

CITY OF COTTLEVILLE GRADING NOTES:

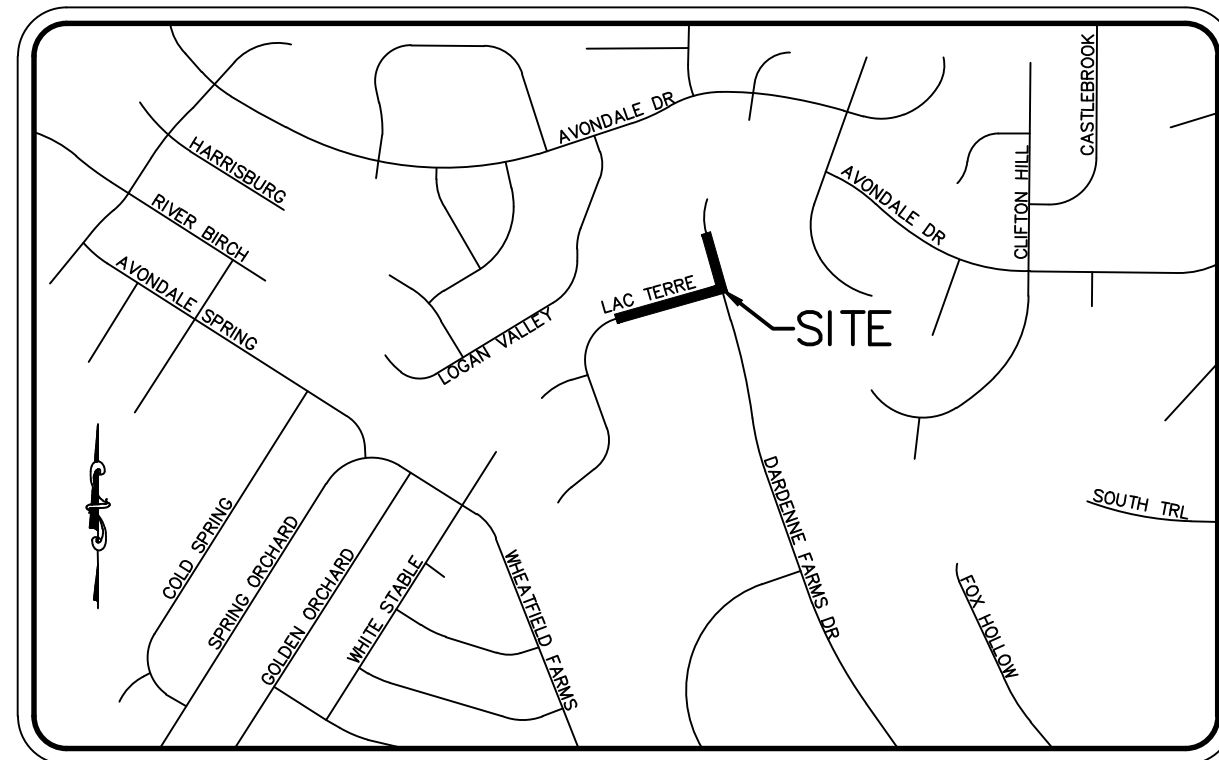
- Sediment and erosion control shall not be limited to the measures shown on the plans. The contractor, with the approval of the County inspector, shall utilize best management practices to prevent sediment from entering adjacent properties, roadways, storm sewers, and drainage ways.
- All filled places under proposed storm and sanitary sewer lines and/or paved areas including trench backfills within and off the road right-of-way shall be compacted to 95% percent of maximum density as determined by the "Standard Proctor Compaction Test" (ASTM D-698). All tests shall be verified by a Soils Engineer concurrent with grading and backfilling operations. See soils specifications.
- All filled places shall be compacted from the bottom of the fill up to 95% percent maximum density as determined by the "Standard Proctor Compaction Test" (ASTM D-698). All tests shall be verified by a Soils Engineer concurrent with grading operations. See soils specifications.
- All trash and debris on-site, either existing or from construction, must be removed and properly disposed of off-site.
- Please notify the City of Cottleville 48 hours prior to the commencement of grading and/or prior to the commencement of construction.
- All excavations, grading or filling shall have a finished grade not to exceed a 3:1 slope (33 %).
- Temporary siltation control measures (structural) shall be maintained until vegetative cover is established at a sufficient density to provide erosion control on the site.
- Upon completion of storm sewers, siltation control shall be provided around all open sewer inlets and shall remain until the disturbed drainage areas have been properly stabilized.
- Where natural vegetation is removed during grading, vegetation shall be re-established in such a density as to prevent erosion.
- All finished grades (areas not to be disturbed by future improvement) in excess of 20% slopes (5:1) shall be mulched and tacked at the rate of 100 pounds per 1,000 square feet when seeded.

