

DRAINAGE AREA BASIN MAP TABLE											
INLET DRAINAGE AREA TABLE											
Designation	Pervious (sf)	Impervious (sf)	Total Area (sf)	Pervious (ac)	Impervious (ac)	TOTAL AREA (ACRES)	IMPERV %	PI (100 yr, 20 min)	PI (15 yr, 20 min)	Q100 (cfs)	Q15 (cfs)
205	541	15,197	15,738	0.01	0.35	0.36	0.0%	2.17	1.61	0.78	0.58
204	3,851	14,126	17,976	0.09	0.32	0.41	78.6%	4.21	3.13	1.74	1.29
203	917	9,728	10,645	0.02	0.22	0.24	91.4%	4.55	3.37	1.11	0.82
202	1,131	6,390	7,521	0.03	0.15	0.17	85.0%	4.38	3.25	0.76	0.56
EX 1	1,854	5,290	7,144	0.04	0.12	0.16	74.0%	4.10	3.04	0.67	0.50
479	1,010	10,451	11,461	0.02	0.24	0.26	91.2%	4.54	3.37	1.19	0.89
480	1,672	10,411	12,083	0.04	0.24	0.28	86.2%	4.41	3.27	1.22	0.91
104	1,613	14,132	15,745	0.04	0.32	0.36	89.8%	4.50	3.34	1.63	1.21
103	2,132	9,303	11,435	0.05	0.21	0.26	81.4%	4.29	3.18	1.12	0.83
102	3,516	21,924	25,440	0.08	0.50	0.58	86.2%	4.41	3.27	2.58	1.91
100	3,442	319	3,762	0.08	0.01	0.09	8.5%	2.39	1.77	0.21	0.15

* PROPOSED ROOF DRAIN AREAS HAVE BEEN ADDED INTO THE IMPERVIOUS AREAS OF THE STORM BASINS THEY DRAIN TO

EXISTING CONDITIONS RUNOFF			
Description	Area (Acres)	15-YEAR, 20-MINUTE RUNOFF PI-FAVORS (CFS/ACRE)	RUNOFF (CFS)
PAVEMENT	0.27	3.54	0.942
PERVIOUS AREA	2.92	1.61	4.701
TOTAL	3.19		5.643

PROPOSED CONDITIONS RUNOFF			
Description	Area (Acres)	15-YEAR, 20-MINUTE RUNOFF PI-FAVORS (CFS/ACRE)	RUNOFF (CFS)
PAVEMENT/ROOF AREA	2.63	3.54	9.310
PERVIOUS AREA	0.56	1.61	0.902
TOTAL	3.19		10.212

DIFFERENTIAL RUNOFF		
EXISTING RUNOFF (CFS)	PROPOSED RUNOFF (CFS)	DIFFERENTIAL RUNOFF (CFS)
5.643	10.212	RUNOFF INCREASES BY 4.569 CFS

DRAINAGE PLAN LEGEND

- UTILITIES**
 - COMMUNICATIONS JUNCTION BOX
 - COMMUNICATIONS MANHOLE
 - COMMUNICATIONS PEDESTAL
 - COMMUNICATIONS RISER
 - TRAFFIC SIGNAL POLE
 - STORM CLEANOUT
 - BEEHIVE INLET
 - CURB INLET
 - FLOOR DRAIN
 - ROUND INLET
 - SQUARE INLET
 - STORM MANHOLE
 - DOWN SPOUT
 - SANITARY SEWER CLEANOUT
 - LIFT STATION
 - SANITARY SEWER MANHOLE
 - SANITARY STUB MARKER
 - SEPTIC TANK
 - DISTRIBUTION BOX
- OTHER**
 - FLAG POLE
 - SIGN
 - POST
 - GATE POST
 - BOLLARD
 - PARKING METER
 - PARKING WHEEL STOP
 - ACCESSIBLE SPACE
 - CURB & GUTTER ELEVATION
 - PAVEMENT SPOT ELEVATION
 - GROUND SPOT ELEVATION
 - EXISTING SPOT ELEVATION
 - EMERGENCY FLOOD ROUTE
 - FLOW DIRECTION AND SLOPE
 - CISTERN
 - DRINKING FOUNTAIN
 - FIRE DEPT HOOKUP
 - FIRE HYDRANT
- ABBREVIATIONS**

