VSM Abrasives Corporation

PART OF THE NORTHWEST 1/4 OF SECTION 27, TOWNSHIP 47 NORTH, RANGE 3 EAST, AS PER DEED RECORDED IN DEED BOOK 862 PAGE 511 AND DEED BOOK 1657 PAGE 885, EXCEPTING THEREFROM THAT PORTION CONVEYED TO THE CITY OF O'FALLON MISSOURI BY SPECIAL WARRANTY DEED RECORDED IN DEED BOOK 3645 PAGE 57 OF THE ST. CHARLES COUNTY LAND RECORDS OFFICE IN ST. CHARLES COUNTY, MISSOURI



PROPERTY DATA

PHONE COMPANY

WATER DISTRICT

PH. 636-272-3493

N.T.S.

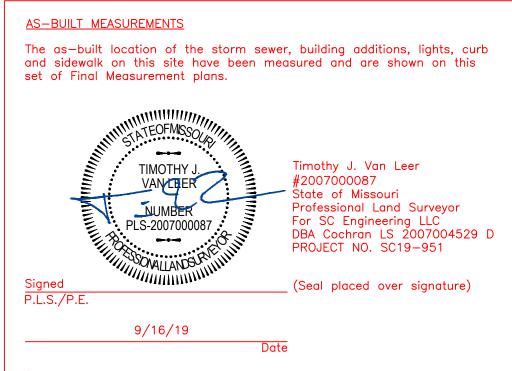
= VSM ABRASIVES CORPORATION **ADDRESS** = 1012 E. WABASH STREET O'FALLON, MO 63366 PARCEL II = 2-0056-S027-00-0009.1100000 SITE AREA $= 17.23 \pm ACRES OR 750,681 \pm S.F.$ ZONING = "I-1" LIGHT INDUSTRIAL FIRE DISTRICT = O'FALLON FIRE DISTRICT SCHOOL DISTRICT = FORT ZUMWALT SEWER DISTRICT = CITY OF O'FALLON WATER SHED = BELLEAU CREEK WATERSHED FEMA MAP = PANEL NUMBER 29183C0241G, 290316 JAN. 20, 2016 ELECTRIC COMPANY = AMEREN UE = LACLEDE GAS COMPANY GAS COMPANY

= AT&T

= CITY OF O'FALLON

LITH ITV CONTACTO

UTILITY CONTACTS							
	SANITÁRY SEWER	=	CITY OF O'FALLON WATER & SEWER 100 N. MAIN ST. O'FALLON, MO. 63366 636–379–7605 CONTACT: MIKE PRATT	ELECTRIC SERVICE	=	AMEREN UE — Boone Trails Division 200 N. CALLAHAN ROAD WENTZVILLE, MO. 63385 DANIEL GIESSMANN PH. (636) 639—8336	
	STORM SEWER	=	STORM SEWER CITY OF O'FALLON 100 N. MAIN ST. O'FALLON, MO. 63366 636-281-2858	GAS SERVICE	=	CELL (636) 357-2978 FAX (636) 639-8256 EMAIL: DGiessmann@Ameren.com	
	WATER DISTRICT	=	CITY OF O'FALLON WATER & SEWER 100 N. MAIN ST. O'FALLON, MO. 63366 636–379–7605 CONTACT: MIKE PRATT	GAS SERVICE	-	1999 TRADE CENTER DRIVE ST. PETERS, MO 63376 MARK DEMLING PH. (314) 575–9090	
	FIRE DISTRICT	=	O'FALLON FIRE PROTECTION DISTRICT 111 LAURA K DRIVE O'FALLON, MO 63366 ATTN. FIRE CHIEF THOMAS VINEYARD	PHONE SERVICE	=	TELEPHONE CENTURY TEL 1151 CENTURY TEL DR. WENTZVILLE, MO. 63385 636-332-7261	



The professional whose signature and personal seal appears above assumes responsibility only for the as—built final measurement plans and therefore disclaims (pursuant to Section 327.411 RSMO) other items on these plans, specifications, estimates, reports, or other documents or instruments not sealed by the undersigned professional relating to or intended to be used for any part or parts of the project to which these plans refer.

SHEET INDEX

TITLE SHEET

SPECIFICATION SHEET OVERALL SITE PLAN EXISTING CONDITIONS AND FACILITIES REMOVAL PLAN SITE AND GRADING PLAN SITE GEOMETRY AND UTILITY PLAN C7 SEWER DETAILS AND PROFILES C8 SITE DETAILS BEST MANAGEMENT PRACTICE PLAN BEST MANAGEMENT PRACTICE DETAILS C11 DRAINAGE AREA MAP C12 STORM WATER POLLUTION PREVENTION PLAN C13 STORM WATER POLLUTION PREVENTION PLAN DETAILS

APPROVED 09/23/2019 Jeannie Greenlee

CONSTRUCTION WORK HOURS

LANDSCAPE PLAN

LIGHTING PLAN

LP-1

* CITY OF O'FALLON CONSTRUCTION WORK HOURS PER CITY ORDINANCE 3429 AS SHOWN IN SECTION 500.420 OF THE MUNICIPAL CODE OF THE CITY OF O'FALLON ARE AS FOLLOWS:

> OCTOBER 1 THROUGH MAY 31 7:00 A.M. TO 7:00 P.M. MONDAY THROUGH SUNDAY JUNE 1 THROUGH SEPTEMBER 30 6:00 A.M. TO 8:00 P.M. MONDAY THROUGH FRIDAY 7:00 A.M. TO 8:00 P.M. SATURDAY AND SUNDAY

CIVIL ENGINEERING DESIGN CONSULTANTS, INC. AND THE UNDERSIGNED ENGINEER HAVE NO RESPONSIBILITY FOR SERVICES PROVIDED BY OTHERS TO IMPLEMENT THE IMPROVEMENTS SHOWN ON THIS PLAN AND ALL OTHER DRAWINGS WHERE THE UNDERSIGNED ENGINEER'S SEAL APPEARS. THE CONSTRUCTION MEANS, METHODS & MATERIALS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR CIVIL ENGINEERING DESIGN CONSULTANTS, INC. HAS NO RESPONSIBILITY TO VERIFY FINAL IMPROVEMENTS AS SHOWN ON THIS PLAN UNLESS SPECIFICALLY ENGAGED AND AUTHORIZED TO DO SO BY THE OWNER OR CONTRACTOR.

<u>UTILITY NOTE:</u>
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORDS AND INFORMATION, AND , THEREFORE DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE FACILITIES, STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319 RSMo.

NOTES TO CONTRACTOR: 1. CONTRACTOR/SUBCONTRACTOR SHALL INVESTIGATE, ASCERTAIN AND CONFORM TO ANY AND ALL PERMIT REQUIREMENTS OF THE (ANY) VARIOUS AFFECTED UTILITY COMPANIES AND/OR REGULATORY AGENCIES WITH REGARDS TO MAKING CONNECTIONS TO; OR CROSSINGS OF THEIR FACILITIES; WORKING WITHIN THEIR RIGHT-OF-WAY OR EASEMENTS; INSPECTIONS AND ASSOCIATED MONETARY CHARGES; AND/OR SPECIAL BACKFILL REQUIREMENTS. SUCH INVESTIGATION TO

INCLUDE BUT NOT LIMITED TO THE MAKING OF NECESSARY APPLICATIONS AND PAYMENTS OF ALL REQUIRED FEES. 2. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORDS AND INFORMATION, AND , THEREFORE DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE FACILITIES, STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY

3. THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS OR PROFILES ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR/SUBCONTRACTOR TO VERIFY THE FIELD LOCATIONS. ANTICIPATED CLEARANCES AND THE EXISTENCE OF ANY FACILITIES NOT SHOWN HEREON, AS

SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319 RSMo.

PART OF THE INVESTIGATIONS IN THE PARAGRAPH ABOVE. 4. THE DEMOLITION PLAN IS FOR ILLUSTRATION OF THE GENERAL DEMOLITION ANTICIPATED FOR THIS PARTICULAR SITE. THE DEMOLITION PLAN DOES NOT REPRESENT ALL CONDITIONS THAT MAY BE ENCOUNTERED DURING DEMOLITION/CONSTRUCTION. THE CONTRACTOR SHALL MAKE HIMSELF THOROUGHLY FAMILIAR WITH THE SITE AND THE DEMOLITION/CONSTRUCTION REQUIREMENTS PRIOR TO BIDDING. THE INTENT OF THE DEMOLITION IS TO PROVIDE A CLEAN STABLE SITE, READY FOR CONSTRUCTION OF THE PROJECT IN CONFORMANCE WITH THE CONSTRUCTION PLANS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS THAT ARE IN KEEPING WITH THIS INTENT.

5. CITY APPROVAL OF ANY CONSTRUCTION SITE PLANS DOSE NOT MEAN THAT ANY BUILDING CAN BE CONSTRUCTED ON THE LOTS WITHOUT MEETING THE BUILDING SETBACKS AS REQUIRED BY THE ZONING CODES.

6. ALL INSTALLATIONS AND CONSTRUCTION SHALL CONFORM TO THE APPROVED ENGINEERING DRAWINGS. HOWEVER, IF THE DEVELOPER CHOOSES TO MAKE MINOR MODIFICATIONS IN DESIGN AND/OR SPECIFICATIONS DURING CONSTRUCTION, THEY SHALL MAKE SUCH CHANGES AT THEIR OWN RISK, WITHOUT ANY ASSURANCE THAT THE CITY ENGINEER WILL APPROVE THE COMPLETED INSTALLATION OR

7. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO NOTIFY THE CITY ENGINEER OF ANY CHANGES FROM THE APPROVED DRAWINGS. THE DEVELOPER MAY BE REQUIRED TO CORRECT THE INSTALLED IMPROVEMENT SO AS TO CONFORM TO THE APPROVED ENGINEERING DRAWINGS. THE DEVELOPER MAY REQUEST A LETTER FROM THE CONSTRUCTION INSPECTION DIVISION REGARDING ANY FIELD CHANGES APPROVED BY THE CITY INSPECTOR.

8. LIGHTING VALUES WILL BE REVIEWED ON SITE PRIOR TO THE FINAL OCCUPANCY

The underground utilities have been plotted from available sources and their locations must be considered approximate only. The verification of the actual locations of all underground utilities, either shown or not shown on this drawing, shall be the responsibility of the contractor and shall be located prior to grading or construction of improvements.

MISSOURI ONE CALL TICKET NUMBER 182052830

The utilities contacted by Missouri One Call were Ameren Missouri Electric, CTLCL— Centurylink, Charter Communications, City of O'Fallon Water & Sewer and Spire Mo East.



