OWNER:

CITY OF DUQUESNE

CONTACT: BILL SHERMAN

1501 S. DUQUESNE RD
DUQUESNE, MO 64801

ENGINEER:

OWN, INC.

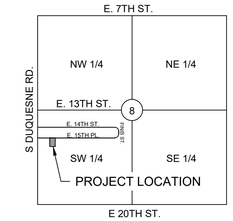
CONTACT: JOSHUA OATHOUT, PE
SCOTT WAGONER

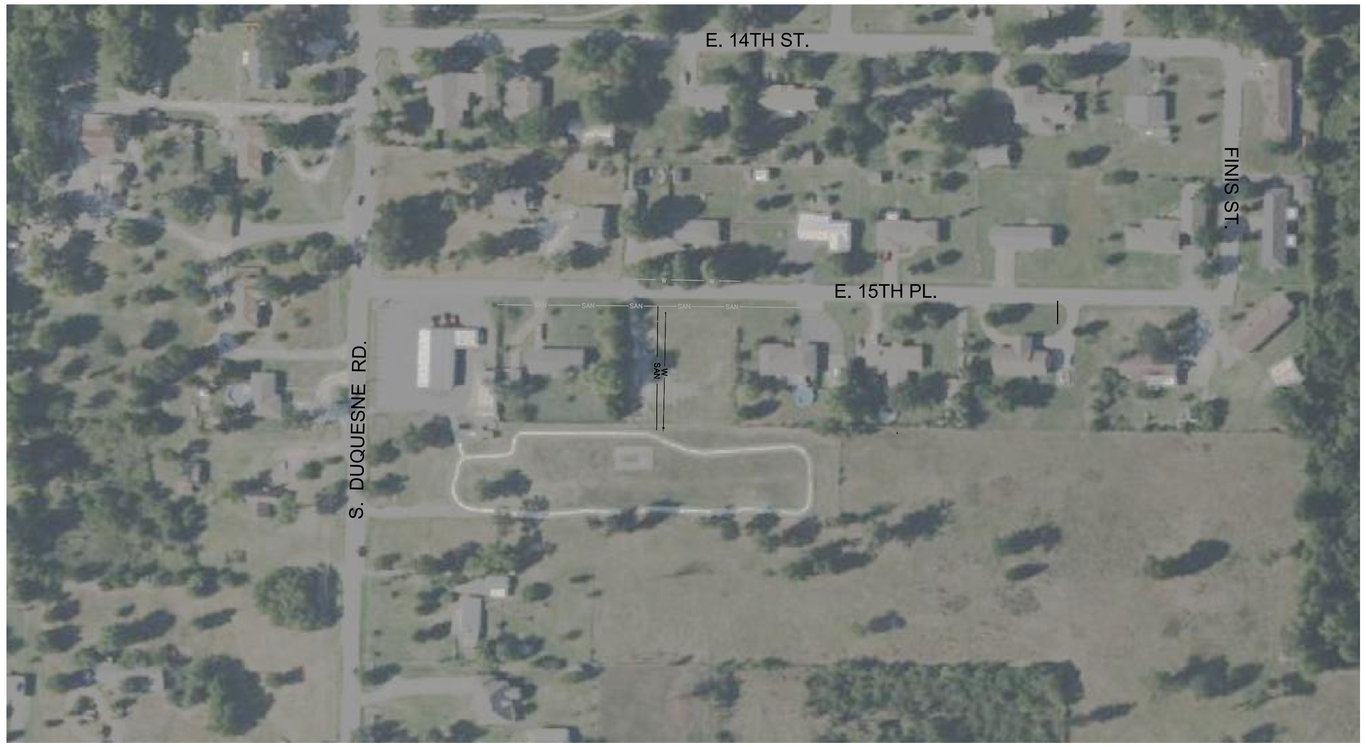
811 E. THIRD STREET
JOPLIN, MO 64801
P: (417) 782-7399
E: JOUTHOUT@WEAREOWN.COM
SWAGONER@WEAREOWN.COM

DUQUESNE WATER AND SEWER EXTENSION

1501 S. DUQUESNE RD DUQUESNE, MO 64801

LOCATION MAP
SECTION 8, TOWNSHIP 27N, RANGE 32W
JASPER COUNTY, MISSOURI
SCALE=NTS





SHEET LIST TABLE	
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C1	COVER PAGE
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C4	PUBLIC SANITARY SEWER NOTES
C5	PUBLIC WATER PLAN
C6	CONSTRUCTION DETAILS

CAUTION:

EXISTING SURFACE FEATURES, STRUCTURES, ETC. AND UNDERGROUND INSTALLATIONS SUCH AS WATER MAIN, GAS MAINS, SEWERS, TELEPHONE LINES, FIBER OPTIC LINES AND BURIED STRUCTURES ARE INDICATED ON THE DRAWING ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE SURVEYOR IN PREPARING THIS DRAWING. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION. 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.

DISCLAIMER:

THIS PROPERTY LIES WITHIN JASPER COUNTY MISSOURI AND IS SUBJECT TO THE ENVIRONMENTAL CONTAMINATION ORDINANCE. IT IS THE OWNERS RESPONSIBILITY TO MAKE SURE THAT THE PROPOSED CONSTRUCTION OUTLINED IN THIS PLAN SET ARE IN COMPLIANCE OF SAID ORDINANCE, AS WELL AS ANY AND ALL WETLAND DETERMINATIONS THAT MAY BE PRESENT ON SITE, PRIOR TO ANY CONSTRUCTION OR EARTHMOVING OPERATIONS. THE OWNER AND OR DEVELOPER ARE RESPONSIBLE FOR ANY COSTS OF CIVIL ENGINEERING DESIGN, MEETINGS, CORRESPONDENCE, TESTING, REMOVAL OF CONTAMINANTS, REMEDIATION, ETC. ASSOCIATED WITH MEETING THE REQUIREMENTS OF THIS AND ANY OTHER MINING OR SITE CONTAMINATION ORDINANCE.

