Removed Removed	
	1395 1396	BX BX	10	Box elder Box elder	Acer negundo Acer negundo	Dead Fair	Dead			√	Х				Reg	Removed	
	1397 1398	BX BX	10 14	Box elder Box elder	Acer negundo Acer negundo	Fair Fair				√ ✓					Reg Reg	Removed Removed	
	1399 1400	BX BX	7 27	Box elder Box elder	Acer negundo Acer negundo	Dead Fair	Dead		>	√	Х	S		13.5			
	1401 1402	BS SC	21 22	Blue Spruce Scotch Pine	Picea pungens Pinus sylvestris	Good Fair			Removed	✓		S S		10.5 11			
	1403 1404	AP SM	10 33	Domestic Apple Silver Maple	Malus sylvestris Acer saccharinum	Fair Good				√		S		16.5	Reg	Removed	
-	1405 1406	NM WP	22 14	Norway Maple (Eastern) White Pine	Acer platanoides Pinus strobus	Fair Fair		Offsite Offsite	/		X						
}	1407 1408	WP SM	13 48	(Eastern) White Pine Silver Maple	Pinus strobus Acer saccharinum	Fair		Offsite		√	X	S		24			
<u>,</u>	1409 1030	RC BX	7	Red Cedar Box elder	Juniperus virginiana Acer negundo	Dead Good	Dead			,	Х				Reg		Preserved
2	1030	BX BX	7	Box elder Box elder	Acer negundo Acer negundo Acer negundo	Fair Good				✓ ✓					Reg Reg	Removed	Preserved
	1059 1051 1053	MW ER	9	White Mulberry Eastern Redubd	Morus alba Cercis canadensis	Good Good Poor			Removed Removed	· •					Reg Reg	Removed Removed	
-	1054	EE	12	Siberian Elm	Ulmus pumila	Good		O#		✓					Reg	Removed Removed	
-	1063 1069	BX PR	28	Box elder Pear	Acer negundo Pyrus communis	Good Fair		Offsite		√	Х				Reg	Removed	
	1070 1087	BX BX	6 7	Box elder Box elder	Acer negundo Acer negundo	Good Fair		·		✓ ✓					Reg Reg	Removed	Preserved
	1092 TOTA		11	Scotch Pine	Pinus sylvestris	Good		Offsite	<u> </u>		Х						

4 80 36 35 18 220.5 49 33 16

PRESERVATION PERCENTAGE AREA PLAN / BUILDING ENVELOPE



TREE ANALYSIS 120 TOTAL TREES TAGGED DEAD/DISEASED TREES (EXEMPT) OFFSITE TAGGED TREES (EXEMPT) REGULATED TREES ON SITE (49 regulated + 35 specimen trees) REGULATED TREES WITHIN BUILDING ENVELOPE TREES WITHIN PRESERVATION PERCENTAGE AREA PRESERVATION MINIMUM OF 40% (80 x 40%) 32 TREES REQUIRED 16 TREES PROVIDED PRESERVED REGULATED TREES 18 TREES PROVIDED PRESERVED SPECIMEN TREES 34 TREES PROVIDED TOTAL TREES PRESERVED 33 TREES REQUIRED REGULATED TREES REMOVED 111 TREES REQUIRED 17 SPECIMEN TREES REMOVED (50% DBH = 220.5" / 2" tree = 110.25 trees replaced) TOTAL REPLACEMENT TREES REQUIRED (33 + 111) 144 TREES REQUIRED CREDITS PROVIDED FOR SPECIMEN TREES -18 TREES CREDITS TREE REPLACEMENTS PROVIDED ON PLAN -59 TREES PROVIDED TOTAL REPLACEMENT CREDITS DUE 67 TREES REQUIRED AMOUNT TO BE PAID INTO CITY'S TREE FUND 67 X \$334) \$22,378 TREE FUND IF REQUIRED TREES CANNOT BE PLANTED DUE TO INFRASTRUCTURE CONFLICTS, A PAYMENT IN LIEU OF MAY BE MADE TO THE CITY'S TREE FUND AT A RATE OF \$334 PER TREE. NOTE: TREE PROTECTION FENCING IS REQUIRED. REFER TO DETAIL 6 ON SHEET LA-2.0

EXISTING R.O.W. TREES NO. 1302, 1303, 1304 TO BE REMOVED PER

EXISTING TREE NO. 1301 TO HAVE LOWER BRANCHES PRUNED TO

PROVIDE A MINIMUM OF 7' CLEARANCE TO IMPROVE VISIBILITY DUE

RCOC REVIEW DATED 9/5/19 FOR ROADWAY IMPROVEMENTS.

TO THEIR LOCATION WITHIN THE PATHWAY SIGHTLINE AND 25'

CORNER CLEARANCE TO THE PROPOSED PRIVATE ROAD.

NOTE:

TREE SURVEY LEGEND:

REGULATED TREE

MR - MIXED RESIDENTIAL **OVERLAY DISTRICT** BUILDING ENVELOPE

PERIMETER SETBACKS **REQUIREMENTS:** FRONT 30' SIDE 15' REAR 60'

EXEMPT TREE - DEAD OR DISEASED REMOVED

EXEMPT TREE





EVERGREEN TREE - SAVED TREE PROTECTION FENCING



REGULATED TREE REMOVED FROM PRESERVATION PERCENTAGE AREA & TREE CREDIT REPLACEMENT REQUIRED



REGULATED TREE REMOVED FROM BUILDING ENVELOPE & TREE CREDIT REPLACEMENT

6/3/2024 Preliminary & Final Submittal 10/28/2024 Review Comments Submittal

Cambridge Knoll, Inc.

14955 Technology Drive,

Shelby Twp., MI 48315

Phone: (586) 421-5729

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/11/2022 Final Landscape Plans

Jim Polyzois

Date: 8/1/2019

LANDSCAPE

30645 Woodgate Drive Southfield, MI 48076 P: 248.224.5933 nunezdesigninc@gmail.com

Designed/Drawn: RN / JN

N-01-50 LA Submittal.dwg



SCALE: 1"=40'-0"

CITY FILE: #19-033 SECTION #:14

T-1.1



REFER TO ENGINEERING DRAWING FOR TREE SURVEY.

PRESERVED TREES INDICATED ON SHEETS LA 1.0 &

REFER TO SHEET LA-2.0 FOR TREE PROTECTION

LA-1.1

DETAIL & NOTE





TREE IMPACT ANALYSIS

AVON ROAD - FRONTAGE = [A] SOUTH PROPERTY BOUNDARY: R.O.W. LANDSCAPING - 287 LF

1 deciduous / 35 LF, 1 ornamental / 60 LF PROPOSED REQUIRED EXISTING 287 / 35 = 8.2Deciduous Shade Trees 287 / 60 = 4.8Ornamental Trees

EAST PROPERTY BOUNDARY: TYPE 'B' BUFFER - 700 LF = [E]

2 deciduous / 100 LF, 2 evergreen / 100 LF, 1.5 ornamental / 100 LF, 4 shrubs / 100 LF REQUIRED EXISTING 10 = 11 $7 \times 2 = 14$ $7 \times 2 = 14$ **Evergreen Trees Ornamental Trees** 7 x 1.5 = 10.5 $7 \times 4 = 28$

NORTH PROPERTY BOUNDARY: TYPE 'B' BUFFER - 275 LF = [N] 2 deciduous / 100 LF, 2 evergreen / 100 LF, 1.5 ornamental / 100 LF, 4 shrubs / 100 LF

REQUIRED EXISTING PROVIDED Deciduous Shade Trees $2.75 \times 2 = 5.5$ 3 + 3 = 6 Evergreen Trees $2.75 \times 2 = 5.5$ 7 = 9 $2.75 \times 1.5 = 4.1$ **Ornamental Trees** $2.75 \times 4 = 11$ 11

WEST PROPERTY BOUNDARY: TYPE 'B' BUFFER - 700 LF = [W] 2 deciduous / 100 LF, 2 evergreen / 100 LF, 1.5 ornamental / 100 LF, 4 shrubs / 100 LF

REQUIRED EXISTING PROPOSED Deciduous Shade Trees $7.00 \times 2 = 14$ 0 = 15 Evergreen Trees $7.00 \times 2 = 14$ 5 = 14 Ornamental Trees 7.00 x 1.5 = 11 $7.00 \times 4 = 28$

3 GALLON CONTAINED SIZE WHEN USED FOR

OTHER PURPOSES

Groundcovers

SHALL BE FROM FLATS

TREE VERIFICATION

	Required	Existing Trees		Proposed On Plan	Totals (Existing + Proposed
Total Deciduous	68	18	+	48	66
Total Evergreen	40	11	+	37	48
Total Ornamental	32	-	+	32	32
Total Shrubs	91	-	+	106	106

LANDSCAPE BUFFER PLANTINGS REQUIRED:

TOTAL TREES: 68 Deciduous Trees + 40 Evergreen Trees = 108 Trees REQUIRED 66 Deciduous Trees + 48 Evergreen Trees = 114 Trees PROVIDED **TOTAL TREES:**

TOTAL ORNAMENTAL TREES: 32 Ornamental Trees REQUIRED = 32 Trees PROVIDED **TOTAL SHRUBS:** 91 Shrubs REQUIRED = 106 Shrubs PROVIDED

STORMWATER DETENTION BUFFER: TYPE 'A' BUFFER - 600 LF = [D]

1.5 deciduous / 100 LF, 1 evergreen / 100 LF, 4 shrubs / 100 LF

			REQUIRED	EXISTING	PROPOSED
Deciduous Shade Trees	6 x 1.5	= 9	9	Χ	9
Evergreen Trees	6 x 1	= 6	6	Χ	6
Shrube	6 v 1	- 24	24	v	24

UNIT STREET TREES ALONG PRIVATE DRIVE:

PROPOSED 16 UNITS X 1 DECIDUOUS SHADE TREE =

PRIOR TO THE RELEASE OF THE PERFORMANCE BOND, THE CITY OF ROCHESTER HILLS MUST INSPECT ALL LANDSCAPE PLANTINGS.

PROBABLE COST OF THE LANDSCAPE MATERIAL IS INCLUDED ON THE PLANS FOR FINAL APPROVAL. Refer to Sheet LA-1.1

AN AUTOMATIC IRRIGATION SYSTEM WILL IS INCLUDED FOR ALL LANDSCAPE AREAS AS REQUIRED BY CITY OF ROCHESTER HILLS

ALL LAWN AND PLANT BED AREAS TO BE IRRIGATED BETWEEN THE HOURS OF 12 AM

IRRIGATION OVERSPRAY SHALL NOT BROADCAST ONTO THE CITY PATHWAY

CITY OF ROCHESTER HILLS MAINTENANCE NOTES 138-12.109 1. LANDSCAPING SHALL BE KEPT IN A NEAT, ORDERLY AND HEALTHY GROWING CONDITION, FREE FROM DEBRIS AND REFUSE.

2. PRUNING SHALL BE MINIMAL AT TIME OF INSTALLATION, ONLY TO REMOVE DEAD OR DISEASED BRANCHES. SUBSEQUENT PRUNING SHALL ASSURE PROPER MATURATION OF PLANTS TO ACHIEVE THEIR APPROVED PURPOSE.

3. ALL DEAD, DAMAGED, OR DISEASED PLANT MATERIAL SHALL BE REMOVED IMMEDIATELY AND REPLACED WITHIN (6) SIX MONTHS AFTER IT DIES OR IN THE NEXT PLANTING SEASON, WHICH EVER COMES FIRST. THE PLANTING SEASON FOR THE DECIDUOUS PLANTS SHALL BE BETWEEN MARCH 1 AND JUNE 1. PLANT MATERIAL INSTALLED TO REPLACE DEAD OR DISEASED MATERIAL SHALL BE AS CLOSE AS PRACTICAL TO THE SIZE OF THE MATERIAL IT IS INTENDED TO REPLACE. THE CITY MAY NOTIFY PROPERTY OWNERS OF THE NEED TO REPLACE DEAD, DAMAGED, OR DISEASED MATERIAL.

4. THE APPROVED LANDSCAPE PLAN SHALL BE CONSIDERED A PERMANENT RECORD AND INTEGRAL PART OF THE SITE PLAN APPROVAL. UNLESS OTHERWISE APPROVED, ANY REVISIONS OR REMOVAL OF PLANT MATERIALS, OR NON-COMPLIANCE WITH THE MAINTENANCE REQUIREMENTS OF SECTION 138-12.109 WILL PLACE THE PARCEL IN NON-CONFORMITY WITH THE APPROVED LANDSCAPE PLAN AND BE A VIOLATION OF THE ORDINANCE.

5. IF PROTECTED TREES ARE DAMAGED, A FINE SHALL BE ISSUED ON AN INCH BY INCH BASIS AT A MONETARY RATE AS DEFINED BY THE FORESTRY DEPARTMENT.

TREE SYMBOL LEGEND: LARGE **EVERGREEN**

TRAFFIC NOTES:

RESPONSIBILITIES.

AVON ROAD.

1. IF PROPOSED ROADS ARE BUILT AS PRIVATE ROADS AND DO NOT

TRANSFERABLE TO THE CITY FOR MAINTENANCE / OWNERSHIP

2. A CITY RIGHT OF WAY PERMIT IS REQUIRED FOR WORK WITHIN E.

3. CITY SHALL FURNISH AND PLACE ALL PERMANENT R.O.W. STREET

responsibility of the developer.

MEET PUBLIC ROAD STANDARDS THEN THEY WILL NOT BE

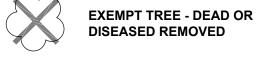
SIGNS WITH MONIES PAID BY DEVELOPER.

