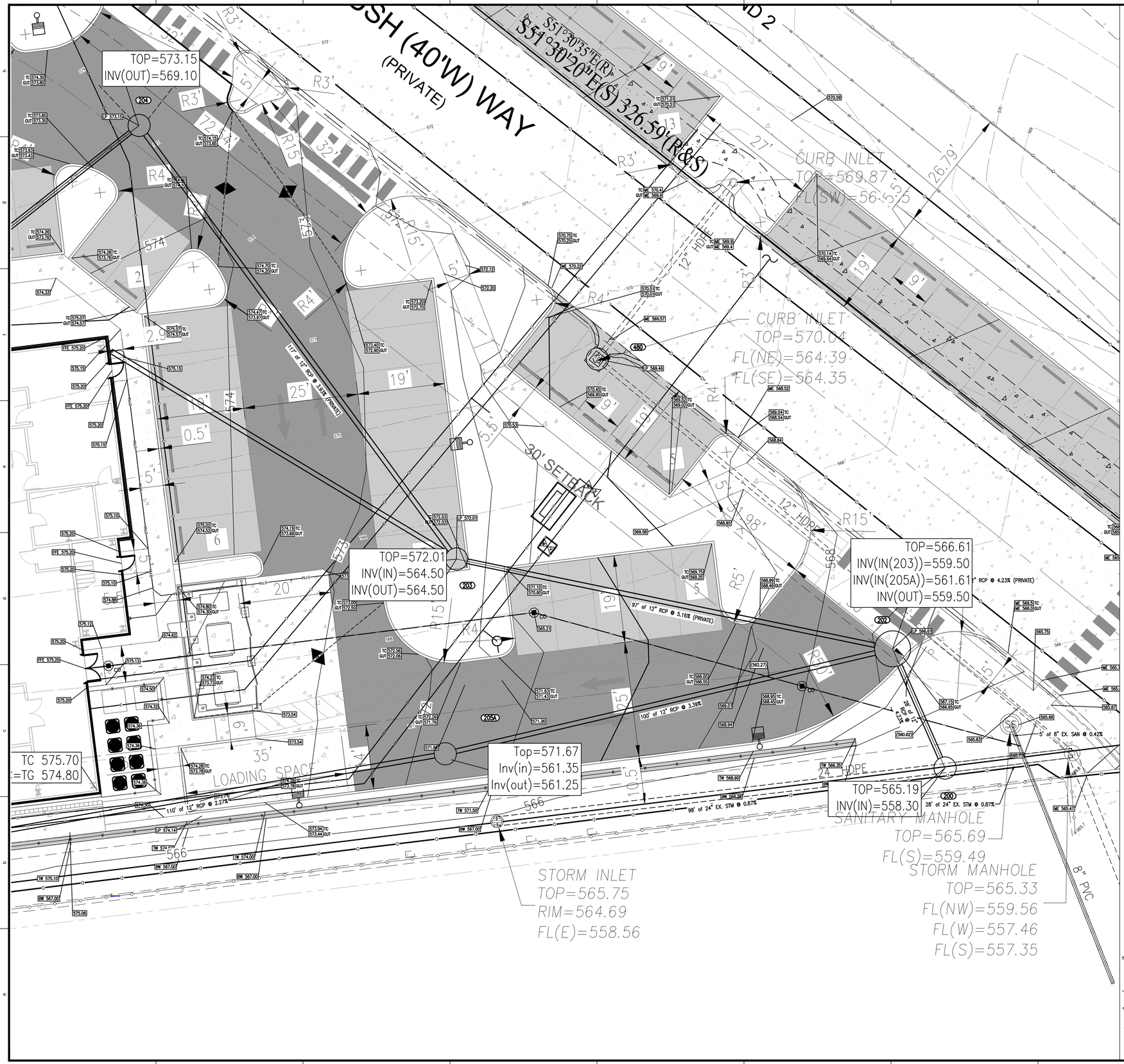


STORM SEWER PLAN AND PROFILE LEGEND

UTILITIES

- CISTERN
- DRINKING FOUNTAIN
- FIRE DEPT HOOKUP
- FIRE HYDRANT
- 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
- ELECTRICAL 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)
- COMMUNICATIONS JUNCTION BOX
- COMMUNICATIONS MANHOLE
- COMMUNICATIONS PEDESTAL
- COMMUNICATIONS RISER
- TRAFFIC SIGNAL POLE
- TRAFFIC SIGNAL
- STORM CLEANOUT
- BEEHIVE INLET
- CURB INLET
- FLOOR DRAIN
- SQUARE INLET
- STORM MANHOLE
- ROUND INLET
- 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
- EMERGENCY FLOOD ROUTE
- FLOW DIRECTION AND SLOPE

