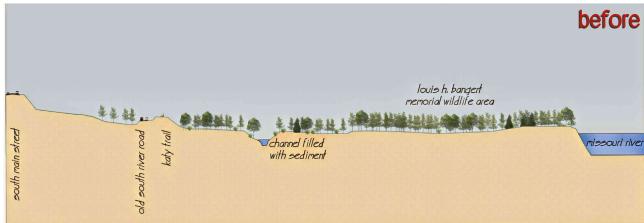


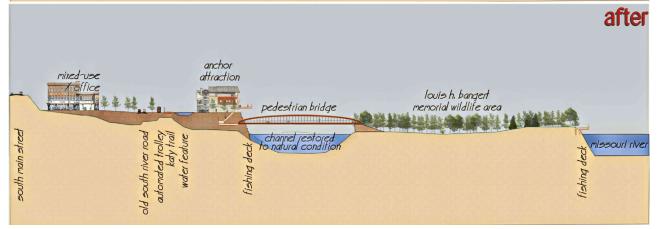
## Recreation | Access | Habitat | Water Quality | Economic Development









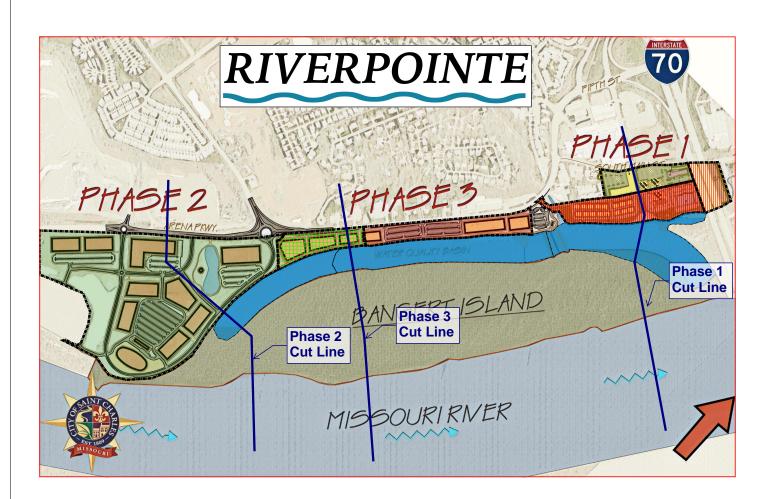




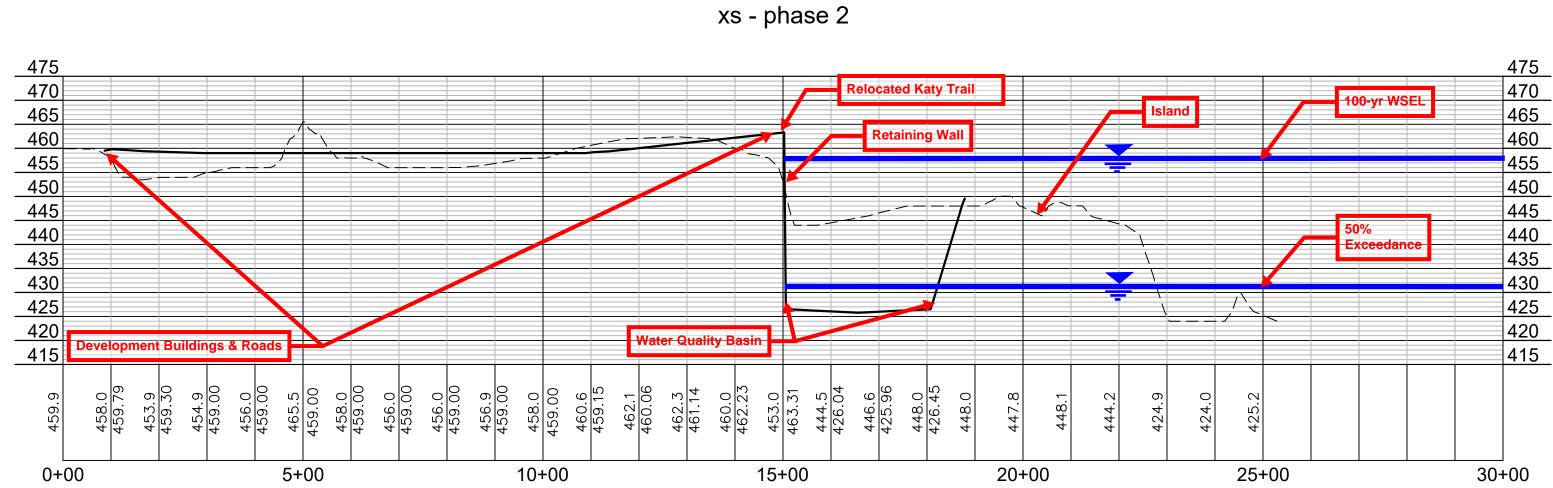


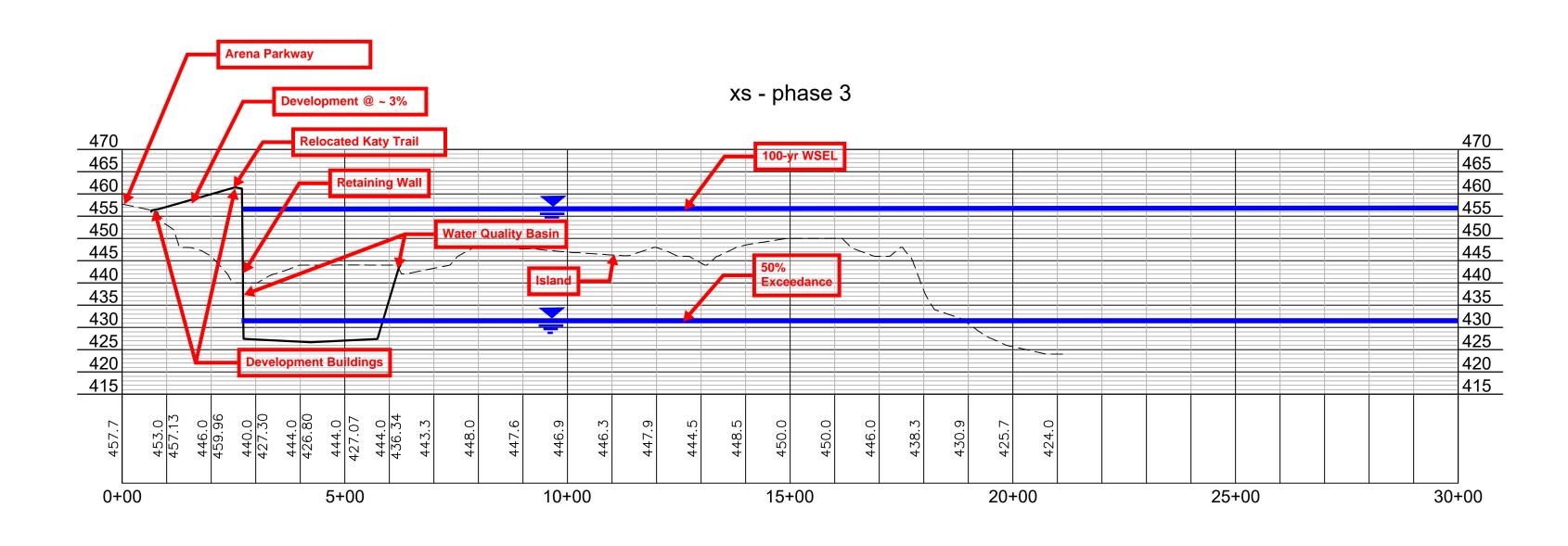
**Riverpointe Property Status Riverpoint Properties Property Status** To be Aquired In Negotiations Under Contract City Owned NOT TO SCALE County Owned Project Area **DATE: 4/8/2020** Not Required

**Riverpointe Property Use Type** Use Type Office Entertainment / Hotel REGULATING PLAN PERMITTED US E MAP Mixed Use Parks / Recreation Residential Government / Not-For-Profit Future Mixed- Use Development NOT TO SCALE **DATE: 5/13/2020**  Note: All development elevations to be protected to above 500-year flood levels except where tying to existing infrastructure (i.e. Arena Parkway)













