



R1-5b  
36" x 36"

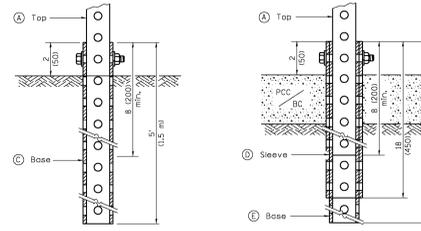
NOTE: SEE DETAIL 10 ON SHEET C3.3 AND 3 ON SHEET C3.4 FOR MOUNTING

1  
C3.4  
PEDESTRIAN CROSSWALK SIGN DETAIL (R1-5B - 36" x 36")  
SCALE: NO SCALE



NOTE: SEE DETAIL 10 ON SHEET C3.3 AND 3 ON SHEET C3.4 FOR MOUNTING

2  
C3.4  
PEDESTRIAN CROSSWALK ADVANCED WARNING DETAIL (W11-2 - 30" x 30")  
SCALE: NO SCALE

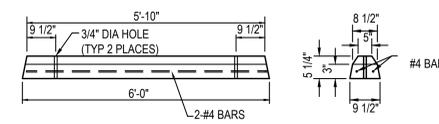


GROUND MOUNT DETAIL PAVEMENT MOUNT DETAIL

NOTES:  
ALL SIGN POSTS AND COMPONENTS SHALL HAVE A BLACK POWDER COAT FINISH

1	2 x 2 x var. (51 x 51 var.)
2	1 1/2 x 1 1/2 x 12 (44 x 44 x 300)
3	2 1/4 x 2 1/4 x 60 (57 x 57 x 1500)
4	2 1/2 x 2 1/2 x 18 (64 x 64 x 450)
5	2 1/4 x 2 1/4 x 36 (57 x 57 x 900)

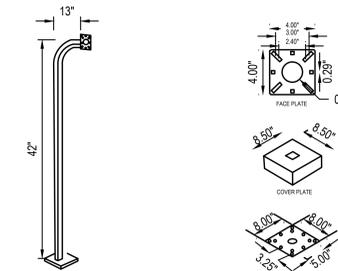
3  
C3.4  
TELESCOPING STEEL SIGN SUPPORT  
SCALE: NO SCALE



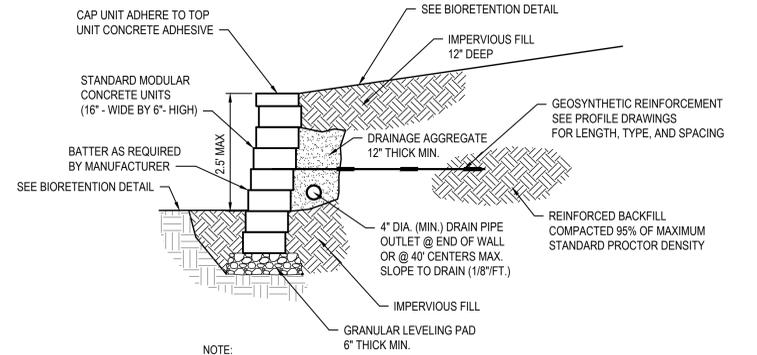
NOTES:  
1. PARKING BLOCKS SHALL BE MADE OF CONCRETE  
2. PARKING BLOCKS TO BE ANCHORED WITH 5/8" x 24" IRON PINS (2 EACH) DRILLED INTO THE PAVEMENT & FIT SNUG AS TO NOT RACK WHEN SHOVED.

6  
C3.4  
CONCRETE PARKING BLOCK DETAIL  
SCALE: NO SCALE

42" TALL PEDESTAL THAT ACCOMMODATES ADA COMPLIANT SPECIFICATIONS

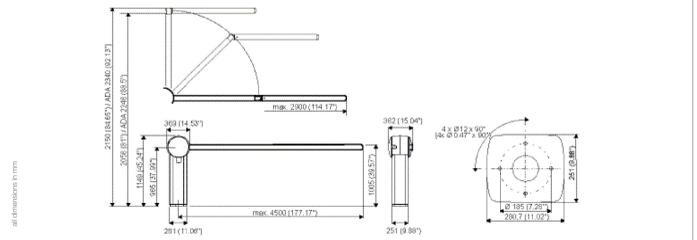


7  
C3.4  
KEYCARD PEDESTAL  
SCALE: NO SCALE



NOTE:  
USE GEOGRID AS REQUIRED BY THE MANUFACTURER'S RECOMMENDATIONS.  
COLOR OF SEGMENTAL BLOCK WALL SHALL BE SELECTED BY OWNER FROM MANUFACTURER'S FULL PALLET OF COLOR OPTIONS.  
PROPOSED WALLS NOT TO EXCEED 2.5 FEET IN HEIGHT MEASURED FROM THE FINISHED GRADE LINE TO TOP OF WALL. SEE GRADING PLAN FOR TOP AND BOTTOM OF WALL ELEVATION AND LOCATIONS.

4  
C3.4  
SEGMENTAL BLOCK WALL  
SCALE: NO SCALE



**Features**

- Housing made from high-impact resistant plastic; support stand manufactured from eloxed aluminum
- Integrated drive gear motor with frequency converter control and slipping clutch
- Self-locking drive (stops motion in case of power failure)
- Barrier breakage detector
- Variable opening times, configurable in accordance with barrier arm length
- Barrier arms made from GRP
- Barrier arm lengths up to 4.5 m (14.76 ft)
- Barrier arms are easy to mount
- Versions for left-hand and right-hand traffic
- Electronic calculations based on Military Standard (MIL-HDBK-217F)
- 7-year maintenance free service with 600 cycles per day (under standard environmental conditions) 2 million cycles MTBM (Mean Time Between Maintenance)

**Options**

- Standard: Color Traffic Yellow RAL 1023/translucent; non-illuminated for lengths up to 4.5 m (14.76 ft)
- Multi-color version: Color white/translucent, with interior RGB LEDs for optional illumination of barrier arm in red, yellow and green to indicate closed, opening, and open states, respectively; lengths up to 4.5 m (14.76 ft)
- Jointed barrier arm: Overhead clearance: 2,07 m (6.8 ft) or 2,25 m (7.38 ft); Lengths 2,5 m (8.2 ft) or 2,9 m (9.5 ft)
- Multi-color jointed barrier arm with interior RGB LEDs: Overhead clearances: 2,07 m (6.8 ft) or 2,25 m (7.38 ft); Lengths 2,5 m (8.2 ft)

**Functional modules**

- Up to 2 double loop detectors for detection of vehicles and passage direction
- Bi-directional red warning light to indicate moving barrier arm
- Beeper for acoustic indication of barrier motion
- Crash guard, made from stainless steel
- Interface for illumination options and optional loop detectors
- Interface for up to 16 additional I/Os
- Barrier lock for Webkey system
- Lock for installation in locking systems
- White contour stripe
- Backlight for contour stripe
- Barrier arm support (with or without magnetic lock)

**Standard Version**

- Parking barrier with mounting plate, main body manufactured from aluminum, drive motor and washer for barrier arm installation
- Electronic control assembly with data connection to Power, Gate, Lift, Gate or Column, Gate parking column
- Yellow contour stripe
- Triangular key for opening the housing

Technical Specifications	
Dimensions	382 mm x 1149 mm x 369 mm / 15.04" x 45.24" x 14.53" (w x h x d)
Weight	48 kg (105.82 lbs) (without barrier arm)
Operating voltage	100-240 V ±10% / 50-60 Hz / Maximum current 1,8 A at 240 V or 4,8 A at 100 V With heater for 220-240 V ±10% / 50-60 Hz / 3,8 A maximum current With heater for 100-127 V ±10% / 50-60 Hz / 8,1 A maximum current
Temperature range	Standard: -20 °C to +50 °C (-4 °F to +122 °F) Cold Kit (heater): -40 °C to +50 °C (-40 °F to +122 °F) Hot Kit: -20 °C to +55 °C (-4 °F to +131 °F)
Support Stand - Color	Light Gray RAL 7035 (Anodized Aluminum)
Top Section - Color	Dusty Gray RAL 7043 (Plastic)
Base Section - Color	Traffic Gray RAL 7043 (Die-Cast Aluminum)
Contour Stripes - Color	Traffic Yellow RAL 1023
Degree of protection	IP44
System Requirements	Parking Logic V 05.00.04 or higher
Declarations / Certifications	CE, ENR115, GOST

8  
C3.4  
SKIDATA BARRIER ARM  
SCALE: NO SCALE

BID DOCUMENTS

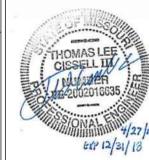
CONSULTANTS:

