HAMPTON MANOR VAN BUREN TOWNSHIP

SENIOR ASSISTED LIVING COMMUNITY

PART OF THE NORTHWEST 1/4 OF SECTION 14, TOWN 3 SOUTH, RANGE 8 EAST, VAN BUREN TOWNSHIP, WAYNE COUNTY, MICHIGAN

LOCATION MA

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SEDIMENTATION CONTROL DETAILS

.. VAN BUREN CHARTER TOWNSHIP MISCELLANEOUS DETAILS

DEVELOPER: VAN BUREN INVESTORS LAND HOLDINGS, LLC ZOHAIB SYED 1451 S. GRATIOT AVENUE CLINTON TOWNSHIP, MI 48035 989-708-1878 zohaibsyed2001@yahoo.com

FINAL CERTIFICATE OF OCCUPANCY.

AT & T

CABLE COMPANY

STATE LICENSING

1. HAMPTON MANOR OF VAN BUREN TOWNSHIP IS A PROPOSED SENIOR ASSISTED LIVING COMMUNITY THAT WILL INCLUDE A DINING AREA, SALON, ACTIVITY CENTER, FITNESS ROOM, TELEVISION ROOM, AND LANDSCAPED COURTYARDS WITHIN THE BUILDING AND WALKING AREAS AND LANDSCAPED GARDEN AREAS WITH BENCHES AND OPEN SPACES OUTSIDE THE BUILDING.

2. ALL ONSITE DEBRIS SHALL BE REMOVED WEEKLY OR AS NEEDED. 3. PAVED SURFACES, WALKWAYS, SIGNS, LIGHTING AND OTHER STRUCTURES AND SURFACE SHALL BE MAINTAINED IN A SAFE, ATTRACTIVE CONDITION AS ORIGINALLY DESIGNED AND CONSTRUCTED. PARKING LOT STRIPING AND MARKINGS SHALL BE MAINTAINED IN A CLEARLY VISIBLE CONDITION.

4. ALL AREAS NOT BUILT OR PAVED UPON SHALL BE SODDED OR SEEDED AND IRRIGATED. . THERE SHALL BE NO OUTSIDE STORAGE. 6. THERE SHALL BE NO STORAGE, LOADING, DISPOSAL, OR TRANSFER OF ANY HAZARDOUS/TOXIC WASTE (GAS, OIL, TRANSMISSION FLUID, LUBRICANTS, SOLVENTS,

FIRE DEPARTMENT NOTES:

1. THE PROPOSED FIRE DEPARTMENT CONNECTION IS LOCATED ON THE NORTH WALL NEAR

THE EAST CORNER OF THE BUILDING. 2. THE FIRE DEPARTMENT CONNECTION SHALL BE A 4 INCH STORTZ FITTING WITH A 30 DEGREE DOWNTURN AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

FIRE HYDRANTS SHALL BE TWO 4 INCH STORTZ CONNECTIONS NOT THREADED. 4. THE BUILDING SHALL BE PROVIDED WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA13, STANDARD FOR THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS. 5. THE ARCHITECT AND FIRE DEPARTMENT SHALL COORDINATE FOR THE LOCATION OF A

KNOX BOX ELOCK SYSTEM. 6. EMERGENCY RESPONDER RADIO COVERAGE SYSTEM IS REQUIRED UNLESS IT CAN BE PROVEN AFTER BUILDING IS CONSTRUCTED AND OCCUPIED THAT COVERAGE IS SUFFICIENT. THIS WILL BE VERIFIED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO

PLAN SUBMITTAL, REVIEWS AND PERMITS AGENCY PERMIT SENT APPROVED RECEIVED VAN BUREN TOWNSHIP PLANNING 11-06-19 12-29-19 07-06-2020 AND ECONOMIC DEVELOPMENT VAN BUREN TOWNSHIP FIRE DEPARTMENT 11-06-19 VAN BUREN TOWNSHIP 11-06-19 9-25-2020 ENGINEERING-CONSULTING ENGINEERS WAYNE COUNTY DEPT. OF PUBLIC SERVICES 9-25-2020 11-06-19 (STORM WATER AND ROADS) 03-17-21 04-06-2021 WAYNE COUNTY DEPT. OF PUBLIC SERVICES 11-06-19 11-21-19 19-329 ENGINEERING-SOIL EROSION EGLE-WATER PERMIT DTE ENERGY (ELECTRIC) 10-23-19 DTE ENERGY (GAS) 11-26-19

(EX. MAPS)

(EX. MAPS)

WAYNE COUNTY BIG OND DIAN DEVIEW

11-19-19

Revisions:	Lehner Associates, Inc.	Scale:
09-16-20 REV PER WCDPS L.A. 04-01-21 REV PER WCDPS L.A. 05-19-21 REV PER OHM FOR WCDPS L.A.	Civil Engineers Surveying Planning Consulting	NO SCALE Paper Size: 24"x36"
	17001 Nineteen Mile Road, Suite 3 Clinton Township, Michigan 48038	Date: 11-06-19
	o: 586.412.7050 f: 586.412.7114 www.lehnerassociates.com	Drawn By: L.A.
Client:	HAMPTON MANOR	Checked By: W.J.T.
SYED IMRAN LAND HOLDING LLC ZOHAIB SYED 1451 S. GRATIOT AVENUE	OF VAN BUREN TOWNSHIP	Job No.: 19-249
CLINTON TOWNSHIP, MI 48035 989-708-1878 zohaibsyed2001@yahoo.com	COVER SHEET	Sheet No.
	PART OF THE NORTHWEST 1/4 OF SECTION 14, TOWN 3, SOUTH, RANGE 8 EAST, VAN BUREN TOWNSHIP, WAYNE COUNTY, MICHIGAN	01

(586) 412-7050 EXT. 106 bill@la-eng.com

17001 NINETEEN MILE ROAD, SUITE 3

CLINTON TOWNSHIP, MICHIGAN 48038

DESCRIPTIONS ARE PREPARED FROM EXISTING VAN BUREN TOWNSHIP TAX RECORDS. ALL PARCELS SHALL BE COMBINED AFTER PURCHASE OF PROPERTY IS COMPLETED. PARCEL 1: PARCEL #83-054-99-0012-000 PART OF THE NORTHWEST 1/4 OF SECTION 14, TOWN 3 SOUTH, RANGE 8 EAST, BEGINNING SOUTH 333 FEET FROM THE NORTHWEST CORNER OF SECTION 14; THENCE NORTH 89 DEGREES 00 MINUTES EAST 248 FEET; THENCE NORTH 333 FEET; THENCE NORTH 89 DEGREES 00 MINUTES EAST 150 FEET; THENCE SOUTH 258 FEET; THENCE NORTH 89 DEGREES 00 MINUTES EAST 150 FEET; THENCE SOUTH 294.87 FEET; THENCE SOUTH 89 DEGREES 00 MINUTES WEST 548 FEET; THENCE NORTH 219.87 FEET TO THE POINT OF BEGINNING. 4.18 ACRES.

LEHNER ASSOCIATES, INC.

WILLIAM J. THOMPSON, PE

ENGINEER:

PARCEL 2: PARCEL #83-054-99-0013-000 PART OF THE NORTHWEST 1/4 OF SECTION 14, TOWN 3 SOUTH, RANGE 8 EAST, BEGINNING NORTH 89 DEGREES 00 MINUTES EAST 398 FEET FROM THE NORTHWEST CORNER OF SECTION 14; THENCE NORTH 89 DEGREES 00 MINUTES EAST 150 FEET; THENCE SOUTH 258 FEET; THENCE SOUTH 89 DEGREES 00 MINUTES WEST 150 FEET; THENCE NORTH 258 FEET TO THE POINT OF BEGINNING. 0.89 ACRES.

PARCEL 3: PARCEL #83-054-99-0014-701 PART OF THE NORTHWEST 1/4 OF SECTION 14, TOWN 3 SOUTH, RANGE 8 EAST, BEGINNING SOUTH 60 FEET AND NORTH 89 DEGREES EAST 60 FEET FROM THE NORTHWEST CORNER OF SECTION 14: THENCE SOUTH 123 FEET; THENCE NORTH 89 DEGREES EAST 188 FEET; THENCE NORTH 123 FEET; THENCE SOUTH 89 DEGREES WEST 188 FEET TO THE POINT OF BEGINNING. 0.53 ACRES.

PARCEL 4: PARCEL #83-054-99-0015-701 PART OF THE NORTHWEST 1/4 OF SECTION 14, TOWN 3 SOUTH, RANGE 8 EAST, BEGINNING SOUTH 183 FEET FROM THE NORTHWEST CORNER OF SECTION 14; THENCE NORTH 89 DEGREES 00 MINUTES EAST 248 FEET; THENCE SOUTH 150 FEET; THENCE SOUTH 89 DEGREES 00 MINUTES WEST 248 FEET; THENCE NORTH 150 FEET TO THE POINT OF BEGINNING EXCEPT THE WEST 60 FEET THEREOF. 0.65

PARCEL 5: PARCEL #83-054-99-0016-002 PART OF THE NORTHWEST 1/4 OF SECTION 14, TOWN 3 SOUTH RANGE 8 EAST, BEGINNING DUE SOUTH 672.10 FEET AND NORTH 90 DEGREES EAST 232 FEET FROM THE NORTHWEST CORNER OF SECTION 14; THENCE NORTH 89 DEGREES EAST 176 FEET; THENCE DUE NORTH 119.23 FEET; THENCE SOUTH 89 DEGREES WEST 176 FEET; THENCE DUE SOUTH 119.23 FEET TO THE POINT OF BEGINNING.

PARCEL 6: PARCEL #83-054-99-0016-003 PART OF THE NORTHWEST 1/4 OF SECTION 14, TOWN 3 SOUTH, RANGE 8 EAST, BEGINNING DUE SOUTH 672.10 FEET AND NORTH 90 DEGREES EAST 408 FEET FROM THE NORTHWEST CORNER O SECTION 14; THENCE NORTH 89 DEGREES EAST 140 FEET; THENCE DUE NORTH 119.23 FEET; THENCE SOUTH 89 DEGREES WEST 140 FEET; THENCE DUE SOUTH 119.23 FEET TO THE POINT OF BEGINNING. 0.38 ACRES.

EXISTING UTILITY COMPANIES: DTE ENERGY (ELECTRIC)

EVENT #55495158 PLANNING AND DESIGN-SOUTHWEST-WESTERN WAYNE 8001 HAGGERTY ROAD BELLEVILLE, MI 48111 PH. 734.397.4321

DTE ENERGY (GAS) CHRISTOPHER BURKHART 8001 HAGGERTY ROAD BELLEVILLE, MI 48111 PH. 734.544.7809 COMCAST COMPANY JAMES STITZEL 6095 WALL STREET STERLING HEIGHTS, MI 48049 PH. 586.883.7263

DIANE ROEHM 100 SOUTH MAIN MOUNT CLEMENS, MI 48043 PH. 586.433.6305

PH. 734.727.7400

WAYNE COUNTY ENVIRONMENTAL HEALTH DEPARTMENT SEPTIC TANK REMOVAL/ABANDONMENT DAVID WILSON 33030 VAN BORN WAYNE, MI 48184

THE FOLLOWING STIPULATIONS ARE AN INTEGRAL PART OF THE CONTRACT

WHERE DATA RESPECTING EXISTING CONDITIONS IS PROVIDE OR MENTIONED IN THE CONTRACT, DOCUMENTS AND PLANS SUCH IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR, AND ARE NOT A GUARANTEE OF CONDITIONS.

THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE SUFFICIENCY OF SUCH DATA; AND SHALL HIMSELF MAKE ALL INVESTIGATIONS NECESSARY SO THAT HIS BOND SHALL BE BASED SOLELY UPON HIS KNOWLEDGE AND ESTIMATION OF CONDITIONS TO BE MET.

THE CONTRACTOR SHALL MAKE ALL INVESTIGATIONS NECESSARY TO INFORM HIMSELF THOROUGHLY REGARDING THE AVAILABILITY OF ALL FACILITIES WHICH WILL BE REQUIRED IN PERFORMANCE OF THE WORK, INCLUDING FACILITIES FOR THE DELIVERY OF MATERIALS AND

NO PLEA OF IGNORANCE OF EXISTING CONDITIONS, OR OF FAILURE TO ANTICIPATE DEVELOPMENTS WHICH MAY OCCUR BECAUSE OF EXISTING CONDITIONS, OR OF IGNORANCE OF CONDITIONS OF DIFFICULTIES THAT MAY BE ENCOUNTERED IN THE PROSECUTION OF THE WORK DUE TO EXISTING CONDITIONS OR TO REQUIREMENTS OF THE CONTRACT DOCUMENTS, SHALL RELIEVE THE CONTRACTOR OF THE OBLIGATION TO FULFILL IN EVERY DETAIL ALL THE REQUIREMENTS OF THE CONTRACT DOCUMENTS NOR SHALL THEY CONSTITUTE A BASIS FOR ANY CLAIMS WHATSOEVER FOR EXTRA COMPENSATION OR EXTENSION OF TIME.

ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS, SPECIFICATIONS AND GENERAL CONDITIONS OF VAN BUREN TOWNSHIP AND WAYNE

THE DEVELOPER IS RESPONSIBLE FOR RESOLVING ANY DRAINAGE PROBLEMS ON ADJACENT PROPERTIES WHICH ARE THE RESULT OF THE DEVELOPERS'

ALL WATER MAINS, SANITARY SEWERS, (AND LEADS) AND STORM SEWERS UNDER PROPOSED OR EXISTING PAVEMENT OR WITHIN INFLUENCE OF PAVEMENT (EXTENDING 3' BEYOND EDGE OF PAVEMENT THEN TAPERING TO ORIGINAL GROUND AT 1:1 SLOPE) SHALL BE SAND BACKFILLED AND COMPACTED TO 95% OPTIMUM (PROCTOR) DENSITY. ALL UTILITY CROSSINGS SHALL BE SAND BACKFILLED. SAND BACKFILLING IS INCIDENTAL TO UNIT PRICES.

BEFORE YOU DIG CALL MISS DIG 1-800-482-7171 TOLL FREE FOR THE LOCATION OF UNDERGROUND FACILITIES

RAILROAD SPIKE IN UTILITY POLE ELEVATION=682.28 (NAVD88)

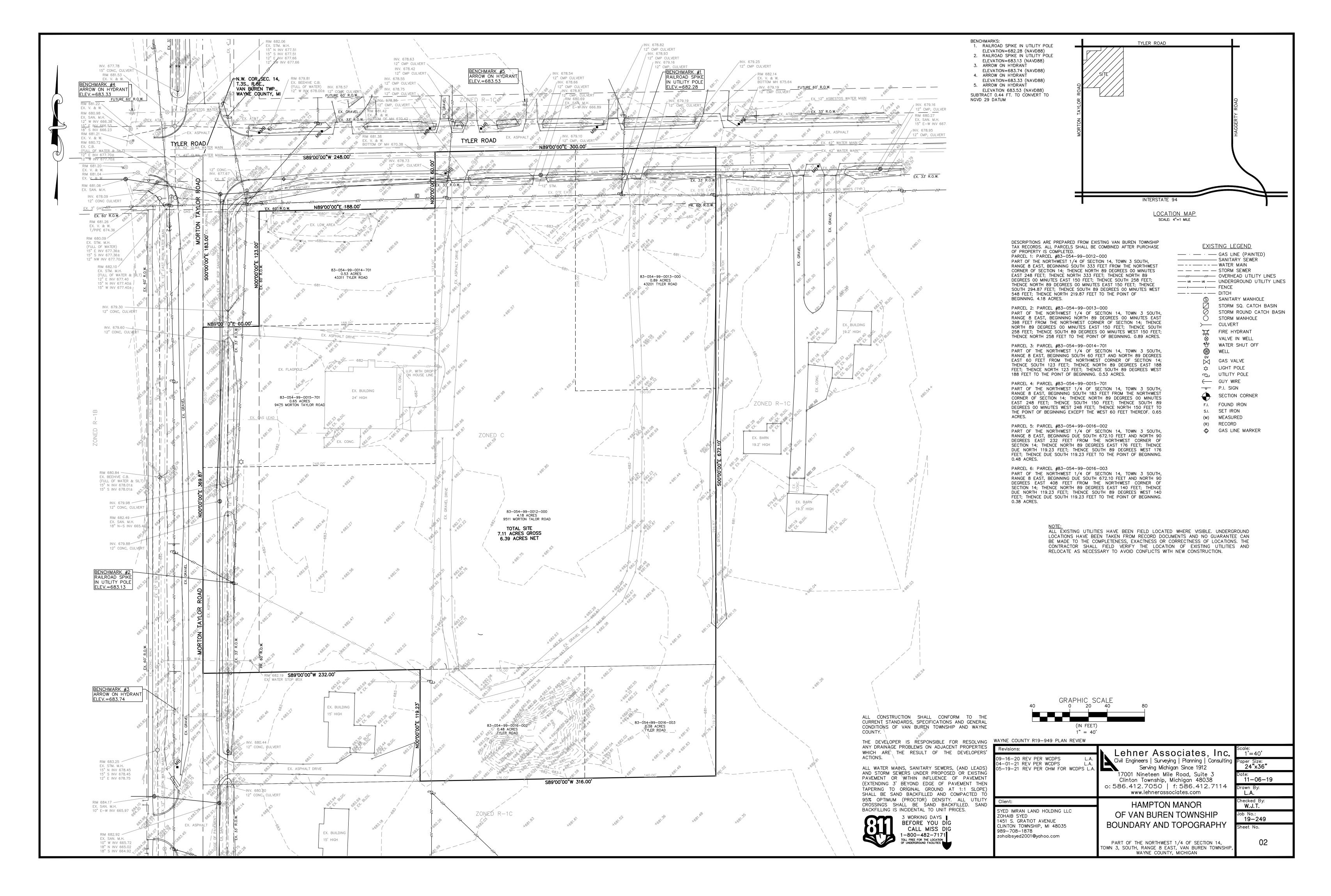
RAILROAD SPIKE IN UTILITY POLE FLEVATION=683.13 (NAVD88) 3. ARROW ON HYDRANT

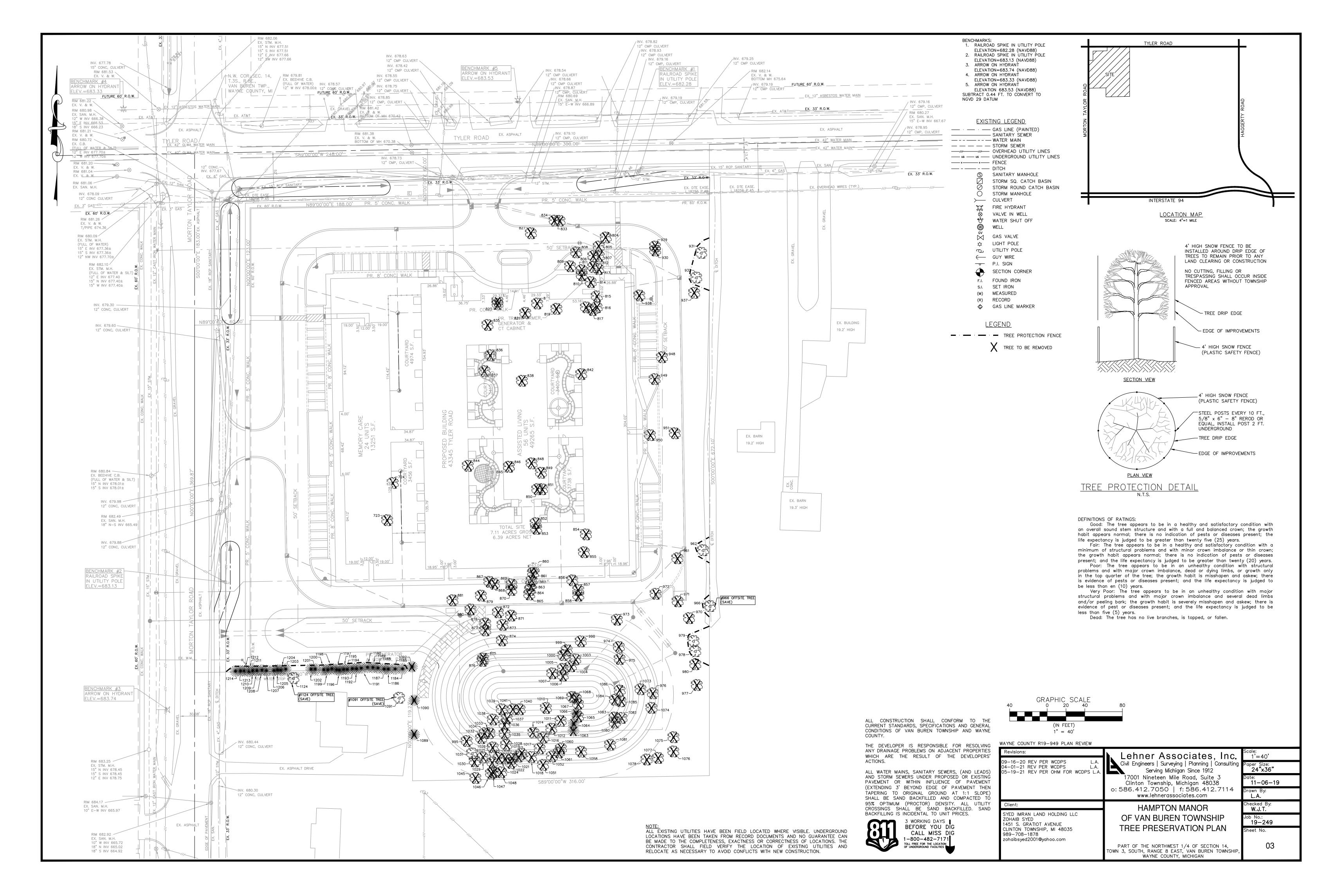
ELEVATION=683.74 (NAVD88)

4. ARROW ON HYDRANT ELEVATION=683.33 (NAVD88)

5. ARROW ON HYDRANT ELEVATION 683.53 (NAVD88) SUBTRACT 0.44 FT. TO CONVERT TO

NGVD 29 DATUM





/19-249\Drafting & Engineering\Engineering\19-249-01-08-SitePlan.dwg, 03-Tree, 5/19/2021 10:03:53 AM, laura

:49\Drafting & Engineering\Engineering\19-249-01-08-SitePlan.dwg, 04-Tree List, 5/19/2021 10:17:23 AM, laura.ambros
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724 682.21 4649.08 5210.79 7" SUGAR MAPLE G REMOVE REGULATED 804 681.42 4910.38 5437.58 10" RED MAPLE G REMOVE REGULATED	806 681.65 4890.56 5424.25 10" HONEY L	_OCUST G	REMOVE	REGULATED
724 682.21 4649.08 5210.79 7" SUGAR MAPLE G REMOVE REGULATED	805 681.70 4900.68 5430.07 10" HONEY L	_OCUST G	REMOVE	REGULATED
	804 681.42 4910.38 5437.58 10" RED M	IAPLE G	REMOVE	REGULATED
723 682.59 4609.42 5204.87 15" HONEY LOCUST G REMOVE REGULATED	724 682.21 4649.08 5210.79 7" SUGAR M	MAPLE G	DEMOVE	REGGEATED
	723 682.59 4609.42 5204.87 15" HONEY L			RECULATED
OINT ELEVATION NORTHING EASTING DESCRIPTION CONDITION REMOVE/SAVE REGULATED/UNREGULATE		LOCUSI G	REMOVE	

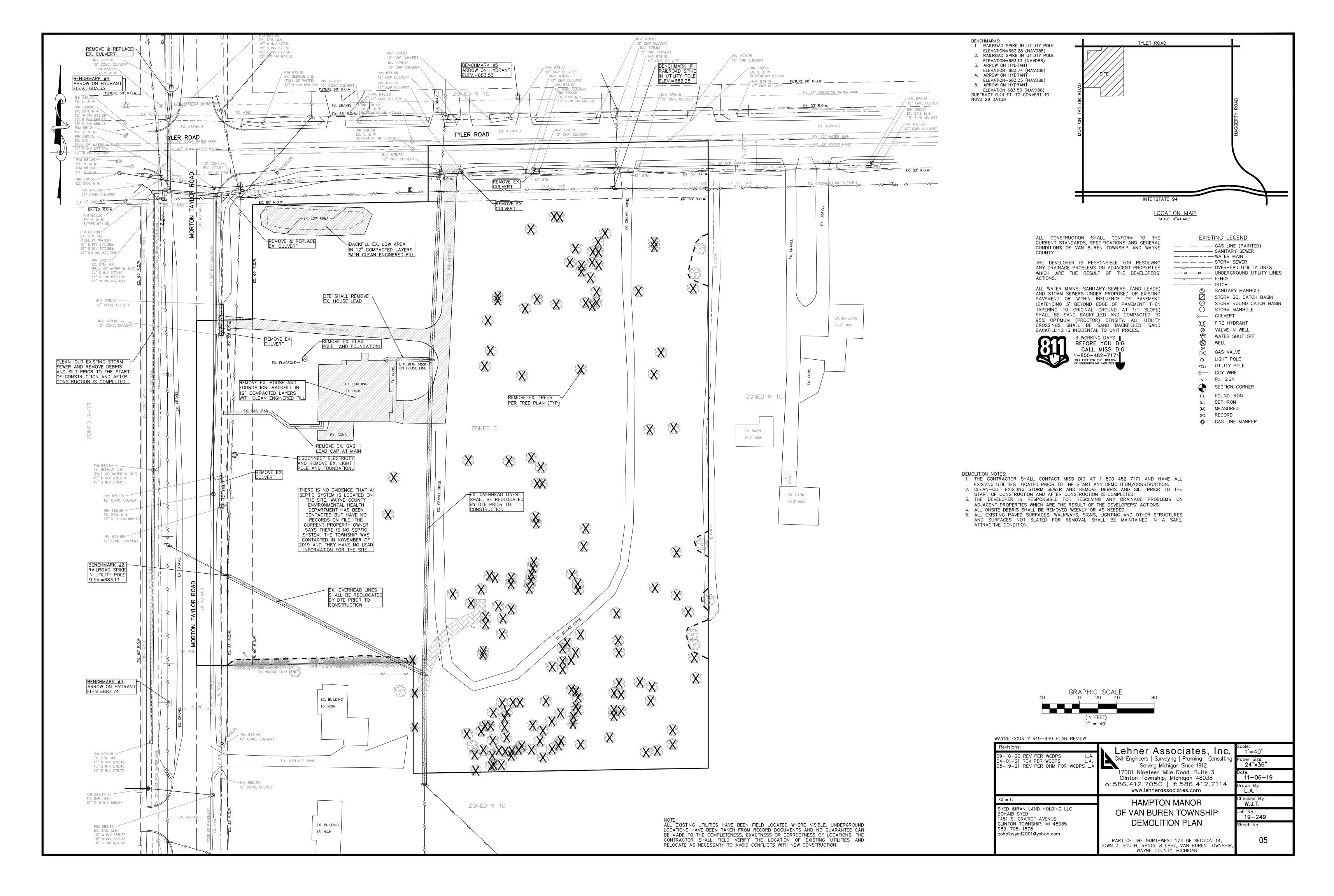
				TREE LIST			
			1	LEGEND: G=GOOD, F=FAIR, P=I			
POINT	ELEVATION	NORTHING	EASTING	DESCRIPTION	CONDITION	REMOVE/SAVE	REGULATED/UNREGULATE
929	681.63	4900.68	5489.96	7" BOX ELDER	F	REMOVE	UNREGULATED
930	681.61	4896.49	5490.06	2-7" BOX ELDER	F	REMOVE	UNREGULATED
931	681.34	4894.03	5539.03	18" HONEY LOCUST	G	SAVE	REGULATED
932	681.53	4867.76	5533.80	7" SUGAR MAPLE	G	SAVE	REGULATED
937	681.39	4851.44	5531.62	2-5" APPLE	F	SAVE	REGULATED
938	681.04	4848.63	5473.24	12" BOX ELDER	F	REMOVE	UNREGULATED
948	681.54	4782.88	5497.33	5&6" BOX ELDER	F	REMOVE	UNREGULATED
949	681.76	4759.58	5489.51	5" APPLE	Р	REMOVE	REGULATED
950	681.45	4700.03	5484.60	14" BOX ELDER	F	REMOVE	UNREGULATED
951	681.34	4701.98	5510.92	2-12&8" BOX ELDER	F	REMOVE	UNREGULATED
961	681.50	4568.92	5513.65	7" APPLE	Р	REMOVE	UNREGULATED
962	680.74	4577.51	5541.09	6" RED OAK	G	SAVE	REGULATED
966	680.55	4518.07	5548.45	2-5" WHITE ASH	F	SAVE	UNREGULATED/OFFSITE
970	681.06	4505.19	5526.07	5" HAWTHORN	G	REMOVE	REGULATED
971	681.76	4523.05	5513.97	6" HAWTHORN	G	REMOVE	REGULATED
972	682.07	4531.06	5490.56	6" SUGAR MAPLE	F	REMOVE	UNREGULATED
973	682.38	4503.52	5449.34	5&6" HONEY LOCUST	P	REMOVE	UNREGULATED
974	682.21	4474.50	5451.42	3-9" RED MAPLE	G	REMOVE	REGULATED
975	682.31	4461.71	5452.28	12" RED MAPLE	G	REMOVE	REGULATED
976	681.74	4425.14	5487.57	2-5" HAWTHORN	F	REMOVE	REGULATED
977	681.08	4433.99	5534.40	6&10" RED MAPLE	G	REMOVE	REGULATED
978	681.16	4470.06	5532.75	13" RED MAPLE	G	SAVE	REGULATED
979	681.16	4480.89	5530.84	6" RED MAPLE	F	SAVE	REGULATED
980	681.16	4456.06	5532.75	5&7" RED OAK	G	REMOVE	REGULATED
995	682.67	4374.35	5289.50	6" SILVER MAPLE	G	REMOVE	UNREGULATED
998	682.52	4480.56	5410.91	6" EASTERN COTTONWOOD	G	REMOVE	UNREGULATED
999	682.53	4471.01	5395.96	5" EASTERN COTTONWOOD	G	REMOVE	UNREGULATED
1000	682.92	4465.81	5392.42	7" EASTERN COTTONWOOD	G	REMOVE	UNREGULATED
1003	683.13	4461.23	5405.03	7" EASTERN COTTONWOOD	G	REMOVE	UNREGULATED
1004	682.97	4453.91	5400.44	5" EASTERN COTTONWOOD	G	REMOVE	UNREGULATED
1005	682.93	4451.23	5391.92	8" EASTERN COTTONWOOD	G	REMOVE	UNREGULATED
1006	682.32	4444.06	5391.71	8" EASTERN COTTONWOOD	G	REMOVE	UNREGULATED
1007	682.41	4446.39	5380.56	5" EASTERN COTTONWOOD	G	REMOVE	UNREGULATED
1010	689.08	4409.53	5373.86	12" EASTERN COTTONWOOD	F	REMOVE	UNREGULATED
1011	689.27	4395.84	5389.52	2-5" EASTERN COTTONWOOD	Р	REMOVE	UNREGULATED
1012	689.83	4387.55	5379.53	2-6" RED MAPLE	G	REMOVE	REGULATED
1014	690.45	4383.25	5360.56	2-4&7" WILLOW	F	REMOVE	UNREGULATED
1016	690.93	4378.13	5371.10	10" BOX ELDER	F	REMOVE	UNREGULATED
1017	689.70	4366.36	5367.15	5" WILLOW	F	REMOVE	UNREGULATED
1018	686.86	4357.37	5358.03	2-5" WILLOW	F	REMOVE	UNREGULATED
1019	687.18	4361.04	5347.66	6" WILLOW	F	REMOVE	UNREGULATED
1020	687.47	4357.80	5344.49	8" WILLOW	F	REMOVE	UNREGULATED
1021	686.32	4355.60	5337.59	2-5" SILVER MAPLE	G	REMOVE	UNREGULATED
1022	685.53	4350.97	5336.59	5" WILLOW	F	REMOVE	UNREGULATED
1023	686.46	4355.53	5330.28	6" SILVER MAPLE	F	REMOVE	UNREGULATED
1024	686.13	4356.28	5323.74	6" SILVER MAPLE	F	REMOVE	UNREGULATED
1025	686.38	4351.63	5316.86	6" WILLOW	F	REMOVE	UNREGULATED
1026	689.60	4367.57	5317.31	6" WILLOW	F	REMOVE	UNREGULATED
	000.00		0017101	0 WEE0W			3111123321123
1028 L	687.65		5331.47	6" SILVER MAPLE	G		UNREGULATED
1028	687.65 685.64	4370.18	5331.47	6" SILVER MAPLE	G	REMOVE	UNREGULATED
1029	685.64	4370.18 4356.78	5306.40	6" SILVER MAPLE	G	REMOVE REMOVE	UNREGULATED
1029 1030	685.64 682.44	4370.18 4356.78 4352.76	5306.40 5298.01	6" SILVER MAPLE 2-5" SILVER MAPLE	G G	REMOVE REMOVE REMOVE	UNREGULATED UNREGULATED
1029 1030 1031	685.64 682.44 682.43	4370.18 4356.78 4352.76 4361.27	5306.40 5298.01 5295.33	6" SILVER MAPLE 2-5" SILVER MAPLE 12" SILVER MAPLE	G G F	REMOVE REMOVE REMOVE	UNREGULATED UNREGULATED UNREGULATED
1029 1030 1031 1032	685.64 682.44 682.43 683.01	4370.18 4356.78 4352.76 4361.27 4377.38	5306.40 5298.01 5295.33 5304.84	6" SILVER MAPLE 2-5" SILVER MAPLE 12" SILVER MAPLE 3-5" EASTERN COTTONWOOD	G G F G	REMOVE REMOVE REMOVE REMOVE REMOVE	UNREGULATED UNREGULATED UNREGULATED UNREGULATED
1029 1030 1031 1032 1033	685.64 682.44 682.43 683.01 682.57	4370.18 4356.78 4352.76 4361.27 4377.38 4382.72	5306.40 5298.01 5295.33 5304.84 5313.66	6" SILVER MAPLE 2-5" SILVER MAPLE 12" SILVER MAPLE 3-5" EASTERN COTTONWOOD 10" WILLOW	G G F G	REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE	UNREGULATED UNREGULATED UNREGULATED UNREGULATED UNREGULATED
1029 1030 1031 1032 1033 1034	685.64 682.44 682.43 683.01 682.57	4370.18 4356.78 4352.76 4361.27 4377.38 4382.72 4382.72	5306.40 5298.01 5295.33 5304.84 5313.66 5308.66	6" SILVER MAPLE 2-5" SILVER MAPLE 12" SILVER MAPLE 3-5" EASTERN COTTONWOOD 10" WILLOW 8" SILVER MAPLE	G G F G G	REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE	UNREGULATED UNREGULATED UNREGULATED UNREGULATED UNREGULATED UNREGULATED
1029 1030 1031 1032 1033 1034 1035	685.64 682.44 682.43 683.01 682.57 682.57	4370.18 4356.78 4352.76 4361.27 4377.38 4382.72 4382.72 4382.15	5306.40 5298.01 5295.33 5304.84 5313.66 5308.66 5329.86	6" SILVER MAPLE 2-5" SILVER MAPLE 12" SILVER MAPLE 3-5" EASTERN COTTONWOOD 10" WILLOW 8" SILVER MAPLE 6" SILVER MAPLE	G G G G	REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE	UNREGULATED UNREGULATED UNREGULATED UNREGULATED UNREGULATED UNREGULATED UNREGULATED
1029 1030 1031 1032 1033 1034 1035 1036	685.64 682.44 682.43 683.01 682.57 682.57 682.51 681.39	4370.18 4356.78 4352.76 4361.27 4377.38 4382.72 4382.72 4382.15 4392.14	5306.40 5298.01 5295.33 5304.84 5313.66 5308.66 5329.86	6" SILVER MAPLE 2-5" SILVER MAPLE 12" SILVER MAPLE 3-5" EASTERN COTTONWOOD 10" WILLOW 8" SILVER MAPLE 6" SILVER MAPLE 6" SILVER MAPLE	G G G G	REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE	UNREGULATED UNREGULATED UNREGULATED UNREGULATED UNREGULATED UNREGULATED UNREGULATED UNREGULATED UNREGULATED
1029 1030 1031 1032 1033 1034 1035	685.64 682.44 682.43 683.01 682.57 682.57	4370.18 4356.78 4352.76 4361.27 4377.38 4382.72 4382.72 4382.15	5306.40 5298.01 5295.33 5304.84 5313.66 5308.66 5329.86	6" SILVER MAPLE 2-5" SILVER MAPLE 12" SILVER MAPLE 3-5" EASTERN COTTONWOOD 10" WILLOW 8" SILVER MAPLE 6" SILVER MAPLE	G G G G	REMOVE	UNREGULATED UNREGULATED UNREGULATED UNREGULATED UNREGULATED UNREGULATED UNREGULATED
1029 1030 1031 1032 1033 1034 1035 1036	685.64 682.44 682.43 683.01 682.57 682.57 682.51 681.39	4370.18 4356.78 4352.76 4361.27 4377.38 4382.72 4382.72 4382.15 4392.14	5306.40 5298.01 5295.33 5304.84 5313.66 5308.66 5329.86	6" SILVER MAPLE 2-5" SILVER MAPLE 12" SILVER MAPLE 3-5" EASTERN COTTONWOOD 10" WILLOW 8" SILVER MAPLE 6" SILVER MAPLE 6" SILVER MAPLE	G G G G	REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE REMOVE	UNREGULATED UNREGULATED UNREGULATED UNREGULATED UNREGULATED UNREGULATED UNREGULATED UNREGULATED UNREGULATED
1029 1030 1031 1032 1033 1034 1035 1036	685.64 682.44 682.43 683.01 682.57 682.57 682.51 681.39 682.59	4370.18 4356.78 4352.76 4361.27 4377.38 4382.72 4382.72 4382.15 4392.14 4398.60	5306.40 5298.01 5295.33 5304.84 5313.66 5308.66 5329.86 5329.63 5332.19	6" SILVER MAPLE 2-5" SILVER MAPLE 12" SILVER MAPLE 3-5" EASTERN COTTONWOOD 10" WILLOW 8" SILVER MAPLE 6" SILVER MAPLE 6" SILVER MAPLE 5" SILVER MAPLE	G G G G F	REMOVE	UNREGULATED
1029 1030 1031 1032 1033 1034 1035 1036 1037	685.64 682.44 682.43 683.01 682.57 682.57 682.51 681.39 682.59 682.80	4370.18 4356.78 4352.76 4361.27 4377.38 4382.72 4382.72 4382.15 4392.14 4398.60 4397.22	5306.40 5298.01 5295.33 5304.84 5313.66 5308.66 5329.86 5329.63 5332.19 5317.46	6" SILVER MAPLE 2-5" SILVER MAPLE 12" SILVER MAPLE 3-5" EASTERN COTTONWOOD 10" WILLOW 8" SILVER MAPLE 6" SILVER MAPLE 5" SILVER MAPLE 11" EASTERN COTTONWOOD	G G G G G G G G G G G G G G G G G G G	REMOVE	UNREGULATED
1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039	685.64 682.44 682.43 683.01 682.57 682.57 682.51 681.39 682.59 682.80 682.88	4370.18 4356.78 4352.76 4361.27 4377.38 4382.72 4382.72 4382.15 4392.14 4398.60 4397.22 4408.12	5306.40 5298.01 5295.33 5304.84 5313.66 5308.66 5329.63 5329.63 5332.19 5317.46 5326.72	6" SILVER MAPLE 2-5" SILVER MAPLE 12" SILVER MAPLE 3-5" EASTERN COTTONWOOD 10" WILLOW 8" SILVER MAPLE 6" SILVER MAPLE 6" SILVER MAPLE 5" SILVER MAPLE 11" EASTERN COTTONWOOD 12" EASTERN COTTONWOOD	G G G G G F G F	REMOVE	UNREGULATED
1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040	685.64 682.44 682.43 683.01 682.57 682.57 682.51 681.39 682.59 682.80 682.88	4370.18 4356.78 4352.76 4361.27 4377.38 4382.72 4382.72 4382.15 4392.14 4398.60 4397.22 4408.12	5306.40 5298.01 5295.33 5304.84 5313.66 5308.66 5329.86 5329.63 5332.19 5317.46 5326.72 5345.90	6" SILVER MAPLE 2-5" SILVER MAPLE 12" SILVER MAPLE 3-5" EASTERN COTTONWOOD 10" WILLOW 8" SILVER MAPLE 6" SILVER MAPLE 5" SILVER MAPLE 11" EASTERN COTTONWOOD 12" EASTERN COTTONWOOD 9" SILVER MAPLE	G G G G F G F	REMOVE	UNREGULATED
1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040	685.64 682.44 682.43 683.01 682.57 682.57 682.51 681.39 682.59 682.80 682.88 682.85	4370.18 4356.78 4352.76 4361.27 4377.38 4382.72 4382.72 4382.15 4392.14 4398.60 4397.22 4408.12 4408.12	5306.40 5298.01 5295.33 5304.84 5313.66 5308.66 5329.86 5329.63 5332.19 5317.46 5326.72 5345.90 5338.90	6" SILVER MAPLE 2-5" SILVER MAPLE 12" SILVER MAPLE 3-5" EASTERN COTTONWOOD 10" WILLOW 8" SILVER MAPLE 6" SILVER MAPLE 5" SILVER MAPLE 11" EASTERN COTTONWOOD 12" EASTERN COTTONWOOD 9" SILVER MAPLE 6" SILVER MAPLE	G G G G F G G G	REMOVE	UNREGULATED
1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1045	685.64 682.44 682.43 683.01 682.57 682.57 682.51 681.39 682.59 682.80 682.88 682.85 682.85 682.15	4370.18 4356.78 4352.76 4361.27 4377.38 4382.72 4382.72 4382.15 4392.14 4398.60 4397.22 4408.12 4408.12 4408.12 4335.01	5306.40 5298.01 5295.33 5304.84 5313.66 5308.66 5329.86 5329.63 5329.63 5332.19 5317.46 5326.72 5345.90 5338.90 5298.76	6" SILVER MAPLE 2-5" SILVER MAPLE 12" SILVER MAPLE 3-5" EASTERN COTTONWOOD 10" WILLOW 8" SILVER MAPLE 6" SILVER MAPLE 5" SILVER MAPLE 11" EASTERN COTTONWOOD 12" EASTERN COTTONWOOD 9" SILVER MAPLE 6" SILVER MAPLE 6" SILVER MAPLE	G G G G G F G G F G F	REMOVE	UNREGULATED UNREGULATED

