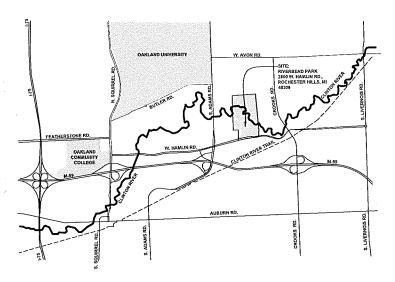
# "Innovation Hills"

## Formerly Known As "Riverbend Park Rochester Hills MI, Oakland County, Michigan





IT IS HEREBY ACKNOWLEDGED, AGREED AND UNDERSTOOD BY SPECIFIER / PURCHASER / OWNER / OPERATOR OF THIS EQUIPMENT AND / OR SYSTEM THAT ITS STATED AND INTENDED USE IS FOR DECORATIVE VIEWING PURPOSES ONLY, AND NOT FOR PUBLIC BATHING, SWIMMING, PUBLIC ENTRY OR PUBLIC RECREATIONAL USE. AS SUCH, NUNEZ DESIGN AND ROMAN FOUNTAINS CORPORATION ASSUMES NO RESPONSIBILITY OR LIABILITY WHATSOEVER FOR PERSONAL INJURY, SICKNESS, ILLNESS, DISEASE, OR OTHER ACCIDENTS WHICH MAY OCCUR AS A RESULT OF THE EQUIPMENT / SYSTEM BEING USED, OPERATED OR OTHERWISE MAINTAINED IN A MANNER INCONSISTENT WITH ITS STATED AND INTENDED PURPOSE, SPECIFIER/ PURCHASER/ OWNER/ OPERATOR IS SOLELY
RESPONSIBLE FOR DETERMINING WHETHER ANY SPECIFIC CODES, RULES, REGULATIONS OR GUIDELINES FOR FOUNTAINS APPLY TO THIS PROJECT PRIOR TO CONSTRUCTION, INSTALLATION AND OPERATION AND FOR NOTIFIYING THE PUBLIC OF THE STATED AND INTENDED USE AND OPERATION OF THIS DECORATIVE ARCHITECTURAL FOUNTAIN AND FOR LAWFUL ENFORCEMENT THEREOF, INCLUDING POSTING ANY AND ALL SIGNS, NOTICES, WARNINGS, INSTRUCTIONS AND BARRIERS AND PROVIDING PERSONNEL AS NECESSARY TO ENFORCE COMPLIANCE WITH ITS INTENDED USE.

**PROJECT INDEX & SUBMITTALS** 

		PI	AI	1 5	UE	3M	ITI	AL	S
٠.		PARKING LOT BID	PARKING LOT DESIGN REVIEW	PARKING LOT DESIGN REVISION	DESIGN REVIEW	FINAL SUBMITTAL REVIEW	FINAL SUBMITTAL		
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SP - 1.3	Utilities	Х	Χ	Χ	Χ	X	Χ		
SP - 2.0 SP - 2.1	Parking Lot Demo Plan	X	X	X	X	X	X	Ш	_
SP -2.1	Parking Lot Layout Parking Lot Grading	₩	Ϋ́	Ϋ́	Ϋ́	<del> </del> X	X	Н	_
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SITE / POND		✝	Н	Н	H	H	H		
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LA - 1.2 LA - 1.3	Pond Edge Detail  Earth Mound Details	+	H	L	Ϋ́	Ϋ́	ΙX	Н	_
LA - 1.4	Water Wall Details	╁	Н	H	₩	₩	♦	Н	_
LA - 1.5	Pond Edge Details	+	Н	Н	忟	Ŕ	☆	H	_
LA - 1.6	Bioswale Spillway	T	П	Г	r	X	X	П	Τ
IA-17	Pond Overlook Plan & Details					X	Х		
LA - 1.8 LA - 1.9 LA - 2.0 LA - 2.1	Weir Plan & Details	↓_	Ц	L	X X X	X	X	Ш	_
LA 20	Upper Pond Edge Treatments & Layout	┿	H	L	X	ΙX.	Ϋ́	Н	_
IA - 2.1	Hardscape Layout Plan & Overview Hardscape Layout	+	Н	H	÷	₩	÷	Н	_
LA - 2.2	Hardscape Details	+-	Н	-	₾	☆	Ŕ	Н	_
LA - 2.3	Durolawn	+	Н	r	X	Ŕ	Ϋ́	Н	_
LA - 2.4	Durolawn				X	X	X		Ξ
LA - 3.0	Amenity Plan					X	X		
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WFN-1	General Installation Notes	+	Н	Н	$\vdash$	Ŷ	Ķ	Н	
WFN-2	Fountain Equipment List & Performance Criteria	+	Н	Н	Н	Ş	Ų.	Н	_
WFD - 1 WFM - 1	Fountain Equipment Details Sheet Fountain Mechanical Riser Diagram	+	H	Н	Н	XXXXXXXXXX	X X X X X X X X	H	-
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WFM-3	Site Dimensions & Electrical Plan	$\perp$				Χ	Χ	Ц	_
WFM - 4	Fountain Direct Burial Pump Vault Details #1	$\perp$	Н	Н		χ	X	Н	
WFM - 5	Fountain Direct Burial Pump Vault Details #2	+	Н	Н	Н	Ž.	Ň	Н	
WFI - 1 WFI - 2	Typical Electrical Details & Article 680 NEC Requirements Typical Piping & Penetration Details	+	H		Н	Ŷ	ŷ		
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E - 1.1	Pond Outlet Control Structures Details	+	Н	Н	H	Ϋ́	Ϋ́	$\dashv$	
E - 1.2	General Construction Notes	-	Н	Н	-	Δ.	4	+	_
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LA - 4.0	Pond Landscaping Plan		Ճ				X		_
LA - 4.1	Landscape Seeding Plan		Д				X	耳	_
IA-42	Landscape Seed Mixes	$\perp$	Ц	Н	Ц	Ц	X	4	
IA-43	Overall Landscape Key Plan	+	Н	-		Н	Ş.		_
IA-44	Bioswale Planting Plan - Area A	+	Н	Н	Н	Н	쉬	$\dashv$	-
1A-45 1A-46	Rioswale Details Landscape Details - Area B	+	Н	Н	Н	Н	Ŷ	$\dashv$	-
1A-4B	Temple Shelfer Landscape Details - Area C	П	╛				X X X X X X	_†	_
1A-48	Landscaping Planting Details & Specifications		╛			╛	X	╛	
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PROJECT TEAM

**CLIENT / APPLICANT** KEN ELWERT, CPRP

NUNEZDESIGN, INC.

TROY, MICHIGAN 48083 PHONE: (248) 224-5933

ROCHESTER HILLS, MI 48309

RALPH L. NUNEZ, RLA, CLARB, ASLA, GRP 249 PARK STREET

(DIRECTOR OF PARKS & FORESTRY) THE CITY OF ROCHESTER HILLS 1000 ROCHESTER HILLS DR.

