City of Jefferson
Department of Planning & Protective Services
320 E. McCarty Street
Jefferson City, MO 65101
Phone: 573-634-6410
jcplanning@jeffcitymo.org
www.jeffersoncitymo.gov

RECEIVED
MAR 25 2016
PLANNING & PROTECTIVE SERVICES

APPLICATION FOR SPECIAL EXCEPTION USE

The undersigned hereby petitions the Planning and Zoning Commission and City Council of the City of Jefferson, Missouri for the following Special Exception:

◯ ***Proposed Land Use*** *(include Reference Number from Land Use Matrix; site plan must be attached)*
Exhibit 35-28, Section B, Community Services, Item 1. Neighborhood Center, Community Activity Building
Property to be used for the "Frank and Billie Railton Center, Boys and Girls Club of the Capital City.

Property Location/Address: 1105 Lafayette Street

Legal/Property Description:
◉ Is Attached ◯ Is as follows: _____

Current Zoning District: RS-2 + RS-4
Does project involve a change in zoning district? ◉ ***No*** ◯ ***Yes, proposed zoning*** _____
If yes, a separate rezoning application is required

The undersigned hereby state they are the owners of the real estate described above or in the attached exhibit who petition for special exception use:

ALL OWNERS OF REAL PROPERTY INCLUDED IN THIS APPLICATION MUST SIGN THE APPLICATION, AND ALL SIGNATURES MUST BE NOTARIZED. IF ADDITIONAL SIGNATURES ARE NEEDED, PLEASE ATTACH SEPARATE SHEETS.

James L. Vossen, Executive Officer — James L Vossen
Property Owner #1 Name (type or print) — *Property Owner Signature*

_____ — _____
Property Owner #2 Name (type or print) — *Property Owner Signature*

Subscribed and sworn before me this 25th **day of** March **in the year** 2016.

Kaitlyn Prenger
Notary Public

KATLYN PRENGER
Notary Public - Notary Seal
STATE OF MISSOURI
County of Cole
My Commission Expires 8/20/2019
Commission # 15219376

Address of Property Owner #1: (See Below in Applicant Information)

Address of Property Owner #2

Phone Number(s):

Applicant Information (if different from property owner):
Name: Boys and Girls Club of the Capital City
Address: 925 East Atchison Court, P.O. Box 105558
Jefferson City, MO 65110
Phone Number(s) 573-634-2582

For City Use Only: Application Filing Fee $210 (Revised June 30, 2015)
Payment Received:
_____Cash (Indicate Receipt #_____) _____Check (Copy; indicate check #_____)
Attachments:
_____ Site plan _____Subdivision Plat _____Project Description Narrative

_____ Applicant Information Sheet _____Location Map _____Other documentation

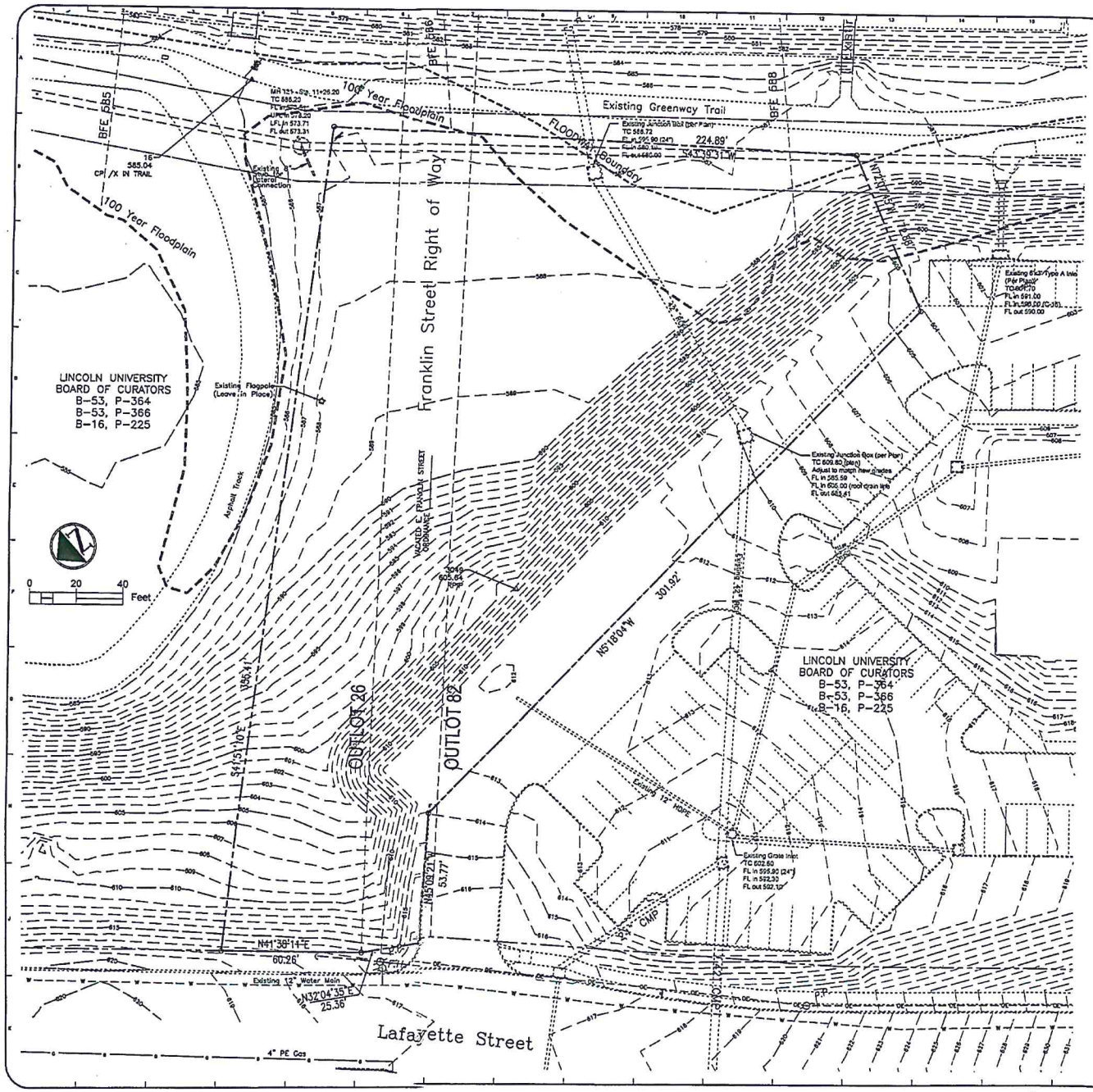
Individuals should contact the ADA Coordinator at (573) 634-6570 to request accommodations or alternative formats as required under the Americans with Disabilities Act. Please allow three business days to process the request.