ROW	RIGHT OF WAY
ESMT	EASEMENT
D.&U.E.	DRAINAGE AND UTILITY EASEMENT
FFE	FINISH FLOOR ELEVATION
TC	TOP OF CURB
GUT	GUTTER
CMP	CORRUGATED METAL PIPE
RCP	REINFORCED CONCRETE PIPE
PVC	POLYVINYL CHLORIDE PIPE
VCP	VITRIFIED CLAY PIPE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
DIP	DUCTILE IRON PIPE
SSD	SUB SURFACE DRAIN PIPE
STM	STORM
SAN	SANITARY
STR	STRUCTURE
CO	CLEANOUT
YB9	STORMWATER BASIN NUMBER
- POST INDICATOR VALVE**
 - CHILLED WATER MANHOLE
 - WATER MANHOLE
 - SPRINKLER CONTROL BOX
 - SPRINKLER CONTROL VALVE
 - SPRINKLER
 - SPIGOT
 - WELL HEAD
 - WATER METER
 - WATER VALVE
 - GAS METER
 - GAS VALVE
 - ELECTRIC MANHOLE
 - ELECTRIC OUTLET
 - ELECTRIC METER
 - ELECTRIC RISER
 - TRANSFORMER
 - GUY ANCHOR
 - ELECTRIC JUNCTION BOX
 - GENERATOR
 - UTILITY POLE
 - UTILITY POLE W/ TRANSFORMER
 - MONITORING WELL
 - LIQUID PROPANE GAS TANK
 - ORNAMENTAL LIGHT
 - STREET LIGHT
 - PARKING LOT LIGHT (1 HEAD)
 - PARKING LOT LIGHT (2 HEAD)
 - PARKING LOT LIGHT (3 HEAD)
 - PARKING LOT LIGHT (4 HEAD)
- RUNOFF FLOW ARROW**

DRAINAGE PLAN NOTES

- DOWNSPOUT/ROOF DRAIN POINT OF CONNECTION. COORDINATE WITH ARCHITECTURAL PLANS.
- 12" PPE DUAL WALLED HANCOR HQ OR EQUIVALENT ROOF DRAIN @ 1.0% MINIMUM
- 4" SUBSURFACE DRAINS, PERFORATED DUAL WALLED HANCOR HQ OR EQUIVALENT
- PROPOSED STORM SEWER PER O'FALLON STANDARDS
- 2 GRATE INLET
- CONVERT EXISTING CURB INLET TO 2 GRATE INLET
- 8" PPE DUAL WALLED HANCOR HQ OR EQUIVALENT CLEANOUT

CITY NOTES:

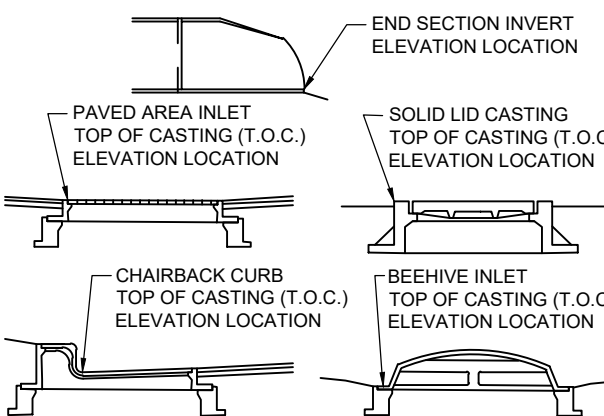
- ALL FILL PLACED UNDER PROPOSED STORM AND SANITARY SEWERS, PROPOSED ROADS AND/OR PAVED AREAS SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED AASHTO 1-180 COMPACTION TEST OR 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO T-99. ALL FILL PLACED IN PROPOSED ROADS SHALL BE COMPACTED FROM BOTTOM OF THE FILL UP. ALL TESTS SHALL BE VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING AND BACKFILL OPERATIONS.
- DEVELOPER MUST SUPPLY CITY CONSTRUCTION INSPECTORS WITH AN ENGINEER'S SOIL REPORTS PRIOR TO AND DURING SITE SOIL TESTING.

