Public Notice

US ARMY CORPS OF ENGINEERS
St. Louis District
Gateway to Excellence

Reply To:
U.S. Army Corps of Engineers
Attn: CEMVS-OD-F
1222 Spruce Street
St. Louis, Missouri 63103-2833

Public Notice No.
P-2978
Public Notice Date
December 2, 2016
Expiration Date
December 23, 2016

Postmaster Please Post Conspicuously Until:

File Number: MVS-2015-727

Interested parties are hereby notified that an application has been received for a Department of the Army permit for certain work in waters of the United States, as described below and shown on the attached maps.

COMMENTS AND ADDITIONAL INFORMATION: Comments on the described work should reference the U.S. Army Corps of Engineers File Number shown above and must reach this office no later than the above expiration date of the Public Notice to become part of the record and be considered in the decision. Comments should be mailed to the following address:

U.S. Army Corps of Engineers
Regulatory Branch
1222 Spruce Street
St. Louis, Missouri 63103-2833
ATTN: Jaynie Doerr

APPLICANT: City of St. Peters, One St. Peters Centre Boulevard, St. Peters, Missouri 63376. Phone: (636) 477-6600.

LOCATION: The City has named the project *#P-20 Parkdale/Blackwood Channel Improvements.* Within the City of St. Peters, take Mid Rivers Mall Drive south and turn west onto Parkdale Lane. More specifically, it is located in Section 36, Township 47 North, Range 3 East, St. Charles County (see attached location map). It is located immediately upstream of a previous biostabilization project, named P-5, permitted by our office as P-2488.

PROJECT DESCRIPTION: The purpose of the project is to relieve flooding, alleviate erosion and improve water quality in the area of Blackwood Lane and Parkdale Lane in St. Peters. This project is referred to as the P-20 Blackwood-Parkdale Stormwater Channel Improvement. The City desires to construct these improvements to provide flooding relief as recommended in the City's Stormwater Master Plan. This project includes channel improvements to two reaches, which include: removal of existing concrete flume, installation of rock grade controls, improvements to existing storm water pipe discharges into channels, creation of low flow channels, regraded stable banks, increased and creation of riparian corridor buffers and perpetual stewardship by the City.

This project consists of two open channels. The Blackwood and Parkdale channels will be reconstructed to reduce frequent flooding in the adjacent residential properties, stabilize active erosion and create a native riparian corridor and buffer. The project improvements will be within existing or new permanent drainage easements acquired from the affected property owners. The City will provide stewardship on the native corridors. Approximately 1,625 linear feet (LF) of Blackwood channel will be improved by the removal of the existing concrete swale, constructing a channel bed of native soil material, installation of rock grade control structures, energy dissipation treatments at ends of the existing stormwater discharge pipes, creation of a 5-foot wide low flow channel, regrade stable banks, rolled erosion control products, relocation of existing fences further back from channel to provide wider channel buffer and restoration with native vegetation. The Blackwood channel conveys more flow and homeowners along the norther portion of the channel have experienced flooding issues. Existing condition models show discharges from the 2-year to the 100-year 20-minute event overtopping the banks causing flooding to the homeowners. This channel has an existing concrete flume along the channel bed, the concrete is broken and undermined in most areas and there is erosion along both banks. The improvements to this channel will increase capacity, and discharges up to the 100-year 20-minute event (headwater flows) will generally stay within the channel (per the applicant).

Approximately 1,090 LF of the Parkdale channel will be improved which will include a constructed channel bed of native soil material, energy dissipation treatments at ends of stormwater pipes, creation of a 5-foot wide low flow channel, regraded stable banks and construction of a modular block wall on the right descending bank, rolled erosion controls products, relocation of existing fences further back from the channel to provide wider channel buffers restored with native vegetation. This channel carries significant flow during storm events which has caused flooding to adjacent homeowners. The improvements will increase capacity and the proposed channel improvements are modeled to contain all discharges from 2-year to 100-year 20-minute event headwater flows as well.

The entire project area will be planted as a native corridor along with the City acquiring permanent drainage easements over the improvements. This will provide the long-term management necessary for planting and overall project success.

The project is designed to include biotechnical techniques and to improve overall water quality to the impacted tributary and downstream tributaries. Mitigation has been accomplished through avoidance, minimization, and biotechnical applications within this design. Additionally, the stream improvement project is contingent upon the City of St. Peters acquiring the necessary easements and permission from all affected subdivision property owners.

LOCATION MAPS AND DRAWINGS: See Sheets 1-13, attached.

ADDITIONAL INFORMATION: Additional information may be obtained by contacting Jaynie Doerr, Project Manager, U.S. Army Corps of Engineers, at (314) 331-8581. Your inquiries may also be sent by electronic facsimile to (314) 331-8741 or by e-mail to Jaynie.g.doerr@usace.army.mil.

AUTHORITY: This permit will be processed under Section 404 of the Clean Water Act (33 U.S.C. 1344).

WATER QUALITY CERTIFICATION: The project plans have been submitted to the Missouri Department of Natural Resources, Water Protection Program for state certification of the proposed work in accordance with Section 401 of the Clean Water Act. The certification is requested as of the date of this Public Notice, and if issued, will express the Agency's opinion that the proposed activities will not violate applicable water quality standards. Written comments concerning possible impacts to waters of Missouri should be addressed to: Water Protection Program, Post Office Box 176, Jefferson City, Missouri 65102-0176, with a copy provided to the Corps of Engineers.

SECTION 404 (b)(1) EVALUATION: The impact of the activity on the public interest will be evaluated in accordance with the Environmental Protection Agency guidelines pursuant to Section 404 (b)(1) of the Clean Water Act.

PUBLIC HEARING: Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the applicant's proposal. Any request for a public hearing shall state, with particularity, the reason for the hearing, and must be based on issues that would warrant additional public review.

ENDANGERED SPECIES: A preliminary determination, in compliance with the Endangered Species Act, as amended, has been made that the work that is proposed would not affect species designated as threatened or endangered, or adversely affect critical habitat. Therefore, no formal consultation request has been made to the United States Department of Interior, Fish and Wildlife Service. In order to complete our evaluation, comments are solicited from the Fish and Wildlife Service and other interested agencies and individuals through this Public Notice.

CULTURAL RESOURCES: The St. Louis District has done a preliminary evaluation based on information provided by the State Historic Preservation Officer. Based on this evaluation and the fact that the projects are located within existing residential subdivisions with previously modified tributaries, additional reconnaissance surveys might not be required. However, if substantial information from the response to public notice indicates that further investigation is necessary the USACE will re-consider its decision.

EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the described activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit that may reasonably be expected to accrue from the described activity must be balanced against its reasonably foreseeable detriments. All factors, which may be relevant to the activity described, will be considered including the cumulative effects. Among factors considered are: conservation; economics; aesthetics; general environmental concerns; wetlands; historic properties; fish and wildlife values; flood hazards; flood plain values; land use; navigation; shoreline erosion and accretion; recreation; water supply and conservation; water quality; energy needs; safety; food and fiber production; mineral needs; consideration of property ownership; and in general the needs and welfare of the people.

SOLICITATION OF COMMENTS: The U.S. Army Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of the proposed activity. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on

endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

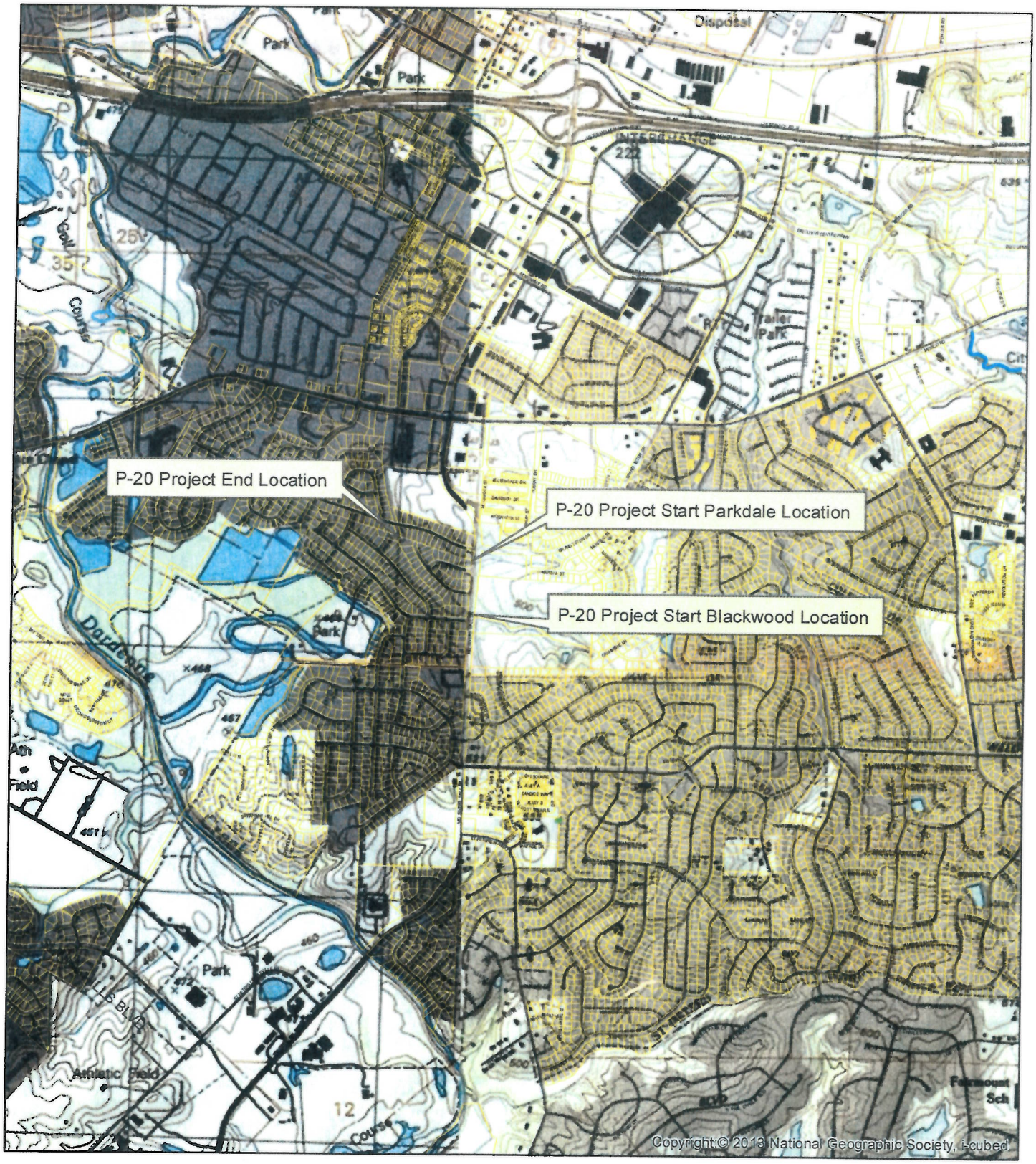
Danny D. McClendon

DANNY D. MCCLENDON
Chief, Regulatory Branch

Attachments

NOTICE TO POSTMASTERS:

It is requested that this notice be conspicuously and continually placed for 21 days from the date of this issuance of this notice.



P-20 STORMWATER IMPROVEMENT PROJECT
BLACKWOOD - PARKDALE CHANNEL
VICINITY MAP
USGS O'FALLON, MO QUADRANGLE

ST. PETERS, MISSOURI

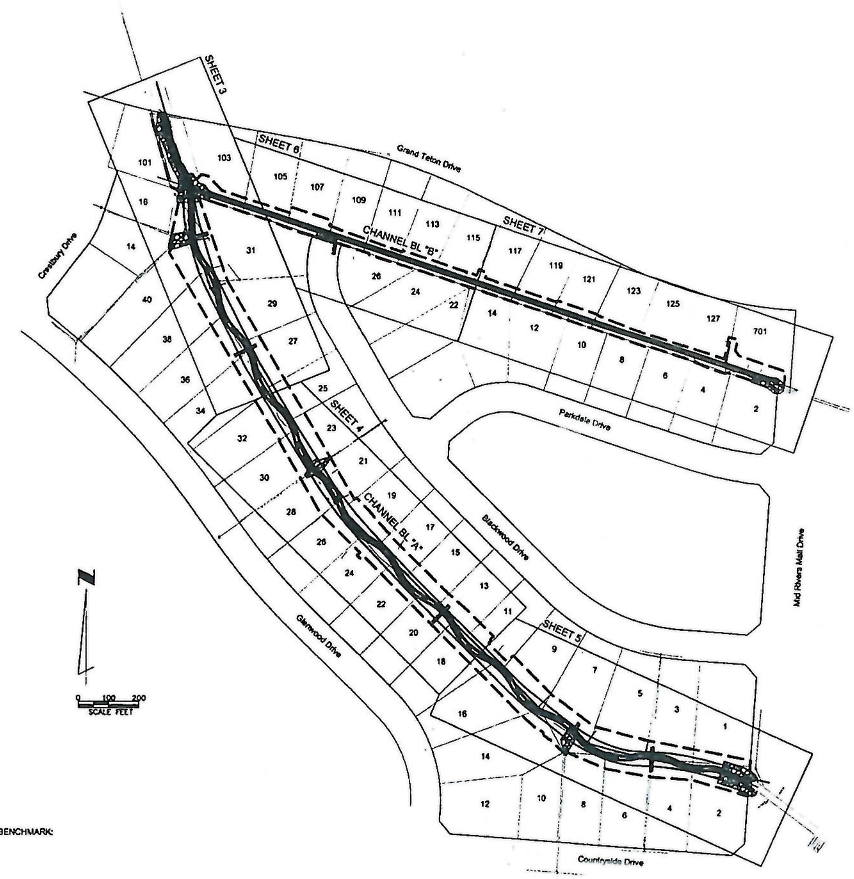
P-20 PARKDALE/BLACKWOOD CHANNEL IMPROVEMENTS

LEGEND

EXISTING		NEW
○	MANHOLE	●
	INLET	
	DOUBLE INLET	
	PIPE	
---X---X---	FENCE	—X—X—
— G —	GAS LINE	
— E —	ELECTRIC LINE	
— W —	WATER LINE	
— T —	TELEPHONE LINE	
	INDEX CONTOUR	—410—
	CONTOUR	
	FLOWLINE OF CREEK OR DITCH	
	GUARD RAIL	
	TREE	
	BUSH	
	HEDGE ROW	
GV	UTILITY METER OR VALVE	
PP	POWER POLE	
PP	POWER POLE & GUY	
	STREET SIGN	
	FIRE HYDRANT	
	LIGHT STANDARD	
	MAIL BOX	
VENT	HOUSE VENT	
	TRAFFIC SIGNAL	
	UTILITY BOX	
	CONTROL POINT	
	CONTROL POINT DESIGNATOR	
	TEST HOLE	
ATP	ARBORIST TREE PROTECTION	
BL	BASELINE	
EOP	END OF PIPE	
ECB	EROSION CONTROL BLANKET	
PDE	PERMANENT DRAINAGE EASEMENT	
RB	REVEGETATION BLANKET	
TBA	TO BE ABANDONED	
TBAF	TO BE ABANDONED AND FILLED	
TBR	TO BE REMOVED	
TBRR	TO BE REMOVED AND REPLACED	
TCE	TEMPORARY CONSTRUCTION EASEMENT	
UIP	USE IN PLACE	

NOTE:

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEREFORE; THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT PRESENTLY KNOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UTILITIES LOCATED IN THE FIELD PRIOR TO EXCAVATION OR CONSTRUCTION.



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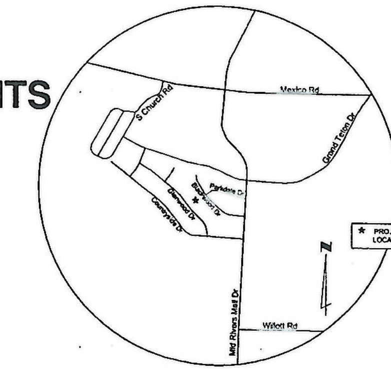

LOCATION MAP
NOT TO SCALE

INDEX

SHEET NO.	DESCRIPTION
1	Cover Sheet
2	Coordinate Table and Notes
3-7	Plan and Profile
8-20	Sections
21-22	Details

BEFORE YOU
DIG - DRILL - BLAST
1-800-344-7483
(TOLL FREE)
MISSOURI ONE CALL SYSTEM, INC.

Prepared by:
REITZ & JENS, INC.
CONSULTING ENGINEERS
1055 Corporate Square Drive
St. Louis, Missouri 63132
314.993.4132
Missouri Professional Engineering Corporation

St. Peters, Missouri
One St Peters Centre Blvd.
St. Peters, MO 63376
636.477.6600

P-20 Parkdale/Blackwood Channel Improvements

NO.	ISSUED FOR	DATE

DESIGNED BY: LWL
DRAWN BY: M.R.F.
CHECKED BY: LWL

ISSUE DATE: MONTH DD, YEAR

BASE MAP:

