

**AGENDA**  
**BOARD OF PUBLIC WORKS MEETING**  
**Tuesday, May 28, 2019 at 7:00 p.m.**  
**Jackson Village Hall**  
**N168 W20733 Main Street**  
**Jackson, WI 53037**

1. Call to Order and Roll Call.
2. Approval of the Board of Public Works minutes of April 30, 2019.
3. Review of US Cellular Antenna Reconfiguration – White Water Tower
4. Review of Maplewood Subdivision Phase 1 – Utility Plans
5. Discussion on Jackson Park Alley Reconstruction Project
6. Review of Quotes on Creating a Yard Waste and Drop-Off Site.
7. Discussion of Village Informational Signs.
8. Director of Public Works Report.
9. Citizens/Village Staff to address the Board.
10. Adjourn.

Persons with disabilities requiring special accommodations for attendance at the meeting should contact the Village Hall at least one (1) business day prior to the meeting.

It is possible that members of the Village Board may attend the above meeting. No action will be taken by any governmental body at this meeting other than the governmental body specifically referred to in this meeting notice. This notice is given so that members of the Village Board may attend the meeting without violating the open meeting law.

**DRAFT Minutes**  
**Board of Public Works Meeting**  
**Tuesday, April 30, 2019 at 7:00 p.m.**  
**Jackson Village Hall**  
**N168 W20733 Main Street**

**1. Call to Order and Roll Call.**

Chair Olson called the meeting to order at 7:00 p.m.

Members present: Brian Heckendorf, Dan Leonard, Tr. Lippold, Sarah Malchow, Tr. Malcolm, and Gloria Teifke

Staff present: Brian Kober, John Walther, and Jilline Dobratz.

**2. Approval of the Board of Public Works Minutes of March 26, 2019.**

Motion by Tr. Malcolm, second by Brian Heckendorf to approve the Board of Public Works minutes of March 26, 2019.

Vote: 7 ayes, 0 nays. Motion carried.

**3. Resolution #19-06 Discontinuing Public Right of Way – Sylvester Circle.**

Brian Kober commented this is to discontinue the public right of way on Sylvester Circle which will be moved north for TIF #6. The new constructed street will be created with a new Certified Survey Map (CSM).

Motion by Brian Heckendorf, second by Chair Olson recommend Village Board approve Resolution #19-06 Discontinuing Public Way – Sylvester Circle.

Vote: 7 ayes, 0 nays. Motion carried.

**4. Review of Water Application – Sherman Road – Brian Behrens Property.**

Brian Kober explained the applicant is present and is requesting water service for his property he would like to subdivide on Sherman Road. Brian Behrens gave history on the property; this is a 5-acre parcel that runs along Sherman Road. It was his intention to farm the property and now he has decided to sell it. Because of the soil test and the way the 5-acre lot has been approved, the parcel can be divided into two lots. He will present to the Town of Jackson for a land division. Tr. Lippold enquired if he was going to petition to annex into the Village. Brian Behrens stated he hadn't planned on it. Chair Olson explained a water study is currently being completed on the capacity in that area. Brian Kober stated there is an 8" water main in the front of the property; sewer would have to be run to the property. A lift station would have to be put in; the sewer at Oakland is not deep enough to run east. An option for the applicant would be wells. Motion by Chair Olson, second by Tr. Malcom to recommend the Village Board deny the Water Application – Sherman Road – Brian Behrens Property at this time due to the water study that is ongoing and the land division that would need to be approved by Village Board.

Vote: 6 ayes, 1 nay (Brian Heckendorf). Motion carried.

Brian Behrens asked if there was an appeal process. Chair Olson recommended the land division be submitted and to investigate annexation into the Village. Brian Kober stated the water study is scheduled to be reviewed at the June Board of Public Works meeting. Chair Olson explained division of lots, the Village has extra territorial powers.

- 5. Review of Engineering Services – Chateau Drive & Hickory Lane Project.**  
Brian Kober requested proposals from two engineering firms: Cedar Corp and Gremmer & Associates, to assist with the street improvements in Chateau Drive from Wilshire Drive to Hunters Road and Hickory Lane from Stonehedge Drive to Heather Lane. The schedule is to have the preliminary design completed in June 2019, advertise for bids in July 2019, award contract in August 2019, and complete the project by November 2019. Staff recommends the low bid from Cedar Corp in the amount of \$18,500.00. Sarah Malchow asked if this project is the most pressing. Brian Kober stated Chateau Drive is in the most need of replacing the street and repairing the water main. Motion by Chair Olson, second by Brian Heckendorf to recommend to the Village Board approval of Review of Engineering Services – Chateau Drive & Hickory Lane Project to Cedar Corp in an amount not to exceed \$18,500.00 plus incidentals cost.  
Vote: 7 ayes, 0 nays. Motion carried.
- 6. Final Pay Request – 2018 Miscellaneous Streets 2018 – Stark Pavement.**  
Brian Kober stated during the process of pay request #1, the Village retained \$6,706.06 from Stark Pavement for protection on the final product. The street held up very well with all the freezing and thawing. Motion by Brian Heckendorf, second by Tr. Lippold to recommend the Village Board approve Final Pay Request – 2018 Miscellaneous Streets 2018 – Stark Pavement in the amount of \$6,706.06.  
Vote: 7 ayes, 0 nays. Motion carried.
- 7. Review of Quote for Reconditioning Business Park Signs**  
Brian Kober received proposals from Appleton Sign Company to restore the two Industrial Park signs at Northwest Passage and Cedar Parkway. Both signs have faded from the sunlight and the interior lights need to be repaired. The Northwest Passage sign proposal is in the amount of \$9,620.87. The Cedar Parkway proposal is in the amount of \$9,399.52. There is one space left open on the sign which could be offered to the United States Post Office. Brian Kober will reach out to the businesses currently listed on the sign. Motion by Brian Heckendorf, second by Gloria Teifke to recommend the Village Board approve the proposals of Reconditioning Business Park Signs on Northwest Passage, not to exceed \$9,620.87, and Cedar Parkway not to exceed \$9,399.52. Chair Olson enquired if there is enough money in the hotel/motel room tax fund to cover the signs. John Walther stated there is enough money in the fund for the signs.  
Vote: 7 ayes, 0 nays. Motion carried.
- 8. Review of Quotes on Creating a Yard Waste and Drop-Off Site.**  
Brian Kober reported another fence quote hasn't been received yet. A quote from Johnson & Sons Paving was received. The two quotes for paving are Munson, Inc. in the amount of \$48,291.00 and Johnson Paving in the amount of \$49,874.00. The driveway from Munson, Inc. is \$8,500.00 and Johnson & Sons Paving is \$8,826.00. He will see if Munson will hold the pricing. Tr. Lippold asked if we have history with the two companies. Brian Kober gave information on both companies and explained projects they have done for the Village. Motion by Chair Olson, second by Tr. Lippold to refer review of quotes on creating a yard waste and drop-off site to the next meeting while waiting for more information.  
Vote: 7 ayes, 0 nays. Motion carried.

**9. Discussion of Village Informational Signs.**

Brian Kober gave dimensions of the signs. The signs are big. Once the signs are redesigned, he will get another bid. Brian Heckendorf asked if people will know what a Safety Building is. Discussion on rewording the sign to include Police, Fire and, Village Hall. Discussion of Village Informational Signs will continue at next month's meeting.

**10. Director of Public Works Report.**

Brian Kober gave the report. The average flow is 1.2-1.3 million gallons per day, wet fall, winter, and spring so far. They are partnering with Cedar Creek Farmers Group to educate the public on the importance of water quality in the Cedar Creek Watershed. Plans are being made for a field day in September 2019. The safety building property will be planted with cover crop for the event. Maplewood Farms concept plan is in the process of being reviewed. The engineering design of the first phase will be at next month's meeting. The salt building is up and waiting for the delivery of salt. The concrete for the playground has been poured and all the equipment has been installed. The site is being prepared for the rubber mat and landscaping with the goal of completion by Memorial Day Weekend. Tr. Lippold enquired how the Spring Clean-up went. Brian Kober said six dumpsters were ordered and three additional were needed. It was well received, and residents appreciated the service. It costs the Village approximately \$12,000 to \$15,000 and it has been a yearly event for over 17 years. Motion by Tr. Lippold, second by Brian Heckendorf to place the Director of Public Works report on file.

Vote: 7 ayes, 0 nays. Motion carried.

**11. Citizens/Village Staff to Address the Board.**

Brian Heckendorf asked when the silt netting will be removed from the drains on Ridgeway Drive. Brian Kober stated they are waiting for it to dry out so landscaping can be completed.

**12. Adjourn.**

Motion by Tr. Lippold, second by Dan Leonard to adjourn.

Vote: 7 ayes, 0 nays. Meeting was adjourned 7:58 p.m.

Respectfully submitted,

Jilline Dobratz, *CMC/WCMC*  
Village Clerk

**STATE LOCATION**




**SITE LOCATION**



**PROJECT TEAM**

**PROJECT CONTACT:**  
 NAME: U.S. CELLULAR CORPORATION  
 ADDRESS: 8410 W. BRYN MAWR, SUITE 700  
 CITY, STATE, ZIP: CHICAGO, IL 60631  
 CONTACT: JOHN MAUDLIN  
 PHONE: (918) 636-7676

**SITE ACQUISITION:**  
 NAME: FAULK & FOSTER  
 ADDRESS: 1811 AUBURN AVE.  
 CITY, STATE, ZIP: MONROE, LA 71201  
 CONTACT: DAN HOOVER  
 PHONE: (918) 636-7676

**TOWER OWNER:**  
 NAME: VILLAGE OF JACKSON  
 ADDRESS: 326 TRYON ROAD  
 CITY, STATE, ZIP: JACKSON, WI 53037  
 CONTACT: N/A  
 PHONE: (262) 677-9001

**CIVIL ENGINEER:**  
 NAME: TOWER ENGINEERING PROFESSIONALS, INC.  
 ADDRESS: 326 TRYON ROAD  
 CITY, STATE, ZIP: RALEIGH, NC 27603-3530  
 CONTACT: GRAHAM M. ANDRES, P.E.  
 PHONE: (919) 661-6351

**RRH RELOCATION DRAWINGS**

SITE NAME:  
**JACKSON WT**

SITE NUMBER:  
**784425**

SITE ADDRESS:  
**W227 N16551 SYSCO DRIVE  
 JACKSON, WI 53037  
 (WASHINGTON COUNTY)**

**PROJECT INFORMATION**

LATITUDE: N 43° 19' 12.49" \*  
 LONGITUDE: W 88° 11' 27.66" \*  
 GROUND ELEVATION: 918.2'± (2-C CERT) \*  
 \* INFORMATION PROVIDED USCC  
 \*\* INFORMATION FROM GOOGLE EARTH

TOWER TYPE: 156' WATER TANK  
 LOADING TYPE: 2T2R  
 ACCESS ISSUES: N/A  
 GATE COMBO: 7110



**INDEX OF SHEETS**

NO.	SHEET TITLE	REV
T-1	TITLE SHEET	0
C-1	SITE SURVEY	0
C-2	COMPOUND DETAIL	0
C-3	SHELTER DETAILS	0
C-4	TOWER ELEVATION	0
C-5	UNDERGROUND COAX PORT LAYOUT	0
C-6	COAX LAYOUT	0
C-7	GROUND BAR DETAILS	0
C-8	ANTENNA MOUNTING DETAILS	0
C-9	RAYCAP, COMBINER & RRH SPEC SHEET (TYP)	0
C-10	PLUMBING DIAGRAM	0
C-11	LABELING STANDARDS I	0
C-12	LABELING STANDARDS II	0
N-1	GENERAL NOTES	0
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

**STRUCTURAL NOTE**

STRUCTURAL STATUS:  
 • MOUNT SA - PENDING  
 • TOWER SA - COMPLETED BY VILLAGE OF JACKSON

**SCOPE OF WORK**

**TOWER SCOPE:**

EXISTING EQUIPMENT TO REMAIN:  
 (3) CDMA PANEL ANTENNAS  
 (6) TH 1st CDMA COAX  
 (3) LTE PANEL ANTENNAS

PROPOSED EQUIPMENT:  
 (3) ERICSSON RRUS-11 B5 RRHs  
 (3) ERICSSON RRUS-11 B12 RRHs  
 (6) KELLIS EBC050F1751 COMBINERS  
 (1) RAYCAP RUSDC-6267-PF-48  
 (1) 1/2" HYBRID CABLE

**LTE JUMPERS:**  
 (3) FIBER JUMPERS FROM RAYCAP TO BAND 5 RRHs  
 (3) FIBER JUMPERS FROM RAYCAP TO BAND 12 RRHs  
 (3) POWER JUMPERS FROM RAYCAP TO BAND 5 RRHs  
 (3) POWER JUMPERS FROM RAYCAP TO BAND 12 RRHs  
 (6) JUMPERS FROM BAND 5 RRHs TO COMBINERS  
 (6) JUMPERS FROM BAND 12 RRHs TO COMBINERS  
 (6) JUMPERS FROM COMBINERS TO ANTENNAS

**TOP TOWER GROUND BAR #1:**  
 CAN ACCOMMODATE ADDITIONAL GROUND LEADS.

**TOP TOWER GROUND BAR #2:**  
 CAN ACCOMMODATE ADDITIONAL GROUND LEADS.

**TOP TOWER GROUND BAR #3:**  
 CAN ACCOMMODATE ADDITIONAL GROUND LEADS.

**BOTTOM TOWER GROUND BAR:**  
 CAN ACCOMMODATE ADDITIONAL GROUND LEADS.

**SHELTER EXTERIOR SCOPE:**  
 UNDERGROUND COAX RUN:  
 CAN ACCOMMODATE ADDITION OF (1) HYBRID CABLE.

**SHELTER COAX PORT:**  
 CAN ACCOMMODATE ADDITION OF (1) HYBRID CABLE.

**SHELTER INTERIOR SCOPE:**

PROPOSED EQUIPMENT:  
 (1) RAYCAP RUSDC-6267-PF-48

EXISTING EQUIPMENT  
 (3) RRUS-11 B5 RRHs, (3) RRUS-11 B12 RRHs, AND (6) COMBINERS TO BE RELOCATED TO EXISTING WATER TANK OR HARVESTED FOR USE AT ANOTHER SITE.

**CABLE TRAY:**  
 PROPOSED HORIZONTAL AND VERTICAL CABLE TRAYS REQUIRED TO ACCOMMODATE PROPOSED (1) HYBRID CABLE.

**SHELTER INTERNAL GROUND BAR:**  
 CAN ACCOMMODATE ADDITIONAL GROUND LEAD.

**SPECIAL REQUIREMENTS:**

ANTENNA AZIMUTHS:  
 NO AZIMUTH ADJUSTMENT REQUIRED FOR EXISTING LTE AND CDMA ANTENNAS.

ANTENNA MOUNT:  
 ANTENNA MOUNT ANALYSIS PENDING.

**DECOMMISSIONED EQUIPMENT REMOVAL:**

EQUIPMENT REMOVAL:  
 (3) ERICSSON RRUS-11 B5 RRHs FROM SHELTER  
 (3) ERICSSON RRUS-11 B12 RRHs FROM SHELTER  
 (6) KELLIS COMBINERS FROM SHELTER  
 \* (6) TH 1st LTE COAX  
 \* (3) ERICSSON BIAS-T FROM WATER TANK

\* POST-INTEGRATION

PLANS PREPARED FOR:  
  
 1840 W. BRYN MAWR, SUITE 700  
 CHICAGO, IL 60631  
 (773) 399-8900

PROJECT INFORMATION:  
**784425  
 JACKSON WT**  
 W227 N16551 SYSCO DRIVE  
 JACKSON, WI 53037  
 (WASHINGTON COUNTY)

PLANS PREPARED BY:  
  
 TOWER ENGINEERING PROFESSIONALS  
 326 TRYON ROAD  
 RALEIGH, NC 27603-3530  
 OFFICE: (919) 661-6351  
 www.tepgroup.net

SEAL:

0	03-04-19	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: RGR | CHECKED BY: JFE

SHEET TITLE:  
**TITLE SHEET**

SHEET NUMBER: **T-1** | REVISION: **0**  
 TEP#1-47657.217025



**BIRD'S EYE AERIAL OVERVIEW**

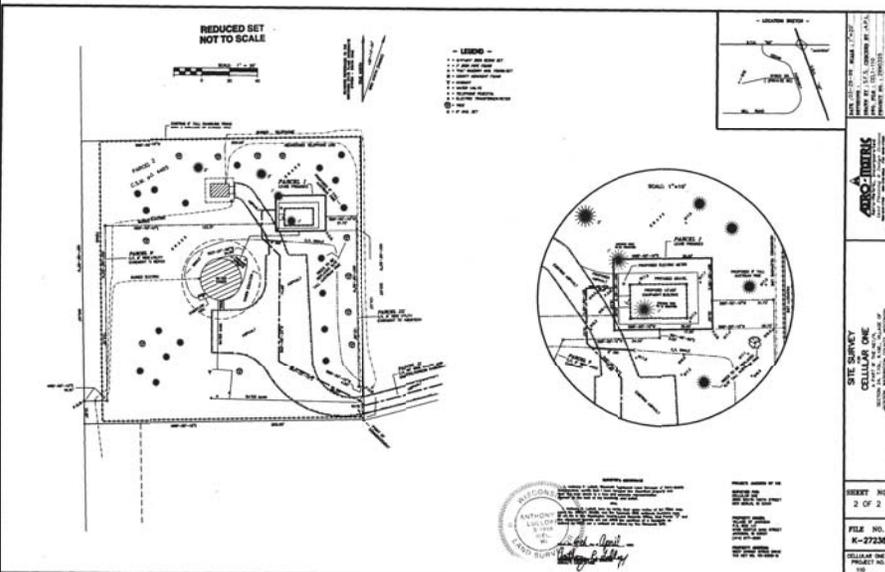


**SITE OVERVIEW**



**SITE OVERVIEW**

**NOTE:**  
 SITE SURVEY DATED APRIL 06, 1999 BY  
 ANTHONY P. LULLOFF OF AERO-METRIC INC.  
 PROVIDED BY USCC.



**SITE SURVEY**  
 SCALE: N.T.S.

PLANS PREPARED FOR:  
**U.S. Cellular**  
 8410 W. BRYN MAWR, SUITE 700  
 CHICAGO, IL 60631  
 (773) 399-8900

PROJECT INFORMATION:  
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 www.tepgroup.net

SEAL:

0	03-04-15	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: RSR | CHECKED BY: JPE