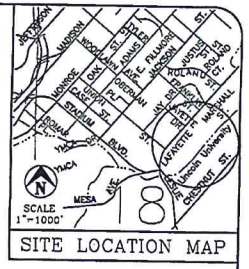
Boys and Girls Club of the Capital City

PROPERTY BOUNDARY DESCRIPTION - TRACT A

Part of Outlots 26 and 82, of the City of Jefferson, Missouri, and part of the vacated East Franklin Street right-of-way, vacated by Jefferson City Ordinance No. 15490, as recorded in Book 662, page 973, Cole County Recorder's Office and located in the Northeast Quarter of Section 18, Township 44 North, Range 11 West, in the City of Jefferson, Cole County, Missouri, more particularly described as follows:

From the most westerly corner of said Outlot 26; thence S46°50'46"E, along the southwesterly line of said Outlot 26, 34.37 feet to a point on the southeasterly right-of-way line of Lafayette Street and the POINT OF BEGINNING for this description; thence N41°38'11"E, along the southeasterly right-of-way line of Lafayette Street, 60.26 feet; thence S41°51'10"E, 355.41 feet; thence S43°39'31"W, 29.30 feet to the northerly right-of-way line of East Franklin Street; thence N46°50'46"W, along the northerly right-of-way line of East Franklin Street, 25.73 feet to the northeasterly corner of said East Franklin Street right-of-way vacated by Ordinance Number 15490; thence S43°09'14"W, along the easterly line of said East Franklin Street right-of-way vacated by Ordinance Number 15490, 30.00 feet to the southeasterly corner thereof; thence S46°50'46"E, along the southerly right-of-way line of East Franklin Street, 25.47 feet; thence S43°39'31"W, 165.59 feet; thence N72°07'45"W, 72.88 feet; thence N5°18'04"W, 301.92 feet; thence N45°09'21"W, 53.77 feet to a point on the southeasterly right-of-way line of Lafayette Street; thence N32°04'35"E, along the southeasterly right-of-way line of Lafayette Street, 25.36 feet to the POINT OF BEGINNING.
Containing 1.36 acres.





DESIGN SURVEY NOTES:

This project is part of the new "University Wellness and Parks Multi-Purpose Recreation Center" campus which is currently under construction. Because of this, most of the existing grades shown on this survey sheet are in fact the anticipated finish grade once that project is complete. This project will be constructed concurrently with that project.

Existing Site Improvements shown are also based upon the plans. This would include parking lot paving and stormwater piping and structures.

Floodplain notes:

A large portion of this site lies within the FEMA 100 year floodplain per map number 29051C0141E.

No buildings shall be constructed in the regulatory floodplain.

A regulatory floodway generally follows the existing concrete ditch and is shown on this drawing. No work will take place in the floodway. No additional fill is proposed in the floodway cross section.

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

NOTE: The Contractor will be responsible to call the Missouri One Call System 1-800-344-7483 and have the underground utilities marked or remarked prior to any construction.

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STATE OF MISSOURI
BRIAN K. McMILLIAN
NUMBER
PE-2003013009
PROFESSIONAL ENGINEER
02/15/16

Brian K. McMillian, PE - Engineer
MO PE # 2003015009

CIVIL ENGINEER:
Central Missouri Professional Services
2500 E. McCarty Street
Jefferson City, MO 65101
Phone: 573-634-3405
Missouri State Certificate of Authority 001558