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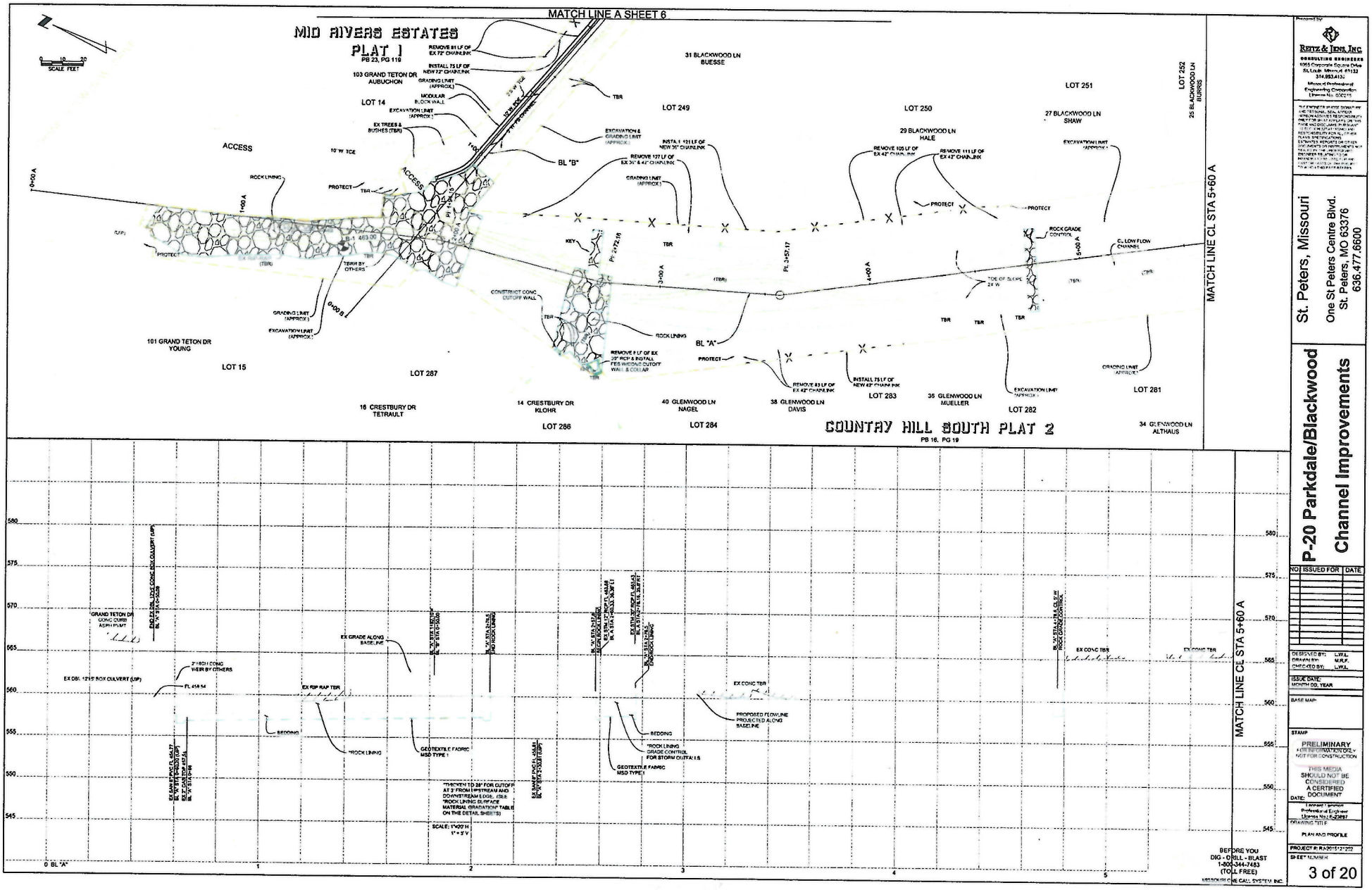
COVER

PROJECT #: RJ-2015121202

SHEET NUMBER
1 of 20



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One St Peters Centre Blvd.
St. Peters, MO 63376
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P-20 Parkdale/Blackwood Channel Improvements

NO	ISSUED FOR	DATE

DESIGNED BY: L.W.L.
DRAWN BY: M.R.F.
CHECKED BY: L.W.L.

ISSUE DATE: MONTH DD, YEAR

BASE MAP:

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DATE:

Leonard Jens
Professional Engineer
License No. E-24987

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PLAN AND PROFILE

PROJECT #: R.A.2015121222

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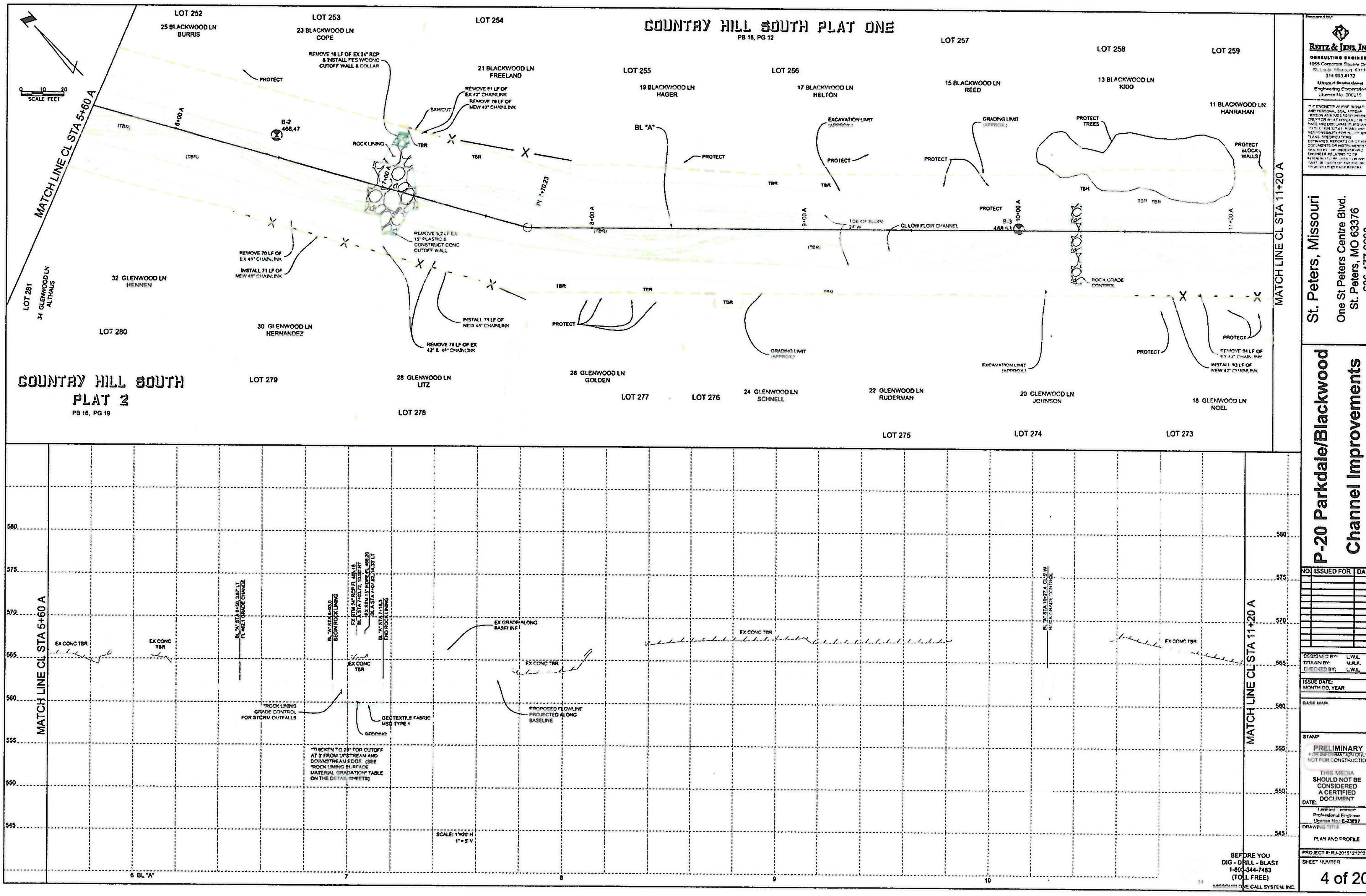
COUNTRY HILL SOUTH PLAT ONE
PB 16, PG 12
COUNTRY HILL SOUTH PLAT 2
PB 16, PG 19
MATCH LINE CL STA 5+60 A
MATCH LINE CL STA 11+20 A
LOT 252
25 BLACKWOOD LN BURRIS
LOT 253
23 BLACKWOOD LN COPE
LOT 254
21 BLACKWOOD LN FREELAND
LOT 255
19 BLACKWOOD LN HAGER
LOT 256
17 BLACKWOOD LN HELTON
LOT 257
15 BLACKWOOD LN REED
LOT 258
13 BLACKWOOD LN KIDO
LOT 259
11 BLACKWOOD LN HANRAHAN
LOT 281
34 GLENWOOD LN ALTHAUS
LOT 280
32 GLENWOOD LN HENNEN
LOT 279
30 GLENWOOD LN HERNANDEZ
LOT 278
28 GLENWOOD LN LITZ
LOT 277
26 GLENWOOD LN GOLDEN
LOT 276
24 GLENWOOD LN SCHNELL
LOT 275
22 GLENWOOD LN RUDERMAN
LOT 274
20 GLENWOOD LN JOHNSON
LOT 273
18 GLENWOOD LN NOEL
PROTECT
B-2 466.47
B-3
BL "A"
ROCK LINING
SAWCUT
TBR
REMOVE 16 LF OF EX 24" RCP & INSTALL FES W/CONC CUTOFF WALL & COLLAR
REMOVE 81 LF OF EX 42" CHAINLINK
REMOVE 78 LF OF NEW 42" CHAINLINK
REMOVE 70 LF OF EX 48" CHAINLINK
INSTALL 71 LF OF NEW 48" CHAINLINK
REMOVE 5.2 LF EX 15" PLASTIC & CONSTRUCT CONC CUTOFF WALL
INSTALL 71 LF OF NEW 48" CHAINLINK
REMOVE 78 LF OF EX 42" & 48" CHAINLINK
PI 7+70.23
EXCAVATION LIMIT (APPROX)
GRADING LIMIT (APPROX)
TOE OF SLOPE
CL LOW FLOW CHANNEL
ROCK GRADE CONTROL
PROTECT TREES
PROTECT BLOCK WALLS
INSTALL 93 LF OF NEW 42" CHAINLINK
6+00 A
7+00 A
8+00 A
9+00 A
10+00 A
11+00 A
SCALE FEET
EX CONC TBR
BL "A" STA 6+50, 3.8' LT FL 462.1 GRADE CHANGE
BL "A" STA 6+93.0 BEGIN ROCK LINING
EX STM 24" RCP FL 466.16
BL "A" STA 7+43.3 END ROCK LINING
EX GRADE ALONG BASELINE
BL "A" STA 10+27.4 CL S.W ROCK GRADE CONTROL
"ROCK LINING GRADE CONTROL FOR STORM OUTFALLS
GEOTEXTILE FABRIC MSD TYPE 1
BEDDING
"THICKEN TO 2.0' FOR CUTOFF AT 3' FROM UPSTREAM AND DOWNSTREAM EDGE (SEE "ROCK LINING SURFACE MATERIAL GRADATION" TABLE ON THE DETAIL SHEETS)
PROPOSED FLOWLINE PROJECTED ALONG BASELINE
SCALE: 1"=20' H 1"= 5' V
580
575
570
565
560
555
550
545
6 BL "A"
7
8
9
10
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CONSULTING ENGINEERS
St. Peters, Missouri
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St. Peters, MO 63376
636.477.6600
P-20 Parkdale/Blackwood
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DRAWN BY: WPF
CHECKED BY: LWL
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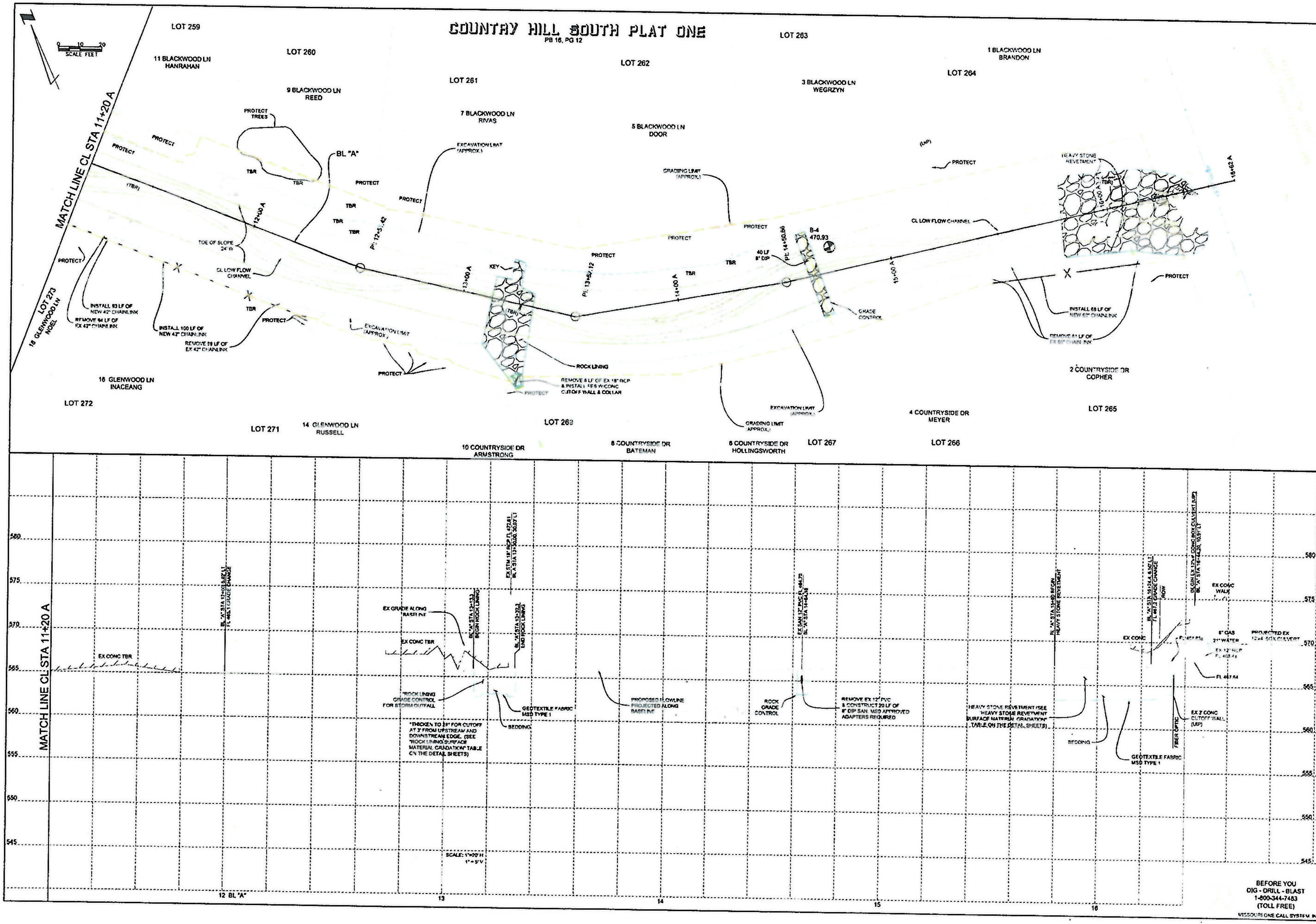