SHEET TITLE:  
**SITE SURVEY**

SHEET NUMBER: **C-1** | REVISION: **0**  
 TEP#: 147657.217025



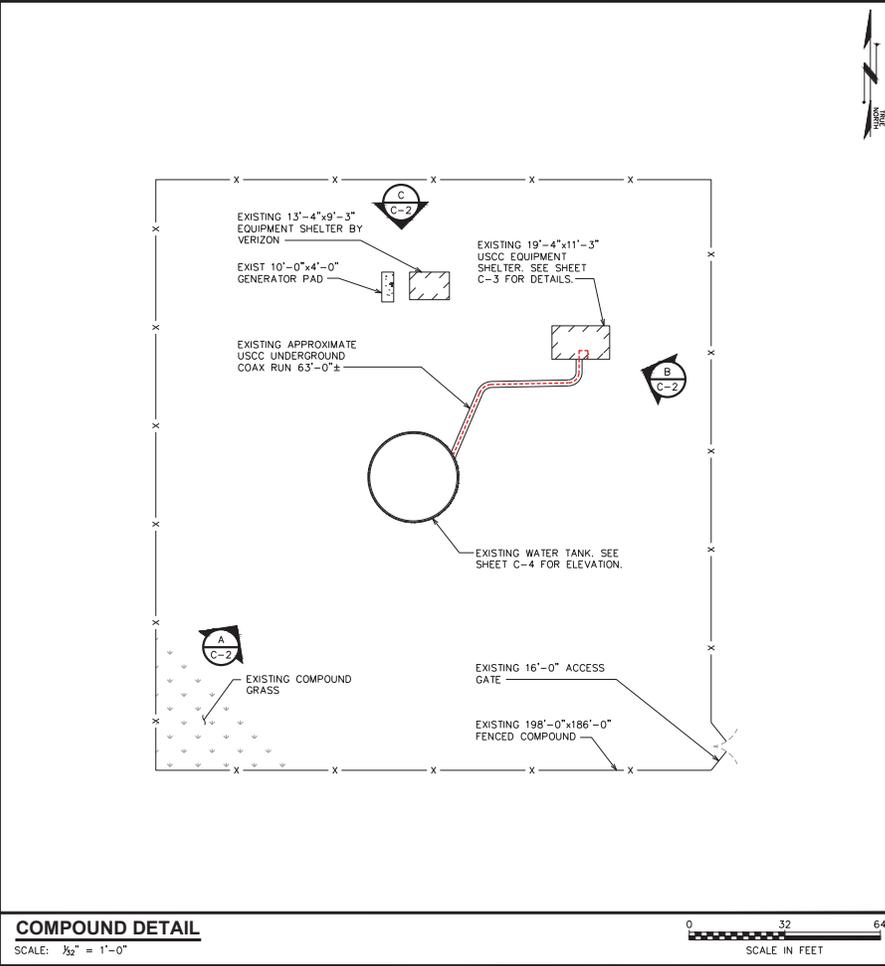
**COMPOUND VIEW "A"**



**COMPOUND VIEW "B"**



**COMPOUND VIEW "C"**



**COMPOUND DETAIL**  
 SCALE: 1/32" = 1'-0"

PLANS PREPARED FOR:  
**U.S. Cellular**  
 8410 W. BRYN MAWR, SUITE 700  
 CHICAGO, IL 60631  
 (773) 399-8900

PROJECT INFORMATION:  
**784425**  
**JACKSON WT**  
 W227 N16551 SYSCO DRIVE  
 JACKSON, WI 53037  
 (WASHINGTON COUNTY)

PLANS PREPARED BY:  
  
**TOWER ENGINEERING PROFESSIONALS**  
 326 TRYON ROAD  
 RALEIGH, NC 27603-3530  
 OFFICE: (919) 661-4351  
 www.tepgroup.net

SEAL:

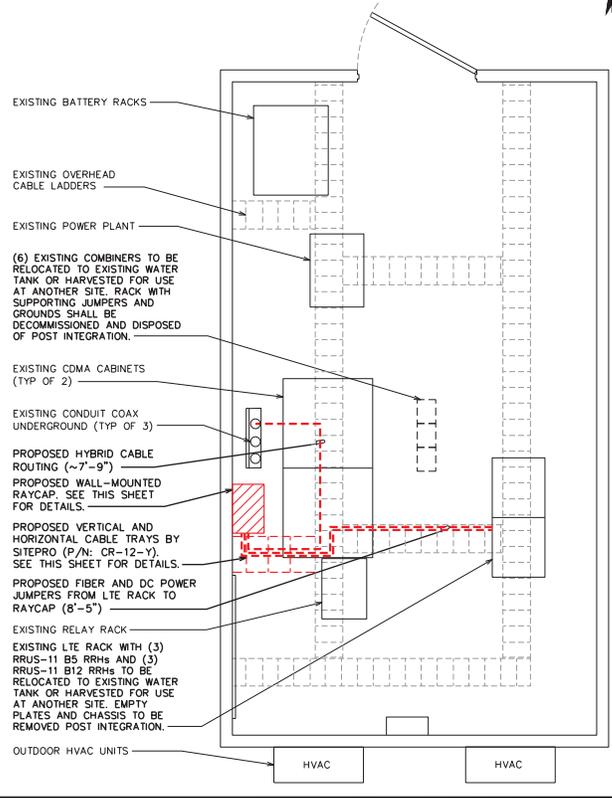
0	03-04-19	PRELIMINARY
REV	DATE	ISSUED FOR:
DRAWN BY:	RSR	CHECKED BY: JPE

SHEET TITLE:  
**COMPOUND DETAIL**

SHEET NUMBER: **C-2**  
 REVISION: **0**  
 TEP#: 147657.217025

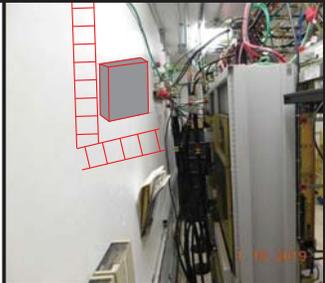
**PROPOSED ESTIMATED CABLE TRAY LENGTHS**

BELOW EACH RAYCAP	VERTICAL ROUTE	FROM SHELTER WALL TO OVERHEAD CABLE TRAY
3'-0"	6'-0"	2'-4"



**INTERIOR SHELTER LAYOUT**

SCALE: N.T.S.



**LOCATION OF PROP. RAYCAP**

SCALE: N.T.S.

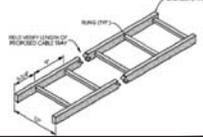


**LOC. OF EX. eNODE B RACK**

SCALE: N.T.S.

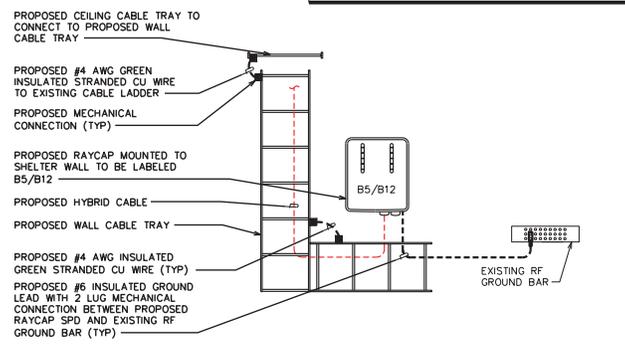
**NOTE:**

PROPOSED CABLE RUNWAY BY SITEPRO P/N: CR-12-Y OR APPROVED EQUIVALENT.



**PROPOSED CABLE RUNWAY**

SCALE: N.T.S.



**WALL CABLE TRAY DETAIL (TYP)**

SCALE: N.T.S.

PLANS PREPARED FOR:  
 U.S. Cellular  
 8410 W. BRYN MAWR, SUITE 700  
 CHICAGO, IL 60631  
 (773) 399-8900

PROJECT INFORMATION:  
**784425**  
**JACKSON WT**  
 W227 N16551 SYSCO DRIVE  
 JACKSON, WI 53037  
 (WASHINGTON COUNTY)

PLANS PREPARED BY:  
 TOWER ENGINEERING PROFESSIONALS  
 326 TRYON ROAD  
 RALEIGH, NC 27603-3530  
 OFFICE: (919) 661-6351  
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SEAL:

0	03-04-19	PRELIMINARY
REV	DATE	ISSUED FOR:
DRAWN BY:	RSR	CHECKED BY: JPE

SHEET TITLE:  
**SHELTER DETAILS**

SHEET NUMBER: **C-3** REVISION: **0**  
 TEP#147657.217025

EUPEN HYBRID CABLE LENGTH	
PROPOSED RAYCAP QUANTITY IN SHELTER:	1
EXISTING RAYCAP QUANTITY IN SHELTER:	0
LENGTH FROM SHELTER RAYCAP TO COAX PORT:	8-FT
UNDERGROUND COAX RUN:	63-FT
RAYCAP CENTERLINE + 12FT BUFFER:	178-FT
TOTAL ESTIMATED LENGTH OF HYBRID CABLE:	249-FT
<b>TOTAL EST. LENGTH OF HYBRID CABLE (ROUNDED UP):</b>	<b>250-FT</b>

JUMPER INFO		
FIBER/POWER JUMPER LENGTH FROM RAYCAP TO RRH		
	BAND 12	BAND 5
ALPHA SECTOR:	15-FT	15-FT
BETA SECTOR:	15-FT	15-FT
GAMMA SECTOR:	15-FT	15-FT
1/2" COAX JUMPER FROM B12 RRH TO COMBINERS		
ALPHA SECTOR:	6-FT	
BETA SECTOR:	6-FT	
GAMMA SECTOR:	6-FT	
1/2" COAX JUMPER FROM B5 RRH TO COMBINERS		
ALPHA SECTOR:	6-FT	
BETA SECTOR:	6-FT	
GAMMA SECTOR:	6-FT	
1/2" COAX JUMPER FROM COMBINERS TO ANTENNA		
ALPHA SECTOR:	20-FT	
BETA SECTOR:	20-FT	
GAMMA SECTOR:	20-FT	

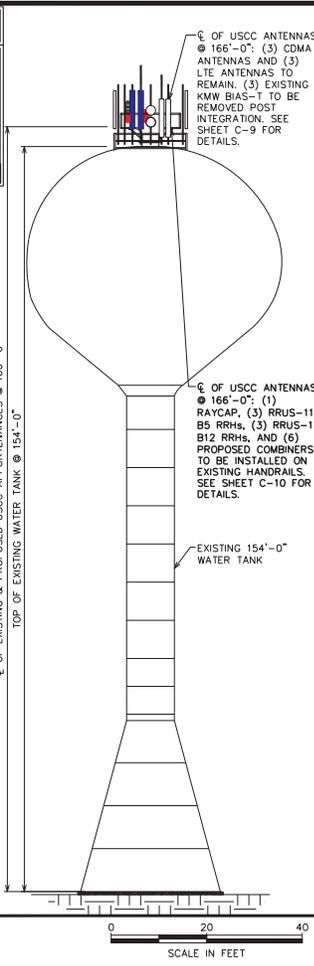
RET JUMPER INFO	
	RRH TO ANTENNA
ALPHA SECTOR:	10-M
BETA SECTOR:	10-M
GAMMA SECTOR:	10-M

EXISTING LTE PANEL TO REMAIN:	
EXISTING CDMA PANEL TO REMAIN:	

PROPOSED TOWER ELEVATION	
SCALE: 1" = 20'	0 20 40 SCALE IN FEET



PLANS PREPARED FOR:



8410 W. BRYN MAWR, SUITE 700  
CHICAGO, IL 60631  
(773) 399-8900

PROJECT INFORMATION:

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JACKSON WT**

W227 N16551 SYSCO DRIVE  
JACKSON, W 53037  
(WASHINGTON COUNTY)

PLANS PREPARED BY:



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326 TRYON ROAD  
RALEIGH, NC 27603-3530  
OFFICE: (919) 661-4351  
www.tepgroup.net

SEAL:

DATE	ISSUED FOR:
03-04-19	PRELIMINARY
REV	DATE
DRAWN BY: RSR	CHECKED BY: JPE

SHEET TITLE:

**TOWER  
ELEVATION**

SHEET NUMBER:	REVISION:
<b>C-4</b>	<b>0</b>
TEP#147657.217025	

**NOTES:**

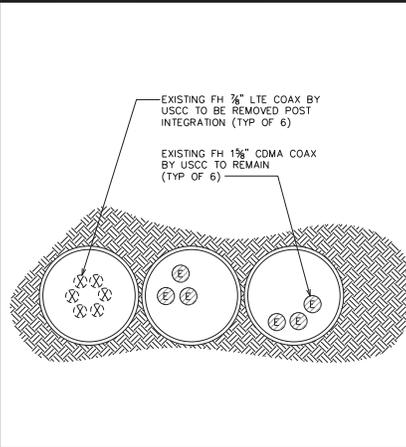
ANALOG COAX (IF APPLICABLE) TO BE REMOVED IS LABELED WITH GREEN TAPE.

**LEGEND**

EMPTY PORT	
EXISTING COAX TO REMAIN	
EXISTING COAX TO BE REMOVED	
PROPOSED COAX	
EXISTING EWG	
PROPOSED EWG	



**EXISTING UNDERGROUND PORT SHELTER**

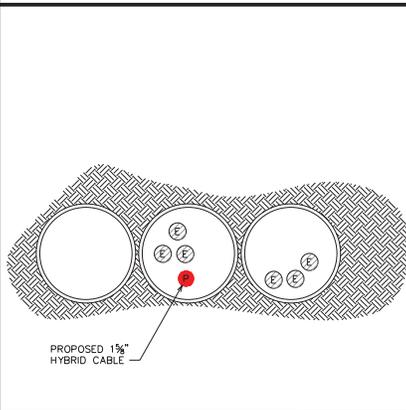


**EXISTING UNDERGROUND PORT LAYOUT**

SCALE: N.T.S.



**EXISTING UNDERGROUND PORT EXIT**



**PROPOSED UNDERGROUND PORT LAYOUT**

SCALE: N.T.S.

PLANS PREPARED FOR:

**U.S. Cellular**  
 8410 W. BRYN MAWR, SUITE 700  
 CHICAGO, IL 60651  
 (773) 399-8900

PROJECT INFORMATION:

**784425  
 JACKSON WT**  
 W227 N16551 SYSCO DRIVE  
 JACKSON, WI 53037  
 (WASHINGTON COUNTY)

PLANS PREPARED BY:



**TOWER ENGINEERING PROFESSIONALS**  
 326 TRYON ROAD  
 RALEIGH, NC 27603-3530  
 OFFICE: (919) 661-4351  
 www.tepgroup.net

SEAL:

Q	03-04-19	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: RSR | CHECKED BY: JPE

SHEET TITLE:  
**UNDERGROUND  
 COAX PORT  
 LAYOUT**

SHEET NUMBER: <b>C-5</b>	REVISION: <b>0</b>
TEP#: 147657.217025	

**LEGEND**

SCALE: N.T.S.

LEGEND	
EXISTING COAX TO REMAIN	
EXISTING COAX TO BE REMOVED	
PROPOSED COAX	
EXISTING EWG	
PROPOSED EWG	



PLANS PREPARED FOR:  
 U.S. Cellular  
 8410 W. BRYN MAWR, SUITE 700  
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 (773) 399-8900

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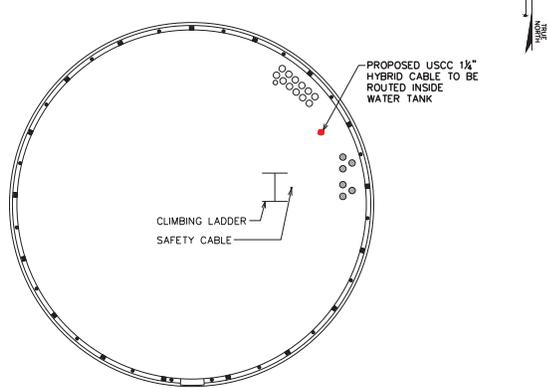
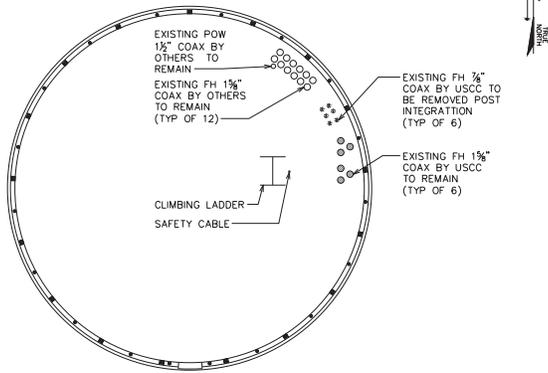
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 www.tepgroup.net

SEAL:

**LEGEND**  
SCALE: N.T.S.

**USCC WAVEGUIDE**

**NOTES:**  
 CONTRACTOR TO VERIFY COAX LOCATIONS WITH STRUCTURAL ANALYSIS AND TOWER OWNER PRIOR TO INSTALLATION.



**EXISTING COAX LAYOUT**  
SCALE: 1/8" = 1'-0"



**PROPOSED COAX LAYOUT**  
SCALE: 1/8" = 1'-0"



REV	DATE	ISSUED FOR:
0	03-04-19	PRELIMINARY

DRAWN BY: RSR CHECKED BY: JPE  
 SHEET TITLE:  
**COAX LAYOUT**

SHEET NUMBER: **C-6** REVISION: **0**  
 TEP#: 147657.217025



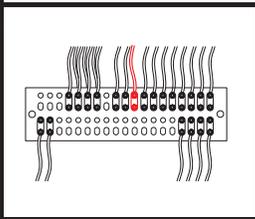
**EXIST. INSIDE SHELTER**  
SCALE: N.T.S.

**EXIST. TOWER BOTTOM**  
SCALE: N.T.S.

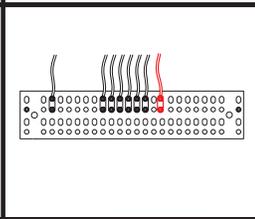
**EXIST. TOWER TOP #1**  
SCALE: N.T.S.

**EXIST. TOWER TOP #2**  
SCALE: N.T.S.

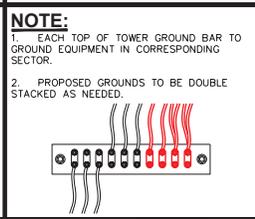
**EXIST. TOWER TOP #3**  
SCALE: N.T.S.



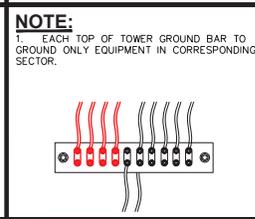
**PROP. INSIDE SHELTER**  
SCALE: N.T.S.



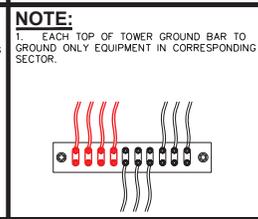
**PROP. TOWER BOTTOM**  
SCALE: N.T.S.



**PROP. TOWER TOP #1**  
SCALE: N.T.S.



**PROP. TOWER TOP #2**  
SCALE: N.T.S.



**PROP. TOWER TOP #3**  
SCALE: N.T.S.

PLANS PREPARED FOR:  
**U.S. Cellular**  
8410 W. BRYN MAWR, SUITE 700  
CHICAGO, IL 60631  
(773) 399-8900

PROJECT INFORMATION:  
**784425  
JACKSON WT**  
W227 N16551 SYSCO DRIVE  
JACKSON, W 53037  
(WASHINGTON COUNTY)

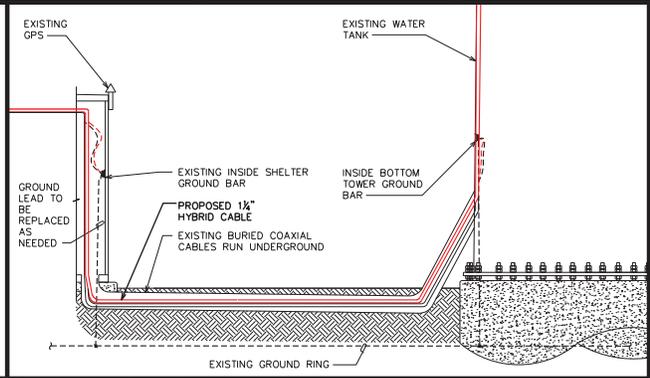
PLANS PREPARED BY:  
  
**TOWER ENGINEERING PROFESSIONALS**  
326 TRYON ROAD  
RALEIGH, NC 27603-3530  
OFFICE: (919) 661-6351  
www.tepgroup.net

**NOTES:**

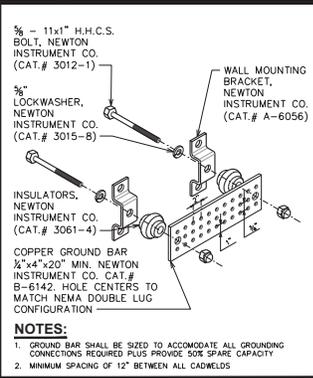
- MAX 20" GROUND BAR BY SITE PRO P/N: MC42051-K
- ACCEPTS 3/8" LUGS
- 51-HOLES ALLOWS UP TO 17 RUNS
- 0.75", 0.815" OR 1" HOLE SPACING
- KIT INCLUDES INSULATORS AND STAINLESS STEEL BRACKETS
- CONTRACTOR TO REPLACE EXISTING LUGS AND GROUND LUG WASHERS AS NEEDED.



