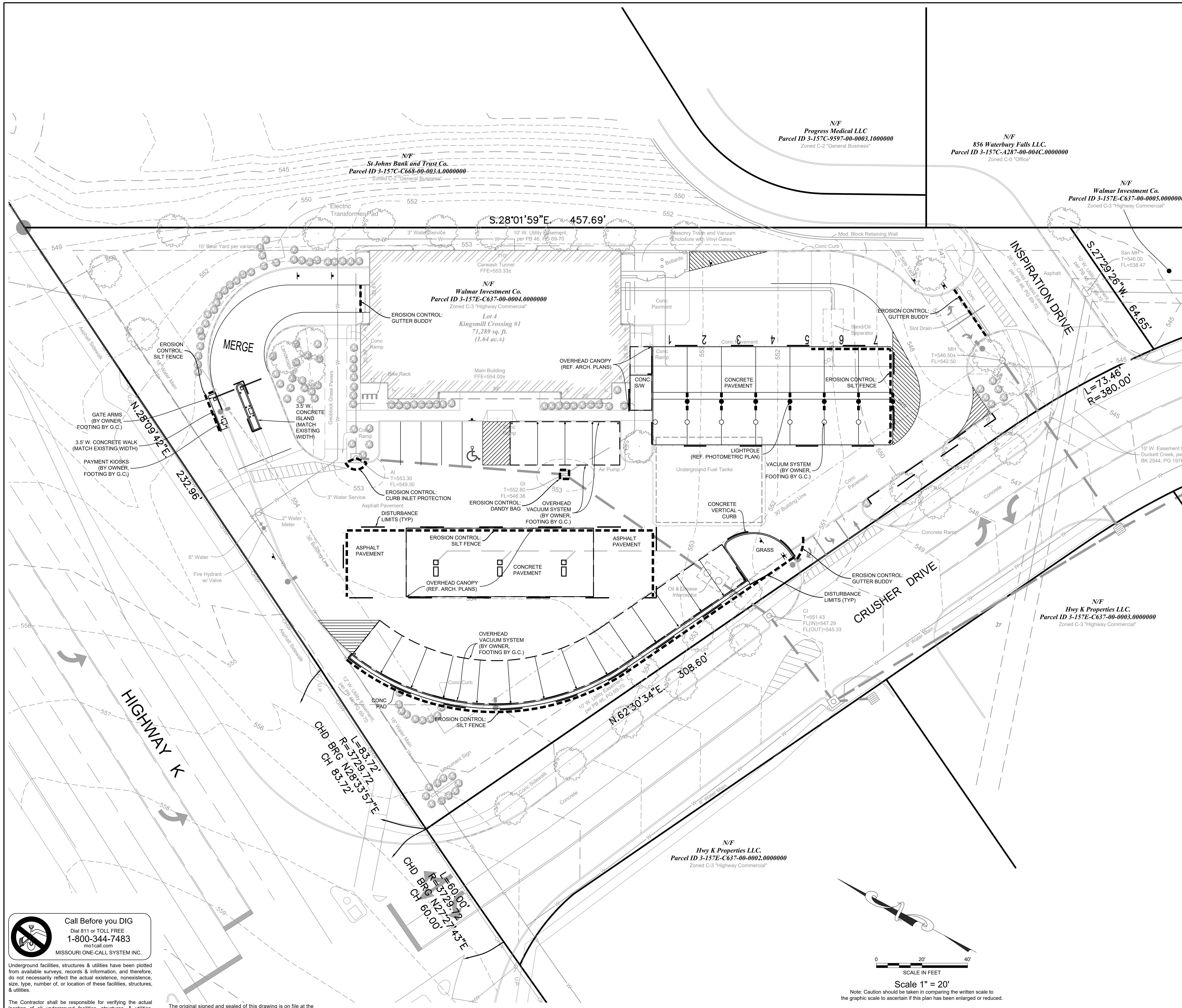

Scale 1" = 20'

Note: Caution should be taken in comparing the written scale to the graphic scale to ascertain if this plan has been enlarged or reduced.

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Underground facilities, structures & utilities have been plotted from available surveys, records & information, and therefore, do not necessarily reflect the actual existence, nonexistence, size, type, number of, or location of these facilities, structures, & utilities.