GENERAL NOTES:

- Underground utilities have been plotted from available information and therefore locations shall be considered approximate only. The verifications of the location of all underground utilities, either shown or not shown on these plans, shall be the responsibility of the contractor and shall be located prior to any grading or construction improvements.
- All existing site improvements scheduled to remain that are disturbed, damaged or destroyed shall be repaired or replaced to closely match pre construction conditions.
- All fill, including places under proposed storm and sanitary sewer lines and paved areas within and off the road right-of-way shall be compacted to 95% of maximum density as determined by the "Standard Proctor Test" (ASTM D 698). All tests shall be verified by a Soils Engineer concurrent with grading and back filling operations. The compacted fill shall be free of rutting and shall be non-yielding and non-pumping during proof rolling and compaction.
- The contractor shall prevent all storm, surface water, mud and construction debris from entering the existing sanitary sewer system.
- All construction and materials shall conform to the current construction standards of the City of Cottleville.
- City of Cottleville shall be notified at least 48 hours prior to start of construction for coordination and inspection.
- All storm sewers shall meet all specifications and installation requirements of the local governing authority.
- Upon completion of the storm sewers, siltation control shall be provided around all open sewer inlet and shall remain until the disturbed drainage areas have been properly stabilized.
- The contractor is responsible for following the current Unified Development Ordinance Section 412 for the installation of sediment and erosion control devices as well as site inspections and providing all documentation of rainfall inspections as outlined in the ordinance to the County.

A SET OF CONSTRUCTION PLANS FOR
LAC TERRE COURT
STORMWATER IMPROVEMENTS
A TRACT OF LAND ALONG DARDENNE FARMS DRIVE AND LAC TERRE COURT WITHIN
"THE ESTATES AT DARDENNE RIDGE PLAT ONE"
PLAT BOOK 37, PAGE 295, IN SECTION 9
TOWNSHIP 46 NORTH, RANGE 3 EAST
CITY OF COTTLEVILLE,
ST. CHARLES COUNTY, MISSOURI

BID SET
MAY 5, 2022



LOCATION MAP
NOT TO SCALE

CONTROL DATUM NOTES

PROJECT ELEVATIONS UTILIZE THE NAVD 88 VERTICAL DATUM AND WERE GENERATED BY GPS OBSERVATIONS USING A CELLULAR EQUIPPED TRIMBLE R8 GNSS ROVER AND TRIMBLE TSC3 DATA COLLECTOR AND ARE BASED ON THE MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION GLOBAL NAVIGATION SATELLITE REAL TIME NETWORK FOR CONTINUOUS OPERATING REFERENCE STATIONS.

REFERENCE BENCHMARK: THE OBSERVED VERTICAL CHECK STATION UTILIZED IS LISTED ON WWW.NGA.NOA.GOV AS DESIGNATION "SC-08" WITH A PID OF AA8599 AND A PUBLISHED ELEVATION OF 557.00 (NAVD88).

DESCRIPTION:

DESCRIBED BY MO DEPT OF NAT RES 1991 STATION, AZIMUTH MARKS AND REFERENCE TIES THE STATION IS LOCATED ABOUT 2 MILES (3.2 KM) SSW OF I-70 EXIT 220 (MISSOURI HWY 79 AND SALT LICK RD.) ON THE EAST SIDE OF BIRDIE HILLS RD 180 FT NORTH OF ITS INTERSECTION WITH OAKRIDGE WEST DR. (WEST) AND OHMES RD (EAST) AND JUST SOUTH OF THE ENTRANCE DRIVE TO THE PARKING LOT FOR THE CHURCH ON THE ROCK. IT IS 13.8 FT (4.2 M) NNW OF THE CENTER OF A WATER VALVE BOX, 8.5 FT (2.6 M) SW OF THE SW CORNER OF THE WEST POST OF AN (ENTRANCE) SIGN, 2.75 FT (0.84 M) EAST OF A CUT (X) ON THE EAST CONCRETE CURB OF BIRDIE HILLS RD AND 2 FT (0.6 M) SOUTH OF A CARSONITE WITNESS POST THE AZIMUTH MARK IS ABOUT 0.35 MILES (0.56 KM) NORTH IN THE NE ANGLE OF THE INTERSECTION OF JILL-MARIE COURT WITH BIRDIE HILLS ROAD. IT IS 39.0 FT (11.9 M) NORTHERLY FROM THE CENTER LINE OF JILL-MARIE AND 19.0 FT (5.8 M) EAST OF THE CENTER LINE OF BIRDIE HILLS. IT IS 23.2 FT (7.1 M) NW OF THE CENTER OF AN H VALVE BOX, 22.8 MWN OF THE CENTER OF A FIRE HYDRANT, 14.8 FT (4.5 M) NW OF THE CENTER OF A 2 IN STEEL POST FOR A STOP AND STREET SIGN, 2.7 FT (0.8 M) SSW OF AN ALUMINUM NAIL IN A CORNER FENCE POST AND 1.5 FT (0.5 M) EAST OF THE BACK OF THE EAST CURB OF BIRDIE HILLS. STATION AND AZIMUTH MARK TO REACH TO REACH THE AZIMUTH MARK FROM THE CENTER OF I-70 EXIT 220 GO SOUTHERLY ON SALT LICK RD FOR 1.15 MILES (1.85 KM) TO INTERSECTION WITH MEXICO ROAD WHERE SALT LICK ENDS AND ROAD CONTINUES SOUTH AS BIRDIE HILLS RD. CONTINUE SOUTH ON BIRDIE HILLS FOR 0.5 MILES (0.8 KM) TO JILL-MARIE COURT AND AZIMUTH MARK ON LEFT (EAST SIDE IN THE NE ANGLE OF THE INTERSECTION AS DESCRIBED). TO REACH THE STATION FROM THE AZIMUTH MARK CONTINUE SOUTHERLY ON BIRDIE HILLS FOR 0.35 MILES (0.56 KM) TO THE ENTRANCE TO THE PARKING LOT OF THE CHURCH ON THE ROCK ON THE LEFT (EAST) AND THE STATION AS DESCRIBED.