**PROPOSED GND. BAR DETAIL**  
SCALE: N.T.S.



**SIDE VIEW**



**STANDARD GND. BAR DETAIL**  
SCALE: N.T.S.

SEAL:

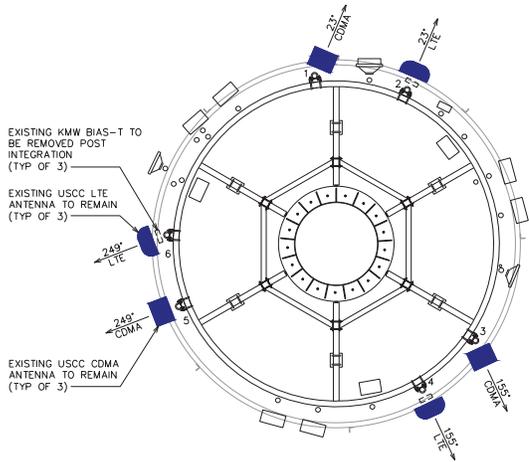
0	03-04-19	PRELIMINARY
REV	DATE	ISSUED FOR:
DRAWN BY: RSR		CHECKED BY: JPE

SHEET TITLE:  
**GROUND BAR DETAILS**

SHEET NUMBER: **C-7** REVISION: **0**  
TEP#147657.217025

**LEGEND**

EXISTING LTE PANEL TO REMAIN	
EXISTING CDMA PANEL TO REMAIN	
EXISTING BIAS-T TO BE REMOVED	

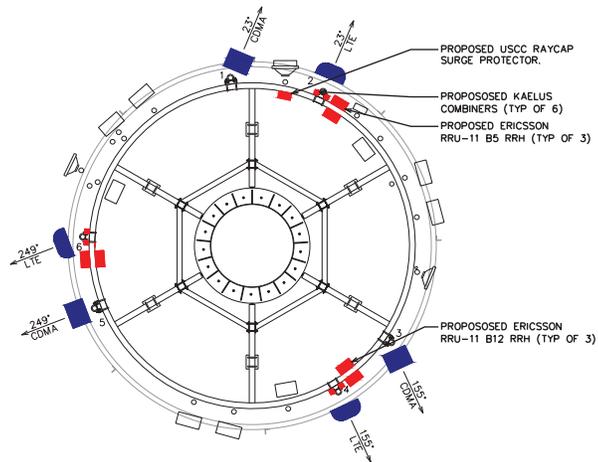


**LEGEND**

EXISTING LTE ANTENNA TO REMAIN	
EXISTING CDMA ANTENNA TO REMAIN	
PROPOSED RAYCAP SURGE PROTECTOR	
PROPOSED ERICSSON B5/B12 RRUs	
PROPOSED COMBINERS	

**NOTES:**

1. NO LTE OR CDMA AZIMUTH ADJUSTMENT REQUIRED.
2. MOUNT STRUCTURAL ANALYSIS PENDING.



PLANS PREPARED FOR:  
  
 8410 W. BRYN MAWR, SUITE 700  
 CHICAGO, IL 60631  
 (773) 399-8900

PROJECT INFORMATION:  
**784425**  
**JACKSON WT**  
 W227 N16551 SYSCO DRIVE  
 JACKSON, WI 53037  
 (WASHINGTON COUNTY)

PLANS PREPARED BY:  
  
 TOWER ENGINEERING PROFESSIONALS  
 326 TRYON ROAD  
 RALEIGH, NC 27603-3530  
 OFFICE: (919) 661-4351  
 www.tepgroup.net

SEAL:  
 \_\_\_\_\_  
 \_\_\_\_\_

**EXISTING LOADING**

ANTENNAS				CABLES			TOWER TOP RELATED EQUIPMENT							
SECTOR	ANTENNA POSITION NUMBER	MANUFACTURER / MODEL NUMBER	ELEC. D-TILT	MECH. D-TILT	TECH.	BAND	CABLE TYPE	COAX SIZE	CABLE QTY.	CABLE LENGTH	TOP BIAS-T	RRH	RAYCAP	ANTENNA NOTES
ALPHA	1	BXA-70045-100-EDN-S	-	0°	CDMA	B5	COAX	1/2"	2	234'-1"	-	-	-	TO REMAIN
ALPHA	2	AM-S-CR-100-001-RET	-	0°	LTE	85/72	COAX	1/2"	2	234'-1"	1	-	-	TO REMAIN
BETA	3	BXA-70045-100-EDN-S	-	0°	CDMA	B5	COAX	1/2"	2	234'-1"	-	-	-	TO REMAIN
BETA	4	AM-S-CR-100-001-RET	-	0°	LTE	85/72	COAX	1/2"	2	234'-1"	1	-	-	TO REMAIN
GAMMA	5	BXA-70045-100-EDN-S	-	0°	CDMA	B5	COAX	1/2"	2	234'-1"	-	-	-	TO REMAIN
GAMMA	6	AM-S-CR-100-001-RET	-	0°	LTE	85/72	COAX	1/2"	2	234'-1"	1	-	-	TO REMAIN

**PROPOSED LOADING**

ANTENNAS				CABLES			TOWER TOP RELATED EQUIPMENT							
SECTOR	ANTENNA POSITION NUMBER	MANUFACTURER / MODEL NUMBER	ELEC. D-TILT	MECH. D-TILT	TECH.	BAND	CABLE TYPE	COAX SIZE	CABLE QTY.	CABLE LENGTH	COMBINER	RRH	RAYCAP	ANTENNA NOTES
ALPHA	1	BXA-70045-100-EDN-S	-	0°	CDMA	B5	COAX	1/2"	2	234'-1"				
ALPHA	2	AM-S-CR-100-001-RET	-	0°	LTE	85/72	COAX	1/2"	2	234'-1"	(3) KAELUS (3) RRU-11 B5 (3) ERICSSON	(1) RRU-11 B5 (1) ERICSSON		
BETA	3	BXA-70045-100-EDN-S	-	0°	CDMA	B5	COAX	1/2"	2	234'-1"				
BETA	4	AM-S-CR-100-001-RET	-	0°	LTE	85/72	COAX	1/2"	2	234'-1"	(3) KAELUS (3) RRU-11 B5 (3) ERICSSON	(1) RRU-11 B5 (1) ERICSSON		
GAMMA	5	BXA-70045-100-EDN-S	-	0°	CDMA	B5	COAX	1/2"	2	234'-1"				
GAMMA	6	AM-S-CR-100-001-RET	-	0°	LTE	85/72	COAX	1/2"	2	234'-1"	(3) KAELUS (3) RRU-11 B5 (3) ERICSSON	(1) RRU-11 B5 (1) ERICSSON		

\*\*KAEULUS, RRHs AND COMBINERS LOCATED IN RRH MOUNT SEE SHEET C-9 FOR DETAILS.  
 \*\*\*CONTRACTOR TO CORRECT PANEL LOADING PRIOR TO INSTALL.  
 \*\*\*CONTRACTOR TO REPLACE TOP HARDLINE CONNECTOR AND JUMPER ON CDMA ANTENNAS WHERE WE HAVE TO BREAK THE CONNECTION TO RELOCATE WHEN APPLICABLE.

**EXISTING ANTENNA ASSIGNMENT**

SCALE: 1/4" = 1'-0"



**PROPOSED ANTENNA ASSIGNMENT**

SCALE: 1/4" = 1'-0"

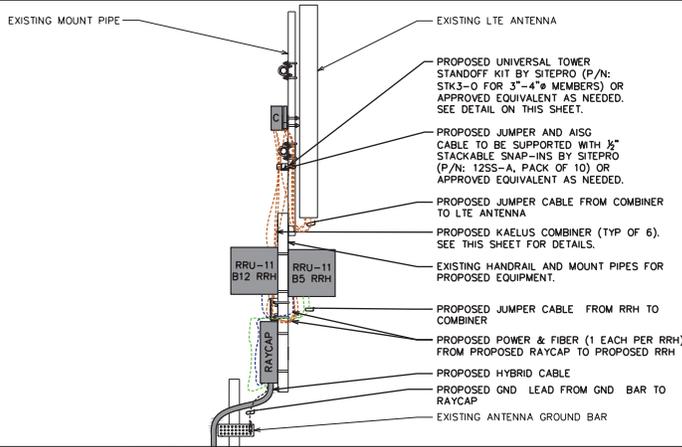


0	03-04-19	PRELIMINARY
REV	DATE	ISSUED FOR:
DRAWN BY:	RSR	CHECKED BY: JPE

SHEET TITLE:

**ANTENNA MOUNTING DETAILS**

SHEET NUMBER:	REVISION:
<b>C-8</b>	0
	TEP#147657.217025



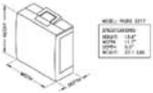
**NOTES:**

1. USCC TO PROVIDE ERICSSON RRHS.
2. CONTRACTOR TO LEAVE OPENING FOR SAFETY CLIMB AND ENSURE SAFETY CLIMB IS NOT OBSTRUCTED/COMPROMISED.
3. RRHS TO BE RELOCATED FROM SHELTER AND EXISTING MOUNT.

**RAYCAP & RRH MOUNTING DETAIL (ELEVATION)**

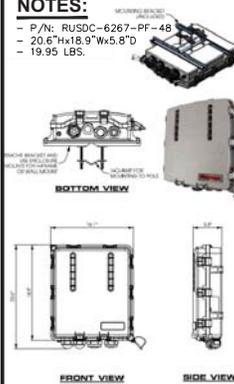
SCALE: N.T.S.

**RADIO TYPES**  
 Model: RRU-11  
 Band: 12, 5 AND 2  
 Freq: 700MHz  
 Dimensions: W 17.0 X D 7.2 X H 17.8  
 Weight: 50.7 Lbs.  
 MIMO: 2x2



**NOTES:**

- P/N: RUSDC-6267-PF-48
- 20.6"Hx18.9"Wx5.8"D
- 19.95 LBS.



**NOTES:**

1. SINGLE SUPPORT KIT:  
 - ERICSSON P/N SKK1072839/1  
 - WEIGHT: 11 LBS
2. EXPANSION KIT ORDERED IN ADDITION TO SINGLE SUPPORT KIT FOR DUAL MOUNT:  
 - ERICSSON P/N SKK1072839/2  
 - WEIGHT: 4.4 LBS
3. ALL HARDWARE INCLUDED
4. INSTALL PER MANUFACTURER RECOMMENDATIONS



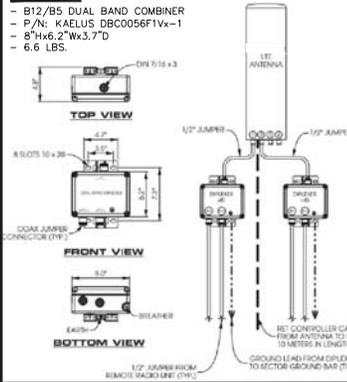
**NOTES:**

- 1/4" FIBER OPTIC CABLE WITH 48V ENERGY FEEDER IN CORRUGATED ALUMINUM SHIELDING WITH UV RESISTANT PE JACKET.
- MINIMUM BENDING RADIUS: 360mm (14")
- MAXIMUM PULLING STRENGTH: 1500dn
- MAXIMUM HANGER SPACING: 1.0m
- APPROX WEIGHT: 2300kg/km (1.55LB/FT)
- SHIPPED W/4" PROTECTED JACKET (2.25" O.D.) AT EACH END
- NON-ARMORED ENDS ARE 3" IN LENGTH (2" O.D.)



**NOTES:**

- B12/B5 DUAL BAND COMBINER
- P/N: KAELUS DBC0056F1Vx-1
- 8"Hx6.2"Wx3.7"D
- 6.6 LBS.



**RRU SPEC SHEET**

SCALE: N.T.S.

**RAYCAP SPEC SHEET**

SCALE: N.T.S.

**RRU SUPPORT KIT**

SCALE: N.T.S.

**EUPEN HYBRID CABLE**

SCALE: N.T.S.

**COMBINER SPEC SHEET**

SCALE: N.T.S.

PLANS PREPARED FOR:  
  
 8410 W. BRYN MAWR, SUITE 700  
 CHICAGO, IL 60651  
 (773) 399-8900

PROJECT INFORMATION:  
**784425**  
**JACKSON WT**  
 W227 N16551 SYSCO DRIVE  
 JACKSON, W 53037  
 (WASHINGTON COUNTY)

PLANS PREPARED BY:  
  
 TOWER ENGINEERING PROFESSIONALS  
 326 TRYON ROAD  
 RALEIGH, NC 27603-3530  
 OFFICE: (919) 661-4351  
 www.tepgroup.net

SEAL:


DATE	03-04-15	PRELIMINARY
REV		ISSUED FOR:
DRAWN BY:	RSR	CHECKED BY: JPE

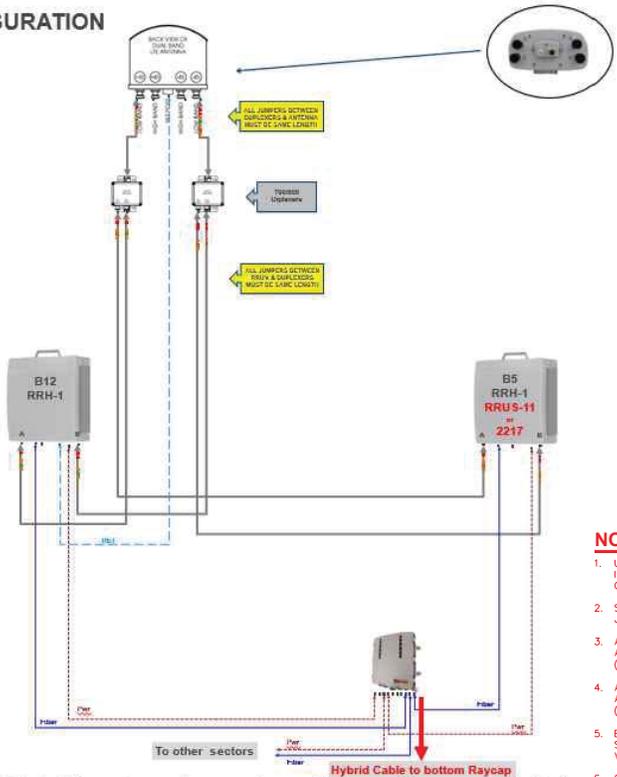
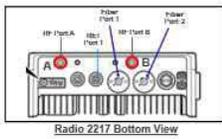
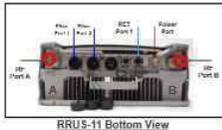
SHEET TITLE:  
**RAYCAP, COMBINER & RRH SPEC SHEET (TYP)**

SHEET NUMBER:	REVISION:
<b>C-9</b>	<b>0</b>
	TEP#147657.217025

# Ericsson 2T2R B12 / 2T2R B5

**THIS IS A PER SECTOR CONFIGURATION**

Cable Legend	
	LRN Hybrid Cable
	50' Coax Cable
	Fiber Jumper
	Power Jumper
	RRH Jumper



- NOTES:**
1. UNUSED PORTS TO BE CAPPED, CAPS INCLUDED WITH EQUIPMENT PURCHASE. CONTRACTOR TO SUPPLY IF NECESSARY.
  2. SEE TOWER ELEVATION FOR SPECIFIC JUMPER LENGTHS AND SIZES.
  3. ALL JUMPERS BETWEEN RRHs AND ANTENNAS MUST BE THE SAME LENGTH (PER SECTOR).
  4. ALL JUMPERS BETWEEN COMBINERS AND ANTENNAS MUST BE THE SAME LENGTH (PER SECTOR).
  5. EXCESS JUMPER AND RET CABLES TO BE SECURED WITH GROMMETS AND SNAP-INS. VELCRO MAY NOT BE USED.
  6. CONTRACTOR TO USE STRANDED INSULATED GROUND LEAD #6, SPECIFIED BY MANUFACTURER.

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**TYPICAL PLUMBING DIAGRAM - SINGLE SECTOR**

SCALE: N.T.S.

PLANS PREPARED FOR:  
  
 8410 W. BRYN MAWR, SUITE 700  
 CHICAGO, IL 60631  
 (773) 399-8900

PROJECT INFORMATION:  
**784425**  
**JACKSON WT**  
 W227 N16551 SYSCO DRIVE  
 JACKSON, WI 53037  
 (WASHINGTON COUNTY)

PLANS PREPARED BY:  
  
 TOWER ENGINEERING PROFESSIONALS  
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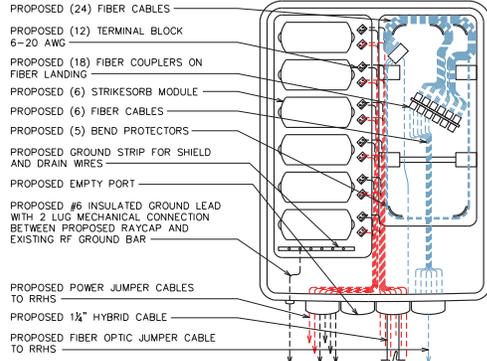
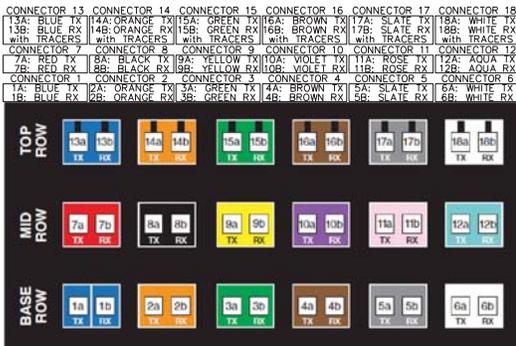
SEAL:

0	03-04-15	PRELIMINARY
REV	DATE	ISSUED FOR:
DRAWN BY:	RSR	CHECKED BY: JPE

SHEET TITLE:  
**PLUMBING DIAGRAM**

SHEET NUMBER: <b>C-10</b>	REVISION: <b>0</b>
TEP#147657.217025	

**NOTE:**  
REFER TO USCC DOCUMENT "TOWER MOUNTED EQUIPMENT AND TOWER CABLE STANDARDS AT CELL SITES" FOR COMPLETE COLOR CODING STANDARDS.



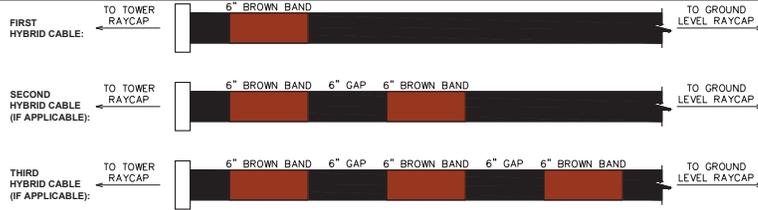
PLANS PREPARED FOR:  
 U.S. Cellular  
 8410 W. BRYN MAWR, SUITE 700  
 CHICAGO, IL 60651  
 (773) 399-8900

PROJECT INFORMATION:  
**784425**  
**JACKSON WT**  
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 JACKSON, W 53037  
 (WASHINGTON COUNTY)

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 326 TRYON ROAD  
 RALEIGH, NC 27603-3530  
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**FIBER CABLE LABELING**

SCALE: N.T.S.

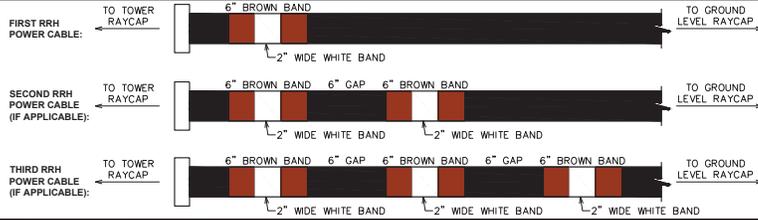


**RAYCAP CABLING**

SCALE: N.T.S.

