

Office of the Utility Director Anthony A. Bunkelman P.E. 5043 Chester Lane Racine, WI 53402 www.caledonia-wi.gov

office: 262-835-6416 fax: 262-835-2388 email: ABunkelman@ caledonia-wi.gov

Thursday, May 6, 2021

Racine Wastewater Utility c/o Michael Gitter, Interim General Manager City Hall Annex Room 227 800 Center Street Racine, WI 53403

RE: Approval of Caledonia Utility District Sanitary Sewer Extension–Audubon Arboretum Phases 1 & 2

Dear Mr. Gitter:

The Caledonia Utility District has received, reviewed, and will approve Sanitary Sewer plans for Audubon Arboretum Phases 1 & 2. The Audubon Arboretum subdivision is located in the Southeast <sup>1</sup>/<sub>4</sub> of Section 17, Range 23 East, Town 4 North in the Village of Caledonia.

Audubon Arboretum Phases 1 & 2 is more specifically the extension of Robin Lane and Dustir Drive. It also includes the creation of Quail Circle, Green Heron Lane, and Grayhawk Parkway. Phase 1 develops 27 lots. Phase 2 also develops 27 lots for a total of 54 new single family residential lots.

All 54 lots will be served by the proposed Sanitary Sewer Extensions. The proposed extensions include 750.9' of 8" PVC in Quail Circle, 729.4' of 8" PVC in Green Heron Lane, 905.3' of 8" PVC in Grayhawk Parkway, and 495.4' of 8" PVC in Robin Lane.

The Caledonia Utility District is hereby requesting approval from the Racine Wastewater Utility for the construction of a 2,881' Sanitary Sewer Extension for Audubon Arboretum Phases 1 & 2.

If there are any questions about this request, please contact me directly at 262-835-6416 or <u>abunkelman@caledonia-wi.gov</u>

Sincerely,

thong Buchen

Anthony A Bunkelman P.E. Utility Director

Village of Caledonia 5043 Chester Lane Racine, WI 53402



Lincoln Center II • 2514 South 102<sup>nd</sup> Street, Suite 278 West Allis, WI 53227 (414) 336-7900 • Fax: (414) 336-7901 www.foth.com

January 30, 2019

Mr. Anthony A. Bunkelman, PE Village of Caledonia 6922 Nicholson Road Caledonia, WI 53108

RE: Audubon Arboretum Review

Dear Tony:

We have reviewed the Audubon Arboretum plan set dated January 23, 2019 as prepared by Pinnacle Engineering Group. We recommend approval of the construction plans conditioned on the completion of our original note regarding the addition of the storm sewer structure labeling being added to the profile view on Sheet 16.

Please call if there are any questions or comments.

Sincerely, Foth Infrastructure & Environment, LLC

Andy Schultz, PE Project Manager

cc: Bob Lui – Caledonia Utility District Nancy Washburn – Developer Aaron Koch, P.E. – Pinnacle Engineering Group

LEGEND			
	EXISTING	PROPOSED	
SANITARY SEWER MANHOLE	S	۲	
STORM SEWER MANHOLE	Ø	۲	
STORM SEWER CATCH BASIN (ROUND CASTING)	0	•	
STORM SEWER CATCH BASIN (RECTANGULAR CA	STING) 🗌		
PRECAST FLARED END SECTION	$\triangleleft$	<	
VALVE BOX	$\bowtie$		
FIRE HYDRANT	Q	◄	
CLEANOUT	0		
SANITARY SEWER	⊳	<b></b>	
STORM SEWER	)	<b></b>	
WATER MAIN	w	<u> </u>	
ELECTRICAL CABLE	——— E-———	IEI	
GAS MAIN	G	IGI	
TELEPHONE LINE	T	ITI	
UTILITY CROSSING			
LIGHT POLE	ά	•	
ELECTRICAL TRANSFORMER OR PEDESTAL	Ē		
POWER POLE	-0-	-•-	
POWER POLE WITH LIGHT	$\succcurlyeq$	$\times$	
GUY WIRE	-0		
STREET SIGN	þ	Þ	
CONTOUR	749	749	
SPOT ELEVATION	×(750.00)	<del>•</del> 750.00	
WETLANDS			
FLOODWAY			
FLOODPLAIN			
HIGH WATER LEVEL (HWL)			
NORMAL WATER LEVEL (NWL)			
DIRECTION OF SURFACE FLOW	<b>-</b> _	~~>	
DITCH OR SWALE	<b>-</b>	$\sim$	
DIVERSION SWALE		<b>&gt;</b> >	
OVERFLOW RELIEF ROUTING	$\Box$		
TREE WITH TRUNK SIZE	** <sup>6</sup> " () <sup>6"</sup>		
SOIL BORING	- <b>-</b>	- <b>d</b> =1	
TOPSOIL PROBE	 -∰	+ - <b>↓</b> <sup>∓</sup> -1	
FENCE LINE, TEMPORARY SILT	SF	SF	
FENCE LINE, WIRE	X	<b>—</b> ×——	
FENCE LINE, CHAIN LINK OR IRON	()	o	
FENCE LINE, WOOD OR PLASTIC			
CONCRETE SIDEWALK			
CURB AND GUTTER			
DEPRESSED CURB			
REVERSE PITCH CURB & GUTTFR			
EASEMENT LINE			

