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Shink Engineering, PLC

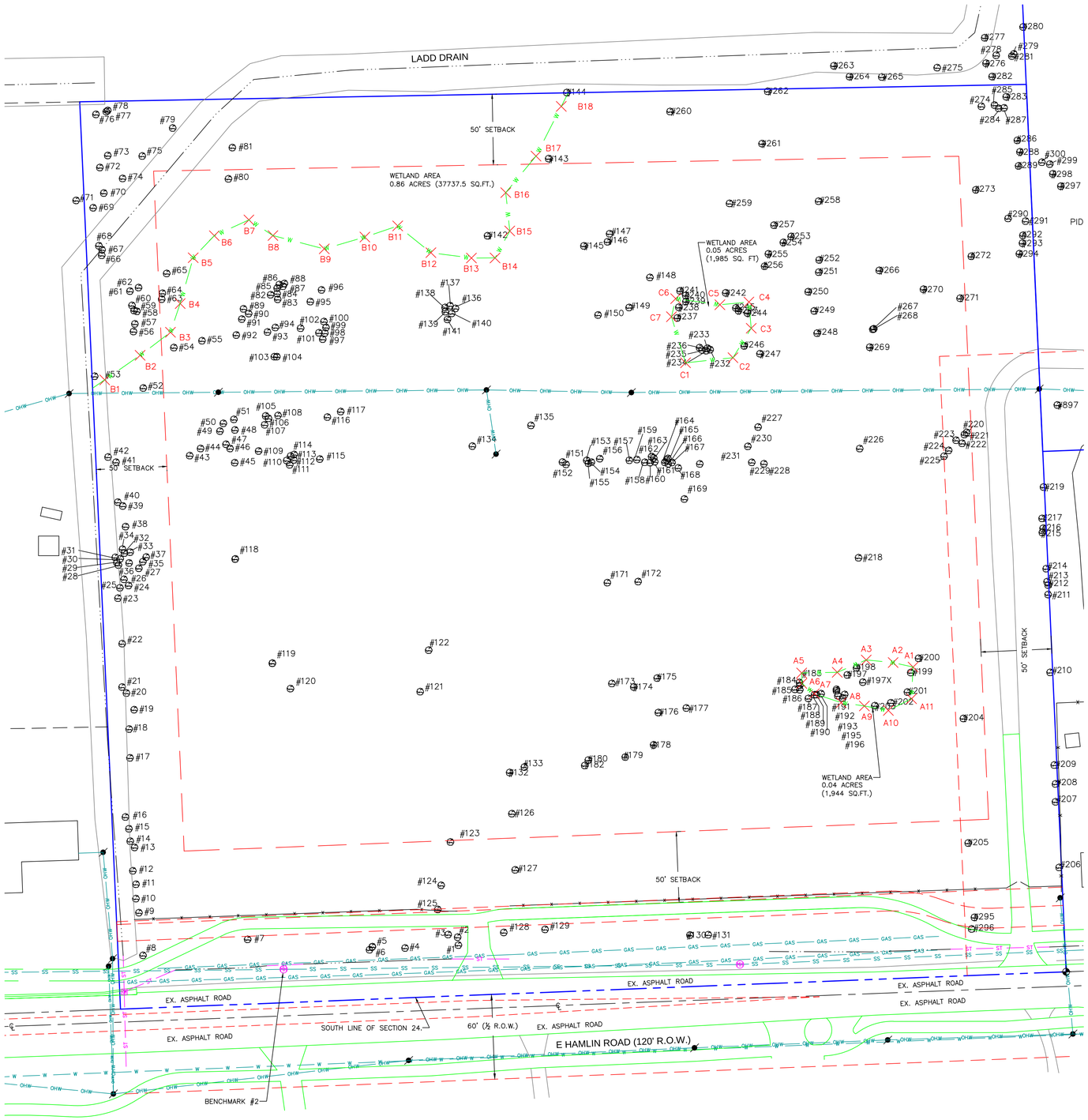
LEGEND

- SET IRON
- FOUND IRON
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING ELECTRIC HOOK UP
- EXISTING FIRE HYDRANT
- EXISTING GATE VALVE
- EXISTING WATER MANHOLE
- EXISTING WELL
- EXISTING CATCHBASIN
- EXISTING MANHOLE
- EXISTING R.O.W. LINE
- W — EXISTING WATER MAIN
- ST — EXISTING STORM SEWER
- SS — EXISTING SANITARY 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
- W — 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

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)

0 50 100 150
1" = 50'



NOT TO BE USED AS CONSTRUCTION DRAWINGS

WETLAND DELINEATION BY:
DORTMAN ENVIRONMENTAL, LLC
8888 STATE ROAD
BURTCHVILLE, MI 48059
DAVID DORTMAN
DORTMAND@YAHOO.COM
810-689-3106
JUNE 25, 2019

TREE SURVEY BY:
DORTMAN ENVIRONMENTAL, LLC
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DAVID DORTMAN
DORTMAND@YAHOO.COM
810-689-3106
MARCH 7-18, 2019

CITY FILE #19-026
SECTION #24

REVISIONS		
5	5/27/20	CITY OF ROCHESTER HILLS PLANNING COMMISSION
4	4/30/20	CITY OF ROCHESTER HILLS PLANNING COMMISSION
3	2/19/20	REVISIONS PER CITY OF ROCHESTER HILLS REVIEW
2	1/8/20	REVISIONS PER CITY OF ROCHESTER HILLS REVIEW
1	10/21/19	REVISIONS PER CITY OF ROCHESTER HILLS REVIEW

DATE: 5/13/19
DESIGNED BY: LMS
DRAWN BY: TW
CHECKED BY:
APPROVED BY:

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

3 WORKING DAYS BEFORE YOU DIG
CALL MISS DIG
1-800-482-7171
FOR FREE LOCATION OF PUBLIC UTILITIES

WETLAND AND TREE SURVEY
WIEGAND RV STORAGE
1441 E HAMLIN ROAD, ROCHESTER HILLS, MI 48307

SCALE: 1" = 50'
PROJECT NO.: 2015-0015
FILE NAME: HAMLIN-11.DWG
SHEET: 7 OF 12

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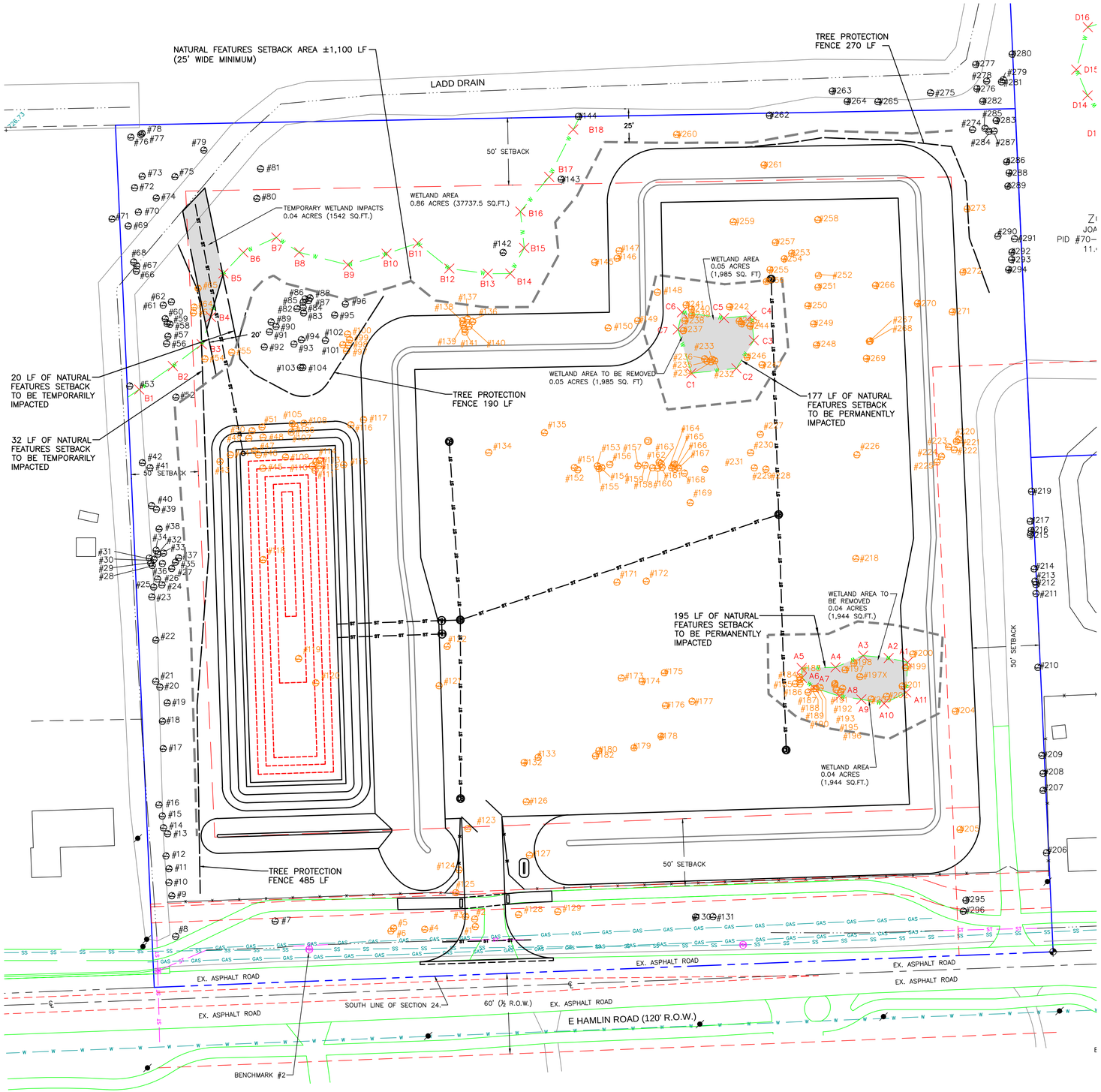
- PROPOSED CATCHBASIN
- PROPOSED MANHOLE
- PROPOSED LIGHT POLE
- W — PROPOSED WATER
- ST — PROPOSED STORM SEWER
- SS — PROPOSED SANITARY SEWER
- 586.60 — PROPOSED GRADE
- PROPOSED FLOW ARROW
- PROPOSED EVERGREEN TREE
- PROPOSED CANOPY TREE
- PROPOSED ORNAMENTAL TREE
- PROPOSED SHRUB