The Contractor shall be responsible for verifying the actual location of all underground facilities, structures, & utilities, either shown or not shown on these plans. The underground facilities, structures, & utilities shall be located in the field prior to any grading, excavation or construction of improvements. These provisions shall in no way absolve any party from complying with the Underground Facility Safety and Damage Prevention Act.

The original signed and sealed of this drawing is on file at the office of The Clayton Engineering Company. Any modifications to this drawing shall release said The Clayton Engineering Company. the Engineer and/or Surveyor whose seal appears hereon from any liability resulting from said unauthorized modifications. The signed and sealed original is the official document and shall take precedence over any digital version.

CONSTRUCTION & EROSION CONTROL NOTES:

1. THE PERMITTEE SHALL ASSUME COMPLETE RESPONSIBILITY FOR CONTROLLING ALL SILTATION AND EROSION OF THE PROJECT AREA. THE PERMITTEE SHALL USE WHATEVER MEANS NECESSARY TO CONTROL EROSION AND SILTATION INCLUDING, BUT NOT LIMITED TO, STAKED STRAW BALES AND/OR SILTATION FABRIC FENCES (POSSIBLE METHODS OF CONTROL ARE DETAILED IN THE PLAN). CONTROL SHALL COMMENCE WITH THE CLEARING OPERATIONS AND BE MAINTAINED THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY THE CITY OF OFALLON AND AS NECESSARY BY MODOT. THE PERMITTEES RESPONSIBILITIES INCLUDE ALL DESIGN AND IMPLEMENTATION AS REQUIRED TO PREVENT EROSION AND THE DEPOSITING OF SILT. THE CITY OF OFALLON AND AS REQUIRED BY MODOT MAY AT THEIR OPTION DIRECT THE PERMITTEE IN HIS METHODS AS DEEMED FIT TO PROTECT PROPERTY AND IMPROVEMENTS. ANY DEPOSITING OF SILT OR MUD ON NEW OR EXISTING PAVEMENT SHALL BE REMOVED IMMEDIATELY. ANY DEPOSITING OF SILTS OR MUD IN NEW OR EXISTING STORM SEWERS OR SWALES SHALL BE REMOVED AFTER EACH RAIN AND AFFECTED AREAS CLEANED TO THE SATISFACTION OF THE CITY OF OFALLON AND AS REQUIRED BY MODOT.
2. INTERIM STORM WATER DRAINAGE CONTROLS IN THE FORM OF SILTATION CONTROL MEASURES ARE REQUIRED.
3. DAMAGE TO OFFSITE STREETS AND DOWNSTREAM PROPERTIES DUE TO SOIL EROSION OR SILTATION SHALL BE PREVENTED BY ERECTING SILT BARRIERS OR BASINS, OR BY UTILIZING SIMILAR DEVICES TO EFFECT SOIL STABILIZATION PRIOR TO THE START OF ANY GRADING OPERATIONS.
4. PROTECTIVE MEASURES SHALL BE INSTALLED DOWN SLOPE OF EVERY LOCATION WHERE THE ORIGINAL GROUND IS TO BE DISTURBED.
5. STORM WATER PIPES, OUTLETS AND CHANNELS SHALL BE PROTECTED BY SILT BARRIERS AND KEPT FREE OF WASTE AND SILT AT ALL TIMES PRIOR TO FINAL SURFACE STABILIZATION AND PAVING.
6. INSPECTION OF AND NECESSARY REPAIRS TO THE EROSION AND SILT CONTROL MEASURES MUST BE MADE DAILY AND/OR FOLLOWING PERIODS OF PRECIPITATION.
7. ANY LAND CLEARING, CONSTRUCTION, OR DEVELOPMENT INVOLVING THE MOVEMENT OF EARTH SHALL BE IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN, AND THE PERSON ISSUED A LAND DISTURBANCE PERMIT ASSUMES AND ACKNOWLEDGES RESPONSIBILITY FOR COMPLIANCE WITH THE CITY OF O'FALLON LAND DISTURBANCE CODE AND THE APPROVED STORM WATER POLLUTION PREVENTION PLAN AT THE SITE OF THE PERMITTED ACTIVITY.
8. THE PROPOSED IMPROVEMENTS SHALL DISTURB LESS THAN ONE ACRE, SO A LAND DISTURBANCE PERMIT FROM THE STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES (MDNR) WILL NOT BE REQUIRED.
9. THE SILT CONTROLS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND DISTURBANCE.
10. ADDITIONAL SILTATION CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY THE CITY OF O'FALLON AND/OR MNDR.
11. UPON COMPLETION OF CONSTRUCTION OR COMPACTION, SLOPES STEEPER THAN 5:1 SHALL BE PROTECTED BY SODDING (OR APPROVED EQUAL). IN ADDITION, ALL SWALES, CHANNELS AND DETENTION BASINS SHALL BE PROTECTED BY SODDING. ALL OTHER AREAS DISTURBED BY GRADING OPERATIONS TO BE PROTECTED BY SODDING AS SOON AS POSSIBLE. SEEDING AND MULCHING SHALL BE USED AS A TEMPORARY MEASURE DURING CONSTRUCTION (SEE SWPPP DETAILS - SEEDING & MULCHING SCHEDULES).
12. AN APPROVED EROSION CONTROL BLANKET MAY BE USED AS A TEMPORARY EROSION CONTROL MEASURE ON SLOPES STEEPER THAN 5:1 PER APPROVAL OF ENGINEER AND THE CITY OF O'FALLON.
13. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DURING CONSTRUCTION THAT ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING TEMPORARY AND/OR INTERIM EROSION CONTROL MEASURES DURING CONSTRUCTION PROGRESSION OR AS REQUIRED BY CITY/MDNR INSPECTOR. ANY CHANGES/ADDITIONS TO THE SWPPP PLAN SHALL BE DOCUMENTED BY THE CONTRACTOR AND REMAIN ON FILE AT THE SITE.
14. THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT OCCURS TO THE EXISTING LOCAL PUBLIC STREETS RESULTING FROM WORK ON THIS SITE.
15. A CONCRETE WASHDOWN AREA SHALL BE DEDICATED ON THE SITE.
16. DUST CONTROL SHALL BE UTILIZED FOR THIS PROJECT.
17. CONTRACTOR TO PROVIDE SUFFICIENT TEMPORARY TOILET FACILITIES TO SERVE THE NUMBER OF WORKERS ONSITE.
18. EXISTING ONSITE PAVEMENT SHALL SERVE AS A CONSTRUCTION ENTRANCE AND/OR STAGING AREA. THESE AREAS MUST BE PROTECTED FROM EROSION. A WASHDOWN STATION MUST BE INSTALLED WITH THE CONSTRUCTION ENTRANCE.