**ARCHITECT:**  
SPUR DESIGN  
320 NW 10TH ST., SUITE A  
OKLAHOMA CITY, OK 73103  
PHONE: 405.842.6100  
CERTIFICATE OF AUTHORITY:  
MO #2012034754 (ARCHITECTURE)

**CIVIL ENGINEER:**  
OATES ASSOCIATES  
700 OLIVE, SUITE 700  
ST. LOUIS, MO 63101  
PHONE: 314.588.8381  
CERTIFICATE OF AUTHORITY:  
MO #2011166 (ENGINEERING)

**LAND SURVEYING:**  
GLASPER PROFESSIONAL SERVICES, INC.  
13100 MANCHESTER RD., SUITE 85  
ST. LOUIS, MO 63131  
PH: 314.966.9987  
CERTIFICATE OF AUTHORITY:  
MO #2011027103 (LAND SURVEYING)

**ELECTRICAL ENGINEER:**  
SPUR DESIGN  
1020 KING ST., SUITE 350  
OVERLAND PARK, KS 66210  
PH: 913.369.7200  
CERTIFICATE OF AUTHORITY:  
MO #2014031351 (ENGINEERING)



CIVIL ENGINEER:

**OATES ASSOCIATES**  
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314.588.8381  
www.oatesassociates.com  
Collinsville St. Louis Belleville St. Charles  
MISSOURI DESIGN FIRM LICENSE NO. 001166

Drawing Title  
SITE PLAN DETAILS

Approved: Project Director

Project Title  
VASTLHCS DEMOLISH  
SEXTRO WAREHOUSE  
JOHN COCHRAN DIVISION

Location  
ST. LOUIS, MO

Date  
4/25/2018

Checked  
TLC

Drawn  
JRD

Project Number  
657-C31-603JC

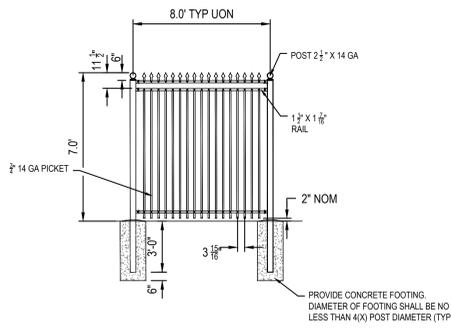
Building Number  
30

Drawing Number  
C3.4

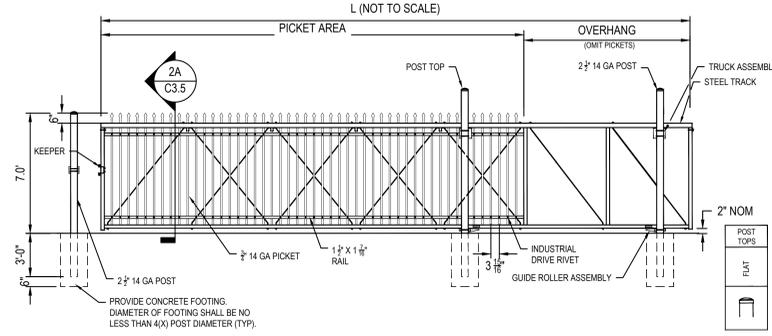
Dwg 20 -OF- 54

VETERANS HEALTH ADMINISTRATION



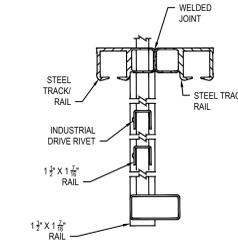


**1 ORNAMENTAL FENCE**  
SCALE: NO SCALE

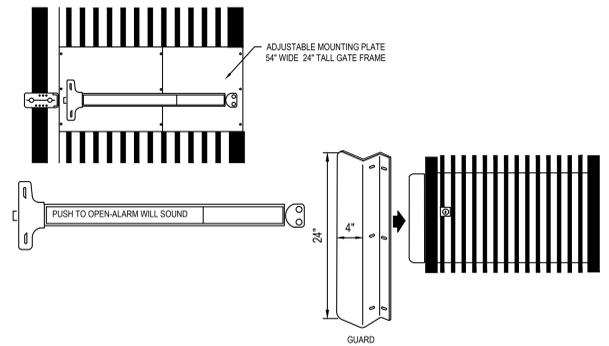


PROVIDE PADLOCKS WITH CORBIN-RUSSWIN LARGE FORMAT 62A1 - 6 PIN FOR ALL GATES.

**2 CANTILEVERED SLIDING GATE**  
SCALE: NO SCALE

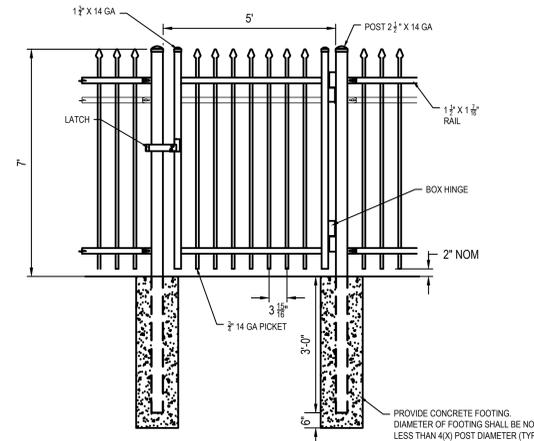


**2A CANTILEVERED SLIDING GATE SECTION (TYP)**  
SCALE: NO SCALE



DAC INDUSTRIES, INC OR EQUIVALENT  
MOUNT TO MANGATE, SEE DETAIL 4, SHEET C3.5  
LOCK TO BE COMPATIBLE WITH CORBIN-RUSSWIN LARGE FORMAT 62A1 - 6 PIN FOR ALL GATES.

**3 EMERGENCY EXIT MANGATE**  
SCALE: NO SCALE

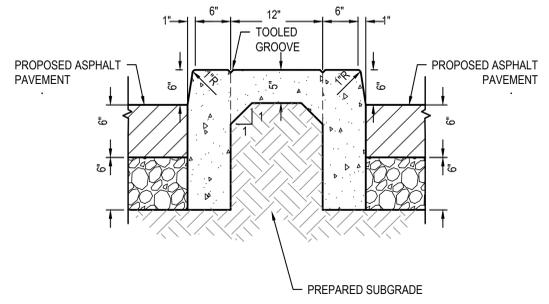


PROVIDE PADLOCKS WITH CORBIN-RUSSWIN LARGE FORMAT 62A1 - 6 PIN FOR ALL GATES (EXCEPT EMERGENCY EXIT WHICH ALREADY HAS A LOCK).

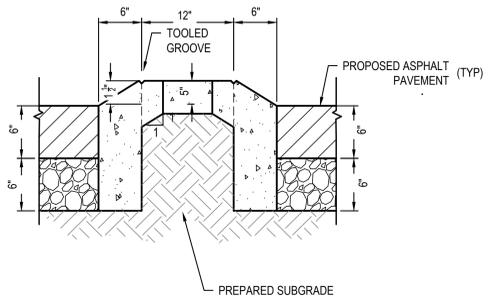
**4 MANGATE**  
SCALE: NO SCALE

**GATE OPERATOR AND CONTROLS:**  
GATE OPERATOR MANUFACTURED BY LINEAR / OSCO, MODEL VS-GSLG.  
MOTOR AND OPERATOR CONTROLS SHALL BE ENCLOSED IN A WATERPROOF, GALVANIZED STEEL CABINET WITH POWDER COATED FINISH. SHALL INCLUDE COLD WEATHER PACKAGE WITH BOX HEATER.  
A NEMA 3 DISCONNECT SHALL BE INSTALLED ON THE GATE OPERATOR.  
THE GATE CONTROLS SHALL INCLUDE SHORT CIRCUIT AND OVERLOAD PROTECTION. INCLUDE PROVISIONS IN 24V CONTROL CIRCUIT FOR NORMALLY OPEN AND/OR NORMALLY CLOSED CONTACTS, FOR REMOTE CONTROL OF THE OPEN COMMAND FOR GATE. TERMINATIONS SHALL BE ON A TERMINAL STRIP. WIRING TO PIG-TAILS IS NOT ACCEPTABLE. INCLUDE AUDIBLE DEVICE FOR NOTIFICATION WHEN GATE IS STARTING TO MOVE.  
INCLUDE OPEN/CLOSE/STOP PUSHBUTTON STATION INSTALLED INSIDE THE CABINET.  
PROVISIONS ON TERMINAL STRIP AND IN CONTROLS FOR SECURITY INTERFACE FOR REMOTE OPEN COMMAND.  
INCLUDE PHOTO EYE THRU BEAM (WITH HEATED HEADS) 'IRS5 INDUSTRIAL THRU-BEAM PHOTOELECTRIC CONTROL' MANUFACTURED BY MMTIC TO PREVENT GATE FROM CLOSING WHEN BEAM IS INTERRUPTED. INCLUDE EDGE SAFETIES ON GATE (MILLER ELECTRIC ME-120). WHERE TAIL OF GATE IS NOT WRAPPED BY FENCE AND EXPOSED, INSTALL EDGE SAFETY ON THE BACK SIDE OF GATE ALSO.  
INCLUDE PAVEMENT LOOP DETECTORS FOR FREE EXIT. ADD SECOND LOOP ON EXTERIOR OF GATE AND GATE OPERATOR TIMER SO CLOSE DOES NOT START UNTIL VEHICLE CLEARS EXTERIOR LOOP. LOOP DETECTOR SHALL BE MODEL # '10MATRX2 S-1224' MANUFACTURED BY BEA INC.  
ADD KEYPED SWITCH WITH 7 PIN BEST LOCK CYLINDER. SWITCH SHALL BE INSTALLED IN WATER PROOF BOX, ON EXTERIOR OF GATE AT CARD READER STAND.

