

OWNER: JEFFERSON COUNTY
REPRESENTATIVE: JASON JONAS, P.E.
P.O. BOX 100
HILLSBORO, MISSOURI 63050
636.797.5340

SEWER: NORTHEAST PUBLIC SEWER DISTRICT
REPRESENTATIVE: BOB HEMBROCK, P.E.
1041 GRAVOIS ROAD
FENTON, MISSOURI 63026
636.343.5090

WATER: PUBLIC WATER SUPPLY DISTRICT #3
CHERYL MOELLERING
1469 OLD STATE ROUTE 21
ARNOLD, MISSOURI 63010
636.287.2188

ELECTRIC: AMEREN UE
REPRESENTATIVE: JIM HOVIS
6450 HIGHWAY MM
HOUSE SPRINGS, MISSOURI 63051
636.671.6155

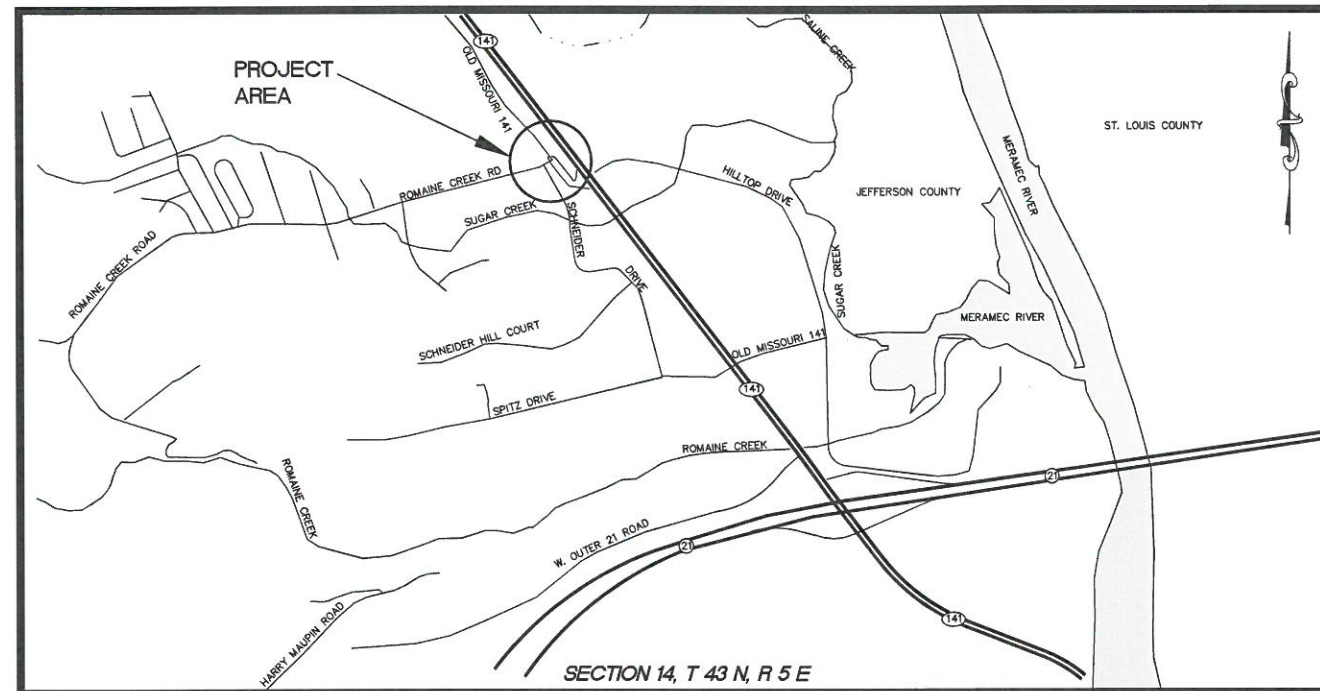
TELEPHONE: AT&T
REPRESENTATIVE: GLENN HOGANMILLER
122 N. 2ND STREET
FESTUS, MISSOURI 63028
636.931.7525

CABLE TV: CHARTER COMMUNICATIONS
REPRESENTATIVE: DARYL STEFFEN
915 CHARTER COMMONS DRIVE
TOWN AND COUNTRY, MISSOURI 63017
636.387.6663

GAS: LACLEDE GAS
REPRESENTATIVE: BRIAN LANGEBACHER
3950 FOREST PARK AVENUE
ST. LOUIS, MISSOURI 63108
314.768.7767

LEVEL 3
REPRESENTATIVE: BEN BAKER
INTERIM DSPE
BENBAKER@LEVEL3.COM
RELDO@LEVEL3.COM

FINAL CONSTRUCTION PLANS
PROJECT NO. PW16068RDW



LOCATION MAP
NOT TO SCALE

1.0	COVER SHEET
2.0	SUMMARY OF QUANTITIES
2.1-2.3	TYPICAL SECTIONS & DETAILS
2.4	REFERENCE TIES
3.0	OVERALL PLAN
4.0-4.1	PLAN & PROFILE
5.0	STRIPING & SIGNAGE PLAN
6.0	EROSION CONTROL PLAN
7.0-7.2	TRAFFIC CONTROL PLAN
8.0-8.4	CROSS SECTIONS

ROMAINE CREEK ROAD
FUNCTIONAL CLASSIFICATION: = COLLECTOR
CURRENT ADT = 7,586 VPD
% TRUCKS = 8%
SPEED LIMIT = 35 MPH
DESIGN SPEED = 40 MPH

SCHNEIDER DRIVE
FUNCTIONAL CLASSIFICATION: = COLLECTOR
CURRENT ADT = 617 VPD
% TRUCKS = 8%
SPEED LIMIT = 25 MPH
DESIGN SPEED = 30 MPH

OLD 141
FUNCTIONAL CLASSIFICATION: = COLLECTOR
CURRENT ADT = 543 VPD
% TRUCKS = 1%
SPEED LIMIT = 30 MPH
DESIGN SPEED = 35 MPH

DIRECTOR OF PUBLIC WORKS DATE 3/21/16

N/F	NOW OR FORMERLY
W	WIDE
DB.	DEED BOOK
PB.	PLAT BOOK
PG.	PAGE
CONC.	CONCRETE
SAN.	SANITARY
MH	MANHOLE
R	RADIUS
L	LENGTH
D	DELTA
TBR	TO BE REMOVED
TBR&R	TO BE REMOVED & REPLACED
UIP	TO BE USED IN PLACE
D.S.	ROOF DOWNSPOUT
w/	WITH
EX./EXIST.	EXISTING
E.O.P.	EDGE OF PAVEMENT
ROW/R/W	RIGHT OF WAY

 UTILITY POLE
 FIRE HYDRANT
 GAS VALVE
 SANITARY SEWER
 STORM SEWER
 GAS LINE
 WATER LINE
 -580- EXISTING CONTOURS
 -600- PROPOSED CONTOURS
 -FO- EXISTING FIBER OPTIC LINE

- FOUND MONUMENTATION
- CLEAN OUT
- EM ELECTRIC METER
- ← GUY WIRE
- UP UTILITY POLE
- TB TELEPHONE BOX/PEDESTAL
- SIGN
- MB MAILBOX
- BENCHMARK
- OE OVERHEAD ELECTRIC
- FO FIBER OPTIC LINE
- UG FIBER OPTIC LINE
- BUSH
- ZE DECIDUOUS TREE

1. THE UTILITIES SHOWN ON THESE PLANS WERE LOCATED VISUALLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES BEFORE EXCAVATION BEGINS.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REQUEST UTILITY LOCATES FROM MISSOURI ONE CALL (DIGITRE) AND ALL UTILITIES THAT MAY NOT BE PART OF THE MISSOURI ONE-CALL PROGRAM TO ARRANGE FOR UTILITY LOCATES. THE CONTACT INFORMATION FOR THE UTILITIES RELATIVE TO THIS PROJECT ARE PROVIDED ON THIS SHEET.
3. THE PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MISSOURI DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR HIGHWAY CONSTRUCTION (LATEST EDITION) AND THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST VERSION) WHICH ARE BOTH AVAILABLE ON THE MODOT WEB SITE.

THESE PLANS WERE DEVELOPED FOR 22" x 34" SHEETS. SCALES INDICATED ARE FOR FULL-SIZE PLOTS. PLANS PLOTTED ON 11" x 17" SHEETS ARE ONE-HALF (50%) OF THE INDICATED SCALE.



