

C-100_2306_DardenneCreek_NOTES
5/2/24
P:\2306 - ST CHARLES COUNTY - Dardenne Creek Blueway\CAD\Plans
Plotted on: 5/2/24 @ 2:10:17 PM by JENNA STOMBAUGH

GENERAL NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR HAVING A SET OF "APPROVED" ENGINEERING PLANS WITH THE LATEST REVISION DATE ON THE JOB SITE PRIOR TO THE START OF CONSTRUCTION. AN APPROVED SET OF PLANS WILL NEED TO BE ON SITE DURING THE PROJECT AS WELL.
- ANY DEVIATION FROM THESE DESIGN PLANS MAY CAUSE THE WORK TO BE UNACCEPTABLE.
- ANY UNANTICIPATED CONDITIONS ENCOUNTERED DURING THE CONSTRUCTION PROCESS SHALL BE IDENTIFIED IN WRITING TO THE OWNER/ENGINEER IMMEDIATELY.
- THE STREETS SURROUNDING THESE PROJECT SITES AND ANY STREET USED FOR CONSTRUCTION ACCESS THERETO SHALL BE KEPT FREE FROM MUD AND CONSTRUCTION DEBRIS AND SHALL BE CLEANED THROUGHOUT THE DAY. ALL AFFECTED STREETS WILL NEED TO BE "BROOM CLEANED" BY THE END OF EACH DAY.
- ALL TRASH AND DEBRIS ON SITE, EITHER EXISTING OR FROM CONSTRUCTION, MUST BE REMOVED AND PROPERLY DISPOSED OF OFF SITE. NO BURNING OF DEBRIS ON SITE SHALL BE PERMITTED.
- NO EXCAVATION SHALL BE MADE SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PROPERTY OR ANY PUBLIC OR PRIVATE STREET WITHOUT SUPPORTING AND PROTECTING SUCH PUBLIC OR PRIVATE STREET OR PROPERTY FROM SETTling, CRACKING, OR OTHER DAMAGE.
- ALL GRADES SHALL BE WITHIN 0.1 FEET, PLUS OR MINUS, OF THOSE SHOWN ON THE PLAN. ALL STRUCTURES, RETAINING WALLS AND CREST BOULDERS SHALL BE WITHIN 0.1 FEET. GRADING TO BE REVIEWED AND APPROVED BY OWNERS REPRESENTATIVE.
- CONTRACTOR IS RESPONSIBLE FOR MONITORING GRADING OPERATION AND ACCURACY OF "FINAL ROUGH" GRADES. CONTACT ENGINEER OF ANY DISCREPANCIES AFFECTING FINAL GRADING BALANCE.
- SITE CONDITIONS MAY HAVE CHANGED SINCE THE SURVEY WAS PREPARED. CONTRACTOR SHALL VISIT SITE TO FAMILIARIZE THEMSELVES WITH THE CURRENT CONDITIONS.
- HORIZONTAL AND VERTICAL CONTROL WAS ESTABLISHED USING "TRIMBLE" GPS EQUIPMENT, USING THE MDOT CONTINUOUSLY OPERATING MIDWEST RTK NETWORK. HORIZONTAL CONTROL IS REPORTED IN WGS-84 AND VERTICAL CONTROL IS REPORTED IN NAVD-88. FIELD WORK WAS PERFORMED DURING THE MONTH OF OCTOBER, 2023.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALIBRATING GPS GRADING HUBS WITH SURVEYOR HUBS IF BOTH METHODS ARE TO BE USED ON SITE.
- ALL EXISTING TOPOGRAPHY, UNDERGROUND UTILITIES, STRUCTURES AND ASSOCIATED FACILITIES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEREFORE, THEIR LOCATIONS AND ELEVATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER FACILITIES, THE EXISTENCE OF WHICH ARE NOT PRESENTLY KNOWN.
- CONTRACTOR IS TO VERIFY ALL EXISTING STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL AND STARTING WORK.
- BEFORE EXCAVATING OVER OR ADJACENT TO ANY EXISTING UTILITIES, CONTRACTOR SHALL NOTIFY THE OWNER OF SUCH UTILITIES TO ENSURE THAT PROTECTIVE WORK WILL BE COORDINATED AND PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER OF THE UTILITY INVOLVED. IF ANY EXISTING SERVICE LINES, UTILITIES AND UTILITY STRUCTURES WHICH ARE TO REMAIN IN SERVICE ARE UNCOVERED OR ENCOUNTERED DURING THIS OPERATION, THEY SHALL BE SAFEGUARDED, PROTECTED FROM DAMAGE AND SUPPORTED IF NECESSARY.
- CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS REGARDING PRIVATE UTILITIES ON THE PREMESIS, INCLUDING BUT NOT LIMITED TO IRRIGATION SYSTEM AND LIGHTING FACILITIES.
- CONTRACTOR SHALL NOT REMOVE ANY TREE OR FENCE, UNLESS MARKED FOR REMOVAL ON THE PLANS WITHOUT PRIOR APPROVAL.
- ALL APPLICABLE PROVISIONS OF THE CURRENT OCCUPATIONAL SAFETY AND HEALTH ACT ARE HEREIN INCORPORATED BY REFERENCE.
- THE CONTRACTOR, BY USING THESE PLANS FOR THEIR WORK, AGREES TO HOLD HARMLESS INTUITION & LOGIC ENGINEERING, INC. AND ST. CHARLES COUNTY, MISSOURI, THEIR EMPLOYEES AND AGENTS AND THE OWNER WHILE ACTING WITHIN THE SCOPE OF THEIR DUTIES FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, DAMAGES, AND THE COST OF DEFENSE ARISING OUT OF CONTRACTOR(S) PERFORMANCE OF THE WORK DESCRIBED HEREIN, BUT NOT INCLUDING THE SOLE NEGLIGENCE OF THE OWNER, HIS AGENTS, THE ENGINEER, HIS EMPLOYEES AND AGENTS. THE CONTRACTOR'S LIABILITY IS FURTHER DEFINED IN THE COUNTY-CONTRACTOR AGREEMENT.
- ALL "CLEARING AND GRUBBING" SHALL INCLUDE CLEARING OF TREES, STUMPS, BRUSH, FENCES, POSTS, MAILBOXES AND OTHER EXISTING SURFACE FEATURES AS NECESSARY BY THE CONTRACTOR TO PERFORM THE WORK SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL PROVIDE FOR THE SAFE AND ORDERLY PASSAGE OF TRAFFIC AND PEDESTRIANS WHERE HIS/HER OPERATIONS ABUT PUBLIC THOROUGHFARES AND ADJACENT PROPERTY IN ACCORDANCE WITH LOCAL ORDINANCE AND TO THE SATISFACTION OF THE PROJECT MANAGER FOR ST. CHARLES COUNTY.