**5 GATE ELECTRIC MOTOR**  
SCALE: NO SCALE



**6 1' WIDE CONCRETE BUFFER**  
SCALE: NO SCALE



**7 1' WIDE DEPRESSED CONCRETE BUFFER**  
SCALE: NO SCALE

three inches = one foot  
one and one-half inches = one foot  
one inch = one foot  
one-half inch = one foot  
three-quarters inch = one foot  
one-quarter inch = one foot  
three-eighths inch = one foot  
one-eighth inch = one foot

No.	Date	Revisions

**CONSULTANTS:**

<b>ARCHITECT:</b> SPUR DESIGN 320 NW 10TH ST., SUITE A OKLAHOMA CITY, OK 73103 PHONE: 405.842.6100 CERTIFICATE OF AUTHORITY: MO #2012034754 (ARCHITECTURE)	<b>CIVIL ENGINEER:</b> OATES ASSOCIATES 700 OLIVE, SUITE 700 ST. LOUIS, MO 63101 PHONE: 314.588.8381 CERTIFICATE OF AUTHORITY: MO #001166 (ENGINEERING)	<b>LAND SURVEYING:</b> GLASPER PROFESSIONAL SERVICES, INC. 13100 MANCHESTER RD., SUITE 85 ST. LOUIS, MO 63101 PH: 314.966.9987 CERTIFICATE OF AUTHORITY: MO #2011027103 (LAND SURVEYING)	<b>ELECTRICAL ENGINEER:</b> SPUR DESIGN 11020 KING ST., SUITE 350 OVERLAND PARK, KS 66210 PH: 913.369.7200 CERTIFICATE OF AUTHORITY: MO #2014031351 (ENGINEERING)
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**CIVIL ENGINEER:**

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www.oatesassociates.com

Collinsville St. Louis Belleville St. Charles  
MISSOURI DESIGN FIRM LICENSE NO. 001166

Drawing Title  
**SITE PLAN DETAILS**

Approved: Project Director

Project Title  
**VASTLHCS DEMOLISH  
SEXTRO WAREHOUSE  
JOHN COCHRAN DIVISION**

Location  
**ST. LOUIS, MO**

Date  
04/25/2018

Checked  
TLC

Drawn  
JRD

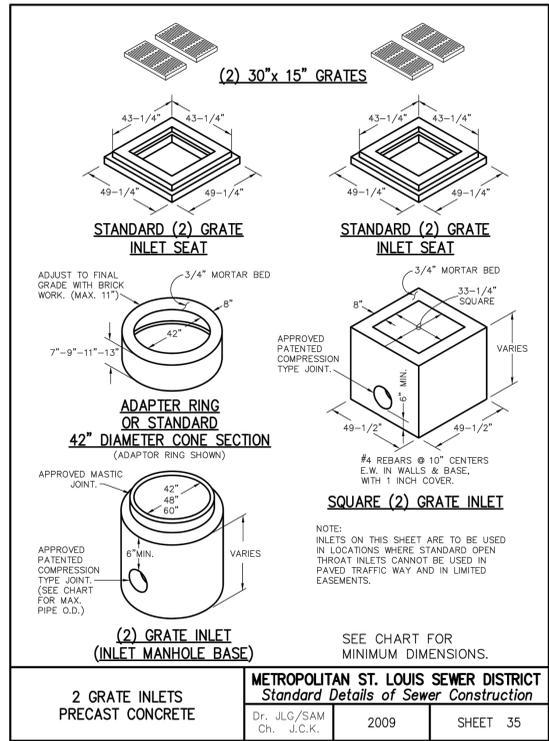
Project Number  
657-C3I-603JC

Building Number  
30

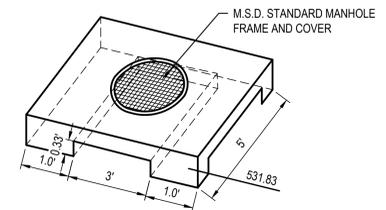
Drawing Number  
**C3.5**

Dwg. 21 -OF- 54

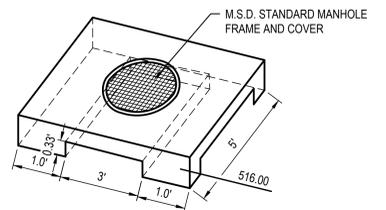




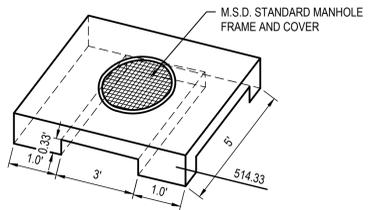
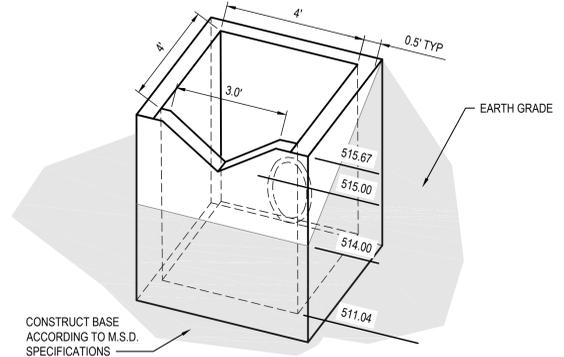
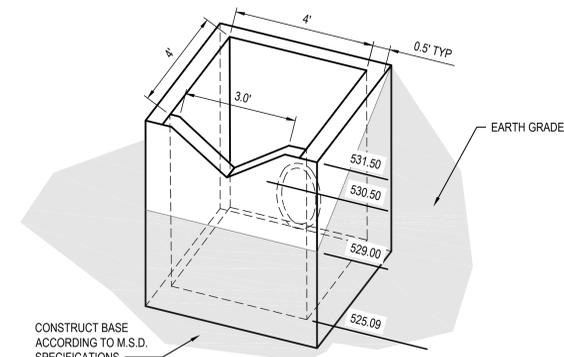
1  
C3.6  
2 GRATE INLETS  
PRECAST CONCRETE  
SCALE: NO SCALE



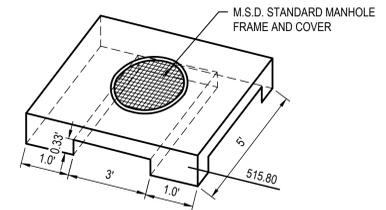
2  
C3.6  
BASIN A BIORETENTION OUTLET STRUCTURE  
SCALE: NO SCALE



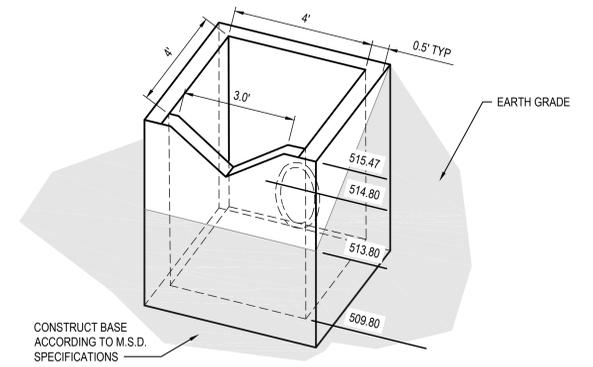
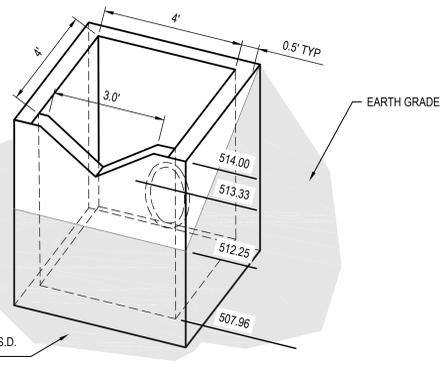
3  
C3.6  
BASIN B BIORETENTION OUTLET STRUCTURE  
SCALE: NO SCALE