SITE BENCHMARK (NAVD 88)- CUT "X" IN BOX ON CONCRETE (ELEVATION=517.00) AND IS LOCATED AS SHOWN HEREON.



Mark E. Collins
Surveyor
MO PLS 2008000173

INDEX OF SHEETS

| SHEET NO. | DESCRIPTION |
|-----------|-------------------|
| 1 | COVER SHEET |
| 2 | PLAN |
| 3 | PROFILE |
| 4 | DRAINAGE AREA MAP |

| ITEM NO. | ITEM | UNIT | QUANTITY |
|----------|---|------|----------|
| 1 | MOBILIZATION | L.S. | 1 |
| 2 | CLEARING AND GRUBBING | L.S. | 1 |
| 3 | SOD | S.Y. | 2183 |
| 4 | EARTHWORK | L.S. | 1 |
| 5 | REMOVAL OF EXISTING IMPROVEMENTS | L.S. | 1 |
| 6 | CONCRETE DRIVEWAY REPLACEMENT | S.Y. | 85 |
| 7 | EXPOSED AGGREGATE CONCRETE DRIVEWAY REPLACEMENT | S.Y. | 18 |
| 8 | SAW CUT | L.F. | 201 |
| 9 | 15" x 12" PRECAST TRENCH DRAIN W/ FRAME & GRATE | L.F. | 36 |
| 10 | 12" x 12" PRECAST TRENCH DRAIN W/ FRAME & GRATE | L.F. | 42 |
| 11 | 6" x 12" PRECAST TRENCH DRAIN W/ FRAME & GRATE | L.F. | 60 |
| 12 | EROSION CONTROL | L.S. | 1 |
| 13 | CONTRACTOR SURVEYING AND STAKING | L.S. | 1 |
| 14 | CONSTRUCTION AS-BUILT PLANS | L.S. | 1 |

UTILITY NOTE

THE UNDERGROUND UTILITIES SHOWN HEREON ARE TAKEN FROM UTILITY LOCATIONS AS CONTRACTED THROUGH DIGRITE AND MARKED IN THE FIELD BY VARIOUS UNDERGROUND UTILITY LOCATORS, INCLUDING USIC.

DIGRITE TICKET NUMBERS: #220281518, #220281519, AND #220281520 (02/01/2022).

AMEREN MISSOURI ELECTRIC: "MARKED" PER EMAIL MESSAGE FROM TICKETCHECK.

CTLCL-CENTURYLINK: "MARKED" PER EMAIL MESSAGE FROM TICKETCHECK.

ST. CHARLES COUNTY PWS# 2: "MARKED" PER EMAIL MESSAGE FROM TICKETCHECK.

CHARTER COMMUNICATIONS: "MARKED" PER EMAIL MESSAGE FROM TICKETCHECK.

SPIRE MO EAST: "MARKED" PER EMAIL MESSAGE FROM TICKETCHECK.

MISSOURI AMERICAN WATER COMPANY: "MARKED" PER EMAIL MESSAGE FROM TICKETCHECK.

ALL UTILITY MARKS FOUND IN THE FIELD WERE LOCATED BY THE SURVEYOR AND ARE SHOWN HEREON. THE SURVEYOR CLAIMS NO RESPONSIBILITY AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY MARKS.

UTILITIES ARE ALSO SHOWN HEREON AS SCALED FROM MAPS OBTAINED FROM THE CITY OF ST. CHARLES AND DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NONEXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE OR OTHER UTILITIES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN, AND 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.

SITE IS SUBJECT TO PRIVATE UTILITY INSTALLATIONS. PRIVATE UTILITY INSTALLATIONS DO NOT APPEAR ON UTILITY BASE MAPS, NOR DO UTILITY LOCATORS MARK PRIVATE UTILITIES.

UTILITIES:

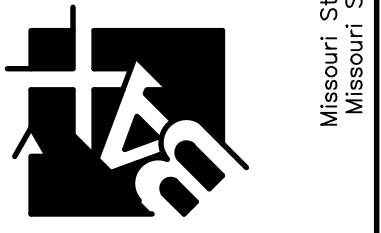
- ELECTRIC:** AMEREN UE
200 NORTH CALLAHAN RD.
WENTZVILLE, MO 63385
CONTACT: RANDY HUNT
(636) 639-8306
rhunt@ameren.com
- TELEPHONE:** CENTURYLINK
1151 CENTURYLINK DRIVE
WENTZVILLE, MO 63385
(636) 445-7040
CONTACT: JUSTIN MANSFIELD
justin.m.mansfield@centurylink.com
- GAS:** SPIRE GAS
6400 GRAHAM RD.
BERKELY, MO 63134
(816) 472-3489
CONTACT: RICHARD FROCK
richard.frock@spireenergy.com
- WATER:** MISSOURI AMERICAN WATER
1290 MOTHERHEAD RD
COTTLEVILLE, MO 63304
- WATER:** PUBLIC WATER SUPPLY DISTRICT NO. 2
OF ST. CHARLES COUNTY
100 WATER DR
O'FALLON, MO 63368
(636) 561-3737
- CABLE:** CHARTER COMMUNICATIONS
941 CHARTER COMMONS
TOWN & COUNTRY, MO 63017
(636) 262-0395
CONTACT: JOHN DANOWSKI
John.danowski@chartercom.com
- SANITARY:** DUCKETT CREEK SANITARY DISTRICT
3550 HIGHWAY K
O'FALLON, MO 63368
(636) 441-1244
CONTACT: MIKE MERKT
Merkt@duckettcreek.com