CENTRAL MISSOURI PROFESSIONAL SERVICES, INC.
ENGINEERING - SURVEYING - MATERIALS TESTING

The Architects Alliance Inc.
Jefferson City, Missouri

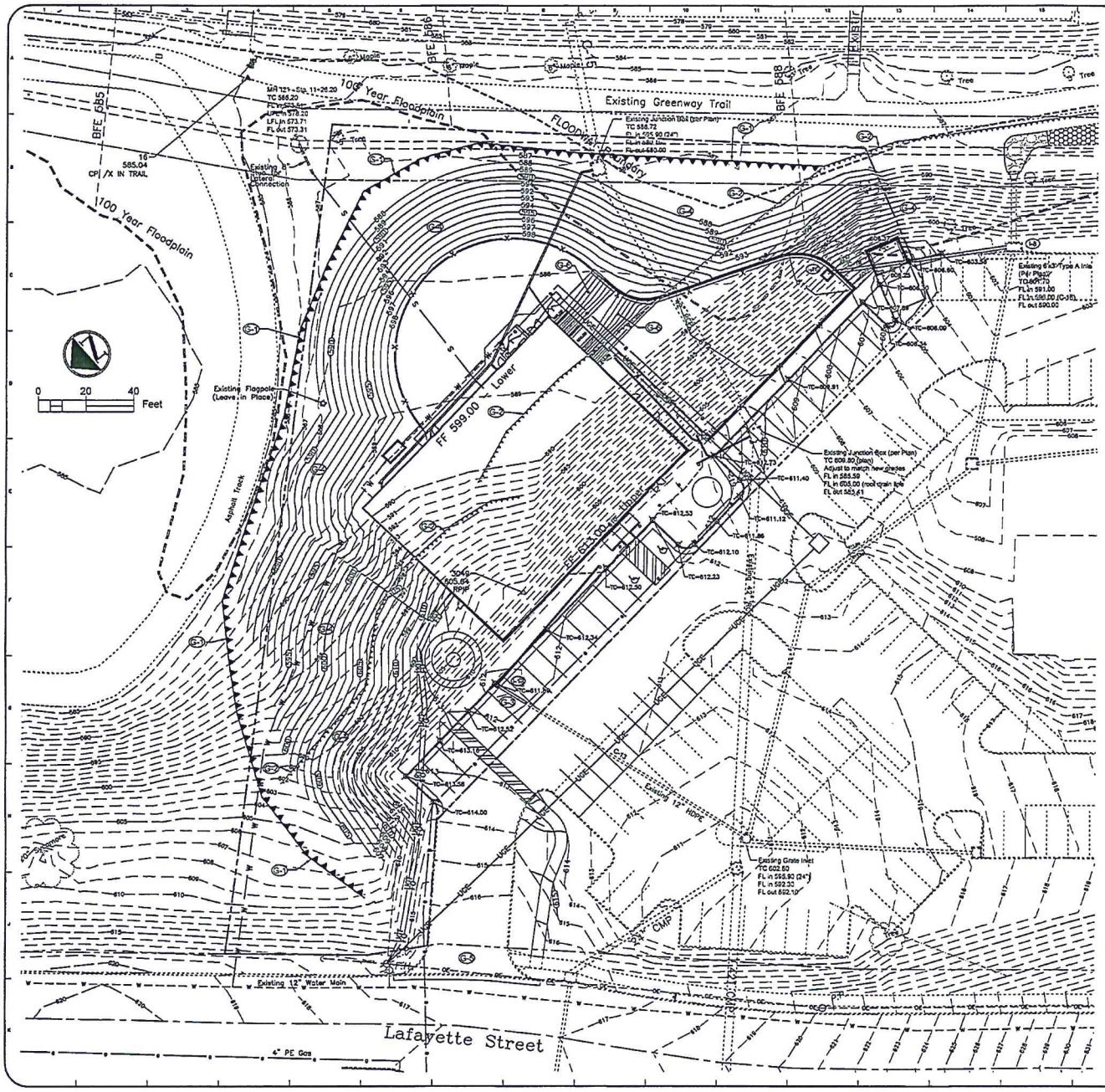
Design Survey and Clearing Plan

FRANK AND BILLIE RAILTON CENTER
BOYS AND GIRLS CLUB OF THE CAPITAL CITY
1105 LAFAYETTE STREET
JEFFERSON CITY, MISSOURI

PROJECT NO. 1318
DATE: 02/26/2016

C100

Sheet 1 of 6



GRADING NOTES:

NOTE: -Refer to sheet C1C2 for descriptions of site structures and utilities.

-A SWPPP has been developed for the University Wellness and Parks Multi-Purpose Recreation Center and a Land Disturbance Permit has been obtained for the overall property by Lincoln University. The Grading area for the Boys and Girls Club is less than 1 acre, but it is considered a part of the overall project for the Wellness Center. As such, the Contractor shall ensure the Boys and Girls Club site adheres to the requirements of the Land Disturbance Permit and SWPPP for the Wellness Center.

-The Contractor for the Boys and Girls Club Project shall coordinate all grading work and all work related to the SWPPP requirements with the Contractor for the Wellness Center. Sircal Contracting is the general contractor for the Wellness Center and Twehous Excavating is the Grading Contractor. The Contractor for Boys and Girls shall take over responsibility for all BMP's (Best Management Practices and SWPPP requirements) for the Boys and Girls Club property for the life of the project.

G-1 New Silt Fence Barrier.

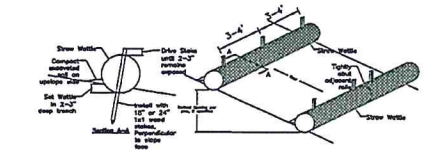
G-2 Existing Silt Fence, coordinate with Twehous Excavating for removal or re-use of the existing BMP's. This is the "plan" location, actual location may vary.

G-3 Inlet protection at I-13.

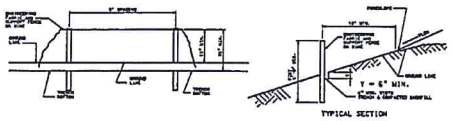
G-4 All areas with a steeper than 3:1 slope shall have a vegetative groundcover established. Do not use Rip-Rap on these slopes. A MODOT approved planting may be used. All other areas shall be seeded and mulched using the Lincoln University Seed Mixture which will be provided by Lincoln University.

G-5 Existing Wellness Center Temporary Construction Entrance. Contractor shall use this access point.

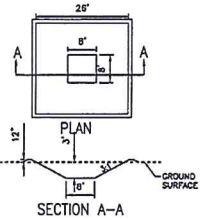
G-6 Finish slope between wall and steps / upper and lower playground with 6"-8" Clean Rock on Mirafai 140 Filter Fabric.



STRAW WATTLE DETAIL
NOT TO SCALE



SILT FENCE DETAIL
NOT TO SCALE



NOTES:

1. CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE. CONTRACTOR SHALL DETERMINE A LOCATION OR SHARE THE LOCATION WITH THE WELLNESS CENTER CONTRACTOR AT THEIR DISCRETION.
2. AGGREGATE CONSTRUCTION ENTRANCE IS REQUIRED AT CONCRETE WASHOUT ENTRANCE IF ACCESS TO WASHOUT AREA IS OFF PAVEMENT.
3. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND/OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTE CONCRETE.
4. WASTE MATERIAL FROM CONCRETE WASHOUT OPERATIONS MUST BE REMOVED AND LEGALLY DISPOSED OF WHEN IT HAS ACCUMULATED 2/3 OF THE CAPACITY OF THE STRUCTURE.
5. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED AND LEGALLY DISPOSED OF. THE DISTURBED AREA SHALL BE GRADED, SEEDED AND MULCHED.
6. THE CONTRACTOR MAY ELECT TO USE AN ALTERNATE CONCRETE WASHOUT CONFIGURATION OR LOCATION WITH PRIOR APPROVAL FROM THE ENGINEER.

CONCRETE WASHOUT AREA
NOT TO SCALE

CALL BEFORE YOU
DIG - DRILL - BLAST
1-800-344-7483
(TOLL FREE)

MISSOURI ONE CALL SYSTEM, INC.

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STORM WATER QUALITY BENEFITS SUMMARY LIST

Temporary Measures:
1. Sediment Barrier Perimeter Controls
2. Granular Entrance
3. Shot Rock Fill Material
4. Inlet Protection Measures
5. Concentrated Flow Sedimentation Control
6. Sediment Control for Drainage
7. Maintenance Responsibility Information
8. Location for Construction Staging/Concrete Washout
9. Existing Grass/Vegetated Buffer Strips
10. Balance Cut/Fill to minimize construction traffic.

Permanent Measures:
1. Enclosed storm system to paved ditch.
2. Undisturbed grass strips between site and existing concrete drainage ditch.

STATE OF MISSOURI
BRIAN K. McMILLIAN
NUMBER PE-2003015008
PROFESSIONAL ENGINEER
06/25/16

Brian K. McMillian, PE - Engineer
MO PE # 2003015009

CIVIL ENGINEER:
Central Missouri Professional Services
2300 E. Ivy Street, Suite 1
Jefferson City, MO 65101
Phone: 573-634-3455
Missouri State Certificate of Authority 2001558