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- AREAS OUTSIDE THE R.O.W. LINE OR CONSTRUCTION LIMIT LINE IMPACTED BY OPERATIONS OF THE CONTRACTOR SHALL BE RETURNED TO THE STATE IT WAS FOUND PRIOR TO NEW CONSTRUCTION, EXCEPT WHERE NEW WORK IS SHOWN.
- STREET PAVING AND CURBS TO REMAIN SHALL BE PROTECTED FROM DAMAGE AND IF DAMAGED, SHALL BE REPLACED PROMPTLY TO THE SATISFACTION OF THE PROJECT MANAGER FOR ST. CHARLES COUNTY.
- ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.
- ALL EXISTING PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE FULL DEPTH SAWCUT ALONG LIMITS OF PROPOSED REMOVAL BEFORE COMMENCEMENT OF PAVEMENT REMOVAL.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AT THE CONTRACTOR'S EXPENSE, TO ACCOMPLISH THIS WORK.
- A ST. CHARLES COUNTY HIGHWAY DEPARTMENT SPECIAL USE PERMIT IS REQUIRED BEFORE ANY WORK IS ALLOWED TO COMMENCE ON THE RIGHT OF WAY OF PUBLIC ROADS UNDER ST. CHARLES COUNTY CONTROL OR MAINTENANCE. PLEASE CONTACT THE HIGHWAY DEPARTMENT AT (636) 949-7305.
- BUILDING PERMITS FROM ST. CHARLES COUNTY CODE ENFORCEMENT ARE REQUIRED FOR STRUCTURE AND UTILITY INSTALLATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION. BARRICADES AND WARNING SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH ST. LOUIS COUNTY STANDARD SPECIFICATIONS. ALL TRAFFIC CONTROL WORK SHALL BE DONE IN ACCORDANCE WITH MUTCD AND ST. CHARLES COUNTY.
- THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS/HER WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
- THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- THE CONTRACTOR IS NOT TO START WORK UNTIL WRITTEN AUTHORIZATION FROM THE OWNER HAS BEEN RECEIVED.
- SAFETY NOTICE TO CONTRACTOR:**
IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS 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. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER 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.
- NOTICE TO BIDDERS:**
ALL QUESTIONS REGARDING THE PREPARATION OF THE CONTRACTOR'S BID SHALL BE DIRECTED TO THE OWNER. SUBCONTRACTORS MUST DIRECT THEIR QUESTIONS THROUGH THE CONTRACTOR. THE CONSULTING ENGINEER SHALL NOT BE CONTACTED DIRECTLY WITHOUT PRIOR AUTHORIZATION FROM THE OWNER.