4  
C3.6  
BASIN C1 BIORETENTION OUTLET STRUCTURE  
SCALE: NO SCALE



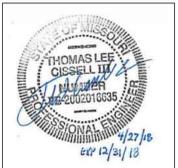
5  
C3.6  
BASIN C2 BIORETENTION OUTLET STRUCTURE  
SCALE: NO SCALE



**MANHOLE SPECIFICATIONS:**  
 CONCRETE: 5000 PSI MIN. 5-6% AIR  
 REINFORCEMENT: WALLS 8x24 GAUGE WWF TO EQUAL. 12 SQ. IN. / V.F. MIN.  
 FLOOR AND TOP SLAB: #4 REBAR @ 8" O.C. BOTH WAYS (CONFORMS TO ASTM  
 C478 AND AASHTO HS-20 STANDARDS)  
 SEALANT: 1" MASTIC ROPE SEALANT ON ALL JOINTS  
 SHOP DRAWINGS: ENGINEER APPROVED SHOP DRAWINGS MUST BE  
 SUBMITTED TO MSD. PRIOR TO THE CONSTRUCTION OF THIS STRUCTURE.  
 MSD CONTACT: BRIAN DUNN (314) 335-2072

**CONSULTANTS:**

<b>ARCHITECT:</b> SPUR DESIGN 320 NW 10TH ST., SUITE A OKLAHOMA CITY, OK 73103 PHONE: 405.842.6100 CERTIFICATE OF AUTHORITY: MO #2012034754 (ARCHITECTURE)	<b>CIVIL ENGINEER:</b> OATES ASSOCIATES 700 OLIVE, SUITE 700 ST. LOUIS, MO 63101 PHONE: 314.588.8381 CERTIFICATE OF AUTHORITY: MO #001186 (ENGINEERING)	<b>LAND SURVEYING:</b> GLASPER PROFESSIONAL SERVICES, INC. 13100 MANCHESTER RD., SUITE 85 ST. LOUIS, MO 63101 PH: 314.966.9987 CERTIFICATE OF AUTHORITY: MO #2011027103 (LAND SURVEYING)	<b>ELECTRICAL ENGINEER:</b> SPUR DESIGN 11020 KING ST., SUITE 350 OVERLAND PARK, KS 66210 PH: 913.369.7200 CERTIFICATE OF AUTHORITY: MO #2014031351 (ENGINEERING)
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St. Louis, MO 63101  
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Collinsville St. Louis Belleville St. Charles  
MISSOURI DESIGN FIRM LICENSE NO. 001166

Drawing Title: **SITE PLAN DETAILS**

Approved: Project Director

Project Title: **VASTLHCS DEMOLISH SEXTRO WAREHOUSE JOHN COCHRAN DIVISION**

Project Number: 657-C3I-603JC

Building Number: 30

Location: **ST. LOUIS, MO**

Date: 04/25/2018

Checked: TLC

Drawn: JRD

Drawing Number: **C3.6**

Dwg. 22 -OF- 54



three inches = one foot  
 one and one-half inches = one foot  
 one inch = one foot  
 one inch = one foot  
 three-quarters inch = one foot  
 one-half inch = one foot  
 three-eighths inch = one foot  
 one-quarter inch = one foot  
 one-eighth inch = one foot

**GENERAL NOTES**

**BUILDING CODE**

- PROJECT IS DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE - 2012 INCLUDING ALL REFERENCED STANDARDS AS LISTED IN CHAPTER 35.
- WHERE CONFLICT OCCURS BETWEEN REFERENCED CODES AND STANDARDS, SPECIFICATIONS, AND GENERAL NOTES, THE MOST STRINGENT REQUIREMENT SHALL GOVERN.

**DESIGN CRITERIA**

- RISK CATEGORY I
- SUPERIMPOSED ROOF DEAD LOAD 5 PSF  
MEPLIGHTING
- FLOOR LIVE LOAD 250 PSF  
HEAVY STORAGE
- ROOF LIVE LOAD 20 PSF  
MINIMUM LIVE LOAD
- ROOF SNOW LOAD 20 PSF  
GROUND SNOW LOAD, P<sub>g</sub>  
FLAT-ROOF SNOW LOAD, P<sub>f</sub>  
TERRAIN CATEGORY B  
SNOW EXPOSURE FACTOR, C<sub>e</sub> 1.0  
IMPORTANCE FACTOR, I<sub>s</sub> 0.80  
THERMAL FACTOR, C<sub>t</sub> 1.2
- WIND DESIGN DATA 105 MPH  
BASIC WIND SPEED, V  
WIND EXPOSURE CATEGORY B  
IMPORTANCE FACTOR, I<sub>w</sub> 1.0  
COMPONENTS & CLADDING DESIGN LOADS DETERMINED BASED ON ASCE 7-10, CHAPTER 30
- EARTHQUAKE DESIGN DATA 1.0  
IMPORTANCE FACTOR, I  
MAPPED SPECTRAL RESPONSE ACCELERATIONS  
SHORT PERIOD PARAMETER, S<sub>s</sub> 0.423  
1 SECOND PARAMETER, S<sub>1</sub> 0.163  
SITE CLASS D  
DESIGN SPECTRAL RESPONSE ACCELERATIONS  
SHORT PERIOD PARAMETER, S<sub>ds</sub> 0.412  
1 SECOND PARAMETER, S<sub>d1</sub> 0.234  
SEISMIC DESIGN CATEGORY D

**DELEGATED DESIGN SUBMITTALS**

- THE DESIGN RESPONSIBILITY FOR THE FOLLOWING SUBMITTALS IS TO BE PERFORMED BY A REGISTERED ENGINEER EMPLOYED BY THE CONTRACTOR:  
PRE-ENGINEERING BUILDING  
PRE-ENGINEERED BUILDING FOUNDATION
- FOR BIDDING PURPOSES, A TYPICAL FOUNDATION AND WALL DESIGN IS PROVIDED TO SHOW DESIGN INTENT. THE OWNER ENVISIONS A ROOF MOUNTED TO THE TOP OF THE WALLS SHOWN. THE ACTUAL DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