ROUTINE INSPECTION SCHEDULE

The permit-holder shall contact the CITY/COUNTY/MDNR Inspector for a site inspection at least two working days prior to the following:

1. Start of construction;
2. Installation of sediment and erosion control measures;
3. Completion of site clearing;
4. Completion of rough grading;
5. Completion of final grading;
6. Close of construction season;
7. Completion of final landscaping.

Inspections by the permit-holder's inspector shall be regularly performed on land disturbance sites, including all erosion and sediment and other pollutant control measures, outfall and off-site receiving waters per the following schedule:

1. At least once per week;
2. No later than 48 hours after a rainfall that causes storm water runoff to occur onsite.

All inspections shall be documented in writing on weekly reports with copies submitted to the City of O'Fallon Stormwater Coordinator. Additional copies to be provided to COUNTY/MDNR, as required.

The permit-holder shall notify the Contractor of any deficiencies identified. The Contractor shall have seven calendar days to correct the deficiencies.

AMENDING THE STORM WATER POLLUTION PREVENTION PLAN

THE PERMIT-HOLDER SHALL AMEND THE STORM WATER POLLUTION PREVENTION PLAN WHENEVER:

1. DESIGN, OPERATION OR MAINTENANCE OF BEST MANAGEMENT PRACTICES (BMP'S) IS CHANGED.
2. DESIGN OF THE CONSTRUCTION PROJECT IS CHANGED THAT COULD SIGNIFICANTLY AFFECT THE QUALITY OF THE STORM WATER DISCHARGES.
3. SITE OPERATOR'S INSPECTIONS INDICATE DEFICIENCES IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) OR ANY BEST MANAGEMENT PRACTICES (BMP'S).
4. INSPECTIONS BY A LOCAL AUTHORITY OR BY THE MISSOURI DEPARTMENT OF NATURAL RESOURCES INDICATE DEFICIENCIES IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) OR ANY BEST MANAGEMENT PRACTICES (BMP'S).

