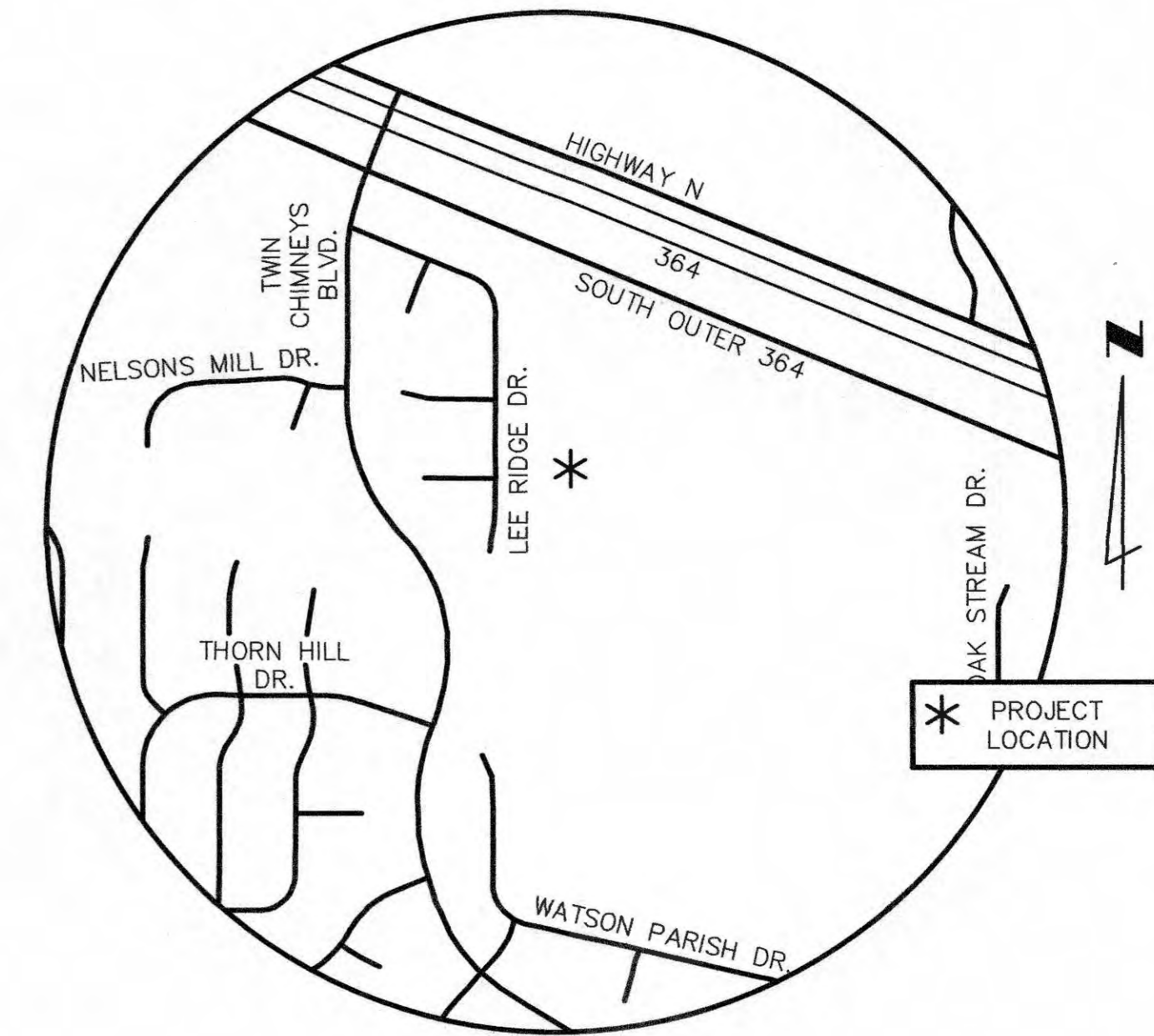


CITY OF O'FALLON

TWIN CHIMNEYS - LEE RIDGE

STORM WATER IMPROVEMENTS PROJECT



LOCATION MAP
NOT TO SCALE

INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	PLAN AND PROFILE SHEET
3	DETAILS
4	DRAINAGE AREA MAP AND NOTES

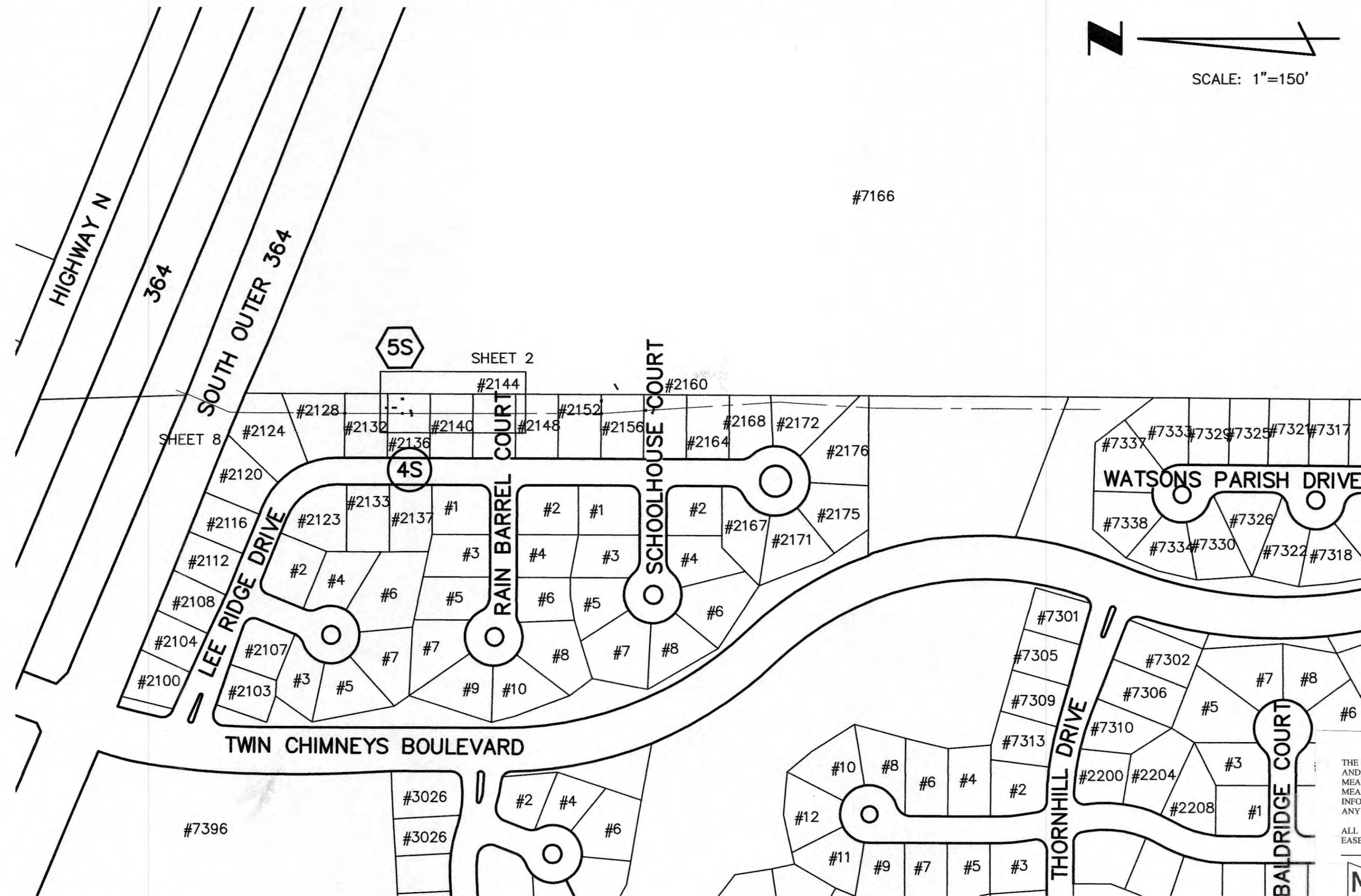
LEGEND

- | | |
|---|--|
| <ul style="list-style-type: none"> △ SURVEY POINTS ESTABLISHED 100 SURVEY MONUMENTATION FOUND x^{SS} CROSS FOUND □^{CM} CONCRETE MONUMENT FOUND ○^{IP} IRON PIPE FOUND ○^{IR} IRON ROD FOUND ⊠^{RW} R.O.W. MONUMENT FOUND ▲ST STONE FOUND ○^{CS} COTTON PICKER SPINDLE FOUND ○^{RR} RAILROAD SPIKE FOUND △^{LN} LARGE NAIL (TRAVERSE) △^{IR} IRON ROD (TRAVERSE) △^{SS} CROSS (TRAVERSE) △^{PK} PK NAIL (TRAVERSE) 3 SUBDIVISION LOT NUMBER LOC.