100% CONSTRUCTION DOCUMENTS FOR

CENTER FOR ADVANCED SKILLS TRAINING IN LAW ENFORCEMENT

PHASE 2

O'FALLON, MO

JUNE 6, 2025

CONTACTS

GOVERNMENT AGENCIES

CITY OF O'FALLON
100 N. MAIN ST.
O'FALLON, MO. 63366
CONTACT: WADE MONTGOMERY (DIRECTOR OF ENGINEERING)
PHONE: (636) 379-5567
WMONTGOMERY@OFALLON.MO.GOV

O'FALLON FIRE PROTECTION DISTRICT
111 LAURA K DR.
O'FALLON, MO. 63366
CONTACT: THOMAS VINEYARD (FIRE CHIEF)
PHONE: (636) 272-3493
EMAIL: CONTACTUS@OFALLONFIRE.ORG

MISSOURI DEPARTMENT OF TRANSPORTATION (MoDOT)
1590 WOODLAKE DR.
CHESTERFIELD, MO 63017
CONTACT: ANDY TUERCK (ST. CHARLES AREA ENGINEER)
PHONE: (314) 453-5046
EMAIL: ANDREW.TUERCK@MODOT.MO.GOV

MISSOURI DEPARTMENT OF NATURAL RESOURCES (MoDNR)
ST. LOUIS REGIONAL OFFICE
7545 LINDBERGH BLVD., SUITE 210
ST. LOUIS, MO 63125
PHONE: (314) 416-2960

UNITED STATES ARMY CORPS OF ENGINEERS (USACE)
ST. LOUIS DISTRICT OFFICE
1222 SPRUCE STREET
ST. LOUIS, MO 83103
CONTACT: KAMREN METZGER
PHONE: (314) 331-8574
EMAIL: KAMREN.METZGER@USACE.ARMY.MIL

COMMUNICATIONS SERVICES

AT&T-D
13075 MANCHESTER ROAD, 3RD FLOOR
DES PERES, MO 63131
CONTACT: JUSTIN COURTOUISE
PHONE: (314) 415-0832
EMAIL: JC670S@ATT.COM

CHARTER COMMUNICATIONS
815 CHARTER COMMONS
TOWN & COUNTRY, MO 63017
EMAIL:
DLCENTRALSTATESCONSTRUCTION@CHARTER.COM

EVERSTREAM SOLUTIONS
900 WALNUT ST., SUITE 150
ST. LOUIS, MO 63102
PHONE: (866) 624-8624

COMMUNICATIONS SERVICES CONT.

BRIGHTSPEED
CONTACT: TIM HOWE
PHONE: (833) 363-2360
EMAIL: TIMOTHY.HOWE@BRIGHTSPEED.COM

MNA-BLUEBIRD
CONTACT: JUSTIN RECTOR
EMAIL: JUSTIN.RECTOR@BLUEBIRDNETWORK.COM
PHONE: (800) 778-9140

ELECTRIC SERVICES

AMEREN MISSOURI
200 NORTH CALLAHAN RD
WENTZVILLE, MO 63385
CONTACT: DAN MASTERSON
PHONE: (636) 639-8312
PREMISE NO: #321603320
WORK NO: #KB06871

CUIVRE RIVER ELECTRIC COOPERATIVE, INC.
8757 HWY N
LAKE SAINT LOUIS, MO 63367
CONTACT: STAN WINKLE
PHONE: (636) 695-4841

GAS SERVICES

SPIRE GAS
6400 GRAHAM ROAD
ST. LOUIS, MO 63134
CONTACT: NICK EGGERT
PHONE: (314) 522-2297
EMAIL: NICHOLAS.EGGERT@SPIREENERGY.COM

NUSTAR PIPELINE COMPANY
PHONE: (316) 721-7078

STORM SEWER SERVICES

CITY OF O'FALLON
100 N MAIN STREET
O'FALLON, MO 63366
CONTACT: JAY HERIGODT
PHONE: (636) 240-2000

SANITARY SEWER SERVICES

CITY OF O'FALLON
100 N MAIN STREET
O'FALLON, MO 63366
CONTACT: JAY HERIGODT
(636) 240-2000

WATER SERVICES

CITY OF O'FALLON
100 N MAIN STREET
O'FALLON, MO 63366
CONTACT: JAY HERIGODT
(636) 240-2000

LEGEND:

- EXIST PROPERTY LINE
- EXIST ITEM TO BE REMOVED
- EXIST VEGETATION
- FLOW DIRECTION
- LIMITS OF DISTURBANCE
- EXIST SETBACK
- EXIST GAS LINE
- EXIST OVERHEAD UTILITY
- EXIST OVERHEAD ELEC LINE
- EXIST UNDERGROUND COMMUNICATIONS
- EXIST UNDERGROUND ELEC LINE
- EXIST FIBER OPTIC LINE
- EXIST WATER LINE
- EXIST SANITARY LINE
- EXIST FENCE
- 850 EXIST CONTOUR
- 850 PROPOSED CONTOUR
- PROPOSED EDGE OF PAVEMENT
- PROPOSED FENCE
- PROPOSED STORM SEWER
- EX WATER VALVE
- EX FIRE HYDRANT
- EX GAS VALVE
- EX UTILITY POLE
- EX TRANSFORMER
- FOPB EX FIBER OPTIC PULL BOX
- EX SIGN
- PROPOSED STORM INLET / OUTLET STRUCTURE
- PROPOSED PIPE END SECTION / GRATED BOX END SECTION
- CP# HORIZONTAL CONTROL POINT
- BM# BENCHMARK (VERTICAL CONTROL POINT)
- 01 CONSTRUCTION STAKING POINT

VICINITY MAP
(NOT TO SCALE)

ISSUED FOR CONSTRUCTION

CITY OF O'FALLON
ENGINEERING DEPARTMENT
ACCEPTED FOR CONSTRUCTION

BY: Jeannie Greenlee DATE: 03/11/2026

PROFESSIONAL ENGINEER'S SEAL
INDICATES RESPONSIBILITY FOR DESIGN

SHEET INDEX

DESIGNATION	SHEET TITLE	DESIGNATION	SHEET TITLE
G-001	TITLE SHEET	C-510 - C-513	SANITARY SEWER PLAN & PROFILE
G-002 - G-004	GENERAL NOTES	C-515 - C-518	FORCE MAIN PLAN & PROFILE
C-100 - C-101	BOUNDARY PLAN	C-519	DETENTION PIPE PLAN & PROFILE
C-110	EXISTING CONDITIONS	C-520	LIFT STATION SITE PLAN
C-111	PROPOSED FLOODPLAIN PLAN	C-521	LIFT STATION PLAN AND SECTION
C-200	OVERALL SITE PLAN	C-522	LIFT STATION ELECTRIC
C-201 - C-204	SITE PLAN	C-523 - C-524	LIFT STATION DETAILS
C-210	OVERALL GRADING PLAN	C-600 - C-607	WATER PLAN & PROFILE
C-211 - C-214	GRADING PLAN	C-700	SIGNAL NOTES
C-220	OVERALL UTILITY PLAN	C-701	OVERALL TRAFFIC SIGNAL PLAN
C-221 - C-222	UTILITY PLAN	C-702	INTERSECTION TRAFFIC SIGNAL PLAN
C-300	ROADWAY PLAN	C-703 - C-707	TRAFFIC SIGNAL PLAN & QUANTITIES
C-301 - C-302	ROADWAY PROFILE	C-708 - C-711	TRAFFIC SIGNAL DETAILS
C-310 - C-311	ALIGNMENT PLAN	C-800 - C-804	CONSTRUCTION DETAILS
C-320	ROADWAY SIGNAGE PLAN	C-810	HYDRAULIC CALCULATIONS
C-400 - C-401	STORM SEWER PROFILES	C-811	EXISTING DRAINAGE MAP
C-500	EROSION CONTROL PLAN	C-812	PROPOSED DRAINAGE MAP
C-501 - C-503	EROSION CONTROL DETAILS	L-001	LANDSCAPING PLAN

SITE INFORMATION

SITE ACREAGE	=	72.47 AC ±
TOTAL BUILDING AREA	=	1.50 AC (2.07% OF TOTAL SITE AREA)
IMPERVIOUS AREA	=	18.87 AC (26.04% OF TOTAL SITE AREA)
PERVIOUS AREA	=	53.03 AC (73.18% OF TOTAL SITE AREA)
DISTURBED ACREAGE	=	53.36 AC ±
SITE ADDRESS	=	2400 HIGHWAY 79
OWNER	=	CO-OWNERSHIP BETWEEN CITY OF O'FALLON AND CITY OF ST. CHARLES
PARCEL ID	=	2-0034-S009-00-0008.00 & 2-0034-S009-00-0009.20
EXISTING ZONING	=	AGRICULTURE (AG)
CITY	=	O'FALLON, MO
ZIP CODE	=	63366
FEMA FLOOD MAP	=	29183C0230G (EFFECTIVE 1/20/2016) (ZONE AE)
WUNNENBERG MAP	=	PG 31, GRID RR-12
SCHOOL DISTRICT	=	FORT ZUMWALT
FIRE DISTRICT	=	O'FALLON FIRE DISTRICT
WATER SHED	=	MISSISSIPPI RIVER WATERSHED, PERUQUE CREEK SUB-SHED
SEWER DISTRICT	=	CITY OF O'FALLON
CABLE SERVICE	=	CHARTER COMMUNICATIONS
ELECTRIC SERVICE	=	AMEREN MISSOURI & CUIVRE RIVER ELECTRIC COOPERATIVE
GAS SERVICE	=	SPIRE ENERGY
PHONE SERVICE	=	AT&T
WATER SERVICE	=	CITY OF O'FALLON

CONTRACTOR NOTE

THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR CONTROLLING ALL SILTATION AND EROSION OF THE PROJECT AREA. THE CONTRACTOR 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 GRADING AND BE MAINTAINED THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY THE OWNER, CITY AND/OR MoDNR. THE CONTRACTOR'S RESPONSIBILITIES INCLUDE ALL DESIGN AND IMPLEMENTATION AS REQUIRED TO PREVENT EROSION AND THE DEPOSITING OF SILT. THE OWNER, CITY AND/OR MoDNR MAY AT THEIR OPTION DIRECT THE CONTRACTOR 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 SILT 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 OWNER, CITY AND/OR MoDNR.

FLOOD ZONE NOTE

PORTIONS OF THE SUBJECT PROPERTY LIES WITHIN FLOOD ZONE AE (AREAS DETERMINED TO BE INSIDE THE 1.0% ANNUAL CHANCE FLOODPLAIN) ACCORDING TO THE NATIONAL FLOOD HAZARD LAYER MAP NUMBER 29183C0230G WITH AN EFFECTIVE DATE OF 1/20/2016. SEE ADDITIONAL PERUQUE CREEK WATERSHED INFO ON THE FLOOD INSURANCE STUDY REPORT NUMBER 29183CV002C WITH AN EFFECTIVE DATE OF 3/9/2021.

AS OF THE RECORDED DATE ON THIS PLAN SET, NATIONAL FLOOD HAZARD LAYER MAP NUMBER 29183C0230G HAS NOT BEEN UPDATED TO REFLECT RESULTS OF MASS GRADING CONDUCTED IN PHASE 1A OR CONSTRUCTION IN PHASE 1B.

FLOODPLAIN ELEVATION CERTIFICATES WILL BE REQUIRED ON ALL STRUCTURES AS REQUIRED BY THE CITY OF O'FALLON, MO.

GENERAL DISCLAIMER

CRAWFORD, MURPHY & TILLY, INC. (CMT) AND THE UNDERSIGNED ENGINEER HAVE NO RESPONSIBILITY FOR SERVICES PROVIDED BY OTHERS TO IMPLEMENT THE IMPROVEMENTS SHOWN ON THIS PLAN SET AND ALL OTHER DRAWINGS WHERE THE UNDERSIGNED ENGINEER'S SEAL APPEARS. THE CONSTRUCTION MEANS AND METHODS ARE THE SOLE RESPONSIBILITY OF THE OWNER AND CONTRACTOR. CMT HAS NO RESPONSIBILITY TO VERIFY FINAL IMPROVEMENTS AS SHOWN ON THIS PLAN UNLESS SPECIFICALLY ENGAGED AND AUTHORIZED TO DO SO BY THE OWNER OR CONTRACTOR.

UTILITY DISCLAIMER

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORDS AND INFORMATION, AND, THEREFORE DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE FACILITIES, STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE UNDERGROUND FACILITIES, STRUCTURES, AND 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, CHAPTER 319 RSMO.

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

CALL 1-800-DIG-RITE (MISSOURI ONE CALL) TO HAVE LOCATIONS MARKED IN THE FIELD (SUBSCRIBING UTILITIES REQUIRE 48 HOURS NOTICE PRIOR TO CONSTRUCTION)

UTILITY INFOMATION :

UTILITIES SHOWN HAVE BEEN TAKEN FROM AVAILABLE SURVEYS, UTILITY COMPANY MAPS, AND PHYSICAL PROPERTY INSPECTION. THE LOCATIONS AND FACILITIES SHALL BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE ADDITIONAL UTILITIES THAT HAVE NOT BEEN SHOWN ON THESE PLANS. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE LOCATIONS OF ALL UTILITIES PRIOR TO EXCAVATION OR CONSTRUCTION.