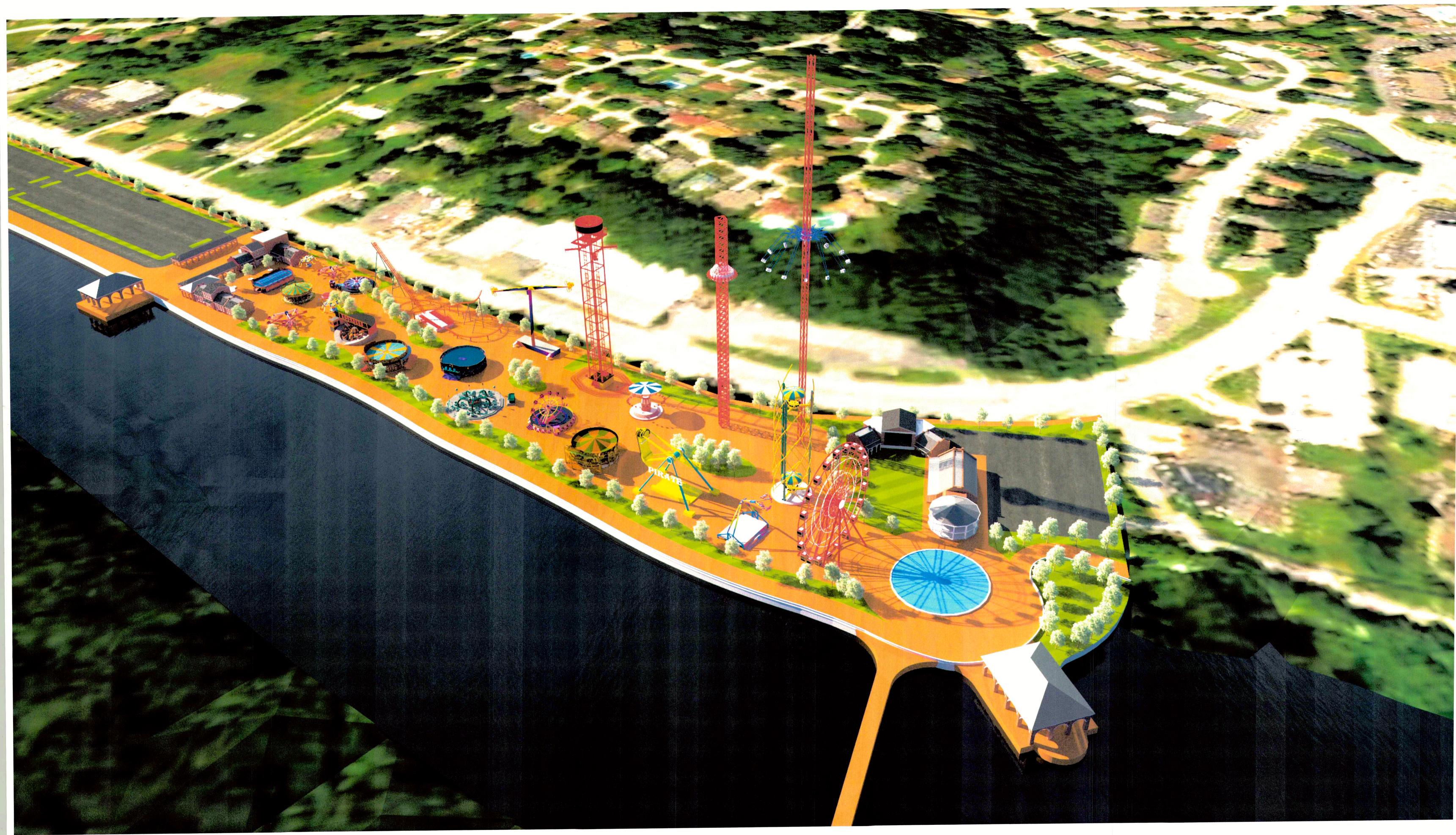












SKYVIEW PHASE 3A CONCEPT

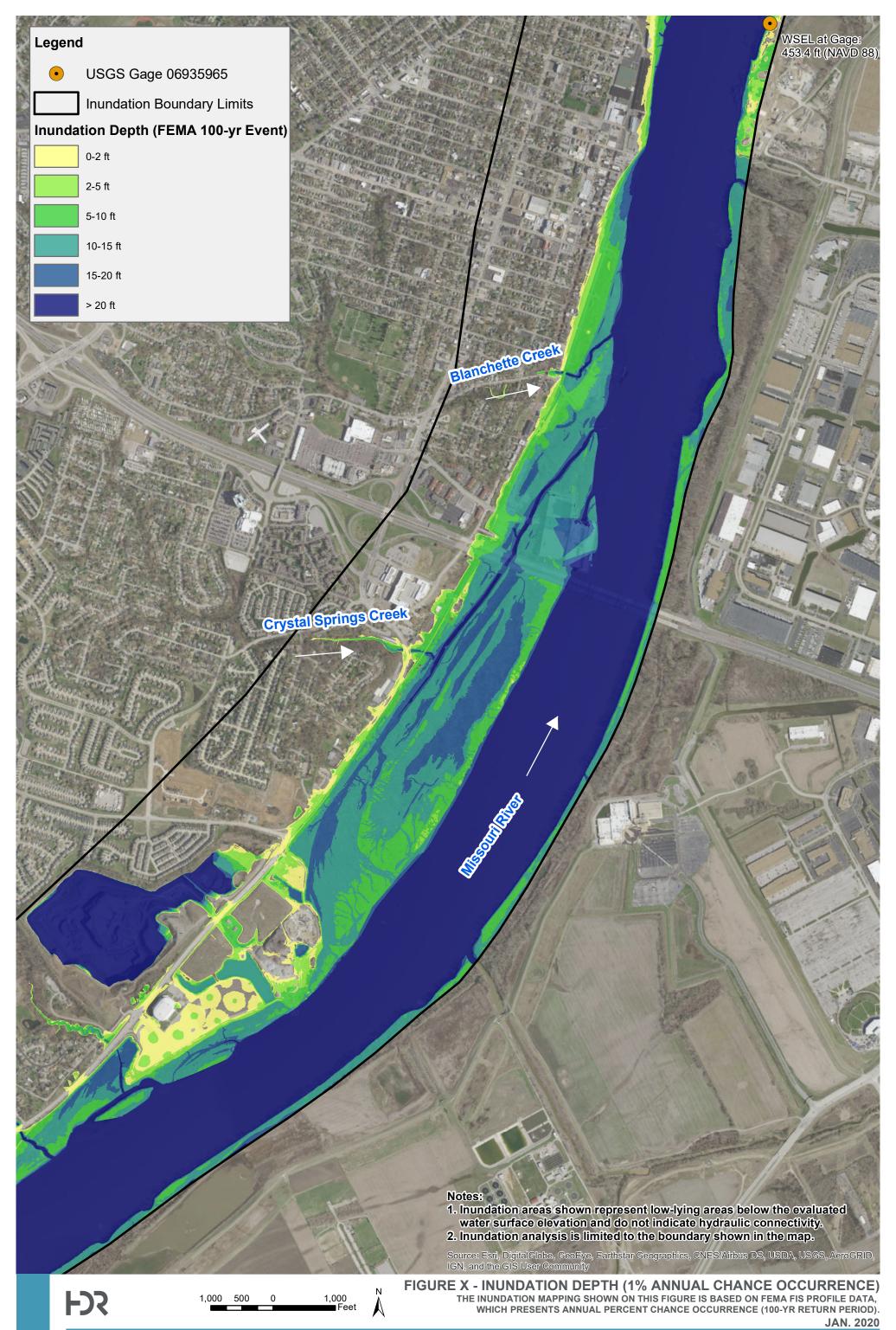


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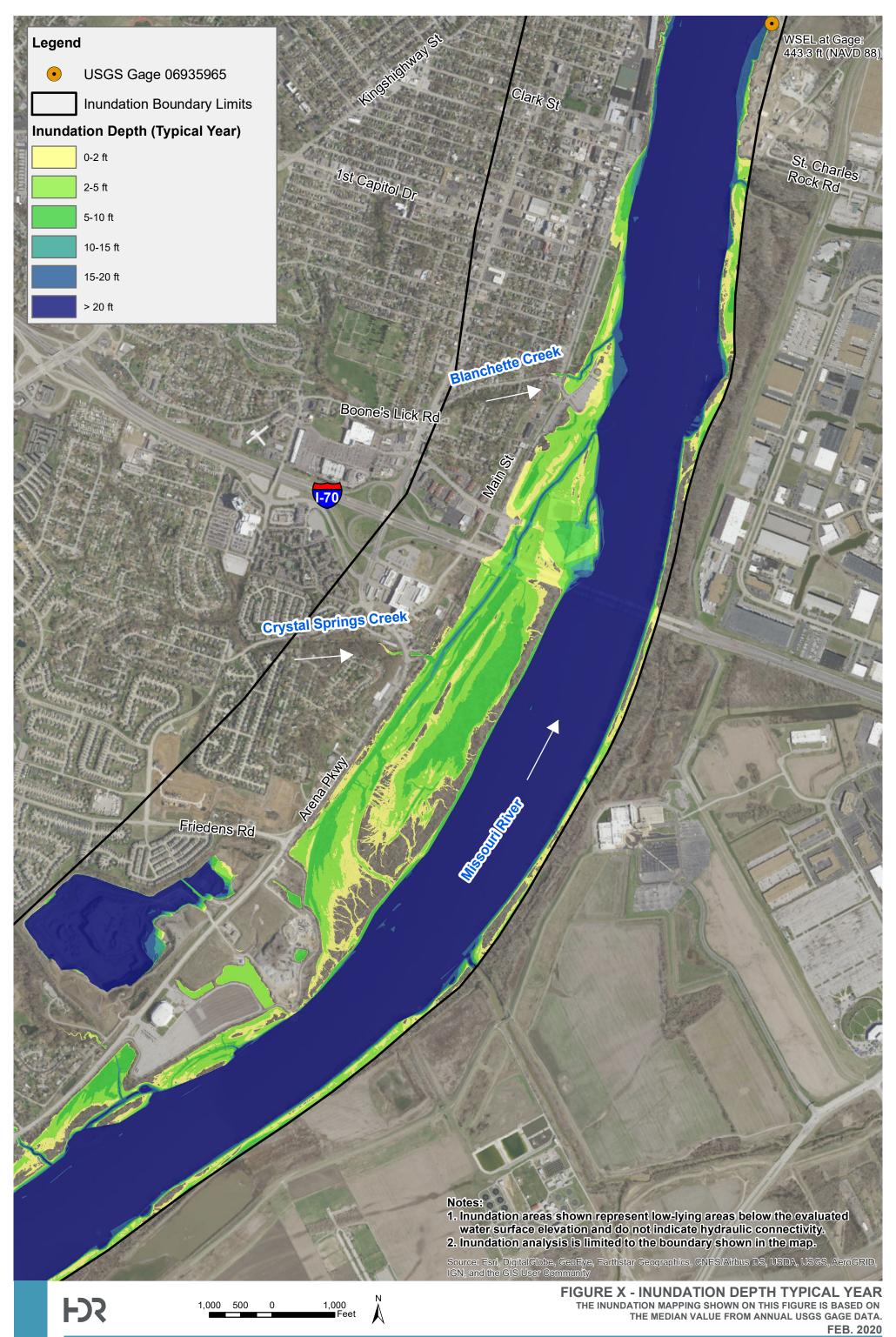