# LOCATOR NUMBER (UIP) USE IN PLACE | <ul style="list-style-type: none"> R - RECORD C - CALCULATED ○^{CO} CLEANOUT ○ SIGN 12" TREE ○ BUSH ▲^{GV} GAS VALVE ▲^{GM} GAS METER ▲^{WV} WATER VALVE ▲^{WM} WATER METER ▲^{EM} ELECTRIC METER ☆ LIGHT STANDARD ● POWER POLE → GUY WIRE ● FIRE HYDRANT □ UTILITY BOX ○ VENT ○ HOUSE VENT ◇ MAIL BOX ○ TEST HOLE |
|---|--|

EXISTING

NEW

- | | |
|---|---|
| <ul style="list-style-type: none"> ○ MANHOLE □ INLET MANHOLE □ INLET □ DOUBLE INLET □ MULTIPLE INLET ○ MANHOLE DESIGNATOR ○ INLET OR STRUCTURE DESIGNATOR — PIPE 6" THRU 18" — PIPE 21" THRU 108" — x — x — FENCE — 2" — UNDERGROUND UTILITIES — FLOWLINE OF CREEK OR DITCH — GUARD RAIL — SILT FENCE | <ul style="list-style-type: none"> ● MANHOLE □ INLET MANHOLE □ INLET □ DOUBLE INLET □ MULTIPLE INLET ○ MANHOLE DESIGNATOR ○ INLET OR STRUCTURE DESIGNATOR — PIPE 6" THRU 18" — PIPE 21" THRU 108" — x — x — FENCE — 2" — 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 (MWRKT) (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 (MHTCRK) 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 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:

METRON
Surveying & Layout Co.
313 Wood Street
O'Fallon, MO 63366
Ph: 314-432-0400 Fax: 636-294-5851

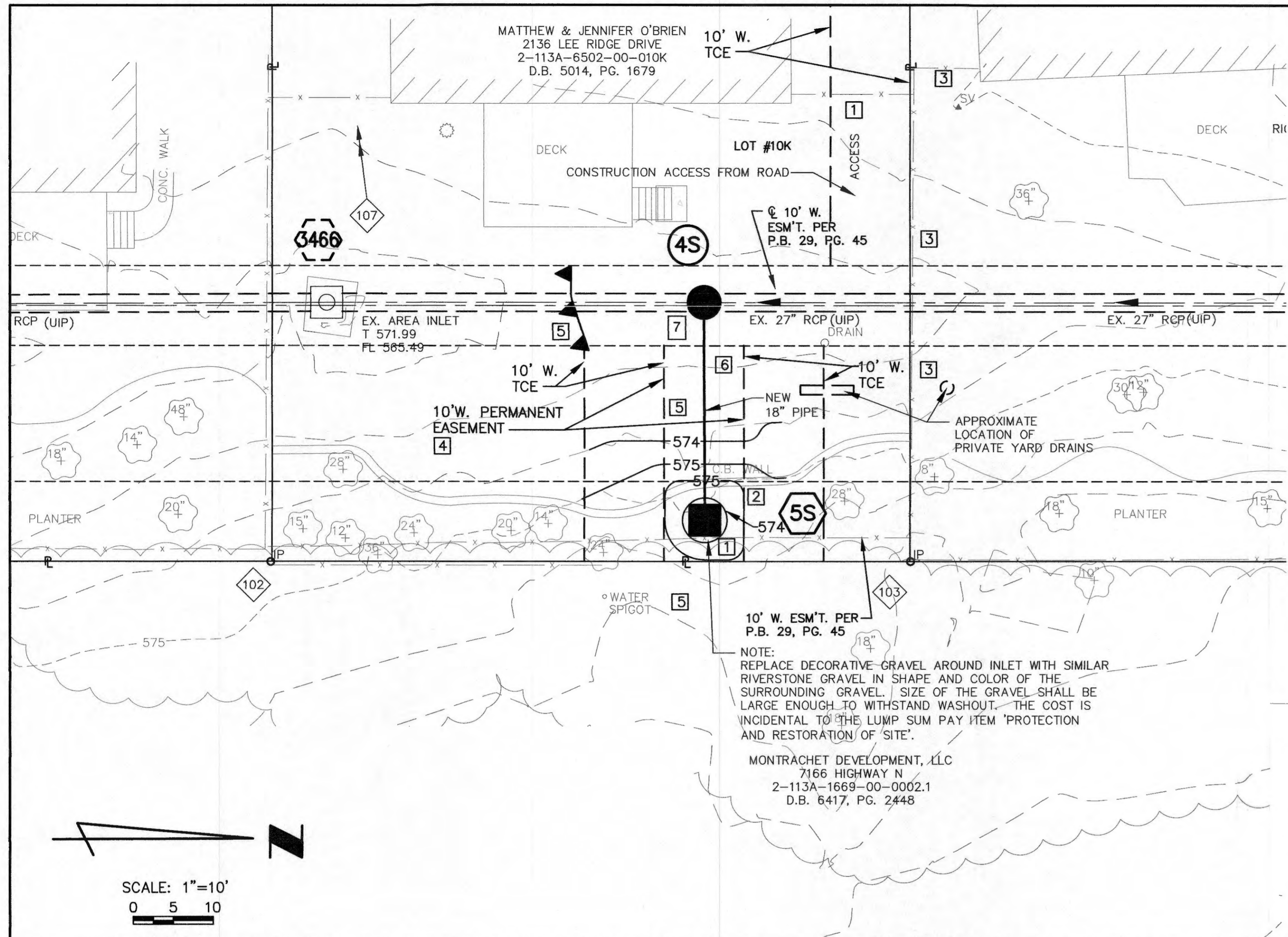
John E. Winkler Jr.
John E. Winkler Jr. PLS-2006016644
Order No. 232214 Date: 11-27-18