PREPARED FOR:

CITY OF O'FALLON, MO
100 NORTH MAIN STREET
O'FALLON, MO 63366
ATTN: CHRIS CLERCX (636) 379-5590

CITY OF ST. CHARLES, MO
200 NORTH SECOND STREET
ST. CHARLES, MO 63301

BENCHMARK

SITE BENCHMARKS: ALUMINUM DNR GEOGRAPHIC REFERENCE SYSTEM SURVEY DISK SET IN CONCRETE, STAMPED SC-06, LOCATED APPROXIMATELY 0.5 MILES NORTH OF THE INTERSECTION OF INTERSTATE 70 AND HIGHWAY 79 LOCATED ALONG THE EAST SHOULDER OF HIGHWAY 79, 280' NORTH OF THE NORTH END OF RAILROAD OVERPASS, 14.8' SOUTHEAST OF A COTTON PICKER SPINDLE IN PAVEMENT JOINT AND 14.8' NORTHEAST OF A COTTON PICKER SPINDLE IN PAVEMENT JOINT. ELEVATION- 528.97 NAVD88

BENCHMARK NO. 1: CROSS FOUND ON CONCRETE BASE FOR FENCE POST, LOCATED APPROXIMATELY 110 FEET EAST OF THE CENTERLINE OF STATE HIGHWAY 79, APPROXIMATELY 985 FEET NORTH OF FIRMA ROAD. ELEVATION 442.04 NAVD88

BENCHMARK NO. 2: MAG NAIL FOUND ON SHOULDER OF STATE HIGHWAY 79, 21.56 FEET LEFT OF CENTERLINE STATION 333+20. ELEVATION- 450.59 NAVD88

STATE OF MISSOURI
TODD EHLEN
NUMBER PE-2006019649
PROFESSIONAL ENGINEER
06/06/2025

CMT
CRAWFORD, MURPHY & TILLY, INC.
ENGINEERS & CONSULTANTS
ONE MEMORIAL DRIVE
SUITE 500
ST.LOUIS, MO 63102
PH (314) 436-5500
www.cmtengr.com

CMT JOB NO: 22001111.01
License No. 184-000631

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Date: Thursday, June 5, 2025 7:09:17 PM

GENERAL PROJECT NOTES

1. PROPERTY LINES, EASEMENTS AND TOPOGRAPHIC SURVEY BY COLE & ASSOCIATES.
2. IT IS NOT WARRANTED THAT THESE PLANS CONTAIN COMPLETE INFORMATION REGARDING EASEMENTS, RESERVATIONS, RESTRICTIONS, RIGHT-OF-WAY, BUILDING LINES AND OTHER ENCUMBRANCES. FOR COMPLETE INFORMATION, A TITLE OPINION OR COMMITMENT FOR TITLE INSURANCE SHOULD BE OBTAINED.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THEY HAVE THE LATEST SET OF IMPROVEMENT PLANS. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COORDINATING ALL PERMIT PLAN SETS AND ANY SUBSEQUENT PLAN ISSUANCES.
4. THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF RECORD DRAWINGS AT THE JOB SITE AND MARK THEREON ANY CHANGES AS THE WORK PROCEEDS. THE CONTRACTOR SHALL SUBMIT COMPUTER GENERATED, LEGIBLE RECORD DRAWINGS TO THE ENGINEER PRIOR TO FINAL INSPECTION AND ACCEPTANCE.
5. IMPROVEMENTS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND REVIEWED BY THE ARCHITECT AND OWNER PRIOR TO INSTALLATION. CONTRACTOR SHALL REVIEW OTHER SITE-RELATED SHEETS BY OTHER DESIGNERS (LANDSCAPING, ARCHITECT, ETC.) IN ADDITION TO CIVIL SHEETS FOR COORDINATION PURPOSES.
6. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS WITH PROPOSED IMPROVEMENTS.
7. THESE PLANS ARE SUBJECT TO ALL LOCAL, STATE AND FEDERAL REGULATIONS.
8. THE CONTRACTOR SHALL COORDINATE AND/OR OBTAIN ALL NECESSARY LOCAL, STATE AND FEDERAL PERMITS RELATED TO CONSTRUCTION OF THESE IMPROVEMENTS.
9. WORK WITHIN MISSOURI DEPARTMENT OF TRANSPORTATION (MoDOT) RIGHT OF WAY IS **NOT** PROPOSED WITH THIS PLAN SET.
10. IF REQUIRED, ALL WORK WITHIN PUBLIC RIGHT-OF-WAY ALONG HIGHWAY 79 SHALL BE TO MoDOT STANDARDS. ALL WORK ON FIRMA ROAD SHALL BE TO THE CITY OF O'FALLON STANDARDS.
11. ALL CONCRETE SPECIFICATIONS SHALL MEET THE CITY OF O'FALLON CONSTRUCTION SPECIFICATIONS.

    UNLESS OTHERWISE SPECIFIED IN THESE DOCUMENTS, ALL CONSTRUCTION MATERIALS AND METHODS OF CONSTRUCTION SHALL MEET THE CURRENT STANDARDS AND SPECIFICATIONS OF:
    1. CITY OF O'FALLON
    2. ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC
    3. MISSOURI DEPARTMENT OF TRANSPORTATION
12. ALL WORK MUST BE PERFORMED WITHIN EXISTING OR ACQUIRED EASEMENTS. AGENCY APPROVAL OF THESE PLANS DOES NOT AUTHORIZE OR CONDONE WORK OUTSIDE OF THE EASEMENTS.
13. THE OWNER AND/OR ENGINEER DO NOT CONDONE OR AUTHORIZE WORK OUTSIDE OF ANY EXISTING OR ACQUIRED EASEMENTS.
14. PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR SHALL CONTACT THE OFFICE OF THE OWNER FOR SPECIFIC INSTRUCTIONS RELEVANT TO THE SEQUENCING OF WORK.
15. CERTAIN PORTIONS OF THE SITE ARE TO REMAIN UNDISTURBED, REFER TO STORM WATER PROTECTION / EROSION CONTROL (SWPPP) PLANS FOR LOCATIONS. ADDITIONAL EROSION CONTROL MEASURES MAYBE REQUIRED TO ENSURE COMPLIANCE.
16. THE GEOTECHNICAL REPORT WAS COMPLETED BY SCI ENGINEERING, INC. NO. 2022-0217.12, DATED OCTOBER 17, 2023 AND SIGNED BY JAMES R. MEYER, P.E. AND TIMOTHY J. BARRETT, P.E.. AN ADDITIONAL REPORT WAS COMPLETED NO. 2022-0217.13, DATED JUNE 5, 2025 AND SIGNED BY TIMOTHY J. BARRETT, P.E. 1
17. ANY RIGHT-OF-WAY DEDICATION SHALL BE COMPLETED PRIOR TO THE ISSUANCE OF CONSTRUCTION / ROADWAY / SITE IMPROVEMENT PERMIT(S). ALL PUBLIC ROADWAY IMPROVEMENTS SHOWN ON THE APPROVED SITE DEVELOPMENT PLAN SHALL BE COMPLETED PRIOR TO THE ISSUANCE OF AN OCCUPANCY PERMIT. IF DEVELOPMENT PHASING IS ANTICIPATED, THE DEVELOPER SHALL COMPLETE ROAD IMPROVEMENTS, RIGHT-OF-WAY DEDICATION, AND ACCESS REQUIREMENTS OF EACH PHASE OF DEVELOPMENT AS DIRECTED BY THE CITY OF O'FALLON. UNLESS NOTED ELSEWHERE, THE DELAYS TO DUE UTILITY RELOCATION AND ADJUSTMENTS WILL NOT CONSTITUTE A CAUSE TO ALLOW OCCUPANCY PRIOR TO COMPLETION OF THE ROAD IMPROVEMENTS.

    CONTRACTOR TO OBTAIN GRADING PERMIT PRIOR TO CONSTRUCTION.
18. THE CONTRACTOR SHALL PROVIDE NOTICE TO OFF-SITE PROPERTY OWNERS 48 HOURS IN ADVANCE SAID CONSTRUCTION ACTIVITIES IMPACTING THEIR PROPERTY AND/OR PROPERTY ACCESS.
19. ACCESS TO PRIVATE PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. EXISTING COMMERCIAL ENTRANCES MAY HAVE ACCESS RESTRICTED TO 1/2 OF THE ENTRANCE AT A TIME, UNLESS OTHERWISE APPROVED IN THIS PLAN SET.
20. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE CURRENT EDITION OF THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND MoDOT, WHERE APPLICABLE.
21. ALL SIDEWALKS, CURB RAMPS, RAMPS, ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT APPROVED "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADA) ALONG WITH THE GRADES, CONSTRUCTION MATERIALS, SPECIFICATIONS, AND SIGNAGE. IF ANY CONFLICT OCCURS BETWEEN THE ABOVE INFORMATION AND THE PLANS, THE ADAAG GUIDELINES SHALL TAKE PRECEDENCE, AND THE CONTRACTOR, PRIOR TO ANY CONSTRUCTION, SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL VERIFY THESE IMPROVEMENTS WITH THE ENGINEER PRIOR TO INSTALLATION.
22. THE CONTRACTOR SHALL BE MADE AWARE THAT CERTAIN EXCEPTIONS TO ADA REQUIREMENTS MAY BE APPLICABLE. THE FOLLOWING EXCEPTIONS WILL APPLY TO THIS PLAN SET:
    - NONE
23. ALL SIDEWALKS (THICKNESS AND WIDTH) AND CURB RAMPS TO BE CONSTRUCTED IN ACCORDANCE WITH ADA AND ST. LOUIS COUNTY STANDARDS.
24. CONTRACTOR SHALL CONSTRUCT A MINIMUM 4'x4' LANDING AT THE TOP AND BOTTOM OF EACH CURB RAMP. ADDITIONAL SIDEWALK WIDTHS MAY BE REQUIRED BY THE CITY OF O'FALLON.
25. CONSTRUCTION WORK DURING THE DAY OR NIGHT SHALL ONLY BE ALLOWED AS DETAILED IN THE JOB SPECIAL PROVISIONS.
26. ALL ELECTRICAL WORK TO BE INSTALLED PER AMEREN SPECS:
    HTTPS://WWW.AMEREN.COM/~/MEDIA/ILLINOIS-SITE/FILES/CONSTRUCTION-SERVICES /CUST-INSTALLED-NR-UG-10-01-2020.ASHX
27. ALL MECHANICAL UNITS ARE TO BE ELEVATED AT LEAST 2 FEET ABOVE THE BASE FLOOD ELEVATION.
28. PROPERTY IS LOCATED IN AN AGRICULTURAL "AG" ZONE. THE FOLLOWING REGULATIONS SHALL APPLY:
    i) FRONT YARD SETBACK: NOT LESS THAN 50 FT FROM RIGHT OF WAY.
    ii) SIDE YARD SETBACK: LEAST WIDTH OF EITHER YARD SHALL NOT BE LESS THAN 30 FT, EXCEPT FOR CORNER LOTS WHERE THE SIDE YARD ON THE STREET SIDE SHALL NOT BE LESS THAN 50 FT.
    iii) REAR YARD SETBACK: NOT LESS THAN 50 FT.
    iv) HEIGHT: NON-FARM BUILDINGS OR STRUCTURES SHALL NOT EXCEED A HEIGHT OF 2.5 STORIES, UNLESS OTHERWISE PROVIDED IN SECTION 400.255 OF O'FALLON CITY CODE.
29. THIS PROJECT SHALL COMPLY WITH THE PERFORMANCE STANDARDS OF THE CITY OF O'FALLON (SEE ARTICLE XIII).
30. THIS PROJECT SHALL COMPLY WITH THE LATEST COMPREHENSIVE PLAN OF THE CITY OF O'FALLON.
31. ALL SIGNS TO BE INSTALLED AS PART OF THIS PROJECT SHALL BE PERMITTED SEPARATELY.

GENERAL DISCLAIMER

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UTILITY DISCLAIMER

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORDS AND INFORMATION, AND, THEREFORE DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE FACILITIES, STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE UNDERGROUND FACILITIES, STRUCTURES, AND 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, CHAPTER 319 RSMO.

GENERAL UTILITY NOTES

1. ALL UTILITIES, STRUCTURES AND UNDERGROUND FACILITIES HAVE BEEN PLOTTED FROM MOST RECENT AVAILABLE RECORDS. THEREFORE, THE RELATIONSHIP BETWEEN PROPOSED WORK AND EXISTING FACILITIES, STRUCTURES AND UTILITIES MUST BE CONSIDERED APPROXIMATE. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THEIR LOCATION AND THE EXISTENCE OF ANY NOT SHOWN. THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES, PRIOR TO CONSTRUCTION, TO HAVE EXISTING UTILITIES FIELD LOCATED, UNCOVERED AND DEPTHS VERIFIED TO AVOID CONFLICTS.
2. **THE CONTRACTOR SHALL BE ADVISED THAT BOTH PUBLIC AND PRIVATE UTILITIES EXIST ON-SITE.** THE LOCATIONS, SIZE, MATERIAL, DESCRIPTION OR TYPE OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE APPROXIMATE LOCATIONS BASED ON IN PART, INFORMATION SUPPLIED BY OTHERS AND IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL ARRANGE TO HAVE ALL UTILITIES INCLUDING (BUT NOT LIMITED TO) WATER, GAS, ELECTRIC, STORM SEWER, SANITARY SEWER, TELEPHONE, AND CABLE T.V. LOCATED AND SUITABLY MARKED. SHOULD A UTILITY BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION, THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED AT ONCE.
3. THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE THE LOCATIONS OF ALL EXISTING PUBLIC OR PRIVATE UTILITY FACILITIES AND DETERMINE THEIR ACTUAL LOCATIONS. THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES TO ALLOW THEM TO COMPLETE ANY NECESSARY RELOCATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COORDINATION, SHOWN OR NOT. THE SUPPORT, PROTECTION AND RESTORATION OF ALL UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL PUBLIC AND PRIVATE PROPERTY INCLUDING UTILITIES AND STRUCTURES TO REMAIN, PARTICULARLY ADJACENT TO A SERVICE BUILDING. NO DAMAGE OR INTERRUPTION IN THESE AREAS CAN OCCUR. IF AT ANY TIME, THE CONTRACTOR DAMAGES OR DESTROYS ANY OTHER PUBLIC OR PRIVATE PROPERTY, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, RESTORE SUCH PROPERTY TO A CONDITION EQUAL TO THAT OF EXISTING BEFORE SUCH DAMAGE. PUBLIC ROADWAYS, PRIVATE ENTRANCES, AND EMPLOYEE ENTRANCES SHALL REMAIN ACCESSIBLE AND FREE OF CONSTRUCTION DEBRIS. ANY MATERIAL TO BE STAGED OR STOCKPILED SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.
5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS WITH PROPOSED IMPROVEMENTS.
6. THE DEVELOPER OR OWNER IS ADVISED THAT UTILITY COMPANIES MAY REQUIRE COMPENSATION FOR RELOCATION OF THEIR FACILITIES WITHIN THE PUBLIC RIGHT-OF-WAY. THE DEVELOPER OR OWNER SHALL ALSO BE MADE AWARE OF EXTENSIVE DELAYS IN UTILITY COMPANY RELOCATIONS AND ADJUSTMENTS WHICH MAY OCCUR. OWNER SHALL BEAR NO RESPONSIBILITY FOR UTILITY RELOCATION OR ADJUSTMENT COSTS OR ASSOCIATED DELAYS.
7. THE CONTRACTOR SHALL VERIFY AND COORDINATE PROPOSED SERVICES AND LOCATIONS OR RELOCATIONS WITH ALL UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL UTILITY PERMITS, UNLESS SPECIFICALLY MENTIONED OTHERWISE.
8. ALL PROPOSED UTILITIES TO BE LOCATED UNDERGROUND, UNLESS STATED OTHERWISE.
9. GAS, WATER, AND OTHER UNDERGROUND UTILITIES SHALL NOT CONFLICT WITH THE DEPTH OF HORIZONTAL LOCATION OF EXISTING OR PROPOSED SANITARY AND STORM SEWERS. ANY CONFLICT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.
10. ALL HYDRANTS, POWER POLES OR OTHER OBSTRUCTIONS SHALL HAVE A MINIMUM TWO FOOT SETBACK FROM FACE OF CURB OR EDGE OF SHOULDER OF THE ULTIMATE PAVEMENT SECTION AS DIRECTED BY THE THE CITY OF O'FALLON OR ST. CHARLES COUNTY HIGHWAY DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING THIS REQUIREMENT, PRIOR TO CONSTRUCTION. ANY LOCATION WHICH DOES NOT MEET THIS REQUIREMENT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY. THE CONTRACTOR SHALL ASSUME ALL LIABILITY IF CONFLICTS ARE NOT BROUGHT TO THE ENGINEERS ATTENTION FOR A DETERMINATION HOW TO PROCEED PRIOR TO CONSTRUCTION.
11. CONTRACTOR SHALL USE THE LATEST EDITION OF THE CITY OF O'FALLON WATER DISTRIBUTION SYSTEM SPECIFICATIONS FOR CONSTRUCTION OF WATER LINES.
12. CONTRACTOR SHALL USE THE LATEST EDITION OF THE CITY OF O'FALLON SANITARY SEWER SPECIFICATIONS FOR CONSTRUCTION OF SANITARY SEWERS (SEC. 700.590).

DEMOLITION NOTES

1. SAFETY NOTICE TO CONTRACTOR: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL 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.

   THE CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE FOR THE SAFETY FOR THE GENERAL PUBLIC AND PASSERBY WITH RESPECT TO WORK ZONE AREAS, MEANS AND METHODS AND PEDESTRIAN SAFETY.