0 50 100 150
1" = 50'



TEMPORARY WETLAND IMPACT NOTES:
THE PROPOSED ACTIONS QUALIFY FOR AN EXCEPTION TO THE WETLAND USE PERMIT PROVIDED THAT:
1. A PRIOR WRITTEN NOTICE IS GIVEN TO THE CITY ENGINEER AND WRITTEN CONSENT IS OBTAINED FROM THE CITY MAYOR TO WORK COMMENCING.
2. THE WORK IS CONDUCTED USING BEST MANAGEMENT PRACTICES (BMPs) TO ENSURE FLOW AND CIRCULATION PATTERNS AND CHEMICAL AND BIOLOGICAL CHARACTERISTICS OF WETLANDS ARE NOT IMPACTED.
3. SUCH THAT ALL IMPACTS TO THE AQUATIC ENVIRONMENT ARE MINIMIZED. BMPs MUST BE IMPLEMENTED DURING THE CONSTRUCTION PHASE OF THE PROPOSED PROJECT AND ANY TEMPORARILY IMPACTED AREAS MUST BE RESTORED TO ORIGINAL GRADE WITH ORIGINAL SOILS OR EQUIVALENT SOILS AND SEEDED WITH A CITY-APPROVED WETLAND SEED MIX.
4. A PART 303, WETLANDS PROTECTION PERMIT FROM EGLE, MUST BE OBTAINED AND SUBMITTED TO THE CITY FOR REVIEW PRIOR TO CONSTRUCTION.

TEMPORARY NATURAL FEATURES IMPACT NOTES:
THE PROPOSED ACTIONS QUALIFY FOR AN EXCEPTION TO THE WETLAND USE PERMIT PROVIDED THAT:
1. A PRIOR WRITTEN NOTICE IS GIVEN TO THE CITY ENGINEER AND WRITTEN CONSENT IS OBTAINED FROM THE CITY MAYOR TO WORK COMMENCING.
2. THE WORK IS CONDUCTED USING BEST MANAGEMENT PRACTICES (BMPs) TO ENSURE FLOW AND CIRCULATION PATTERNS AND CHEMICAL AND BIOLOGICAL CHARACTERISTICS OF WETLANDS ARE NOT IMPACTED.
3. SUCH THAT ALL IMPACTS TO THE AQUATIC ENVIRONMENT ARE MINIMIZED. BMPs MUST BE IMPLEMENTED DURING THE CONSTRUCTION PHASE OF THE PROPOSED PROJECT AND ANY TEMPORARILY IMPACTED AREAS MUST BE RESTORED TO ORIGINAL GRADE WITH ORIGINAL SOILS OR EQUIVALENT SOILS AND SEEDED WITH A CITY-APPROVED WETLAND SEED MIX.

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JUNE 25, 2019

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MARCH 7-18, 2019

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WETLAND AND TREE REMOVAL AND PRESERVATION PLAN
WIEGAND RV STORAGE
1441 E HAMLIN ROAD, ROCHESTER HILLS, MI 48307

SCALE: 1" = 50'
PROJECT NO.: 2015-0015
FILE NAME: HAMLIN-11.DWG
SHEET: 8 OF 12

8

	Tree #	Common Name	Scientific Name	DBH (inches)	Estimated Age	Estimated Height	Health	Comments
REMOVE	1	Siberian elm	Ulmus pumila	6.7			Good	
REMOVE	2	Siberian elm	Ulmus pumila	7.0			Good	
REMOVE	3	blue spruce	Picea pungens	19.9			Good	Previous Tag # 401
REMOVE	4	box elder	Acer negundo	8.0			Good	
REMOVE	5	eastern cottonwood	Populus deltoides	6.1			Good	
REMOVE	6	eastern cottonwood	Populus deltoides	14.6			Good	
	7	silver maple	Acer saccharinum	9.3			Good	
	8	black walnut	Juglans nigra	14.4			Good	
	9	black walnut	Juglans nigra	11.5			Good	Previous Tag # 466
	10	black walnut	Juglans nigra	15.0			Good	Previous Tag # 465
	11	black walnut	Juglans nigra	9.7			Good	Previous Tag # 464
	12	black walnut	Juglans nigra	10.1			Good	
	13	slippery elm	Ulmus rubra	18.0			Good	
	14	black walnut	Juglans nigra	9.0			Good	
	15	black walnut	Juglans nigra	11.9			Good	
	16	black walnut	Juglans nigra	14.5			Good	
	17	black walnut	Juglans nigra	16.0			Good	
	18	American elm	Ulmus americana	10.6			Good	multistem 10.0 & 8.0
	19	box elder	Acer negundo	17.8			Good	Previous Tag # 462
	20	box elder	Acer negundo	16.5			Good	Previous Tag # 461
	21	box elder	Acer negundo	11.0			Good	multistem 11.0 & 8.0
	22	black walnut	Juglans nigra	11.4			Good	
	23	box elder	Acer negundo	17.0			Good	multistem 11.0, previous tag# 460
	24	American elm	Ulmus americana	9.5			Good	
	25	box elder	Acer negundo	8.0			Good	
	26	box elder	Acer negundo	9.0			Good	
	27	box elder	Acer negundo	7.0			Good	
	28	eastern cottonwood	Populus deltoides	19.0			Good	Previous Tag # 455
	29	eastern cottonwood	Populus deltoides	20.5			Good	Previous Tag # 456
	30	eastern cottonwood	Populus deltoides	12.8			Good	Previous Tag # 457
	31	eastern cottonwood	Populus deltoides	24.0			Good	Previous Tag # 458
	32	eastern cottonwood	Populus deltoides	22.2			Good	Previous Tag # 459
	33	American elm	Ulmus americana	11.0			Good	
	34	box elder	Acer negundo	6.5			Good	
	35	box elder	Acer negundo	6.2			Good	
	36	box elder	Acer negundo	8.2			Good	
	37	box elder	Acer negundo	8.0			Good	
	38	box elder	Acer negundo	8.0			Good	
	39	box elder	Acer negundo	13.5			Good	
	40	box elder	Acer negundo	10.0			Good	
	41	box elder	Acer negundo	9.0			Good	
	42	box elder	Acer negundo	36.0			Good	
REMOVE	43	American elm	Ulmus americana	8.0			Good	
REMOVE	44	box elder	Acer negundo	14.2			Good	
REMOVE	45	eastern cottonwood	Populus deltoides	8.8			Good	
REMOVE	46	eastern cottonwood	Populus deltoides	7.2			Good	
REMOVE	47	eastern cottonwood	Populus deltoides	8.4			Good	
REMOVE	48	eastern cottonwood	Populus deltoides	8.0			Good	
REMOVE	49	eastern cottonwood	Populus deltoides	6.4			Good	
REMOVE	50	eastern cottonwood	Populus deltoides	8.6			Good	
REMOVE	51	eastern cottonwood	Populus deltoides	7.6			Good	
	52	staghorn sumac	Rhus typhina	6.0			Good	
	53	staghorn sumac	Rhus typhina	6.3			Good	
REMOVE	54	box elder	Acer negundo	13.5			Good	
REMOVE	55	box elder	Acer negundo	12.0			Good	
	56	box elder	Acer negundo	9.0			Good	
	57	box elder	Acer negundo	8.7			Good	
	58	box elder	Acer negundo	12.2			Good	
	59	box elder	Acer negundo	8.0			Good	
	60	box elder	Acer negundo	6.5			Good	
	61	eastern cottonwood	Populus deltoides	10.2			Good	
	62	eastern cottonwood	Populus deltoides	13.6			Good	
REMOVE	63	eastern cottonwood	Populus deltoides	14.3			Good	
REMOVE	64	eastern cottonwood	Populus deltoides	14.2			Good	
REMOVE	65	eastern cottonwood	Populus deltoides	15.7			Good	
	66	shagbark hickory	Carya ovata	7.0			Good	
	67	shagbark hickory	Carya ovata	6.2			Good	
	68	shagbark hickory	Carya ovata	7.0			Good	
	69	box elder	Acer negundo	9.0			Good	
	70	box elder	Acer negundo	10.2			Good	
	71	box elder	Acer negundo	10.0			Good	
	72	American elm	Ulmus americana	8.2			Good	
	73	American elm	Ulmus americana	9.3			Good	
	74	box elder	Acer negundo	9.5			Good	
	75	box elder	Acer negundo	12.4			Good	
	76	American elm	Ulmus americana	19.5			Good	
	77	American elm	Ulmus americana	9.0			Good	
	78	American elm	Ulmus americana	7.5			Good	
	79	box elder	Acer negundo	17.5			Good	
	80	American elm	Ulmus americana	17.0			Good	
	81	eastern cottonwood	Populus deltoides	30.8			Good	
	82	eastern cottonwood	Populus deltoides	6.7			Good	
	83	eastern cottonwood	Populus deltoides	9.0			Good	
	84	eastern cottonwood	Populus deltoides	16.8			Good	
	85	eastern cottonwood	Populus deltoides	6.8			Good	
	86	eastern cottonwood	Populus deltoides	10.0			Good	
	87	eastern cottonwood	Populus deltoides	7.0			Good	
	88	eastern cottonwood	Populus deltoides	6.1			Good	
	89	eastern cottonwood	Populus deltoides	23.9			Good	
	90	eastern cottonwood	Populus deltoides	10.5			Good	
	91	eastern cottonwood	Populus deltoides	7.5			Good	
	92	Siberian elm	Ulmus pumila	10.3			Good	
	93	eastern cottonwood	Populus deltoides	9.0			Good	
	94	eastern cottonwood	Populus deltoides	9.3			Good	
	95	eastern cottonwood	Populus deltoides	11.3			Good	
	96	black locust	Robinia pseudoacacia	14.3			Good	multistem 9.0 & 9.5
REMOVE	97	eastern cottonwood	Populus deltoides	19.0			Good	
REMOVE	98	eastern cottonwood	Populus deltoides	10.0			Good	
REMOVE	99	eastern cottonwood	Populus deltoides	18.0			Good	
REMOVE	100	eastern cottonwood	Populus deltoides	7.0			Good	
REMOVE	101	eastern cottonwood	Populus deltoides	6.7			Good	
	102	box elder	Acer negundo	9.0			Good	
	103	eastern cottonwood	Populus deltoides	11.7			Good	
	104	eastern cottonwood	Populus deltoides	11.5			Good	
REMOVE	105	eastern cottonwood	Populus deltoides	6.6			Good	
REMOVE	106	eastern cottonwood	Populus deltoides	11.0			Good	
REMOVE	107	eastern cottonwood	Populus deltoides	8.4			Good	
REMOVE	108	eastern cottonwood	Populus deltoides	11.5			Good	
REMOVE	109	eastern cottonwood	Populus deltoides	10.0			Good	
REMOVE	110	eastern cottonwood	Populus deltoides	7.0			Good	

