

SITE

EXISTING

ROCHESTER HILLS, MICHIGAN

ASSOCIATES

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SCOTT

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JAMES

SOMERSET PINES

ALL TREES BEING RETAINED WILL BE IDENTIFIED BY APPROVED METHOD.

WHEN PROTECTIVE BARRIERS ARE NECESSARY, THEY WILL BE ERECTED BEFORE WORK STARTS.

THE TREES WILL CONFORM TO THE GUIDEUNES ESTABLISHED IN THE MOST RECENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, AND MUST BE APPROVED BY THE CITY PRIOR TO PLANTING.

REPLACEMENT AND RELOCATED TREES MUST BE STAKED, FERTILIZED AND MULCHEO, AND SHALL BE GUARANTEED BY THE DEVELOPER TO EXHIBIT A NORMAL GROWTH CYCLE FOR TWO (2) YEARS FROM THE DATE OF APPROVAL OF THE CITY OF ROCHESTER HILLS LANDSCAPE ARCHITECT.

TREE DATA:

TOTAL NUMBER OF TREES SURVEYED: 1051
MENUS DEAD TREES: -40
MENUS DEADT TREES: -55
TOTAL NUMBER OF REGULATED TREES: 952

TREE REPLACEMENT CALCULATIONS HAVE NOT BEEN UPDATED TO ACCOMMODATE THE REVISED SITE LAYOUT AT THIS TIME. THE TOTAL NUMBER OF TREES PROPOSED (109) REFERS TO THE PREVIOUSLY APPROVED PLAN, LAST DATED APRIL 11, 2007. THE TREE REPLACEMENT CALCULATIONS WILL BE REVISED TO REFLECT THIS SITE LAYOUT AND SUBMITTED FOR APPROVAL AS REQUIRED.

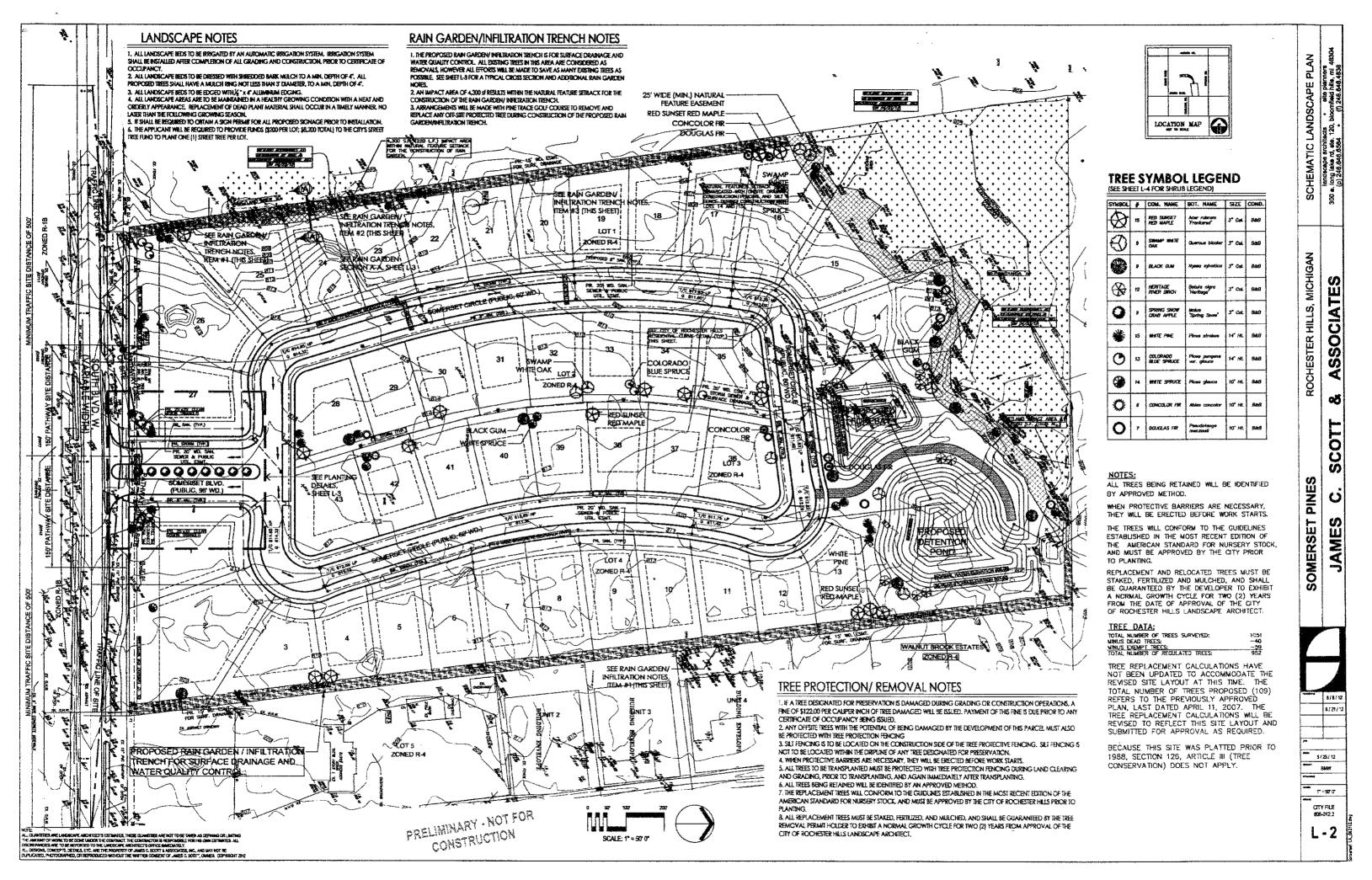
BECAUSE THIS SITE WAS PLATTED PRIOR TO 1988, SECTION 126, ARTICLE III (TREE CONSERVATION) DOES NOT APPLY.