				TREE LIST LEGEND: G=GOOD, F=FAIR, P=	POOR, D=DE	AD	
POINT	ELEVATION	NORTHING	EASTING	DESCRIPTION	CONDITION	REMOVE/SAVE	REGULATED/UNREGULATE
1051	684.99	4348.97	5370.77	7" WILLOW	G	REMOVE	UNREGULATED
1052	686.94	4358.00	5380.15	2-5" WILLOW	G	REMOVE	UNREGULATED
1058	683.07	4363.03	5411.29	5" SILVER MAPLE	F	REMOVE	UNREGULATED
1060	687.16	4366.46	5389.83	6" WILLOW	F	REMOVE	UNREGULATED
1061	687.18	4362.23	5387.44	12" WILLOW	G	REMOVE	UNREGULATED
1063	682.44	4385.30	5403.01	6" BLUE SPRUCE	D	REMOVE	UNREGULATED
1064	682.51	4392.70	5403.39	6" BLUE SPRUCE	D	REMOVE	UNREGULATED
1065	682.52	4400.41	5407.91	6" HAWTHORN	D	REMOVE	UNREGULATED
1066	682.83	4403.68	5406.17	6" BLUE SPRUCE	D	REMOVE	UNREGULATED
1067	682.57	4413.82	5407.97	5" WHITE ASH	Р	REMOVE	UNREGULATED
1068	682.66	4419.48	5405.65	5" BLACK CHERRY	Р	REMOVE	REGULATED
1069	683.35	4421.29	5401.85	7" SILVER MAPLE	G	REMOVE	UNREGULATED
1073	682.16	4429.46	5474.47	5" RED MAPLE	Р	REMOVE	REGULATED
1074	682.15	4409.67	5486.09	7" RED MAPLE	F	REMOVE	REGULATED
1075	681.97	4378.45	5509.57	8" PIN OAK	G	REMOVE	REGULATED
1076	681.83	4363.27	5509.41	3-6" SUGAR MAPLE	G	REMOVE	REGULATED
1077	681.99	4356.36	5493.13	5" SUGAR MAPLE	F	REMOVE	REGULATED
1078	681.52	4354.69	5480.88	7" RED MAPLE	G	REMOVE	REGULATED
1080	682.29	4393.97	5446.98	5&7" SUGAR MAPLE	G	REMOVE	REGULATED
1081	682.02	4370.33	5442.15	9" SUGAR MAPLE	G	REMOVE	REGULATED
1082	681.84	4398.91	5454.29	11" SUGAR MAPLE	G	REMOVE	REGULATED
1083	682.19	4399.37	5446.87	6" SUGAR MAPLE	G	REMOVE	REGULATED
1084	682.22	4418.22	5447.27	9" SUGAR MAPLE	F	REMOVE	REGULATED
1085	682.22	4416.67	5453.07	7&10" SILVER MAPLE	F	REMOVE	UNREGULATED
1086	682.55	4428.11	5452.34	16" SUGAR MAPLE	G	REMOVE	REGULATED
1089	683.49	4381.26	5233.64	9" SCOTCH PINE	Р	REMOVE	UNREGULATED
1090	683.48	4417.71	5233.68	7" BLUE SPRUCE	Р	REMOVE	UNREGULATED
1091	683.15	4420.42	5217.58	6" RED MAPLE	G	SAVE	UNREGULATED/OFFSITE
1092	683.04	4453.46	5231.47	10" RED PINE	Р	REMOVE	UNREGULATED
1124	683.11	4441.45	5105.07	12" BLACK CHERRY	G	SAVE	UNREGULATED/OFFSITE
1184	682.45	4451.21	5221.35	13" RED PINE	F	SAVE	REGULATED
1185	682.40	4451.08	5213.46	10" RED PINE	F	SAVE	REGULATED
1186	682.52	4450.94	5206.18	10" RED PINE	F	SAVE	REGULATED
1187	682.53	4450.98	5201.78	11" RED PINE	F	SAVE	REGULATED
1188	682.66	4452.09	5195.11	7" RED PINE	F	SAVE	REGULATED
1189 1190	682.75 682.79	4452.64 4452.78	5189.88 5184.07	15" RED PINE	F	SAVE SAVE	REGULATED REGULATED
1190	682.74	4452.78	5177.38	8" RED PINE 10" RED PINE	F	SAVE	REGULATED
1191	682.77	4451.25	5172.27	9" RED PINE	F	SAVE	REGULATED
1193	682.75	4451.50	5167.99	9" RED PINE	F	SAVE	REGULATED
1194	682.83	4450.54	5162.40	9" RED PINE	F F	SAVE	REGULATED
1195	682.82	4450.61	5158.69	13" RED PINE	F	SAVE	REGULATED
1196	682.90	4449.89	5154.21	9" RED PINE	F	SAVE	REGULATED
1197	682.94	4450.36	5151.11	13" RED PINE	F	SAVE	REGULATED
1198	683.06	4451.37	5146.15	9" RED PINE	F	SAVE	REGULATED
1199	683.06	4450.29	5141.72	10" RED PINE	F	SAVE	REGULATED
1200	683.08	4450.30	5137.52	12" RED PINE	F	SAVE	REGULATED
1201	682.86	4451.00	5128.40	12" RED PINE	F	SAVE	REGULATED
1202	682.85	4450.86	5123.95	12" RED PINE	F	SAVE	REGULATED
1203	682.68	4450.95	5097.04	12" RED PINE	F	SAVE	REGULATED
1204	682.59	4449.77	5091.61	12" RED PINE	F	SAVE	REGULATED
1205	682.58	4450.11	5088.20	9" RED PINE	F	SAVE	REGULATED
1206	682.46	4449.41	5084.37	9" RED PINE	F	SAVE	REGULATED
1207	682.38	4449.33	5076.49	10" RED PINE	F	SAVE	REGULATED
1208	682.43	4449.91	5071.70	9" RED PINE	F	SAVE	REGULATED
1209	682.34	4449.39	5066.23	11" RED PINE	F	SAVE	REGULATED
1210	682.35	4449.32	5061.80	12" RED PINE	F	SAVE	REGULATED
1211	682.31	4448.40	5058.25	12" RED PINE	F	SAVE	REGULATED
1212	682.26	4449.05	5052.96	8" RED PINE	F	SAVE	REGULATED
1213	682.23	4448.96	5048.95	9" RED PINE	F	SAVE	REGULATED
		·				·	

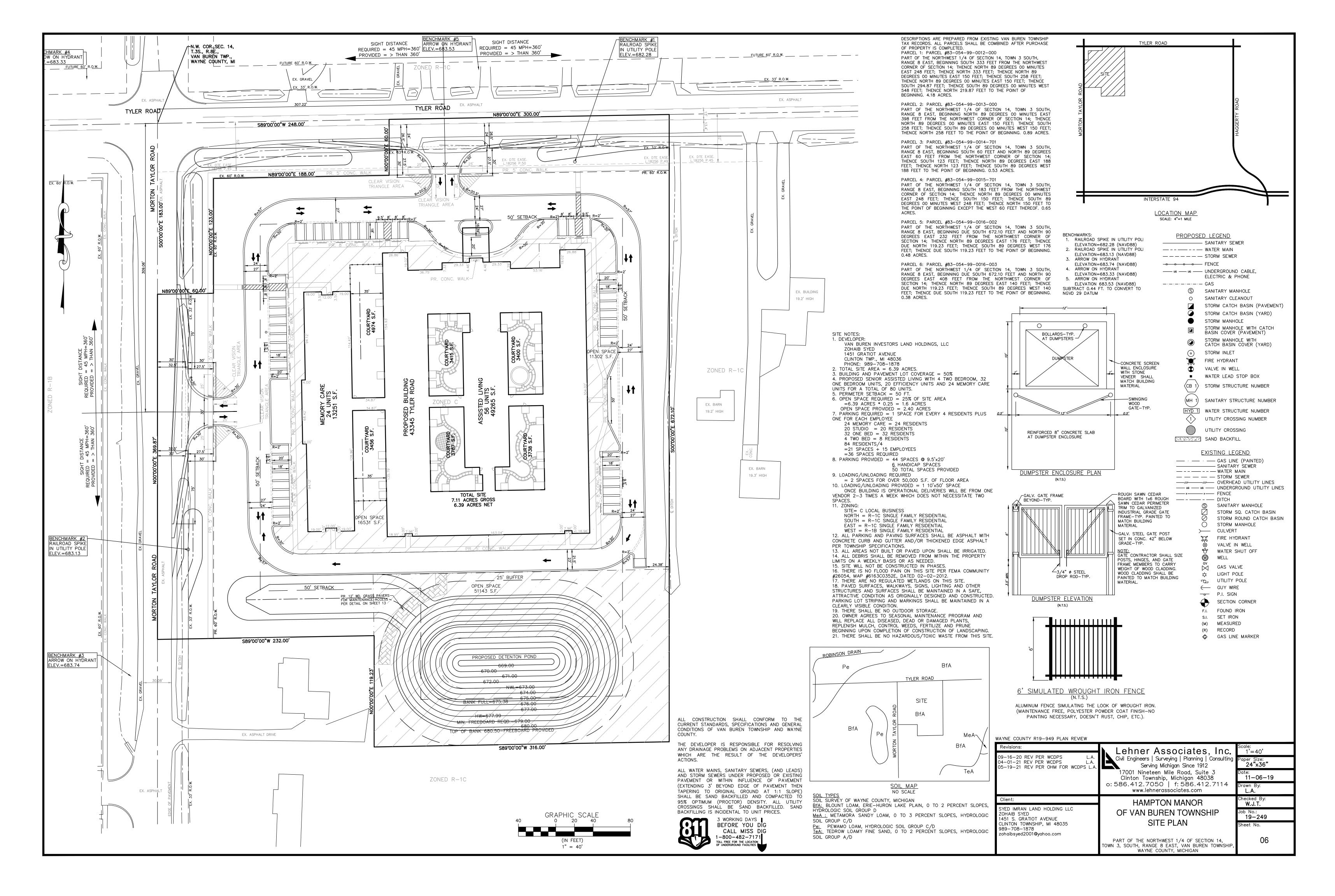
SEE LANDSCAPE PLAN LS-1 OF 4 FOR TREE REMOVAL/REPLACEMENT SUMMARY.

OFFSITE TREES SHALL NOT BE REMOVED.

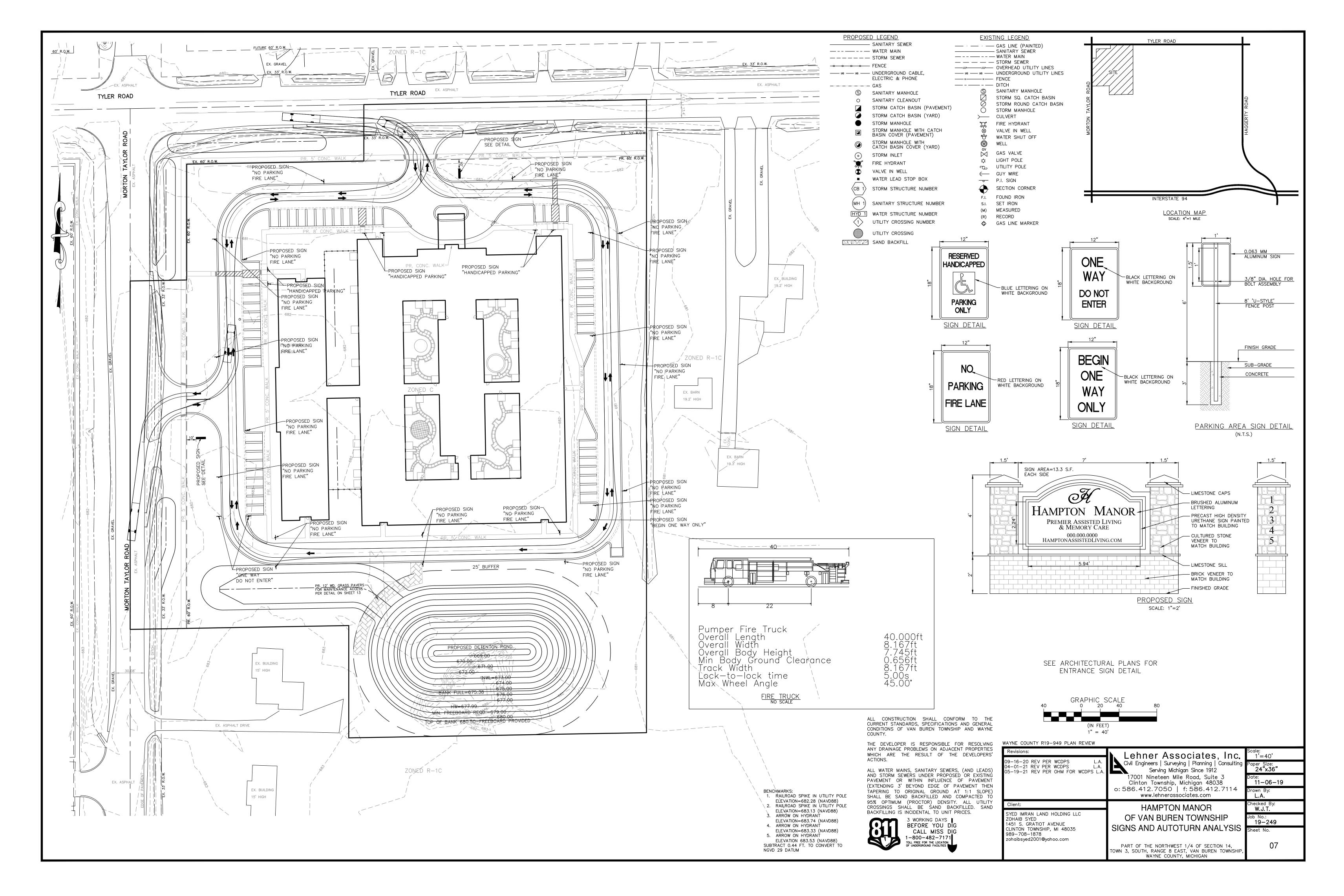
WAYNE COUNTY R19-949 PLAN REVIEW		
Revisions:	Lehner Associates, Inc.	Scale: NO SCALE
09-16-20 REV PER WCDPS L.A. 04-01-21 REV PER WCDPS L.A. 05-19-21 REV PER OHM FOR WCDPS L.A.	Civil Engineers Surveying Planning Consulting Serving Michigan Since 1912	Paper Size: 24"x36"
	17001 Nineteen Mile Road, Suite 3 Clinton Township, Michigan 48038	Date: 11—06—19
	o: 586.412.7050 f: 586.412.7114 www.lehnerassociates.com	Drawn By: L.A.
Client:	HAMPTON MANOR	Checked By: W.J.T.
SYED IMRAN LAND HOLDING LLC ZOHAIB SYED 1451 S. GRATIOT AVENUE	OF VAN BUREN TOWNSHIP	Job No.: 19-249
CLINTON TOWNSHIP, MI 48035 989-708-1878 zohaibsyed2001@yahoo.com	TREE LIST	Sheet No.
25	PART OF THE NORTHWEST 1/4 OF SECTION 14, TOWN 3, SOUTH, RANGE 8 EAST, VAN BUREN TOWNSHIP, WAYNE COUNTY, MICHIGAN	04



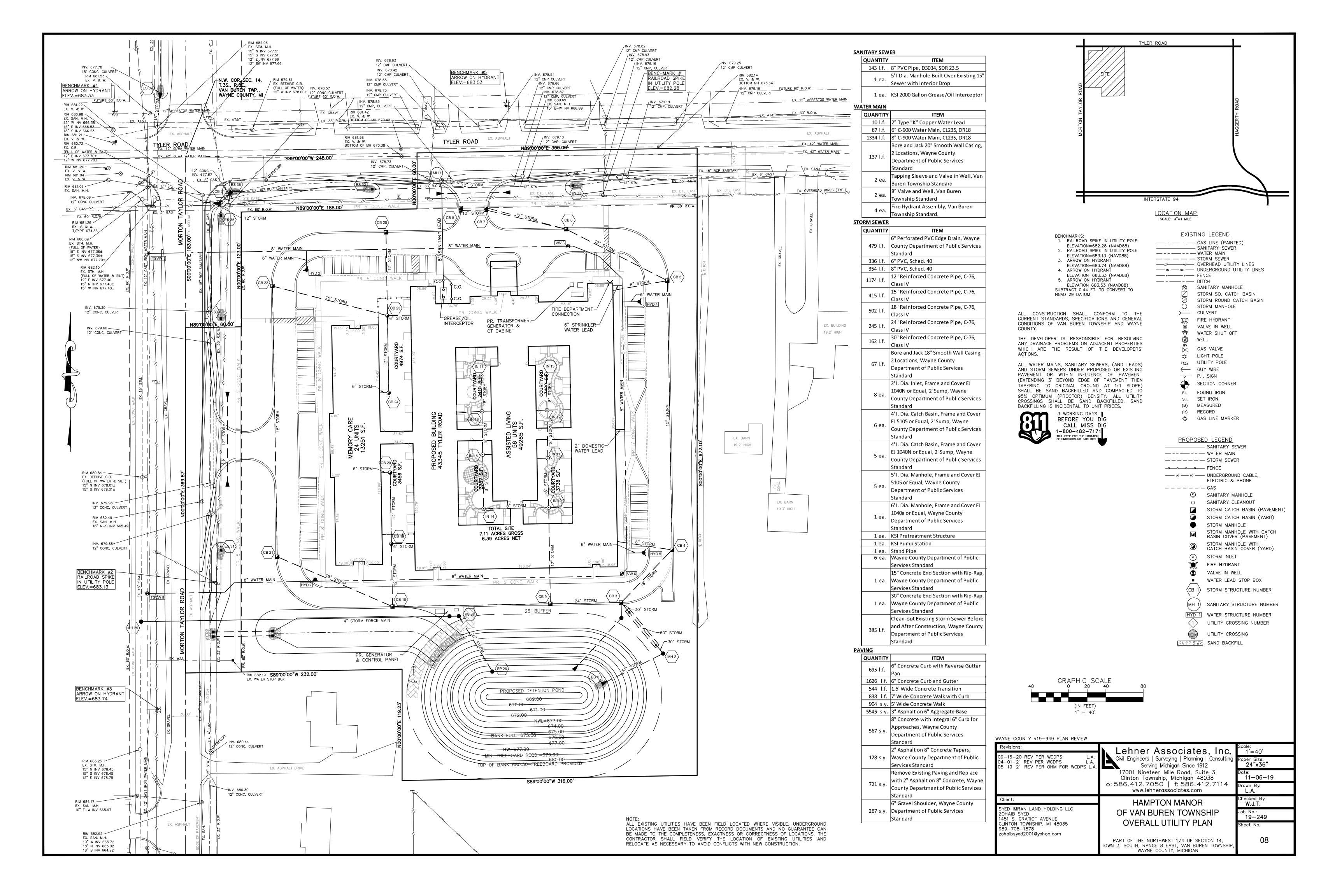
19\19-249\Drafting & Engineering\Engineering\19-249-01-08-SitePlan.dwg, 05-Demo, 5/19/2021 10:21:34 AM



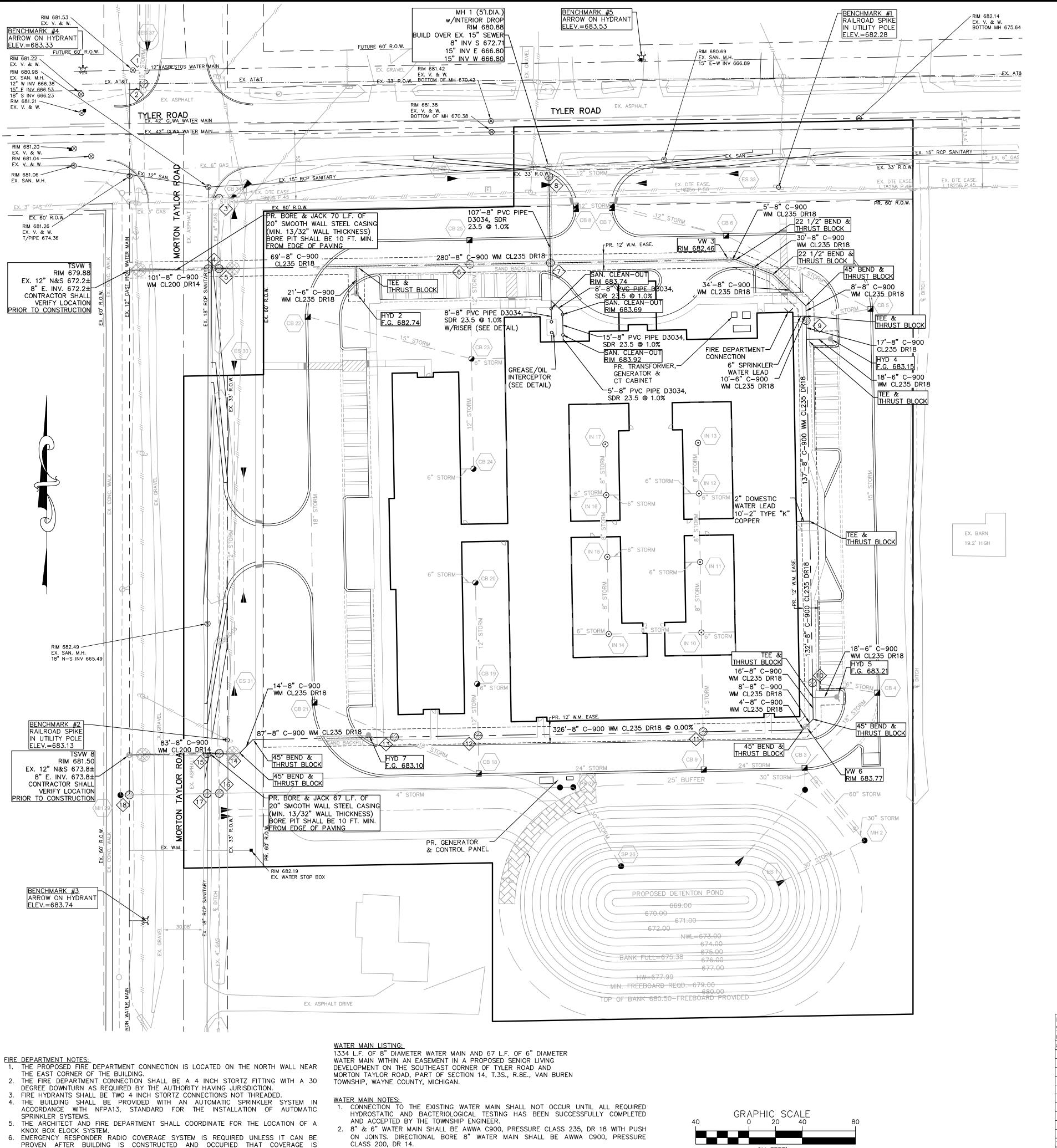
F:\19\19-249\Drafting & Engineering\Engineering\19-249-01-08-SitePlan.dwg, 06-Site Plan, 5/19/2021 10:27:50 AM, lau



F:\19\19-249\Drafting & Engineering\Engineering\19-249-01-08-SitePlan.dwg, 07-Signs-Truck Turn, 5/19/2021 10:30:49 AM, lau



.19∖19-249∖Drafting & Engineering∖Engineering∖19-249-01-08-SitePlan.dwg, 08-Util, 5/19/2021 10:37:35 AM, laura.



ALL WATER MAIN AND WATER SYSTEM CONSTRUCTION SHALL CONFORM TO THE

CURRENT STANDARDS AND SPECIFICATIONS OF VAN BUREN TOWNSHIP.

SUFFICIENT. THIS WILL BE VERIFIED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO

FINAL CERTIFICATE OF OCCUPANCY.

(IN FEET)

1" = 40'

NOTE: ALL EXISTING UTILITIES HAVE BEEN FIELD LOCATED WHERE VISIBLE. UNDERGROUND LOCATIONS HAVE BEEN TAKEN FROM RECORD DOCUMENTS AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, EXACTNESS OR CORRECTNESS OF LOCATIONS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING UTILITIES AND RELOCATE AS NECESSARY TO AVOID CONFLICTS WITH NEW CONSTRUCTION.

> 1. RAILROAD SPIKE IN UTILITY POLE ELEVATION=682.28 (NAVD88)

2. RAILROAD SPIKE IN UTILITY POLE ELEVATION=683.13 (NAVD88) ARROW ON HYDRANT 4. ARROW ON HYDRANT

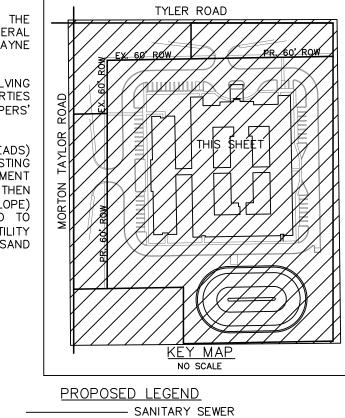
ELEVATION=683.74 (NAVD88) ELEVATION=683.33 (NAVD88) 5. ARROW ON HYDRANT ELEVATION 683.53 (NAVD88) SUBTRACT 0.44 FT. TO CONVERT TO NGVD 29 DATUM

ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS, SPECIFICATIONS AND GENERAL CONDITIONS OF VAN BUREN TOWNSHIP AND WAYNE

THE DEVELOPER IS RESPONSIBLE FOR RESOLVING ANY DRAINAGE PROBLEMS ON ADJACENT PROPERTIES WHICH ARE THE RESULT OF THE DEVELOPERS'

ALL WATER MAINS, SANITARY SEWERS, (AND LEADS) AND STORM SEWERS UNDER PROPOSED OR EXISTING PAVEMENT OR WITHIN INFLUENCE OF PAVEMENT (EXTENDING 3' BEYOND EDGE OF PAVEMENT THEN TAPERING TO ORIGINAL GROUND AT 1:1 SLOPE)
SHALL BE SAND BACKFILLED AND COMPACTED TO 95% OPTIMUM (PROCTOR) DENSITY. ALL UTILITY CROSSINGS SHALL BE SAND BACKFILLED. SAND BACKFILLING IS INCIDENTAL TO UNIT PRICES.





— - - — WATER MAIN

---- STORM SEWER

— us — us — UNDERGROUND CABLE,

ELECTRIC & PHONE

SANITARY MANHOLE

STORM MANHOLE

STORM INLET

FIRE HYDRANT

VALVE IN WELL

WATER LEAD STOP BOX

SANITARY STRUCTURE NUMBER

 \langle CB 1angle STORM STRUCTURE NUMBER

HYD 1 WATER STRUCTURE NUMBER

UTILITY CROSSING

EXISTING LEGEND

——— SANITARY SEWER

--- us --- us --- UNDERGROUND UTILITY LINES

SANITARY MANHOLE STORM SQ. CATCH BASIN

STORM MANHOLE

FIRE HYDRANT

VALVE IN WELL

WATER SHUT OFF

STORM ROUND CATCH BASIN

— · — · — GAS LINE (PAINTED)

CULVERT

WELL

☆ LIGHT POLE

UTILITY POLE

← GUY WIRE

- P.I. SIGN

s.i. SET IRON

(M) MEASURED

(R) RECORD

GAS VALVE

SECTION CORNER

FOUND IRON

GAS LINE MARKER

SAND BACKFILL

— - - — WATER MAIN

— — — — STORM SEWER

____×____×____ FENCE

— - — — DITCH

UTILITY CROSSING NUMBER

SANITARY CLEANOUT

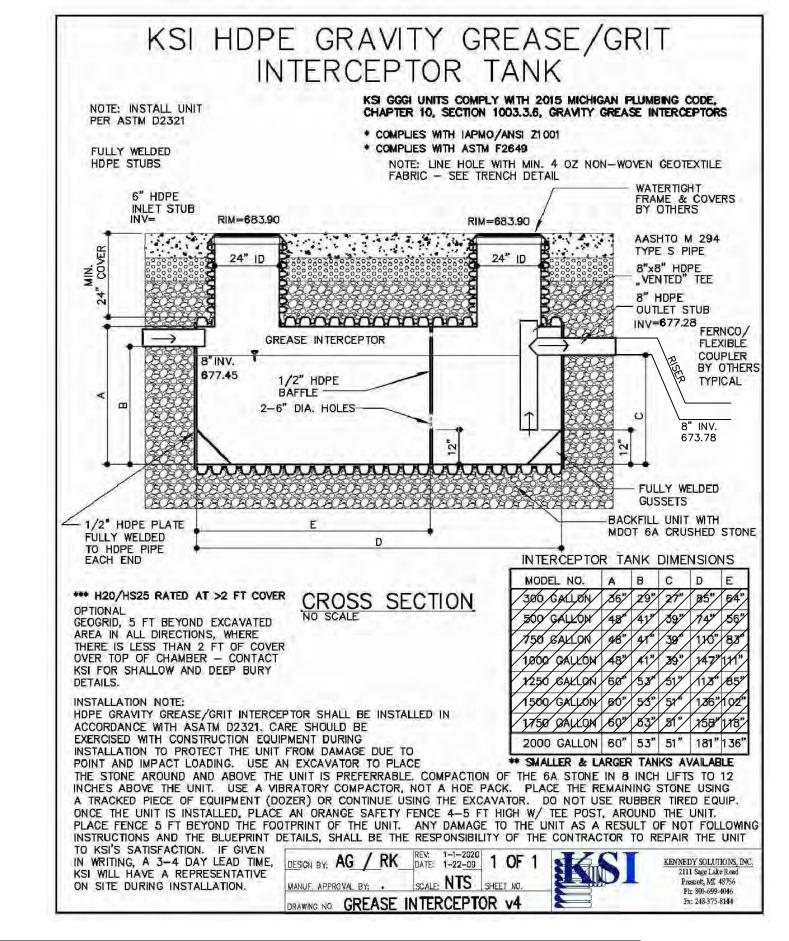
STORM CATCH BASIN (PAVEMENT

STORM CATCH BASIN (YARD)

STORM MANHOLE WITH CATCH BASIN COVER (PAVEMENT)

STORM MANHOLE WITH CATCH BASIN COVER (YARD)

----- GAS

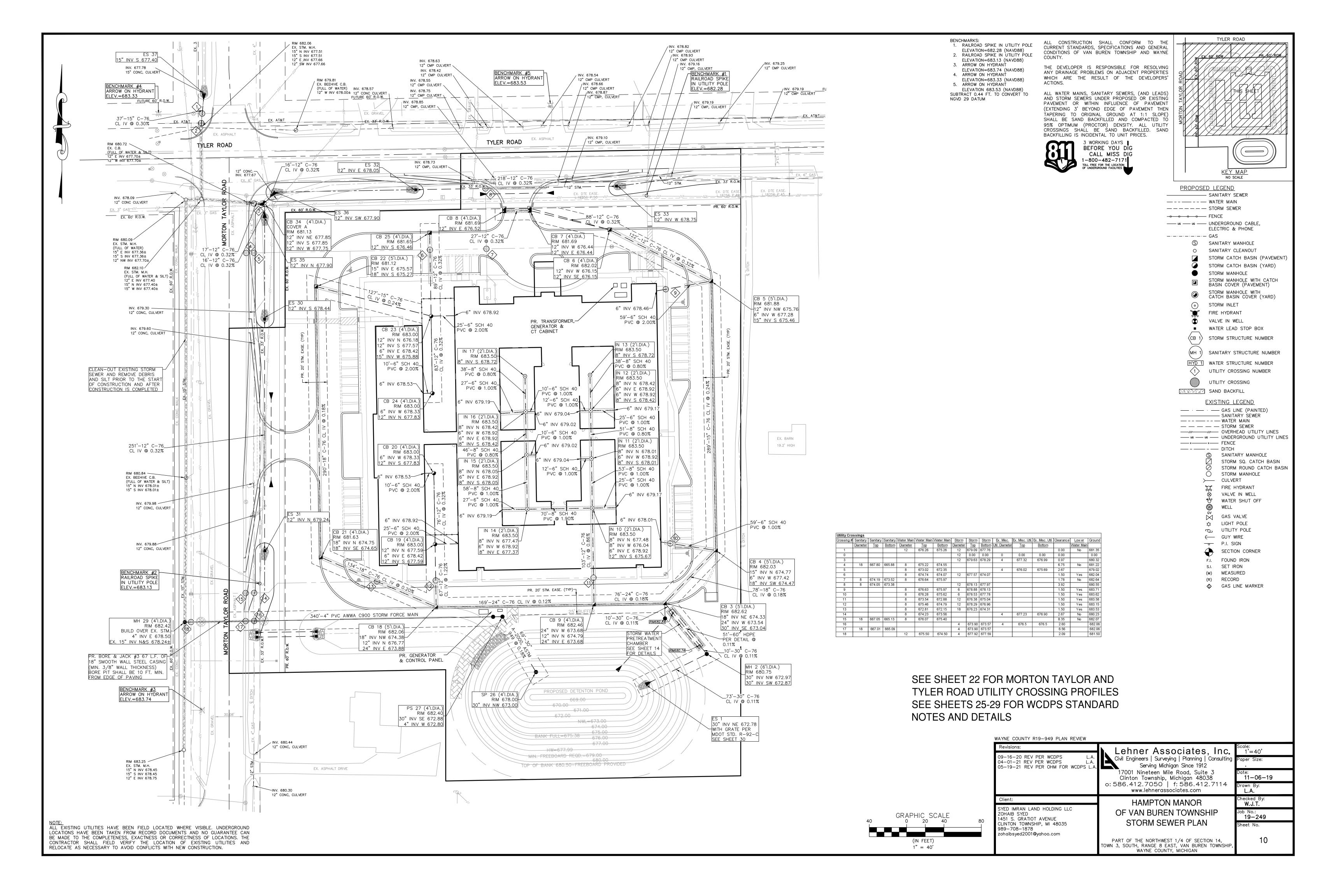


Utility Cro	ssings														
Crossing #	Sanitary	Sanitary	Sanitary	Water Main	Water Main	Water Main	Storm	Storm	Storm	Ex. Misc.	Ex. Misc. Util.	Ex. Misc. Util.	Clearance	Low er	Ground
	Diameter	Тор	Bottom	Diameter	Тор	Bottom	Diameter	Тор	Bottom	Util. Diameter	Тор	Bottom		Water Main	
1				12	676.26	675.26	12	679.09	677.76				0.00	No	681.35
0							12	0.00	0.00	0	0.00	0.00	0.00		0.00
3							12	679.63	678.29	4	677.32	676.99	0.97		680.32
4	18	667.80	665.88	8	675.22	674.55							6.75	No	681.22
5				8	673.02	672.35				4	676.02	675.69	2.67		679.02
6				8	674.74	674.07	12	677.57	674.07				1.50	Yes	682.04
7	8	674.19	673.52	8	676.64	675.97							1.78	No	682.64
8	8	674.05	673.38				12	678.13	677.97				3.92		680.55
9				8	676.63	675.97	6	678.88	678.13				1.50	Yes	683.71
10				8	676.28	675.62	6	678.53	677.78				1.50	Yes	683.62
11				8	673.54	672.88	12	676.38	675.04				1.50	Yes	683.58
12				8	675.46	674.79	12	678.29	676.96				1.50	Yes	683.15
13				8	672.81	672.15	18	676.23	674.31				1.50	Yes	683.53
14				8	674.23	673.56				4	677.23	676.90	2.67	No	680.23
15	18	667.05	665.13	8	676.07	675.40							8.35	No	682.07
16							4	673.90	673.57	4	676.5	676.5	2.60		682.06
17	18	667.01	665.09				4	673.90	673.57				6.56		682.06
18				12	675.50	674.50	4	677.92	677.59				2.09		681.50