**ABBREVIATIONS** 

MH

PC

PT

PVI

ROW

SAN

ST

TΒ

TP

ΤS

ΤW

WΜ

**PINNACLE** ENGINEERING GROUP

Δ

NWL

3L	BASE LINE
3P	BOTTOM OF PIPE
2	LONG CHORD OF CURVE
C & G	CURB AND GUTTER
СВ	CATCH BASIN
CL	CENTERLINE
)	DEGREE OF CURVE
P	EDGE OF PAVEMENT
ES	FLARED END SECTION
F	FINISHED FLOOR
G	FINISHED GRADE
L	FLOW LINE
P	FLOODPLAIN
R	FRAME
W	FLOODWAY
YG	FINISHED YARD GRADE
HWL	HIGH WATER LEVEL
NV	INVERT
-	LENGTH OF CURVE

MANHOLE NORMAL WATER LEVEL POINT OF CURVATURE POINT OF TANGENCY POINT OF VERTICAL INTERSECTION RADIUS RIGHT-OF-WAY SANITARY SEWER STORM SEWER TANGENCY OF CURVE TOP OF BANK TOP OF CURB TOP OF FOUNDATION TOP OF PIPE TOP OF SIDEWALK TOP OF FOUNDATION WALL WATER MAIN

INTERSECTION ANGLE

2.	NO GEOTECHNICAL REPORT FO
3.	THE CONTRACTOR IS RESPONS
4.	THE CONTRACTOR SHALL PROM
5.	THE CONTRACTOR IS SOLELY INSTANCE RELY ON THE ENGINE
6.	QUESTIONS/CLARIFICATIONS W RESPONSES SHALL BE BINDING
7.	PRIOR TO START OF WORK, CO LIMITATIONS OF WORK ACCESS JOB EXTRAS.
8.	COMMENCEMENT OF CONSTRUTE TO COMPLETE THE PROJECT, W
9.	SHOULD ANY DISCREPANCIES OF THE DISCREPANCIES/CONFLICTSPECIFICATIONS AND PLANS, THE SPECIFICATIONS AND PLANS AND PLA
10.	THE CONTRACTOR SHALL, AT CONTRACTOR SHALL COMPLY V
11.	THE CONTRACTOR SHALL NO
12.	SAFETY IS THE SOLE RESPONS CONNECTION WITH THE WORK.
13.	CONTRACTOR SHALL KEEP THE OPERATE UNDER GENERAL "GC
11	

OWNER'S DIRECTION.

PLAN I DESIGN I DELIVER www.pinnacle-engr.com

> WISCONSIN OFFICE 15850 W. BLUEMOUND ROAD BROOKFIELD, WI 53005 (262) 754-8888 CHICAGO I MILWAUKEE : NATIONV

**ENGINEERING IMPROVEMENT PLANS** 

FOR **AUDUBON ARBORETUM** 

## CALEDONIA, WISCONSIN

PLANS PREPARED FOR

## **AUDUBON PARK RACINE, LLC**

8338 CORPORATE DRIVE #300 **MOUNT PLEASANT, WI 53406** 



PROJECT LOCATION

### **GENERAL NOTES**

THE INTENTION OF THE PLANS AND SPECIFICATIONS IS TO SET FORTH PERFORMANCE AND CONSTRUCTION MATERIAL STANDARDS FOR THE PROPER EXECUTION OF WORK. ALL WORKS CONTAINED WITHIN THE PLANS AND SPECIFICATIONS SHALL BE COMPLETED IN ACCORDANCE WITH ALL REQUIREMENTS FROM LOCAL, STATE, FEDERAL OR OTHER GOVERNING AGENCY'S LAWS, REGULATIONS, JURISDICTIONAL ORDINANCES/CODES/RULES/ETC., AND THE

OR THE PROJECT SITE.

SIBLE TO REVIEW AND UNDERSTAND ALL COMPONENTS OF THE PLANS AND SPECIFICATIONS, INCLUDING FIELD VERIFYING SOIL CONDITIONS, PRIOR TO SUBMISSION OF A BID PROPOSAL. MPTLY REPORT ANY ERRORS OR AMBIGUITIES LEARNED AS PART OF THEIR REVIEW OF PLANS, SPECIFICATIONS, REPORTS AND FIELD INVESTIGATIONS.

RESPONSIBLE FOR THE COMPUTATION OF QUANTITIES AND WORK REQUIRED TO COMPLETE THIS PROJECT. THE CONTRACTOR'S BID SHALL BE BASED ON ITS OWN COMPUTATIONS AND IN NO SUCH IEER'S ESTIMATE.