PLANNING & DEVELOPMENT DIVISION NUMBER - 18-008860. PLANS APPROVED OCTOBER 4, 2018

PROPERTY OWNER: VSM ABRASIVES CORPORATION 1012 E. WABASH STREET O'FALLON, MO 63366

PH. (636) 272-7432 PREPARED FOR: M+H Architects 2150 Schuetz Road, Suite 200 St. Louis, MO 63146 314-878-3500 314-218-2927 direct

PREPARED BY:

314-878-3900 fax



LEGEND

_____433_____

433 ----

= = = =

—— SAN ——— SAN ———

_ _ _ _ _ _ _

× 433.28

T.B.R.

T.B.R.& R.

U.I.P.

A.T.G.

F.C.

— w — w — w —

— c — c — c —

_____T____T____

—— DHE ——— DHE ———

— E — E — E —

____x ___x ___

EXISTING CONTOURS

PROPOSED CONTOURS

EXISTING STORM SEWER

PROPOSED STORM SEWER

EXISTING SANITARY SEWER

EXISTING SPOT ELEVATION

PROPOSED SPOT ELEVATION

TO BE REMOVED & RELOCATED

TO BE USED IN PLACE

UNDERGROUND TELEPHONE

UNDERGROUND ELECTRIC

SILTATION CONTROL

ADJUST TO GRADE

BACK OF CURB

FACE OF CURB

OVERHEAD WIRE

FIRE HYDRANT

POWER POLE

WATER VALVE

LIGHT STANDARD

CONC

DB

ELEV

(T.B.R.&R.)

ABBREVIATIONS

NORTH

SOUTH

CONCRET

ASPHALT

PLAT BOOK

DEED BOOK

ELEVATION

FLOWLINE

SANITARY

TO BE REMOVED

HYDRAULIC GRADE

STORM

SAVE

SQUARE FEET

FINISH FLOOR

POLYVINYL CHLORIDE PIPE

REINFORCED CONCRETE PIPE

TO BE REMOVED AND REPLACED

EAST

PAGE

ACRES

WATER MAIN

GAS MAIN

RIGHT-OF-WAY

EASEMENT

CENTERLINE

SWALE

EXISTING TREE

TO BE REMOVED

PROPOSED SANITARY SEWER

BENCHMARK NAVD 88 using the Trimble R6 utilizing the MODOT Network.

SITE BENCHMARK

Eley. 514.13' — "L" cut on corner of concrete pad as shown on this survey.

LAND DESCRIPTION

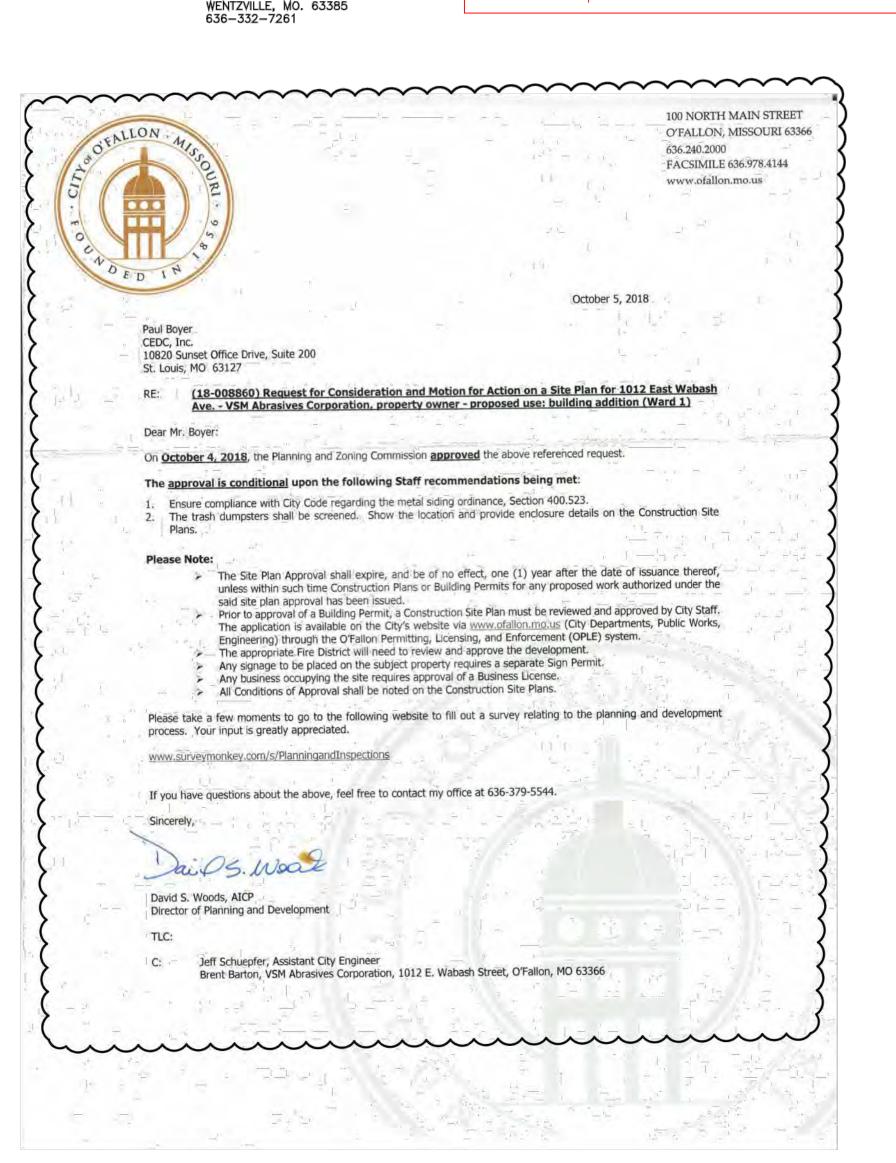
A TRACT OF LAND BEING PART OF THE NORTHWEST 1/4 OF SECTION 27, TOWNSHIP 47 NORTH, RANGE 3 EAST, ST. CHARLES COUNTY, MISSOURI, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT AN OLD IRON PIPE MARKING THE COMMON CORNER OF SECTIONS 21, 22, 28, AND 27, SAID OLD IRON PIPE ALSO BEING IN THE CENTERLINE OF WABASH AVENUE (40' WIDE - ASSUMED); THENCE DUE SOUTH ALONG THE COMMON LINE BETWEEN SECTIONS 27 AND 28, 20.00 FEET TO AN IRON PIPE IN THE SOUTHERN RIGHT OF WAY LINE OF WABASH AVENUE; SAID IRON PIPE MARKS THE TRUE POINT OF BEGINNING OF THE TRACT HEREIN DESCRIBED; THENCE SOUTH 89' 16'58" EAST ALONG SAID RIGHT OF WAY LINE 750.00 FEET TO AN IRON PIPE; THENCE LEAVING SAID RIGHT OF WAY LINE DUE SOUTH 1045.00 FEET TO AN IRON PIPE; THENCE NORTH 89° 16' 58" WEST 750.00 FEET TO AN IRON PIPE IN THE COMMON LINE BETWEEN SECTIONS 27 AND 28; THENCE DUE NORTH ALONG SAID SECTION LINE 1045.00 FEET TO THE POINT OF BEGINNING, AS SURVEYED BY PICKETT, RAY AND