	Tree #	Common Name	Scientific Name	DBH (inches)	Estimated Age	Estimated Height	Health	Comments
REMOVE	111	eastern cottonwood	Populus deltoides	10.0			Good	
REMOVE	112	eastern cottonwood	Populus deltoides	7.0			Good	
REMOVE	113	eastern cottonwood	Populus deltoides	10.5			Good	
REMOVE	114	eastern cottonwood	Populus deltoides	9.5			Good	
REMOVE	115	eastern cottonwood	Populus deltoides	10.7			Good	
REMOVE	116	eastern cottonwood	Populus deltoides	10.5			Good	
REMOVE	117	white mulberry	Morus alba	11.0			Good	
REMOVE	118	eastern redcedar	Juniperus virginiana	8.0			Good	
REMOVE	119	eastern cottonwood	Populus deltoides	19.5			Good	
REMOVE	120	crack willow	Salix fragilis	11.3			Good	
REMOVE	121	silver maple	Acer saccharinum	21.6			Hollow Trunk	Previous Tag # 413
REMOVE	122	eastern cottonwood	Populus deltoides	12.4			Good	
REMOVE	123	black walnut	Juglans nigra	9.5			Good	
REMOVE	124	blue spruce	Picea pungens	19.0			Good	Previous Tag # 403
REMOVE	125	Siberian elm	Ulmus pumila	16.0			Good	Multistem 15.5 Previous Tag # 402
REMOVE	126	black walnut	Juglans nigra	16.0			Good	
REMOVE	127	black walnut	Juglans nigra	19.0			Good	
REMOVE	128	eastern redcedar	Juniperus virginiana	6.2			Good	
	129	eastern white pine	Pinus strobus	9.1			Good	
	130	Siberian elm	Ulmus pumila	7.0			Good	
	131	eastern cottonwood	Populus deltoides	10.5			Good	
REMOVE	132	bur oak	Quercus macrocarpa	18.5			Good	Previous Tag # 408
REMOVE	133	silver maple	Acer saccharinum	19.7			Good	Previous Tag # 409
REMOVE	134	eastern cottonwood	Populus deltoides	12.0			Good	
REMOVE	135	box elder	Acer negundo	14.0			Good	
REMOVE	136	box elder	Acer negundo	14.3			Good	
REMOVE	137	box elder	Acer negundo	11.0			Good	
REMOVE	138	box elder	Acer negundo	14.5			Good	
REMOVE	139	box elder	Acer negundo	10.0			Good	
REMOVE	140	box elder	Acer negundo	15.5			Good	
REMOVE	141	box elder	Acer negundo	11.4			Good	
REMOVE	142	box elder	Acer negundo	15.5			Good	
	143	eastern cottonwood	Populus deltoides	11.5			Good	
	144	crack willow	Salix fragilis	14.5			Good	
REMOVE	145	Siberian elm	Ulmus pumila	23.2			Good	
REMOVE	146	eastern cottonwood	Populus deltoides	15.7			Good	Multistem 10.5 Previous Tag # 450
REMOVE	147	eastern cottonwood	Populus deltoides	18.3			Good	Previous Tag # 452
REMOVE	148	Siberian elm	Ulmus pumila	12.0			Good	Previous Tag # 448
REMOVE	149	eastern cottonwood	Populus deltoides	27.5			Good	Previous Tag # 447
REMOVE	150	Siberian elm	Ulmus pumila	8.4			Good	
REMOVE	151	eastern cottonwood	Populus deltoides	13.0			Good	Multistem 11.5
REMOVE	152	eastern cottonwood	Populus deltoides	16.1			Good	
REMOVE	153	eastern cottonwood	Populus deltoides	14.2			Good	
REMOVE	154	eastern cottonwood	Populus deltoides	12.0			Good	
REMOVE	155	eastern cottonwood	Populus deltoides	8.8			Good	
REMOVE	156	eastern cottonwood	Populus deltoides	10.0			Good	
REMOVE	157	eastern cottonwood	Populus deltoides	10.2			Good	
REMOVE	158	eastern cottonwood	Populus deltoides	10.0			Good	
REMOVE	159	eastern cottonwood	Populus deltoides	9.5			Good	
REMOVE	160	eastern cottonwood	Populus deltoides	10.0			Good	
REMOVE	161	eastern cottonwood	Populus deltoides	12.0			Good	Multistem 7.0
REMOVE	162	eastern cottonwood	Populus deltoides	13.9			Good	
REMOVE	163	eastern cottonwood	Populus deltoides	6.6			Good	
REMOVE	164	eastern cottonwood	Populus deltoides	11.3			Good	
REMOVE	165	eastern cottonwood	Populus deltoides	8.5			Good	
REMOVE	166	eastern cottonwood	Populus deltoides	11.5			Good	
REMOVE	167	eastern cottonwood	Populus deltoides	8.5			Good	
REMOVE	168	eastern cottonwood	Populus deltoides	7.4			Good	
REMOVE	169	eastern cottonwood	Populus deltoides	13.8			Good	Multistem 13.1
REMOVE	170	American elm	Ulmus americana	6.2			Good	
REMOVE	171	eastern cottonwood	Populus deltoides	8.8			Good	Multistem 7.0
REMOVE	172	eastern cottonwood	Populus deltoides	7.8			Good	
REMOVE	173	domestic apple	Malus sp.	13.5			Good	
REMOVE	174	domestic apple	Malus sp.	9.4			Good	
REMOVE	175	crack willow	Salix fragilis	9.2			Good	
REMOVE	176	box elder	Acer negundo	6.8			Good	
REMOVE	177	black walnut	Juglans nigra	7.5			Good	
REMOVE	178	white mulberry	Morus alba	24.5			Good	Multistem 18.2 Previous Tag # 412
REMOVE	179	domestic apple	Malus sp.	11.0			Good	Previous Tag # 411
REMOVE	180	Siberian elm	Ulmus pumila	29.0			Good	
REMOVE	181	Scots pine	Pinus sylvestris	6.5			Good	Multistem 7.2
REMOVE	182	domestic apple	Malus sp.	8.0			Good	
REMOVE	183	crack willow	Salix fragilis	8.8			Good	
REMOVE	184	crack willow	Salix fragilis	9.0			Good	
REMOVE	185	crack willow	Salix fragilis	12.1			Good	
REMOVE	186	crack willow	Salix fragilis	9.1			Good	
REMOVE	187	eastern cottonwood	Populus deltoides	6.7			Good	
REMOVE	188	eastern cottonwood	Populus deltoides	6.0			Good	
REMOVE	189	eastern cottonwood	Populus deltoides	16.0			Good	
REMOVE	190	eastern cottonwood	Populus deltoides	14.4			Good	Previous Tag # 421
REMOVE	191	eastern cottonwood	Populus deltoides	8.5			Good	
REMOVE	192	eastern cottonwood	Populus deltoides	14.0			Good	
REMOVE	193	eastern cottonwood	Populus deltoides	13.3			Good	Multistem 12.5 Previous Tag # 422
REMOVE	194	eastern cottonwood	Populus deltoides	10.5			Good	
REMOVE	195	eastern cottonwood	Populus deltoides	11.4			Good	
REMOVE	196	eastern cottonwood	Populus deltoides	11.1			Good	Multistem 8.0 Previous Tag # 424
REMOVE	197	eastern cottonwood	Populus deltoides	18.1			Good	Previous Tag # 426
REMOVE	198	eastern cottonwood	Populus deltoides	36.0			Good	Previous Tag # 425
REMOVE	199	crack willow	Salix fragilis	9.0			Good	
REMOVE	200	box elder	Acer negundo	9.0			Good	
REMOVE	201	eastern cottonwood	Populus deltoides	30.0			Good	
REMOVE	202	Siberian elm	Ulmus pumila	11.0			Good	
REMOVE	203	Siberian elm	Ulmus pumila	11.5			Good	
REMOVE	204	black walnut	Juglans nigra	9.0			Good	
REMOVE	205	black walnut	Juglans nigra	11.0			Good	
	206	black walnut	Juglans nigra	7.5			Good	
	207	black walnut	Juglans nigra	15.5			Good	
	208	black walnut	Juglans nigra	14.5			Good	
	209	black walnut	Juglans nigra	11.6			Good	
	210	box elder	Acer negundo	6.0			Good	
	211	Siberian elm	Ulmus pumila	6.0			Good	
	212	Siberian elm	Ulmus pumila	6.0			Good	
	213	Siberian elm	Ulmus pumila	7.0			Good	
	214	Siberian elm	Ulmus pumila	8.0			Good	
	215	Siberian elm	Ulmus pumila	7.0			Good	
	216	box elder	Acer negundo	6.0			Good	
	217	box elder	Acer negundo	6.4			Good	
REMOVE	218	Siberian elm	Ulmus pumila	7.1			Good	Multistem 7.0
	219	Siberian elm	Ulmus pumila	8.0			Good	Multistem 7.0 & 6.0
REMOVE	220	eastern cottonwood	Populus deltoides	16.0			Good	Multistem 9.0 Previous Tag # 430