CALL BEFORE
YOU DIG!
1-800-DIG-RITE

COVER SHEET

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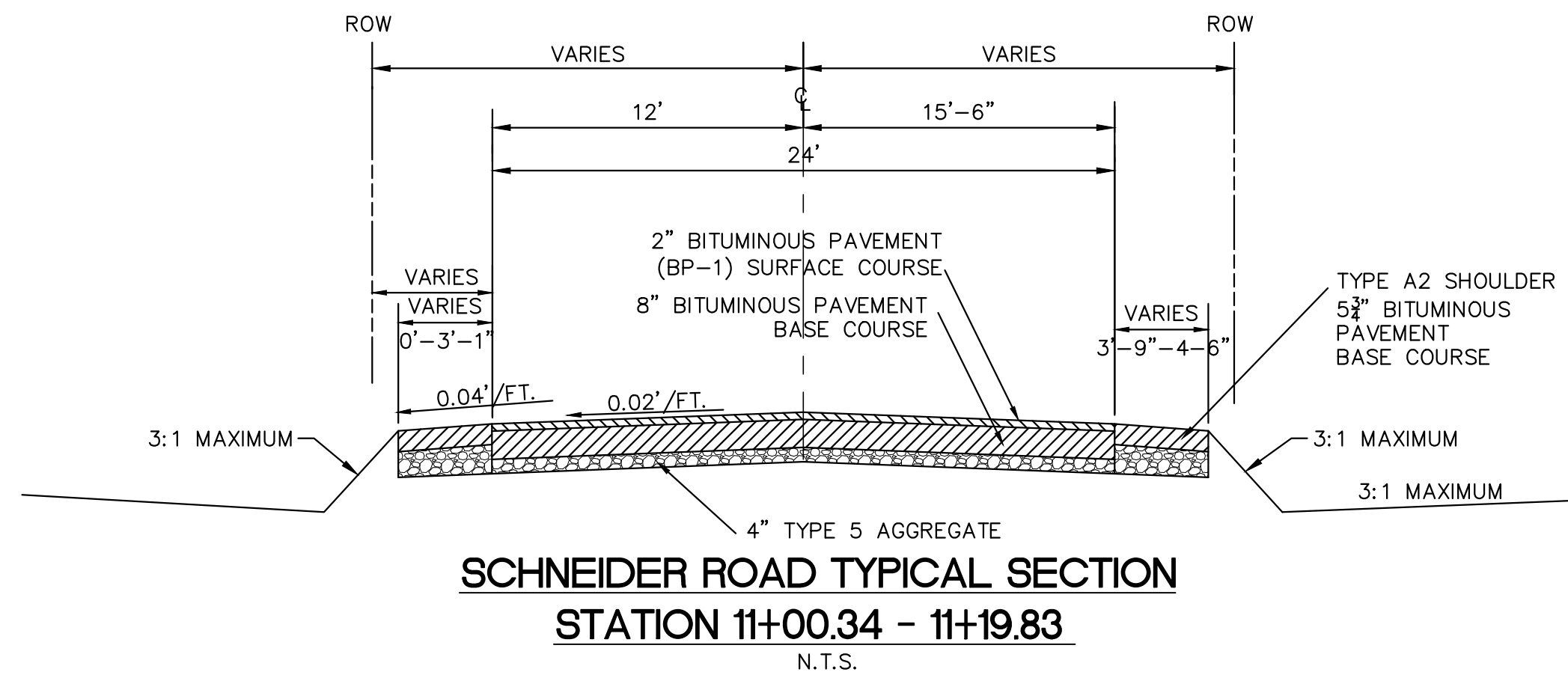
PERMANENT SIGNS						
SHEET	STATION	OFFSET	MUTCD	SIZE	903-50.10 PERMANENT SIGNING (SF)	DESCRIPTION
5.0	11+84	17' LT	R1-1	30x30	6.25	STOP SIGN
5.0	11+54	16' RT	R1-1	30x30	6.25	STOP SIGN
5.0	103+18	222' LT	R1-2	36x36x36	3.9	YIELD SIGN
5.0	102+34	29' LT	R1-2	36x36x36	3.9	YIELD SIGN
5.0	12+13	15' RT	R1-2	36x36x36	3.9	YIELD SIGN
5.0	12+13	15' RT	SIGN BLADE	24x6 (2EA)	12.5	ROMAINE CREEK ROAD
5.0	12+13	15' RT	SIGN BLADE	24x6 (2EA)	12.5	SCHNEIDER ROAD
5.0	12+13	15' RT	SIGN BLADE	24x6 (2EA)	12.5	OLD HIGHWAY 141
			TOTAL		61.7	

MAINLINE ASPHALT ROADWAY PAVEMENT AND RELATED ITEMS													
SHEET	STATION	STATION	ROUTE	LENGTH (L.F.)	PAVEMENT WIDTH (FT.)	TYPE 5 AGGREGATE BASE (4" THICK) (S.Y.)	TYPE 5 AGGREGATE BASE (8" THICK) (S.Y.)	BIT. PMVT. MIX. PG64-22 (BP-1) (TON)	BIT. PMVT. MIX. PG64-22 (BASE) (TON)	TACK COAT (GAL) 0.05 GAL/SY	TYPE A2 SHOULDER (S.Y.)	CONCRETE MEDIAN (S.Y.)	REMARKS
C3.0	100+54.60	104+74.60	ROMAINE CK. RD.	440	VARIES	1440	597	158	634	72	511	86	
C3.0	11+70.33	12+85	OLD 141	115	VARIES	626		69	275	31			
C3.0	10+37.36	11+70.33	SCHNEIDER DR.	133	VARIES	401		44	176	20		18	
TOTALS				688		2467	597	271	1085	123	511	104.5	

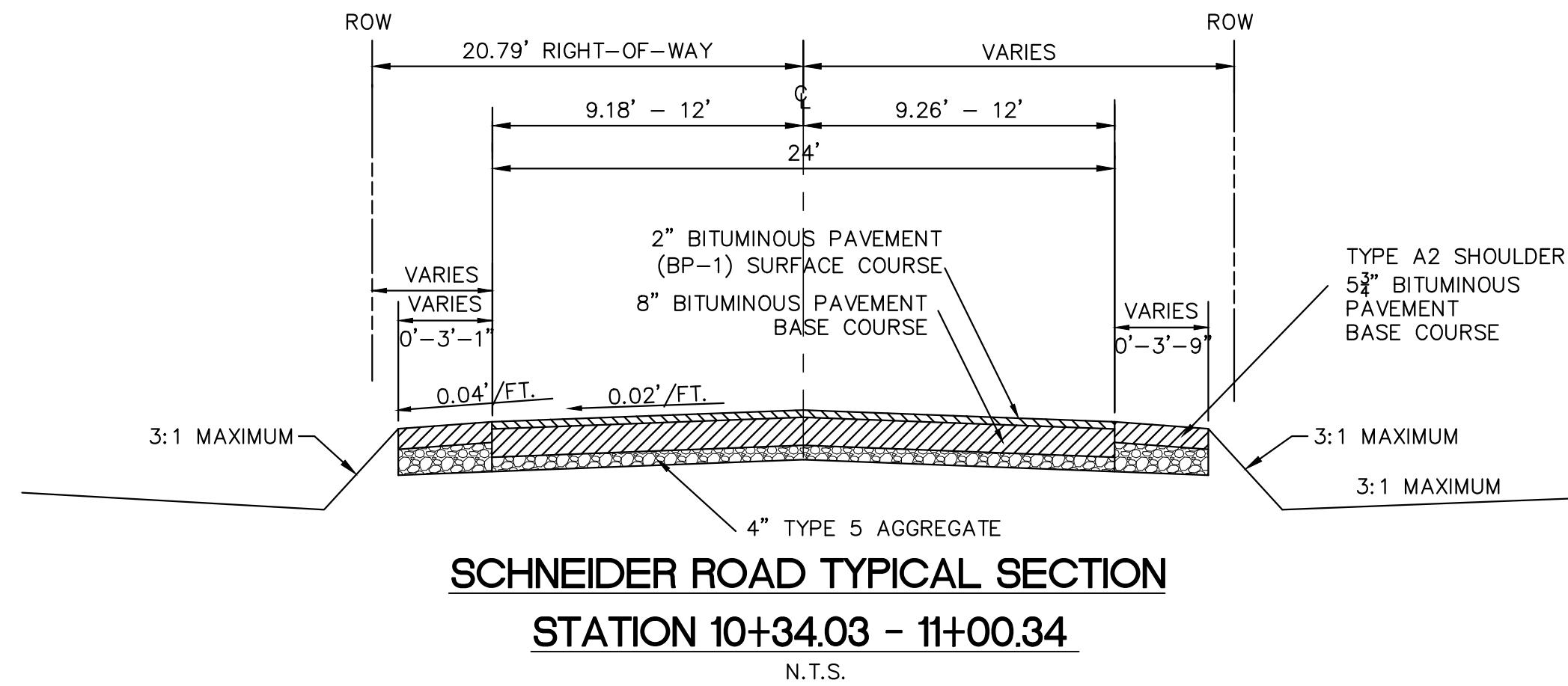
SAW CUT					
SHEET	ITEM NO.	STATION	ROUTE	LOCATION	LENGTH (LF)
C3.0	613-10.14	12+85.00	OLD 141 WEST		40
C3.0	613-10.14	102+64.26	ROMAINE CREEK RD.		24
C3.0	613-10.14	104+74.60	NEW ROMAINE CREEK RD.		58
C3.0	613-10.14	10+37.36	SCHNEIDER DRIVE		18
				TOTAL	140

SEEDING - 0.40 AC.