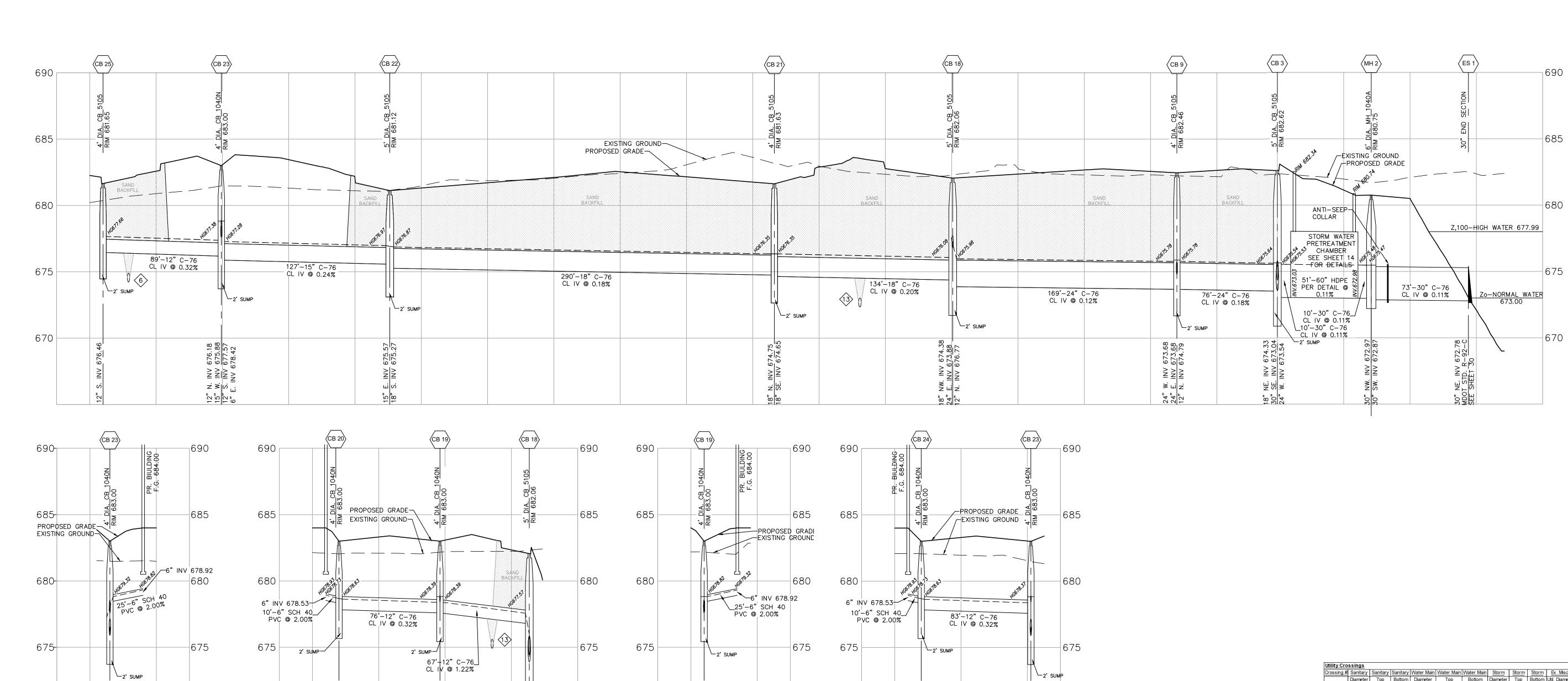
WATER MAIN BASIS OF DESIGN										
INITIAL AND ULTIMATE FLOW										
84 Beds in 80 Units										
Residential Equivelant Units	=	0.39	per bed	=	32.76					
POPULATION=	3	PEOPLE/UNIT								
TOTAL POPULATION=	98.28	PEOPLE								
AVERAGE FLOW=	98.28	PEOPLE x	<u>150</u>	<u>GPCD</u>	=	0.023	CFS	=	0.00045	MG
	86400	SEC/DAY x	7.48	GAL/CF						
PEAK FLOW=										
2 TIMES AVERAGE FLOW										
=	29484	GPD	=	0.046	CFS	=	0.00090	MGD		
TOTAL AVERAGE FLOW=	0.023	C.F.S.	=	0.00045	MGD					
TOTAL PEAK FLOW=	0.046	C.F.S.	=	0.00090	MGD					

YNE COUNTY R19-949 PLAN REVIEW		
Revisions:	Lehner Associates, Inc.	Scale: 1'=40'
9-16-20 REV PER WCDPS L.A. 4-01-21 REV PER WCDPS L.A. 5-19-21 REV PER OHM FOR WCDPS L.A.	Civil Engineers Surveying Planning Consulting Serving Michigan Since 1912 17001 Nineteen Mile Road, Suite 3 Clinton Township, Michigan 48038	Paper Size: 24"x36" Date: 11-06-19
	o: 586.412.7050 f: 586.412.7114 www.lehnerassociates.com	Drawn By: L.A.
Client:	HAMPTON MANOR	Checked By: W.J.T.
YED IMRAN LAND HOLDING LLC OHAIB SYED 451 S. GRATIOT AVENUE	OF VAN BUREN TOWNSHIP	Job No.: 19—249
LINTON TOWNSHIP, MI 48035 89-708-1878 ohaibsyed2001@yahoo.com	WATER MAIN AND SANITARY SEWER PLAN	Sheet No.
,,	PART OF THE NORTHWEST 1/4 OF SECTION 14, TOWN 3, SOUTH, RANGE 8 EAST, VAN BUREN TOWNSHIP, WAYNE COUNTY, MICHIGAN	09

SEE SHEET 22 FOR MORTON TAYLOR AND TYLER ROAD UTILITY CROSSING PROFILES SEE SHEETS 25-29 FOR WCDPS STANDARD NOTES AND DETAILS



:\19\19-249\Drafting & Engineering\Engineering\19-249-09-12-Wm-San-Stm.dwg, 10-Storm, 5/19/2021 11:19:53



670

670

INV 678.33 INV 677.83

12" N. INV 676.1 15" W. INV 675.8 12" S. INV 677.5 6" E. INV 678.42

¹2' SUMP

18" NW. INV 674.38 24" E. INV 673.88 12" N. INV 676.77

. INV 677.59 . INV 677.59 INV 678.42

12" N. 12" S. 6" E. H

670

12" N. 12" S. 6" E. II

Crossing#	Sanitary	Sanitary	Sanitary	Water Main	Water Main	Water Main	Storm	<u>Storm</u>	Storm	Ex. Misc.	Ex. Misc. Util.	Ex. Misc. Util.	Clearance	Low er	Ground
	Diameter	Тор	Bottom	Diameter	Тор	Bottom	Diameter	Тор	Bottom	Util. Diameter	Тор	Bottom		Water Main	
1				12	676.26	675.26	12	679.09	677.76				0.00	No	681.35
0							12	0.00	0.00	0	0.00	0.00	0.00		0.00
3							12	679.63	678.29	4	677.32	676.99	0.97		680.32
4	18	667.80	665.88	8	675.22	674.55							6.75	No	681.22
5				8	673.02	672.35				4	676.02	675.69	2.67		679.02
6				8	674.74	674.07	12	677.57	674.07				1.50	Yes	682.04
7	8	674.19	673.52	8	676.64	675.97							1.78	No	682.64
8	8	674.05	673.38				12	678.13	677.97				3.92		680.55
9				8	676.63	675.97	6	678.88	678.13				1.50	Yes	683.71
10				8	676.28	675.62	6	678.53	677.78				1.50	Yes	683.62
11				8	673.54	672.88	12	676.38	675.04				1.50	Yes	683.58
12				8	675.46	674.79	12	678.29	676.96				1.50	Yes	683.15
13				8	672.81	672.15	18	676.23	674.31				1.50	Yes	683.53
14				8	674.23	673.56				4	677.23	676.90	2.67	No	680.23
15	18	667.05	665.13	8	676.07	675.40							8.35	No	682.07
16							4	673.90	673.57	4	676.5	676.5	2.60		682.06
17	18	667.01	665.09				4	673.90	673.57				6.56		682.06
18				12	675.50	674.50	4	677.92	677.59				2.09		681.50

ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS, SPECIFICATIONS AND GENERAL CONDITIONS OF VAN BUREN TOWNSHIP AND WAYNE

670

676. 675. 677. 378.4 $\frac{2}{5}$

12" N. 15" W. 12" S. 6" E. II

THE DEVELOPER IS RESPONSIBLE FOR RESOLVING ANY DRAINAGE PROBLEMS ON ADJACENT PROPERTIES WHICH ARE THE RESULT OF THE DEVELOPERS'

ALL WATER MAINS, SANITARY SEWERS, (AND LEADS) AND STORM SEWERS UNDER PROPOSED OR EXISTING PAVEMENT OR WITHIN INFLUENCE OF PAVEMENT (EXTENDING 3' BEYOND EDGE OF PAVEMENT THEN TAPERING TO ORIGINAL GROUND AT 1:1 SLOPE) SHALL BE SAND BACKFILLED AND COMPACTED TO 95% OPTIMUM (PROCTOR) DENSITY. ALL UTILITY CROSSINGS SHALL BE SAND BACKFILLED. SAND BACKFILLING IS INCIDENTAL TO UNIT PRICES.

ACTIONS.

3 WORKING DAYS BEFORE YOU DIG CALL MISS D<u>I</u>G 1-800-482-7171
TOLL FREE FOR THE LOCATION OF UNDERGROUND FACILITIES

1. RAILROAD SPIKE IN UTILITY POLE ELEVATION=682.28 (NAVD88)
2. RAILROAD SPIKE IN UTILITY POLE

ELEVATION=683.13 (NAVD88) 3. ARROW ON HYDRANT ELEVATION=683.74 (NAVD88)

670

678.33 677.83

<u></u>≧l<u>≥</u>

6" W.

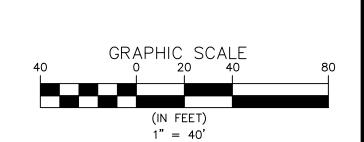
4. ARROW ON HYDRANT ELEVATION=683.33 (NAVD88) 5. ARROW ON HYDRANT ELEVATION 683.53 (NAVD88)

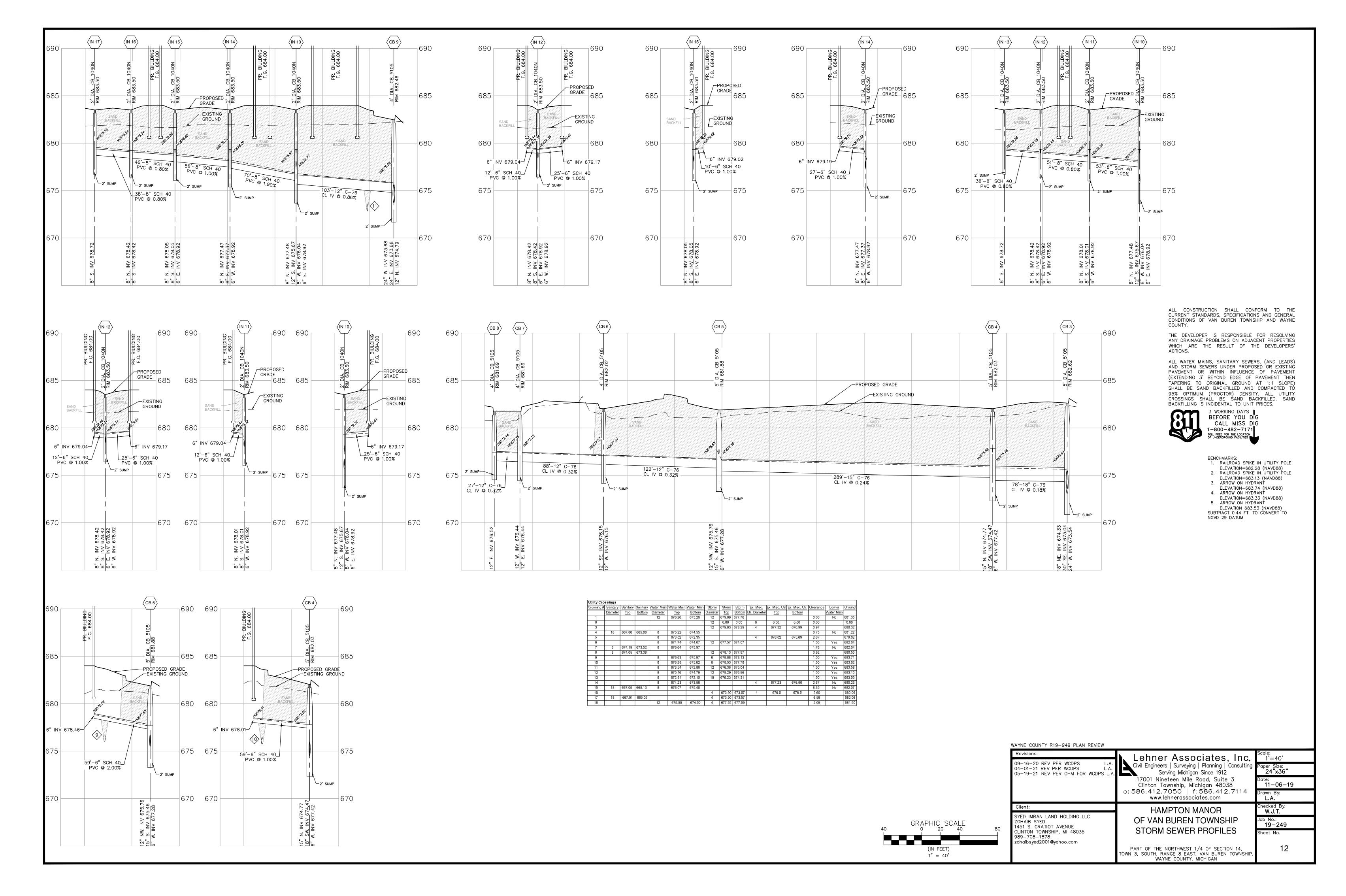
SUBTRACT 0.44 FT. TO CONVERT TO

NGVD 29 DATUM

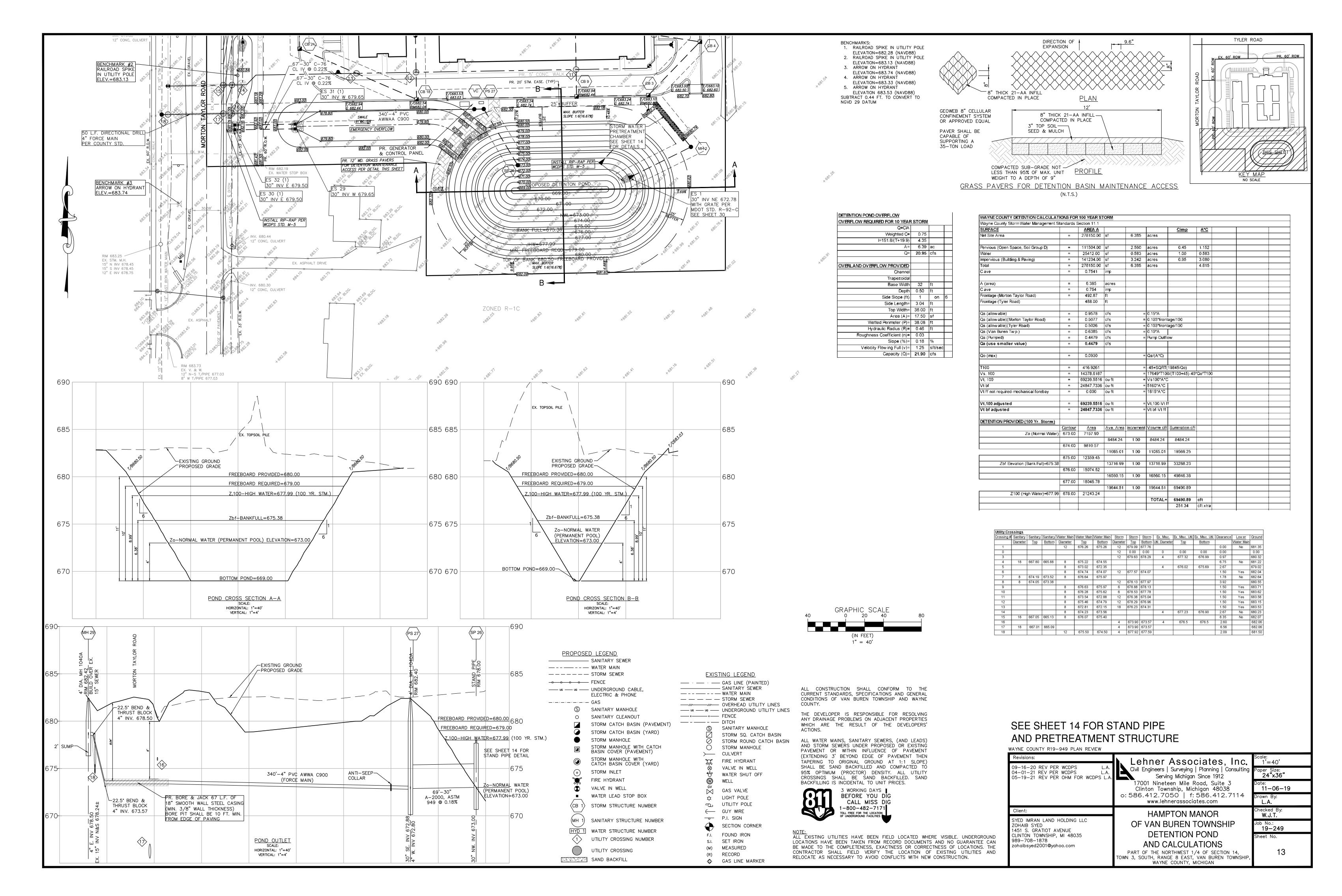
WAYNE COUNTY R19-949 PLAN REVIEW

Revisions: Lehner Associates, Inc. 09-16-20 REV PER WCDPS L.A. 04-01-21 REV PER WCDPS L.A. 05-19-21 REV PER OHM FOR WCDPS L.A. L.A. Civil Engineers | Surveying | Planning | Consulting Paper Size: 24"x36" Serving Michigan Since 1912 17001 Nineteen Mile Road, Suite 3 11-06-19 Clinton Township, Michigan 48038 o: 586.412.7050 | f: 586.412.7114 Drawn By: www.lehnerassociates.com L.A. Checked By: **W.J.T.** HAMPTON MANOR SYED IMRAN LAND HOLDING LLC OF VAN BUREN TOWNSHIP ZOHAIB SYED 19-249 1451 S. GRATIOT AVENUE STORM SEWER PROFILES CLINTON TOWNSHIP, MI 48035 Sheet No. 989-708-1878 zohaibsyed2001@yahoo.com PART OF THE NORTHWEST 1/4 OF SECTION 14, TOWN 3, SOUTH, RANGE 8 EAST, VAN BUREN TOWNSHIP, WAYNE COUNTY, MICHIGAN

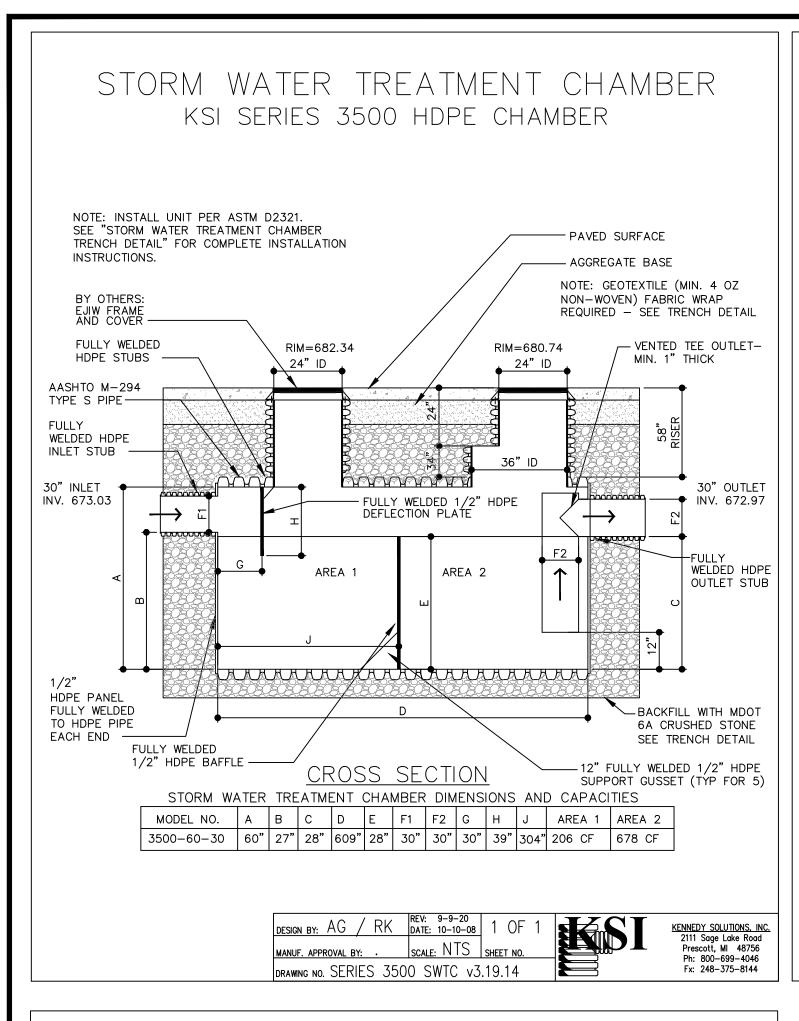




F∴19\19-249\Drafting & Engineering\Engineering\19-249-09-12-Wm-San-Stm.dwg, 12-Storm Profiles, 5/19/2021 11:28:2



F:\19\19-249\Drafting & Engineering\Engineering\19-249-13-16-Pond-Pump.dwg, 13-Detention Pond, 5/19/2021 1:12:21 PM, Is



STORM WATER TREATMENT CHAMBER INSTALLATION AND MAINTENANCE GUIDELINES

INSTALLATION GUIDELINES

1. EXCAVATE AREA FOR KSI SWTC AND PREPARE TRENCH BOTTOM PER ASTM D2321, SECTIONS 6 & 7.

2. THE KSI SWTC SHALL BE INSTALLED ON A BED OF NO LESS THAN 12" MDOT 6A CRUSHED STONE MATERIALS COMPACTED COMPACTED TO 95% (90% MIN. FOR MDOT 6A MATERIAL) OF THE BACKFILL MATERIAL'S MAXIMUM WEIGHT AT A MOISTURE CONTENT NOT GREATER

3. INSTALL KSI SWTC UNIT, HIGH FLOW BYPASS LINE (IF APPLICABLE), DIVERSION STRUCTURE AND EXITING STRUCTURE AT ELÈVATIONS INDICATED ON SITE PLAN. COUPLE INLET AND OUTLET STUBS WITH APPROPRIATE PIPE COUPLINGS, FERNCOS OR HDPE SPLIT COUPLERS TO CONVEYANCE PIPE.

4. BACKFILL UNIT WITH MDOT 6A CRUSHED STONE MATERIALS PER ASTM D2321. BACKFILL SHALL BE COMPACTED TO 95% PROCTOR DENSITY. 5. THE HDPE ACCESS RISERS SHALL BE FIELD CUT TO FINISH GRADE BY THE CONTRACTOR. SEE RISER INSTALLATION OPTIONS PAGE.

6. KSI RECOMMENDS FILLING THE UNIT WITH WATER UPON COMPLETION OF

MAINTENANCE GUIDELINES

INSTALLATION UP TO THE BAFFLE HEIGHT.

1. ALL STORM WATER TREATMENT CHAMBERS WILL REQUIRE PERIODIC MAINTENANCE DEPENDING ON SPECIFIC SITE CONDITIONS.

2. KSI RECCOMMENDS CLEANING THE SWTC QUARTERLY AND AFTER HEAVY RAIN STORMS. SEDIMENT IS EASIER TO REMOVE WHEN IT IS REMOVED ON A REGULAR BASIS.

3. DISPOSAL OF MATERIAL FROM THE KSI SWTC ARE SIMILAR TO THAT OF ANY OTHER BEST MANAGEMENT PRACTICES (BMP). LOCAL GUIDELINES SHOULD BE CONSULTED PRIOR TO DISPOSAL OF THE SWTC CONTENTS. PETROLEUM WASTE PRODUCTS SHOULD BE REMOVED BY A LICENSED WASTE MANAGEMENT COMPANY.

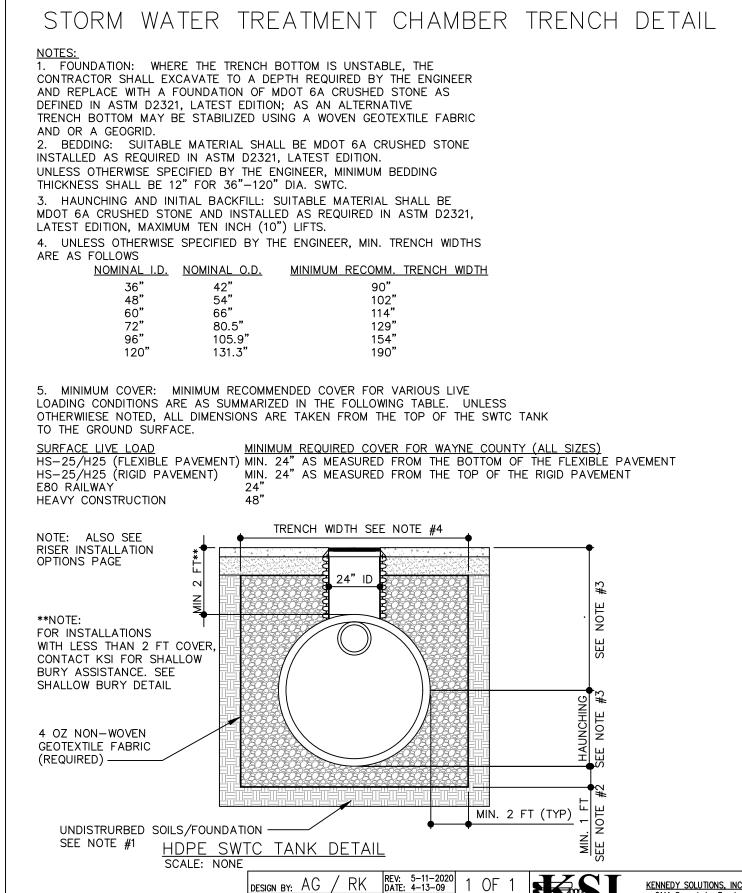
4. IF A HYDROCARBON REMOVAL SYSTEM WAS INSTALLED -REPLACE IT WHEN IT TURNS BLACK. UNIT CAN BE DISPOSED OF VIA NORMAL REFUSE REMOVAL. SPENT UNIT DOES NOT LEACH CAPTURED CONTAMINATES.

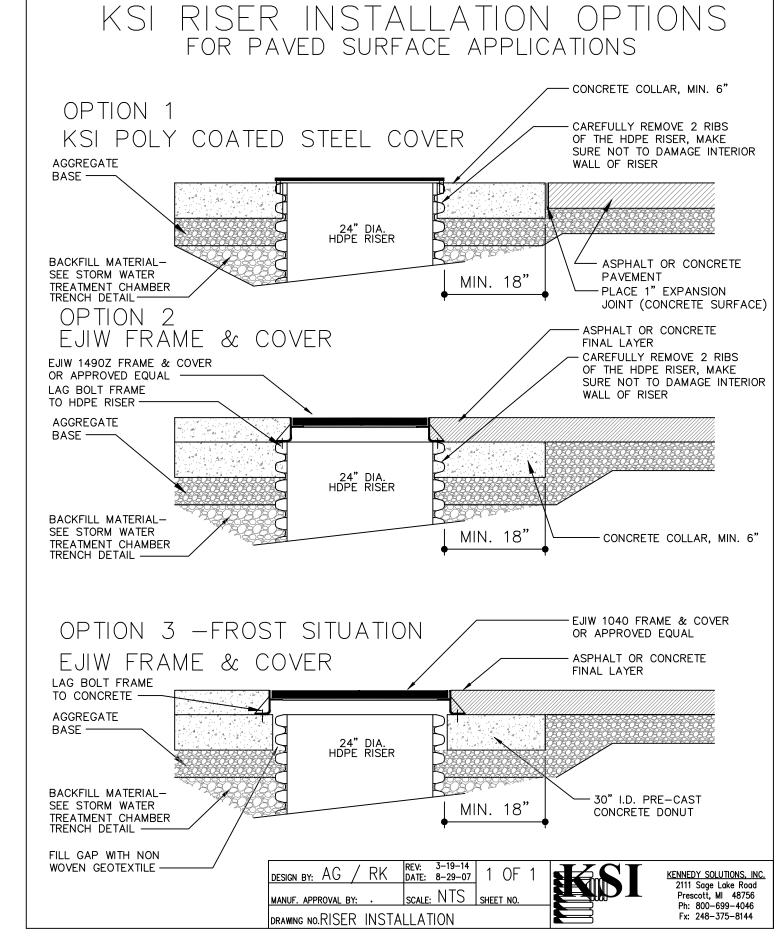
WHITE = NEW GREAY = WORKING BLACK = SPENT - NEEDS REPLACEMENT - CONTACT KSI FOR REPLACEMENT PARTS 5. AFTER CLEANING THE UNIT -KSI RECCOMMENDS REFILLING THE UNIT WITH WATER

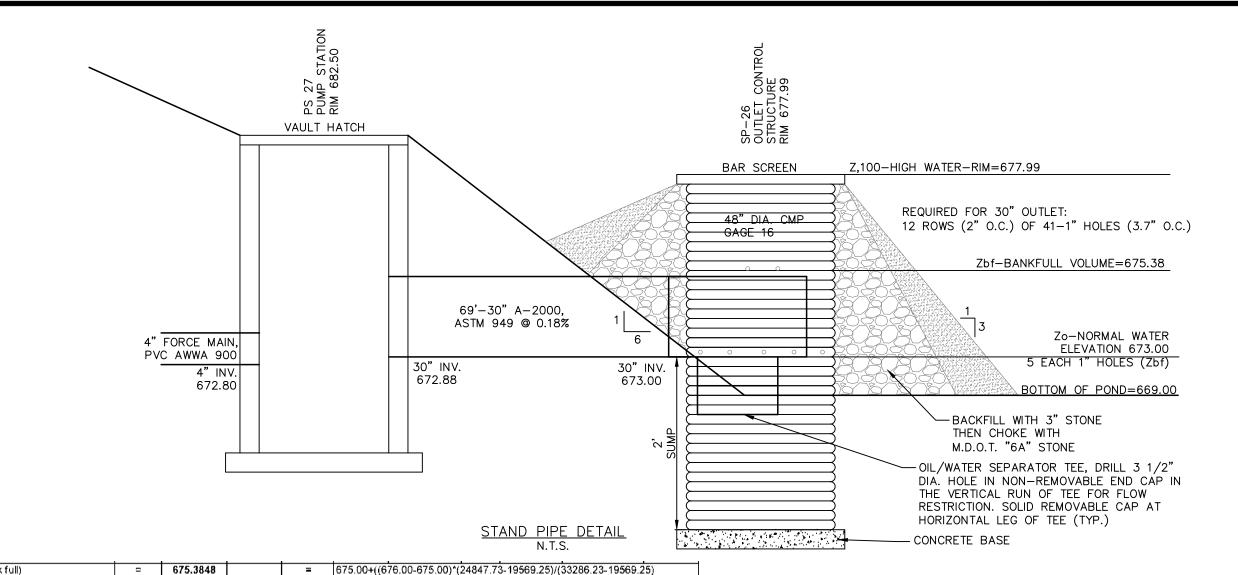
> DESIGN BY: AG / RK | REV: 5-11-2020 | 1 OF 1 SCALE: NTS SHEET NO.

DRAWING NO. SWTC INSTALL & MAINT.









Zbf ⊟evation (bank full)	=	675.3848		=	675.00+((6	376.00-675.00)*(24847.7	3-19569.25)/	(33286.23-1956	9.25)
Z,100 Elevation (high water)	=	677.9872		-	678.00+((6	78.00-677.00)*(69351.5	3)/(69490.89	-49846.38)	
						T		Ī	T	1
OUTLIET SIZING FOR BANK FULL FLOOD									1	_
Qavg (bf)	=	0.17255		-	Vt bf/1440	oo				
Havg bf	=	1.5907		_	0.667*(Zbf	-Zo)				
Aout bf	=	0.0275		_	Qavg bf/(0	.62*SQRT(2*g*H	avg))			
Dout bf	=	1,0000	in	_		sq ft			 	_
Hole #	=	5.0455		_	Aout/0.005					
Use		5	holes	@	673.00				 	+
Qavg (bf) (actual)	-	0.1710	cfs			.*(SQRT(2*g*Hav	(g))		+	
Tbf	-	40.3639	hours		Vt bf/(Qav		· ·		+	_
	 				,	1			1	
OUTLET SIZING FOR 100 YEAR FLOOD BA	SED ON F	UM PED OUT	FLOW OF 0.	.4479 CFS					+	
Qmax	=	0.4479	cfs		Qa				+	
Zout bf		673.0073			normal w a	ter+Dout bf				_
Hmax bf	=	4.9799		 	Z,100-Zou	t bf			 	
Aout bf (actual)	-	0.0273	sq ft			0545 (1" dia sq	ft)		 	
Qmax bf	=	0.3026	cfs			bf*(SQRT(2*g*F)	 	
Q,100 max	=	0.1453	cfs	<u> </u>	Qmax-Qma			Ì	+	+
D,100 out		1,0000	in	-	0.00545	sq ft			+	
Z,100 out		675.3903	""		Zbf+D,100				+	
H,100 max	 	2.5969	1			t (detention)			+	+
A,100 out		0.0181				/(0.62*(SQRT(2*	L a*H 100	max\\	+	_
Hole #	=	3.3251			A,100 out/		y 11,100	11 El A))	+	_
Use #	- -	2	holes	@		1			+	+
	=	0.0874	cfs			 0 out*(SQRT(2*¢	*11.100		+	
Q,100 avg (actual)		0.0874	CTS		(0.62 A, 10	u out"(SQRT(2°Ç	J.H. 100	пах))		
OLITE ET SIZING EOR 400 VEAR EL OOR RA	A CETY 2 EV	HOLEIN OIL (MATER CE	A DA TAD			Ι			
OUTLET SIZING FOR 100 YEAR FLOOD BA					0-	-				
Qmax Zout bf	=	0.4479 675.5000	cfs	_	Qa	ter+Dout bf			+	
	 									
Hmax bf	=	2.4872		-	Z,100-Zou					
Aout	=	0.0571	sq ft			*sqrt((2*g*h,max	())			_
Required Hole Size	=	0.2696	ft (diia)	_ =	sqrt*(Aout	"(4/3.14))				
Dout	=	3.2357	in							
Qmax	=	0.4479	cfs	-	0.62*Ao*(s	qrt(2*g*h))				
						ļ			_	
30" Outlet Pipe	└									
n	=	0.1300								
\$	=	0.0000								
Use Siope	=	0.1800	%							
V	=	3.5468	(from stm c	calcs)						
Pipe Length	=	69	ft							
Dow nstream Invert	=	672.8758								
Q	=	17.4015	cfs							
Check Capacity of Holes above Bank Fi	ull Using									
Erim	=	677.9900								
Ebf	=	675.3848								
Provided Height	=		ft		(Erim-Ebf)-					
Havg	=	1.7377			(Erim-Ebf)*					
Hole Dia	=	1.0000	in	=	0.00545	sqft			T	
Aout	=	2.6532			Q/(0.62*(\$	QRT(2*g*Havg))				
Hole #	=	486.8268		-	0.00545	sq ft				
Row # (12)	=	12								
Hole # per row	=	41							†	
Stand Pipe	=	48	in dia						 	
1" hole center to center (horizontal)	=	3.7152	in						 	
1" hole center to center (vertical)	=	0.1893	ft	-	Provided h	eight/Row #			1	
use	-	2	in			Ī			 	
									 	
Hbf avg	$\overline{}$	3.32647		 -	0.667*(Z,1	00-Zo)			+	
9	1									

(80% annual TSS removal based on particle size)

August 2019

	FLOW RATES	
Wayne County		
75 Micron	75 Micron	110 Micron
///.% cfs///	///2.2/sfs///	///2.3/cfs///
///2/3/cfs///	///2/9/cfs///	///3/0/cfs///
///33xts///	///A/xfs///	///A/2/ets///
///4.1/cfs///	///5/V98s///	///5/3/c/s///
///5,0/cfs///	///6/3/cfs///	///6/5/cs/s///
///6,2 ets///	///7,8 cts///	///8,X ets///
///4/s/s///	///Y.7/5/\$///	///y.5/ç/s///
///8/3/cfs///	/////s/s//	///XV:7/çXs///
///9,8 ¢fs///	///2/3/cfs///	///2,6,cfs//
11.3 As	14.1 xfs	14.5 As
13.8 cfs	17.2 cfs	17.7 cfs
//\63efs//	//20/A/efs///	//2X,80,efs///
// X 8/ \$ \$ \$ //	//23/5/s/s///	//24.3/c/s/
///20/0/cfs///	///25/2/6fs///	///25,8/cfs///
///22,80 ets///	///27.5 xfs///	//28,A ets//
//24.0/c/s///	///39/9/s/s///	///31/9/x/s///
//30,5 cfs//	//38/1.cfs///	///3936fs//
	75 Micron 1.8 cfs 2.3 cfs 3.8 cfs 4.1 cfs 5.0 cfs 8.3 cfs 13.8 cfs 13.8 cfs 14.8 cfs 12.8 cfs 24.9 cfs	Wayne County 75 Micron 1/8 cfs 1/2 cfs 1/3 cfs 1/3 cfs 1/4 cfs 1/4 cfs 1/4 cfs

All KSI modes will require some form of customization to meet site specific conditions. Please call KSI at 800-699-4046 for design assistance. Details and specifications are available. The peak flow rate of an off-line system treats approximately one quarter to one third of the peak storm event. These flow rates typically represent 90% to 95% of the total annual runoff volume. These models will remove greater than 90% of the free floating oils at the above design flow rates.