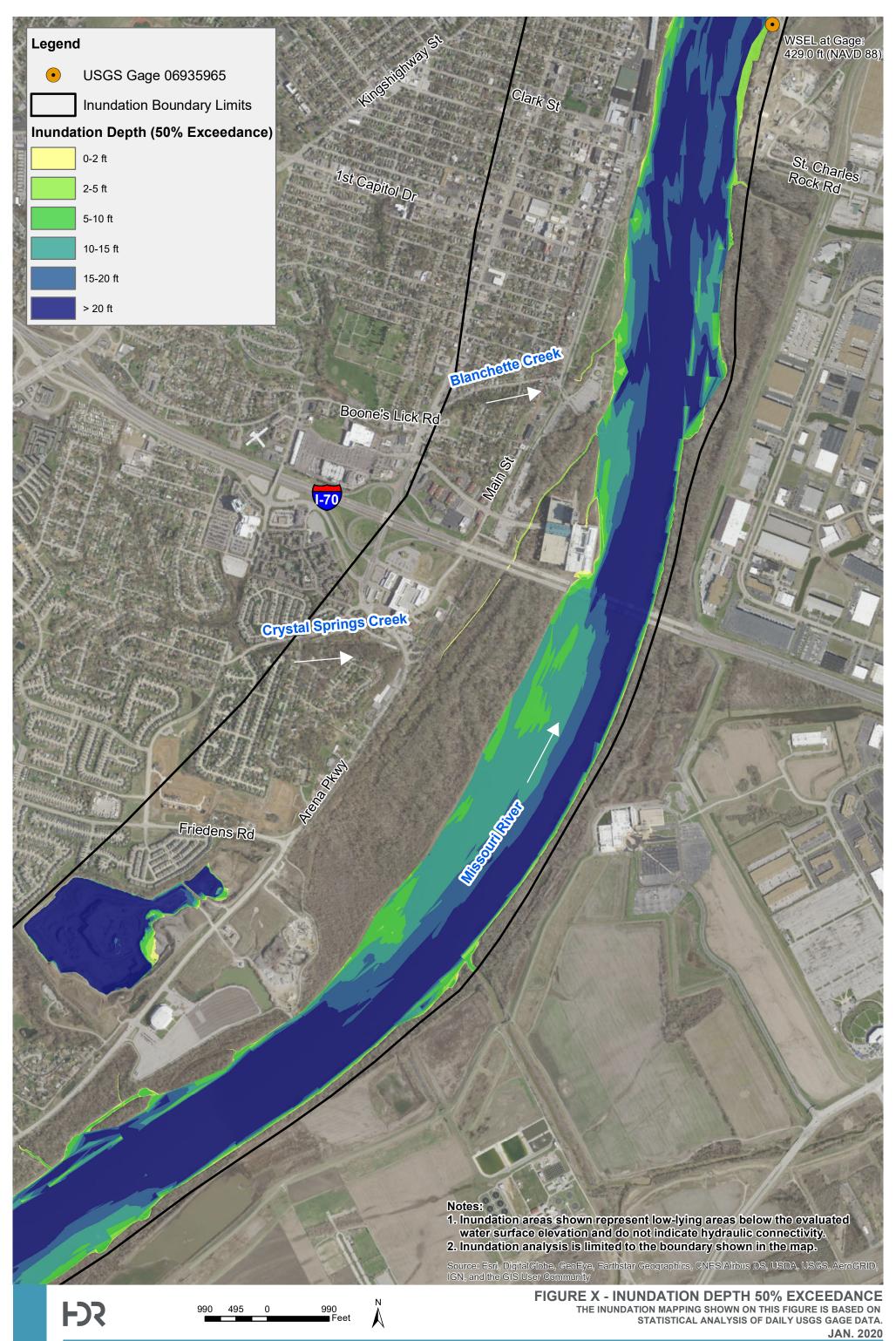


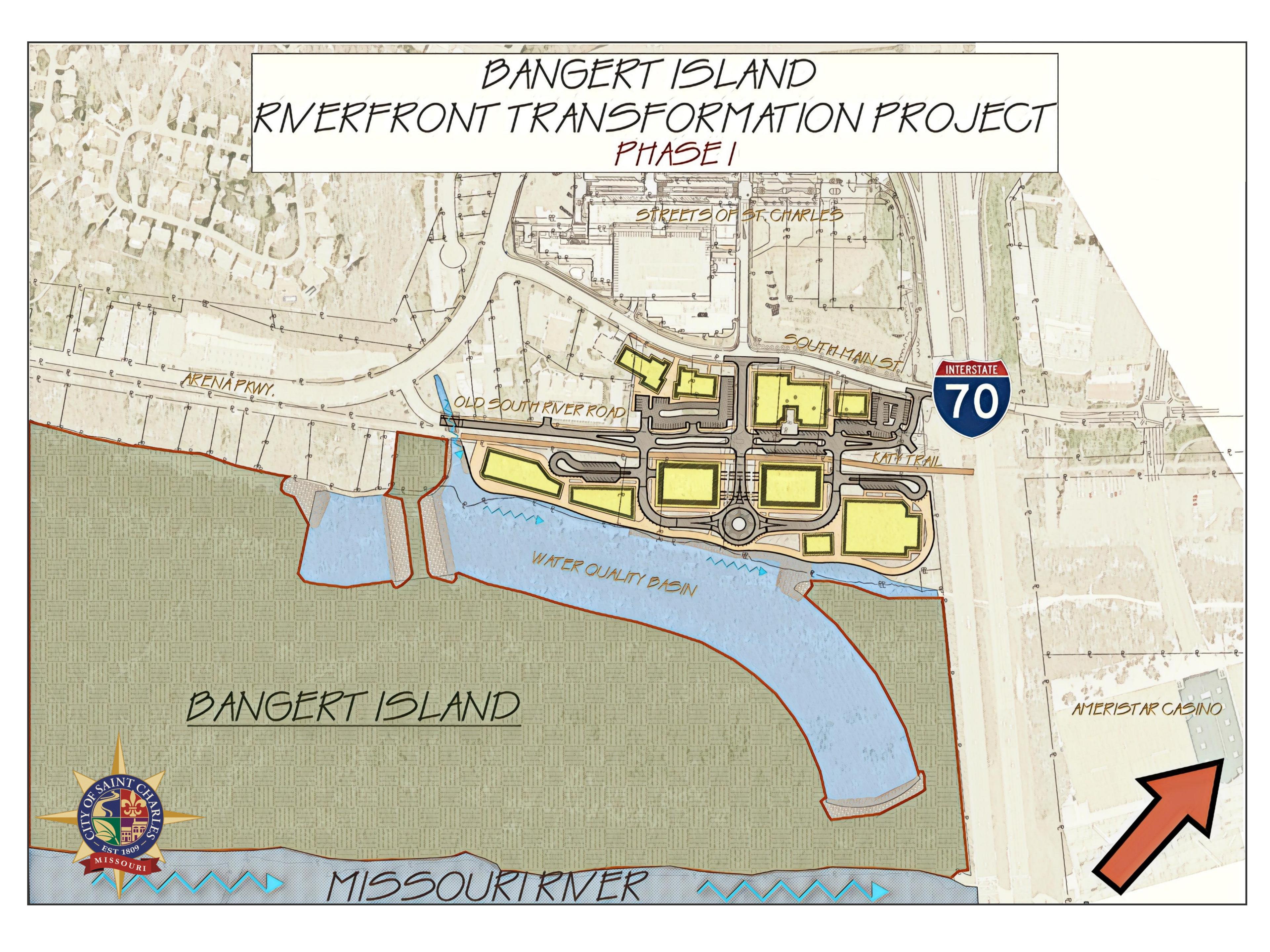


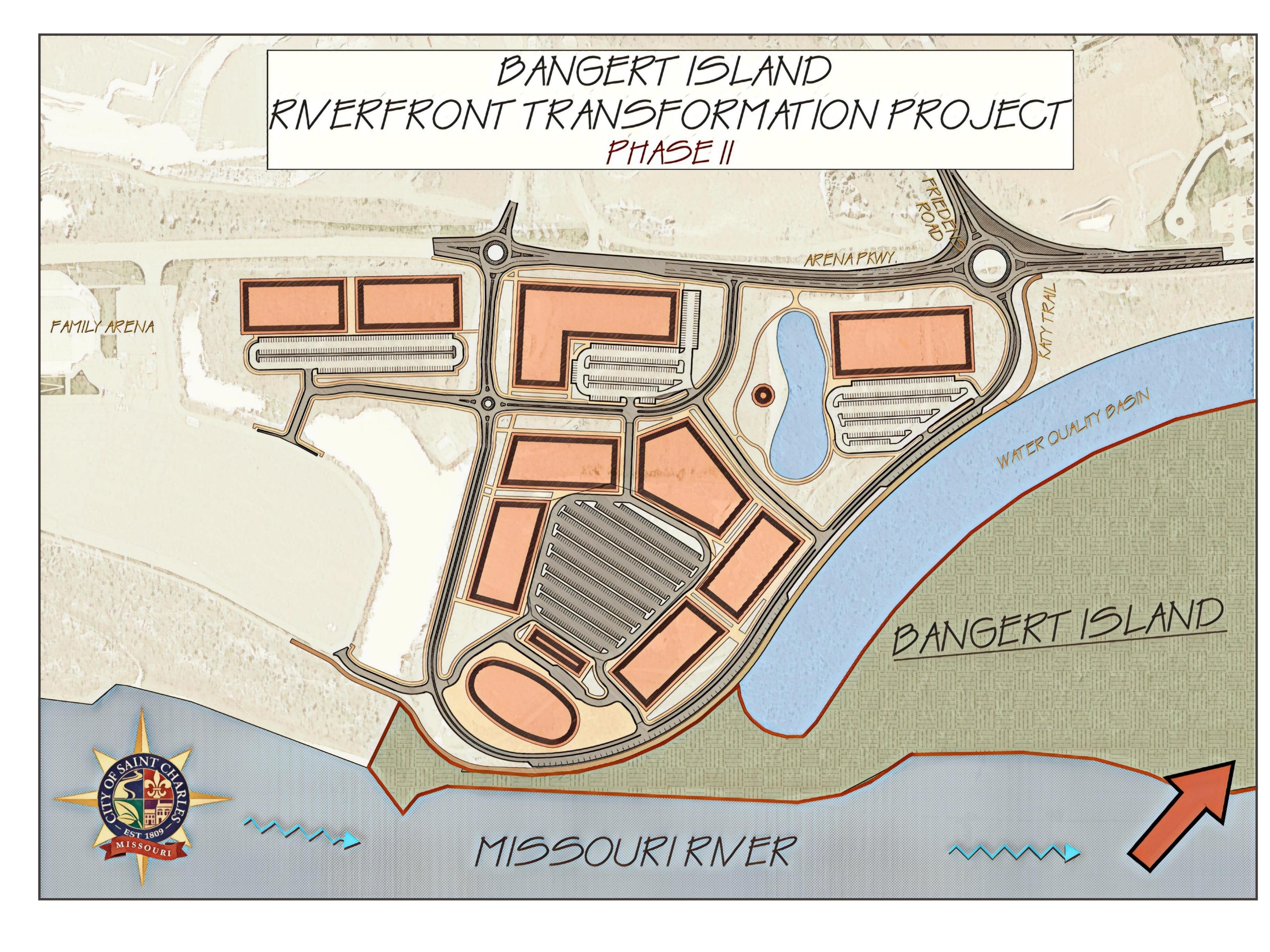


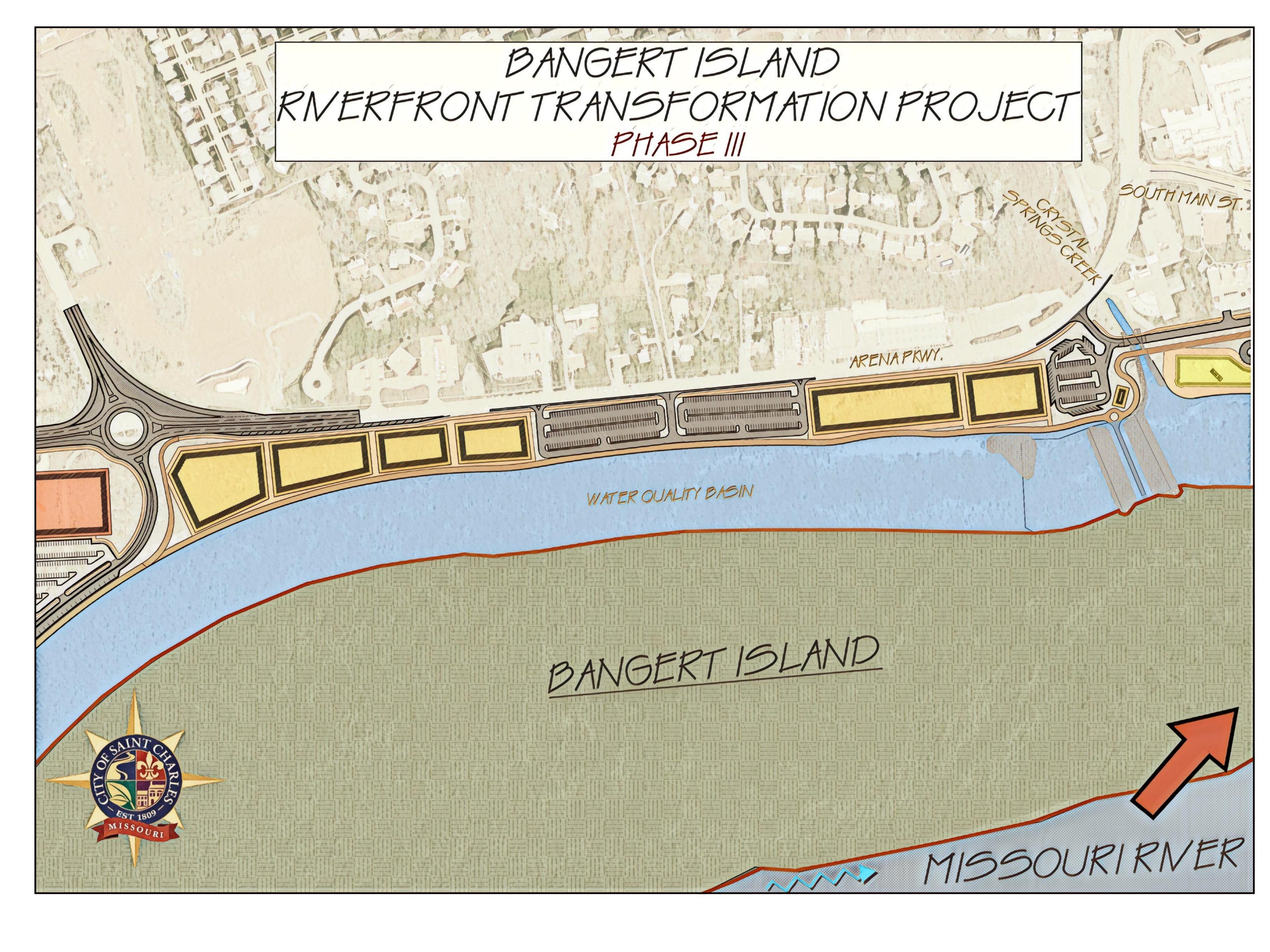
**SECTION 22 PAS** 

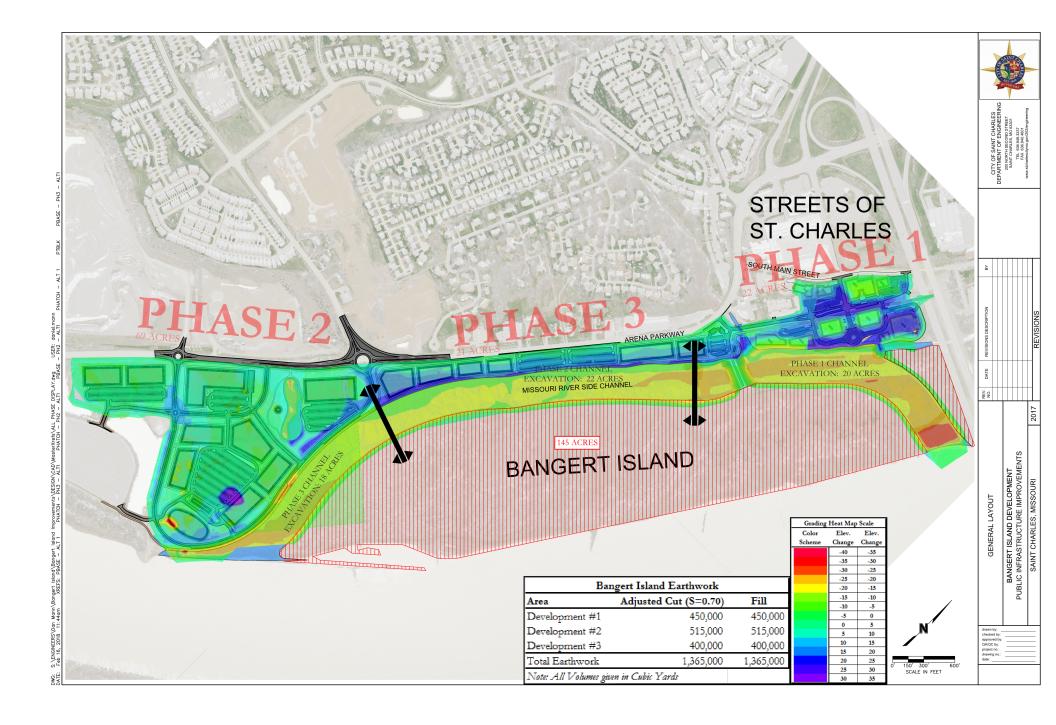


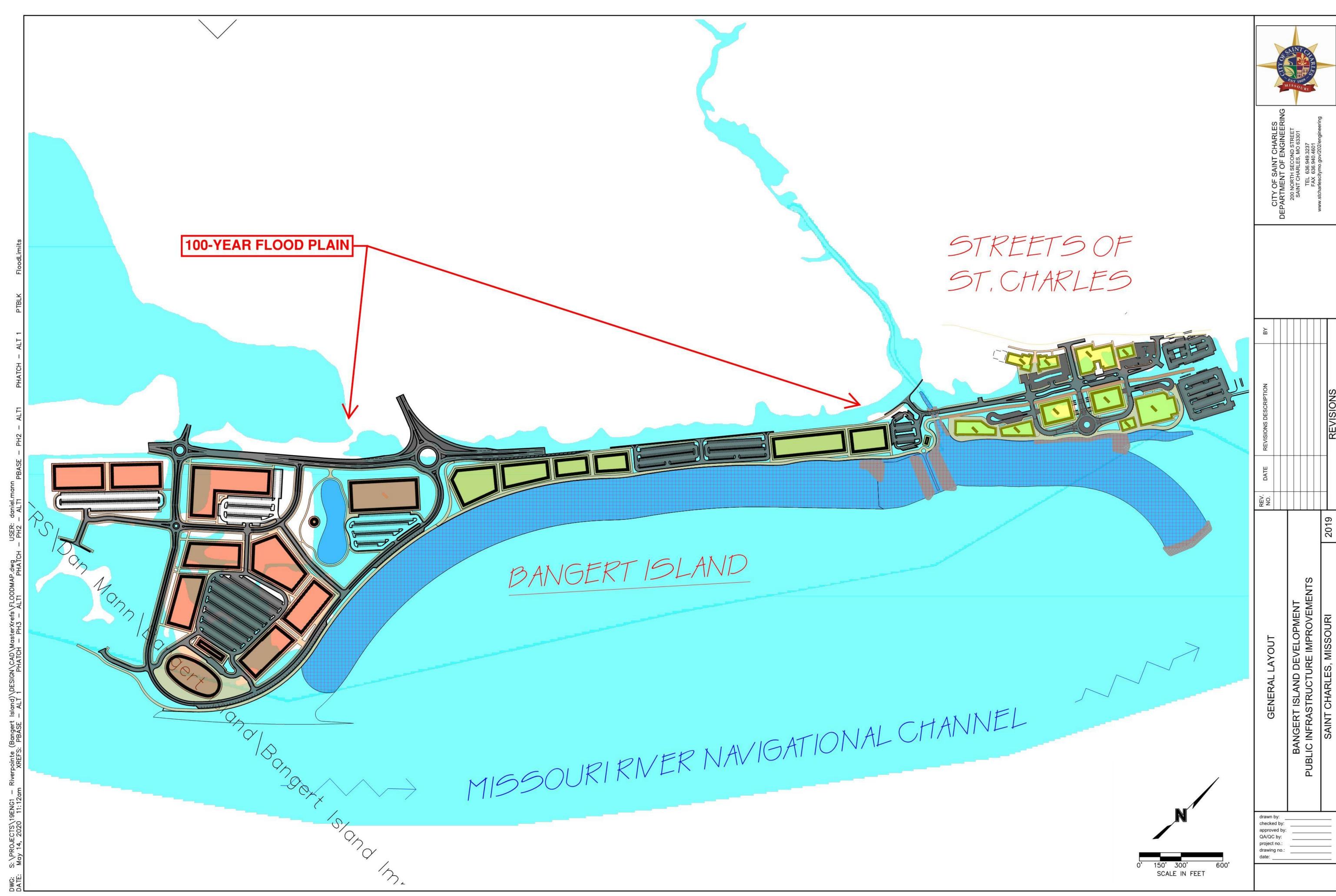












#### GENERAL NOTES

- ALL UTILITY SERVICE LINES SHALL BE KEPT IN SERVICE AND PROTECTED DURING CONSTRUCTION OPERATIONS. THE DRAWINGS INDICATE THE LOCATION OF KNOWN EXISTING UTILITY SERVICE LINES AS COULD BEST BE DETERMINED. HOWEVER, SUCH LOCATIONS ARE NOT GUARANTEED AND THE PLANS MAY NOT SHOW THE LOCATION OF ALL EXISTING UTILITY LINES, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERYIFY AND LOCATE ALL EXISTING LITHLITY SERVICE LINES AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS AND DISCREPENCIES.
- 2.NO AREA SHALL BE CLEARED WITHOUT PERMISSION OF THE COUNTY ENGINEER.
- 3.THIS PROJECT SHALL BE ADMINISTERED IN ACCORDANCE WITH THE ST. CHARLES COUNTY ROAD UTILITY RELOCATION ACT.
- 4.THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ST. CHARLES COUNTY STANDARD SPECIFICATIONS FOR ARTERIAL HIGHWAY CONSTRUCTION, 2006.

#### CONVENTIONAL SYMBOLS (USED IN PLANS)



#### UTILITY NOTES

PROPOSED SIDEWALK

(USED IN PLANS)

HOLD IT! CALL BEFORE YOU DIG!

CONTACT NAME

MATT SEGGERMAN

FELICIA CHILDS

FARRON OWEN

KATHY SMITH

(TBR&R)

(TRA&F)

(TBA)

(UIP)

(DND)

(ATG)

(TBRBO)

(TBR&REL)

PERMANENT DRAINAGE EASEMENT

TEMPORARY CONSTRUCTION EASEMENT

SLOPE LIMIT RIGHT-OF-WAY

REMOVE

REMOVE & REPLACE

REMOVE & RELOCATE

TO BE ABANDONED

ADJUST TO GRADE

USE IN PLACE

DO NOT DISTURB

UTILITY COMPANIES

CITY OF ST. CHARLES W&S

AMEREN MISSOURI

AT&T

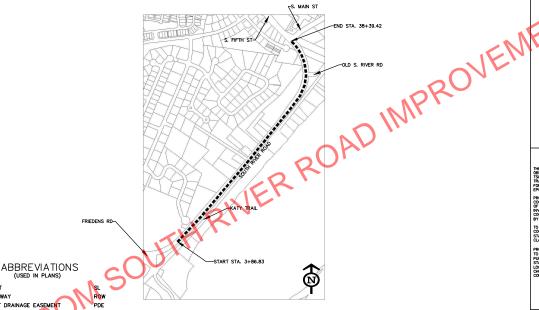
TO BE ABANDONED & FILLED

TO BE REMOVED BY OTHERS

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

## SAINT CHARLES COUNTY HIGHWAY CONSTRUCTION PLANS FOR PROPOSED SOUTH RIVER ROAD IMPROVEMENTS STP-5414(630)

JULY 2018



LOCATION MAP

(NTS)

**SCALES** (FULL SIZE: 22"X34") CROSS SECTION ----- 1"= 10'(H)

SAINT CHARLES COUNTY 301 NORTH THIRD STREET SAINT CHARLES, MO 63301

APPROVED: COUNTY ENGINEER

#### UTILITY COMPANIES

ADDRESS

2100 BLUESTONE DR, ST CHARLES, MO 63303 402 NORTH THIRD ST, ST CHARLES, MO 63301 200 NORTH SECOND ST, ST CHARLES, MO 63301 6400 GRAHAM RD, BERKLEY, MO 63134

TELEPHONE NUMBER (636) 925-3206

DATE:

(636) 949-1312 (636) 940-4617 (314) 575-8423

EMAIL ADDRESS fchilds@ameren.com ks9340@att.com Matthew.Seagerman@stcharlescitymo.gov Farron.Owen@spireenergy.com

#### INDEX OF SHEETS

	DESCRIPTION	SHEET
	DESCRIPTION OF THE PROPERTY OF	110
	TITLE SHEET	
	QUANTITIES	
	COORDINATE POINTS	
	PLAN SHEETS	•••
	ROW SHEETS	
١	DRIVEWAY CROSS SECTIONS	
	EROSION CONTROL SHEETSS	
	TRAFFIC CONTROL SHEETS	
	SIGNING & STRIPING SHEETS	SS1-SS6
	CROSS SECTIONS	- CS1-CS24