GRADING NOTES:

- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE FOR ALL NATURAL AND PAVED AREAS.
- ALL CUT OR FILL SLOPES SHALL BE 3H:1V OR FLATTER UNLESS OTHERWISE NOTED. THE ENGINEER ASSUMES NO LIABILITY FOR SLOPES EXCEEDING THOSE RECOMMENDED IN THE APPLICABLE GEOTECHNICAL REPORT.
- ALL FILLS AND BACKFILLS SHALL CONSIST OF SELECTED EARTH MATERIALS, FREE FROM BROKEN MASONRY, ROCK, FROZEN EARTH, RUBBISH, ORGANIC MATERIAL AND DEBRIS.
- ALL FILL PLACED FOR PROPOSED STORM AND SANITARY SEWER LINES, PAVED AREAS, OR DRAINAGE BERMS SHALL BE COMPACTED TO 90% OF THE MAXIMUM DENSITY AS DETERMINED BY THE AASHTO T 180, MODIFIED PROCTOR COMPACTION TEST OR 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY THE AASHTO T 99 STANDARD PROCTOR COMPACTION TEST. ALL TESTS SHALL BE VERIFIED BY A GEOTECHNICAL ENGINEER CONCURRENT WITH THE GRADING AND BACKFILLING OPERATIONS.
- ALL FILLED PLACES IN PROPOSED AND EXISTING ST. CHARLES COUNTY ROADS (HIGHWAYS) SHALL BE COMPACTED FROM THE BOTTOM OF THE FILL UP TO 90 PERCENT MAXIMUM DENSITY AS DETERMINED BY THE "MODIFIED AASHTO T 180 COMPACTION TEST" (ASTM D-1557). PAVED AREAS IN CUTS SHALL MEET THE SAME COMPACTION REQUIREMENTS. ALL TESTS SHALL BE VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING OPERATIONS.

LEGEND	
	EXISTING SANITARY MANHOLE
	EXISTING STORM MANHOLE
	EXISTING INLET
	EXISTING PIPE
	EXISTING FENCE
	EXISTING FLOWLINE
	EXISTING INDEX CONTOURS
	EXISTING INT. CONTOURS
	EXISTING ROCK LIMITS
	EXISTING PROPERTY LINE
	EXISTING EASEMENTS
	EXISTING LIMITS OF DISTURBANCE
	EXISTING HGL
	EXISTING EGL
	EXISTING PROFILE GRADE
	EXISTING ROOT PRUNE
	EXISTING SILTY FENCE
	EXISTING IN STREAM SILTATION CONTROL
	EXISTING TREE PROTECTION
	EXISTING URBAN FORESTRY LIMIT
	EXISTING TREE LINE
	EXISTING ROCK TOE
	EXISTING VEGETATED ROCK SLOPE
	EXISTING COIR WATTLE
	EXISTING TREE
	EXISTING BUSH
	EXISTING CONTROL POINT
	EXISTING STUMP
	EXISTING TRANS BOX
	EXISTING PCB
	EXISTING CTV
	EXISTING HUB SET
	EXISTING BUILDING
	EXISTING CONCRETE
	EXISTING IRON PIN
	EXISTING SITE BENCHMARK
	EXISTING EDGE OF WATER
	EXISTING SECTION LINE
	EXISTING GIS PROPERTY LINE
	EXISTING FLOODPLAIN/FLOODWAY LIMITS

SITE NOTES:

- ALL CONSTRUCTION MATERIALS AND TECHNIQUES OF INSTALLATION SHALL MEET PERFORMANCE VALUES OF THE MATERIALS SPECIFIED AND COMPLY WITH ALL REGULATIONS AND CODES OF THE AUTHORITY HAVING JURISDICTION AND O.S.H.A. STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THIS PROJECT IS CONSTRUCTED IN ACCORDANCE WITH THESE DOCUMENTS AND IN COMPLIANCE WITH CODES INDICATED HEREIN. THE QUALITY OF WORKMANSHIP AND INSTALLATION OF MATERIALS SPECIFIED BY THE ENGINEER ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER WILL NOT BE HELD RESPONSIBLE FOR ANY SUBSTANDARD OR INSUFFICIENT WORKMANSHIP, MATERIALS, OR SERVICES PROVIDED IN THE EXECUTION OF ANY PHASE OF CONSTRUCTION OF THIS PROJECT.
- ALL MATERIALS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. THE GENERAL CONTRACTOR SHALL ENSURE THAT ALL MANUFACTURER'S WARRANTIES WILL BE HONORED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF EXISTING FIELD CONDITIONS AND PROJECT AND HIS FIELD OF SERVICE SHALL NOT RELIEVE HIM OF ANY RESPONSIBILITY FOR PERFORMING HIS WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED DUE TO THE CONTRACTOR'S FAILURE TO CONVEY THE NECESSARY KNOWLEDGE TO FAMILIARIZE WORKERS AND SUBCONTRACTORS WITH THIS PROJECT.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE AREA CLEAN AND FREE OF DEBRIS AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE SAFETY OF ALL PERSONS ON THE JOB SITE AT ALL TIMES INCLUDING (BUT NOT LIMITED TO) SUBCONTRACTORS, STORE PERSONNEL, VENDORS, DESIGN STAFF PROFESSIONALS AND INSPECTION PERSONNEL.