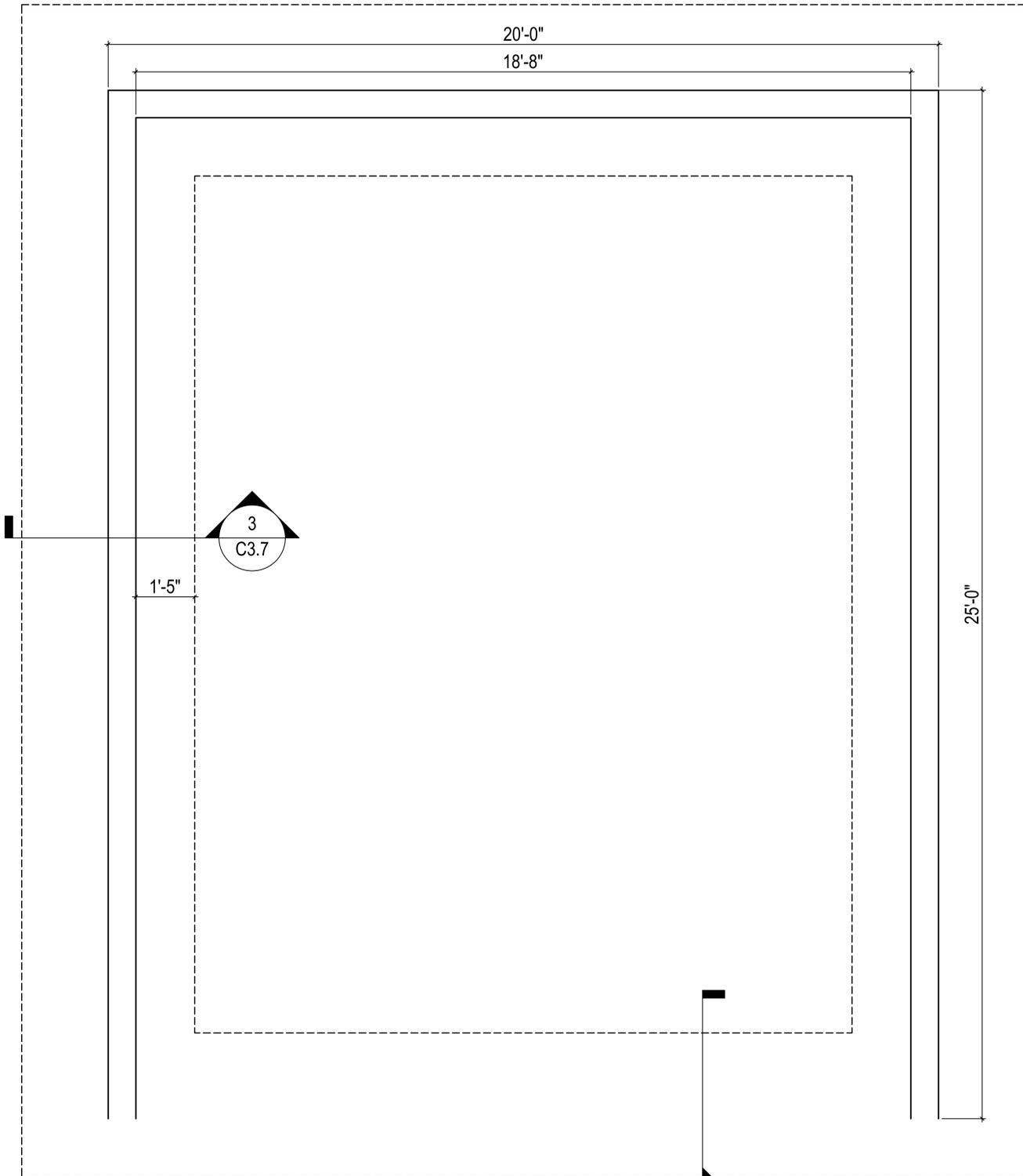
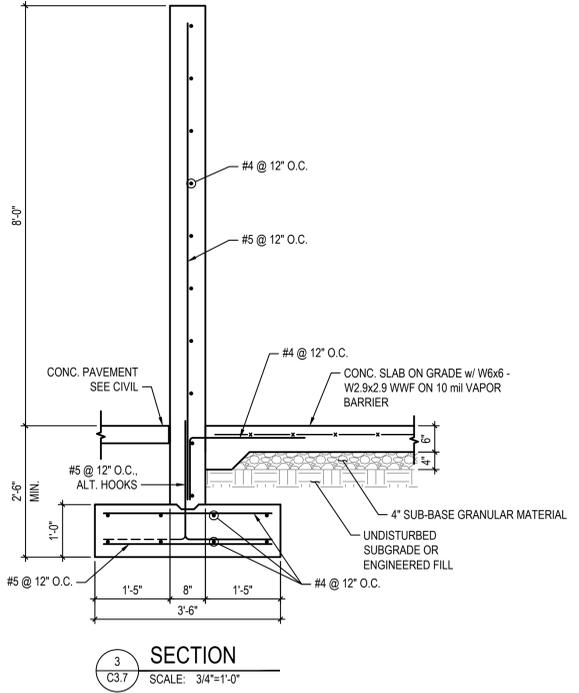
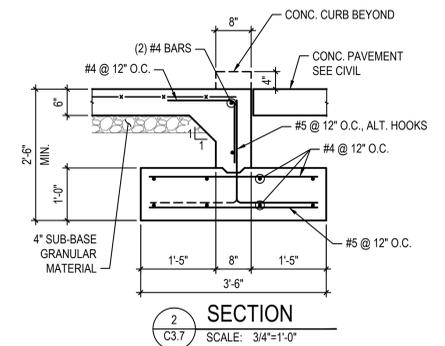
**FOUNDATION**

- FOUNDATIONS SHALL BEAR ON VIRGIN SOILS OR ENGINEERED FILL CAPABLE OF PROVIDING AN ALLOWABLE BEARING PRESSURE OF 1,500 PSF.
- BEARING MATERIALS SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER PRIOR TO CONCRETE PLACEMENT. THE GEOTECHNICAL ENGINEER SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIALS TO MEET THE SPECIFIED CAPACITY. ADJUST BOTTOM OF FOOTING ELEVATIONS AS REQUIRED.
- PROVIDE DEWATERING SYSTEMS AS REQUIRED TO KEEP EXCAVATIONS FREE OF WATER.
- DO NOT PLACE CONCRETE IN EXCAVATIONS WITH ICE OR FROZEN GROUND. PROTECT SUBGRADE AS NECESSARY.
- FOOTINGS PLACED BELOW GRADE MAY BE EARTH FORMED PROVIDED AN ADDITIONAL INCH OF CONCRETE COVER IS PROVIDED ALL AROUND.
- THE CONTRACTOR SHALL SUBMIT, FOR REVIEW, CHECKED SHOP DRAWINGS FOR ALL REINFORCING MATERIALS.

**CONCRETE**

- CONCRETE MATERIALS AND CONSTRUCTION SHALL ADHERE TO THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY", ACI 318, YEAR ACCORDING TO PROJECT BUILDING CODE.
- GENERAL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR STRUCTURAL CONCRETE", ACI 301-10.
- CONCRETE 28-DAY COMPRESSIVE STRENGTH AND DENSITY SHALL BE AS FOLLOWS:  

CONCRETE	STRENGTH, f <sub>c</sub>	DENSITY, pcf
	4000 PSI	145
- REINFORCING SHALL BE EPOXY COATED AND CONFORM TO ASTM A615, GRADE 60 WITH LESS THAN 2 PERCENT DAMAGED COATING IN EACH 12 INCH BAR LENGTH. WELDED WIRE FABRIC SHALL BE EPOXY COATED AND CONFORM TO ASTM A884, CLASS A, TYPE 1 COATED STEEL WIRE WITH LESS THAN 2 PERCENT DAMAGED COATING IN EACH 12 INCH WIRE LENGTH.
- ALL REINFORCING SHALL BE DETAILED, FABRICATED, SUPPORTED, AND PLACED IN ACCORDANCE WITH THE "ACI DETAILING MANUAL" AND CRSI'S "MANUAL OF STANDARD PRACTICE", LATEST EDITIONS.
- REINFORCING SHALL BE PLACED WITH CONCRETE COVER AS SHOWN IN DETAILS. WHERE BAR PLACEMENT IS NOT SHOWN, PROVIDE CONCRETE COVER PER ACI, SECTION 7.7 WITH THE FOLLOWING MINIMUM DIMENSIONS WHERE CONCRETE IS:  
CAST AGAINST EARTH 3 IN  
EXPOSED TO EARTH & WEATHER 2 IN  
NOT EXPOSED, SLABS & WALLS & JOISTS 3/4 IN  
NOT EXPOSED, BEAMS & COLUMNS 1.5 IN
- SPLICE REINFORCING BARS WITH CLASS "B" SPLICES, UNO, PER THE REQUIREMENTS OF ACI, CHAPTER 12. PROVIDE MINIMUM OF 6" LAP SPLICING FOR WWF IN SOG AND 12" FOR ELEVATED SLABS.
- CONCRETE EXPOSED TO FREEZE THAW CYCLES SHALL HAVE 6% AIR ENTRAINMENT. DO NOT AIR ENTRAIN CONCRETE TO BE TROWEL FINISHED.
- CONCRETE FINISHING SHALL CONFORM TO ACI 301.
- CONSTRUCTION JOINTS SHALL BE LOCATED ON THE SHOP DRAWINGS AND ARE SUBJECT TO THE APPROVAL OF THE ENGINEER. LOCATE AT POINTS OF MINIMUM SHEAR. REINFORCING SHALL BE CONTINUOUS THROUGH THE JOINT UNLESS IT ALSO FUNCTIONS AS A CONTROL JOINT (50% PASSES). SUBMIT DETAILS OF CONSTRUCTION JOINTS IN THE SHOP DRAWINGS. HORIZONTAL CONSTRUCTION JOINTS ARE NOT ALLOWED IN WALLS OR SLABS.
- CONTROL JOINTS SHALL BE SPACED AT 15 FOOT MAXIMUM INTERVALS. LAYOUT SHALL CREATE NEARLY SQUARE OR RECTANGULAR (1.5:1 MAX) SECTIONS. SUBMIT CONTROL JOINT LAYOUT FOR APPROVAL.
- PROVIDE 3/4" CHAMFERS AT ALL EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE.