   ALL EXCAVATIONS, WHETHER THEY ARE FOR RETAINING WALLS, UTILITY TRENCHES OR FOOTING EXCAVATIONS, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) "CONSTRUCTION STANDARDS FOR EXCAVATIONS".
2. ALL GRADING AND DRAINAGE TO BE IN CONFORMANCE WITH CITY OF O'FALLON STANDARDS.
3. STORMWATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.
4. POSITIVE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES.
5. INTERIM STORM WATER DRAINAGE CONTROL IN THE FORM OF SILTATION CONTROL MEASURES ARE REQUIRED FOR THIS PROJECT.
6. NO SLOPES SHALL EXCEED 3 (HORIZONTAL) TO 1 (VERTICAL), UNLESS JUSTIFIED BY A GEOTECHNICAL REPORT, WHICH HAS BEEN APPROVED BY THE CITY OF O'FALLON, AND DESIGNED IN FULL COMPLIANCE WITH ROADSIDE SAFETY STANDARDS.
7. ANY DISTURBED OFF-SITE PROPERTY (I.E. BUSHES, TREES, FENCES, MAILBOXES, ETC.), WHICH MAY NOT BE LABELED, SHALL BE REPLACED IN-KIND AT THE DEVELOPER'S EXPENSE.
8. LIMITS OF DISTURBANCE:
   THE CONTRACTOR SHALL STAY WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS AND MINIMIZE DISTURBANCE WITHIN THE WORK AREA WHEREVER POSSIBLE.
9. ANY SEWER (STORM, SANITARY OR COMBINED) WHICH SHALL BE ABANDONED, SHALL BE REMOVED OR COMPLETELY FILLED WITH GROUT.
10. ALL DEMOLITION WILL BE IN ACCORDANCE WITH MDNR REGULATIONS.

PHASING NOTES

1. PHASE 2 (THIS PLAN SET) INCLUDES CONSTRUCTION OF EVOC TRACK, BUILDINGS, PARKING LOTS, ENTRANCE IMPROVEMENTS, GRADING, STORM, SANITARY, WATER AND ELECTRIC UTILITIES.

   ADDITIONAL PHASING OR MILESTONES MAY BE REQUIRED IN THE JOB SPECIAL PROVISIONS.

AMEREN NOTES

AMEREN MISSOURI ADVISOR: DAN MASTERSON, (636) 357-2615

1. EXTENSION OF UNDERGROUND ELECTRIC POWER FROM EXISTING TRANSFORMER LOCATED ON SITE TO PROPOSED TRANSFORMER LOCATED NEAR PROPOSED LIFT STATION.
   PREMISE NO. 369906820
   WORK REQUEST NO. N/A

CITY OF O'FALLON GENERAL NOTES

1. DRIVEWAY LOCATIONS SHALL NOT INTERFERE WITH THE SIDEWALK HANDICAP RAMPS, OR CURB INLET SUMPS
2. SIDEWALKS, CURB RAMPS, RAMPS AND ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT APPROVED "AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG) ALONG WITH THE REQUIRED GRADES, CONSTRUCTION MATERIALS, SPECIFICATIONS AND SIGNAGE. IF ANY CONFLICT OCCURS BETWEEN THE ABOVE INFORMATION AND THE PLANS, THE ADAAG GUIDELINES SHALL TAKE PRECEDENCE AND THE CONTRACTOR PRIOR TO ANY CONSTRUCTION SHALL NOTIFY THE PROJECT ENGINEER.
   2.1. TRUNCATED DOMES FOR CURB RAMPS LOCATED IN PUBLIC RIGHT OF WAY SHALL MEET PROWAG REQUIREMENTS AND SHALL BE CONSTRUCTED USING RED PRE-CAST TRUNCATED DOMES PER PAVEMENT DETAILS.
3. ANY PROPOSED STRUCTURES WILL NEED A SEPARATE PERMIT FROM THE BUILDING DIVISION.
4. THE CONTRACTOR IS RESPONSIBLE TO CALL MISSOURI ONE CALL AND THE CITY OF O'FALLON FOR THE LOCATION OF UTILITIES. CONTACT THE CITY OF O'FALLON (636) 379-3814 FOR THE LOCATION OF CITY MAINTAINED CABLE FOR STREET LIGHTS AND TRAFFIC SIGNALS, ALL OTHER UTILITIES CALL MISSOURI ONE CALL 1-800-DIG-RITE. 1-800-344-7483
5. ALL PROPOSED UTILITIES AND/OR UTILITY RELOCATIONS SHALL BE LOCATED UNDERGROUND.
6. ALL PROPOSED FENCING REQUIRES A SEPARATE PERMIT THROUGH THE BUILDING SAFETY DIVISION.
7. ALL CONSTRUCTION OPERATIONS AND WORK ZONE TRAFFIC CONTROL WITHIN THE RIGHT OF WAY WILL FOLLOW MoDOT OR M.U.T.C.D. STANDARDS WHICHEVER IS MORE STRINGENT.
8. ALL IDENTIFICATION OR DIRECTIONAL SIGN(S) MUST HAVE THE LOCATIONS AND SIZES APPROVED AND PERMITTED SEPARATELY THROUGH THE PLANNING AND DEVELOPMENT DIVISION.
9. MATERIALS SUCH AS TREES, ORGANIC DEBRIS, RUBBLE, FOUNDATIONS, AND OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. IF THE MATERIAL LISTED PREVIOUSLY ARE REUSED, A LETTER FROM A SOIL ENGINEER MUST CLARIFY AMOUNT, LOCATION, DEPTH, ETC. AND BE APPROVED WITH THE CONSTRUCTION PLANS. LANDFILL TICKETS FOR SUCH DISPOSAL SHALL BE MAINTAINED ON FILE BY THE CONTRACTOR. BURNING ON SITE SHALL BE ALLOWED ONLY BY PERMIT FROM THE LOCAL FIRE DISTRICT. IF A BURN PIT IS PROPOSED THE LOCATION AND MITIGATION SHALL BE SHOWN ON THE GRADING PLAN AND DOCUMENTED BY THE SOILS ENGINEER.
10. TWENTY-FOUR (24) HOURS PRIOR TO STARTING ANY OF THE WORK COVERED BY THE ABOVE PLANS AND AFTER APPROVAL THEREOF, THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE CONSTRUCTION INSPECTION OFFICE TO PROVIDE FOR THE INSPECTION OF THE WORK, SUFFICIENT IN THE OPINION OF THE CITY ENGINEER, TO ASSURE COMPLIANCE WITH THE PLANS AND SPECIFICATIONS AS APPROVED.
11. THE CITY ENGINEER OR THEIR DULY AUTHORIZED REPRESENTATIVE SHALL MAKE ALL NECESSARY INSPECTIONS OF CITY INFRASTRUCTURE, ESCROW ITEMS OR INFRASTRUCTURE LOCATED ON THE APPROVED PLANS.
12. ALL INSTALLATIONS AND CONSTRUCTION SHALL CONFORM TO THE APPROVED ENGINEERING DRAWINGS. HOWEVER, IF THE DEVELOPER CHOOSES TO MAKE MINOR MODIFICATIONS IN DESIGN AND/OR SPECIFICATIONS DURING CONSTRUCTION, HE/SHE SHALL MAKE SUCH CHANGES AT HIS/HER OWN RISK, WITHOUT ANY ASSURANCE THAT THE CITY ENGINEER WILL APPROVE THE COMPLETED INSTALLATION OR CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO NOTIFY THE CITY ENGINEER OF ANY CHANGES FROM THE APPROVED DRAWINGS. THE DEVELOPER MAY BE REQUIRED TO CORRECT THE INSTALLED IMPROVEMENTS SO AS TO CONFIRM TO THE APPROVED ENGINEERING DRAWINGS. THE DEVELOPER MAY BE REQUEST A LETTER FROM THE CONSTRUCTION INSPECTION DIVISION REGARDING ANY FIELD CHANGES APPROVED BY THE CITY INSPECTORS.
13. CITY APPROVAL OF THE CONSTRUCTION SITE PLANS DOES NOT MEAN THAT ANY BUILDING CAN BE CONSTRUCTED ON THE LOTS WITHOUT MEETING THE BUILDING SETBACKS AS REQUIRED BY THE ZONING CODE.

CITY OF O'FALLON FLOODPLAIN INFORMATION

1. REFER TO SECTION 415 OF O'FALLON CITY CODE FOR FLOODPLAIN DEVELOPMENT INFORMATION.

CITY OF O'FALLON LANDSCAPING INFORMATION

1. SITE SHALL BE LANDSCAPED TO THE REQUIREMENTS OF THE CITY OF O'FALLON.
2. ALL DISTURBED AREA SHALL BE SEEDED TO THE REQUIREMENTS OF THE CITY OF O'FALLON.
3. PER SECTION 402.160, AGRICULTURAL DISTRICT "AG" SHALL BE EXEMPT FROM A BUFFER YARD REQUIREMENT.

SHOP DRAWING AND SUBMITTAL REVIEW

1. AS PART OF THE QUALITY CONTROL PLAN, ALL MATERIALS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW WHICH INCLUDES BUT NOT LIMITED TO:
   - CONCRETE MIX DESIGNS
   - ASPHALT MIX DESIGNS, IF APPLICABLE
   - AGGREGATE GRADATION REPORTS APPROVED BY ST. LOUIS COUNTY OR MoDOT
   - STEEL REINFORCEMENT
   - DRAINAGE STRUCTURES, PIPES, CULVERTS, ETC.
   - DETECTABLE WARNING PADS
   - BOLLARDS
   - SIGNAL EQUIPMENT
   - SANITARY SEWER AND LIFT STATION EQUIPMENT
   - WATER MAIN, HYDRANT AND VALVE EQUIPMENT
   - GATES AND FENCING
   - SOD OR SEEDING MIX
2. RELEVANT SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MISSOURI PRIOR TO SUBMITTAL.
3. STRUCTURES WILL BE DESIGNED TO SUSTAIN HS-20 LOADING, AS REQUIRED.

GENERAL ABBREVIATIONS

GENERAL

(ATG)	-	ADJUST TO GRADE
(ATGB0)	-	ADJUST TO GRADE BY OTHERS
(TBA)	-	TO BE ABANDONED
(TBR)	-	TO BE REMOVED
(TBR&R)	-	TO BE REMOVED AND REPLACED
(TBR&REL)	-	TO BE REMOVED AND RELOCATED
(TBR&RBO)	-	TO BE REMOVED, RELOCATED OR REPLACED BY OTHERS
(TBE)	-	TO BE EXTINGUISHED
(UIP)	-	USE IN PLACE
EX	-	EXISTING
PR	-	PROPOSED
TYP	-	TYPICAL
UKN	-	UNKNOWN

UTILITIES

C	-	COMMUNICATION
E	-	ELECTRIC
FOC	-	FIBER OPTIC CABLE
FW	-	FIRE WATER MAIN
G	-	GAS
OU	-	OVERHEAD UTILITIES
T	-	TELEPHONE
UE	-	UNDERGROUND ELECTRIC
W	-	WATER

TOPOGRAPHIC SURVEY

ACC	-	ACCESS
ASPH	-	ASPHALT
BLDG	-	BUILDING
CONC	-	CONCRETE
FENC	-	FENCE
GRND	-	GROUND
GRVL	-	GRAVEL
PVMT	-	PAVEMENT
TUNL	-	TUNNEL

TOPOGRAPHIC SURVEY (CONT.)

BOC	-	BACK OF CURB
FOC	-	FACE OF CURB
BC	-	BOTTOM OF CURB
TC	-	TOP OF CURB
TW	-	TOP OF WALL
BW	-	BOTTOM OF WALL
EG	-	EXISTING GRADE
FG	-	FINISHED GRADE
FF	-	FINISHED FLOOR
LL	-	LOWER LEVEL
OC	-	ON CENTER
EW	-	EACH WAY
AI	-	AREA INLET
CI	-	CURB INLET
CO	-	CLEAN OUT
EP	-	END OF PIPE
FES	-	FLARED END SECTION
FL	-	FLOW LINE
GI	-	GRATE INLET
HW	-	HEADWALL
MH	-	MANHOLE
RD	-	ROOF DRAIN
SAN	-	SANITARY
STRM	-	STORM
YD	-	YARD DRAIN
HDPE	-	HIGH DENSITY POLYETHYLENE
PIPE		
PP	-	CORRUGATED POLYPROPYLENE
PVC	-	POLYVINYL CHLORIDE PIPE
PLAS	-	PLASTIC PIPE
RCP	-	REINFORCED CONCRETE PIPE
VCP	-	VITRIFIED CLAY PIPE
ELEV	-	ELEVATION
HGL	-	HYDRAULIC GRADE LINE
FBD	-	FLAT BOTTOM DITCH
PRC	-	PRECAST REINFORCED CONCRETE

BOUNDARY SURVEY

P.L.	-	PROPERTY LINE
R.O.W.	-	RIGHT OF WAY
N/F	-	NOW OR FORMERLY
DB.	-	DEED BOOK
PB.	-	PLAT BOOK
PG.	-	PAGE
DOC.	-	DOCUMENT
(#'w)	-	RIGHT OF WAY WIDTH
(REC)	-	RECORDED INFORMATION
FT	-	FEET
FND.		- FOUND
SQ.		- SQUARE
PDE	-	PERMANENT DRAINAGE EASEMENT
PRWE	-	PERMANENT RETAINING WALL EASEMENT
PSDE	-	PERMANENT SIGHT DISTANCE EASEMENT
PTSE	-	PERMANENT TRAFFIC SIGNAL EASEMENT
PRMUE	-	PERMANENT ROADWAY MAINTENANCE AND UTILITY EASEMENT
PRIMUSSE	-	PERMANENT ROADWAY IMPROVEMENT, MAINTENANCE, UTILITY, SEWER, SIDEWALK EASEMENT
TCE	-	TEMPORARY CONSTRUCTION EASEMENT
TSCL	-	TEMPORARY SLOPE AND CONSTRUCTION LICENSE

PREPARED BY:

CMT
Crawford, Murphy & Tilly

ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102
OFFICE NO. (314) 436-5500
LICENSE NO. 184-000631

STAMP:

STATE OF MISSOURI
TODD EHLEN
NUMBER PE-2006019649
PROFESSIONAL ENGINEER
06/20/2025

ISSUED FOR CONSTRUCTION

100% CONSTRUCTION DOCUMENTS
JUNE 6, 2025

CENTER FOR ADVANCED SKILLS TRAINING IN LAW ENFORCEMENT PHASE 2

2400 HWY 79
O'FALLON, MO 63366

CITY OF O'FALLON, MO
CITY OF ST. CHARLES, MO

REV.	DATE	DESCRIPTION
1	6/20/25	ADDENDUM 1

PROJECT NO:	22001111.01
CAD DWG FILE:	02_G002-NOTES.DWG
DESIGNED BY:	TME
DRAWN BY:	EMW
CHECKED BY:	TME
APPROVED BY:	--

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SHEET TITLE

GENERAL NOTES

G-002

SHEET

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Date: Thursday, June 19, 2025 4:04:39 PM

CITY OF O'FALLON GRADING NOTES

1. CONTRACTOR MUST SUPPLY CITY CONSTRUCTION INSPECTORS WITH AN ENGINEER'S SOIL REPORTS PRIOR TO AND DURING SITE GRADING. THE SOIL REPORT WILL BE REQUIRED TO CONTAIN THE FOLLOWING INFORMATION ON SOIL TEST CURVES (PROCTOR REPORTS) FOR PROJECTS WITHIN THE CITY:
   - 1.1. MAXIMUM DRY DENSITY
   - 1.2. OPTIMUM MOISTURE CONTENT
   - 1.3. MAXIMUM AND MINIMUM ALLOWABLE MOISTURE CONTENT
   - 1.4. CURVE MUST BE PLOTTED TO SHOW DENSITY FROM A MINIMUM OF 90% COMPACTION AND ABOVE AS DETERMINED BY THE "MODIFIED AASHTO T-180 COMPACTION TEST" (A.S.T.M.-D-1157) OR FROM A MINIMUM OF 95% AS DETERMINED BY THE "STANDARD PROCTOR TEST AASHTO T-99, METHOD C" (A.S.T.M.-D-698). PROCTOR TYPE MUST BE DESIGNATED ON DOCUMENT.
   - 1.5. CURVE MUST HAVE AT LEAST 5 DENSITY POINTS WITH MOISTURE CONTENT AND SAMPLE LOCATIONS LISTED ON DOCUMENT.
   - 1.6. SPECIFIC GRAVITY
   - 1.7. NATURE MOISTURE CONTENT
   - 1.8. LIQUID LIMIT
   - 1.9. PLASTIC LIMIT

   BE ADVISED THAT IF THIS INFORMATION IS NOT PROVIDED TO THE CITY'S CONSTRUCTION INSPECTOR THE CITY WILL NOT ALLOW GRADING OR CONSTRUCTION ACTIVITIES TO PROCEED ON ANY PROJECT SITE.

