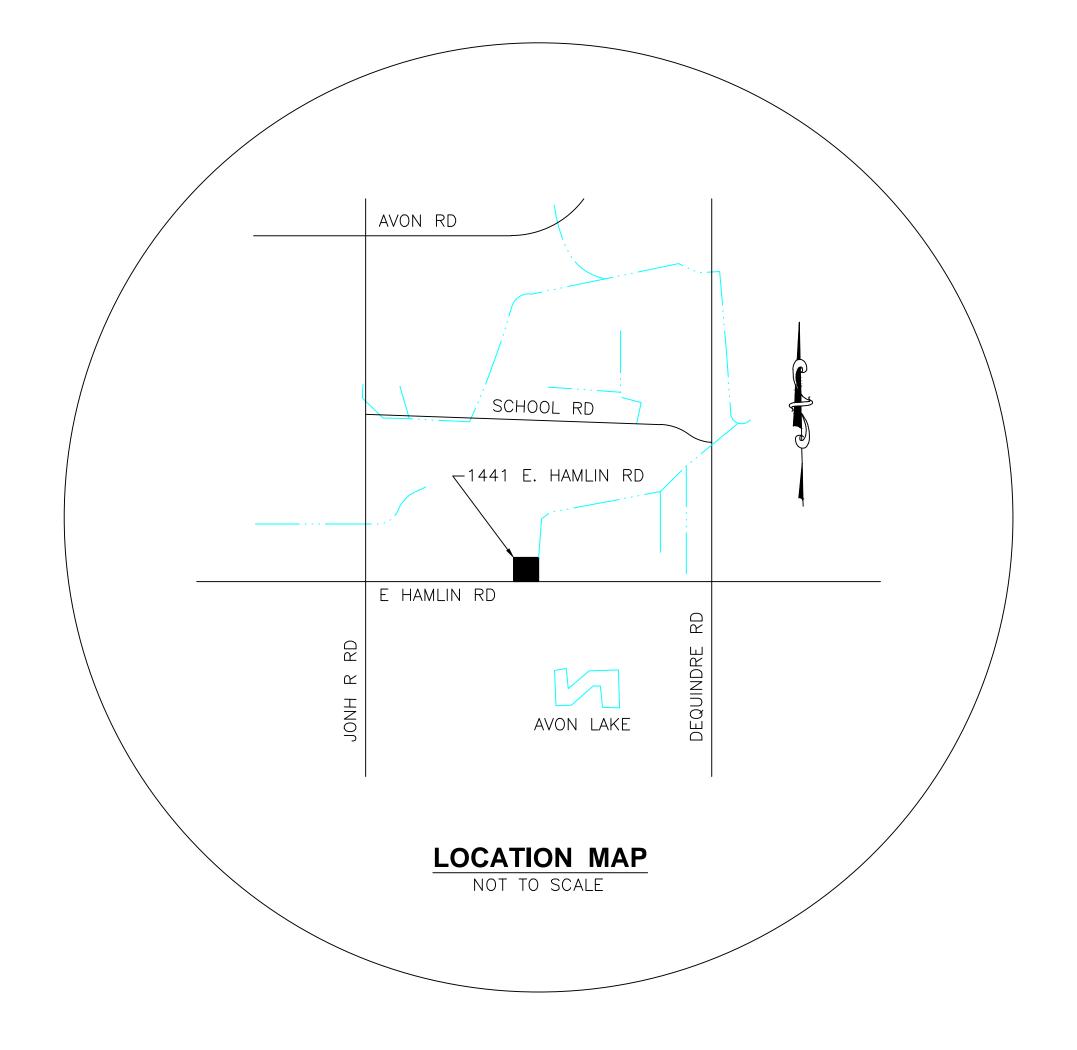
- COVER SHEET
- TOPOGRAPHIC SURVEY
- SITE REMOVAL PLAN
- SITE PLAN
- SITE DETAILS
- SITE DETAILS
- WETLAND & TREE SURVEY
- WETLAND & TREE REMOVAL AND PRESERVATION PLAN
- TREE INVENTORY
- LANDSCAPE PLAN
- PHOTOMETRIC PLAN
- PHOTOMETRIC DETAILS



LEGAL DESCRIPTION (TAX ID #70-15-24-326-004):

THE EAST ½ OF THE SOUTH 20 ACRES OF THE EAST ½ OF THE SOUTHWEST ¼ OF SECTION 24, T3N, R11E, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN, DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTH 1/4 CORNER OF SAID SECTION 24; THENCE N. 89°21'00" W. 669.90 FEET; THENCE N. 00°20'20" E. 642.82 FEET; THENCE S. 88°08'40" E. 670.12 FEET; THENCE S. 00°20'20" W. 628.72 FEET TO THE POINT OF BEGINNING. SAID PARCEL CONTAINS 9.777 ACRES TOTAL AND 8.855 ACRES NET. (NO BOUNDARY SURVEY WAS PROVIDED AT THIS TIME AND ALL PROPERTY LINES AS SHOWN AND LEGAL DESCRIPTION ARE PROVIDED BY CLIENT)

TOTAL ACREAGE = 9.777 TOTAL NET ACREAGE = 8.855

DEVELOPER: WIEGAND DEVELOPMENT 37580 MOUND ROAD STERLING HEIGHTS, MI 48310 CONTACT: MICHAEL KLIEMAN PHONE: 586.939.0840 EMAIL: mike@jhwiegands.com