WILL BE INTERPRETED BY ENGINEER/OWNER PRIOR TO THE AWARD OF CONTRACT. ENGINEER/OWNER WILL SUBMIT OFFICIAL RESPONSES IN WRITING. INTERPRETATIONS PRESENTED IN OFFICIAL ON ALL PARTIES ASSOCIATED WITH THE CONTRACT. IN NO WAY SHALL WORD-OF-MOUTH DIALOG CONSTITUTE AN OFFICIAL RESPONSE.

ONTRACTOR SHALL BE COMPLETELY FAMILIAR WITH ALL CONDITIONS OF THE SITE, AND SHALL ACCOUNT FOR CONDITIONS THAT AFFECT, OR MAY AFFECT CONSTRUCTION INCLUDING, BUT NOT LIMITED TO S, SPACE LIMITATIONS, OVERHEAD OBSTRUCTIONS, TRAFFIC PATTERNS, LOCAL REQUIREMENTS, ADJACENT ACTIVITIES, ETC. FAILURE TO CONSIDER SITE CONDITIONS SHALL NOT BE CAUSE FOR CLAIM OF

UCTION SHALL EXPLICITLY CONFIRM THAT THE CONTRACTOR HAS REVIEWED THE PLANS AND SPECIFICATIONS IN ENTIRETY AND CERTIFIES THAT THEIR SUBMITTED BID PROPOSAL CONTAINS PROVISIONS WITH THE EXCEPTION OF UNFORESEEN FIELD CONDITIONS; ALL APPLICABLE PERMITS HAVE BEEN OBTAINED; AND CONTRACTOR UNDERSTANDS ALL OF THE REQUIREMENTS OF THE PROJECT.

OR CONFLICTS IN THE PLANS OR SPECIFICATIONS BE DISCOVERED AFTER THE AWARD OF CONTRACT, ENGINEER SHALL BE NOTIFIED IN WRITING IMMEDIATELY AND CONSTRUCTION OF ITEMS AFFECTED BY CTS SHALL NOT COMMENCE, OR CONTINUE, UNTIL A WRITTEN RESPONSE FROM ENGINEER/OWNER IS DISTRIBUTED. IN THE EVENT OF A CONFLICT BETWEEN REFERENCED CODES, STANDARDS, THE ONE ESTABLISHING THE MOST STRINGENT REQUIREMENTS SHALL BE FOLLOWED.

ITS OWN EXPENSE, OBTAIN ALL NECESSARY PERMITS AND LICENSES TO COMPLETE THE PROJECT. OBTAINING PERMITS, OR DELAYS, IS NOT CAUSE FOR DELAY OF THE CONTRACT OR SCHEDULE WITH ALL PERMIT REQUIREMENTS.

DTIFY ALL INTERESTED GOVERNING AGENCIES, UTILITY COMPANIES AFFECTED BY THIS CONSTRUCTION PROJECT, AND DIGGER'S HOTLINE IN ADVANCE OF CONSTRUCTION TO COMPLY WITH ALL CODES/RULES/ETC., PERMIT STIPULATIONS, AND OTHER APPLICABLE STANDARDS.

ISIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE TO INITIATE, INSTITUTE, ENFORCE, MAINTAIN, AND SUPERVISE ALL SAFETY PRECAUTIONS AND JOB SITE SAFETY PROGRAMS IN

E JOBSITE CLEAN AND ORDERLY AT ALL TIMES. ALL LOCATIONS OF THE SITE SHALL BE KEPT IN A WORKING MANNER SUCH THAT DEBRIS IS REMOVED CONTINUOUSLY AND ALL RESPECTIVE CONTRACTORS OOD HOUSEKEEPING.'

14. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, ENGINEER, AND THEIR AGENTS FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK ON THIS PROJECT.

### **AUDUBON ARBORETUM** CALEDONIA, WI

**COVER SHEET** 

	INDEX OF SHEETS
1	COVER SHEET
2	EXISTING CONDITIONS
3	MASTER GRADING PLAN
4	EROSION CONTROL PLAN
5 - 8	SANITARY SEWER PLAN & PROFILE
9 - 13	WATER MAIN PLAN & PROFILE
14 - 18	<b>STORM SEWER &amp; PAVEMENT</b>
	PLAN & PROFILE
19 - 22	<b>STORM SEWER PLAN &amp; PROFILE</b>
23 - 24	CONSTRUCTION DETAILS





Z:\PROJECTS\2017\957.00-WI\CAD\SHEETS\8 SANITARY SEWER PLAN & PROFILE.DWG



www.pinnacle-engr.com ц,





Z:\PROJECTS\2017\957.00-WI\CAD\SHEETS\8 SANITARY SEWER PLAN & PROFILE.DWG







# **AUDUBON ARBORETUM**

**CONSTRUCTION DETAILS** 

<u>1 PER VILLAGE COMMENTS</u> 01/23/19

\_\_\_\_\_



23 24

TAI Ш TION 2 SZ 



Z:\PROJECTS\2017\957.00-WI\CAD\SHEETS\23 CONSTRUCTION DETAILS.DWG

ONSTRUCTION DETAI