CALL BEFORE YOU DIG!
1-800-DIG-RITE
*FIBER OPTICS MAY BE PRESENT

| LEGEND | |
|--------|--------------------------|
| | GRATED INLET |
| | SANITARY SEWER MANHOLE |
| | IRRIGATION CONTROL VALVE |
| | CABLE TV BOX |
| | ELECTRIC TRANSFORMER |
| | TELEPHONE CABLE PEDESTAL |
| | WATER METER |
| | GAS VALVE |
| | WATER VALVE |
| | FIRE HYDRANT |
| | YARD DRAIN |
| | CLEANOUT |
| | BOLLARD |
| | WATER FAUCET |
| | UTILITY BOX |
| | TREE |
| | BUSH |
| | TREE STUMP |
| | BENCHMARK |
| | L.A. LANDSCAPED AREA |
| | CONCRETE |
| | LIGHT STANDARD |
| | MAILBOX |

BAX ENGINEERING CO., INC.
221 Point West Blvd.
St. Charles, MO 63301
Phone: 636-928-5552
Fax: 636-928-1718

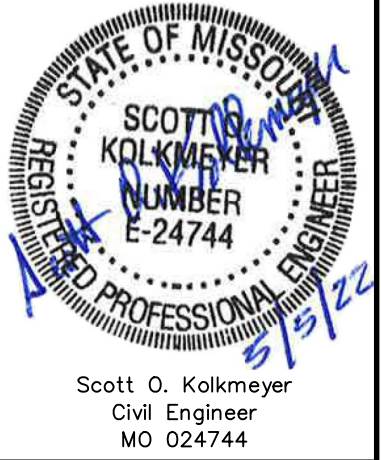


PROJECT NAME:
**LAC TERRE COURT
STORMWATER IMPROVEMENTS**
CITY OF COTTLEVILLE
5490 FIFTH STREET
COTTLEVILLE, MO. 63304

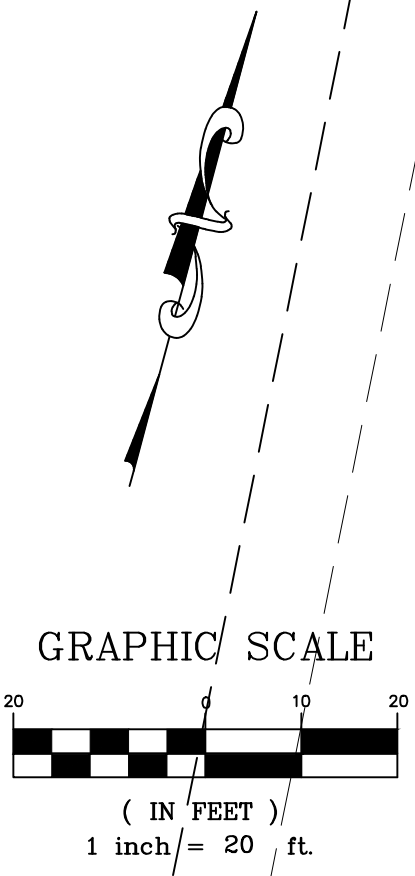
PREPARED FOR:
CITY OF COTTLEVILLE
5490 FIFTH STREET
COTTLEVILLE, MO. 63304

| REVISIONS | |
|-----------|---------------------|
| DATE | DESCRIPTION |
| 04/20/22 | PRE-FINAL SUBMITTAL |
| 05/05/22 | BID SET |

DISCLAIMER OF RESPONSIBILITY
I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey other than these documents authenticated by my seal.



COVER
SHEET
1 OF 04



LOT 1
THE ESTATES AT DARDENNE RIDGE PLAT TWO
 P.B. 37, PG. 295
PROPERTY N/F
MARK D. PEAVLER AND KAREN L. MILLATTI LIFE ESTATE
 8895/1080
ADDRESS: 85 LAC TERRE COURT
LOCATOR# 2-0069-8667-00-0001.0000000