GENERAL NOTES

1. THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. NEITHER THE ENGINEER NOR ITS PERSONNEL CAN OR DO WARRANT THESE DESIGNS OR PLANS AS CONSTRUCTED EXCEPT IN THE SPECIFIC CASES WHERE THE ENGINEER INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THIS SITE.
2. CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE PROJECT DOCUMENTS & PER THE CITY OF DUQUESNE, MO STANDARDS & SPECIFICATIONS.
3. 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 DISCOVERY OF A DISCREPANCY BETWEEN CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS.
4. APPLICABLE PERMITS MUST BE OBTAINED FROM THE CITY, STATE AND COUNTY PRIOR TO EXCAVATION WITHIN ANY RIGHT-OF-WAY, AND PRIOR TO ANY CONSTRUCTION.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF ANY UNDERGROUND UTILITIES OR OTHER OBSTRUCTIONS AND TO BE LIABLE FOR DAMAGE AND CONSEQUENT REPAIR TO SUCH IN THE COURSE OF HIS OPERATIONS.
6. THE CONTRACTOR AND/OR BUILDER WILL KEEP THE SUBDIVISION NEAT AND ORDERLY AT ALL TIMES WHILE CONSTRUCTION IS TAKING PLACE. ALL CITY STREETS ADJACENT TO THE DEVELOPMENT SHALL BE KEPT CLEAR OF MUD, ROCK, DIRT, DEBRIS, PAPER AND WASTE MATERIAL AT ALL TIMES. THE PROPER AMOUNT OF INSPECTION SHALL BE CALLED FOR AT THEIR PROPER TIMES, OR ANY AND ALL WORK MAY BE REJECTED.
7. IF ANY WORK OR ACCESS TO ANY ADJOINING PROPERTY IS DONE, IT IS THE FULL RESPONSIBILITY OF THE APPLICANT/OWNER TO OBTAIN PROPER RELEASES FROM ADJOINING PROPERTY OWNERS AND ASSUME ALL LIABILITY FOR ACTION TAKEN DURING ALL CONSTRUCTION.
8. ALL DISTURBED AREAS ARE TO BE RE-SEEDED IN ACCORDANCE WITH THE APPROVED PLANS AND DEPARTMENT OF NATURAL RESOURCES STANDARDS.
9. CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ANY EXISTING STREET, CURB AND GUTTER, SIDEWALK AND DRIVEWAYS.
10. THE CONTRACTOR SHALL HAVE ON SITE A SET OF PLANS. THE CONTRACTOR SHALL HAVE ON THE PROJECT AT ALL TIMES, AS HIS AGENT, A COMPETENT SUPERINTENDENT CAPABLE OF READING AND THOROUGHLY UNDERSTANDING THE PLANS AND SPECIFICATIONS, THOROUGHLY EXPERIENCED IN THE TYPE OF WORK BEING PERFORMED, AND WHO SHALL RECEIVE INSTRUCTIONS FROM THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
11. ALL TRENCHES, WHICH LIE UNDER PROPOSED PAVEMENT OR LIE WITHIN TWO FEET OF THE BACK OF CURB SHALL BE BACKFILLED TO PAVEMENT SUBGRADE WITH COMPACTED GRANULAR MATERIAL.
12. MANHOLE COVERS, VALVE BOXES AND OTHER UTILITY APPURTENANCES SHALL NOT ENCROACH ON SIDEWALKS, CURBS OR PAVEMENT. WHERE CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR INSTRUCTION PRIOR TO PROCEEDING.
13. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY NEW SINKHOLES, MINE FEATURES OR OTHER GEOLOGIC ANOMALIES DISCOVERED DURING CONSTRUCTION.
14. THE CONTRACTOR IS RESPONSIBLE FOR ALL METHODS, SEQUENCING, AND SAFETY CONCERNS ASSOCIATED WITH THIS PROJECT DURING CONSTRUCTION, UNLESS SPECIFICALLY ADDRESSED OTHERWISE IN THIS PLAN OR ELSEWHERE IN THE CONTRACT.
15. THE QUANTITIES AND SITE CONDITIONS DEPICTED IN THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE SUBJECT TO ERROR AND OMISSION. CONTRACTORS SHALL SATISFY THEMSELVES AS TO ACTUAL QUANTITIES AND SITE CONDITIONS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THIS PLAN.
16. A REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES AND UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND/OR FACILITIES CAUSED DURING THEIR CONSTRUCTION OPERATIONS.
17. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION OF CONSTRUCTION AFFECTING UTILITIES AND THE COORDINATION OF ANY NECESSARY UTILITY RELOCATION WORK.
18. COORDINATION BETWEEN ALL PARTIES IS AN ESSENTIAL PART OF THE CONTRACT.

1"=100'
100' 0 50' 100' 200'

N

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DUQUESNE, MO

REVISIONS		
NO.	DESCRIPTION	DATE
1	CITY COMMENTS	08/06/2024

DRAWING INFORMATION

PROJECT NO: 24JO10026
DRAWN BY: SW
CHECK BY: JO
ISSUED DATE: 08/06/2024

STATE OF MISSOURI
JOSHUA C. OATHOUT
NUMBER
PE-2021000279
PROFESSIONAL ENGINEER

ISSUED BY: JOSHUA OATHOUT
LICENSE NO: PE-2021000279

A licensed Missouri
Engineering Corporation
COA# 00062

SHEET TITLE

COVER PAGE

SHEET NUMBER

C1

G:\Shared drives_01_Land Development Eng_Projects\JO1\2024\24JO10026 Duquesne Water and Sewer Extension\01 Civil\CAD\Plan Sheets\C1 COVER PAGE.dwg

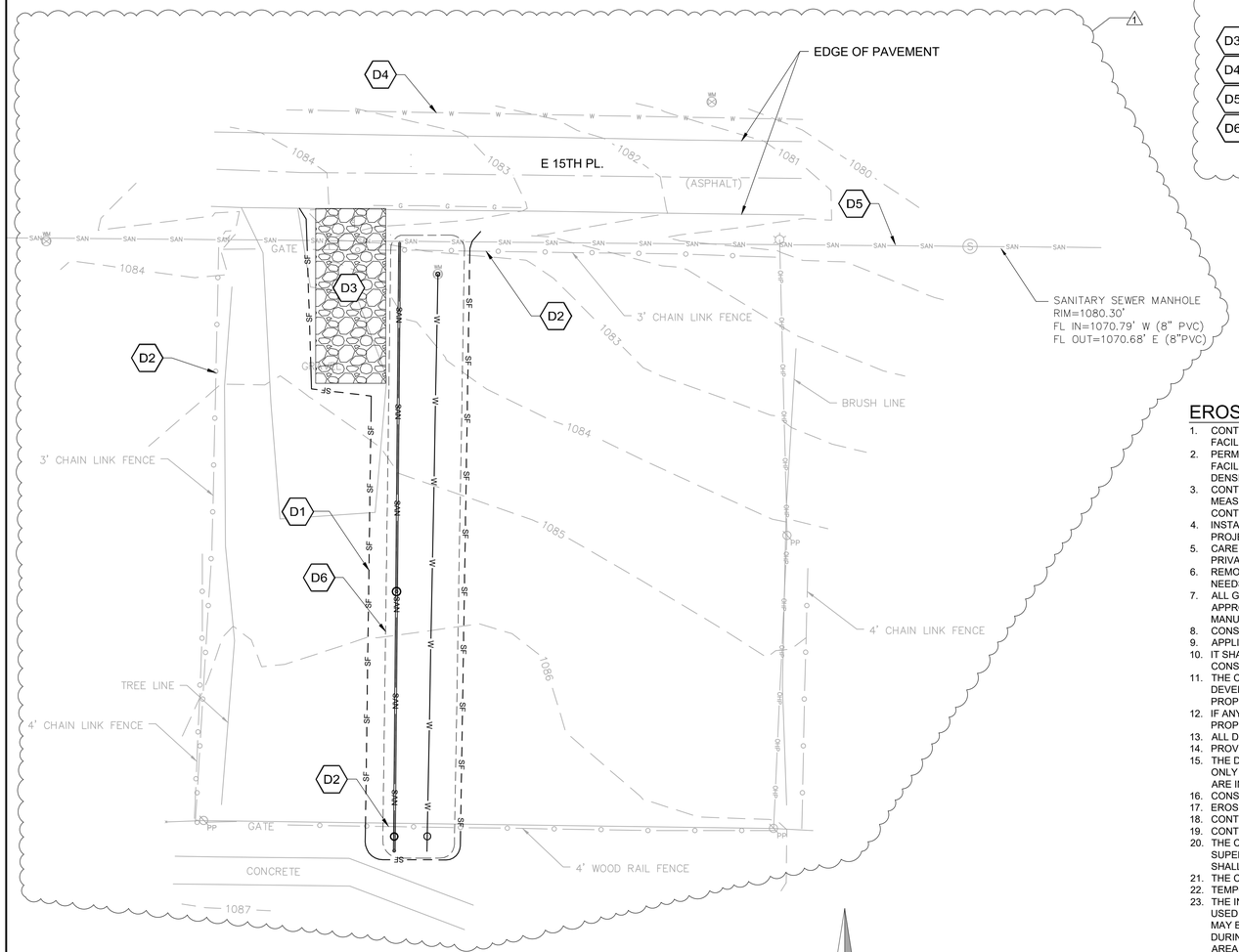
SPECIAL NOTE:
CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED AREAS OF PAVEMENT DUE TO CONSTRUCTION ACTIVITIES.