SITE DESIGN DATA				
Water Quality Flow Rate per Storm Sew	er Calculations	=	13.27	cfs
Peak Flow Rate for KSI HDPE Treatment	t Chamber	=	13.8	cfs
Return Period of Peak Flow		=	10	years

STAND PIPE (RISER):

1. RISERS AND OVERFLOW STRUCTURES SHOULD BE CONSTRUCTED OF 12-GAGE CORRUGATED METAL PIPE (CMP) CONFORMING TO ASTM A760 AND SHOULD BE MADE FROM ALUMINUM COATED SHEET CONFORMING TO AASHTO M274. THE USE OF THE CONTINUOUS WELDED SEAM PROCESS IN THE FABRICATING OF PIPE IS NOT PERMITTED. RISERS AND OVERFLOW STRUCTURES SHOULD HAVE A MINIMUM DIAMETER OF 36-INCHES.

= 17.12

= (0.62*Aout*(SQRT(2*g*H bf avg))

2. RISER HOLES SHOULD BE 1 INCH MINIMUM DIAMETER BUT NO LARGER IN SIZE THAN THE SURROUNDING STONE. THE HOLES SHOULD BE SPACED A MINIMUM OF 4 INCHES APART, ON CENTER, BOTH VERTICALLY AND HORIZONTALLY. THE HOLES SHOULD BE PRE-DRILLED PRIOR TO GALVANIZING. RISERS AND OVERFLOW STRUCTURES SHOULD HAVE A 2-FOOT DEEP SUMP AND A CONCRETE BASE OF 6-INCH MINIMUM THICKNESS. THE CONCRETE BASE SHOULD BE CONSTRUCTED OF EITHER PRE-CAST CONCRETE MEETING ASTM C478, OR CAST-IN-PLACE CONCRETE WITH A 28-DAY STRENGTH REQUIREMENT OF 3,500 PSI.

1 675.3848 2.60239 1.77464 1.77464 2 675.55148 2.43572 1.71687 3.49152

3 675,71815 2.26906 1.65709 5.14861 4 675.88481 2.10239 1.59508 6.74369 5 676.05148 1.93572 1.53055 8.27423

6 676.21815 1.76906 1.46317 9.73740

7 676.38481 1.60239 1.39254 11.12995 8 676.55148 1.43572 1.31814 12.44808

9 676.71815 1.26906 1.23927 13.68735

10 676.88481 1.10239 1.15503 14.84238

11 677.05148 0.93572 1.06414 15.90652

12 677.21815 0.76906 0.96473 16.87124

0.24953

Row Invert Holes

4. RISERS AND OVERFLOW STRUCTURES SHOULD BE SECURELY ATTACHED TO THE BASE. THEY MAY BE EMBEDDED IN CONCRETE OR AFFIXED BY AN APPROVED FASTENING METHOD. THE TOP OF RISERS AND OVERFLOW STRUCTURES SHOULD BE EQUIPPED WITH A STEEL GRATE. OPENINGS SHOULD BE A MINIMUM OF 3 INCHES SQUARE AND A MAXIMUM OF 4 INCHES SQUARE 6. STONE FILTER BACKFILL AROUND RISERS SHOULD CONSIST OF 3-INCH DIAMETER WASHED STONE, WITH AN OUTER BLANKET OF MOOT 6A STONE. THE SIDE SLOPE OF THE STONE BLANKET IS TYPICALLY 1:4.

7. THE BERM ON WHICH AN EMERGENCY SPILLWAY RESTS SHOULD BE MADE OF APPROVED MATERIAL FREE OF DEBRIS, ORGANIC

MATERIAL AND LARGE ROCKS (OVER 4 INCHES IN DIAMETER). 8. SUGGESTED OPTIONS FOR ARMORING SPILLWAYS INCLUDE RIP-RAP, TRI LOCK, GEOWEB WITH INFILL MATERIAL, AND REINFORCED TURF. 9. THE OUTLET "TEE" SHOULD BE EQUIPPED WITH A REMOVABLE CAP IN THE HORIZONTAL DIRECTION; THE VERTICAL LEG SHOULD SERVE AS AN OIL SEPARATOR. THE HORIZONTAL LEG OFTEN IS USED AS A CLEAN OUT. THE MINIMUM PREFERRED OUTLET PIPE DIAMETER IS 4 INCHES . AN ANT-SEEPAGE COLLAR SHOULD BE PROVIDED ON EACH OUTLET PIPE. THE ANTI-SEEPAGE COLLAR CONSISTS OF A WATERTIGHT JOINT; THE SPECIFICATIONS FOR WATERTIGHT JOINTS VARY DEPENDING ON THE TYPE OF MATERIAL USED FOR THE

WAYNE COUNTY R19-949 PLAN REVIEW

Revisions:	Lehner Associates, Inc.	Scale: NO SCALE
09-16-20 REV PER WCDPS L.A. 04-01-21 REV PER WCDPS L.A. 05-19-21 REV PER OHM FOR WCDPS L.A.	Civil Engineers Surveying Planning Consulting Serving Michigan Since 1912	Paper Size: 24"x36"
	17001 Nineteen Mile Road, Suite 3 Clinton Township, Michigan 48038	Date: 11-06-19
	o: 586.412.7050 f: 586.412.7114 www.lehnerassociates.com	Drawn By: L.A.
Client:	HAMPTON MANOR	Checked By: W.J.T.
SYED IMRAN LAND HOLDING LLC ZOHAIB SYED	OF VAN BUREN TOWNSHIP	Job No.: 19—249
1451 S. GRATIOT AVENUE CLINTON TOWNSHIP, MI 48035	STAND PIPE AND	Sheet No.
989-708-1878 zohaibsyed2001@yahoo.com	SEDIMENT STRUCTURE	
	PART OF THE NORTHWEST 1/4 OF SECTION 14, TOWN 3, SOUTH, RANGE 8 EAST, VAN BUREN TOWNSHIP, WAYNE COUNTY, MICHIGAN	14

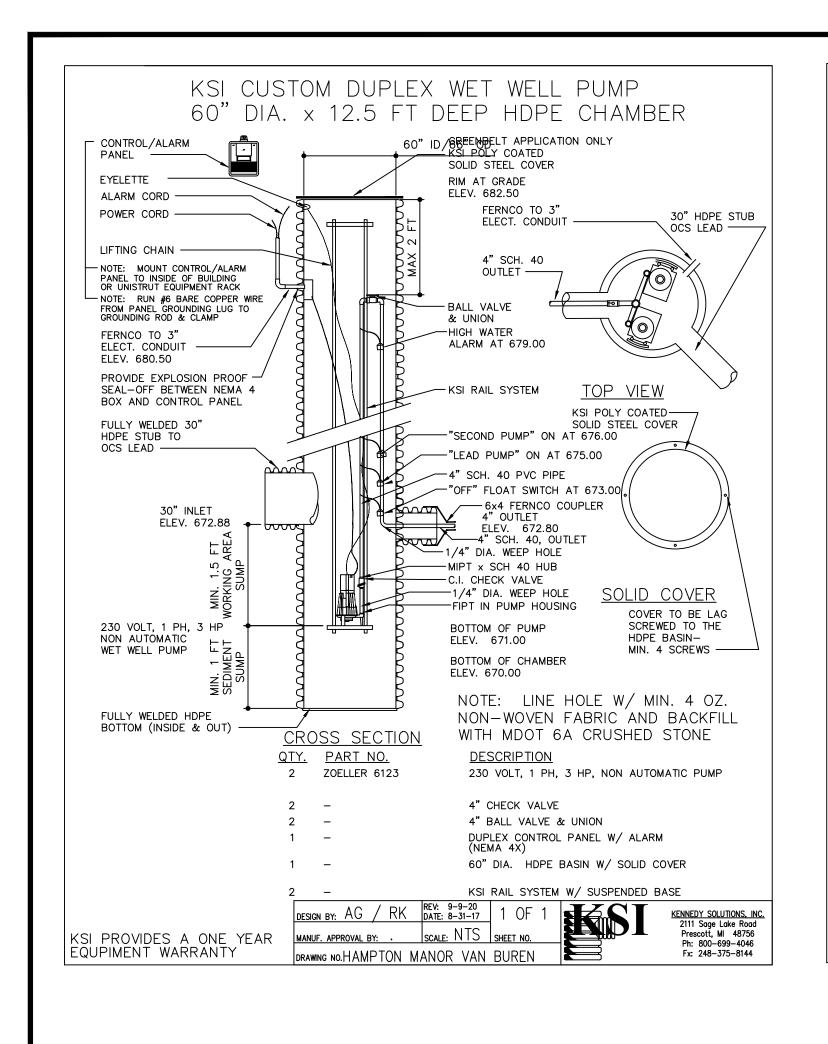
MECHANICAL TREATMENT UNIT AND OUTLET CONTROL STRUCTURE NOTES:

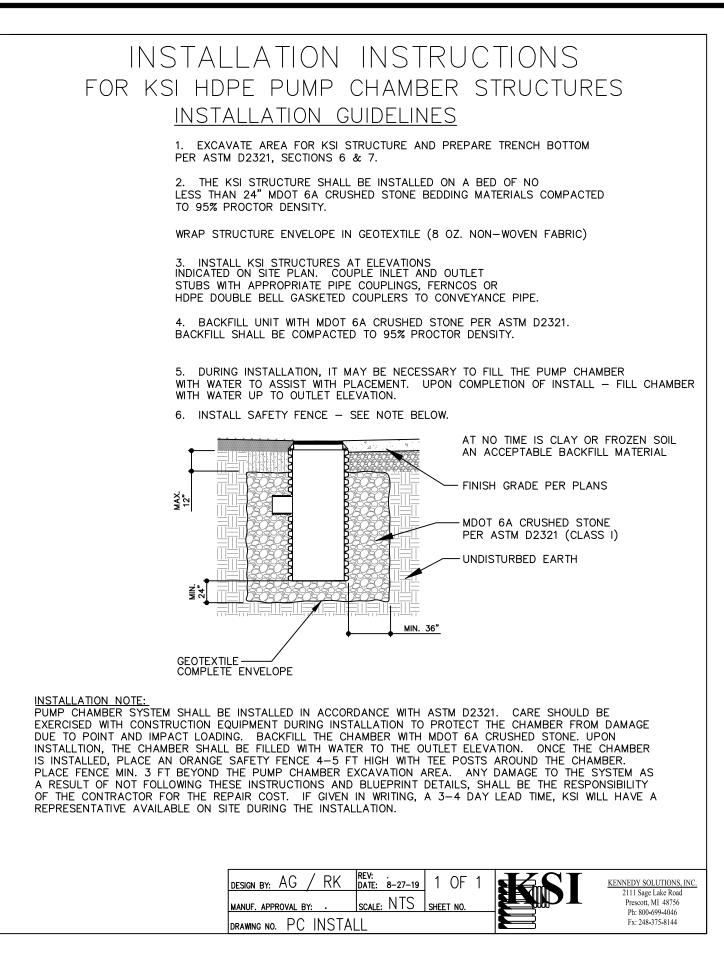
1. THE MANUFACTURER OF THE TREATMENT UNIT AND THE OUTLET CONTROL STRUCTURE MUST CONTACT THE WAYNE COUNTY TESTING OFFICE AT 734-858-2776 AT LEAST 3 WORKING DAYS PRIOR TO FABRICATION TO SCHEDULE FOR INSPECTION DURING MATERIAL 2. PRIOR TO INSTALLATION, STORM WATER MANAGEMENT SYSTEM COMPONENTS SHALL BE TESTED AND APPROVED BY THE WAYNE COUNTY TESTING OFFICE, AND OBSERVED DURING THE INSTALLATION BY WAYNE COUNTY ENGINEER. 3. ALL CMP RISER HOLES MUST BE PRE-DRILLED PRIOR TO RISER GALVANIZATION. MANUFACTURER OF CMP RISERS MUST CONTACT THE WAYNE COUNTY TESTING OFFICE AT 734-858-2776 AT LEAST 3 WORKING DAYS PRIOR TO FABRICATION TO SCHEDULE FOR INSPECTION 4. A WAYNE COUNTY PERMIT ENGINEER MUST OBSERVE INSTALLATION OF ALL BASIN RISERS AND OUTLET PIPE.

DRAWING NO. SWTC INSTALLATION DETAIL

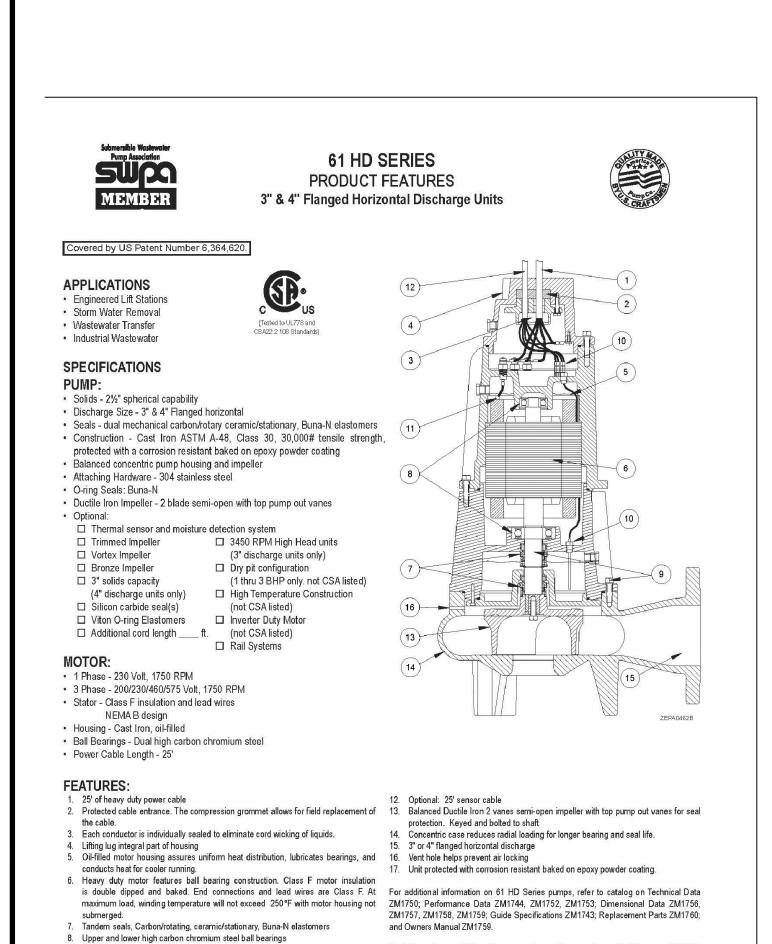
2111 Sage Lake Road Prescott, MI 48756

Ph: 800-699-4046 Fx: 248-375-8144





HAM PTON MANOR OF VAN BUREN TOWNSHIP PE	KOPUSED STO	KM SEWER PUMP	STATION									
BASIS OF DESIGN												
										OUTLET PIPE		
DRAIN POND IN 40 HOURS							POND HIGH WATER	PUMP OFF	PUMP ON	SIZE (IN)	OUTLET INV.	
692 39 .55	C.F.	x 7.48 GAL/FT.	=	517911.85			677.99	673.00	675.00	4	678.50	678.67
517911.85	GAL/DAY	/2400 (40 HOURS)	=	216	GPM							
HEAD LOSS - 4" Force Main			(TOTAL)									
DYNAMIC HEAD		QUANTITIY	EQUIV LENGTH				EQUIV LENGTH					
4" PIPE	=	346	346	FT			<u>Lagrir LL 10111</u>			-		
90° BEND (4")		3	30.3	FT			10.10			-		
4" CHECK VALVE		1	33.6	FT			33.6					
4" VALVE		1	2.7	FT			2.7					
4" TEE		1	22	FT			22.0					
22 1/2° BEND, VERTICAL (4")		2	6	FT			3.0					
TOTAL LENGTH		2	440.6	FT			3.0					
HEAD LOSS PER 100 FT	=	4,47	#40.8 FT	F1								
DY NAMIC HEAD	=	19.69	FT									
STATIC HEAD												
MINIMUM(CL OUTLET-HIGH WATER)	=	0.68	FT									
MAXIMUM(CLOUTLET-PUMP OFF)		5.67	FT									
TOTAL DVALLED USAD												
TOTAL DYNAMIC HEAD		00.07			ļ							
MINIMUM	=	20.37	FT									
MAXIMUM	=	25.36	FT									
ACTUAL PUMP OUTFLOW	=	201	GPM	@	25.6	ft/head						
(Zoeller 6123) (Qpump)	=		cfs	 								
										•		•
SYSTEM FRICTION LOSSES	4111111400	DVALABIOLI										
FLOW	4"HL/100	DY NA MIC HL										
100	1.23	5.42										
150	2.61	11.50										
200	4.43	19.52										
250	6.71	29.56										
300	9.38	41.33	J									
SYSTEM CURVE DATA					1							
	LEVATION	STATIC HEAD	<u>TDH</u>	FLOW	1							
HIGH WATER	677.99	0.68	25.6	200	1							
	677.00	1.67	24.0	195	1							
	676.00	2.67	23.5	190	1							
	675.00	3.67	23.0	185	1							
	674.00	4.67	22.5	180	1							
NORMAL WATER/PUMP OFF	673.00	5.67	21.5	175]							
DOND DOMA TED TIME (40 HOUSE)						T	7					
POND DEWATER TIME (40 HOURS)		1			ļ		4					
VOLUME x 7.48 = GAL, PER DAY			1	1	I		1					
		†				 	-1					
GAL. PER DAY/60 = GPM GPWFLOW = TIME							1					

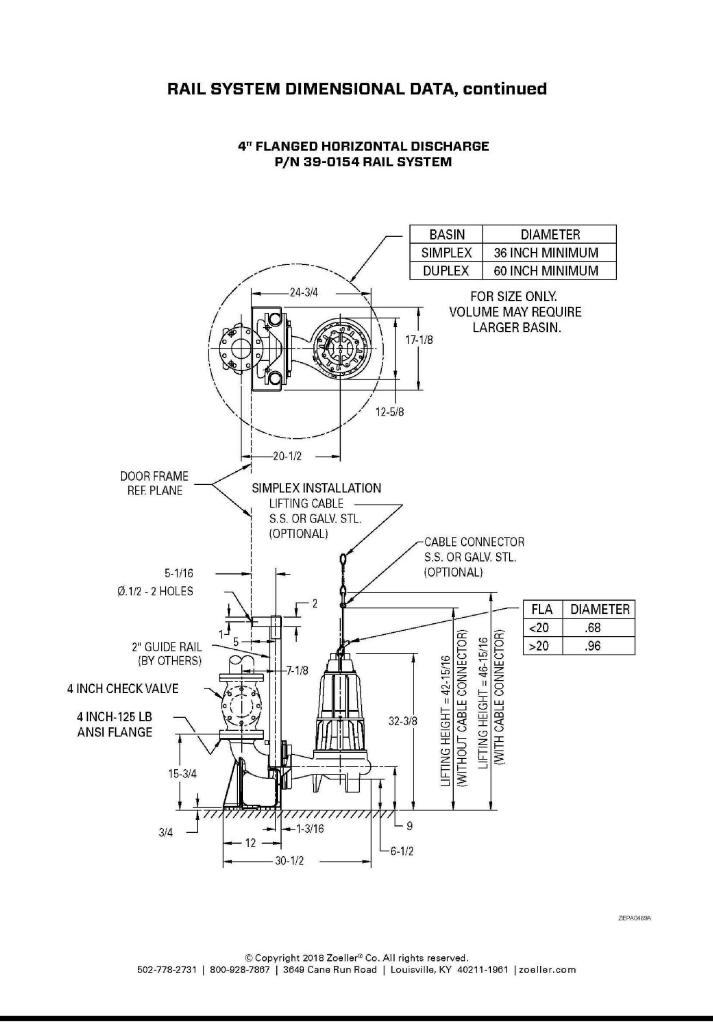


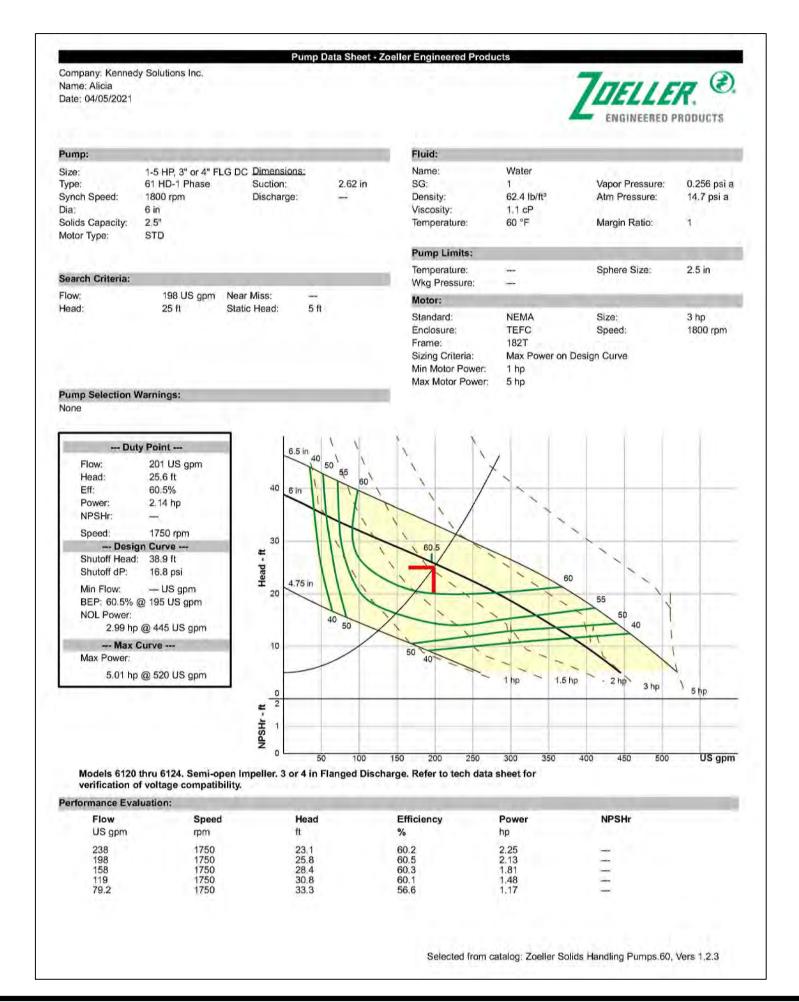
10. Optional: Patented moisture detection system with upper and lower probes, Control Panels, ZM1342; Float Switches and J-Boxes, ZM1536; Float Switch Brackets,

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For information on additional Zoeller products refer to catalog on Rail Systems, ZM1347;

ZM1328; Pump Lifting Cables, ZM1328; Check Valves and Piping Accessories, ZM1348.





VOLUME

19644.51

13716.99

11085.01

8484.24

ELEVATION

678.00

677.00

676.00

675.00

674.00

673.00

FLOW

195

180

TOTAL

TIME(MIN)

12.25

10.59

9.00

7.47

5.88

45.18

HOURS

Qa (allow able)	=	0.9578	cfs	= 0.15*A	
Qa (allow able)(Morton Taylor Road)	=	0.5077	cfs	= 0.103*frontage/100	
Qa (allow able)(Tyler Road)	=	0.5026	cfs	= 0.103*frontage/100	
Qa (Van Buren Twp.)	=	0.6385	cfs	= 0.10*A	
Qa (Pumped)	=	0.4479	cfs	= Pump Outflow	
Qa (use smaller value)	=	0.4479	cfs		

DUPLEX PUMP STATION NOTES:
ONE PUMP SHALL HAVE THE CAPACITY REQUIRED TO DISCHARGE THE ALLOWABLE
OUTFLOW SHOWN IN PUMP CALCULATIONS AND AN ALTERNATOR SHALL BE PROVIDED
TO ALTERNATE PUMPS EVERY OTHER CYCLE.

Revisions:	Lehner Associates, Inc.	Scale: NO SCALE
09-16-20 REV PER WCDPS L.A. 04-01-21 REV PER WCDPS L.A. 05-19-21 REV PER OHM FOR WCDPS L.A.	Civil Engineers Surveying Planning Consulting	
Client:	HAMPTON MANOR	Checked By: W.J.T.
SYED IMRAN LAND HOLDING LLC ZOHAIB SYED	OF VAN BUREN TOWNSHIP	Job No.: 19—249
1451 S. GRATIOT AVENUE CLINTON TOWNSHIP, MI 48035	PUMP STATION	Sheet No.
989-708-1878 zohaibsyed2001@yahoo.com		15
,	PART OF THE NORTHWEST 1/4 OF SECTION 14,	

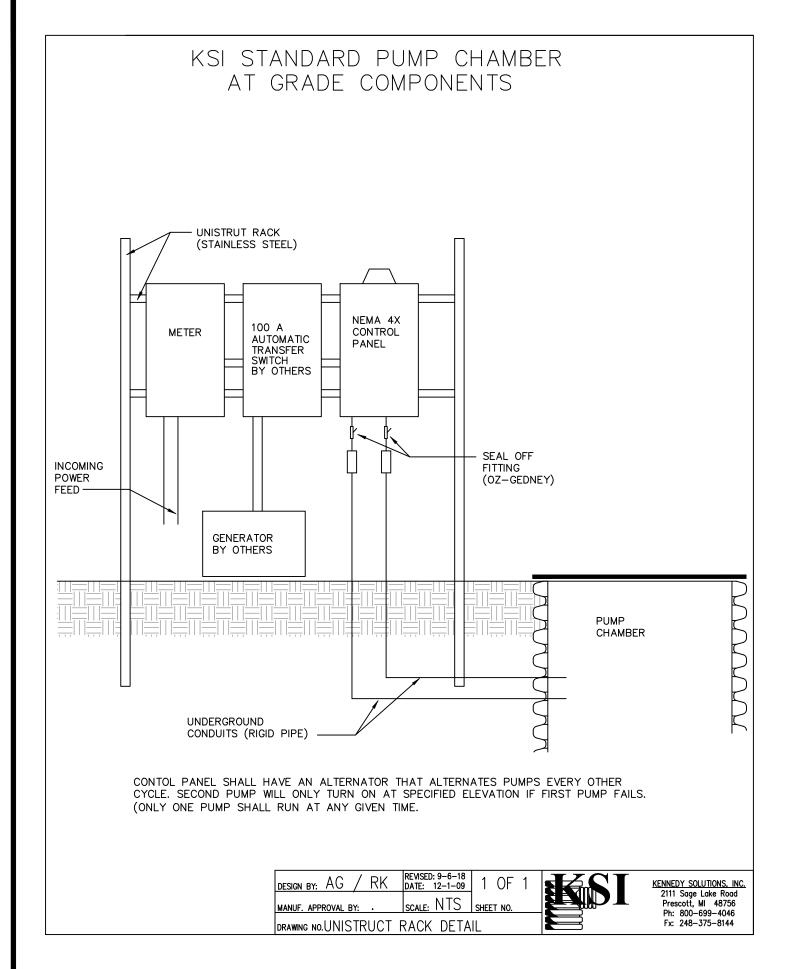
F:\19\19-249\Drafting & Engineering\Engineering\19-249-13-16-Pond-Pump.dwg, 15-Pump, 5/19/2021 8:41:11 A

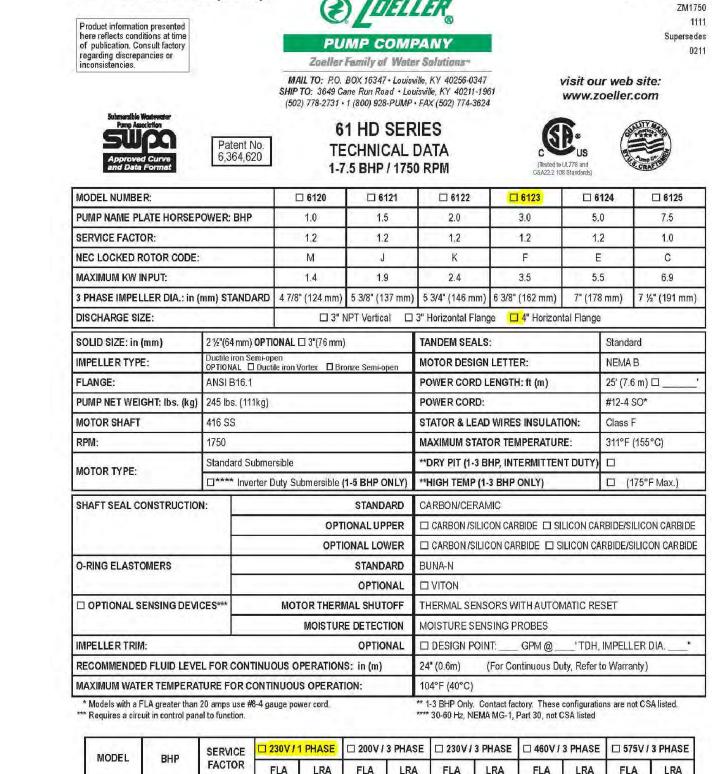
9. Stainless steel shaft and hardware resists corrosion

11. Optional: Thermal sensor protection. Motors have 2 normally closed temperature

protecting the motor from liquid entry.

sensors imbedded in windings.





Your Peace of Mind is Our Top Priority®

SECTION: Z2.10.110

Trusted. Tested. Tough.™



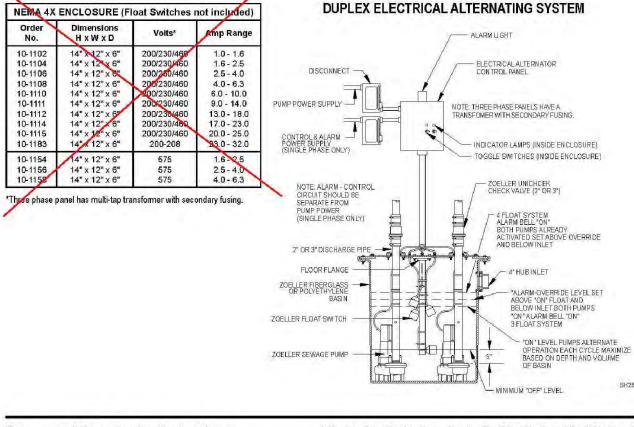
SECTION: 2.50.040

FM0486

Supersedes

* Branch circuit protection provided by installing electrician. Products may not be exactly as illustrated NOTE: 600 and X600 Series single phase pumps require special panels that include start components. See Selection Guide FM0712 for correct panel selection. NOTE: All variable level float switches in this section are mechanically activated and do not contain mercury.

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uence of Operation for Duplex Panel	5.
Operation can begin after the following:	
Correct voltage is supplied to Panel	
Panel is properly grounded	

- Paner is properly grounded
 Pumps are connected correctly to Panel - Panel Circuit Breakers are dosed - Floats are installed properly - Overload Protection is adjusted to Pump nameplate amps - Pump HOA Switches are set to "Auto"
- Control On/Off Switch is set to "On" 2. When the "Stop" and "Lead" floats are closed Pump 1 will energize and the Pump 1 Pump Run Light will illuminate. Pump 1 will remain
- operational until the "Stop" float opens. 3. The next time the "Stop" and "Lead" floats are closed the Alternating Circuit will energize Pump 2 and the Pump 2 Pump Run Light will illuminate. Pump 2 will remain operational until the "Stop" float opens.
- This cycle will repeat each time the fluid level rises and falls. 4. If the fluid level continues to rise after the first pump has been ener gized the "Lag" float will close. When the "Lag" float has closed the second Pump will Energize. Both Pumps will remain operational until the "Stop" float opens.

In a three float system when the "Lag" float is closed the following will

- The External High Water Light will illuminate - The Audible High Water Horn will sound - The Auxiliary Dry Contacts will close

- In a four float system, the alarm float should be the third float causing an alarm to sound when the lead pump fails to operate or the rate of in flow into the basin exceeds the capacity of one pump. When the alarm float is closed the following will occur. - The External High Water Light will illuminate - The Audible High Water Alarm will sound
- The Auxiliary Dry Contacts will close As the liquid level continues to rise the fourth float will close, energizing the lag pump. The lag pump and the lead pump will remain energized until the "Stop" float opens.
- NOTE: In Duplex systems where it is considered normal for two pumps to operate in tandem during peak flow conditions, the third and fourth float may be reversed. The Audible High Water Horn can be silenced by pressing the Alarm

Silence Button. When the "Alarm" float opens the External High Water Light, Audible High Water Horn and Dry Auxiliary Contacts will be reset.

▲ WARNING All electrical systems must be installed by a qualified licensed electrician and according to the National Electrical Code. (See section 430-71 through 430-113 plus any others that apply) Refer to FM0712 for correct selection of Electrical Alternator.

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KSI Pump Chamber Floatation Resistance Calculations

There are many factors involved in resisting the floatation forces of a buried KSI Pump Chamber. Each of the following are involved in holding the pump chamber in place.

- 1. The weight of all the parts of the pump, pump chamber and pump lid.
- 2. The inlet and outlet of the pump chamber must break away before the chamber could rise up.
- 3. The friction between the chamber shell and the surrounding backfill also acts to hold the chamber in place.

4. The rings spread the load to a much larger volume of soil. In the same way that loads transferred down into the soil spread out, a load transmitted to the backfill by the rings spreads out. This results in a conical shaped section of soil resting on each ring. The angle of the cone is based on the type of backfill used. In general, any Class I or II backfill will result in an angle of repose of 25-35 degrees. Conservative engineering practice normally dictates the use of an angle of repose at 16 degrees. This is very conservative, unless flowing soils, such as quicksand or flowing silts, are used as backfill. In general, any soil which can be compacted will have an angle of repose of greater than 16 degrees.

The following demonstrates how each of the forces acts to hold the pump chamber in place.

An 12'-6" high KSI Pump Chamber is installed and backfilled with MDOT 6A crushed stone. Although it is unlikely, we will assume a groundwater table up to the top of the lid and assume that the chamber is empty.

Volume of the Chamber

The Chamber will be constructed using 60" ID/66" OD SLCPP HDPE pipe with fully welded bottom and stubs. The overall

height will be 12'-6".

r = 2.75 ft. h = 12.5 $V = \prod r2h$ r = radius and h = height

$V = \prod (2.75)212.5$ V = 296.98 cubic feet

Assuming ground water up to the top of the chamber lid, the total uplift or floatation force on the chamber is Volume of Chamber X Weight of Water

Total Uplift Force = 296.98 CF x 62.4 lbs./CF Total Uplift Force = 18,531 lbs.

The forces and weights which resist this floatation force are as follows:

1. Weight of complete pump chamber

500 lbs 40 lbs Rail System Pump & accessories 600 lbs

Assuming a conservative 16 degree angle of repose.

Total weight of complete pump chamber is 1490 lbs.

2. We will not be taking into account the shear force at the inlet and outlet.

Although this force could be several thousand pounds, it is dependent on type and size of pipe used.

3. The frictional resistance between the chamber and the backfill material also are highly variable and is not included in this analysis.

4. The volume of the soil in the conical shaped section which resists the movement of the chamber can be calculated as

Volume of Full Conical Section (see fig. 1)

Vf = <u>∏r2h</u>

need to solve for the radius Tan 16° = <u>r1</u>

r1 = Tan 16° h h= height and x = portion of radius

r1 = Tan 16° x 12.5' = 3.584

add additional radius (radius of chamber) r = 3.584 + 2.75 = 6.33

solve for overall depth of conical section (h1)

h1 = 6.33' ÷ Tan 16° h1 = 22.09' Tan 16° = <u>r</u>

Vf = <u>∏r2h</u> $Vf = \prod (6.33')2(22.09') = 927 \text{ cf}$

Volume of bottom portion of conical section need to solve for the height (h2)

Tan 16° = <u>r</u>

 $h2 = r \div Tan 16^{\circ}$ h2 = height and r = radius

h2 = 2.75 ÷Tan 16° = 9.59

Volume of Chamber = 296.98 cf

Total volume of soil bearing on pump chamber

927 cf - 75.95 cf - 296.98 cf = 554.07 cf Weight of soil = 100 lbs/cf (conservative number)

Total weight of soil bearing on pump chamber

554.07 cf x 100 lbs/cf = 55,407 lbs

Total weight of complete pump chamber + weight of soil = Downward force 1490 lbs. + 55,407 lbs. = 56,897 lbs.

Downward force must be greater than uplift force.