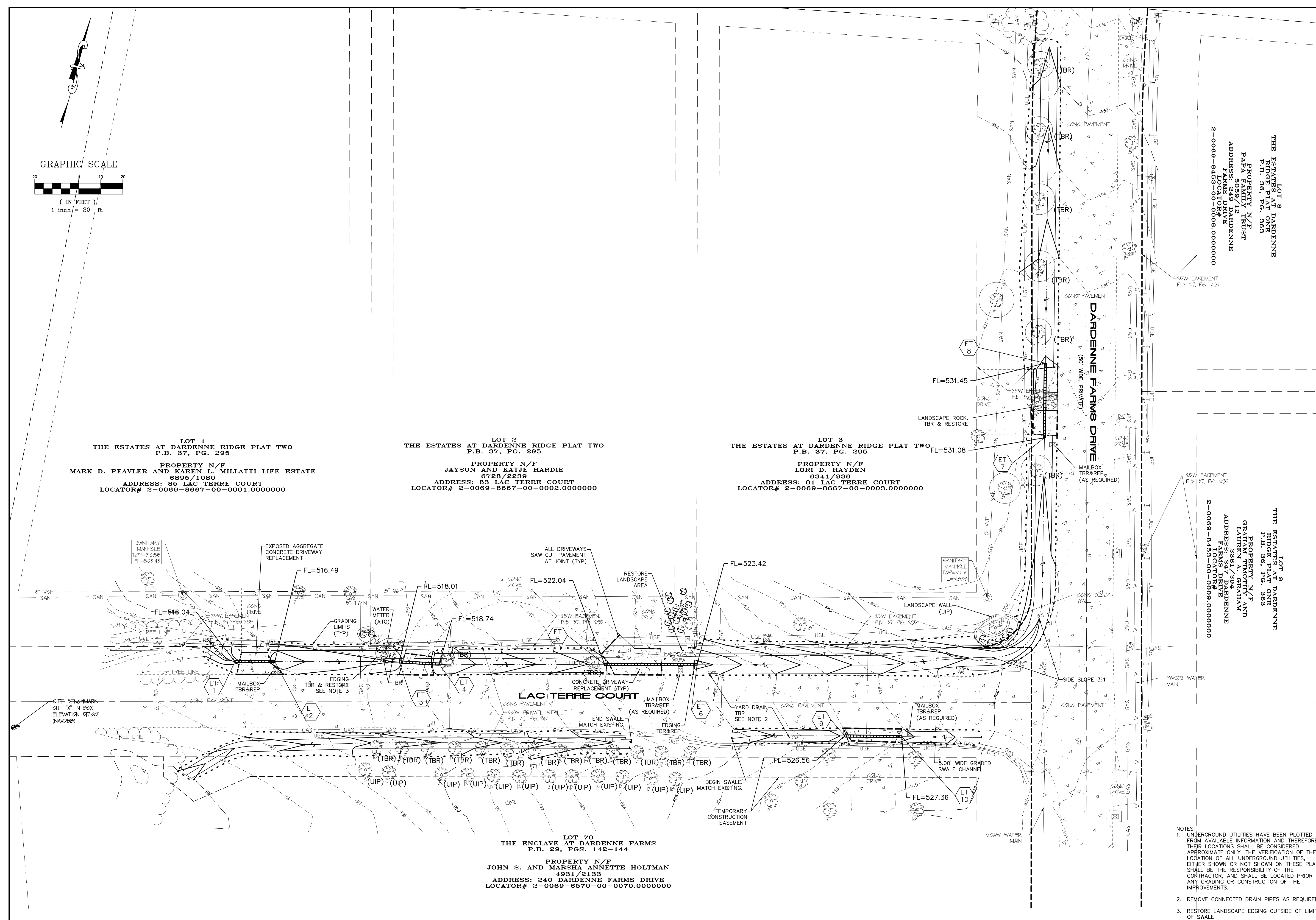
LOT 2
THE ESTATES AT DARDENNE RIDGE PLAT TWO
 P.B. 37, PG. 295
PROPERTY N/F
JAYSON AND KATJE HARDIE
 8728/2239
ADDRESS: 83 LAC TERRE COURT
LOCATOR# 2-0069-8667-00-0002.0000000

LOT 3
THE ESTATES AT DARDENNE RIDGE PLAT TWO
 P.B. 37, PG. 295
PROPERTY N/F
LORI D. HAYDEN
 8341/936
ADDRESS: 81 LAC TERRE COURT
LOCATOR# 2-0069-8667-00-0003.0000000

LOT 8
THE ESTATES AT DARDENNE RIDGE PLAT ONE
 P.B. 36, PG. 383
PROPERTY N/F
PAPA FAMILY TRUST
 5059/12 DARDENNE
ADDRESS: FARMS DRIVE
LOCATOR# 2-0069-8453-00-0008.0000000

LOT 9
THE ESTATES AT DARDENNE RIDGE PLAT ONE
 P.B. 36, PG. 383
PROPERTY N/F
GRAHAM TIMOTHY AND LAUREN A. GRAHAM
ADDRESS: 247 DARDENNE FARMS DRIVE
LOCATOR# 2-0069-8453-00-0009.0000000

LOT 70
THE ENCLAVE AT DARDENNE FARMS
 P.B. 29, PGS. 142-144
PROPERTY N/F
JOHN S. AND MARSHA ANNETTE HOLTMAN
 4931/2133
ADDRESS: 240 DARDENNE FARMS DRIVE
LOCATOR# 2-0069-6670-00-0070.0000000



BAX ENGINEERING CO., INC.
 221 Point West Blvd.
 St. Charles, MO 63301
 Phone: 636-928-5552
 Fax: 636-928-1718