**1 FOUNDATION PLAN**  
SCALE: 3/4"=1'-0"



**2 C3.7**

three inches = one foot  
one and one-half inches = one foot  
one inch = one foot  
three-quarters inch = one foot  
one-half inch = one foot  
three-eighths inch = one foot  
one-quarter inch = one foot  
one-eighth inch = one foot

**BID DOCUMENTS**

No.	Date	Revisions

**CONSULTANTS:**

<p><b>ARCHITECT:</b> SPUR DESIGN 320 NW 10TH ST., SUITE A OKLAHOMA CITY, OK 73103 PHONE: 405.842.6100 CERTIFICATE OF AUTHORITY: MO #2012034754 (ARCHITECTURE)</p>	<p><b>CIVIL ENGINEER:</b> OATES ASSOCIATES 700 OLIVE, SUITE 700 ST. LOUIS, MO 63101 PHONE: 314.588.8381 CERTIFICATE OF AUTHORITY: MO #001166 (ENGINEERING)</p>	<p><b>LAND SURVEYING:</b> GLASPER PROFESSIONAL SERVICES, INC. 13100 MANCHESTER RD., SUITE 85 ST. LOUIS, MO 63101 PH: 314.966.9987 CERTIFICATE OF AUTHORITY: MO #2011027103 (LAND SURVEYING)</p>	<p><b>ELECTRICAL ENGINEER:</b> SPUR DESIGN 11020 KING ST., SUITE 350 OVERLAND PARK, KS 66210 PH: 913.369.7200 CERTIFICATE OF AUTHORITY: MO #2014031351 (ENGINEERING)</p>
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**CIVIL ENGINEER:**

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Collinsville St. Louis Belleville St. Charles  
MISSOURI DESIGN FIRM LICENSE NO. 001166

Drawing Title: **SITE PLAN DETAILS**

Approved: Project Director

Project Title: **VASTLHCS DEMOLISH SEXTRO WAREHOUSE JOHN COCHRAN DIVISION**

Project Number: 657-C51-603JC

Building Number: 30

Location: **ST. LOUIS, MO**

Date: 04/25/2018

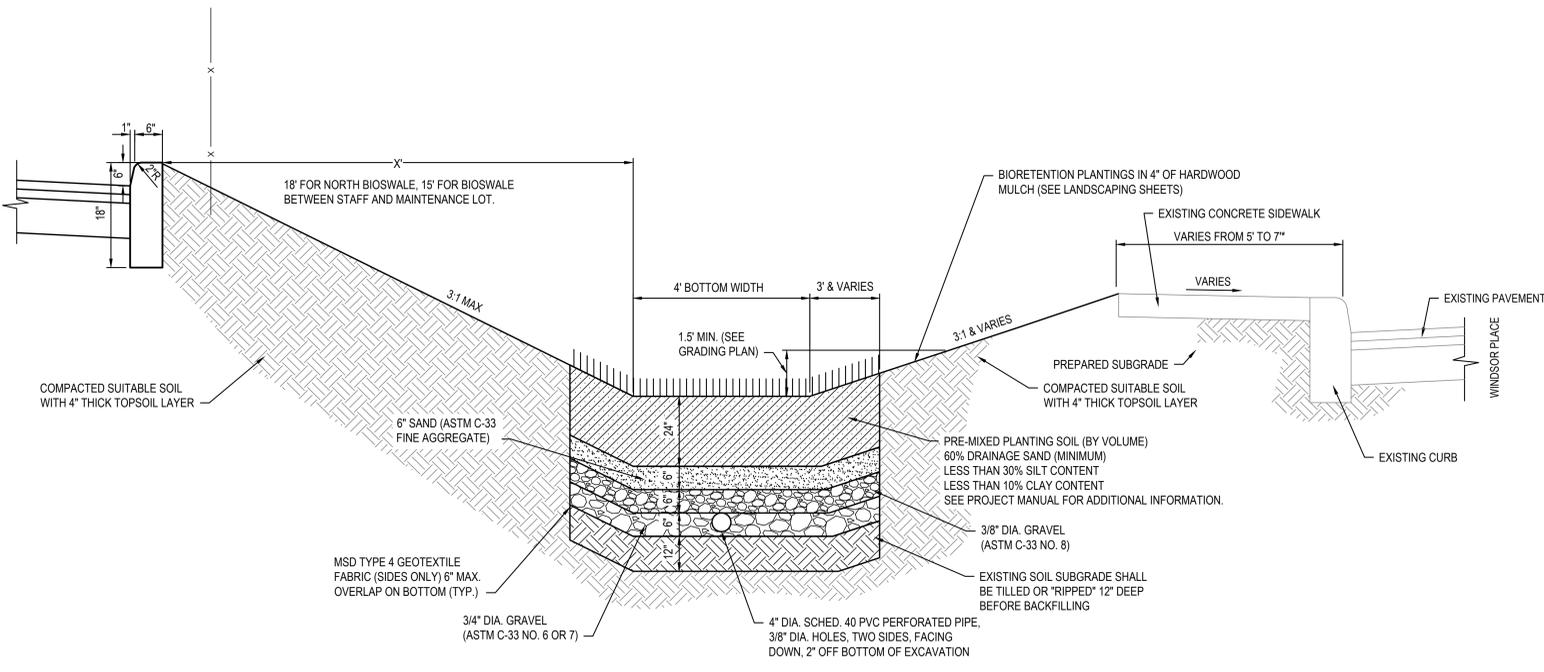
Checked: TLC

Drawn: JRD

Drawing Number: **C3.7**

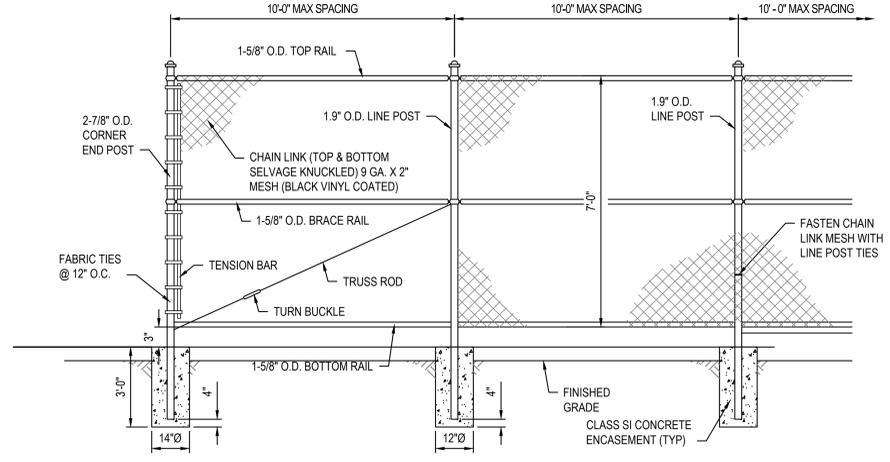
Dwg. 23-OF-54



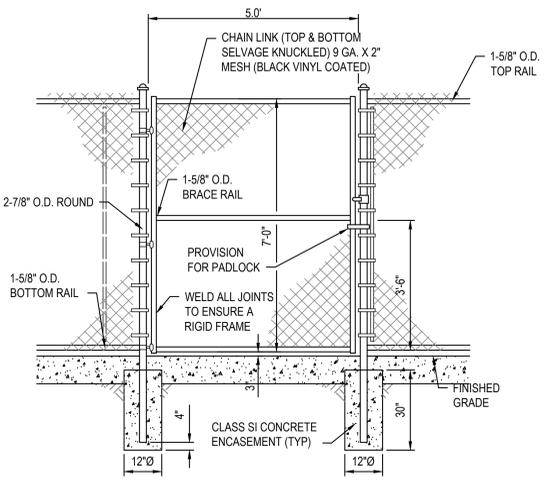


NOTE: SHEET 4.1 WILL BE UPDATED TO REFLECT THIS GRADING IN CONSTRUCTION PHASE IF THE ALTERNATE DESIGN IS CHOSEN OVER THE CURRENT DESIGN.

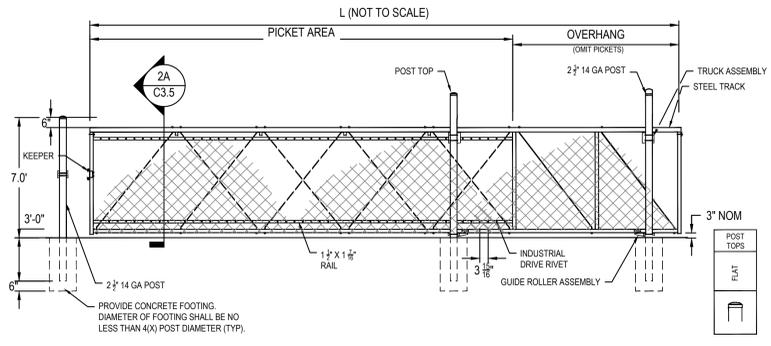
**1 BIORETENTION DETAIL**  
SCALE: NO SCALE



**2 CHAIN LINK FENCE, 7' HIGH**  
SCALE: NO SCALE

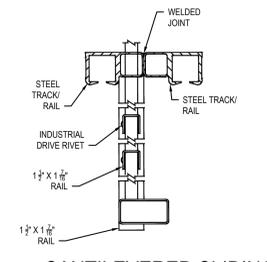


**3 SINGLE GATE FOR 7' FENCE**  
SCALE: NO SCALE



PROVIDE PADLOCKS WITH CORBIN-RUSSWIN LARGE FORMAT 62A1 - 6 PIN FOR ALL GATES.  
REPLACE PICKETS WITH CHAIN LINK (TOP & BOTTOM SELVAGE KNUCKLED) 9 GA. X 2" MESH (BLACK VINYL COATED).  
INSTALL MESH AS DETAILED IN DETAIL 2 OF THIS SHEET.