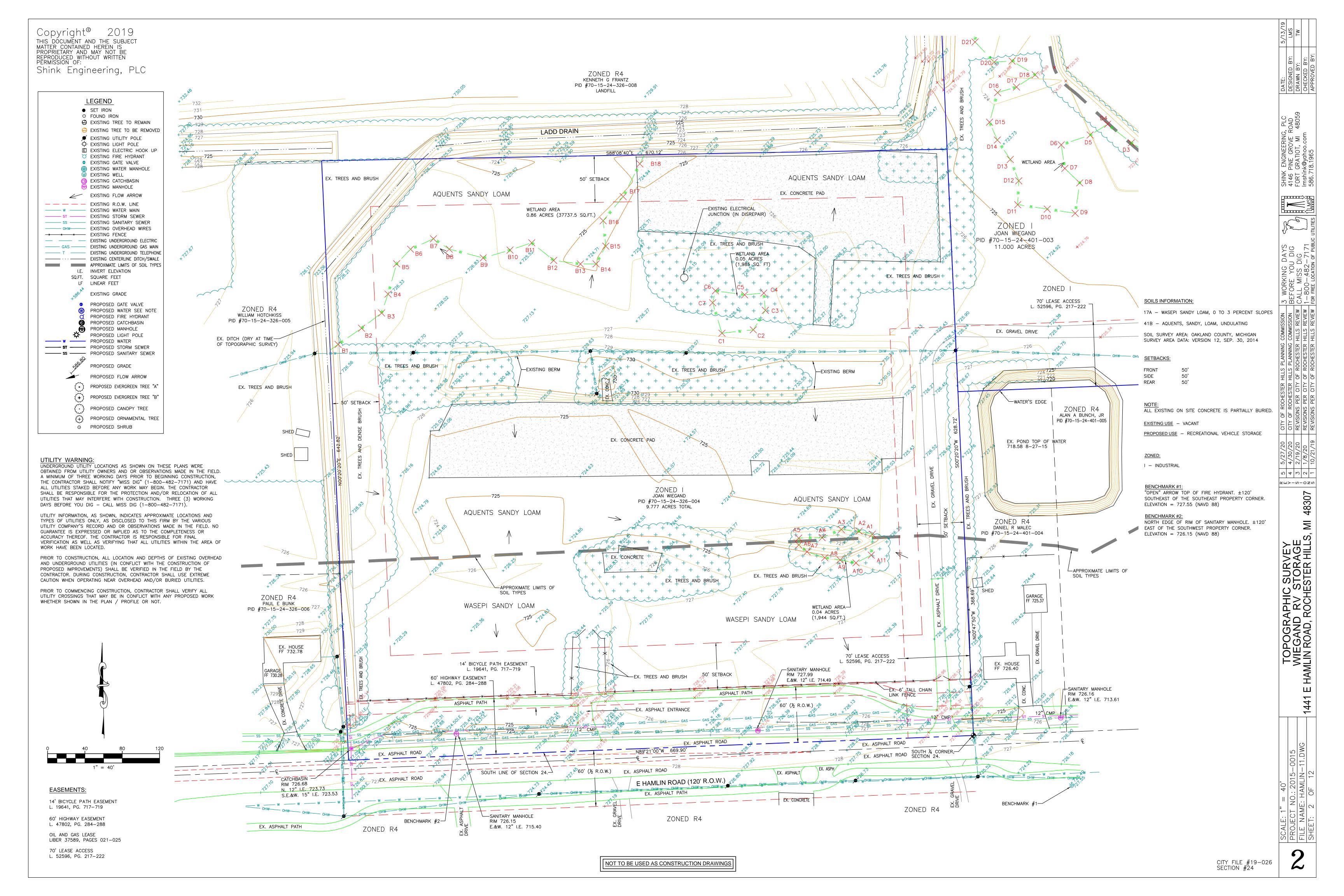
SITE PLAN BY: SHINK ENGINEERING, PLC 4146 PINE GROVE ROAD FORT GRATIOT, MI 48059 CONTACT: LORI M SHINK PHONE: 586-718-1965 EMAIL: Imshink@yahoo.com

