

## UTILITY NOTES:

1. THE CONTRACTOR IS OBLIGATED TO INSPECT FOR EXISTING CONDITIONS/INSTALLATIONS AND AVAILABLE INFORMATION PRIOR TO SUBMITTING A BID. REFER TO SPECIFICATIONS ALSO.
2. EXISTING INSTALLATIONS (SUCH AS WATER MAINS/LINES, GAS MAINS/LINES, SEWER MAINS/LINES, TELEPHONE LINES, POWER LINES, AND UTILITY STRUCTURES IN THE VICINITY OF THE WORK TO BE DONE) ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT THAT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER IN PREPARING THE DRAWINGS. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION, AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING ALL EXISTING INSTALLATIONS.
4. ANY DELAY, ADDITIONAL WORK, FEES OR EXTRA COST TO THE CONTRACTOR CAUSED BY OR RESULTING FROM DAMAGE TO OR MODIFICATION OF EXISTING INSTALLATIONS BY THE CONTRACTOR OR AFFECTED UTILITY COMPANY SHALL NOT CONSTITUTE A CLAIM FOR EXTRA WORK, ADDITIONAL PAYMENT OR DAMAGES.
5. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONSTRUCTION PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS/INSTALLATIONS.

## UTILITY GENERAL NOTES:

1. WATER LINES SHALL HAVE A MIN. 10 FEET HORIZONTAL CLEARANCE AND 18 INCHES VERTICAL CLEARANCE (MEASURED FROM EDGE OF PIPE TO EDGE OF PIPE) FROM ALL SANITARY AND STORM SEWER LINES.
2. WATER LINES SHALL HAVE A MINIMUM OF 42 INCHES OF COVER, UNLESS OTHERWISE NOTED, MEASURED FROM THE TOP OF FINISHED GROUND TO THE TOP OF PIPE.
3. THERE SHALL BE A MINIMUM OF 18 INCHES CLEARANCE, MEASURED FROM THE BOTTOM OF ANY STORMWATER PIPE TO THE TOP OF WATER LINES AT ALL CROSSINGS.
4. AT WATER AND SANITARY SEWER CROSSINGS, THE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED.
5. THE GENERAL CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
6. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
7. NOTICE TO CONTRACTOR PRIOR TO INSTALLATION OF WATER LINE, THE CONTRACTOR SHALL EXCAVATE, VERIFY, AND CALCULATE ALL CROSSINGS AND INFORM THE OWNER AND ANDERSON ENGINEERING OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
8. COORDINATE ALL CONSTRUCTION WITH THE CITY OF CASSVILLE. ALL SANITARY SEWER AND WATER LINE CONSTRUCTION MUST COMPLY WITH THE CITY OF CASSVILLE, MO STANDARDS.
9. CONTRACTOR TO PROVIDE SANITARY SEWER CLEANOUTS EVERY 50' TO ALLOW ACCESS FOR CLEANING.

## GENERAL NOTES:

- A. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- B. SITE CONDITIONS BASED UPON SURVEY SUBMITTED BY OWNER. FIELD VERIFY EXISTING CONDITIONS BY DETAILED SITE INSPECTION PRIOR TO SUBMITTING BID AND BEGINNING CONSTRUCTION.
- C. FIELD VERIFY SANITARY SEWER SERVICE CONNECTION INVERT PRIOR TO ESTABLISHING FINAL FINISH FLOOR ELEVATION.
- D. COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.

SANITARY SEWER  
TOP-1341.4  
FL-1334.5 IN NW.  
FL-1334.4 OUT SE.

## SAFETY NOTES:

1. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
2. THE DUTY OF THE ENGINEER OR OWNER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