SOUTH RIVER
ROAD
SIDEWALK &
PAVEMENT
IMPROVEMENTS DATE SUBMITTED OCT 2018 ST. CHARLES STP-5414(630 STP NUMBER PROJECT NO



#### CONTROL DATUM NOTES

O THE BEST OF OUR KNOWLEDGE, THE MODIFIED MISSOURI STATE PLANE, EAST ZONE CORDINATES MEET THE ACCURACY STANDARDS OF THE CURRENT MISSOURI MINIMUM

## DESIGN CRITERIA

POSTED SPEED LIMIT DESIGN SPEED LIMIT 40 MPH RADIUS (MIN.) MAX GRADIENT

FUNCTIONAL CLASSIFICATION - MINOR ARTERIAL



#### LENGTH OF PROJECT

BEGINNING OF PROJECT STA. 3 + 86.83 END OF PROJECT STA. 38 + 39.42 APPARENT LENGTH 3452.59 FEET

EQUATIONS AND EXCEPTIONS: NONE

TOTAL CORRECTIONS 0.00 FEET NET LENGTH OF PROJECT 3452.59 FFFT STATE LENGTH 0.65 MILES



CHRISTOPHER KYLE BOSTIC ENGINEER LICENSE NO. E-30083

CUEET MIND TITLE-1

## **SUMMARY OF QUANTITIES**

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	ROADWAY ITEMS		
201-20.10	CLEARING AND GRUBBING	LS	1
202-20.10	REMOVAL OF IMPROVEMENTS	LS	1
202-20.20	BACKFILL AND ABANDON EXISTING STORM SEWER	CY	21.8
203-99.10	UNSUITABLE SUBGRADE	CY	1,000.0
207-10.01	LINEAR GRADING	STA	34.5
304-05.04	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	SY	21677.2
401-16.00	BITUMINOUS PAVEMENT MIXTURE PG64-22, (BP-1)	TONS	2260.8
405-10.00	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BASE)	TONS	8471.4
407-10.05	TACK COAT	GAL	1016
502-11.07	CONCRETE PAVEMENT (7 IN. NON-REINF)	SY	1062.7
604-20.00	ADJUST TO GRADE (SEWER MANHOLE)	EA	10
609-10.10	CONCRETE CURB (6" HEIGHT AND UNDER) TYPE S	(I)	196
609-10.43	1.5 FT CONCRETE CURB AND GUTTER (6 IN.)	) (F	500
609-20.11	INTEGRAL CURB (6 IN. HEIGHT AND UNDER) TYPE A	LF	458
612-10.25	CHANNELIZER (TRIM LINE)	EA	334
613-10.14	SAWCUT (ANY DEPTH)	LF	5376
614-99.10	DRIVEWAY TRENCH DRAIN	LF	53
616-10.00	TYPE III MOVEABLE BARRICADE 🕡 💛	EA	9
618-10.00	MOBILIZATION	LS	1
619-10.00	PAVEMENT EDGE TREATMENT	LF	2850
627-40.00	CONTRACTOR FURNISHED SURVEYING AND STAKING	LS	1
731-00.01	REPLACE MANHOLE LID	EA	2
731-00.02	REPLACE DOUBLE CURB INLET TOP (LOCKING LID)	EA	11
731-00.03	REPLACE SINGLE CURB INLET TOP (LOCKING LID)	EA	2
731-00.04	GRATE INLET (LOCKING LID)	EA	1
731-01.00	CONVERT TO MANHOLE, ADJUST TO GRADE	EA	6
731-99.10	REMOVE AND REPLACE TOP W/ SUMP BRIDGE TOP - DOUBLE	EA	2
303-10.00A	SODDING	SY	1453
805-20.00	SEEDING AND MULCHING	ACRE	0.4
806-10.00	INLET CHECK	EA	43
806-70.00	SILT FENCE	LF	5722
$\circ$	SIGNING, STRIPING, SIGNALS, AND LIGHTING ITEMS		
612-10.05	CONSTRUCTION SIGNS	SF	2226
612-50.00	PROJECT INFORMATION SIGNS	LS	1
620-20.01	4 IN SOLID WHITE EXTRUDED THERMOPLASTIC PAVEMENT MARKING PAINT	LF	5106
620-20.02	4 IN INTERMITENT WHITE EXTRUDED THERMOPLASTIC PAVEMENT MARKING PAINT	LF	6290
620-20.03	4 IN SOLID YELLOW EXTRUDED THERMOPLASTIC PAVEMENT MARKING PAINT	LF	5872
620-20.04	24 IN SOLID WHITE EXTRUDED THERMOPLASTIC PAVEMENT MARKING PAINT	LF	11
620-20.05	WHITE BICYCLE SYMBOL & ARROW PAVEMENT MARKING PAINT	EA	7
620-20.06	24 IN SOLID DIAGONAL YELLOW EXTRUDED THERMOPLASTIC PAVEMENT MARKING PAINT	LF	24
620-26.01	TEMPORARY PAVEMENT MARKING 4 IN., WHITE	LF	4430
620-26.02	TEMPORARY PAVEMENT MARKING 4 IN., YELLOW	LF	9333
903-50.04A	PERMANENT SIGNAGE	SF	59
	BIKE AND PEDESTRIAN ITEMS	•	
608-60.04	4" THICK CONCRETE SIDEWALK	SY	1294.6

SOUTH RIVER
ROAD
SIDEWALK &
PAVEMENT
IMPROVEMENTS

DATE SUBMITTED
OCT 2018
COUNTY
ST. CHARLES

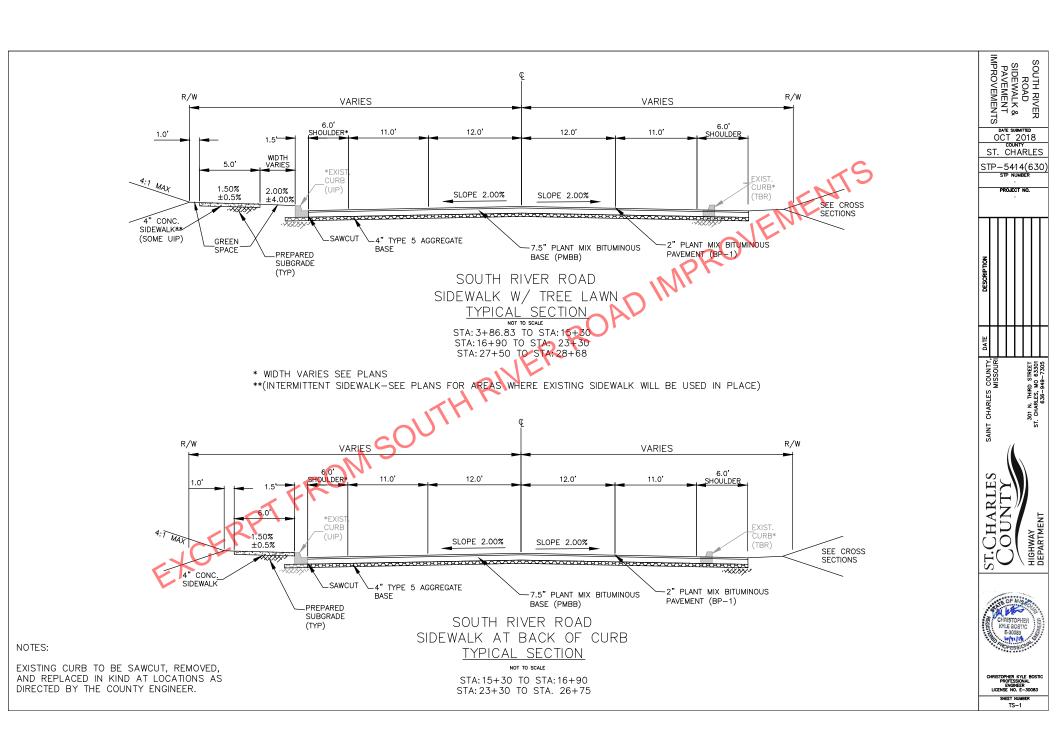
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STP NUMBER
PROJECT NO.

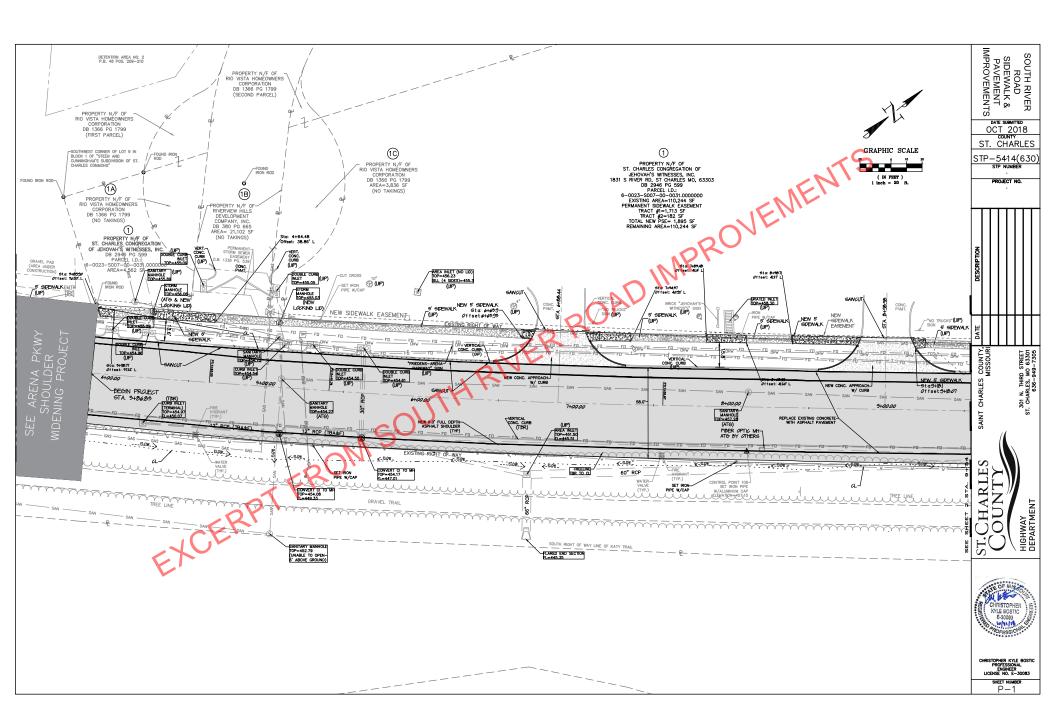
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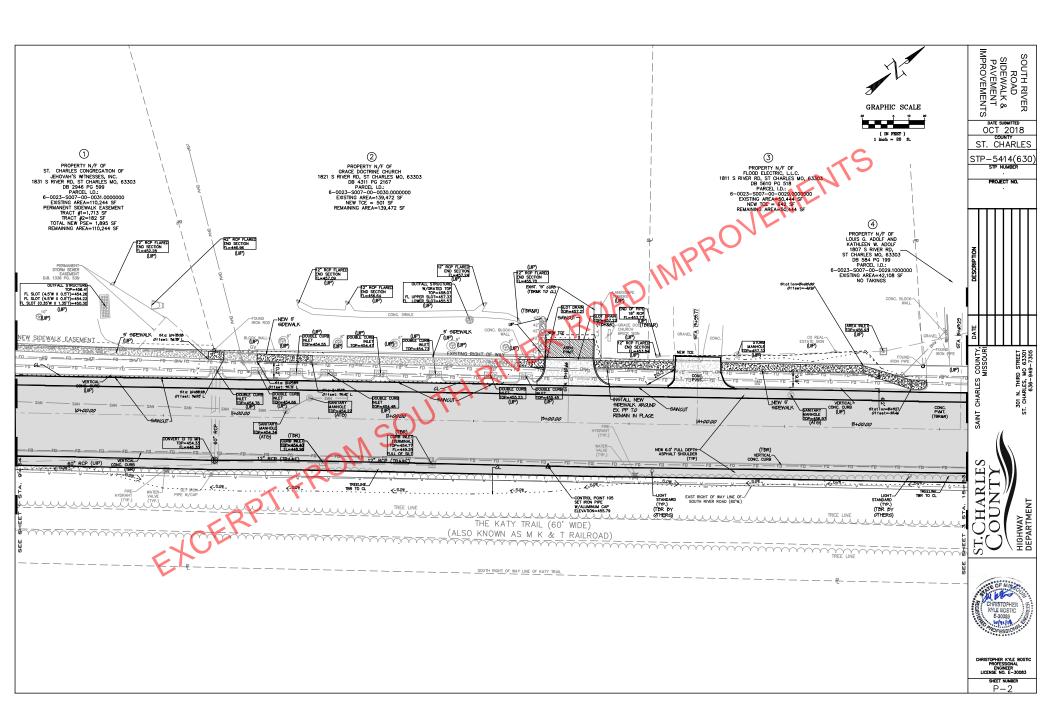