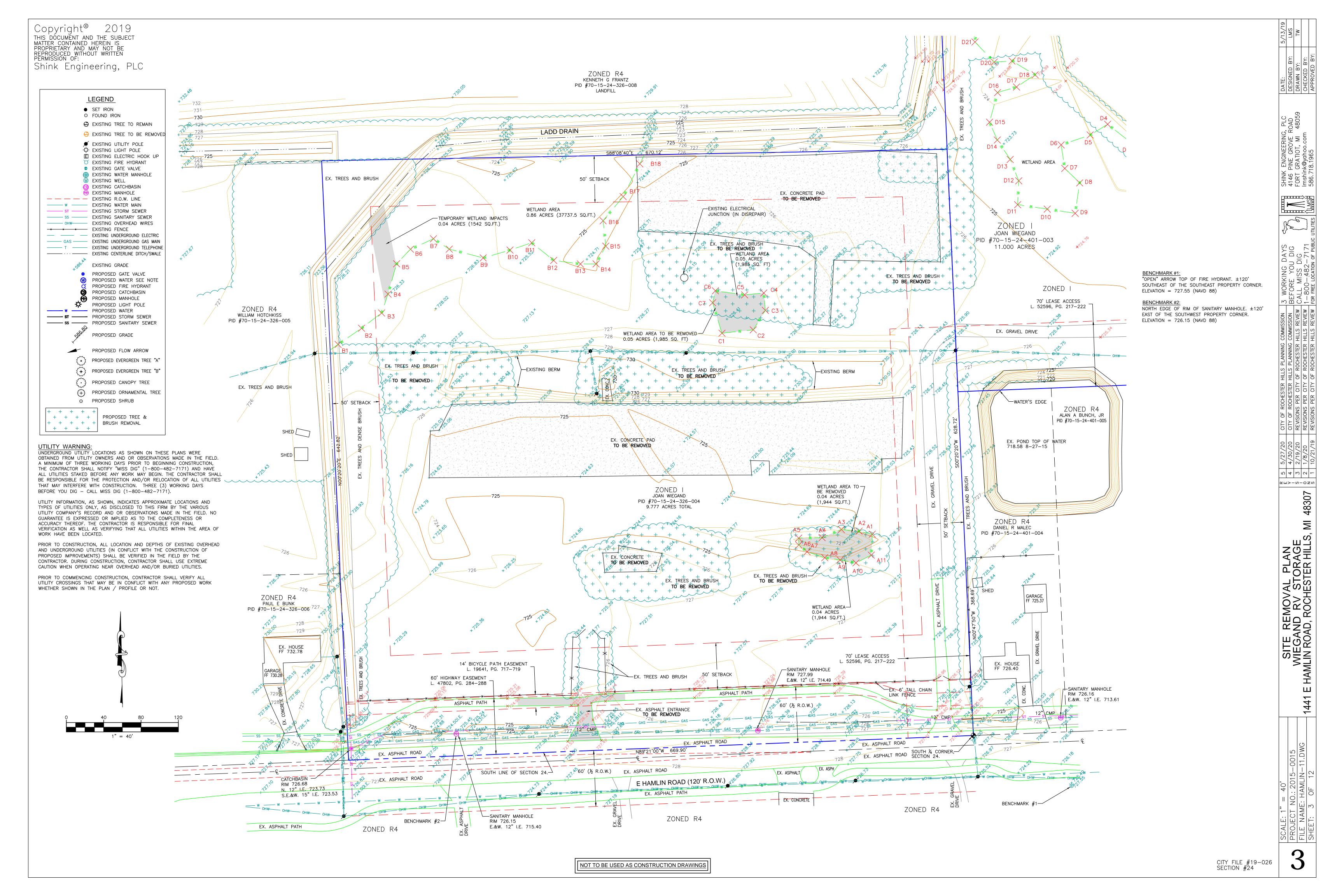
NOT TO BE USED AS CONSTRUCTION DRAWINGS

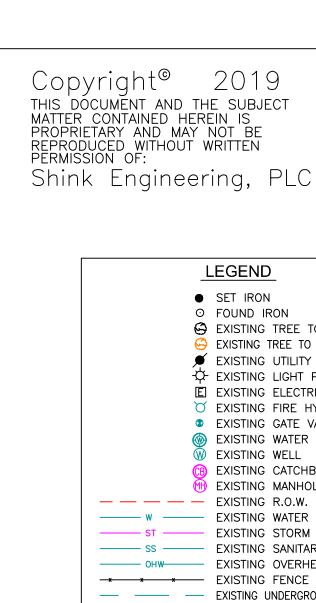
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SET IRON O FOUND IRON EXISTING TREE TO REMAIN EXISTING TREE TO BE REMOVED ■ EXISTING UTILITY POLE E EXISTING ELECTRIC HOOK UP T EXISTING FIRE HYDRANT EXISTING GATE VALVE EXISTING WATER MANHOLE W EXISTING WELL EXISTING CATCHBASIN EXISTING MANHOLE — — — — EXISTING R.O.W. LINE ----- w ----- EXISTING WATER MAIN ———— ST ———— EXISTING STORM SEWER ——— OHW———— EXISTING OVERHEAD WIRES * * * EXISTING FENCE — — EXISTING UNDERGROUND ELECTRIC ——— GAS ———— EXISTING UNDERGROUND GAS MAIN T EXISTING UNDERGROUND TELEPHONE EXISTING CENTERLINE DITCH/SWALE I.E. INVERT ELEVATION SQ.FT. SQUARE FEET LF LINEAR FEET EXISTING GRADE PROPOSED GATE VALVE PROPOSED WATER SEE NOTE PROPOSED FIRE HYDRANT PROPOSED CATCHBASIN PROPOSED MANHOLE PROPOSED LIGHT POLE PROPOSED WATER ----- ST ------ PROPOSED STORM SEWER ----- SS ----- PROPOSED SANITARY SEWER PROPOSED GRADE PROPOSED FLOW ARROW PROPOSED EVERGREEN TREE PROPOSED CANOPY TREE PROPOSED ORNAMENTAL TREE ⊙ PROPOSED SHRUB

UTILITY WARNING

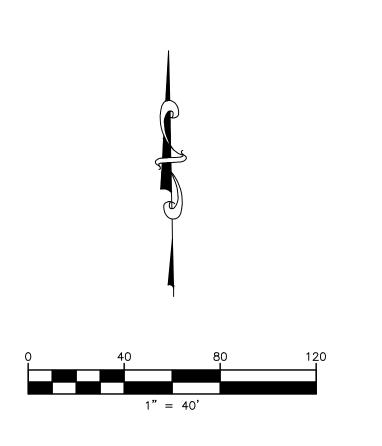
UNDERGROUND UTILITY LOCATIONS AS SHOWN ON THESE PLANS WERE OBTAINED FROM UTILITY OWNERS AND OR OBSERVATIONS MADE IN THE FIELD. A MINIMUM OF THREE WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY "MISS DIG" (1-800-482-7171) AND HAVE ALL UTILITIES STAKED BEFORE ANY WORK MAY BEGIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND/OR RELOCATION OF ALL UTILITIES THAT MAY INTERFERE WITH CONSTRUCTION. THREE (3) WORKING DAYS BEFORE YOU DIG - CALL MISS DIG (1-800-482-7171).

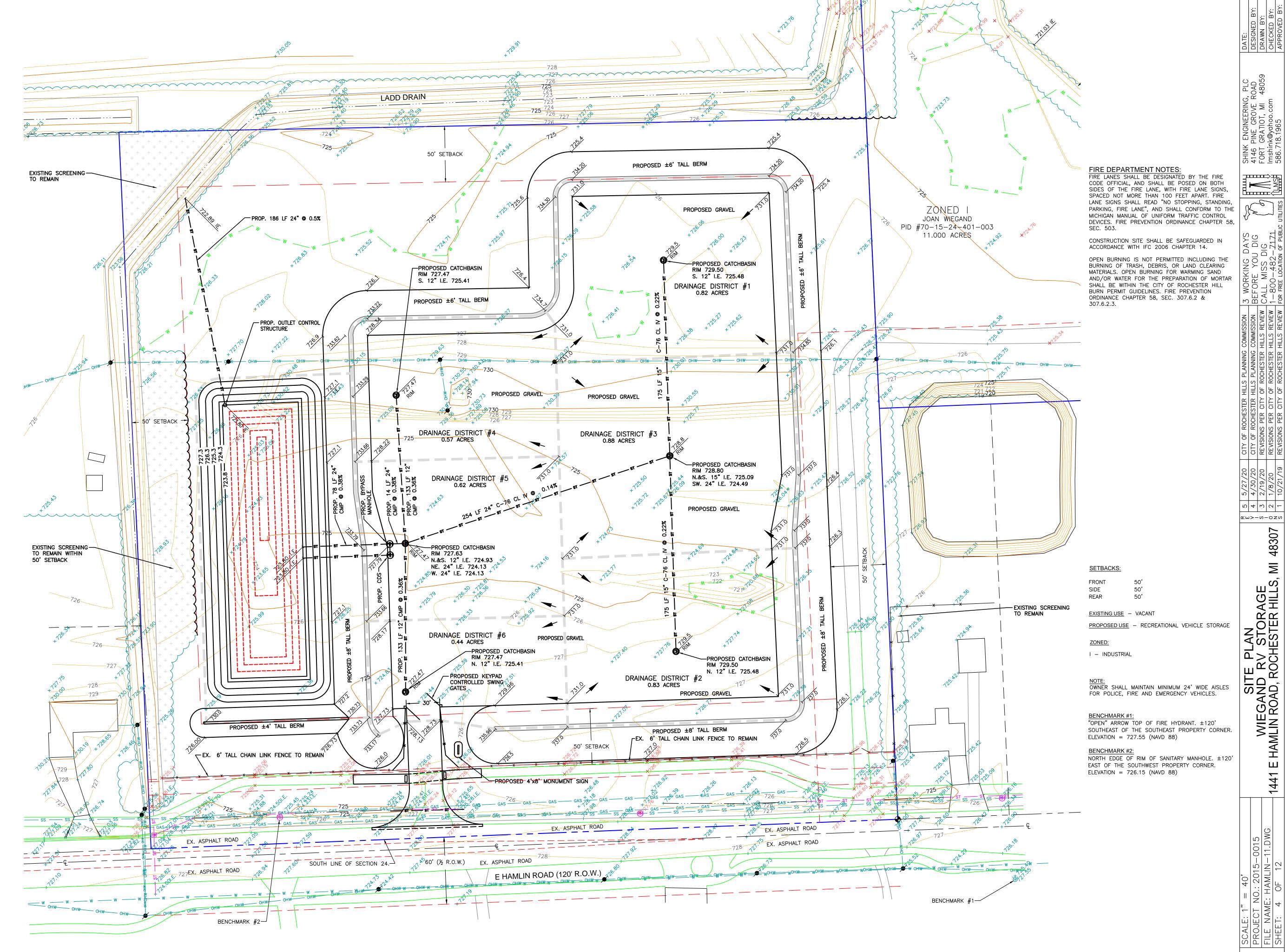
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PRIOR TO CONSTRUCTION, ALL LOCATION AND DEPTHS OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES (IN CONFLICT WITH THE CONSTRUCTION OF PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. DURING CONSTRUCTION, CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR OVERHEAD AND/OR BURIED UTILITIES.

PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL UTILITY CROSSINGS THAT MAY BE IN CONFLICT WITH ANY PROPOSED WORK WHETHER SHOWN IN THE PLAN / PROFILE OR NOT.

NOTE:
NO VEHICLES/TRAILERS TALLER THAN 10 FEET SHALL
BE PARKED ALONG THE SOUTHERLY 20 FEET OF
THE PROPOSED PARKING LOT.





NOT TO BE USED AS CONSTRUCTION DRAWINGS

CITY FILE #19-026 SECTION #24

UTILITY WARNING:

UNDERGROUND UTILITY LOCATIONS AS SHOWN ON THESE PLANS WERE OBTAINED FROM UTILITY OWNERS AND OR OBSERVATIONS MADE IN THE FIELD. A MINIMUM OF THREE WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY "MISS DIG" (1-800-482-7171) AND HAVE ALL UTILITIES STAKED BEFORE ANY WORK MAY BEGIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND/OR RELOCATION OF ALL UTILITIES THAT MAY INTERFERE WITH CONSTRUCTION. THREE (3) WORKING DAYS BEFORE YOU DIG - CALL MISS DIG (1-800-482-7171).

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PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL UTILITY CROSSINGS THAT MAY BE IN CONFLICT WITH ANY PROPOSED WORK WHETHER SHOWN IN THE PLAN / PROFILE OR NOT.

STANDARD NOTES

- 1. ALL CONSTRUCTION MUST BE CONFORMING TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF ROCHESTER HILLS, OAKLAND COUNTY AND THE STATE OF MICHIGAN.
- 2. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES, THE TOWNSHIP ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION, 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- 3. CALL <u>MISS DIG</u> (1-800-482-7171) A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- 4. FULL—TIME CONSTRUCTION REVIEW MAY BE REQUIRED DURING ALL PHASES OF CONSTRUCTION INCLUDING GRADING, PAVING, INSTALLATION OF SANITARY SEWER, STORM SEWERS, DRAINS, WARRE MAINS AND APPURTENANCES, AND STREETS, WHERE
- 5. ALL SOIL EROSION AND SILT MUST BE CONTROLLED AND CONTAINED ON SITE.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO
- EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATION. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION PRIOR TO CONSTRUCTION.
- 8. MEET EXISTING GRADES AT ALL PROPERTY LINES.
- 9. CONSTRUCTION SHALL NOT COMMENCE WITHOUT A REPRESENTATIVE OF THE OWNER PRESENT.
- 10. PRIOR TO CONSTRUCTION CONTRACTOR MUST HAVE IN HIS POSSESSION A COPY OF ALL PERMITS NECESSARY FOR CONSTRUCTION.
- 11. THE CONTRACTOR SHALL MAINTAIN HIS CONSTRUCTION OPERATIONS WITHIN THE PRESENT ROAD RIGHT—OF—WAY AND EASEMENTS AS NOTED ON THE PLANS. IN THE EVENT THE CONTRACTOR DEEMS IT NECESSARY TO OPERATE BEYOND THESE LIMITS, HE SHALL BE RESPONSIBLE FOR MAKING WRITTEN AGREEMENTS WITH THE PROPERTY OWNERS AND WILL FURNISH SAME TO OWNER AND TOWNSHIP ENGINEER.
- 12. THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES.
- 13. PAVED STREETS SHALL BE MAINTAINED IN A REASONABLE STATE OF CLEANLINESS.
- 14. FLOW IN EXISTING SEWERS SHALL BE MAINTAINED AT ALL TIMES.15. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE
- ON SITE DRAINAGE.

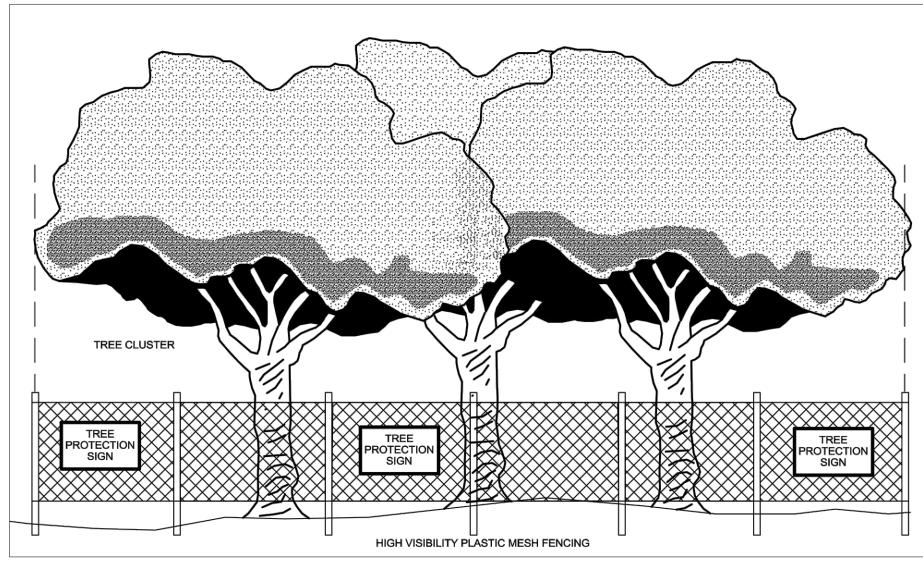
 16. ALL DISTURBED AREAS NOT PAVED UPON SHALL BE TREATED
- WITH 3" OF TOPSOIL, SEED AND MULCH.

