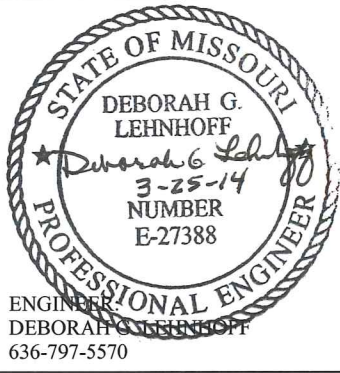


CONTACT INFORMATION			
1-800-DIG-RITE			
OWNER		ELECTRIC	
JEFFERSON COUNTY		AMEREN	
REPRESENTATIVE:	JASON JONAS, P.E.	REPRESENTATIVE:	JIM HOVIS
ADDRESS:	725 MAPLE STEET	ADDRESS:	6450 HWY MM
	HILLSBORO, MO 63050		HOUSE SPRINGS, MO 63051
PHONE:	(636) 797-5340	PHONE:	(636) 671-6155
TELEPHONE		WATER	
AT&T		PWSD 6	
REPRESENTATIVE:	GLENN HOGENMILLER	REPRESENTATIVE:	TOM WARD
ADDRESS:	122 N. 2nd St	ADDRESS:	6000 KINGSWAY DR
	FESTUS, MO 63028		HOUSE SPRINGS, MO 63051
PHONE:	(636) 931-7525	PHONE:	(636) 671-4096
CABLE		SEWER	
CHARTER		HOUSE SPRINGS SEWER	
REPRESENTATIVE:	DARYL STEFFEN	REPRESENTATIVE:	PAT FRIBIS
ADDRESS:	815 CHARTER COMMONS DR	ADDRESS:	4095 COUNTRY CLUB DR
	TOWN & COUNTRY, MO 63107		IMPERIAL, MO 63052
PHONE:	(636) 387-8663	PHONE:	(636) 636-282-1855

GRAVOIS ROAD IMPROVEMENTS AT MAIN STREET

JEFFERSON COUNTY, MISSOURI
FEDERAL PROJECT NO. STP-5403 (637)



SHEET INDEX

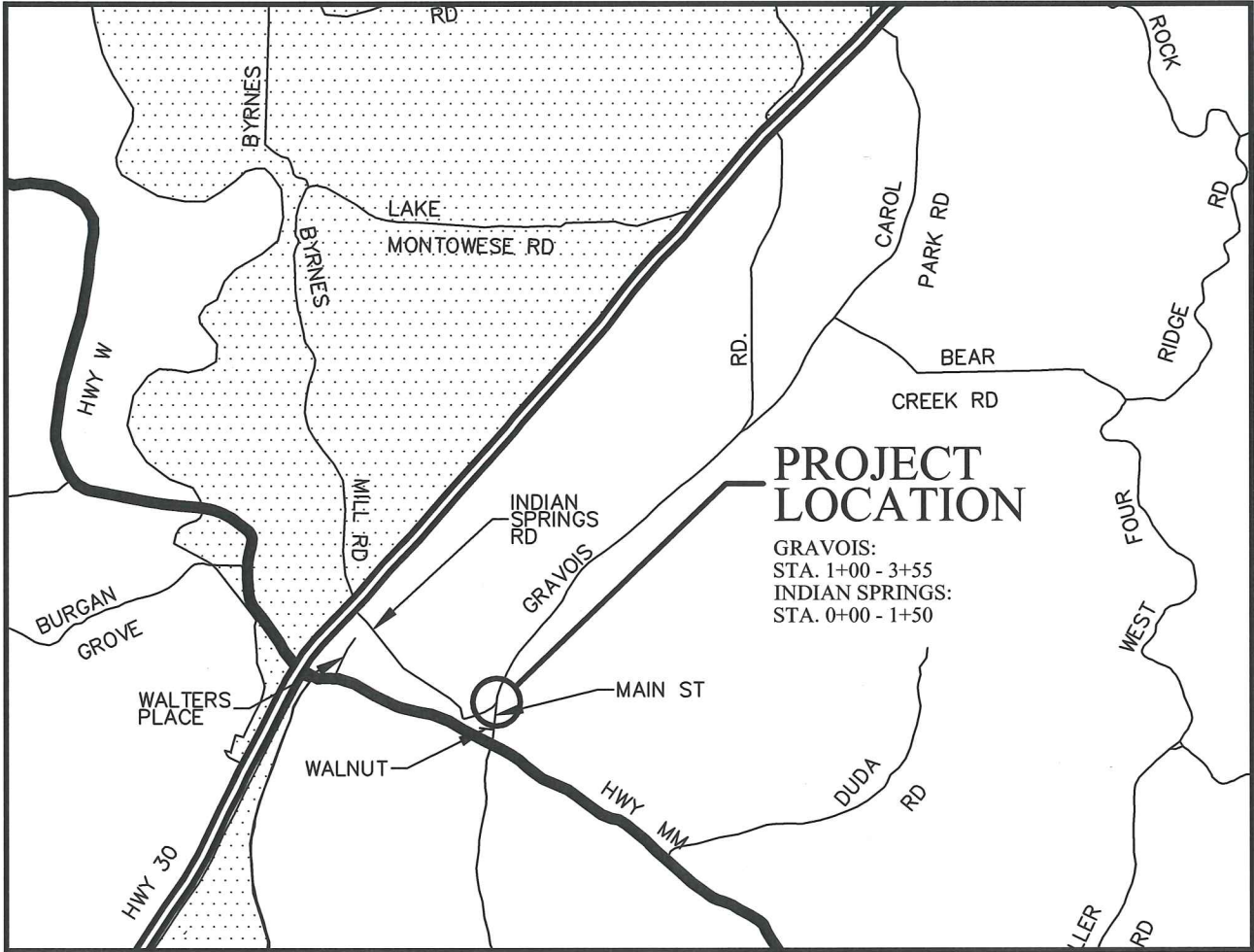
SHEET NAME	SHEET NO.
TITLE	1
SUMMARY OF QUANTATIES	2A
SCHEDULE OF QUANTITIES	2B
TYPICAL SECTIONS	3
OVERALL PLAN	4
PLAN / PROFILE	5 - 6
TRAFFIC CONTROL PLAN	7 - 8
EROSION CONTROL	9
STRIPING	9
BRIDGE GUARDRAIL DETAIL	10
CROSS SECTIONS	11 - 15

STANDARD DRAWINGS

606.00AS	GUARDRAIL
606.23I	BRIDGE ANCHOR SECTION
806.10H	TEMPORARY EROSION CONTROL MEASURES

DESIGN DESIGNATION

FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL
CURRENT ADT	7501 (2011)
% TRUCKS	12.1%
SPEED LIMIT (GRAVOIS)	45 MPH
SPEED LIMIT (MAIN ST.)	35 MPH
DESIGN SPEED	35 MPH



NOT TO SCALE
US SURVEY 666, SEC 3 & 4, T42N, 4E

FINAL PLANS

PREPARED
February 3, 2014

LEGEND	
	EX. EDGE ROADWAY
	EX. GUARDRAIL
	EX. CENTERLINE
	EX. CREEK CENTERLINE
	EX. PIPE
	RIGHT OF WAY
	PROPOSED GUARDRAIL
	PROPOSED EDGE OF ROADWAY
	SILT FENCE
	CONSTRUCTION LIMITS

APPROVED BY:
JEFFERSON COUNTY
725 MAPLE ST
HILLSBORO, MO 63050

DIRECTOR OF PUBLIC WORKS

DATE

3/25/14

Item No.	Item Description	Unit	Quantity
ROADWAY ITEMS			
201-30.00	Clearing and Grubbing	Acre	0.1
202-20.10	Removal of Improvements	LS	1
203-50.00	Unclassified Excavation	Cu. Yd.	957
304-05.04	Type 5 Aggregate for Base (4 in. thick)	Sq. Yd.	1314
401-12.09	Bitumimous Pavement Mixture PG64-22 (BP-1)	Ton	132
401-30.00	Bitumimous Pavement Mixture PG64-22 (Base)	Ton	527
407-10.05	Tack Coat	Gal	55
606-10.11A	Guardrail Type A (7' Post @ 3'-1.5")	Lin. Ft.	300
606-23.01A	Transition Section (7.5' Posts)	Each	4
606-24.00	Bridge Anchor Section (Thrie Beam)	Each	4
606-30.15	Type A Crashworthy End	Each	2
606-99.02	Guardrail End Section	Each	1
613-10.14	Full Depth Saw Cut	Lin. Ft.	75
618-10.00	Mobilization	LS	1
713-40.00	Bridge Guard Rail (Thri Beam)	Lin. Ft.	98
SIGNING/STRIPING ITEMS			
616-10.05	Construction Signs	Sq. Ft.	393
616-10.31	Type III Moveable Barricade with light	Each	9
620-60.00B	4" White Acrylic Waterborne Pavement Marking Paint	Lin. Ft.	955
620-60.01B	4" Yellow Acrylic Waterborne Pavement Marking Paint	Lin. Ft.	776
620-61.24	24" White Acrylic Waterborne Pavement Marking Paint	Lin. Ft.	24
620-80.65	Temporary Raised Pavement Marker, Type 2	Each	10
LANDSCAPE ITEMS			
805-20.00A	Seeding - Warm Season Mixture	Acre	0.1
806-10.19	Silt Fence	Lin. Ft.	288



GRAVOIS RD. IMPROVEMENT AT MAIN ST.
STP-5403 (637)

PUBLIC WORKS DEPARTMENT
JEFFERSON COUNTY, MO.
TYPICAL SECTIONS

DRAWN BY:
BED

CHKD. BY:
DGL

DATE:
02/03/2014

SCALE:
NTS

PLAN SHEET:
2A

PERMANENT PAVEMENT MARKING						
ROADWAY	STATION	STATION	4" SOLID WHITE (LF)	4" SOLID YELLOW (LF)	24" SOLID WHITE (LF)	REMARKS
GRAVOIS	1+00	3+55	510	510	0	
INDIAN SPRINGS	0+12	1+50	445	266	24	
TOTAL:			955	776	24	

PAVEMENT QUANTITIES							
ROADWAY	STATION	STATION	LENGTH	TYPE 5 AGGREGATE FOR BASE (4" THICK) (SQYD)	TACK COAT (GAL)	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BASE) 8" (TON)	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1) 2" (TON)
GRAVOIS	1+00	3+55	255	680	34	325	81.5
INDIAN SPRINGS	0+12	1+50	138	424	21	202	50.5
GRAVOIS SHOULDER	1+00	4+08	308	166			
INDIAN SPRINGS SHOULDER	0+12	1+25	113	44			
TOTAL:				1314	55	527	132.0

TRAFFIC CONTROL DEVICES						
SIGN	SIZE (IN x IN)	AREA (SQFT)	QUANTITY	TOTAL AREA (SQFT)	TYPE III MOVABLE BARRICADES WITH LIGHT (EA)	DESCRIPTION
WO20-1	48X48	16	3	48		
WO20-3	48X48	16	3	48		
WO16-2	30X24	5	2	10		
WO16-2	30X24	5	2	10		
R11-4	60X30	12.5	3	37.5		
R11-2	48X30	10	10	100		
G020-2	24X24	8	3	24		
special 1	48x36	12	4	48		
special 2	48x36	12	3	36		
MO4-8A	24x18	3	1	3		
SPECIAL SIGN	48X42	14	2	28		
Type III					9	
TOTAL:				392.5	9	

FULL DEPTH SAWCUT		
ROADWAY	STATION	FULL DEPTH SAW CUT (LF)
GRAVOIS	1+00	24
GRAVOIS	3+55	24
INDIAN SPRINGS	1+50	27
TOTAL:		75

GUARDRAIL								
ROADWAY	STATION	STATION	TYPE A GUARDRAIL (LF)	BRIDGE ANCHOR SECTION (EACH)	TRANSITION SECTION (EACH)	END SECTION (EACH)	TYPE A CRASHWORTHY (LF)	THRIE BEAM (LF)
GRAVOIS	1+00	4+08	207	4	4	1	2	98
INDIAN SPRINGS	0+12	1+25	93	0	0	0	0	0
TOTAL:			300	4	4	1	2	98