SHRUBS

TREE SURVEY LEGEND:

REGULATED TREE











EVERGREEN TREE - SAVED TREE PROTECTION FENCING



PROPOSED SIGN LOCATION REQUIRES

ALL SIGNS MUST MEET THE REQUIREMENTS

REGULATED TREE REMOVED FROM BUILDING ENVELOPE & TREE CREDIT REPLACEMENT

REQUIRED



CAMBRIDGE KNOLL

Cambridge Knoll, Inc. Jim Polyzois 14955 Technology Drive, Shelby Twp., MI 48315 Phone: (586) 421-5729

Date: 8/1/2019 Date/Revisions: Submitted for Preliminary Review 8/2/2019 Submitted for Preliminary Review 7/8/2020 PC Submittal - Revision 10/2/2020 PC Final Submittal 12/7/2020 Final CC Approval 2/11/2022 Final Landscape Plans

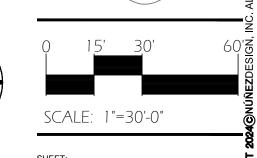
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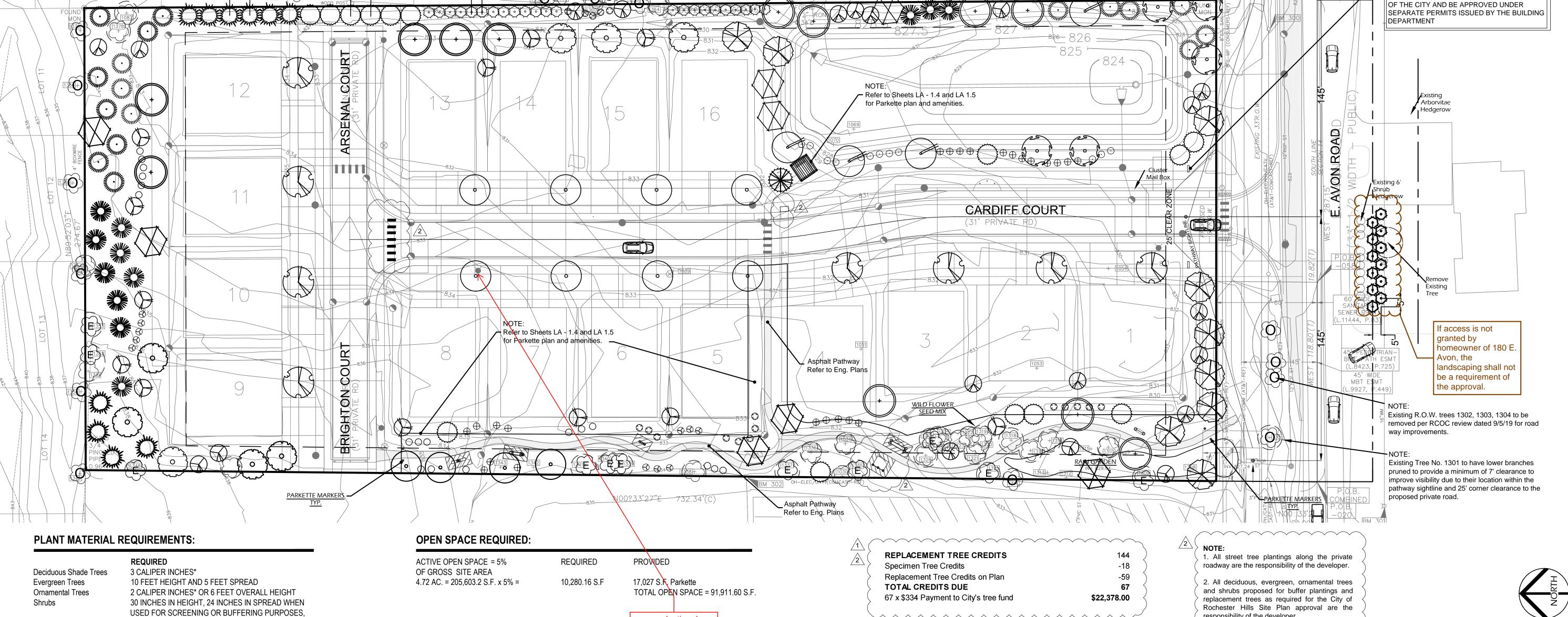
nunezdesigninc@gmail.com Designed/Drawn: RN / JN

Job # N-01-50 N-01-50 LA Submittal.dwg





LANDSCAPE CONCEPT PLAN



ensure planting does

not interfere with fire

hydrant

LANDSCAPE MATERIAL LIST:

_/ \ \ \		AI E MATERIAL LIOT.				
SHADE	TRE	ES				
QTY	KEY	BOTANICAL / COMMON NAME	SIZE	ROOT	UNIT COST	TOTAL / ITEM
4	AR	Acer rubrum 'Bowhall' / Bowhall Red Maple	3" cal	B&B	335.00	1,340.00
4	CE	Celtis occidentalis / Common Hackberry	3" cal	B&B	320.00	1,280.00
8	GT	Gleditsia triacanthos inemis / Thornless Honeylocust	3" cal	B&B	320.00	2,560.00
3	MG	Metasequoia Glyptostrobodies / Dawn Redwood	3" cal	B&B	335.00	1,005.00
5	PA	Platanus x acerifolia 'Columbia' / Columbia London Planetree	3" cal	B&B	335.00	1,675.00
7	QB	Quercus bicolor / Swamp White Oak	3" cal	B&B	335.00	2,345.00
8	TC	Tilia cordata 'Greenspire' / Greenspire Linden	3" cal	B&B	320.00	2,560.00
8	ZS	Zelkova serrata 'Musashino' / Musashino Japanese Zelkova	3" cal	B&B	335.00	2,680.00
EVERO	GREEN	TREES	•	•	•	
QTY	KEY	BOTANICAL / COMMON NAME	SIZE	ROOT	UNIT COST	TOTAL / ITEM
6	AB	Abies concolor / Concolor White Fir	10' ht x 5' sp	B&B	335.00	2,010.00
13	PG	Picea glauca / White Spruce	10' ht x 5' sp	B&B	320.00	4,160.00
1	PG14	Picea glauca / White Spruce	14' ht	B&B	450.00	450.00
9	PS	Pinus strobus / White Pine	10' ht x 5' sp	B&B	315.00	2,835.00
7	RP	Pinus densiflora / Korean Red Pine	10' ht x 5' sp	B&B	315.00	2,205.00
ORNA	MENT	AL TREES		•		
QTY	KEY	BOTANICAL / COMMON NAME	SIZE	ROOT	UNIT COST	TOTAL / ITEM
8	AC	Amelanchier canadensis / Shadblow Serviceberry	2" cal or 6' ht	B&B	250.00	2,000.00
12	CC	Cercis canadensis / Eastern Redbud	2" cal or 6' ht	B&B	265.00	3,180.00
12	SR	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	2" cal or 6' ht	B&B	265.00	3,180.00

QTY	KEY	BOTANICAL / COMMON NAME	SIZE / SPACING	ROOT	UNIT COST	TOTAL / ITEM
24	AA	Aronia arbutifolia 'Brillantissima' / Brilliant Red Chokeberry	30" ht, 24" sp	No. 5 Cont.	50.00	1,200.00
11	AM	Aronia melanocarpa 'Elata' / Glossy Black Chokeberry	30" ht, 24" sp			495.00
18	CR	Cornus racemosa / Gray Dogwood	30" ht, 24" sp	No. 5 Cont.	45.00	810.00
18	HS	Hibiscus syriacus 'SHIMRR38' / Lil' Kim Red Rose of Sharon	30" ht, 24" sp	No. 5 Cont.	50.00	900.00
12	РО	Physocarpus opulifolius 'Diabolo' / Diabolo Ninebark	30" ht, 24" sp	No. 5 Cont.	50.00	600.00
23	TO	Thuja occidentalis 'Wintergreen' / Wintergreen American Arborvitae	6' ht, 24" sp	B&B	150.00	3,450.00
PLANT	ING N	MATERIALS (Includes material needed for Sheets				
QTY						
(+/-)	UNIT	ITEM			UNIT COST	TOTAL / ITEM
23	CY	Plant Mix TBD			25.00	575.00
23	CY	Shredded Hardwood Mulch Installed TBD			45.00	1,035.00
	LBS	SoilMoist or Approved Equal (included in plant installation cost)				
LAWN						
78,905	SF	Seed or Sod (owner's option)			0.1	7,890.50
20,530	SF	Detention Basin & Raingarden Seed Mix			0.25	5,132.50
8,315	SF	Woodland Edge Seed Mix			0.25	2,078.75
	•	· •				
LANDS	CAPII	NG COST				\$59,316.75
IRRIGA	TION				LUMP SUM	\$21,500.00
SHEET	LA-1	.1 TOTAL:				\$80,816.75
SHEET	LA-1	.1A SUBTOTAL REPLACEMENT TREES				\$11,921.25
TOTAL						\$92,738.00

REPLACEMENT TREE **LEGEND:**

Replacement trees are labeled with the following designations

 $\overline{OB_2}$ 2" Caliper Shade Tree = 1 / 1 Replacement Credit



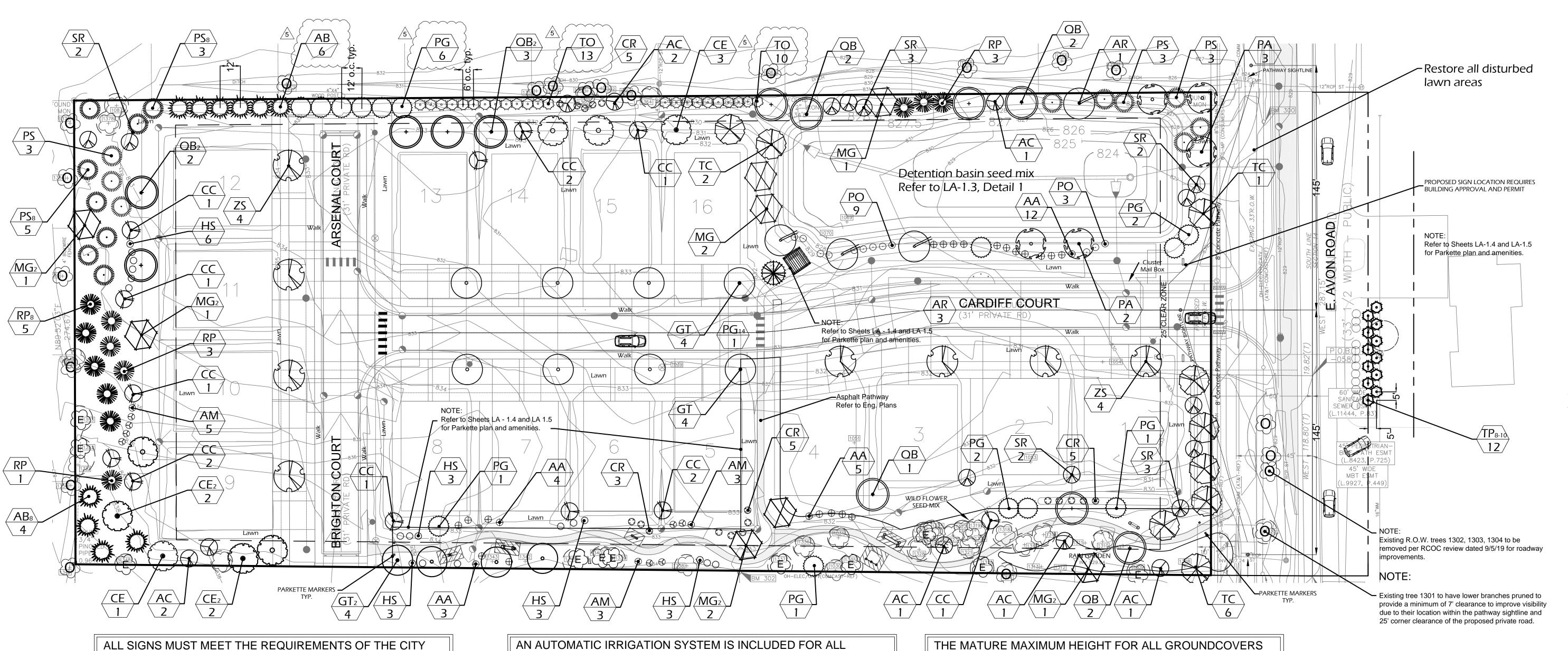
Refer to sheet LA-1.1A for Replacement Tree Credit Quantity



1. All street tree plantings along the private roadway are the responsibility of the developer. 2. All deciduous, evergreen, ornamental trees and shrubs proposed for buffer plantings and

responsibility of the developer.

replacement trees as required for the City of Rochester Hills Site Plan approval are the



ALL SIGNS MUST MEET THE REQUIREMENTS OF THE CITY AND BE APPROVED UNDER SEPARATE PERMITS ISSUED BY THE BUILDING DEPARTMENT

LANDSCAPE AREAS AS REQUIRED BY CITY OF ROCHESTER HILLS

ALL LAWN AND PLANT BED AREAS TO BE IRRIGATED BETWEEN THE HOURS OF 12 AM AND 5 AM ONLY

IRRIGATION OVERSPRAY SHALL NOT BROADCAST ONTO THE CITY PATHWAY

THE MATURE MAXIMUM HEIGHT FOR ALL GROUNDCOVERS AND PLANTINGS WITHIN THE 25' CLEARZONE IS 30" IN HEIGHT UNMAINTAINED.

PRIOR TO THE RELEASE OF THE PERFORMANCE BOND, THE CITY OF ROCHESTER HILLS MUST INSPECT ALL LANDSCAPE PLANTINGS.

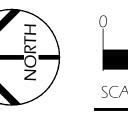
REVISED TO REFLECT UPDATED ENGINEERING







LANDSCAPE PLANTING PLAN



SCALE: 1"=30'-0"

LA -1.1 CITY FILE: #19-033 SECTION #:14

NÚÑEZ DESIGN

CAMBRIDGE KNOLL

Jim Polyzois 14955 Technology Drive, Shelby Twp., MI 48315 Phone: (586) 421-5729

Cambridge Knoll, Inc.

Date: 8/1/2019 Date/Revisions: Submitted for Preliminary Review 8/2/2019 Submitted for Preliminary Review 7/8/2020 PC Submittal - Revision 10/2/2020 PC Final Submittal 12/7/2020 Final CC Approval 2/11/2022 Final Landscape Plans 6/3/2024 Preliminary & Final Submittal

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N-01-50 LA Submittal.dwg

REPLACEMENT TREE CREDIT QUANTITY LIST.