 17. ALL SIGNS MUST MEET SECTION 138-8.603 AND CHAPTER 134
 OF THE CITY CODE OF ORDINANCES AND BE APPROVED UNDER

A SEPARATE PERMIT ISSUED BY THE BUILDING DEPARTMENT.

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<i></i>	PROPOSED	CANOPY TREE
\oplus	PROPOSED	ORNAMENTAL TR
•	PROPOSED	SHRUB

	CALCULAT	ION S				-	
AREA (ACRES)	"C" FACTOR	ACRE IMPERVIOUS					
0.80	1.00	0.80 2.95	POND GRAVEL PA	AVING			
1.07	0.17	0.55	GRASS	AVING			
COMPOUND C: TOTAL DRAINAGE	AREA:	0.81 5.34	ACRES				
K1 = AxC (Design C	E 40' 200		4.2995				
Qr = Allowable Rele Qa = Qr * A =		20 cfs/ac.	7.200	1.07	CFS		
100 YR. FLOOD VO	LUME REQU	IRED					
Qo = Qa/A*C=	0.25	CFS/AC-IMP.					
T100 = -25+SQRT(1	658,000						
50.00	16500*T100	STATE OF LANCES					
	T100+25						
=	12699	CF/AC-IMP.					
Vt=	Vs*A*C =	54601	CF	0.5			
REQUIRED 100 YE SEDIMENT FOREE			54601 10734				
BANKFULL FLOOI The Bankfull Volume	e is a 24 hour,			*C)			
V _{BF} = 8170 * A * C=		35127	CF				
FIRST FLUSH VOL							
The First Flush Volu V _{FF} = 3630 x A x C=		or rain over ent		0.			
STORAGE PROVI)ED						
ELEV.	AREA	DEPTH	VOLUME (ET ³)	TOTAL			
727.3	(FT ²) 31537.4	(FT) 1	(FT ³) 29,278	VOLUME (FT3) 83,887	FREEBOARD		
726.3 725.3	27074.7 22818.2	1	24,916 20,775	54,609 29,693	HIGHWATER	ELEVATIO	N
724.3 723.8	18797.5 16889.9	0.5 0	8,918 0	8,918 0			
723.8	16889.9	0	0	0			
FIRST FUUSH							
X _{FF} =	724.62						
RINKELLI FLOOD							
B <mark>UNKFULL FLOOD</mark>							
X _{BF} =	725.52						
100 YEAR							
X ₁₀₀ =	726.30						
TOP OF BERM	727.30						
OUTLET CONTRO		<u> </u>					
FIRST FLUSH OF F THE AVERAGE ALL		L LEASE RATE FO	IR RUNOFF	IS 1" OVER AREA	OF SITE IN 2	4 HRS.	
Q _{FF} = V _{FF} x (1/24HR	S) x (1HR/360)0SEC)=		0.181	CFS		
PLACE OPENINGS	IN STANDPIE	PE AT BOTTOM C	DFBASIN=			723.80	
HEAD = h = X100 -	BOTTOM BA	SIN ELEV =		2.50	FT		
A = Qrr / (0.62 x (2			() ()	0.023	FT ²		
1100	1		ODIDOCI	HAS ANAREA OF	WARPEN DOWN IN THE	SF	
A	•		<i>x</i>	TAS ANAREA OF	0.0055	Sr.	
	0.0055	=	4.21				
	HOLES,	AT ELEV.	OF 723,80	1	INCH DIAME	IER HOLES	
QFF _{ACTUAL} =	0.215						
BANKFULL FLOOD FOR THE ALLOWA		E RATE OF 24-44	O HOURS O	HECK THE DISCH	ARGE THROU	IGH THE	
FIRST FLUSH ORIF	The second secon	The second state of the se	and the second s	The state of the s	II INOU		
HEAD = h = X100 -	ВОТТОМ ВА	SIN ELEV =		2.50	FT		
Q _{90.0} = 0.62x #HOLE				0.5 =		0.215	
T _{90.0} = (1SEC / Q ₉₀	OXVBFX(1	HR / 3600SEC) =			45.48	HRS	CFS
BECAUSE THE HO	LDING TIME E	XCEEDS 40 HR	S, ADDITIO	NAL ORIFICES IN	THE STANDP	PE ARE RE	Carlot and the second second
VOLUME THROUGH V=Q90.0x24HRSx36		5	1 18535	INCH DIAMETER I	HOLES IN 24	HOURS:	
REMAINING VOL. OBF = REMAINING		16592	CF			0.192	
PLACE OPENINGS		An He sa			724.62		CFS
HEAD = h = X100 - A = QBF / { 0.62 *	Xff =		1.68	FT 0.030	W. C. 1994.2	7	
A = 0.02	1		S OBIEICE I	HAS ANAREA OF	0.0055	SF	
	0.0055		5.46	INCH DIAMETER			724.62
QBF _{ACTUAL} =	0.211	CFS CFS		ATS IT DIAMETEK	HOLL JAIL	L V	I ETIVE
100 YEAR FLOOD							
Q ₃ = ALLOWABLE	RELEASE RA	TE x AREA OF S	ITE IN ACR	L ES=		1.07	CFS
Q _a IS A PEAK OR N					NG THROUGH		
The state of the s	FULL ORIFICE	ES, USING THE T	OTAL HEAD	, AND SUBTRACT		and the same of th	3
QFFactual+QBFactu	JAL =	0.215	CFS				
Qa - (QFF + QBF) =		0.853	CFS				
A= Q _a /(0.62*(2)				0.132	SE.		
		77				05	
A	1			AS ANAREA OF	0.005	SF	
	0.005	=	24.28				
		ARRIO AUTROCO	OF	1	INCH DIAME	TER HOLES	.
THEREFORE, U SE	HOLES AT E		725.52		<u></u>		
THEREFORE, U SE							
THEREFORE, USE 24 SUMMARY O	HOLES AT E	LEV. =	725.52 DLE S:				
THEREFORE, USE 24 SUMMARY O	HOLES AT E	STANDPIPE HO	725.52 DLE S:				



PROTECTIVE FENCING:

Orange Vinyl construction fencing, chain link fencing, snow fencing or other similar fencing at least four feet (4') high and supported at a maximum of ten-foot (10') intervals by approved methods sufficient enough to keep the fence upright and in place. The fencing shall be of a highly visible material, and shall have a tree protection sign affixed to the fence every twenty (20) feet in such a manner to be clearly visible to the workers on-site.