CENTRAL MISSOURI PROFESSIONAL SERVICES, INC.
ENGINEERING-SURVEYING-MATERIAL TESTING

The Architects Alliance Inc.
Jefferson City, Missouri

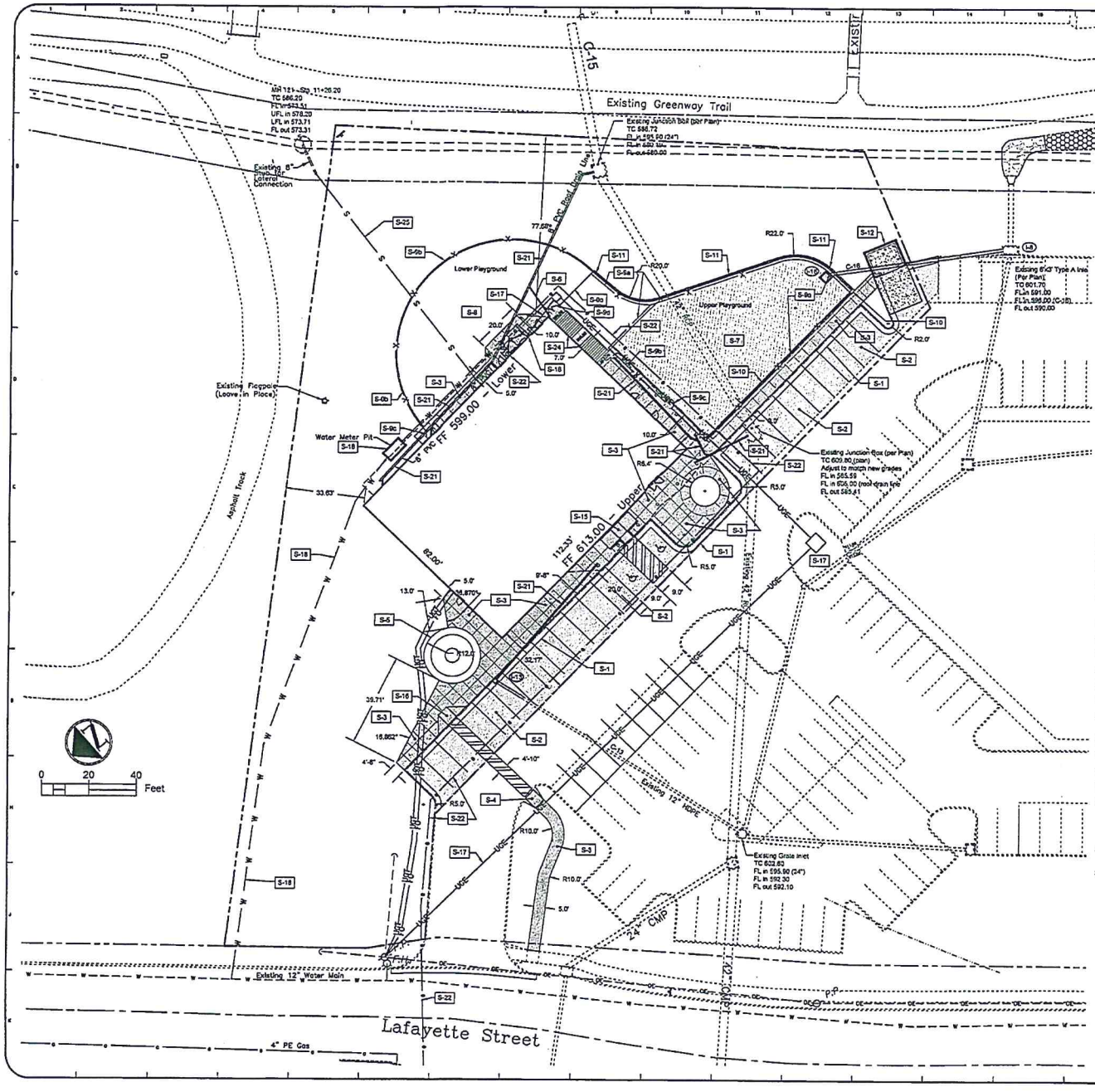
Grading Plan

FRANK AND BILLIE RAILTON CENTER
BOYS AND GIRLS CLUB OF THE CAPITAL CITY
1105 LAFAYETTE STREET
JEFFERSON CITY, MISSOURI

PROJECT NO. 1916
DATE: 02/26/2016

C101

Sheet 2 of 6



GENERAL NOTES:

1. All work on the Lafayette Street right of way shall comply with the Jefferson City, Missouri Codes and Standards, Technical Specifications, and all other applicable requirements.

2. It is the contractor's responsibility to obtain all necessary permits associated with the installation, notify municipal and state agencies and utility companies having jurisdiction, and to coordinate all inspection required.

3. Location of existing utilities are from best information available. Exact location and completeness are not guaranteed. Prior to construction the Contractor shall contact all utility companies concerned. (1-800-DIG-RITE Missouri One Call) If this data is not complete, make test pits and other field locations necessary in order to determine the exact locations of the concerned utilities. Any existing utilities, structures, trees, or other objects which could interfere with the correct completion of the project are also to be located by the Contractor. Any conflicts are to be addressed to the Engineer prior to construction. Additional work resulting from a failure to initially address these items will be at the expense of the Contractor.

4. Contractor to be responsible for the protection of new and existing structures, vegetation, walkways, or improvements. No trees outside cuts and fills are to be removed without the approval of the Engineer. No fill is to be placed around existing trees. Damages resulting from construction activities are to be repaired by Contractor at no additional cost to Owner. Any damages shall be brought to the immediate attention of the Engineer.

5. All written dimensions, coordinates, bearings, and other written data govern. Prior to starting work all data is to be verified by the contractor.

6. Consult Engineer regarding proposed changes, relocation, or modifications prior to the start of work.

7. Locations of all existing topographical features are based upon a survey by Central Missouri Professional Services. Various CMPS Control Points are identified throughout the site and indicated by an "RP". All elevations are USGS Elevations.

8. All exposed areas of disturbed earth are to be finish graded with 6" of topsoil and seeded, mulched and fertilized (NOTE: LU will provide the Seed for the project). Slopes which exceed a 3:1 slope shall have a MODOT approved vegetative ground cover.

9. All fill under pavement is to have 95% compaction. All cut areas under pavement are to be treated as the final lift of fill and compacted to 95%. Non compressible fill materials such as crushed rock with minimal fines may be used instead of compacted fill in trenches.

10. All parking stalls shown on this sheet shall be painted as shown. Parking stalls shall have white paint and the ADA Spaces shall have blue paint. Provide proper signage at ADA Parking Spaces.

11. Shade Tree Calculation:

SITE NOTES:

S-1 Construct Concrete Curb and Gutter (See Sheet C500)

S-2 Parking Lot Paving may be asphalt or concrete. See sheet C500 for detail. Match paving for Wellness Center.

S-3 Sidewalk - 4" PCC on 4" base. See Sheet C500 for detail. Typical Joint Spacing is shown.

S-4 City of Jefferson Type B3 ADA Ramp. Refer to City Details.

S-5 "Beacon of Light" area, see Architectural details.

S-6 4" PVC Foundation Drain - Connect to S-21. Coordinate with Structural.

S-7 Upper Playground. Asphalt paved with 2" BP-1 on 4" Type 5 Base.

S-8 Lower Playground. Finish with Topsoil and Seed, Mulch and Fertilize. (See alternate bid C103 for modifications).