	Tree #	Common Name	Scientific Name	DBH (inches)	Estimated Age	Estimated Height	Health	Comments
REMOVE	221	eastern cottonwood	Populus deltoides	10.4			Good	
REMOVE	222	eastern cottonwood	Populus deltoides	8.0			Good	
REMOVE	223	eastern cottonwood	Populus deltoides	11.1			Good	Multistem 10.0
REMOVE	224	eastern cottonwood	Populus deltoides	9.0			Good	
REMOVE	225	eastern cottonwood	Populus deltoides	8.0			Good	
REMOVE	226	Scots pine	Pinus sylvestris	6.0			Good	
REMOVE	227	box elder	Acer negundo	11.0			Good	Multistem 10.0 & 10.0
REMOVE	228	box elder	Acer negundo	6.0			Good	
REMOVE	229	box elder	Acer negundo	11.0			Good	
REMOVE	230	Siberian elm	Ulmus pumila	6.0			Good	
REMOVE	231	box elder	Acer negundo	6.0			Good	
REMOVE	232	eastern cottonwood	Populus deltoides	14.5			Good	Previous Tag # 438
REMOVE	233	eastern cottonwood	Populus deltoides	12.2			Good	Multistem 6.0
REMOVE	234	crack willow	Salix fragilis	7.0			Good	
REMOVE	235	crack willow	Salix fragilis	11.0			Good	Previous Tag # 440
REMOVE	236	eastern cottonwood	Populus deltoides	10.8			Good	
REMOVE	237	eastern cottonwood	Populus deltoides	21.5			Good	
REMOVE	238	eastern cottonwood	Populus deltoides	19.0			Good	
REMOVE	239	eastern cottonwood	Populus deltoides	14.5			Good	Previous Tag # 444
REMOVE	240	crack willow	Salix fragilis	10.0			Good	Previous Tag # 448
REMOVE	241	Siberian elm	Ulmus pumila	11.0			Good	Previous Tag # 447
REMOVE	242	box elder	Acer negundo	6.1			Good	
REMOVE	243	crack willow	Salix fragilis	8.2			Good	
REMOVE	244	eastern cottonwood	Populus deltoides	17.1			Good	
REMOVE	245	eastern cottonwood	Populus deltoides	13.2			Good	Previous Tag # 436
REMOVE	246	eastern cottonwood	Populus deltoides	18.2			Good	
REMOVE	247	box elder	Acer negundo	6.0			Good	
REMOVE	248	box elder	Acer negundo	17.2			Good	Previous Tag # 432
REMOVE	249	white mulberry	Morus alba	14.0			Good	Multistem 14.0
REMOVE	250	box elder	Acer negundo	8.0			Good	Previous Tag # 434
REMOVE	251	box elder	Acer negundo	24.2			Good	
REMOVE	252	box elder	Acer negundo	8.0			Good	
REMOVE	253	box elder	Acer negundo	12.0			Good	
REMOVE	254	Siberian elm	Ulmus pumila	8.0			Good	
REMOVE	255	box elder	Acer negundo	7.0			Good	
REMOVE	256	box elder	Acer negundo	6.0			Good	
REMOVE	257	box elder	Acer negundo	13.0			Good	
REMOVE	258	Siberian elm	Ulmus pumila	8.0			Good	
REMOVE	259	Siberian elm	Ulmus pumila	7.0			Good	
REMOVE	260	Siberian elm	Ulmus pumila	12.1			Good	
REMOVE	261	Siberian elm	Ulmus pumila	7.0			Good	
	262	box elder	Acer negundo	12.0			Good	Multistem 8.0, 10.0 & 11.0
	263	white mulberry	Morus alba	12.0			Good	Multistem 10.0 & 11.0
	264	white mulberry	Morus alba	6.0			Good	
	265	Siberian elm	Ulmus pumila	27.0			Good	Multistem 24.5
REMOVE	266	box elder	Acer negundo	6.0			Good	
REMOVE	267	box elder	Acer negundo	6.0			Good	
REMOVE	268	box elder	Acer negundo	6.0			Good	
REMOVE	269	box elder	Acer negundo	6.0			Good	Multistem 6.0
REMOVE	270	Siberian elm	Ulmus pumila	27.3			Good	Previous Tag # 431
REMOVE	271	box elder	Acer negundo	7.0			Good	
REMOVE	272	box elder	Acer negundo	8.0			Good	Multistem 7.0 & 6.0
REMOVE	273	Siberian elm	Ulmus pumila	6.0			Good	
	274	Siberian elm	Ulmus pumila	8.5			Good	
	275	Siberian elm	Ulmus pumila	27.0			Good	
	276	box elder	Acer negundo	6.0			Good	
	277	box elder	Acer negundo	6.0			Good	
	278	box elder	Acer negundo	8.0			Good	
	279	white mulberry	Morus alba	29.0			Good	
	280	Siberian elm	Ulmus pumila	15.2			Good	
	281	box elder	Acer negundo	9.5			Good	
	282	box elder	Acer negundo	13.1			Good	
	283	box elder	Acer negundo	9.9			Good	
	284	Siberian elm	Ulmus pumila	7.0			Good	
	285	Siberian elm	Ulmus pumila	8.0			Good	
	286	Siberian elm	Ulmus pumila	7.0			Good	
	287	Siberian elm	Ulmus pumila	7.0			Good	
	288	Siberian elm	Ulmus pumila	9.0			Good	
	289	Siberian elm	Ulmus pumila	8.0			Good	
	290	Siberian elm	Ulmus pumila	6.0			Good	
	291	box elder	Acer negundo	9.0			Good	Multistem 8.0
	292	box elder	Acer negundo	15.5			Good	
	293	box elder	Acer negundo	6.0			Good	
	294	box elder	Acer negundo	21.2			Good	
	295	Siberian elm	Ulmus pumila	8.0			Good	
	296	box elder	Acer negundo	20.0			Good	

TREE REMOVAL NOTE:
172 TREES SHALL BE REMOVED

22 REPLACEMENT TREES ARE PROPOSED.

NO MITIGATION IS PROPOSED FOR 150 REMOVED TREES.

PER TREE CONSERVATION ORDINANCE, THE 150 REGULATED TREES TO BE REMOVED A PAYMENT OF $216.75 PER TREE SHALL BE MADE INTO THE CITY'S TREE FUND.

$216.75 x 150 = $32,512.50

10 RIGHT-OF-WAY TREES CANNOT FIT DUE TO CONFLICTS THEREFORE $216.75 PER TREE SHALL BE PAID TO THE CITY TREE FUND.

$216.75 x 10 = $2,167.50

$32,512.50 + $2,167.50 = $34,680.0
TOTAL TO BE PAID TO THE CITY TREE FUND

CITY FILE #19-026
SECTION #24

REV	DATE	DESCRIPTION
5	5/27/20	CITY OF ROCHESTER HILLS PLANNING COMMISSION
4	4/30/20	CITY OF ROCHESTER HILLS PLANNING COMMISSION
3	2/19/20	REVISIONS PER CITY OF ROCHESTER HILLS REVIEW
2	1/8/20	REVISIONS PER CITY OF ROCHESTER HILLS REVIEW
1	10/21/19	REVISIONS PER CITY OF ROCHESTER HILLS REVIEW

3 WORKING DAYS BEFORE YOU DIG CALL MISS DIG 1-800-482-7171 FOR FREE LOCATION OF PUBLIC UTILITIES

SHINK ENGINEERING, PLC
4146 PINE GROVE ROAD
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lmshink@yahoo.com
586.718.1965

DATE:	5/13/19
DESIGNED BY:	LMS
DRAWN BY:	TW
CHECKED BY:	
APPROVED BY:	