REMOVAL OF IMPROVEMENTS = 1 LUMP SUM			
ROADWAY	STA	STA	DESCRIPTION
GRAVOIS	1+00	3+55	ASPHALT PAVEMENT (6269 S.F.)
INDIAN SPRINGS	0+12	1+50	ASPHALT PAVEMENT (5173 S.F.)
INDIAN SPRINGS	0+12	1+25	GUARDRAIL TO BE REMOVED (50')
INDIAN SPRINGS	1+25	1+50	GUARDRAIL HEIGHT TO BE ADJUSTED AS DIRECTED BY ENGINEER (25')
GRAVOIS	1+50	2+75	REMOVE STOP SIGN (2)
GRAVOIS	2+50	4+00	REMOVE OBJECT MARKERS (4)
INDIAN SPRINGS	0+73	—	RELOCATE STOP SIGN ON INDIAN SPRINGS
GRAVOIS	3+75	—	RELOCATE MAILBOX
GRAVOIS	0+00	4+23	RELOCATE SIGNS AS DIRECTED BY ENGINEER
INDIAN SPRINGS	0+00	1+50	RELOCATE SIGNS AS DIRECTED BY ENGINEER

TEMPORARY EROSION CONTROL				
ROADWAY	STATION	STATION	LOCATION	SILT FENCE (LF)
GRAVOIS	1+00	2+86	L	180
GRAVOIS	2+63	3+16	R	58
INDIAN SPRINGS	0+75	1+25	L	50
TOTAL:				288

CLEARING & GRUBBING = 0.1 ACRES

MOBILIZATION = 1 LUMP SUM

SEEDING = 0.1 ACRES

TEMPORARY RAISED PAVEMENT MAKERS, TYPE 2 = 10 EACH

EARTH WORK SUMMARY				
ROADWAY	STATION	STATION	UNCLASSIFIED EXCAVATION (CUYD)	EMBANKMENT IN PLACE (CUYD)
GRAVOIS	1+00	4+00	585.9	0
INDIAN SPRINGS	0+12	2+00	371.1	0
TOTAL:			957	0



GRAVOIS RD. IMPROVEMENT AT MAIN ST.
STP-5403 (637)

PUBLIC WORKS DEPARTMENT
JEFFERSON COUNTY, MO.
TYPICAL SECTIONS

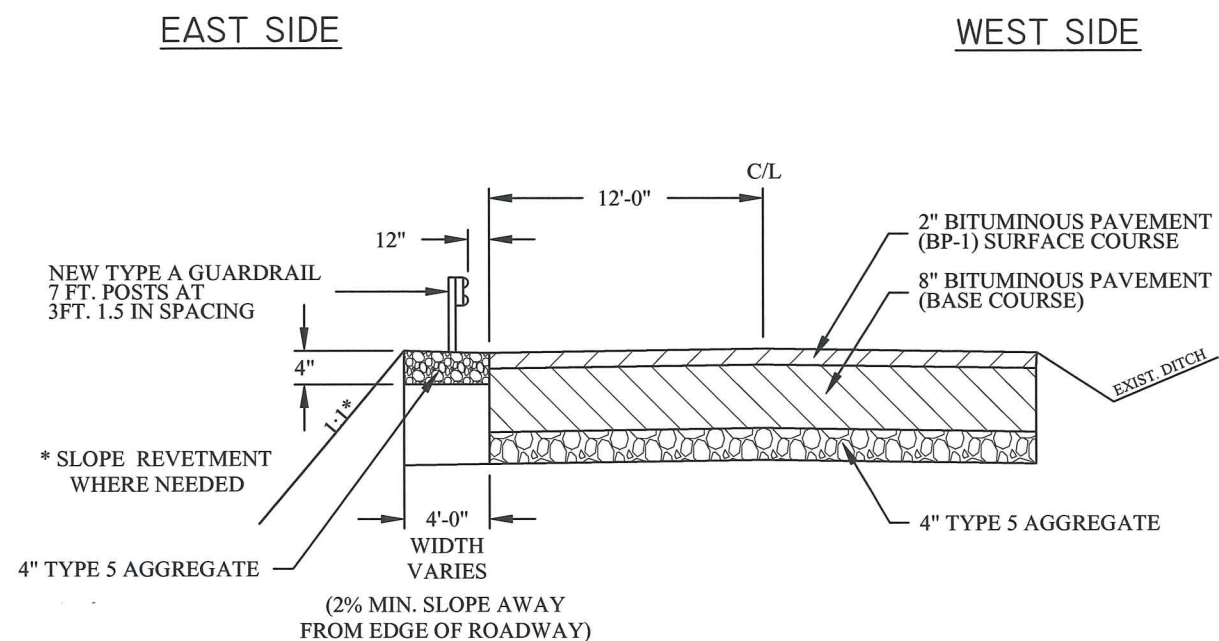
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BED

CHKD. BY:
DGL

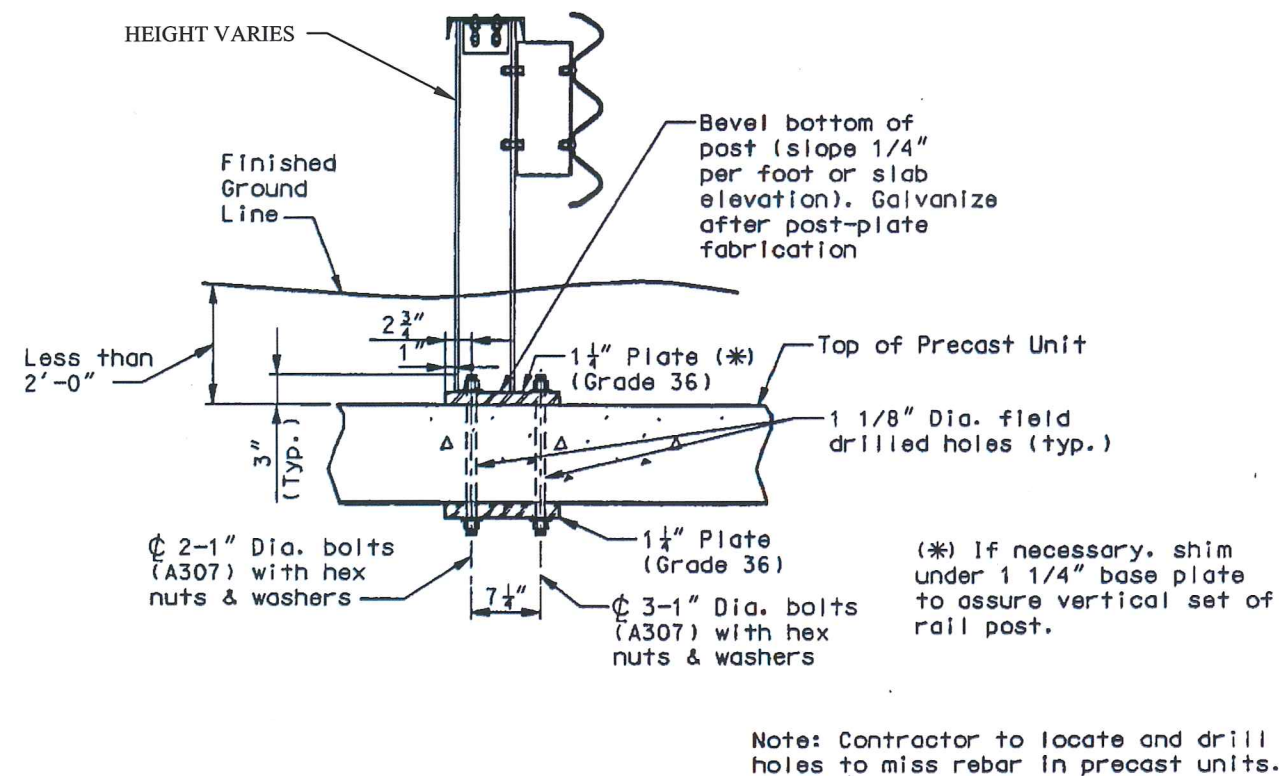
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02/03/2014

SCALE:
NTS

PLAN SHEET:
2B



TYPICAL SECTION



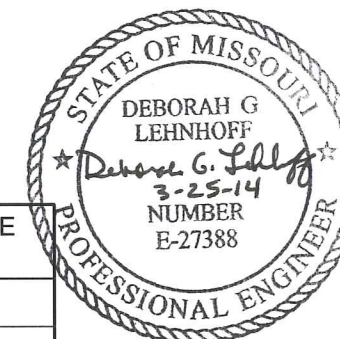
BRIDGE GUARDRAIL (ON BOX CULVERT)

SUPER ELEVATION (SLOPE) RELATIVE TO PROFILE GRADE		
GRAVOIS ROAD / MAIN STREET		
STA	12' LEFT	12' RIGHT
1+00	MATCH EXISTING	MATCH EXISTING
1+25	1	-2
1+50	-1	-1
1+75	-2	1
2+00	-3	2
2+25	-4	3
2+50	-4	4
2+75	-3	3
3+00	-2	2
3+25	-1	1
3+55	MATCH EXISTING	MATCH EXISTING

SUPER ELEVATION GRAVOIS / MAIN STREET

SUPER ELEVATION (SLOPE) RELATIVE TO PROFILE GRADE		
INDIAN SPRINGS		
STA	12' LEFT	12' RIGHT
0+25	-2	1
0+50	-1	-1
0+75	1	-2
1+00	2	-3
1+25	3	-4.5
1+50	MATCH EXISTING	MATCH EXISTING

SUPER ELEVATION INDIAN SPRINGS



GRAVOIS RD. IMPROVEMENT AT MAIN ST.
STP-5403 (637)