S-9 Chainlink Fence
a. 60" Tall around S-7 (Upper Playground) on wall and slope sides.
b. 48" Tall around S-8 (Lower Playground) and S-7 adjacent to building.
c. 3' wide single swing gate.
d. 6' wide double swing gate.
e. 60" Tall Fence around Gas Meter and Electrical Panels - 14'x3' with 8' wide double swing gate.

S-10 Construct 12" Thick Concrete Retaining Wall along Parking Lot Sidewalk (typ). See C500 for details

S-11 Construct Segmental Block Wall (See Sheet C200 for profile) (Note: alternate bid item is to construct an ADA ramp along this wall alignment, see sheet C103 for details).

S-12 Trash Pad - See Architectural Plans for Details. Heavy Duty 8" PCC Paving on 4" Type 5 Base.

S-13 Landscape area - Contractor shall provide 12" of topsoil in this area.

S-14 Paint Cross-Walk at this location.

S-15 Parallel ADA Ramp, See Detail Sheet C500

S-16 ADA Ramp, See Detail Sheet C500

S-17 Electric Service and Transformer Location - Coordinate with Electrical Plans

S-18 4" Water Service - Combined Fire and Domestic - Place Water Meter Pit as shown (See Detail Sheet C500) Split off 3" Fire and 2" Domestic at building.

S-19 Telecommunications Conduit - See Electrical plans for details.

S-20 Concrete Steps with Handrail on both sides. (typ) See Detail Sheet C500.

S-21 Roof Drain Line - Schedule 40 PVC (All lines 6" unless noted otherwise). NOTE: The main line at the rear of the build is 8".

S-22 Gas Service - Coordinate with Ameren Gas and MEP Plans. Gas meter at rear of building per MEP.

S-23 ADA Parking Spaces. Spaces shall not exceed a 1.8% slope in any direction. Proper signage will be placed either on the building column or a separate sign post. Both spaces shall be marked as van accessible with fine signage.

S-24 Concrete Steps (See Detail C500) Place Handrails on both sides of steps.

S-25 6" PVC Sanitary Lateral, direct to existing Stub at City MH.

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

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STATE OF MISSOURI
BRIAN K. McGILLIAN
NUMBER PE-2003015009
PROFESSIONAL ENGINEER
03/25/16

Brian K. McGillian, PE - Engineer
MO PE # 2003015009

CIVIL ENGINEER:
Central Missouri Professional Services
2500 E. McCarty Street
Jefferson City, MO 65101
Phone: 573-635-5355
Missouri State Certificate of Authority 2001038

CENTRAL MISSOURI PROFESSIONAL SERVICES, INC.
ENGINEERING-SURVEYING-MATERIAL TESTING

The Architects Alliance Inc.
Jefferson City, Missouri

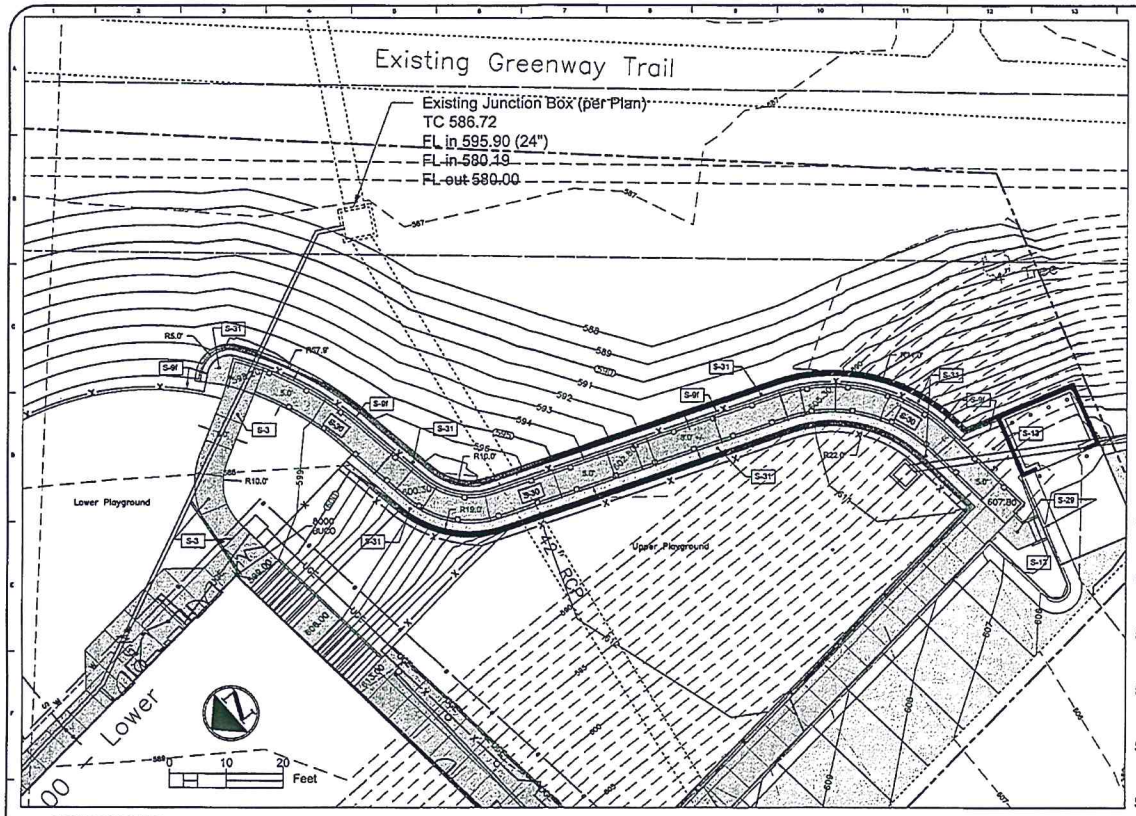
Site Layout Plan

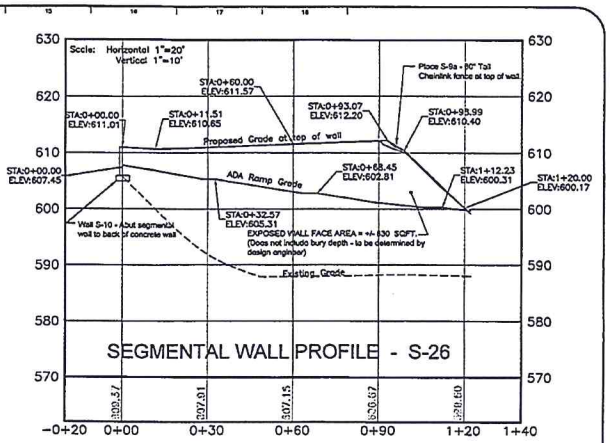
FRANK AND BILLIE RAILTON CENTER
BOYS AND GIRLS CLUB OF THE CAPITAL CITY
1105 LAFAYETTE STREET
JEFFERSON CITY, MISSOURI