REPLA	ACEME	ENT TREES				
SHADE	ETRE	ES				
QTY	KEY	BOTANICAL / COMMON NAME	SIZE	ROOT	UNIT COST	TOTAL / ITEM
4	CE ₂	Celtis occidentalis / Common Hackberry	2" cal	B&B	216.75	867.00
4	GT2	Gleditsia triacanthos inemis / Thornless Honeylocust	2" cal	B&B	216.75	867.00
5	MG2	Metasequoia Glyptostrobodies / Dawn Redwood	2" cal	B&B	216.75	1,083.75
5	QB2	Quercus bicolor / Swamp White Oak	2" cal	B&B	216.75	1,083.75
EVER	GREEN	N TREES		•	•	
QTY	KEY	BOTANICAL / COMMON NAME	SIZE	ROOT	UNIT COST	TOTAL / ITEM
4	AB8	Abies concolor / Concolor White Fir	8' ht	B&B	216.75	867.00
8	PS8	Pinus strobus / White Pine	8' ht	B&B	216.75	1,734.00
5	RP8	Pinus densiflora / Korean Red Pine	8' ht	B&B	216.75	1,083.75
12	TP8	Thuja plicata 'Green Giant' / Green Giant Arborvitae	8-10' ht	B&B	361.25	4,335.00
47 Replacement Trees = 59 Replacement Credits \$11,921.25						

\wedge		
$\frac{1}{2}$	REPLACEMENT TREE CREDITS	144
<u>/2</u> \ (> Specimen Tree Credits	-18
(Replacement Tree Credits on Plan	-59
(TOTAL CREDITS DUE	67
(67 x \$334 Payment to City's tree fund	\$22,378.00

REPLACEMENT TREE **LEGEND:**

Replacement trees are labeled with the following designations

 OB_2 2" Caliper Shade Tree = 1 Replacement Credit

 PS_8 8' Ht. Evergreen Tree = 1 / 1 Replacement Credit

Refer to sheet LA-1.1A for Replacement Tree Credit Quantity

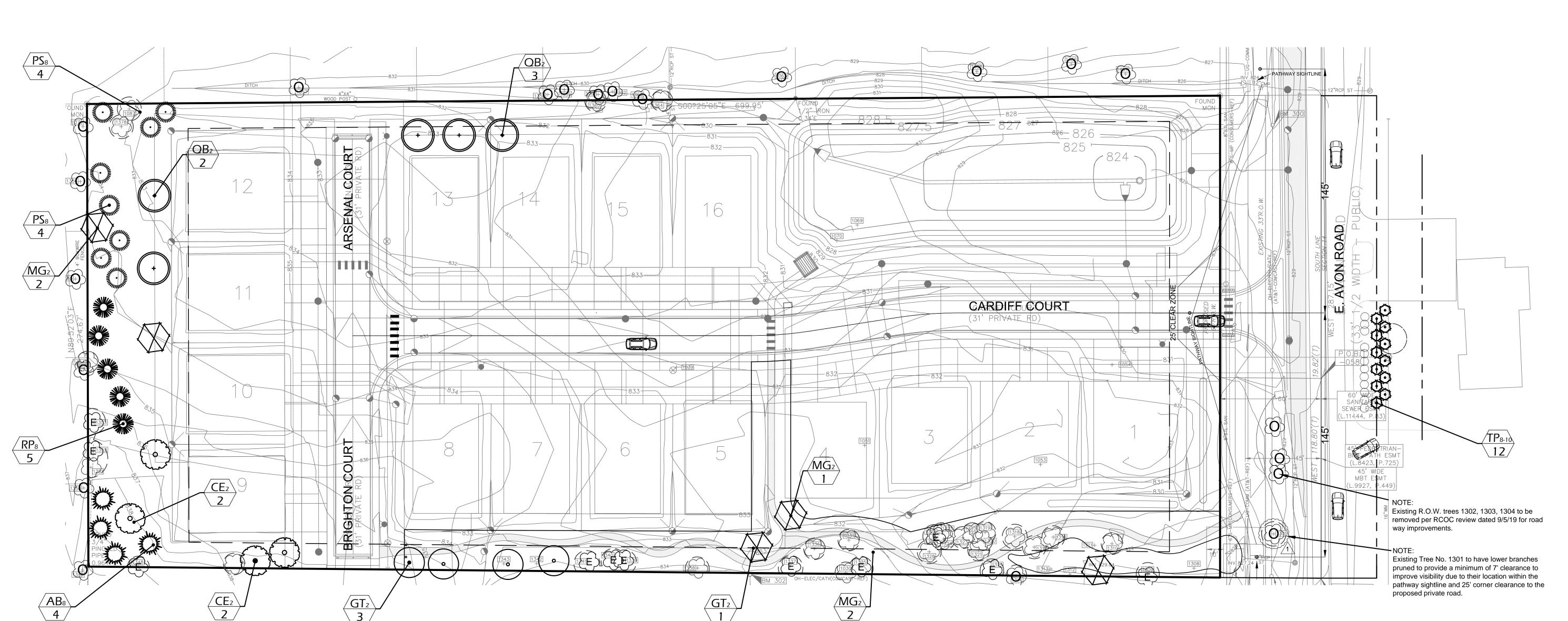


REPLACEMENT TREE CREDITS

Required Proposed On Plan Credits Provided

35 Trees at 1:1 35 Tree Credits 12 Trees at 2:1 24

47 Trees Proposed 59 Credits Provided Total Credits



ALL SIGNS MUST MEET THE REQUIREMENTS OF THE CITY AND BE APPROVED UNDER SEPARATE PERMITS ISSUED BY THE BUILDING DEPARTMENT

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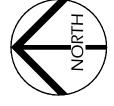
THE MATURE MAXIMUM HEIGHT FOR ALL GROUNDCOVERS AND PLANTINGS WITHIN THE 25' CLEARZONE IS 30" IN HEIGHT UNMAINTAINED.

PRIOR TO THE RELEASE OF THE PERFORMANCE BOND, THE CITY OF ROCHESTER HILLS MUST INSPECT ALL LANDSCAPE PLANTINGS.









REPLACEMENT TREE CREDIT PLAN

LANDSCAPE

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Job # N-01-50 N-01-50 LA Submittal.chwg



SCALE: 1"=30'-0"

Overhead Utility NOTE: Existing tree 1301, to have lower branches pruned to Specimen Tree provide a minimum of 7' clearance to improve visibility due to their location within the pathway sightline and 25' corner clearance of the proposed private road. **Proposed Shade** Proposed Ornamental Tree -Prune Existing Trees a minimum of 7' for pathway visibility -Proposed 8'-Pathway E. Avon Road

E. AVON ROAD LANDSCAPE FRONTAGE SECTION

PLANTING SETBACK REQUIREMENTS:

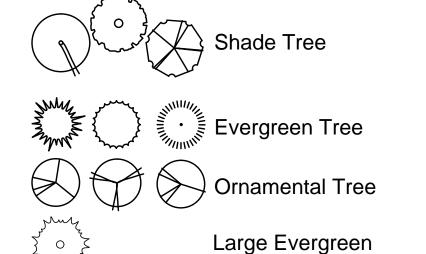
- 15' PLANTING SETBACK LINE FROM PROPOSED OVERHEAD UTILITY LINE AND EXISTING OVERHEAD UTILITY LINE. ALL EVERGREEN AND DECIDUOUS TREES MUST BE FIELD VERIFIED AND PLANTED A MINIMUM OF 15' FROM OVERHEAD UTILITY LINES.
- 10' PLANTING SETBACK LINE ORNAMENTAL TREES AND EVERGREEN TREES MUST BE PLANTED A MINIMUM OF 10' FROM A WALK OR PEDESTRIAN PATHWAY
- 5' PLANTING SETBACK FOR SHRUBS AND DECIDUOUS TREES FROM A PUBLIC WALK OR PEDESTRIAN PATHWAY. (5' SETBACK APPLIES TO DECIDUOUS TREES IF NO OVERHEAD UTILITIES EXIST)

ALL SIGNS MUST MEET THE REQUIREMENTS OF THE CITY AND BE APPROVED UNDER SEPARATE PERMITS ISSUED BY THE BUILDING DEPARTMENT

A CITY RIGHT-OF-WAY PERMIT IS REQUIRED FOR WORK WITHIN E. AVON ROAD.

CITY SHALL FURNISH AND PLACE ALL PERMANENT R.O.W. STREET SIGNS WITH MONIES PAID BY DEVELOPER.

TREE SYMBOL LEGEND:



 $\oplus \otimes \bigcirc$ Shrubs



LANDSCAPE

Cambridge Knoll, Inc.

14955 Technology Drive,

Shelby Twp., MI 48315

Phone: (586) 421-5729

Date/Revisions: Submitted for Preliminary Review

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Jim Polyzois

Date: 8/1/2019

25 CLEAR ZONE 8' Concrete Pathway 8' Concrete Pathway Refer to Sheets LA - 1.4 and LA 1.5 for Parkette plan and amenities. -Restore all Disturbed Z=UG-COMM (AT&T-REF)--UG-COMM (AT&T-REF) lawn areas Restore all Disturbed EXISTING 33'R.O.W. lawn areas Existing tree no. 1301 to have lower branches pruned to OH-ELEC/CATV (COMCAST-REF) provide a minimum of 7' clearance to improve visibility (AT&T-COMCAST-REI (O)O due to their location within the pathway sightline and 25 corner clearance of the proposed private road. Existing R.O.W. trees no 1302, 1303, 1304 to be removed per RCOC review dated 9/5/19 for road way improve EAST 1065.88' SOLID WHITE STRIPE SOUTH LINE 145' 145' DOUBLE SOILD YELLOW STRIPE DOUBLE SOILD YELLOW STRIPE E. AVON ROAD SOLID WHITE STRIPE SOLID WHITE STRIPE 829____ NOTE: 12"RCP ST------Responsibility of Developer Existing 33' R.O.W. 1. Installation to occur prior to land improvement activity. 2. Miss Dig must be notified to verify existing utility leads. Spacing may be modified to prevent damage to underground utilities. 5'-3. Existing deciduous tree to be removed 4. Planting to be within a 5' x 72' area as directed by city engineering. Plant material to be twelve (12) - green giant arborvitae of 8'-10' height. <u>Future 60' R.O.W.</u> Disturbed lawn area will be graded and seeded. Landscape contractor will be responsible for the planting and will provide initial watering and installation. 8. Landscape contractor will provide the homeowner with a schedule for watering/fertilizing/winterizing to

180 E. Avon

30645 Woodgate Drive Southfield, MI 48076 P: 248.224.5933 nunezdesigninc@gmail.com

N-01-50 LA Submittal.dwg



SCALE: 1"=20'-0"

E. AVON ROAD PLAN - SIGHTLINES, CLEAR ZONE AND PLANTING SETBACKS

9. Replacement trees must be staked, fertilized, and mulched and shall be guaranteed by the tree removal

following exceptions from the homeowner: failure to irrigate, neglect, intentional alternations, improper

Homeowner shall be responsible for irrigation system modifications prior to installation and maintenance of

10. Developer will honor a 1 year warranty. This warranty becomes void within that time period under the

Homeowner will be responsible for proper watering and care for plant material on their property

• This replacement guarantee will be provided if the homeowner has properly watered, fertilized, and

permit holder to exhibit a normal growth cycle for one year following planting.

NO LARGE SHRUBS OR TREES TO BE PLANTED WITHIN THE

THE MATURE MAXIMUM HEIGHT FOR ALL GROUNDCOVERS

AND PLANTINGS WITHIN THE 25' CLEAR ZONE IS 30" IN

VISIBILITY SIGHTLINES FOR THE PEDESTRIAN PATHWAY,

PUBLIC WALK OR WITHIN THE VISIBILITY SIGHTLINE FOR

maintain the plants.

PLANTING AND GUARANTEE:

the same going forward.

maintenance and road salt impact.

Responsibility of Homeowner of 180 E. Avon Road

maintained the plants during this year.

VEHICULAR TRAFFIC.

HEIGHT UNMAINTAINED.

MICHIGAN WILDFLOWER FARM **Detention Basin Mix** 40% Forbs and 60% Grass/Sedge/Rush Seeding Rate: 3 oz./1000 s.f. or 6 lbs./acre \$16.50/oz. or \$264/lb.

Scirpus spp.

Total Grasses

Sparganium eurycarpum

% by wt. Scientific name 3.00 Anemone canadensis 5.00 Angelica atropurpurea 4.00 Asclepias incarnata Swamp Milkweed Eupatorium maculatum 4.00 Eupatorium perfoliatum Helenium autumnale Sneezeweed 4.00 3.00 Iris virginica 1.00 Great Blue Lobelia Lobelia siphilitica 1.00 Rudbeckia fulgida Sweet Black-eyed Susan Solidago graminifolia Grassleaved Goldenrod 1.00 Solidago patula Swamp Goldenrod 1.00 Symphyotrichum puniceum Swamp Aster 3.00 Verbena hastata Blue Vervain 3.00 3.00 Ironweed Vernonia missurica 40.00 Total Forbs GRASSES 8.00 Carex spp. Carex species Elymus virginicus Virginia Wild Rye 40.00 10.00

Scirpus species

Common Bur Reed

2.00

MICHIGAN WILDFLOWER FARM **WOODLAND EDGE MIX** 35% Forbs and 65% Grasses Seeding Rate: 5 oz./1000 sf or 10 lbs./acre \$14.50/oz. or \$232/lb.

Elymus hystrix

Total Grasses

Koeleria cristata

Schizachyrium scoparius

Scientific name	Common Name	% by
Achillea millefolium	Yarrow	1.0
Allium cernuum	Nodding Wild Onion	3.0
Aquilegia canadensis	Wild Columbine	2.0
Asclepias syriaca	Common Milkweed	2.0
Asclepias tuberosa	Butterfly Weed	2.0
Desmodium canadense	Showy Tick-Trefoil	2.0
Eupatorium rugosum	Snakeroot	3.0
Monarda fistulosa	Wild Bergamot	3.0
Penstemon digitalis	Foxglove Beard-tongue	3.0
Penstemon hirsutus	Hairy Beard-tongue	1.0
Rudbeckia hirta	Black-eyed Susan	4.0
Rudbeckia triloba	Three-lobed Coneflower	2.0
Solidago rigida	Still Goldenrod	2.0
Symphyotrichum novae-angliae	New England Aster	1.0
Symphyotrichum oolentangiensis	Prairie Heart-leaved Aster	1.0
Thalictrum dioicum	Early Meadow Rue	1.0
Thalictrum dasycarpum	Purple Meadow Rue	2.0
Total Forbs		35.
Grasses		
Elymus canadensis	Canada Wild Rye	30.

