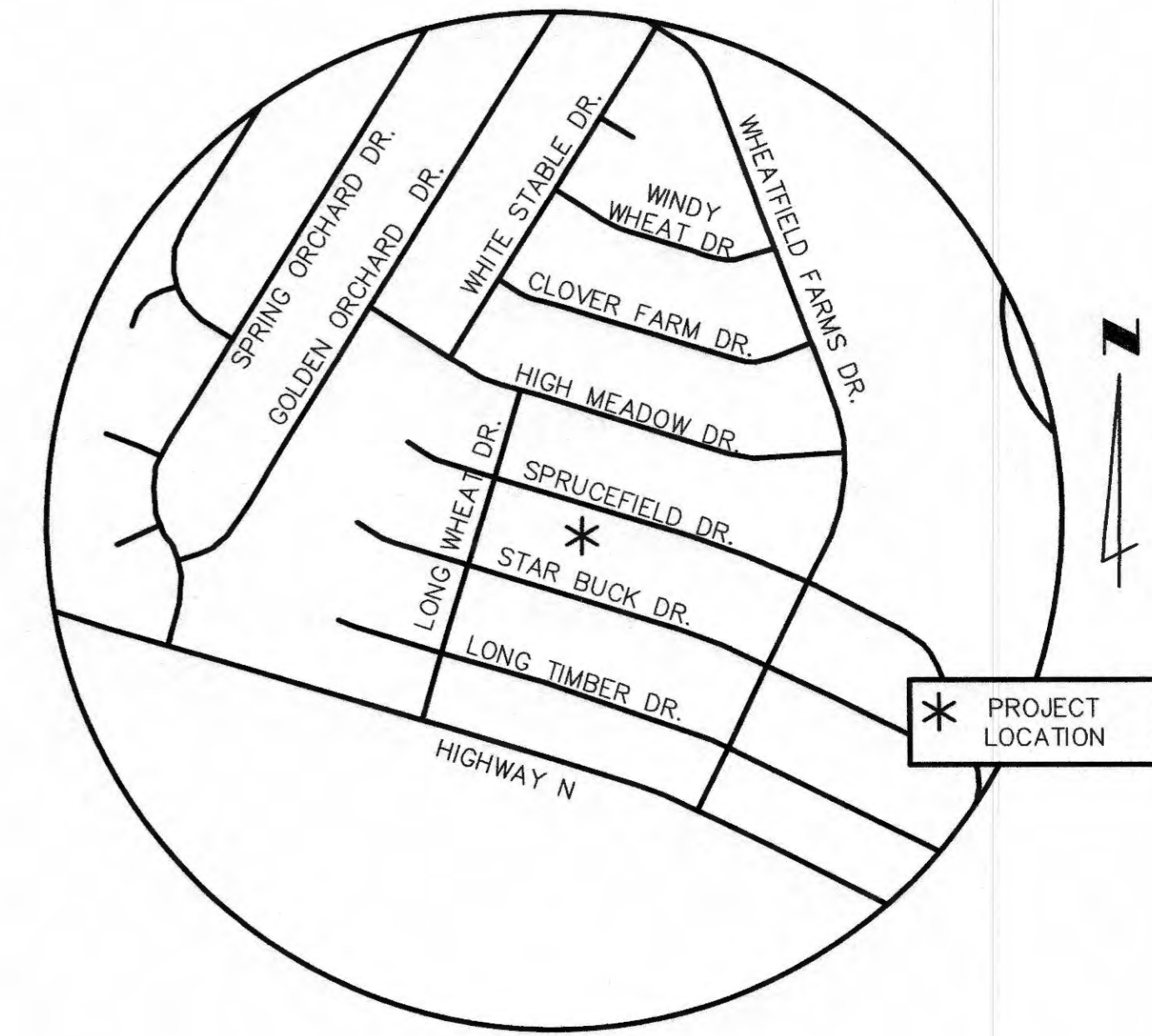


# CITY OF O'FALLON

## STAR BUCK - SPRUCEFIELD

### 2016 STORM WATER IMPROVEMENTS PROJECTS-GROUP 3



LOCATION MAP  
NOT TO SCALE

#### INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	PLAN SHEETS
3	PIPE PROFILES
4	DETAILS
5	DRAINAGE AREA MAP AND NOTES