Prepared by:

REITZ & JENS, INC.

CONSULTING ENGINEERS

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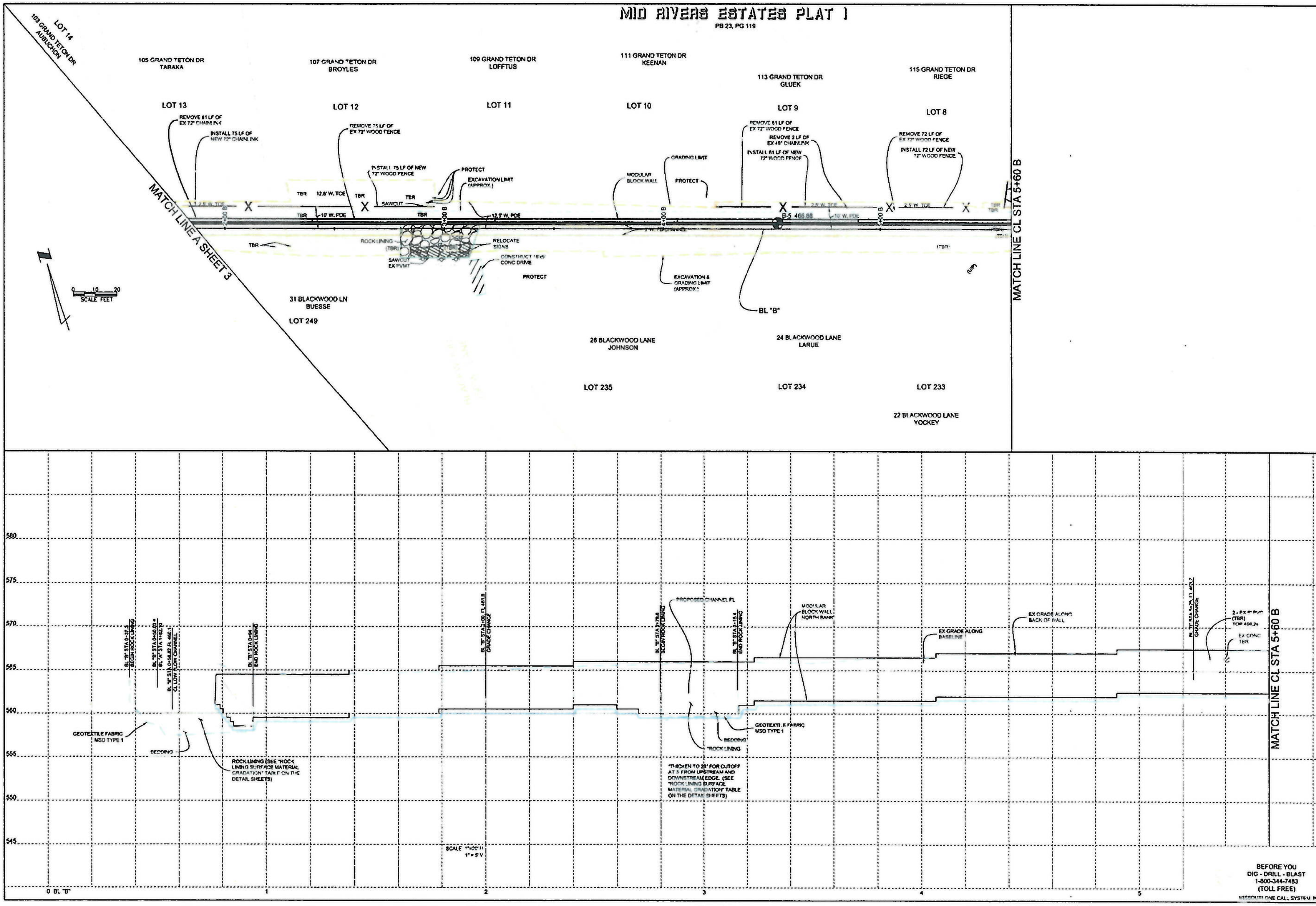