PUBLIC WORKS DEPARTMENT
JEFFERSON COUNTY, MO.
TYPICAL SECTIONS

DRAWN BY:
BED

CHKD. BY:
DGL

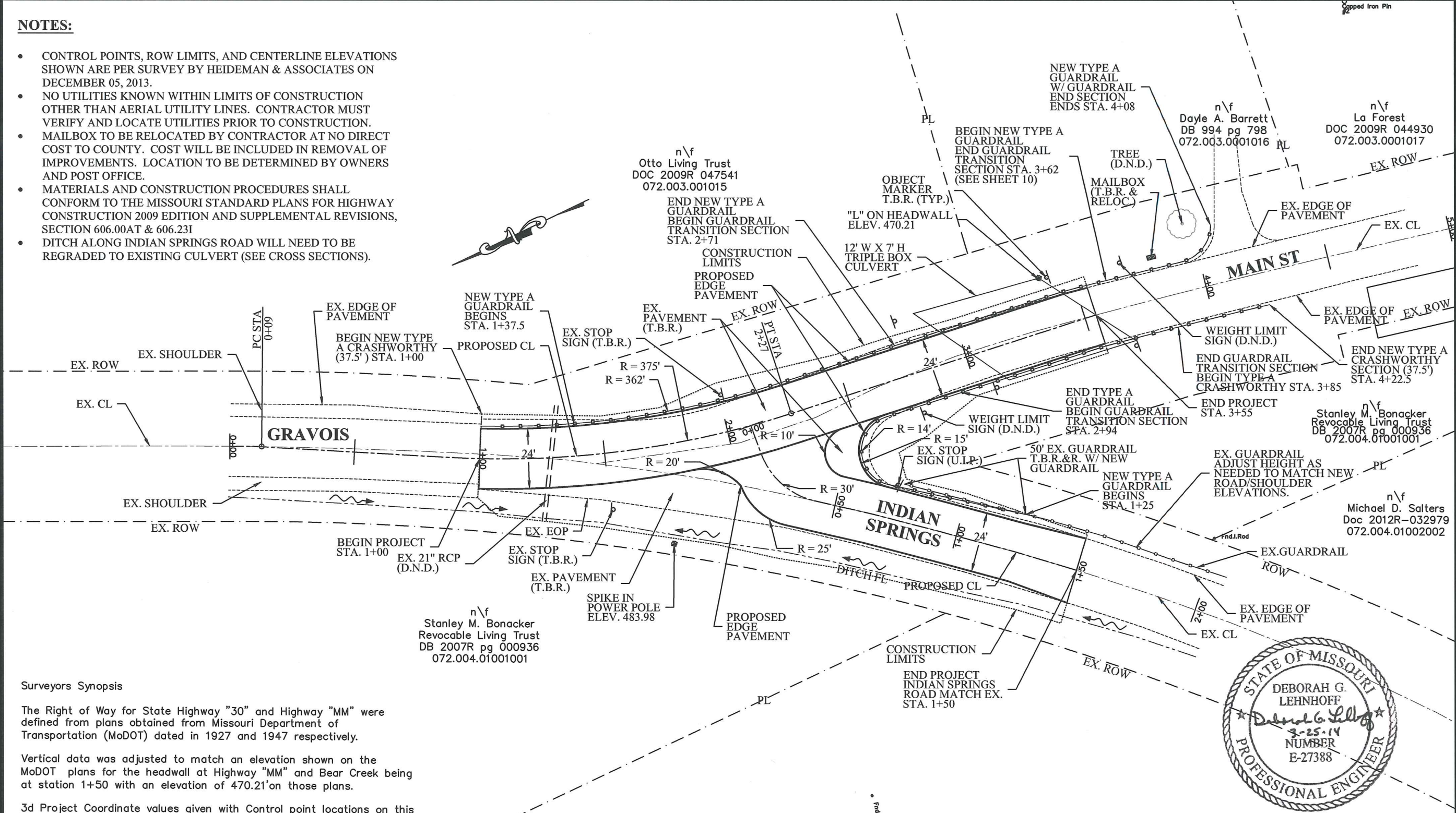
DATE:
02/03/2014

SCALE:
NTS

PLAN SHEET:
3

NOTES:

- CONTROL POINTS, ROW LIMITS, AND CENTERLINE ELEVATIONS SHOWN ARE PER SURVEY BY HEIDEMAN & ASSOCIATES ON DECEMBER 05, 2013.
- NO UTILITIES KNOWN WITHIN LIMITS OF CONSTRUCTION OTHER THAN AERIAL UTILITY LINES. CONTRACTOR MUST VERIFY AND LOCATE UTILITIES PRIOR TO CONSTRUCTION.
- MAILBOX TO BE RELOCATED BY CONTRACTOR AT NO DIRECT COST TO COUNTY. COST WILL BE INCLUDED IN REMOVAL OF IMPROVEMENTS. LOCATION TO BE DETERMINED BY OWNERS AND POST OFFICE.
- MATERIALS AND CONSTRUCTION PROCEDURES SHALL CONFORM TO THE MISSOURI STANDARD PLANS FOR HIGHWAY CONSTRUCTION 2009 EDITION AND SUPPLEMENTAL REVISIONS, SECTION 606.00AT & 606.23I
- DITCH ALONG INDIAN SPRINGS ROAD WILL NEED TO BE REGRADED TO EXISTING CULVERT (SEE CROSS SECTIONS).



Surveyors Synopsis

The Right of Way for State Highway "30" and Highway "MM" were defined from plans obtained from Missouri Department of Transportation (MoDOT) dated in 1927 and 1947 respectively.

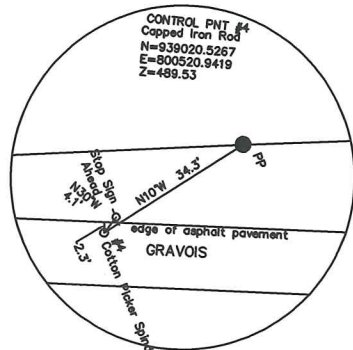
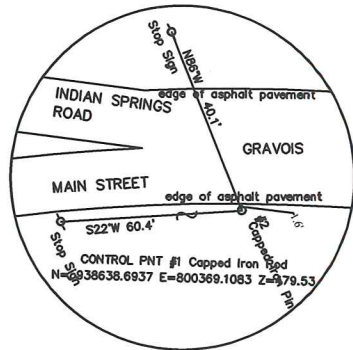
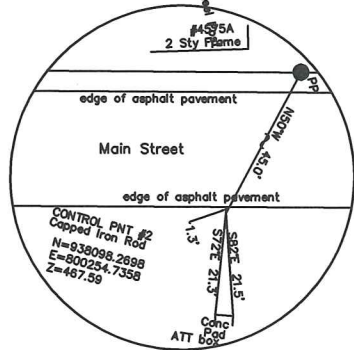
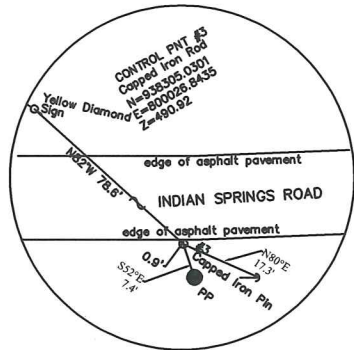
Vertical data was adjusted to match an elevation shown on the MoDOT plans for the headwall at Highway "MM" and Bear Creek being at station 1+50 with an elevation of 470.21' on those plans.

3d Project Coordinate values given with Control point locations on this plan sheet.

PK Nails were set at those stations noted with an elevation on this plan sheet.

Radial Inverses from Control Point #1 to control point:

- #2 S11°56'58"W 552.39'
- #3 S45°43'45"W 477.99'
- #4 N21°41'06"E 410.91'



GRAVOIS RD. IMPROVEMENT AT MAIN ST.
STP-5403 (637)

PUBLIC WORKS DEPARTMENT
JEFFERSON COUNTY, MO.

OVERALL PLAN

DRAWN BY:
BED

CHKD. BY:
DGL

DATE:
02/03/2014

SCALE:
1" = 40'

SHEET:
4

MATERIALS AND CONSTRUCTION PROCEDURES SHALL CONFORM TO THE MISSOURI STANDARD PLANS FOR HIGHWAY CONSTRUCTION 2009 EDITION AND SUPPLEMENTAL REVISIONS, SECTION 606.00AT & 606.231

n/f
Otto Living Trust
DOC 2009R 047541
072.003.001015

n/f
Dayle A. Barrett
DB 994 pg 798
072.003.0001016

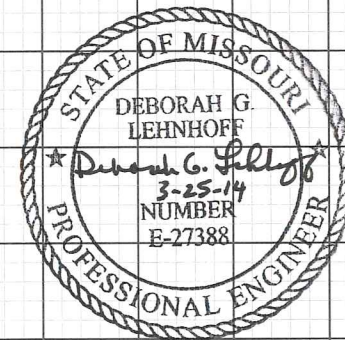
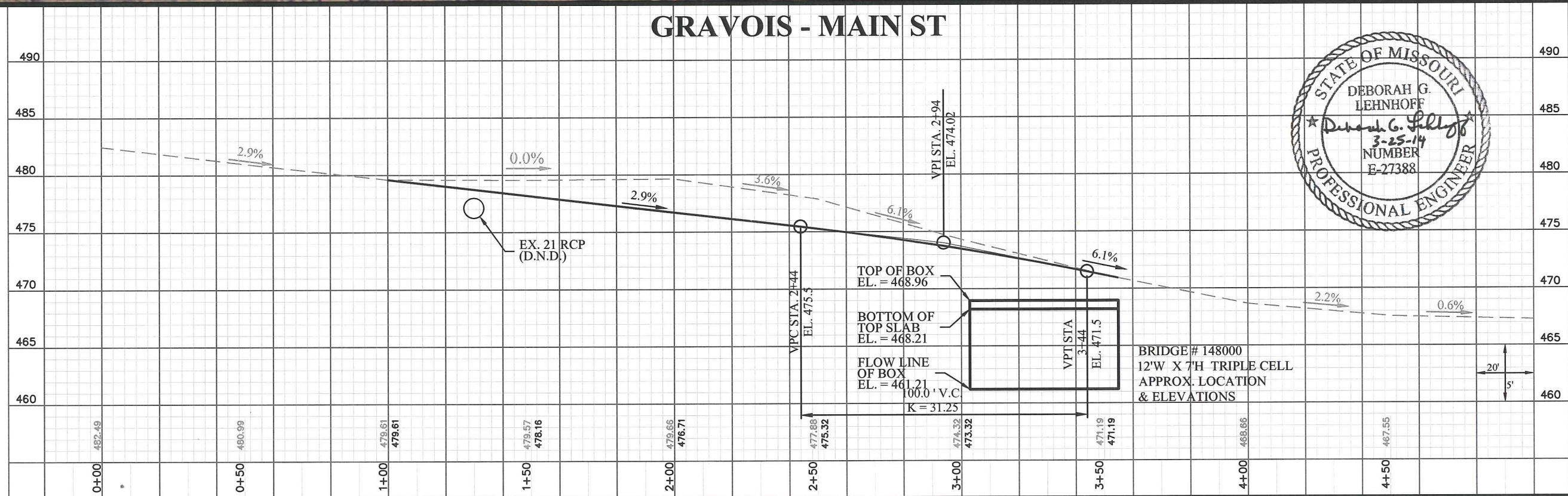
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La Forest
DOC 2009R 044030
072.003.0001017

n/f
Stanley M. Bonacker
Revocable Living Trust
DB 2007R pg 000936
072.004.01001001

n/f
Michael D. Salters
Doc 2012R-032979
072.004.01002002



GRAVOIS - MAIN ST



GRAVOIS RD. IMPROVEMENT AT MAIN ST.
STP-5403 (637)

PUBLIC WORKS DEPARTMENT
JEFFERSON COUNTY, MO.
GRAVOIS TO MAIN ST
PLAN/PROFILE

DRAWN BY:
BED

CHKD. BY:
DGL

DATE:
02/03/2014

SCALE:
1" = 40'

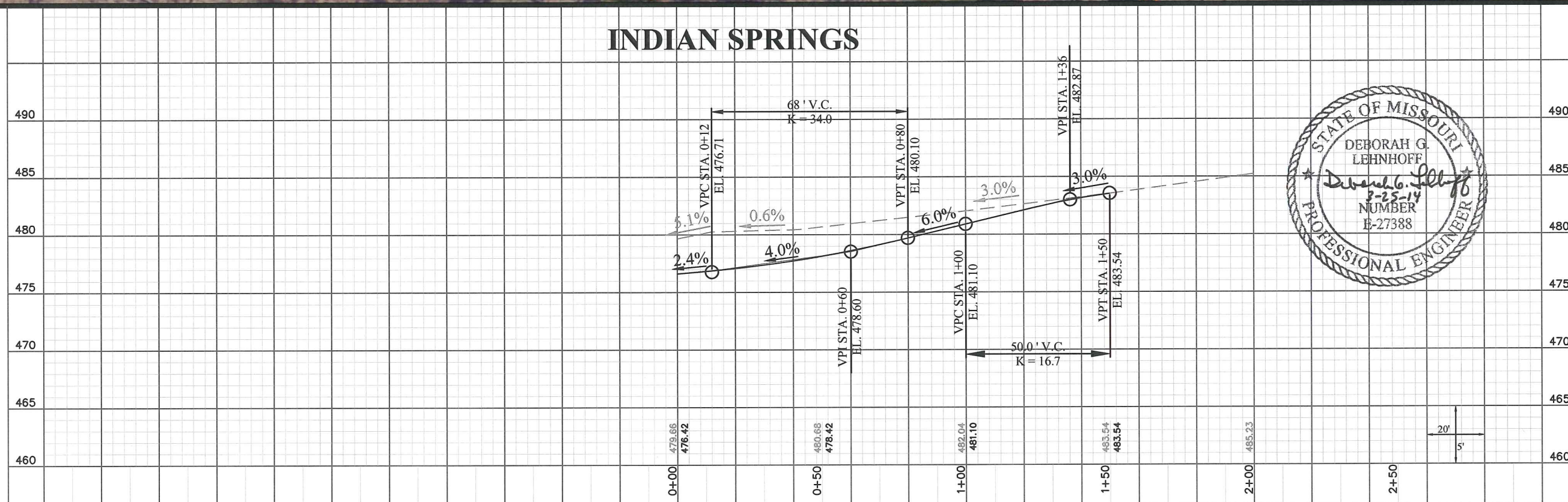
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MATERIALS AND CONSTRUCTION PROCEDURES SHALL CONFORM TO THE MISSOURI STANDARD PLANS FOR HIGHWAY CONSTRUCTION 2009 EDITION AND SUPPLEMENTAL REVISIONS. SECTION 606.00AT & 606.23I