EXCEPTING THERE-FROM A CERTAIN PARCEL OF LAND CONTAINING 5 ACRES THAT WAS CONVEYED TO VSM ABRASIVE CORPORATION IN GENERAL WARRANTY DEED DATED MARCH 23, 1978 AND RECORDED MARCH 30, 1978 IN BOOK 794, PAGE 1449 OF THE ST. CHARLES COUNTY RECORDS; ALSO EXCEPTING THEREFROM THAT PORT CONVEYED TO THE CITY OF O'FALLON, MISSOURI, BY SPECIAL WARRANTY DEED RECORDED SEPTEMBER 17, 2003 IN BOOK 3645, PAGE 57 OF THE ST. CHARLES COUNTY, MISSOURI, RECORDS.

A TRACT OF LAND BEING PART OF THE NORTHWEST 1/4 OF SECTION 27, IN TOWNSHIP 47 NORTH, RANGE 3 EAST, ST. CHARLES COUNTY, MISSOURI, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT AN OLD IRON PIPE MARKING THE COMMON CORNER OF SECTIONS 21, 22 28 AND 27 SAID OLD IRON PIPE ALSO BEING IN THE CENTERLINE OF WABASH AVENUE (40' WIDE ASSUMED); THENCE DUE SOUTH ALONG THE COMMON LINE BETWEEN SECTIONS 27 AND 28, 20.00 FEET TO AN IRÔN PIPE IN THE SOUTHERN RIGHT OF WAY LINE OF WABASH AVENUE, SAID IRON PIPE MARKS THE TRUE POINT OF BEGINNING OF THE TRACT HEREIN DESCRIBED; THENCE SOUTH 89 DEGREES 16' 58" EAST ALONG RIGHT OF WAY LINE 330.00 FEET TO AN IRON PIPE; THENCE LEAVING SAID RIGHT OF WAY LINE DUE SOUTH 660.00 FEET TO AN IRON PIPE; THENCE NORTH 89 DEGREES 16' 58" WEST 330.00 FEET TO AN IRON PIPE IN THE COMMON LINE BETWEEN SECTIONS 27 AND 28; THENCE DUE NORTH ALONG SAID SECTION LINE 660.00 FEET TO THE POINT OF BEGINNING AS SURVEYED BY PICKETT RAY AND SILVER, INC.

FLOOD ZONE NOTES

By graphic plotting only, this property lies within unshaded zone X (areas determined to be outside the 0.2% annual chance floodplain) according to the Flood Insurance Rate Map Panel Number 29183C0241G, (St Charles County, Missouri) which bears an effective of January 20, 2016.





ARCHITECTS

Mitchell and Hugeback Architects, Inc.

ARCHITECT:

314-878-3500

www.mha.us.com

CONSULTANTS:

St. Louis, MO 63127 314-729-1400

SSC Engineering, Inc.

18207 Edison Ave.

636-530-7770

(Design - Build)

St. Louis, MO 63005

Structural:

D.B.A. M+H Architects

St. Louis, Missouri 63146

2150 Schuetz Road, Suite 200

Corporate License No.: 000614

Civil Engineering Design Consultants, Inc.