## GENERAL NOTES:

1. SITE CONDITIONS BASED UPON SURVEY SUBMITTED BY OWNER. THE CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LINES AND GRADES OF EXISTING UTILITIES PRIOR TO THE CONSTRUCTION OF IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING A DISCREPANCY BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS. CONTACT ONE CALL: 1-800-344-7463.
2. THE CONTRACTOR MUST COORDINATE CONSTRUCTION WITH THE NECESSARY AUTHORITIES.
3. APPLICABLE PERMITS MUST BE OBTAINED PRIOR TO EXCAVATION WITHIN ANY RIGHT-OF-WAY, AND PRIOR TO ANY CONSTRUCTION.
4. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS WITHOUT PONDING ON PARKING LOTS OR SIDEWALKS.
5. ALL IMPROVED RUNOFF TO DRAIN TO DRAINWAYS.
6. ALL CONTOURS AND SPOT ELEVATIONS SHOWN ARE FINISH GRADE.
7. THE REMOVAL OF ANY TREES SHALL BE APPROVED BY THE PROJECT MANAGER PRIOR TO REMOVAL.
8. COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.
9. TESTING OF CONTROLLED STRUCTURAL FILL, OBSERVATION OF EXCAVATIONS AND COMPACTION OF SUBGRADE SHALL BE DONE BY A QUALIFIED GEOTECHNICAL ENGINEER. FOLLOW GEOTECHNICAL ENGINEER RECOMMENDATIONS FOR SITE EXCAVATION REQUIREMENTS.
10. REFER TO STRUCTURAL DRAWINGS FOR BUILDING EXCAVATION REQUIREMENTS.
11. GRADING AT HANDICAP ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2% IN ANY DIRECTION. GRADING AT HANDICAP ACCESSIBLE ROUTE SHALL NOT EXCEED 5% IN DIRECTION OF TRAVEL WITH 2% MAXIMUM CROSS SLOPE. GRADING AT BUILDING EGRESS DOORS SHALL NOT EXCEED 2% FOR A DISTANCE OF 5'-0" PERPENDICULAR FROM FACE OF DOOR.

## KEY NOTES:

- U1 PROPOSED SANITARY SEWER SERVICE. REFER TO PLUMBING PLAN FOR CONTINUATION. APPROX. ELEVATION = 1343.5' (ASSUMED).
- U2 6"Ø SDR-35 PVC SANITARY SEWER SERVICE @ MIN. 1% SLOPE.
- U3 INSTALL DOUBLE SWEEP SANITARY SEWER CLEANOUT. REFER TO DETAIL 2/C6.
- U4 NEW SANITARY SEWER CONNECTION TO EXISTING MAIN UPSTREAM OF EXISTING MANHOLE @ INV = 1334.6'. CONTRACTOR SHALL EXPOSE MAIN, CITY WILL PROVIDE AND INSTALL A SERVICE SADDLE. CONTRACTOR SHALL VERIFY LOCATION & ELEVATION OF EXISTING MAIN PRIOR TO CONSTRUCTION.
- U5 PROPOSED DOMESTIC WATER SERVICE. REFER TO PLUMBING PLAN FOR CONTINUATION.
- U6 1"Ø DOMESTIC WATER SERVICE PER CITY STANDARDS. CONTRACTOR SHALL CONFIRM ROUTE WITH OWNER & UTILITY COMPANY.
- U7 CITY TO INSTALL NEW 1"Ø DOMESTIC WATER METER ASSEMBLY AT NO COST TO THE CONTRACTOR.
- U8 NEW DOMESTIC WATER SERVICE CONNECTION. CONTRACTOR SHALL CONFIRM ROUTE & TAP REQUIREMENTS WITH OWNER & UTILITY COMPANY.
- U9 NEW GAS METER & SERVICE BY GAS COMPANY. REFER TO PLUMBING PLAN FOR CONTINUATION.
- U10 NEW GAS SERVICE. COORDINATE WITH GAS COMPANY TO CONFIRM ROUTE & TAP REQUIREMENTS.
- U11 NEW GAS SERVICE CONNECTION TO EXISTING GAS MAIN. CONTRACTOR SHALL CONFIRM ROUTE & TAP REQUIREMENTS WITH GAS COMPANY.
- U12 CAUTION!!! UTILITY CROSSING.
- U13 GENERATOR. REFER TO MEP PLANS FOR ADDITIONAL DETAIL.
- U14 PROPOSED LOCATION OF NEW ELECTRICAL TRANSFORMER. REFER TO ELECTRICAL PLAN FOR DETAILS.
- U15 INSTALL ELECTRICAL SERVICE. REFER TO ELECTRIC POWER PLAN PRIOR TO INSTALLATION. CONTRACTOR TO COORDINATE WITH CITY UTILITIES TO CONFIRM LOCATION AND REQUIREMENTS.
- U16 INSTALL UNDERGROUND ELECTRIC SERVICE.
- U17 NO LONGER UTILIZED.
- U18 INSTALL BLOWOFF ASSEMBLY. REFER TO DETAIL 3/C6.
- U19 OIL INTERCEPTOR, REFER TO WASTE AND VENT PIPING PLAN FOR LOCATION AND CONTINUATION.
- U20 HVAC UNITS. REFER TO MEP PLAN FOR ADDITIONAL DETAIL.
- U21 CONCRETE UTILITY PAD. REFER TO MEP AND PAGE C1 FOR ADDITIONAL DETAILS.