CAUTION:

EXISTING SURFACE FEATURES, STRUCTURES, ETC. AND UNDERGROUND INSTALLATIONS SUCH AS WATER MAINS, GAS MAINS, SEWERS, TELEPHONE LINES, FIBER OPTIC LINES AND BURIED STRUCTURES ARE INDICATED ON THE DRAWING ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE SURVEYOR IN PREPARING THIS DRAWING. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION. 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.

SWPPP KEY NOTES:

- D1 PLACE SILT SOCKS IN ACCORDANCE WITH EROSION CONTROL NOTES AND GRADING PLAN. DOUBLE OR TRIPLE STACK SILT SOCKS TO KEEP SEDIMENT FROM LEAVING PROJECT SITE. REFER TO DETAIL 2/C5.
- D2 CONTRACTOR TO COORDINATE WITH CITY OF DUQUESNE AND NEIGHBORING PROPERTY OWNER ON REMOVAL AND REPLACEMENT OF EXISTING FENCE IF NECESSARY.
- D3 CONSTRUCTION ENTRANCE 1/C6.
- D4 EXISTING WATER LINE.
- D5 EXISTING SEWER LINE.
- D6 LIMITS OF DISTURBANCE.



1 SWPPP
C2 SCALE: 1" = 20'

1"=20'
20' 0 10' 20' 40'

N

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

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LEGEND

REFER TO SURVEY FOR EXISTING CONDITION SYMBOLS LEGEND AND SITE CONTROL

W	EXISTING WATER LINE
SAN	EXISTING SEWER LINE
OHE	EXISTING OVERHEAD ELECTRIC LINE
SAN	PROPOSED SEWER LINE
W	PROPOSED WATER LINE

EROSION CONTROL NOTES:

1. CONTRACTOR TO RETAIN FLOATABLE WIND BLOWN MATERIALS ON SITE BY STORING ALL TRASH AND BUILDING MATERIAL WASTE IN ENCLOSURES UNTIL PROPER DISPOSAL AT OFF-SITE FACILITIES. CHECK ADJACENT AREAS DAILY AND PICK UP CONSTRUCTION WASTE MATERIALS AND DEBRIS THAT HAVE BLOWN OR WASHED OFF SITE.
2. PERMANENTLY STABILIZE ALL SURFACE AREA WITHIN AND ADJACENT TO THIS SITE THAT IS DISTURBED BY VEHICLES, GRADING AND OTHER CONSTRUCTION FOR THE PROPOSED FACILITY. STABILIZATION IS OBTAINED WHEN THE DISTURBED SURFACE IS COVERED WITH STRUCTURES, PAVING AND OR PERENNIAL VEGETATION HAVING A UNIFORM COVERAGE DENSITY OF AT LEAST 70%. STABILIZATION OF ALL DISTURBED AREA IS REQUIRED BEFORE TERMINATING MAINTENANCE AND REMOVAL OF EROSION CONTROL MEASURES.
3. CONTRACTORS SHALL INSPECT POLLUTION CONTROL MEASURES AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A STORM EVENT OF 1/2 INCH OR GREATER. DAMAGED MEASURES THAT PROVE TO BE INEFFECTIVE SHALL BE REPLACED WITH MORE EFFECTIVE MEASURES OR ADDITIONAL MEASURES WITHIN SEVEN DAYS. REPEATED FAILURE OF A CONTROL MEASURE REQUIRES INSTALLATION OF A MORE SUITABLE DEVICE TO PREVENT DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE.
4. INSTALLATION OF ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE CITY OR STATE. CONTRACTOR TO VERIFY REQUIREMENTS PRIOR TO BEGINNING ANY WORK ON PROJECT SITE.
5. CARE SHALL BE TAKEN TO ELIMINATE TO THE MAXIMUM EXTENT POSSIBLE THE ENCROACHMENT OF SEDIMENT INTO ALL STORM DRAIN APPURTENANCES, PUBLIC STREETS, AND ONTO PRIVATE PROPERTY UNTIL IMPERVIOUS MATERIAL (ROAD/PARKING AREA SURFACE) IS APPLIED OR UNTIL PROPOSED LANDSCAPE HAS BEEN ESTABLISHED.
6. REMOVE SEDIMENT DEPOSITS AS NECESSARY AFTER EACH STORM TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. CARE NEEDS TO BE TAKEN TO AVOID UNDERMINING THE FENCE WHEN REMOVING SEDIMENT. SEDIMENT IS TO BE REAPPLIED TO THE SITE AND STABILIZED.
7. ALL GRASS SLOPES WHICH EXCEED 3:1 (H:V) AND SELECT PIPE OUTFALLS SHALL UTILIZE CONTECH CONSTRUCTION PRODUCTS PERMANENT TURF REINFORCEMENT MATS 450 OR APPROVED EQUAL. MATS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND STANDARDS. CONTRACTOR SHALL COORDINATE INSTALLATION INSPECTION WITH MANUFACTURER.
8. CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST REVISIONS OF THE CITY OR COUNTY STANDARDS.
9. APPLICABLE PERMITS MUST BE OBTAINED FROM THE CITY, STATE AND COUNTY PRIOR TO EXCAVATION WITHIN ANY RIGHT-OF-WAY, AND PRIOR TO ANY CONSTRUCTION.
10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF ANY UNDERGROUND UTILITIES OR OTHER OBSTRUCTIONS AND TO BE LIABLE FOR DAMAGE AND CONSEQUENT REPAIR TO SUCH IN THE COURSE OF HIS OPERATIONS.
11. THE CONTRACTOR AND/OR BUILDER WILL KEEP THE SITE NEAT AND ORDERLY AT ALL TIMES WHILE CONSTRUCTION IS TAKING PLACE. ALL CITY STREETS ADJACENT TO THE DEVELOPMENT SHALL BE KEPT CLEAR OF MUD, ROCK, DIRT, DEBRIS, PAPER AND WASTE MATERIAL AT ALL TIMES. THE PROPER AMOUNT OF INSPECTION SHALL BE CALLED FOR AT THEIR PROPER TIMES, OR ANY AND ALL WORK MAY BE REJECTED.
12. IF ANY WORK OR ACCESS TO ANY ADJOINING PROPERTY IS DONE, IT IS THE FULL RESPONSIBILITY FOR THE APPLICANT/OWNER TO OBTAIN PROPER RELEASES FROM ADJOINING PROPERTY OWNERS AND ASSUME ALL LIABILITY FOR ACTION TAKEN DURING ALL CONSTRUCTION.
13. ALL DISTURBED AREAS ARE TO BE RE-SEEDED IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE CITY OR COUNTY STANDARDS.
14. PROVIDE TEMPORARY EROSION CONTROL TO CONTAIN ALL SOILS ON SITE. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
15. THE DETENTION BASIN, ALL WATER QUALITY MEASURES AND STORMWATER CHANNELS (PIPES) SHALL BE FUNCTIONING PRIOR TO STARTING ANY OTHER CONSTRUCTION ACTIVITIES. I.E., ONLY CONSTRUCTION ACTIVITIES REQUIRED TO INSTALL THE DETENTION BASIN, ALL WATER QUALITY MEASURES AND STORMWATER CHANNELS(PIPES) ARE ALLOWED UNTIL THESE ITEMS ARE INSTALLED AND APPROVED.
16. CONSTRUCTION ACCESS TO THE SITE SHALL BE LIMITED TO THE APPROVED TEMPORARY CONSTRUCTION ENTRANCE AS SHOWN ON THE STORMWATER POLLUTION PREVENTION PLAN.
17. EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING THE WHOLE CONSTRUCTION PERIOD BY THE CONTRACTOR.
18. CONTRACTOR TO PROTECT ANY STORM INLETS THAT RECEIVE STORM WATER FROM THE AREA OF CONSTRUCTION FROM SEDIMENT.
19. CONTRACTOR TO TAKE CARE NOT TO DAMAGE ANY EXISTING STREET, CURB AND GUTTER, SIDEWALK AND DRIVEWAYS.
20. THE CONTRACTOR SHALL HAVE A SET OF PLANS FILED WITH THE CITY OR COUNTY ON SITE. THE CONTRACTOR SHALL HAVE ON THE PROJECT AT ALL TIMES, AS HIS AGENT, A COMPETENT SUPERINTENDENT CAPABLE OF READING AND THOROUGHLY UNDERSTAND THE PLANS AND SPECIFICATIONS AND THOROUGHLY EXPERIENCE IN THE TYPE WORK BEING PERFORMED WHO SHALL RECEIVE INSTRUCTIONS FROM THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
21. THE CONTRACTOR SHALL NOTIFY THE ENGINEER/INSPECTOR OF ANY GEOLOGICAL ANOMALIES (MINING ACTIVITY, SINKHOLES, ETC.) DISCOVERED DURING CONSTRUCTION.
22. TEMPORARY CONSTRUCTION ENTRANCE TO HAVE SHOT ROCK FOR ITS SURFACE.
23. THE INSTALLATION OF SILT FENCE FOR CONSTRUCTION IS TO BE INSTALLED BY THE CONTRACTOR AND IN PLACE BEFORE BEGINNING SITE CONSTRUCTION. SIMILAR DEVICES MAY BE USED BY THE CONTRACTOR TO MEET THE REQUIREMENTS OF THE ENGINEER. DEVICES TO BE IN PLACE AS SHOWN ON THE PLANS. ADJUSTMENT OF THE LOCATION BY THE CONTRACTOR MAY BE DONE TO MEET EXISTING FIELD CONDITIONS. ALL CONTROLS ARE TO BE LACED WITHIN OWNER'S PROPERTY. ACCUMULATED SEDIMENT IN BASINS WILL REQUIRE REMOVAL DURING CONSTRUCTION OR AFTER EACH RAIN EVENT AND AT THE END OF CONSTRUCTION. EACH BASIN SHALL BE CHECKED AFTER EACH RAIN EVENT. CONTRACTOR TO MINIMIZE THE AREA DISTURBED BY CONSTRUCTION ACTIVITIES AT ANY ONE TIME AND TO PROMPTLY RE-VEGETATE (OR MECHANICALLY STABILIZE) ARE DISTURBED BY CONSTRUCTION ACTIVITY.
24. SILT FENCE SHALL BE PLACED AROUND ALL SOIL SPOIL PILES TO PREVENT EROSION.