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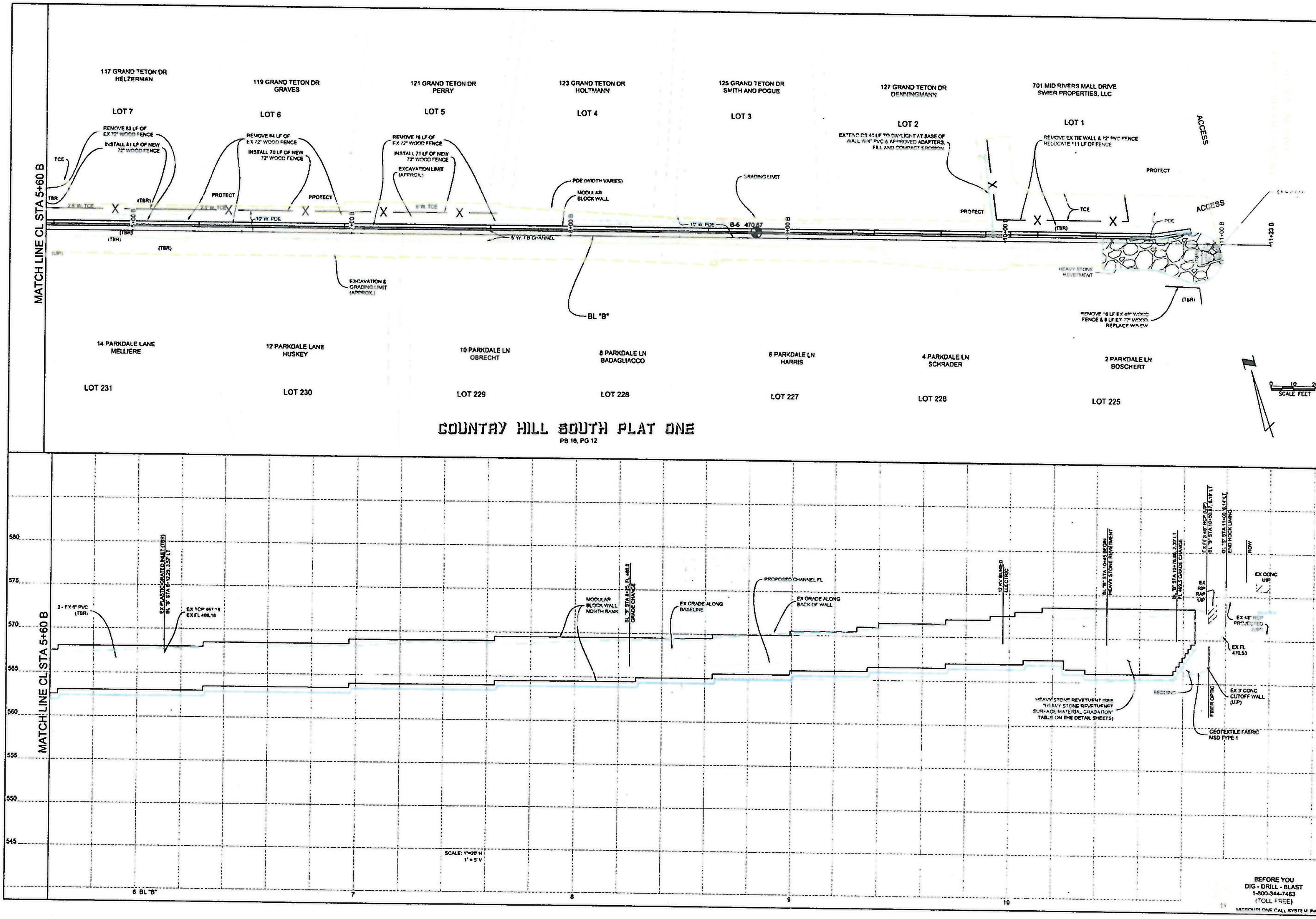

St. Peters, Missouri

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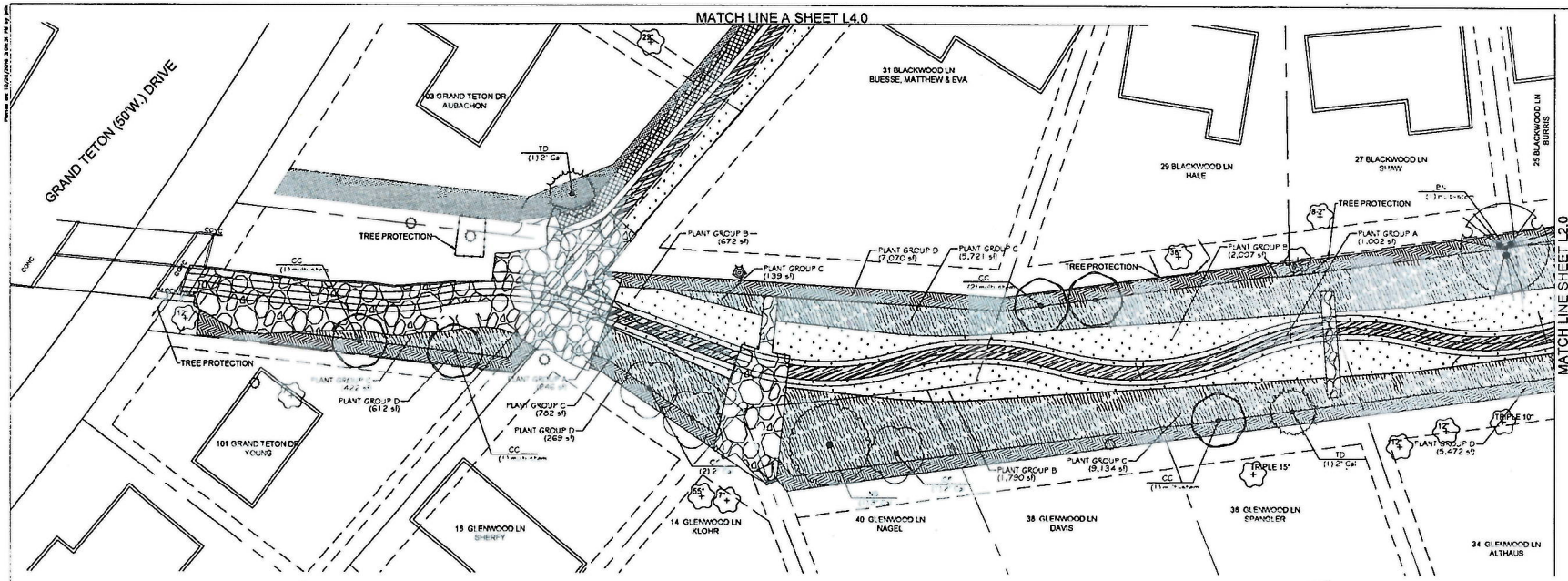


PLANT SCHEDULE BRANCH A

PLANT GROUP A	**6,610 SF**		
SWALE BOTTOM			
CAREX COMOSA / BOTTLEBRUSH SEDGE	611	20% 3" Plug 18" oc	
CAREX CRINITA / CATERPILLAR SEDGE	611	20% 3" Plug 18" oc	
CAREX GRAYI / MORNING STAR SEDGE	611	20% 3" Plug 18" oc	
JUNCUS EFFUSUS / SOFT RUSH	1,222	40% 3" Plug 18" oc	
PLANT GROUP B	**24,570 SF**		
SWALE SIDES			
CAREX MUSKINGUMENSIS / PALM SEDGE	4,540	40% 3" Plug 18" oc	
CAREX VULPINOIDEA / BROWN FOX SEDGE	3,972	35% 3" Plug 18" oc	
JUNCUS EFFUSUS / SOFT RUSH	2,838	25% 3" Plug 18" oc	
PLANT GROUP C	**33,439 SF**		
SWALE BUFFER			
BOUTELOUA GRACILIS 'BLONDE AMBITION' / BLUE GRAMA	6,688 SF	20% - Seed Mix	
COREOPSIS LANCEOLATA / LANCELEAF TICKSEED	3,344 SF	10% - Seed Mix	
ECHINACEA PURPUREA / PURPLE CONEFLOWER	3,344 SF	10% - Seed Mix	
RUDBECKIA HIRTA / BLACK-EYED SUSAN	3,344 SF	10% - Seed Mix	
SCHIZACHYRIUM SCOPARIUM 'THE BLUES' / LITTLE BLUESTEM	8,360 SF	25% - Seed Mix	
SPOROBOLUS HETEROLEPIS / PRAIRIE DROPSEED	8,360 SF	25% - Seed Mix	
PLANT GROUP D	**14,937 SF**		
PROPERTY BUFFER			
BOUTELOUA GRACILIS 'BLONDE AMBITION' / BLUE GRAMA	2,981	30% 1 QL 15" oc	
CAREX ALBICANS / WHITETINGE SEDGE	3,478	35% 4" Pot 15" oc	
CAREX GLAUCA 'BLUE ZINGER' / BLUE ZINGER SEDGE	3,478	35% 4" Pot 15" oc	

TREE PROTECTION NOTES:

1. All trees indicated on plans to be within a tree protection zone shall receive construction fence protection as shown in detail 2 on sheet L6.0.
2. No equipment shall operate inside the protective fencing, including during fence installation and removal.
3. No storage of any materials shall be allowed inside the protective fencing.
4. Adjustments in tree protection fence during construction to be approved by City of Saint Peters Staff.