10820 Sunset Office Drive, Suite 200

Corporate License No.:2003004674

Corporate License No.: 001244

PAUL K. BOYER, P.E. E-28258 CIVIL ENGINEER CEDC LICENSE NO.: 2003004674

DESCRIPTION: PROGRESS SET

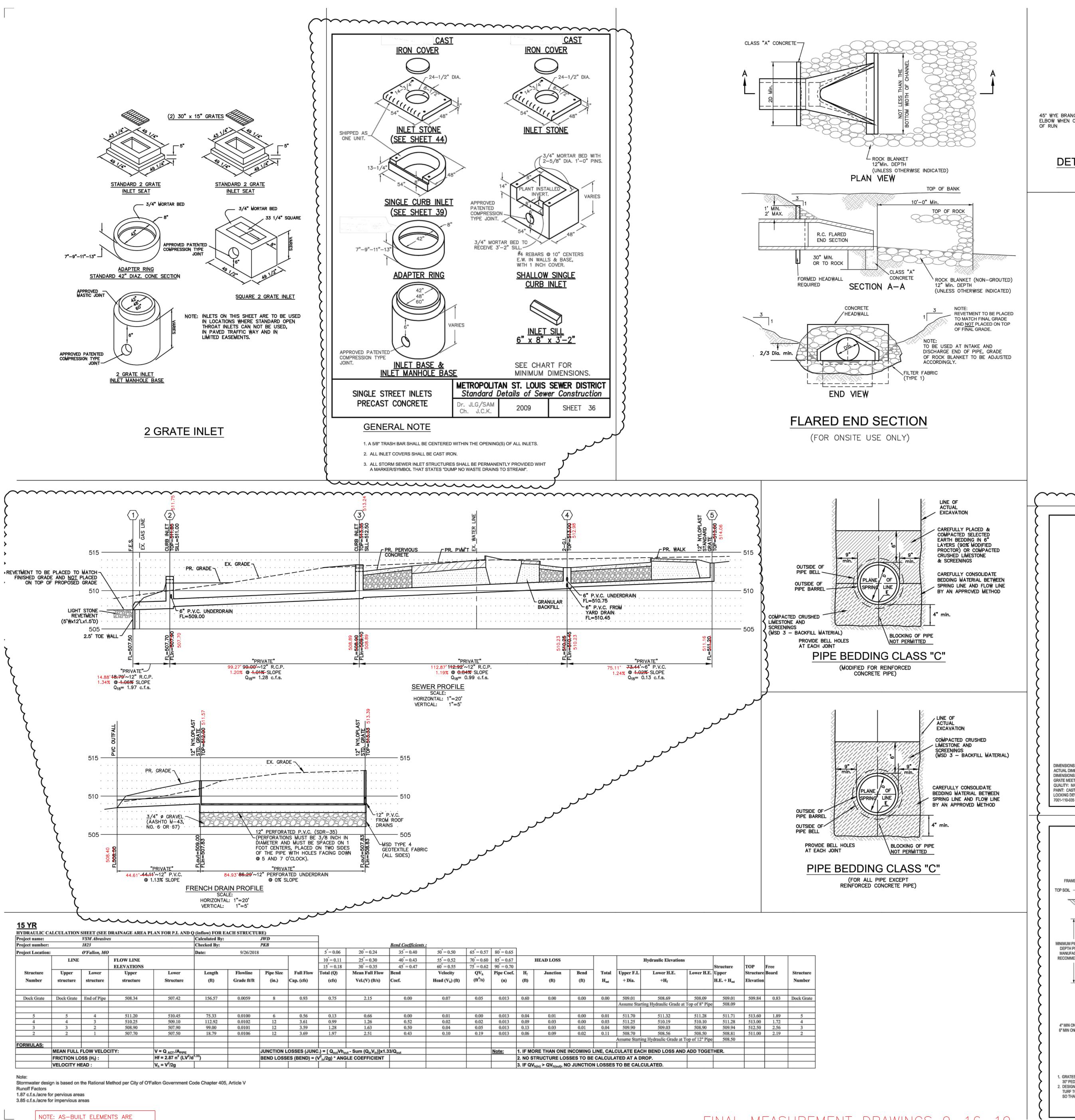
> PERMIT SET 10-5-18 ADDENDUM A 10-19-18 11-27-18 ADDENDUM B

8-31-18

Issue Date:	10-5-18
Job Number:	1823
Drawn By:	РКВ
Checked By:	PKB

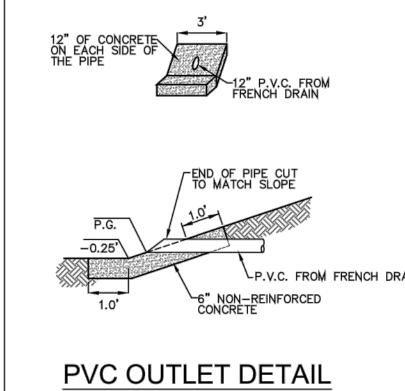
Drawing Title:

Title Sheet



SHOWN AND NOTED IN RED ABOVE.