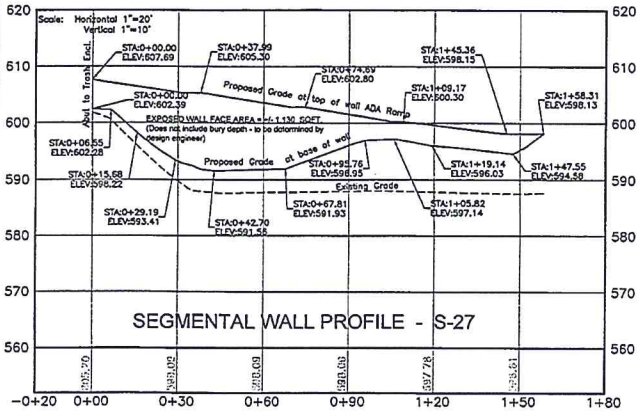
PROJECT NO. 1318
DATE: 02/26/2016

C102

Sheet 3 of 6







ALTERNATE BID SITE NOTES:

S-3 Sidewalk - 4" PCC on 4" base. See Sheet C500 for detail. Typical Joint Spacing is shown.

S-9 Chainlink Fence
f. 48" Tall between ramp handrail and wall.

S-13 Landscape area - Contractor shall provide 12" of topsoil in this area.

S-26 ADA Ramp Alternate - Upper Retaining Wall (Segmental - Design by Contractor)

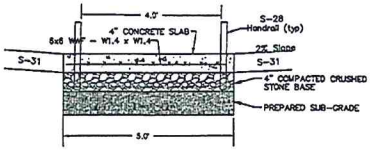
S-27 ADA Ramp Alternate - Lower Retaining Wall (Segmental - Design by Contractor)

S-28 Handrail for ADA Ramp (typ) See Detail this sheet.

S-29 Construct 4" PCC Sidewalk on 4" Base and Concrete Steps (w/ 7" Risers) down to Trash Pad Area.

S-30 ADA Ramp - 5' Wide (See Detail this sheet)

S-31 Pave area between Ramp and Wall with 4" PCC on 4" base - Width may vary dependent upon segmental wall design and wall batter.



S-30 – RAMP CONCRETE SECTION

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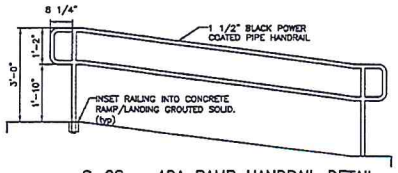

S-28 – ADA RAMP HANDRAIL DETAIL

No Scale

CALL BEFORE YOU DIG - DRILL - BLAST
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ENGINEERING-SURVEYING-MAPPING-TESTING

The Architects Alliance Inc.
Jefferson City, Missouri

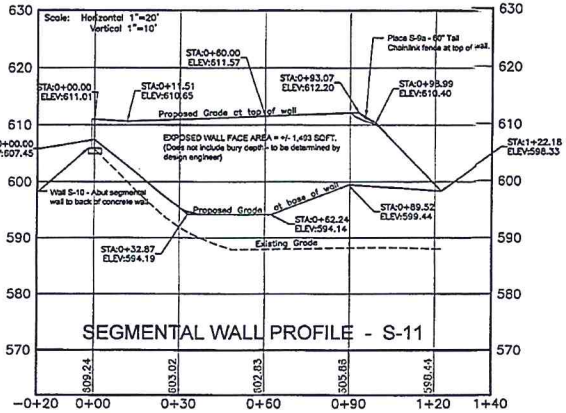
Site ADA Ramp
Alternate Bid

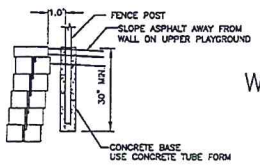
FRANK AND BILLIE RAILTON CENTER
BOYS AND GIRLS CLUB OF THE CAPITAL CITY
1105 LAFAYETTE STREET
JEFFERSON CITY, MISSOURI

PROJECT NO. 1316
DATE: 02/25/2016

C103

Sheet 4 of 6



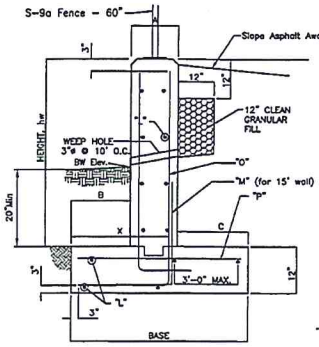


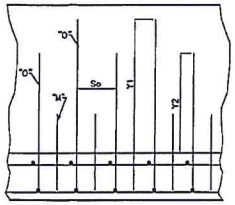
WALL S-11

S-9a POST DETAIL
TYPICAL FENCE POST
SCALE: NONE

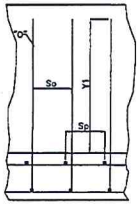
CONCRETE RETAINING WALLS

HEIGHT hw (ft.)	BASE (ft.)	B (ft.)	A (ft.)	C (ft.)	O-BARS SIZE SPACING	O-BARS X	O-BARS Y1	O-BARS Y2	M-BARS (11-15' Wall) SIZE SPACING	M-BARS X	M-BARS Y1	P-BARS SIZE - LENGTH - SPACING	L-BARS SIZE SPACING	TOTAL STEEL (lbs./L.F.)	STEM STEEL AT BASE (in²/L.F.)	CONCRETE (cu. ft. per lin. ft.)
3	2'-6"	0'-7"	1'-0"	0'-11"	#3 @ 18"	1'-1"	(hw less top cover)	–	–	–	–	#3 – 2'-0" – 18"	#4 @ 8	8.6	0.012	5.50
4	3'-0"	0'-8"	1'-0"	1'-3"	#3 @ 18"	1'-3"		–	–	–	–	#3 – 2'-8" – 18"	#4 @ 8	10.0	0.030	7.17
5	3'-10"	1'-0"	1'-0"	1'-10"	#3 @ 18"	1'-6"		–	–	–	–	#3 – 3'-4 – 18"	#4 @ 8	11.8	0.058	8.83
6	4'-6"	1'-3"	1'-0"	2'-3"	#3 @ 13"	1'-9"		–	–	–	–	#3 – 4'-0" – 18"	#4 @ 8	14.3	0.100	10.50
7	5'-0"	1'-6"	1'-0"	2'-6"	#3 @ 9"	2'-0"		#3 – 3'-0"				#3 – 4'-8" – 18"	#4 @ 8	16.0	0.150	12.00
8	5'-6"	1'-9"	1'-0"	2'-9"	1/2" @ 1 1/2"	2'-3"		#3 – 3'-4"				#3 – 5'-0" – 18"	#4 @ 8	19.0	0.242	13.83
9	6'-0"	2'-0"	1'-0"	3'-0"	1/2" @ 1 1/2"	2'-6"		#3 – 3'-8"				#3 – 5'-8" – 18"	#4 @ 8	22.0	0.349	15.67
10	6'-6"	2'-3"	1'-0"	3'-3"	1/2" @ 1 1/2"	2'-9"		#3 – 4'-0"				#3 – 6'-0" – 18"	#4 @ 8	26.0	0.475	17.50





ALTERNATE LONG AND SHORT "O" BARS – SPACING So



ONE LENGTH "O" BARS SPACING So

BAR DETAILS AND NOTATION

WALL S-10 DETAILS

GENERAL NOTES - CONCRETE RETAINING WALL
QUALITY ASSURANCE
1. Contractor shall obtain all permits from applicable authorities and the City of Jefferson and/or the State of Missouri.