11-27-2018

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REV.	DATE	DESCRIPTION	BY
JOSIAH L. HOLST, P.E. PROFESSIONAL ENGINEER P.E. No. MO 2011000902 DATE: 3/29/2018			
HRGreen Inc. 16020 Swingley Ridge Rd., Ste. 205 Chesterfield, MO 63017 Phone: 636-519-0990 Professional Engineering Corporation MO Cert. of Authority # 200206808			
Asst Dir Engr _____		Drawn _____	S.I.S.
Dir Engr _____		Checked _____	E.B.S.
		Date _____	J.L.H.
		Date _____	MARCH, 2018
		Sheet No. _____ of _____	4



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 THESE MEASUREMENTS ARE SHOWN ON THIS SET OF FINAL MEASUREMENT PLANS. SINCE THE WYE 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:

38-33' 59.80' DENOTES AS-BUILT (TYP.)

METRON
 Surveying & Layout Co.
 313 Wood Street
 O'Fallon, MO, 63366
 Ph: 314-432-5400 Fax: 636-294-5851

John E. Winkler Jr.
 PLS-2006016644
 Order No. 22214 Date: 11/21/18

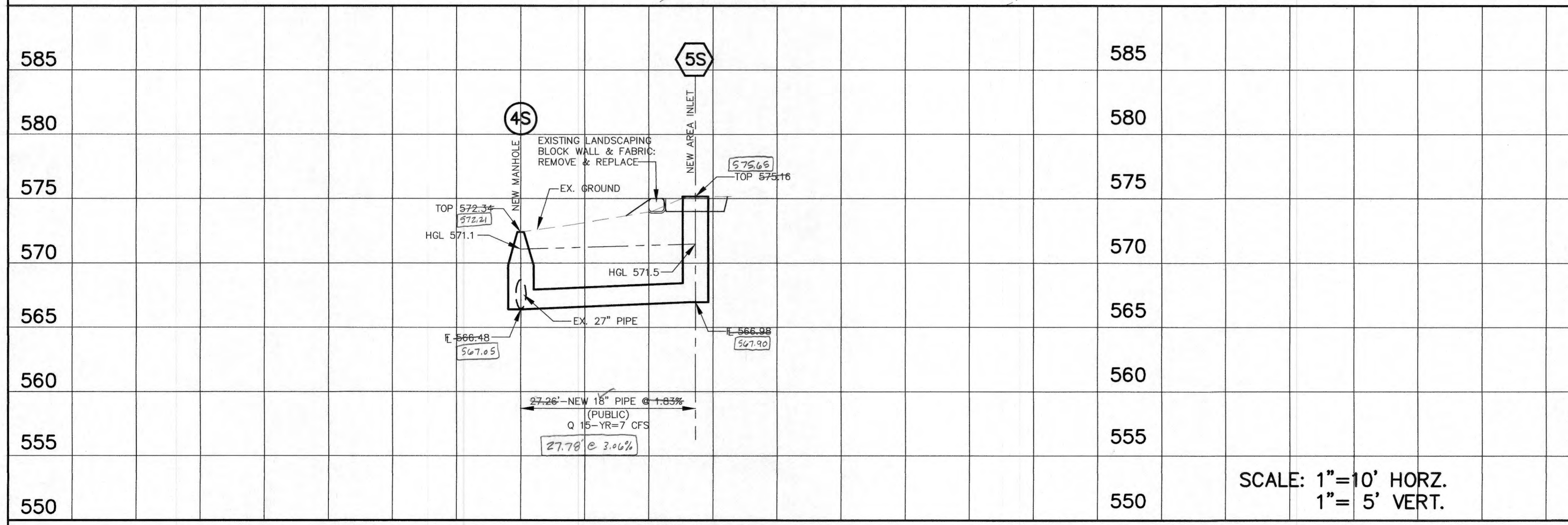


EXISTING STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
3466	3466		1066327.492	755527.861	EX AREA INLET

POINT TABLE					
CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION	
102		1066320.395	755560.255	IRON PIPE	
103		1066400.623	755560.518	IRON PIPE	
107		1066320.994	766367.817	CROSS	

NEW STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
4S	4S		1066374.830	755528.009	NEW MANHOLE
5S	5S		1066374.840	755555.272	NEW AREA INLET

- KEYED NOTES**
- FENCE: REMOVE AND REPLACE
 - EXISTING LANDSCAPING BLOCK & FABRIC: REMOVE AND REPLACE TO MATCH EXISTING.
 - FENCE: DO NOT DISTURB.
 - CONTRACTOR SHALL CONFINE CONSTRUCTION OPERATIONS WITHIN TCE & PERMANENT EASEMENTS.