**4 CANTILEVERED SLIDING GATE**  
SCALE: NO SCALE



**2A CANTILEVERED SLIDING GATE SECTION (TYP)**  
SCALE: NO SCALE

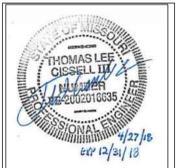
**CONSULTANTS:**

**ARCHITECT:**  
SPUR DESIGN  
320 NW 10TH ST., SUITE A  
OKLAHOMA CITY, OK 73103  
PHONE: 405.842.6100  
CERTIFICATE OF AUTHORITY:  
MO #2012034754 (ARCHITECTURE)

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PHONE: 314.588.8381  
CERTIFICATE OF AUTHORITY:  
MO #001166 (ENGINEERING)

**LAND SURVEYING:**  
GLASPER PROFESSIONAL SERVICES, INC.  
13100 MANCHESTER RD., SUITE 85  
ST. LOUIS, MO 63131  
PHONE: 314.966.9987  
CERTIFICATE OF AUTHORITY:  
MO #2011027103 (LAND SURVEYING)

**ELECTRICAL ENGINEER:**  
SPUR DESIGN  
11020 KING ST., SUITE 350  
OVERLAND PARK, KS 66210  
PHONE: 913.369.7200  
CERTIFICATE OF AUTHORITY:  
MO #2014031351 (ENGINEERING)



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MISSOURI DESIGN FIRM LICENSE NO. 001166

Drawing Title <b>ALTERNATE SITE PLAN DETAILS</b>	
Approved: Project Director	

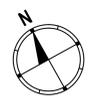
Project Title <b>VASTLHCS DEMOLISH SEXTRO WAREHOUSE JOHN COCHRAN DIVISION</b>		Project Number 657-CSI-603JC	
Location <b>ST. LOUIS, MO</b>		Building Number 30	
Date 04/25/2018	Checked TLC	Drawn JRD	Drawing Number <b>C3.8</b>
		Dwg. 24 -OF- 54	

**BID DOCUMENTS**

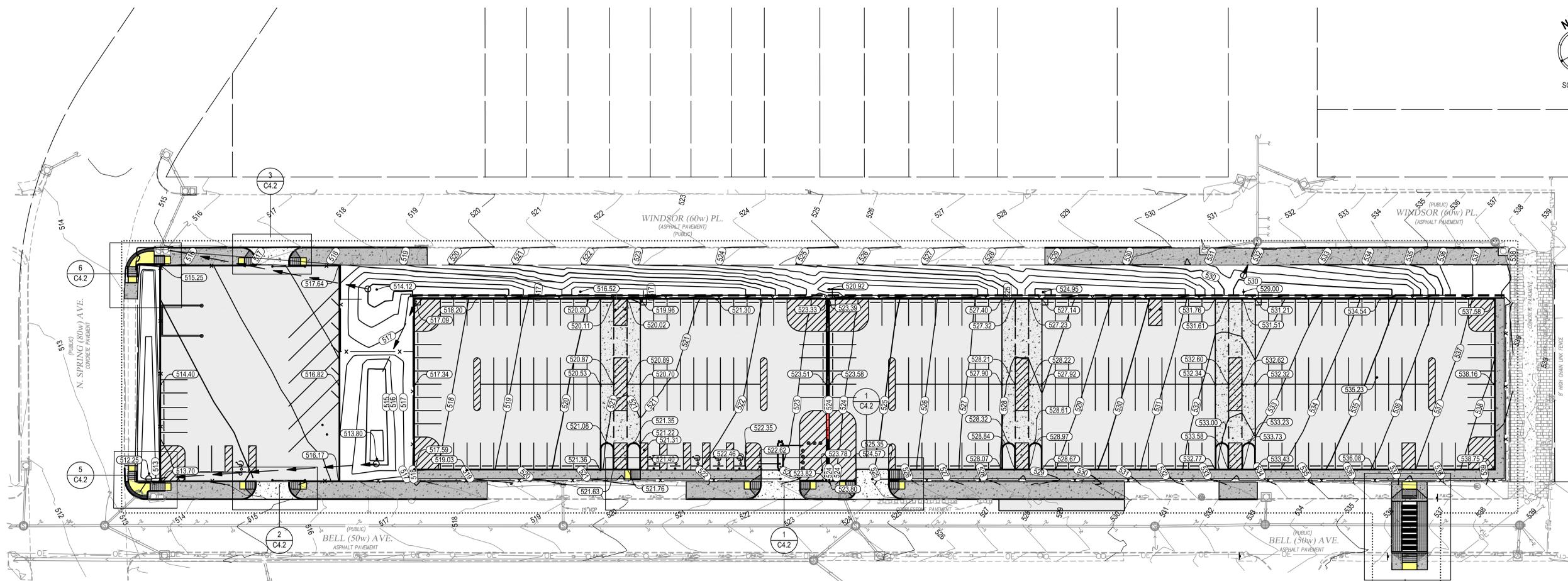
**VETERANS HEALTH ADMINISTRATION**

Department of Veterans Affairs

three inches = one foot  
one and one-half inches = one foot  
one inch = one foot  
one-half inch = one foot  
three-quarters inch = one foot  
one-half inch = one foot  
three-eighths inch = one foot  
one-quarter inch = one foot  
one-eighth inch = one foot



SCALE: 1" = 30'



**NEW WORK LEGEND**

-  ADA COMPLIANT LANDING, < 2% CROSS-SLOPE IN ALL DIRECTIONS
-  ADA COMPLIANT RAMP, < 8% SLOPE WITH < 2% CROSS-SLOPE
-  PROPOSED SIDEWALK ELEVATION
-  PROPOSED EDGE OF PAVEMENT ELEVATION
-  MATCH EXISTING ELEVATION
-  PRE-MIXED PLANTING SOIL (BY VOLUME)
-  NEW BIOSWALE/PLANTINGS AREA SEE DETAIL 5 ON C3.4

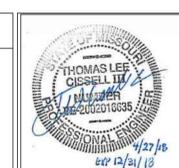
**CONSULTANTS:**

**ARCHITECT:**  
SPUR DESIGN  
320 NW 10TH ST., SUITE A  
OKLAHOMA CITY, OK 73103  
PHONE: 405.842.6100  
CERTIFICATE OF AUTHORITY:  
MO #2012034754 (ARCHITECTURE)

**CIVIL ENGINEER:**  
OATES ASSOCIATES  
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ST. LOUIS, MO 63101  
PHONE: 314.588.8381  
CERTIFICATE OF AUTHORITY:  
MO #0011166 (ENGINEERING)

**LAND SURVEYING:**  
GLASPER PROFESSIONAL SERVICES, INC.  
13100 MANCHESTER RD., SUITE 85  
ST. LOUIS, MO 63131  
PHONE: 314.966.9987  
CERTIFICATE OF AUTHORITY:  
MO #2011027103 (LAND SURVEYING)

**ELECTRICAL ENGINEER:**  
SPUR DESIGN  
11020 KING ST., SUITE 350  
OVERLAND PARK, KS 66210  
PHONE: 913.369.7200  
CERTIFICATE OF AUTHORITY:  
MO #2014031351 (ENGINEERING)



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Collinsville St. Louis Belleville St. Charles  
MISSOURI DESIGN FIRM LICENSE NO. 001166