56,897 lbs. > 18,531 lbs. SF = 3.07

KSI Pump Chamber will not float even when assuming that groundwater is at the top of the lid.

 $Vp = \frac{(2.75)2(9.59)}{(2.75)2(9.59)} = 75.95 \text{ cf}$

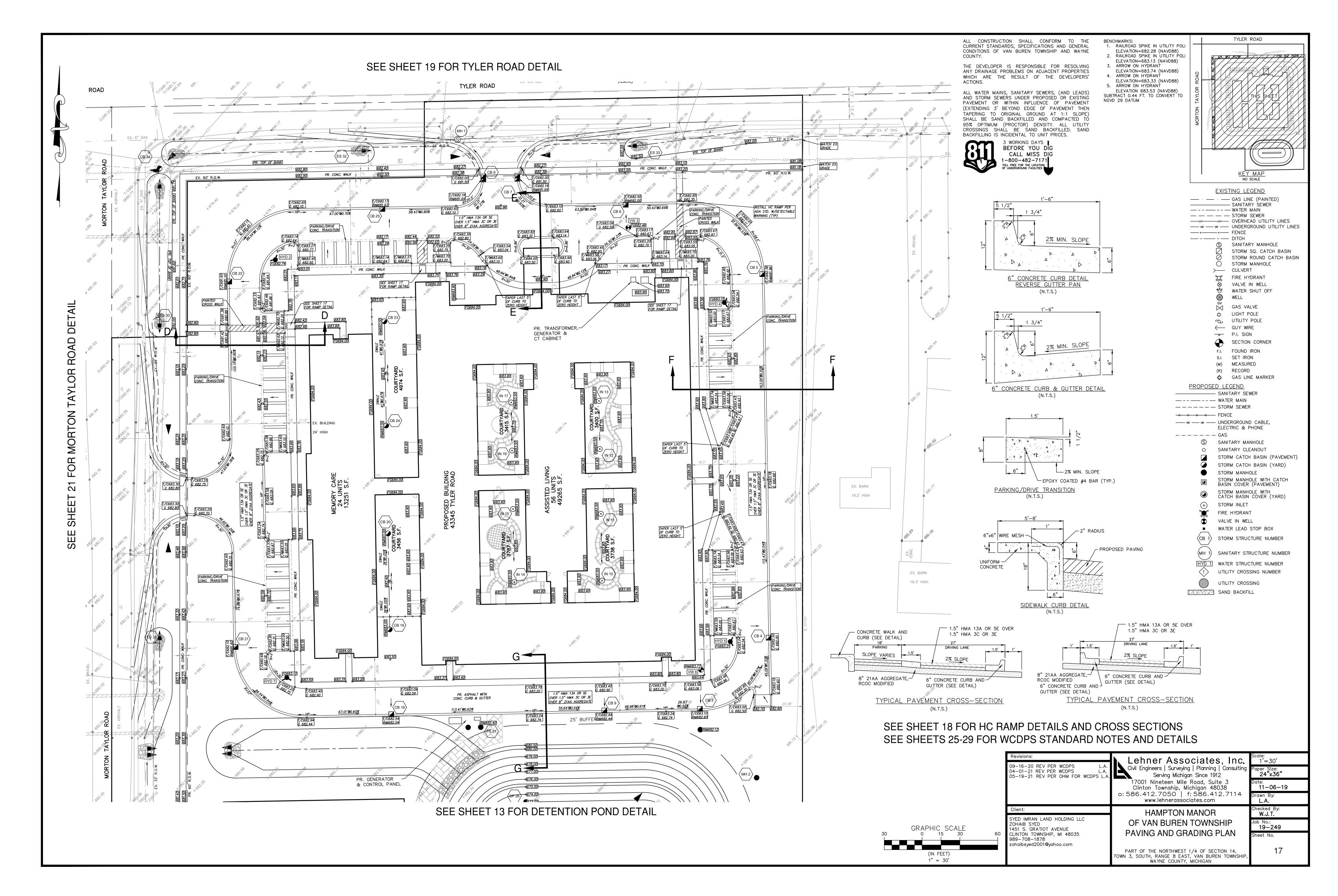
FIGURE 1 DRAWING NO. STRUCTURE FIGURE

Lehner Associates, Inc NO SCALE 09-16-20 REV PER WCDPS ackslash Civil Engineers | Surveying | Planning | Consulting aper Size: 24"x36" 04-01-21 REV PER WCDPS Serving Michigan Since 1912 05-19-21 REV PER OHM FOR WCDPS L.A. 7001 Nineteen Mile Road, Suite 3 11-06-19 Clinton Township, Michigan 48038 o: 586.412.7050 | f: 586.412.7114 www.lehnerassociates.com HAMPTON MANOR W.J.T. SYED IMRAN LAND HOLDING LLC OF VAN BUREN TOWNSHIP ZOHAIB SYED 19-249 1451 S. GRATIOT AVENUE PUMP STATION CLINTON TOWNSHIP, MI 48035

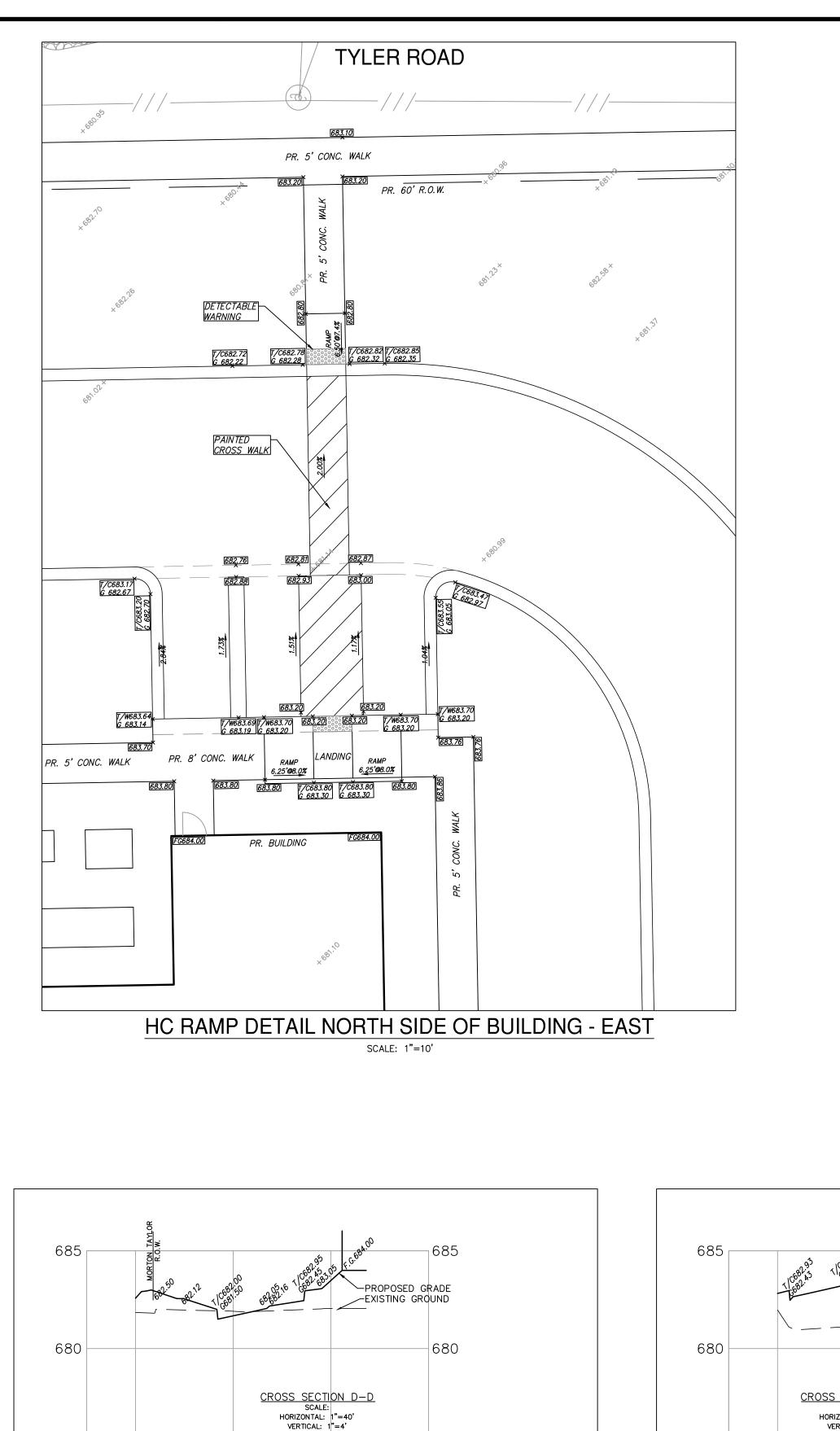
> PART OF THE NORTHWEST 1/4 OF SECTION 14. OWN 3, SOUTH, RANGE 8 EAST, VAN BUREN TOWNSHIF WAYNE COUNTY, MICHIGAN

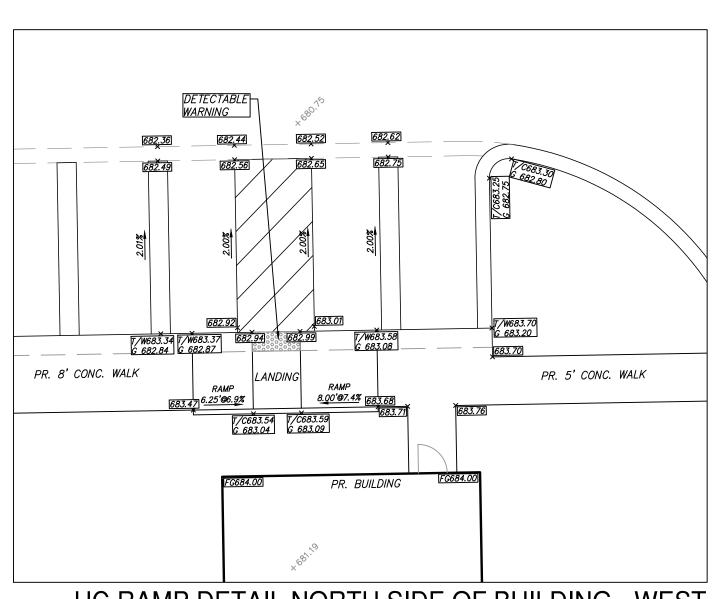
WAYNE COUNTY R19-949 PLAN REVIEW Revisions:

989-708-1878 zohaibsyed2001@yahoo.com

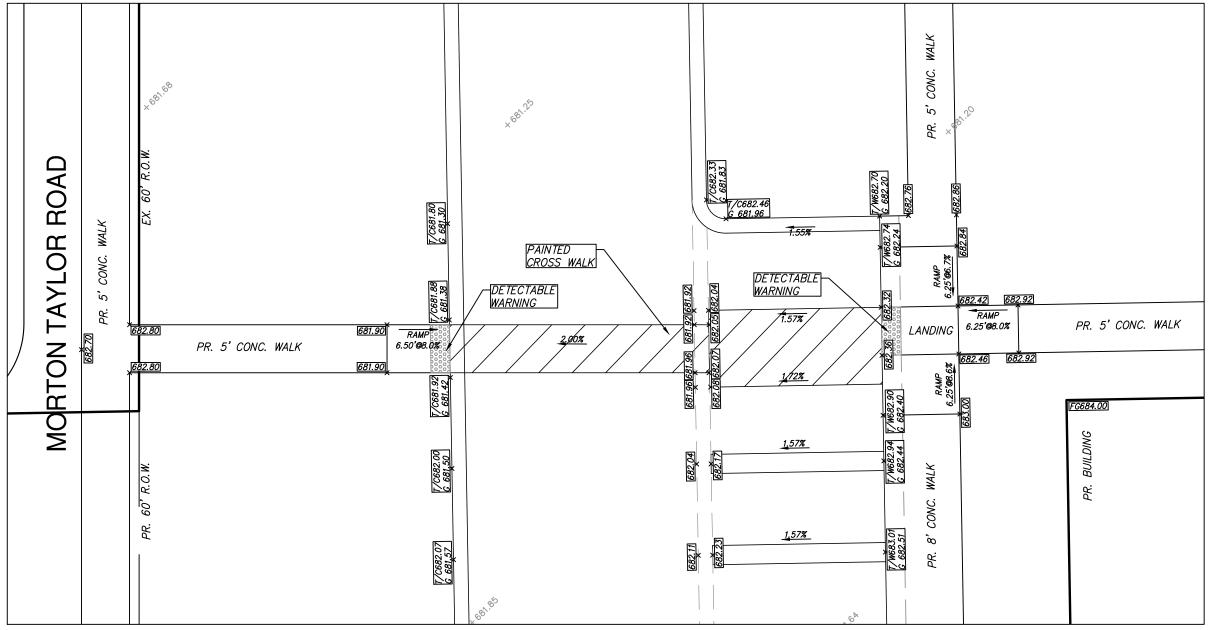


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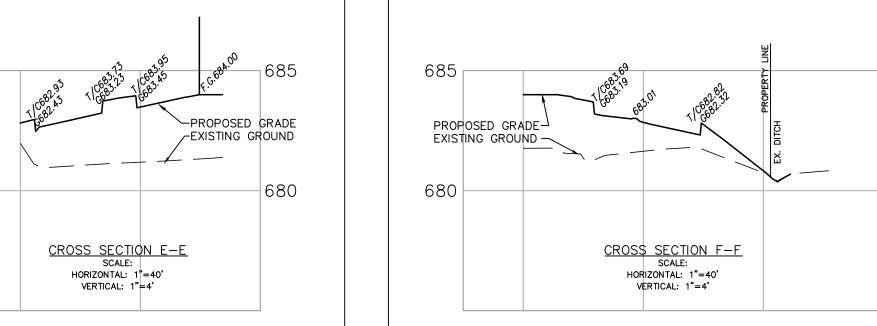


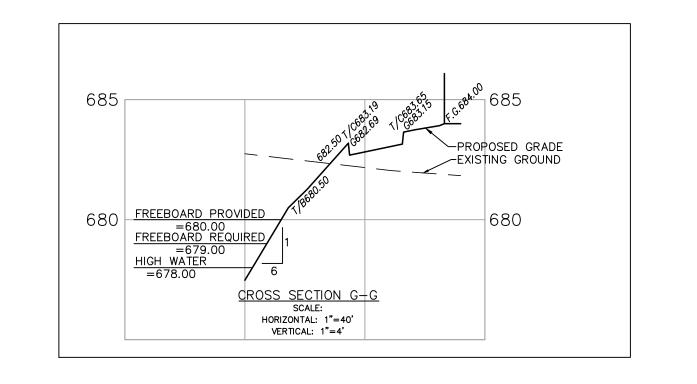
HC RAMP DETAIL NORTH SIDE OF BUILDING - WEST



HC RAMP DETAIL WEST SIDE OF BUILDING

SCALE: 1"=10'





WAYNE COUNTY R19-949 PLAN REVIEW

05-19-21 REV PER OHM FOR WCDPS L.A.

09-16-20 REV PER WCDPS 04-01-21 REV PER WCDPS

SYED IMRAN LAND HOLDING LLC

1451 S. GRATIOT AVENUE CLINTON TOWNSHIP, MI 48035 989-708-1878

zohaibsyed2001@yahoo.com

Revisions:

ZOHAIB SYED

ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS, SPECIFICATIONS AND GENERAL CONDITIONS OF VAN BUREN TOWNSHIP AND WAYNE

THE DEVELOPER IS RESPONSIBLE FOR RESOLVING

ANY DRAINAGE PROBLEMS ON ADJACENT PROPERTIES

WHICH ARE THE RESULT OF THE DEVELOPERS'

ALL WATER MAINS, SANITARY SEWERS, (AND LEADS) AND STORM SEWERS UNDER PROPOSED OR EXISTING

PAVEMENT OR WITHIN INFLUENCE OF PAVEMENT (EXTENDING 3' BEYOND EDGE OF PAVEMENT THEN TAPERING TO ORIGINAL GROUND AT 1:1 SLOPE) SHALL BE SAND BACKFILLED AND COMPACTED TO

95% OPTIMUM (PROCTOR) DENSITY. ALL UTILITY CROSSINGS SHALL BE SAND BACKFILLED. SAND BACKFILLING IS INCIDENTAL TO UNIT PRICES.

3 WORKING DAYS
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1-800-482-7171
TOLL FREE FOR THE LOCATION
OF UNDERGROUND FACILITIES

SANITARY MANHOLE STORM SQ. CATCH BASIN STORM ROUND CATCH BASIN STORM MANHOLE → CULVERT FIRE HYDRANT VALVE IN WELL WATER SHUT OFF WELL GAS VALVE LIGHT POLE UTILITY POLE ← GUY WIRE - P.I. SIGN SECTION CORNER FOUND IRON s.i. SET IRON (M) MEASURED (R) RECORD GAS LINE MARKER PROPOSED LEGEND ----- SANITARY SEWER — -- — -- WATER MAIN —————— STORM SEWER FENCE —— us —— us —— UNDERGROUND CABLE. ELECTRIC & PHONE ----- GAS S SANITARY MANHOLE O SANITARY CLEANOUT STORM CATCH BASIN (PAVEMENT) STORM CATCH BASIN (YARD) STORM MANHOLE STORM MANHOLE WITH CATCH BASIN COVER (PAVEMENT) STORM MANHOLE WITH CATCH BASIN COVER (YARD) STORM INLET FIRE HYDRANT VALVE IN WELL WATER LEAD STOP BOX (CB 1) STORM STRUCTURE NUMBER SANITARY STRUCTURE NUMBER HYD 1 WATER STRUCTURE NUMBER 1) UTILITY CROSSING NUMBER UTILITY CROSSING 医乳球管管管型 SAND BACKFILL cale: VARIES Lehner Associates, Inc Civil Engineers | Surveying | Planning | Consulting Serving Michigan Since 1912 Paper Size: 24"x36" 17001 Nineteen Mile Road, Suite 3 11-06-19 Clinton Township, Michigan 48038 o: 586.412.7050 | f: 586.412.7114 Drawn By: www.lehnerassociates.com L.A. Checked By **W.J.T.** HAMPTON MANOR OF VAN BUREN TOWNSHIP 19-249 HC RAMP DETAILS Sheet No. AND CROSS SECTIONS 18 PART OF THE NORTHWEST 1/4 OF SECTION 14, TOWN 3, SOUTH, RANGE 8 EAST, VAN BUREN TOWNSHIP,
WAYNE COUNTY, MICHIGAN

TYLER ROAD

<u>KEY MAP</u>

EXISTING LEGEND

— · — · GAS LINE (PAINTED)

______ SANITARY SEWER ____ - _ _ _ _ WATER MAIN ___ _ _ _ STORM SEWER

----×------ FENCE

— - — — DITCH

1. RAILROAD SPIKE IN UTILITY POLI

ELEVATION=683.74 (NAVD88)

ELEVATION=683.33 (NAVD88)
. ARROW ON HYDRANT

ELEVATION 683.53 (NAVD88) SUBTRACT 0.44 FT. TO CONVERT TO

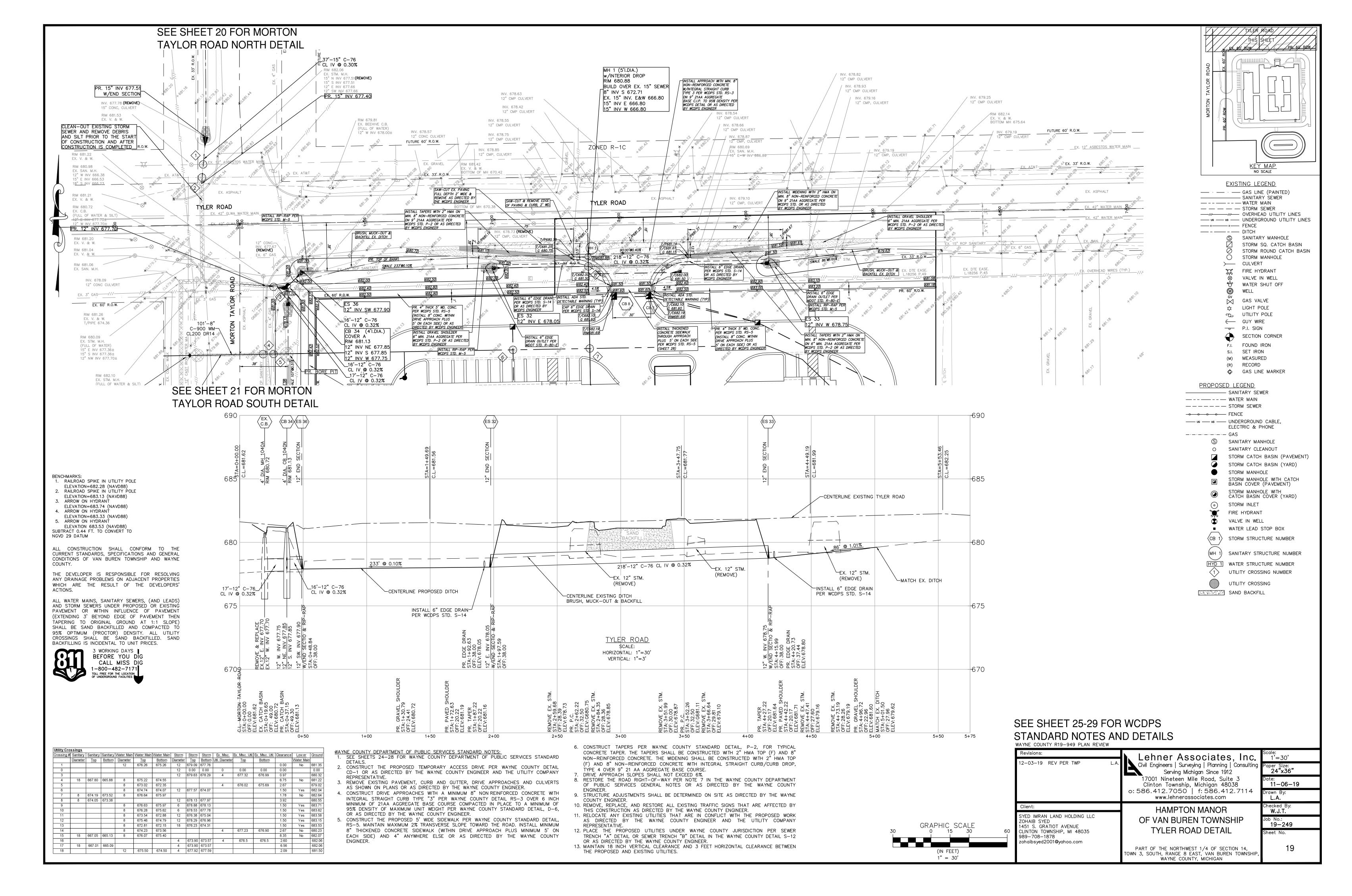
ARROW ON HYDRANT

4. ARROW ON HYDRANT

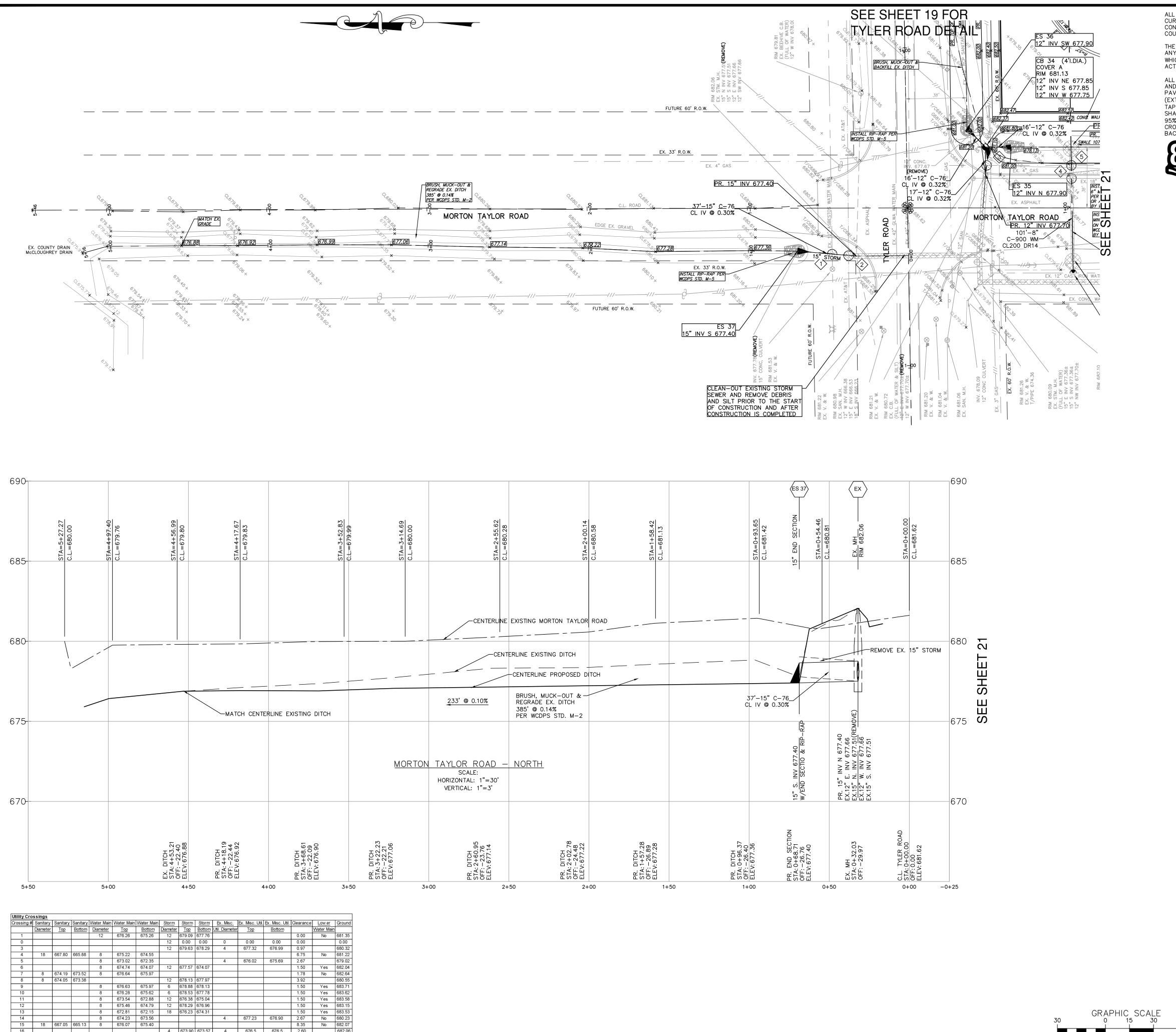
NGVD 29 DATUM

ELEVATION=682.28 (NAVD88)

RAILROAD SPIKE IN UTILITY POLI ELEVATION=683.13 (NAVD88)



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12 675.50 674.50 4 677.92 677.59

ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS, SPECIFICATIONS AND GENERAL CONDITIONS OF VAN BUREN TOWNSHIP AND WAYNE

THE DEVELOPER IS RESPONSIBLE FOR RESOLVING ANY DRAINAGE PROBLEMS ON ADJACENT PROPERTIES WHICH ARE THE RESULT OF THE DEVELOPERS'

ALL WATER MAINS, SANITARY SEWERS, (AND LEADS) AND STORM SEWERS UNDER PROPOSED OR EXISTING PAVEMENT OR WITHIN INFLUENCE OF PAVEMENT (EXTENDING 3' BEYOND EDGE OF PAVEMENT THEN TAPERING TO ORIGINAL GROUND AT 1:1 SLOPE) SHALL BE SAND BACKFILLED AND COMPACTED TÓ 95% OPTIMUM (PROCTOR) DENSITY. ALL UTILITY CROSSINGS SHALL BE SAND BACKFILLED. SAND BACKFILLING IS INCIDENTAL TO UNIT PRICES.

> 3 WORKING DAYS BEFORE YOU DIG CALL MISS DIG

1-800-482-7171 TOLL FREE FOR THE LOCATION OF UNDERGROUND FACILITIES

ELEVATION=682.28 (NAVD88)
2. RAILROAD SPIKE IN UTILITY POLI ARROW ON HYDRANT

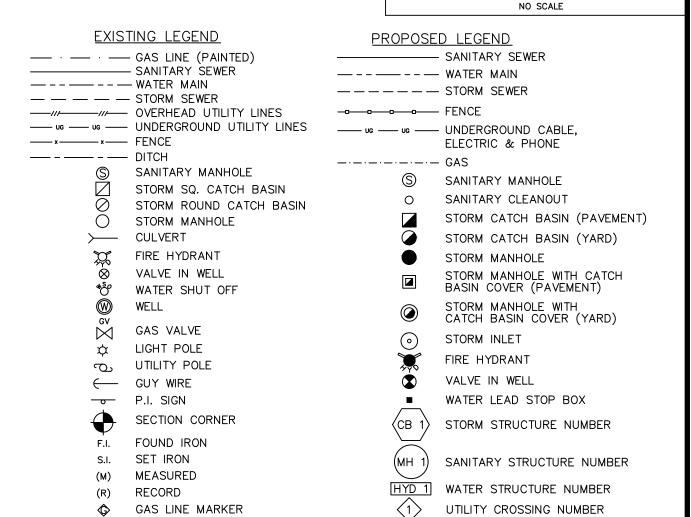
ELEVATION=683.13 (NAVD88) ELEVATION=683.74 (NAVD88)

4. ARROW ON HYDRANŤ ELEVATION=683.33 (NAVD88) 5. ARROW ON HYDRANT ELEVATION 683.53 (NAVD88) SUBTRACT 0.44 FT. TO CONVERT TO

NGVD 29 DATUM

1. RAILROAD SPIKE IN UTILITY POLI <u>KEY MAP</u>

TYLER ROAD



WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES STANDARD NOTES:

1. SEE SHEETS 24-28 FOR WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES STANDARD

UTILITY CROSSING

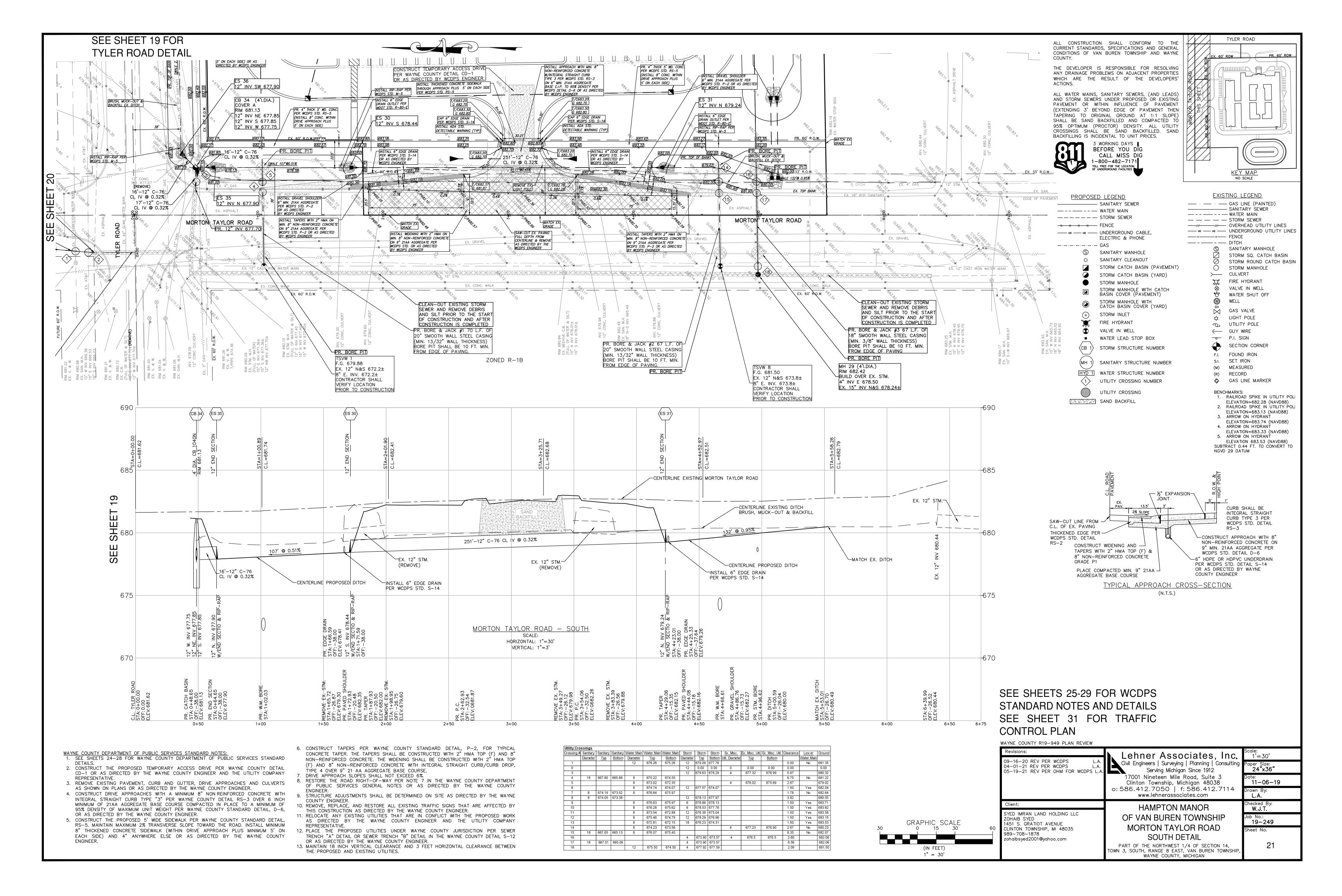
SAND BACKFILL

- 2. CONSTRUCT THE PROPOSED TEMPORARY ACCESS DRIVE PER WAYNE COUNTY DETAIL CD-1 OR AS DIRECTED BY THE WAYNE COUNTY ENGINEER AND THE UTILITY COMPANY REPRESENTATIVE.
- 3. REMOVE EXISTING PAVEMENT, CURB AND GUTTER, DRIVE APPROACHES AND CULVERTS AS SHOWN ON PLANS OR AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
- CONSTRUCT DRIVE APPROACHES WITH A MINIMUM 8" NON REINFORCED CONCRET INTEGRAL STRAIGHT CURB TYPE "3" PER WAYNE COUNTY DETAIL RS-3 OVER 6 INCH MINIMUM OF 21AA AGGREGATE BASE COURSE COMPACTED IN PLACE TO A MINIMUM OF 95% DENSITY OF MAXIMUM UNIT WEIGHT PER WAYNE COUNTY STANDARD DETAIL, D-6, OR AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
- 5. CONSTRUCT THE PROPOSED 5' WIDE SIDEWALK PER WAYNE COUNTY STANDARD DETAIL RS-5. MAINTAIN MAXIMUM 2% TRANSVERSE SLOPE TOWARD THE ROAD. INSTALL MINIMUM 8" THICKENED CONCRETE SIDEWALK (WITHIN DRIVE APPROACH PLUS MINIMUM 5' ON EACH SIDE) AND 4" ANYWHERE ELSE OR AS DIRECTED BY THE WAYNE COUNTY
- 6. CONSTRUCT TAPERS PER WAYNE COUNTY STANDARD DETAIL, P-2, FOR TYPICAL CONCRETE TAPER. THE TAPERS SHALL BE CONSTRUCTED WITH 2" HMA TOP (F) AND 8" NON-REINFORCED CONCRETE. THE WIDENING SHALL BE CONSTRUCTED WITH 2" HMA TOP (F) AND 8" NON-REINFORCED CONCRETE WITH INTEGRAL STRAIGHT CURB/CURB DROP, TYPE 4 OVER 9" 21 AA AGGREGATE BASE COURSE.
- 7. DRIVE APPROACH SLOPES SHALL NOT EXCEED 6%. 8. RESTORE THE ROAD RIGHT-OF-WAY PER NOTE 7 IN THE WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES GENERAL NOTES OR AS DIRECTED BY THE WAYNE COUNTY
- 9. STRUCTURE ADJUSTMENTS SHALL BE DETERMINED ON SITE AS DIRECTED BY THE WAYNE
- COUNTY ENGINEER. 10. REMOVE, REPLACE, AND RESTORE ALL EXISTING TRAFFIC SIGNS THAT ARE AFFECTED BY
- THIS CONSTRUCTION AS DIRECTED BY THE WAYNE COUNTY ENGINEER. 11. RELOCATE ANY EXISTING UTILITIES THAT ARE IN CONFLICT WITH THE PROPOSED WORK
- AS DIRECTED BY THE WAYNE COUNTY ENGINEER AND THE UTILITY COMPANY REPRESENTATIVE. 12. PLACE THE PROPOSED UTILITIES UNDER WAYNE COUNTY JURISDICTION PER SEWER
- TRENCH "A" DETAIL OR SEWER TRENCH "B" DETAIL IN THE WAYNE COUNTY DETAIL S-12 OR AS DIRECTED BY THE WAYNE COUNTY ENGINEER.
- 13. MAINTAIN 18 INCH VERTICAL CLEARANCE AND 3 FEET HORIZONTAL CLEARANCE BETWEEN THE PROPOSED AND EXISTING UTILITIES.