PROJECT LANDSCAPE ARCHITECT / PLANNER



CLIENT: City of Rochester Hills

Ken Elwert 1000 Rochester Hills Dr. Rochester Hills, MI

Phone: 248-841-2552

4-21-17 FINAL SUBMITTAL REVIEW 9-21-16 DESIGN REVIEW 8-11-16 PARKING LOT REVISION



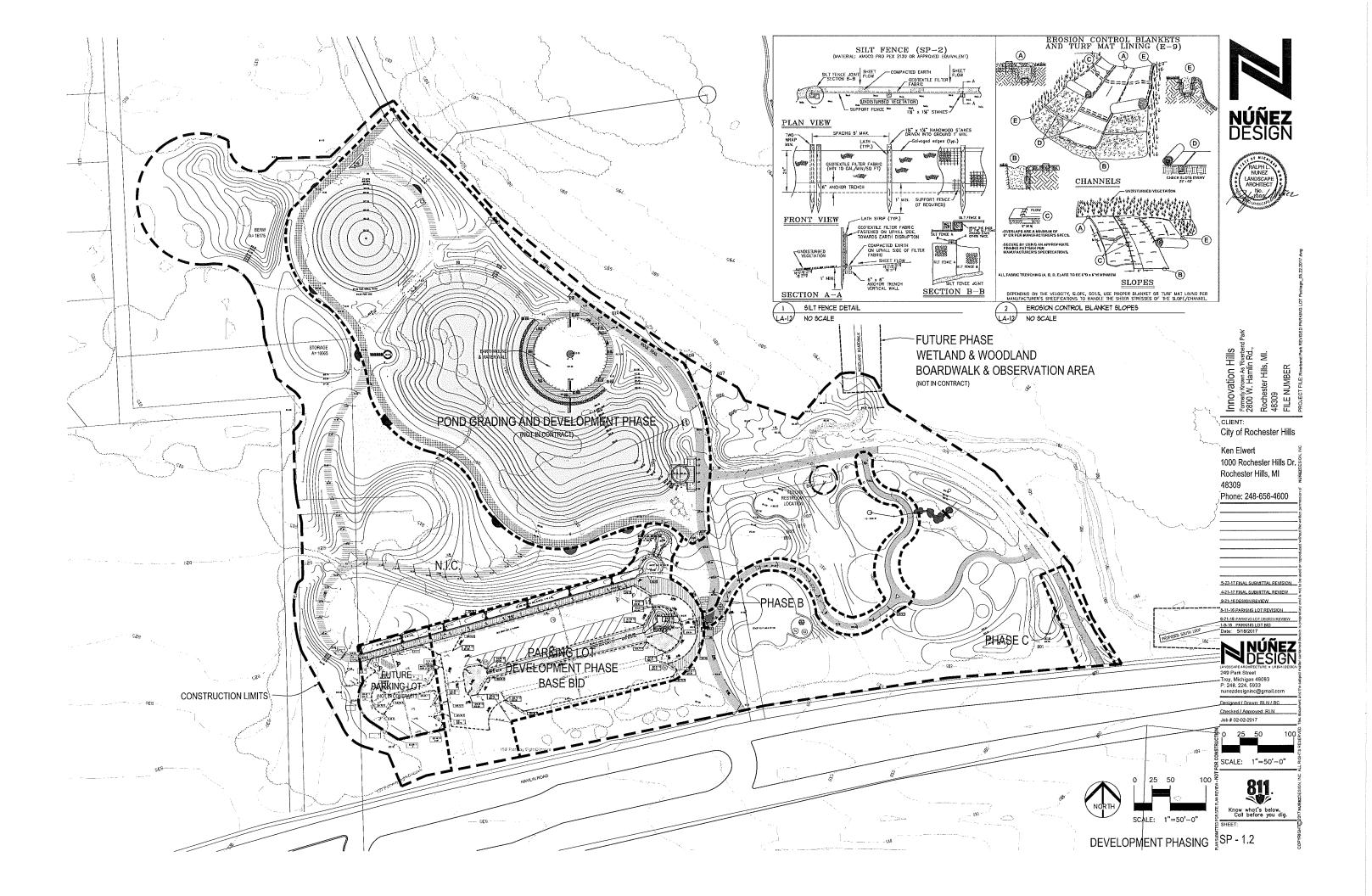
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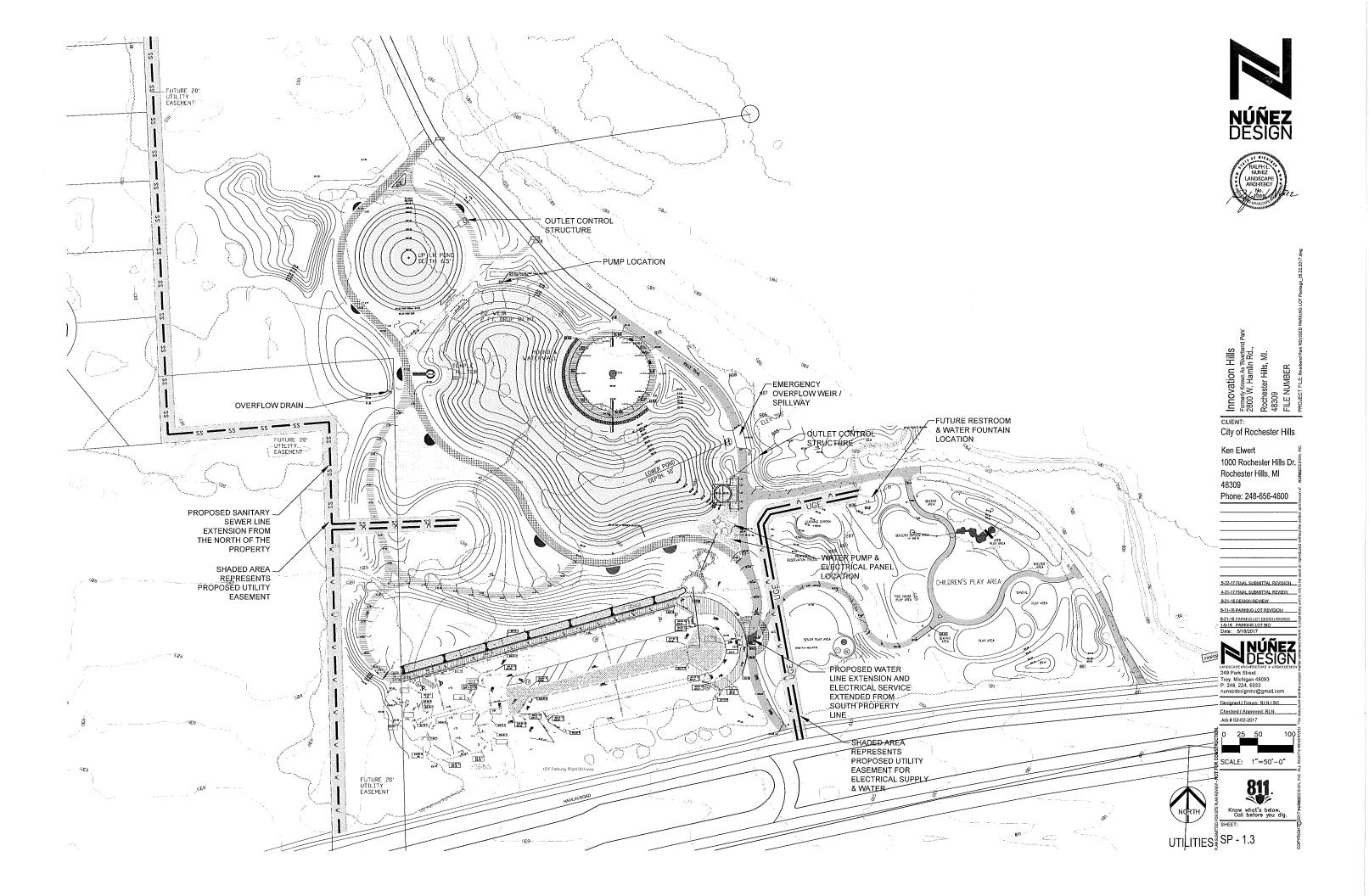