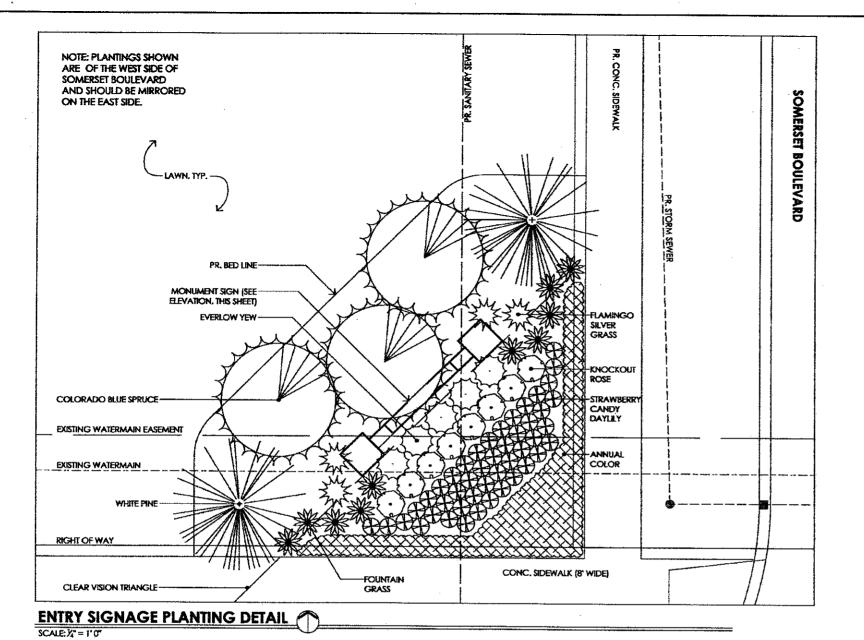
PRIOR APPROVAL IS REQUIRED TO PLANT ANY TREE OR SHRUB ON THE PUBLIC RIGHT-OF-WAY. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF THE PUBLIC ROAD. SHADE TREES AND SHRUBS MUST BE PLANTED AT LEAST 5' FROM THE EDGE OF THE PUBLIC WALKWAY. EVERGREEN AND ORNAMENTAL TREES MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF A PUBLIC WALKWAY. NO TREES OR SHRUBS MAY BE PLANTED WITHIN THE TRIANGULAR AREA FORMED AT THE INTERSECTION OF ANY STREET RIGHT-OF-WAY LINES AT A DISTANCE ALONG EACH LINE OF 25' FROM THEIR POINT OF INTERSECTION. NO TREES OR SHRUBS MAY BE PLANTED IN THE TRIANGULAR AREA FORMED AT THE INTERSECTION OF ANY DRIVEWAY WITH A PUBLIC WALKWAY AT A DISTANCE ALONG EACH LINE OF 15' FROM THEIR POINT OF INTERSECTION. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM ANY FIRE HYDRANT. SHADE AND EVERGREEN TREES MUST BE AT LEAST 15' AWAY FROM THE NEAREST OVERHEAD WIRE. TREES MUST BE PLANTED A MINUMIM OF 5' FROM AN UNDERGROUND UTILITY, UNLESS THE CITY OF ROCHESTER HILLS REQUIRES A GREATER DISTANCE.