**HYBRID CABLE BANDING**

SCALE: N.T.S.



**FIBER CABLE BANDING**

SCALE: N.T.S.

SEAL:

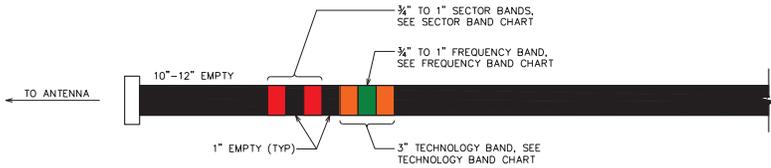
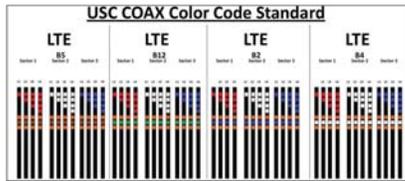
0	03-04-19	PRELIMINARY
REV	DATE	ISSUED FOR:
DRAWN BY:	RSR	CHECKED BY: JPE

SHEET TITLE:  
**LABELING STANDARDS I**

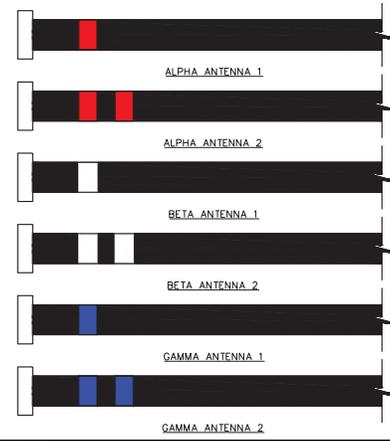
SHEET NUMBER: **C-11** REVISION: **0**  
 TEP#147657.217025

Sector Band Assignments (Most Common Case: Single Technology within the Sector)					
Sector Band	Assigned Color	Line 1	Line 2	Line 3	Line 4
Alpha (Sector 1)	red	1 red band	2 red bands	3 red bands	4 red bands
Beta (Sector 2)	white	1 white band	2 white bands	3 white bands	4 white bands
Gamma (Sector 3)	blue	1 blue band	2 blue bands	3 blue bands	4 blue bands
Delta (Sector 4, if applicable)	green	1 green band	2 green bands	3 green bands	4 green bands
Epsilon (Sector 5, if applicable)	violet	1 violet band	2 violet bands	3 violet bands	4 violet bands
Zeta (Sector 6, if applicable)	brown	1 brown band	2 brown bands	3 brown bands	4 brown bands

FREQUENCY BAND	
FREQUENCY	FREQUENCY BAND
700	GREEN
800	BROWN
1900	BLUE
2100	WHITE

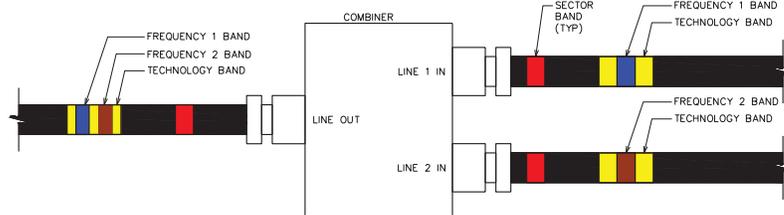


RET SECTOR BAND		
SECTOR	LINE 1 - FIRST TECHNOLOGY	LINE 2 - FIRST TECHNOLOGY
ALPHA	(1) RED BAND	(2) RED BAND
BETA	(1) WHITE BAND	(2) WHITE BAND
GAMMA	(1) BLUE BAND	(2) BLUE BAND



### COAX CABLE BANDING

SCALE: N.T.S.



### COAX BANDING THROUGH DIPLEXER

SCALE: N.T.S.

### RET CABLE BANDING

SCALE: N.T.S.

PLANS PREPARED FOR:  
 U.S. Cellular  
 8410 W. BRYN MAWR, SUITE 700  
 CHICAGO, IL 60651  
 (773) 599-8900

PROJECT INFORMATION:  
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PLANS PREPARED BY:  
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SEAL:

0	03-04-15	PRELIMINARY
REV	DATE	ISSUED FOR:
DRAWN BY:	RSR	CHECKED BY:
		JPE

SHEET TITLE:  
**LABELING STANDARDS II**

SHEET NUMBER: **C-12** REVISION: **0**  
 TEP#: 147657.217025

**GENERAL NOTES:**

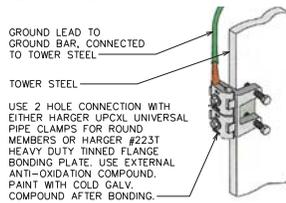
- ALL REFERENCES TO OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED U.S. CELLULAR OR IT'S DESIGNATED REPRESENTATIVE.
- ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE OF WISCONSIN.
- STRUCTURE IS DESIGNED IN ACCORDANCE WITH ANSI/TIA-222-G-2, 2009, AND THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2015 EDITION.
- WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2015 EDITION.
- UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
- ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERCEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
- ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATIONS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE OWNER SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE PROCEDURES.
- ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
- ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE RESIDENT LEASING AGENCY FOR APPROVAL.
- BILL OF MATERIALS AND PART NUMBERS LISTED ON CONSTRUCTION DRAWINGS ARE INTENDED TO AID CONTRACTOR. CONTRACTOR SHALL VERIFY PARTS AND QUANTITIES WITH MANUFACTURER PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
- ALL PERMITS THAT MUST BE OBTAINED ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
- 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER.
- THE CONTRACTOR SHALL REWORK (DRY, SCARIFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SUBGRADE IN IT PRESENT STATE. AFTER REWORKING, IF THE MATERIAL REMAINS UNSUITABLE, THE CONTRACTOR SHALL UNDERCUT THIS MATERIAL AND REPLACE WITH APPROVED MATERIAL. ALL SUBGRADES SHALL BE PROOFROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO PAVING. ANY SOFTER MATERIAL SHALL BE REWORKED OR REPLACED.

**STRUCTURAL STEEL NOTES:**

- THE FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS AND MANUAL OF STEEL CONSTRUCTION, 14TH EDITION.
- UNLESS OTHERWISE NOTED, ALL STRUCTURAL ELEMENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
  - STRUCTURAL STEEL, ASTM DESIGNATION A36 OR GR50.
  - ALL BOLTS, ASTM A325 TYPE I GALVANIZED HIGH STRENGTH BOLTS.
  - ALL NUTS, ASTM A563 CARBON AND ALLOY STEEL NUTS.
  - ALL WASHERS, ASTM F436 HARDENED STEEL WASHERS.
- ALL CONNECTIONS NOT FULLY DETAILED ON THESE PLANS SHALL BE DETAILED BY THE STEEL FABRICATOR IN ACCORDANCE WITH AISC SPECIFICATIONS AND MANUAL OF STEEL CONSTRUCTION, 13TH EDITION.
- HOLES SHALL NOT BE FLAME CUT THRU STEEL UNLESS APPROVED BY THE ENGINEER.
- HOT-DIP GALVANIZE ALL ITEMS UNLESS OTHERWISE NOTED, AFTER FABRICATION WHERE PRACTICABLE. GALVANIZING: ASTM A123, ASTM, A153/A153M OR ASTM A653/A653M, G90, AS APPLICABLE.
- REPAIR DAMAGED SURFACES WITH GALVANIZING REPAIR METHOD AND PAINT CONFORMING TO ASTM A780 OR BY APPLICATION OF STICK OR THICK PASTED MATERIAL SPECIFICALLY DESIGNED FOR REPAIR OF GALVANIZING. CLEAN AREAS TO BE REPAIRED AND REMOVE SLAG FROM WELDS. HEAT SURFACES TO WHICH STICK OR PASTE MATERIAL IS APPLIED, WITH A TORCH TO A TEMPERATURE SUFFICIENT TO MELT THE METALLICS IN STICK OR PASTED; SPREAD MOLTEN MATERIAL UNIFORMLY OVER SURFACES TO BE COATED AND WIPE OFF EXCESS MATERIAL.
- A NUT LOCKING DEVICE SHALL BE INSTALLED ON ALL PROPOSED AND/OR REPLACED BOLTS.
- ALL PROPOSED AN/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH TO EXCLUDE THE THREADS FROM THE SHEAR PLANE.
- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT BE AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
- ALL ASSEMBLY AND ANCHOR BOLTS ARE TO BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED IN SECTION 8.1 OF THE AISC, "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", DATED JUNE 30, 2004.
- FLAT WASHERS ARE TO BE INSTALLED WITH BOLTS OVER SLOTTED HOLES.
- DO NOT OVER TORQUE ASSEMBLY BOLTS. GALVANIZING ON BOLTS, NUTS, AND STEEL PARTS MAY ACT AS A LUBRICANT, THUS OVER TIGHTENING MAY OCCUR AND MAY CAUSE BOLTS TO CRACK AND SNAP OFF.
- PAL NUTS ARE TO BE INSTALLED AFTER NUTS ARE TIGHT AND WITH EDGE LIP OUT. PAL NUTS ARE NOT REQUIRED WHEN SELF-LOCKING NUTS ARE PROVIDED.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL WELDING SHALL BE IN ACCORDANCE WITH THE AWS D1.1:2010, STRUCTURAL WELDING CODE-REINFORCING STEEL. ALL WELDERS SHALL DISPLAY PROPER CERTIFICATION OF QUALIFICATION.

**GROUNDING NOTES:**

- ALL CADWELD CONNECTIONS TO GALVANIZED MATERIAL SHALL BE PROPERLY PREPARED TO ASSURE A SATISFACTORY CADWELD.
- CADWELD CONNECTION SHALL BE COATED WITH COLD GALVANIZING SPRAY.
- ALL VERTICAL JUMPERS SHALL NOT BE WELDED WITHIN TWO FT OF THE GROUND ROD.
- SECTOR GROUNDING DIAGRAM:



PLANS PREPARED FOR:

8410 W. BRYN MAWR, SUITE 700  
CHICAGO, IL 60631  
(773) 399-8900

PROJECT INFORMATION:

**784425  
JACKSON WT**

W227 N16551 SYSCO DRIVE  
JACKSON, WI 53037  
(WASHINGTON COUNTY)

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS  
326 TRYON ROAD  
RALEIGH, NC 27603-3530  
OFFICE: (919) 661-6351  
www.tepgroup.net

SEAL:

0	03-04-19	PRELIMINARY
REV	DATE	ISSUED FOR:
DRAWN BY:	RSR	CHECKED BY:
		JPE

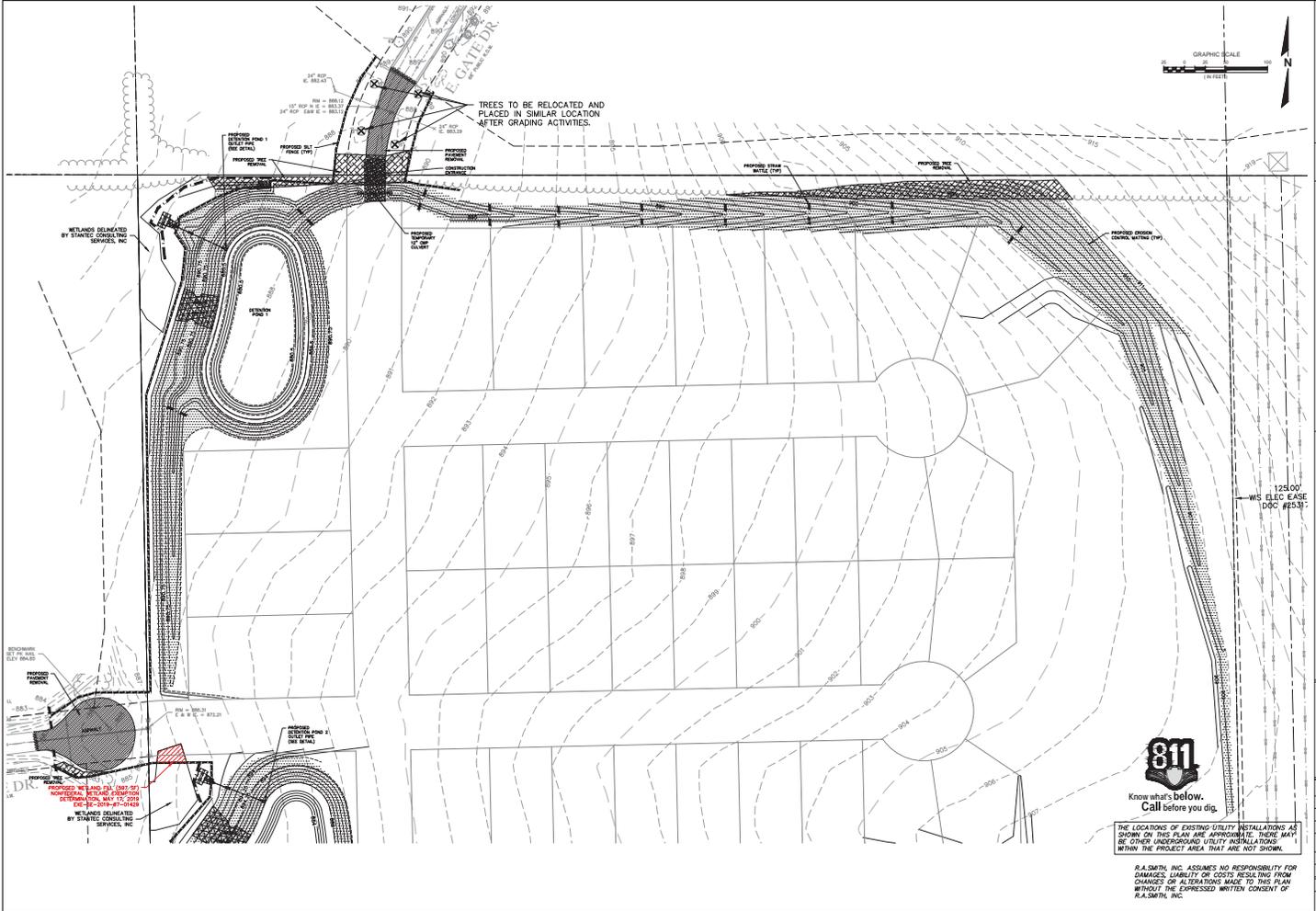
SHEET TITLE:

**GENERAL NOTES**

SHEET NUMBER:	REVISION:
<b>N-1</b>	<b>0</b>
	TEP#147657.217025

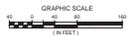
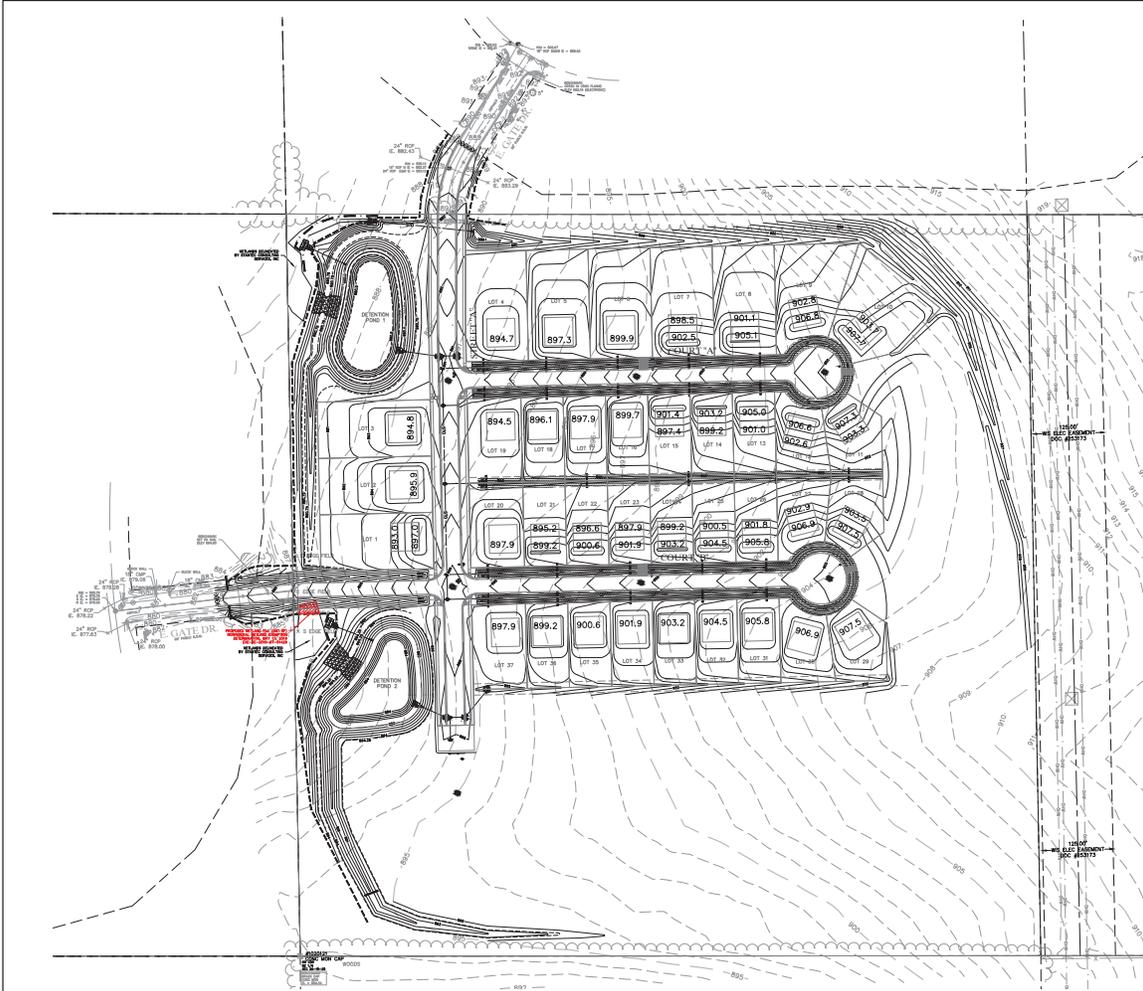






DESCRIPTION	
DATE	
 10045 W. Mainwood Blvd Rockahall, VA 23060-9238 (802) 791-1000 R.A.SMITH, INC. CIVIL/GEOTECHNICAL ENGINEERING	10045 W. Mainwood Blvd Rockahall, VA 23060-9238 (802) 791-1000 R.A.SMITH, INC. CIVIL/GEOTECHNICAL ENGINEERING
<b>MAPLEWOOD FARMS SUBDIVISION PH I</b> <b>VILLAGE OF JACKSON</b> <b>DETAILED EROSION CONTROL - NORTH</b>	<b>PRELIMINARY</b> <b>NOT FOR</b> <b>CONSTRUCTION</b>
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THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE COMPUTATIONS OF ALL GRADING QUANTITIES AND FOR THE ACTUAL LAND BALANCE, INCLUDING UTILITY TRENCH SPILL. THE CONTRACTOR SHALL IMPORT OR EXPORT MATERIAL AS NECESSARY TO COMPLETE THE PROJECT.