2. ALL FILL PLACED IN THE AREAS OTHER THAN PROPOSED STORM SEWERS, SANITARY SEWERS, PROPOSED ROADS, AND PAVED AREAS SHALL BE COMPACTED FROM THE BOTTOM OF THE FILL UP IN 8" LIFTS AND COMPACTED TO 90% MAXIMUM DENSITY AS DETERMINED BY MODIFIED AASHTO T-180 COMPACTION TEST OR 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO T-99. ENSURE THE MOISTURE CONTENT OF THE SOIL IN FILL AREAS CORRESPONDS TO THE COMPACTIVE EFFORT AS DEFINED BY THE STANDARD OR MODIFIED PROCTOR TEST. OPTIMUM MOISTURE CONTENT SHALL BE DETERMINED USING THE SAME TESTS THAT WAS USED FOR COMPACTION. SOIL COMPACTION CURVES SHALL BE SUBMITTED TO THE CITY OF O'FALLON PRIOR TO THE PLACEMENT OF FILL.

3. THE SURFACE OF THE FILL SHALL BE FINISHED SO IT WILL NOT IMPOUND WATER. IF AT THE END OF A DAYS WORK IT WOULD APPEAR THAT THERE MAY BE RAIN PRIOR TO THE NEXT WORKING DAY, THE SURFACE SHALL BE FINISHED SMOOTH. IF THE SURFACE HAS BEEN FINISHED SMOOTH FOR ANY REASON, IT SHALL BE SCARIFIED BEFORE PROCEEDING WITH THE PLACEMENT OF SUCCEEDING LIFTS. FILL SHALL NOT BE PLACED ON FROZEN GROUND, NOR SHALL FILLING OPERATIONS CONTINUE WHEN THE TEMPERATURE IS SUCH AS TO PERMIT THE LAYER UNDERNEATH PLACEMENT TO FREEZE.

4. ALL SEDIMENT AND DETENTION BASINS ARE TO BE CONSTRUCTED DURING THE INITIAL PHASE OF THE GRADING OPERATION OR IN ACCORDANCE WITH THE APPROVED SWPPP.

5. WHEN GRADING OPERATIONS ARE COMPLETE OR SUSPENDED FOR MORE THAN 14 DAYS, PERMANENT GRASS MUST BE ESTABLISHED AT SUFFICIENT DENSITY TO PROVIDE EROSION CONTROL ON SITE. BETWEEN PERMANENT GRASS SEEDING PERIODS, TEMPORARY COVER SHALL BE PROVIDED ACCORDING TO MISSOURI DEPARTMENT OF NATURAL RESOURCES PROTECTING WATER QUALITY - A FIELD GUIDE TO EROSION, SEDIMENT AND STORMWATER BEST MANAGEMENT PRACTICES FOR DEVELOPMENT SITES IN MISSOURI AND KANSAS. ALL FINISHED GRADES (AREAS NOT TO BE DISTURBED BY IMPROVEMENTS) IN EXCESS OF 20% SLOPES (5:1) SHALL BE MULCHED AND TACKED AT A RATE OF 100 POUNDS PER 1000 SQUARE FEET WHEN SEEDED.

6. NO SLOPES SHALL EXCEED 3 (HORIZONTAL): 1 (VERTICAL) UNLESS OTHERWISE APPROVED BY THE SOILS REPORT AND SPECIFICALLY LOCATED ON THE PLANS AND APPROVED BY THE CITY ENGINEER.

7. ALL LOW PLACES WHETHER ON SITE OR OFF SHALL BE GRADED TO PROVIDE DRAINAGE WITH TEMPORARY DITCHES.

8. ANY EXISTING WELLS AND/OR SPRINGS WHICH MAY EXIST ON THE PROPERTY MUST BE SEALED IN A MANNER ACCEPTABLE TO THE CITY OF O'FALLON CONSTRUCTION INSPECTION DEPARTMENT AND FOLLOWING MISSOURI DEPARTMENT OF NATURAL RESOURCES STANDARDS AND SPECIFICATIONS.
   - 8.1. ALL TRENCH BACK FILLS UNDER PAVED AREAS SHALL BE GRANULAR BACK FILL, AND COMPACTED MECHANICALLY. ALL OTHER TRENCH BACK FILLS MAY BE EARTH MATERIAL (FREE OF LARGE CLODS, OR STONES) AND COMPACTED USING MECHANICAL TAMPING.

9. SITE GRADING
   - 9.1. WITHIN CITY RIGHT-OF-WAY. MATERIAL IS TO BE PLACED IN WEIGHT (8) INCH TO TWELVE (12) INCH LOOSE LIFTS AND COMPACTED PER THE APPROVED COMPACTION REQUIREMENTS. ONE (1) COMPACTION TEST WILL BE PERFORMED EVERY TWO HUNDRED FIFTY (250) FEET ALONG THE CENTERLINE FOR EACH LIFT.
   - 9.2. OUTSIDE OF CITY RIGHT-OF-WAY. MATERIAL IS TO BE PLACED IN EIGHT (8) INCH TO TWELVE (12) INCH LOOSE LIFTS AND COMPACTED PER THE APPROVED COMPACTION REQUIREMENTS. ONE (1) COMPACTION TEST WILL BE PERFORMED AT TWO (2) FOOT VERTICAL INTERVALS AND APPROXIMATELY EVERY ONE THOUSAND (1,000) CUBIC YARDS.

10. ACCESS TO THE SITE FROM ANY OTHER LOCATION OTHER THAN THE PROPOSED CONSTRUCTION ENTRANCE IS STRICTLY PROHIBITED!

CITY OF O'FALLON 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 CITY OF O'FALLON AND AS NEEDED BY MODOT. THE PERMITTEE'S RESPONSIBILITIES INCLUDE ALL DESIGN AND IMPLEMENTATION AS REQUIRED TO PREVENT EROSION AND THE DEPOSITING OF SILT. THE CITY OF O'FALLON 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 AND/OR SWALES SHALL BE REMOVED AFTER EACH RAIN AND AFFECTED AREAS CLEANED TO THE SATISFACTION OF THE CITY OF O'FALLON AND AS REQUIRED BY MODOT."

2. ALL EROSION CONTROL SYSTEMS ARE TO BE INSPECTED AND CORRECTED WEEKLY, ESPECIALLY WITHIN 48 HOURS OF ANY RAIN STORM RESULTING IN ONE-QUARTER INCH OF RAIN OR MORE. ANY SILT OR DEBRIS LEAVING THE SITE AND AFFECTING PUBLIC RIGHT OF WAY OR STORM WATER DRAINAGE FACILITIES SHALL BE CLEANED UP WITHIN 24 HOURS AFTER THE END OF THE STORM.

3. EROSION CONTROL DEVICES (SILT FENCE, SEDIMENT BASIN, ETC.) SHALL BE IN ACCORDANCE WITH MISSOURI DEPARTMENT OF NATURAL RESOURCES PROTECTING WATER QUALITY - A FIELD GUIDE TO EROSION, SEDIMENT AND STORMWATER BEST MANAGEMENT PRACTICES FOR DEVELOPMENT SITES IN MISSOURI AND KANSAS.

4. THIS DEVELOPMENT IS REQUIRED TO PROVIDE LONG TERM POST CONSTRUCTION BMP'S SUCH AS; LOW IMPACT DESIGN, SOURCE CONTROL AND TREATMENT CONTROLS THAT PROTECTS WATER QUALITY AND CONTROLS RUN OFF TO MAXIMUM EXTENT PRACTICAL IN COMPLIANCE WITH PHASE II ILLICIT STORM WATER DISCHARGE GUIDELINES. (ORD. 5082, SECTION 405.245)

5. GRADED AREAS SHALL BE SEEDED AND MULCHED (STRAWED) WITHIN 14 DAYS OF STOPPING LAND DISTURBANCE ACTIVITIES. UNLESS IT CAN BE SHOWN TO THE CITY ENGINEER THAT WEATHER CONDITIONS ARE NOT FAVORABLE, VEGETATIVE GROWTH IS TO BE ESTABLISHED WITHIN 6 WEEKS OF STOPPING GRADING WORK ON THE PROJECT. THE VEGETATIVE GROWTH ESTABLISHED SHALL BE SUFFICIENT TO PREVENT EROSION AND THE STANDARD SHALL BE AS REQUIRED BY EPA AND DNR. (70% COVERAGE PER SQUARE FOOT) ORD. 6496, SECTION 405.095

CITY OF O'FALLON SANITARY SEWER NOTES

1. ALL SANITARY SEWER INSTALLATION IS TO BE IN ACCORDANCE WITH M.S.D. STANDARDS AND SPECIFICATIONS EXCEPT AS MODIFIED BY THE CITY OF O'FALLON ORDINANCES.

2. BRICK SHALL NOT BE USED IN THE CONSTRUCTION OF SANITARY SEWER STRUCTURES. PRE CAST CONCRETE STRUCTURES ARE TO BE USED UNLESS OTHERWISE APPROVED BY THE CITY OF O'FALLON.

3. CONNECTIONS AT ALL SANITARY STRUCTURES ARE TO BE MADE WITH A-LOCK JOINT OR EQUAL

4. ALL SANITARY LATERALS SHALL BE A MINIMUM OF 4" RESIDENTIAL, 6" COMMERCIAL DIAMETER PIPE.

5. ALL SANITARY MAINS SHALL BE A MINIMUM OF 8" DIAMETER PIPE.

6. ALL SANITARY SEWER LINE WITH A SLOPE GREATER THAN 20% WILL REQUIRE CONCRETE CRADLE OR CONCRETE COLLAR AT EACH PIPE JOINT. SANITARY LINE WITH A SLOPE GREATER THAN 50% WILL REQUIRE A SPECIAL APPROVED DESIGN AS SHOWN ON DETAIL SHEET.

7. ALL MANHOLES BUILT WITHIN THE 100 YEAR FLOOD PLAIN MUST HAVE LOCK TYPE WATERTIGHT MANHOLE COVERS.

8. ALL SANITARY SEWER MAINS MUST HAVE A MINIMUM OF 42" COVER.

9. WHEN SANITARY MAINS CROSS OVER STORM LINE THE SANITARY MAIN MUST BE DUCTILE IRON PIPE FOR 10 FEET ON EACH SIDE OF THE CROSSING.

10. ENCASE WITH CONCRETE BOTH SANITARY AND STORM SEWER AT CROSSING WHEN STORM SEWER IS WITHIN 18 INCHES ABOVE SANITARY SEWER. ADD CONCRETE CRADLE TO ONLY RCP STORM SEWER AND ENCASE FLEXIBLE STORM SEWER WHEN IT IS MORE THAN 18 INCHES ABOVE SANITARY LINE. SHOW ON PROFILE SHEET.

11. THE SANITARY SEWERS SHOULD RUN DIAGONALLY THROUGH THE SIDE YARDS TO MINIMIZE ANY ADDITIONAL UTILITY EASEMENTS REQUIRED.

12. ALL SANITARY SEWER STRUCTURES SHALL BE WATERPROOFED ON THE EXTERIOR IN ACCORDANCE TO MISSOURI DNR SPECIFICATIONS 10CSR-8.120 (7)(E).

13. ALL SANITARY SEWER PIPE SHALL BE SCH 40 OR EQUAL. ALL SANITARY SEWER LATERALS SHALL BE SCH 40 GASKETED PIPE.

14. ALL SANITARY SEWER MANHOLES AND PIPES WILL BE TESTED TO THE FOLLOWING SPECIFICATIONS. ASTM C1244, STANDARD TESTING METHOD FOR CONCRETE SEWER MANHOLE BY NEGATIVE AIR PRESSURE (VACUUM), LATEST REVISION ASTM F1417, STANDARD TESTING METHOD FOR INSTALLATION ACCEPTANCE OF PLASTIC GRAVITY SEWER LINES USING LOW PRESSURE AIR, LATEST REVISION.

15. ADD 1" MINUS ROCK BACK FILL TO ALL SANITARY SEWER AND ALL OTHER UTILITIES THAT LIE WITHIN THE 1:1 SHEAR PLANE OF THE ROAD.

CITY OF O'FALLON STORM SEWER NOTES

1. ALL STORM SEWER INSTALLATION IS TO BE IN ACCORDANCE WITH M.S.D. STANDARDS AND SPECIFICATIONS EXCEPT AS MODIFIED BY THE CITY OF O'FALLON ORDINANCES.

2. BRICK SHALL NOT BE USED IN THE CONSTRUCTION OF STORM SEWER STRUCTURES. PRE CAST CONCRETE STRUCTURES ARE TO BE USED UNLESS OTHERWISE APPROVED BY THE CITY OF O'FALLON.

3. A 5/8" TRASH BAR SHALL BE INSTALLED HORIZONTALLY IN THE CENTER OF THE OPENING(S) IN ALL CURB INLETS AND AREA INLETS.

4. ENCASE WITH CONCRETE BOTH SANITARY AND STORM SEWER AT CROSSING WHEN STORM SEWER IS WITHIN 18 INCHES ABOVE SANITARY SEWER. ADD CONCRETE CRADLE TO ONLY RCP STORM SEWER AND ENCASE FLEXIBLE STORM SEWER WHEN IT IS MORE THAN 18 INCHES ABOVE SANITARY LINE. SHOW ON PROFILE SHEET.

5. THE STORM SEWERS SHOULD RUN DIAGONALLY THROUGH THE SIDE YARDS TO MINIMIZE ANY ADDITIONAL UTILITY EASEMENTS REQUIRED.

6. ALL CONCRETE PIPES WILL BE INSTALLED WITH O-RING RUBBER TYPE GASKETS.

7. CONNECTIONS AT ALL STORM STRUCTURES ARE TO BE MADE WITH A-LOCK JOINT OR EQUAL.

8. PRE CAST CONCRETE INLET COVERS ARE NOT TO BE USED.

9. THE SWALE IN THE DETENTION BASINS SHALL HAVE A MINIMUM 2% LONGITUDINAL SLOPE AND BE LINED WITH A PERMANENT EROSION CONTROL BLANKET THAT WILL ALLOW INFILTRATION OF STORM WATER.