5/8/12 5/2/12 5/2/12

5/25/12 BRW utes 1°=50°0°

CITY FILE #06-012-2





COLORADO BLUE SPRUCE

DECORATIVÉ BRICK WALL

(5' HT.) WITH LEMESTONE

CAP AND ACCENTS

28" x 28" x 66" HT. BRICK

PILLAR WITH BEVELED

LIMESTONE CAP

STRAWBERRY

CANDY DAYLLY

BLACK IRON LETTERING

BOLTED TO BRICK FACE

FOR MAMENTAL

GRASSES

KNOCKOUT ROSE

(EVERLOW YEW BEHIND)

ENTRY WALL AND SIGNAGE ELEVATION

NOT TO SCALE - FOR ILLUSTRATION PURPOSES ONLY

RAIN GARDEN NOTES

1. UPON COMPLETION OF ANY NECESSARY GRADING, TOPSOIL SHALL BE PROVIDED TO A DEPTH OF 2" TO INSURE A FERTILE GROWING MEDIUM, EXISTING TOPSOIL IS ACCEPTABLE (IF SCRAPED AND STOCKPILED PRIOR TO ANY GRADING).

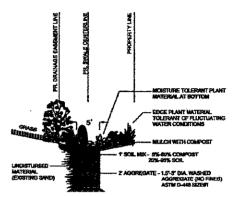
2. RAIN GARDEN TO BE SEEDED WITH A WEILAND/ MEADOW SEED MIX

AT A SOWING RATE OF 15 LBS/ACRE. SEED MIX SHALL BE PROVIDED BY ERIST CONSERVATION SEEDS (MEADVILLE, PA, 800-873-3322), www.emisseed.com) AND CONTAIN THE FOLLOWING SPECIES, OR AN EQUIVALENT:

TEM :	PUTRY	CERM
VIRGINIA WED RYE (Elymes virginicus)	19.72%	91%
FORE BLUEGRASS (Pos poliustris)	16.89%	95%
CX-EYE SUMFLOWER (Heliopule belianthoides)	4.52%	87%
ZIG ZAG ASTER (Aster prenontholdes)	4.68%	4%
NEW YORK PRONTIEED (Verania novebaracensis)	3.72%	58%
WINGSTEM (Verbusina alternifolia)	3.53%	75%
JOE PYE WEED (Eupotenium fistulosum)	3.51%	58%
HOP SEDGE (Corex lupiting)	3.42%	53%
SPOTTED JOY PYE WEED (Expotorium maceletom)	2.54%	72%
COSMOS/BRISTLY SEDGE (Ceres comong)	2.48%	90%
GREEN BULRUSH (Schous etrovirens)	2.10%	82%
WOOLGRASS (Scirpus cyperinus)	1.82%	74%
BONESET (Espatorism perfoliatum)	1.81%	70 X
SLUE VERVAIN (Verbens hostate)	1.74%	74 X
WRENCE LEAF COLDENROD (Solidoge ragono)	1.82%	86%
LURID SEDICE (Correx funide)	1.07%	\$1 %
GOLDEN ALEXANDER (Zizio euroe)	1.00%	77%
ROUGH AVENS (Geem locinistem)	0.89%	81%
SOFT RUSH (Junces effusus)	0.87%	80%
OFFICH STONECROP (Punithorum sedelides)	0.66%	81%
NEW ENGLAND ASTER (Aster novee-unglies)	0.40%	75%
SEEDBOX (Ludeinia atternitatio)	0.35%	80%
GOLDEN RAGNORT (Senecio sureus)	.032%	20%
CRASS (FAVE) COLDENSOS (Solidona arminifella)	AT7Y	257

3. STRAW BLANKETS (OR AN EQUIAL TREATMENT) MY BE REQUIRED TO PREVENT EROSION PRIOR TO RAIN GARDEN ESTABLISHMENT.

4. PREVENTATIVE MOWING OF THE RAIN GARDEN AREA MAY BE REQUIRED PERIODICALLY TO HELP CONTROL THE SPREAD OF UNWANTED SPECIES. HOWEVER, IT IS ADVISED TO LET THE RAIN GARDEN GROW NATURALLY, AND ONLY MARTTAIN AS REQUIRED.



DEVELOPER TO PROVIDE PLANTING MIX WITHIN RAIN GARDENINFILT NATION TRENCH AS CUTUMED IN LANDSCAPE PLAN.

DEVELOPER TO PROVIDE THIS SYSTEM OR APPROVED EQUA

RAIN GARDEN/INFILTRATION TRENCH TYPICAL CROSS SECTION NOT TO SOME

RAIN GARDEN SECTION A-A

LANDSCAPE NOTES

1. ALL LANDSCAPE BEDS TO BE IRRIGATED BY AN AUTOMATIC IRRIGATION SYSTEM. BRIGATION SYSTEM SHALL BE INSTALLED AFTER COMPLETION OF ALL GRADING AND CONSTRUCTION, PRIOR TO CERTIFICATE OF OCCUPANCY.

2. ALL LANDSCAPE BEDS TO BE DRESSED WITH SHREDDED BARK MULCH TO A MIN. DEPTH OF #. ALL PROPOSED TREES SHALL HAVE A MULCH RING NOT LESS THAN 3' DIAMETER, TO A MIN. DEPTH OF #.

3. ALL LANDSCAPE BEDS TO BE EDGED WITH 1/6 " x 4" ALLIMINUM EDGING.
4. ALL LANDSCAPE AREAS ARE TO BE MAINTAINED IN A

4. ALL LANDSCAPE AREAS ARE TO BE MAINTAINED IN A HEALTHY GROWING CONDITION WITH A NEAT AND ORDERLY APPEARANCE. REPLACEMENT OF DEAD PLANT MATERIAL SHALL OCCUR IN A TIMELY MANNER, NO LATER THAN THE FOLLOWING GROWING SEASON.

5. IT SHALL BE REQUIRED TO OBTAIN A SIGN PERMIT FOR ALL

 IT SHALL BE REQUIRED TO OBTAIN A SIGN PERMIT FOR ALL PROPOSED SIGNAGE PRIOR TO INSTALLATION.
 THE APPLICANT WILL BE REQUIRED TO PROVIDE FUNDS (\$200 PER LOT; \$9,200 TOTAL) TO THE CITY'S STREET TREE FUND TO PLANT ONE [1] STREET TREE PER LOT.