PROPOSED TREE PROTECTION ZONE

PLANT SCHEDULE BRANCH A

TREES	CODE	BOTANICAL NAME / COMMON NAME	CAL	CONT	HGT	QTY
	BN	BETULA NIGRA 'HERITAGE' / HERITAGE RIVER BIRCH	MULTI-STEM	B+B	6 FT.	4
	CC	CERCIS CANADENSIS / EASTERN REDBUD MULTI-TRUNK	MULTI-STEM	B+B	6 FT.	12
	CF	CORNUS FLORIDA / EASTERN DOGWOOD	2" CAL	B+B		10
	NS	NYSSA SYLVATICA / SOUR GUM	3" CAL	B+B		3
	OV	OSTRYA VIRGINIANA / AMERICAN HOPHORNBEAM	3" CAL	15 GAL.		2
	TD	TAXODIUM DISTICHUM 'SHAWNEE BRAVE' TM / BALD CYPRESS	2" CAL	B+B		2

PLANT SCHEDULE BRANCH B

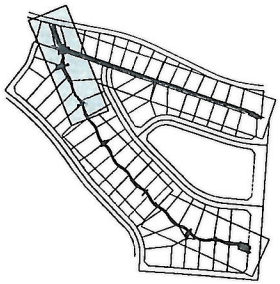
TREES	CODE	BOTANICAL NAME / COMMON NAME	CAL	CONT	QTY
	TD	TAXODIUM DISTICHUM 'SHAWNEE BRAVE' TM / BALD CYPRESS	2" CAL	B+B	

GENERAL LANDSCAPE NOTES:

1. Plant locations are to be staked in the field. The location of all plant material shall be approved by the Landscape Architect prior to installation. Notify the Landscape Architect a minimum of 2 days prior to planting. Do not dig holes for planting material until staked locations have been approved.
2. Contractor shall verify plant quantities. Any discrepancies shall be reported to the Landscape Architect. If a conflict arises between the plan drawings and the written plant schedule, the written plant schedule shall prevail.
3. The contractor shall obtain all necessary permits pertaining to construction.
4. Underground facilities, structures and utilities have been plotted from available surveys and records. Locations and quantities are approximate and shall be the contractor's responsibility to determine of verify their existence and exact location and avoid any damage.
5. The contractor is responsible for the location and protection of all underground utilities during the landscape installation.
6. Notify Missouri Dig-Rite (1-800-344-7483) a minimum of 72 hours prior to digging.
7. Report any discrepancies found with regard to existing conditions or proposed design immediately to the Landscape Architect.
8. Do not willfully proceed with construction as designed where it is found that known discrepancies exist. The contractor shall assume full responsibility for all necessary revisions due to failure to give such notification.
9. Refer to civil drawings for underground utility locations.
10. Refer to civil drawings for grading information.
11. Any and all areas disturbed by construction activities - whether shown on the drawings or occurring in the field - are to be restored with turf sod.

PLANTING SOILS NOTES AND SPECIFICATIONS:

1. Planting soil shall be a prepared soil by a reputable local nursery or similar source.
2. Planting soil shall be free of stones, stumps, roots or other woody material over 1 inch in diameter. For best results, brush or seeds from noxious weeds, such as Johnson Grass, Mugwort, Nutsedge and Canadian Thistle should not be present in the soils.
3. pH range shall be 5.5 - 6.5.
4. Organic matter shall be 3% minimum, 10% maximum by volume.
5. Planting soil shall be installed with all new plantings.
6. Excavate existing soil from proposed planting areas to a depth as required by plant, but not less than 10 inches, and stockpile for removal from site.
7. As much as possible, do not remove soil within a 10 foot radius of existing trees to remain.
8. Subgrade preparation: scarify subgrade to a minimum depth of 4 inches. Remove stones larger than 1.5 inches in any dimension.
9. All planting beds are to be topped with leaf mulch at 3 inch depth.
10. Contractor shall install planting soil as indicated on project plans and details.



Sheet Location Plan
1"=300'

BEFORE YOU DIG - DRILL - BLAST
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MISSOURI ONE CALL SYSTEM, INC.

Prepared by
DGD Design

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636.477.6600

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DRAWN BY: JW
CHECKED BY: KD

ISSUE DATE
12/21/18

STAMP

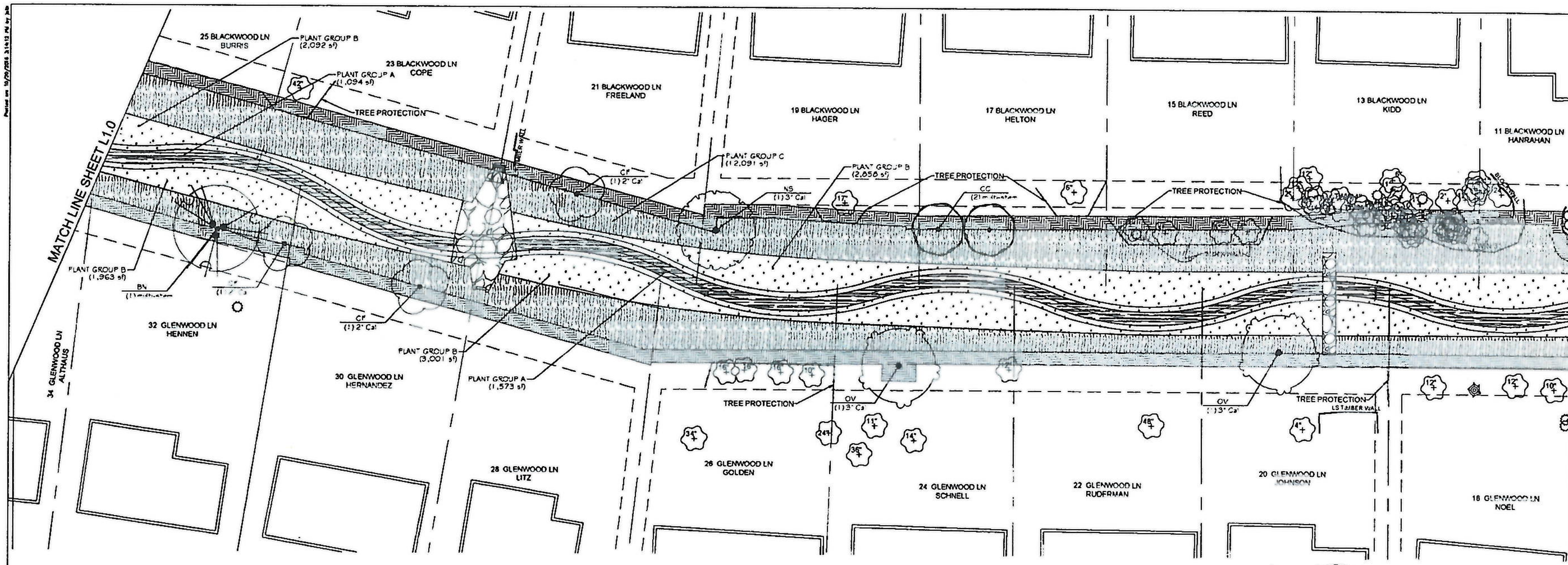
DATE

Kristy DeGuire
Professional Landscape Architect
License No. 2010000189

DRAWING TITLE
Landscape Plan

PROJECT # 15-216

SHEET NUMBER
L1.0



PLANT SCHEDULE BRANCH A

	PLANT GROUP A SWALE BOTTOM	6,610 SF	
	CAREX COMOSA / BOTTLEBRUSH SEDGE	611	20% 3" Plug 18" oc
	CAREX CRINITA / CATERPILLAR SEDGE	611	20% 3" Plug 18" oc
	CAREX GRAYI / MORNING STAR SEDGE	611	20% 3" Plug 18" oc
	JUNCUS EFFUSUS / SOFT RUSH	1,222	40% 3" Plug 18" oc
	PLANT GROUP B SWALE SIDES	24,570 SF	
	CAREX MUSKINGUMENSIS / PALM SEDGE	4,540	40% 3" Plug 18" oc
	CAREX VULPINOIDEA / BROWN FOX SEDGE	3,972	35% 3" Plug 18" oc
	JUNCUS EFFUSUS / SOFT RUSH	2,838	25% 3" Plug 18" oc
	PLANT GROUP C SWALE BUFFER	33,439 SF	
	BOUTELOUA GRACILIS 'BLONDE AMBITION' / BLUE GRAMA	6,686 SF	20% - Seed Mix
	COREOPSIS LANCEOLATA / LANCELEAF TICKSEED	3,344 SF	10% - Seed Mix
	ECHINACEA PURPUREA / PURPLE CONEFLOWER	3,344 SF	10% - Seed Mix
	RUDBECKIA HIRTA / BLACK-EYED SUSAN	3,344 SF	10% - Seed Mix
	SCHIZACHYRIUM SCOPARIUM 'THE BLUES' / LITTLE BLUESTEM	8,360 SF	25% - Seed Mix
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	PLANT GROUP D PROPERTY BUFFER	14,937 SF	
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	CAREX ALBICANS / WHITETINGE SEDGE	3,478	35% 4" Pot 15" oc
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PLANT SCHEDULE BRANCH A

TREES	CODE	BOTANICAL NAME / COMMON NAME	CAL	CONT	HGT	QTY
	BN	BETULA NIGRA 'HERITAGE' / HERITAGE RIVER BIRCH	MULTI-STEM	B+B	8 FT.	4
	CC	CERCIS CANADENSIS / EASTERN REDBUD MULTI-TRUNK	MULTI-STEM	B+B	6 FT.	12
	CF	CORNUS FLORIDA / EASTERN DOGWOOD	2" CAL	B+B		10
	NS	NYSSA SYLVATICA / SOUR GUM	3" CAL	B+B		3
	OV	OSTRYA VIRGINIANA / AMERICAN HOPHORNBEAM	3" CAL	15 GAL.		2
	TD	TAXODIUM DISTICHUM 'SHAWNEE BRAVE' TM / BALD CYPRESS	2" CAL	B+B		2

TREE PROTECTION NOTES:

1. All trees indicated on plans to be within a tree protection zone shall receive construction fence protection as shown in detail 2 on sheet L6.0.
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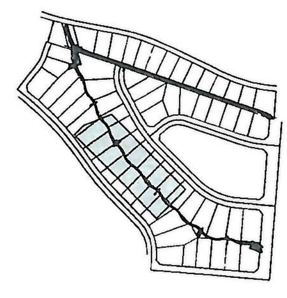


Sheet Location Plan
1"=300'