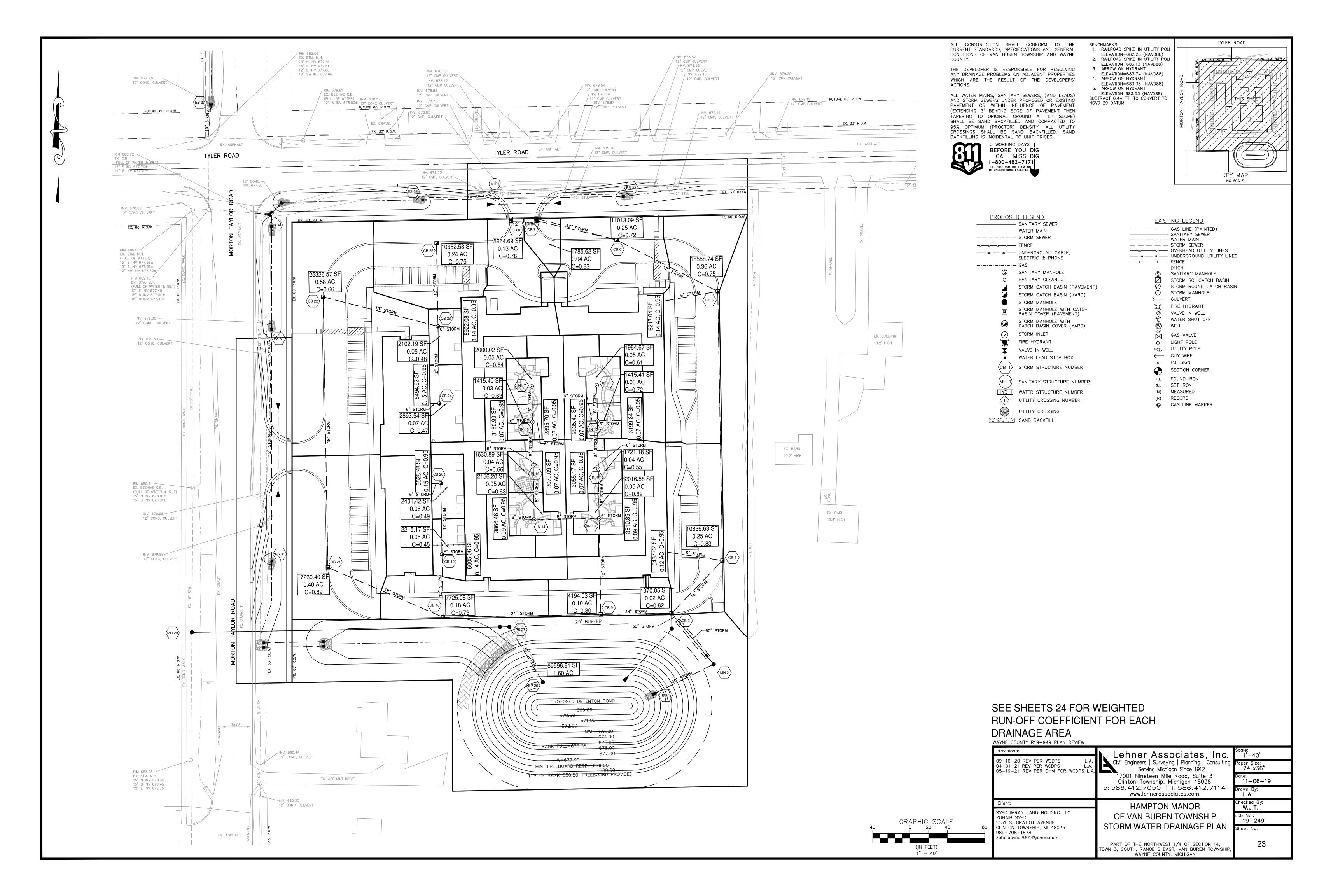
SEE SHEETS 25-29 FOR WCDPS STANDARD NOTES AND DETAILS

(IN FEET) 1" = 30'

WAYNE COUNTY R19-949 PLAN REVIEW		
Revisions:	Lehner Associates, Inc.	Scale: 1'=30'
09-16-20 REV PER WCDPS L.A. 04-01-21 REV PER WCDPS L.A. 05-19-21 REV PER OHM FOR WCDPS L.A.	Civil Engineers Surveying Planning Consulting	
	17001 Nineteen Mile Road, Suite 3 Clinton Township, Michigan 48038	Date: 11—06—19
	o: 586.412.7050 f: 586.412.7114 www.lehnerassociates.com	Drawn By: L.A.
Client:	HAMPTON MANOR	Checked By: W.J.T.
SYED IMRAN LAND HOLDING LLC ZOHAIB SYED 1451 S. GRATIOT AVENUE	OF VAN BUREN TOWNSHIP	Job No.: 19-249
CLINTON TOWNSHIP, MI 48035 989-708-1878	MORTON TAYLOR ROAD	Sheet No.
zohaibsyed2001@yahoo.com	NORTH DETAIL	
	PART OF THE NORTHWEST 1/4 OF SECTION 14, TOWN 3, SOUTH, RANGE 8 EAST, VAN BUREN TOWNSHIP, WAYNE COUNTY. MICHIGAN	20



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HAMPTON MANOR OF VAN BUREN TOWNSHIP PROPOSED STORM SEWER

LEHNER ASSOCIATES Project: Hampton Manor Community: Van Buren Twp.

County:

County: Job Number:	Wayne 19-249																							
I=	151.8/(T+19.9)		C=	weighted	<u> </u>	T=	15	MIN.	1			Γ				T								
FROM	ТО	INCRE-	INCRE-		EQUIV.	TOTAL	T	1	Q=CIA	DIAM.	LENGTH	SLOPE	HG	VEL.	TIME	CAPAC-	HYDRAULIC	GRADE	INVERT EL	EVATION	RIM ELEVA	TION	HG COVER	
STRUCTURE	STRUCTURE	MENT SF	MENT	С	AREA	AREA SUM CA	TIME (MIN.)	(IN PER	C.F.S.	OF PIPE	OF LINE	OF PIPE	(%)	FLOW	OF FLOW	ITY OF	UP STREAM	DOWN STREAM	UPPER END	LOWER	UPPER	LOWER	UPPER	LOWER
CB 25	CB 23	(A) 10652.53	(A) 0.24	0.75	0.18	0.18	15.00	HOUR) 4.35	0.80	(IN.) 12	(FT.) 89	(%) 0.32	0.32	FT/SEC 2.6	(MIN.) 0.58	(C.F.S.) 2.02	677.66	677.38	676.46	676.18	681.63	683.00	3.97	5.62
ROOF	CB 24	6494.62	0.15	0.95	0.14	0.14	15.00	4.35	0.62	6	10	2.00	2.00	4.0	0.04	0.79	678.93	678.73	678.53	678.33	684.00	683.00	5.07	4.27
CB 24	CB 23	2893.54	0.13	0.47	0.03	0.17	15.04	4.34	0.75	12	83	0.32	0.32	2.6	0.54	2.02	678.63	678.37	677.83	677.57	683.00	683.00	4.37	4.63
ROOF	CB 23	5922.08	0.14	0.95	0.13	0.13	15.00	4.35	0.56	6	25	2.00	2.00	4.0	0.10	0.79	679.32	678.82	678.92	678.42	684.00	683.00	4.68	4.18
CB 23	CB 22	2102.19	0.05	0.48	0.02	0.51	15.58	4.28	2.18	15	127	0.24	0.24	2.6	0.82	3.16	677.28	676.97	675.88	675.57	683.00	681.10	5.72	4.13
CB 22 CB 21	CB 21 CB 18	25326.57 17260.40	0.58 0.40	0.66 0.69	0.39 0.27	0.90 1.17	16.40 18.32	4.18 3.97	3.75 4.65	18 18	290 134	0.18 0.20	0.18 0.20	2.5 2.7	1.92 0.84	4.46 4.70	676.87 676.35	676.35 676.08	675.27 674.65	674.75 674.38	681.10 681.60	681.60 682.04	4.23 5.25	5.25 5.96
ROOF	CB 20	6528.28	0.15	0.95	0.14	0.14	15.00	4.35	0.62	6	10	2.00	2.00	4.0	0.04	0.79	678.93	678.73	678.53	678.33	684.00	683.00	5.07	4.27
CB 20	CB 19	2401.42	0.06	0.49	0.03	0.17	15.04	4.34	0.74	12	76	0.32	0.32	2.6	0.49	2.02	678.63	678.39	677.83	677.59	683.00	683.00	4.37	4.61
ROOF	CB 19	6005.06	0.14	0.95	0.13	0.13	15.00	4.35	0.57	6	25	2.00	2.00	4.0	0.10	0.79	679.32	678.82	678.92	678.42	684.00	683.00	4.68	4.18
CB 19	CB 18	2215.17	0.05	0.45	0.02	0.32	15.53	4.28	1.39	12	67	1.22	1.22	5.0	0.22	3.94	678.39	677.57	677.59	676.77	683.00	682.04	4.61	4.47
CB 18	CB 9	7725.08	0.18	0.79	0.14	1.63	19.16	3.89	6.35	24	169	0.12	0.12	2.5	1.13	7.84	675.98	675.78	673.88	673.68	682.04	682.44	6.06	6.66
IN 17	IN 16	2000.02	0.05	0.64	0.03	0.03	15.00	4.35	0.13	8	38	0.80	0.80	3.1	0.20	1.08	679.55	679.24	678.72	678.42	683.50	683.50	3.95	4.26
ROOF(W)	IN 16	3180.90	0.07	0.95	0.07	0.07	15.00	4.35	0.30	6	27	1.00	1.00	2.9	0.16	0.56	679.61	679.34	679.19	678.92	684.00	683.50	4.39	4.16
ROOF(E)	IN 16	2895.70	0.07	0.95	0.06	0.06	15.00	4.35	0.27	6	10	1.00	1.00	2.9	0.06	0.56	679.44	679.34	679.02	678.92	684.00	683.50	4.56	4.16
IN 16	IN 15	1415.40	0.03	0.63	0.02	0.18	15.20	4.32	0.79	8	46	0.80	0.80	3.1	0.25	1.08	679.24	678.88	678.42	678.05	683.50	683.50	4.26	4.62
ROOF	IN 15	3070.09	0.07	0.95	0.07	0.07	15.00	4.35	0.29	6	10	1.00	1.00	2.9	0.06	0.56	679.42	679.32	679.02	678.92	684.00	683.50	4.58	4.18
IN 15	IN 14	1630.89	0.04	0.66	0.02	0.27	15.45	4.29	1.18	8	58	1.00	1.00	3.5	0.28	1.21	678.88	678.30	678.05	677.47	683.50	683.50	4.62	5.20
ROOF	IN 14	3866.48	0.09	0.95	0.08	0.08	15.00	4.35	0.37	6	27	1.00	1.00	2.9	0.16	0.56	679.59	679.32	679.19	678.92	684.00	683.50	4.41	4.18
IN 14	IN 10	2156.20	0.05	0.63	0.03	0.39	15.73	4.26	1.66	8	70	1.90	1.90	4.8	0.24	1.67	678.20	676.87	677.37	676.04	683.50	683.50	5.30	6.63
IN 13	IN 12	1984.67	0.05	0.61	0.03	0.03	15.00	4.35	0.12	8	38	0.80	0.80	3.1	0.20	1.08	679.26	678.95	678.72	678.42	683.50	683.50	4.24	4.55
ROOF(W)	IN 12	2835,49	0.07	0.95	0.06	0.06	15.00	4.35	0.27	6	12	1.00	1.00	2.9	0.07	0.56	679.44	679.32	679.04	678.92	684.00	683.50	4.56	4.18
ROOF(E)	IN 12	3199.84	0.07	0.95	0.07	0.07	15.00	4.35	0.30	6	25	1.00	1.00	2.9	0.15	0.56	679.57	679.32	679.17	678.92	684.00	683.50	4.43	4.18
IN 12	IN 11	1415.41	0.03	0.72	0.02	0.18	15.20	4.32	0.79	8	51	0.80	0.80	3.1	0.27	1.08	678.95	678.54	678.42	678.01	683.50	683.50	4.55	4.96
ROOF	IN 11	3055.17	0.07	0.95	0.07	0.07	15.00	4.35	0.29	6	12	1.00	1.00	2.9	0.07	0.56	679.44	679.32	679.04	678.92	684.00	683.50	4.56	4.18
IN 11	IN 10	1721.18	0.04	0.55	0.02	0.27	15.48	4.29	1.16	8	53	1.00	1.00	3.5	0.26	1.21	678.54	678.01	678.01	677.48	683.50	683.50	4.96	5.49
ROOF	IN 10	3810.89	0.09	0.95	0.08	0.08	15.00	4.35	0.36	6	25	1.00	1.00	2.9	0.15	0.56	679.57	679.32	679.17	678.92	684.00	683.50	4.43	4.18
IN 10	CB 9	2016.58	0.05	0.62	0.03	0.77	15.98	4.23	3.27	12	103	0.86	0.86	4.2	0.41	3.30	676.77	675.88	675.67	674.79	683.50	682.44	6.73	6.56
CB 9	CB 3	4194.03	0.10	0.80	0.08	2.48	20.28	3.78	9.38	24	76	0.18	0.18	3.1	0.41	9.60	675.78	675.64	673.68	673.54	682.44	682.60	6.66	6.96
CB 8	CB 7	5664.69	0.13	0.78	0.10	0.10	15.00	4.35	0.44	12	27	0.32	0.32	2.6	0.18	2.02	677.44	677.35	676.52	676.44	681.69	681.69	4.25	4.34
CB 7	CB 6 CB 5	1785.62 11013.09	0.04 0.25	0.83 0.72	0.03	0.13	15.18 15.75	4.33 4.26	0.58 1.35	12 12	89 122	0.32 0.32	0.32	2.6 2.6	0.58 0.79	2.02	677.35 677.07	677.07 676.68	676.44 676.15	676.15 675.76	681.69 682.00	682.00 681.86	4.34 4.93	4.93 5.18
ROOF	CB 5	6217.04	0.14	0.95	0.14	0.14	15.00	4.35	0.59	6	59	2.00	2.00	4.0	0.24	0.79	678.86	677.68	678.46	677.28	684.00	681.86	5.14	4.18
CB 5	CB 4	15558.74	0.36	0.75	0.27	0.72	16.55	4.17	3.00	15	289	0.24	0.24	2.6	1.87	3.16	676.58	675.88	675.46	674.77	681.86	682.00	5.28	6.12
ROOF	CB 4	5437.02	0.36	0.75	0.12	0.72	15.00	4.17	0.52	6	59	1.00	1.00	2.9	0.34	0.56	678.41	677.82	678.01	677.42	684.00	682.00	5.59	4.18
CB 4	CB 3	10836.63	0.25	0.83	0.21	1.05	18.41	3.96	4.14	18	78	0.18	0.18	2.5	0.52	4.46	675.78	675.64	674.47	674.33	682.00	682.60	6.22	6.96
CB 3 KSl3500	KSl3500 KSl3500	1070.05 0.00	0.02	0.82	0.02	3.55 3.55	20.70	3.74	13.27 13.25	30 60	10 51	0.11 0.11	0.11 0.11	2.8 4.4	0.06 0.19	13.60 86.38	675.54 675.53	675.53 675.48	673.04 673.03	673.03 672.98	682.60 682.34	682.34 680.74	7.06 6.81	6.81 5.26
KSI3500	MH 2	0.00	0.00	0.00	0.00	3.55	20.95	3.72	13.19	30	10	0.11	0.11	2.8	0.15	13.60	675.48	675.47	672.98	672.97	680.74	680.75	5.26	5.28
MH 2	ES 1	0.00	0.00	0.00	0.00	3.55	21.01	3.71	13.17	30	73	0.11	0.11	2.8	0.44	13.60		 07F 47	672.97	672.89	680.75			
			-				1		1				 		1	1	rt HG-Crown leatment outlet	675.47					1	

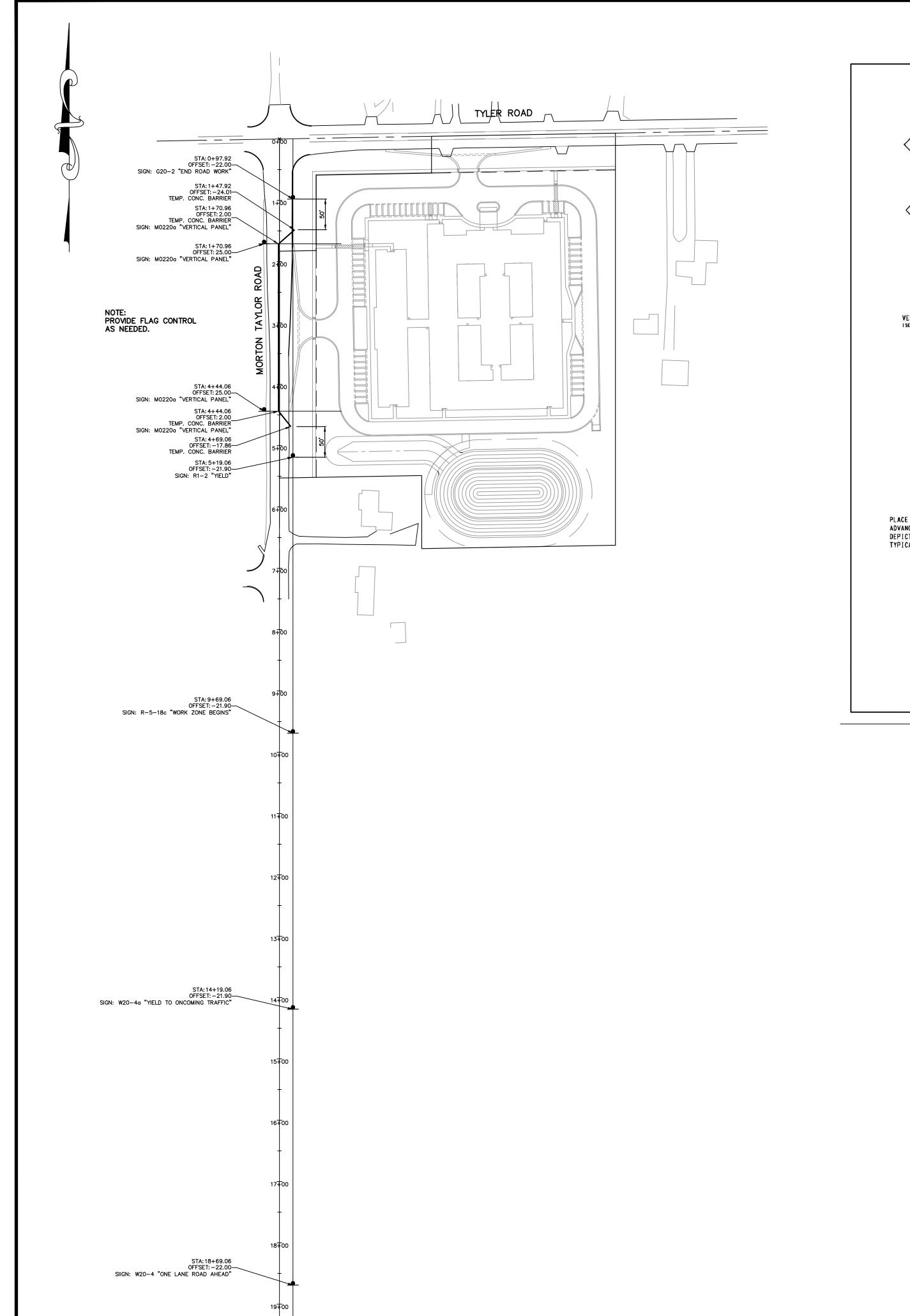
TRUCTURE#			SURFACE		AREA (A)					<u>c</u>	_	C weighte
CB 3	1070.05	sf	Paving	=	788.83	sf	Ξ	0.02	acres	0.95	0.02	0.82
			Law n	=	281.22	sf	=	0.01	acres	0.45	0.00	
			Roof Water	=	0.00	sf sf	=	0.00	acres	0.95 1.00	0.00	
					2.00	-		2.00	22,03		55	
ROOF 4	5437.02	sf	Paving	Ξ	0.00	sf	Ξ	0.00	acres	0.95	0.00	0.95
			Lawn	=	0.00	sf	=	0.00	acres	0.45	0.00	
			Roof	=	5437.02 0.00	sf sf	=	0.12	acres	0.95 1.00	0.12	
			Water	 -	0.00	51	┞	0.00	acres	1.00	0.00	
CB 4	10836.63	sf	Paving	=	8299.71	sf	=	0.19	acres	0.95	0.18	0.83
			Law n	=	2536.92	sf	=	0.06	acres	0.45	0.03	
			Roof	=	0.00	sf	Ξ	0.00	acres	0.95	0.00	
			Water	=	0.00	sf	=	0.00	acres	1.00	0.00	
ROOF 5	6217.04	sf	Paving	=	0.00	sf	=	0.00	acres	0.95	0.00	0.95
1,001 0	0217.01	-	Lawn	=	0.00	sf	=	0.00	acres	0.45	0.00	0.00
			Roof	=	6217.04	sf	=	0.14	acres	0.95	0.14	
			Water	=	0.00	sf	=	0.00	acres	1.00	0.00	
CD 5	15550 71	of.	Daving	<u> </u>	0100.00	o f	_	0.21	aaraa	0.05	0.20	0.75
CB 5	15558.74	sf	Paving Law n	=	9199.88 6358.86	sf sf	=	0.21	acres	0.95	0.20	0.75
			Roof	=	0.00	sf	=	0.00	acres	0.95	0.00	
			Water	=	0.00	sf	=	0.00	acres	1.00	0.00	
CB 6	11013.09	sf	Paving	=	6009.96	sf	=	0.14	acres	0.95	0.13	0.72
			Law n Roof	=	5003.13 0.00	sf sf	=	0.11	acres	0.45	0.05	
			Water	┢═	0.00	sf	=	0.00	acres	1.00	0.00	
								Ĺ				
CB 7	1785.62	sf	Paving	Ξ	1365.98	sf	=	0.03	acres	0.95	0.03	0.83
			Law n	=	419.64	sf	=	0.01	acres	0.45	0.00	
		_	Roof Water	=	0.00	sf	=	0.00	acres acres		0.00	
			vvaler	F	0.00	ST	Ë	0.00	acres	1.00	0.00	
CB 8	5664.69	sf	Paving	=	3689.69	sf	=	0.08	acres	0.95	0.08	0.78
			Law n	=	1975.00	sf	=	0.05	acres	0.45	0.02	
			Roof	=	0.00	sf	=	0.00	acres	0.95		
			Water	=	0.00	sf	=	0.00	acres	1.00	0.00	
CB 9	4194.03	sf	Paving	=	2966.78	sf	=	0.07	acres	0.95	0.06	0.80
СБэ	4194.03	31	Lawn	┢	1227.25	sf	=	0.07	acres	0.45		0.00
			Roof	=	0.00	sf	=		acres	0.95		
			Water	=	0.00	sf	=	0.00	acres	1.00	0.00	
ROOF 10	3810.89	sf	Paving	=	0.00	sf	=	0.00	acres			0.95
			Law n Roof	=	3810.89	sf sf	=	0.00	acres acres	0.45		
			Water	=	0.00	sf	=		acres	1.00		
IN 10	2016.58	sf	Paving	=	702.77	sf	=	0.02	acres			0.62
			Lawn	=	1313.81	sf	=	0.03	acres			
			Roof Water	=	0.00	sf sf	=	0.00	acres acres	0.95 1.00	0.00	
			· vator		0.00	"		0.00	40103	1.00	0.00	
ROOF 11	3055.17	sf	Paving	=	0.00	sf	=	0.00	acres	0.95	0.00	0.95
			Lawn	=	0.00	sf	=	0.00	acres	0.45		
			Roof Water	=	3055.17 0.00	sf sf	=	0.07	acres acres	0.95 1.00	0.07	
			VVator		0.00	"		0.00	uores	1.00	0.00	
IN 11	1721.18	sf	Paving	=	343.54	sf	=	0.01	acres	0.95	0.01	0.55
			Law n	=	1377.64	sf	=	0.03	acres	0.45		
			Roof	=	0.00	sf	=	0.00	acres	0.95		
			Water	=	0.00	sf	=	0.00	acres	1.00	0.00	
ROOF 12W	2835.49	sf	Paving	+=	0.00	sf	=	0.00	acres	0.95	0.00	0.95
			Law n	=	0.00	sf	=	0.00	acres			
			Roof	=	2835.49	sf	=	0.07	acres			
			Water	=	0.00	sf	=	0.00	acres	1.00	0.00	
ROOF 12E	3199.84	sf	Paving	-	0.00	sf	 	0.00	acres	በ ወደ	0.00	0.95
NOOI IZE	U 100.0 4	131	Law n	=	0.00	sf	_		acres		ı	0.30
			Roof	=	3199.84	sf	=		acres			
			Water	=	0.00	sf	=	0.00	acres	1.00	0.00	
INIAO	4445 44		D	Ļ	750.74	ļ.	Ļ	0.00		0.05	0.00	0.70
IN 12	1415.41	sf	Paving Law n	=	758.71 656.70	sf sf	=	0.02	acres acres			0.72
			Roof	=	0.00	sf	=	0.02	acres		0.00	
			Water	=	0.00	sf	=	0.00	acres			
IN 13	1984.67	sf	Paving	=	650.40	sf	=	0.01	acres			0.61
		_	Law n	=	1334.27	Sf ef	=	0.03	acres		0.01	
		_	Roof Water	=	0.00	sf sf	=	0.00	acres acres	1.00	0.00	
		 			2.00	 					55	
ROOF 14	3866.48	sf	Paving	=	0.00	sf	=	0.00	acres	0.95	0.00	0.95
			Law n	=	0.00	sf	Ξ	0.00	acres		l	
			Roof	=	3866.48	sf	=	0.09	acres			
			Water	=	0.00	sf	=	0.00	acres	1.00	0.00	
IN 14	2156.20	sf	Paving	=	794.83	sf	=	0.02	acres	0.95	0.02	0.63
1 T	00.20	- -	Lawn	=	1361.37	sf	=	0.02	acres			3.55
			Roof	=	0.00	sf	=	0.00	acres			
			Water	Ξ	0.00	sf	Ξ	0.00	acres	1.00	0.00	
Doc	0.0=0											
ROOF 15	3070.09	sf	Paving	=	0.00	sf	=		acres			0.95
		_	Law n Roof	=	0.00 3070.09	sf sf	=		acres			
•		\vdash	Water	=	0.00	sf	=		acres	1.00		
			-	1			\vdash					
						l	l				l	
IN 15	1630.89	sf	Paving	=	669.29	sf	=	0.02	acres			0.66
IN 15	1630.89	sf	Paving Law n	= =	669.29 961.60 0.00	sf sf	=	0.02	acres acres	0.45	0.01	0.66

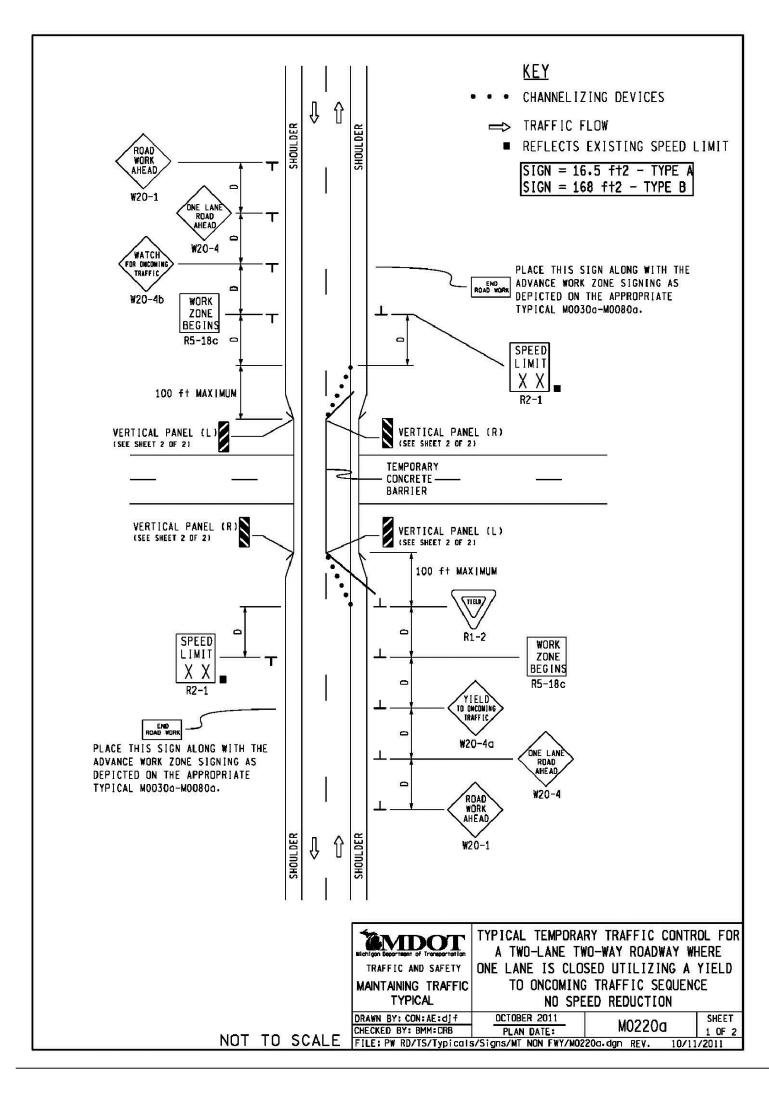
STRUCTURE#	GROSS AREA		SURFACE	=	AREA (A)					С	СхА	C weigh
ROOF 16W	3180.90	sf	Paving	=	0.00	sf	=	0.00	acres	0.95	0.00	0.95
			Law n	=	0.00	sf	=	0.00	acres	0.45	0.00	
			Roof	=	3180.90	sf	=	0.07	acres	0.95	0.07	
			Water	=	0.00	sf	=	0.00	acres	1.00	0.00	
ROOF 16E	2895.70	sf	Paving	╘	0.00	sf	=	0.00	acres	0.95	0.00	0.95
	2000.70	-	Lawn	=	0.00	sf	=	0.00	acres	0.45	0.00	0.00
			Roof	=	2895.70	sf	=	0.07	acres	0.95	0.06	
			Water	=	0.00	sf	=	0.00	acres	1.00	0.00	
			<u> </u>		505.50			2.21				2.00
IN 16	1415.40	sf	Paving	=	505.56 909.84	sf sf	=	0.01	acres	0.95	0.01	0.63
			Law n Roof	┢	0.00	sf	=	0.02	acres	0.45	0.00	
			Water	=	0.00	sf	=	0.00	acres	1.00	0.00	
IN 17	2000.02	sf	Paving	=	753.59	sf	Ξ	0.02	acres	0.95	0.02	0.64
			Law n	=	1246.43	sf	=	0.03	acres	0.45	0.01	
			Roof Water	=	0.00	sf sf	=	0.00	acres	0.95 1.00	0.00	
			vvalei	Ε-	0.00	51	_	0.00	acres	1.00	0.00	
CB 18	7725.08	sf	Paving	=	5237.97	sf	=	0.12	acres	0.95	0.11	0.79
			Law n	=	2487.11	sf	=	0.06	acres	0.45	0.03	
			Roof	=	0.00	sf	=	0.00	acres	0.95	0.00	
-			Water	=	0.00	sf	=	0.00	acres	1.00	0.00	
ROOF 19	6005.00	C.E	Dovin -	<u> </u>	0.00	o.f	<u> </u>	0.00	0077	0.05	0.00	0.05
KUUF 19	6005.06	sf	Paving Law n	=	0.00	sf sf	=	0.00	acres	0.95 0.45	0.00	0.95
			Roof	=	6005.06	sf	=	0.00	acres	0.45	0.00	
			Water	=	0.00	sf	=	0.00	acres	1.00	0.00	
CB 19	2215.17	sf	Paving	=	0.00	sf	=	0.00	acres	0.95	0.00	0.45
			Lawn	=	2215.17	sf	=	0.05	acres	0.45	0.02	
			Roof	=	0.00	sf	=	0.00	acres	0.95	0.00	
			Water	=	0.00	sf	=	0.00	acres	1.00	0.00	
ROOF 20	6528.28	sf	Paving	=	0.00	sf	=	0.00	acres	0.95	0.00	0.95
		-	Lawn	 =	0.00	sf	=	0.00	acres	0.45		0.00
			Roof	=	6528.28	sf	=	0.15	acres	0.95	0.14	
			Water	=	0.00	sf	=	0.00	acres	1.00	0.00	
		_	<u> </u>									
CB 20	2401.42	sf	Paving	=	214.05 2187.37	sf sf	=	0.00	acres	0.95 0.45		0.49
			Law n Roof	=	0.00	sf	=	0.00	acres acres	0.45		
			Water	+=	0.00	sf	=	0.00	acres	1.00		
CB 21	17260.40	sf	Paving	=	8322.80	sf	=	0.19	acres	0.95	0.18	0.69
			Law n	=	8937.60	sf	=	0.21	acres	0.45	0.09	
			Roof	=	0.00	sf	=	0.00	acres			
			Water	=	0.00	sf	=	0.00	acres	1.00	0.00	
CB 22	25326.57	sf	Paving	=	10828.73	sf	=	0.25	acres	0.95	0.24	0.66
			Law n	=	14497.84	sf	=	0.33	acres	0.45	0.15	
			Roof	=	0.00	sf	=	0.00	acres	0.95	0.00	
			Water	=	0.00	sf	=	0.00	acres	1.00	0.00	
D005.00	5000.00		I Devi		0.00		Ļ	0.00		0.05	0.00	22-
ROOF 23	5922.08	sf	Paving Law n	=	0.00	sf sf	=	0.00	acres acres	0.95 0.45		0.95
		\vdash	Roof	=	5922.08	sf	=	0.00	acres	0.45		
			Water	=	0.00	sf	=	0.00	acres	1.00	0.00	
			1	T								
CB 23	2102.19	sf	Paving	Ξ	128.00	sf	=	0.00	acres			0.48
			Law n	=	1974.19	sf	=	0.05	acres	0.45	0.02	
		_	Roof	=	0.00	sf	=	0.00	acres			
		_	Water	=	0.00	sf	=	0.00	acres	1.00	0.00	
ROOF 24	6494.62	sf	Paving	=	0.00	sf	=	0.00	acres	0.95	0.00	0.95
<u> </u>			Lawn	=	0.00	sf	=	0.00	acres	0.45	0.00	
			Roof	=	6494.62	sf	=	0.15	acres	0.95		
			Water	=	0.00	sf	=	0.00	acres	1.00	0.00	
OD 04	2002.54	C.F	 Devident	<u> </u>	100.00	a.f	<u> </u>	0.00	00	0.05	0.00	0.47
CB 24	2893.54	sf	Paving Law n	=	128.00 2765.54	sf sf	=	0.00	acres acres			0.47
		\vdash	Roof	╘	0.00	sf			acres			
			Water	=	0.00	sf	=	0.00	acres			
CB 25	10652.53	sf	Paving	=	6490.89	sf	=	0.15	acres			0.75
			Law n	=	4161.64	sf	=	0.10	acres			
		_	Roof	=	0.00	sf	=	0.00	acres			
		\vdash	Water	=	0.00	sf	=	0.00	acres	1.00	0.00	
DETENTION	69596.81	sf	Paving	=	0.00	sf	=	0.00	acres	0.95	0.00	0.62
		<u> </u>	Lawn	=	48353.57	sf	=	1.11	acres		l	
			Roof	=	0.00	sf	=	0.00	acres			
			-		21243.24	sf	=	0.49	acres	1.00	0.49	

WEIGHTED COEFFICIENT OF IM PERVIOUSNESS

YNE	COUNTY	R19-949	PLAN	REVIEW	

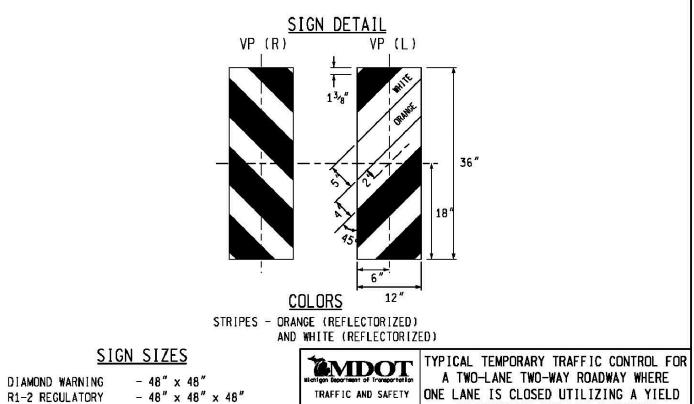
Revisions: 09-16-20 REV PER WCDPS L.A. 04-01-21 REV PER WCDPS L.A. 05-19-21 REV PER OHM FOR WCDPS L.A.	Lehner Associates, Inc. Civil Engineers Surveying Planning Consulting Serving Michigan Since 1912 17001 Nineteen Mile Road, Suite 3 Clinton Township, Michigan 48038 o: 586.412.7050 f: 586.412.7114 www.lehnerassociates.com	Scale: NO SCALE Paper Size: 24"x36" Date: 11-06-19 Drawn By: L.A.
Client: SYED IMRAN LAND HOLDING LLC ZOHAIB SYED 1451 S. GRATIOT AVENUE CLINTON TOWNSHIP, MI 48035 989-708-1878 zohaibsyed2001@yahoo.com	HAMPTON MANOR OF VAN BUREN TOWNSHIP STORM SEWER DESIGN CALCULATIONS PART OF THE NORTHWEST 1/4 OF SECTION 14, TOWN 3, SOUTH, RANGE 8 EAST, VAN BUREN TOWNSHIP, WAYNE COUNTY. MICHIGAN	Checked By: W.J.T. Job No.: 19-249 Sheet No. 24







- 1A. SEE MOO2Od FOR "D" VALUES.
- 2. ALL NON-APPLICABLE SIGNING WITHIN THE CIA SHALL BE MODIFIED TO FIT CONDITIONS, COVERED OR REMOVED.
- 3. DISTANCES BETWEEN SIGNS, THE VALUES FOR WHICH ARE SHOWN IN TABLE D, ARE APPROXIMATE AND MAY NEED ADJUSTING AS DIRECTED BY THE ENGINEER.
- 3A. THE "WORK ZONE BEGINS" (R5-18c) SIGN SHALL BE USED ONLY IN THE INITIAL SIGNING SEQUENCE IN THE WORK ZONE. SUBSEQUENT SEQUENCES IN THE SAME WORK ZONE SHALL DMIT THIS SIGN AND THE QUANTITIES SHALL BE ADJUSTED APPROPRIATELY.
- 4C. THE MAXIMUM RECOMMENDED DISTANCE(S) BETWEEN CHANNELIZING DEVICES IN THE TAPER AREA(S) SHOULD BE 15
- 5. FOR OVERNIGHT CLOSURES, TYPE III BARRICADES SHALL BE LIGHTED.
- 6. WHEN CALLED FOR IN THE FHWA ACCEPTANCE LETTER FOR THE SIGN SYSTEM SELECTED, THE TYPE A WARNING FLASHER, SHOWN ON THE WARNING SIGNS, SHALL BE POSITIONED ON THE SIDE OF THE SIGN NEAREST THE ROADWAY.
- 7. ALL TEMPORARY SIGNS, TYPE III BARRICADES, THEIR SUPPORT SYSTEMS AND LIGHTING REQUIREMENTS SHALL MEET NCHRP 350 CRASHWORTHLY REQUIREMENTS STIPULATED IN THE CURRENT EDITION OF THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE STANDARD PLANS AND APPLICABLE SPECIAL PROVISIONS. ONLY DESIGNS AND MATERIALS APPROVED BY MOOT WILL BE ALLOWED.
- 21. ALL EXISTING PAVEMENT MARKINGS WHICH ARE IN CONFLICT WITH EITHER PROPOSED CHANGES IN TRAFFIC PATTERNS OR PROPOSED TEMPORARY TRAFFIC MARKINGS. SHALL BE REMOVED BEFORE ANY CHANGE IS MADE IN THE TRAFFIC PATTERN. EXCEPTION WILL BE MADE FOR DAYTIME-ONLY TRAFFIC PATTERNS THAT ARE ADEQUATELY DELINEATED BY OTHER TRAFFIC CONTROL DEVICES.
- 22. BARRIER REFLECTORS AND RAISED PAVEMENT MARKERS WHICH ARE EITHER BI-DIRECTIONAL TWO COLOR OR SINGLE REFLECTORS PLACED BACK TO BACK, WHICH REFLECT THE APPROPRIATE COLOR FOR THE TRAFFIC PATTERN, SHOULD BE USED TO DELINEATE EACH EDGE OF THE TRAVELED PATH THROUGH THE WORK AREA.
- 23. TEMPORARY CONCRETE BARRIER SHALL BE APPLIED AS PER THE CURRENT STANDARD PLAN.
- 25. THIS SEQUENCE SHOULD ONLY BE USED WHEN TRAFFIC VOLUMES ARE LOW. SIGHT DISTANCE IS GOOD. AND THE CLOSED LANE IS RELATIVELY SHORT IN LENGTH.