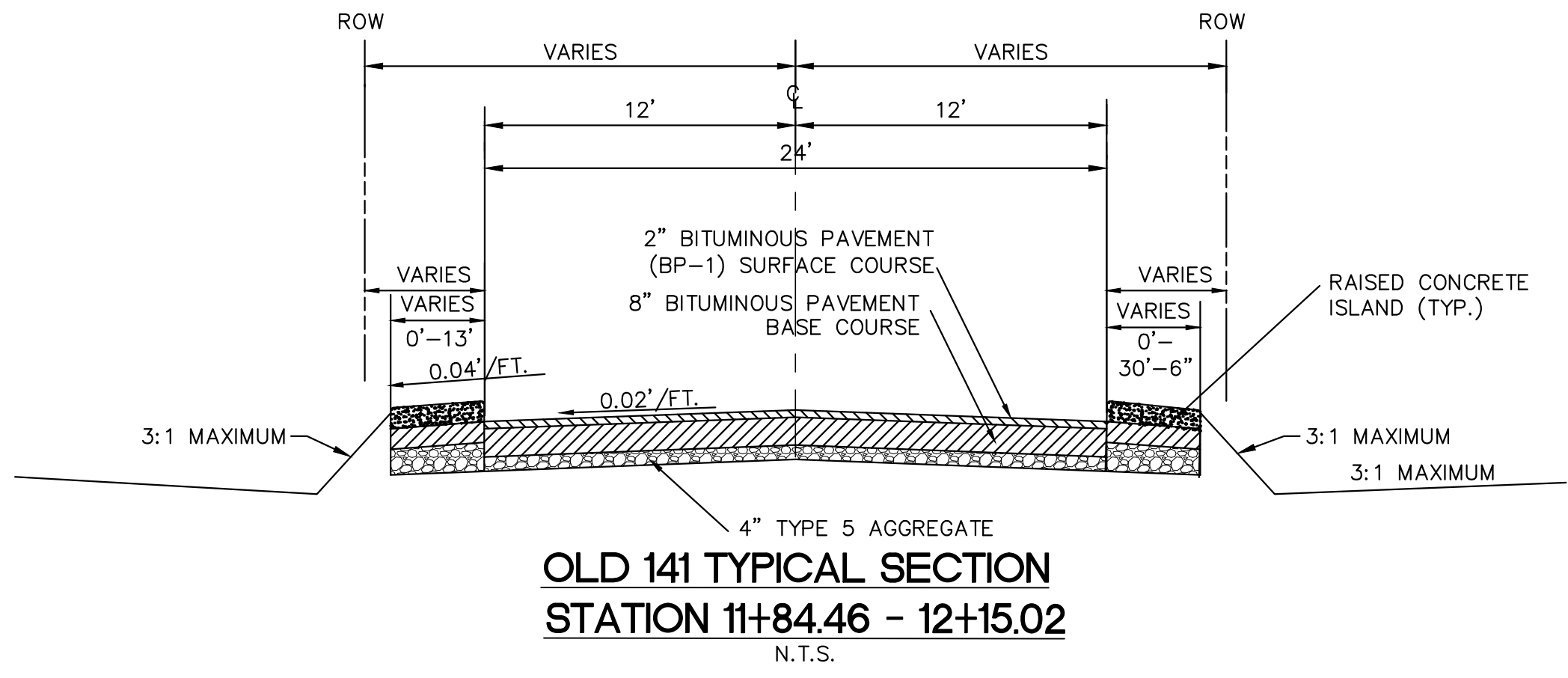
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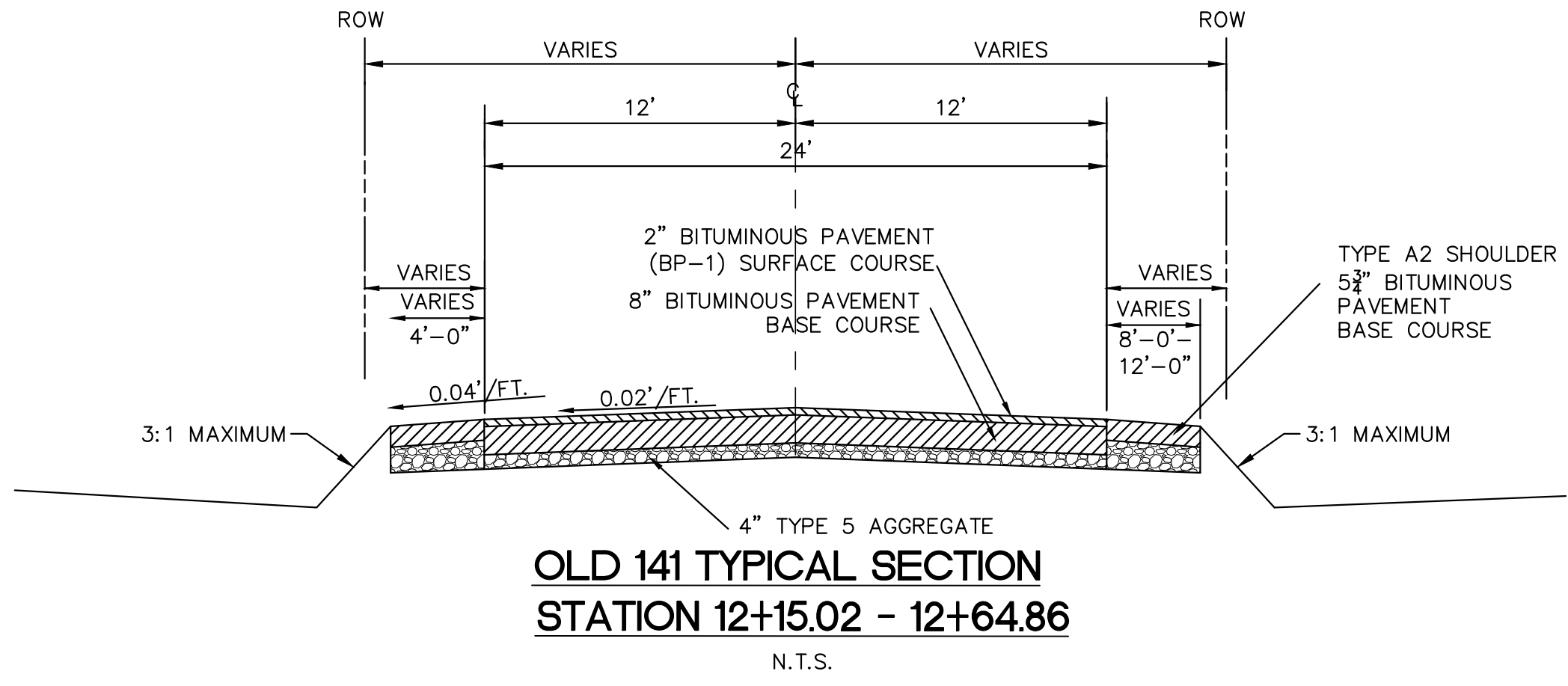
SCHNEIDER ROAD TYPICAL SECTION
STATION 11+00.34 - 11+19.83
N.T.S.



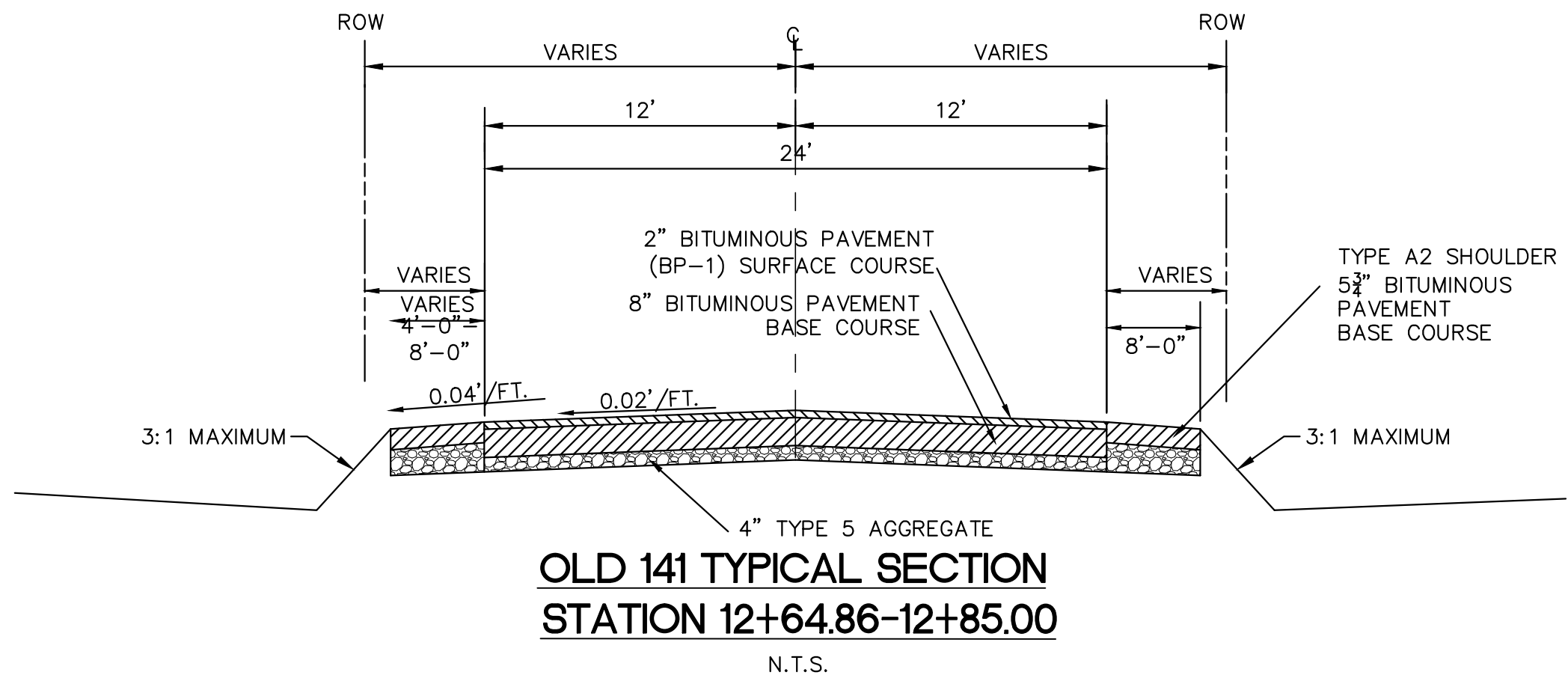
SCHNEIDER ROAD TYPICAL SECTION
STATION 10+34.03 - 11+00.34
N.T.S.



OLD 141 TYPICAL SECTION
STATION 11+84.46 - 12+15.02
N.T.S.



OLD 141 TYPICAL SECTION
STATION 12+15.02 - 12+64.86
N.T.S.



OLD 141 TYPICAL SECTION
STATION 12+64.86-12+85.00
N.T.S.