**GRAVOIS RD. IMPROVEMENT AT MAIN ST.
STP-5403 (637)**

**PUBLIC WORKS DEPARTMENT
JEFFERSON COUNTY, MO.
GRAVOIS TO MAIN ST
PLAN/PROFILE**



DRAWN BY:

BED

CHKD. BY:

DGL

DATE: _____

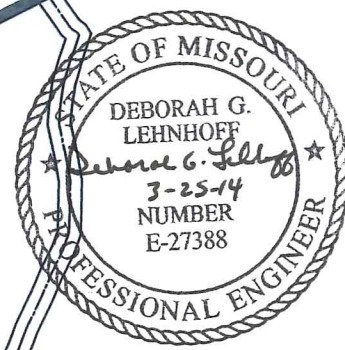
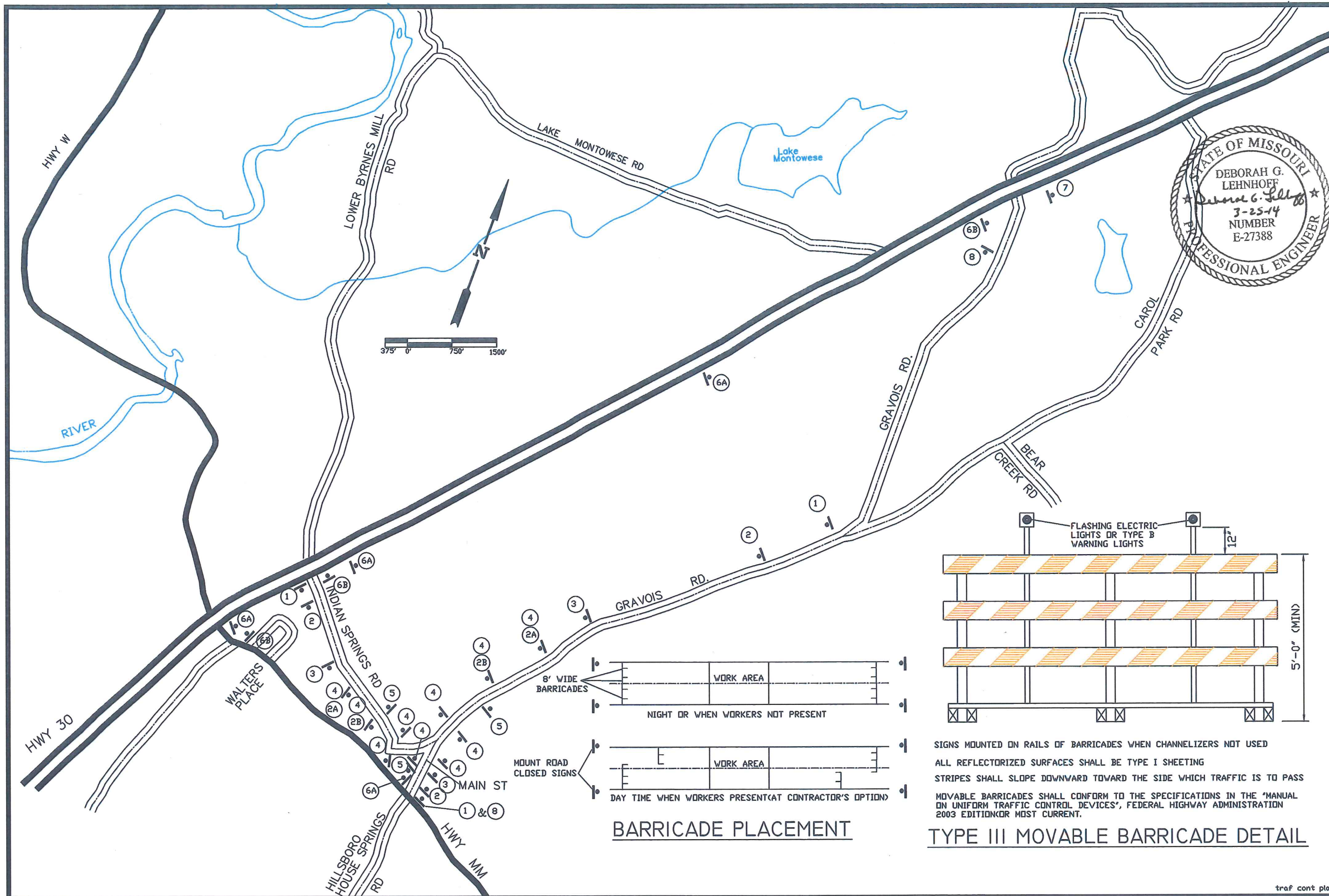
02/03/2014

SCALE:

$$1'' = 40'$$

SHEET:

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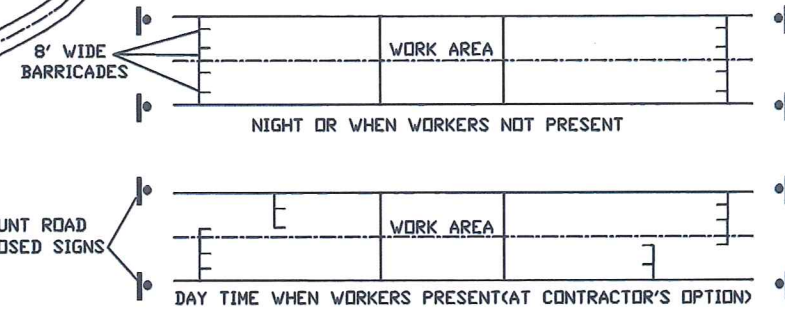


REVISIONS	DATE

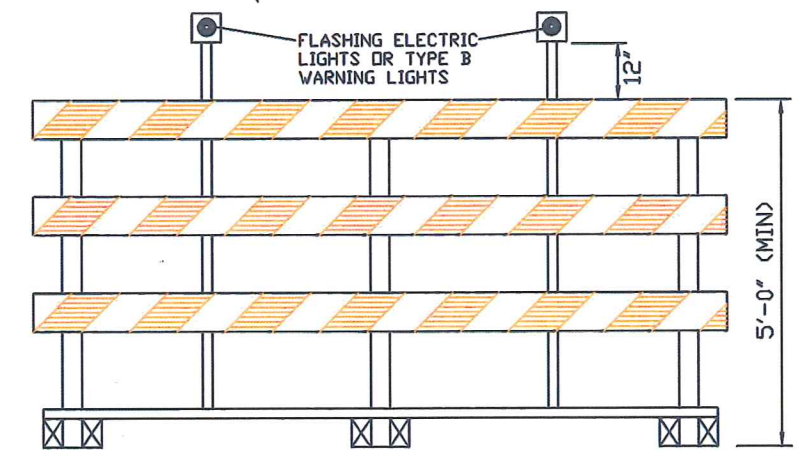
PUBLIC WORKS DEPARTMENT
JEFFERSON COUNTY, MO.
P.O. BOX 100
HILLSBORO, MO. 63050
(636)797-5340

TRAFFIC CONTROL PLAN
GRAVOIS ROAD & MAIN ST.
IMPROVEMENTS

DRAWN BY:	VPS
CHECKED BY:	DL
DATE:	10/20/13
JOB NO.:	10/20/13
SCALE:	1" = 1500'
SHEET	7
OF 2 SHEETS	



BARRICADE PLACEMENT



SIGNS MOUNTED ON RAILS OF BARRICADES WHEN CHANNELIZERS NOT USED
ALL REFLECTORIZED SURFACES SHALL BE TYPE I SHEETING
STRIPES SHALL SLOPE DOWNWARD TOWARD THE SIDE WHICH TRAFFIC IS TO PASS
MOVABLE BARRICADES SHALL CONFORM TO THE SPECIFICATIONS IN THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES', FEDERAL HIGHWAY ADMINISTRATION 2003 EDITION OR MOST CURRENT.

TYPE III MOVABLE BARRICADE DETAIL



WD20-1
①



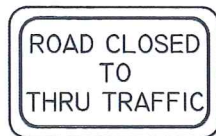
WD20-3
②



WD16-2
②A



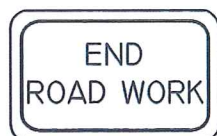
WD16-2
②B



R11-4
③



R11-2
④



G020-2
⑤



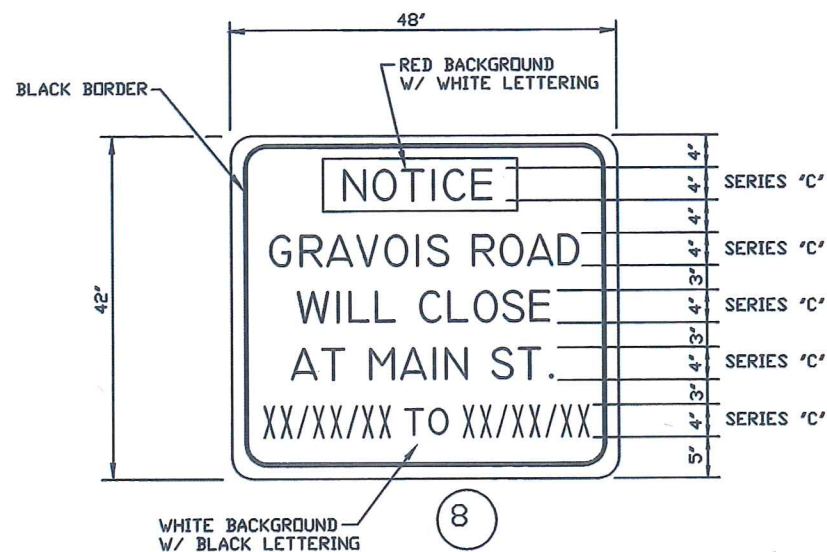
SPECIAL 1
⑥A



SPECIAL 2
⑥B



M04-8A
⑦



SPECIAL SIGN DETAIL

NOTES:

ROAD CLOSURE LIMITED TO 15 CONSECUTIVE WORKING DAYS

ALL TRAFFIC CONTROL DEVICES AND LAYOUT SHALL CONFORM TO THE LATEST EDITION OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

FOR STABILITY, A SANDBAG MAY BE USED FOR WEIGHTING THE DRUMS AND/OR BARRICADES. WATER AND OTHER FOREIGN DEBRIS SHALL NOT BE USED AS A WEIGHTING DEVICE DUE TO THE INCREASED HAZARD IF A DRUM OR BARRICADE IS STRUCK BY A VEHICLE.

PAYMENT FOR THE FURNISHING, PLACING AND MAINTAINING OF SIGNS AND ANY OTHER TRAFFIC CONTROL REQUIREMENTS WILL BE PAID FOR IN CONTRACT ITEM FOR CONSTRUCTION SIGNS UNLESS OTHERWISE SPECIFIED.

CONTRACTOR SHALL SUBMIT TO THE COUNTY, FOR REVIEW OR APPROVAL, A ROAD CLOSURE SCHEDULE TWO WEEKS PRIOR TO START OF CONSTRUCTION.

CONTRACTOR FURNISHED SIGNS SHALL BE MAINTAINED AND KEPT CLEAN FOR THE DURATION OF THE PROJECT AND SHALL BE IN ACCORDANCE WITH SEC 616. 'TEMPORARY TRAFFIC CONTROL'. PAYMENT SHALL BE CONSIDERED COMPLETELY COVERED BY THE BID ITEM CONSTRUCTION SIGNS.

IF WORK IS TO TAKE PLACE AT NIGHT, WORK ZONE LIGHTING WILL BE REQUIRED.