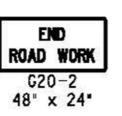
MAINTAINING TRAFFIC TO ONCOMING TRAFFIC SEQUENCE

 " x 36"
 DRAWN BY: CON:AE:djf
 OCTOBER 2011
 MO220d
 SHEET 2 OF 2

 NOT TO SCALE
 FILE: PW RD/TS/Typicals/Signs/MT NON FWY/M0220a.dgn REV.
 10/11/2011

NO SPEED REDUCTION







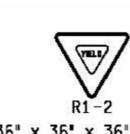


R2-1 REGULATORY - 48" x 60"

R5-18c REGULATORY - 48" x 48"

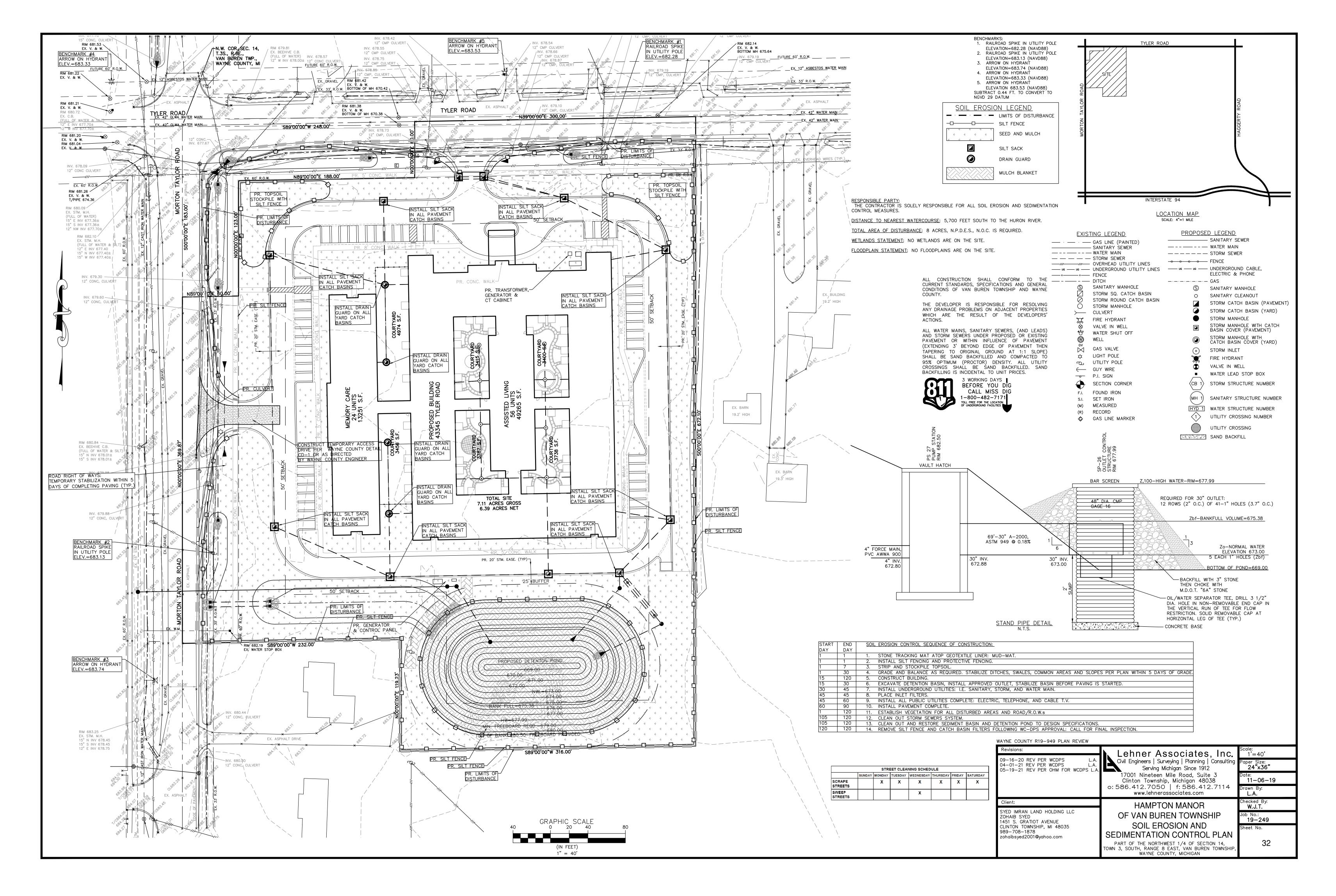
- 12" x 36"

VERTICAL PANEL



Revisions: Lehner Associates, Inc. 09-16-20 REV PER WCDPS Civil Engineers | Surveying | Planning | Consulting Paper Size: 24"x36" 04-01-21 REV PER WCDPS 05-19-21 REV PER OHM FOR WCDPS L.A. Serving Michigan Since 1912 17001 Nineteen Mile Road, Suite 3 11-06-19 Clinton Township, Michigan 48038 o: 586.412.7050 | f: 586.412.7114 Drawn By: www.lehnerassociates.com L.A. Checked By **W.J.T.** HAMPTON MANOR SYED IMRAN LAND HOLDING LLC OF VAN BUREN TOWNSHIP ZOHAIB SYED 19-249 1451 S. GRATIOT AVENUE MORTON TAYLOR ROAD CLINTON TOWNSHIP, MI 48035 heet No. 989-708-1878 TRAFFIC CONTROL PLAN zohaibsyed2001@yahoo.com PART OF THE NORTHWEST 1/4 OF SECTION 14, TOWN 3, SOUTH, RANGE 8 EAST, VAN BUREN TOWNSHIP
WAYNE COUNTY, MICHIGAN

TYLER ROAD <u>KEY MAP</u> NO SCALE



19-249\Drafting & Engineering\Engineering\19-249-32-33-SoilErosion.dwg, 32-Soil, 5/19/2021 10:55:03 AM, laura.ɛ

EROSION CONTROL STANDARD NOTES

1. ALL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES. 2. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR FOR EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES. ANY NECESSARY REPAIRS SHALL BE PERFORMED

3. EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED WITHIN THE WORK AREA AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES, PONDS AND WETLANDS.

4. THE CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS DIRECTED ON THESE PLANS AND WHERE OTHERWISE REQUIRED BY THE WORK. THE CONTRACTOR SHALL REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES, AND OTHER CHANGES HAVE BEEN ACCOMPLISHED.

5. SOIL EROSION CONTROL PRACTICES WILL BE ESTABLISHED IN EARLY STAGES OF CONSTRUCTION BY THE CONTRACTOR. SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTING OF DIRT OFF THE WORK AREA.

6. THE CONTRACTOR SHALL PRESERVE OFF-SITE NATURAL VEGETATION AS MUCH AS

7. PROTECT ALL EXISTING TREES , INCLUDING THEIR BRANCHES AND ROOTS, FROM DAMAGE

8. ALL EXPOSED EARTH SHALL BE STABILIZED WITH SEED AND MULCH OR SOD WITHIN 5 DAYS OF FINAL GRADE. SEDIMENT AND DETENTION BASINS, SWALES AND DITCHES SHALL BE STABILIZED WITH SEED AND STRAW MULCH BLANKETS, STAKED INTO THE GROUND 5 DAYS AFTER THE CONSTRUCTION OF THE SEDIMENT AND DETENTION BASINS, SWALES AND DITCHES.

DUE TO THIS WORK UNLESS SPECIFICALLY IDENTIFIED FOR REMOVAL.

9. THE CONTRACTOR SHALL SCRAPE THE STREETS DAILY, AND SWEEP THE STREETS WEEKLY. 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL AND SHALL PROVIDE ALL EQUIPMENT AND MATERIAL TO KEEP DUST IN CHECK AT ALL TIMES. THE CONTRACTOR SHALL RESPOND IMMEDIATELY TO ANY AND ALL COMPLAINTS.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NPDES PERMIT AND ENSURING COMPLIANCE WITH ALL APPLICABLE PERMIT REGULATIONS, INCLUDING BUT NOT LIMITED TO, INSPECTION, RESTORATION AND RECORD KEEPING REQUIREMENTS. REPORTS FROM THE CERTIFIED STORM WATER OPERATOR SHALL BE MADE AVAILABLE TO WAYNE COUNTY.

> DESCRIPTIONS ARE PREPARED FROM EXISTING VAN BUREN TOWNSHIP TAX RECORDS. ALL PARCELS SHALL BE COMBINED AFTER PURCHASE OF PROPERTY IS COMPLETED. PARCEL 1: PARCEL #83-054-99-0012-000 PART OF THE NORTHWEST 1/4 OF SECTION 14, TOWN 3 SOUTH,

> RANGE 8 EAST, BEGINNING SOUTH 333 FEET FROM THE NORTHWEST CORNER OF SECTION 14; THENCE NORTH 89 DEGREES 00 MINUTES EAST 248 FEET; THENCE NORTH 333 FEET; THENCE NORTH 89 DEGREES 00 MINUTES EAST 150 FEET; THENCE SOUTH 258 FEET; THENCE NORTH 89 DEGREES 00 MINUTES EAST 150 FEET; THENCE SOUTH 294.87 FEET; THENCE SOUTH 89 DEGREES 00 MINUTES WEST 548 FEET; THENCE NORTH 219.87 FEET TO THE POINT OF BEGINNING. 4.18 ACRES.

> PARCEL 2: PARCEL #83-054-99-0013-000 PART OF THE NORTHWEST 1/4 OF SECTION 14, TOWN 3 SOUTH RANGE 8 EAST, BEGINNING NORTH 89 DEGREES 00 MINUTES EAST 398 FEET FROM THE NORTHWEST CORNER OF SECTION 14; THENCE NORTH 89 DEGREES 00 MINUTES EAST 150 FEET; THENCE SOUTH 258 FEET; THENCE SOUTH 89 DEGREES 00 MINUTES WEST 150 FEET; THENCE NORTH 258 FEET TO THE POINT OF BEGINNING. 0.89 ACRES.

PARCEL 3: PARCEL #83-054-99-0014-701 PART OF THE NORTHWEST 1/4 OF SECTION 14, TOWN 3 SOUTH RANGE 8 EAST. BEGINNING SOUTH 60 FEET AND NORTH 89 DEGREES EAST 60 FEET FROM THE NORTHWEST CORNER OF SECTION 14; THENCE SOUTH 123 FEET; THENCE NORTH 89 DEGREES EAST 188 FEET: THENCE NORTH 123 FEET; THENCE SOUTH 89 DEGREES WEST 188 FEET TO THE POINT OF BEGINNING. 0.53 ACRES.

PARCEL 4: PARCEL #83-054-99-0015-701 PART OF THE NORTHWEST 1/4 OF SECTION 14, TOWN 3 SOUTH RANGE 8 EAST, BEGINNING SOUTH 183 FEET FROM THE NORTHWEST CORNER OF SECTION 14; THENCE NORTH 89 DEGREES 00 MINUTES FAST 248 FEFT: THENCE SOUTH 150 FEFT: THENCE SOUTH 89 DEGREES 00 MINUTES WEST 248 FEET: THENCE NORTH 150 FEET TO

THE POINT OF BEGINNING EXCEPT THE WEST 60 FEET THEREOF. 0.65

PARCEL 5: PARCEL #83-054-99-0016-002 PART OF THE NORTHWEST 1/4 OF SECTION 14, TOWN 3 SOUTH RANGE 8 EAST, BEGINNING DUE SOUTH 672.10 FEET AND NORTH 90 DEGREES EAST 232 FEET FROM THE NORTHWEST CORNER OF SECTION 14; THENCE NORTH 89 DEGREES EAST 176 FEET; THENCE DUE NORTH 119.23 FEET; THENCE SOUTH 89 DEGREES WEST 176 FEET; THENCE DUE SOUTH 119.23 FEET TO THE POINT OF BEGINNING

PARCEL 6: PARCEL #83-054-99-0016-003 PART OF THE NORTHWEST 1/4 OF SECTION 14, TOWN 3 SOUTH RANGE 8 EAST, BEGINNING DUE SOUTH 672.10 FEET AND NORTH 90 DEGREES EAST 408 FEET FROM THE NORTHWEST CORNER OF SECTION 14; THENCE NORTH 89 DEGREES EAST 140 FEET; THENCE DUE NORTH 119.23 FEET; THENCE SOUTH 89 DEGREES WEST 140 FFFT: THENCE DUE SOUTH 119 23 FFFT TO THE POINT OF REGINNING

<u>INSTALLATION INSTRUCTIONS</u>
1. REMOVE PROTECTIVE OUTER WRAPPER.

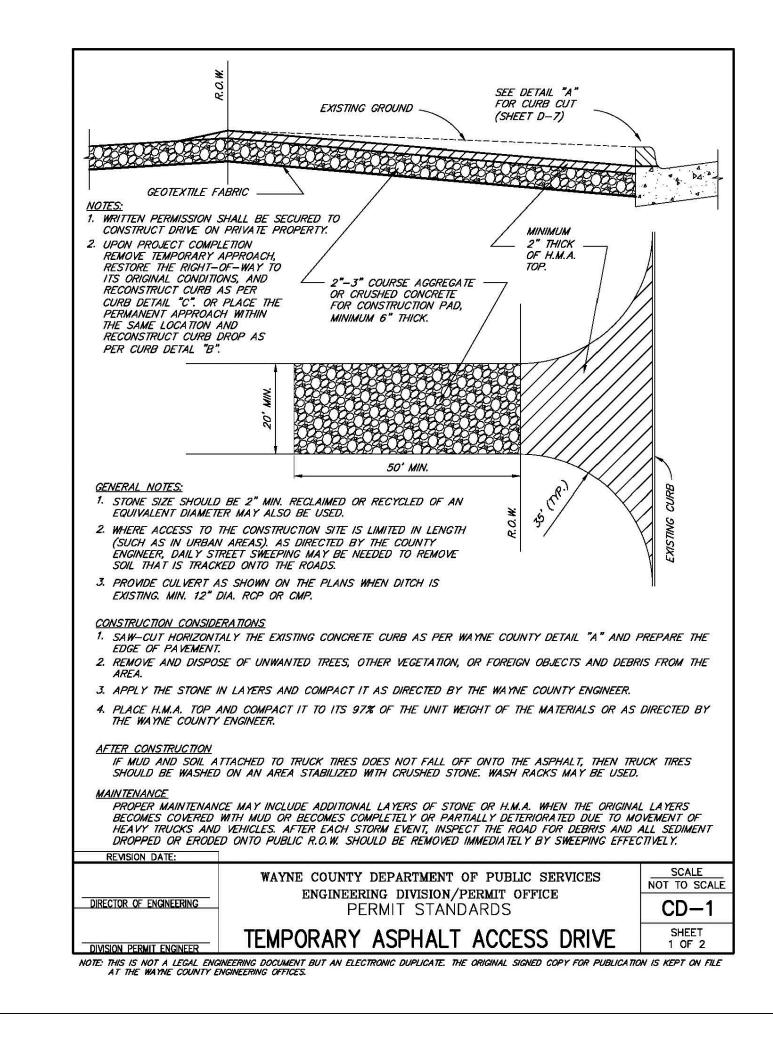
APPEARING AT THE BEGINNING OF EACH ROLL

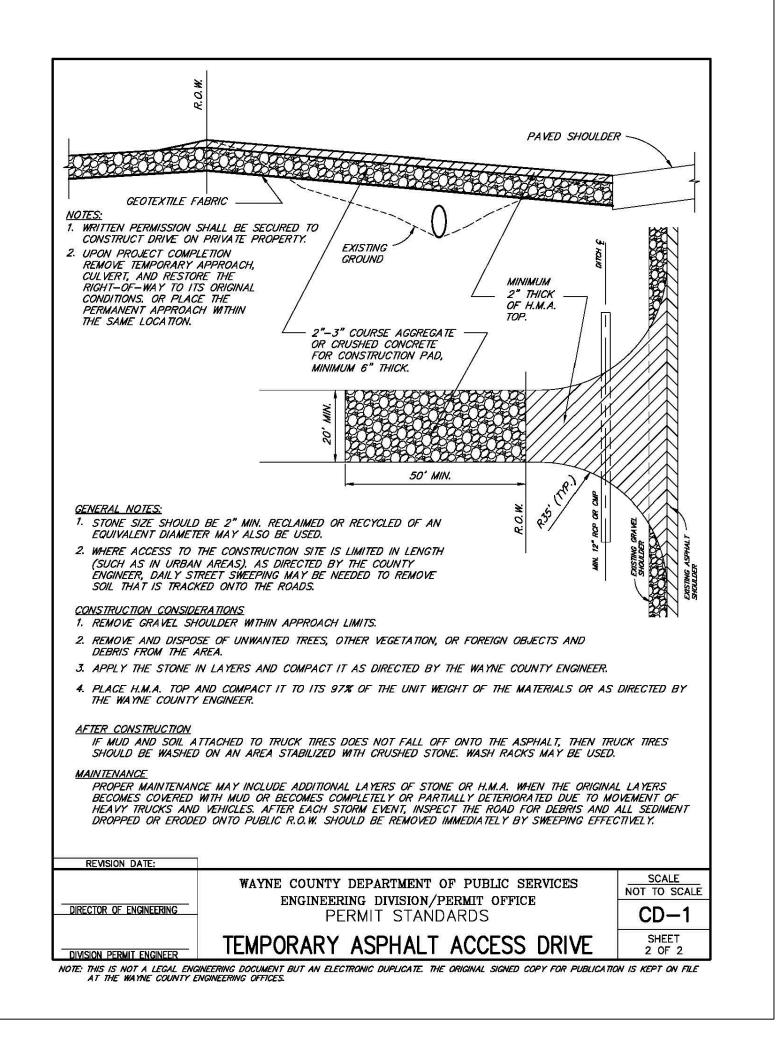
REMAINS SP CONTINUOUSLY WHILE UNROLLING.

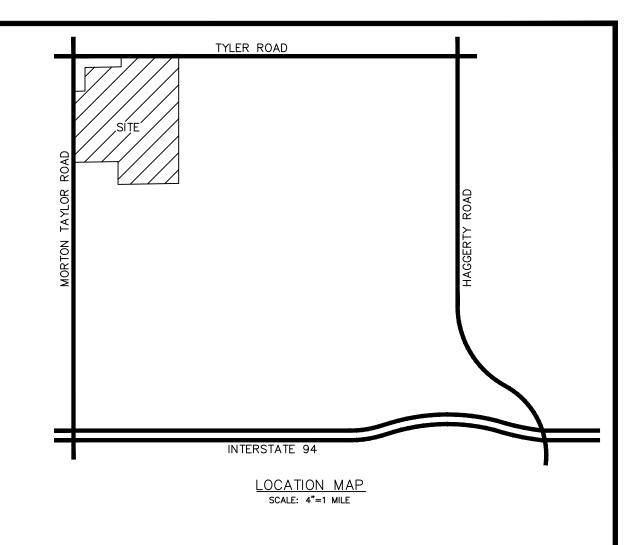
2. START UNROLLING BLANKET AS INDICATED BY SEPARATOR

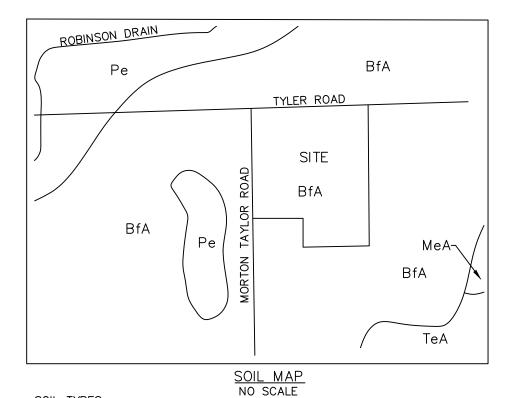
3. BE SURE THAT NETTING IS ON TOP OF THE EXCELSIOR FIBER

AND THE EXCELSIOR IS IN DIRECT CONTACT WITH THE SOIL AND



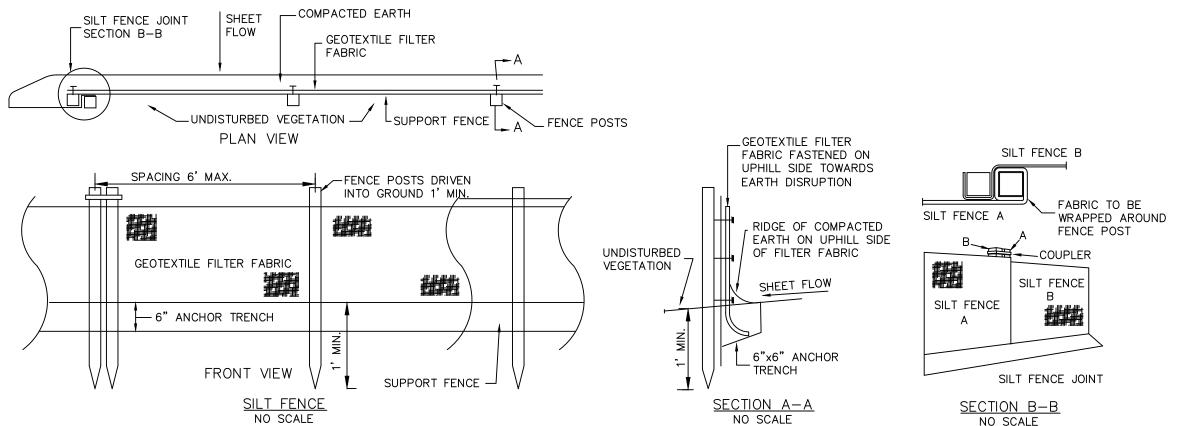


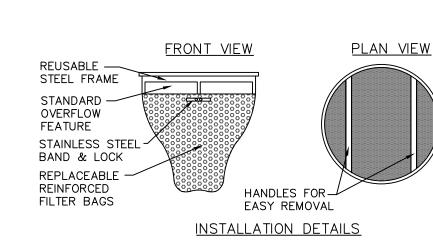




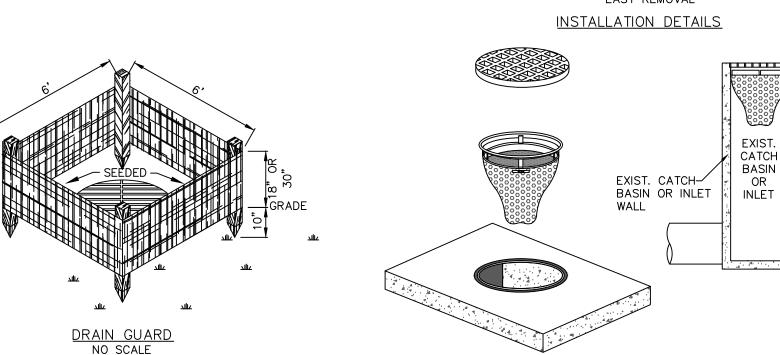
SOIL SURVEY OF WAYNE COUNTY, MICHIGAN BfA: BLOUNT LOAM, ERIE-HURON LAKE PLAIN, 0 TO 2 PERCENT SLOPES, HYDROLOGIC SOIL GROUP D MeA: METAMORA SANDY LOAM, 0 TO 3 PERCENT SLOPES, HYDROLOGIC SOIL GROUP C/D

Pe: PEWAMO LOAM, HYDROLOGIC SOIL GROUP C/D TeA: TEDROW LOAMY FINE SAND, 0 TO 2 PERCENT SLOPES, HYDROLOGIC SOIL GROUP A/D





SILT SACK INLET PROTECTOR



WAYNE COUNTY R19-949 PLAN REVIEW Revisions: 09-16-20 REV PER WCDPS 04-01-21 REV PER WCDPS ZOHAIB SYED 1451 S. GRATIOT AVENUE CLINTON TOWNSHIP, MI 48035 989-708-1878 zohaibsyed2001@yahoo.com

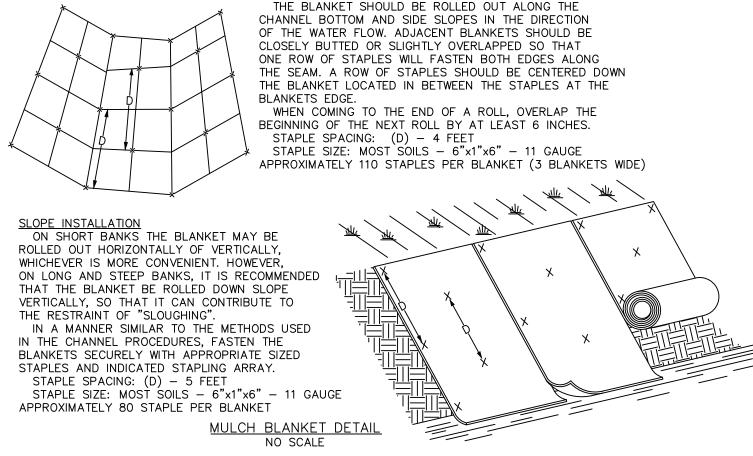
Lehner Associates, Inc ackslash Civil Engineers | Surveying | Planning | Consultin 24"x36" Serving Michigan Since 1912 05-19-21 REV PER OHM FOR WCDPS L.A 17001 Nineteen Mile Road, Suite 3 11-06-19 Clinton Township, Michigan 48038 o: 586.412.7050 | f: 586.412.7114 www.lehnerassociates.com HAMPTON MANOR W.J.T. SYED IMRAN LAND HOLDING LLC OF VAN BUREN TOWNSHIP 19-249 SOIL EROSION AND SEDIMENTATION CONTROL - NOTES AND DETAILS PART OF THE NORTHWEST 1/4 OF SECTION 14.

ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS, SPECIFICATIONS AND GENERAL CONDITIONS OF VAN BUREN TOWNSHIP AND WAYNE

THE DEVELOPER IS RESPONSIBLE FOR RESOLVING ANY DRAINAGE PROBLEMS ON ADJACENT PROPERTIES WHICH ARE THE RESULT OF THE DEVELOPERS'

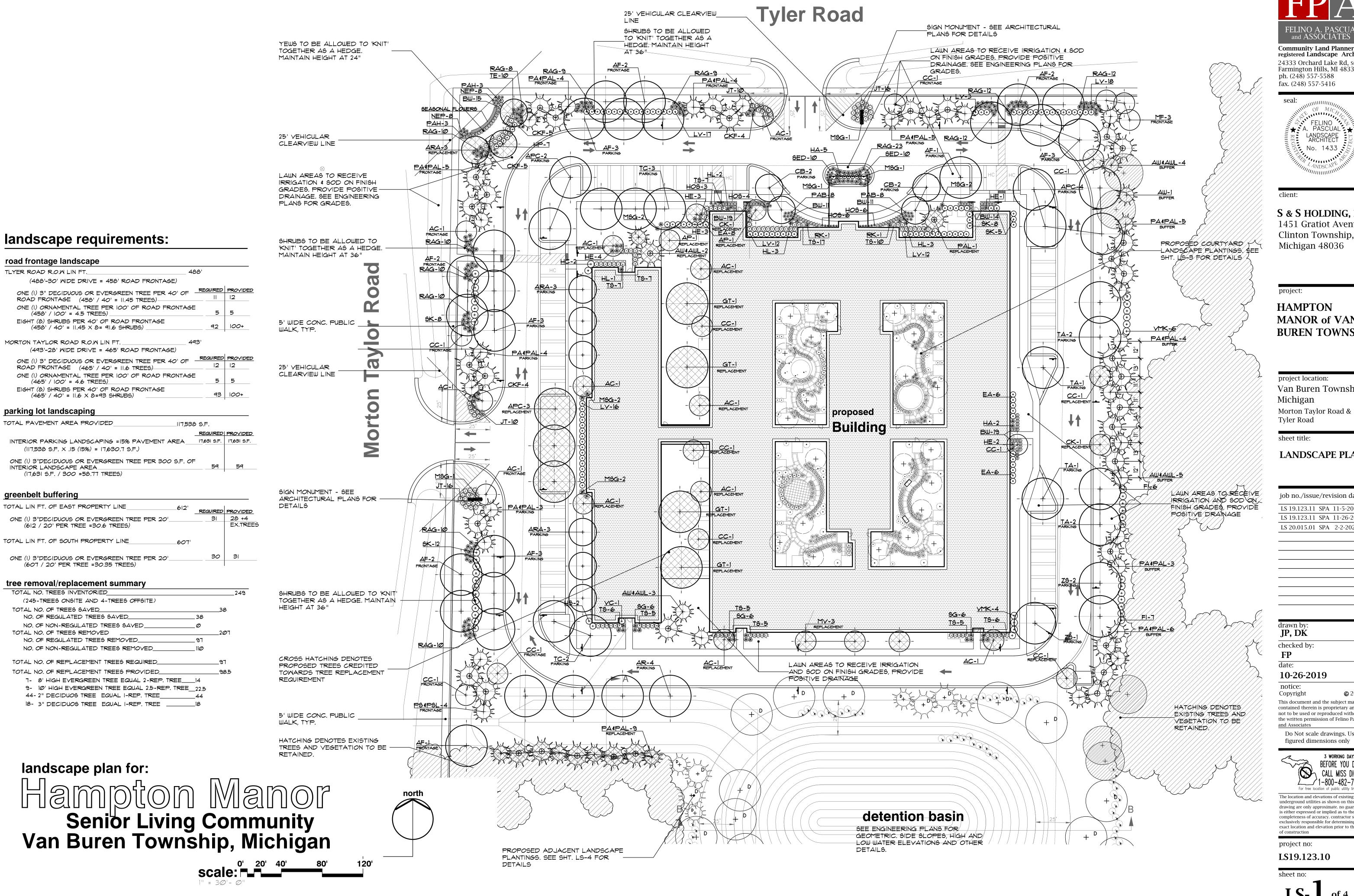
ALL WATER MAINS, SANITARY SEWERS, (AND LEADS) AND STORM SEWERS UNDER PROPOSED OR EXISTING PAVEMENT OR WITHIN INFLUENCE OF PAVEMENT (EXTENDING 3' BEYOND EDGE OF PAVEMENT THEN TAPERING TO ORIGINAL GROUND AT 1:1 SLOPE) SHALL BE SAND BACKFILLED AND COMPACTED TÓ 95% OPTIMUM (PROCTOR) DENSITY. ALL UTILITY CROSSINGS SHALL BE SAND BACKFILLED. SAND

BACKFILLING IS INCIDENTAL TO UNIT PRICES. WORKING DAYS BEFORE YOU DIG CALL MISS DIG 1-800-482-7171 TOLL FREE FOR THE LOCATION OF UNDERGROUND FACILITIES

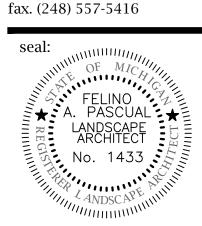


4. STAPLE BLANKETS SECURELY ACCORDING TO THE FOLLOWING STAPLE ARRANGEMENT: THE BLANKET SHOULD BE ROLLED OUT ALONG THE

OWN 3, SOUTH, RANGE 8 EAST, VAN BUREN TOWNSHIF WAYNE COUNTY, MICHIGAN







S & S HOLDING, LLC 1451 Gratiot Avenue Clinton Township, Michigan 48036

project:

HAMPTON MANOR of VAN **BUREN TOWNSHIP**

project location: Van Buren Township Michigan

Tyler Road

LANDSCAPE PLAN

job no./issue/revision date:

LS 19.123.11 SPA 11-5-2019 LS 19.123.11 SPA 11-26-2019 LS 20.015.01 SPA 2-2-2020

JP, DK

checked by:

10-26-2019

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Do Not scale drawings. Use figured dimensions only

nderground utilities as shown on this is either expressed or implied as to the completeness of accuracy, contractor shall be exclusively responsible for determining the exact location and elevation prior to the star of construction

project no: LS19.123.10

sheet no:

plant material list

		-		ai iiot				
key	quant.	botanical name		common name	size	comments	requir	ed
		LARGE AND SMALL DECIDUOUS TREES		_				
AR	4	ACER RUBRUM		RED MAPLE (MULTI-STEM)	3' BB			
ДF	22	ACER X FREEMANII 'JEFFERSRED'		AUTUMN BLAZE RED MAPLE	3" BB			
TC	5	TILIA CORDATA 'GREENSPIRE'		GREENSPIRE LINDEN	3" BB			
CB	4	CARPINUS BETULUS 'FASTIGIATA'		PYRAMIDAL EUROPENAN HORNBEAN	4" BB			
zs	3	ZELKOVA SERRATE 'VILLAGE GREEN'		VILLAGE GREEN ZELKOVA	3" BB			
GT	4	GLEDITSIA TRI. INERMIS 'SKYCOLE'		SKYLINE LOCUST	3" BB		4 RT	
APC	9	ACER P. 'CRIMSON KING'		CRIMSON KING NORWAY MAPLE	3" BB		3 RT	
ŤΑ	6	TILIA AMERICANA		AMERICAN LIDEN	3" BB		3 RT	
ARA	9	ACER R. 'ARMSTRONG'		ARMSTRONG RED MAPLE	3" BB		3 RT	
4P	2	ACER P. 'BLOODGOOD'		BLOODGOOD LACE LEAF MAPLE	6' BB		2 RT	
1F	3	MALUS FLORIBUNDA		JAPANESE FLOWERING CRABAPPLE	2" BB			
4C	12	AMELANCHIER CANADENSIS		SHADBLOW SERVICEBERRY	10' BB	(MULTI-STEM)	1 RT	
cc	11	CERCIS CANADENSIS		EASTERN REDBUD	10' BB	(MULTI-STEM)	8 RT	
CK	2	CORNUS KOUSA		KOUSA DOGWOOD	2" BB		2 RT	
Y /	3	MALUS'RED BARON'		RED BARON CRABAPPLE	2" BB		3 RT	
		SHRUBS						
 3K	33	SYRINGA PATULA 'MISS KIM'		MISS KIM DWARF LILAC	3' B.B.			
	35	LIGUSTRUM VULGARE 'LODENSE'		LODENSE PRIVET 42" O.C. SPACING	3' BB			
MK	10	VIBURNUM X.B. 'MOHAWK'		MOHAWK VIBURNUM	3' BB			
*	2	ROSA X. 'OSA EASY DOUBLE RED''		OSA EASY DOUBLE RED ROSE	#5 CONT.			
<u></u>	7	HYDRANGEA ANNEBELLE		ANNABELLE HYDRANGEA	#5 CONT.			
	13	HYDRANGEA M. 'GLOWING EMBERS'		GLOWING EMBERS HYDRANGEA	#5 CONT.			
<u></u>	9	HYDRANGEA 'LINDSEY ANN'		LA DREAMIN HYDRANGEA	*5 CONT.			
 3G	18	SPIREA B. 'GOLD FLAME'		GOLD FLAME SPIREA	*3 CONT.			
==== ≣A	20	EUONYMUS ALATUS 'COMPACTUS'		DWARF WING BURNING BUSH	3' BB			
/C	3	VIBURNUM X.B. 'CARLESII'		KOREAN SPICE	3' 1/2' B.B			
FI	13	FORSYTHIA X INTERMEDIA		BORDER FORSYTHIA	*3 CONT.			
HP	7	HYDRANGEA PANICULATA		HYDRANGEA LITTLE LIME	*3 CONT.			
HS	2	HIBISCUS SYRIACUS		APHRODITE	*3 CONT.			
		LARGE AND SMALL EVERGREENS						
TS	80	TAXUS X M. 'SEBIAN'		SEBIAN YEW	18" BB	24" O.C. SPACING		
TE	10	TAXUS XM. 'EVERLOW'		EVERLOW YEW	24"-3Ø" BB	32" O.C. SPACING		
<u></u> 3W	89	BUXUS S GREEN VELVET		GREEN VELVET BOXWOOD	18" BB	32" O.C. SPACING		
	42	JUNIPERUS SABINE TAMARISCIFOLIA'		TAM JUNIPER	18" BB	32" O.C. SPACING		
<u>-</u> ΔW	8	ABIES CONCOLOR		CONCOLOR WHITE FIR	8' BB	JE C.O. OF ACTING	6 BT	
4WL	7	ABIES CONCOLOR ABIES CONCOLOR		CONCOLOR WHITE FIR	10' BB 0		4 BT	
	26	PICEA ABIES		NORWAY SPRUCE	8' BB		9 BT	
PAL	27	PICEA ABIES		NORWAY SPRUCE	10' BB 0		9 BT	1 RT
- <u>al</u> -s	2	PINUS STROBUS		WHITE PINE	8' BB		- BT	1
-5 -6L	2			WHITE PINE WHITE PINE	10' BB 0			
<u>JL</u>		PINUS STROBUS		WITTE IT INE			- BT	
		PERENNIALS AND GRASSES						
 >⊿H		PERENNIALS AND GRASSES PENNISETUM ALOPECUROIDES 'HAMELN'		DWARF FOUNTAIN GRASS	#3 CONT.			
	6							
CKF	14	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	+	KARL FOERSTER FEATHER REED GRASS	#3 CONT.			
MSG	12	MISCANTHUS SINENSIS 'MORNING LIGHT'		MORNING LIGHT JAPANESE SILVER GRASS	#3 CONT.			
NEP	16	NEPATA XF. 'WALKER'S LOW'	+	WALKER'S LOW CATMINT	#I CONT.			
RAG	145	RHUS AROMATICA 'GRO-LOW'	\perp	GRO-LOW FRAGRANT SUMAC	#3 CONT.			
BED	20	SEDUM SPECTABILE 'NEON'		NEON SEDUM	#I CONT.			
HOS ———	19	HOSTA		REGAL HOSTA	#I CONT.			
PAB	16	PENNISETUM ALOPECUROIDES 'LITTLE BUNNY'		LITTLE BUNNY FOUNTAIN GRASS	*3 CONT.			