Bottlebrush Grass

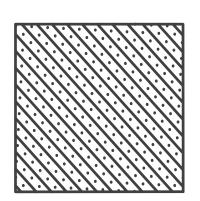
June Grass

Little Bluestem

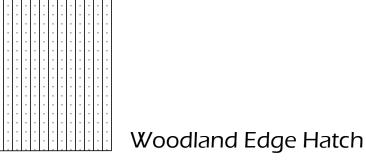
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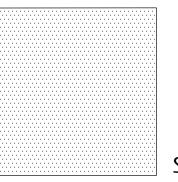
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Detention Basin & Raingarden Hatch





Seeded Area Hatch



LANDSCAPE

CAMBRIDGE KNOLL

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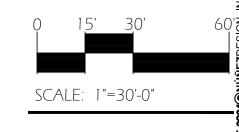
8/26/2024 Review Comments Submittal 10/28/2024 Review Comments Submittal

30645 Woodgate Drive Southfield, MI 48076 P: 248.224.5933 nunezdesigninc@gmail.com

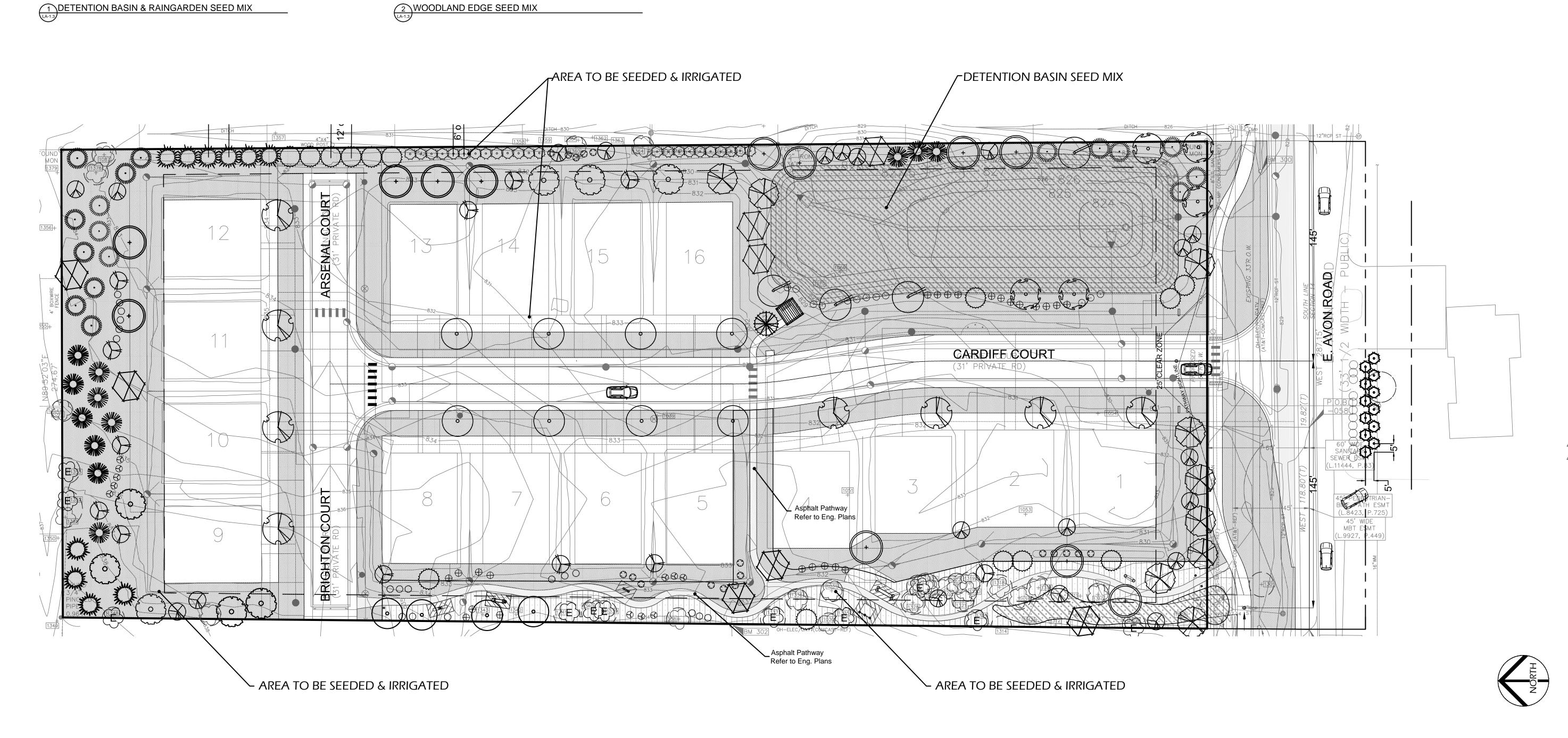
<u>Job # N-01-50</u> **N-01-50 LA Submittal.dwg**

LA-1.3









1. KNEE LIFT STATION

8. MAILBOX

10. BENCH

2. SIT-UP STATION

9. BIRD HOUSES

3. BALANCE PLANK STATION

11. HOLIDAY TREE

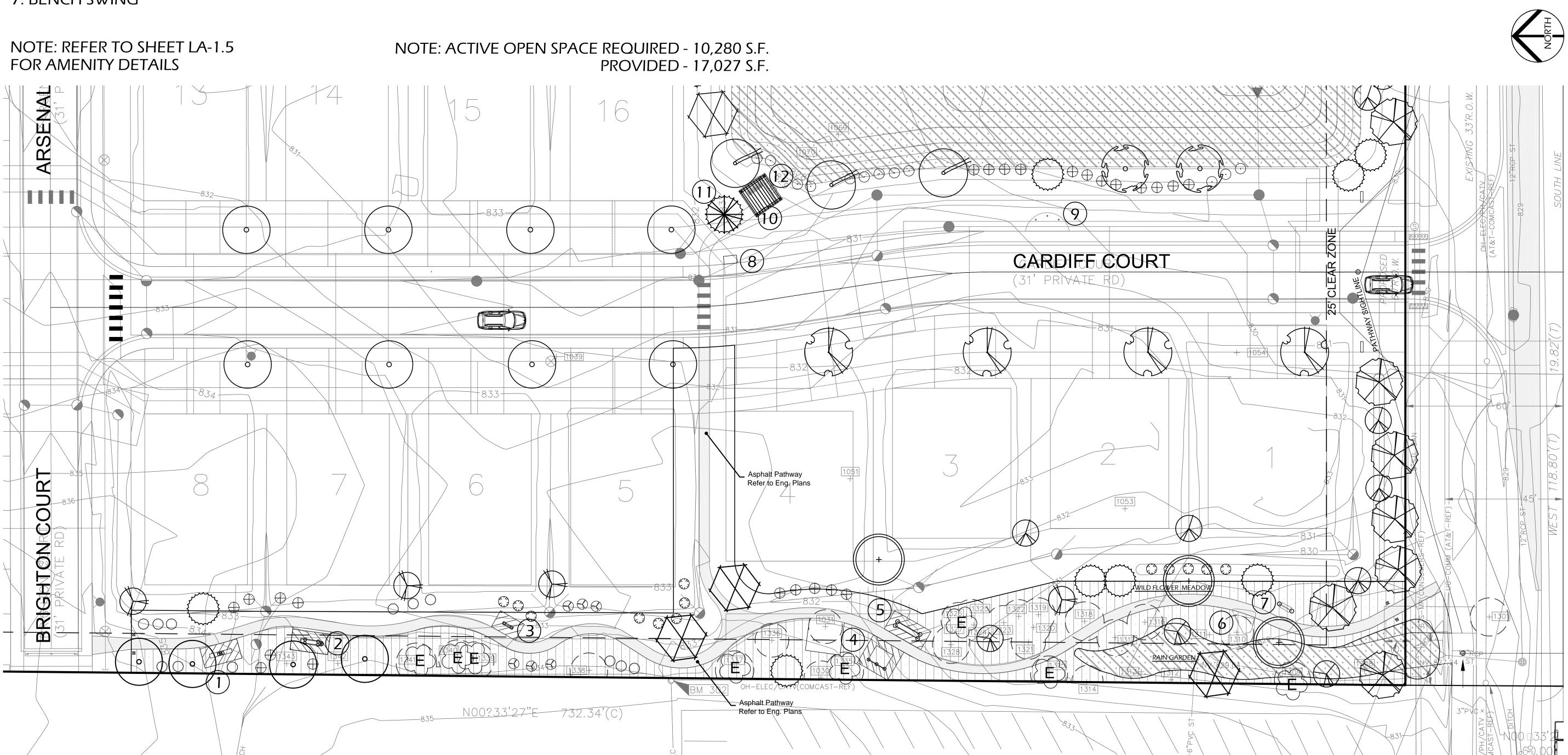
5. PARALLEL BAR STATION

4. PUSH-UP STATION

12. PERGOLA

6. BAT BOX

7. BENCH SWING





Cambridge Knoll, Inc. Jim Polyzois 14955 Technology Drive, g Shelby Twp., MI 48315 Phone: (586) 421-5729

Date: 8/1/2019 Date: 8/1/2019

Date/Revisions: Submitted for Preliminary Review
8/2/2019 Submitted for Preliminary Review
7/8/2020 PC Submittal - Revision
10/2/2020 PC Final Submittal
12/7/2020 Final CC Approval 6/3/2024 Preliminary & Final Submittal 8/26/2024 Review Comments Submittal

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<u>Job # N-01-50</u> **N-01-50 LA Submittal.dwg**



NOT TO SCALE

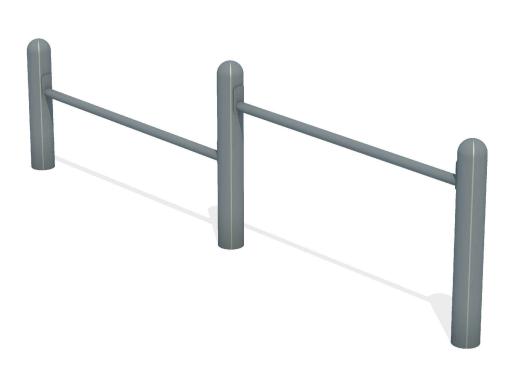






3 BALANCE PLANK STATION





FLORENCE ECORPORATION

FRONT ELEVATION

MODEL 1570-16

SIDE ELEVATION

NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

2. DO NOT SCALE DRAWING.

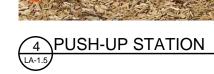
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.

4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 709-078

VITAL™ 1570 CLUSTER BOX UNIT







NÚÑEZ DESIGN

Cambridge Knoll, Inc.

Jim Polyzois 14955 Technology Drive, 5

Shelby Twp., MI 48315 Phone: (586) 421-5729

Date: 8/1/2019 Date/Revisions: Submitted for Preliminary Review 8/2/2019 Submitted for Preliminary Review
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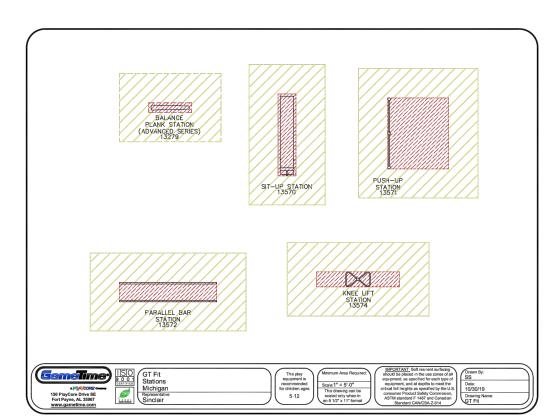
6 BAT BOX









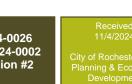


REVISION DATE 24/03/2017



FLORENCE CORPORATION 5935 CORPORATE DRIVE MANHATTAN, KS 66503 TOLL FREE: 1-800-275-1747 PHONE: (785) 323-4400 FAX: (800) 275-5081 www.florencemailboxes.com













5 PARALLEL BAR STATION









GENERAL NOTES

CITY NOTES

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

STANDARDIZED PLANT NAMES ESTABLISHED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE, OR OTHER SOURCE ACCEPTED BY THE CITY.

2. ALL PLANT MATERIAL SHALL BE TRUE TO NAME IN CONFORMANCE TO THE CURRENT EDITION OF

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 DISEASE AND INSECT ATTACK.

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

5. 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

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

EROSION. SOD OR SEED SHALL BE CLEAN AND FREE OF WEEDS AND NOXIOUS PESTS OR DISEASE.

8. LIVE GROUNDCOVERS SUCH AS MYRTLE, 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 DEVIATIONS 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. DECIDUOUS AND ALL SHRUBS MAY NOT BE PLANTED WITHIN 5 FEET, AND EVERGREEN TREES MAY NOT BE PLANTED WITHIN TEN (10) FEET OF ANY CURB OR PUBLIC WALKWAY.

11. TREES AND SHRUBS MAY NOT BE PLANTED WITHIN 10 FEET OF A FIRE HYDRANT.

HEDGEROWS ARE TO BE MULCHED AS ONE CONTINUOUS STRIP.

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

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.

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 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

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 THRIVING CONDITION. UPON FINAL ACCEPTANCE BY LANDSCAPE ARCHITECT AND/OR PROJECT REPRESENTATIVE AND AS DETERMINED BY THE CITY. THE OWNER SHALL ASSUME ALL MAINTENANCE RESPONSIBILITIES.

5. THE CONTRACTOR SHALL GUARANTEE ALL LANDSCAPING FOR A 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, WITHOUT COST TO THE OWNER.

6. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON LANDSCAPE PLAN PRIOR TO PRICING THE WORK.

LANDSCAPING NOTES

1. PRIOR TO THE RELEASE OF THE PERFORMANCE BOND, THE CITY OF ROCHESTER HILLS MUST INSPECT ALL LANDSCAPE PLANTING INCLUDING BUT NOT LIMITED TO EXISTING TREES, REPLACEMENT TREES, BUFFER PLANTINGS, AND PARKING LOT ISLANDS. THE RIGHT-OF-WAY WILL BE INSPECTED BY THE FORESTRY DIVISION TO IDENTIFY ANY PLANTINGS NEW 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.

2. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF THE PUBLIC R.O.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. 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 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 TRIANGULAR AREA FORMED AT THE INTERSECTION OF ANY DRIVEWAY WITH A PUBLIC WALKWAY AT A DISTANCE ALONG EACH LINE OF 15' FROM THEIR POINT OF 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 DRIP LINE OF EXISTING TREES.

8. NO PLANT SUBSTITUTIONS OR CHANGES OF LOCATION OR PLANT TYPE SHALL BE MADE WITHOUT THE APPROVAL OF THE LANDSCAPE ARCHITECT AND THE CITY'S PLANNING DEPARTMENT. ALL REQUESTS WILL BE SUBMITTED TO THE LANDSCAPE ARCHITECT IN WRITING. THE REQUEST WILL INCLUDE THE REASON FOR THE REQUESTED CHANGE ALONG WITH THE PROPOSED SUBSTITUTION AND HOW IT MEETS THE ORIGINAL DESIGN INTENT, SIZE, COLOR, ETC. THE LANDSCAPE ARCHITECT WILL EITHER MAKE RECOMMENDATIONS, APPROVE OR REJECT REQUESTS. IF THE SUBSTITUTION IS NEEDED AND APPROVED, THE LANDSCAPE ARCHITECT WILL FORWARD THE REQUEST AND HIS APPROVAL TO THE CITY FOR THEIR APPROVAL FAILURE TO DO SO WILL RESULT IN PLANTS BEING REJECTED AND REPLACED AT CONTRACTOR'S EXPENSE.

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

10. THESE REQUIREMENTS ARE INCORPORATED INTO THE PLAN.

CITY OF ROCHESTER HILLS NOTES

1. ALL LANDSCAPE AREAS MUST BE IRRIGATED. WATERING WILL ONLY OCCUR BETWEEN THE HOURS OF 12 AM AND 5 AM. IRRIGATION PLAN TO BE PROVIDED AT FINAL SUBMITTAL.