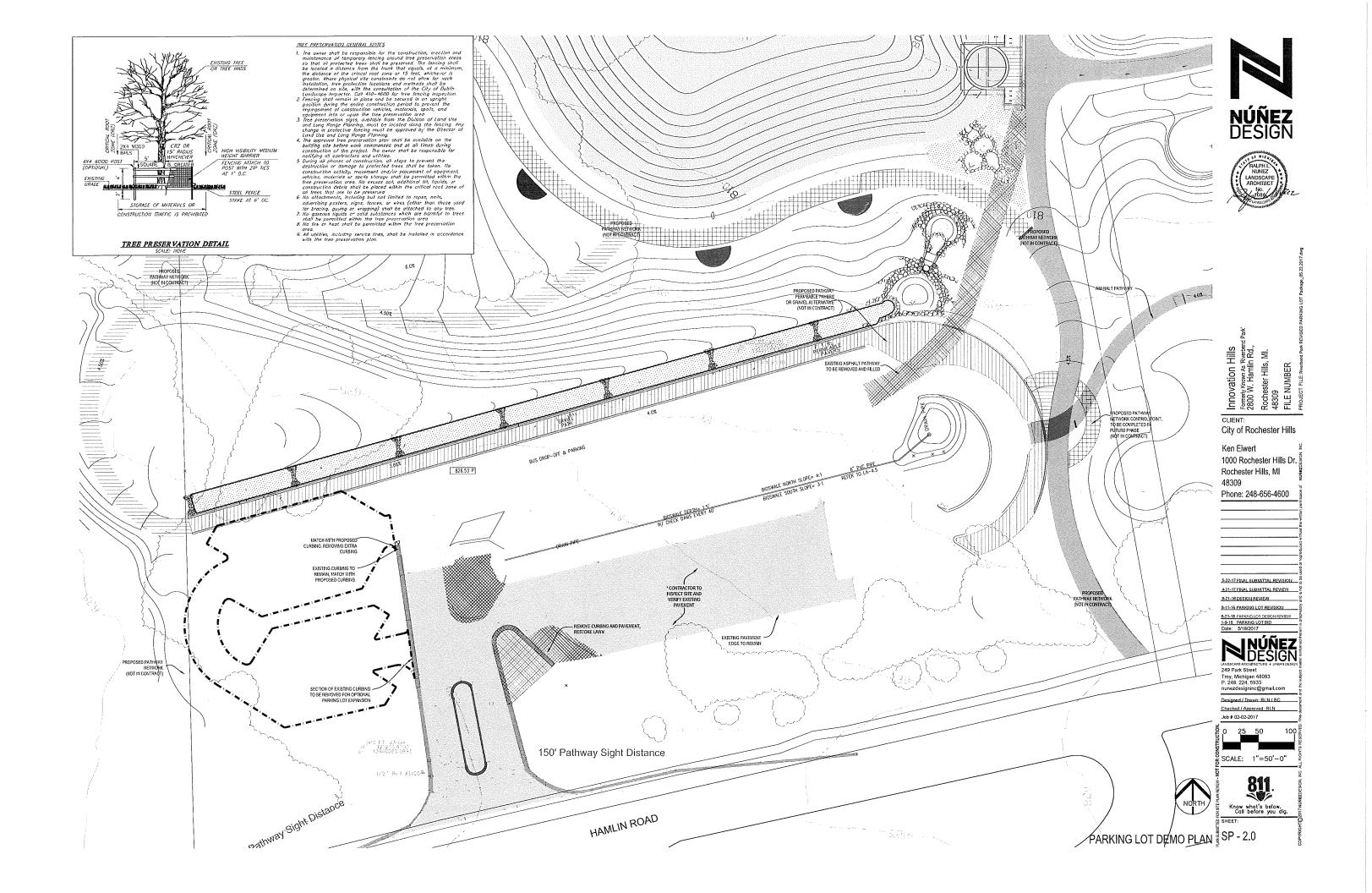


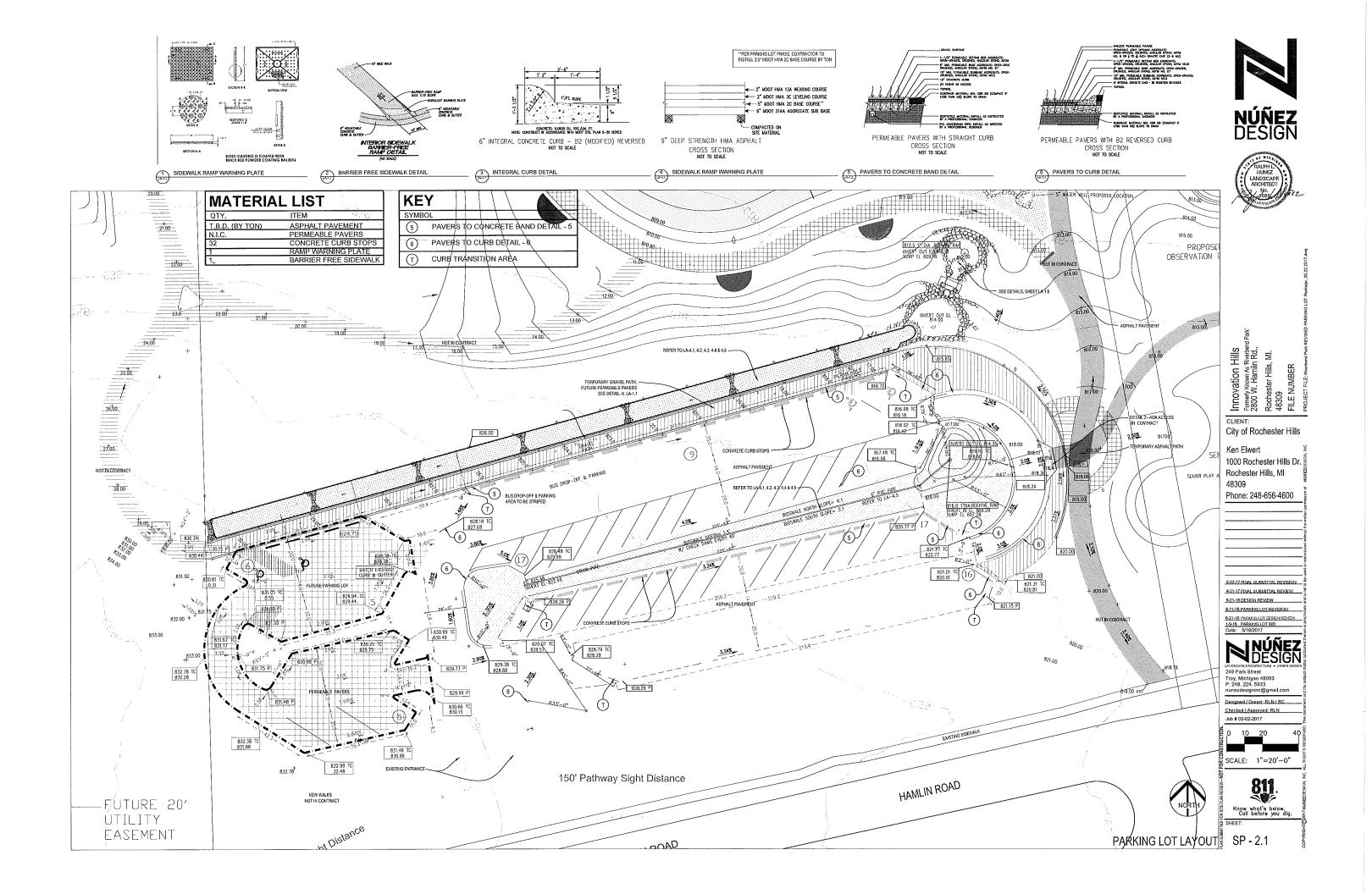
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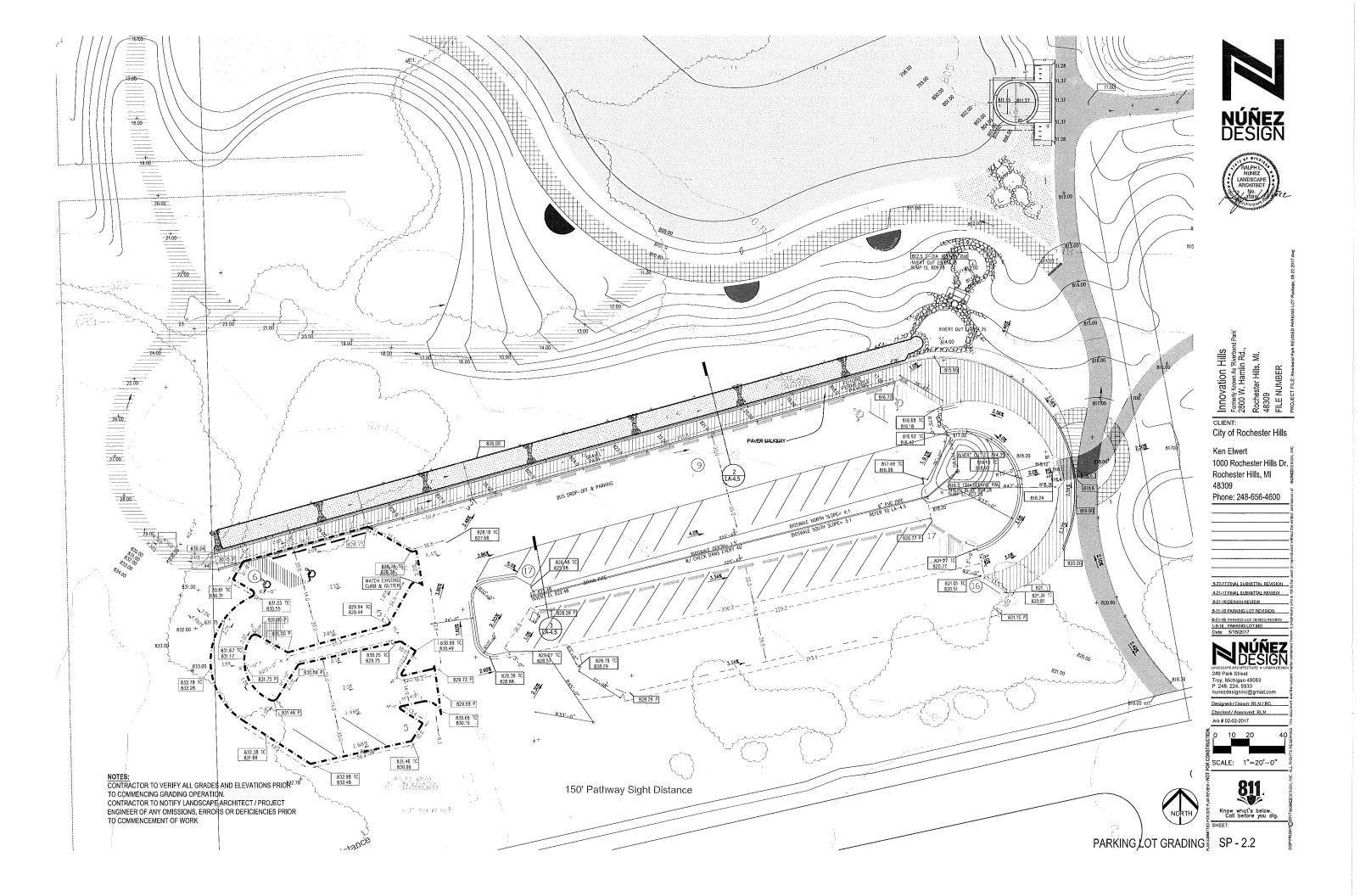