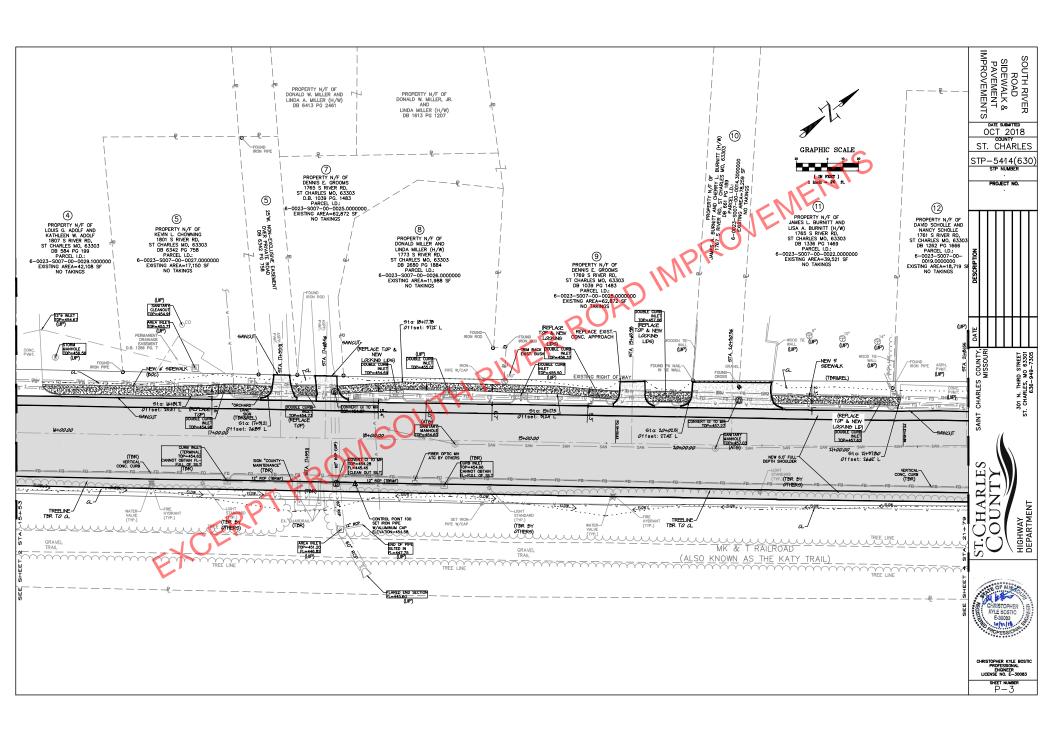


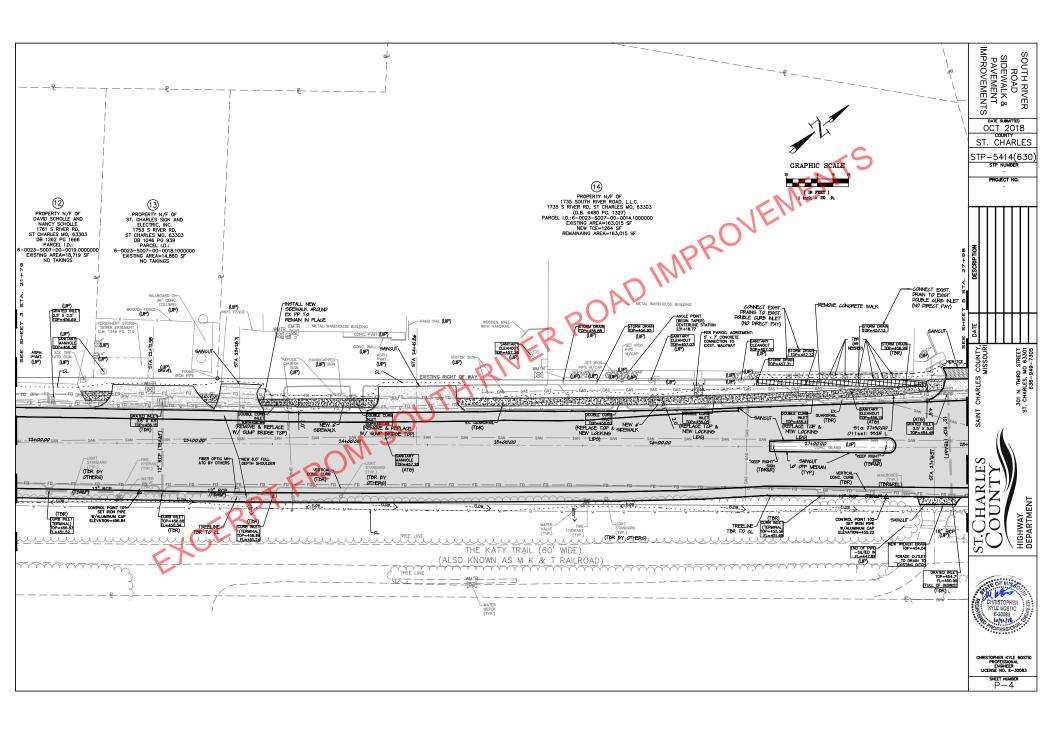


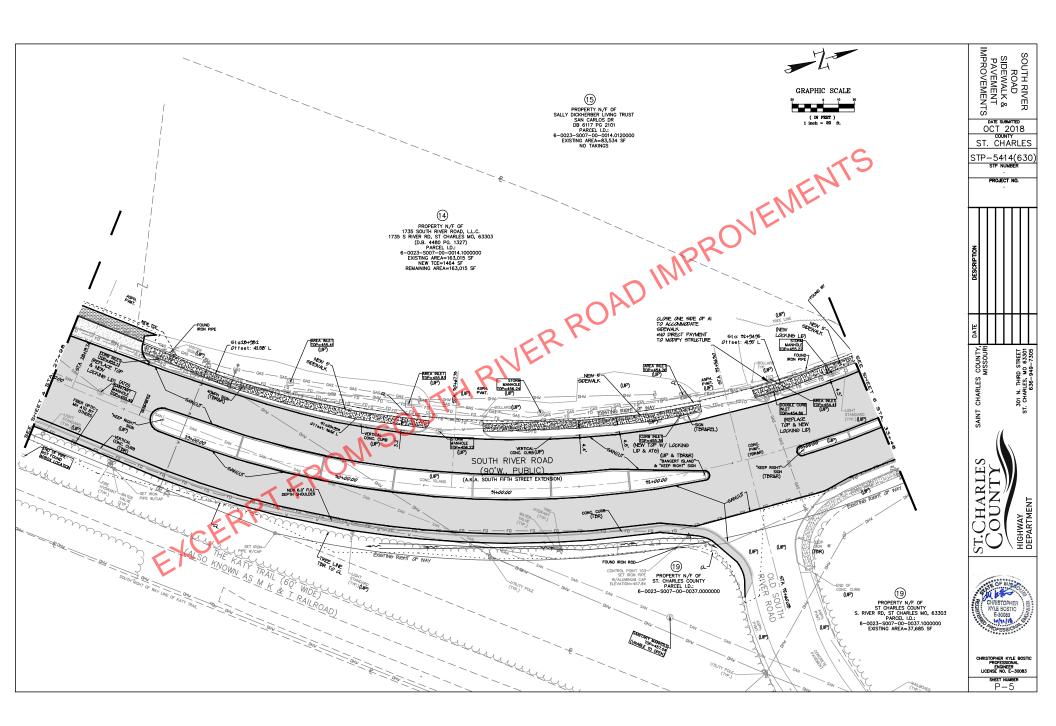


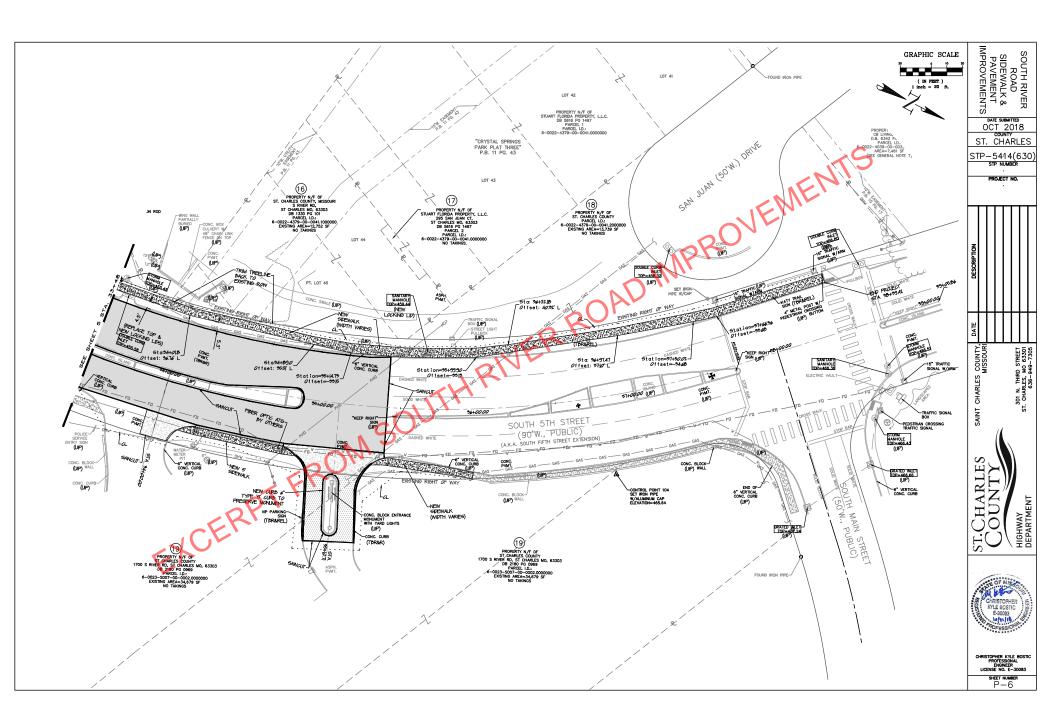












# 19 ENG 1 RIVERPOINTE PUBLIC INFRASTRUCTURE PROJECT

PHASE 1A - BANK IMPROVEMENTS AND MASS GRADING

## CITY OF ST. CHARLES GENERAL NOTES

- 1. ALL IMPROVEMENTS CONSTRUCTED HEREIN SHALL COMPLY WITH THE CODE OF ORDINANCES OF THE CITY
- 2. A LAND DISTURBANCE PERMIT, OBTAINED BY THE CONTRACTOR, FROM THE MISSOURI DEPARTMENT OF NATURAL RESOURCES IS REQUIRED PRIOR TO COMMENCING ANY DEMOLITION, CLEARING OR CONSTRUCTION ON SITE. PROVIDE COPY OF APPROVAL FROM THE DEPARTMENT OF NATURAL RESOURCES TO THE DEPARTMENT OF ENGINEERING
- SILTATION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN ACCORDANCE WITH THE SWPPP PLAN. ADDITIONAL SILTATION CONTROL MAY BE REQUIRED AS DIRECTED BY THE CITY
- 4. WHEN GRADING OPERATIONS ARE COMPLETED OR SUSPENDED FOR MORE THAN 30 DAYS, PERMANENT GRASS MUST BE ESTABLISHED TO CONTROL EROSION. (CODE SECTION 510.090.D.1)
- ALL MUD AND DEBRIS FROM CONSTRUCTION SITE TO BE KEPT OFF OF CITY MAINTAINED STREETS. STREETS
- CONTRACTOR SHALL PROTECT THE PUBLIC FROM CONSTRUCTION ACTIVITIES AT ALL TIMES WITH FENCING. THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE TRAFFIC CONTROL PER THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. CONTRACTOR SHALL BE REQUIRED TO SECURE ALL CLOSURE PERMITS FROM THE CITY AS REQUIRED.
- GRADES CANNOT EXCEED A 3:1 SLOPE. (CODE SECTION 510.090.A)
- CONSTRUCTION ACTIVITIES SHALL ABIDE BY THE NOISE RESTRICTIONS AS OUTLINES IN CODE SECTION 230.
- 9. EXISTING TOPOGRAPHIC INFORMATION USED IN THESE PLANS WERE DEVELOPED THROUGH A COMBINATION OF INFORMATION PROVIDED BY THE CITY (HDR) AND SUPPLEMENTAL INFORMATION COLLECTED BY CMT AND COLE AND ASSOCIATES. CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- 10. THE EXISTING KATY TRAIL SHALL REMAIN CLEAR AND ACCESSIBLE TO THE PUBLIC AT ALL TIMES.
- 11. MAINTAIN ACCESS TO CELL SITE TOWER AT ALL TIMES CONTRACTOR SHALL PROTECT AS REQUIRED
- 12. ACCESS TO THE SITE SHALL BE OFF OLD SOUTH RIVER ROAD ONLY

## SITE DATA

ST. CHARLES, MO SITE ACREAGE 8.35 AC 6.60 AC DISTURBED LAND C-2 GENERAL BUSINESS DISTRICT **EXISTING ZONING** 

R-1E SINGLE FAMILY RESIDENTIAL DISTRICT C-2 GENERAL BUSINESS DISTRICT PROPOSED ZONING R-1E SINGLE FAMILY RESIDENTIAL DISTRICT

SCHOOL DISTRICT ST. CHARLES WUNNENBERGS 46N 5E WATERSHED MISSOURI RIVER FEMA MAP PANEL = 29183C0288G ZONE AE

## **BENCHMARK**

NGS MONUMENT Q-149 (PID JC0051). STANDARD DISK, STAMPED Q149 1935 SET IN THE TOP OF A CONCRETE POST LOCATED IN THE ASPHALT PARKING LOT FOR THE ST. CHARLES BORROMEO CHURCH. NAVD ELEV: 527.73 FT

## SITE BENCHMARK:

CHISLED SQUARE ON LIGHT POLE BASE ELEV: 474.93 1067931.7300 N, 822834.2920 E

CHISELED SQUARE ON SW CORNER OF STORMBOX

1067348.988 N, 822726.5070 E

CP 102 ELEV: 486.85

1067766.9390 N, 822596.4990 E

CP 102 CPT ½" IB ELEV: 472.40 1067958.6870 N, 822856.9200 E

PREPARED FOR:

CITY OF ST. CHARLES, MO

200 NORTH SECOND STREET ST. CHARLES, MO 63301

WATER SERVICE = CITY OF ST. CHARLES

200 NORTH SECOND ST. ST. CHARLES, MO 63301 (636)949-3550 CONTACT: JOHN PHILLIPS

john.phillips@stcharlescitymo.gov DENNIS KELLY dennis.kelly@stcharlescitymo.gov

SEWER DISTRICT = CITY OF ST. CHARLES 200 NORTH SECOND ST ST. CHARLES, MO 63301 (636)949-3237

CONTACT: JOHN ZIMMERMAN john.zimmerman@stcharlescitymo.gov CABLE SERVICE = CHARTER COMMUNICATIONS

4282 SHORELINE DR. EARTH CITY, MO 63045 (636)387-6643 CONTACT: JOHN DANOWSKI john.danowski@charter.com TELEPHONE =

402 NORTH THIRD ST. ST. CHARLES, MO 63301 (314) 277-0683 CONTACT: MATT THOMPSON mt4308@att.com ELECTRIC SERVICE = AMEREN UE ST. CHARLES DISTRICT

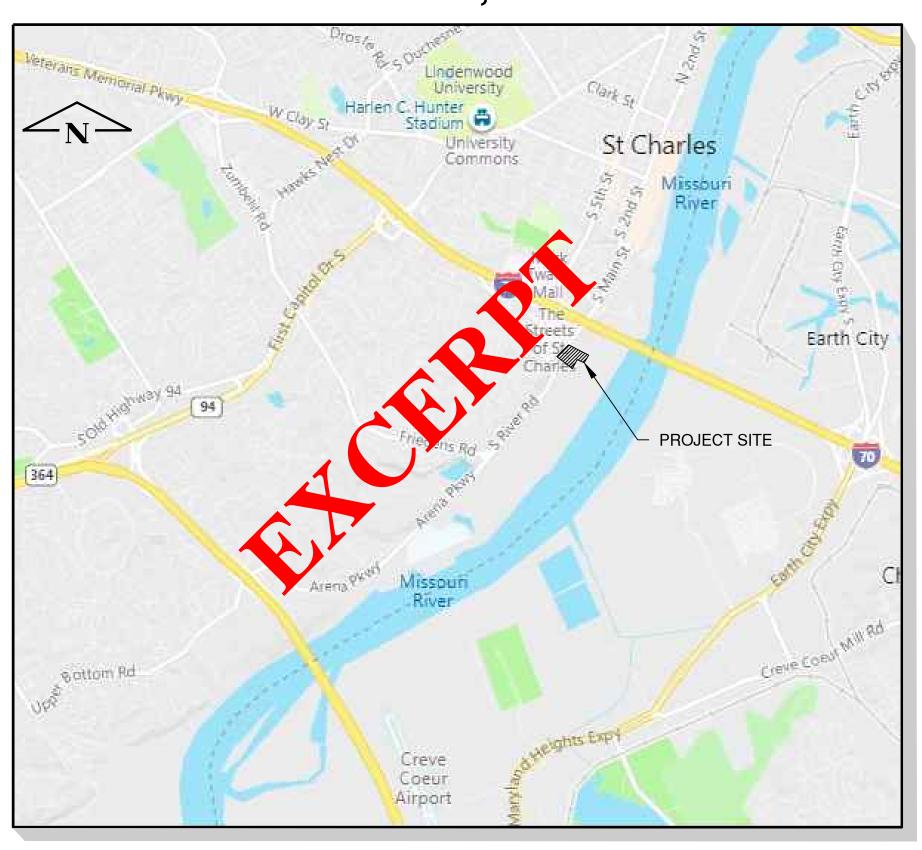
AT&T

2100 BLUESTONE DR ST. CHARLES, MO 63303 (636)925-3206 CONTACT: FELICIA CHILDS fchilds@ameren.com CABLE SERVICE =

6400 GRAHAM ROAD BERKLEY, MO 63134 (816)472-3489 CONTACT: RICHARD FROCK richard.frock@spireenergy.com

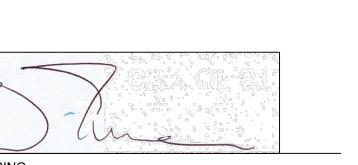
BID NUMBER 4492

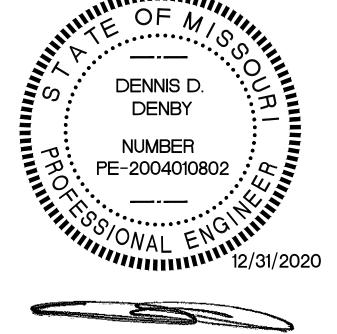
CITY OF ST. CHARLES, ST. CHARLES COUNTY, MISSOURI **APRIL 2, 2020** 



**LOCATION MAP** (NOT TO SCALE)







DENNIS D. DENBY - ENGINEER MO PE-2004010802

## **UTILITIES DATA**

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.