NOT TO BE USED AS CONSTRUCTION DRAWINGS

TREE INVENTORY
WIEGAND RV STORAGE
1441 E HAMLIN ROAD, ROCHESTER HILLS, MI 48307

SCALE: N.T.S.
PROJECT NO.: 2015-0015
FILE NAME: HAMLIN-11.DWG
SHEET: 9 OF 12

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LEGEND

- SET IRON
- FOUND IRON
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING ELECTRIC HOOK UP
- EXISTING FIRE HYDRANT
- EXISTING GATE VALVE
- EXISTING WATER MANHOLE
- EXISTING WELL
- EXISTING CATCHBASIN
- EXISTING MANHOLE
- EXISTING R.O.W. LINE
- EXISTING WATER MAIN
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- EXISTING OVERHEAD WIRES
- EXISTING FENCE
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- EXISTING UNDERGROUND GAS MAIN
- 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
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED GRADE
- PROPOSED FLOW ARROW
- PROPOSED EVERGREEN TREE
- PROPOSED CANOPY TREE
- PROPOSED ORNAMENTAL TREE
- PROPOSED SHRUB

THE OWNER OF THE PROPERTY SHALL BE RESPONSIBLE FOR ALL MAINTENANCE OF SITE LANDSCAPING, AS FOLLOWS:

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

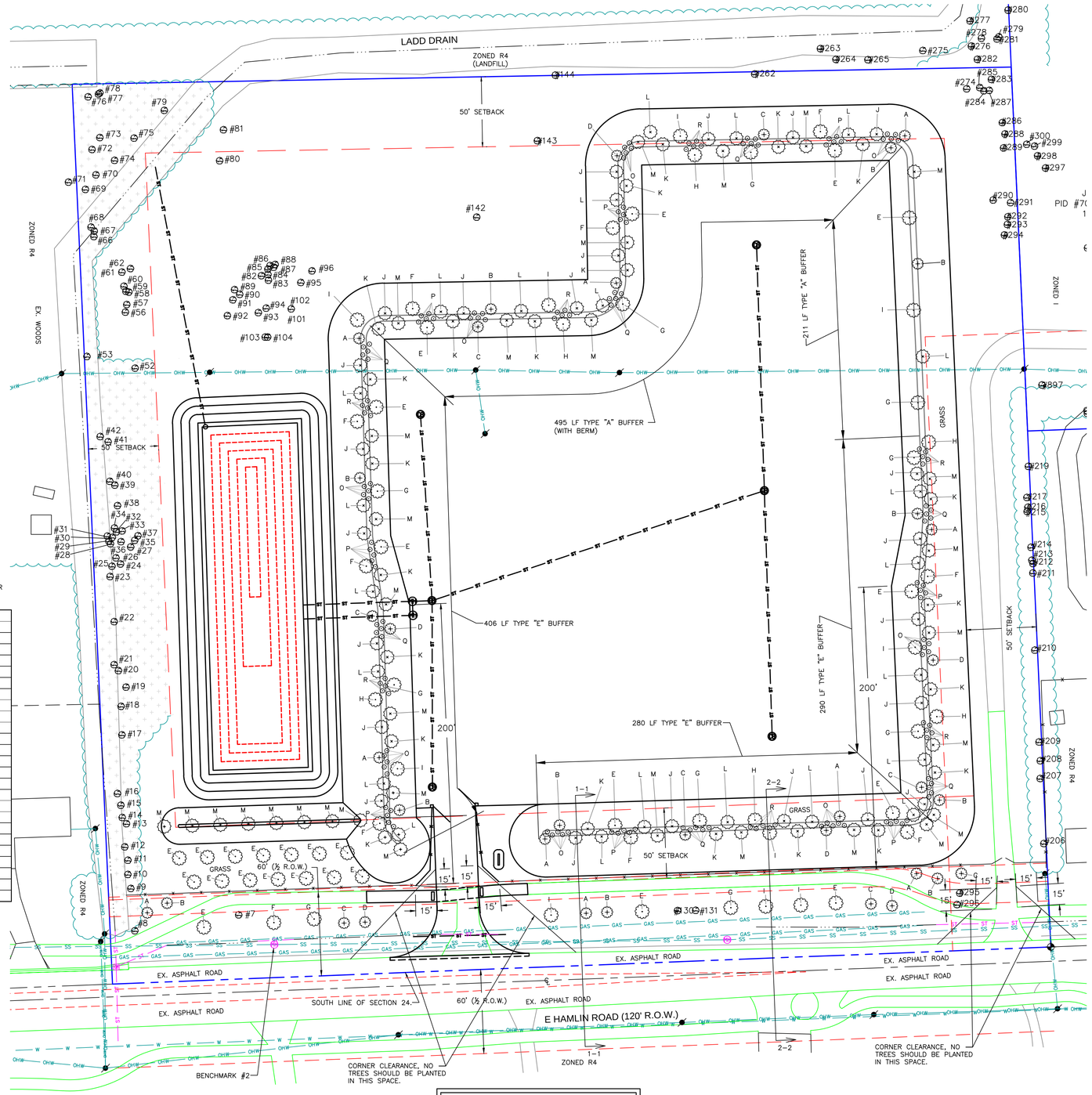
B. PRUNING SHALL BE MINIMAL AT THE TIME OF INSTALLATION, ONLY TO REMOVE DEAD OR DISEASED BRANCHES. SUBSEQUENT PRUNING SHALL ASSURE PROPER MATURATION OF PLANTS TO ACHIEVE THEIR APPROVED PURPOSE.

C. ALL DEAD, DAMAGED, OR DISEASED PLANT MATERIAL SHALL BE REMOVED IMMEDIATELY AND REPLACED WITHIN SIX (6) MONTHS AFTER IT DIES OR IN THE NEXT PLANTING SEASON, WHICHEVER OCCURS FIRST. FOR PURPOSES OF THIS SECTION, THE PLANTING SEASON FOR DECIDUOUS PLANTS SHALL BE BETWEEN MARCH 1 AND JUNE 1 AND FROM OCTOBER 1 UNTIL THE PREPARED SOIL BECOMES FROZEN. THE PLANTING SEASON FOR EVERGREEN PLANTS SHALL BE BETWEEN MARCH 1 AND JUNE 1st. 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.

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

E. 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.

LANDSCAPE NOTES:
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. (TREES MUST BE PLANTED AT LEAST 15' AWAY FROM CURB OR ROAD EDGE WHERE THE SPEED LIMIT IS MORE THAN 35 MPH.) 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. 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. 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. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM ANY FIRE 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. PRIOR TO THE RELEASE OF THE PERFORMANCE BOND, THE CITY OF ROCHESTER HILLS FORESTRY UNIT NEEDS TO INSPECT ALL TREES, EXISTING OR PLANTED, TO IDENTIFY ANY THAT POSE A HAZARD TO THE SAFE USE OF THE PUBLIC RIGHT-OF-WAY. FORESTRY MAY REQUIRE THE DEVELOPER TO REMOVE, AND POSSIBLY REPLACE, ANY SUCH TREES. THE ABOVE REQUIREMENTS ARE INCORPORATED INTO THE PLAN.



0 40 80 120
1" = 40'

BUFFER NOTES:

TYPE "A" BUFFER (PLANTINGS PER 100 FEET):
0.5 ORNAMENTAL TREES
(INSTEAD OF 4 SHRUBS)
1.5 SHADE TREES
1 EVERGREEN TREE
(TREES PLANTED AT 33.3 FEET ON CENTER)

TYPE "E" BUFFER (PLANTINGS PER 100 FEET):
1.5 ORNAMENTAL TREES
2.5 SHADE TREES
6 EVERGREENS
16 SHRUBS (EVERGREEN)
(TREES PLANTED AT 10 FEET ON CENTER)
(SHRUBS PLANTED AT 3 FEET ON CENTER)

RIGHT-OF-WAY PLANTINGS
1 ORNAMENTAL TREE PER 60 FEET
11 TREES REQUIRED
1 SHADE TREE PER 35
19 TREES REQUIRED
(TREES PLANTED IN THE ROW SHALL BE SINGLE STEM)

(10 RIGHT-OF-WAY TREES CANNOT FIT DUE TO CONFLICTS THEREFORE $216.75 PER TREE SHALL BE PAID TO THE CITY TREE FUND. ($2,167.50))

SIDE / BUFFER TYPE	LENGTH	A	B	C	D	E	F	G	H	I	J	K	L	M	O	P	Q	R
NORTH / TYPE "E"	495	2	2	2	1	3	3	2	2	2	8	8	7	7	15	15	10	10
SOUTH / TYPE "E"	280	2	1	1	1	2	2	1	1	1	4	4	5	4	10	10	5	5
EAST / TYPE "A"	211	0	1	0	0	1	0	1	0	1	0	0	1	1	0	0	0	0
EAST / TYPE "E"	290	1	2	1	1	1	1	2	3	1	4	4	4	5	5	5	10	10
WEST / TYPE "E"	406	2	2	1	1	2	2	2	2	2	6	6	6	6	11	10	10	10
RIGHT-OF-WAY	669.9	3	3	3	2	3	1	2	0	3	0	0	0	0	0	0	0	0
OTHER PLANTINGS				0		14								8				
TOTAL PLANTINGS		10	11	8	6	26	9	10	8	10	22	22	23	31	41	40	35	35

PLANNING COMMISSION CONSIDERATION:
DUE TO EXISTING TREES AND VEGETATION ON THE WEST SIDE OF THE SITE, TOGETHER WITH A 6' BERM AND TYPE "A" BUFFER, THIS SHOULD BE CONSIDERED A SUFFICIENT VISUAL BARRIER.