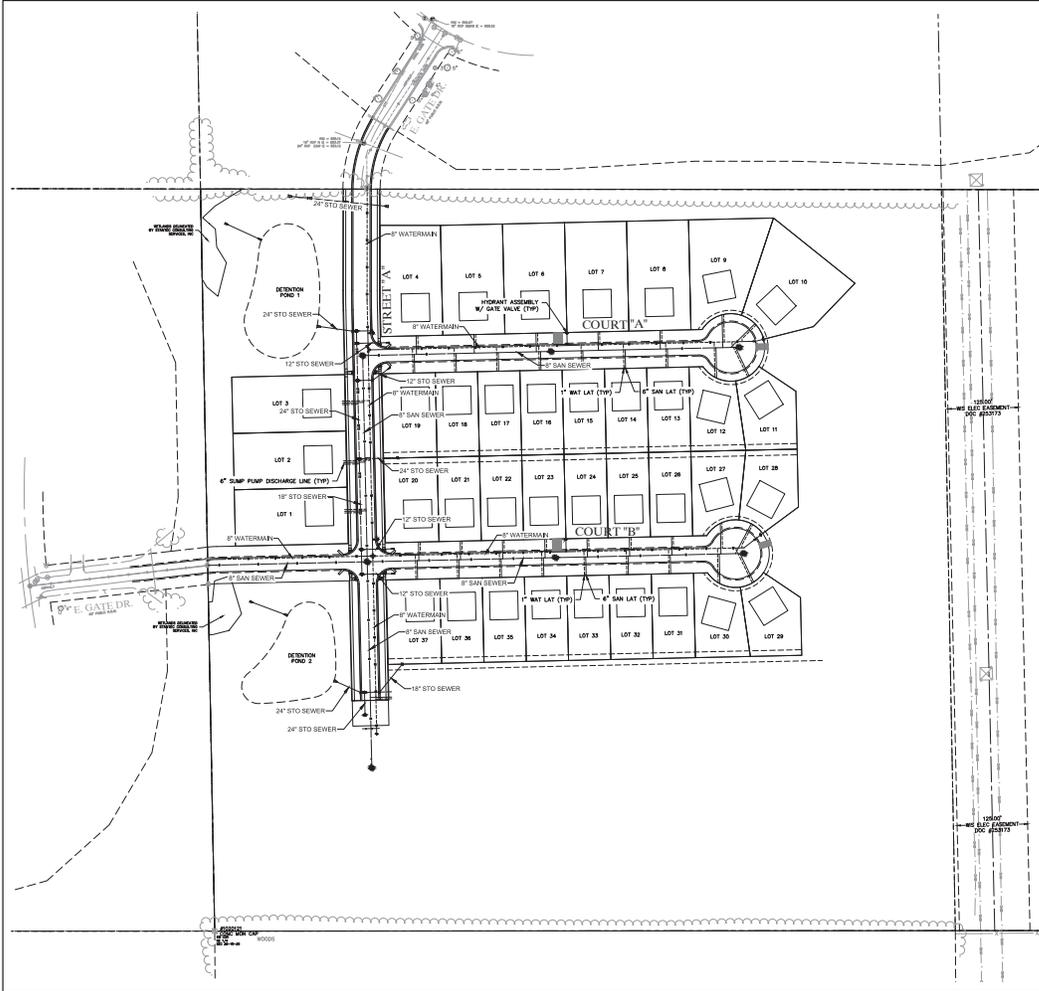
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DESCRIPTION	
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10245 W. Blomwood Blvd Boscobel, WI 53005-5228 (262) 781-1000 www.r-smith.com	
<b>raSmith</b> CREATIVITY BETTER ENGINEERING	
Boscobel, WI 53005-5228   P.O. Box 101   Boscobel, WI 53005-0101 Madison, WI 53706-1000   Wausau, WI 54980-1000	
<b>MAPLEWOOD FARMS SUBDIVISION P.H.I. VILLAGE OF JACKSON OVERALL GRADING PLAN</b>	
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JOB NO. 3180088 PROJECT MANAGER: CHRIS D. HEEN, P.E. DESIGNED BY: CMJ	
CHECKED BY: DJW SHEET NUMBER C103	







**WATER MAIN NOTES:**

1. ALL WATER MAIN SHALL BE 8" DIAMETER PVC SCH-10, CLASS 100, CONFORMING TO ANSA C-900, WITH "PUSH-ON" TYPE RUBBER GASKET JOINTS.
2. ALL WATER LATERALS SHALL BE 1" DIAMETER COPPER.
3. ALL HYDRANTS SHALL BE TRAFFIC MODELS WITH BREAK-AWAY FLANGES, PAINTED RED AND OPEN LEFT. A 4" RESILIENT RUBBER GATE VALVE SHALL BE PROVIDED TO EACH HYDRANT LEAD AND CONNECTED TO THE MAIN BY AN APPROVED AND TESTED GATE TO THE LEAD FROM BOTH THE GATE VALVE AND HYDRANT.
4. ALL WIRE VALVES SHALL CONFORM TO ANSA-C500, RESILIENT SEATED GATE VALVES.
5. A LOCATION WIRE SHALL BE 10 GAUGE, TYPE UF, SOLID CORE WIRE, AND SHALL BE LAYED EVERY 4 FT TO THE WATER MAIN. A LOOP OF LOCATION WIRE SHALL BE RUN TO THE SURFACE AT ALL HYDRANTS, WITH A "VALVE" BRACER WIRE TYPICAL.

**SANITARY SEWER NOTES:**

1. ALL SANITARY SEWERS SHALL BE 48" IN DIAMETER WITH A COVER, WITH-HOOKS, 1200 GASKET REINFORCED U/L, AND 2 CONGLOMERATE HOLES, NEMAN R-1500-A.
2. ALL SANITARY SEWER MAINS SHALL BE 8" DIAMETER PVC.
3. ALL SANITARY LATERALS AND RISERS SHALL BE 6" DIAMETER PVC AND LATERAL SLOPE @ 0.008 F/FT.
4. ALL SANITARY SEWER PIPES TO MANHOLE CONNECTIONS FOR PVC SHALL BE WITH AN APPROVED GASKET, WHETHER PIPE TO MANHOLE SEAL, "J" LOOP AND "CORE SEAL" OR APPROVED EQUAL SHALL BE USED.

**STORM SEWER NOTES:**

1. STORM SEWER PIPES INCLUDING CATCH BASIN LEADS, SHALL BE AT A MINIMUM CLASS II ASTM C-708 REINFORCED CONCRETE PIPE, 1200 SEWER PIPE SHALL HAVE RUBBER GASKETS AT ALL JOINTS.
2. ALL STORM MANHOLES SHALL BE 48" DIA. UNLESS OTHERWISE NOTED.
3. ALL STORM CURB CATCH BASINS SHALL HAVE A 12-INCH SWAMP.
4. INLET CASTING SHALL BE NEMAN R-324R-A, MANHOLE CASTING SHALL BE NEMAN R-1500-A, AND FIELD GRATES SHALL BE NEMAN R-434D.
5. SWAMP PUMP DISCHARGE LINES SHALL BE 6" PVC SCH-20 AND SHALL MAINTAIN 3 FEET OF COVER OVER PIPE.

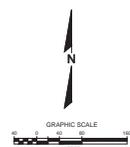
**BACKFILL NOTE:**

ALL TRENCHES SHALL BE BACKFILLED WITH GRANULAR BACKFILL AS SPECIFIED IN CHAPTER 8-04 OF STANDARD SPECIFICATIONS, BRIDGE DIVISION, ILLINOIS STATE ADMINISTRATIVE CODE, AND VILLAGE OF JACKSON ENGINEERING DEPARTMENT.

**NOTE:**

ALL WORK PERFORMED AND MATERIAL SUPPLIED SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN ILLINOIS, SIXTH EDITION, CHAPTER 8-04, BRIDGE DIVISION, ILLINOIS STATE ADMINISTRATIVE CODE, AND VILLAGE OF JACKSON ENGINEERING DEPARTMENT.

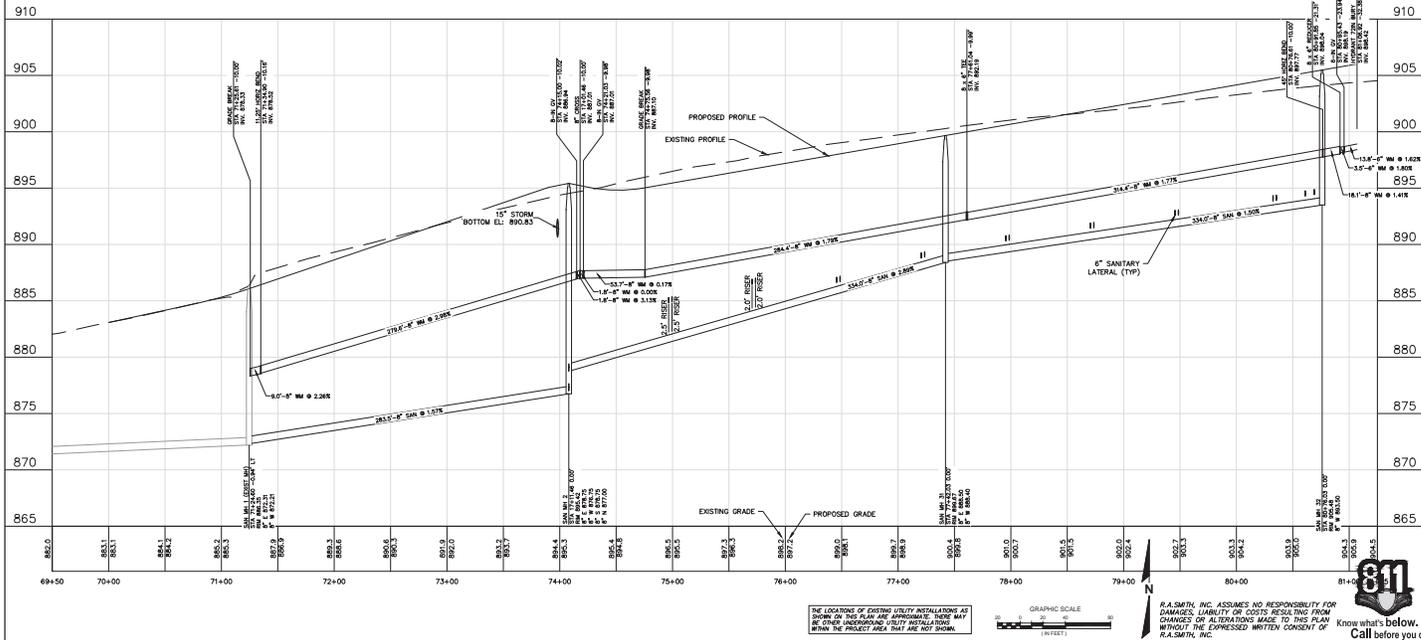
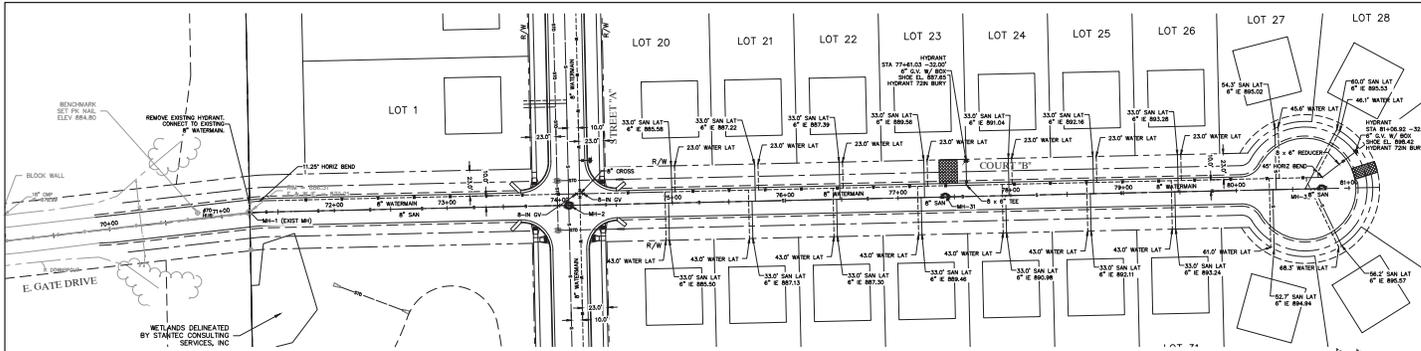
**THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.**



DESCRIPTION	DATE
10243 W. Milwaukee Road Brookfield, WI 53005-5278 (262) 791-1000 raSmith.com CREATED BY: RICHARD W. SMITH, P.E. DESIGNED BY: RICHARD W. SMITH, P.E. CHECKED BY: DANIEL J. HENKEL, P.E. PROJECT MANAGER: DANIEL J. HENKEL, P.E.	
<b>raSmith</b> CREATED BY: RICHARD W. SMITH, P.E. DESIGNED BY: RICHARD W. SMITH, P.E. CHECKED BY: DANIEL J. HENKEL, P.E. PROJECT MANAGER: DANIEL J. HENKEL, P.E.	
<b>MAPLEWOOD FARMS SUBDIVISION P1H VILLAGE OF JACKSON OVERALL UTILITY PLAN</b>	
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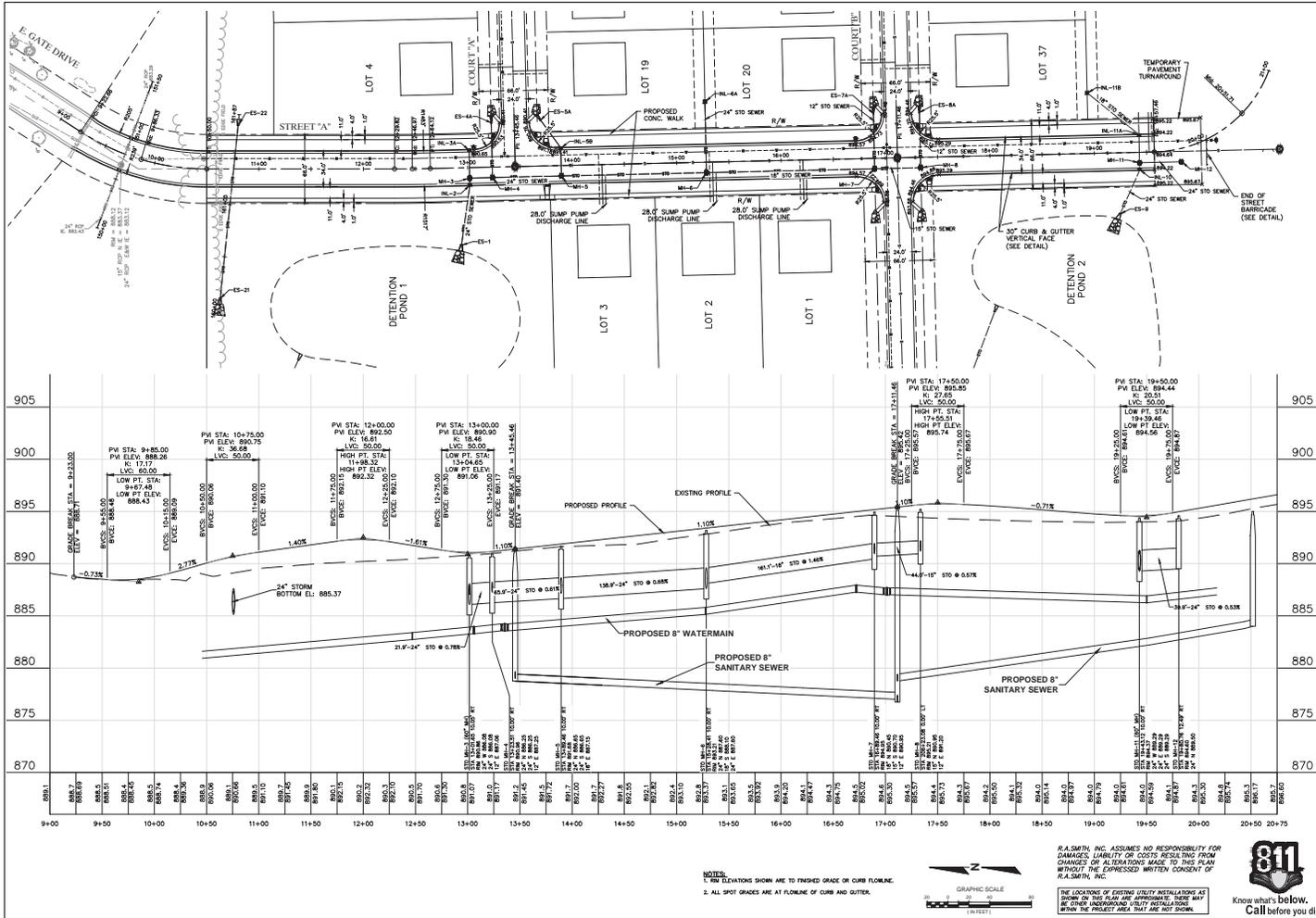
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10245 W. Memorial Blvd. Bonaville, VA 23005-9278 (802) 781-1000 ra.smith@ra-smith.com R.A. SMITH, INC. ENGINEERS 10245 W. Memorial Blvd., Suite 101, Bonaville, VA 23005-9278 10245 W. Memorial Blvd., Suite 101, Bonaville, VA 23005-9278	
<b>MAPLEWOOD FARMS SUBDIVISION PH1</b> <b>VILLAGE OF JACKSON</b> <b>SANITARY SEWER &amp; WATER MAIN</b> <b>PLAN AND PROFILE - COURT "B"</b>	
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DESCRIPTION	
DATE	
10245 W. Mainwood Blvd. Bonafide, WI 53005-9258 (262) 781-1000 www.rosmith.com	
ROBERT SMITH, P.E., REGISTERED PROFESSIONAL ENGINEER 10245 W. Mainwood Blvd., Suite 101, Bonafide, WI 53005-9258	
<b>MAPLEWOOD FARMS SUBDIVISION PH1</b> <b>VILLAGE OF JACKSON</b> <b>PAVING AND STORM SEWER</b> <b>PLAN AND PROFILE - STREET "A"</b>	
<b>PRELIMINARY</b> <b>NOT FOR</b> <b>CONSTRUCTION</b>	
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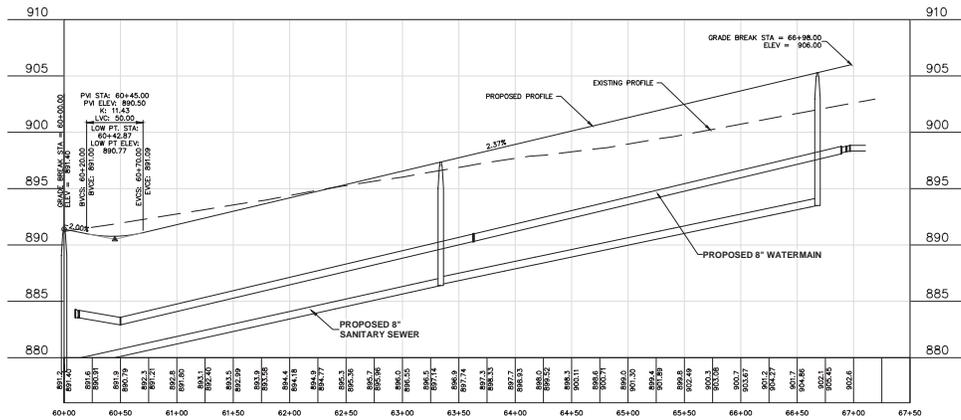
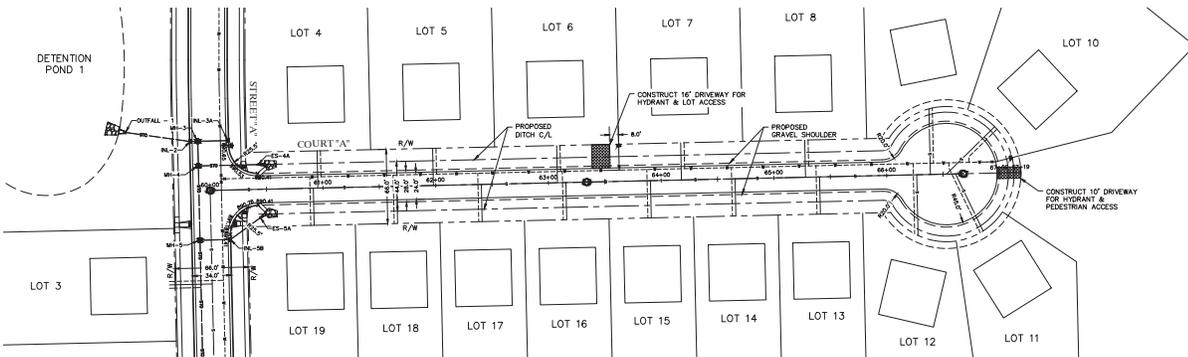
NOTES:  
 1. ALL ELEVATIONS SHOWN ARE TO FINISHED GRADE OR CURB FLOWLINE.  
 2. ALL SPOT GRADES ARE AT FLOWLINE OF CURB AND GUTTER.