THE COST OF RELOCATING CONSTRUCTION SIGNS IS CONSIDERED INCIDENTAL TO THE PRICE BID FOR EACH ITEM AND NO DIRECT PAYMENT WILL BE MADE.

ANY EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED.

ALL SPACING AND DISTANCES ARE APPROXIMATE AND MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE NOTED.

USE ONE (1) TYPE III MOVABLE BARRICADE FOR EVERY 8 FEET OF PAVEMENT WIDTH TO BE CLOSED.

CHEVRONS ON ROAD WORK AHEAD SIGN AWRS SHALL BE IN ACCORDANCE WITH 616.23.

LEGEND

- ROAD CLOSED
- MOVEABLE BARRICADE
- SIGN
- INFORMATIONAL SIGN



REVISIONS	DATE

PUBLIC WORKS DEPARTMENT
JEFFERSON COUNTY, MO.
P.O. BOX 100
HILLSBORO, MO. 63050
(636)797-5340

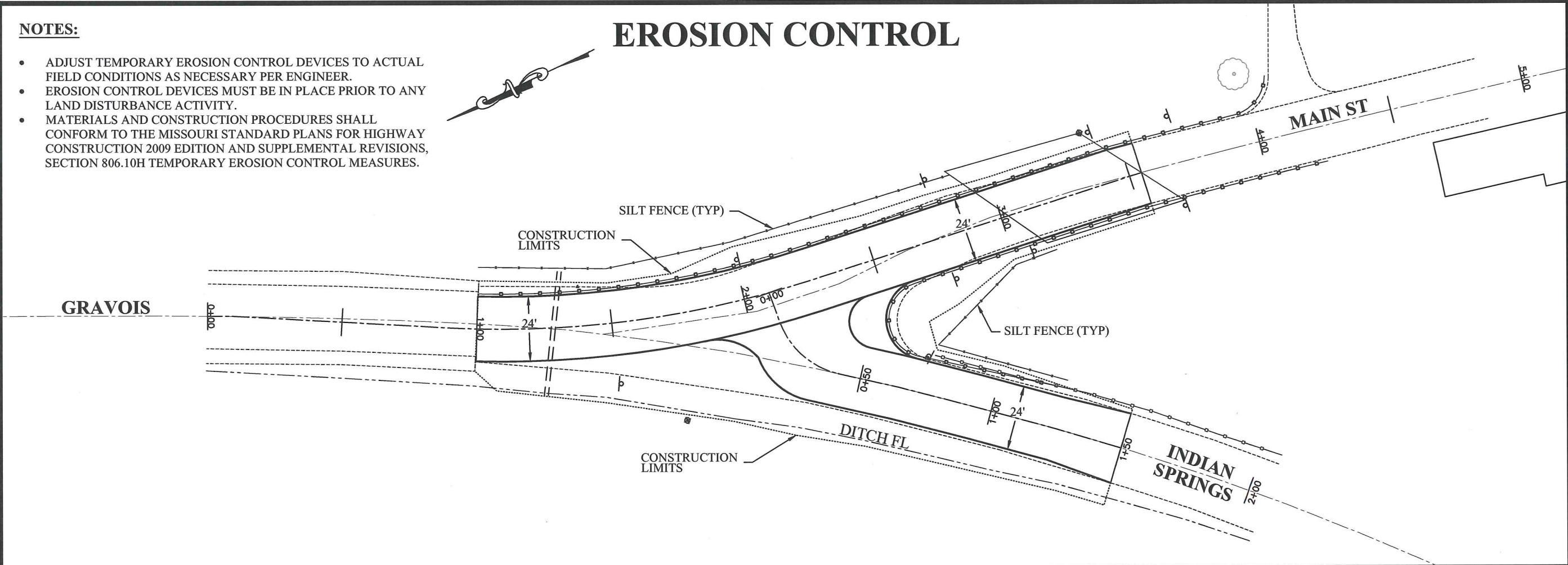
TRAFFIC CONTROL PLAN
GRAVOIS ROAD & MAIN ST.
IMPROVEMENTS

DRAWN BY:	VPS
CHECKED BY:	DL
DATE:	10/20/13
JOB NO.	10/20/13
SCALE:	1" = 1500'
SHEET	8
OF SHEETS	

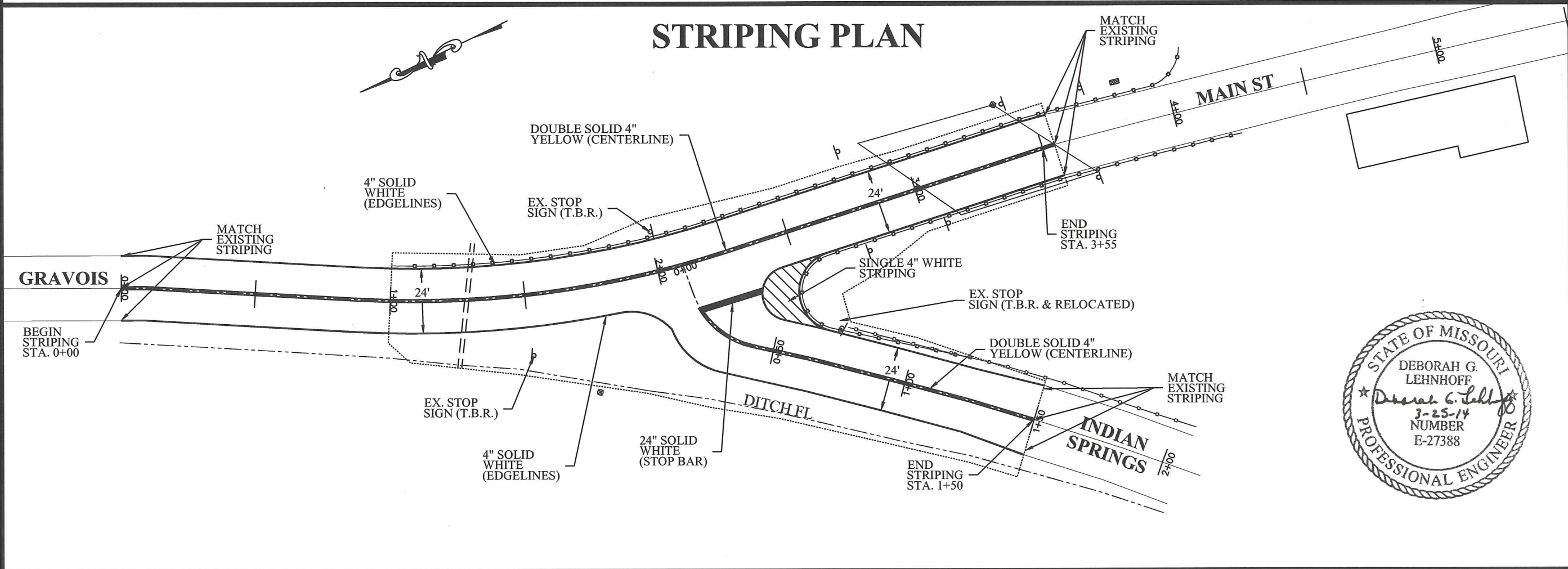
NOTES:

- ADJUST TEMPORARY EROSION CONTROL DEVICES TO ACTUAL FIELD CONDITIONS AS NECESSARY PER ENGINEER.
- EROSION CONTROL DEVICES MUST BE IN PLACE PRIOR TO ANY LAND DISTURBANCE ACTIVITY.
- MATERIALS AND CONSTRUCTION PROCEDURES SHALL CONFORM TO THE MISSOURI STANDARD PLANS FOR HIGHWAY CONSTRUCTION 2009 EDITION AND SUPPLEMENTAL REVISIONS, SECTION 806.10H TEMPORARY EROSION CONTROL MEASURES.

EROSION CONTROL



STRIPING PLAN



GRAVOIS RD. IMPROVEMENT AT MAIN ST.
STP-5403 (637)

PUBLIC WORKS DEPARTMENT
JEFFERSON COUNTY, MO.
EROSION CONTROL / STRIPING PLAN

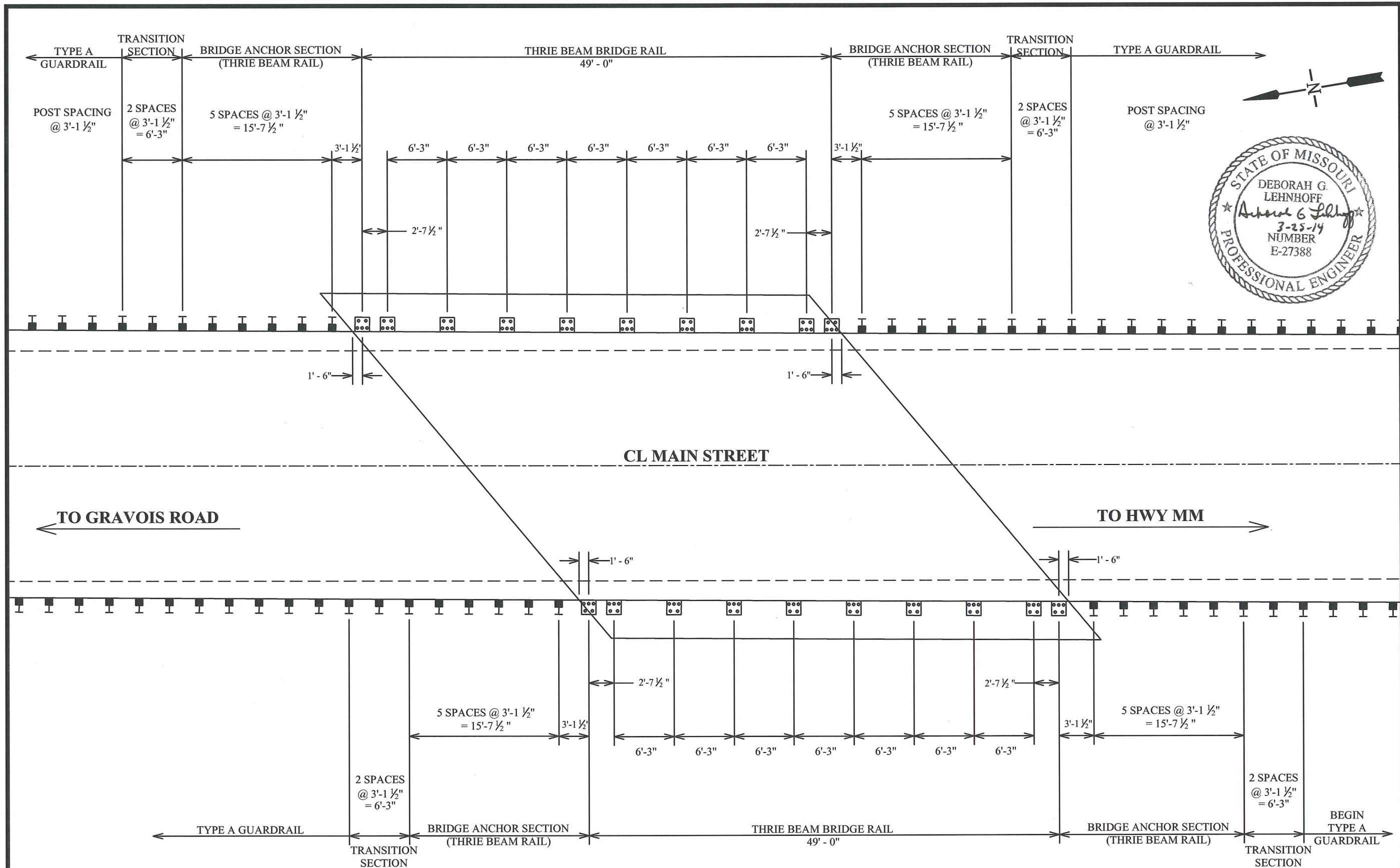
DRAWN BY:
BED

CHKD. BY:
DGL

DATE:
02/04/2014

SCALE:
1" = 40'

SHEET:



NOTES:

- MATERIALS AND CONSTRUCTION PROCEDURES SHALL CONFORM TO THE MISSOURI STANDARD PLANS FOR HIGHWAY CONSTRUCTION 2009 EDITION AND SUPPLEMENTAL REVISIONS, SECTION 606.00AT & 606.23I
- BRIDGE GUARDRAIL POST HEIGHTS VARY. CONTRACTOR TO VERIFY POST HEIGHTS PRIOR TO FABRICATION.
- CONTRACTOR WILL NEED TO REMOVE ALL MATERIAL AS NEEDED ON BOX CULVERT AS NEEDED TO PROPERLY ATTACH THE BRIDGE GUARDRAIL. TYPE 5 AGGREGATE TO REPLACE SUCH MATERIAL.