SHRUB SYMBOL LEGEND

SYNIBOL		COM. NAME	BOT. HAME	SIZE	COND.
0	15	EMERICON YEAR	Taxus s media Everlow	24" Sp.	548
0	114	WARD'S TEN	Raws x media Word's	24° Sp.	348
Θ	15	ROSE	Rosa 'Knockout'	24° Hl.	346
٥	8	FLOWINGS JAPANESE SILVER GRASS	Misconthus skerois Floringo	5 Gas.	Cont
*	:65	FOUNTAIN GRASS	Peoplestum diopecuroides	3 Goé	Cont.
(B)	364	STRAMBERRY CAMDY DAYLEY	Hemerocollis Streeterry Condy	2 Gal	Cont.
	Ħ	ANNUAL COLOR	To Be Determined	48 Call	Flat

	PR. CATCH BASIN		WARD'S YEW————————————————————————————————————	***************************************	
88	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		CC CC CCCCC		CCCCCC*
EX. SANITARY EX. UTILITY	R.O.W. PR. STORM SEWER EX. WATERNAIN EX. EASEMENT	FOUNTAIN GRASS STRAWBERRY CANDY DAYLEY	SOMERSET BOU	JLEVARD	PROPOSED SANITARY SEWER
TRY BOULEVA	RD PLANTING DETAIL				Y - NOT FOR

NEL COMPRISES ARE LANGOUNCE, RECHTRICETS COMMINITES, INSTEAD CONTROLLED TO THE VICENS CEPTORING OR LIMITING THE AMOUNT OF WORK TO BE DOING LIMITED THE CONTRINCT. THE CONTRINCT IS PRESPONDED FOR MAIN COMPRISED AND THE LANGOUNCE AMOUNT OF AMOUNT OF WORK TO BE PRODUCED TO THE LANGOUNCE AMOUNT AND AMOUNT AND AMOUNT OF AMOUNT AND AMO

PRELIMINARY

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5/25/12 AS SHOWN

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ROCHESTER HILLS, MICHIGAN

ASSOCIATES

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JAMES

SOMERSET PINES

LEGEND

& & & & & & e 5	5702-129	10-MPR SERIES	TORO FIXED SPRAY POP-UP (12")
• ଚଚଚଚଚ	570Z-12P	12-MPR SERIES	TORO FIXED SPRAY POP-UP (12")
	570Z-12P	15'-MPR SERIES	TORO FIXED SPRAY POP-UP (12")
∞ -€	674-90		TORG 1" QUICK COUPLER VALVE W/(1) KEY AND HOSE SMIVEL
\$	TPVF106		TORG 1" BLECTRIC VALVE
•	P226-28-06		TORO 1-1/2" ELECTRIC VALVE
(1)	TMC-212-OD	4 STATION	TORO MODULAR OUTDOOR CONTROLLER WIR-RS1000 WIRELESS RAIN SENSOR

PVC 160# PIPE (ALL PRESSURIZED MAINLINE PIPE

100F POLYETHYLENE PIPE (PE-3408 NSF APPROVED) (ALL PIPE DOWNSTREAM OF VALVE 1-1/2" AND SMALLER)

NOT SHOWN #18/5 MULTI-CONDUCTOR CONTROL WIRE

POINT OF CONNECTION (P.O.C.)

CONBRACO 1-1/2" PRESSURE VACUUM BREAKER (PVB) BACKFLOW PREVENTIER

(A) PROPOSED WATER METER LOCATION

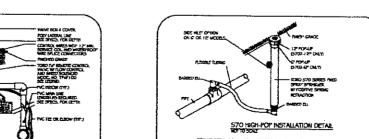
GENERAL NOTES:

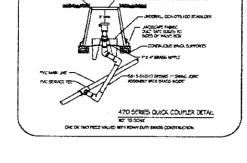
- 1. COORDINATE THIS WORK WITH ALL OTHER TRADES.
- ALL PLUMBING AND ELECTRICAL SHALL BE INSTALLED ACCORDING TO STATE AND LOCAL CODES.
- ALL SLEEVES SHALL BE 4" PVC 160# (UNLESS OTHERWISE SPECIFIED). SLEEVE INSTALLATION SHALL BE THE RESPONSIBILITY OF THE RERGATION CONTRACTOR
- IRRIGATION CONTRACTOR'S POINT OF CONNECTION SHALL BE JUST DOWNSTREAM OF BACKFLOW PREVENTER. TAP TO CITY WATER MAIN, METER AND PVB TO BE BY DEVELOPER.
- CONTROLLER AND RAIN SENSOR SHALL BE MOUNTED AT LOCATION SHOWN ON PLAN (VERIFY EXACT LOCATION WITH OWNERS REPRESENTATIVE).
- 8. IRRIGATION CONTRACTOR SHALL ADJUST THE FLOW CONTROL FEATURE ON ALL ELECTRIC VALVES PER THE MANUFACTURER'S RECOMMENDATIONS TO MAXIMIZE THE VALVES PERFORMANCE AND LONGEVITY.
- IF SITE PRESSURE IS NOT ADECUATE, A BOOSTER PUMP AND RELATED EQUIPMENT MAY BE REQUIRED AT ADDITIONAL COST TO CHINER.
- IRRIGATION PIPE AND EQUIPMENT SHOWN IN PAYED AREAS IS FOR CLARITY ONLY AND SHALL BE INSTALLED WITHIN THE TURF & LANDSCAPE AREAS.
- 11. PIPE ROUTING IS DIAGRAMMATIC. ALL EQUIPMENT AND PIPE ARE TO BE FIELD ADJUSTED TO TAKE INTO CONSIDERATION ANY OBSTRUCTIONS AND ALL LANDSCAPE.
- 12. NOTE: PATENTED PRECISION SPRAY NOZZLES USE APPROXIMATELY 30% LESS WATER THAN ANY OTHER NOZZLES. SUBSTITUTION OF ANY OTHER NOZZLES WILL REQUIRE RE-CIESIGN OF ALL SPRAY ZONES DUE TO RREATER WATER FLOW. THIS WOULD RESULT IN LARGER PIPE SZE, POSSIBLY LARGER VALVE SIZE OR QUANTITY AND LARGER CONTROLLER.

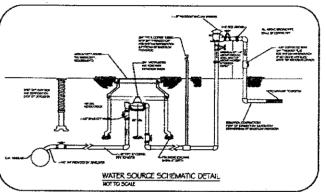
WATER REQUIREMENTS: 28 GPM & 39 PSI (BEFORE PVB

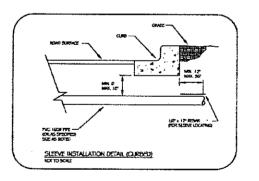
			G (
ZONE MUMBER	VALVE SIZE	GP	& ZONETYPE
1-1	1.	8	LANDSCAPE SPRAYS
1-2	1-1/2	28	LANDSCAPE SPRAYS
1-3	1*	6	LANDSCAPE SPRAYS

TPVF SERIES VALVE DETAIL







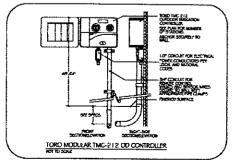


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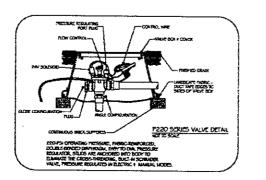


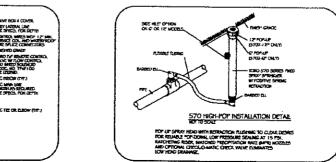






SCALE:1" = 20'0"







467 W. Derect St. Spets, M. 49345 Ptr. 616.867.7301 Fee: 616.887.6285 1050 Opeyle Read Autoin Italy, M 4832: Ptr 246,373,8800 Fac 246,373,8899 AS SHOWN t=50 tr

CITY FILE #06-012.2

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IRRIGATION PLAN
AND DETAILS
Indecape arthleds also planners
a bong lake rd, ste, 120 bloomfad hills, mt 48
(0) 248 646 6664 (0) 248 646 4838

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JAMES

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