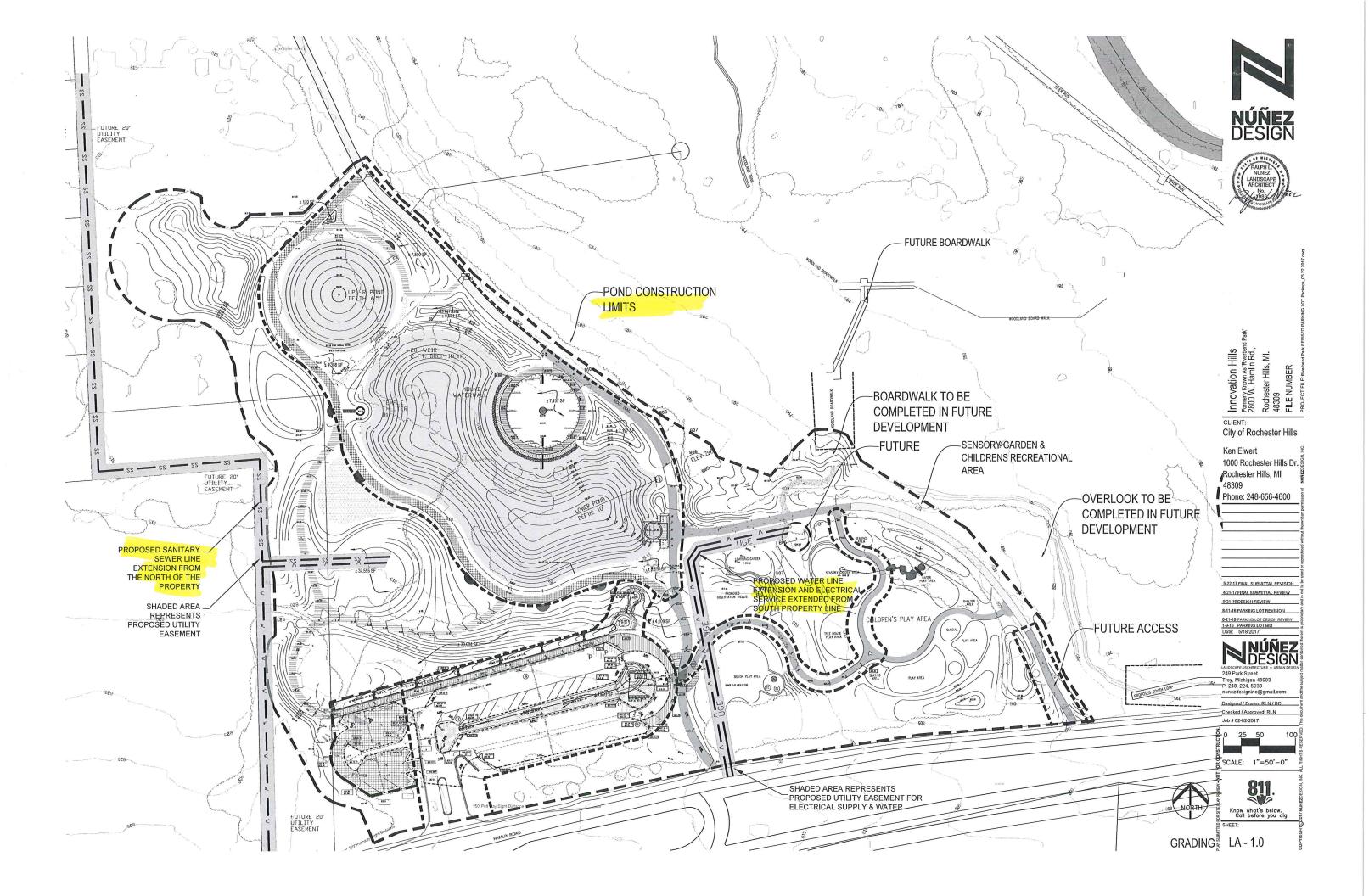


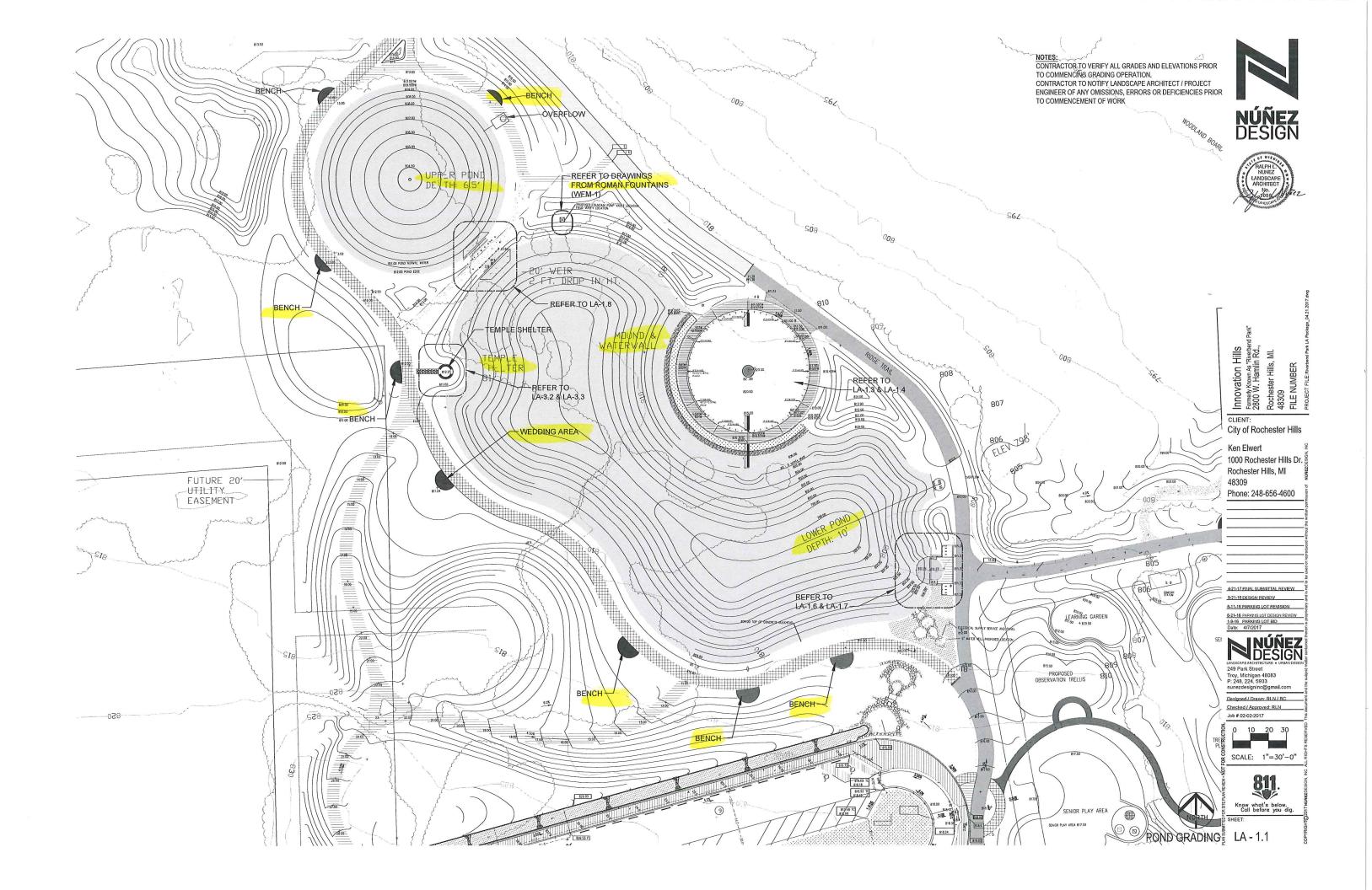




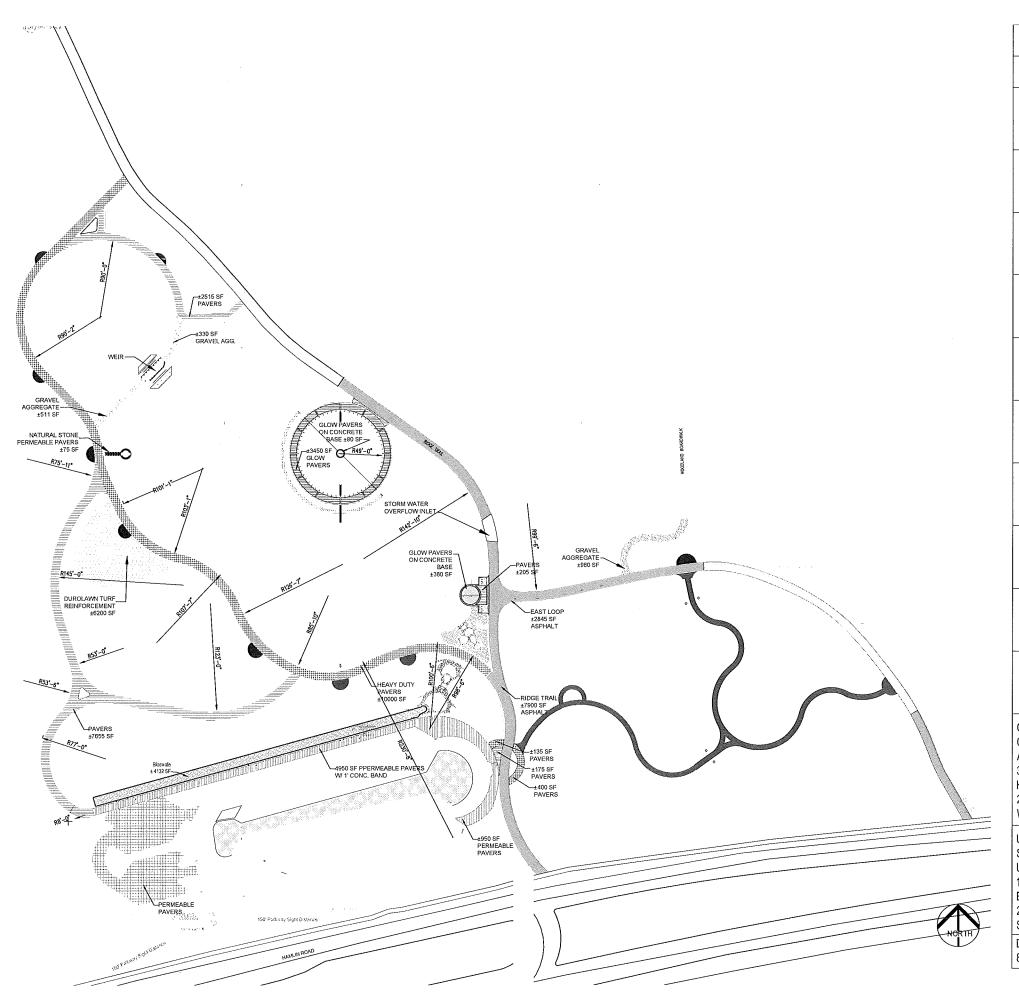


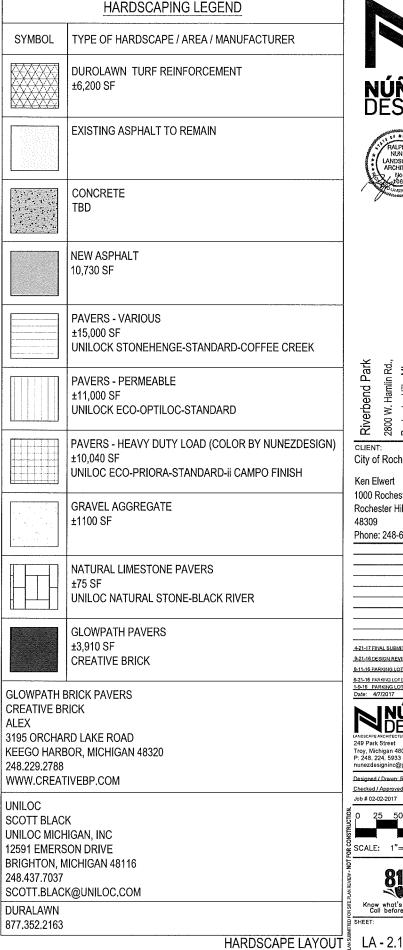
















City of Rochester Hills

Ken Elwert 1000 Rochester Hills Dr. Rochester Hills, MI 48309 Phone: 248-656-4600