2. Contractor to verify all dimensions and conditions on drawings and report any discrepancy to Engineer.

BRACING AND SHORING
1. Temporary bracing for backfill against foundation wall to be designed by the contractor.

FOUNDATIONS
1. Foundation design is based upon 2,000 psf bearing.

2. All footings to bear on and be formed by clean, undisturbed, virgin, sub-soil or engineered fill with safe bearing pressures of 2,000 psf.

CONCRETE
1. Reinforced concrete shall be normal weight concrete with a 28 day compressive strength of 3000 psi.

2. Provide protection for reinforcing bars as follows:
Footings....3" Slabs...1" Walls...2"
Or as indicated on the wall detail.

3. All concrete exposed to weather shall be air entrained with 5% to 8%.

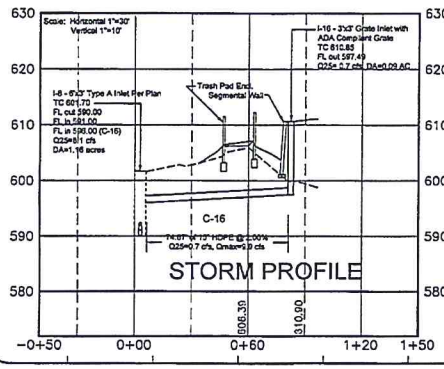
4. Provide vertical control joints in the retaining wall at 15 ft. intervals.

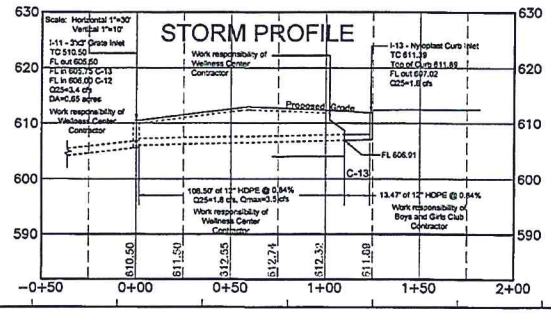
5. Wall finish shall be per Architect's specifications in regards to texture/color.

REINFORCING STEEL
1. Place #4 Temperature and Cracking Steel at wall face @ 12" c.w.

C-CALCULATOR

AREA-1 Acre	C	AREA-2 Acre	C	AREA-3 Acre	C	OVERLAND Feet	Fall	CHANEL Feet	Vel.	Storm Event	Basin Desc.	cfs Q=	avg. C*	Cf*	In/hr I*	Acres A	CA	TIME IN MINUTES To+	Tt	Tc
0.00	0.90	0.22	0.85	0.00	0.25	1	1.0	1	1.0	25	Area 1-Main Roof	1.6	0.85	1.00	8.30	0.22	0.19	0.10	0.02	5.00
0.00	0.90	0.02	0.85	0.00	0.25	1	1.0	1	1.0	25	Area 2-Front Canopy	0.1	0.85	1.00	8.30	0.02	0.02	0.10	0.02	5.00
0.09	0.90	0.00	0.85	0.00	0.25	1	1.0	1	1.0	25	Area 3-Asph. Play.	0.7	0.90	1.00	8.30	0.09	0.08	0.08	0.02	5.00
0.22	0.90	0.01	0.85	0.02	0.25	1	1.0	1	1.0	25	Area 13 (Wellness)	1.8	0.85	1.00	8.30	0.25	0.21	0.10	0.02	5.00





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

NOTE: The Contractor will be responsible to call the Missouri One Call System 1-800-344-7483 and have the underground utilities marked or remarked prior to any construction.

NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES, HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

STATE OF MISSOURI
BRIAN K. McMILLIAN
NUMBER PE-2003015009
PROFESSIONAL ENGINEER
01/31/19

Brian K. McMillian, PE - Engineer
MO PE # 2003015009

CIVIL ENGINEER:
Central Missouri Professional Services
2500 Ellis Blvd. Suite 101
Jefferson City, MO 65101
Phone: 573-634-3455
Missouri State Certificate of Authority #001558
CENTRAL MISSOURI PROFESSIONAL SERVICES, INC.
ENGINEERING • SURVEYING • ARCHITECTURE

The Architects Alliance Inc.
Jefferson City, Missouri

Retaining Wall and Stormwater Profiles and Details

FRANK AND BILLIE RAILTON CENTER
BOYS AND GIRLS CLUB OF THE CAPITAL CITY
1105 LAFAYETTE STREET
JEFFERSON CITY, MISSOURI

PROJECT NO. 1839
DATE: 02/25/2019
C200
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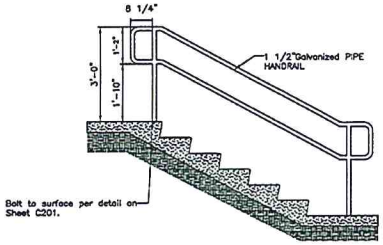
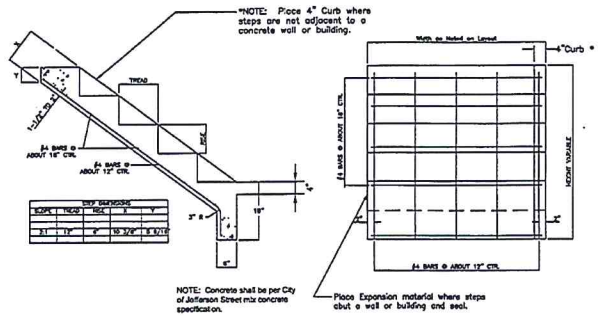