TYPICAL SECTIONS

Z:\ENGINEERING\PROJECTS\14558 HWY 166\NEW FLETCHER\OUTDOING TO VON ARX\2-16-16\14558-CD-0611015-ESP-1.DWG 3/17/2016 3:41 PM

Revisions

Date

JEFFERSON COUNTY
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DEVELOPER

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CERTIFICATE OF AUTHORITY 0875

ROMAINE CREEK ROAD/ OLD 141
INTERSECTION IMPROVEMENT
CONSTRUCTION PLANS
PROJECT NO. PW16068RDW

ISSUE DATE
12/23/2015

SCALE
AS NOTED

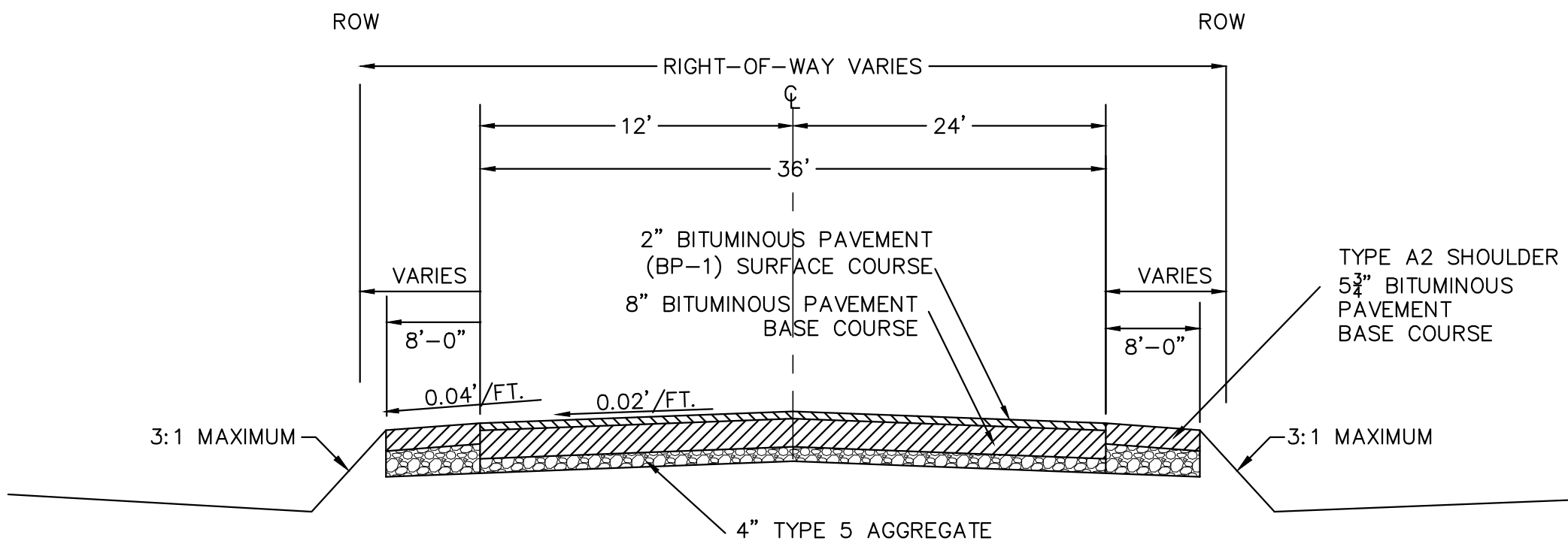
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14557

Sheet Number
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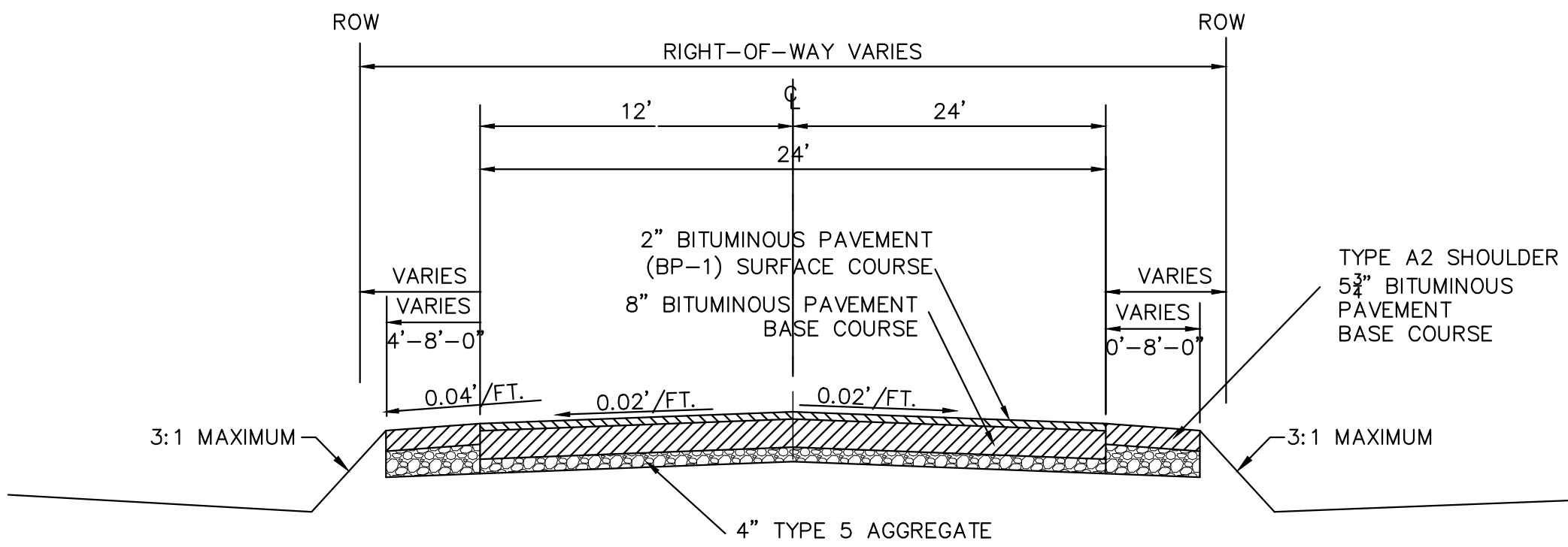
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ROMAINE CREEK ROAD
SUPERELEVATION DATA

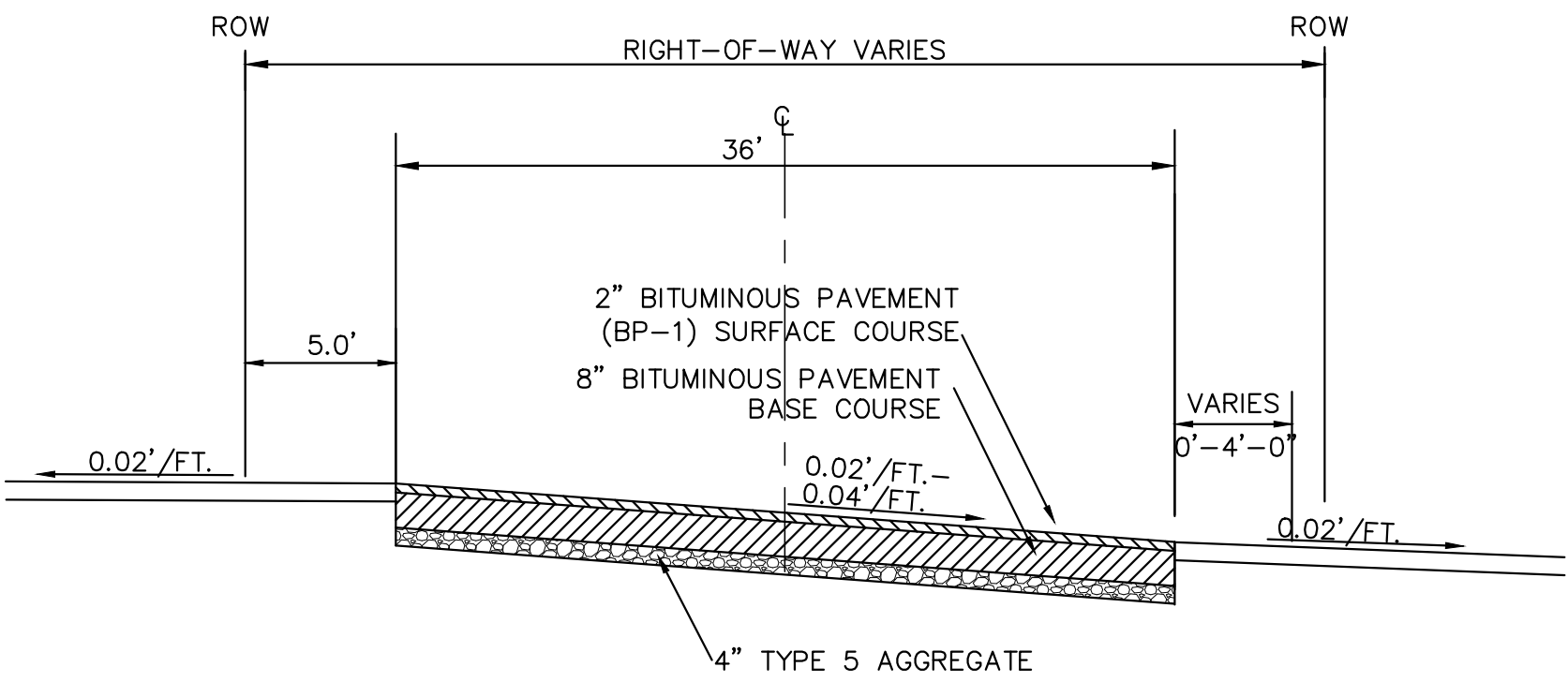
e =	0.04	
NC =	0.02	
L =	82.0000	
L/3 =	27.3	
2L/3 =	54.7	
X =	41.0000	
Begin Taper	10155.03	NC
PC	10182.36	Remove left crown
PC+L/3	10209.69	Left side at reverse NC
PC+2L/3	10237.03	full super
PT-2L/3	10334.35	full super
PT-L/3	10361.69	Left side at reverse NC
PT	10389.02	Remove left crown
End Taper	10416.35	NC