#### LEGEND

- |  |                             |                |                |
|--|-----------------------------|----------------|----------------|
|  | SURVEY POINTS ESTABLISHED   | R - RECORD     |                |
|  | SURVEY MONUMENTATION FOUND  | C - CALCULATED |                |
|  | CROSS FOUND                 |                | CLEANOUT       |
|  | CONCRETE MONUMENT FOUND     |                | SIGN           |
|  | IRON PIPE FOUND             |                | TREE           |
|  | IRON ROD FOUND              |                | BUSH           |
|  | R.O.W. MONUMENT FOUND       |                | GAS VALVE      |
|  | STONE FOUND                 |                | GAS METER      |
|  | COTTON PICKER SPINDLE FOUND |                | WATER VALVE    |
|  | RAILROAD SPIKE FOUND        |                | WATER METER    |
|  | LARGE NAIL (TRAVERSE)       |                | ELECTRIC METER |
|  | IRON ROD (TRAVERSE)         |                | LIGHT STANDARD |
|  | CROSS (TRAVERSE)            |                | POWER POLE     |
|  | PK NAIL (TRAVERSE)          |                | GUY WIRE       |
|  | SUBDIVISION LOT NUMBER      |                | FIRE HYDRANT   |
|  | LOC.# LOCATOR NUMBER        |                | UTILITY BOX    |
|  | USE IN PLACE                |                | HOUSE VENT     |
|  |                             |                | MAIL BOX       |
|  |                             |                | TEST HOLE      |

#### EXISTING

#### NEW

- |  |                               |  |
|--|-------------------------------|--|
|  | MANHOLE                       |  |
|  | INLET MANHOLE                 |  |
|  | INLET                         |  |
|  | DOUBLE INLET                  |  |
|  | MULTIPLE INLET                |  |
|  | MANHOLE DESIGNATOR            |  |
|  | INLET OR STRUCTURE DESIGNATOR |  |
|  | PIPE 6" THRU 18"              |  |
|  | PIPE 21" THRU 108"            |  |
|  | FENCE                         |  |
|  | UNDERGROUND UTILITIES         |  |
|  | FLOWLINE OF CREEK OR DITCH    |  |
|  | GUARD RAIL                    |  |
|  | SILT FENCE                    |  |



#### GENERAL NOTES

ALL DISTANCES ARE CONSIDERED RECORD [WITHIN 1/2 FOOT] UNLESS NOTED AS CALCULATED (C). ALL BEARINGS ARE SHOWN AS BOTH RECORD (R) AND CALCULATED (C).

#### BASIS OF BEARINGS

THE BASIS OF THE BEARING AND COORDINATE SYSTEM WAS ESTABLISHED USING A TRIMBLE R8 GNSS GPS THAT REFERENCES THE MIDWEST RTK NETWORK (MWRTK) (VRS) MISSOURI EAST ZONE STATE PLANE COORDINATE SYSTEM, 1983. THE COORDINATES ARE SHOWN IN U.S. SURVEY FEET (GROUND).

#### STATE PLANE COORDINATE SYSTEM

THE BASIS OF THE BEARING SYSTEM AND SITE ELEVATIONS WERE ESTABLISHED BY READINGS THAT WERE TAKEN WITH A TRIMBLE R8 GNSS GPS RECEIVER THAT REFERENCES THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION REAL TIME KINEMATIC (MTRTK) NETWORK (VRS). THE MISSOURI EAST ZONE STATE PLANE COORDINATE SYSTEM, 1983, WITH GRID NORTH HAS BEEN ADOPTED. VERTICAL ELEVATION RESULTS ARE MORE PARTICULARLY DERIVED USING NAVD88 ORTHOMETRIC HEIGHTS BASED ON GEOID 2012A. THIS SYSTEM USES INTEGRATED NETWORKS OF CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) AND TRIMBLE NAVIGATION GPSNET AND RTKNET SOFTWARE TO PRODUCE A MODEL OF SYSTEMATIC GPS DATA, WHICH SIGNIFICANTLY IMPROVES RTK ACCURACIES FOR ROVERS WORKING WITHIN THE NETWORK. THE NETWORK REFERENCE STATION POSITIONS AND RESULTING COORDINATES ARE COMPUTED WITH RESPECT TO THE NAD83 (2011)(EPOCH: 2010.0000) REFERENCE.