Required Legend Buffer = BT Replacement = RT

general landscape notes:

1. LANDSCAPE CONTRACTOR SHALL VISIT THE SITE, INSPECT EXISITING CONDITIONS, REVIEW PROPOSED PLANTINGS AND RELATED WORK. CONTACT THE OWNER AND/OR LANDSCAPE ARCHITECT WITH ANY CONCERNS OR DISCREPANCY BETWEEN THE PLAN, PLANT MATERIAL LIST, AND/OR SITE CONDITIONS.

2. PRIOR TO BEGINING OF CONSTRUCTION ON ANY WORK, CONTRACTORS SHALL YERIFY LOCATIONS OF ALL ON SITE UTILITIES. GAS, ELECTRIC, TELEPHONE, CABLE TO BE LOCATED BY CONTACTING MISS DIG 1-800-482-7171. ANY DAMAGE OR INTERRUPTION OF SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COORDINATE ALL RELATED WORK ACTIVITIES WITH OTHER TRADES AND REPORT ANY UNACCEPTABLE JOB CONDITIONS TO OWNER PRIOR TO COMMENCING

3. NUMERICAL VALUE ON THE LANDSCAPE QUANTITIES SPECIFIED ON THE PLAN TAKE PRECEEDENCE OVER GRAPHIC REPRESENTATION, VERIFY ANY CONCERN-DISCREPANCY WITH LANDSCAPE ARCHITECT.

4. ALL CONSTRUCTION AND PLANT MATERIAL LOCATION TO BE ADJUSTED ON SITE IF NECESSARY

5. ALL SUBSTITUTIONS OR DEVIATIONS FROM THE LANDSCAPE PLAN MUST BE APPROVED BY VAN BUREN TOWNSHIP AND LANDSCAPE ARCHITECT. 6. ALL LARGE TREES AND EVERGREENS TO BE STAKED, GUYED AND WRAPPED AS DETAIL SHOWN ON PLAN.

1. PLANT BEDS TO BE DRESSED WITH MIN. 4" OF FINELY DOUBLE SHREDDED HARDBARK MULCH.

8. DIG SHRUB PITS I' LARGER THAN SHRUB ROOT BALLS AND TREE PITS 2' LARGER THAN ROOT BALL. BACK FILL WITH ONE PART TOP SOIL AND ONE PART SOIL FROM EXCAVATED PLANTING HOLE.

9. NATURAL COLOR, FINELY SHREDDED HARDWOOD BARK MULCH REQUIRED FOR ALL PLANTINGS.

10. REMOVE ALL TWINE, WIRE AND BURLAP FROM TREE AND SHRUB EARTH BALLS, AND FROM TREE TRUNKS. 4" THICK BARK MULCH FOR TREES IN 4' DIA. CIRCLE WITH 3" PULLED AWAY FROM TRUNK , 4" THICK BARK MULCH FOR SHRUBS AND 4" THICK BARK MULCH FOR PERENNIALS.

II. PLANT MATERIAL QUALITY & INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT AMERICAN ASSOCIATION OF NURSERYMEN LANDSCAPE STANDARDS.

12. PROVIDE PEAT SOD FOR ALL NEW AND DISTURBED LAWN AREAS UNLESS NOTED OTHERWISE.

13. ALL PLANTING AREAS TO BE PREPARED WITH APPROPRIATE SOIL MIXTURES AND FERTILIZER BEFORE PLANT INSTALLATION.

14. PLANT TREES AND SHRUBS GENERALLY NO CLOSER THEN THE FOLLOWING DISTANCES FROM SIDEWALKS, CURBS AND PARKING STALLS:

a). SHADE TREES_ b). ORNAMENTAL AND EVERGREEN TREES (CRAB, PINE, SPRUCE, ETC.)_

c). SHRUBS THAT ARE LESS THAN I FOOT TALL AND WIDE AT MATURITY_

15. NO TREES OR EVERGREENS TO BE INSTALLED OVER ANY PROPOSED OR EXISTING UTILITY LINES AS SHOWN ON THE OVERALL LANDSCAPE PLAN. SEE ENGINEERING PLANS FOR LOCATION AND DETAILS.

16. ALL LAWN AREAS AND LANDSCAPE BEDS TO BE FULLY IRRIGATED WITH A AUTOMATIC UNDERGROUND SYSTEMS, IRRIGATION SYSTEM TO HAVE SEPARTE ZONES FOR LAWN AREAS, PARKING ISLANDS, AND SHRUB BEDS WITH DIFFERENT CONTROL MOISTURE LEVEL ADJUSTMENT PER ZONE AS REQUIRED

IT. UNLESS NOTED OTHERWISE, LANDSCAPE BEDS ADJACENT TO LAWN TO RECIEVE EDGING. EDGING SHALL BE 4" X 1/8" METAL (FINISH BLACK OR GREEN) OR APPROVED EQUAL AND TO BE INSTALLED WITH HORIZONTAL METAL STAKES AT 32" O.C. OR PER MANUFACTERER'S SPECIFICATION.

18. ALL NEW PARKING ISLANDS AND LANDSCAPE BEDS ADJACENT AND NEXT TO BUILDING SHALL BE EXCAYATED OF ALL BUILDING MATERIALS AND POOR SOILS A MIN. OF 12"-16" DEPTH. BACK FILL WITH GOOD, MEDIUM TEXTURED PLANTING SOILS, ADD A MIN. 4" OF TOPSOIL OVERFILL TO FINISH GRADE. PROVIDE POSITIVE DRAINAGE.

19. WATERING OF ALL PLANTS AND TREES TO BE PROVIDED IMMEDIATELY AND MULCHING WITHIN 24 HOURS AFTER INSTALLATION.

20. ALL TREE PITS TO BE TESTED FOR PROPER DRAINAGE PRIOR TO TREE PLANTING. PROVIDE APPROPERATES DRAINAGE SYSTEM AS REQUIRED IF THE TREE PIT DOES NOT DRAIN SUFFICIENTLY.

21. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL LANDSCAPE PLANT MATERIALS AND IRRIGATION INSTALLATION FOR A PERIOD OF TWO YEAR BEGINNING AFTER THE COMPLETION OF LANDSCAPE INSTALLTION DATE APPROVED BY THE CITY OR LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL REPLACE DURING AND AT THE END OF THE GUARANTEE PERIOD, ANY DEAD OR UNACCEPTABLE PLANTS, AS DETERMINED BY THE TOWNSHIP OR LANDSCAPE ARCHITECT, WITHOUT COST TO THE OWNER.

landscape maintenance notes:

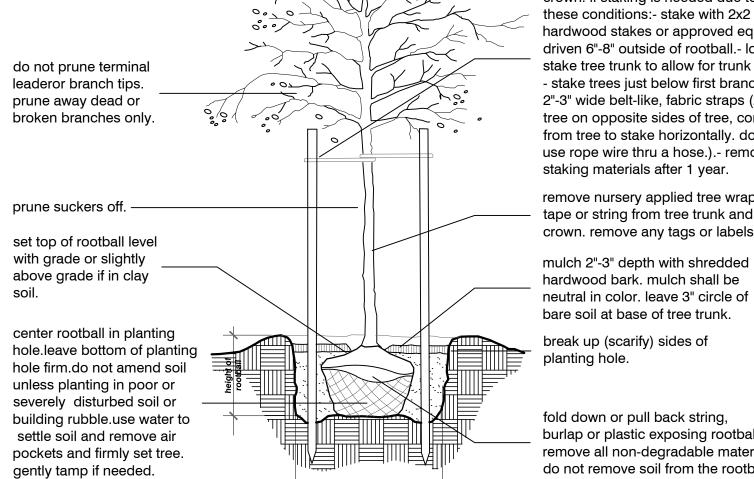
LANDSCAPE MAINTENANCE PROCEDURES AND FREQUENCIES TO BE FOLLOWED SHALL BE SPECIFIED ON THE LANDSCAPE PLAN, ALONG WITH THE MANNER IN WHICH THE EFFECTIVENESS, HEALTH AND INTENDED FUNCTIONS OF THE VARIOUS LANDSCAPE AREAS ON THE SITE WILL BE ENSURED.

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

2. 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.

3. ALL DEAD OR DISEASED PLANT MATERIAL SHALL BE REMOVED AND REPLACED WITHIN SIX (6) MONTHS AFTER IT DIES OR IN THE NEXT PLANTING SEASON, WHICHEVER OCCURS FIRST. THE PLANTING SEASON FOR DECIDUOUS PLANTS SHALL BE BETWEEN MARCH IS AND NOVEMBER 15 OR UNTIL THE PREPARED SOIL BECOMES FROZEN. THE PLANTING SEASON FOR EVERGREEN PLANTS SHALL BE BETWEEN MARCH I AND JUNE I. 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.

4. 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 WILL PLACE THE PARCEL IN NON-CONFORMITY WITH THE APPROVED LANDSCAPE PLAN, AND SHALL BE VIEW AS A VIOLATION OF THIS ORDINANCE AND THE AGREED UPON TERMS OF THE FINAL SITE PLAN APPROVAL.



tree planting detail

3 x width of rootball

do not stake trees unless in heavy clay soil, windy conditions, 3" or greater diameter tree trunk or large crown. if staking is needed due to these conditions:- stake with 2x2 hardwood stakes or approved equal driven 6"-8" outside of rootball.- loosely stake tree trunk to allow for trunk flexing. - stake trees just below first branch with 2"-3" wide belt-like, fabric straps (2 per tree on opposite sides of tree, connect from tree to stake horizontally. do not use rope wire thru a hose.).- remove all staking materials after 1 year.

remove nursery applied tree wrap, tape or string from tree trunk and crown. remove any tags or labels.

hardwood bark. mulch shall be neutral in color. leave 3" circle of bare soil at base of tree trunk. break up (scarify) sides of

fold down or pull back string, burlap or plastic exposing rootball. remove all non-degradable materials. do not remove soil from the rootball.

do not prune terminal leader or branch tips. prune away dead or broken branches only. remove nursery applied tree wrap, tape or string from tree trunk and crown. 3 x width of rootball

evergreen planting detail

stake with 2x2 hardwood stakes or approved equal driven 6"-8" outside of rootball.loosely stake tree trunk to allow for trunk flexing.stake trees just below first branch with 2"-3" wide belt-like, fabric straps (2 per tree on opposite sides of tree, connect from tree to stake horizontally. do not use rope wire thru a hose.). remove all staking materials after 1 year.

set top of rootball level with grade or slightly above grade if in clay soil.

mulch 2"-3" depth with shredded hardwood bark. mulch shall be neutral in color. leave 3" circle of bare soil at base of tree trunk.

fold down or pull back string, burlap or plastic exposing rootball. remove all non-degradable materials. do not remove soil from the rootball.

break up (scarify) sides of planting hole.

center rootball in planting hole. leave bottom of planting hole firm. do not amend soil unless planting in poor or severely disturbed soil or building rubble.use water to settle soil and remove air pockets and firmly set tree. gently tamp if needed.

subgrade

3 x width of rootball

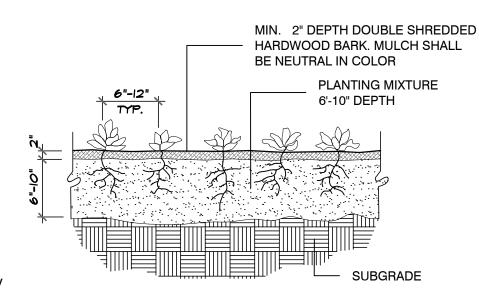
shrub planting detail

fold down or pull back string, burlap or plastic exposing rootball. remove all non-degradable materials. do not remove soil from the rootball

set top of rootball level with grade or slightly above grade if in clay soil mulch 2"-3" depth with shredded hardwood bark.mulch shall be neutral in color.

break up (scarify) sides of planting hole.

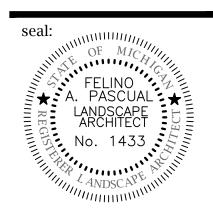
center rootball in planting hole. leave bottom of planting hole firm. do not amend soil unless planting in poor or severely disturbed soil or building rubble. use water to settle soil and remove air pockets and firmly set shrub. gently tamp if needed.



perennial planting detail



registered Landscape Architect 24333 Orchard Lake Rd, Suite G Farmington Hills, MI 48336 ph. (248) 557-5588 fax. (248) 557-5416



S & S HOLDING, LLC 1451 Gratiot Avenue Clinton Township, Michigan 48036

project:

HAMPTON MANOR of VAN **BUREN TOWNSHIP**

project location: Van Buren Township Michigan

Morton Taylor Road & Tyler Road

sheet title: plant material list. planting details and landscape notes

job no./issue/revision date: LS 19.123.11 SPA 11-5-2019 LS 19.123.11 SPA 11-26-2019

LS 20.015.01 SPA 2-2-2020

checked by:

JP, DK

10-26-2019

notice:

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project no:

of construction

LS19.123.10

sheet no:

plant material list

key	quant. 3A	quant. 3B	quant. 3C	quant. 3D	botanical name	common name	size	comments
					SMALL ORNAMENTAL TREES			
AP	1	1	i	2	ACER P. 'BLOODGOOD'	BLOODGOOD LACE LEAF MAPLE	6' BB	
AC	2	1	2	3	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	10' BB	(MULTI-STEM)
CP	-	-	-	-	CRATAEGUS PHAENOPYRUM	WASHINGTON HAWTHORN	1Ø' BB	(MULTI-STEM)
CC	-	1	-	-	CERCIS CANADENSIS	EASTERN REDBUD	1Ø' BB	(MULTI-STEM)
CK	2	1	1	-	CORNUS KOUSA	KOUSA DOGWOOD	2" BB	
MJ	1	1	1	2	MAGNOLIA LILLIFLORA 'JANE'	JANE MAGNOLIA	1Ø' BB	(MULTI-STEM)
					SHRUBS			
Ŧ	5	5	5	9	HYDRANGEA M. 'GLOWING EMBERS'	GLOWING EMBERS HYDRANGEA	#3 CONT.	
HA	11	3	5	7	HYDRANGEA ANNEBELLE	ANNABELLE HYDRANGEA	#3 CONT.	
TS	9	-	17	-	TAXUS X.M. 'SEBIAN'	EVERLOW SEBIAN	24"-3Ø" BB	32" O.C. SPACING
AZ	-	-	-	-	AZALEA 'STEWARTSTONIAN'	STEWARTSTONIAN AZALEA	#3 CONT.	
VC	2	2	1	3	VIBURNUM CARLESII	KOREAN SPICE VIBURNUM	3 1/2' BB	
MK	1	-	3	2	VIBURNUM X.B 'MOHAWK	MOHAWK VIBURNUM	3 1/2' BB	
HL	2	2	-	3	HYDRANGEA 'LINDSEY ANN'	LA DREAMIN HYDRANGEA	*3 CONT.	
WF	4	-	6	2	WEIGLA FLORIDA 'ALEXANDRA'	WINE & ROSES WEIGELA	2'-2 1/2' BB	
BW	48	60	41	58	BUXSUS M. 'GREEN VELVET'	GREEN VELVET BOXWOOD	18" BB	24" O.C. SPACING
SG	6	11	8	-	SPIRAEA X.B. BUMALDA 'GOLDFLAME'	GOLDFLAME SPIREA	#3 CONT	36" O.C. SPACING
SK	4	6	2	-	SYRINGA PATULA 'MISS KIM'	MISS KIM DWARF LILAC	3' B.B.	
RK	3	11	5	5	ROSA X. 'OSA EASY DOUBLE RED''	OSA EASY DOUBLE RED ROSE	#5 CONT.	
					PERENNIALS AND GRASSES			
PAH	6	8	6	8	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	*3 CONT.	
MSG	1	1	1	-	MISCANTHUS SINENSIS 'MORNING LIGHT'	MORNING LIGHT JAPANESE SILVER GRASS	#3 CONT.	

LAWN AREAS TO RECEIVE

IRRIGATION AND SOD ON

.

FINISH GRADES.

.

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bench seat locaton

LAWN AREAS TO RECEIVE IRRIGATION AND SOD ON FINISH GRADES.

YEWS TO BE ALLOWED TO KNIT' TOGETHER AS A HEDGE, MAINTAIN HEIGHT

BOXWOOD TO BE ALLOWED TO 'KNIT' TOGETHER AS A HEDGE MAINTAIN HEIGHT AT



decorative planter urn

MANUFACTURER: HADDONSTONE LTD. 32201 UNITED AVE. PUEBLO, CO 81001 WEB: WWW.HADDONSTONE.COM PH. 866-733-8225

MODEL: STONE PLANTER URNS PER OWNER SELECTIONS



outdoor wicker lounge chairs DESCRIPTION: 5-PIECE RESIN WICKER PATIO FURNITURE WITH CUSHION

FINISH SELECTION BY OWNER

<u>√MK-1</u>

LAWN AREAS TO RECEIVE IRRIGATION AND SOD ON FINISH GRADES.

B wicker lounge chairs

LAWN AREAS TO RECEIVE IRRIGATION AND SOD ON

outdoor wicker table / chairs

(4-CONDITIONS) DESCRIPTION: RESIN WICKER CHAIRS AND TEMPERED ROUND TABLE WITH CUSHION



concrete walk or patio BROOM FINISH WITH 4" WITH TROWEL SMOOTH EDGE

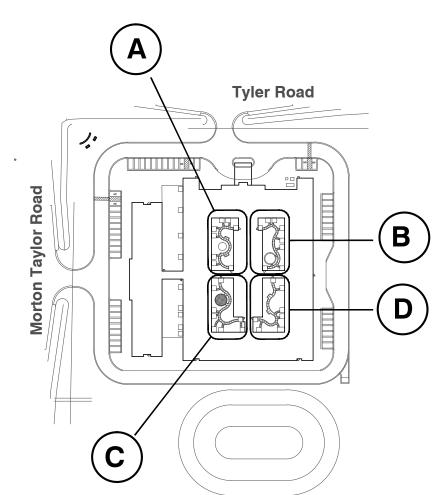


bench seat (4-CONDITIONS)

<u>\$K-1</u>

FINISH: TEXTURE PEWTER

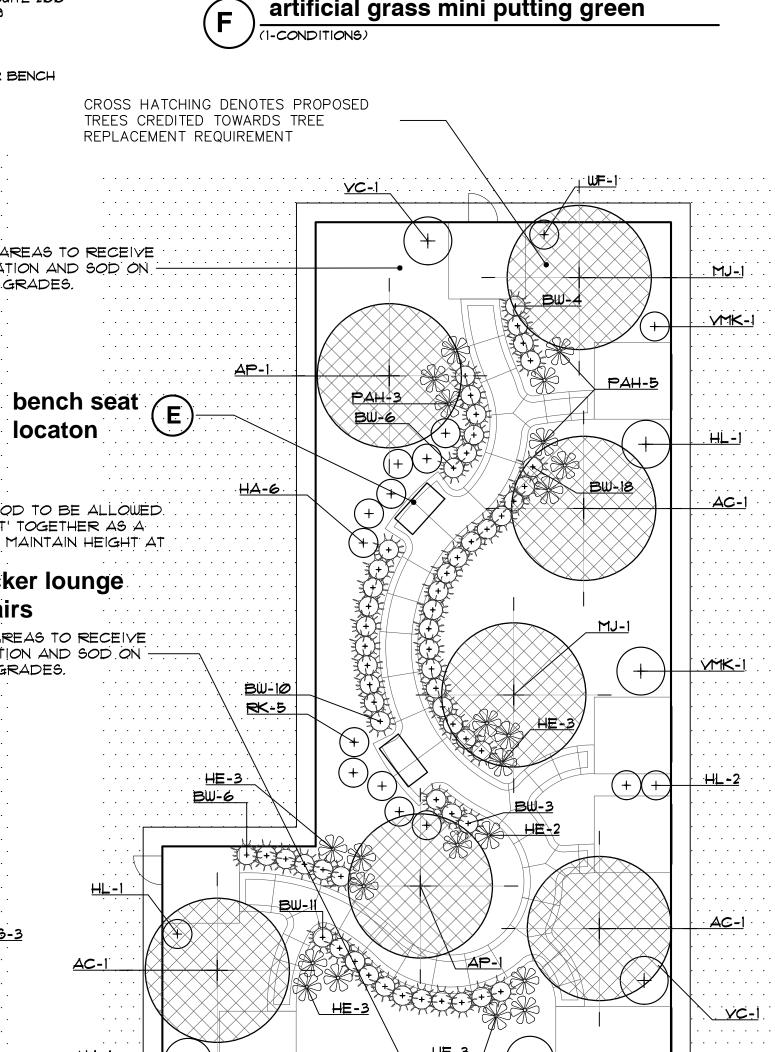
MANUFACTURER: ANOVA, INC. OR EQUAL 211 NORTH LINDBERGH BLVD. SUITE 200 ST. LOUIS, MISSOURI 63141-7809 TOLL FREE NO. (800)231-1327 WWW: ANOYAFURNISHINGS.COM MODEL NO. LEXC6 or EQUAL DESCRIPTION: 6' WIDE CONTOUR BENCH



key reference location map



artificial grass mini putting green



(3A) courtyard planting detail

CROSS HATCHING DENOTES PROPOSED

TREES CREDITED TOWARDS TREE

REPLACEMENT REQUIREMENT

(3B) courtyard planting detail

(3C) courtyard planting detail

(3D) courtyard planting detail



S & S HOLDING, LLC 1451 Gratiot Avenue Clinton Township, Michigan 48036

HAMPTON MANOR of VAN **BUREN TOWNSHIP**

project location: Van Buren Township Michigan Morton Taylor Road & Tyler Road

sheet title:

COURTYARD LANDSCAPE PLANTING DETAIL

job no./issue/revision date LS 19.123.11 SPA 11-5-2019 LS 19.123.11 SPA 11-26-2019 LS 20.015.01 SPA 2-2-2020

drawn by: **JP, DK**

checked by:

10-26-2019 notice: Copyright

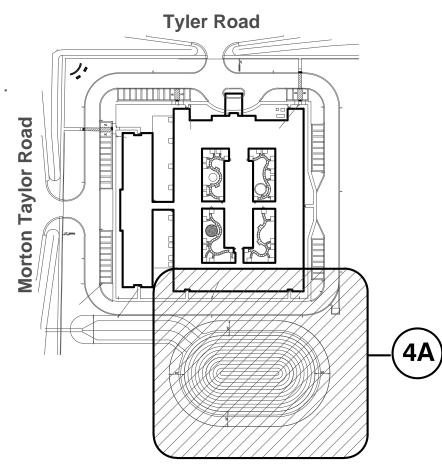
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exact location and elevation prior to the star

project no: LS19.123.10

sheet no:

LS-3 of 4



reference location map

basin construction notes

NO SCALE

1. Proper construction techniques, particularly installation of vegetation, are important to the successful functioning of open detention basins, especially for constructed wetland type open detention basins in order to establish a dense and diverse emergent wetland plant community. General guidelines for vegetation installation include:

2. If emergent plant stock is proposed in the pond zone, the supplied plug material must have sufficient vegetative growth extending out of the water once planted.

3. Seed must be planted above the permanent water

4. All seeded areas to be properly stabilized with a much

5. Additional guidance on seed and sod specifications and installation is provided in Section 8.5.1 of this manual. be required for one year to protect the plantings (e.g., snow fence or netting to deter wildlife, prevent

7. If detention basin are compacted, the slopes must be rototilled. 4" (four) of compost or topsoil must be added

6. Depending on the type of vegetation, barriers may

8. If detention basin are compacted, the slopes must be rototilled. 4" (four) of compost or topsoil must be added

9. "No mow zone" signs must be placed around the basin

10. Detention basin native seeding to be performed in early spring or late fall. aquatic plants should be installed in the summer after the cover crop has established

K. Reseed banks near inlet/outlet and stabilize eroded banks

M. Inspect detention basin and buffer strip zone for invasive

species such as purple loosestrife, phragmites, buckthorn

(common & glossy), honeysuckle and autumn olive that

out-compete native vegetation (annually - July).

has occurred in the buffer strip (annually).

L. Ensure that no mowing, chemical application, or construction

basin maintenance notes

blanket pegged in place.

A. Maintenance activities for open detention basins are listed below. These activities must be identified in the maintenance plan that the applicant must submit with an application for storm water construction approval. Additionally, provision for maintenance access should be shown on the plan; it is recommended that the maintenance access to the storm water management system be a minimum of 15-feet wide. The landscape plan

should be designed to prevent obstruction of the access by

B. Inspect and clean the storm sewer system and catch basins upstream from the detention basin (every five years or as needed).

C. Inspect for sediment accumulation at the inlet pipes and remove sediment which may be impeding flow (semiannually and after rain events).

D. Inspect inlets, outlets, and appurtenances (e.g., grates) annually for structural integrity.

E. Check the outlets regularly for clogging and clean when necessary, especially after large storm events. F. Inspect the stone around riser-type outlet structures semiannually and after rain events. If stone has accumulated sediment, vegetation and/or debris to an extent that water is not flowing through the stone and

out of the pond as originally designed, then the stone

should be replaced. G. Check for floatables and debris and remove as

necessary. H. Remove dead vegetation that obstructs flow (early

I. Check banks and bottom for erosion and correct as necessary (annually).

twelve inches or if resuspension is observed

QB

CO

LS

CC

CS

CF

MK

AW

PS

PSL

AWL 2

AR 9

20

3Ø

J. Remove sediment when accumulation reaches six to

quant. | botanical name

SHRUBS

QUERCUS 'BICOLOR'

ACER R. 'FRANKSRED'

CELTIS OCCIDENTALIS

CERCIS CANADENSIS

CORNUS STOLONIFERA

CORNUS FLAVIRAMEA

ABIES CONCOLOR

ABIES CONCOLOR

PINUS STROBUS

PINUS STROBUS

VIBURNUM X.B. 'MOHAWK'

FORSYTHIA X. INTERMEDIA

LARGE AND SMALL EVERGREEN TREES

LIQUIDAMBAR STYRACIFLUA

ARGE AND SMALL DECIDUOUS TREES

N. Have a professional selectively remove invasive species (annually, July-August). Purple loosestrife flower heads can be clipped off to reduce seed production until plant removal may be achieved. If woody debris is cut, the cut should be four inches

plant material list

above the ground surface and the stumps should be treated with herbicide immediately after cutting. Monitor for sucker growth. O. Planting must be monitored for two years after establishment.

Replacement will be necessary as determined by the agency having jurisdiction over the system.

P. During the first two growing seasons, all areas planted with native prairie seed mix should be mowed three times at a height of 6-8 inches in order to control weeds. Beginning in the third year, a burning or mowing regimen should be instituted, either burning or mowing once in spring, or once in the fall.

THE PROPOSED VARIETIES AND QUANTITIES OF SEEDS AND PLANTING MATERIALS FOR THE FOREBAYS-DETENTION BASIN SYSTEM MEET OR EXCEED THE MINIMUM REQUIREMENTS IN CHAPTER 8 OF THE "WAYNE COUNTY STORM WATER ORDINANCE"

common name

SWAMP WHITE OAK

HACKBERRY TREE

EASTERN REDBUD

REDTWIG DOGWOOD

MOHAWK VIBURNUM

BORDER FORSYHTIA

CONCOLOR WHITE FIR

CONCOLOR WHITE FIR

WHITE PINE

WHITE PINE

YELLOWTWIG DOGWOOD

AMERICAN SWEETGUM

RED SUNSET RED MAPLE

size

3" BB

14' BB

3" BB

3" BB

8' BB

3' BB

3' B.B

3' B.B

8' BB

8' BB

10' BB 0

10' BB 0

comments

MULTI-STEM 4-CANES

MULTI-STEM 4-CANES

60" O.C. SPACING

60" O.C. SPACING

60" O.C. SPACING

60" O.C. SPACING

basin vegetation notes

A landscaping plan is required for open detention basins, due to the importance of the vegetation to the function on of the entire system. Vegetation should be specified for each zone within the detention basin as follows:

Pond zone (permanent water depths from 0 to 3 ft deep): Vegetation in the pond zone is entirely or partially submerged and should consist of a combination of native plant plugs and bare-root stock.

Edge zone (permanent water elevation to bank full elevation). Vegetation in the edge zone must withstand periods of inundation and drought. This vegetation also stabilizes the side slopes of the facility.

Upland zone (bank full elevation to 100-year flood elevation and beyond): Vegetation in the upland zone may have little or no inundation by storm water, and must withstand periods of drought. This vegetation also stabilizes the side slopes of the system. Note that the buffer strip lies within the upland

AR-3 REPLACEMENT TREES CREDITED TOWARDS TREE REPLACEMENT REQUIREMENT CO-2 HATCHING DENOTES EXISTING WOODS AND VEGETATION TO HATCHING PATTERN DENOTES POND ZONE SEED MIX CO-3 SOUTH BUFFE HATCHING PATTERN DENOTES UPLAND SEED HATCHING PATTERN DENOTES EDGE ZONE SEED MIX HATCHING PATTERN DENOTES UPLAND SEED MIX DISTURBED AREAS TO RECEIVE LAWN SEED MIX ON FINISH GRADES. PROVIDE POSITIVE DRAINAGE. HATCHING PATTERN SEED MIX HATCHING PATTERN DENOTES EDGE ZONE SE detention pond planting detail DISTURBED AREAS TO RECEIVE LAWN CROSS HATCHING DENOTES PROPOSED TREES SEED MIX ON FINISH GRADES. PROVIDE CREDITED TOWARDS TREE REPLACEMENT POSITIVE DRAINAGE. REQUIREMENT

·LAWN: AREAS: BETWEEN: POND: AND: PARKING TO RECEIVE LAWN SEED MIX ON FINISH

GRADES. PROVIDE POSITIVE DRAINAGE.

DETENTION BASIN - SEE ENGINEERING PLANS

FOR FINAL SIZE, SIDE SLOPES, WATER

ELEVATION, TOP OF BANK AND DETAILS.

upland zone seed mix

Natural Basin: Dry Upland Zone:Permanent Grasses (Minimum 5 species) Common Name Scientific Name **Common Name** June grass Little bluestem grass Switch grass Panicum virgatum Indian grass Side-oats gramma Bouteloua curtipendula Sorghastrum nutans Elymus canadensis Canada wild rye Sporobolius heterolepis Prairie dropseed

1	Natural	Basin:	ı
•	·a·a·a·		

Scientific Name	Common Name	Scientific Name	Common Name
Amorpha canescens	Lead plant	Lupinus perennis	Wild lupine
Anemone cylindrica	Thimbleweed	Monarda fistulosa	Wild bergamot
Aquilegia canadensis	Wild columbine	Parthenium integrifolium	Wild quinine
Asclepias tuberosa	Butterfly weed	Petalostemum purpureum	Purple prairie clover
Aster ericoides	Heath aster	Physostegia virginiana arenaria	Prairie obedient plant
Aster laevis	Smooth blue aster	Pycnanthemum virginianum	Common mountain mint
Aster novae-angliae	New England aster	Ratibida pinnata	Yellow coneflower
Baptista leucantha	White wild indigo	Rudbeckia hirta	Black-eyed susan
Cassia fasciculata	Partridge pea	Rudbeckia subtomentosa	Sweet black-eyed susar
Coreopsis lanceolata	Sand coreopsis	Silphium laciniatum	Compass plant
Coreopsis tripteris	Tall coreopsis	Solidago juncea	Early goldenrod
Echinacea purpurea	Broad-leaved purple coneflower	Solidago nemoralis	Old-field goldenrod
Eryngium yuccifolium	Rattlesnake master	Solidago rigida	Stiff goldenrod
Helianthus mollis	Downy sunflower	Tradescantia ohiensis	Common spiderwort
Heliopsis helianthoides	False sunflower	Vernonia altissima taeniotricha	Hairy tall ironweed
_espedeza capitata	Round-headed bush clover	Veronicastrum virginicum	Culver's root
_iatris aspera	Rough blazing star		

Note: These native plants are appropriate for areas surrounding basins categorized as natural basins and recommended within areas that have elevations higher than the 100-year flood elevation. This seed selection consists of dry-to-mesic prairie, basic prairie, and low-profile prairie plant species.

edge zone seed mixtures

OPEN DETENTION BASINS: EDGE ZONE VEGETATION A variety of trees, shrubs, wildflowers, and grasses may be planted in the edge zone along the banks of detention basins. A native wetland edge or native sedge meadow seed mix is recommended. Edge Zone: Native Seed Mixes

Grasses/Sedges/Rushes (Minimum 5 species)					
Scientific Name	Common Name	Scientific Name	Common Name		
Carex `lurida	Bottlebrush sedge	Leersia oryzoides	Rice cut grass		
Carex vulpinoidea	Brown fox sedge	Scirpus acutus	Hard-stemmedbulrush		
Echinochloa crusgalli	Barnyard grass	Scirpus atrovirens	Dark green rush		
Elymus Canadensis	Canada wild rye	Scirpus pungens	Chairmaker's rush		
Glyceria striata	Fowl manna grass	Scirpus validus creber	Great bulrush (softstem)		
Juncus effusus	Common rush				

Native Forbs (Minimum 9 species)					
Scientific Name	Common Name	Scientific Name	Common Name		
Acorus calamus	Sweet flag	Mimulus ringens	Monkey flower		
Actinomeris alternifolia	Wingstem	Peltandra virginica	Arrow arrum		
Alisma subcordatum	Common water plantain	Polygonum	5		
Asclepias incarnate	Swamp milkweed	pensylvanicum Pontederia cordata	Pinkweed Pickerel weed		
Aster simplex	Panicled aster	Rosa palustris	Swamp rose		
Bidens spp.	Bidens, various	Rudbeckia laciniata	Wild golden glow		
Cassia hebecarpa	Wild senna	Sagittaria latifolia	Common arrowhead		
Eupatorium perfoliatum	Common boneset	Spiraea alba	Meadowsweet		

Verbena hastata

Vernonia fasciculata Common ironweed

Note: A quick growing species such as annual rye grass (lillium multiflorum))and species which will provide the permanent cover (e.g., seed oats) should also be included in all Edge Zone seed mixes.

Blue flag iris

Seedbox

Helenium autumnale

Iris virginica shrevei

Ludwigia alternifolia

pond zone plant list (plugs and bare root)

Native Plants for Pond Zone (min. 4-species)

Scientific Name	Common Name	Spacing (inches O.C.)	Scientific Name	Common Name	Spacing (inches O.C.)
Acorus calamus	Sweet flag	24	Polygonum amphibium	Water knotweed	36
Carex lacustris	Common lake sedge	24	Pontederia cordata	Pickerel weed	24
Cephalanthus occidentalis	Buttonbush	5 feet	Potamogeton natans	Common pondweed	36
Decodon verticillatus	Swamp Loosestrife	24	Potamogeton pectinatus	Sago pondweed	36
Elodea canadensis	Common waterweed	36	Sagittaria latifolia	Common arrowhead	24
Hibiscus laevis	Halberd-leaved rose mallow	24	Scirpus acutus	Hard-stemmed bulrush	18
Hibiscus palustris	Swamp rose mallow	24	Scirpus atrovirens	Dark green rush	18
Iris virginica shrevei	Blue flag iris	18	Scirpus cyperinus	Wool grass	24
Justicia americana	Water willow	5 feet	Scirpus fluviatilis	River bulrush	18
Nelumbo lutea	Lotus	48	Scirpus validus creber	Great bulrush	18
Nuphar advena	Yellow pond lily	36	Sparganium americanum	American bur reed	18
Nymphaea tuberosa	White water lily	36	Sparganium eurycarpum	Common bur reed	18
Peltandra virginica	Arrow arum	18	Vallisneria americana	Tape grass	36

Note: Plant species selected should cover 25% of the pond zone and should also cover the range of water depths within the pond zone(2ft to 3ft). (For example, 4 plant species may not all be placed at an 18ft water depth covering 25% of the pond



PROPOSED UNDERGROUND UTILITIES-SEE

ENGINEERING PLAN FOR FINAL LOCATIONS,

CROSS HATCHING

DENOTES PROPOSED

SIZES, TYPES, ELEVATIONS AND DETAILS.

PROPOSED ADJACENT LANDSCAPE PLANTINGS. SEE SHT. LS-1 FOR

DETAILS

24333 Orchard Lake Rd, Suite G Farmington Hills, MI 48336 ph. (248) 557-5588 fax. (248) 557-5416

S & S HOLDING, LLC 1451 Gratiot Avenue Clinton Township, Michigan 48036

project:

HAMPTON MANOR of VAN **BUREN TOWNSHIP**

project location: Van Buren Township , Michigan Morton Taylor Road &

sheet title:

Tyler Road

DETENTION PLANTING DETAIL

iob no./issue/revision date: LS 19.123.11 SPA 11-5-2019 LS 19.123.11 SPA 11-26-2019 LS 20.015.01 SPA 2-2-2020

JP, DK checked by:

10-26-2019 notice:

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LS19.123.10

of construction