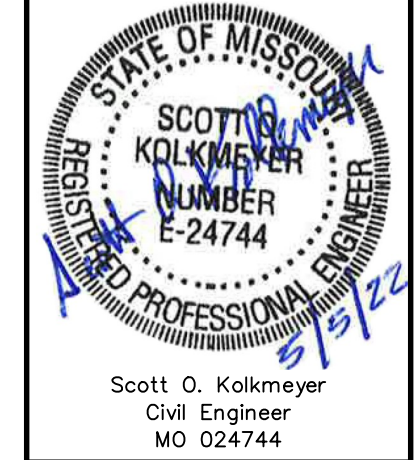
PROJECT NAME:
LAC TERRE COURT
STORMWATER IMPROVEMENTS
CITY OF COTTLEVILLE
 5490 FIFTH STREET
 COTTLEVILLE, MO, 63304

PREPARED FOR:
CITY OF COTTLEVILLE
 5490 FIFTH STREET
 COTTLEVILLE, MO, 63304

REVISIONS

| DATE | DESCRIPTION |
|----------|---------------------|
| 04/20/22 | PRE-FINAL SUBMITTAL |
| 05/05/22 | BID SET |

DISCLAIMER OF RESPONSIBILITY
 I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey other than those authenticated by my seal.

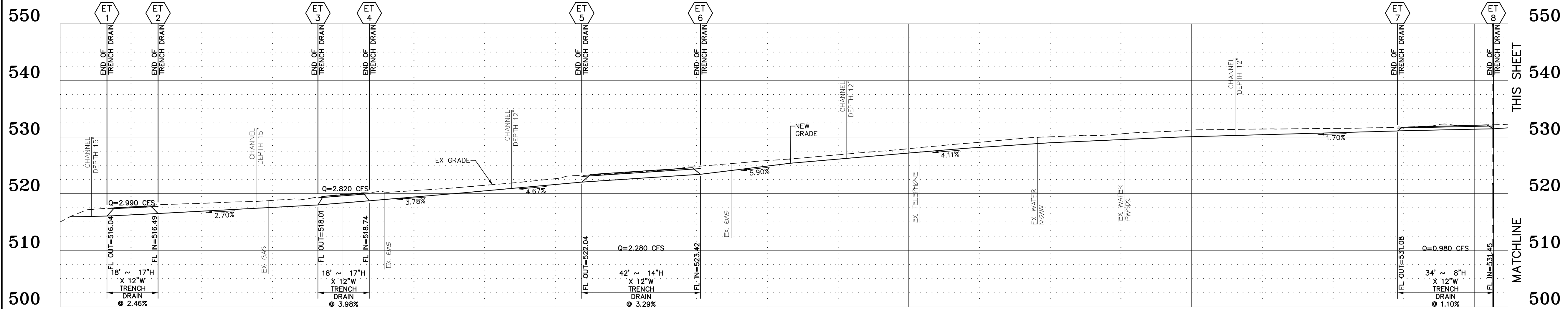


PLAN
SHEET
2 OF 04

- NOTES:**
- UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS SHALL BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE LOCATED PRIOR TO ANY GRADING OR CONSTRUCTION OF THE IMPROVEMENTS.
 - REMOVE CONNECTED DRAIN PIPES AS REQUIRED.
 - RESTORE LANDSCAPE EDGING OUTSIDE OF LIMITS OF SWALE.

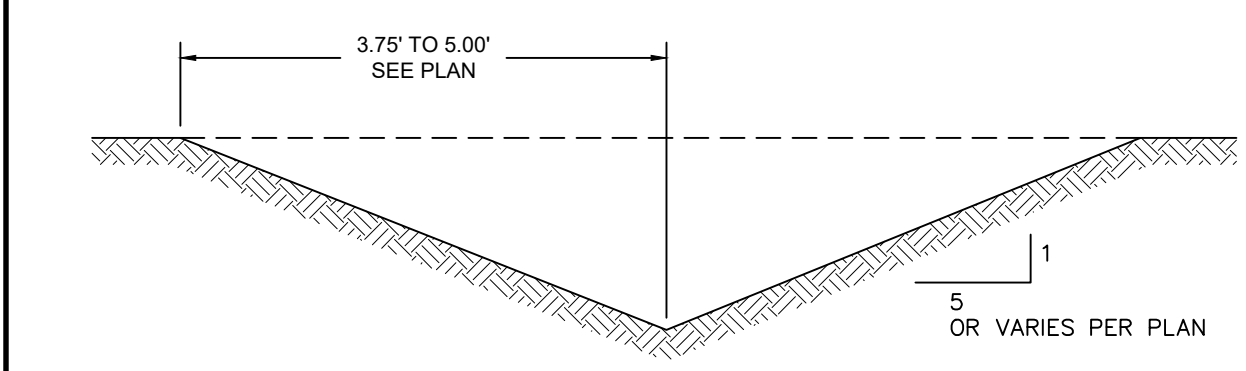
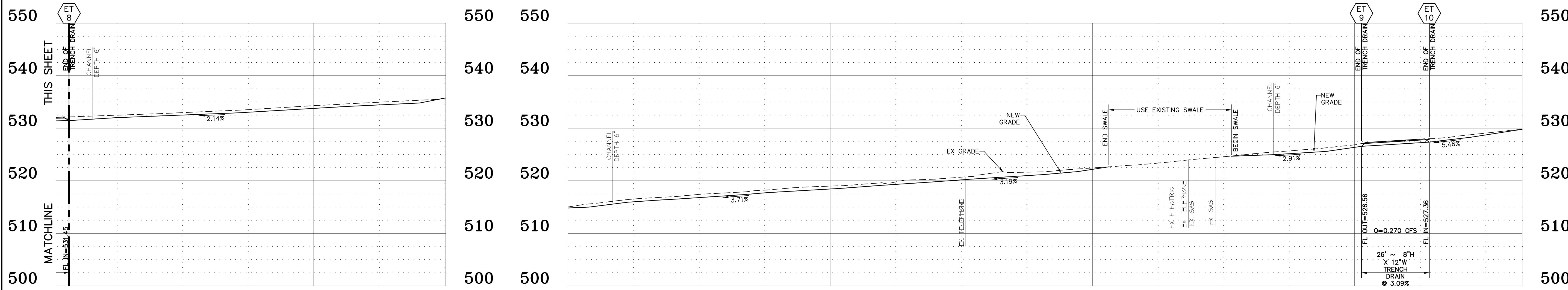
Missouri State Certificate of Authority, Engineering #089845
 Missouri State Certificate of Authority, Surveying #000144
 PROJECT NO.: 21-18501
 DATE: 02/25/2022