 - PREVENT SILT FROM LEAVING TEMPORARY CONSTRUCTION EASEMENT. DRAINAGE IS TOWARD SEWER TRENCH. INSTALL SILTATION CONTROL SUCH AS SILT FENCES, STRAW BALES, AND COVERING EXCAVATED EARTH AND STOCK PILED MATERIALS IN CONFORMANCE WITH CONTRACTOR-PREPARED ENGINEER-APPROVED STORMWATER POLLUTION PREVENTION PLAN AND WITH EROSION CONTROL DETAILS SHOWN ON SHEET 3.
 - WHERE PRIVATE DRAIN OR SERVICE LINES, INCLUDING DOWNSPOUT DRAINS, ARE ENCOUNTERED DURING THE INSTALLATION OF THE PROPOSED STORM SEWER AND APPURTENANCES, THEY SHALL BE PROTECTED, AND REPAIRED AND RECONNECTED IF DISTURBED. THIS WORK IS CONSIDERED INCIDENTAL.
 - Existing buried storm water structure located in vicinity of proposed manhole location. Contractor shall bid project for removal of existing buried structure and replacement with new manhole. Contractor shall be responsible for locating existing buried structure prior to start of construction to determine exact location and identify any conflicts with proposed storm sewer. 27 inch RCP included as bid item if needed for connection of proposed manhole to existing storm sewer.



Keyed note 7 added by City of O'Fallon to plan set and not covered by Engineers seal which appears on this sheet.

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REV.	DATE	DESCRIPTION	BY

Engineer Seal
 JOSIAH L. HOLST, P.E.
 PROFESSIONAL ENGINEER
 P.E. No. MO. 2011000902
 DATE: 3/29/2018

CITY OF O'FALLON
 100 NORTH MAIN STREET
 O'FALLON, MO 63366
 (636) 240-2000

**TWIN CHIMNEYS - LEE RIDGE
 STORM WATER
 IMPROVEMENTS PROJECT
 O'FALLON, MISSOURI**

Asst Dir Engr: _____
 Dir Engr: _____

Designed: S.L.S.
 Drawn: E.B.S.
 Checked: J.L.H.
 Date: MARCH, 2018
 Sheet No. 2 of 4

SCALE: 1"=10' HORZ.
 1"= 5' VERT.