#### STORM AND SANITARY SEWER MEASUREMENTS

THE EXISTING SEWER LENGTHS, SIZES, FLOWLINES, DEPTHS OF STRUCTURES AND SEWERS AND LOCATIONS WITH RESPECT TO EXISTING OR PROPOSED EASEMENTS HAVE BEEN MEASURED. THE RESULTS OF THOSE MEASUREMENTS ARE SHOWN ON THIS SET OF FINAL MEASUREMENT PLANS. SINCE THE WYE LOCATIONS HAVE BEEN PLOTTED FROM INFORMATION PROVIDED BY THE SEWER CONTRACTOR OR OTHER SOURCES, I DISCLAIM ANY RESPONSIBILITY FOR THAT SPECIFIC INFORMATION.

ALL PUBLIC SEWERS ARE LOCATED WITHIN DESIGNATED EXISTING OR PROPOSED EASEMENTS EXCEPT AS FOLLOWS:



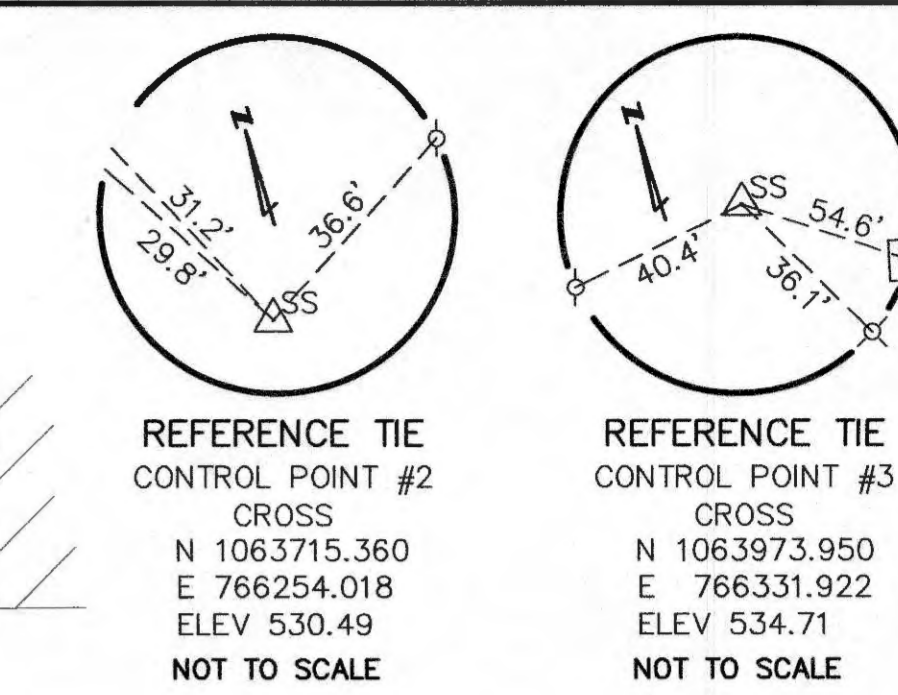
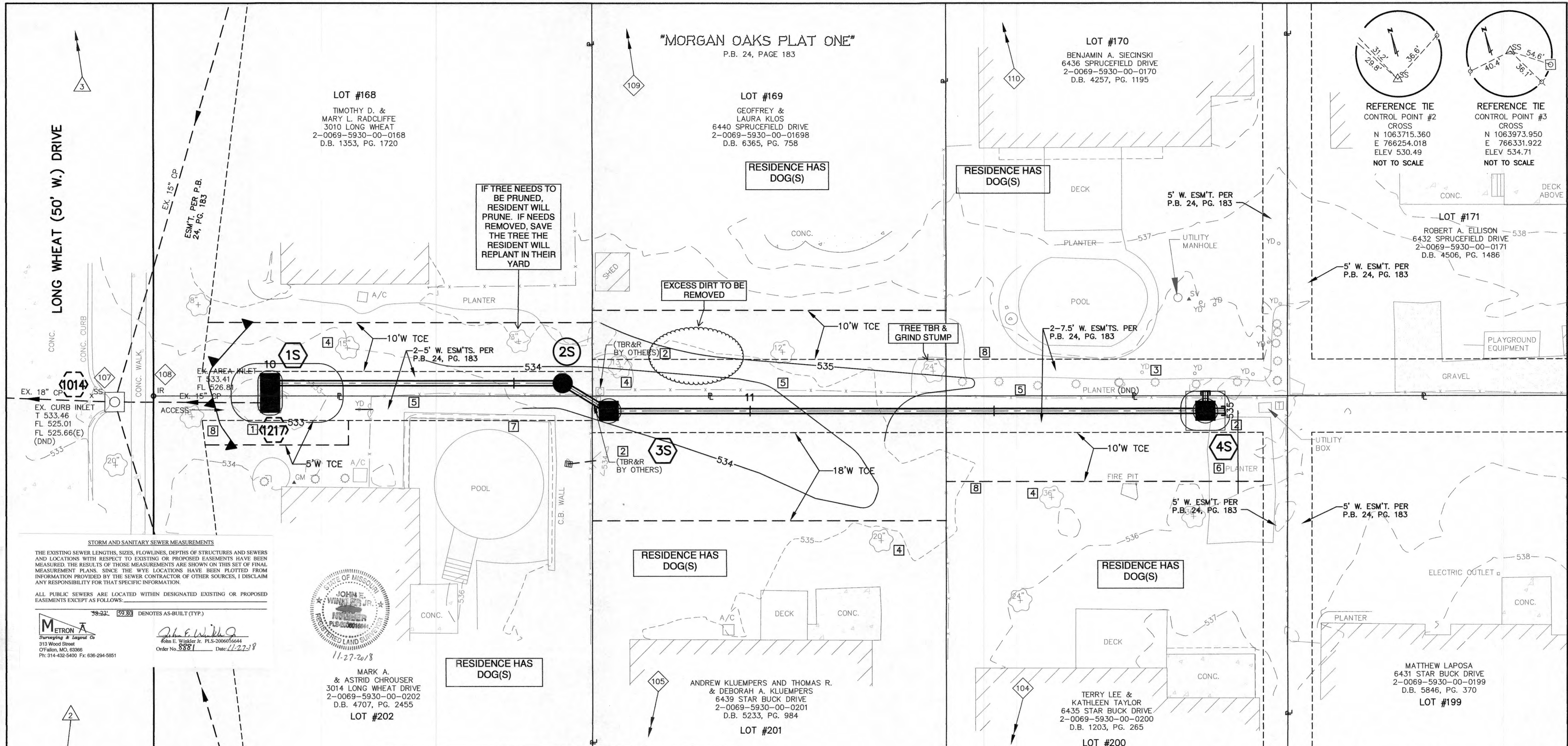
John E. Winkler Jr. PLS-2006016644  
Order No. 6881 Date: 12-2-18



THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

REV.	DATE	DESCRIPTION	BY
 <b>CITY OF O'FALLON</b> 100 NORTH MAIN STREET O'FALLON, MO 63366 (636) 240-2000			
<b>STAR BUCK - SPRUCEFIELD</b> <b>2016 STORM WATER</b> <b>IMPROVEMENTS PROJECTS - GROUP 3</b> <b>O'FALLON, MISSOURI</b>			
Asst Dir Engr	Designed	S.L.S.	
Dir Engr	Drawn	E.B.S.	
	Checked	J.L.H.	
	Date	MAY, 2017	
	Sheet No.	1 of 5	

HRGreen Inc.  
16020 Swingley  
Ridge Rd., Ste. 205  
Chestertown, MO 63017  
Phone: 636-519-0990  
Professional Engineering Corporation  
MO Cert. of Authority # 2002006608



**STORM AND SANITARY SEWER MEASUREMENTS**  
 THE EXISTING SEWER LENGTHS, SIZES, FLOWLINES, DEPTHS OF STRUCTURES AND SEWERS AND LOCATIONS WITH RESPECT TO EXISTING OR PROPOSED EASEMENTS HAVE BEEN MEASURED. THE RESULTS OF THOSE MEASUREMENTS ARE SHOWN ON THIS SET OF FINAL MEASUREMENT PLANS. SINCE THE WVE LOCATIONS HAVE BEEN PLOTTED FROM INFORMATION PROVIDED BY THE SEWER CONTRACTOR OF OTHER SOURCES, I DISCLAIM ANY RESPONSIBILITY FOR THAT SPECIFIC INFORMATION.  
 ALL PUBLIC SEWERS ARE LOCATED WITHIN DESIGNATED EXISTING OR PROPOSED EASEMENTS EXCEPT AS FOLLOWS:

38-22' [59.8] DENOTES AS-BUILT (TYP.)  
 METRON A  
 Surveying & Land Co.  
 313 Wood Street  
 O'Fallon, MO, 63366  
 Ph: 314-432-5400 Fax: 636-294-5851  
 John E. Winkler Jr.  
 PLS-2006016644  
 Order No. 8881 Date: 11-22-18



MARK A. & ASTRID CHROUSER  
 3014 LONG WHEAT DRIVE  
 2-0069-5930-00-0202  
 D.B. 4707, PG. 2455  
 LOT #202

ANDREW KLJEMPERS AND THOMAS R. & DEBORAH A. KLJEMPERS  
 6439 STAR BUCK DRIVE  
 2-0069-5930-00-0201  
 D.B. 5233, PG. 984  
 LOT #201

TERRY LEE & KATHLEEN TAYLOR  
 6435 STAR BUCK DRIVE  
 2-0069-5930-00-0200  
 D.B. 1203, PG. 265  
 LOT #200

MATTHEW LAPOSA  
 6431 STAR BUCK DRIVE  
 2-0069-5930-00-0199  
 D.B. 5846, PG. 370  
 LOT #199

POINT TABLE				
CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION
2	1063715.360	766254.018		CROSS
3	1063973.950	766331.922		CROSS
104	1063673.275	766437.224		CROSS
105	1063694.203	766367.817		CROSS
107	1063841.085	766304.926		CROSS
108	1063837.381	766317.015		IRON ROD W/ CAP
109	1063928.708	766438.422		CROSS
110	1063907.856	766507.878		CROSS

EXISTING STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
1014	1014		1063838.493	766309.053	EX CURB INLET
1057	1057		1063716.692	766309.398	EX AREA INLET
1060	1060		1063683.640	766299.456	EX CURB INLET
1061	1061		1063942.525	766376.596	EX CURB INLET
1065	1065		1063974.971	766386.851	EX CURB INLET
1217	1217		1063829.138	766339.540	EX AREA INLET
2792	2792		1063925.669	766054.743	EX AREA INLET

NEW STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
1S	1S		1063831.056	766340.106	NEW DOUBLE AREA INLET
2S	2S		1063815.684	766398.115	NEW MANHOLE
3S	3S		1063807.507	766405.521	NEW AREA INLET
4S	4S		1063772.238	766522.619	NEW AREA INLET

- KEYED NOTES**
- REMOVE EXISTING AREA INLET, REPLACE WITH NEW DOUBLE AREA INLET.
  - AVOID DISTURBANCE OF COMMUNICATIONS AND ELECTRICAL UTILITIES OR ARRANGE FOR REMOVAL AND REPLACEMENT BY UTILITY OWNER.
  - IF YARD DRAINS ARE INTERCEPTED BY CONTRACTOR'S WORK, REMOVE & REPLACE YARD DRAIN DISCHARGE POPUPS.
  - PRUNE TREE ROOTS AT EDGE OF EXCAVATION.
  - FENCE: REMOVE AS NECESSARY AND REPLACE TO MATCH EXISTING.
  - PLANTER: EDGING TO BE REMOVED & REPLACED TO MATCH EXISTING. CONTRACTOR NEED NOT REPLACE PLANTINGS IN PLANTER.
  - POOL DECK & TRIM: (DND).
  - SILTATION CONTROL SUCH AS SILT FENCES, STRAW BALES, AND COVERING EXCAVATED EARTH AND STOCK PILED MATERIALS SHALL BE LOCATED AND INSTALLED IN CONFORMANCE WITH CONTRACTOR-PREPARED ENGINEER-APPROVED STORMWATER POLLUTION PREVENTION PLAN AND WITH EROSION CONTROL DETAILS SHOWN ON SHEET 4 TO PREVENT SILT FROM LEAVING TEMPORARY CONSTRUCTION EASEMENT.

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

		<b>CITY OF O'FALLON</b> 100 NORTH MAIN STREET O'FALLON, MO 63366 (636) 240-2000	
<b>STAR BUCK - SPRUCEFIELD</b> <b>2016 STORM WATER</b> <b>IMPROVEMENTS PROJECTS - GROUP 3</b> <b>O'FALLON, MISSOURI</b>		Designed: S.L.S. Drawn: E.B.S. Checked: J.L.H. Date: MAY, 2017 Sheet No: 2 of 5	