PROFILE - NORTH SIDE OF LAC TERRE COURT

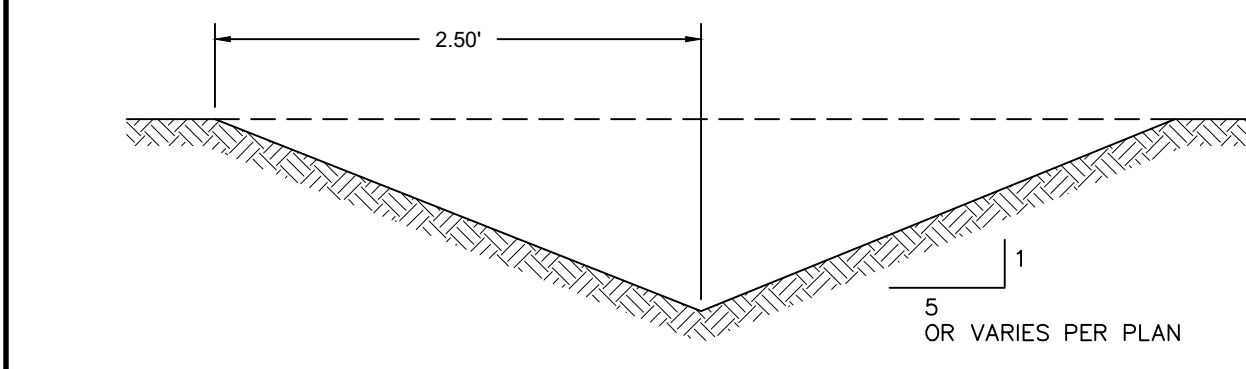


NOTES:
 1. TOP OF TRENCH DRAIN GRATE SHALL BE FLUSH WITH DRIVEWAY PAVEMENT.
 2. H = FLOWLINE TO TOP OF GRATE

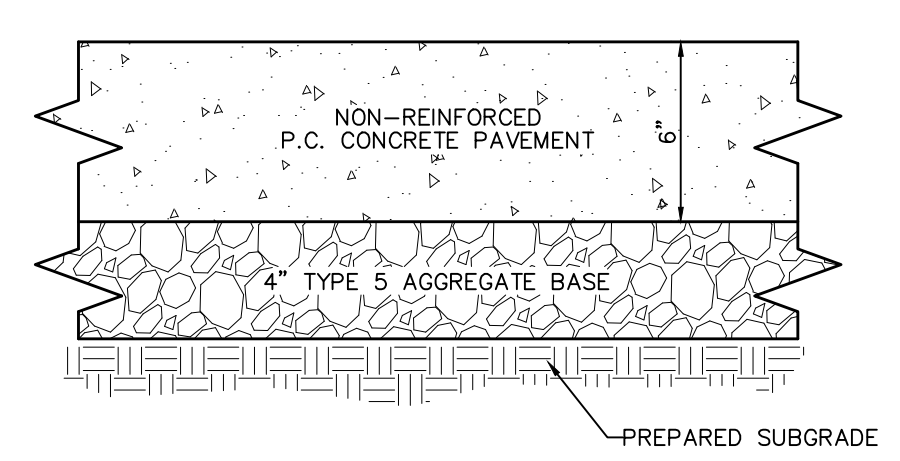
PROFILE - SOUTH SIDE OF LAC TERRE COURT



GRADED SWALE CHANNEL TYPICAL SECTION - NORTH SIDE OF LAC TERRE COURT
N.T.S.