4-21-17 FINAL SUBMITTAL REVIEW 9-21-16 DESIGN REVIEW

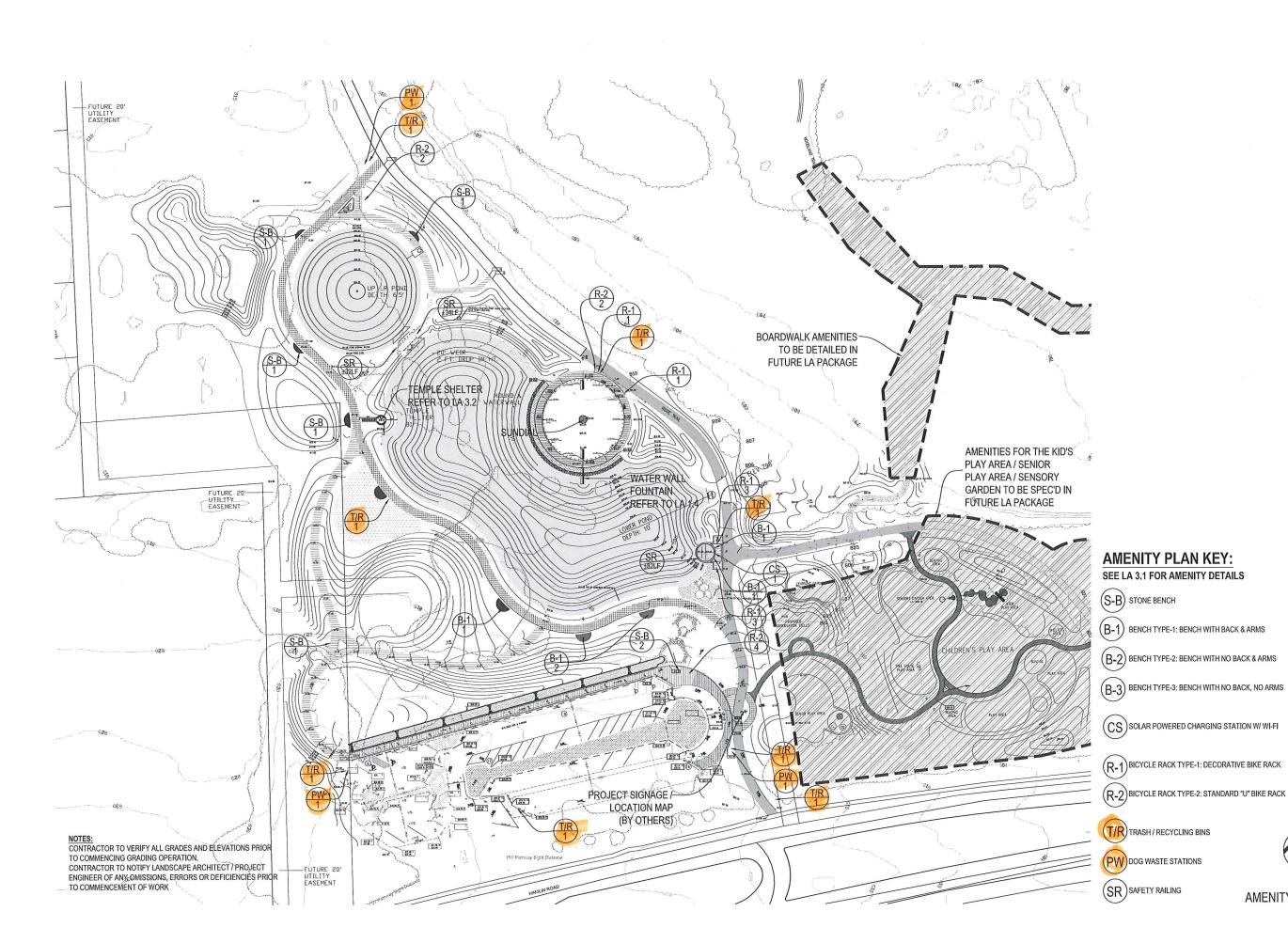
8-11-16 PARKING LOT REVISION 6-21-16 PARKING LOT DESIGN REVIEW

249 Park Street Troy, Michigan 48083 P: 248, 224, 5933 Designed / Drawn: RLN / BC

Checked / Approved; RLN



Know what's below. Call before you dig.







CLIENT: City of Rochester Hills

Ken Elwert 1000 Rochester Hills Dr. Rochester Hills, MI 48309 Phone: 248-656-4600

4-21-17 FINAL SUBMITTAL REVIEW 9-21-16 DESIGN REVIEW

8-11-16 PARKING LOT REVISION 6-21-16 PARKING LOT DESIGN REVIEW
1-9-16 PARKING LOT BID
Date: 4/17/2017

249 Park Street

Troy, Michigan 48083 P: 248, 224, 5933 nunezdesigninc@gmail.com Designed / Drawn: RLN / BC

Checked / Approved: RLN Job # 02-02-2017

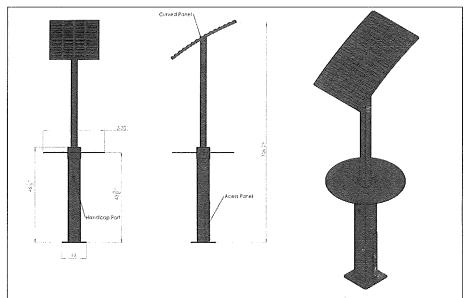
25 50

SCALE: 1"=50'-0"

Know what's below. Call before you dig.

LA - 3.0

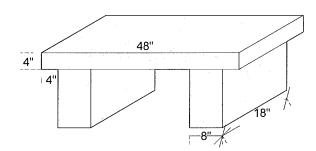
AMENITY PLAN



WWW.SUNCHARGESYSTEMS.COM donny@sunchargesystems.com

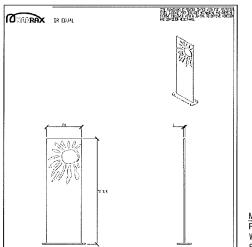
**CHARGING STATION** NOT TO SCALE

SUNCHARGE SYSTEMS CHARGING STATION PRODUCT: SOLAR CHARGING POLE W/ WIFI



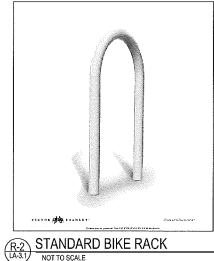
LIMESTONE BENCH BY MICHIGAN LIMESTONE TOP: 4"x18"x48" LEGS: (2) 8"x14"x48" WWW.ABELLASTONE.COM ABELLA4@ATT.NET

SB STONE-SLAB BENCH NOT TO SCALE



MAD RAX BICYLE RACK PRODUCT: SMF-5 WWW.MADRAX.COM SALES@MADRAX,COM

R-1 DECORATIVE BIKE RACK
NOT TO SCALE



NOT TO SCALE



T/R WASTE RECEPTACLE
NOT TO SCALE

http://www.victorstanley.com/product/brvs-101/

## **PROPOSED AMENITIES**

QTY.	SIZE	ITEM
1	POLE W/ WIFI	SUNCHARGE CHARGING STATION
6	LIL-20CA	"LILY BENCH W/ CURVED ARMS (4')
7	48"x18"x12"	LIMESTONE BENCH
8	DYN-236	DYNASTY LITTER / RECYCLING RECEPTICAL
3	DEPOT-006-B	DOG WASTE DEPOT PET WASTE STATION
1	MT-32	KEYSTONE RIDGE- MIDTOWN 32 GALLON TRASH RECEPTACLE
8	SMF-5	MAD RAX DECORATIVE BIKE RACK
8	BRWS-101	CYCLE SENTRY BIKE RACK
±148 LF	42" Ht,	VIVA "CIRCA" RAILING W/ PICKET INFILL

"LILY" BACKLESS BENCH, NO ARMS MFG. BY VICTOR STANLEY "LILY" BACKLESS BENCH W/ CURVED ARMS MFG. BY VICTOR STANLEY PRODUCT: LIL23-CA PRODUCT: LIL23-CA GREEN FRAME WITH WOOD SLAT SEATING GREEN FRAME WITH WOOD SLAT SEATING 4' LENGTH http://www.victorstanley.com/product/lily-point/ http://www.victorstanley.com/product/lily-point/ VICTOR A STANLEY

(B-1) "LILY' BENCH W/ CURVED ARMS & BACK NOT TO SCALE

4' LENGTH

"LILY" BENCH W/ CURVED ARMS & BACK

GREEN FRAME WITH WOOD SLAT SEATING

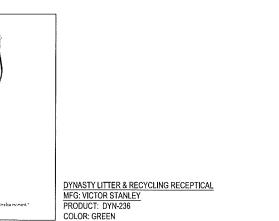
http://www.victorstanley.com/product/lily-point/

MFG, BY VICTOR STANLEY

PRODUCT: LIL20-CA

ALL AMENITIES MUST BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.

(B-2) "LILY' BACKLESS BENCH W/ CURVED ARMS (B-3) "LILY' BACKLESS BENCH, NO ARMS (LA-3.1) "LILY' BACKLESS (LA-3.1) "L



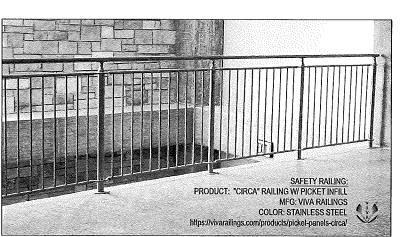
http://www.victorstanley.com/product/dyn-236

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THE STATE OF

DOG WASTE STATION PRODUCT: DEPOT-006-B WWW.DOGWASTEDEPOT.COM SALES@DOGWASTEDEPOT.COM

PET WASTE RECEPTACLE
NOT TO SCALE



RAILING: "CIRCA" STAINLESS STEEL RAILING W/ PICKET INFILL
NOT TO SCALE



2800 W. Hamlin Rd., Rochester Hills, MI. 48309 FILE NUMBER

CLIENT: City of Rochester Hills

Ken Elwert 1000 Rochester Hills Dr. Rochester Hills, MI Phone: 248-656-4600

8-11-16 PARKING LOT REVISION

249 Park Street
Troy, Michigan 48083
P: 248, 224, 5933

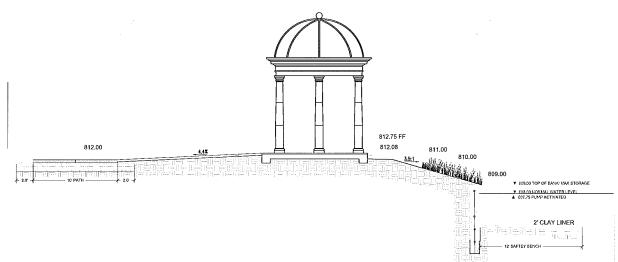
Designed / Drawn: RLN / BC Checked / Approved: RLN Job # 02-02-2017





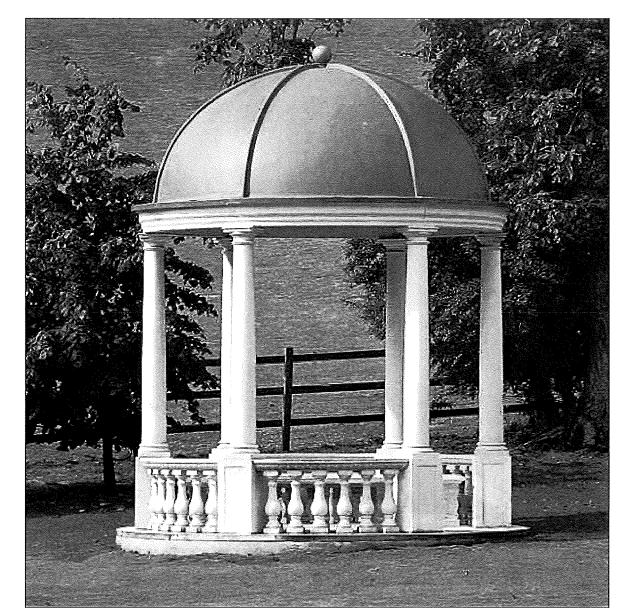
LA - 3,1

PARK AMENITY DETAILS



1 TEMPLE SHELTER: EAST - WEST SECTION





TEMPLE SHELTER - MFG. IMAGE
NOT TO SCALE

\*SEE LA 4.8 FOR TEMPLE SHELTER AREA LANDSCAPING DETAILS





CLIENT: City of Rochester Hills

Ken Elwert 1000 Rochester Hills Dr. Rochester Hills, MI 48309 Phone: 248-656-4600