DUE TO THE PROPERTY ON THE NORTH SIDE OF THE SITE BEING A LANDFILL, A 6' BERM AND TYPE "A" BUFFER SHOULD BE CONSIDERED A SUFFICIENT VISUAL BARRIER.

PLANTING SCHEDULE

Symbol	Botanical Name	Common Name	NUMBER	SIZE	NOTE
	ORNAMENTAL TREES				
A	Amelanchier Canadensis	Serviceberry	10	7' ht	B&B
B	Acer Ginnala	Amur Maple	11	7' ht	B&B
C	Acer Campestre	Hedge Maple	8	7' ht	B&B
D	Cornus Mas	Cornelian Cherry	6	2" cal/7' ht	B&B
	SHADE TREES				
E	Gleditsia Triacanthos 'Skyline'	Skyline Honeylocust	26	3" cal	B&B
F	Ginkgo Biloba	Maidenhair Tree	9	3" cal	B&B
G	Betula Nigra 'Heritage'	Heritage River Birch	10	3" cal	B&B
H	Acer Rubrum 'Autumn Blaze'	Autumn Blaze Maple	8	3" cal	B&B
I	Tilia Cordata 'Greenspire'	Greenspire Linden Tree	10	3" cal	B&B
	EVERGREEN TREES				
J	Picea Abies	Norway Spruce	22	10' ht/5' spr	B&B
K	Picea Glauca 'Densata'	Black Hills Spruce	22	10' ht/5' spr	B&B
L	Abies Concolor	Concolor Fir	23	10' ht/5' spr	B&B
M	Abies Balsamea	Balsam Fir	31	10' ht/5' spr	B&B
	SHRUBS				
O	Pinus Mugo	Mugo Pine	41	30" ht/24" spd	cont
P	Juniperus Chinensis 'Sea Green'	Seagreen Juniper	40	30" ht/24" spd	cont
Q	Juniperus Virginiana 'Grey Owl'	Grey Owl Juniper	35	30" ht/24" spd	cont
R	Juniperus Tamariscifolia	Tam Juniper	35	30" ht/24" spd	cont

NOTES:

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

WATERING WILL ONLY OCCUR BETWEEN THE HOURS OF 12AM AND 5AM.

SUBSTITUTIONS MAY BE MADE DEPENDING ON AVAILABILITY. HOWEVER, TO ENSURE ADEQUATE VARIETY, AND TO AVOID MONOTONY AND UNIFORMITY WITHIN THIS SITE, REQUIRED PLANT MATERIALS, SHALL NOT INCLUDE MORE THAN TWENTY PERCENT (20%) OF ANY SINGLE PLANT SPECIES.

ALL LANDSCAPE AREAS MUST BE IRRIGATED.

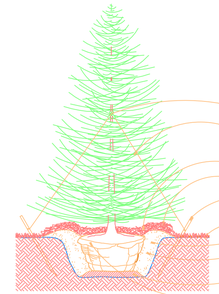
IRRIGATION OVERSPRAY SHALL NOT BROADCAST ONTO CITY PATHWAY.

ALL TREES PLANTED WITHIN THE ROW SHALL TO BE SINGLE STEM.

LANDSCAPE BUDGET ESTIMATE:

IRRIGATION SYSTEM –	$27,000
FINISHED GRADE, SEED AND STRAW BERM –	$21,735
PLANTINGS (PER PLAN) –	$146,747
TOTAL	$195,482

NOT TO BE USED AS CONSTRUCTION DRAWINGS

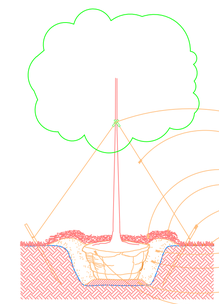


NOTES:
- TREES SHALL BE TEN FEET HIGH AND 5 FEET SPREAD
- PLANT TREE AT THE SAME GRADE AS IT WAS GROWN
- NEVER CUT CENTRAL LEADER
- PRUNE ONLY TO REMOVE DAMAGED OR BROKEN BRANCHES
- DISPOSE OF ALL NON BIODEGRADABLE MATERIAL

2 PLY REINF. HOSE \"I.D. MIN

2-#12 GALV. WIRE TWISTED STAYS OR GUYS TO BE 1/2 – 2/3 UP THE TREE

Evergreen Tree Planting
Section — No Scale



NOTES:
- SHADE TREES SHALL BE 3 CALIPER-INCHES*
- ORNAMENTAL TREES SHALL BE 2 CALIPER-INCHES* OR 6 FEET OVERALL HEIGHT
- PLANT TREE AT THE SAME GRADE AS IT WAS GROWN
- NEVER CUT CENTRAL LEADER
- PRUNE ONLY TO REMOVE DAMAGED OR BROKEN BRANCHES
- DISPOSE OF ALL NON BIODEGRADABLE MATERIAL

2 PLY REINF. HOSE \"I.D. MIN

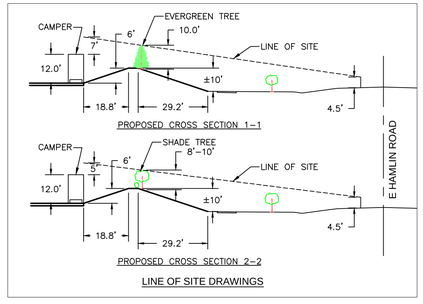
2-#12 GALV. WIRE TWISTED STAYS OR GUYS TO BE 1/2 – 2/3 UP THE TREE

*CALIPER-INCHES MEASURED TWELVE (12) INCHES ABOVE GRADE.

Deciduous Tree Planting
Section — No Scale

NOTES:
- SHRUBS SHALL BE 30 INCHES HIGH, 24 INCHES SPREAD
- PLANT TREE AT THE SAME GRADE AS IT WAS GROWN
- NEVER CUT CENTRAL LEADER
- PRUNE ONLY TO REMOVE DAMAGED OR BROKEN BRANCHES
- DISPOSE OF ALL NON BIODEGRADABLE MATERIAL

Shrub Planting
Section — No Scale



DATE:	5/13/19
DESIGNED BY:	LMS
DRAWN BY:	TW
CHECKED BY:	
APPROVED BY:	

SHINK ENGINEERING, PLC
4146 PINE GROVE ROAD
FORT GRATIOT, MI 48059
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REVISIONS			
5	5/27/20	CITY OF ROCHESTER HILLS PLANNING COMMISSION	
4	4/30/20	CITY OF ROCHESTER HILLS PLANNING COMMISSION	
3	2/19/20	REVISIONS PER CITY OF ROCHESTER HILLS REVIEW	
2	1/8/20	REVISIONS PER CITY OF ROCHESTER HILLS REVIEW	
1	10/21/19	REVISIONS PER CITY OF ROCHESTER HILLS REVIEW	

LANDSCAPE PLAN
WIEGAND RV STORAGE
1441 E HAMLIN ROAD, ROCHESTER HILLS, MI 48307

SCALE: 1" = 40'
PROJECT NO.: 2015-0015
FILE NAME: HAMLIN-11.DWG
SHEET: 10 OF 12

CITY FILE #19-026
SECTION #24

10

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LEGEND

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- FOUND IRON
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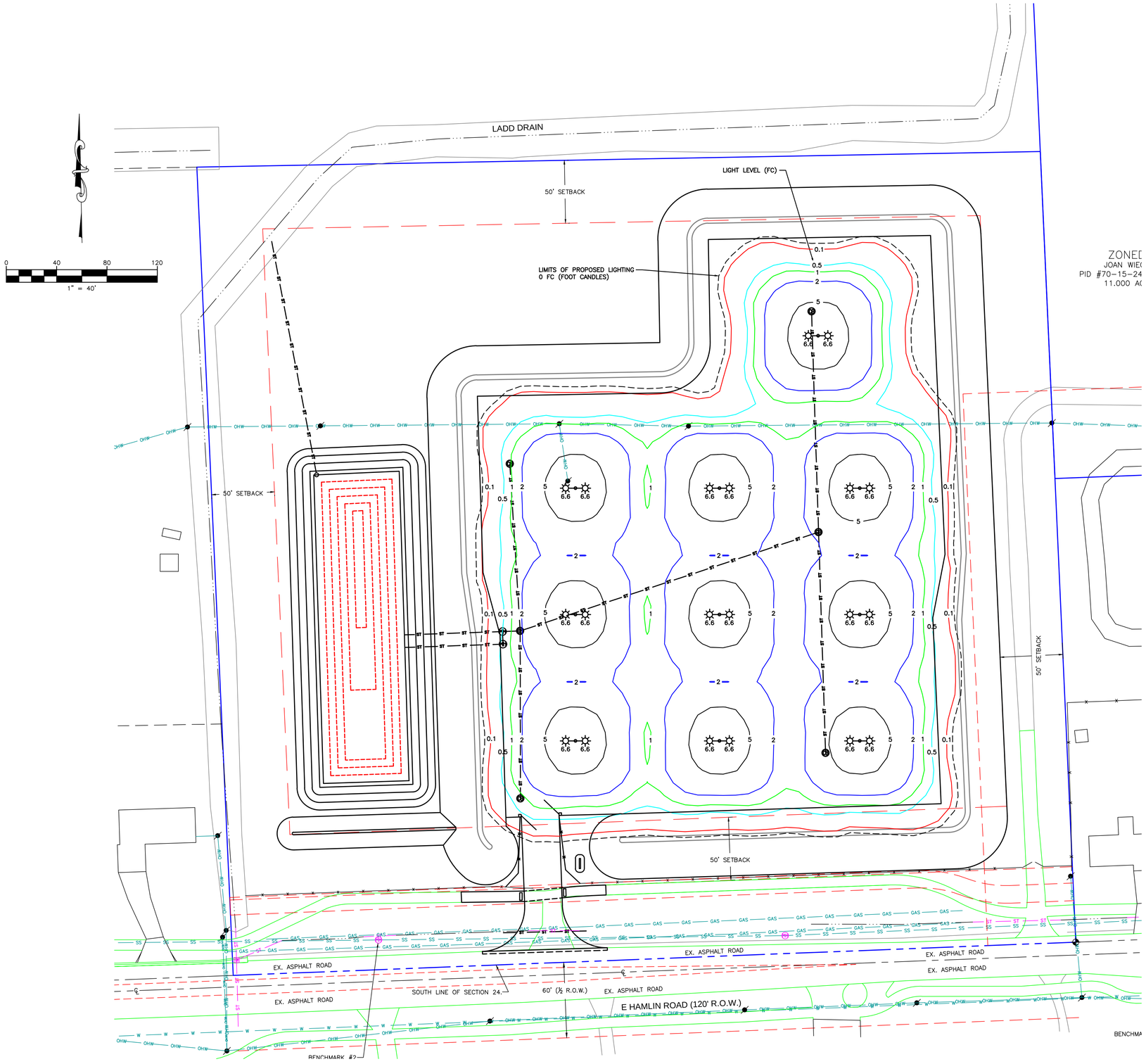
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING ELECTRIC HOOK UP
- EXISTING FIRE HYDRANT
- EXISTING GATE VALVE
- EXISTING WATER MANHOLE
- EXISTING WELL
- EXISTING CATCHBASIN
- EXISTING MANHOLE
- EXISTING R.O.W. LINE
- W — EXISTING WATER MAIN
- ST — EXISTING STORM SEWER
- SS — EXISTING SANITARY 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
- X 586.44 EXISTING GRADE
- PROPOSED GATE VALVE
- PROPOSED WATER SEE NOTE
- PROPOSED FIRE HYDRANT
- PROPOSED CATCHBASIN
- PROPOSED MANHOLE
- PROPOSED LIGHT POLE
- W — PROPOSED WATER
- ST — PROPOSED STORM SEWER
- SS — PROPOSED SANITARY SEWER
- 586.80 PROPOSED GRADE
- PROPOSED FLOW ARROW
- PROPOSED EVERGREEN TREE
- PROPOSED CANOPY TREE
- PROPOSED ORNAMENTAL TREE
- PROPOSED SHRUB