, IRON FERRULE WITH METAL COUNTER SUNK SCREW FINISHED GRADE FORMED SQUARE CONCRETE COLLAR 45° WYE BRANCH, USE 45° ELBOW WHEN ON END OR BUILDING SERVICE LINE DETAIL OF SEWER CLEANOUT



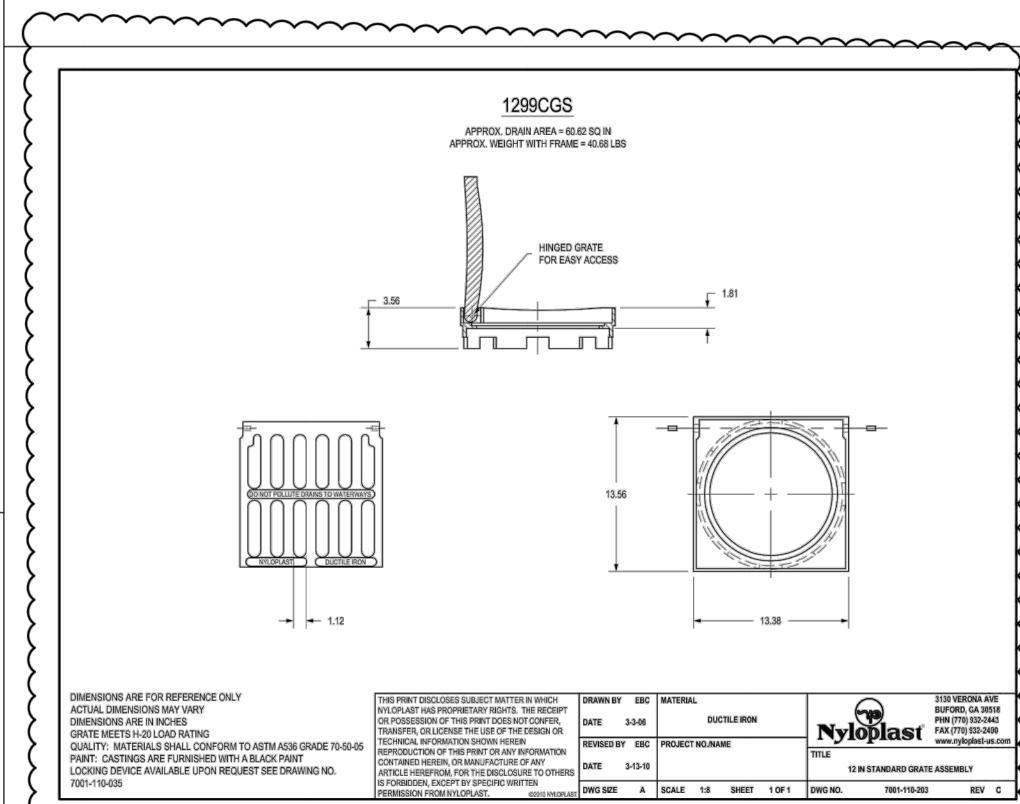
(FRENCH DRAIN PIPE OUTFALL)

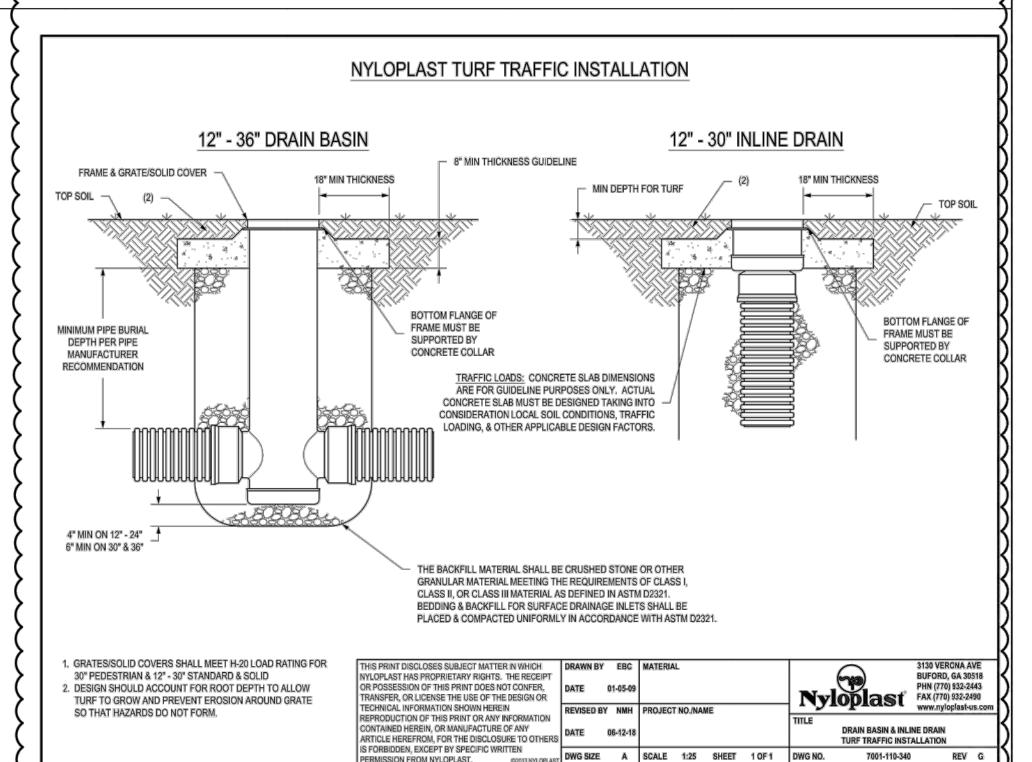
REVETMENT (SEE NOTE) SEE PLAN 1' INTO SOIL 1.5' LIGHT STONE REVETMENT "MIRAFI" 160NS GEOTEXTILE FABRIC OR EQUAL 2.0' HEAVY STONE REVETMENT

ROCK BLANKET NOTES:

1. STONE FOR LIGHT STONE REVETMENT SHALL BE AT LEAST 6 INCH TO 8 INCH DIAMETER. 2. STONE FOR HEAVY STONE REVETMENT SHALL BE AT LEAST 12 INCH DIAMETER. 3. TOP OF REVETMENT TO BE PLACED TO MATCH PROPOSED GRADE AND NOT PLACED ON TOP OF PROPOSED GRADE.