4-21-17 FINAL SUBMITTAL REVIEW 9-21-16 DESIGN REVIEW

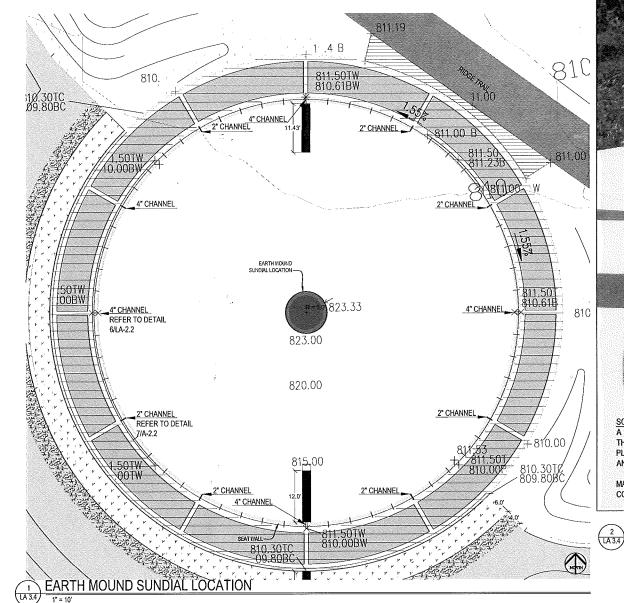
8-11-16 PARKING LOT REVISION 8-21-16 PARKING LOT DESIGN REVIEW
1-9-16 PARKING LOT BID
Date: 4/17/2017

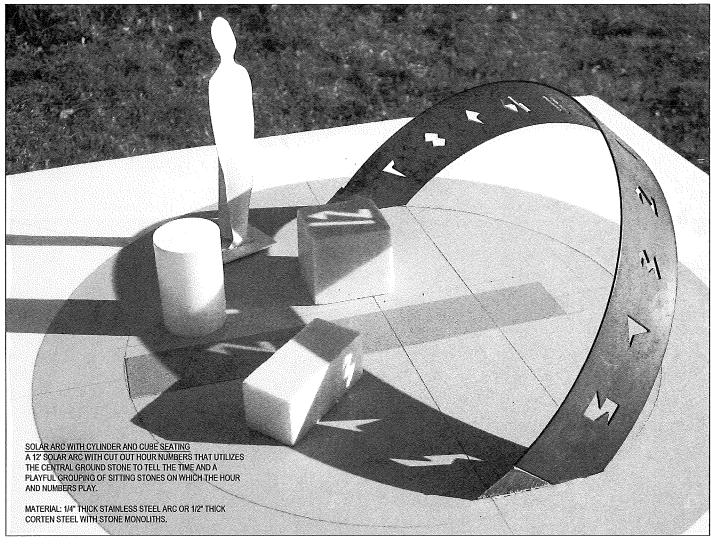
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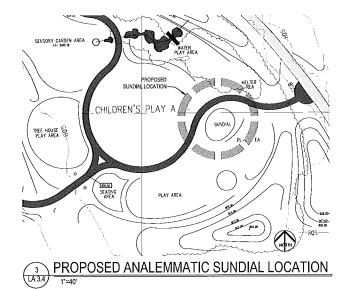
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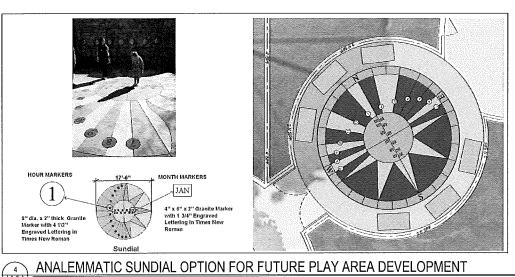




"SOLAR ARC WITH CYLINDER AND CUBE SEATING" SUNDIAL

CITY MUST SECURE CONTACT WITH ARTIST FOR COMPLETED DESIGN OF FINISHED SUNDIAL, WORKING DRAWINGS, FABRICATION, PROJECT MANAGEMENT AND SHIPPING OF SUNDIAL. THE SUNDIAL WILL BE INSTALLED BY THE CONTRACTOR UNDER THE SUPERVISION OF THE ARTIST, CONTRACTOR RESPONSIBLE FOR TAKING DELIVERY, SITE PREPARATION AND INSTALLATION PER ARTIST INSTRUCTIONS ON ORIENTATION.





"BLOOMINGDALE" SUNDIAL AN ANALEMMATIC DIAL CAST IN COLORED CONCRETE WITH GRANITE HOUR STONES AND MONTH MARKERS WHERE THE CHILD OR PERSON WOULD STAND TO TELL THE TIME.

MATERIAL: COLORED CONCRETE WITH GRANITE MARKERS.

**CONCEPTS SUPPLIED BY ARTIST:** 



ROBERT ADZEMA 67A LUDLOW LANE PALISADES, NY 10964



2800 W. Hamlin Rd., Rochester Hills, MI. 48309 FILE NUMBER Innovation Hills

CLIENT: City of Rochester Hills

Ken Elwert 1000 Rochester Hills Dr. Rochester Hills, MI 48309 Phone: 248-656-4600

4-21-17 FINAL SUBMITTAL REVIEW 9-21-16 DESIGN REVIEW

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Troy, Michigan 48083 P: 248, 224, 5933 nunezdesigninc@gmail.com Designed / Drawn: RLN / BC

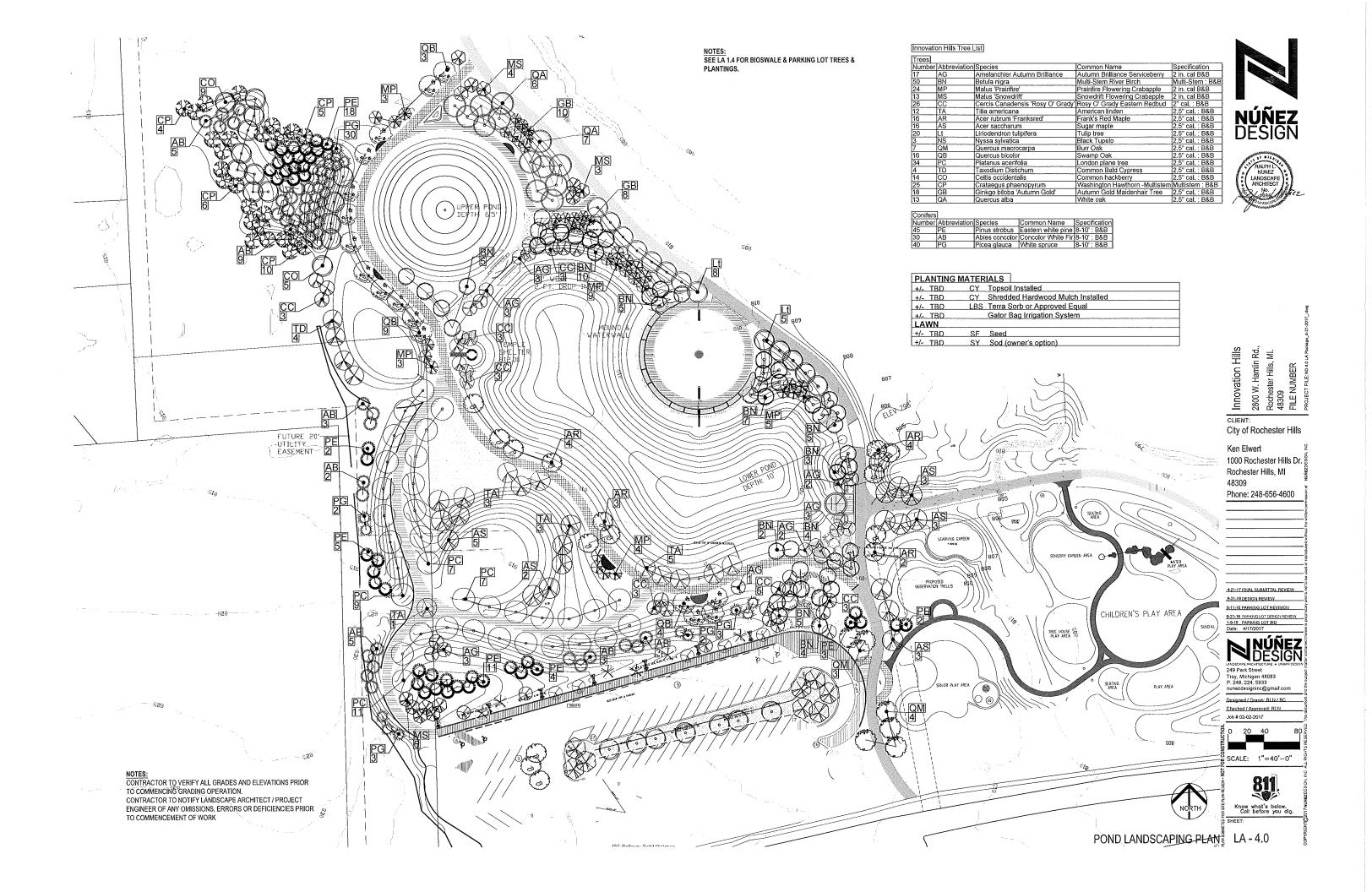
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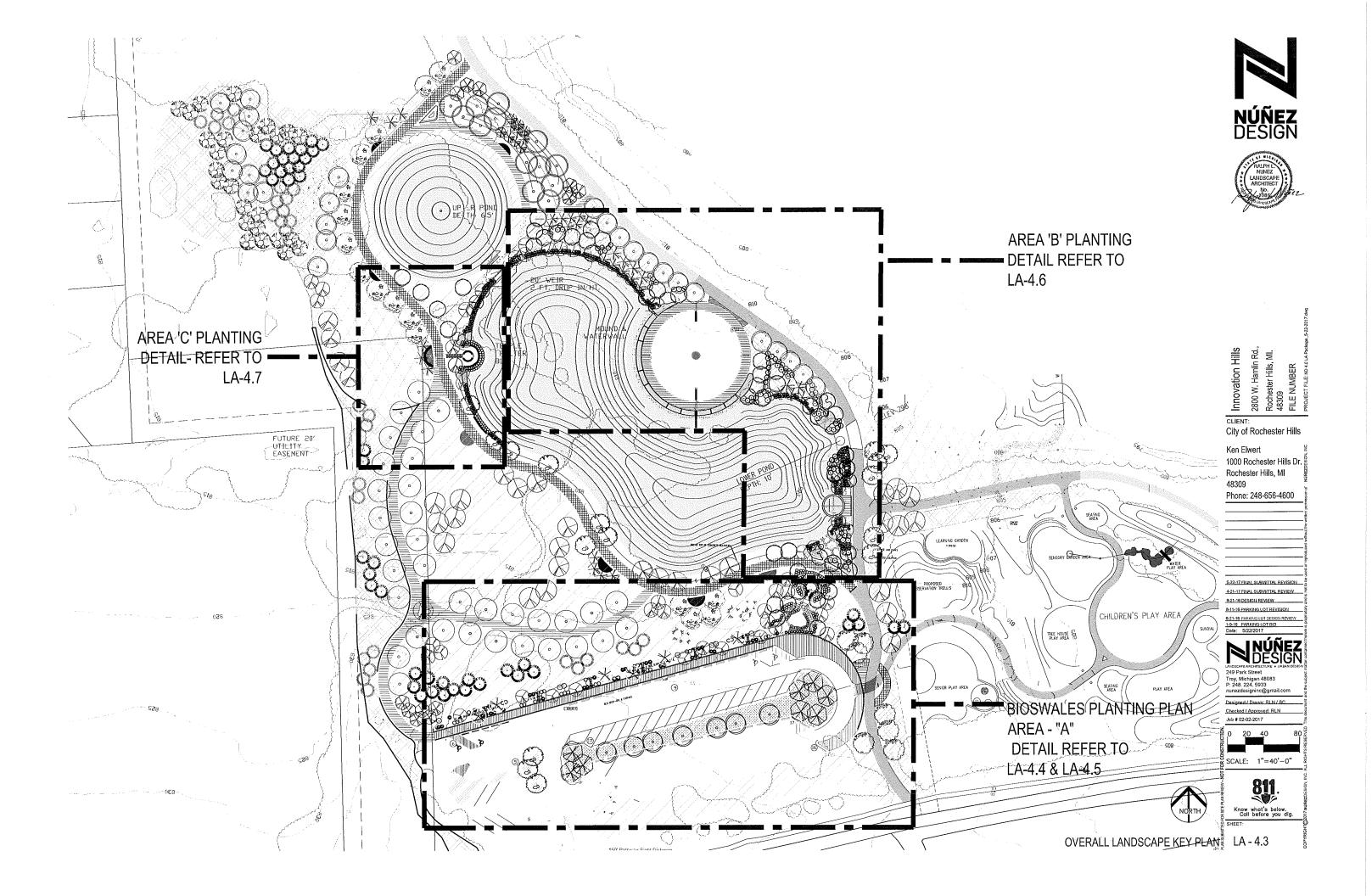