2. IRRIGATION OVERSPRAY SHALL NOT BROADCAST ONTO THE CITY PATHWAY.

3. SIGNS SHALL MEET THE REQUIREMENTS OF CHAPTER 134 OF THE CITY'S CODE OF ORDINANCES.

4. PRIOR TO THE RELEASE OF THE PERFORMANCE BOND, THE CITY OF ROCHESTER HILLS MUST INSPECT ALL LANDSCAPE DRAWINGS.

TREE PROTECTION NOTES

1. THE TREE PROTECTION FENCING (TPF) SHALL BE ERECTED PER THE PLANS APPROVED BY THE CITY OF ROCHESTER HILLS PLANNING DEPARTMENT. THE 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 FIRST.

2. UPON COMPLETION OF GRADING AND THE INSTALLATION OF THE INFRASTRUCTURE A SECOND INSPECTION OF THE TPF 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 TPF 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 THE CITY PLANNING DEPARTMENT AT 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 THIS INSPECTION.

5. 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.

6. 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

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

8. ALL UTILITY SERVICE REQUEST MUST INCLUDED NOTIFICATION TO THE INSTALLER THAT PROTECTED TREES MUST BE AVOIDED. ALL TRENCHING SHALL OCCUR OUTSIDE THE TPF.

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. THE TPF FENCING SHALL REMAIN UPRIGHT AND SECURELY IN PLACE FOR THE REQUIRED TIME AS SPECIFIED

CITY OF ROCHESTER HILLS MAINTENANCE NOTES 138-12.109

1. LANDSCAPING SHALL BE KEPT IN A NEAT, ORDERLY AND HEALTHY GROWING CONDITION, FREE FROM DEBRIS AND REFUSE.

2. PRUNING SHALL BE MINIMAL AT TIME OF INSTALLATION, ONLY TO REMOVE DEAD OR DISEASED BRANCHES. SUBSEQUENT PRUNING SHALL ASSURE PROPER MATURATION OF PLANTS TO ACHIEVE THEIR APPROVED PURPOSE.

3. ALL DEAD, DAMAGED, OR DISEASED PLANT MATERIAL SHALL BE REMOVED IMMEDIATELY AND REPLACED WITHIN (6) SIX MONTHS AFTER IT DIES OR IN THE NEXT PLANTING SEASON, WHICH EVER COMES FIRST. THE PLANTING SEASON FOR THE DECIDUOUS PLANTS SHALL BE BETWEEN MARCH 1 AND JUNE 1. PLANT MATERIAL INSTALLED TO REPLACE DEAD OR DISEASED MATERIAL SHALL BE AS CLOSE AS PRACTICAL TO THE SIZE OF THE MATERIAL IT IS INTENDED TO REPLACE. THE CITY MAY NOTIFY PROPERTY OWNERS OF THE NEED TO REPLACE DEAD, DAMAGED, OR DISEASED MATERIAL.

4. THE APPROVED LANDSCAPE PLAN SHALL BE CONSIDERED A PERMANENT RECORD AND INTEGRAL PART OF THE SITE PLAN APPROVAL. UNLESS OTHERWISE APPROVED, ANY REVISIONS OR REMOVAL OF PLANT MATERIALS, OR NON-COMPLIANCE WITH THE MAINTENANCE REQUIREMENTS OF SECTION 138-12.109 WILL PLACE THE PARCEL IN NON-CONFORMITY WITH THE APPROVED LANDSCAPE PLAN AND BE A VIOLATION OF THE ORDINANCE.

5. IF PROTECTED TREES ARE DAMAGED, A FINE SHALL BE ISSUED ON AN INCH BY INCH BASIS AT A MONETARY RATE AS DEFINED BY THE FORESTRY DEPARTMENT

CITY OF ROCHESTER HILLS FORESTRY NOTES

1. PRIOR APPROVAL IS REQUIRED TO PLANT ANY TREE OR SHRUB ON THE PUBLIC RIGHT-OF-WAY. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF THE PUBLIC ROAD. 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.

2. NO TREES OR SHRUBS MAY BE PLANTED WITHIN THE TRIANGULAR AREA FORMED AT THE INTERSECTION OF ANY STREET RIGHT-OF-WAY LINES AT A DISTANCE ALONG EACH LINE OF 25' FROM THEIR POINT OF INTERSECTION. ALL TREES AND SHRUBS MUST BE AT LEAST '10 FROM ANY HYDRANT. SHADE AND EVERGREEN TREES MUST BE AT LEAST 15' AWAY FROM THE NEAREST OVERHEAD WIRE. TREES MUST BE PLANTED A MINIMUM OF 5' FROM AN UNDERGROUND UTILITY, UNLESS THE CITY'S LANDSCAPE ARCHITECT REQUIRES A GREATER DISTANCE.

3.PRIOR TO THE RELEASE OF THE PERFORMANCE BOND, THE CITY OF ROCHESTER HILLS FORESTRY DIVISION NEEDS TO INSPECT ALL TREES, EXISTING OR PLANTED, TO IDENTIFY ANY THAT POSE A HAZARD TO THE SAFE USE OF PUBLIC RIGHT-OF-WAY. FORESTRY MAY REQUIRE THE DEVELOPER TO REMOVE, AND POSSIBLY REPLACE, ANY SUCH TREES.

TREE PROTECTION FENCE NOTE:

ALL TREES ON ADJACENT PROPERTIES MUST BE PROTECTED. THE TREE PROTECTIVE FENCING MAY BE PLACED ALONG THE ACTUAL PROPERTY LINE IF THE BRANCHES OF THE TREES ON THE ADJACENT PROPERTIES DO NOT OVERHANG ONTO THE SITE BEING DEVELOPED. IF THE BRANCHES OVERHANG ONTO THE AREA OF THE SITE BEING DEVELOPED THE TREE PROTECTIVE FENCING MUST BE PLACED AT THE ACTUAL DRIP LINE OF THESE TREES. IT SHOULD ALSO BE NOTED THAT THE SILT FENCING MUST BE PLACED ON THE DEVELOPMENT SIDE OF THE TREE PROTECTIVE FENCING. THE SILT FENCING MAY NOT BE PLACED BETWEEN THE TREE BEING PRESERVED AND THE TREE PROTECTIVE FENCING. IF ANY REGULATED TREES ARE DAMAGED ON THE ADJACENT PROPERTIES THE DAMAGED TREES WILL BE EITHER REPLACED ON THE OWNERS PROPERTY ON AN INCH FOR INCH BASIS OR A FINE IN THE SUM \$122.00 PER CALIPER INCH WILL BE ISSUED AGAINST THE DEVELOPMENT. THIS FINE WILL BE DUE PRIOR THE BUILDING PERMITS BEING ISSUED. IF YOU HAVE ANY QUESTIONS OR NEED ADDITIONAL INFORMATION CALL THE CITY'S PLANNING DEPARTMENT 248-646-4660.

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 CONCERNS.

2. ALL PLANT MATERIAL TO BE PREMIUM GRADE NURSERY STOCK. PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES 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, MINERAL GROWTH. SOD BLEND SHALL CONSIST OF A MINIMUM OF THREE (3) IMPROVED VARIETIES 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

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

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 REJECT ANY PLANT MATERIAL NOT MEETING SPECIFICATIONS.

10. REMOVE ALL TREE STAKES AND GUY WIRES AFTER ONE WINTER.

11. USE GRADE "A" DOUBLE SHREDDED HARDWOOD BARK

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 MULCHED WITH A MINIMUM OF 4' WIDE BY 4" DEEP SHREDDED BARK FOR TRUNK PROTECTION. ONLY NATURAL-COLORED SHREDDED HARDWOOD BARK MULCH WILL BE ACCEPTED.

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 BEDS NEXT TO BUILDINGS SHALL BE EXCAVATED OF ALL BUILDING MATERIALS AND POOR SOILS TO A DEPTH OF 12"-18" AND BACK-FILLED WITH GOOD, MEDIUM 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.

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.

IF 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 CLAY) AND ADD 4"-6" OF TOPSOIL TO MEET EXISTING GRADES AFTER EARTH SETTLING.

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

MAINTENANCE NOTES

1. THE CLEAR ZONE SHALL BE MAINTAINED AT ALL INTERSECTIONS THAT INGRESS AND EGRESS 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.

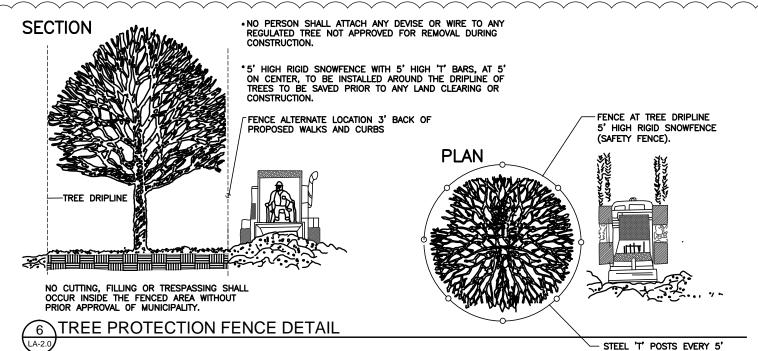
2. VERTICAL CLEARANCE OF AT LEAST EIGHTY (80) INCHES MUST BE PROVIDED ABOVE WALKS AT ALL TIMES. IT IS THE OWNERS RESPONSIBILITY TO MAINTAIN TREES AND OTHER OVERHANGING OBJECTS TO PROVIDE ADEQUATE HEADROOM TO COMPLY WITH ADA GUIDELINES.

PLANT WARRANTY

A. WARRANTEED PLANT MATERIAL TO REMAIN ALIVE AND BE IN HEALTHY, VIGOROUS CONDITION FOR A PERIOD OF 2 YEARS AFTER COMPLETION AND ACCEPTANCE OF ENTIRE PROJECT. INSPECTION OF PLANTS WILL BE MADE BY THE LANDSCAPE ARCHITECT OR CLIENT'S REPRESENTATIVE AT COMPLETION OF PLANTING.

B. REPLACE, IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, ALL PLANTS THAT ARE DEAD OR, AS DETERMINED BY THE LANDSCAPE ARCHITECT OR CLIENT'S REPRESENTATIVE, ARE IN AN UNHEALTHY OR UNSIGHTLY CONDITION, AND HAVE LOST THEIR NATURAL SHAPE DUE TO DEAD BRANCHES, OR OTHER CAUSES DUE TO THE CONTRACTOR'S NEGLIGENCE. THE COST OF SUCH REPLACEMENT(S) IS AT CONTRACTOR'S EXPENSE. WARRANTY ALL REPLACEMENT PLANTS FOR 1 YEAR AFTER INSTALLATION.

C. WARRANTY SHALL NOT INCLUDE DAMAGE OR LOSS OF TREES, PLANTS, OR GROUND COVERS CAUSE BY FIRES, FLOODS, FREEZING RAINS, LIGHTNING STORMS, OR WINDS OVER 75 MILES PER HOUR, WINTER KILL CAUSED BY EXTREME COLD AND SEVERE WINTER CONDITIONS NOT TYPICAL OF PLANTING AREA; ACTS OF VANDALISM OR NEGLIGENCE ON THE PART OF THE OWNER.



iństall posts 2' in ground.



WOOD STAKE-

12" MINIMUM —

2"x2"x8'

DEPTH VARIES

• CONTRACTOR TO VERIFY PERCOLATION OF PLANT PIT PRIOR TO INSTALLATION

• STAKE TREES UNDER 4" CALIPER • TREE BALL SHALL BEAR SAME RELATIONSHIP TO FINISH GRADE AS IT BORE ORIGINALLY

• USE ONLY ONE STAKE FOR TREES UNDER • SET STAKES VERTICALLY AND EVENLY STAKE TREES JUST BELOW FIRST BRANCH WITH 2"-3" WIDE BELT LIKE NYLON OR PLASTIC STRAPS (CONNECT FROM TREE TO STAKE OPPOSITE FROM FACH OTHER AND ALLOW FOR SOME "FLEXING"). DO NOT USE WIRE OR ROPE THROUGH A HOSE. REMOVE AFTER FIRST WINTER.

• PRUNE TO THIN AND SHAPE CANOPY

TREE WRAP FROM TOP DOWN REMOVE AFTER FIRST WINTER. - REMOVE BURLAP AND TWINE FROM TOP 1/3 OF BALL MOUND TO FORM SAUCER 6"FINISH GRADE

- SCARIFY TO 4" DEPTH AND RECOMPACT

LANDSCAPE

ARCHITECT

OF R1

Cambridge Knoll, Inc.

14955 Technology Drive,

Shelby Twp., MI 48315

Phone: (586) 421-5729

Date/Revisions: Submitted for Preliminary Review

8/2/2019 Submitted for Preliminary Review

/8/2020 PC Submittal - Revision

10/2/2020 PC Final Submittal

12/7/2020 Final CC Approval

2/11/2022 Final Landscape Plans

6/3/2024 Preliminary & Final Submittal

8/26/2024 Review Comments Submittal

30645 Woodgate Drive

nunezdesigninc@gmail.com

Southfield, MI 48076

P: 248.224.5933

Designed/Drawn: RN / JN

N-01-50 LA Submittal.dwg

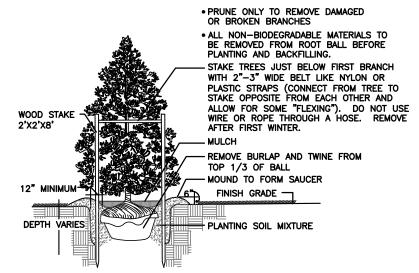
10/28/2024 Review Comments Submittal

Jim Polyzois

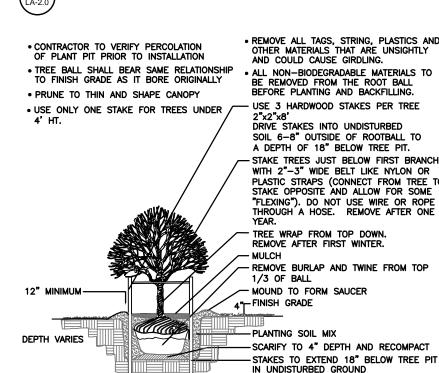
Date: 8/1/2019

PLANTING SOIL MIX

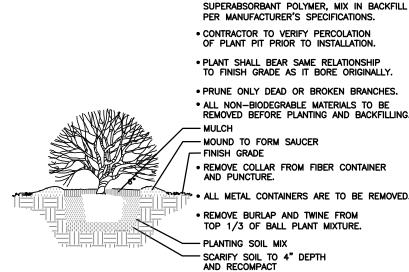
- STAKES TO EXTEND 18" BELOW TREE PIT IN UNDISTURBED GROUND DECIDUOUS TREE PLANTING DETAIL