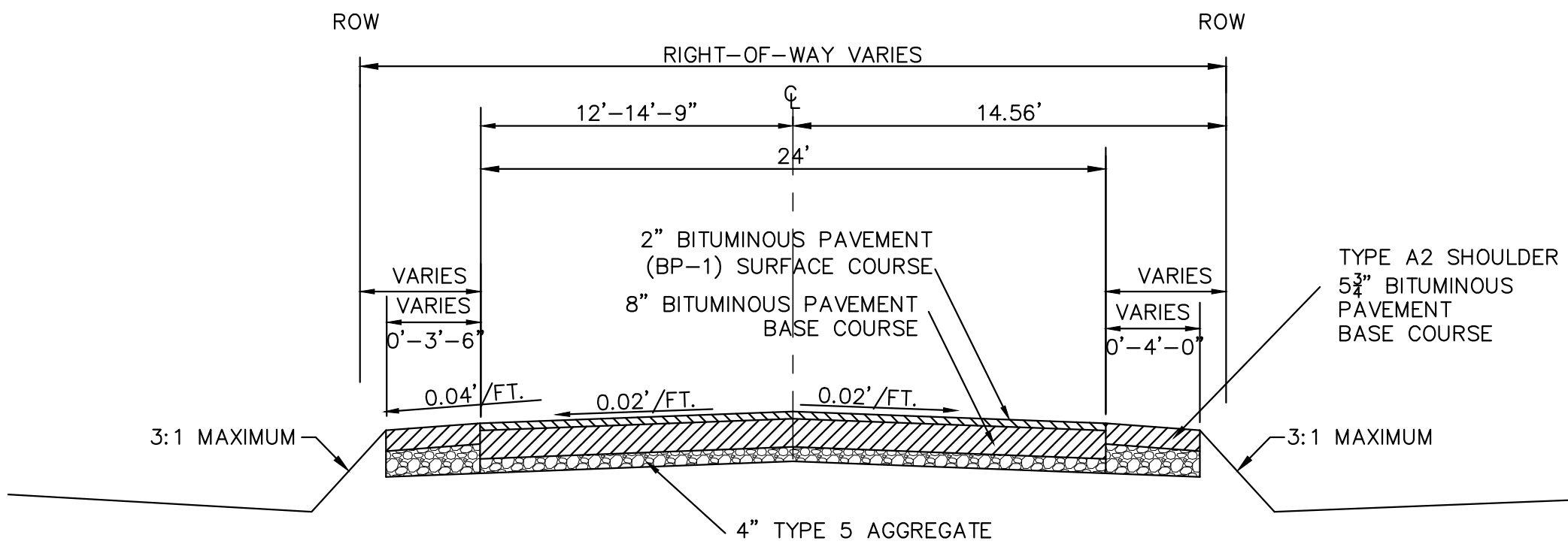
ROMAINE CREEK ROAD
STATION 101+54.60 - 101+55.03
STATION 103+89.02 - 104+74.60
N.T.S.



ROMAINE CREEK ROAD
STATION 103+61.69 - 103+89.02
N.T.S.



ROMAINE CREEK ROAD
STATION 102+09.69 - 103+61.69
N.T.S.



ROMAINE CREEK ROAD
STATION 101+55.03 - 102+09.69
N.T.S.

TYPICAL SECTIONS

Revisions

Date

DEVELOPER

JEFFERSON COUNTY
PUBLIC WORKS
P.O. BOX 100
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636-797-5340

SEAL

DAVID M. VONARX
REGISTERED PROFESSIONAL ENGINEER
STATE OF MISSOURI
LICENSE NUMBER 14557
EXPIRATION DATE 12/23/2015

CIVIL ENGINEER

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ROMAINE CREEK ROAD/ OLD 141
INTERSECTION IMPROVEMENT
CONSTRUCTION PLANS
PROJECT NO. PW16068RDW

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12/23/2015

SCALE

AS NOTED

Job Number

14557

Sheet Number

2.2



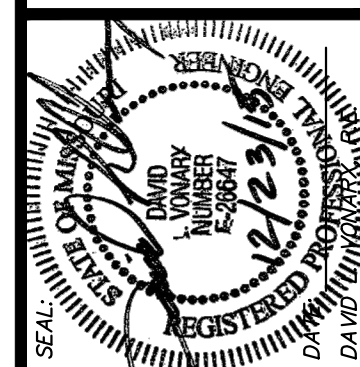
N.T.S

NOTE: WHEN JOINING TWO OR MORE SILT FENCES TOGETHER TIE THE TWO END POSTS TOGETHER WITH EXISTING NYLON CORD.

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DEVELOPER:

JEFFERSON COUNTY
PUBLIC WORKS
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CIVIL ENGINEER

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ROMAINE CREEK ROAD/ OLD 141
INTERSECTION IMPROVEMENT
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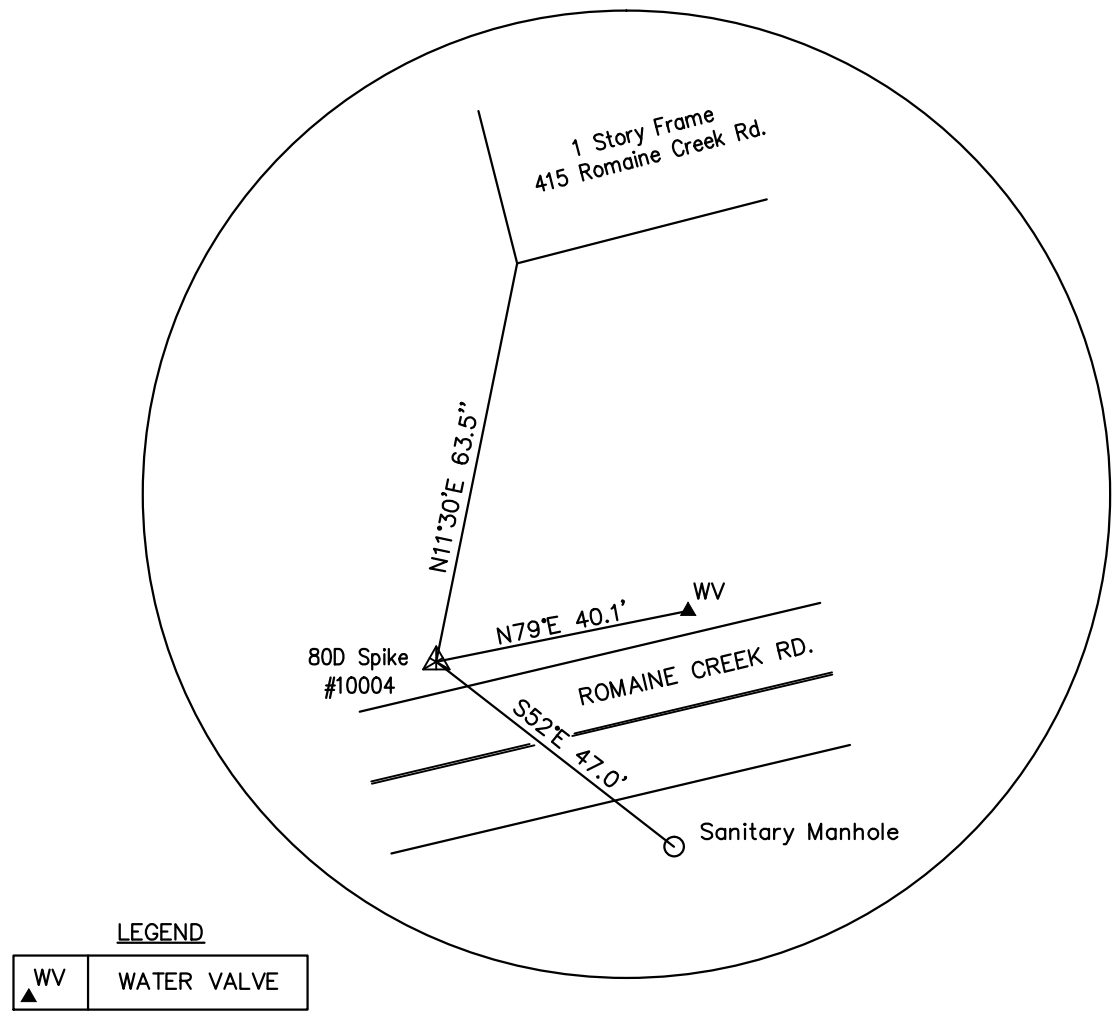
Job Number
14557

Sheet Number

2.3

DETAILS

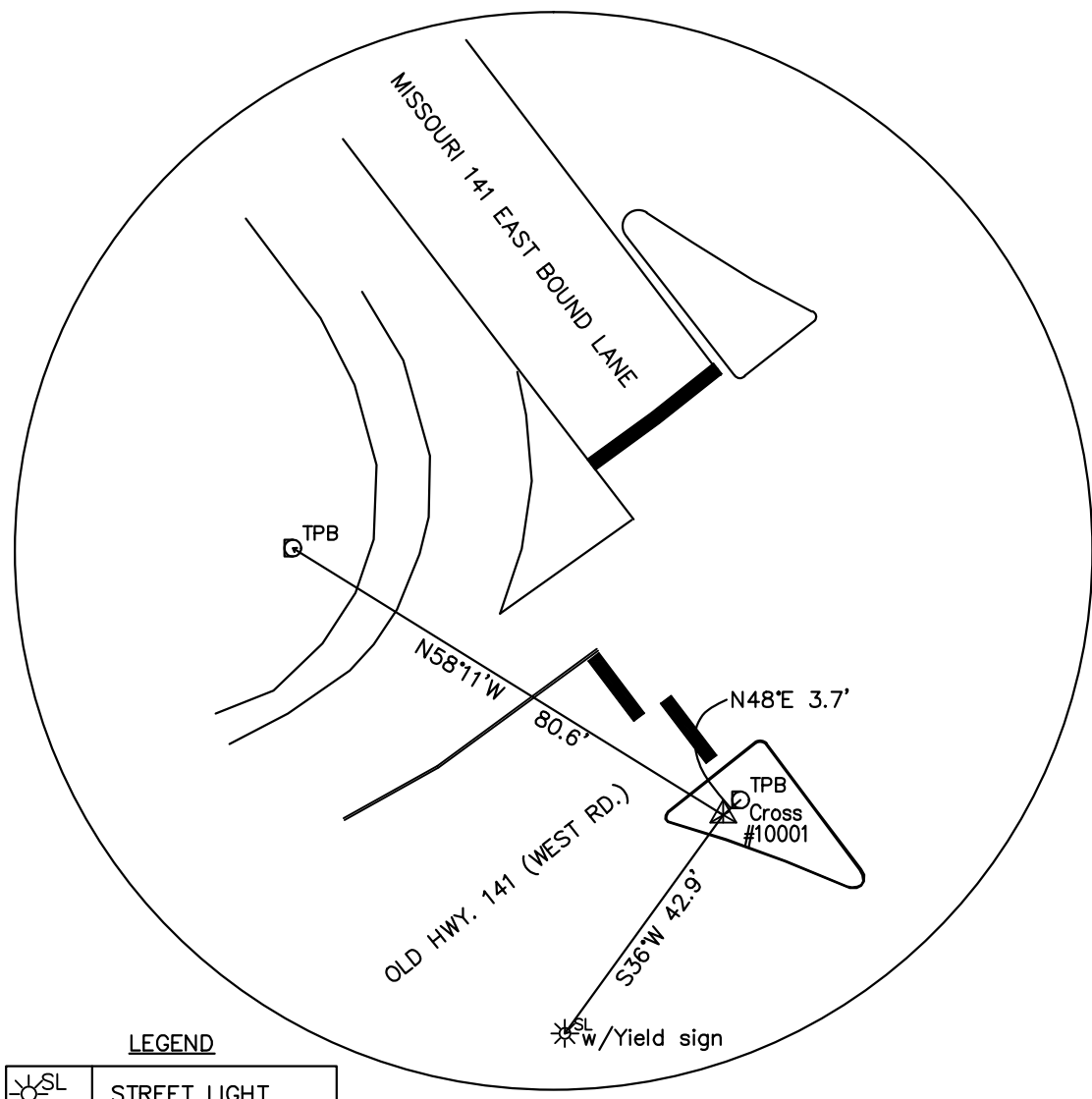
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LEGEND	
▲ WV	WATER VALVE