BEFORE YOU
DIG - DRILL - BLAST
1-800-344-7483
(TOLL FREE)
MISSOURI ONE CALL SYSTEM, INC

St. Peters Missouri
One St Peters Centre Blvd.
St. Peters, MO 63376
636.477.6600

P-20 Parkdale/Blackwood Chanel Improvements

NO	ISSUED FOR	DATE

DESIGNED BY JW
DRAWN BY JW
CHECKED BY KD

ISSUE DATE

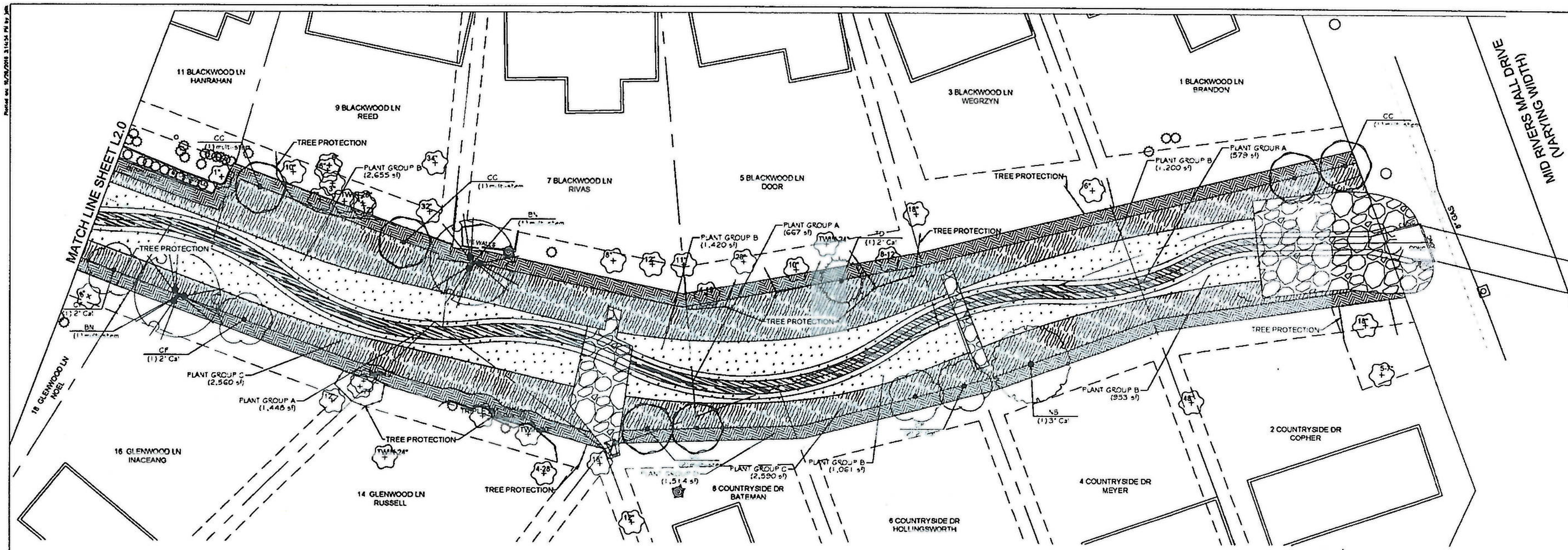
STAMP

DATE

DRAWING TITLE
Landscape Plan

PROJECT # 15-216

SHEET NUMBER
L2.0



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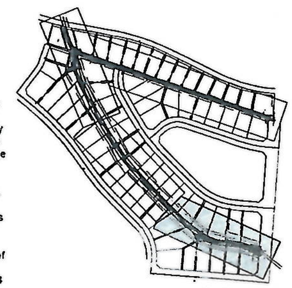

Sheet Location Plan
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St. Peters Missouri
One St Peters Centre Blvd.
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P-20 Parkdale/Blackwood Chanel Improvements

NO	ISSUED FOR	DATE

DESIGNED BY JW
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CHECKED BY KD

ISSUE DATE 10/2/18

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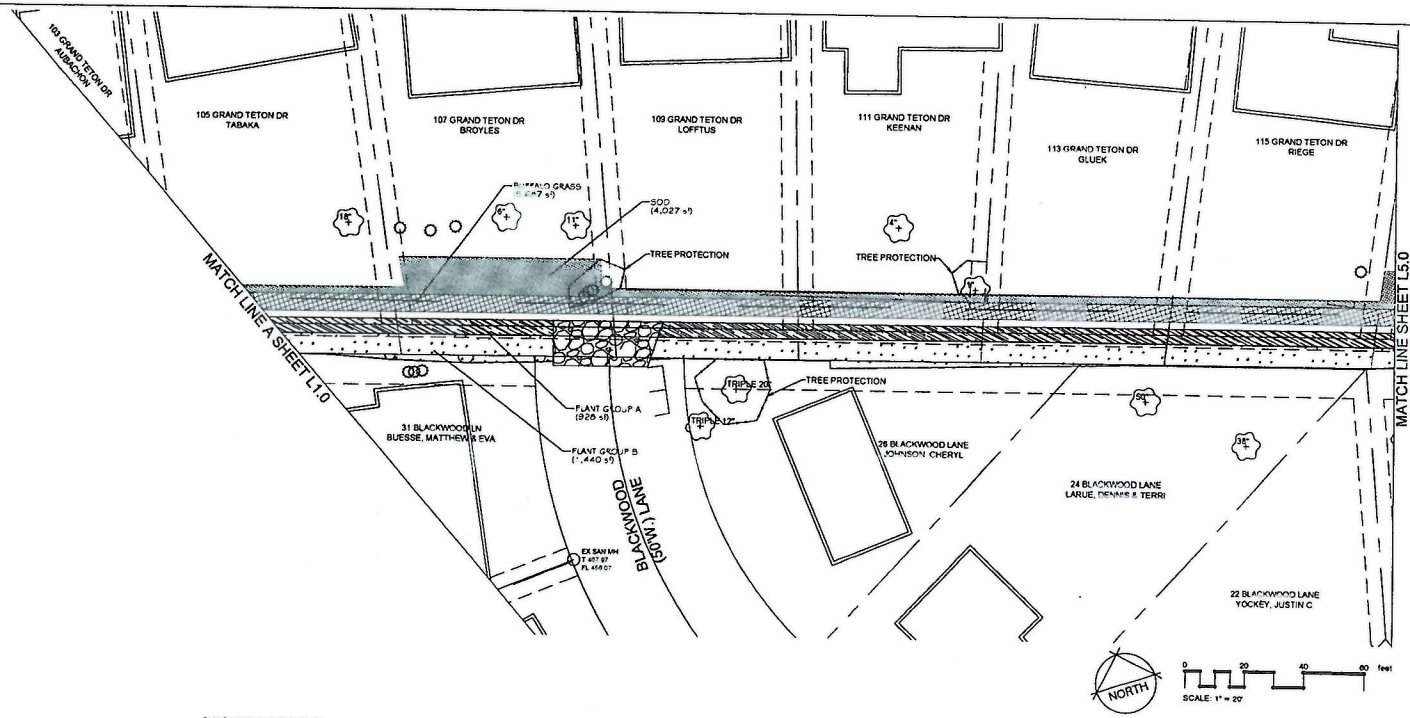
Landscape Plan

PROJECT # 15-218

SHEET NUMBER

L3.0



PLANT SCHEDULE BRANCH B

SOD	5,713 SF		
FESTUCA X BLEND / TURF TYPE TALL FESCUE BLEND		SOD	
BUFFALO GRASS	5,687 SF		
TOP OF WALL			
BOUTELOUA DACTYLOIDES 'PRESTIGE' TM / BUFFALO GRASS		SOD	
PLANT GROUP A	4,577 SF		
SWALE BOTTOM			
CAREX COMOSA / BOTTLEBRUSH SEDGE	423	20% 3" Plug 18" oc	
CAREX CRINITA / CATERPILLARSEDGE	423	20% 3" Plug 18" oc	
CAREX GRAYI / MORNING STAR SEDGE	423	20% 3" Plug 18" oc	
JUNCUS EFFUSUS / SOFT RUSH	846	40% 3" Plug 18" oc	
PLANT GROUP B	6,923 SF		
SWALE SIDES			
CAREX MUSKINGUMENSIS / PALM SEDGE	1,280	40% 3" Plug 18" oc	
CAREX VULPINOIDEA / BROWN FOX SEDGE	1,120	35% 3" Plug 18" oc	
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PROPOSED TREE PROTECTION ZONE

PLANT SCHEDULE BRANCH B

TREES	CODE	BOTANICAL NAME / COMMON NAME	CAL	CONT	QTY
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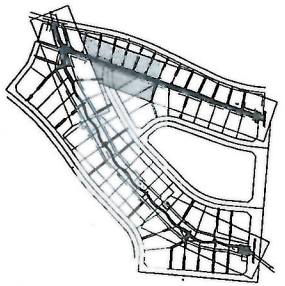

Sheet Location Plan
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Prepared by

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P-20 Parkdale/Blackwood Chanel Improvements

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CHECKED BY KD

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Kristy DeGuire
Professional Landscape Architect
License No. 2011000183