GRAVOIS RD. IMPROVEMENT AT MAIN ST.
STP-5403 (637)

PUBLIC WORKS DEPARTMENT
JEFFERSON COUNTY, MO.

BRIDGE GUARDRAIL DETAIL

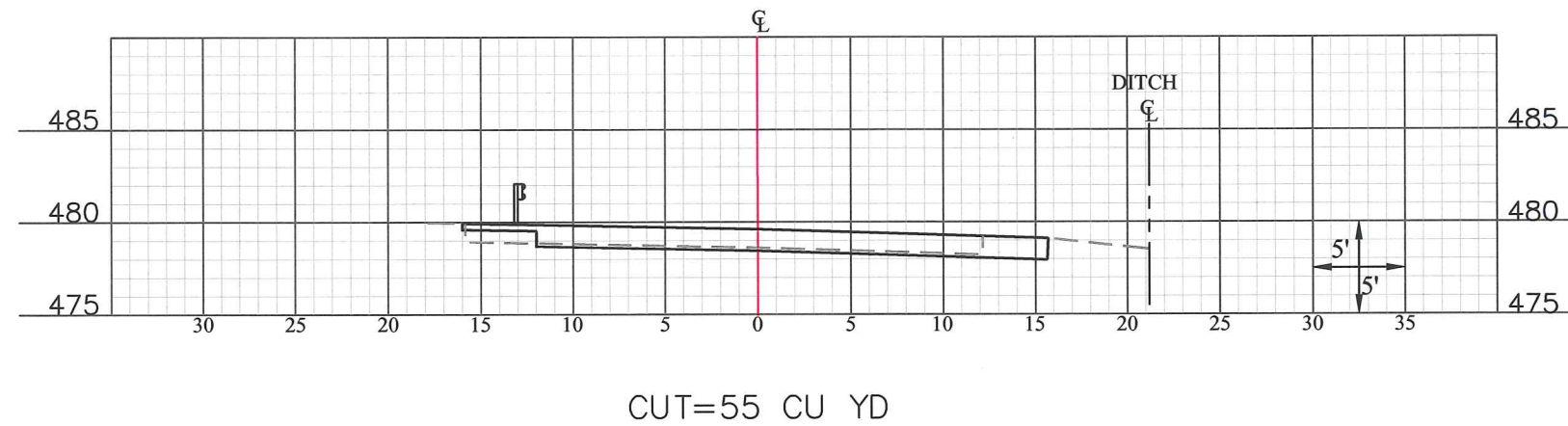
DRAWN BY:
BED

CHKD. BY:
DGL

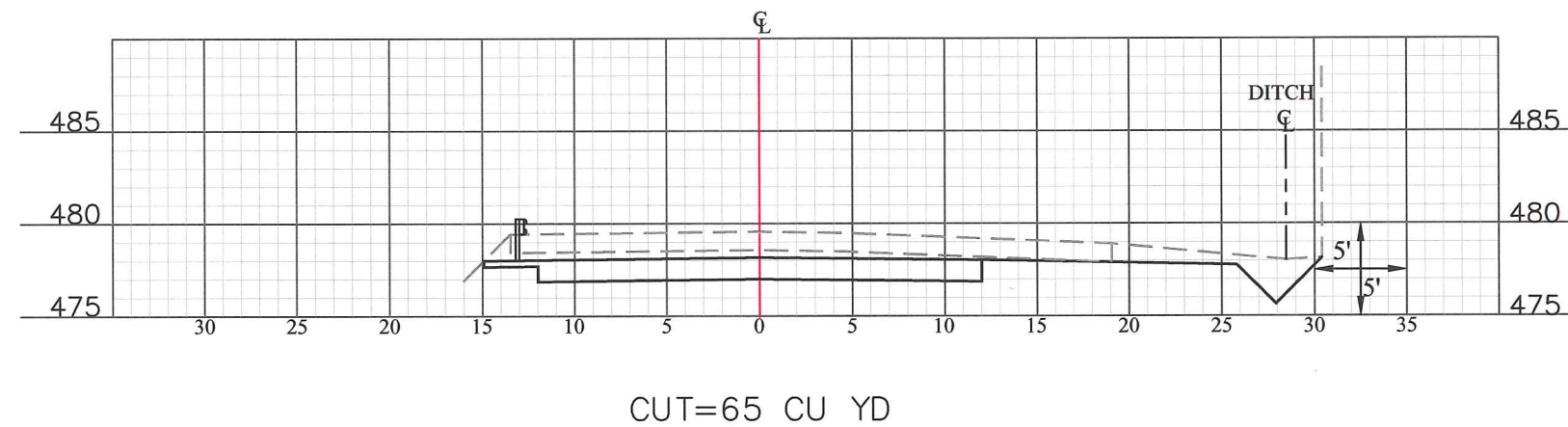
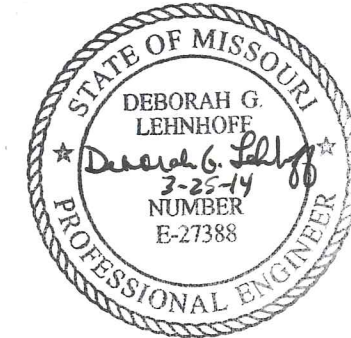
DATE:
02/03/2014

SCALE:
NTS

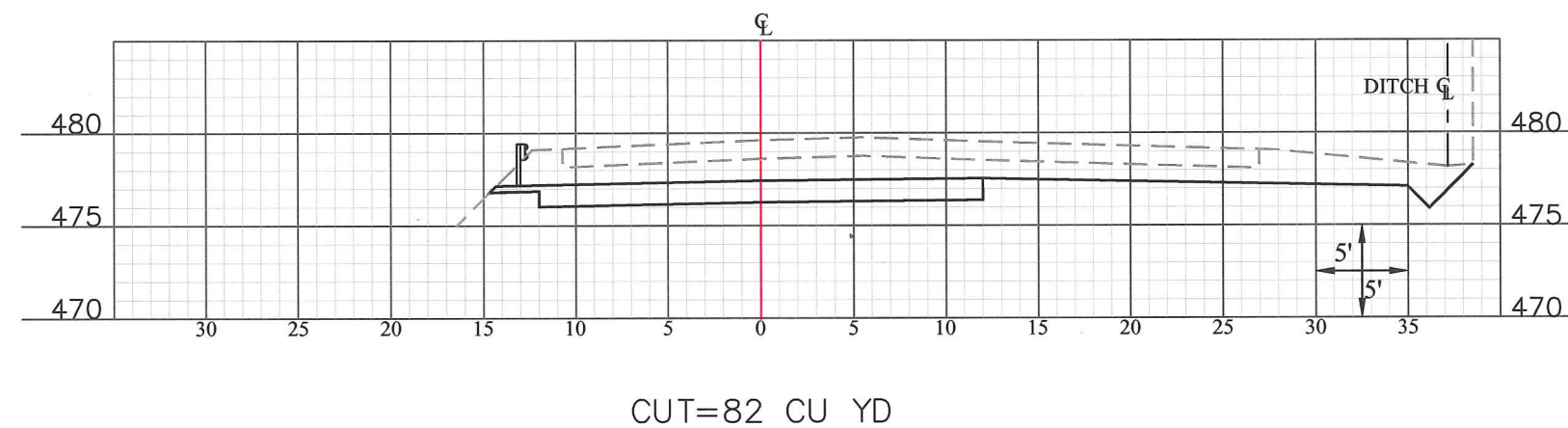
SHEET:
10



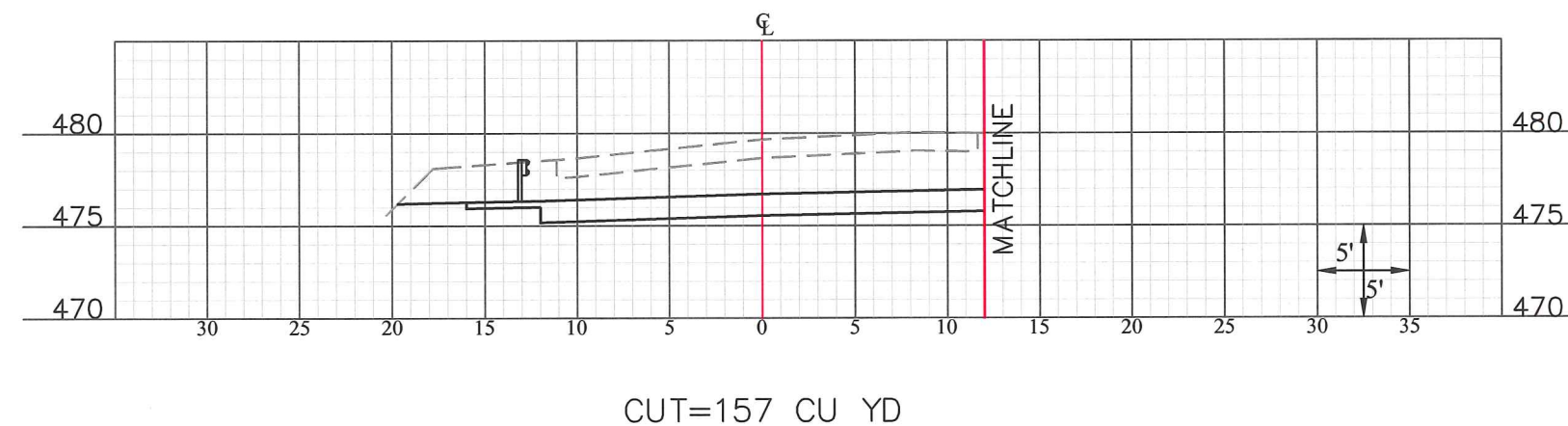
1+00
CUT=8 SF



1+50
CUT=51 SF



1+75
CUT=90 SF



2+00
CUT=87 SF

GRAVOIS RD. IMPROVEMENT AT MAIN ST.
STP-5403 (637)