10. ALL STRUCTURES AND FLARED END SECTIONS MUST BE CONCRETE.

11. RIP RAP SHOWN AT FLARED END SECTIONS WILL BE EVALUATED IN THE FIELD BY THE ENGINEER, CONTRACTOR, AND CITY INSPECTORS AFTER INSTALLATION FOR EFFECTIVENESS AND FIELD MODIFIED, IF NECESSARY TO REDUCE EROSION ON AND OFF SITE.

12. ADD 1" MINUS ROCK BACK FILL TO ALL STORM SEWER THAT LIE WITHIN THE 1:1 SHEAR PLANE OF THE ROAD.

CITY OF O'FALLON WATER NOTES

1. FIRE HYDRANTS SHALL BE A MAXIMUM OF 600' APART. LOCAL FIRE DISTRICT APPROVAL IS REQUIRED.

2. COORDINATE WITH THE WATER COMPANY ON THE LOCATION OF WATER METERS. FOR METERS IN THE CITY'S DISTRICT, METERS SHALL BE IN THE RIGHT-OF-WAY, OTHERWISE AN ACCESS EASEMENT FROM THE RIGHT-OF-WAY SHALL BE PROVIDED.

3. ALL WATER MAIN MUST HAVE A MINIMUM OF 42" OF COVER. (CITY WATER MAINS)

4. PROVIDE WATER VALVES TO ISOLATE THE SYSTEM.

5. ALL WATER MAINS SHALL BE C900 DR 18 PVC OR EQUAL WITH LOCATOR/TRACER WIRES. 1

6. IF THE EXCAVATIONS ARE MADE IN THE IMPROVED PORTION OF THE RIGHT-OF-WAY, TWELVE INCHES OF GRANULAR BACKFILL WILL BE PLACED OVER EXPOSED FACILITIES AND CONTROLLED LOW STRENGTH MATERIAL (CLSM) AKA FLOWABLE FILL WILL FILL THE HOLE WITH EIGHT INCHES OF THE FINISHED SURFACE FOR CONCRETE PAVEMENT. THERE WILL BE A PLASTIC MEMBRANE PLACED BETWEEN THE ROCK BASE AND THE CLSM TO PREVENT THE MATERIAL FROM BLEEDING INTO THE ROCK BASE. THE REMAINING EIGHT INCHES WILL BE RESTORED BY PLACING A 28 DAY, 4,000 PSD CONCRETE MIX.

7. DISINFECTING: DISINFECTING SHALL BE ACCOMPLISHED BY PLACING SUFFICIENT HYPO CHLORITE GRANULE (HTH) IN EACH SECTION OF PIPE TO ACHIEVE A CHLORINE RESIDUAL IN THE PIPELINE, UPON INITIAL FILLING, OF 50 MG/L (PPM). HT. TABLETS WILL NOT BE ALLOWED. FOLLOWING COMPLETION OF THE PIPELINE, IT SHALL BE SLOWLY FILLED WITH WATER AND A SAMPLE WILL BE TAKEN IMMEDIATELY AND THE CHLORINE RESIDUAL MUST BE 50 MG/L OR GREATER. THE SOLUTION SHALL BE ALLOWED TO STAND FOR 24 HOURS AND A SAMPLE SHALL THEN BE TAKEN. THE CHLORINE RESIDUAL AFTER 24 HOURS SHALL BE 30 MG/L OR GREATER. IF THE PIPING SHOWS INSUFFICIENT CHLORINE RESIDUALS IN EITHER TEST, THE PIPING SHALL BE RE-CHLORINATED BY THE INJECTION OF HYPO CHLORITE SOLUTION UNTIL SATISFACTORY RESULTS ARE ACHIEVED. ALL DISINFECTING SHALL BE DONE BY THE CONTRACTOR. ONLY THE TESTING TO DETERMINE THE CHLORINE RESIDUAL WILL BE DONE BY THE CITY.

8. PRESSURE TESTING: IMMEDIATELY FOLLOWING DISINFECTION, THE PIPING SHALL BE PUMPED TO A PRESSURE (AT THE HIGHEST POINT IN THE PROJECT) OF 150 PSI OR HIGHER WHERE THE WORKING PRESSURE IS HIGHER THAN 150 PSI AS DETERMINED BY THE CITY. IN SUCH CASES, THE PRESSURE SHALL BE AS SPECIFIED BY THE CITY AND TWO PRESSURE TESTS SHALL BE CONDUCTED. THE FIRST TEST SHALL BE WITH THE FIRE HYDRANT AUXILIARY VALVE OPEN AND BE TO 50 PSI. THE SECOND TEST SHALL BE WITH THE FIRE HYDRANT AUXILIARY VALVE CLOSED AND BE TO THE HIGHER PRESSURE AS DIRECTED BY THE CITY. ALL PUMPING EQUIPMENT AND PRESSURE GAUGES SHALL BE PROVIDED BY THE CONTRACTOR. AFTER ACHIEVING THE TEST PRESSURE, THE PIPING SHALL BE LEFT CLOSED FOR A PERIOD OF TWO (2) HOURS. AT THE END OF THIS TIME THE PRESSURE DROP SHALL NOT EXCEED 2 PSI. IN ADDITION, IF THE PRESSURE APPEARS, IN JUDGMENT OF THE CITY'S REPRESENTATIVE, TO BE CONTINUING TO DROP, THE TEST SHALL BE CONTINUED FOR ANOTHER TWO (2) HOURS AND IF ANY FURTHER DROPS OCCUR, THE TEST SHALL BE CONSIDERED A FAILURE. IF THE PRESSURE TEST FAILS, THE CONTRACTOR WILL BE REQUIRED TO FIND AND CORRECT THE SOURCE OF THE LEAKAGE. IF THIS REQUIRES DRAINING OF THE PIPELINE, WHEN THE LEAKAGE IS CORRECTED, THE PIPELINE MUST BE RE-DISINFECTED AND THE PRESSURE TESTED AGAIN UNTIL SATISFACTORY RESULT ARE ACHIEVED. ANY MDNR REQUIRED DECHLORINATION WILL BE PERFORMED BY THE CONTRACTOR.

9. ALL TOPS FOR VALVES, METERS, AND MANHOLES ARE TO BE CONSTRUCTED TO WITHIN 1 INCH (0.08') OF FINISH GRADE. GRADING AROUND STRUCTURE TOPS ON SLOPES NEED TO BE ACCOUNTED FOR.

10. BACTERIOLOGICAL TESTING: AFTER SATISFACTORY DISINFECTION AND PRESSURE TESTING, A SAMPLE SHALL BE TAKEN BY THE CONTRACTOR IN THE PRESENCE OF A CITY REPRESENTATIVE AND SUBMITTED TO A LABORATORY APPROVED BY THE MISSOURI DEPARTMENT OF NATURAL RESOURCES AND THE CITY FOR BACTERIOLOGICAL ANALYSIS. AFTER 24 HOURS, A SECOND SAMPLE SHALL BE TAKEN IN A LIKE MANNER AND SUBMITTED FOR ANALYSIS. THE TWO SAMPLES TAKEN ON CONSECUTIVE DAYS, A MINIMUM OF 24 HOURS APART, MUST BE FOUND TO BE "SAFE" BY THE TESTING LABORATORY, AND COPIES OF THE TEST RESULTS MUST BE SUPPLIED TO THE CITY. IF THE SAMPLES ARE NOT FOUND TO BE "SAFE" FURTHER FLUSHING AND/OR DISINFECTION AS DIRECTED BY THE CITY SHALL BE CONDUCTED BY THE CONTRACTOR UNTIL "SAFE" SAMPLES ON TWO CONSECUTIVE TEST DAYS ARE ACHIEVED. FOLLOWING SUCCESSFUL BACTERIOLOGICAL TESTING AND A DETERMINATION BY THE CITY THAT THE SAMPLES ARE "SAFE", THE MAINS MAY BE PLACED INTO SERVICE.

SPECIAL STORM AND SANITARY SEWER GRADE NOTES

1. FOR STORM SEWER PIPE WITH A DESIGN GRADE LESS THAN ONE PERCENT (1%), VERIFICATION OF THE PIPE GRADE WILL BE REQUIRED FOR EACH INSTALLED REACH OF SEWER, PRIOR TO ANY SURFACE RESTORATION OR INSTALLATION OF ANY SURFACE IMPROVEMENTS. THE CONTRACTOR'S FIELD SUPERVISOR WILL BE REQUIRED TO PROVIDE DAILY DOCUMENTATION VERIFYING THAT THE AS-BUILT PIPE GRADE MEETS THE DESIGN GRADE THROUGH THE SUBMITTAL OF SIGNED CUT SHEETS TO THE INSPECTOR UPON REQUEST.

2. FIELD SURVEYED VERIFICATION MUST BE MADE UNDER THE DIRECTION OF A LICENSED LAND SURVEYOR OR REGISTERED ENGINEER. THE CONTRACTOR WILL BE REQUIRED TO REMOVE AND REPLACE ANY SEWER REACH HAVING AN AS-BUILT GRADE WHICH IS FLATTER THAN THE DESIGN GRADE BY MORE THAN 0.1%. SEWERS WITH GRADES GREATER THAN THE DESIGN SLOPE MAY BE LEFT IN PLACE, PROVIDED NO OTHER SEWER GRADE IS REDUCED BY THIS VARIANCE IN THE AS-BUILT.

3. THE SEWER CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH THE FIELD VERIFICATION OF THE SEWER GRADE, OR REMOVAL AND REPLACEMENT OF THE SEWER PIPE.

CITY OF O'FALLON ROADWAY NOTES

1. ALL PAVING (PUBLIC AND PRIVATE) TO BE IN ACCORDANCE WITH ST. LOUIS COUNTY STANDARDS AND SPECIFICATIONS EXCEPT AS MODIFIED BY THE CITY OF O'FALLON ORDINANCES.

2. IF THE INTERSECTING ROAD DOES NOT HAVE A CURB, THEN THE CURB ON THE NEW ENTRANCE SHALL BEGIN 10' FROM THE EDGE OF THE EXISTING ROAD.

3. PROVIDE 7" OF CONCRETE OVER 5" OF AGGREGATE BASE ROCK OR ASPHALT EQUIVALENT, UNLESS OTHERWISE NOTED.
   - 3.1. ROCK TO MEET THE ALL THE REQUIREMENTS OF MODOT TYPE 5 ROCK WITH A TIGHTER RESTRICTION ON THE FINES BEING THAT NO MORE THAN TEN PERCENT (10%) FINES SHALL PASS A NO. 200 SIEVE. (CITY CODE 405.210.B.1) THE GRADATION OF THIS ROCK NEEDS TO BE SUBMITTED TO THE CITY FOR APPROVAL. ANY DELIVERIES MADE WITHOUT THE PROPER DELIVERY TICKET, INCLUDING SIGNATURE, WILL NOT BE ACCEPTED. THE DELIVERY TICKET MUST LIST THE PROJECT NAME OR JOBSITE LOCATION. A SEPARATE CERTIFICATION SHEET MAY BE PROVIDED ATTACHED TO THE DELIVERY TICKET WITH A SIGNATURE OF THE COMPANY'S QUALITY CONTROL MANAGER. THE QUALITY CONTROL CERTIFICATION MUST BE CURRENT AND DATED WITHIN 4 WEEKS OF THE DELIVERY. (CITY CODE 405.210.A.2.K)

4. TYPE C (BP-1) COMPACTION REQUIREMENTS SHALL BE 98% MINIMUM DENSITY ACCORDING TO ST. LOUIS COUNTY STANDARD SPECIFICATIONS.

5. ALL SUB GRADE IN CUT OR FILL WILL NEED TO CONFORM TO THE CITY OF O'FALLON COMPACTION REQUIREMENTS

6. MATERIAL TESTING AND FREQUENCY. MATERIALS FOR CONSTRUCTION SHALL BE TESTED AND INSPECTED PER THE APPROPRIATE ASTM CODE OR AT THE CITY ENGINEER'S DISCRETION. THE DEVELOPER'S ENGINEER SHALL PERFORM QUALITY CONTROL GUIDELINES, IN ACCORDANCE WITH ST. LOUIS COUNTY REQUIREMENTS 501.3.1.

7. APPROVAL OF SUB GRADE AND BASE (SUB BASE). THE CITY ENGINEER OR REPRESENTATIVE SHALL APPROVE THE SUB GRADE BEFORE ANY BASE IS PLACED THEREON AND SHALL APPROVE THE BASE BEFORE CONCRETE OR SURFACE COURSE IS PLACED. THE SUB GRADE AND BASE SHALL BE SO CONSTRUCTED THAT IT WILL BE UNIFORM IN DENSITY THROUGHOUT.

8. IN ALL FILL AREAS IN THE ROADWAYS, SOIL TESTS SHALL BE SUBMITTED AND APPROVED BY THE CITY ENGINEER FOR EACH FOOT OF FILL AND AT LEAST ONE (1) TEST AND AN AVERAGE OF ONE (1) TEST WITHIN EVERY TWO HUNDRED FIFTY (250) FEET.

9. NO TRAFFIC WILL BE ALLOWED ON NEW CONCRETE PAVEMENT UNTIL IT HAS CURED FOR SEVEN (7) DAYS AND IT REACHES THREE THOUSAND FIVE HUNDRED (3,500) PSI WITHIN 28 DAYS.
   - 9.1. CONCRETE PAVEMENTS SHALL NOT BE APPROVED UNLESS IT REACHES A STRENGTH OF FOUR THOUSAND (4,000) PSI. CYLINDERS/COMPRESSIVE STRENGTH. ONE (1) SET OF FOUR (5) CYLINDERS WITHIN THE FIRST FIFTY (50) CUBIC YARDS AND ONE (1) SET PER ONE HUNDRED (100) CUBIC YARDS THEREAFTER. ONE (1) CYLINDER MUST BE TESTED AT SEVEN (7) DAYS, THREE (3) AT TWENTY-EIGHT (28) DAYS, AND ONE (1) HELD IN RESERVE.

10. PRIOR TO PLACEMENT OF AGGREGATE BASE MATERIAL ON SUB GRADE AND PRIOR TO PLACEMENT OF PAVEMENT ON BASE MATERIAL, THE SUB GRADE AND BASE MUST BE PROOF-ROLLED WITH A FULLY LOADED (TEN (10) TON LOAD) TANDEM TRUCK OR EQUIVALENT TIRE VEHICLE WITH ONE (1) PASS DOWN EACH DRIVING LANE NO FASTER THAN THREE (3) MILES PER HOUR. IF SOFT SPOTS ARE DETECTED, OR PUMPING, RUTTING OR HEAVING OCCURS GREATER THAN ONE (1) INCH AT THE SUB GRADE, THE ROADBED SHALL BE CONSIDERED UNSATISFACTORY AND THE SOIL IN THESE AREAS SHALL BE REMEDIATED TO THE DEPTH INDICATED BY THE CONTRACTOR'S TESTING FIRM AND APPROVED BY A REPRESENTATIVE OF THE CITY ENGINEER.

11. SUB GRADE AND BASE BENEATH PAVEMENTS SHALL BE COMPACTED TO ST. LOUIS COUNTY HIGHWAY DEPARTMENT SPECIFICATIONS. THE MOISTURE RANGE SHALL BE DETERMINED BY THE STANDARD OR MODIFIED PROCTOR DENSITY METHOD AASHTO T-99 AND WITHIN -2/+4 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT.