CONTROL POINT NO. 1

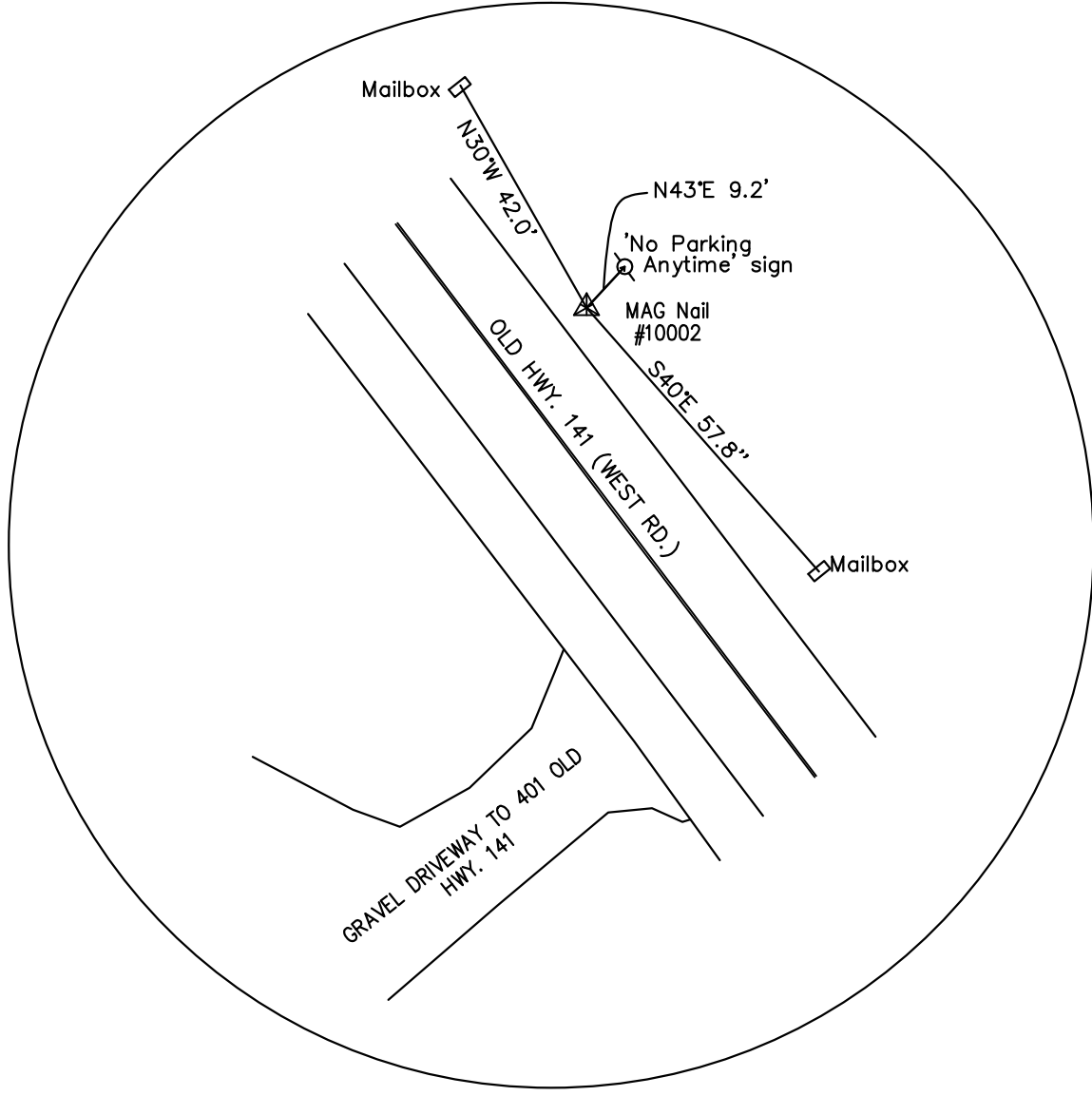
800 SPIKE #10004
N 959988.27
E 839150.12
ELEV. 413.58



LEGEND	
✱ SL	STREET LIGHT
D TPB	TRAFFIC PULLBOX

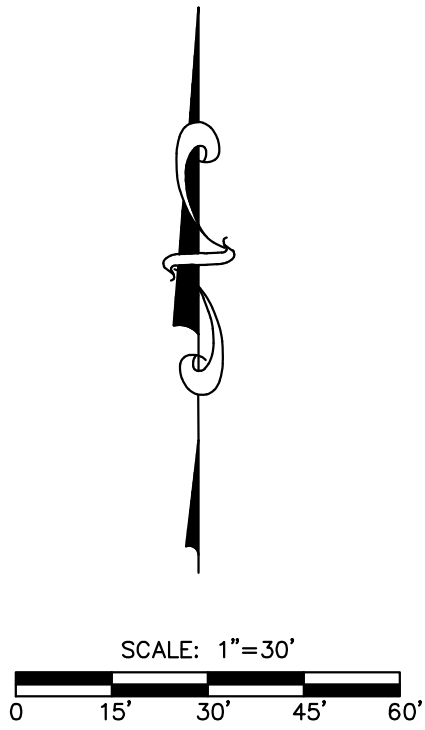
CONTROL POINT NO. 2

CROSS #10001
N 959892.48
E 839761.80
ELEV. 422.79



CONTROL POINT NO. 3

MAG NAIL #10002
N 960310.31
E 8393353.67
ELEV. 412.62



REFERENCE TIES

ROMAINE CREEK ROAD/ OLD 141
INTERSECTION IMPROVEMENT
CONSTRUCTION PLANS
PROJECT NO. PW16068RDW

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12/23/2015

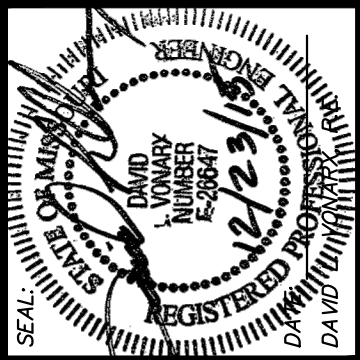
SCALE
AS NOTED

Job Number
14557

Sheet Number

2.4

CIVIL ENGINEER
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CERTIFICATE OF AUTHORITY 0875

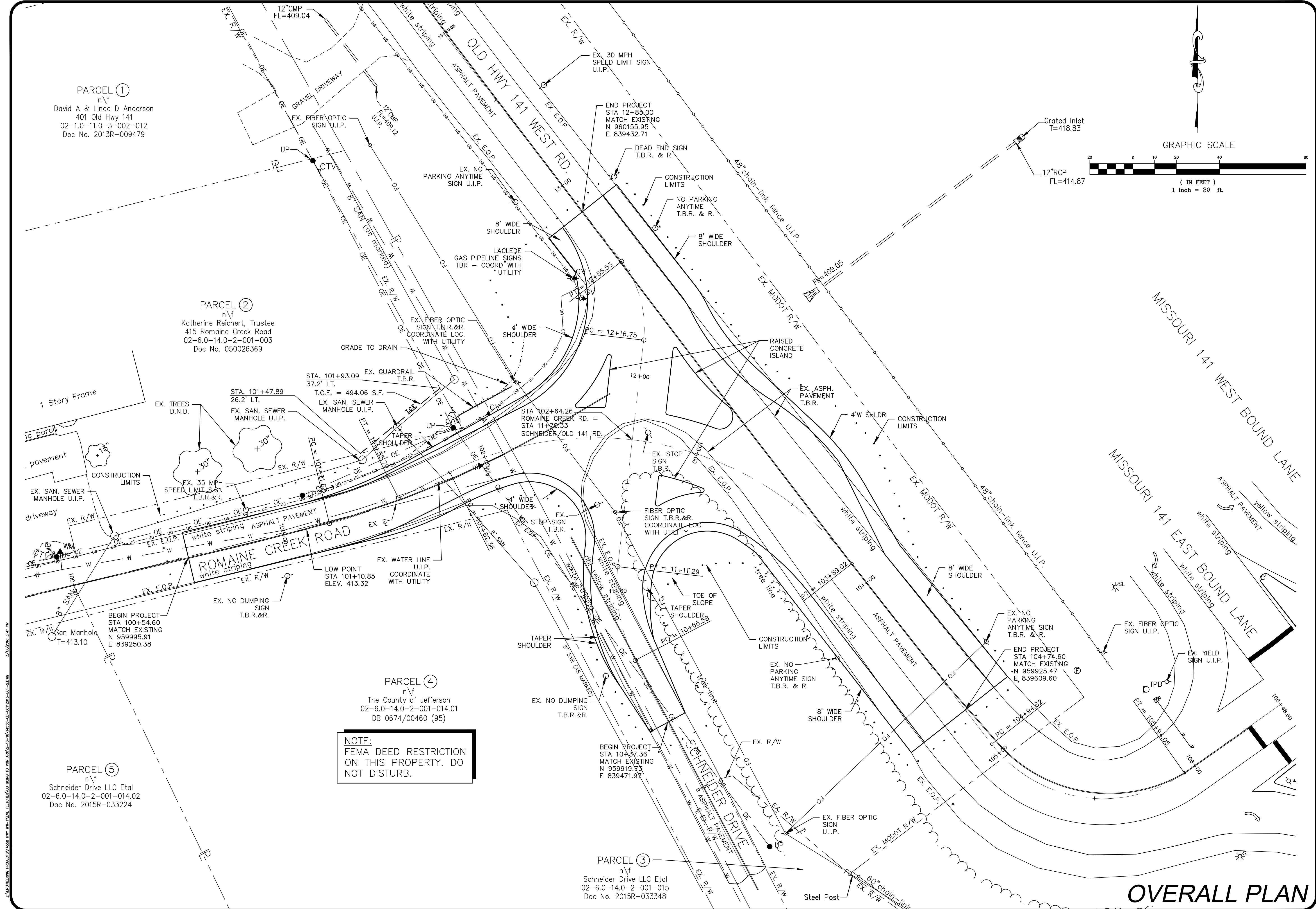


DEVELOPER:

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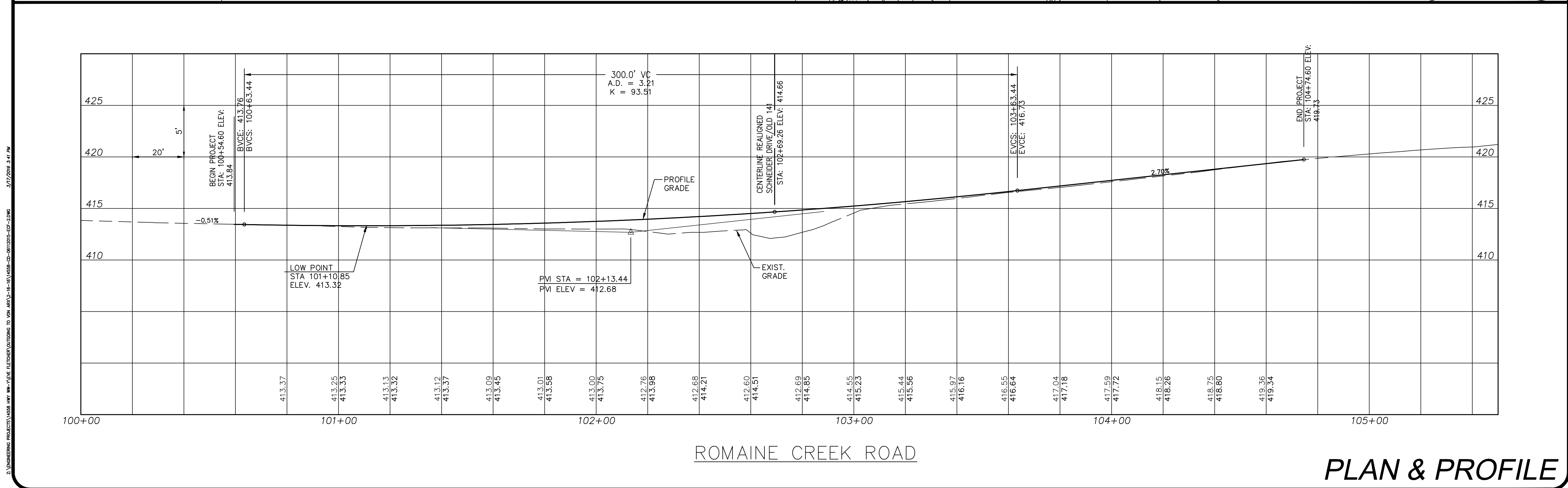
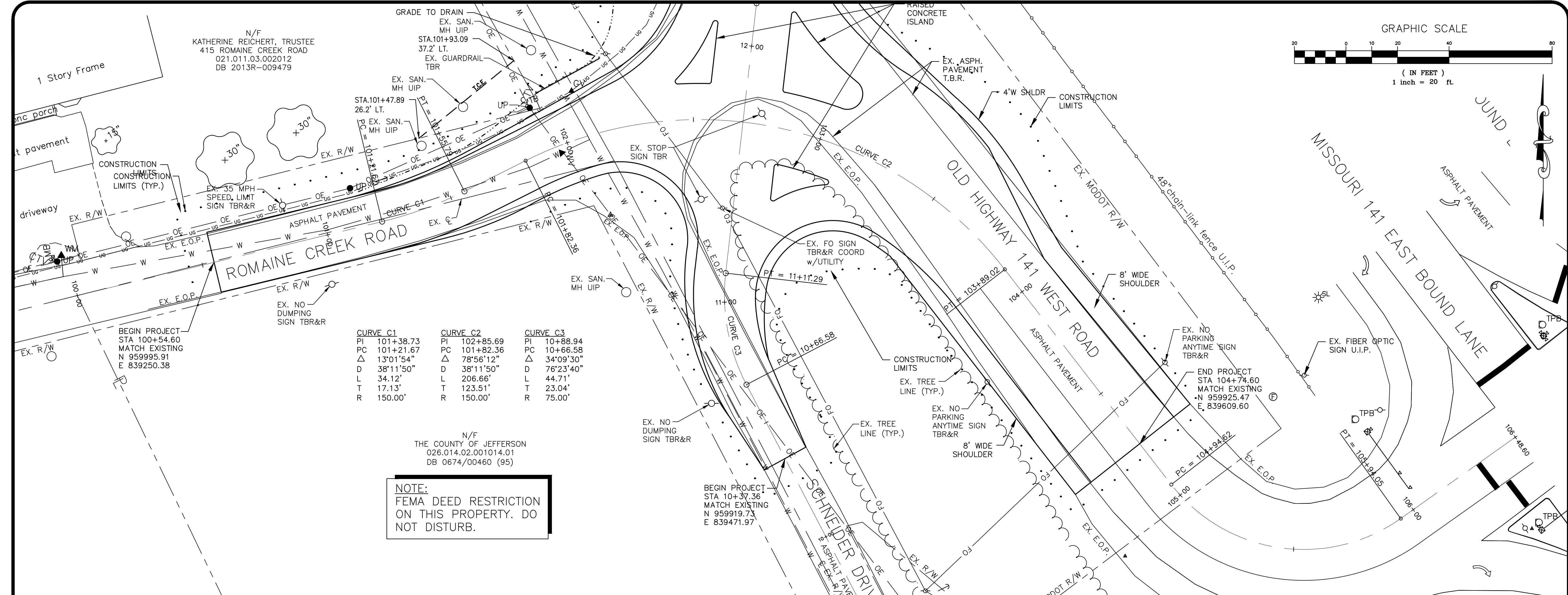
Date

Revisions



OVERALL PLAN

Revisions	
Date	
JEFFERSON COUNTY PUBLIC WORKS P.O. BOX 100 HILLSBORO, MISSOURI 63050 636-797-5340	
DEVELOPER	
SEAL: [Professional Engineer Seal]	
CIVIL ENGINEER	
VonArx Engineering 10785 BUSINESS 21, SUITE A HILLSBORO, MISSOURI 63050 OFFICE: (636) 797-6425 CELL: (314) 952-5038 CERTIFICATE OF AUTHORITY 0875	
ROMAINE CREEK ROAD/ OLD 141 INTERSECTION IMPROVEMENT CONSTRUCTION PLANS PROJECT NO. PW16068RDW	
ISSUE DATE 12/23/2015	
SCALE AS NOTED	
Job Number 14557	
Sheet Number 3.0	



Revisions

Date

DEVELOPER

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SEAL

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ROMAINE CREEK ROAD/ OLD 141
INTERSECTION IMPROVEMENT
CONSTRUCTION PLANS
PROJECT NO. PW16068RDW