Drawing Title  
**GRADING PLAN**

Approved: Project Director

Project Title  
**VASTRO WAREHOUSE  
SEXTRO WAREHOUSE  
JOHN COCHRAN DIVISION**

Location  
**ST. LOUIS, MO**

Date  
04/25/2018

Checked  
TLC

Drawn  
JRD

Project Number  
657-C5I-603JC

Building Number  
30

Drawing Number  
**C4.1**

Dwg. 25-OF-54

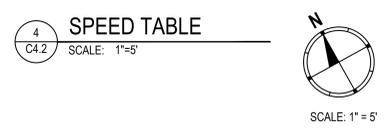
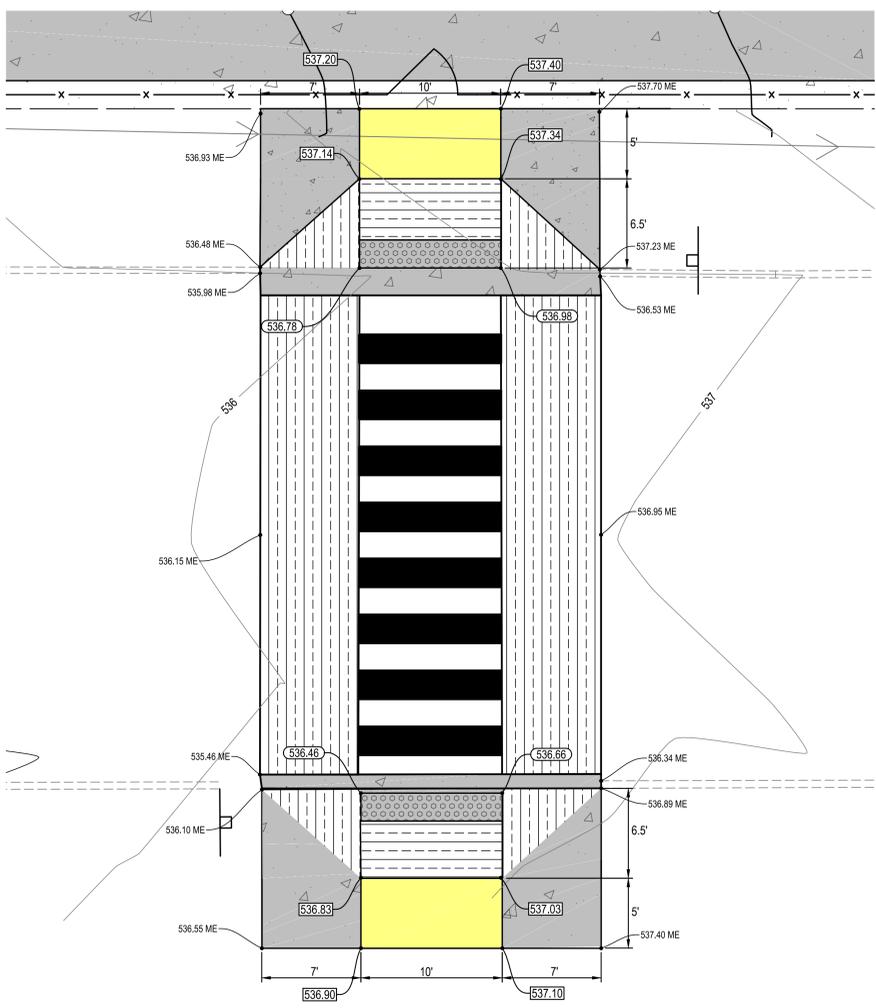
**BID DOCUMENTS**

**VETERANS  
HEALTH  
ADMINISTRATION**

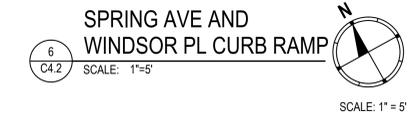
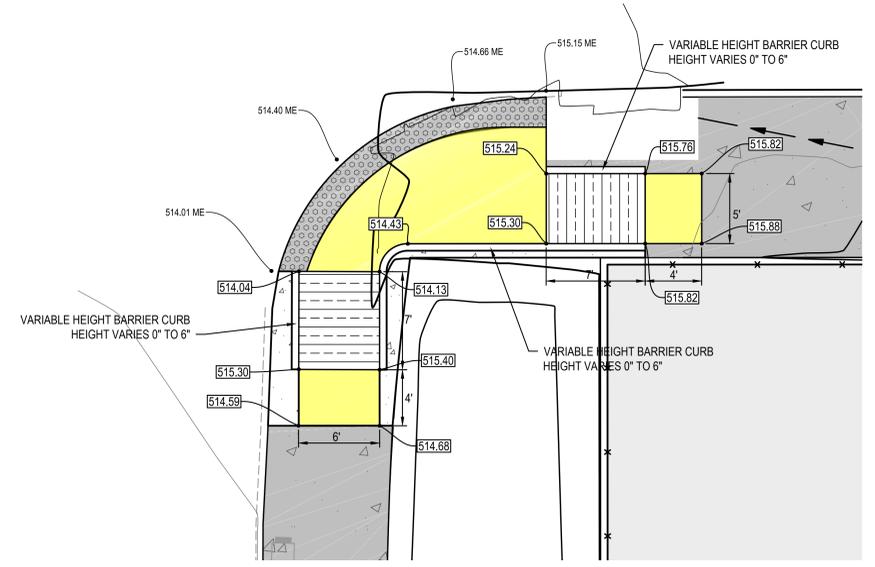
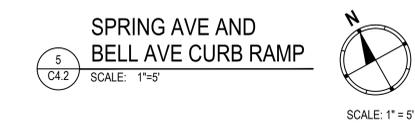
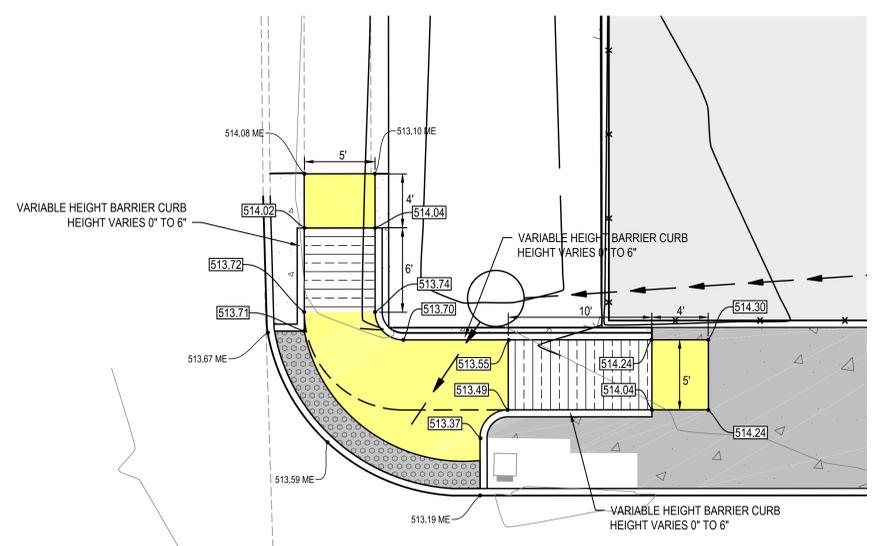


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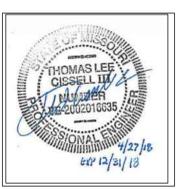
- NEW WORK LEGEND**
- ADA COMPLIANT LANDING, < 2% CROSS-SLOPE IN ALL DIRECTIONS
  - ADA COMPLIANT RAMP, < 8% SLOPE WITH < 2% CROSS-SLOPE
  - PROPOSED SIDEWALK ELEVATION
  - PROPOSED EDGE OF PAVEMENT ELEVATION
  - XXX.XX ME MATCH EXISTING ELEVATION



BID DOCUMENTS

**CONSULTANTS:**

<p><b>ARCHITECT:</b> SPUR DESIGN 320 NW 10TH ST., SUITE 700 OKLAHOMA CITY, OK 73103 PHONE: 405.842.6100 CERTIFICATE OF AUTHORITY: MO #2012034754 (ARCHITECTURE)</p>	<p><b>CIVIL ENGINEER:</b> OATES ASSOCIATES 700 OLIVE, SUITE 700 ST. LOUIS, MO 63101 PHONE: 314.588.8381 CERTIFICATE OF AUTHORITY: MO #001166 (ENGINEERING)</p>	<p><b>LAND SURVEYING:</b> GLASPER PROFESSIONAL SERVICES, INC. 13100 MANCHESTER RD., SUITE 85 ST. LOUIS, MO 63131 PH: 314.966.9987 CERTIFICATE OF AUTHORITY: MO #2011027103 (LAND SURVEYING)</p>	<p><b>ELECTRICAL ENGINEER:</b> SPUR DESIGN 11020 KING ST., SUITE 350 OVERLAND PARK, KS 66210 PH: 913.369.7200 CERTIFICATE OF AUTHORITY: MO #2014031351 (ENGINEERING)</p>
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MISSOURI DESIGN FIRM LICENSE NO. 001166

Drawing Title	GRADING DETAILS
Approved: Project Director	

Project Title	VASTLHCS DEMOLISH SEXTRO WAREHOUSE JOHN COCHRAN DIVISION
Project Number	657-CSI-603JC
Building Number	30
Location	ST. LOUIS, MO
Date	04/25/2018
Checked	TLC
Drawn	JRD
Drawing Number	C4.3
	Dwg. 27 -OF- 54



three inches = one foot  
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