**UTILITY INFOMATION:** 

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



www.cmtengr.com

CRAWFORD, MURPHY & TILLY, INC. **ENGINEERS & CONSULTANTS** 

SHEET INDEX

**COVER SHEET** 

**DEMOLITION PLAN 1** 

**DEMOLITION PLAN 2** 

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16 CROSS SECTIONS 2

17 CROSS SECTIONS 3

18 | CROSS SECTIONS 4

19 CROSS SECTIONS 5

9 UTILITY PLAN 2

GRADING & DRAINAGE PLAN 1

**GRADING & DRAINAGE PLAN 2** 

10 SANITARY SEWER 1 PLAN & PROFILE

12 EROSION CONTROL PLAN (SWPPP) 1

13 EROSION CONTROL PLAN (SWPPP) 2

11 SANITARY SEWER 2 PROFILE & DETAILS | | |

14 EROSION CONTROL (SWPPP) DETAILS

2 OVERALL PLAN

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C-1.3

C-3.1

C-3.2

C-4.3

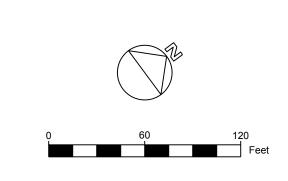
**REVISIONS** 1 2 3 4 5

ONE MEMORIAL DRIVE SUITE 500 ST. LOUIS, MO 63102 PH (314)436-5500

**CMT JOB NO.: 19043402** License No. 184-000631

SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO ■ CHICAGO, IL ■ COLUMBUS, OH

PEORIA, IL ■ EDWARDSVILLE, IL ■ INDIANAPOLIS, IN ■ SPRINGFIELD, MO



LEGEND



ITEM DESCRIPTION

EMBANKMENT IN PLACE (ONSITE RECOMPACTED)

8" PVC SDR 35 GRAVITY SEWER, OPEN CUT

12" PVC SDR 26 GRAVITY SEWER, OPEN CUT

36" PVC PS115 GRAVITY SEWER, OPEN CUT

PRECAST CONCRETE DROP MANHOLE, 6' DIA.

PRECAST CONCRETE SETOVER MANHOLE, 6' DIA.

PRECAST CONCRETE SETOVER MANHOLE, 5' DIA.

UNSUITABLE MATERIAL

BYPASS PUMPING

REMOVE EXISTING MANHOLE

TEMPORARY EROSION CONTROL

18 FINAL SEEDING OF DISTURBED AREA

20 VENT AND GROUT PORT COMPLETE

21 RAISE EXISTING SANITARY MANHOLE

AGGREGATE BASE COURSE, 12"

PIPE CULVERT, 15" RCP

AS-BUILT PLANS

ABANDON EXISTING SANITARY SEWER

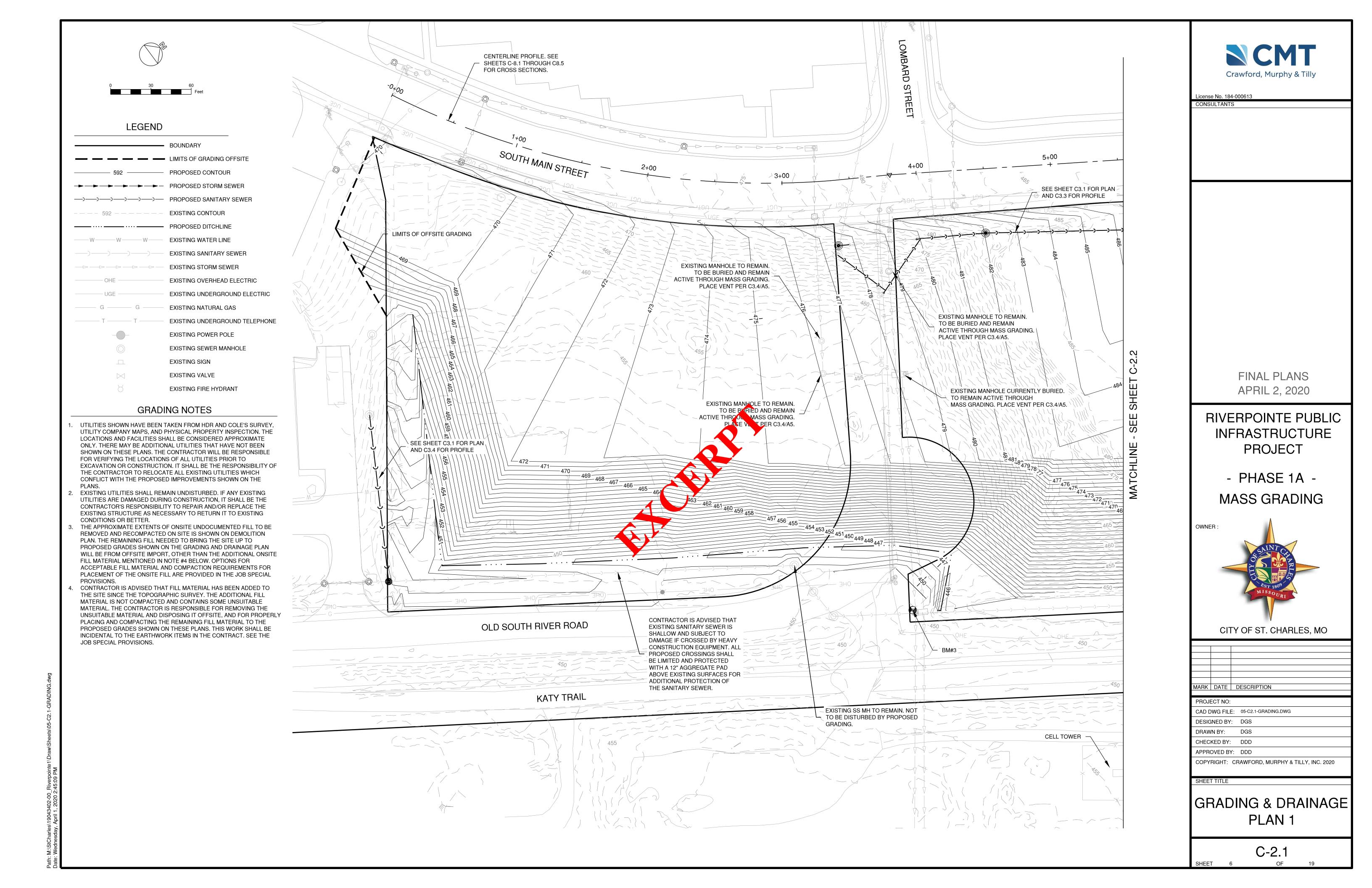
10 PRECAST CONCRETE MANHOLE, 6' DIA.

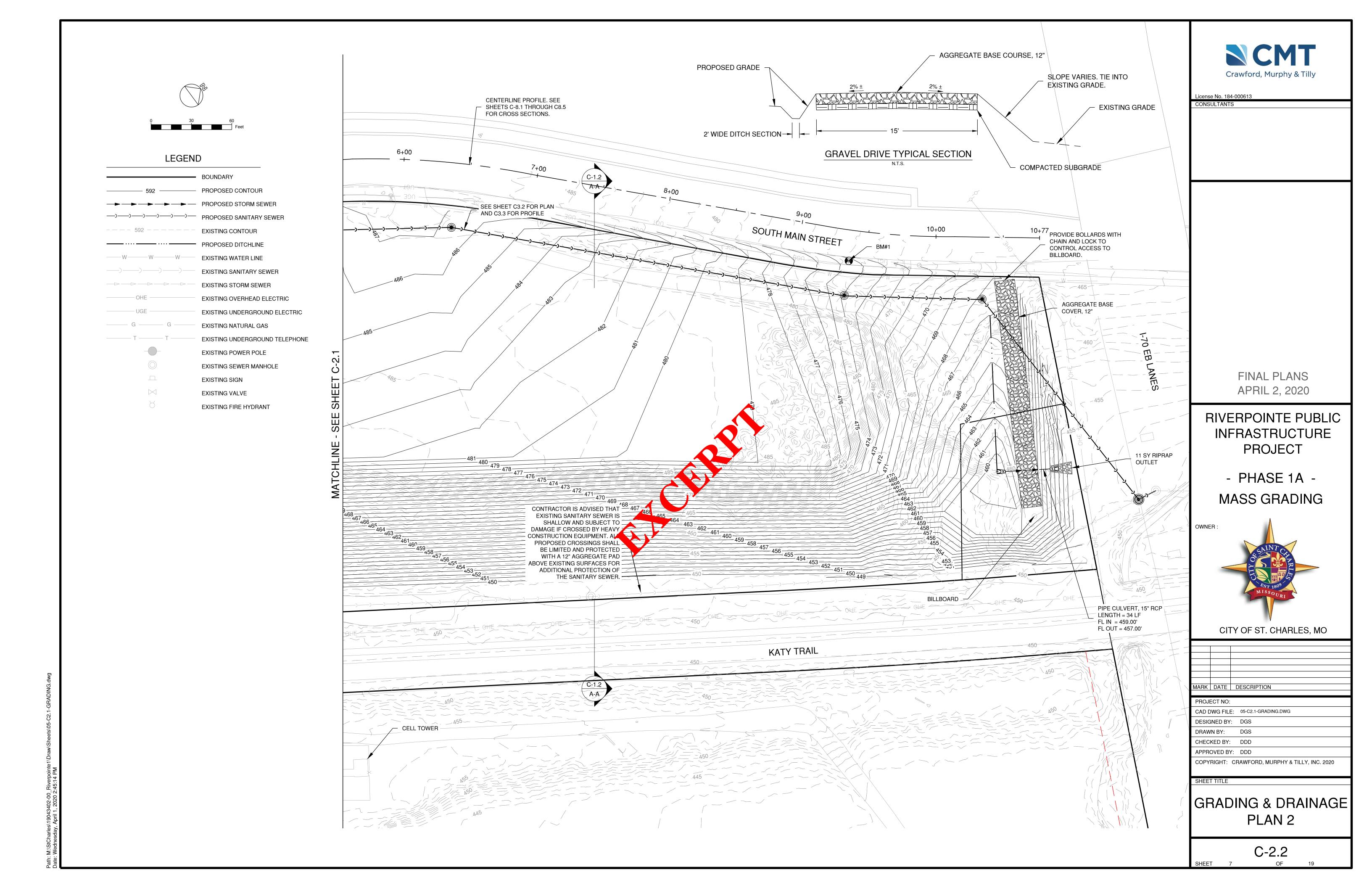
36" PVC PS115 GRAVITY SEWER, OPEN CUT, WITH

CMT License No. 184-000613 CONSULTANTS SOUTH MAIN STREET 1-70 EB FINAL PLANS GENERAL WORK AREA APRIL 2, 2020 RIVERPOINTE PUBLIC INFRASTRUCTURE BUILDING PREVIOUSLY DEMOLISHED PROJECT - PHASE 1A -MASS GRADING OLD SOUTH RIVER ROAD **BID QUANTITIES** KATY TRAIL UNIT TOTAL QUANTITY OWNER: KATY TRAIL L.S. CU. YD. 46,900 EMBANKMENT IN PLACE (AMERISTAR BORROW SOURCE) CU. YD. 36,000 EMBANKMENT IN PLACE (CONTRACTOR FURNISHED) CU. YD. 27,175 L.F. 125 CELL TOWER L.F. CITY OF ST. CHARLES, MO L.F. 650 L.F. 189 EACH MARK DATE DESCRIPTION EACH PROJECT NO: EACH CAD DWG FILE: 02-C1.0-GENPLAN.DWG DESIGNED BY: DGS EACH DRAWN BY: DGS L.S. CHECKED BY: DDD EACH APPROVED BY: DDD L.S. COPYRIGHT: CRAWFORD, MURPHY & TILLY, INC. 2020 L.S. ACRE 6.9 STORMWATER POLLUTION PREVENTION PLAN (SWPPP) L.S. OVERALL PLAN L.S. L.S. SQ. YD. 283 C-1.0 L.F. L.S.