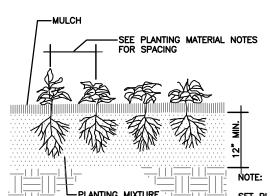




ORNAMENTAL TREE PLANTING DETAIL







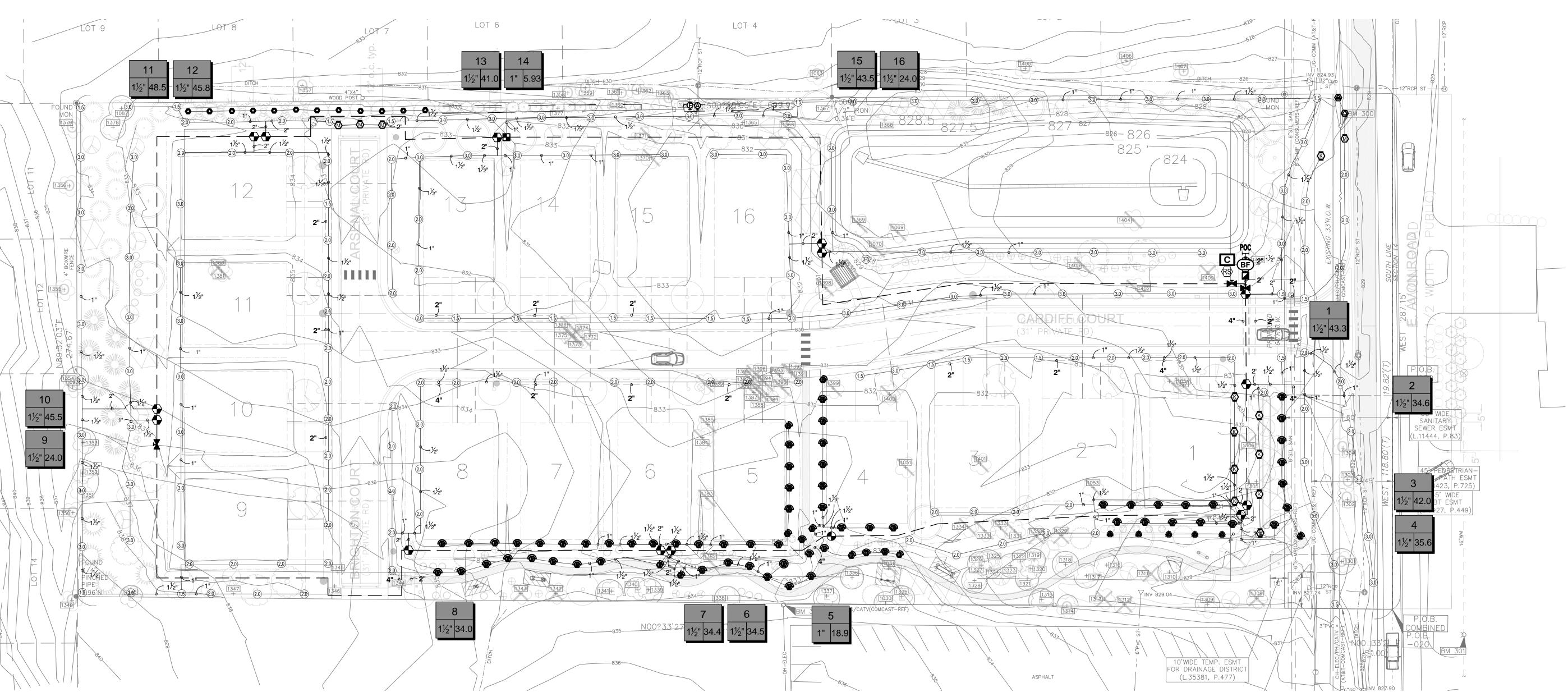
ANNUAL, PERENNIAL, GROUND COVER PLANTING DETAIL







LANDSCAPE PLANTING DETAILS & NOTES LA-2.0





— Project Services

1-800-347-4272 http://www.projectservices.siteone.com

650 Stephenson Highway Troy, Michigan 48083 Phone 248.588.2100 Fax 248.588.3528 www.Siteone.com 800.347.4272 Project Services Number: 232122

CAMBRIDGE KNOLL

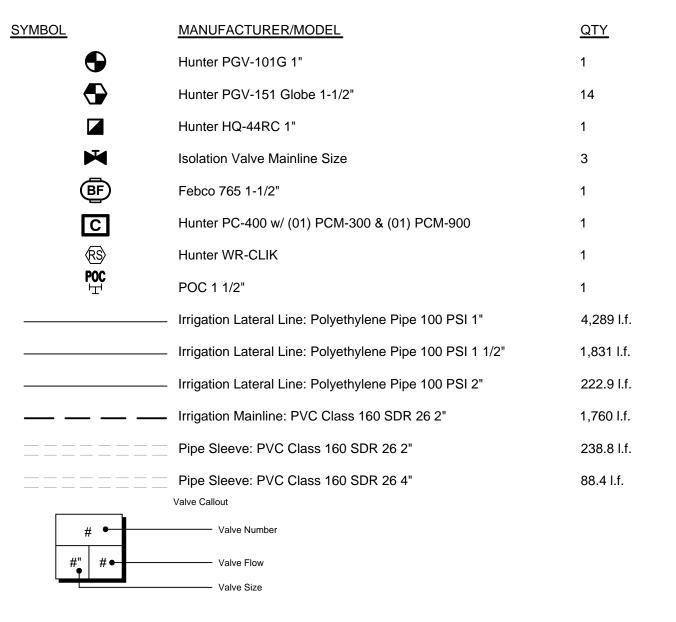
Design Date: SW Drawn By: C. GRAHAM Checked By:

IDDICATION SCHEDI II E

Netafim TLDL-06-12

SYMBOL		MANUFACTURER/MODEL	<u>QTY</u>
A A		Hunter PROS-04 5` strip spray	5
ES LC	S RCS CS SS	Hunter PROS-04 10` radius	4
Q	T H F	Hunter PROS-04 12` radius	20
Q T	н т й Г		
G I	TO TO F	Hunter PROS-04 15` radius	50
L <u>S</u>	RST SST	Hunter MP Strip PROS-04-PRS40-CV	2
<u>(M</u>) (D (O)	Hunter MP1000 PROS-04-PRS40-CV	4
<	K \G\ R	Hunter MP2000 PROS-04-PRS40-CV	9
SYMBOL		MANUFACTURER/MODEL	QTY
	1.5	Hunter PGP-04	24
	2.0	Hunter PGP-04	71
	3.0	Hunter PGP-04	81
SYMBOL		MANUFACTURER/MODEL	<u>QTY</u>
		Rain Bird XCZ-100-PRF 1"	1
	©	Flush Valve	1
	@	Drip Air Relief Valve	1
	•	Drip Ring-0.6 @12" OC, Approx. 20 LF per tree	12

350.3 l.f.



IRRIGATION SPECIFICATIONS

- 1. IRRIGATION SYSTEM DESIGN BASED ON 50 GPM AT 62 PSI.
- 2. IRRIGATION DESIGN IS FROM THE POINT OF CONNECTION(POC)ONLY. THE DESIGN IS BASED ON GALLONS PER MINUTE(GPM)AND POUNDS PER SQUARE INCH(PSI)FURNISHED BY OTHERS.
- 3. IRRIGATION CONTRACTOR IS TO VERIFY POINT OF CONNECTION IN THE FIELD. INSTALLER IS TO CONFIRM THE MINIMUM DISCHARGE REQUIREMENTS OF THE POINT OF CONNECTION AS INDICATED ON THE LEGEND PRIOR TO INSTALLATION.
- 4. THE PRESSURE REQUIREMENT AT THE POINT OF CONNECTION IS BASED ON NO MORE THAN 5 FEET OF ELEVATION CHANGE IN THE AREAS OF IRRIGATION.
- 5. ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ACCORDING TO LOCAL BUILDING, ELECTRICAL, AND PLUMBING CODES.
- 6. IRRIGATION CONTRACTOR WILL ARRANGE INSPECTIONS REQUIRED BY LOCAL AGENCIES AND ORDINANCES DURING THE COURSE OF CONSTRUCTION AS REQUIRED. ALL WIRING TO BE PER LOCAL CODE. BACKFLOW PREVENTION TO BE PER LOCAL CODE.
- 7. LOCATION OF IRRIGATION COMPONENTS SHOWN ON DRAWING IS APPROXIMATE. ACTUAL PLACEMENT MAY VARY SLIGHTLY AS REQUIRED TO ACHIEVE FULL, EVEN COVERAGE.
- 9. INSTALL IRRIGATION MAINS WITH A MINIMUM 18" OF COVER BASED ON FINISH GRADES. INSTALL IRRIGATION LATERALS WITH MINIMUM 12" OF COVER BASED ON FINISH GRADES.

8. ALL SPRINKLER HEADS SHALL BE INSTALLED PERPENDICULAR TO FINISH GRADES. EXCEPT AS OTHERWISE INDICATED.

- 10. PIPE LOCATIONS ARE DIAGRAMMATIC. VALVES AND MAINLINE SHOWN IN PAVED AREAS ARE FOR GRAPHIC CLARITY ONLY. 11. THE IRRIGATION CONTRACTOR SHALL COMPLY WITH PIPE SIZES AS INDICATED.
- 12. ALL WIRE SPLICES OR CONNECTIONS SHALL BE MADE WITH APPROVED WATERPROOF WIRE CONNECTIONS AND BE IN A VALVE OR SPLICE BOX.
- 13. ALL CONTROL WIRING DOWNSTREAM OF THE CONTROLLER IS TO BE 14 AWG, UL APPROVED DIRECT BURY.
- 14. THE DESIGN IS BASED ON THE SITE INFORMATION AND/OR DRAWING SUPPLIED WITH THE DESIGN CRITERIA BEING SET(AREA TO BE IRRIGATED, EQUIPMENT MANUFACTURER AND MODEL TO BE USED, WATER SOURCE INFORMATION, ELECTRICAL POWER AVAILABILITY, ETC...). SITEONE LANDSCAPE SUPPLY BEARS NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS IN DESIGN OR INSTALLATION THAT ARISE DUE TO INACCURACIES IN THE ABOVE REFERENCED INFORMATION SUPPLIED TO SITEONE LANDSCAPE SUPPLY LANDSCAPES IN RELATION TO THIS PROJECT, UNLESS OTHERWISE NOTED.



ROCHESTER HILLS, MI, 48309 10/06/20

NÚÑEZ DESIGN

Cambridge Knoll, Inc. Jim Polyzois 14955 Technology Drive, Shelby Twp., MI 48315 Phone: (586) 421-5729

Date: 8/1/2019 Date/Revisions: Submitted for Preliminary Review 2/11/2022 Final Landscape Plans

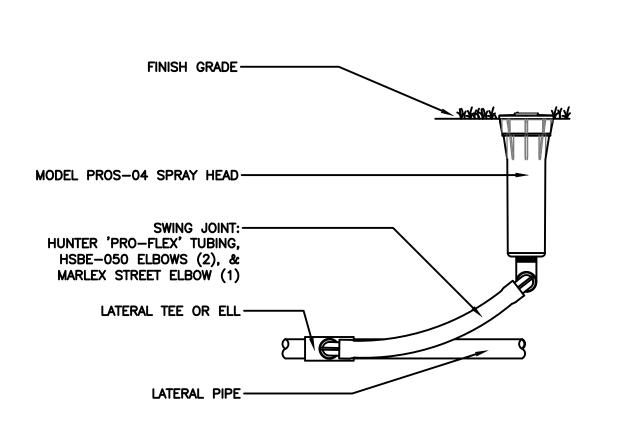
6/3/2024 Preliminary & Final Submittal 8/26/2024 Review Comments Submittal

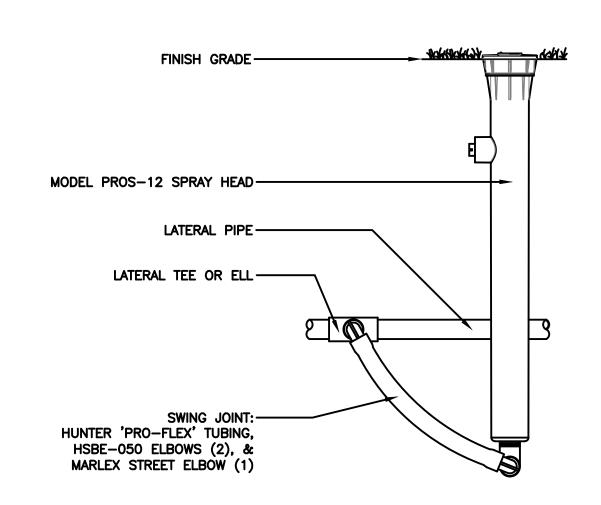
30645 Woodgate Drive Southfield, Michigan 48076 P: 248.224.5933 nunezdesigninc@gmail.com

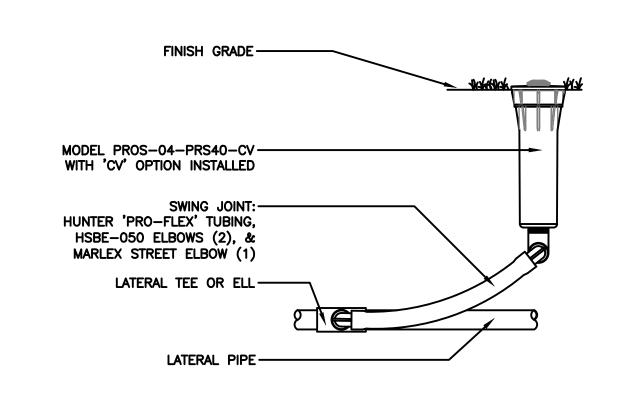
CITY FILE: #19-033 SECTION #:14

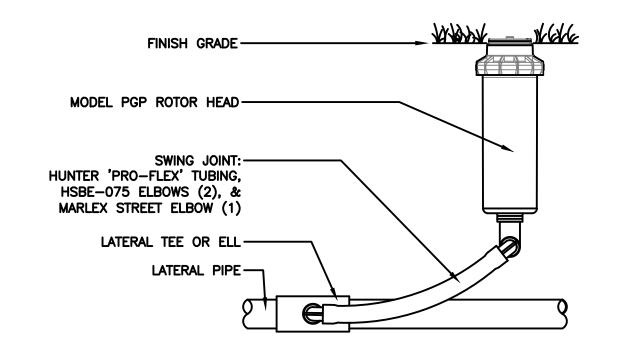
Job # N-01-50 Cambridge Knoll IR.dwg











OPTIONS:

□ R = FACTORY INSTALLED RECLAIMED RUBBER COVER ☐ CV = FACTORY INSTALLED DRAIN CHECK VALVE



PROS-12 SPRAY HEAD WITH PRO-FLEX TUBING

S1-SP-HUN-03

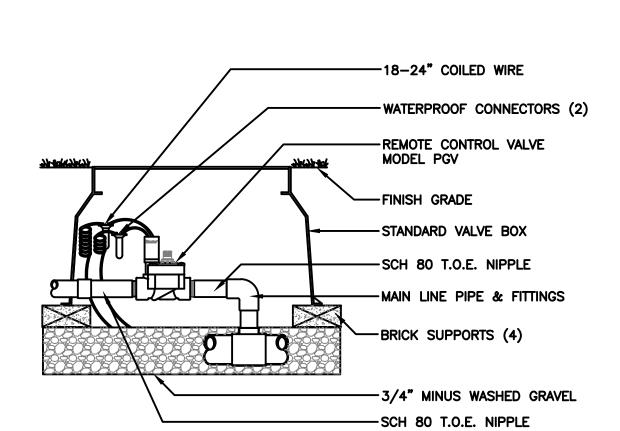
S1-VA-HUN-02

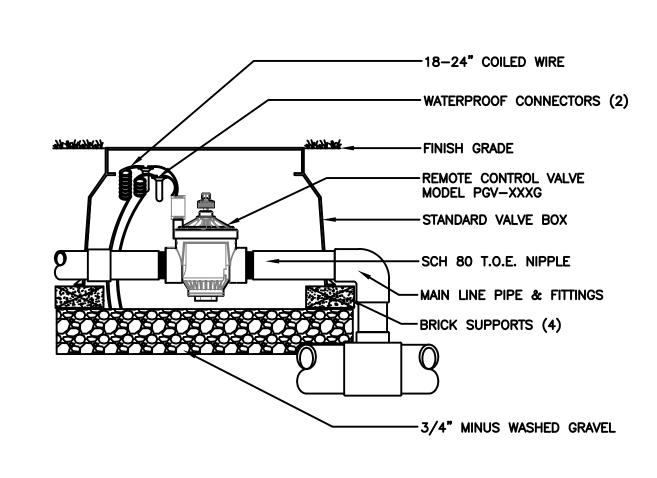
PROS-04-PRS40-CV MP ROTATOR SPRINKLER S1-R01-HUN-01

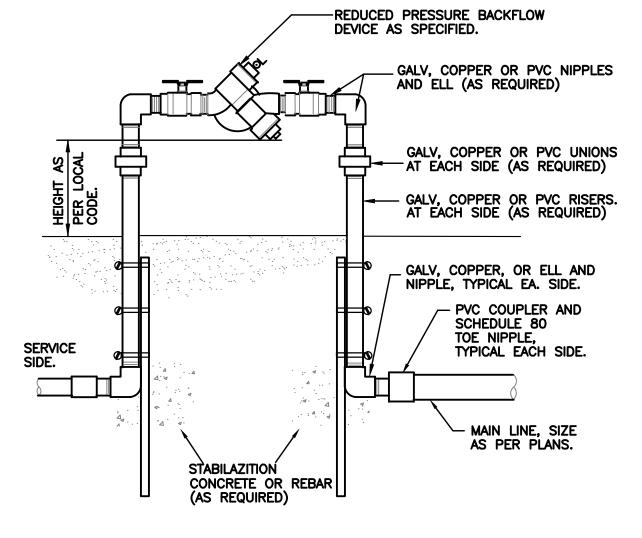
INSTALLATION MAY DIFFER PER LOCAL CODE

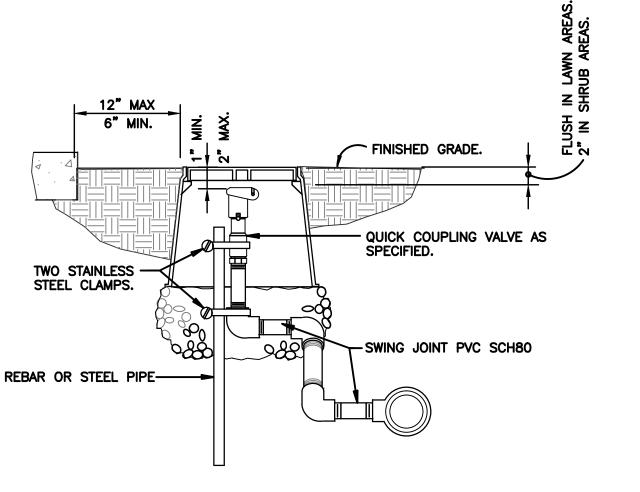
PGP ROTOR HEAD WITH PRO-FLEX TUBING

S1-RO-HUN-01











PGV GLOBE VALVE 151/201 S1-VA-HUN-01

REDUCED PRESSURE BACKFLOW DEVICE STANDARD S1-BA-01

QUICK COUPLING VALVE IN BOX

Date/Revisions: Submitted for Preliminary Review 8/2/2019 Submitted for Preliminary Review
7/8/2020 PC Submittal - Revision
10/2/2020 PC Final Submittal 12/7/2020 Final CC Approval 2/11/2022 Final Landscape Plans 6/3/2024 Preliminary & Final Submittal

CAMBRIDGE KNOLL

AVON RD.

Jim Polyzois

Date: 8/1/2019

\ 8/26/2024 Review Comments Submittal

30645 Woodgate Drive Southfield, Michigan 48076

nunezdesigninc@gmail.com

P: 248.224.5933

Designed/Drawn: RN / JN

Checked/Approved: JN / RN

Cambridge Knoll IR.dwg

Job # N-01-50

Cambridge Knoll, Inc.

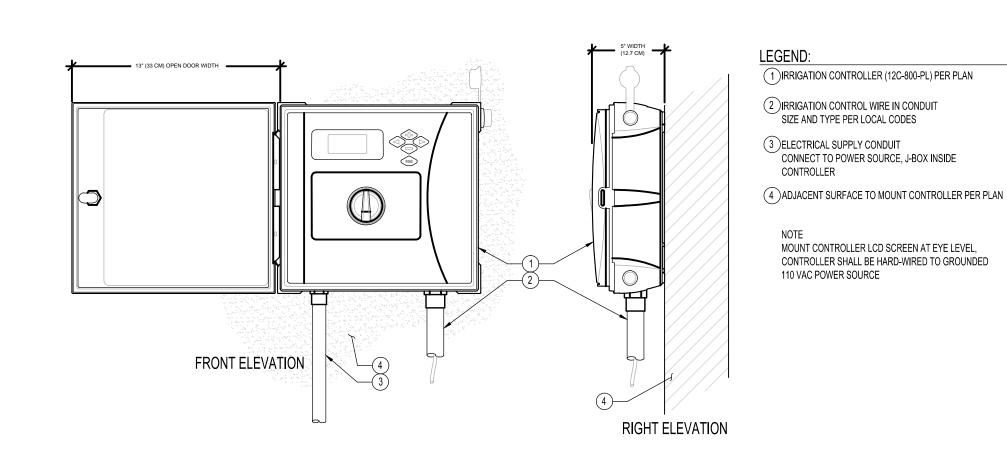
14955 Technology Drive,

Shelby Twp., MI 48315

Phone: (586) 421-5729

-HUNTER I-CORE CONTROLLER UP TO 800' AWAY -MODEL: WIRELESS SOLAR SYNC SENSOR, MOUNT UP TO 800' FROM RECEIVER -SUITABNLE POST, POLE, GUTTER MOUNT. MOUNT IN LOCATION THAT MAXIMIZES DIRECT SUNLIGHT, OPEN TO RAINFALL AND OUT OF SPRINKLER SPRAY PATTERN MODEL: SOLAR SYNC MODULE MOUNT LESS THAN 6' AWAY FROM CONTROLLER WIRELESS SOLAR SYNC RECEIVER MOUNTED ON THE WALL NEXT TO THE CONTROLLER CONDUIT FOR VALVE CONTROL WIRE AND SOLAR SYNC COMMUNICATION WIRE 4*)*}k**}f*** -CONTROLLER POWER SOURCE

S1-SP-HUN-01





S1-QU-01

Project Services

1-800-347-4272 http://www.projectservices.siteone.com

650 Stephenson Highway Troy, Michigan 48083 Phone 248.588.2100 Fax 248.588.3528 www.Siteone.com 800.347.4272 Project Services Number: 232122 10/24/19 Design Date: CH Drawn By:

C.GRAHAM Checked By:

WIRELESS SOLAR SYNC SYSTEM WITH I-CORE

S1-SE-HUN-07

HUNTER ICC2 CONTROLLER PLASTIC WALL MOUNT

CITY FILE: #19-033 SECTION #:14

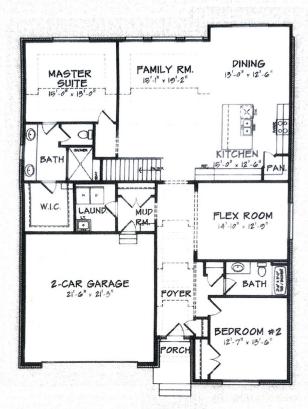


FRONT ELEVATION

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WE RESERVE THE PIGHT TO MAKE CHANGES IN DESIGN FEATURES AND OPTIONS WITHOUT NOTICE OR CHURCHTON, FLOOR PLAN DIMENSIONS AND SQUARE FOOTAGES.
ARE APPROPRIABATE. NOTIC PLANS WILL VARY PER ILEVATION.





FIRST FLOOR PLAN

SQUARE FOOTAGE FIRST FLOOR: 1,994 SQ. FT. 45'-0" X 57'-0" FOOTPRINT

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INE RESERVE THE RIGHT TO MAKE CHANGES IN DESIGN FEATURES AND OPTIONS WITHOUT NOTICE OF OBLIGATION FLOOR PLAN DIMENSIONS AND ROWARE FOOTAGES ARE APPROXIMATE. NOTE PLANS YELL VARY FER ELEVATION



Rochester Hills



FRONT ELEVATION



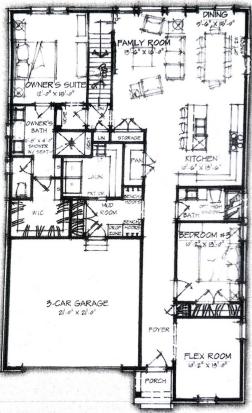
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WE RESERVE THE PICHT TO MAKE CHANGES IN CERON FEATURES AND OPTIONS WITHOUT NOTICE OR GRUSATION. FLOOR PLAN DIMENSIONS AND SQUARE FOOTAGES
ARE APPROXIMATE. NOTIC PLANS WILL VARY PER FLEXATION.



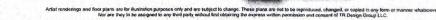
Rochester Hills



FIRST FLOOR PLAN

SQUARE FOOTAGE FIRE FLOOR: 1,922 SQ. FT.

39'-0" X 65'-0" FOOTPRINT



WE RESERVE THE RIGHT TO MAKE CHANGES IN DESIGN. FEATURES AND OPTIONS WITHOUT BOTICE OR OBLIGATION. FLOOR PLAN DIMENSIONS AND SQUARE FOOTAGE





Site plan.pdf Markup Summary

Assessing	Yes (1)		
Assessing Yes	Subject: Planning Department Author: C.McLeod Date: 11/15/2024 11:56:23 AM Status:	Assessing	Yes
BP (1)			
	Subject: Group Author: C.McLeod Date: 11/15/2024 11:59:53 AM Status:	BP	
City of Rocheste	er Hills Planning & Economic Development (1)		
	Subject: Group Author: macdonaldj Date: 11/4/2024 3:07:54 PM Status:	City of Rochester Hills Planni Development	ng & Economic
ensure planting	does not interfere with fire hydrant (1)		
	Subject: Fire Department Author: Ann Echols Date: 11/6/2024 9:30:03 AM Status:	ensure planting does not inte	rfere with fire hydrant
If access is not g	granted by homeowner of 180 E. Avon, the landscaping	shall not be a requirement of	the approval. (1)
	Subject: Planning Department Author: C.McLeod Date: 11/15/2024 12:10:51 PM Status:	If access is not granted by ho Avon, the landscaping shall n of the approval.	
Jason Rhoades	248-841-2435 RhoadesJa@RochesterHills.org (1)		
Jason Rhoades 248-841-2435 RhoadesJa@Rochesterf4lls.org	Subject: Building Department Author: J Rhoades Date: 11/11/2024 8:24:58 AM Status:	Jason Rhoades 248-841-2 RhoadesJa@RochesterHills.0	
LIP (1)			
	Subject: Group Author: C.McLeod Date: 11/15/2024 11:59:37 AM	LIP	

Subject: Planning Department

Author: C.McLeod

Date: 11/15/2024 12:17:23 PM

Status:

Maintenance. The owner, tenant, occupant or person responsible for any property which was the subject of an approved site plan shall maintain the property and the improvements thereon in accordance with the approved site plan or an approved amendment thereof. This responsibility shall include the duty to maintain in a condition substantially similar as approved, including the duty to replace, if necessary, all improvements such as, but not by way of limitation, all greenbelts, planting, walls, fences, paving, trash receptacles, handicapped parking areas, etc.

MR District requires a minimum of ten (10) acres. A modification is required to develop pursuant to the MR District. (1)

Subject: Planning Department

Author: C.McLeod

Date: 11/15/2024 12:18:30 PM

Status:

MR District requires a minimum of ten (10) acres. A modification is required to develop pursuant to the MR District.