DEWATERING PROCEDURES

1. ALTHOUGH NO DEWATERING ACTIVITIES ARE ANTICIPATED FOR THIS PROJECT, IF THEY BECOME NECESSARY DUE TO UNFORSEEN CIRCUMSTANCES, THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE RULES AND REGULATIONS FOR DEWATERING, THESE INCLUDE BUT ARE NOT LIMITED TO THE CITY OF O'FALLON, MDNR, ST. CHARLES COUNTY, AND THE EPA.
2. DURING DEWATERING ACTIVITIES, STANDING "CLEAR, UNPOLLUTED WATER" CAN BE DECANTED AND DISCHARGED TO THE STORM SYSTEM. WATER THAT HAS BECOME TURBID DURING CLEANING SHOULD BE EITHER, (1) PUMPED AND HAULED TO AN ACCEPTABLE WASTEWATER DISPOSAL FACILITY OR (2) TREATED BY FILTRATION, SUCH AS PUMPED THROUGH A BAG FILTER AND DISCHARGED TO THE SANITARY SEWER SYSTEM.
3. THE CONTRACTOR SHALL CONTACT THE CITY OF O'FALLON AND FOLLOW ANY RULES & REGULATIONS THEY IMPOSE PRIOR TO DISCHARGING TO THE SANITARY SYSTEM. THE FLOW RATE PUMPED INTO THE SANITARY SYSTEM SHALL NOT EXCEED 50 GPM.

DEFINITIONS

CLEAR WATER: WATER THAT HAS SETTLED ITS SOLIDS FOR 24 HOURS AND CAN BE PUMPED OUT OF THE BMP WITHOUT RE-SUSPENDING THE SOLIDS.

UNPOLLUTED WATER: DEFINED AS MEANING "ANY WATER THAT MAY BE DISCHARGED UNDER NPDES REGULATIONS INTO WATERS OF THE STATE WITHOUT HAVING TO BE AUTHORIZED BY A NPDES PERMIT AND WHICH WILL NOT CAUSE ANY VIOLATIONS OF STATE OR FEDERAL WATER QUALITY STANDARDS.

CONTAINMENT FAILURE PLAN

IN THE EVENT OF ANY LOSS OF CONTAINED SEDIMENT:

1. REPAIR ANY DAMAGED SILTATION FENCES.
2. CLEAN UP ANY NECESSARY SILTED AREAS.
3. RESTORE ANY NECESSARY SILTED AREAS.
4. PROVIDE DOCUMENTATION OF ACTIONS & MANDATORY REPORTING TO CITY OF O'FALLON DEPARTMENT OF PUBLIC WORKS.

QUANTITY	ITEM	EMERGENCY REPAIR QUANTITY (15%)
510 LF	SILTATION CONTROL FENCE	76 LF
1 EA	CURB INLET PROTECTION	1 EA
50 LF	GUTTER BUDDY	8 LF
1 EA	DANDY BAG	1 EA

(ALL QUANTITIES FOR PERMITTING PURPOSES ONLY, CONTRACTOR TO CALCULATE OWN QUANTITIES FOR BIDDING; SEED & MULCH NOT SHOWN, AS THESE WILL ONLY BE USED AS TEMPORARY EROSION CONTROL MEASURES. SOD IS TO BE USED FOR ALL PERMANENT INSTALLATIONS.

Additional erosion control measures may be required during construction that are not shown on these plans. Contractor is responsible for installing and maintaining temporary and/or interim erosion control measures during construction progression or as required by the City of O'Fallon, St. Charles County and/or MDNR Inspector. Any changes/additions to the Storm Water Pollution Prevention Plan (SWPPP) shall be documented by the contractor and remain on file at the site.

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IL Dept. Financial & Prof. Reg. Prof. Design & Engineering Corp. #184.000879

REVISIONS

F.B.

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Prepared for:
WATERWAY GAS & WASH
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SWPPP

WATERWAY GAS & WASH

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O'Fallon, MO 63368

STATE OF MISSOURI
JOHN R. WILLHITE
PE-2018000295
PROFESSIONAL ENGINEER
07-29-2021

Designed	JRW
Drawn	JRW
Checked	JRW
Date	07-29-2021

Project Number
05048-2

Sheet Number
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