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEMOLITION AND REMOVAL OF ALL ITEMS THAT IMPEDE THE PROPER PLACEMENT OF ANY ITEMS PROPOSED BY THIS PLAN SET.
2. THE REMOVAL WORK SHALL INCLUDE BUT NOT BE LIMITED TO: OBTAINING ALL DEMOLITION PERMITS REQUIRED, REMOVAL OF THE EXISTING TREES, SEALING OF EXISTING WATER WELLS, REMOVAL OF ANY SEPTIC SYSTEM OR DRY WELLS AND OTHER ITEMS TO COMPLETE THE REMOVALS.
3. THE CONTRACTOR SHALL REMOVE ALL MATERIALS DEEMED UNSUITABLE BY THE ENGINEER WITHIN EIGHT INCHES OF THE PROPOSED BUILDING FOOTPRINT TO THE DEPTH THAT SUCH UNSUITABLE MATERIALS EXIST. VOIDS SHALL BE FILLED IN ACCORDANCE WITH RECOMMENDATIONS FROM A CERTIFIED GEOTECHNICAL ENGINEER.
4. TREE REMOVAL SHALL INCLUDE THE COMPLETE REMOVAL OF TREES AS NOTED ON THE PLAN, INCLUDING ALL STUMPS AND ROOTS. IF ADDITIONAL TREES ARE DEEMED NECESSARY TO BE REMOVED BY THE CONTRACTOR, CONTRACTOR MUST OBTAIN WRITTEN PERMISSION FROM THE OWNER PRIOR TO REMOVAL OF SAID TREES. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE OWNER A MINIMUM OF 10 DAYS PRIOR TO REMOVAL.
5. THE CONTRACTOR SHALL COORDINATE DISCONNECTION, REMOVAL, AND RELOCATION OF ANY EXISTING UTILITIES WITH THE APPROPRIATE UTILITY COMPANIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES THAT ARE LEVIED BY UTILITY COMPANIES IN CONJUNCTION WITH DEMOLITION AND REMOVAL OF EXISTING UTILITIES.
6. DISPOSAL OF ALL MATERIALS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. ALL WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL MATERIALS FROM THE SITE ALONG WITH ALL ASSOCIATED PERMITS AND REGULATORY REQUIREMENTS.
7. IF NECESSARY, THE CONTRACTOR SHALL BE FAMILIAR WITH THE APPROPRIATE SPECIFICATIONS FOR WELL ABANDONMENT, MATERIALS, PROCEDURES AND ACCESS TO EQUIPMENT REQUIRED TO PROPERLY SEAL WELLS. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN, COMPLETE AND FILE THE APPROPRIATE FORMS THROUGH THE LOCAL JURISDICTION AND/OR THE MISSOURI DEPARTMENT OF NATURAL RESOURCES.
8. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITY SERVICES TO ADJACENT LOTS. INTERRUPTION OF SERVICES TO ADJACENT LOTS SHALL NOT OCCUR WITHOUT PROPER APPROVAL. 48 HOURS NOTICE SHALL BE GIVEN TO THE PROPERTY OWNERS PRIOR TO THE CONNECTION OF THE NEW SERVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COSTS ASSOCIATED WITH THE CONNECTION OF TEMPORARY UTILITY SERVICES, IF REQUIRED, TO FACILITATE CONSTRUCTION STAGING.
9. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING, SIDEWALKS, DRIVES, ETC. TO BE CLEAR AND FREE OF ANY CONSTRUCTION ACTIVITY AND/OR EXCAVATED AND HAULED MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO AND FROM ADJACENT SITES.
10. THE CONTRACTOR SHALL PERFORM A FULL-DEPTH SAW-CUT ALONG THE PERIMETER OF PAVEMENT AND SIDEWALK REMOVAL THAT ABUTS EXISTING PAVEMENT AND SIDEWALK THAT IS TO REMAIN.
11. ANY DAMAGE SUSTAINED BY ITEMS THAT ARE TO REMAIN IN PLACE SHALL BE REPAIRED OR REPLACED TO THE OWNER'S SATISFACTION AT NO COST TO THE OWNER.