NUMBER

MOBILIZATION DEMOLITION





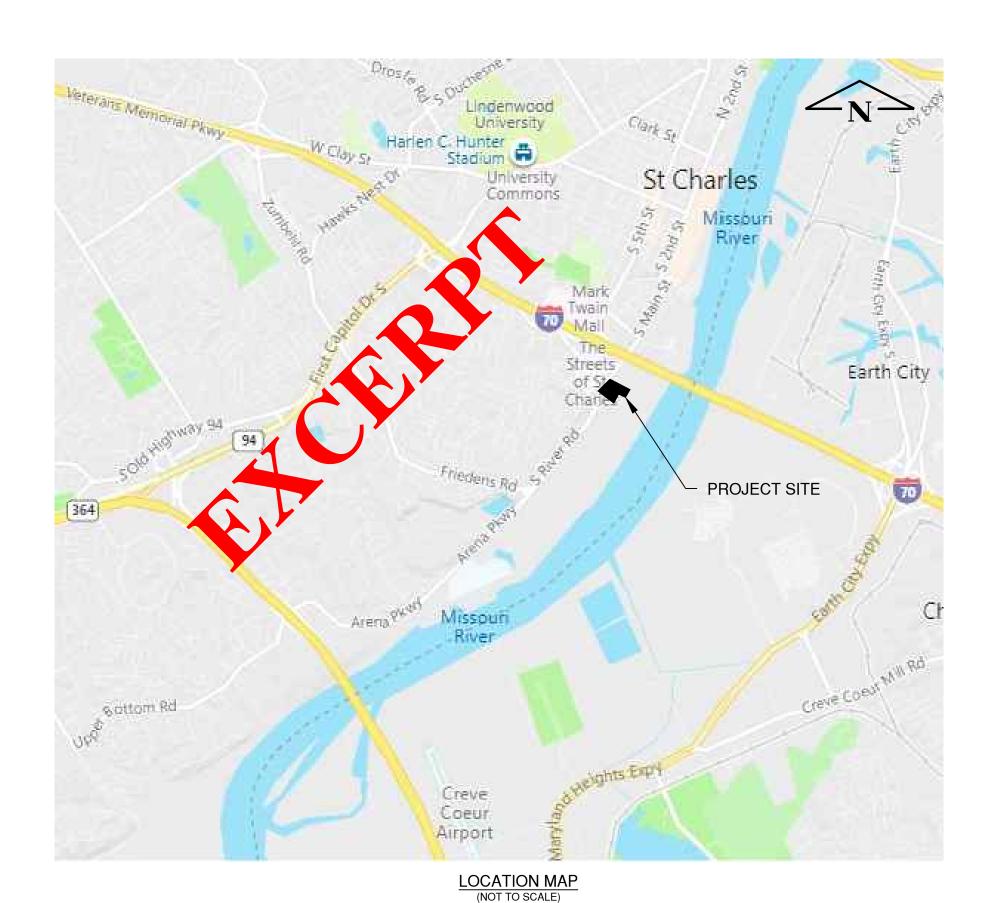
ISSUED FOR CONSTRUCTION 1-9-2020

# RIVERPOINTE PUBLIC INFRASTRUCTURE PROJECT

CITY OF ST. CHARLES, ST. CHARLES COUNTY, MISSOURI

**JANUARY 9, 2020** 

# BID NUMBER 4473 PHASE 1- TREE REMOVAL PLANS



## UTILITIES DATA

john.phillips@stcharlescitymo.gov

dennis.kelly@stcharlescitymo.gov

## PERTINENT DATA

OWNER CITY OF ST. CHARLES SITE ADDRESS 1440 S MAIN STREET ST. CHARLES, MO SITE ACREAGE DISTURBED LAND = 3.72 AC **EXISTING ZONING** C-2 GENERAL BUSINESS DISTRICT

R-1E SINGLE FAMILY RESIDENTIAL DISTRICT PROPOSED ZONING C-2 GENERAL BUSINESS DISTRICT R-1E SINGLE FAMILY RESIDENTIAL DISTRICT ST. CHARLES SCHOOL DISTRICT

WUNNENBERGS = 46N 5E WATERSHED MISSOURI RIVER FEMA MAP PANEL = 29183C0288G ZONE AE

CABLE SERVICE

ST. CHARLES, MO 63301 CONTACT: JOHN ZIMMERMAN john.zimmerman@stcharlescitymo.gov CABLE SERVICE

PHONE SERVICE

ELECTRIC SERVICE

ST. CHARLES, MO 63303 (636)925-3206 CONTACT: FELICIA CHILDS fchilds@ameren.com 6400 GRAHAM ROAD BERKLEY, MO 63134 (816)472-3489 CONTACT: RICHARD FROCK

richard.frock@spireenergy.com

mt4308@att.com

402 NORTH THIRD ST.

(314) 277-0683

AMEREN UE

ST. CHARLES, MO 63301

ST. CHARLES DISTRICT

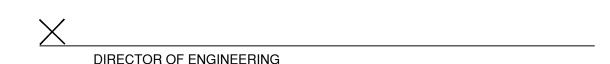
2100 BLUESTONE DR

CONTACT: MATT THOMPSON

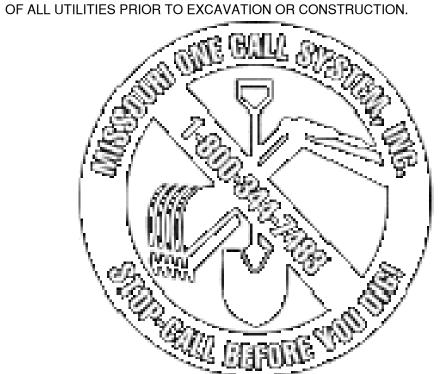


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C-3.1	SITE PLAN					
C-4.1	SWPPP					
C-4.2	SWPPP NOTES & DETAILS					



BE ADDITIONAL UTILITIES THAT HAVE NOT BEEN SHOWN ON THESE PLANS. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE LOCATIONS



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



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.: 19043402** License No. 184-000631

SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO ■ CHICAGO, IL ■ COLUMBUS, OH PEORIA, IL ■ EDWARDSVILLE, IL ■ INDIANAPOLIS, IN ■ SPRINGFIELD, MO

- SILTATION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN ACCORDANCE WITH THE SWPPP PLAN. ADDITIONAL SILTATION CONTROL MAY BE REQUIRED AS DIRECTED BY THE CITY ENGINEER. (CODE SECTION
- WHEN GRADING OPERATIONS ARE COMPLETED OR SUSPENDED FOR MORE THAN 30 DAYS, PERMANENT GRASS MUST BE ESTABLISHED TO CONTROL EROSION. (CODE SECTION 510.090.D.1)
- ALL MUD AND DEBRIS FROM CONSTRUCTION SITE TO BE KEPT OFF OF CITY MAINTAINED STREETS. STREETS SHALL BE SWEPT TWICE DAILY. (CODE SECTION 510.090.E).

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER TO PROVIDE TRAFFIC CONTROL PER THE LATEST

- EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- GRADES CANNOT EXCEED A 3:1 SLOPE. (CODE SECTION 510.090.A)
- CONSTRUCTION ACTIVITIES SHALL ABIDE BY THE NOISE RESTRICTIONS AS OUTLINES IN CODE SECTION 230.

## **BENCHMARK**

NGS MONUMENT Q-149 (PID JC0051), STANDARD DISK, STAMPED Q149 1935 SET IN THE TOP OF A CONCRETE POST LOCATED IN THE ASPHALT PARKING LOT FOR THE ST. CHARLES BORROMEO CHURCH. NAVD ELEV: 527.73 FT

SITE BENCHMARK:

CHISLED SQUARE ON LIGHT POLE BASE ELEV: 447.93 1067931.7300 N, 22834.2920 E

WATER SERVICE

SEWER DISTRICT CITY OF ST. CHARLES 200 NORTH SECOND ST. (636)949-3237

> CHARTER COMMUNICATIONS 4282 SHORELINE DR. EARTH CITY, MO 63045 (636)387-6643

CITY OF ST. CHARLES

200 NORTH SECOND ST.

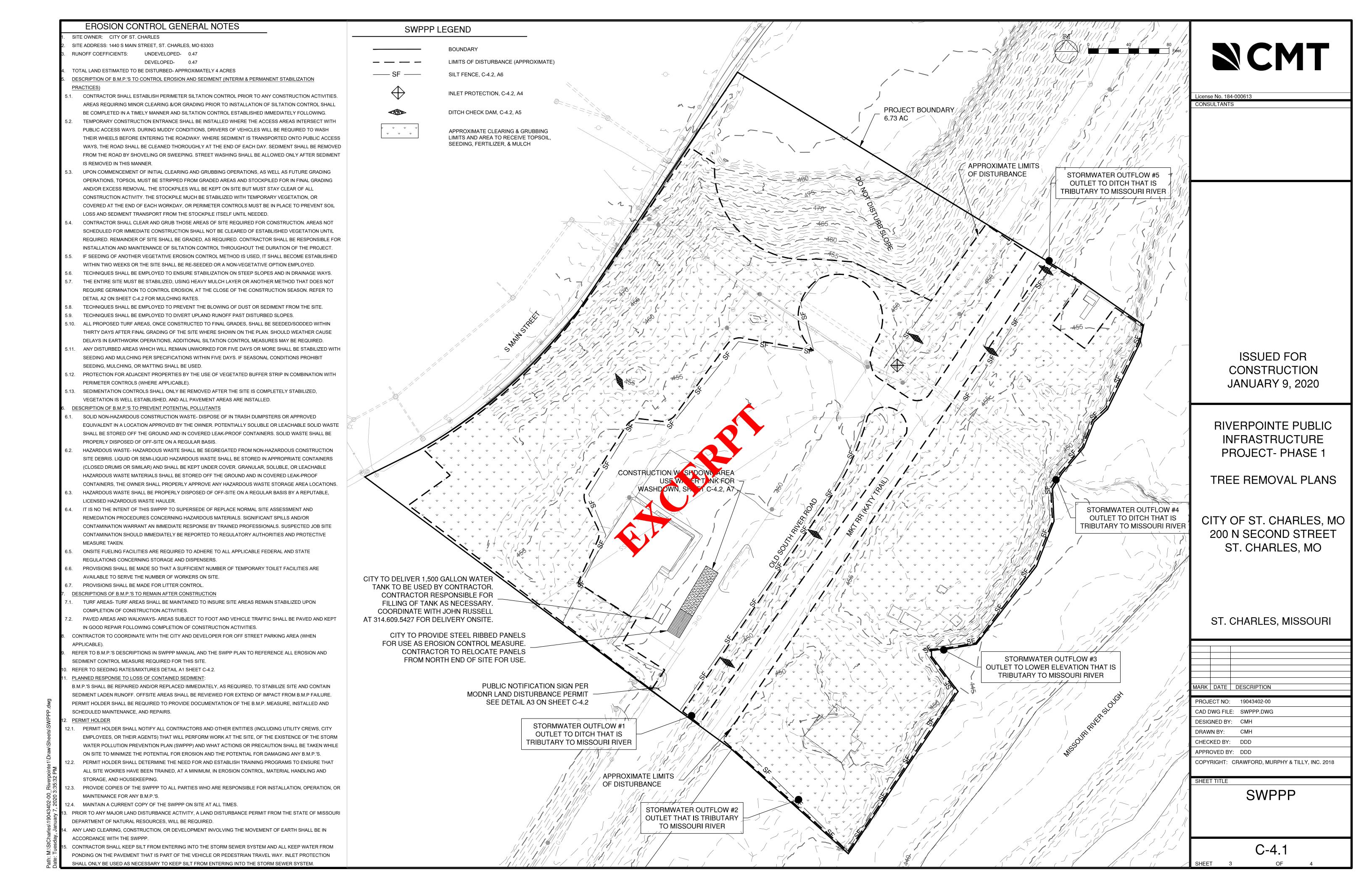
ST. CHARLES, MO 63301

CONTACT: JOHN PHILLIPS

**DENNIS KELLY** 

(636)949-3550

CONTACT: JOHN DANOWSKI john.danowski@charter.com



#### **LEGEND**

CONTOURS

SPOT GRADE

TREE LINE

TREE

BUSH

STORM MANHOLE

AREA INLET

CURB INLET

GRATED INLET

FLARED END SECTION STORM SEWER

GRATED MANHOLE STORM DESIGNATOR

DOWNSPOUT DRAINAGE PIPE SWALE/SLOPE INDICATOR SANITARY MANHOLE

SANITARY SEWER CLEAN OUT SANITARY DESIGNATOR

UTILITY POLE GUIDE WIRE OVERHEAD UTILITY

UNDERGROUND ELECTRIC ELECTRIC MARKER ELECTRIC METER ELECTRIC BOX ELECTRIC PULL BOX ELECTRIC TRANSFORMER ELECTRIC MANHOLE UNDERGROUND TELEPHONE FIBER OPTIC MARKER GAS LINE GAS VALVE GAS METER

GAS MARKER WATER LINE WATER VALVE WATER METER FIRE HYDRANT

SIGN MAIL BOX TEST HOLE LIGHT STANDARD FENCE BOLLARD

RETAINING WALL CONCRETE PAVEMENT SILTATION FENCE AIR CONDITIONER FLAG POLE MONITORING WELL PARKING METER PLANTER SPRINKLER CONTROL BOX SPRINKLER TRAFFIC POLE YARD LIGHT GUARD RAIL PROPERTY LINE SETBACK INLET PROTECTION

EXISTING

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PROPOSED

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-ou-

## SOUTH MAIN STREET PROPERTY

CITY REVISIONS 12/8/2017

A TRACT OF LAND BEING PART OF LOT 57 IN BLOCK 9 OF STEEN & CUNNINGHAM'S SURVEY OF THE COMMONS OF ST. CHARLES AND LOTS 5 AND 6 IN BLOCK 1 OF EVANS SURVEY OF THE ST. CHARLES COMMONS **TOWNSHIP 46 NORTH, RANGE 5 EAST** CITY OF ST. CHARLES, ST. CHARLES COUNTY, MISSOURI

### MASS GRADING PLANS

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C4.1	SWPPP	Г	П	П		Г
C4.2	SWPP DETAILS					

LOCATION MAP

PERTINENT DATA

WNER =	CITY OF ST. CHARLES
TE ADDRESS =	MAIN STREET
	ST. CHARLES, NO 63303
ITE ACREAGE =	4.10± AC
isturbed land =	
XISTING ZONING =	C-2, R-1E
ROPOSED ZONING=	C-2, R-1E
CHOOL DISTRICT =	ST. CHARLES
UNNENDERC'S =	PG. 49 GRID CC-19
WIERSHED =	MISSOURI RIVER
EMA MAP PANEL =	29183C288 G

# CHECK DAM USE IN PLACE TO BE REMOVED ADJUST TO GRADE BE REMOVED & RELOCATED TO SCALE HIGH PION TO SCALE HIGH PION TO SCALE HIGH PION TO SCALE LOW POINT IN GRADE LOW POINT IN GRADE LOW FOR PION TO SCALE BOTTOM OF WALL NOT IN CONTRACT

WATTLE CHECK DAM

BENCHMARK BENCHMARK INFORMATION: CITY OF ST. CHARLES SURVEY DISK STAMPED CSC 04 2003, NAVD88 ELEVATION OF 582.77 US FT.