LIGHTING NOTES:
LIGHT LEVELS AS SHOWN ARE IN FOOT CANDLES (FC).

LIGHTING AS PROPOSED DOES NOT EFFECT THE R.O.W. OR PROPERTY LINES.

NOT TO BE USED AS CONSTRUCTION DRAWINGS

CITY FILE #19-026
SECTION #24

REVISIONS		
5	5/27/20	CITY OF ROCHESTER HILLS PLANNING COMMISSION
4	4/30/20	CITY OF ROCHESTER HILLS PLANNING COMMISSION
3	2/19/20	REVISIONS PER CITY OF ROCHESTER HILLS REVIEW
2	1/8/20	REVISIONS PER CITY OF ROCHESTER HILLS REVIEW
1	10/21/19	REVISIONS PER CITY OF ROCHESTER HILLS REVIEW

DATE:	5/13/19
DESIGNED BY:	LMS
DRAWN BY:	TW
CHECKED BY:	
APPROVED BY:	

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

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PHOTOMETRIC PLAN
WIEGAND RV STORAGE
1441 E HAMLIN ROAD, ROCHESTER HILLS, MI 48307

SCALE: 1" = 40'
PROJECT NO.: 2015-0015
FILE NAME: HAMLIN-11.DWG
SHEET: 11 OF 12

Atlas Lighting Products — Eagle Series

2nd Generation LED Site Lighter

3000K or warmer CCTs only

Project Information	
Job Name	
Fixture Type	Eagle Series
Catalog Number	SLPM
Approved by	

SPECIFICATIONS:

Construction:
Designed for commercial and industrial applications, providing cooler operating temperatures, brighter light and longer LED life. The die cast aluminum housing utilizes external airflow fins allow for greater heat dissipation. The easy access driver compartment is a thermally independent compartment, separate from LED generated heat, for cooler operation and longer driver life.

Optics:
Atlas Site Lighter Pro fixtures utilize precision engineered individual lenses for maximum light intensity. The lens is made of optical grade polycarbonate. Advanced one piece optic board engineered for maximum light intensity. Types II, III, V and Forward Throw distributions are available. Types II, III and Forward Throw optics are rotatable allowing for optimal placement of the fixtures on the perimeter of any layout.

Mounting:
The easy mount bracket makes installation to any style pole quick and easy. Tenon and other mounting accessories also available.
For round poles **500-SLPMRPA** is required.

Thermal Management:
Atlas Site Lighter Pro fixtures are designed as a complete system to optimize LED life and light output. The thermal stacking heat removal technology extracts heat from within the housing moving it away from LEDs and components. The lower temperatures result in long LED life (200,000+ hrs[1]) and component life and also allows for higher light output.

Listings:
Luminaire is certified to UL/cUL Standards for Wet Locations
The following qualify for DesignLights Consortium Premium:
SLPM6L (All colors/options), SLPM9L (All colors/options), SLPM12L (All colors/options), SLPM18L (All colors/options), SLPM24L (All colors/options), all other luminaires are DesignLights Consortium qualified. All are eligible for rebates from DLC member utilities.

AC Input:
120/208/240/277/347/480 V

Driver:
Constant current, 120-277 VAC, 50-60 Hz
High Efficiency – min. 88%
Off-State Power: 0 Watts
0-10 V Dimming

LEDs:
Available in 3000K, 4000K, 4500K and 5000K, CCT
Epoxy Guard™ protective conformal coated boards

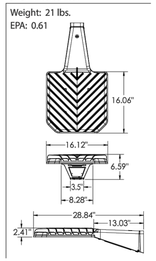
Reduced Glare:
Positioning of the LED modules within the housing result in light directed to desired locations and reduces offensive light.

Testing:
Atlas LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 & LM-80.

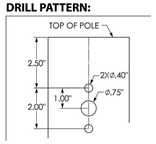
Warranty: Five-year limited warranty

DIMENSIONS:

Weight: 21 lbs.
EPA: 0.61



DRILL PATTERN:



For round poles **500-SLPMRPA** is required.

Rebates and Incentives are available in many areas.
Contact an Atlas Representative for more information.

[1]*LED Life Span Based Upon LM-80 Test Results*

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PO BOX 2348 | BURLINGTON, NC 27216
800-849-8485 | FAX: 336-227-0110 | www.atlasled.com

*The majority of Atlas Lighting Products are assembled in USA facilities by an American Workforce utilizing both Domestic and Foreign components. Meets Buy American requirements within the ARRA.

Atlas Lighting Products — Eagle Series

2nd Generation LED Site Lighter

ORDERING INFORMATION

SLPM – 9L – T3 – 4K – [ ] – [ ] – [ ] – [ ] – [ ]

PRODUCT SERIES
SLPM = 2nd Generation Site Lighter Pro

LUMEN PACKAGE
6L = 6,000 Lumens
9L = 9,000 Lumens
12L = 12,000 Lumens
18L = 18,000 Lumens
24L = 24,000 Lumens
30L = 30,000 Lumens
36L = 36,000 Lumens
43L = 43,000 Lumens

DISTRIBUTION
T2 = Type 2
T3 = Type 3
T5 = Type 5
FT = Forward Throw
T2L = Type 2 Rotated Left
T3L = Type 3 Rotated Left
FTL = Forward Throw Rotated Left
T2R = Type 2 Rotated Right
T3R = Type 3 Rotated Right
FTR = Forward Throw Rotated Right

COLOR TEMP.
3K = 3000K
4K = 4000K
45K = 4500K
5K = 5000K

VOLTAGE
Blank = 120-277
4 = 347/480

DIMMING
Blank = 0-10vdc

COLOR RENDERING
Blank = 70CRI

FIXTURE COLOR
Blank = Bronze
BK = Black
SL = Silver
WT = White

OPTIONS
PR = 7 Pin Photocell Receptacle
SP = Surge Protection
IC = Integrated Motion Control
BTM = Bluetooth Microwave Motion Control
includes photocontrol