Provide RCOC permit (1)

Subject: Traffic, Pathways, Sidewalks

Author: Keith

Date: 11/6/2024 8:23:42 AM

Status:

Provide RCOC permit

Received 11/4/2024 City of Rochester Hills Planning & Economic Development (22)



Subject: Group Author: C.McLeod

Date: 11/15/2024 12:13:58 PM

Status:

Received 11/4/2024

City of Rochester Hills Planning & Economic



Subject: Group Author: C.McLeod

Date: 11/15/2024 12:16:57 PM

Received 11/4/2024

City of Rochester Hills Planning & Economic

Development



Subject: Group Author: C.McLeod

Date: 11/15/2024 12:16:50 PM

Status:

Received 11/4/2024

City of Rochester Hills Planning & Economic

Development



Subject: Group Author: C.McLeod

Date: 11/15/2024 12:16:44 PM

Status:

Received 11/4/2024

City of Rochester Hills Planning & Economic

Development



Subject: Group Author: C.McLeod

Date: 11/15/2024 12:16:40 PM

Status:

Received 11/4/2024

City of Rochester Hills Planning & Economic

Development

ESTIMATION TO THE THE PROPERTY OF THE PROPERTY	Subject: Group Author: C.McLeod Date: 11/15/2024 12:16:07 PM Status:	Received 11/4/2024 City of Rochester Hills Planning & Economic Development
TY FILE #19-033, SECTION #14	Subject: Group Author: C.McLeod Date: 11/15/2024 12:16:02 PM Status:	Received 11/4/2024 City of Rochester Hills Planning & Economic Development
FIA 727 727 727 727 727 727 727 727 727 72	Subject: Group Author: C.McLeod Date: 11/15/2024 12:15:54 PM Status:	Received 11/4/2024 City of Rochester Hills Planning & Economic Development
762 712 712 712 712 712 712 712 712 712 71	Subject: Group Author: C.McLeod Date: 11/15/2024 12:15:49 PM Status:	Received 11/4/2024 City of Rochester Hills Planning & Economic Development
City REFERENCE NUMBER City File: #19-033	Subject: Group Author: C.McLeod Date: 11/15/2024 12:15:44 PM Status:	Received 11/4/2024 City of Rochester Hills Planning & Economic Development
Activities and the second seco	Subject: Group Author: C.McLeod Date: 11/15/2024 12:15:38 PM Status:	Received 11/4/2024 City of Rochester Hills Planning & Economic Development
R TO SHEET LA-2.0 FOR TREE FIL & NOTE	Subject: Group Author: C.McLeod Date: 11/15/2024 12:15:33 PM Status:	Received 11/4/2024 City of Rochester Hills Planning & Economic Development
en course foliage en un dese para de p el foliage de la fo	Subject: Group Author: C.McLeod Date: 11/15/2024 12:15:13 PM Status:	Received 11/4/2024 City of Rochester Hills Planning & Economic Development
REVISED TO REFLECT (SPONTED DISCRESSING) LANDSCAPE PLANTING I	Subject: Group Author: C.McLeod Date: 11/15/2024 12:15:07 PM Status:	Received 11/4/2024 City of Rochester Hills Planning & Economic Development
REPLACEMENT TREE CREDIT	Subject: Group Author: C.McLeod Date: 11/15/2024 12:14:59 PM Status:	Received 11/4/2024 City of Rochester Hills Planning & Economic Development

Subject: Group Received Author: C.McLeod 11/4/2024 Date: 11/15/2024 12:14:53 PM Status: ONE & PLANTING SETBACKS City of Rochester Hills Planning & Economic Development Subject: Group Received Author: C.McLeod 11/4/2024 Date: 11/15/2024 12:14:48 PM Status: City of Rochester Hills Planning & Economic Development Received Author: C.McLeod 11/4/2024 Date: 11/15/2024 12:14:42 PM Status: City of Rochester Hills Planning & Economic Development Subject: Group Received Author: C.McLeod 11/4/2024 Date: 11/15/2024 12:14:33 PM Status: City of Rochester Hills Planning & Economic Development Subject: Group Received Author: C.McLeod 11/4/2024 Date: 11/15/2024 12:14:22 PM LANTING DETAILS & NOTES LA Status: City of Rochester Hills Planning & Economic Development Subject: Group Received Author: C.McLeod 11/4/2024 Date: 11/15/2024 12:14:16 PM Status: City of Rochester Hills Planning & Economic Development Subject: Group Received Author: C.McLeod 11/4/2024 Date: 11/15/2024 12:14:10 PM Status: City of Rochester Hills Planning & Economic Development SECTION 138-6.507 - Modification of Standards The Planning Commission may modify the dimensional requirements of this Articl Subject: Planning Department SECTION 138-6.507 - Modification of Standards Author: C.McLeod The Planning Commission may modify the Date: 11/15/2024 12:18:08 PM dimensional requirements of this Article 6, Chapter Status: 5 if it finds that another standard would be more reasonable due to existing site or neighborhood conditions, or because the site cannot physically comply with one or more of the requirements listed herein. In making a determination that a

SP (1)

Subject: Group Author: C.McLeod

Date: 11/15/2024 11:59:33 AM

Status:

modification is warranted, the Planning Commission shall review the proposed

development against the standards for approving a conditional use listed in Section 138-2.302.

Subject to final acceptance of roadway and easement configuration by City DPS (1)



Subject: Planning Department

Author: C.McLeod

Date: 11/15/2024 12:17:53 PM

Status:

Subject to final acceptance of roadway and easement configuration by City DPS

The applicant will need to submit a Land Improvement Permit (LIP) application with engineer's estimate, fee and construction plans



Subject: Engineering Department

Author: Jason Boughton Date: 11/5/2024 9:10:38 AM

Status:

The applicant will need to submit a Land Improvement Permit (LIP) application with engineer's estimate, fee and construction plans to proceed with the construction plan review process.

Yes (1)

Yes

Subject: Building Department

Author: J Rhoades

Date: 11/11/2024 8:25:02 AM

Status:

Yes

(13)

Subject: Engineering Department

Author: Jason Boughton Date: 11/5/2024 9:13:03 AM

Status:

Subject: Traffic Author: Keith

Date: 11/6/2024 8:23:52 AM

Status:

Subject: Fire Department

Author: Ann Echols

Date: 11/6/2024 9:30:46 AM

Status:

Subject: Natural Resouces **Author:** Matt Einheuser **Date:** 11/8/2024 2:28:06 PM

Status:

.....

Subject: Jenny McGuckin - YES **Author**: Seth Bucholz

Date: 11/12/2024 8:39:25 AM

Status:

.....

Subject: Group Author: C.McLeod

Date: 11/15/2024 11:59:11 AM



Subject: Group Author: C.McLeod

Date: 11/15/2024 11:59:45 AM

Status:

Subject: Planning Department

Author: C.McLeod

Date: 11/15/2024 12:23:56 PM

Status:



Subject: Highlight Author: Ann Echols

Date: 11/6/2024 9:28:10 AM

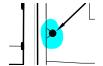
Status:



Subject: Highlight Author: Ann Echols

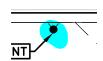
Date: 11/6/2024 9:28:12 AM

Status:



Subject: Highlight Author: Ann Echols Date: 11/6/2024 9:28:14 AM

Status:



Subject: Highlight **Author:** Ann Echols

Date: 11/6/2024 9:28:16 AM

Status:



Subject: Highlight Author: Ann Echols

Date: 11/6/2024 9:28:20 AM

Site plan.pdf Markup Summary

Assessing	Yes (1)		
Assessing Yes	Subject: Planning Department Author: C.McLeod Date: 11/15/2024 11:56:23 AM Status:	Assessing	Yes
BP (1)			
	Subject: Group Author: C.McLeod Date: 11/15/2024 11:59:53 AM Status:	BP	
City of Rocheste	er Hills Planning & Economic Development (1)		
	Subject: Group Author: macdonaldj Date: 11/4/2024 3:07:54 PM Status:	City of Rochester Hills Planni Development	ng & Economic
ensure planting	does not interfere with fire hydrant (1)		
	Subject: Fire Department Author: Ann Echols Date: 11/6/2024 9:30:03 AM Status:	ensure planting does not inte	rfere with fire hydrant
If access is not g	granted by homeowner of 180 E. Avon, the landscaping	shall not be a requirement of	the approval. (1)
	Subject: Planning Department Author: C.McLeod Date: 11/15/2024 12:10:51 PM Status:	If access is not granted by ho Avon, the landscaping shall n of the approval.	
Jason Rhoades	248-841-2435 RhoadesJa@RochesterHills.org (1)		
Jason Rhoades 248-841-2435 RhoadesJa@Rochesterf4lls.org	Subject: Building Department Author: J Rhoades Date: 11/11/2024 8:24:58 AM Status:	Jason Rhoades 248-841-2 RhoadesJa@RochesterHills.0	
LIP (1)			
	Subject: Group Author: C.McLeod Date: 11/15/2024 11:59:37 AM	LIP	

Subject: Planning Department

Author: C.McLeod

Date: 11/15/2024 12:17:23 PM

Status:

Maintenance. The owner, tenant, occupant or person responsible for any property which was the subject of an approved site plan shall maintain the property and the improvements thereon in accordance with the approved site plan or an approved amendment thereof. This responsibility shall include the duty to maintain in a condition substantially similar as approved, including the duty to replace, if necessary, all improvements such as, but not by way of limitation, all greenbelts, planting, walls, fences, paving, trash receptacles, handicapped parking areas, etc.

MR District requires a minimum of ten (10) acres. A modification is required to develop pursuant to the MR District. (1)

Subject: Planning Department

Author: C.McLeod

Date: 11/15/2024 12:18:30 PM

Status:

MR District requires a minimum of ten (10) acres. A modification is required to develop pursuant to the MR District.

Provide RCOC permit (1)

Subject: Traffic, Pathways, Sidewalks

Author: Keith

Date: 11/6/2024 8:23:42 AM

Status:

Provide RCOC permit

Received 11/4/2024 City of Rochester Hills Planning & Economic Development (22)



Subject: Group Author: C.McLeod

Date: 11/15/2024 12:13:58 PM

Status:

Received 11/4/2024

City of Rochester Hills Planning & Economic



Subject: Group Author: C.McLeod

Date: 11/15/2024 12:16:57 PM

Received 11/4/2024

City of Rochester Hills Planning & Economic

Development



Subject: Group Author: C.McLeod

Date: 11/15/2024 12:16:50 PM

Status:

Received 11/4/2024

City of Rochester Hills Planning & Economic

Development



Subject: Group Author: C.McLeod

Date: 11/15/2024 12:16:44 PM

Status:

Received 11/4/2024

City of Rochester Hills Planning & Economic

Development



Subject: Group Author: C.McLeod

Date: 11/15/2024 12:16:40 PM

Status:

Received 11/4/2024

City of Rochester Hills Planning & Economic

Development

ESTIMATION TO THE THE PROPERTY OF THE PROPERTY	Subject: Group Author: C.McLeod Date: 11/15/2024 12:16:07 PM Status:	Received 11/4/2024 City of Rochester Hills Planning & Economic Development
TY FILE #19-033, SECTION #14	Subject: Group Author: C.McLeod Date: 11/15/2024 12:16:02 PM Status:	Received 11/4/2024 City of Rochester Hills Planning & Economic Development
FIA 727 727 727 727 727 727 727 727 727 72	Subject: Group Author: C.McLeod Date: 11/15/2024 12:15:54 PM Status:	Received 11/4/2024 City of Rochester Hills Planning & Economic Development
762 712 712 712 712 712 712 712 712 712 71	Subject: Group Author: C.McLeod Date: 11/15/2024 12:15:49 PM Status:	Received 11/4/2024 City of Rochester Hills Planning & Economic Development
City REFERENCE NUMBER City File: #19-033	Subject: Group Author: C.McLeod Date: 11/15/2024 12:15:44 PM Status:	Received 11/4/2024 City of Rochester Hills Planning & Economic Development
Activities and the second seco	Subject: Group Author: C.McLeod Date: 11/15/2024 12:15:38 PM Status:	Received 11/4/2024 City of Rochester Hills Planning & Economic Development
R TO SHEET LA-2.0 FOR TREE FIL & NOTE	Subject: Group Author: C.McLeod Date: 11/15/2024 12:15:33 PM Status:	Received 11/4/2024 City of Rochester Hills Planning & Economic Development
en course foliage en un dese para de p el foliage de la fo	Subject: Group Author: C.McLeod Date: 11/15/2024 12:15:13 PM Status:	Received 11/4/2024 City of Rochester Hills Planning & Economic Development
REVISED TO REFLECT (SPONTED DISCRESSING) LANDSCAPE PLANTING I	Subject: Group Author: C.McLeod Date: 11/15/2024 12:15:07 PM Status:	Received 11/4/2024 City of Rochester Hills Planning & Economic Development
REPLACEMENT TREE CREDIT	Subject: Group Author: C.McLeod Date: 11/15/2024 12:14:59 PM Status:	Received 11/4/2024 City of Rochester Hills Planning & Economic Development

Subject: Group Received Author: C.McLeod 11/4/2024 Date: 11/15/2024 12:14:53 PM Status: ONE & PLANTING SETBACKS City of Rochester Hills Planning & Economic Development Subject: Group Received Author: C.McLeod 11/4/2024 Date: 11/15/2024 12:14:48 PM Status: City of Rochester Hills Planning & Economic Development Received Author: C.McLeod 11/4/2024 Date: 11/15/2024 12:14:42 PM Status: City of Rochester Hills Planning & Economic Development Subject: Group Received Author: C.McLeod 11/4/2024 Date: 11/15/2024 12:14:33 PM Status: City of Rochester Hills Planning & Economic Development Subject: Group Received Author: C.McLeod 11/4/2024 Date: 11/15/2024 12:14:22 PM LANTING DETAILS & NOTES LA Status: City of Rochester Hills Planning & Economic Development Subject: Group Received Author: C.McLeod 11/4/2024 Date: 11/15/2024 12:14:16 PM Status: City of Rochester Hills Planning & Economic Development Subject: Group Received Author: C.McLeod 11/4/2024 Date: 11/15/2024 12:14:10 PM Status: City of Rochester Hills Planning & Economic Development SECTION 138-6.507 - Modification of Standards The Planning Commission may modify the dimensional requirements of this Articl Subject: Planning Department SECTION 138-6.507 - Modification of Standards Author: C.McLeod The Planning Commission may modify the Date: 11/15/2024 12:18:08 PM dimensional requirements of this Article 6, Chapter Status: 5 if it finds that another standard would be more reasonable due to existing site or neighborhood conditions, or because the site cannot physically comply with one or more of the requirements listed herein. In making a determination that a

SP (1)

Subject: Group Author: C.McLeod

Date: 11/15/2024 11:59:33 AM

Status:

modification is warranted, the Planning Commission shall review the proposed

development against the standards for approving a conditional use listed in Section 138-2.302.

Subject to final acceptance of roadway and easement configuration by City DPS (1)



Subject: Planning Department

Author: C.McLeod

Date: 11/15/2024 12:17:53 PM

Status:

Subject to final acceptance of roadway and easement configuration by City DPS

The applicant will need to submit a Land Improvement Permit (LIP) application with engineer's estimate, fee and construction plans



Subject: Engineering Department

Author: Jason Boughton Date: 11/5/2024 9:10:38 AM

Status:

The applicant will need to submit a Land Improvement Permit (LIP) application with engineer's estimate, fee and construction plans to proceed with the construction plan review process.

Yes (1)

Yes

Subject: Building Department

Author: J Rhoades

Date: 11/11/2024 8:25:02 AM

Status:

Yes

(13)

Subject: Engineering Department

Author: Jason Boughton Date: 11/5/2024 9:13:03 AM

Status:

Subject: Traffic Author: Keith

Date: 11/6/2024 8:23:52 AM

Status:

Subject: Fire Department

Author: Ann Echols

Date: 11/6/2024 9:30:46 AM

Status:

Subject: Natural Resouces **Author:** Matt Einheuser **Date:** 11/8/2024 2:28:06 PM

Status:

.....

Subject: Jenny McGuckin - YES **Author:** Seth Bucholz

Date: 11/12/2024 8:39:25 AM

Status:

.....

Subject: Group Author: C.McLeod

Date: 11/15/2024 11:59:11 AM



Subject: Group Author: C.McLeod

Date: 11/15/2024 11:59:45 AM

Status:

Subject: Planning Department

Author: C.McLeod

Date: 11/15/2024 12:23:56 PM

Status:



Subject: Highlight Author: Ann Echols

Date: 11/6/2024 9:28:10 AM

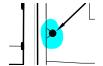
Status:



Subject: Highlight Author: Ann Echols

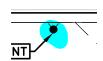
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