DRAWING TITLE
Landscape Plan

PROJECT # 15-218

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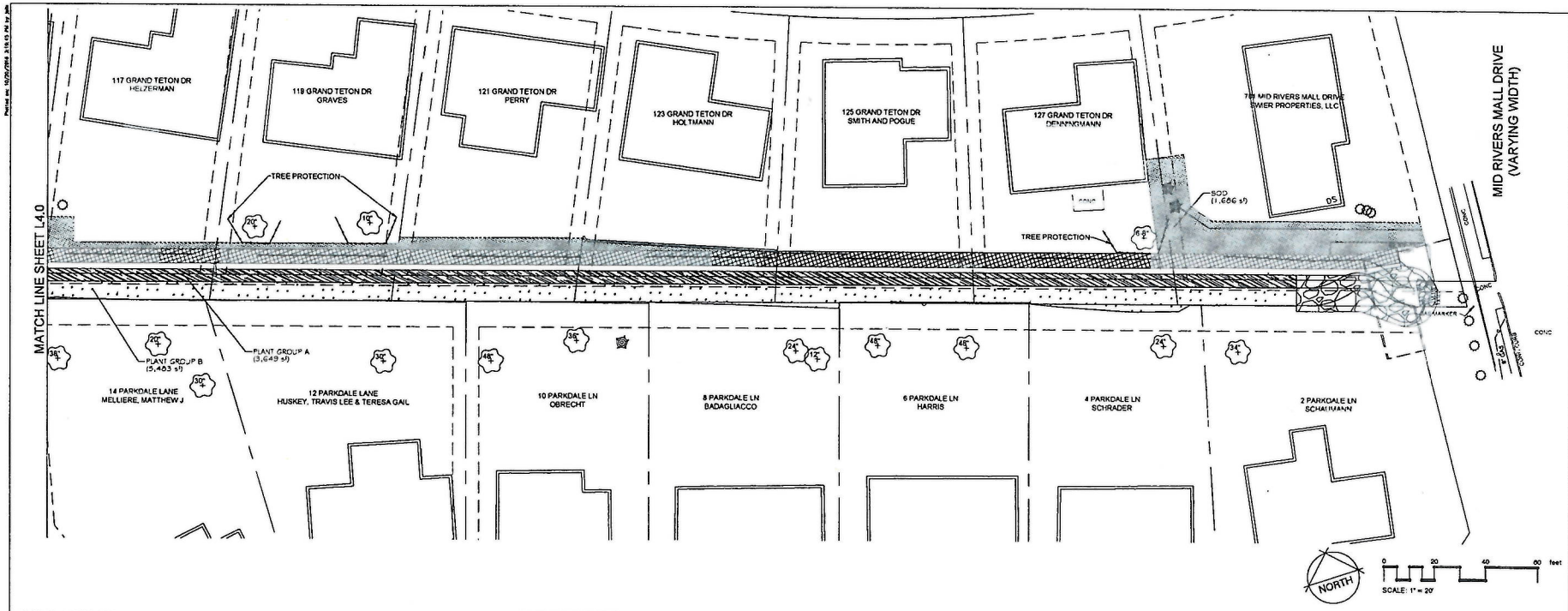
L4.0



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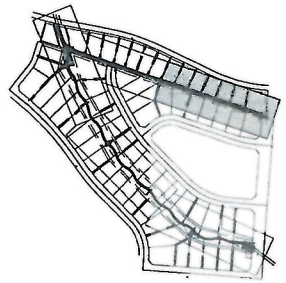

Sheet Location Plan
1"=300'

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Prepared by:
dg2 Design

St. Peters Missouri
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St. Peters, MO 63376
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P-20 Parkdale/Blackwood Chanel Improvements

NO	ISSUED FOR	DATE

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ISSUE DATE
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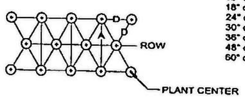
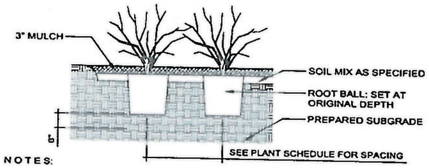
SHEET NUMBER
L5.0

Plotted on: 10/21/2016 12:08:47 PM by jwh

PLANT SPACING DIAGRAM (NTS)



Spacing ("D")	Row ("A")	Plants / Sq. Ft.
15" o.c.	13"	.738
18" o.c.	15.6"	.512
24" o.c.	20.8"	.290
30" o.c.	26"	.185
36" o.c.	30"	.120
48" o.c.	41.5"	.073
60" o.c.	52"	.046



NOTES:

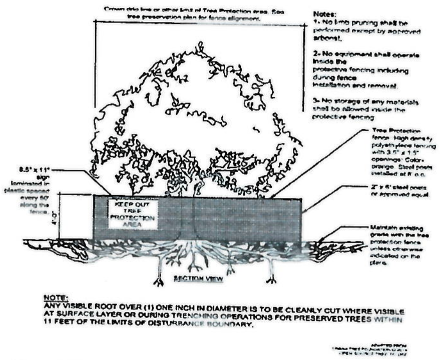
1. Plant quantities were determined by multiplying area (sf) by number of plants per sf for required spacing.
2. Space plants equally or as shown on planting plan.
3. See plant schedule for plant quantities and spacing.

1 SHRUB + PERENNIAL PLANTING

NTS

P-CO-P20-P-05

Note: The only perennial plant group to receive mulch is plant group D (property buffer)

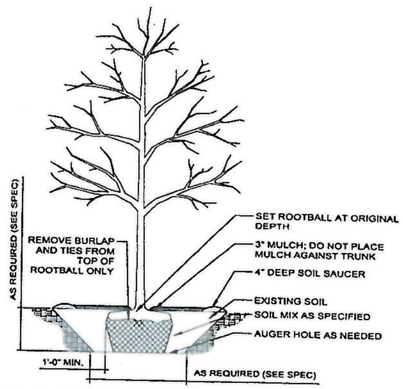


NOTE:
ANY VISIBLE ROOT OVER (1) ONE INCH IN DIAMETER IS TO BE CLEANLY CUT WHERE VISIBLE AT SURFACE LAYER OR DURING TRENCHING OPERATIONS FOR PRESERVED TREES WITHIN 11 FEET OF THE LIMITS OF DISTURBANCE BOUNDARY.

2 TREE PROTECTION DETAIL

3/16" = 1'-0"

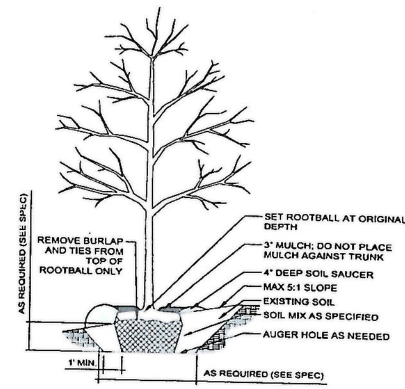
P-CO-P20-P-18



3 DECIDUOUS TREE PLANTING

NTS

P-CO-P20-P-02



4 DECIDUOUS TREE PLANTING ON SLOPE

NTS

P-CO-P20-P-04

GENERAL LANDSCAPE NOTES:

1. Plant locations are to be staked in the field. The location of all plant material shall be approved by the Landscape Architect prior to installation. Notify the Landscape Architect a minimum of 2 days prior to planting. Do not dig holes for planting material until staked locations have been approved.
2. Contractor shall verify plant quantities. Any discrepancies shall be reported to the Landscape Architect. If a conflict arises between the plan drawings and the written plant schedule, the written plant schedule shall prevail.
3. The contractor shall obtain all necessary permits pertaining to construction.
4. Underground facilities, structures and utilities have been plotted from available surveys and records. Locations and quantities are approximate and shall be the contractor's responsibility to determine of verify their existence and exact location and avoid any damage.
5. The contractor is responsible for the location and protection of all underground utilities during the landscape installation.
6. Notify Missouri Dig-Rite (1-800-344-7483) a minimum of 72 hours prior to digging.
7. Report any discrepancies found with regard to existing conditions or proposed design immediately to the Landscape Architect.
8. Do not willfully proceed with construction as designed where it is found that known discrepancies exist. The contractor shall assume full responsibility for all necessary revisions due to failure to give such notification.
9. Refer to civil drawings for underground utility locations.
10. Refer to civil drawings for grading information.
11. Any and all areas disturbed by construction activities - whether shown on the drawings or occurring in the field - are to be restored with turf sod.

PLANTING SOILS NOTES AND SPECIFICATIONS:

1. Planting soil shall be a prepared soil by a reputable local nursery or similar source.
2. Planting soil shall be free of stones, stumps, roots or other woody material over 1 inch in diameter. For best results, brush or seeds from noxious weeds, such as Johnson Grass, Mugwort, Nutsedge and Canadian Thistle should not be present in the soils.
3. pH range shall be 5.5 - 6.5.
4. Organic matter shall be 3% minimum, 10% maximum by volume.
5. Planting soil shall be installed with all new plantings.
6. Excavate existing soil from proposed planting areas to a depth as required by plant, but not less than 10 inches, and stockpile for removal from site.
7. As much as possible, do not remove soil within a 10 foot radius of existing trees to remain.
8. Subgrade preparation: scarify subgrade to a minimum depth of 4 inches. Remove stones larger than 1.5 inches in any dimension.
9. All planting beds are to be topped with leaf mulch at 3 inch depth.
10. Contractor shall install planting soil as indicated on project plans and details.

BEFORE YOU DIG - DRILL - BLAST
1-800-344-7483
(TOLL FREE)
MISSOURI ONE CALL SYSTEM, INC

Prepared by

DG2 Design

St. Peters Missouri
One St Peters Centre Blvd.
St. Peters, MO 63376
636.477.6600

P-20 Parkdale/Blackwood Chanel Improvements

NO	ISSUED FOR	DATE

DESIGNED BY JW
DRAWN BY JW
CHECKED BY KD

ISSUE DATE

STAMP

DATE

Kristy DeGuire
Professional Landscape Architect

DRAWING TITLE
Landscape Details

PROJECT # 15-216

SHEET NUMBER
L6.0