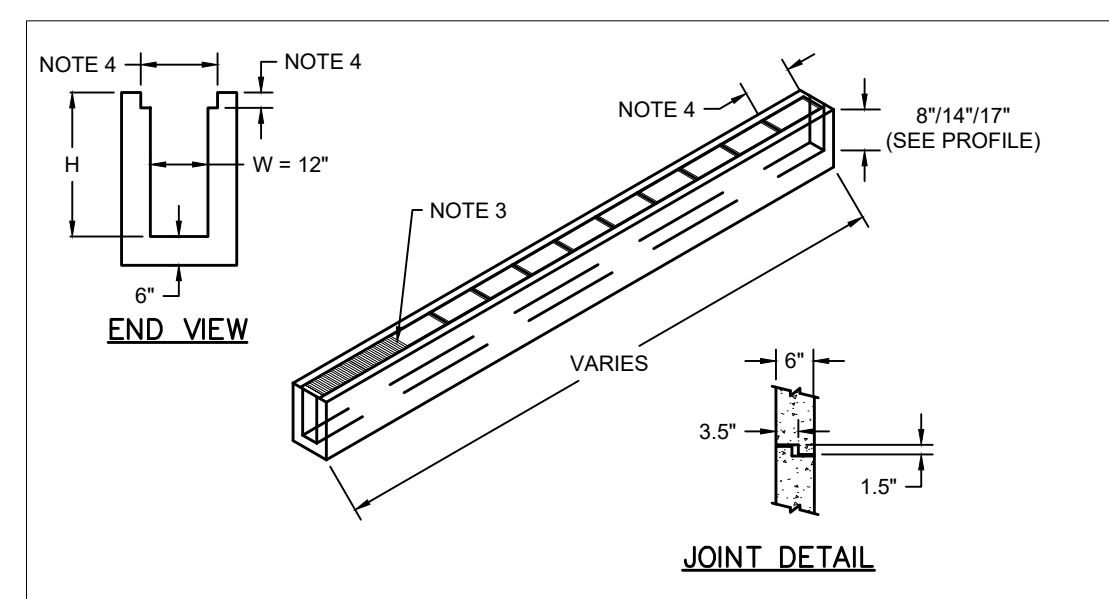


GRADED SWALE CHANNEL TYPICAL SECTION - SOUTH SIDE OF LAC TERRE COURT
N.T.S.



CONCRETE DRIVEWAY DETAIL
N.T.S.

NOTE:
 1. EXPOSED AGGREGATE CONCRETE SHALL BE USED ON LOT 1 (85 LAC TERRE COURT). AGGREGATE USED IN EXPOSED AGGREGATE CONCRETE MIX SHALL BE COMPARABLE TO EXISTING EXPOSED AGGREGATE IN SIZE, TEXTURE, AND COLOR.



PRECAST TRENCH DRAIN
N.T.S.

NOTES:
 1. MINIMUM STRENGTH OF CONCRETE SHALL BE 4,000 PSI AFTER 28 DAYS.
 2. THE JOINT SHALL BE SEALED W/ SEWER TIGHT OR APPROVED MASTIC SEALANT.
 3. NEENAH R-4641-C FRAME AND TYPE C GRATE OR APPROVED EQUAL SHALL BE USED.
 4. DIMENSIONS FOR FRAME PER MANUFACTURER'S SPECIFICATIONS.

| Dimensions in inches | A | B | G | H | Type |
|--------------------------|-------|---|---------|---|------|
| Rectangular - Heavy Duty | 17x24 | 2 | 1x6 1/2 | 1 | C |

NOTE:
 1. ANY APPROVED EQUAL SHALL MEET REQUIREMENTS FOR TRAFFIC LOADS AND BICYCLE SAFETY

NOTE: UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS SHALL BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE LOCATED PRIOR TO ANY GRADING OR CONSTRUCTION OF THE IMPROVEMENTS.

BAX ENGINEERING CO., INC.
 221 Point West Blvd.
 St. Charles, MO 63301
 Phone: 636-928-5552
 Fax: 636-928-1718

PROJECT NAME:
LAC TERRE COURT STORMWATER IMPROVEMENTS
 CITY OF COTTLEVILLE
 5490 FIFTH STREET
 COTTLEVILLE, MO, 63304

PREPARED FOR:

| DATE | DESCRIPTION |
|----------|---------------------|
| 04/20/22 | PRE-FINAL SUBMITTAL |
| 05/05/22 | BID SET |

REVISIONS

| DATE | DESCRIPTION |
|----------|---------------------|
| 04/20/22 | PRE-FINAL SUBMITTAL |
| 05/05/22 | BID SET |

DISCLAIMER OF RESPONSIBILITY
 I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey other than those authenticated by my seal.



BAX ENGINEERING CO., INC.
 221 Point West Blvd.
 St. Charles, MO 63301
 Phone: 636-928-5552
 Fax: 636-928-1718

Missouri State Certificate of Authority: Engineering #089845
 Missouri State Certificate of Authority: Surveying #000144

PROJECT NAME:
 LAC TERRE COURT
 STORMWATER IMPROVEMENTS

PREPARED FOR:
 CITY OF COTTLEVILLE
 5490 FIFTH STREET
 COTTLEVILLE, MO, 63304

PROJECT NO.: 21-18501

DATE: 02/25/2022

DATE: 02/25/2022

REVISIONS

| DATE | DESCRIPTION |
|----------|---------------------|
| 04/20/22 | PRE-FINAL SUBMITTAL |
| 05/05/22 | BID SET |

DISCLAIMER OF RESPONSIBILITY
 I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey other than those authenticated by my seal.

STATE OF MISSOURI
 REGISTERED PROFESSIONAL ENGINEER
 SCOTT D. KOLKMEYER
 NUMBER E-24744
 5/12/22

Scott D. Kolkmeier
 Civil Engineer
 MO 024744

DRAINAGE AREA MAP
 SHEET
 4 OF 04