PUBLIC WORKS DEPARTMENT
JEFFERSON COUNTY, MO.
GRAVOIS - MAIN STREET
CROSS SECTIONS

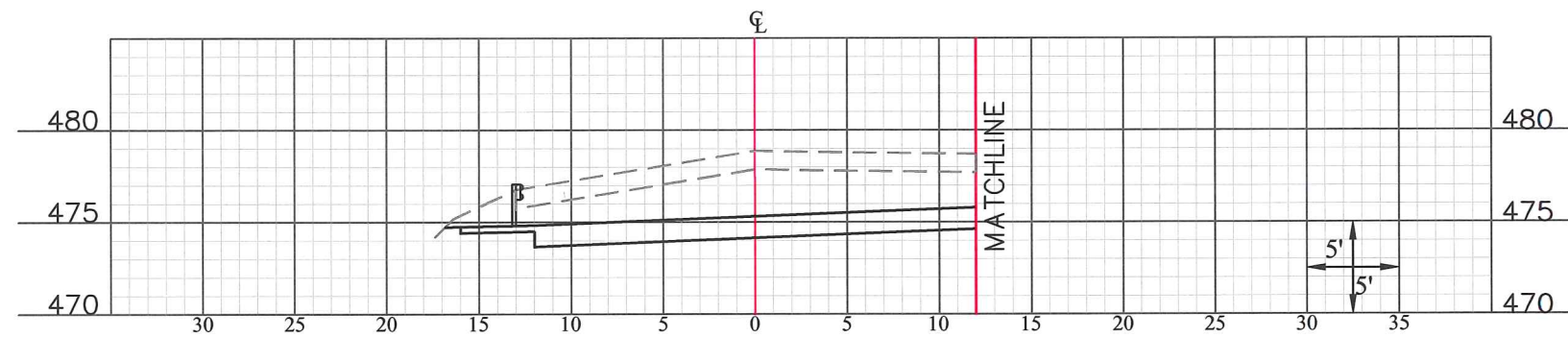
DRAWN BY:
BED

CHKD. BY:
DGL

DATE:
02/03/2014

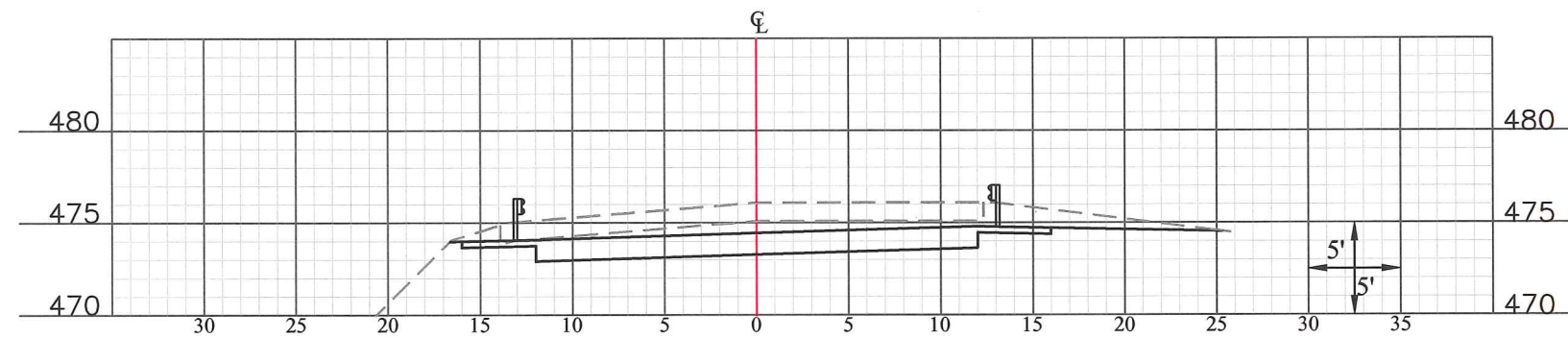
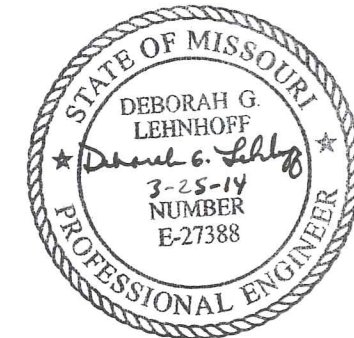
SCALE:
1" = 10'

SHEET:
11



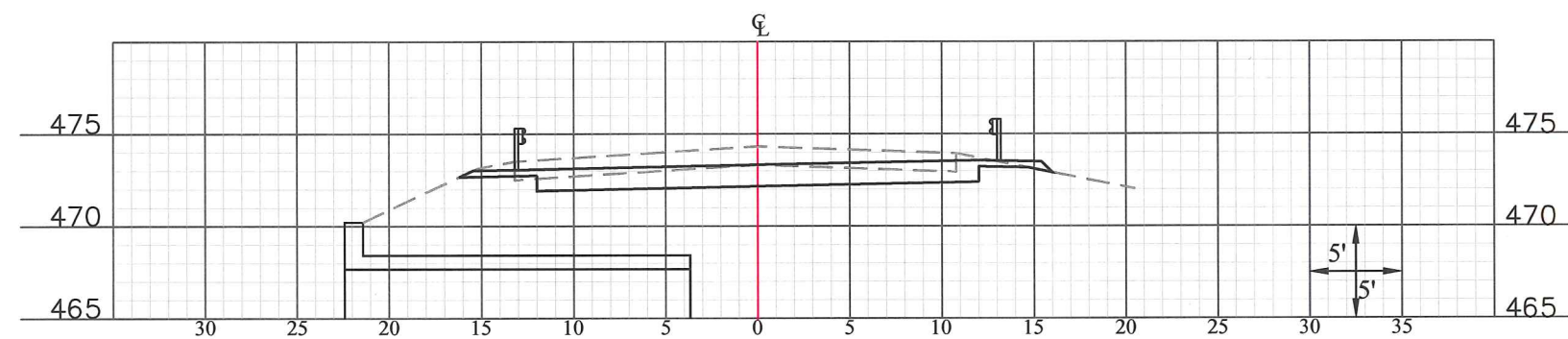
CUT=62 CU YD

2+50
CUT=83 SF



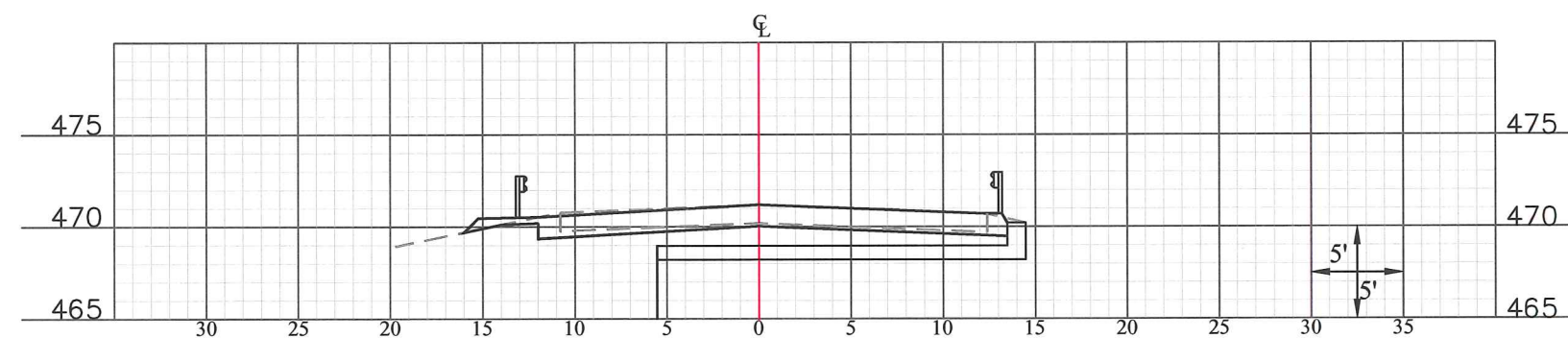
CUT=34 CU YD

2+75
CUT=51 SF



CUT=75 CU YD

3+00
CUT=22 SF



CUT=10 CU YD

3+50
CUT=58 SF

GRAVOIS RD. IMPROVEMENT AT MAIN ST.
STP-5403 (637)

PUBLIC WORKS DEPARTMENT
JEFFERSON COUNTY, MO.
GRAVOIS - MAIN STREET
CROSS SECTIONS

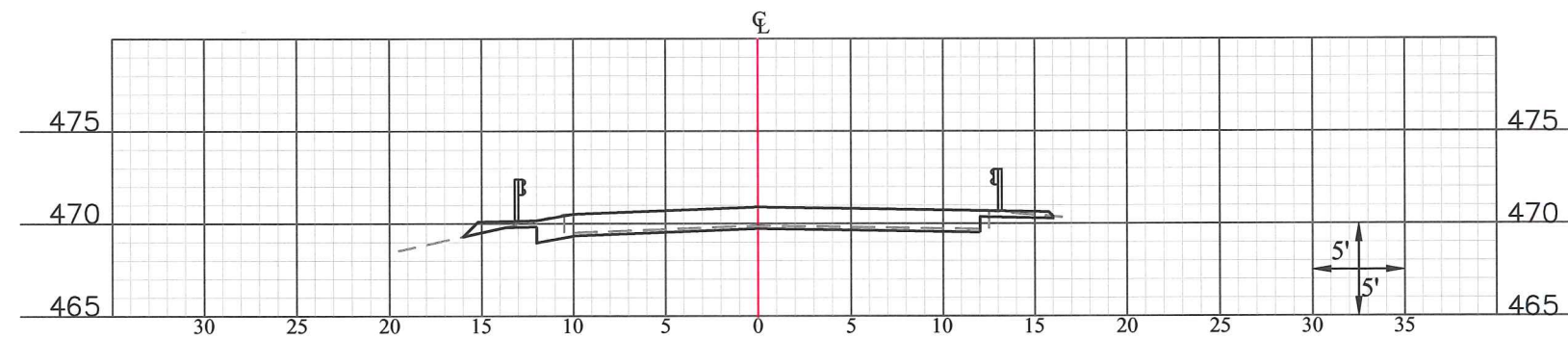
DRAWN BY:
BED

CHKD. BY:
DGL

DATE:
02/03/2014

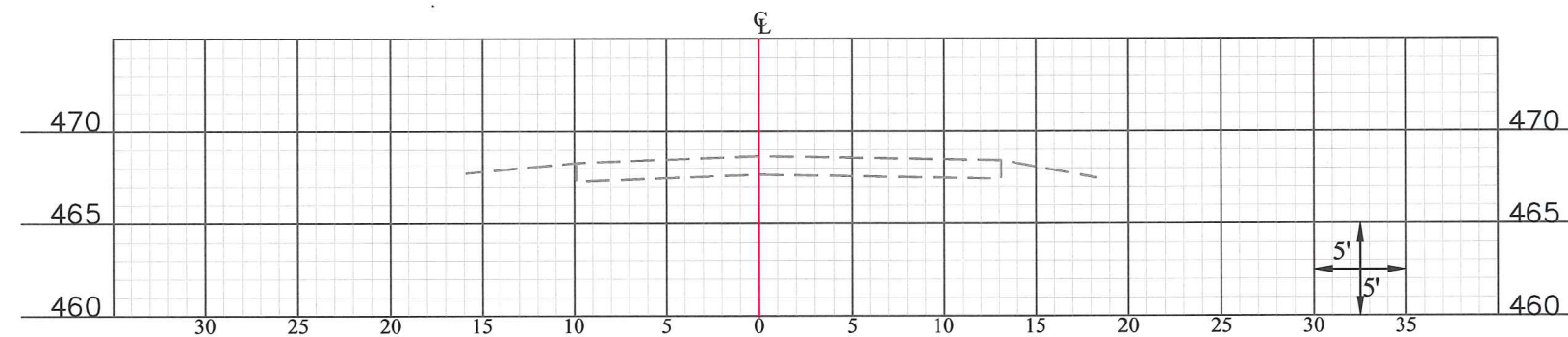
SCALE:
1" = 10'

SHEET:
12



3+55
CUT=54 SF

CUT=45 CU YD



4+00
CUT=0 SF

GRAVOIS RD. IMPROVEMENT AT MAIN ST.
STP-5403 (637)