STAGES OF CONSTRUCTION:

1. CONTRACTOR TO PERFORM DETAILED SITE INSPECTION TO LOCATE ALL EXISTING UTILITIES AND VERIFY ANY POSSIBLE CONFLICTS WITH PROPOSED IMPROVEMENTS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTACT OWNER WITH ANY CONFLICTS.
2. INSTALLATION OF CONSTRUCTION ENTRANCE.
3. INSTALLATION OF EROSION CONTROL FENCE.
4. DEMOLITION OF EXISTING SITE IMPROVEMENTS.
5. REMOVAL OF EXISTING PAVEMENT ON THE SITE.
6. INSTALLATION OF ALL STORM WATER DRAINAGE IMPROVEMENTS.
7. ROUGH GRADING.
8. CONSTRUCTION OF NEW SITE IMPROVEMENTS.
9. FINAL GRADING.
10. PLACEMENT OF FINAL LANDSCAPING ITEMS AND SOD.
11. REMOVAL OF EROSION CONTROL FENCE.

UTILITY NOTE:
PRIOR TO BEGINNING ANY SITE WORK & ORDERING OF MATERIALS, CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LINE DEPTHS TO EXISTING SYSTEMS BY POT HOLING AND SHALL COORDINATE WITH UTILITY COMPANY IF RELOCATION IS DEEMED NECESSARY

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DUQUESNE, MO

REVISIONS

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1	CITY COMMENTS	08/06/2024

DRAWING INFORMATION

PROJECT NO: 24JO10026
DRAWN BY: SW
CHECK BY: JO
ISSUED DATE: 08/06/2024

STATE OF MISSOURI
JOSHUA C. OATHOUT
NUMBER
PE-2021000279

ISSUED BY: JOSHUA OATHOUT
LICENSE NO: PE-2021000279

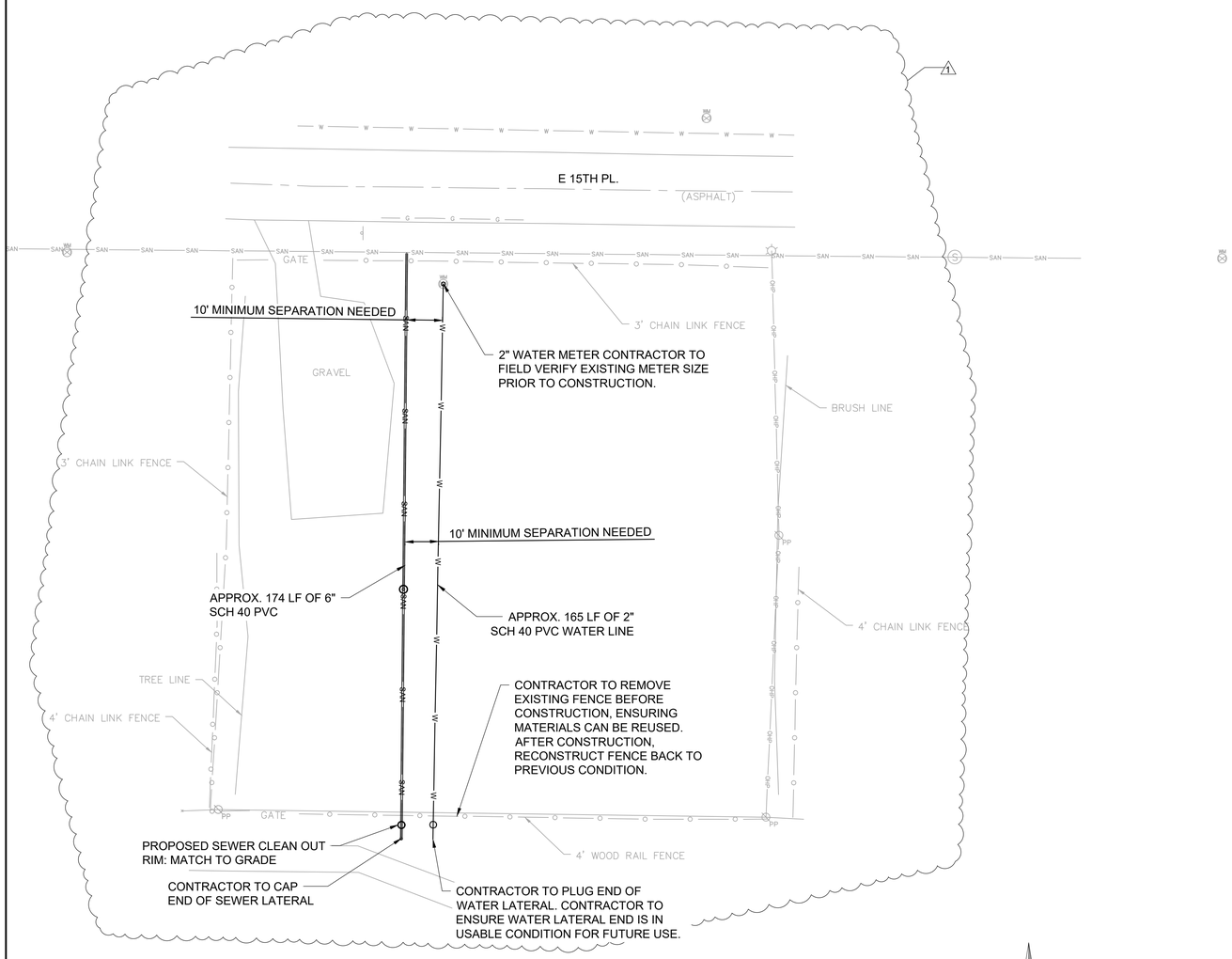
A licensed Missouri Engineering Corporation
COA# 00062

SHEET TITLE

SWPPP

SHEET NUMBER

C2



1 SITE LAYOUT AND DIMENSION PLAN
C3 SCALE: 1" = 20'

1"=20'
20' 0 10' 20' 40'

N

GENERAL NOTES:

1. ALL SITE DIMENSIONS TO THE EDGE OF PAVEMENT, CONCRETE OR PROPERTY LINE UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO SUBMITTING BID AND STARTING CONSTRUCTION.
3. COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.
4. SIGN CONSTRUCTION AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.

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.

SPECIAL NOTE:
CONTRACTOR TO PERFORM DETAILED SITE INSPECTION TO LOCATE ALL EXISTING UTILITIES AND VERIFY ANY POSSIBLE CONFLICTS WITH PROPOSED IMPROVEMENTS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTACT ENGINEER WITH ANY CONFLICTS.