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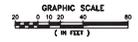
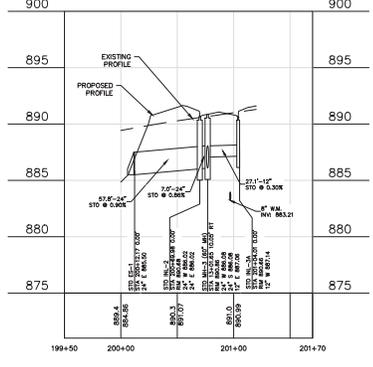
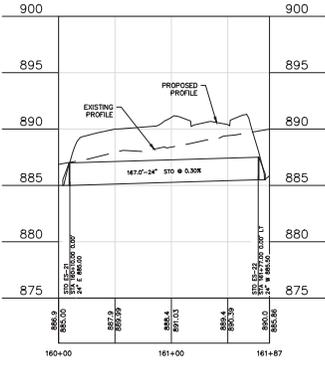
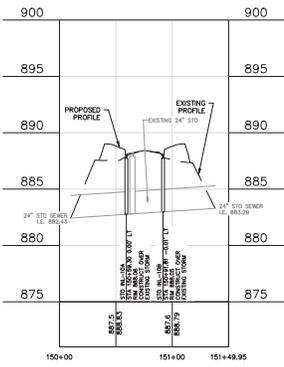
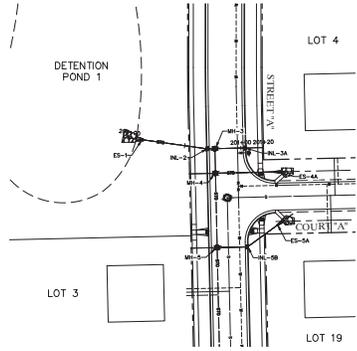
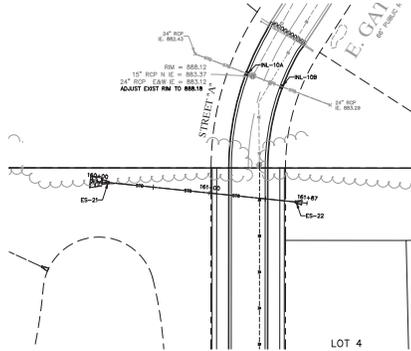
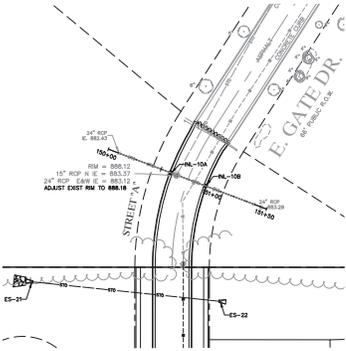
NOTES:  
 1. FIN ELEVATIONS SHOWN ARE TO FINISHED GRADE OR CURB FLOWLINE.  
 2. ALL SPOT GRADES ARE AT FLOWLINE OF CURB AND OUTLET.

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DATE	
 10245 W. Blumwood Blvd Bonaville, WI 53005-9298 (262) 781-1000 raSmith.com RICHARD A. SMITH, P.E., PROJECT MANAGER CHARLES D. HEDGA, P.E., DESIGNER 10245 W. Blumwood Blvd, Bonaville, WI 53005-9298	
<b>MAPLEWOOD FARMS SUBDIVISION PH I</b> <b>VILLAGE OF JACKSON</b> <b>PAVING &amp; STORM SEWER</b> <b>PLAN AND PROFILE - COURT "A"</b>	
<b>PRELIMINARY</b> <b>NOT FOR</b> <b>CONSTRUCTION</b>	
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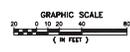
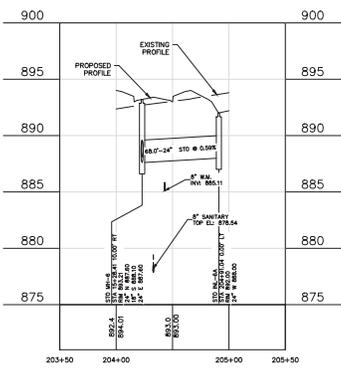
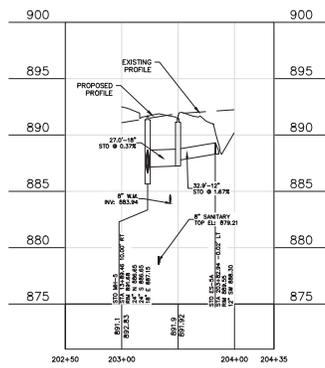
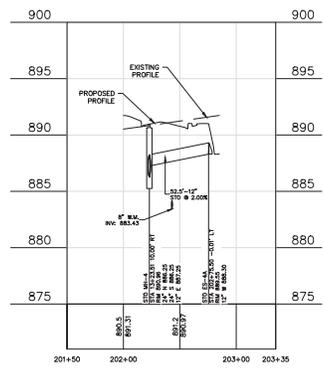
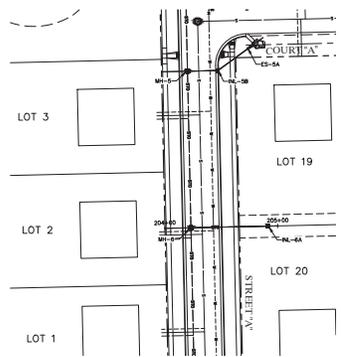
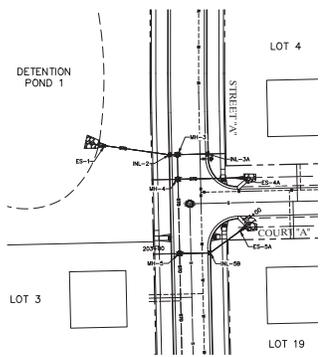
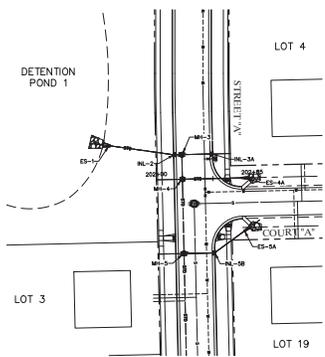




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<b>MAPLEWOOD FARMS SUBDIVISION PH1</b> <b>VILLAGE OF JACKSON</b> <b>STORM SEWER CROSSINGS</b> <b>PLAN AND PROFILE</b>	
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© COPYRIGHT 2019 R.A. SMITH, INC. DATE: 05/23/2019 SCALE: 1" = 40' JOB NO. 3180088 PROJECT MANAGER: CHRIS D. HEDIN, P.E. DESIGNED BY: CMJ CHECKED BY: DJW SHEET NUMBER <b>C303</b>	



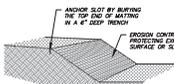
THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AT COVER ON THIS PLAN ARE APPROXIMATE. THERE MAY BE OTHER UNDISCOVERED UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

R.A. SMITH, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF R.A. SMITH, INC.

DESCRIPTION	
DATE	
 10245 W. Blomwood Blvd Brookfield, WI 53005-5258 (262) 781-1000 raSmith@a.com ROUNDTOP, WISCONSIN 53090, ILLINOIS 61820, CALIFORNIA 95620 NEWYORK, WISCONSIN 53090, WISCONSIN 53090, ILLINOIS 61820, CALIFORNIA 95620	
<b>MAPLEWOOD FARMS SUBDIVISION PH1</b> <b>VILLAGE OF JACKSON</b> <b>STORM SEWER CROSSINGS</b> <b>PLAN AND PROFILE</b>	
<b>PRELIMINARY</b> <b>NOT FOR</b> <b>CONSTRUCTION</b>	
© COPYRIGHT 2019 R.A. SMITH, INC. DATE: 05/23/2019 SCALE: 1" = 40' JOB NO. 3180088 PROJECT MANAGER: CHRIS D. HEDGA, P.E. DESIGNED BY: CMJ CHECKED BY: DJW SHEET NUMBER <b>C304</b>	



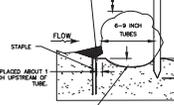




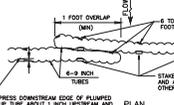
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(NOT TO SCALE)



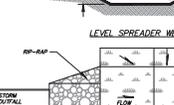
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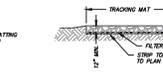
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(NOT TO SCALE)



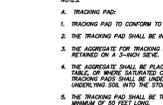
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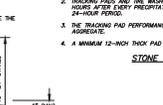
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(NOT TO SCALE)



**SILT FENCE DETAIL**  
(NOT TO SCALE)



**SILT FENCE DETAIL**  
(NOT TO SCALE)



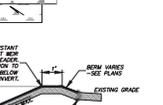
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(NOT TO SCALE)



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(NOT TO SCALE)



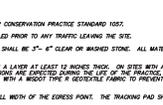
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(NOT TO SCALE)



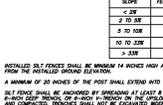
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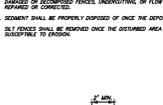
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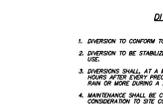
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**SILT FENCE DETAIL**  
(NOT TO SCALE)



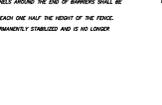
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(NOT TO SCALE)



**SILT FENCE DETAIL**  
(NOT TO SCALE)



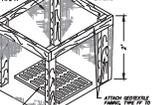
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(NOT TO SCALE)



**SILT FENCE DETAIL**  
(NOT TO SCALE)



**SILT FENCE DETAIL**  
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**SILT FENCE DETAIL**  
(NOT TO SCALE)



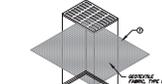
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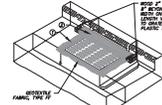
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(NOT TO SCALE)



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(NOT TO SCALE)



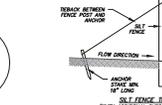
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(NOT TO SCALE)



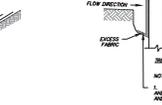
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(NOT TO SCALE)



**SILT FENCE DETAIL**  
(NOT TO SCALE)



**SILT FENCE DETAIL**  
(NOT TO SCALE)



**SILT FENCE DETAIL**  
(NOT TO SCALE)



**SILT FENCE DETAIL**  
(NOT TO SCALE)



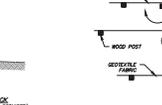
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(NOT TO SCALE)



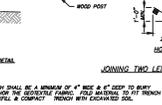
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(NOT TO SCALE)



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(NOT TO SCALE)



**SILT FENCE DETAIL**  
(NOT TO SCALE)



**SILT FENCE DETAIL**  
(NOT TO SCALE)



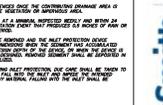
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(NOT TO SCALE)



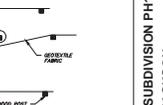
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(NOT TO SCALE)



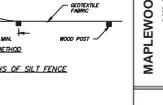
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(NOT TO SCALE)



**SILT FENCE DETAIL**  
(NOT TO SCALE)



**SILT FENCE DETAIL**  
(NOT TO SCALE)



**SILT FENCE DETAIL**  
(NOT TO SCALE)



**SILT FENCE DETAIL**  
(NOT TO SCALE)

DESCRIPTION

DATE

100245 by Michael Reid  
Revised: 06/13/2019  
Scale: 1/8" = 1'-0"

**roSmith**  
CONSTRUCTION SERVICES

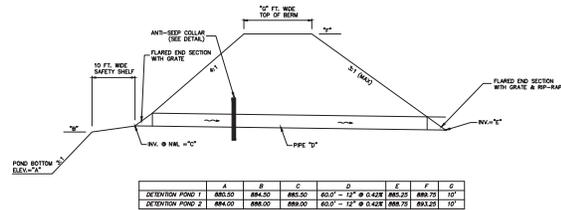
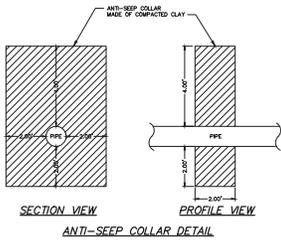
100245 by Michael Reid  
Revised: 06/13/2019  
Scale: 1/8" = 1'-0"

MAPLEWOOD FARMS SUBDIVISION PH1  
VILLAGE OF JACKSON  
EROSION CONTROL DETAILS

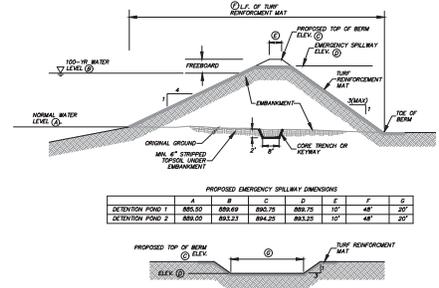
PRELIMINARY  
NOT FOR  
CONSTRUCTION

© COPYRIGHT 2019  
R. SMITH, INC.  
DATE: 05/23/2019  
SCALE: 1/8" = 1'-0"  
JOB NO. 18100088  
PROJECT MANAGER:  
CHRIS D. HECK, P.E.  
DESIGNED BY: CMJ  
CHECKED BY: DJW  
SHEET NUMBER  
C400

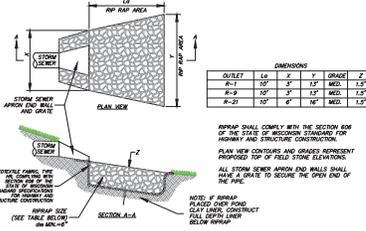




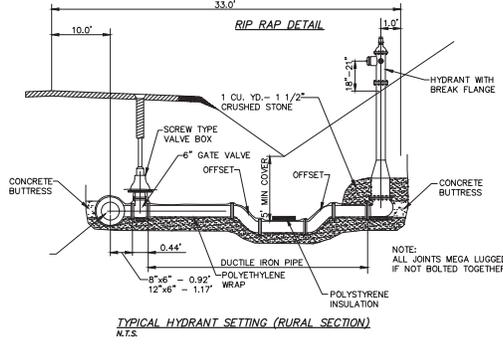
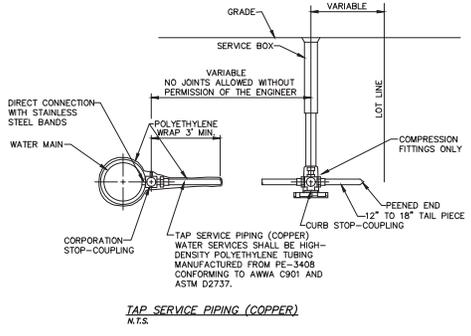
	A	B	C	D	E	F	G
DETENTION POND 1	885.50	884.50	883.50	63.0' - 12" @ 0.42%	883.25	883.25	10'
DETENTION POND 2	884.00	883.00	882.00	63.0' - 12" @ 0.42%	881.75	881.75	10'



	A	B	C	D	E	F	G
DETENTION POND 1	885.50	884.50	883.50	63.0' - 12" @ 0.42%	883.25	883.25	10'
DETENTION POND 2	884.00	883.00	882.00	63.0' - 12" @ 0.42%	881.75	881.75	10'



OUTLET	LG	X	Y	GRADE	Z
R-1	10'	3'	12'	883.1	1.5'
R-2	10'	3'	12'	882.1	1.5'
R-21	10'	6'	16'	881.1	1.5'



R.S.MITH, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF R.S.MITH, INC.

DESCRIPTION

DATE

100345 W. Milwaukee Road  
Boscawen, WI 53005-9278  
(262) 781-1000  
rsmith@rsmith.com

**rsmith**  
CONSULTING ENGINEERS

100345 W. Milwaukee Road  
Boscawen, WI 53005-9278  
(262) 781-1000  
rsmith@rsmith.com

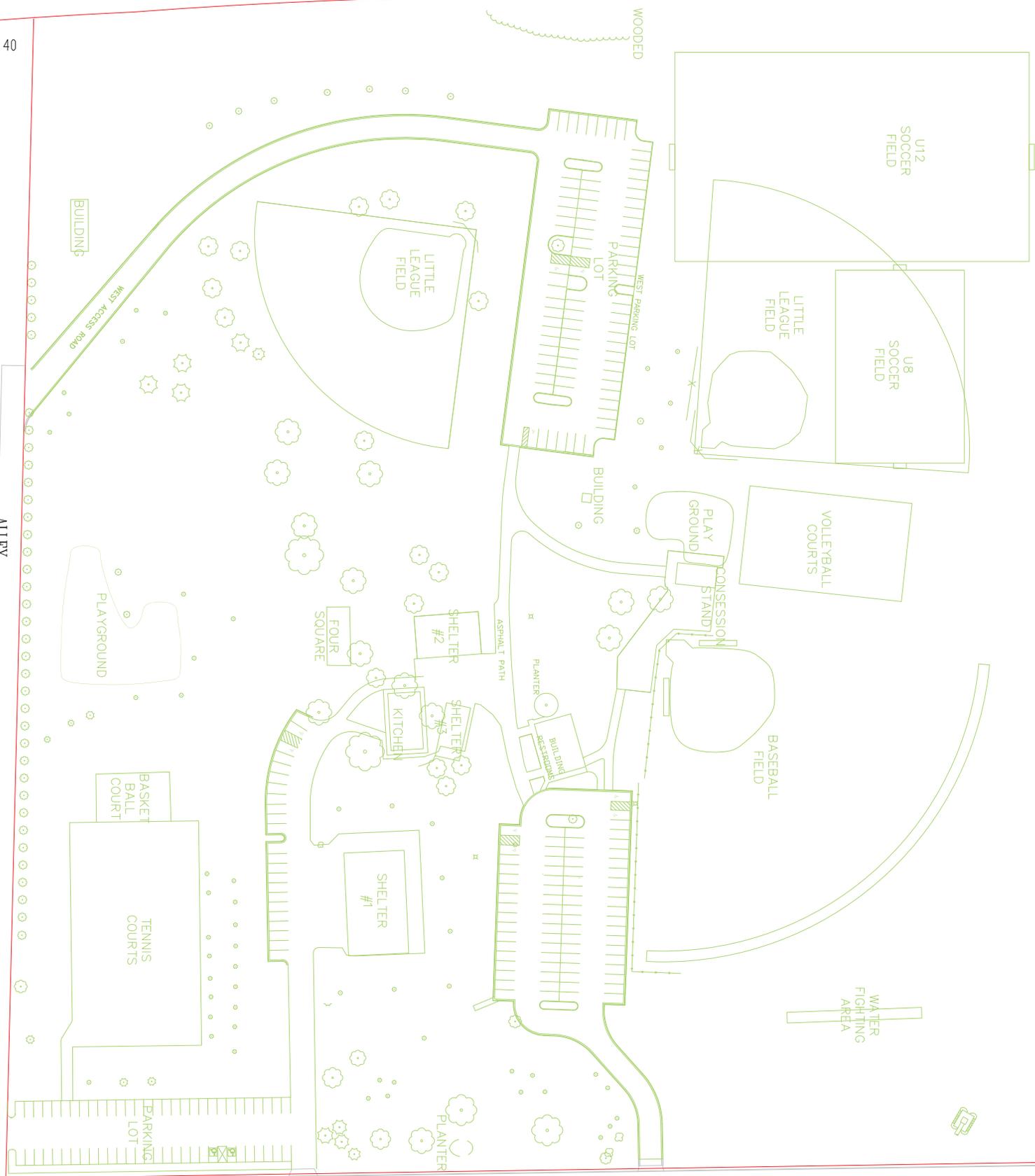
MAPLEWOOD FARMS SUBDIVISION PH1  
VILLAGE OF JACKSON  
UTILITY DETAILS

PRELIMINARY  
NOT FOR  
CONSTRUCTION

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R.S. SMITH, INC.  
DATE: 05/23/2019  
SCALE: N.T.S.  
JOB NO. 3180088  
PROJECT MANAGER:  
CHRIS D. HELEN, P.E.  
DESIGNED BY: CMJ  
CHECKED BY: DJW  
SHEET NUMBER

C402





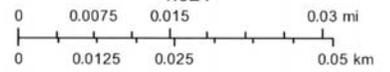
# Washington County GIS



May 24, 2019

1:924

- Trails
- ⊕ PLS Monument
- Road Centerline I, USH
- Road Centerline STH, CTH
- Meander Line
- Lot
- Public Open Spaces
- Road Centerline TWN, CVS, PVT
- PLS Boundary
- Landhook
- Plat
- Current Parcel



Washington County  
Washington County, Wisconsin





**dirpubwks@villageofjackson.com**

---

**From:** Mark Lange <mark@langeenterprises.com>  
**Sent:** Friday, May 17, 2019 9:11 AM  
**To:** Brian Kober  
**Subject:** Wayfinding Signs  
**Attachments:** SKM\_C224e19051709420.pdf

Brian,

Here is what the 30" wide signs would look like (see attached).