PAVEMENT

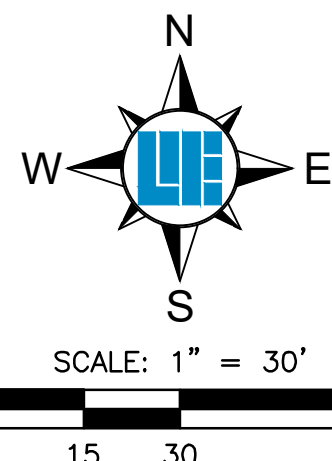
- STANDARD DUTY ASPHALT
- HEAVY DUTY ASPHALT
- CONCRETE PAVEMENT

LINE TYPES

- RIGHT OF WAY LINE
- FENCE
- GUARD RAIL
- BOUNDARY LINE
- FLOW LINE
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- UNDERGROUND GAS
- UNDERGROUND WATER
- AERIAL ELECTRIC
- UNDERGROUND ELECTRIC
- UNDERGROUND COMMUNICATIONS
- AERIAL COMMUNICATIONS
- UNDERGROUND FIBER OPTIC
- AERIAL FIBER OPTIC CABLE
- OVERHEAD UTILITY
- FORCE MAIN
- SANITARY SEWER LATERAL
- SANITARY SEWER MAIN
- ROOF DRAIN
- SUB SURFACE DRAIN
- STORM SEWER MAIN



STORM STRUCTURE T.O.C. ELEVATION LOCATION



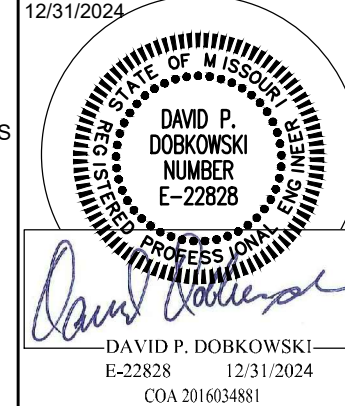
Within Missouri Call
811 or 800-344-7483
24 Hours a Day, 7 Days a Week

PER MISSOURI STATE LAW ADVANCE NOTICE: 2 WORKING DAYS (MISSOURI REVISED STATUTES, CHAPTER 319, GENERAL SAFETY REQUIREMENTS - SECTIONS 319.010 THROUGH 319.020 SHALL BE KNOWN AS THE "UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT")

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WEIHE ENGINEERS
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PROJECT NO.:	W23.0784
DATE:	06/13/2024
BY:	DD
ISSUED FOR CLIENT REVIEW	06/13/2024
ISSUED FOR CITY OF OFALLON COMMENTS	08/28/2024
ISSUED FOR CITY OF OFALLON COMMENTS	10/18/2024
DESIGNED BY:	BS
DRAWN BY:	JS
CHECKED BY:	DD
DATE:	08/28/2024



DAVID P. DOBKOWSKI
E-22828 12/31/2024
COA 201654881

PREPARED FOR:
HOTEL - CALEDONIA
LOT 4 AND 5, CALEDONIA CENTER, OFALLON, MO
63368
DRAINAGE PLAN
PART OF SECTION 13, TOWNSHIP 48 NORTH, RANGE 2 EAST, ST. CHARLES COUNTY, MO.

SHEET NO.
C600
PROJECT NO.
W23.0784