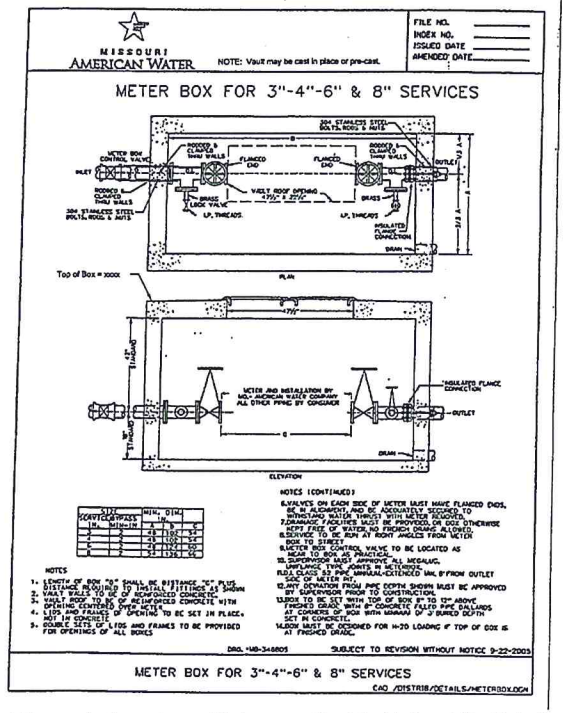
STAIR HANDRAIL DETAIL

No Scale



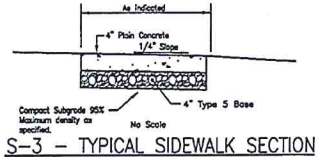
S-20 – CONCRETE STEPS DETAIL

No Scale



Missouri American Water – S-18 Meter Pit Details

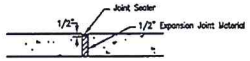
No Scale



S-3 – TYPICAL SIDEWALK SECTION

No Scale

1. CONTRACTION JOINTS ON 5' CENTERS.
2. FOR LONG RUNS, INSTALL EXPANSION JOINTS AT A MINIMUM SPACING OF 120'.
3. INSTALL EXPANSION JOINTS WHERE SIDEWALK ABUTS A CURB, ANOTHER SIDEWALK OR A SOLID STRUCTURE.



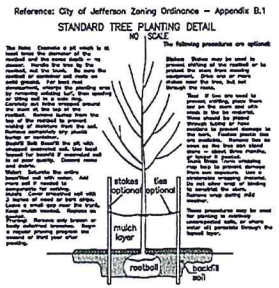
Expansion Joint

Construction Joint

Contraction Joint

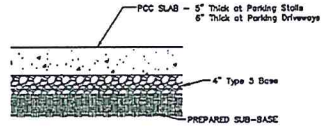
TYPICAL CONCRETE JOINT DETAILS

No Scale



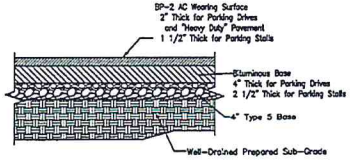
CITY TREE PLANTING DETAIL

No Scale



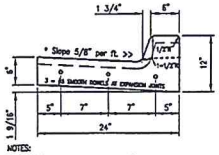
S-2 – CONCRETE PAVEMENT

No Scale



S-2 – ASPHALT PAVEMENT

No Scale

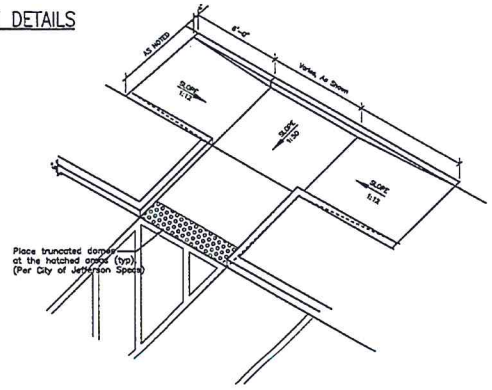


NOTES:

1. 3/4" expansion joints with 2' dowels to be placed at radius points, drive approaches, and 300' minimum intervals. These dowels shall be greased and wrapped on one end with expansion tube.
2. 1-1/2" deep contraction joints shall be installed at approx. 10' intervals. These joints shall pass through the entire curb section.
3. Fix dowels with bar chairs or equivalent.
4. * If the pavement slopes away from the curb the slope of the curb should match that of the pavement not 5/8" per ft. toward the curb.

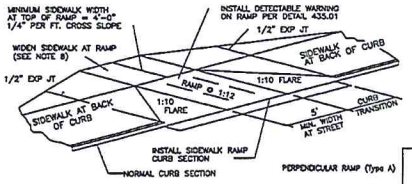
S-1 – CONCRETE CURB & GUTTER

No Scale



S-15 –PARALLEL ADA SIDEWALK RAMP DETAIL

No Scale



NOTE:

1. RAMP SHALL BE 4" THICK CONCRETE.
2. EXPANSION JOINT SHALL BE 1/2" PREFORMED CORK OR BITUMINOUS EXPANSION JOINT MATERIAL.
3. MAXIMUM RAMP CROSS SLOPE IS 1/4" PER FT.
4. ALL SLOPES ARE MEASURED FROM THE HORIZONTAL.
5. REPLACE STANDARD CURB SECTION WITH SIDEWALK RAMP CURB SECTION
6. RAMP LENGTH IS DEPENDENT ON 1:12 MAX. SLOPE. USE FLATTER WHEN POSSIBLE.
7. LANDING AREA SHALL BE 4'-0" MIN WIDTH, CROSS SLOPE OF LANDING SHALL NOT EXCEED 1/4" PER FT.
8. TYPE "A" RAMP NOT APPLICABLE WHEN NORMAL SIDEWALK WIDTH DOES NOT PROVIDE 4'-0" LANDING AT THE TOP OF RAMP, WIDEN SIDEWALK OR USE TYPE "B" RAMP.
9. 10:1 FLARES ARE REQUIRED ON TYPE "A" RAMPS.

S-16 – ADA RAMP DETAIL

No Scale

STATE OF MISSOURI
BRIAN K. MCMILLIAN
NUMBER PE-2003015000
PROFESSIONAL ENGINEER
03/15/16

Brian K. McMillian, PE - Engineer
MO PE # 2003015000

CIVIL ENGINEER:
Central Missouri Professional Services
2500 E. McCarty Street
Jefferson City, MO 65101
Phone: 573-634-3455

Central Missouri Professional Services, Inc.
ENGINEERING SURVEYING MATERIAL TESTING
Missouri State Certificate of Authority #001558

The Architects Alliance Inc.
Jefferson City, Missouri

Site Details

FRANK AND BILLIE RAILTON CENTER
BOYS AND GIRLS CLUB OF THE CAPITAL CITY
1105 LAFAYETTE STREET
JEFFERSON CITY, MISSOURI

PROJECT NO. 1318
DATE: 02/26/2016

C500

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