## EXISTING CONDITIONS NOTES:

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## UTILITIES INFORMATION

WATER & SANITARY SEWER: CITY OF CASSVILLE  
7TH & MILL ST.  
CASSVILLE, MO 65625  
(417) 847-4441

GAS: MISSOURI GAS ENERGY/SPIRE  
(800) 582-1234

ELECTRIC: BARRY ELECTRIC  
(417) 847-2131

## CONTRACTOR CAUTION!! VERIFY SEWER LINE ELEVATION

BEFORE STARTING ANY BUILDING PAD GRADING AND PLUMBING WORK THE CONTRACTOR SHALL FIELD VERIFY LOCATION, MATERIAL CONDITION, ACCESSIBILITY (INCLUDING STATE HIGHWAY OR OTHER RIGHTS-OF-WAY) AND WORKABLE FLOW LINE ELEVATION OF THE EXISTING SANITARY SEWER SERVICE LINE OR MAIN.

IF A WORKABLE FLOW LINE HAS NOT BEEN ESTABLISHED AT THE TIME OF FINAL SANITARY SEWER SERVICE CONNECTION, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXPENSES ASSOCIATED WITH THE INSTALLATION OF A NEW GRINDER PUMP SYSTEM TO MEET OWNER AND LOCAL REQUIREMENTS.

### SPECIAL NOTE:

CONTRACTOR IS RESPONSIBLE FOR ALL PUBLIC UTILITY CONNECTIONS (ELECTRIC, WATER, GAS, SEPTIC, SEWER) AS WELL AS PROVIDING ALL INFRASTRUCTURE REQUIRED BY UTILITY COMPANIES.

### CAUTION:

INFORMATION ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

### SPECIAL NOTE:

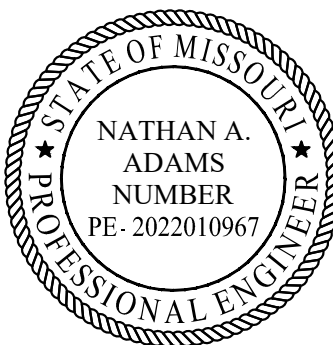
FIELD VERIFY SANITARY SEWER CONNECTION INVERT PRIOR TO ESTABLISHING FINAL FINISH FLOOR ELEVATION. REFER TO SITE UTILITIES PLAN.

### SPECIAL NOTE:

ANY BELOW-GRADE UTILITIES ENTERING THE BUILDING SHOULD HAVE CLAY STOPS PLACED AROUND THE UTILITY TO REDUCE WATER IN THE UTILITY TRENCH BACKFILL FROM ENTERING BELOW THE FOOTING AND/OR SLAB CAUSING SWELLING.

### SPECIAL NOTE:

PRIOR TO BEGINNING ANY SITE WORK & ORDERING OF MATERIALS, CONTRACTOR SHALL FIELD VERIFY ALL UTILITY & DRAINAGE CONNECTIONS TO EXISTING SYSTEMS BY POT HOLLING AND SHALL NOTIFY ENGINEER OF NEEDED CHANGES. FAILURE TO DO SO WILL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR ALL REVISION COSTS AND DELAYS.



06/29/2023

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### Structural Engineer

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Project Status

REVISION SCHEDULE

PROJECT DESCRIPTION

PUBLIC WORKS FACILITY

2200 INDUSTRIAL PARK RD, CASSVILLE, MO 65625

PROJECT ARCHITECT:  
DRAWN BY:  
CHECKED BY:

PROJECT NUMBER:  
**23-777**

DATE:  
06/29/2023

SITE UTILITY  
PLAN

SHEET NUMBER:

**C5**

## 1 SITE UTILITY PLAN

C5 SCALE: 1" = 30'