LEGEND	
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SAN	PROPOSED SEWER EXTENSION
W	PROPOSED WATER EXTENSION

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STATE OF MISSOURI
JOSHUA C. OATHOUT
NUMBER
PE-2021000279

ISSUED BY: JOSHUA OATHOUT
LICENSE NO: PE-2021000279

A licensed Missouri Engineering Corporation
COA# 00062

SHEET TITLE

SITE LAYOUT AND DIMENSION PLAN

SHEET NUMBER

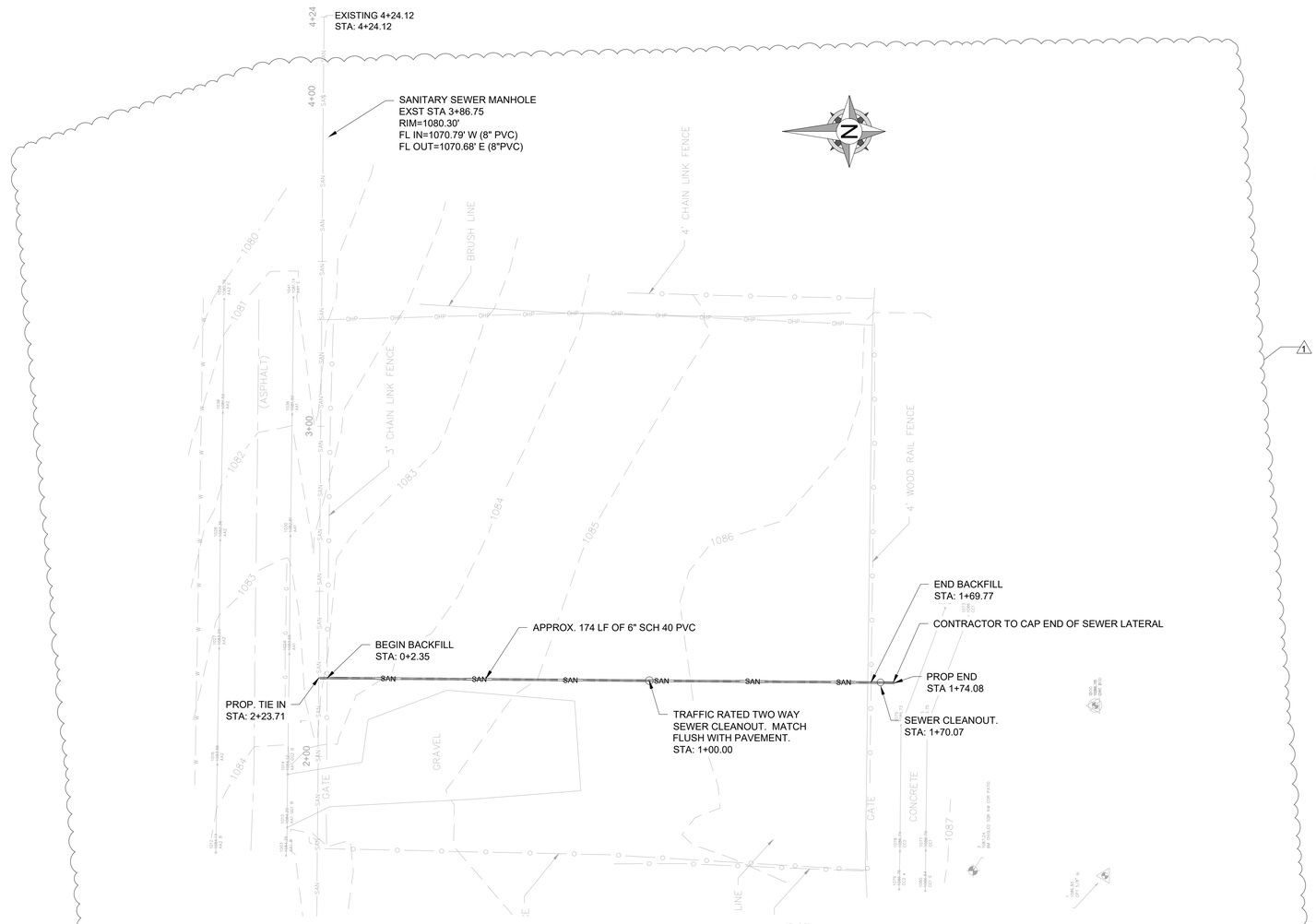
C3

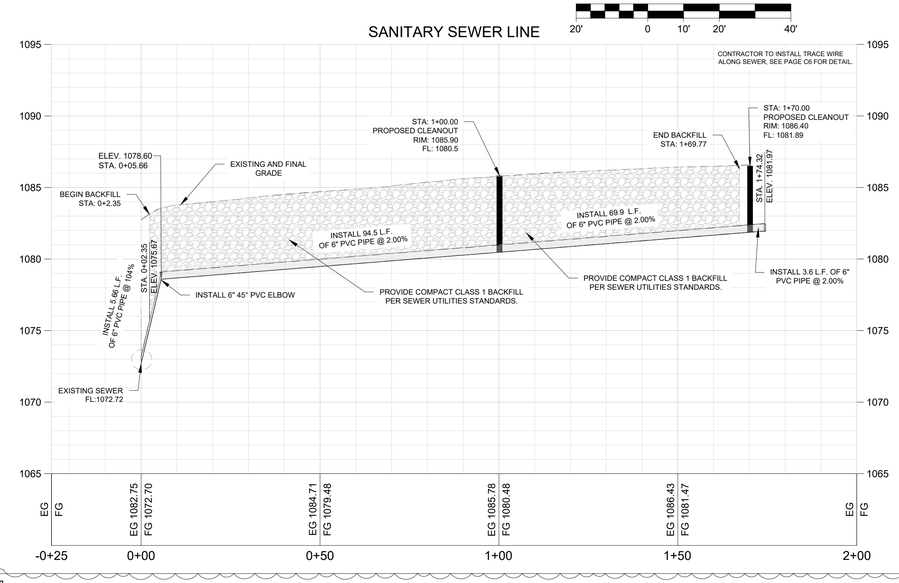
SPECIAL NOTE:
CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED AREAS OF PAVEMENT DUE TO CONSTRUCTION ACTIVITIES.

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.

SPECIAL NOTE:
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 THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

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





LEGEND

REFER TO SURVEY FOR EXISTING CONDITION SYMBOLS LEGEND AND SITE CONTROL

W	EXISTING WATER LINE
SAN	EXISTING SEWER LINE
OHE	EXISTING OVERHEAD ELECTRIC LINE
SAN	PROPOSED SEWER LINE

1"=20'
20' 0 10' 20' 40'

1 PUBLIC SANITARY SEWER NOTES
C4 SCALE: 1" = 20'

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Engineering beyond.
811 E. Third Street
Joplin, MO 64801
417.782.7399
weareown.com
FORMERLY ANDERSON ENGINEERING

MISSOURI ONE CALL SYSTEM, INC.
1-800-344-7483
STOP - CALL BEFORE YOU DIG!