PRIOR TO CONSTRUCTION:

The contractor or subcontractor shall construct and maintain, for each protected tree or group of trees on a construction site, a protective fencing which encircles the outer limits of the critical root zone of the trees to protect them from construction activity. All protective fencing shall be in place prior to commencement of any site work and remain in place until all exterior work has been completed.

TYPICAL TREE PROTECTION FENCING

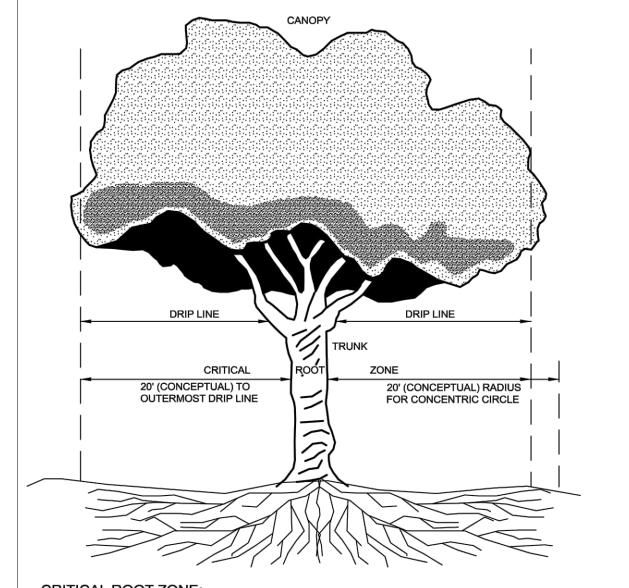
NO SCALE

FIRE DEPARTMENT NOTES:

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 TOPPING, STANDING, PARKING, FIRE LANE", AND SHALL CONFORM TO THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

CONSTRUCTION SITES SHALL BE SAFEGUARDED IN ACCORDANCE WITH IFC 2006 CHAPTER

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.



CRITICAL ROOT ZONE: The area of undisturbed

The area of undisturbed natural soil around a tree defined by a concentric circle with a radius to the distance from the tree trunk to the outermost portion of the drip line.

DRIP LINE:

A vertical line run through the outermost portion of the canopy of a tree and extending to the ground.

CRITICAL ROOT ZONE AREA

"C" FACTOR	STATION FROM	STATION TO	LENGTH OF RUN	PIPE	SLOPE	ACRES	TOTAL ACRES	TIME FLOW (T)	TIME CONC. (Tt)	INTENSITY	FLOW Q	VELOCITY	CAPACITY Q
			(FEET)	(INCHES)	%			(MIN)	(MIN)			(FPS)	(CFS)
0.81	CB #1	CB #3	175	15	0.0022	0.82	0.82	1.17	16.17	4.25	2.8	2.5	3.2
0.81	CB #2	CB #3	175	15	0.0022	0.83	0.83	1.17	16.17	4.25	2.9	2.5	3.2
0.81	CB #3	CB #5	254	24	0.0014	0.88	2.53	1.57	17.73	4.10	8.4	2.7	8.4
0.81	CB #4	CB #5	133	12	0.0036	0.57	0.57	0.79	15.79	4.29	2.0	2.8	2.4
0.81	CB #6	CB #5	133	12	0.0036	0.44	0.44	0.79	15.79	4.29	1.5	2.8	2.4
0.81	CB #5	Pond	88	24	0.0038	0.62	4.16	0.43	18.17	4.05	13.7	3.4	14.0

2 ... 2

DATE:
DESIGNED BY:
DRAWN BY:

SHINK ENGINEERING, PLC 4146 PINE GROVE ROAD FORT GRATIOT, MI 48059 Imshink@ydhoo.com 586.718.1965

SHINI 4146 4146 FORT Imshini UTILITIES

M S WORKING DAYS

M BEFORE YOU DIG

W CALL MISS DIG

W 1-800-482-7171

HESTER HILLS PLANNING COMMISSION

HESTER HILLS PLANNING COMMISSION

ER CITY OF ROCHESTER HILLS REVIEW

ER CITY OF ROCHESTER HILLS REVIEW

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S 3 2/19/20 REV
O 2 1/8/20 REV
S 1 10/21/19 REV