12. THE ENTIRE WIDTH AND LENGTH WILL CONFORM TO LINE, GRADE AND CROSS SECTION SHOWN ON THE PLANS OR AS ESTABLISHED BY THE ENGINEER. IF ANY SETTLING OR WASHING OCCURS, OR WHERE HAULING RESULTS IN RUTS OR OTHER OBJECTIONABLE IRREGULARITIES, THE CONTRACTOR SHALL IMPROVE THE SUB GRADE OR BASE TO THE SATISFACTION OF THE CITY BEFORE THE PAVEMENT IS PLACED. ADDITIONAL ROLLING OR METHODS TO VERIFY COMPACTION SHALL BE AT THE DISCRETION OF THE CITY ENGINEER. TOLERANCE ALLOWED ON ALL LINES, GRADES AND CROSS SECTIONS SHALL BE PLUS OR MINUS FOUR-HUNDREDTHS (+0.04) FEET.

13. UTILITY WORK PRIOR TO BASE CONSTRUCTION. NO BASE COURSE WORK MAY PROCEED ON ANY STREET UNTIL ALL UTILITY EXCAVATIONS (STORM AND SANITARY SEWERS, WATER, GAS, ELECTRIC, ETC.) HAVE BEEN PROPERLY BACK FILLED WITH GRANULAR MATERIAL, CRUSHED STONE OR GRAVEL MECHANICALLY TAMPED IN TEN (10) INCH LIFTS. UTILITIES INSTALLED AFTER SUB GRADE PREPARATION SHALL BE BORED. COMPACTION REQUIREMENTS SHALL FOLLOW ST. LOUIS COUNTY STANDARDS.

14. EQUIPMENT CALIBRATION. THE DEVELOPER'S CONTRACTORS AND SUBCONTRACTORS MUST HAVE THEIR EQUIPMENT CALIBRATED BY THE FOLLOWING MINIMUM STANDARDS.
   - 14.1. AIR METER--WEEKLY.
   - 14.2. CYLINDER COMPRESSION--ANNUALLY BY INDEPENDENT CALIBRATION SERVICE.
   - 14.3. BATCH SCALES--MONTHLY.
   - 14.4. NUCLEAR TESTING DEVICES--EVERY SIX (6) MONTHS.
   - 14.5. PROCTOR EQUIPMENT--EVERY SIX (6) MONTHS.
   - 14.6. SLUMP CONE--MONTHLY.

15. ALL PERMANENT TRAFFIC CONTROL WILL BE PER M.U.T.C.D. OR MODOT STANDARDS. S1-1 FROM THE M.U.T.C.D. MANUAL WILL BE USED AT ALL CROSSWALK LOCATIONS ACCOMPANIED WITH ETHER W16-9P OR W16-7P SIGNS.

16. ALL TRAFFIC SIGNALS, STREET SIGNS, SIGN POST, BACKS AND BRACKET ARMS SHALL BE PAINTED BLACK USING CARBOLINE RUST BOND PENETRATING SEALER SG AND CARBOLINE 133 HB PAINT (OR EQUIVALENT AS APPROVED BY CITY OF O'FALLON AND MODOT), UNLESS OTHERWISE NOTED.

17. IF THE EXCAVATIONS ARE MADE IN THE IMPROVED PORTION OF THE RIGHT-OF-WAY, TWELVE INCHES OF GRANULAR BACKFILL WILL BE PLACED OVER EXPOSED FACILITIES AND CONTROLLED LOW STRENGTH MATERIAL (CLSM) AKA FLOWABLE FILL WILL FILL THE HOLE WITH EIGHT INCHES OF THE FINISHED SURFACE FOR CONCRETE PAVEMENT. THERE WILL BE A PLASTIC MEMBRANE PLACED BETWEEN THE ROCK BASE AND THE CLSM TO PREVENT THE MATERIAL FROM BLEEDING INTO THE ROCK BASE. THE REMAINING EIGHT INCHES WILL BE RESTORED BY PLACING A 28 DAY, 4,000 PSI CONCRETE MIX.

PREPARED BY:

CMT
Crawford, Murphy & Tilly

ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102
OFFICE NO. (314) 436-5500
LICENSE NO. 184-000631

STAMP:

STATE OF MISSOURI
TODD EHLEN
NUMBER PE-2006019649
PROFESSIONAL ENGINEER
06/20/2025

ISSUED FOR CONSTRUCTION

100% CONSTRUCTION DOCUMENTS
JUNE 6, 2025

CENTER FOR ADVANCED SKILLS TRAINING IN LAW ENFORCEMENT PHASE 2

2400 HWY 79
O'FALLON, MO 63366

CITY OF O'FALLON, MO
CITY OF ST. CHARLES, MO

REV.	DATE	DESCRIPTION
1	6/20/25	ADDENDUM 1

PROJECT NO:	22001111.01
CAD DWG FILE:	02_G002-NOTES.DWG
DESIGNED BY:	TME
DRAWN BY:	EMW
CHECKED BY:	TME
APPROVED BY:	--

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SHEET TITLE

GENERAL NOTES

G-003

SHEET

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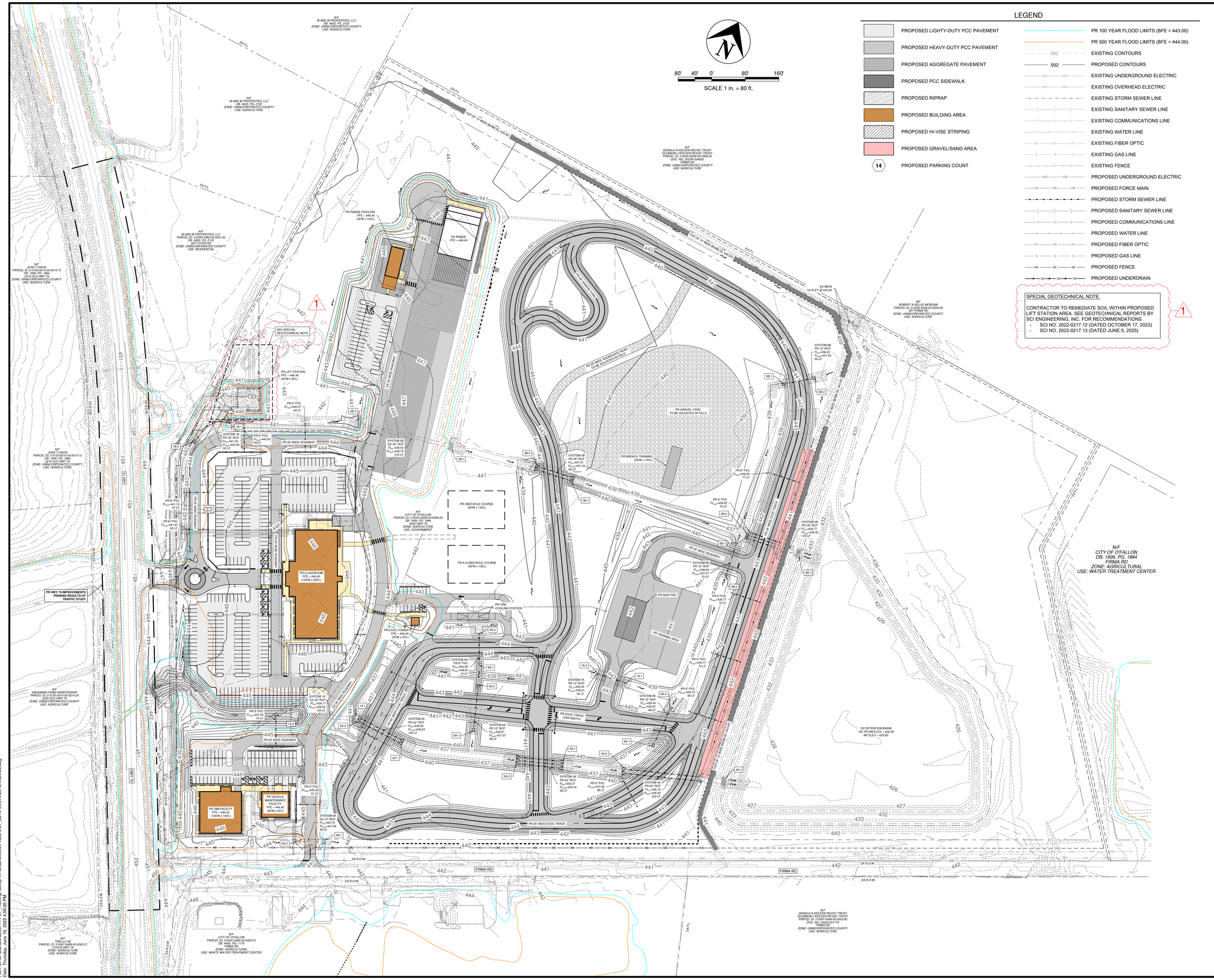

LEGEND

- PROPOSED LIGHTY-DUTY PCC PAVEMENT
- PROPOSED HEAVY-DUTY PCC PAVEMENT
- PROPOSED AGGREGATE PAVEMENT
- PROPOSED PCC SIDEWALK
- PROPOSED RIPRAP
- PROPOSED BUILDING AREA
- PROPOSED HI-VISE STRIPING
- PROPOSED GRAVEL/SAND AREA
- 14 PROPOSED PARKING COUNT

SPECIAL GEOTECHNICAL NOTE:

CONTRACTOR TO REMEDIATE SOIL WITHIN PROPOSED LIFT STATION AREA. SEE GEOTECHNICAL REPORTS BY SCI ENGINEERING, INC. FOR RECOMMENDATIONS.
- SCI NO. 2022-0217.12 (DATED OCTOBER 17, 2023)
- SCI NO. 2022-0217.13 (DATED JUNE 5, 2025)

1

PREPARED BY:

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CITY OF O'FALLON, MO
CITY OF ST. CHARLES, MO

REV.	DATE	DESCRIPTION
1	6/20/25	ADDENDUM 1

PROJECT NO:	22001111.01
CAD DWG FILE:	07_C210-OVERALL GRADING.DWG
DESIGNED BY:	TME
DRAWN BY:	EMW
CHECKED BY:	TME
APPROVED BY:	--
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SHEET TITLE

OVERALL GRADING PLAN

C-210
SHEET

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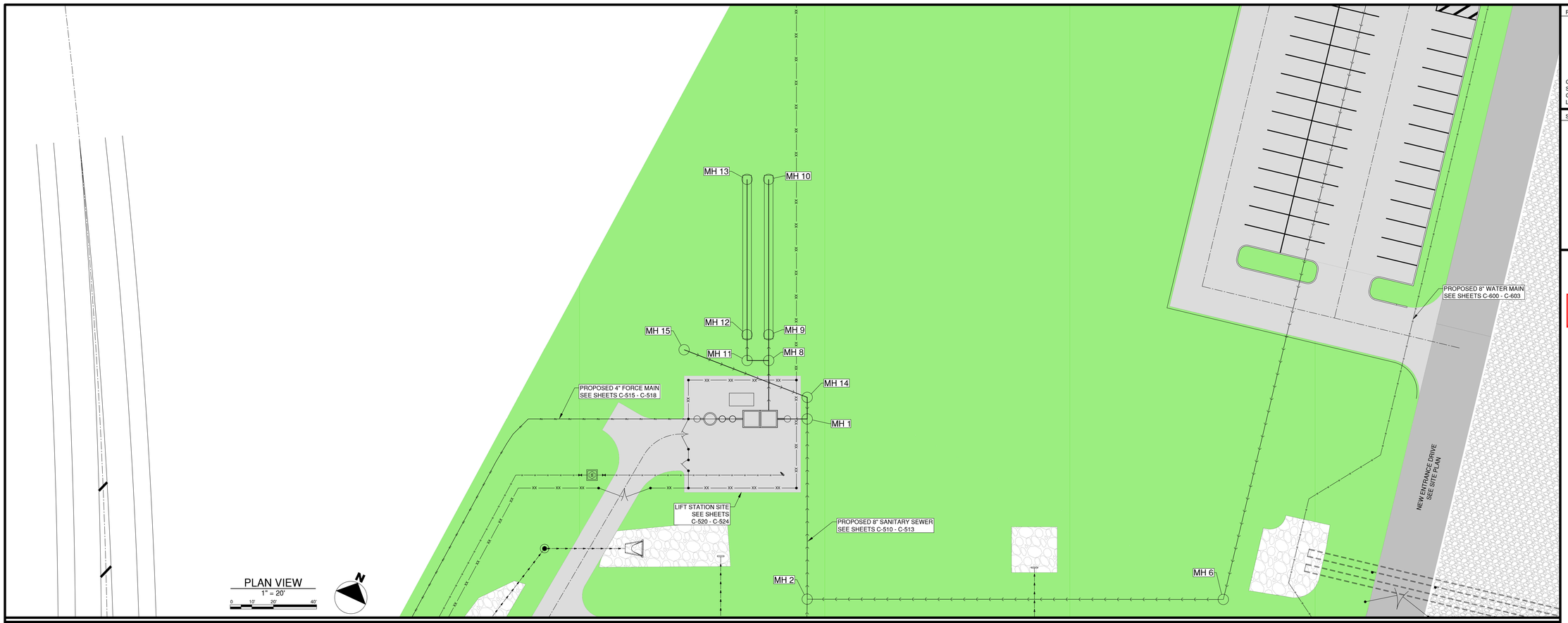