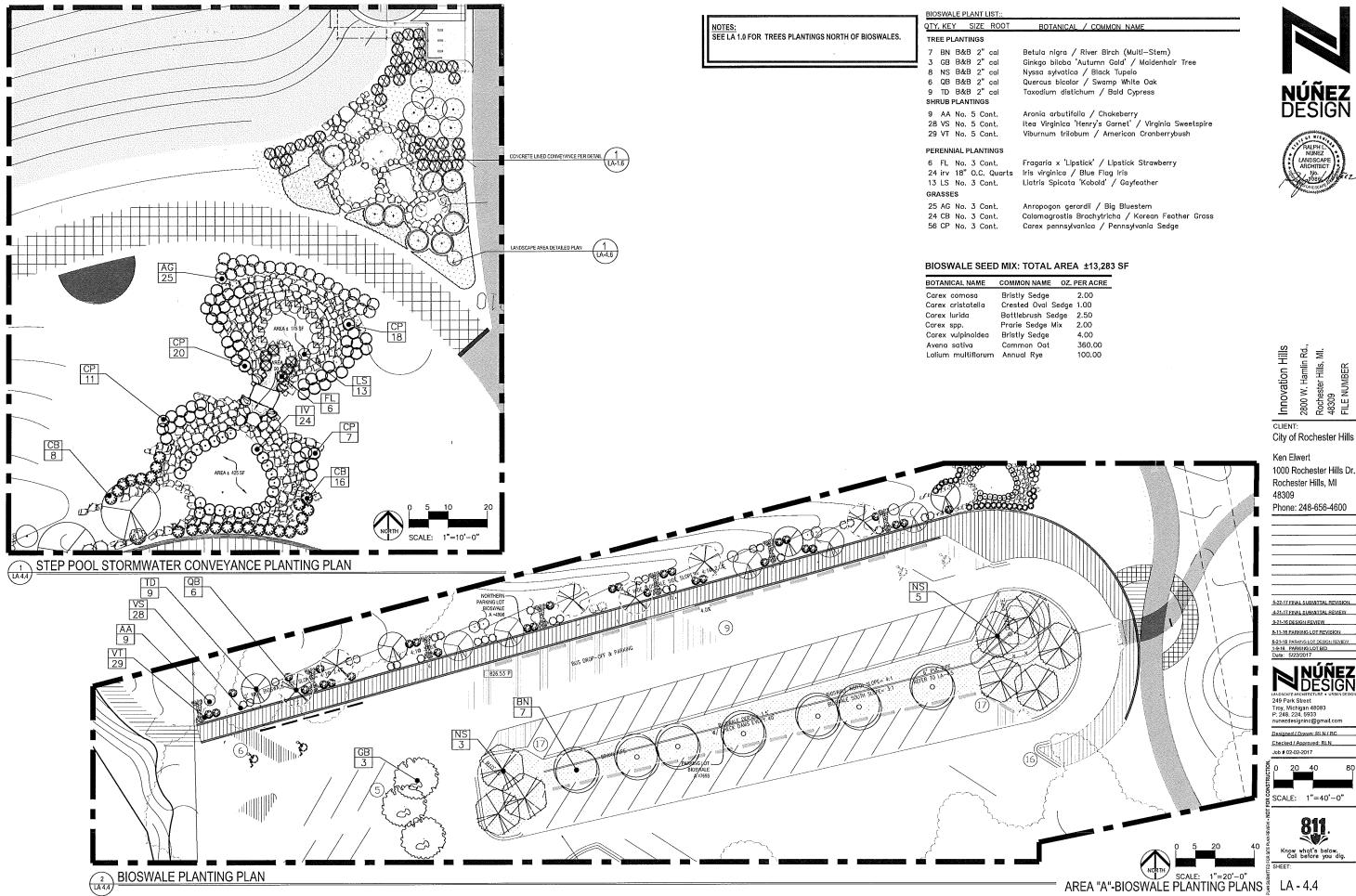


PROPOSED SUNDIALS LA - 3.4



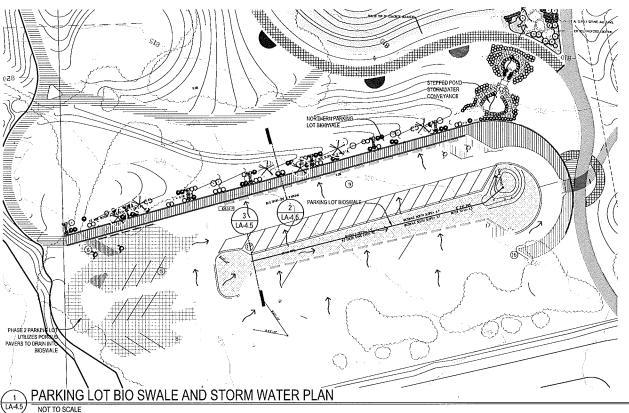


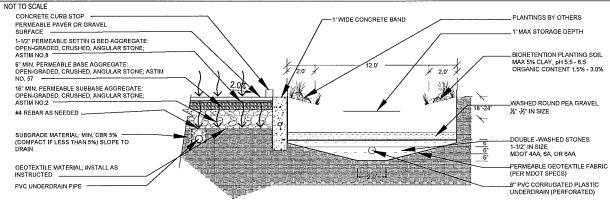












## PARKING LOT BIO SWALE SECTION

## NOTES:

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THE FACILITY.
SLOPED AREAS EXCEEDING 25% SHOULD NOT BE USED FOR BIORETENTION UNLESS "WEEP GARDEN" DESIGNS ARE EXPLICITED.
BIORETENTION AFFECS SHOULD HOT BE BUILT WHEFE MOODED AFFECS WOULD REED TO BUILT EXCELLED TO MAKE BROWN FOR THE FACILI
HARRANGE LOT A PROLICATIONS, MOMERT BLOCKS OF GAMPED CLEARING SHOULD BE USED TO PREVENT ENTITY OF YER DELICATIONS.

FIGUREAU. LINDERDRAIN HAS THE EFFECT OF PROVIDING A STORAGE AREA BELOW THE INVERT OF THE UNDERDRAIN DISCHARGE PIPE. THE AREA IS BOULL TO THE YORD SPACE OF THE HATERIAL USED.

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RANTS

- SEAST PLANT MATERIALS THAT CANTICLERATE EXTROLE HIDROCOGIC CHAUSES, POLILITAIT LOCAND, AND HIGHLY VARIABLE SOL HYTURE
CONDITIONS, USE OF HAITER PLANTS IS HIGHLY RECOVEREDED FOR FIREFEITHTHAN FEB.S.