PUBLIC WORKS DEPARTMENT
JEFFERSON COUNTY, MO.
GRAVOIS - MAIN STREET
CROSS SECTIONS

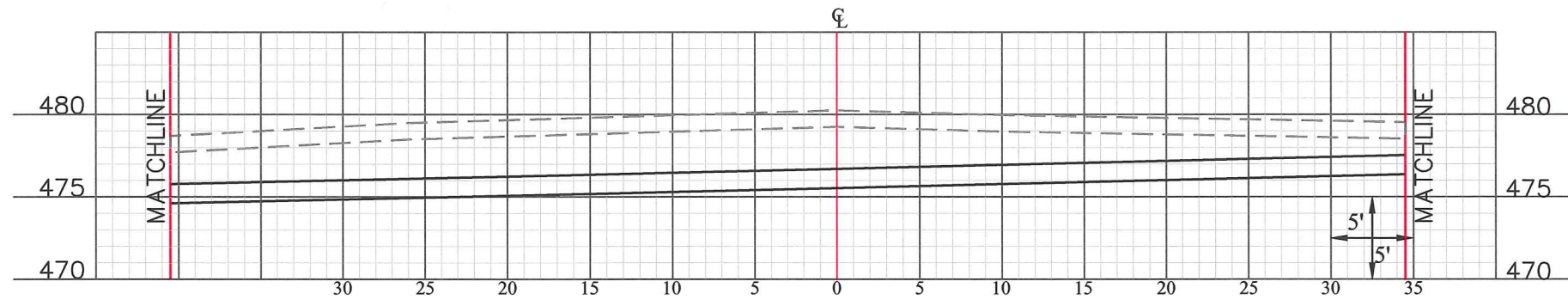
DRAWN BY:
BED

CHKD. BY:
DGL

DATE:
02/03/2014

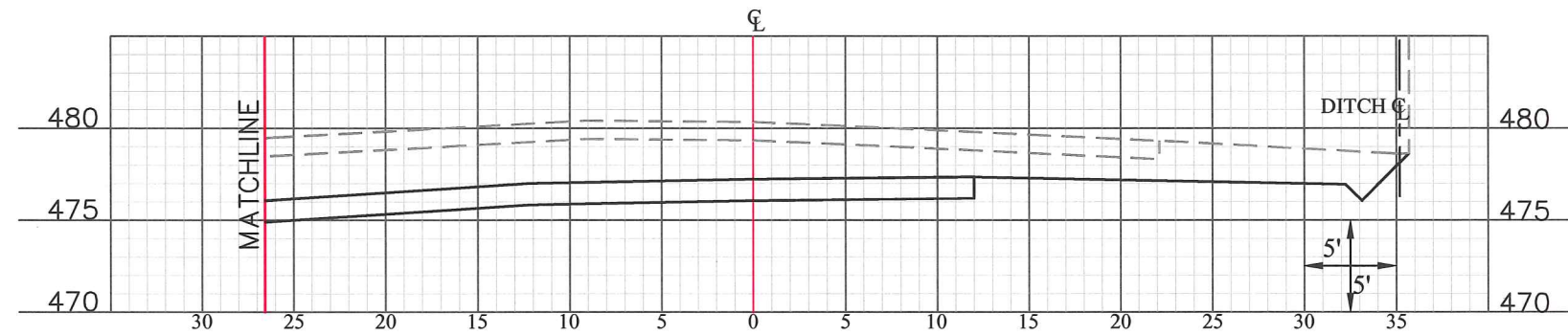
SCALE:
1" = 10'

SHEET:
13



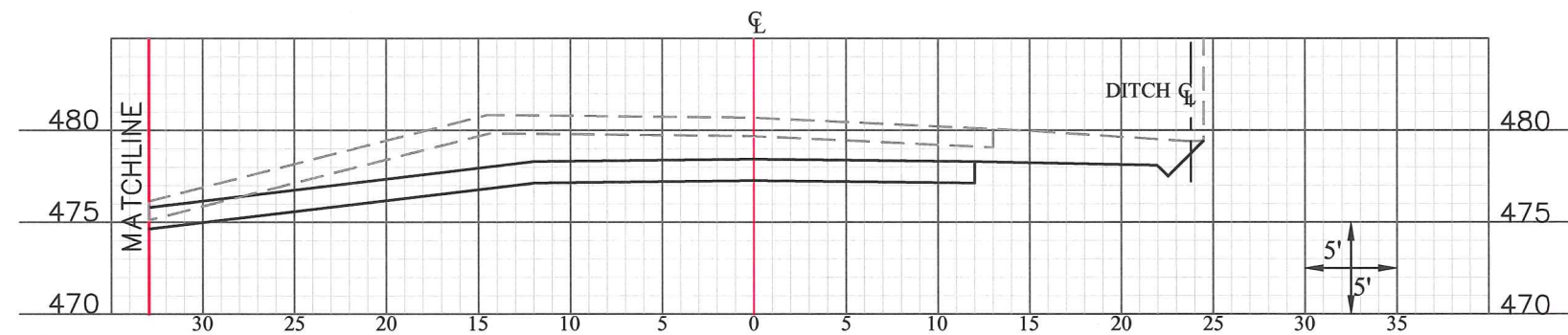
CUT=99 CU YD

0+12
CUT=243 SF



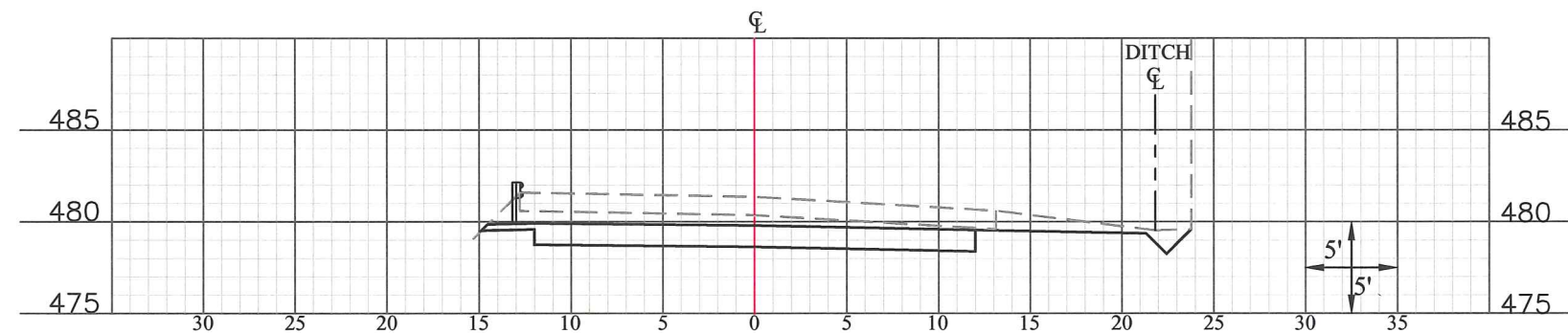
CUT=130 CU YD

0+25
CUT=166 SF



CUT=76 CU YD

0+50
CUT=114 SF



CUT=35 CU YD

0+75
CUT=49 SF

GRAVOIS RD. IMPROVEMENT AT MAIN ST.
STP-5403 (637)

PUBLIC WORKS DEPARTMENT
JEFFERSON COUNTY, MO.
INDIAN SPRINGS
CROSS SECTIONS

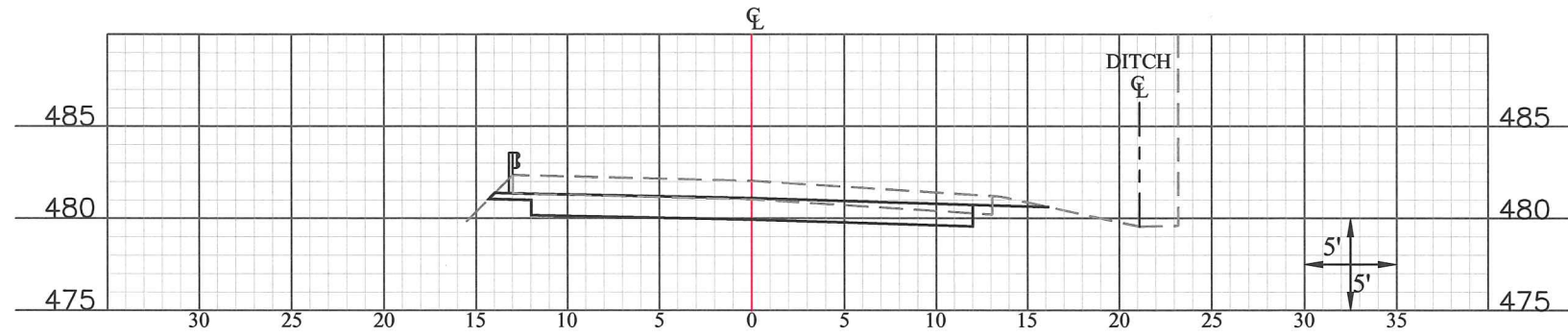
DRAWN BY:
BED

CHKD. BY:
DGL

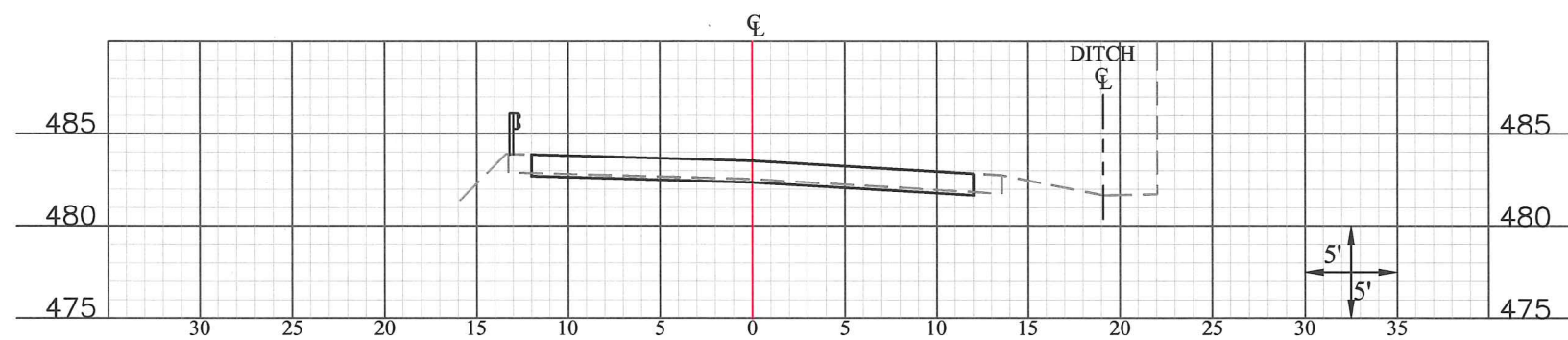
DATE:
02/03/2014

SCALE:
1" = 10'

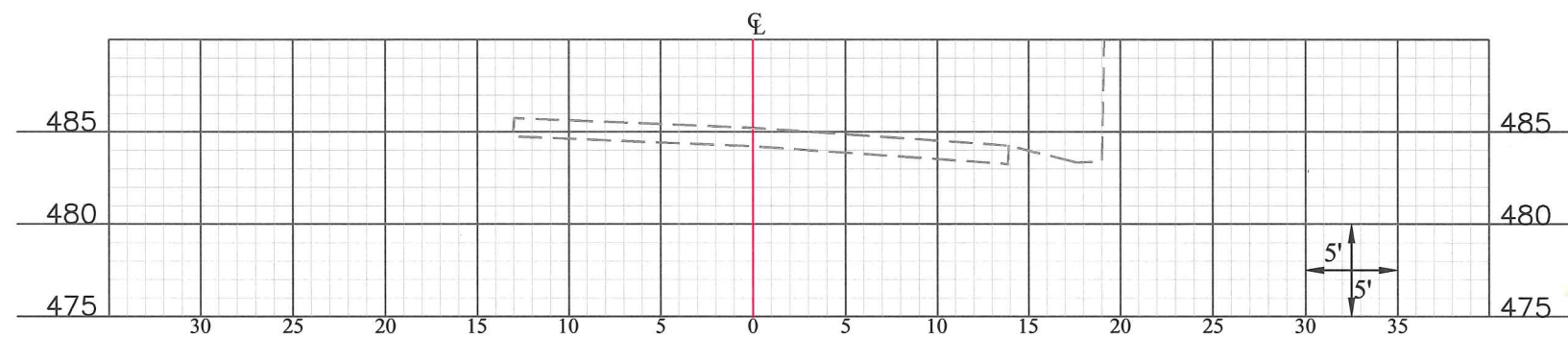
SHEET:
14



1+00
CUT=27 SF



1+50
CUT=4 SF



2+00
CUT=0 SF

GRAVOIS RD. IMPROVEMENT AT MAIN ST.
STP-5403 (637)

PUBLIC WORKS DEPARTMENT
JEFFERSON COUNTY, MO.
INDIAN SPRINGS
CROSS SECTIONS

DRAWN BY:
BED

CHKD. BY:
DGL

DATE:
02/03/2014

SCALE:
1" = 10'

SHEET:
15