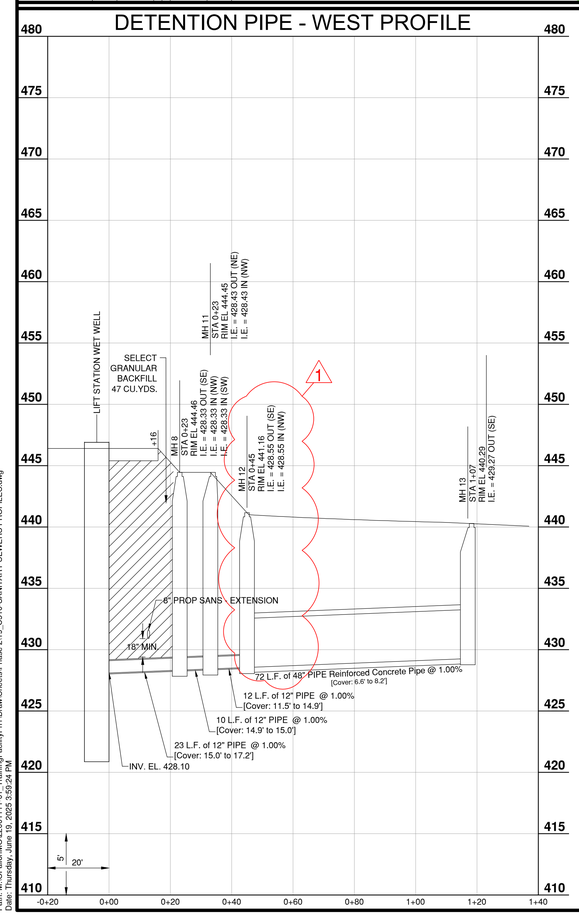

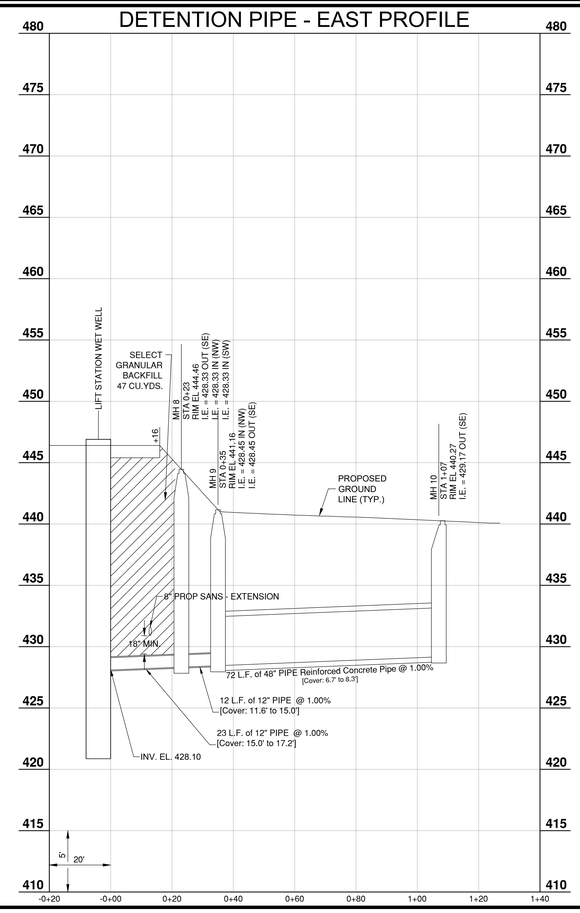

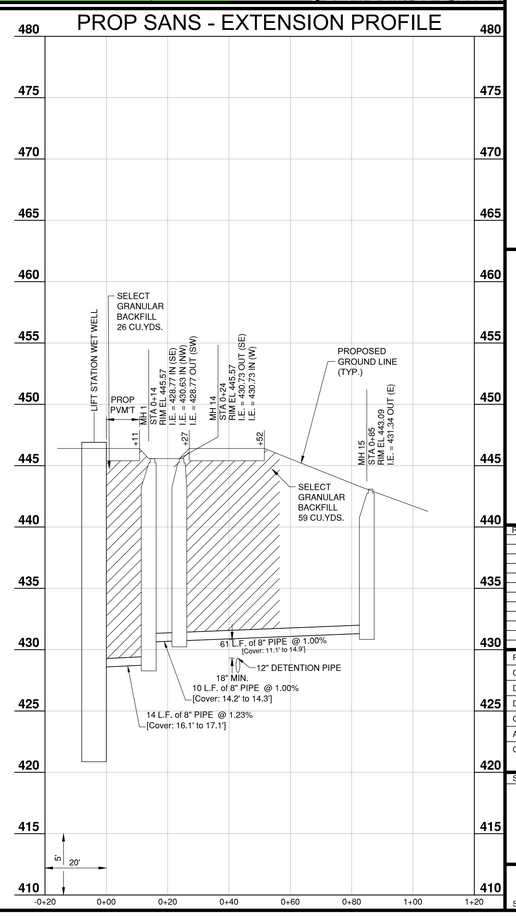

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CITY OF O'FALLON, MO
CITY OF ST. CHARLES, MO

REV.	DATE	DESCRIPTION
1	6/20/25	ADDENDUM 1

PROJECT NO:	22001111.01
CAD DWG FILE:	19_C510-SANITARY SEWERS PROFILES.DWG
DESIGNED BY:	TME
DRAWN BY:	EMW
CHECKED BY:	--
APPROVED BY:	--

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SHEET TITLE

DETENTION PIPE & EXTENSION PLAN & PROFILE

SHEET C-519

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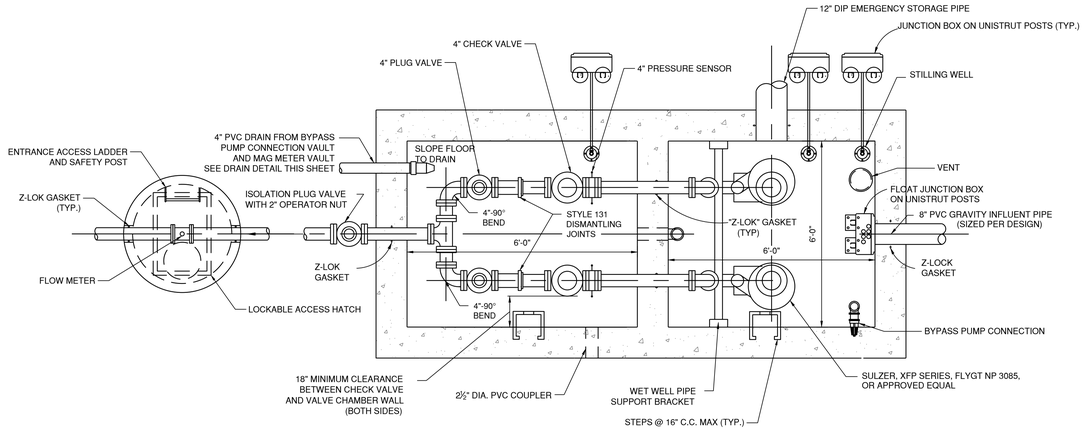
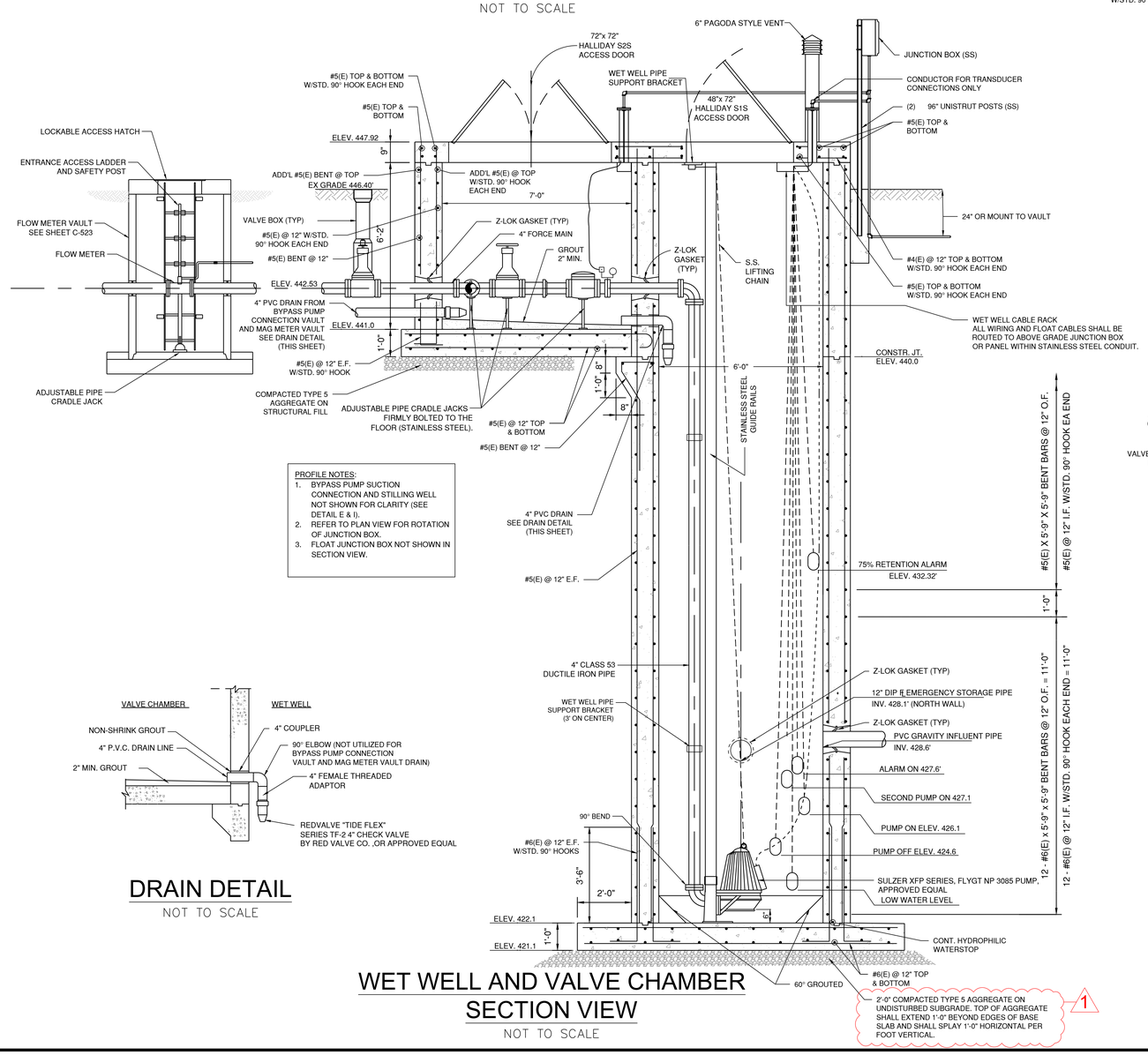


WET WELL AND VALVE CHAMBER PLAN VIEW

NOT TO SCALE



PROFILE NOTES:
1. BYPASS PUMP SUCTION CONNECTION AND STILLING WELL NOT SHOWN FOR CLARITY (SEE DETAIL E & I).
2. REFER TO PLAN VIEW FOR ROTATION OF JUNCTION BOX.
3. FLOAT JUNCTION BOX NOT SHOWN IN SECTION VIEW.

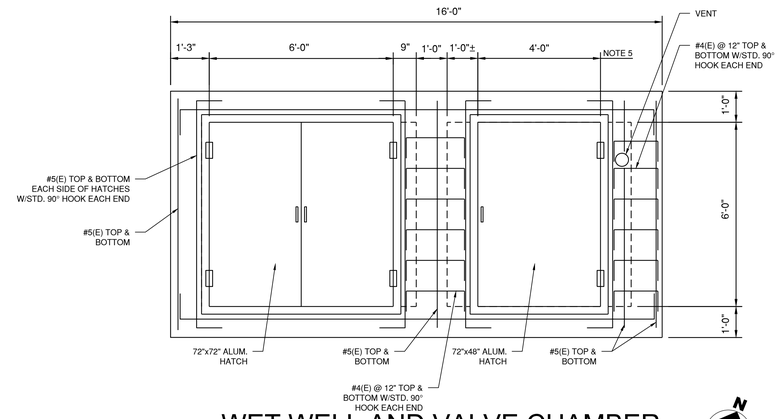
WET WELL AND VALVE CHAMBER SECTION VIEW

NOT TO SCALE

DRAIN DETAIL

NOT TO SCALE

NOTES:
1. PUMP STATIONS SHALL MEET ALL STATE MINIMUM DESIGN REQUIREMENTS AND BE APPROVED BY THE CITY OF O'FALLON WATER AND SEWER DIVISION.
2. PUMP STATIONS SHALL MEET ALL STATE MINIMUM DESIGN REQUIREMENTS AND BE APPROVED BY THE CITY OF O'FALLON WATER AND SEWER DIVISION.
3. CONTRACTOR TO COORDINATE SIZE AND LOCATIONS OF ACCESS DOOR OPENING PER SPECIFICATION.
4. ONE 2-1/2" HOLE SHALL BE PLACED ON EACH SIDE OF THE VALVE CHAMBER SIDE WALLS 18" FROM THE TIE WALL AND 18" FROM THE TOP OF THE STRUCTURE. A 2-1/2" PVC COUPLER SHALL BE CAST IN EACH HOLE. ONE OF THE OPENINGS IS TO BE USED FOR THE POWER AND CONTROL WIRES FROM THE PANEL BOARD. TWO OPENINGS ARE PROVIDED FOR FLEXIBILITY. THE OPENING NOT USED SHALL BE STUBBED AND CAPPED WITH A PIECE OF 2-1/2" PVC.
5. ALL PIPING SHALL BE LOCATED A MINIMUM OF 1 FOOT ABOVE OR BELOW STRUCTURE JOINTS.
6. FLOAT JUNCTION BOX TO HAVE INDIVIDUAL DEDICATED CONDUIT FOR EACH FLOAT CABLE
7. ALL EQUIPMENT, PIPING, AND VALVES TO BE DUCTILE IRON, PER MSD PUMP STATION DESIGN REQUIREMENTS, 2022.



WET WELL AND VALVE CHAMBER TOP SLAB PLAN

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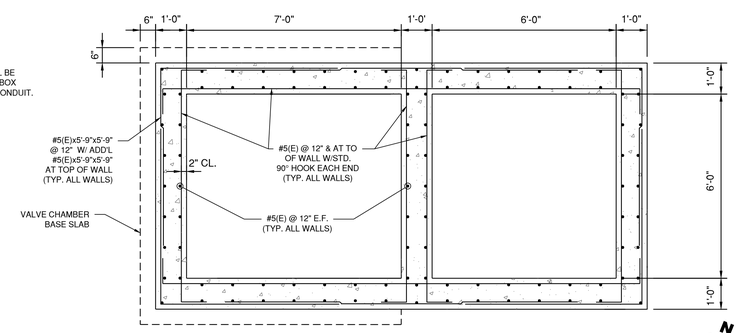

WET WELL AND VALVE CHAMBER WALL PLAN

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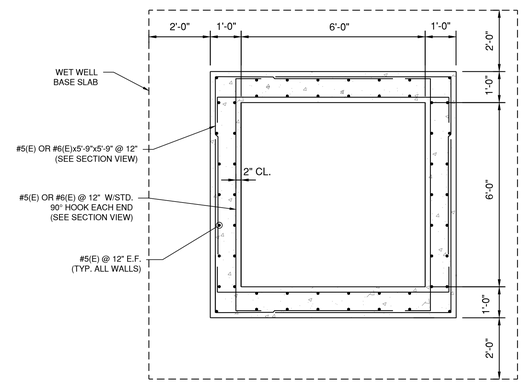

WET WELL WALL PLAN

NOT TO SCALE

PREPARED BY:

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ST. LOUIS, MO 63102
OFFICE NO. (314) 436-5500
LICENSE NO. 184-000631

STAMP:

STATE OF MISSOURI
TODD EHLEN
NUMBER PE-2006019649
PROFESSIONAL ENGINEER
06/20/2025

ISSUED FOR CONSTRUCTION

100% CONSTRUCTION DOCUMENTS
JUNE 6, 2025

CENTER FOR ADVANCED SKILLS TRAINING IN LAW ENFORCEMENT PHASE 2

2400 HWY 79
O'FALLON, MO 63366

CITY OF O'FALLON, MO
CITY OF ST. CHARLES, MO

REV.	DATE	DESCRIPTION
1	6/20/25	ADDENDUM 1

PROJECT NO:	22001111.01
CAD DWG FILE:	20_C520-LIFT STATION DETAILS.DWG
DESIGNED BY:	TME
DRAWN BY:	EMW
CHECKED BY:	TME
APPROVED BY:	--