- THE HYMANUR RECOVERANCED CALLER SEE (OR TREES IN AND THORING HAS ADELTIFICATION FEB.S.)

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- HE HYMANUR RECOVERANCED CALLER SEE (OR TREES IN AND THORING HAS ADELTIFICATION FEB.S.)

- HONOR OF THE HYMAN FEB.S. OR MASSERES CERTIFIED BY THE MONGAN MATTLE PLANT PRODUCES ASSOCIATION,

EIGRETINION ARSA MATERIAL SPECTRICATIONS
PARTITIS 285.

PARTITIS 2

SAND SHOULD BE CLEAN AND FREE OF DELETERIOUS MATERIALS. FOR PLANTING SCIL, MOOT CLASS II CLEAN SAND (

GEOTEXTILE FASRIC GEOTEXTILE FASRIC SHOULD IMAINTAIN A FLOW RATE OF 125 GPM PER SOLARE FOOT, INDOT SPECIFICATIONS ARE

UNDERDRANG GRAVEL BLANKET.
THE GRAVEL BLANKET SHOULD BE DOUBLE WASHED, 1-1/2 INCHES IN SIZE, MOOT 44A, BA OR 64A PORUS MATERIAL IS.

PEAGRAVEL FEAGRAVEL SHOULD BE WASHED, RIVER-RUN ROUND DAMETER, X ⊀ INCHES IN SUZE.

<u>INDERDRAIN FRING.</u> A VARRETT OF NATERIALS CAN BE USED FOR INDERDRAIN FIRMS, INCLUDING HEAVY DUTY PVC FIFE AND CORRUGATED NETAL RIFE, OTHER RIPE MATERIALS MAY BE USED.

SUM SHADE COLUMNOS BEFORE FLANNING AND PLANTING.

BOGETERINOVARIAD CONSTRUCTION

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BRORE TERRICAL ADARD CEGOUS INTRODARDS.

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### BIORETENTION PLANTING SOIL MAX 5% CLAY, pH 5.5 - 6.5 ORGANIC CONTENT — 1.5% - 3.0% 2.0% WASHED ROUND PEA GRAVEL¾" -½" IN DOUBLE -WASHED STONES 1-1/2" IN 2.0% SIZE MDOT 4AA, 6A, OR 6AA 18"-24" 6" PVC CORRUGATED PLASTIC. PERMEABLE GEOTEXTILE FABRIC

828.28 PVMT EDGE

3 BIO SWALE - NORTH OF PARKING LOT SECTION

CONCRETE CURB STOP

NOT TO SCALE

STRATES THAT THE IPEN TRAINED ARE SO YEAR. WHAT THE BROKETELITION AREA IS SUFFICIENT TO PREVENT EXCESS A UNDESCRIVEN BUSINESS THE PRODUCTION AND ADMINISTRATION THE IPEN TRAINED AND THE FEBRUARY AND THE WAS A WIGHT OF THE PROPERTY OF THE

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STORAGE VOLUME WITHIN THE EIGNETIFITION AREA

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AND THE WATER SHANDAL MAN THE MACHIA FER SHOULD BE REMOVED AND REPLACED EVERY 7 THAN THE BASE OF THE THE MACHIA FER SHOULD BE REPORTED BY MACHIA MACHIA FOR THE BASE OF THE THE MACHIA FER SHOULD BE REPORTED BY MACHIA MACHIA FER SHOULD BE REPORTED BY MACHIA MACHI

EVENTUALLY BECOMMS OVERGROWED. IT THIS OCCURS, PEREINAL PLANTS SHOULD BE DIVIDED IN SPRING OR FALL BY DESON BOSHE DIFFICIAL PRACTICES ARE LOCATED IN ARRES WHERE INTRIBUTS ARE SOCIETAMITY ELEVATED ABOVE WILL BE THE LUTION FACTOR IN FRAM GROWN HE SO THE STRIPLY IS INDOORS. A SWIPE TEST CAN RESOLVE THE QUESTION IF FERTILIZATION SHOULD BE COMEINCESSARY, AN ORGANIS FERTILIZED WILL PROVIDE INTRIBUTS AS NEED.

- 6"-8" MAX STORAGE DEPTH

826.48 TOP OF CURB

NFACTUTIES MAY CARRY TRASH AND DEBRIS WITH IT, FARTICULARLY IN CONVERCIAL D BE REMOVED REGULARLY BOTH TO ENSURE THAT INLETS DO NOT BECOME BLOCKET

2800 W. Hamlin Rd., Rochester Hills, MI. Innovation Hills

CLIENT City of Rochester Hills

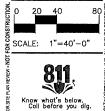
Ken Elwert 1000 Rochester Hills Dr. Rochester Hills, MI 48309 Phone: 248-656-4600

5-22-17 FINAL SUBMITTAL REVIEW 4-21-17 FINAL SUBMITTAL REVIEW 9-21-16 DESIGN REVIEW

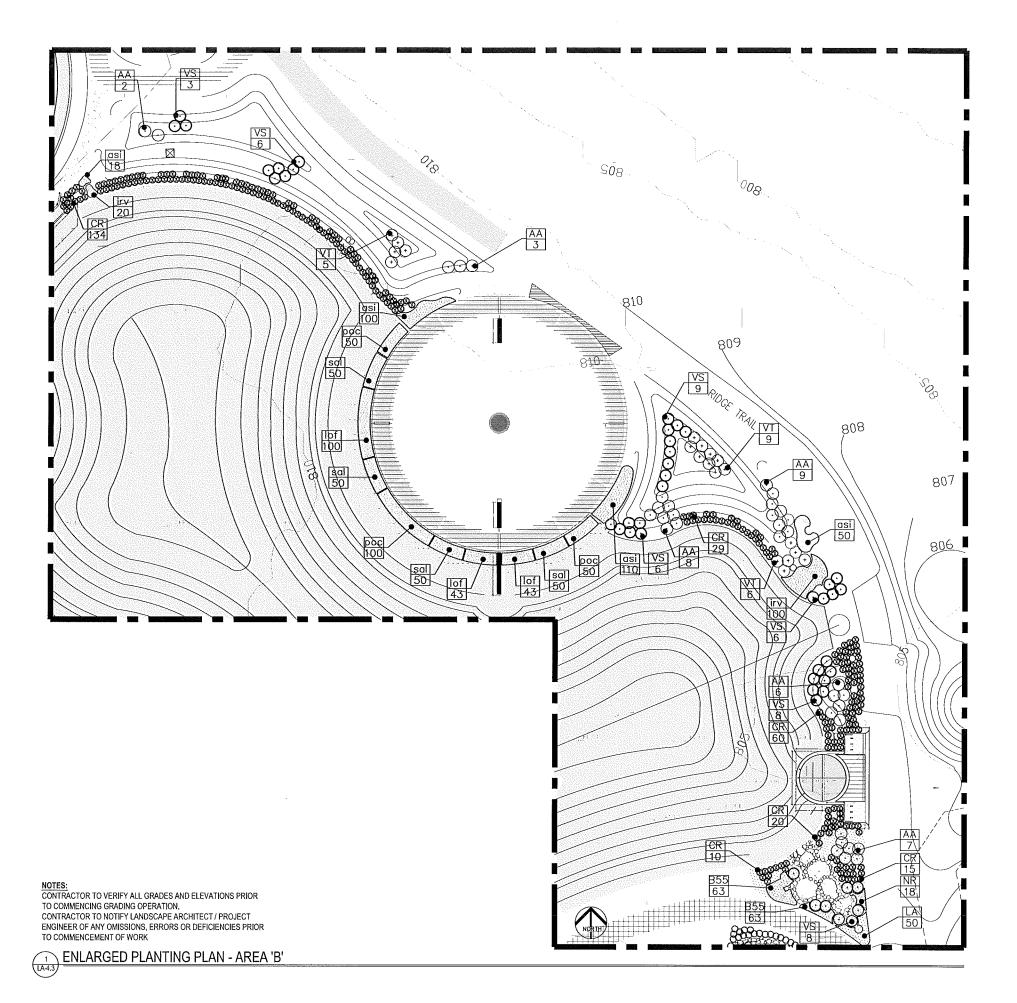
8-11-16 PARKING LOT REVISION 6-21-16 PARKING LOT DESIGN REVIEW

249 Park Street Troy, Michigan 48083 P: 248, 224, 5933 nunezdesigninc@gmail.com Designed / Drawn: RLN / BC.

Checked / Approved; RLN Job # 02-02-2017



BIOSWALE DETAILS LA - 4.5



BIOSWALE PLANT LIST::

QTY. KEY SIZE ROOT BOTANICAL / COMMON NAME SHRUB PLANTINGS 35 AA No. 3 Cont. Aronia arbutifolia / Chokeberry 259CR No. 3 Cont. Cotoneaster dammeri 'Royal Beauty'/Royal Beauty Cotoneaster 46 VS No. 3 Cont. Itea Virginica 'Henry's Garnet' / Virginia Sweetspire Viburnum trilobum / American Cranberrybush 20 VT No. 3 Cont. PERENNIAL PLANTINGS 260 asi 18"0.C.,Bulbs Asclepias Incarnata / Swamp Milkweed 100 irv 18"0.C.,Quarts Iris virginica / Blue Flag Iris 68 LA 18"O.C., No.3 Cont. Lavandula angustifolia / English Lavender 186 lof 18"O.C.,Bulbs Lobelia fulgens/ Cardinal Flower 18 NR 18"O.C., No.3 Cont. Nepeta Racemosa / Catmint 126 B55 18"O.C., No.3 Cont. Oenothera fruticosa / Narrowleaf Evening Primrose

200poc 18"O.C., Bare—root 200sal 18"O.C., Bulbs Sagittaria latifolia / Arrowhead or Duck Potato





2800 W. Hamlin Rd., Rochester Hills, MI.

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4-2117 FINAL SUBMITTAL REVIEW

9-21-16 DESIGN REVIEW 6-11-16 PARKING LOT REVISION



Checked / Approved: RLN Job # 02-02-2017





DETAIL LANDSCAPE PLAN - AREA 'B' \( \frac{1}{3} \) LA - 4.6