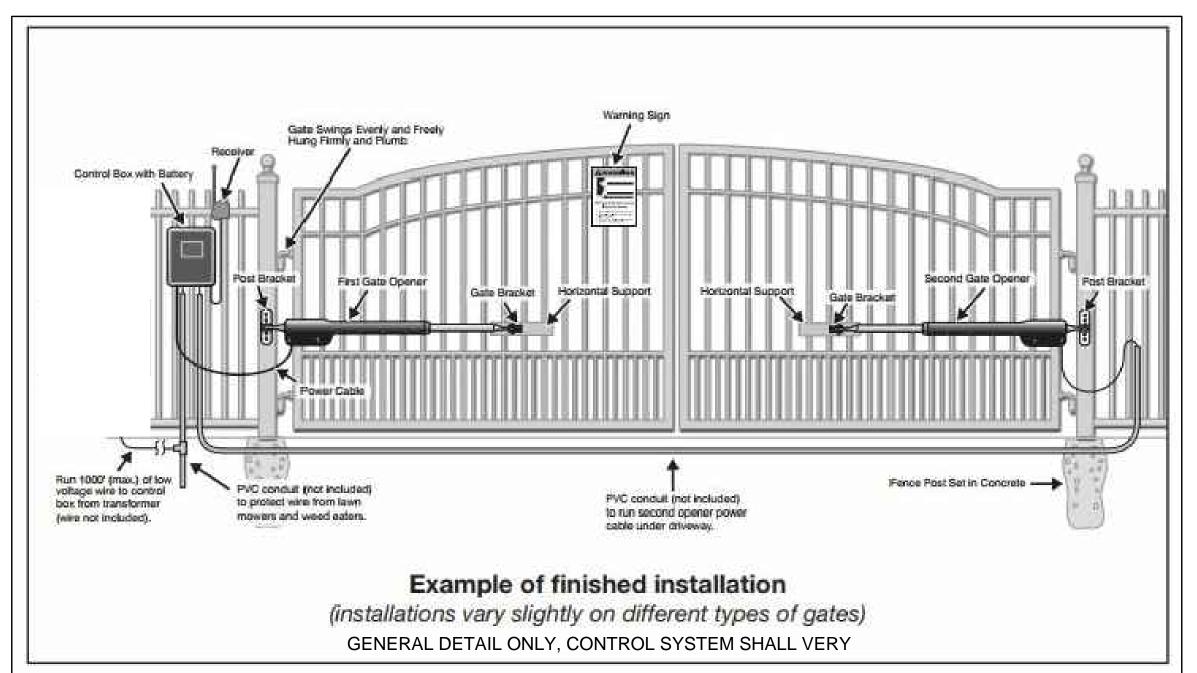
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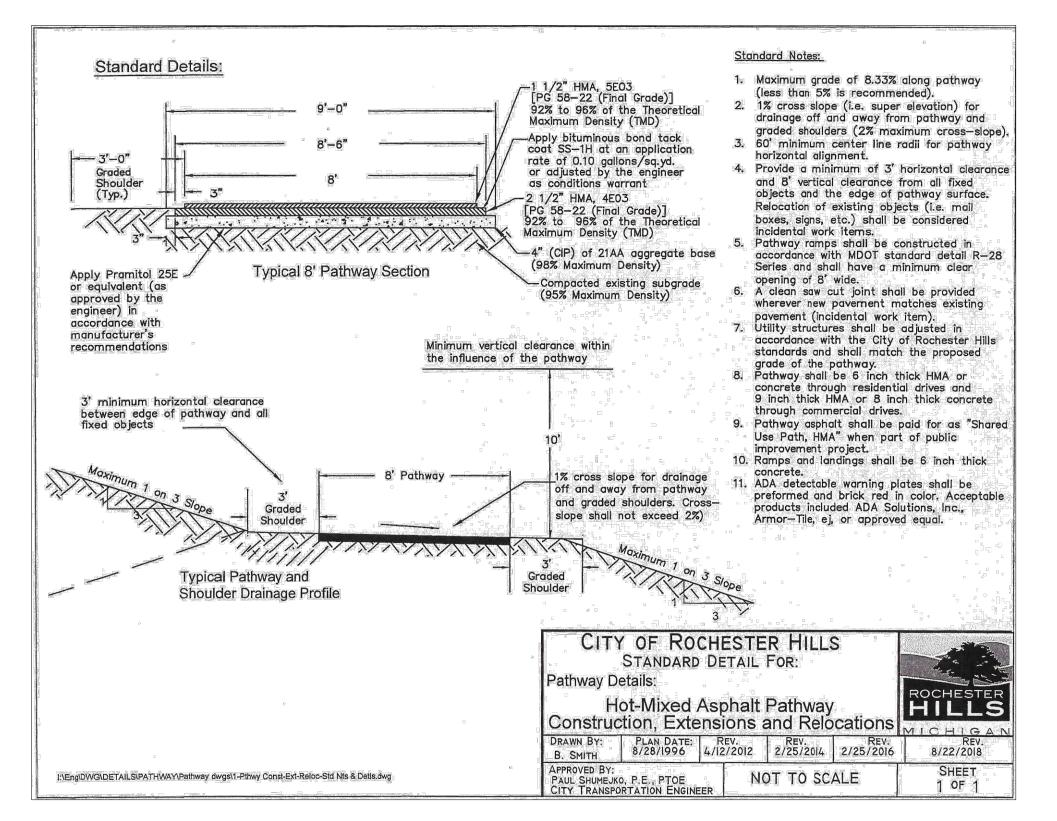
SITE DETAILS WIEGAND RV STORAGE E HAMLIN ROAD, ROCHESTER HILLS, M

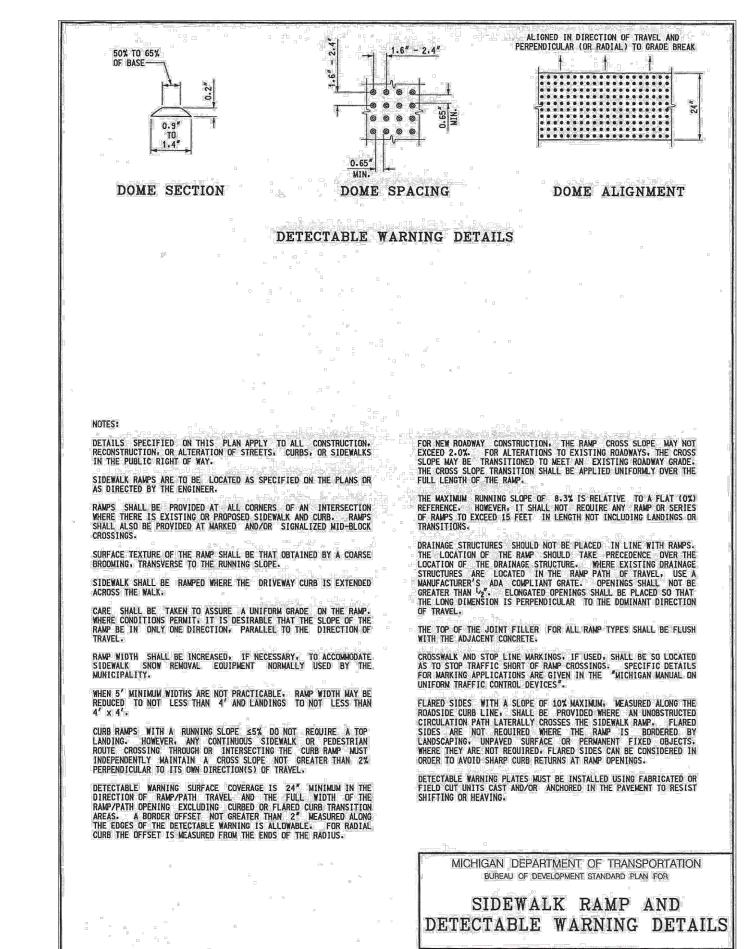
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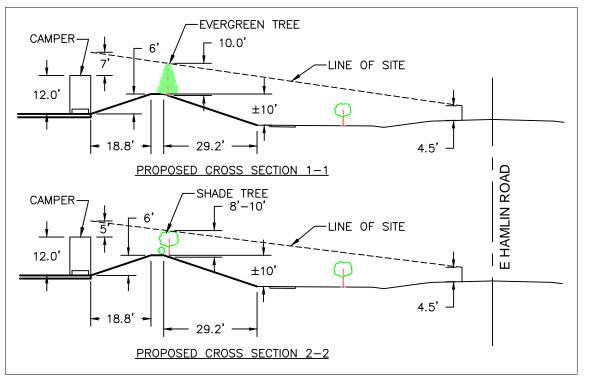
E NAME: HAMLIN-11.DWG