STORM SEWER NOTES

1. THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE EPA OR APPLICABLE STATE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES AND STORMWATER POLLUTION PREVENTION PLAN.
2. THE CONTRACTOR SHALL CONTACT APPLICABLE STATE UNDERGROUND LOCATION SERVICE AT LEAST 72 HOURS PRIOR TO ANY WORK AND SHALL CONTACT THE OWNER AND/OR ENGINEER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
3. THE PLANS SHOW THE LOCATION OF ALL KNOWN UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION ACCORDING TO INFORMATION PROVIDED BY THE VARIOUS UTILITY COMPANIES, PREVIOUS CONSTRUCTION PLANS AND AS EVIDENCED BY OBSERVATION OF ABOVE GROUND CONDITIONS BY THE SURVEYOR. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED.
4. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC. WITHIN THE CONSTRUCTION LIMITS. THE LOCATION AND PROTECTION OF UTILITY STRUCTURES, THEIR SUPPORT AND MAINTENANCE DURING CONSTRUCTION (IN COOPERATION WITH APPLICABLE UTILITY COMPANY) IS THE EXPRESSED RESPONSIBILITY OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITIES AND VERIFY ANY AND ALL FEES ASSOCIATED WITH THE INSTALLATION OF ALL UTILITIES.
6. ALL CONSTRUCTION ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH O.S.H.A. STANDARDS FOR WORKER SAFETY.
7. ANY PART OF STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
8. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY LOCATION, SIZE, AND ELEVATION OF EXISTING UTILITIES, STRUCTURES, PIPES, PAVEMENTS, ETC. AS RELATED TO THEIR WORK. NOTIFY ENGINEER OF ANY CONFLICT AND/OR DISCREPANCIES IN THE CONSTRUCTION DOCUMENTS.
9. MAINTAIN 10' HORIZONTAL AND 18" VERTICAL CLEARANCE BETWEEN STORM / SANITARY SEWER SYSTEMS AND DOMESTIC/FIRE LINE SERVICE. SANITARY SEWER LINE IN PROXIMITY OF WATER LINE SHALL BE C900 WATER MAIN GRADE PVC.
10. CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWERS, WATER MAINS AND STORM SEWERS IS 18" OR LESS.
11. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
12. WHEN PERFORMING EXCAVATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.
13. COMPACTED "B" BORROW BACK FILL REQUIRED OVER ALL UTILITIES IN PAVED AREAS.
14. ALL UTILITY STRUCTURES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING AND COVERS.
15. COORDINATE LOCATIONS AND CONNECTIONS OF BUILDING STORM LINES WITH PLUMBING DRAWINGS.
16. FOLLOW ALL LOCAL AND STATE CODES IN REFERENCE TO STORM SEWER INSTALLATION.
17. ALL EXISTING MANHOLE AND CATCH BASIN GRATES SHALL BE ADJUSTED TO NEW FINISH GRADE ELEVATIONS.
18. EXISTING PIPES WITHIN CONSTRUCTION LIMITS ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
19. ALL STORM SEWER STRUCTURES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING AND COVERS.
20. ALL STORM SEWER STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR CHANNEL FROM INVERT IN TO INVERT OUT.
21. NEW PIPES AND STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS PRIOR TO FINAL TURNOVER TO THE OWNER.
22. ALL FITTINGS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO END CAPS, CLEANOUTS, REDUCERS, ETC., SHALL BE OF PPE MATERIAL COMPARABLE WITH STORAGE PIPES.
23. PROVIDE BACKFILL WITH A MINIMUM OF 4" BEDDING MATERIAL OF #8 AGGREGATE COMPACTED IN 8" LIFTS TO 95% MAXIMUM DRY DENSITY.
24. VERIFY EXISTING STORM INVERT ELEVATIONS PRIOR TO STARTING NEW STORM SEWER CONNECTION.

ABBREVIATIONS

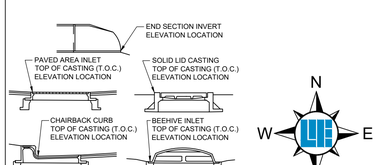
ROW	RIGHT OF WAY
ESMT	EASEMENT
D.&U.E.	DRAINAGE AND UTILITY EASEMENT
FFE	FINISH FLOOR ELEVATION
CMP	CORRUGATED METAL PIPE
RCP	REINFORCED CONCRETE PIPE
PVC	POLYVINYL CHLORIDE PIPE
VCP	VITRIFIED CLAY PIPE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
DIP	DUCTILE IRON PIPE
SSD	SUB SURFACE DRAIN PIPE
STM	STORM
SAN	SANITARY
STR	STRUCTURE
CO	CLEANOUT

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

LEGEND

- EXISTING GRADE
- FINISHED GRADE
- GRANULAR BACKFILL



STORM STRUCTURE T.O.C. ELEVATION LOCATION

N
W E
S

SCALE: 1" = 10'

0 5 10 20

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REVISIONS AND ISSUES	DATE	BY
ISSUED FOR CLIENT REVIEW	06.13.2024	DD
ISSUED FOR CLIENT REVIEW	07.18.2024	DD
ISSUED FOR CITY OF O'FALLON COMMENTS	08.28.2024	DD
ISSUED FOR CITY OF O'FALLON COMMENTS	10.16.2024	DD

PROJECT NO.: W23.0784
DWG NAME: 63368-C605-STORM SITE PLAN
DESIGNED BY: DD
DRAWN BY: JS
CHECKED BY: DD
DATE: 08/28/2024

12/31/2024

STATE OF MISSOURI
DAVID P. DOBKOWSKI
NUMBER E-22828
12/31/2024
COA 2010034881

DAVID P. DOBKOWSKI
E-22828 12/31/2024
COA 2010034881

PREPARED FOR:
HOTEL - CALEDONIA

LOT 4 AND 5, CALEDONIA CENTER, O'FALLON, MO
63368

STORM SITE PLAN

PART OF SECTION 13, TOWNSHIP 46 NORTH, RANGE 2 EAST, ST. CHARLES COUNTY, MO.

SHEET NO.
C605

PROJECT NO.
W23.0784

LOCATION: Z:\2023\W23.0784 - STL\Engineering\Landxml\Lxmsetup\W23.0784STL-C600 storm prof&SS to new.dwg
USER NAME: dobkowski
DATE/TIME: December 31, 2024 - 5:00pm
PLOTTED By: Dobkowski