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SHEET TITLE

LIFT STATION PLAN AND SECTION

SHEET

C-521

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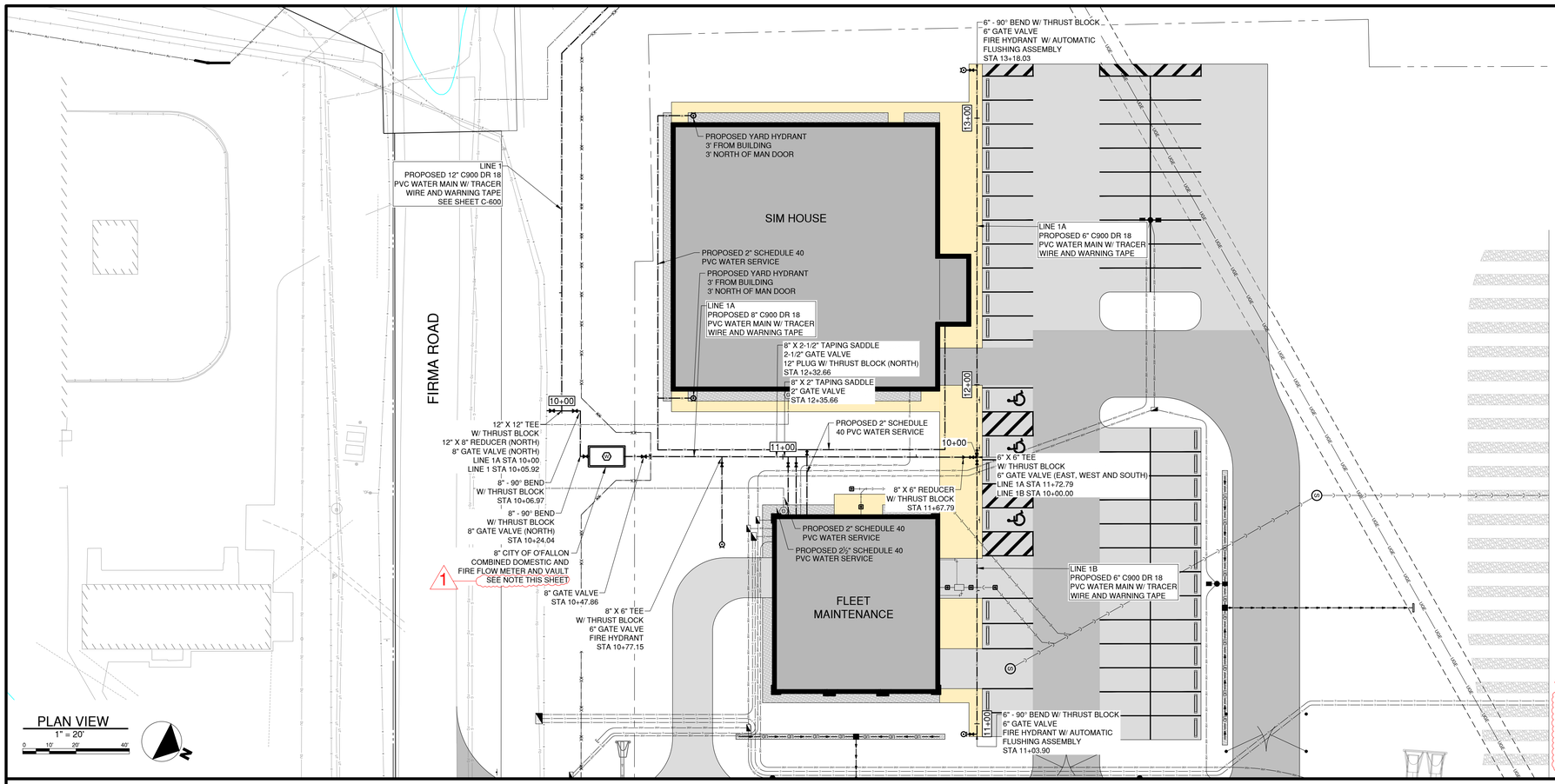
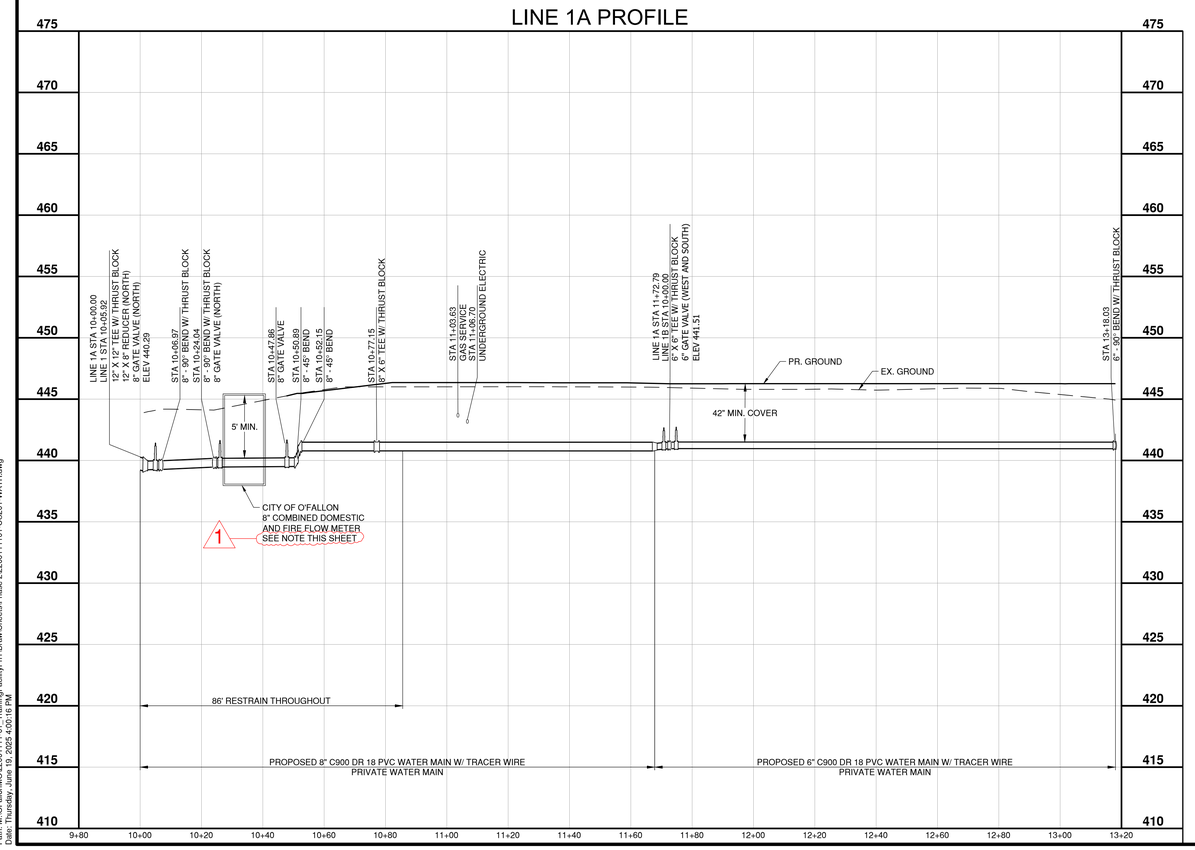


NOTE:

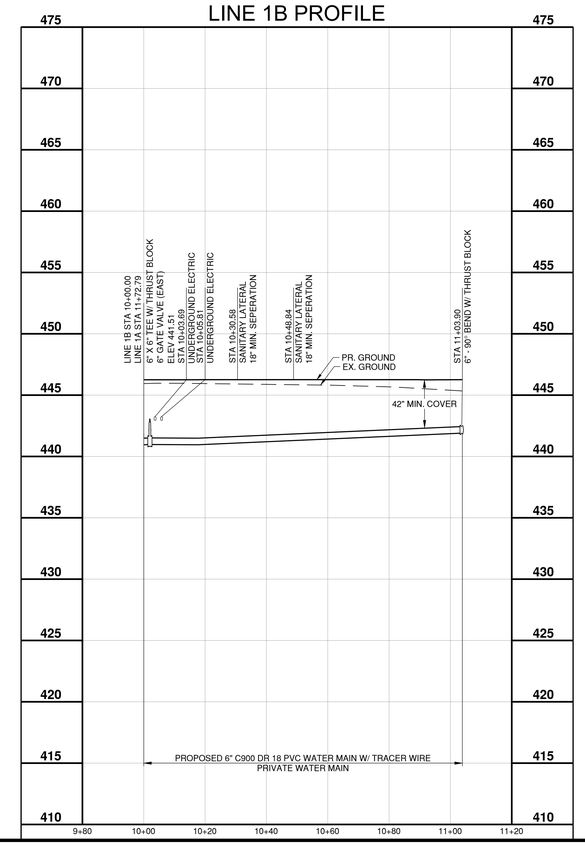
THIS NOTE SHALL SUPERSEDE CITY OF O'FALLON STANDARD DETAILS. THE VAULTS:

1. SHALL BE FITTING WITH A LOCKING DEVICE, AND
2. SHALL BE FRAMED AT LEAST SIX INCHES, BUT NOT MORE THAN 1 FOOT ABOVE THE FINAL GROUND SURFACE, AND
3. SHALL BE FITTED WITH A SOLID, WATERTIGHT, HINGED COVER, AND
4. THE COVER SHALL BE SELF-SUPPORTING WHEN OPEN.

LINE 1A PROFILE



LINE 1B PROFILE



PREPARED BY:

CMT
Crawford, Murphy & Tilly

ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102
OFFICE NO. (314) 436-5500
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REV.	DATE	DESCRIPTION
1	6/20/25	ADDENDUM 1

PROJECT NO:	22001111.01
CAD DWG FILE:	2200111101-CU201-WATR.DWG
DESIGNED BY:	HLW
DRAWN BY:	HLW
CHECKED BY:	TME
APPROVED BY:	TME

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SHEET TITLE

WATER PLAN & PROFILE

C-602

SHEET

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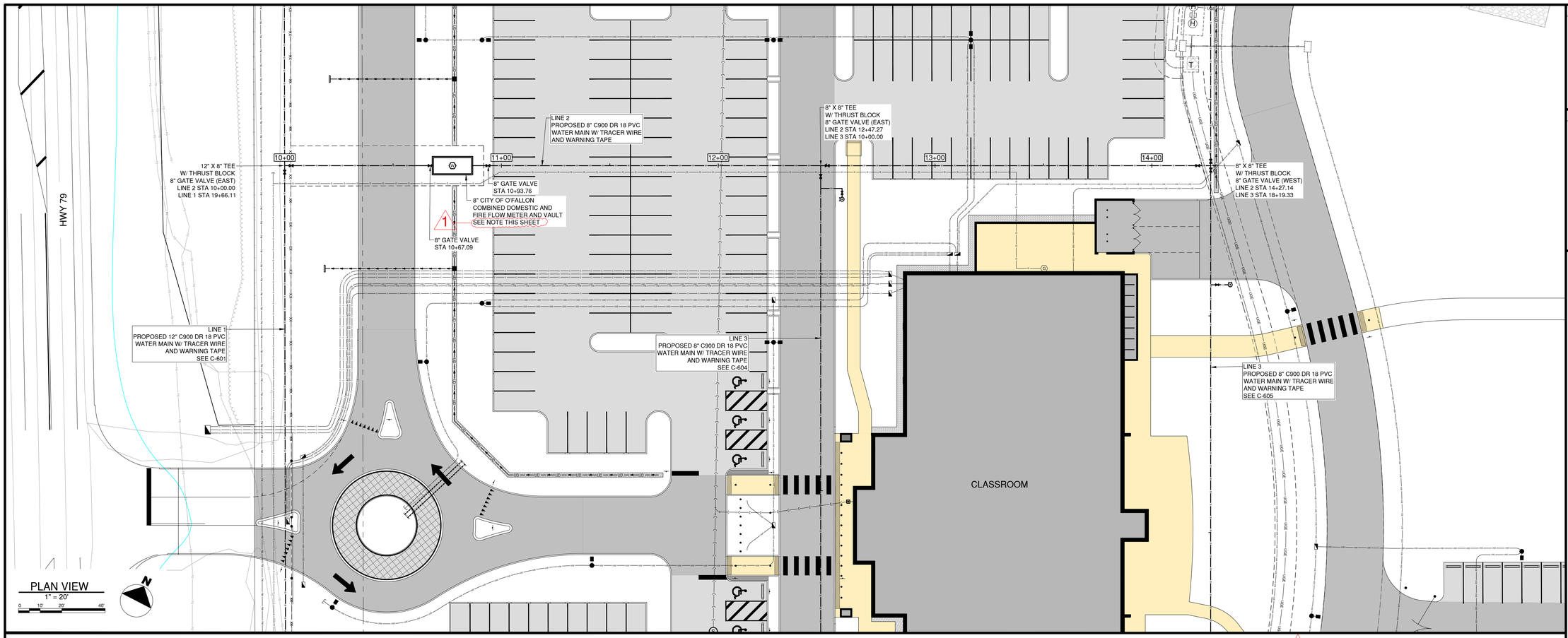
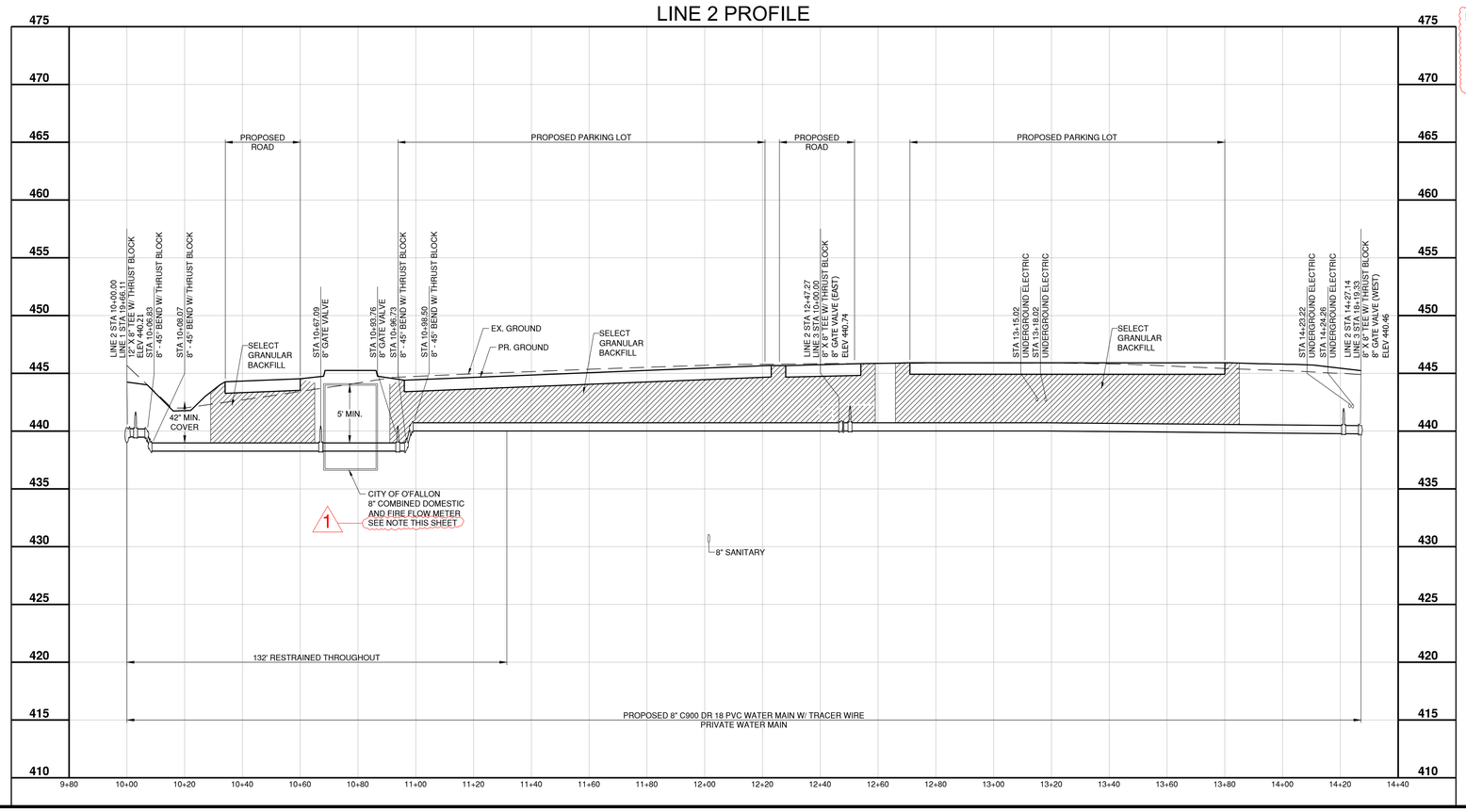


LINE 2 PROFILE



1

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SHEET TITLE

WATER PLAN & PROFILE

C-603

SHEET

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