DUQUESNE WATER AND SEWER EXTENSION

1501 S. DUQUESNE RD
DUQUESNE, MO

REVISIONS

NO.	DESCRIPTION	DATE
1	CITY COMMENTS	08/06/2024

DRAWING INFORMATION

PROJECT NO: 24JO10026
DRAWN BY: SW
CHECK BY: JO
ISSUED DATE: 08/06/2024

STATE OF MISSOURI
JOSHUA C. OATHOUT
NUMBER
PE-2021000279
PROFESSIONAL ENGINEER

ISSUED BY: JOSHUA OATHOUT
LICENSE NO: PE-2021000279

A licensed Missouri Engineering Corporation
COA# 00062

SHEET TITLE

PUBLIC SANITARY SEWER

SHEET NUMBER

C4

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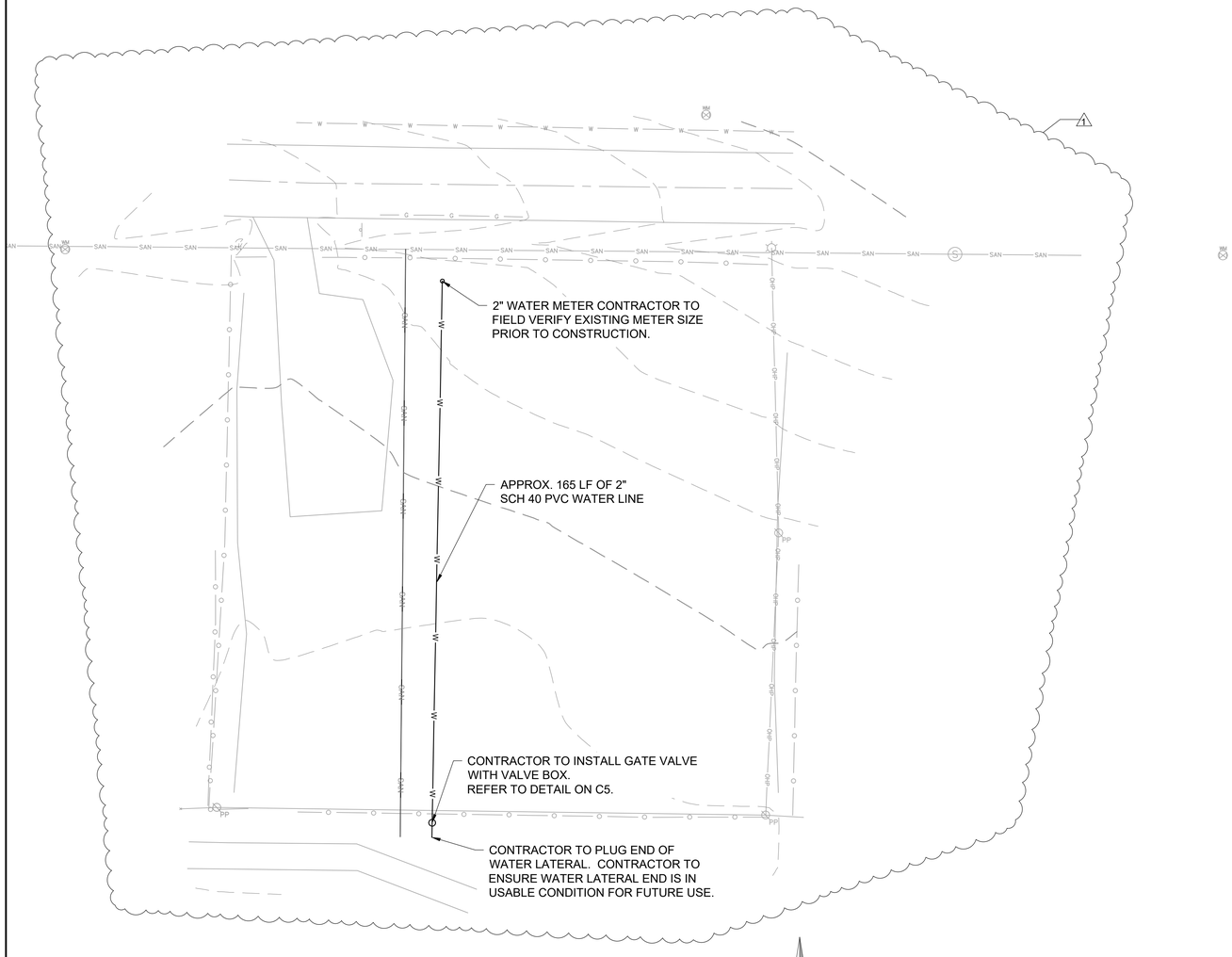

1 PUBLIC WATER PLAN
C5 SCALE: 1" = 20'

1"=20'
20' 0 10' 20' 40'

N

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:
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SPECIAL NOTE:
CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED AREAS OF PAVEMENT DUE TO CONSTRUCTION ACTIVITIES.

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LEGEND	
REFER TO SURVEY FOR EXISTING CONDITION SYMBOLS LEGEND AND SITE CONTROL	
W	EXISTING WATER LINE
SAN	EXISTING SEWER LINE
OHE	EXISTING OVERHEAD ELECTRIC LINE
GAS	EXISTING NATURAL GAS LINE
W	PROPOSED WATER LINE

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DUQUESNE WATER AND SEWER EXTENSION

1501 S. DUQUESNE RD
DUQUESNE, MO

REVISIONS

NO.	DESCRIPTION	DATE
1	CITY COMMENTS	08/06/2024

DRAWING INFORMATION

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DRAWN BY: SW
CHECK BY: JO
ISSUED DATE: 08/06/2024

JOSHUA C. OATHOUT
NUMBER
PE-2021000279

ISSUED BY: JOSHUA OATHOUT
LICENSE NO: PE-2021000279

A licensed Missouri Engineering Corporation
COA# 00062

SHEET TITLE

PUBLIC WATER PLAN

SHEET NUMBER

C5

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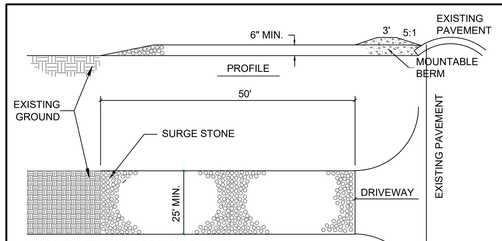
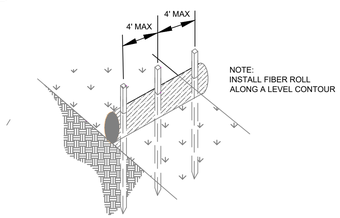
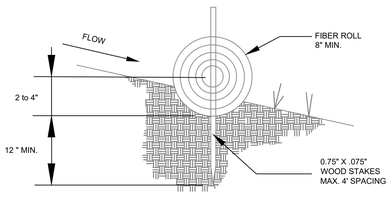


1. STONE SIZE - USE 2" STONE, OR EQUAL
2. MIN. LENGTH - 50 FEET.
3. MIN. THICKNESS - SIX(6) INCHES.
4. WIDTH - TWENTY FIVE (25) FOOT MINIMUM
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQURE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

1 CONSTRUCTION ENTRANCE
C6 SCALE: N.T.S



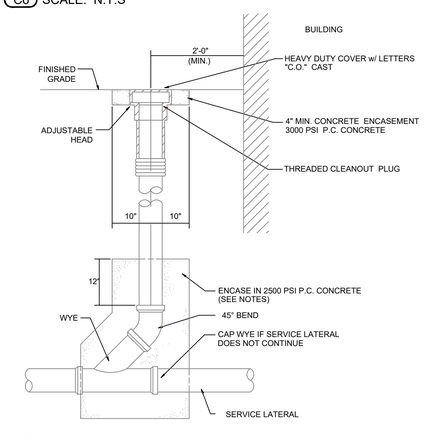
TYPICAL FIBER ROLL INSTALLATION



ENTRENCHING DETAILS

NOTE: EROSION CONTROL DEVICE SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND STANDARDS AND IN ACCORDANCE WITH STATE AND LOCAL LAWS.

2 8" COMPOST FILTER SOCKS
C6 SCALE: N.T.S

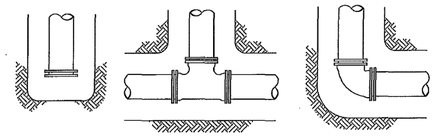


NOTE:
1. ALL LATERALS SHALL HAVE A ONE-WAY CLEAN-OUT EVERY EVERY 50' OR A TWO-WAY CLEAN-OUT EVERY 100'
2. IF THE SERVICE LATERAL IS LESS THAN 12' DEEP, THE CONCRETE ENCASEMENT IS NOT REQUIRED.

3 SANITARY SEWER CLEANOUT
C6 SCALE: N.T.S

NOTES:

MECHANICAL JOINT RESTRAINTS, SUCH AS A RETAINER GLAND, RESTRAINT HARNESS, ECT., MUST BE USED. CONCRETE THRUST BLOCKS SHALL NOT BE USED UNLESS APPROVED BY CITY IN WRITTING.



THE LENGTH OF RESTRAINED PIPE JOINTS BEYOND THE FITTING SHALL BE AS REQUIRED BY THE JOINT RESTRAINT MANUFACTURER INSTALLATION INSTRUCTIONS AND IN ACCORDANCE WITH RECOGNIZED UNDERGROUND RESTRAINED JOINT PIPING SYSTEM EQUATIONS UTILIZING CONSERVATIVE SOIL PARAMETERS.

MECHANICAL JOINT RESTRAINTS
N.T.S.