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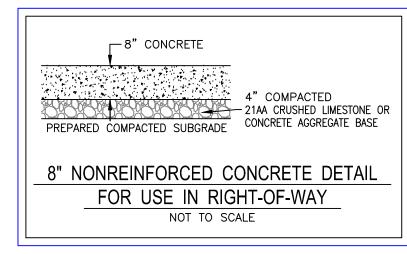


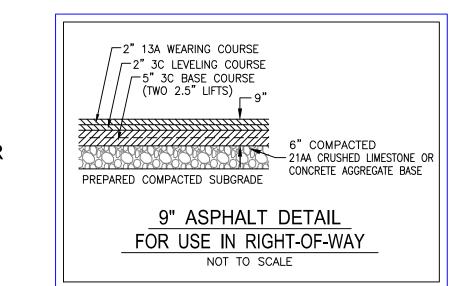


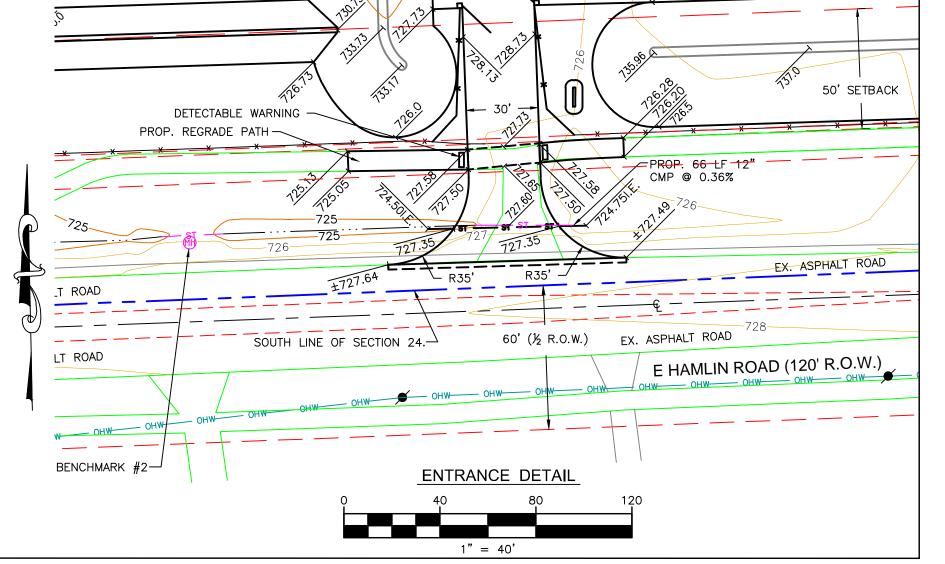




LINE OF SITE DRAWINGS







UTILITY WARNING:

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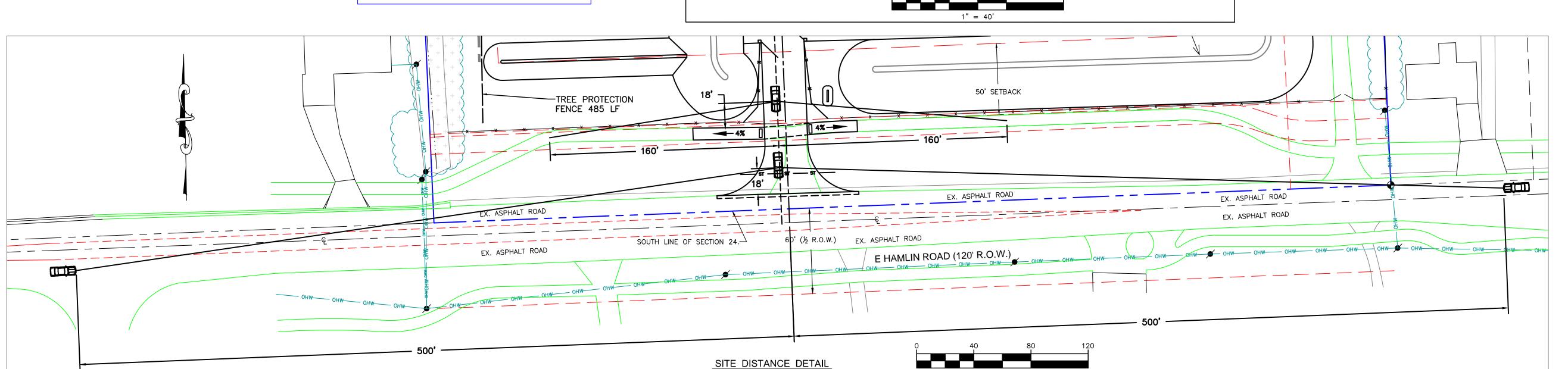
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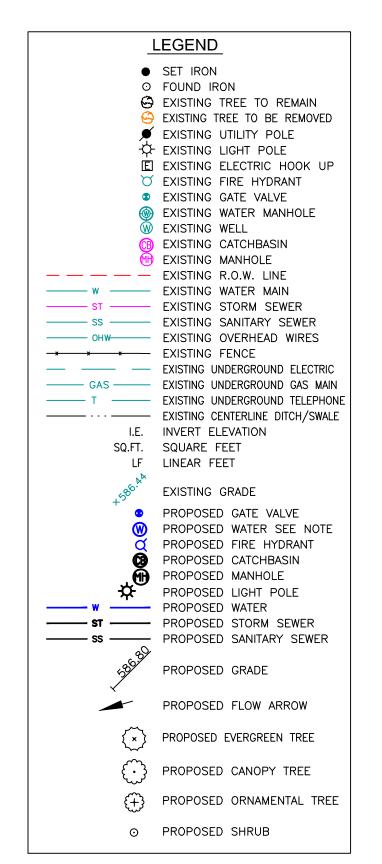
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PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL UTILITY CROSSINGS THAT MAY BE IN CONFLICT WITH ANY PROPOSED WORK WHETHER SHOWN IN THE PLAN / PROFILE OR NOT.

> **BENCHMARK #1:** "OPEN" ARROW TOP OF FIRE HYDRANT. ±120" SOUTHEAST OF THE SOUTHEAST PROPERTY CORNER. ELEVATION = 727.55 (NAVD 88)

BENCHMARK #2: NORTH EDGE OF RIM OF SANITARY MANHOLE. ±120' EAST OF THE SOUTHWEST PROPERTY CORNER. ELEVATION = 726.15 (NAVD 88)





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SITE DETAILS WIEGAND RV STORAGE HAMLIN ROAD, ROCHESTER HILLS