## UTILITIES

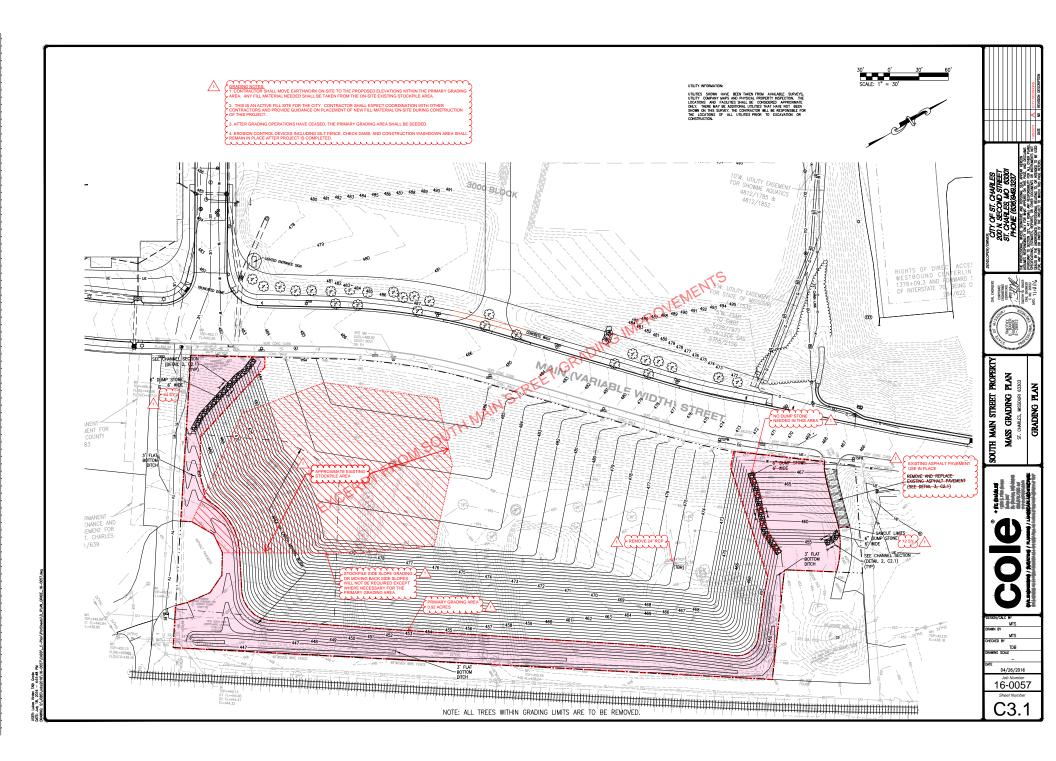


MASS GRADING PLAN ST. CHARLES, MISSOURI 63303

SOUTH MAIN STREET

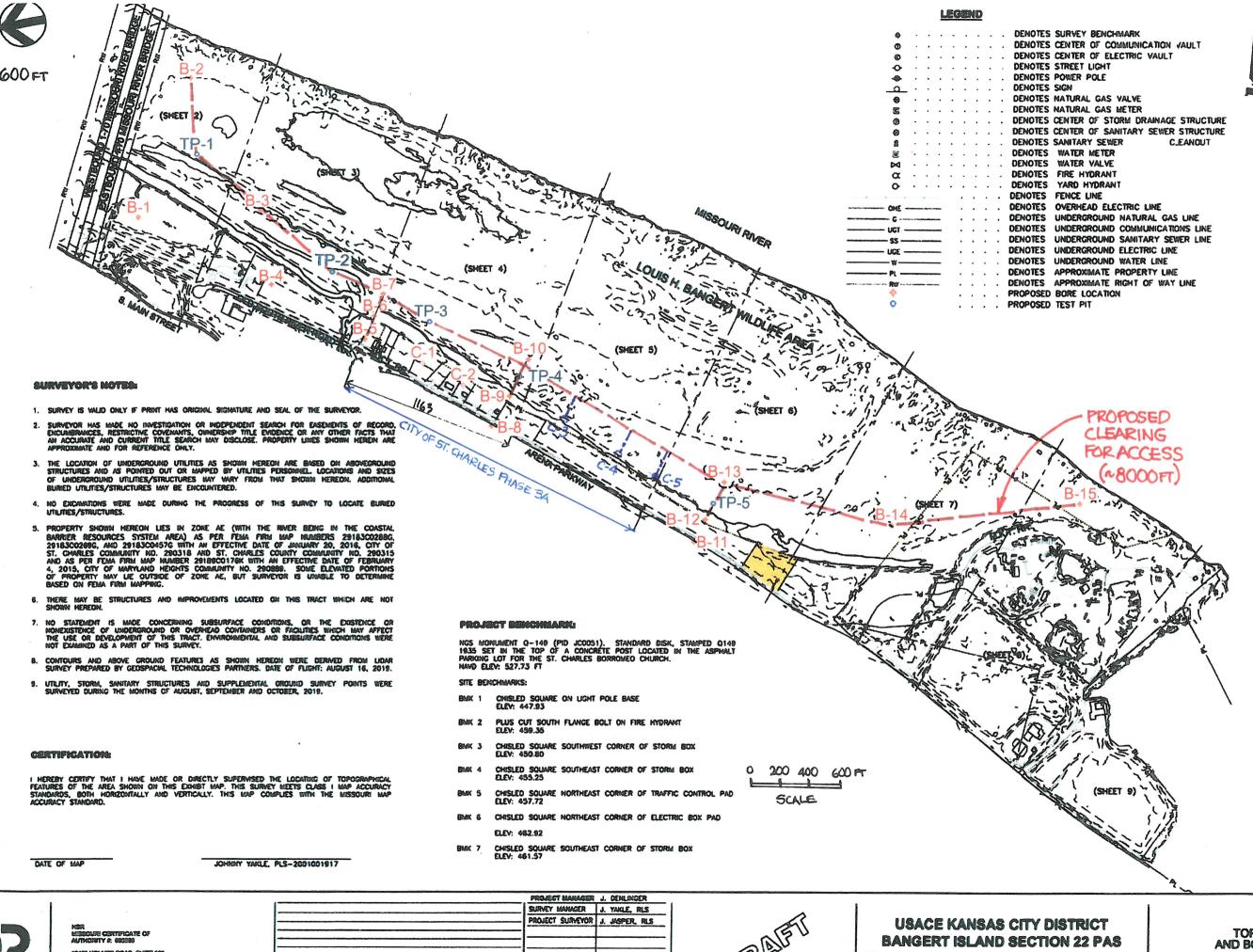
MTS TDB TNG SCALE

04/26/2016 16-0057

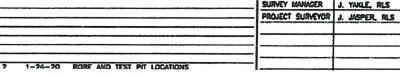


Trail Closure Info: South River Road Bangert Island Directions: (636) 707-0011 1704 S. River Road From I-70 go south on South Fifth Fifth St./S. River Rd. St. Charles, MO 63303 To sign-up for alerts or /Street for 0.5 mi. Turn left on use the free app click Bangert Island is Old South River Rd. to on Rainout Line at www.stccparks.org 160 acres in size. entrance (along Katy Trail). 0 South Main Old South Arena River Road Pkwy South River Road Katy Trail LEGEND Slough Loop 1.5mi -⊚-⊙-⊙-Sandy Link 0.3 mi -★-★ ★ Kurtz Loop 1.0 mi ----River Link 0.4 mi Scan QR Code MISSOURI RIVER To View Map or visit sccmo.org







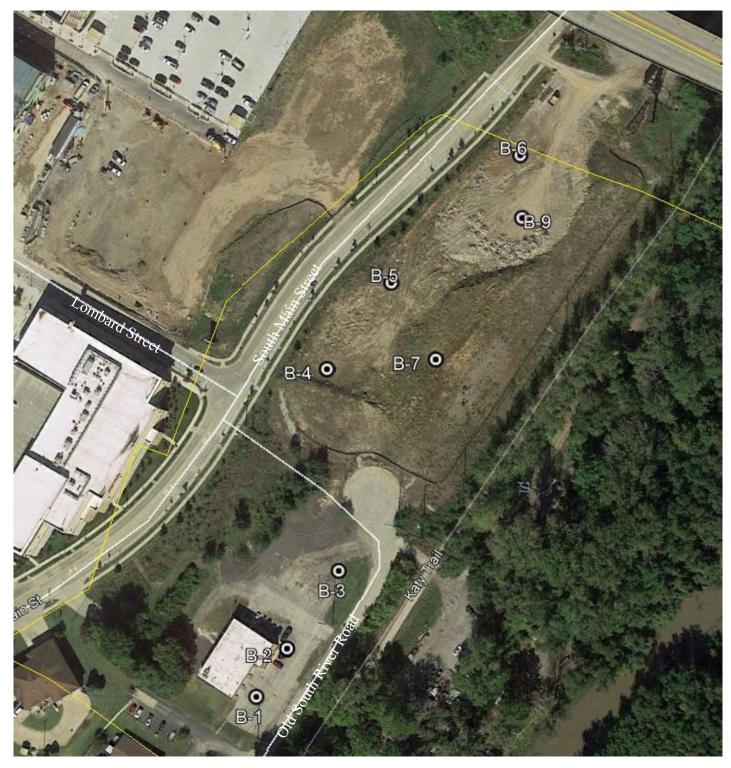




Flood Risk and Riverfront Transformation CT ALLADI EC MICCAIDI

TOPOGRAPHIC SURVEY AND BORINGS LOCATION MAP

VICINITY MAP



Note: Date of Google Earth  $^{\text{TM}}$  photo is October 16, 2018.

Approximate Scale: 1 inch = 140 feet

St. Charles Riverpointe, Phase 1 – Mass Fill Site AERIAL VIEW OF SITE AND APPROXIMATE LOCATIONS OF BORINGS

Figure 1 REITZ & JENS, INC.

## REPORT 2019011217

## PRELIMINARY GEOTECHNICAL INVESTIGATION FOR RIVERPOINTE, PHASE 1 – MASS FILL SITE ST. CHARLES, MISSOURI

### Prepared for

City of St. Charles, Missouri

Prepared by

REITZ & JENS, INC.

January 3, 2020

The Professional whose signature and personal seal appear hereon assumes responsibility only for what appears in the attached report and disclaims (pursuant to Section 327.411 RSMo) any responsibility for all other plans, estimates, specifications, reports, or other documents or instruments not sealed by the undersigned Professional relating to or intended to be used for any part or parts of the project to which this report refers.



1055 corporate square drive st. louis, missouri 63132 phone: 314.993.4132

fax: 314.993.4177 www.reitzjens.com

January 3, 2020

City of St. Charles, Missouri 200 N. Second Street St. Charles, Missouri 63301-2851

Attention: Mr. Daniel Mann, P.E.

Assistant City Engineer – Development

Department of Engineering

RE: Report of Preliminary Geotechnical Investigation for

Riverpointe Development, Phase 1 – Mass Fill Site

St. Charles, Missouri

This report presents our findings and recommendations from our preliminary geotechnical investigation of the mass fill site along the southeast side of South Main Street, immediately upstream of the eastbound I-70 bridge over the Missouri River. This area will be part of the Riverpointe Development. The purposes of this preliminary investigation are to characterize the mass fill that has been placed on this portion of the 20-acre site and to make general recommendations for the further development of the full site. The investigation was done under Rotta Jens's Engineering Services Contract (2019-09-30) with the City of St. Charles, Missouri ("City") which was signed October 9, 2019. Subsequent geotechnical investigations will be required once specific she improvement plans have been developed.

#### SITE DESCRIPTION

The site for this investigation includes about 5 acres, from the southeast end of Lombard Street to an access drive along the I-70 eastbound bridge, and from South Main Street to the Katy Trail. An aerial photo of the site is reproduced in Figure 1. This photo is dated October 16, 2018. The site has changed drastically since then. The City has been stockpiling fill and demolition debris on the site since about October 2018, and has had Gershenson Construction Company periodically spread the materials over the site with a dozer. Some early piles of fill are visible in Figure 1. Gershenson has not been compacting the materials other than tracking with the dozer. The top of the fill is now about even with South Main Street (el 480 to 485) from Lombard Street and about 300 feet toward the northeast. While South Main Street drops in elevation toward the I-70 bridge to about el. 468, the existing fill remains relatively level, such that there is a steep slope, about 10 feet or more in height, at the northeast end (just past Boring B-6 in Figure 1). The relatively flat portion of the fill is generally covered with soil, with some exposed concrete and asphalt concrete rubble. As observed periodically by Reitz & Jens, some piles of materials were placed during October and November which contained large precast concrete, large asphalt debris, wood, plastic conduit, tree limbs, and bags of topsoil and straw. The lower northeast end of the site (by the I-70 bridge) was initially covered with large concrete rubble and was impassable. When our borings were done in late November, the site had been generally leveled, with some piles around the north end. Borings B-4, B-7 and B-9 were drilled close to the south and east limits of the level fill area.

City of St. Charles, Missouri Report of Preliminary Geotechnical Investigation for Riverpointe Development, Phase 1 – Mass Fill Site

It appears that the original ground surface along Old South River Road and the Katy Trail is at about el. 450 to 453. Therefore, there is now up to about 35 feet of fill over this portion of the site. The original embankment for South Main Street is visible in the photo in Figure 1. So, a portion of the fill in the vicinity of Borings B-4 and B-5 is part of this original embankment fill.

The remainder of the 20-acre site extends to the south along Old South River Road. Some of the stockpiled file will be placed in this area. Borings B-1, B-2 and B-3 were made in this area along Old South River Road, as shown in Figure 1. The building visible in Figure 1 had been recently demolished when our borings were made. The rubble from the building was left on site.

#### PROJECT DESCRIPTION

The long-term plan is to move some of the fill material to the properties to the southwest, and that the general grade will be about 3 feet above the 500-year flood level of the Missouri River, or about el. 458. A conceptual plan for Phase 1 is reproduced in Figure 1A. The site which is the subject of this investigation is between South Main Street along the northwest side to 2d South River Road and the Katy Trail along the southeast side. The conceptual plan shows a large, multi-story building along the north side of the extension of Lombard Street. Smaller buildings are planned along the southeast side of South Main Street, with surface parking along the riverside of these buildings and at the northeast end of the site along the I-70 bridge.

#### FIELD INVESTIGATION

The borings were completed on November 26 and 27, 2019, by Midwest Drilling, Inc. under a subcontract with Reitz & Jens. The torings were made with a CME 550 ATV-mounted drill rig. The rig is equipped with an automatic Standard Fenetration Test (SPT) hammer. The borings were advanced using 4.25-inch diameter solid-stem continuous-flight augers (CFA) or 2.25-inch I.D. continuous-flight hollow-stem augers (HSA).

The borings were staked price drilling by Reitz & Jens. However, because the final grading extended the level area of the fill, the borings were relocated. Boring B-8 was omitted. The borings were located using a hand-held GPS with an accuracy of about ±15 feet. The elevation of the ground surface at the borings were surveyed with a level and rod by Reitz & Jens and using temporary benchmarks set by HDR Engineering, Inc. for the USACE Kansas City District's evaluation of the Bangert Island Riverfront Transformation Project.

Reitz & Jens had a geotechnical engineer in the field to direct the investigation, collect samples, and log the borings. The drilling and sampling were done in general accordance with ASTM procedures. All of the borings were completed to the planned depth of 35 feet. Auger or sampler refusal on rubble occurred in Boring B-4 at 21.7 feet; the boring was offset 8 feet and was re-drilled. The borings were logged in the field based upon cuttings, drilling characteristics and recovered samples. The boring logs were subsequently modified as appropriate based on laboratory test results. The boring logs are presented in Figures 2-1 through 2-8. The key to the boring logs and notes are presented in Figure 2-0.

Samples of subsurface soils were obtained at about 5-foot intervals. Samples were taken using either: 1) a hydraulically pushed, 3-inch O.D., thin-wall Shelby tube sampler in general accordance with ASTM