CITY OF DUQUESNE, MISSOURI

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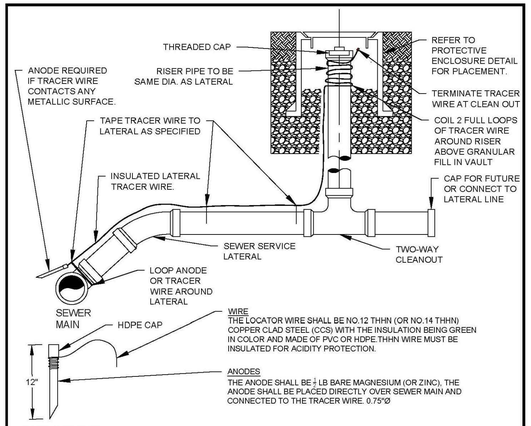
JOPLIN, MISSOURI

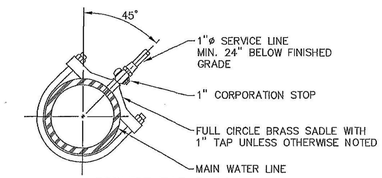


TRACER WIRE NOTES
1. CONDUCTIVE TYPE PIPE LOCATOR/TRACER WIRE SHALL BE INSTALLED ON SEWER LATERALS TO FACILITATE FUTURE ABOVE-GROUND LOCATING ACTIVITIES, PER MISSOURI STATE STATUTE. 2. THE TRACER WIRE SET OF REQUIREMENTS APPLY UNDER ANY OF THE FOLLOWING CONDITIONS: A) ONLY ON LATERAL PIPES INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY OR A DEDICATED UTILITY EASEMENT; B) ON LATERALS CONNECTING TO SEWER MAINS INSTALLED PRIOR TO 2016, ONLY IF THAT SEWER MAIN IS EXPOSED AS PART OF REPAIR WORK DONE ON THE LATERAL; OR, C) ON LATERAL PIPES INSTALLED AS PART OF A SEWER MAIN EXTENSION. 3. THE WIRE SHALL BE INSTALLED DIRECTLY ON TOP OF THE PIPE AND SECURED TO THE LATERAL BY TAPE AT BASE OF RISER, SEWER MAIN AND EVERY 10'. A STRIP OF DUCT TAPE IS ACCEPTABLE FOR ATTACHMENT. **4.** CAP THE END OF THE WIRE INSIDE THE PROTECTIVE ENCLOSURE WITH A THERMOPLASTIC SHELL CONNECTOR RATED FOR DAMP, UNDERGROUND APPLICATIONS (THE MUDBUG BY IDEAL, OR EQUIVALENT). 5. CONDUCTIVITY TO BE TESTED BEFORE ACCEPTANCE.

ADJUSTMENTS TO EXISTING
CORROSION PROOF WIRE CONNECTORS SHALL BE USED AT SPLICE LOCATIONS. ELECTRICAL TAPE SHALL BE USED AND NO BARE WIRE SHALL BE EXPOSED. CONDUCTIVITY TO BE TESTED BEFORE ACCEPTANCE.

TRACER WIRE DETAIL
NTS

SAN-16



SERVICE TAP DETAIL
N.T.S.

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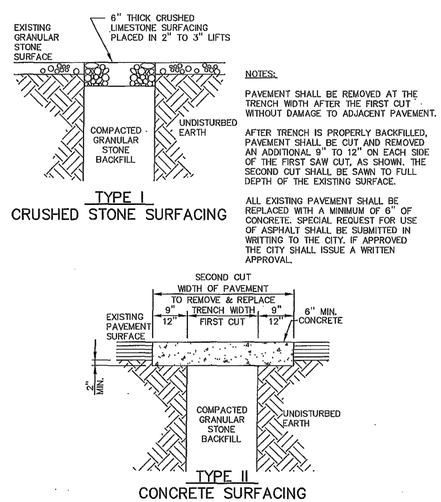

NOTES:

PAVEMENT SHALL BE REMOVED AT THE TRENCH WIDTH AFTER THE FIRST CUT WITHOUT DAMAGE TO ADJACENT PAVEMENT.

AFTER TRENCH IS PROPERLY BACKFILLED, PAVEMENT SHALL BE CUT AND REMOVED AN ADDITIONAL 9" TO 12" ON EACH SIDE OF THE FIRST SAW CUT, AS SHOWN. THE SECOND CUT SHALL BE SAWN TO FULL DEPTH OF THE EXISTING SURFACE.

ALL EXISTING PAVEMENT SHALL BE REPLACED WITH A MINIMUM OF 6" OF CONCRETE. SPECIAL REQUEST FOR USE OF ASPHALT SHALL BE SUBMITTED IN WRITTING TO THE CITY. IF APPROVED THE CITY SHALL ISSUE A WRITTEN APPROVAL.

TYPE I
CRUSHED STONE SURFACING

TYPE II
CONCRETE SURFACING

SEWER & WATER STREET CROSSING DETAIL
N.T.S.

CITY OF DUQUESNE, MISSOURI

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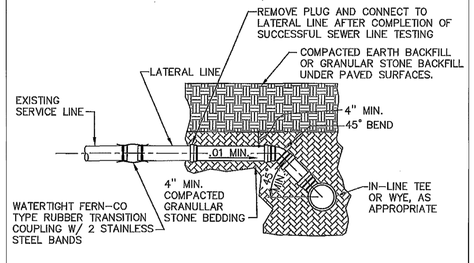
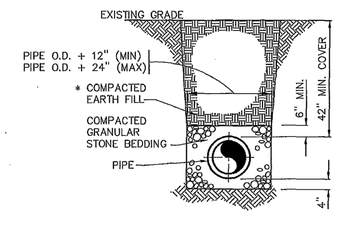


NOTES:
1. LATERAL LINE SHALL HAVE 30" MIN. COVER.
2. ALL NEW LATERAL LINES SHALL BE PVC CONFORMING TO ASTM D 2665, SCHEDULE 40 (PRESSURE)
3. CLEANOUTS SHALL BE PROVIDED AS INDICATED WITHIN SECTION 100 OF THE STANDARD SPECIFICATIONS.

SERVICE LATERAL INSTALLATION DETAIL
DUQUESNE, MISSOURI

CITY OF DUQUESNE
OCTOBER, 2009

ALLGEIER, MARTIN and ASSOCIATES, INC.
CONSULTING ENGINEERS · HYDROLOGISTS · SURVEYORS
2820 SOUTH RANGE LINE RD. JOPLIN, MISSOURI 64804 (417) 624 - 5703



WATER LINE TRENCH & BEDDING DETAIL
N.T.S.

* NOTE: TRENCH SHALL BE BACKFILLED FULL DEPTH WITH COMPACTED GRANULAR STONE BEDDING AT ALL ROADWAY CROSSINGS.

CITY OF DUQUESNE, MISSOURI

ALLGEIER, MARTIN & ASSOCIATES, INC.
CONSULTING ENGINEERS & SURVEYORS
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DUQUESNE WATER AND SEWER EXTENSION

1501 S. DUQUESNE RD
DUQUESNE, MO

REVISIONS

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1	CITY COMMENTS	08/06/2024

DRAWING INFORMATION

PROJECT NO: 24JO10026
DRAWN BY: SW
CHECK BY: JO
ISSUED DATE: 08/06/2024

JOSHUA C. OATHOUT
NUMBER
PE-2021000279

ISSUED BY: JOSHUA OATHOUT
LICENSE NO: PE-2021000279

A licensed Missouri Engineering Corporation
COA# 00062

SHEET TITLE

CONSTRUCTION DETAILS

SHEET NUMBER

C6