LEGEND CONTINUED	
	RECORD CALCULATED
	SURVEY POINTS ESTABLISHED
	SURVEY MONUMENTATION FOUND
	CROSS FOUND
	CONCRETE MONUMENT FOUND
	IRON PIPE FOUND
	IRON BAR FOUND
	R.O.W. MONUMENT FOUND
	STONE FOUND
	RAILROAD SPIKE FOUND
	LARGE NAIL (TRAVERSE)
	IRON BAR (TRAVERSE)
	CROSS (TRAVERSE)
	PK NAIL (TRAVERSE)
	INDIVIDUAL OWNERSHIP PARCEL (IOP)
	SUBDIVISION LOT NUMBER
	GUARD RAIL
	UTILITY METER OR VALVE
	SPRINKLER HEAD
	SPRINKLER VALVE
	POWER POLE
	GUY WIRE
	SIGN
	FIRE HYDRANT
	LIGHT STANDARD
	MAIL BOX
	HOUSE VENT
	TRAFFIC SIGNAL
	UTILITY BOX
	LOW SILL LOCATION
	OVERHEAD UTILITIES
	SANITARY SEWER
	BURIED PIPELINE
	BURIED GAS
	BURIED WATER
	BURIED TELEPHONE
	BURIED CABLE TV LINE

ABBREVIATIONS	
AI	AREA INLET
ASPH	ASPHALT
ATG	ADJUST TO GRADE
BF	BASEMENT FLOOR ELEVATION
BFE	BASE FLOOD ELEVATION
B.M.	BENCH MARK
B&B	BALL & BURLAP
BMP	BEST MANAGEMENT PRACTICES
CL	CENTER LINE
CFS	CUBIC FEET PER SECOND
CLCW	COIR LOG CONTOUR WATTLING
CMP	CORRUGATED METAL PIPE
CONC.	CONCRETE
CPP	CORRUGATED PLASTIC PIPE
CR	COMPOSITE REVETMENT
CTV	CABLE TELEVISION
DIP	DUCTILE IRON PIPE
DND	DO NOT DISTURB
E	ELECTRIC
EGL	ENERGY GRADE LINE
EL	ELEVATION
EP	EXPOSED PIPE
ESMT	EASEMENT
EXIST	EXISTING
FL	FLOW LINE
FES	FLARED END SECTION
FF	FIRST FLOOR ELEVATION
FH	FIRE HYDRANT
FO	FIBER OPTIC
FT	FEET
G	GAS
GC	GRADE CONTROL
GCI	GRATED CURB INLET
HGL	HYDRAULIC GRADE LINE
I.D.	INNER DIAMETER
IN	INCHES
IP	IRON PIN
LDB	LEFT DESCENDING BANK
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
OC	ON CENTER
O&M	OPERATION AND MAINTENANCE
OHW	OVERHEAD WIRE
OTP	OPEN TOP PIPE
PL	PROPERTY LINE
PCB	PHONE CABLE BOX
PCR	PARTIAL COMPOSITE REVETMENT
PDE	PERMANENT DRAINAGE EASEMENT
PED	PEDESTAL
PPED	POWER PEDESTAL
PROP	PROPOSED
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
RDB	RIGHT DESCENDING BANK
RR	RAILROAD
SAN	SANITARY
SHLDR	SHOULDER
SMH	SANITARY MANHOLE
SS	STORM SEWER
SSD	STOPPING SIGHT DISTANCE
SSMH	STORM SEWER MANHOLE STATION
STA	STATION
T	TELEPHONE
TB	TELEPHONE BOX
TBR	TO BE REMOVED
TBR&R	TO BE REMOVED AND REPLACED
TBR&RBO	TO BE REMOVED AND REPLACED BY OTHERS
TBR&REL	TO BE REMOVED AND RELOCATED
TPED	TELEPHONE PEDESTAL
TSCL	TEMPORARY SLOPE CONSTRUCTION LIMIT
TVPED	TELEVISION PEDESTAL
TYP	TYPICAL
UIP	USE IN PLACE
UPL	UNDERGROUND PIPELINE
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
W	WATER
YR	YEAR



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**DARDENNE CREEK BLUEWAY
TRAIL AND STREAM
STABILIZATION - SITE 2**
Saint Charles County, Missouri

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Professional Engineer Seal
Timothy Patrick Dean - Engineer
MO# E-2008019536



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NOTES &
ABBREVIATIONS

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