4 – 30x24: \$98.60ea

1 – 30x30: \$158.00

1 – 30x42: \$178.50

2 – 30x60: \$235.10ea

\*all signs plasma cut on .125 aluminum using 3M HIP sheeting

Colors to be determined

Thanks,

*Mark Lange*



*Quality Products and Services Since 1953!*

1131 W. Second St. • P.O. Box 4 • Oconomowoc, WI 53066 • 800-242-3126

[www.911signs.com](http://www.911signs.com)

DESIGNER: CR  
SAVED AS: WI-VILLAGE OF JACKSON-  
PUBLIC WORKS-3024  
COLOR: BLACK ON WHITE  
ON BLUE ON RED

DATE: 4-25-19  
SIZE: 30X24  
SHEETING: HIP  
SALES REP: LANGE

CUSTOMER APPROVAL \_\_\_\_\_

30 in

24 in



Public Works →

3.25" B

DESIGNER: CR

SAVED AS: WI-VILLAGE OF JACKSON-

JACKSON PRK ETC-3024

COLOR: BLACK ON WHITE

ON BLUE ON RED

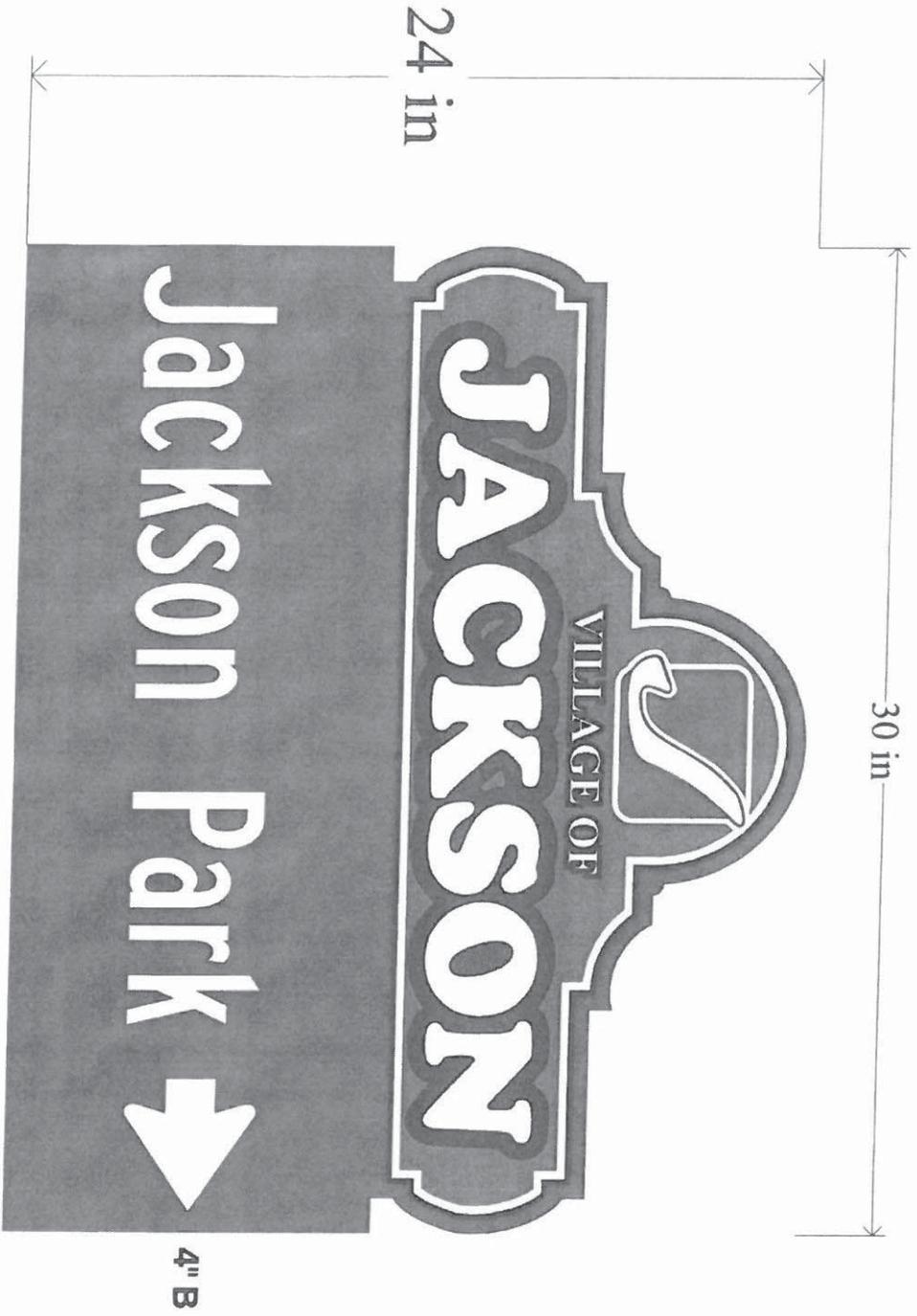
DATE: 4-25-19

SIZE: 30X42

SHEETING: HIP

SALES REP: LANGE

CUSTOMER APPROVAL \_\_\_\_\_



DESIGNER: CR

SAVED AS: WI-VILLAGE OF JACKSON-

LODGING ETC-3024

COLOR: BLACK ON WHITE

ON BLUE ON RED

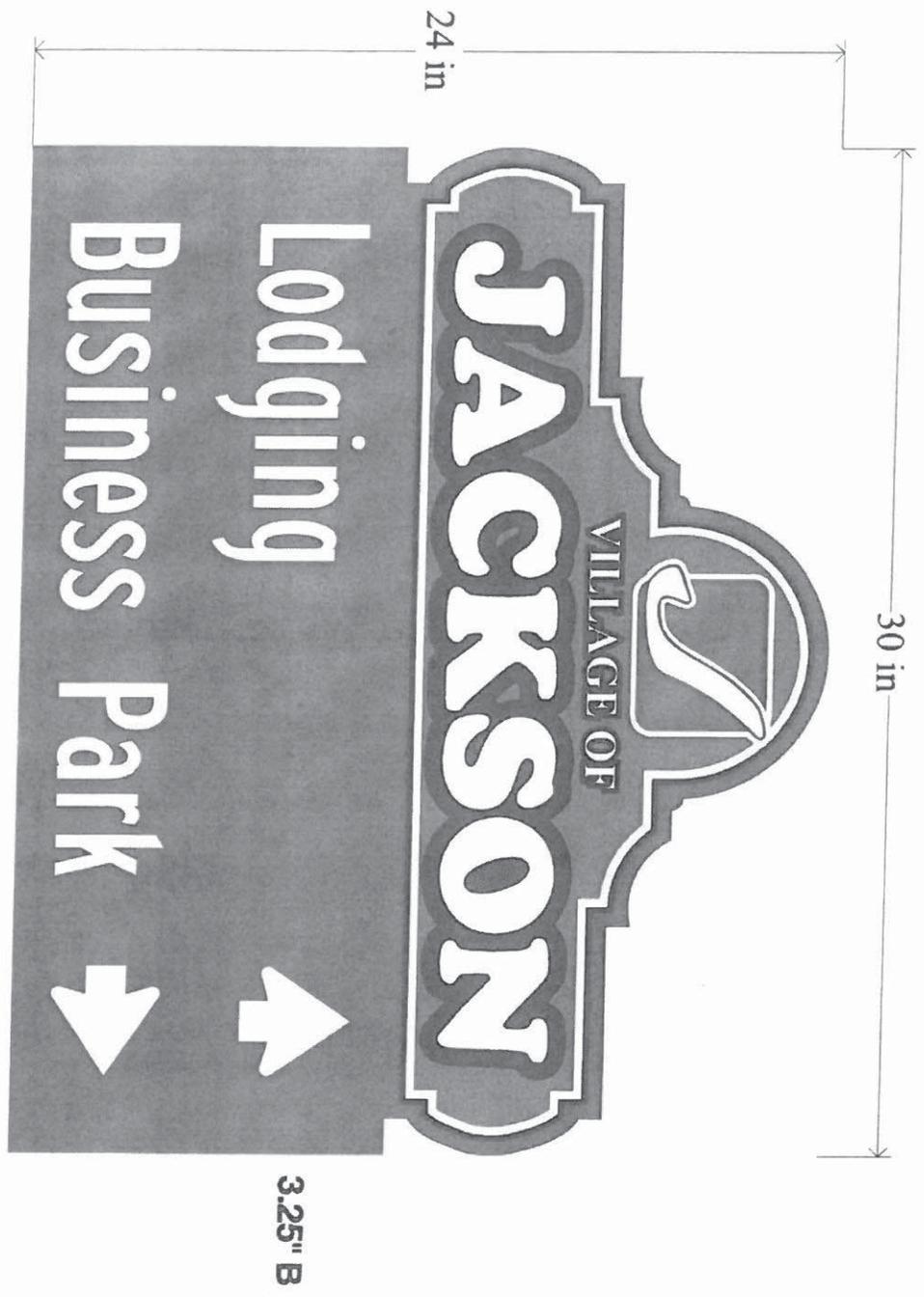
DATE: 4-25-19

SIZE: 30X24

SHEETING: HIP

SALES REP: LANGE

CUSTOMER APPROVAL \_\_\_\_\_



DESIGNER: CR

SAVED AS: WI-VILLAGE OF JACKSON-

LODGING ETC 2-3024

COLOR: BLACK ON WHITE  
ON BLUE ON RED

DATE:

4-25-19

SIZE:

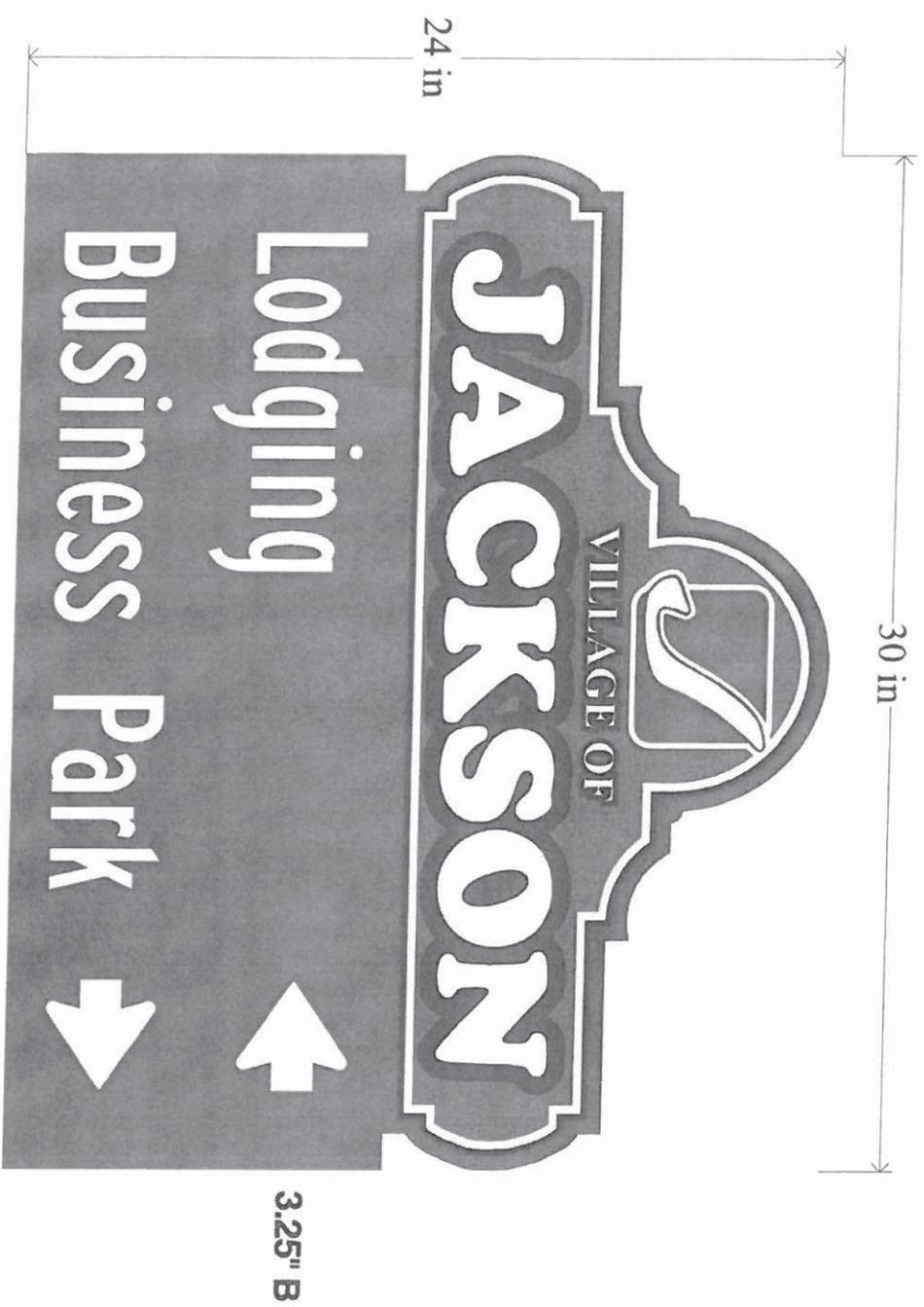
30X24

SHEETING:

HIP

SALES REP: LANGE

CUSTOMER APPROVAL \_\_\_\_\_



30 in

24 in

3.25" B

DESIGNER: CR  
SAVED AS: WI-VILLAGE OF JACKSON-  
BUSINESS ETC-3030  
COLOR: BLACK ON WHITE  
ON BLUE ON RED

DATE: 4-25-19  
SIZE: 30X30  
SHEETING: HIP  
SALES REP: LANGE

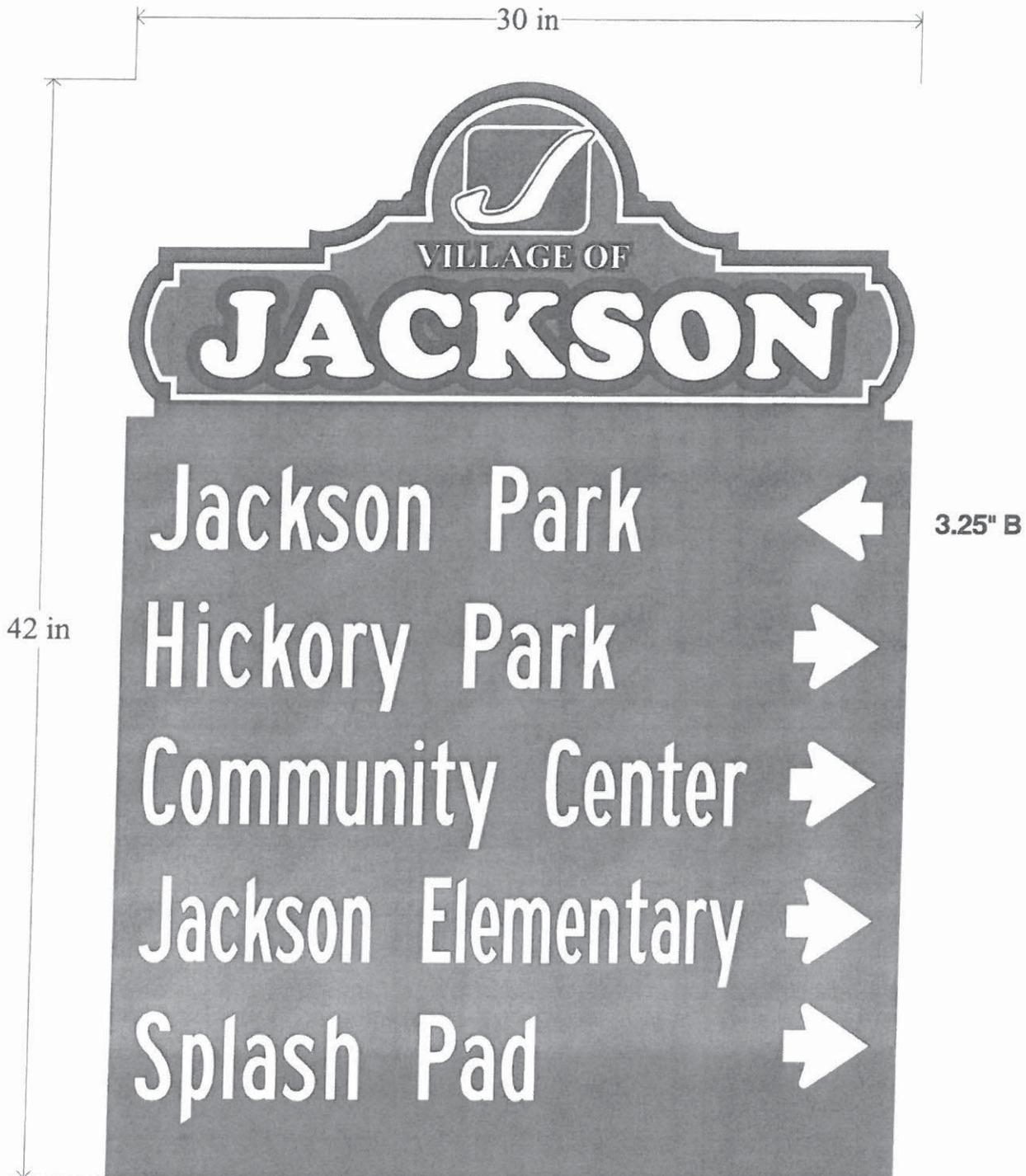
CUSTOMER APPROVAL \_\_\_\_\_



DESIGNER: CR  
SAVED AS: WI-VILLAGE OF JACKSON-  
JACKSON PRK ETC-3042  
COLOR: BLACK ON WHITE  
ON BLUE ON RED

DATE: 4-25-19  
SIZE: 30X42  
SHEETING: HIP  
SALES REP: LANGE

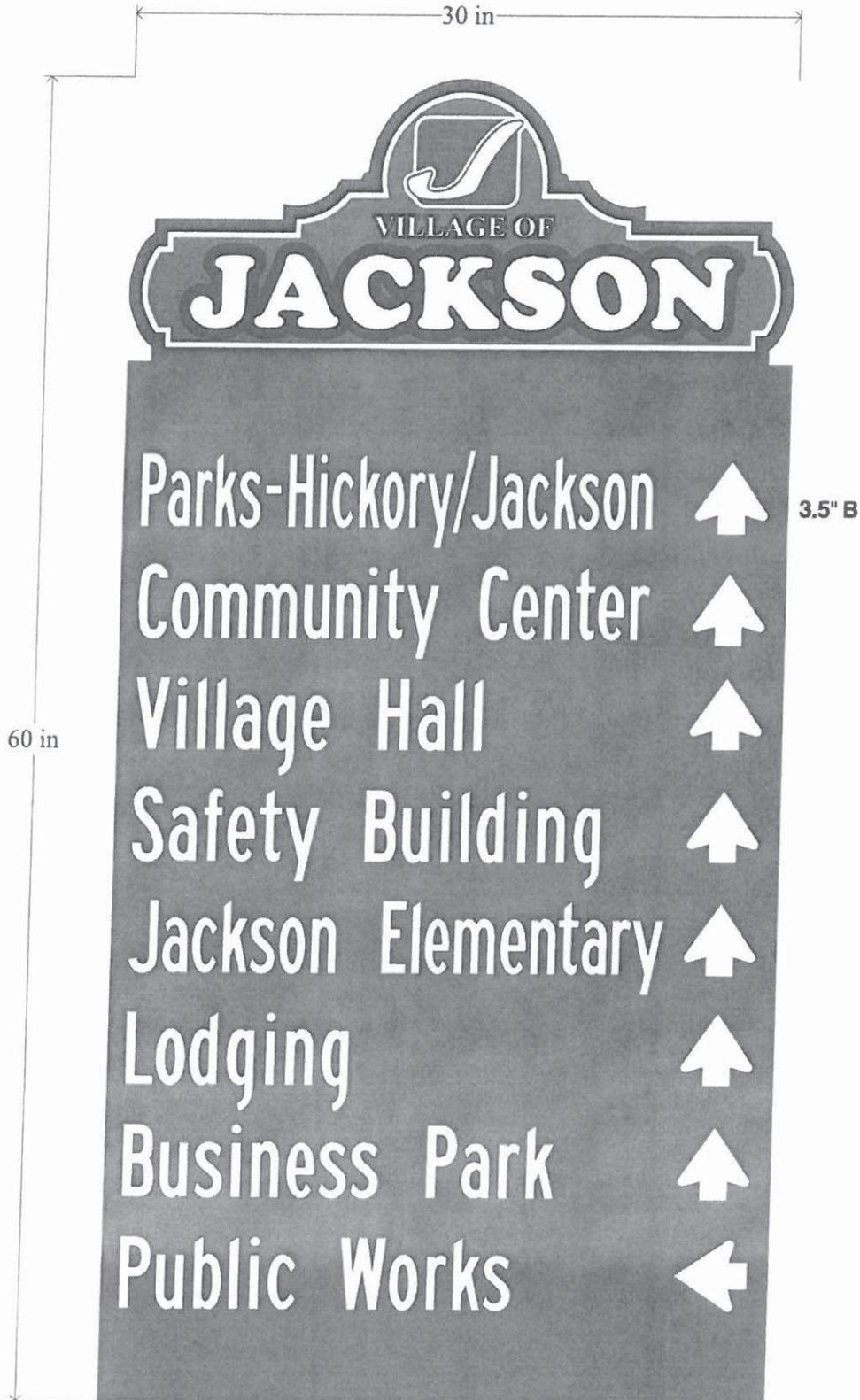
CUSTOMER APPROVAL \_\_\_\_\_



DESIGNER: CR  
SAVED AS: WI-VILLAGE OF JACKSON-  
PARKS HICKORY ETC-3060  
COLOR: BLACK ON WHITE  
ON BLUE ON RED

DATE: 4-25-19  
SIZE: 30X60  
SHEETING: HIP  
SALES REP: LANGE

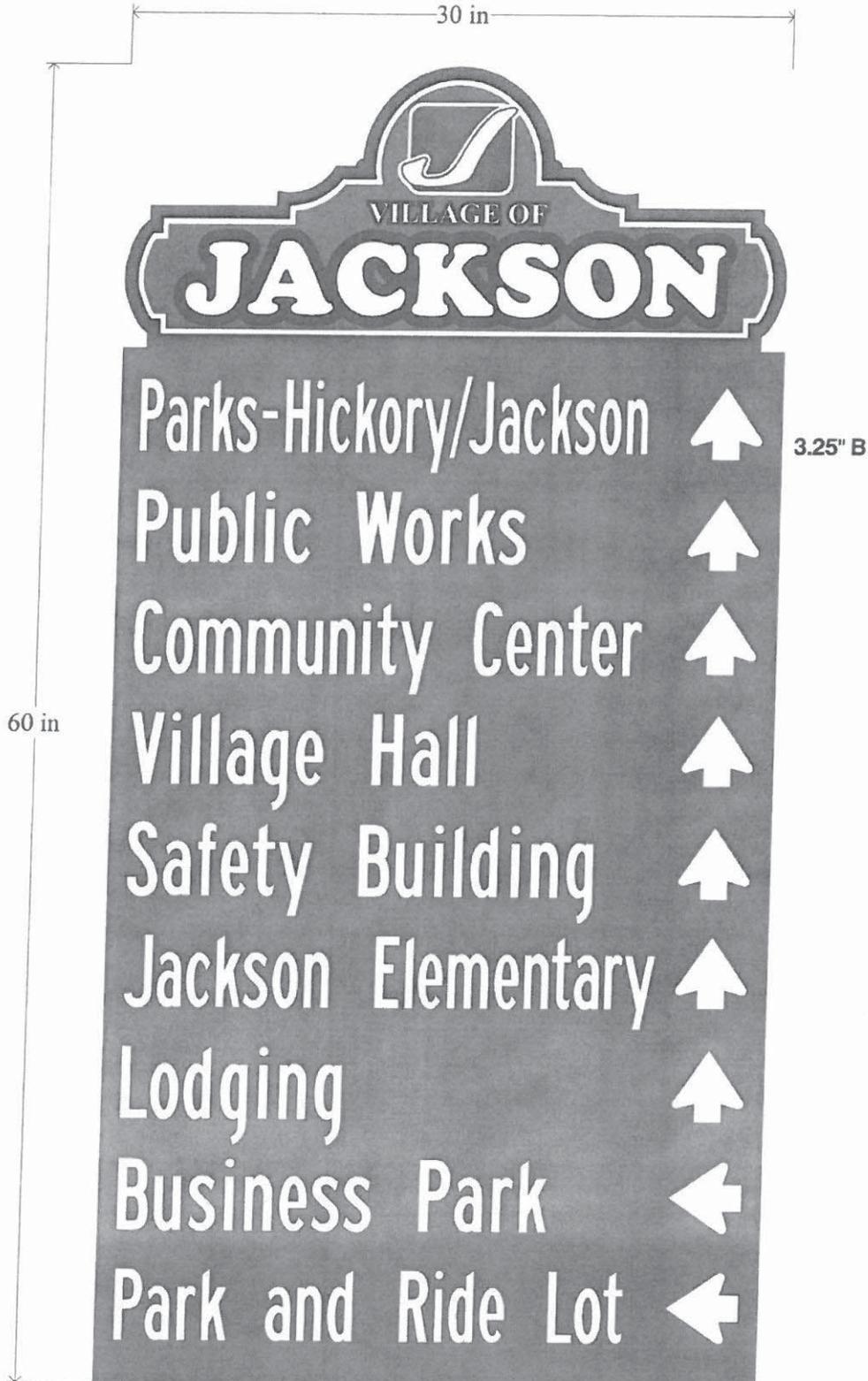
CUSTOMER APPROVAL \_\_\_\_\_



DESIGNER: CR  
SAVED AS: WI-VILLAGE OF JACKSON-  
PARKS ETC-3060  
COLOR: BLACK ON WHITE  
ON BLUE ON RED

DATE: 4-25-19  
SIZE: 30x60  
SHEETING: HIP  
SALES REP: LANGE

CUSTOMER APPROVAL \_\_\_\_\_



# Public Works Report

May 28, 2019

**Treatment Plant -**     Designed Capacity – 1.67 million gallons per day  
   *Peak Flow Capacity – 6.0 million gallons per day*

## Year 2017

January	Avg. Flow 1.230 MGD	Min. Flow 979,000 g.p.d.	Max. 1.606 MGD
February	Avg. Flow 1.204 MGD	Min. Flow 926,000 g.p.d.	Max. 2.141 MGD
March	Avg. Flow 1.559 MGD	Min. Flow 1.09 MGD	Max. 2.398 MGD
April	Avg. Flow 1.552 MGD	Min. Flow 1.049 MGD	Max. 2.446 MGD
May	Avg. Flow 1.392 MGD	Min. Flow 666,000 g.p.d.	Max. 2.588 MGD
June	Avg. Flow 1.283 MGD	Min. Flow 763,000 g.p.d.	Max. 2.429 MGD
July	Avg. Flow 1.225 MGD	Min. Flow 879,000 g.p.d.	Max. 1.711 MGD
August	Avg. Flow 1.049 MGD	Min. Flow 750,000 g.p.d.	Max. 1.414 MGD
September	Avg. Flow 870,300 g.p.d.	Min Flow 714,000 g.p.d.	Max. 1.132 MGD
October	Avg. Flow 953,871 g.p.d.	Min. Flow 563,000 g.p.d.	Max. 1.257 MGD
November	Avg. Flow 886,967 g.p.d.	Min. Flow 729,000 g.p.d.	Max. 1,154 MGD
December	Avg. Flow 835,484 g.p.d.	Min. Flow 651,000 g.p.d.	Max. 1.074 MGD

## Year 2018

January	Avg. Flow 893,258 g.p.d.	Min. Flow 693,000 g.p.d.	Max. 1.541 MGD
February	Avg. Flow 1.072 MGD	Min. Flow 651,000 g.p.d.	Max. 2.476 MGD
March	Avg. Flow 1.011 MGD	Min. Flow 702,000 g.p.d.	Max. 1.365 MGD
April	Avg. Flow		
May	Avg. Flow 1.577 MGD	Min. Flow 982,000 g.p.d.	Max. 2.807 MGD
June	Avg. Flow 1.053 MGD	Min. Flow 703,000 g.p.d.	Max. 1.422 MGD
July	Avg. Flow 942,871 g.p.d.	Min. Flow 699,000 g.p.d.	Max. 1.228 MGD
August	Avg. Flow 1.342 MGD	Min. Flow 700,000 g.p.d.	Max. 3.93 MGD
September	Avg. Flow 1.608 MGD	Min. Flow 1.07 MGD	Max. 3.47 MGD
October	Avg. Flow 1.540 MGD	Min. Flow 960,000 g.p.d.	Max. 2.67 MGD
November	Avg. Flow 1.268 MGD	Min. Flow 940,000 g.p.d.	Max. 2.12 MGD
December	Avg. Flow 1.218 MGD	Min. Flow 880,000 g.p.d.	Max. 1.82 MGD

## Year 2019

January	Avg. Flow 1.270 MGD	Min. Flow 900,000 g.p.d.	Max. 2.660 MGD
February	Avg. Flow 1.229 MGD	Min. Flow 850,000 g.p.d.	Max. 1.980 MGD
March	Avg. Flow 1.379 MGD	Min. Flow 910,000 g.p.d.	Max. 2.790 MGD
April	Avg. Flow 1.483 MGD	Min. Flow 1.020 MGD	Max. 2.660 MGD

## Years Summary of Water Consumption

2006 Total Pumpage 207,719,000 gallons	2007 Total Pumpage 217,224,000 gallons
2008 Total Pumpage 229,613,000 gallons	2009 Total Pumpage 231,160,000 gallons
2010 Total Pumpage 239,326,000 gallons	2011 Total Pumpage 240,268,000 gallons
2012 Total Pumpage 253,492,000 gallons	2013 Total Pumpage 228,371,000 gallons
2014 Total Pumpage 230,973,000 gallons	2015 Total Pumpage 222,621,000 gallons
2016 Total Pumpage 254,531,000 gallons	2017 Total Pumpage 251,387,000 gallons

### Year 2017

Jan.	Avg.	630,710 g.p.d.	Highest Day 771,000 gals.	Total	19,552,000 gallons
Feb.	Avg.	640,790 g.p.d.	Highest Day 885,000 gals	Total	17,942,000 gallons
March	Avg.	611,520 g.p.d.	Highest Day 691,000 gals	Total	18,957,000 gallons
April	Avg.	703,070 g.p.d.	Highest Day 1.173 MGD	Total	21,092,000 gallons
May	Avg.	683,420 g.p.d.	Highest Day 988,000 gals	Total	21,186,000 gallons
June	Avg.	762,230 g.p.d.	Highest Day 1.044 MGD	Total	22,867,000 gallons
July	Avg.	730,580 g.p.d.	Highest Day 953,000 gals	Total	22,648,000 gallons
August	Avg.	745,900 g.p.d.	Highest Day 903,000 gals	Total	23,123,000 gallons
Sept	Avg.	738,170 g.p.d.	Highest Day 996,000 gals	Total	22,145,000 gallons
Oct	Avg.	716,100 g.p.d.	Highest Day 1.055 MGD	Total	22,199,000 gallons
Nov	Avg.	646,500 g.p.d.	Highest Day 783,000 gals	Total	19,395,000 gallons
Dec	Avg.	654,230 g.p.d.	Highest Day 754,000 gals.	Total	20,281,000 gallons

### Year 2018

Jan.	Avg.	674,710 g.p.d.	Highest Day 831,000 gals.	Total	20,916,000 gallons
Feb.	Avg.	660,820 g.p.d.	Highest Day 762,000 gals.	Total	18,503,000 gallons
March	Avg.	646,810 g.p.d.	Highest Day 784,000 gals.	Total	20,051,000 gallons
April	Avg.	656,300 g.p.d.	Highest Day 1.122 MGD	Total	19,689,000 gallons
May	Avg.	682,065 g.p.d.	Highest Day 840,000 gals.	Total	21,144,000 gallons
June	Avg.	694,600 g.p.d.	Highest Day 891,000 gals.	Total	20,838,000 gallons
July	Avg.	759,160 g.p.d.	Highest Day 1.172 MGD	Total	23,534,000 gallons
August	Avg.	728,450 g.p.d.	Highest Day 963,000 gals.	Total	22,582,000 gallons
Sept	Avg.	605,200 g.p.d.	Highest Day 842,000 gals.	Total	18,156,000 gallons
Oct	Avg.	619,320 g.p.d.	Highest Day 896,000 gals.	Total	19,199,000 gallons

### Year 2019

Jan.	Avg.	638,230 g.p.d.	Highest Day 791,000 gals.	Total	19,785,000 gallons
Feb.	Avg.	605,820 g.p.d.	Highest Day 758,000 gals.	Total	16,963,000 gallons
March	Avg.	616,230 g.p.d.	Highest Day 946,000 gals.	Total	19,103,000 gallons
April	Avg.	697,800 g.p.d.	Highest Day 1.112 MGD	Total	20,934,000 gallons

**Pump Capacity** - Well #1- 400 g.p.m. Well #3 -900 g.p.m. Well #4 - 1200 g.p.m. Well #5 – 1,100 g.p.m. Well #6 – 800 g.p.m.

**WWTP – Holding & Septage Receiving**

<b>2005</b>	\$ 87,562.01	<b>2006</b>	\$101,115.11	<b>2007</b>	\$152,201.07	<b>2008</b>	\$210,441.47
<b>2009</b>	\$183,815.34	<b>2010</b>	\$197,653.66	<b>2011</b>	\$220,576.28	<b>2012</b>	\$236,224.70
<b>2013</b>	\$235,336.46	<b>2014</b>	\$203,938.32	<b>2015</b>	\$210,644.47	<b>2016</b>	\$220,473.17
<b>2017</b>	\$232,358.23	<b>2018</b>	\$245,767.74				

<b>2017</b>	<b>Holdings (gals)</b>	<b>Grease (gals)</b>	<b>G Decant (gals)</b>	<b>Septage (gals)</b>	<b>S Decant (gals)</b>	<b>Total Billings</b>
Jan	1,287,450			10,500	57,100	\$11,503.39
Feb	1,358,400		28,500	1,750	78,550	\$13,361.76
March	1,678,850		22,000	28,100	174,900	\$18,967.89
April	1,581,350			35,600	320,900	\$21,306.63
May	1,745,550			51,150	394,600	\$25,002.63
June	1,664,600			38,700	321,950	\$22,081.26
July	1,599,070			33,100	230,150	\$19,070.78
August	1,669,850			35,100	273,850	\$20,774.14
September	1,430,000			37,350	248,125	\$18,422.13
October	1,710,550			64,200	454,850	\$26,768.38
November	1,541,700			50,150	353,050	\$22,395.00
December	1,174,400			13,700	127,250	\$12,539.26

<b>2018</b>	<b>Holdings (gals)</b>	<b>Grease (gals)</b>	<b>G Decant (gals)</b>	<b>Septage (gals)</b>	<b>S Decant (gals)</b>	<b>Total Billings</b>
Jan	1,627,400			2,250	70,400	\$14,055.51
Feb	1,632,750			1,750	69,850	\$14,061.88
March	1,589,150			6,450	197,600	\$17,943.45
April	1,451,750			16,750	234,400	\$18,227.75
May	1,849,700			21,050	354,100	\$24,597.35
June	1,636,850			38,900	351,450	\$23,631.55
July	1,662,650			37,150	230,750	\$20,741.70
August	1,861,850			58,650	315,400	\$25,419.05
September	1,510,000			37,000	249,500	\$19,982.50
October	1,676,000			38,000	462,900	\$26,690.50
November	1,433,250			29,500	397,100	\$22,721.00
December	1,481,500			13,550	209,350	\$17,695.50

<b>2019</b>	<b>Holdings (gals)</b>	<b>Grease (gals)</b>	<b>G Decant (gals)</b>	<b>Septage (gals)</b>	<b>S Decant (gals)</b>	<b>Total Billings</b>
Jan	1,230,000			2,000	77,700	\$11,872.50
Feb	1,432,250			1,000	70,100	\$13,255.50
March	1,614,450			11,750	161,800	\$17,489.35
April	1,485,950			48,700	335,350	\$22,462.85

### **Rosewood Drive/TIF Expansion Project**

The Rosewood Lane Project has landscaping being the last items to complete for the south side of the road. The northside of Rosewood Lane has a concept plan approved for a 72-unit apartment development. The Village is working with We-Energies on the electric system to be placed underground. Once, the location of electric transforms are determined a streetlight layout will be design, and bid out for installation. No change.

### **Cedar Creek Farmers Group**

The Jackson Sewer Utility has been partnering with the Cedar Creek Farmers Group to achieve better water quality in the Cedar Creek Watershed. Plans are being made to have an urban/rural outreach field Day in September 2019. Healthy soils, cover crops, no-till, nutrient management, water test kits, and yard waste bags to Village residents will be some the events. The safety building property has been planted with cover crop for the event.

### **CTH P and STH 60 Intersection Project and old Park-n-Lot Property**

Discussion continues with Washington County and WisDOT on ownership. WisDOT has been contacted and a new WisDOT representative will be assigned to the project for completion.

### **Ridgeway Drive Reconstruction Project**

Landscaping retainage to complete the project. A walk though and a new punch list was done on May 21<sup>st</sup>. Weather is the only thing holding the project back for completion.

### **Maplewood Farms**

The Plan Commission has recommended approval, and the Board of Public Works is reviewing the Utility plans. The Development Agreement is being created for a Village Board approval on June 11<sup>th</sup>. The Developer is planning on starting sometime mid-June.

### **Cobblestone Meadows Development**

The Village has approved the final plat for the development. Erosion control will need to be revisited. We should start to see single family homes being constructed in the next month. Weather is not helping the start of home construction.

### **Laurel Springs Addition No. 1**

The Developer is proposing to do the development in one phase. Jackson Drive and Cedar Creek Road improvements will be completed this year. The Development Agreement is being completed with a possible approval at the June 11<sup>th</sup> Village Board Meeting. The Development might start mid-June.

### **Public Works New Salt Building**

The 2018/2019 salt has been received and stored in the new building.

### **Yard Waste Drop-off Site**

A second fence quote is being requested. A second asphalt has been received. Waiting for site to dry out so grading can start.

### **Hickory Park New Playground Project**

The rubber surface is being installed. Due to the construction, we will not open the splash pad until the playground is finished.

### **Safety Building/Village Hall Project**

TIF District is being created along with utility and building plans being completed.

Respectfully submitted, Brian W. Kober, P.E.