> **ROCK BLANKET DETAIL** (FOR LOCATIONS SEE PLANS)







ARCHITECT:

Mitchell and Hugeback Architects, Inc. D.B.A. M+H Architects 2150 Schuetz Road, Suite 200 St. Louis, Missouri 63146 314-878-3500 www.mha.us.com Corporate License No.: 000614

CONSULTANTS:

Civil Engineering Design Consultants, Inc. 10820 Sunset Office Drive, Suite 200 St. Louis, MO 63127 314-729-1400 Corporate License No.:2003004674

Structural: SSC Engineering, Inc.

18207 Edison Ave. St. Louis, MO 63005 636-530-7770 Corporate License No.: 001244

(Design - Build)



PAUL K. BOYER, P.E. E-28258 CIVIL ENGINEER CEDC LICENSE NO.: 2003004674

8-31-18 10-5-18

10-19-18

11-27-18

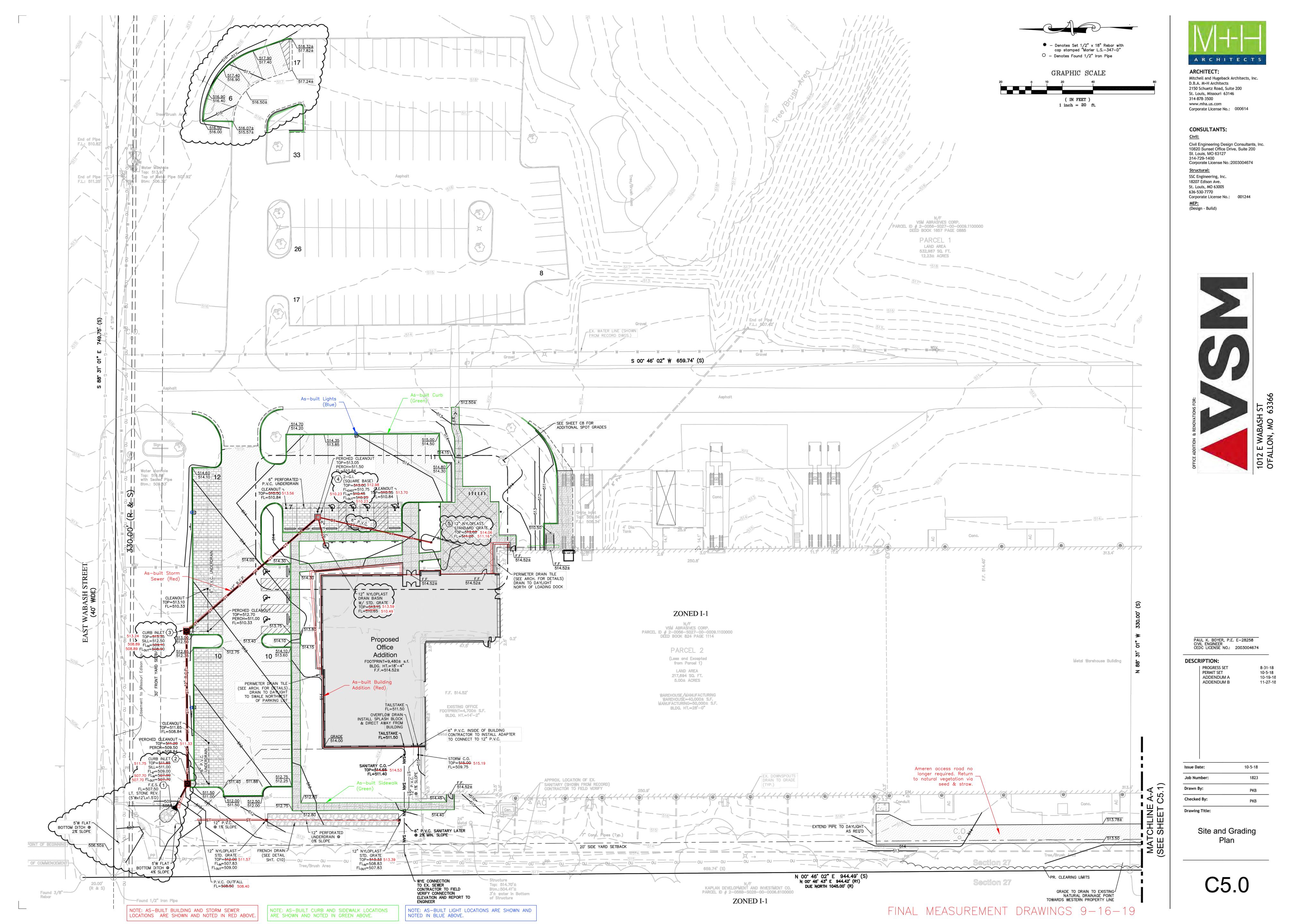
DESCRIPTION: PROGRESS SET

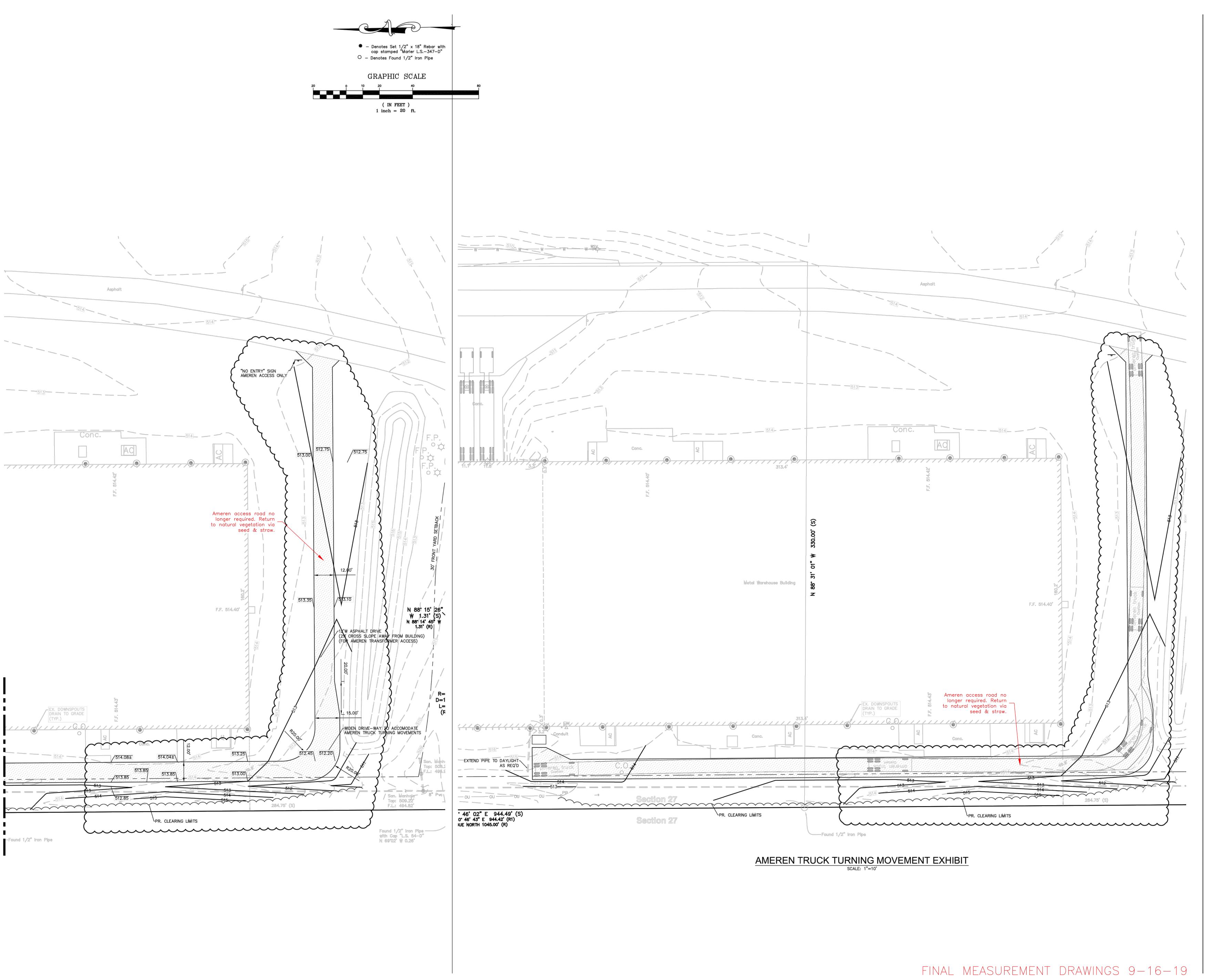
PERMIT SET ADDENDUM A ADDENDUM B

10-5-18 Job Number: 1823 Drawn By: Checked By: PKB

Drawing Title:

Sewer Details and Profiles







ARCHITECT:
Mitchell and Hugeback Architects, Inc.

D.B.A. M+H Architects
2150 Schuetz Road, Suite 200
St. Louis, Missouri 63146
314-878-3500
www.mha.us.com
Corporate License No.: 000614

CONSULTANTS:

Civil:

Civil Engineering Design Consultants, Inc. 10820 Sunset Office Drive, Suite 200 St. Louis, MO 63127 314-729-1400 Corporate License No.:2003004674

Structural:
SSC Engineering, Inc.
18207 Edison Ave.

18207 Edison Ave.
St. Louis, MO 63005
636-530-7770
Corporate License No.: 001244
MEP:

MEP: (Design - Build)



PAUL K. BOYER, P.E. E-28258 CIVIL ENGINEER CEDC LICENSE NO.: 2003004674

> 8-31-18 10-5-18 10-19-18 11-27-18

CIVIL ENGINEER
CEDC LICENSE NO.: 20030046

PROGRESS SET
PERMIT SET
ADDENDUM A
ADDENDUM B

Issue Date: 10-5-18

Job Number: 1823

Drawn By: PKB

Drawing Title:

Checked By:

Site and Grading Plan

C5.1