Lumen Package	Distribution	CRI	3000K CCT Delivered Lumens	3000K CCT Efficacy (LPW)	4000K CCT Delivered Lumens	4000K CCT Efficacy (LPW)	4500K CCT Delivered Lumens	4500K CCT Efficacy (LPW)	5000K CCT Delivered Lumens	5000K CCT Efficacy (LPW)	Wattage
6L	T2	70	5908	153	6067	158	6093	159	6152	160	39
	T3	70	5824	151	5981	155	6006	155	6065	157	
	FT	70	5712	148	5866	152	5891	153	5948	154	
	T5	70	5848	152	6005	156	6031	156	6090	158	
9L	T2	70	9155	159	9401	163	9442	164	9533	166	58
	T3	70	9082	158	9326	162	9366	163	9457	164	
	FT	70	8866	154	9104	158	9144	159	9232	160	
	T5	70	9086	158	9330	162	9370	163	9461	164	
12L	T2	70	12030	160	12354	164	12407	165	12527	167	75
	T3	70	11900	159	12220	163	12272	164	12391	165	
	FT	70	11670	156	11984	160	12035	160	12152	162	
	T5	70	11950	159	12271	164	12324	164	12444	166	
18L	T2	70	17840	155	18320	159	18398	160	18577	162	115
	T3	70	17810	155	18289	159	18367	160	18546	161	
	FT	70	17340	151	17806	155	17883	156	18056	157	
	T5	70	17820	155	18299	159	18378	160	18556	161	
24L	T2	70	23640	148	24276	152	24380	153	24616	154	160
	T3	70	23620	148	24255	152	24359	153	24596	154	
	FT	70	23030	144	23650	148	23751	149	23981	150	
	T5	70	23660	148	24296	152	24401	153	24637	154	
30L	T2	70	29450	140	30242	144	30372	145	30666	146	210
	T3	70	29440	140	30232	144	30361	145	30656	146	
	FT	70	28750	137	29523	141	29650	141	29937	143	
	T5	70	29470	141	30263	144	30392	145	30687	146	
36L	T2	70	35260	133	36208	137	36364	137	36716	139	265
	T3	70	35220	133	36167	137	36322	137	36675	139	
	FT	70	34490	131	35418	134	35570	135	35914	136	
	T5	70	35200	133	36147	137	36302	137	36654	139	
43L	T2	70	42200	121	43335	124	43521	125	43943	126	348
	T3	70	41940	120	43068	124	43253	124	43672	125	
	FT	70	41300	118	42411	122	42593	122	43006	123	
	T5	70	41970	120	43099	124	43284	124	43703	125	

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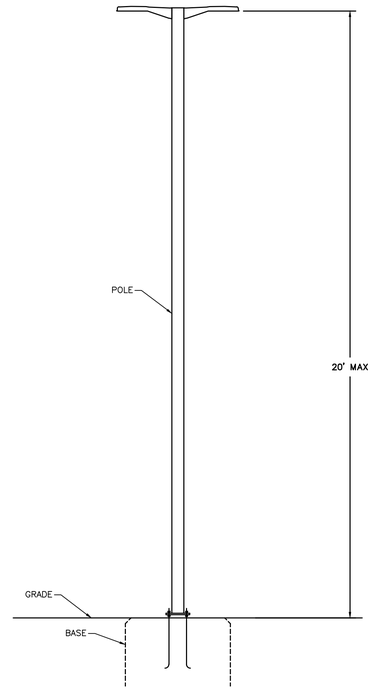


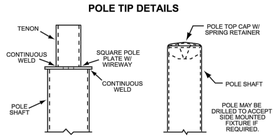
Atlas Lighting Products

CATALOG NUMBER:	
JOB NAME:	
CUSTOMER NAME:	
NOTES:	TYPE:
	DATE:

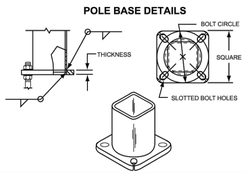
FEATURES AND SPECIFICATIONS

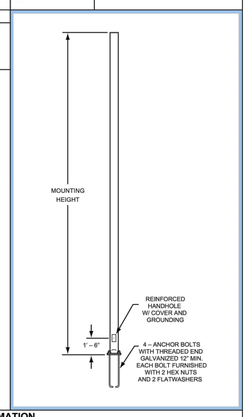
AREA LIGHTING
POLES
SQUARE STRAIGHT STEEL POLES

POLE TIP DETAILS



POLE BASE DETAILS





ORDERING INFORMATION

Nominal Mounting Height (ft)	Catalog Number	Shaft: Base O.D. (in)	Shaft: Wall Thk. (ga)	Shaft: Gross Weight (lbs)	Pole Base: Bolt Circle Range*	Pole Base: Plate Width (in)	Pole Base: Plate Thk. (in)	Maximum Loading: 90MPH EPA (ft²)	100MPH EPA (ft²)	110MPH EPA (ft²)	120MPH EPA (ft²)
12	SSS12411BZ	4.00	11	90	8 to 11	8.0	0.75	23.0	18.2	14.6	11.7
14	SSS14411BZ	4.00	11	105	8 to 11	8.0	0.75	18.7	14.5	11.5	9.1
16	SSS16411BZ	4.00	11	120	8 to 11	8.0	0.75	15.1	11.5	8.9	6.9
18	SSS18411BZ	4.00	11	135	8 to 11	8.0	0.75	12.2	9.1	6.8	5.1
20	SSS20411BZ	4.00	11	150	8 to 11	8.0	0.75	9.5	6.9	4.9	3.4
20	SSS20507BZ	5.00	7	250	9 to 11	11.0	1.00	30.5	23.7	18.6	14.7
20	SSS20511BZ	5.00	11	180	9 to 11	11.0	0.75	20.0	14.9	11.5	8.8

*-Consult Factory for Specific Bolt Circle Measurements.

Continued →

Actual performance can vary depending on operating conditions. Specifications are subject to change without notice.

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L

Atlas Lighting Products

AREA LIGHTING
POLES
SQUARE STRAIGHT STEEL POLES

ORDERING INFORMATION CONTINUED

Nominal Mounting Height (ft)	Catalog Number	Shaft: Base O.D. (in)	Shaft: Wall Thk. (ga)	Shaft: Gross Weight (lbs)	Pole Base: Bolt Circle Range*	Pole Base: Plate Width (in)	Pole Base: Plate Thk. (in)	Maximum Loading: 90MPH EPA (ft²)	100MPH EPA (ft²)	110MPH EPA (ft²)	120MPH EPA (ft²)
25	SSS25411BZ	4.00	11	188	8 to 11	8.0	0.75	9.3	6.4	4.3	2.6
25	SSS25407BZ	4.00	7	250	8 to 11	8.0	0.75	11.2	8.0	5.5	3.7
25	SSS25511BZ	5.00	11	225	9 to 11	11.0	0.75	16.0	11.4	8.0	5.6
25	SSS25507BZ	5.00	7	313	9 to 11	11.0	1.00	34.0	26.2	20.0	15.9
30	SSS30407BZ	4.00	7	300	8 to 11	8.25	0.75	6.5	3.7	1.8	0.3
30	SSS30507BZ	5.00	7	375	9 to 11	11.0	1.00	24.1	17.5	13.0	9.4
30	SSS30607BZ	6.00	7	462	12	12.5	1.00	34.3	25.8	19.4	14.6
35	SSS35607BZ	6.00	7	539	12	12.5	1.00	24.8	17.7	12.2	8.4

*-Consult Factory for Specific Bolt Circle Measurements.

ORDERING INFORMATION

S – S – S – 20 – 4 – 11 – T – [ ] – BZ – 3

SHAPE
S = Square
R = Round

SHAFT
S = Straight
T = Tapered

STRUCTURE
S = Steel
A = Aluminum
C = Concrete
F - Fiberglass

HEIGHT (FT)*
18 = 18 ft
20 = 20 ft
25 = 25 ft
30 = 30 ft
*Other sizes available

DIAMETER/ WIDTH (IN)*
4 = 4 in
5 = 5 in
6 = 6 in
*Other sizes available

GAUGE (IN)
11 = 11 in
07 = 07 in

TENON DETAIL
T = Welded
Blank = None

BASE DETAIL
E = Embedded
Blank = Anchor

COLOR*
BZ = Bronze
W = White
S = Annodized Silver
B = Black

DRILL PATTERN
1 = 1
2 = 2 @ 90°
3 = 2 @ 180°
4 = 3 @ 90°
5 = 4 @ 90°
6 = Drop Mount

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NOT TO BE USED AS CONSTRUCTION DRAWINGS

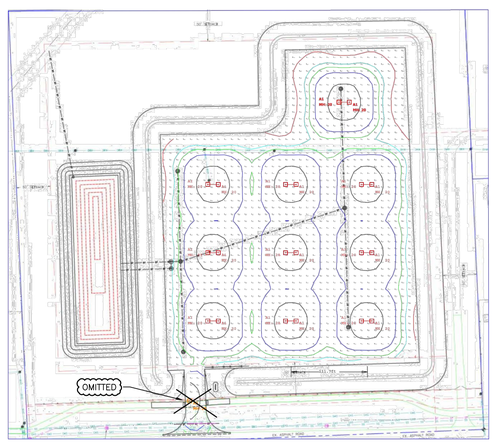
Atlas American Lighting

Fixture Summary			
Symbol	Label	Qty	Part #
	A1	10	SLPM18LT545K(Back to Back)
	A2	1	SLPM18LT345K

OMITTED

Calculation Summary				
Label	Avg	Max	Min	Height
Lot	2.45	~~10.0~~	0.0	0

THIS CAME FROM A2, (TO BE OMITTED), NEW MAX 6.6 FC



Note: Layout is based on information provided and should not be used as an as-built construction document. A Professional Architect, Engineer, or Contractor must determine if layout will work with current or future site conditions. Illumination levels can vary due to unforeseen site conditions such as major light obstructions (i.e.- Trees, Indoor racking, etc.) Part #'s shown on this layout are standard and may not include additional options (i.e - voltage, color, photocell, etc.) or mounting bracketry, those items should be addressed via quote before a order is placed.

CITY FILE #19-026
SECTION #24

REV	DATE	DESCRIPTION	BY
5	5/27/20	CITY OF ROCHESTER HILLS PLANNING COMMISSION	
4	4/30/20	CITY OF ROCHESTER HILLS PLANNING COMMISSION	
3	2/19/20	REVISIONS PER CITY OF ROCHESTER HILLS REVIEW	
2	1/8/20	REVISIONS PER CITY OF ROCHESTER HILLS REVIEW	
1	10/21/19	REVISIONS PER CITY OF ROCHESTER HILLS REVIEW	

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12