ISSUE DATE

12/23/2015

SCALE

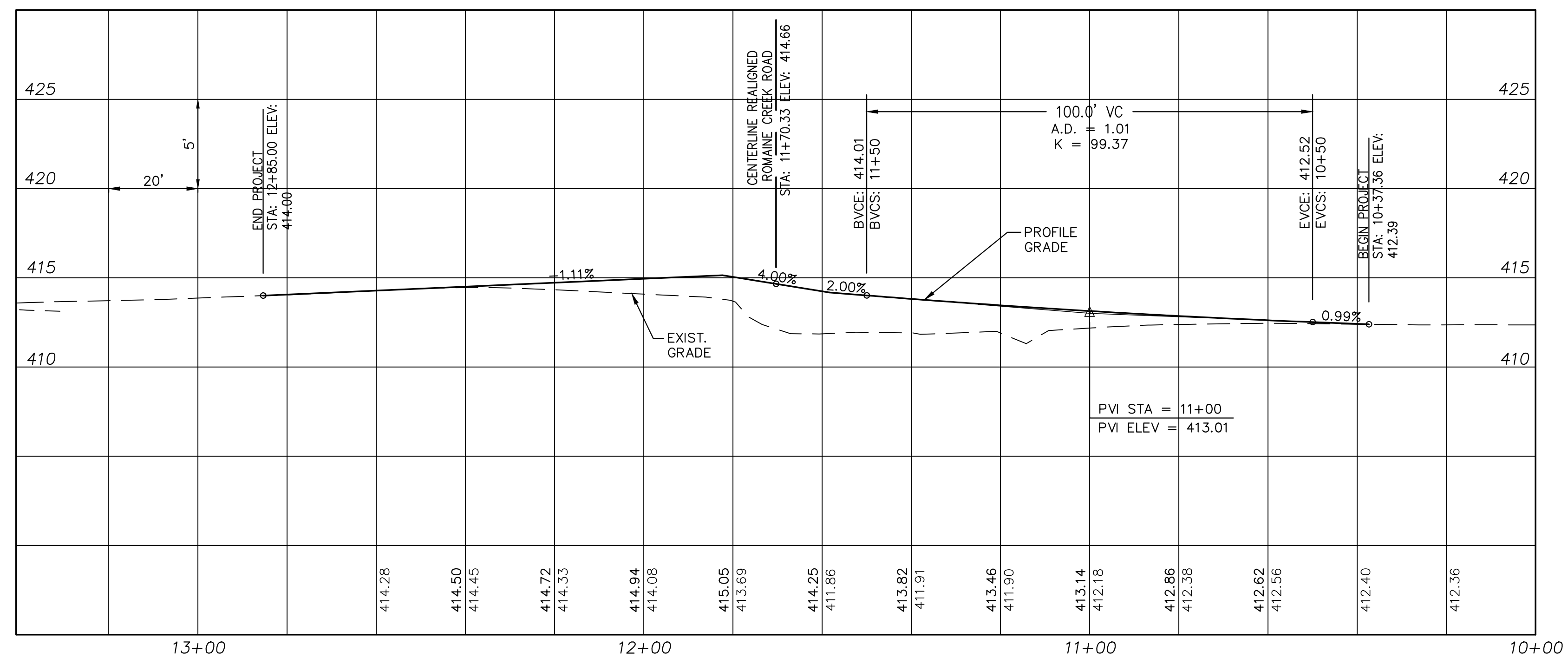
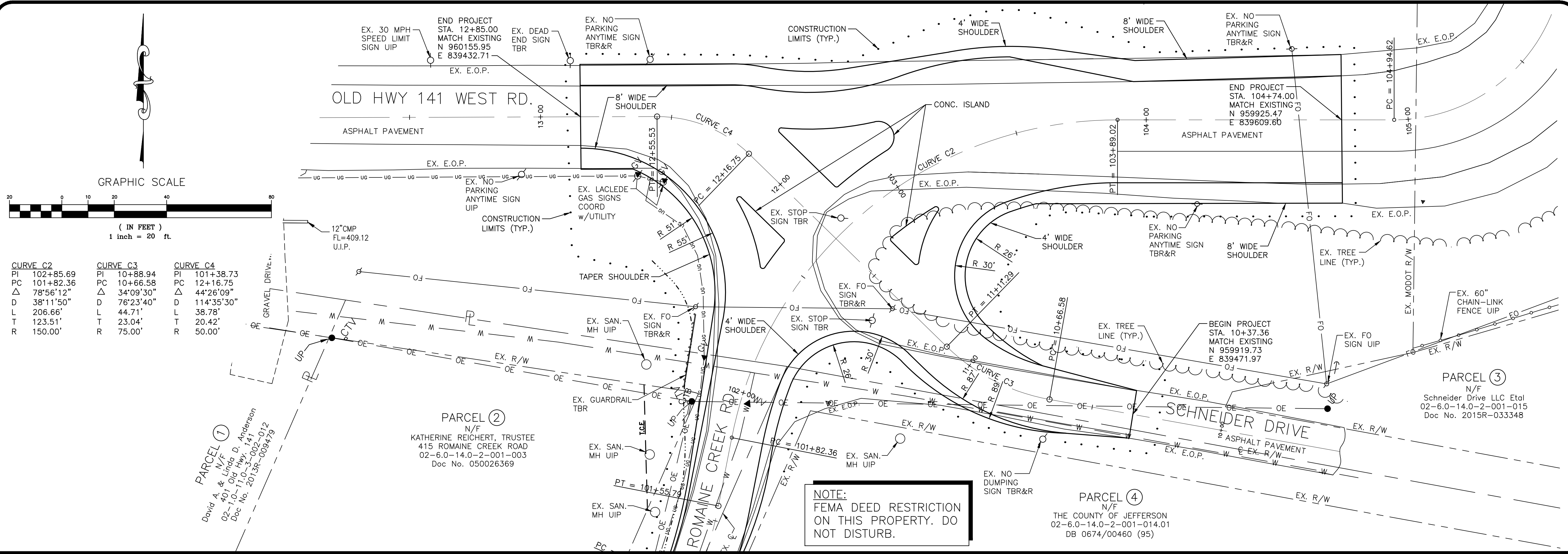
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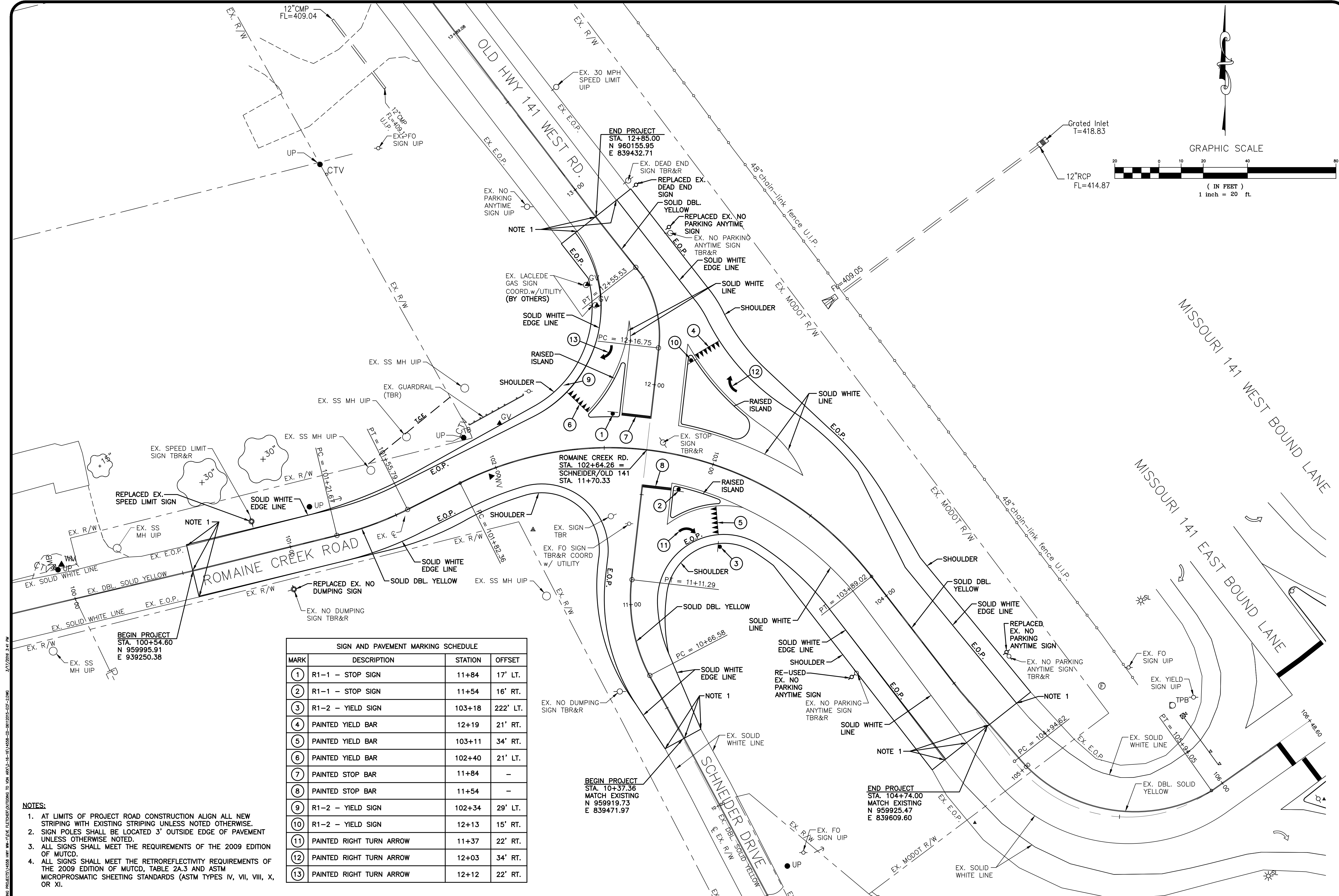
Job Number

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Sheet Number

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- NOTES:**
1. AT LIMITS OF PROJECT ROAD CONSTRUCTION ALIGN ALL NEW STRIPING WITH EXISTING STRIPING UNLESS NOTED OTHERWISE.
 2. SIGN POLES SHALL BE LOCATED 3' OUTSIDE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
 3. ALL SIGNS SHALL MEET THE REQUIREMENTS OF THE 2009 EDITION OF MUTCD.
 4. ALL SIGNS SHALL MEET THE RETROREFLECTIVITY REQUIREMENTS OF THE 2009 EDITION OF MUTCD, TABLE 2A.3 AND ASTM MICROPRISMATIC SHEETING STANDARDS (ASTM TYPES IV, VII, VIII, X, OR XI).

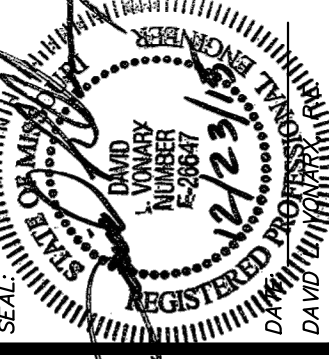
SIGN AND PAVEMENT MARKING SCHEDULE			
MARK	DESCRIPTION	STATION	OFFSET
①	R1-1 - STOP SIGN	11+84	17' LT.
②	R1-1 - STOP SIGN	11+54	16' RT.
③	R1-2 - YIELD SIGN	103+18	222' LT.
④	PAINTED YIELD BAR	12+19	21' RT.
⑤	PAINTED YIELD BAR	103+11	34' RT.
⑥	PAINTED YIELD BAR	102+40	21' LT.
⑦	PAINTED STOP BAR	11+84	-
⑧	PAINTED STOP BAR	11+54	-
⑨	R1-2 - YIELD SIGN	102+34	29' LT.
⑩	R1-2 - YIELD SIGN	12+13	15' RT.
⑪	PAINTED RIGHT TURN ARROW	11+37	22' RT.
⑫	PAINTED RIGHT TURN ARROW	12+03	34' RT.
⑬	PAINTED RIGHT TURN ARROW	12+12	22' RT.

Revisions

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JEFFERSON COUNTY
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DEVELOPER

SEAL: 

CIVIL ENGINEER

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CERTIFICATE OF AUTHORITY 0875

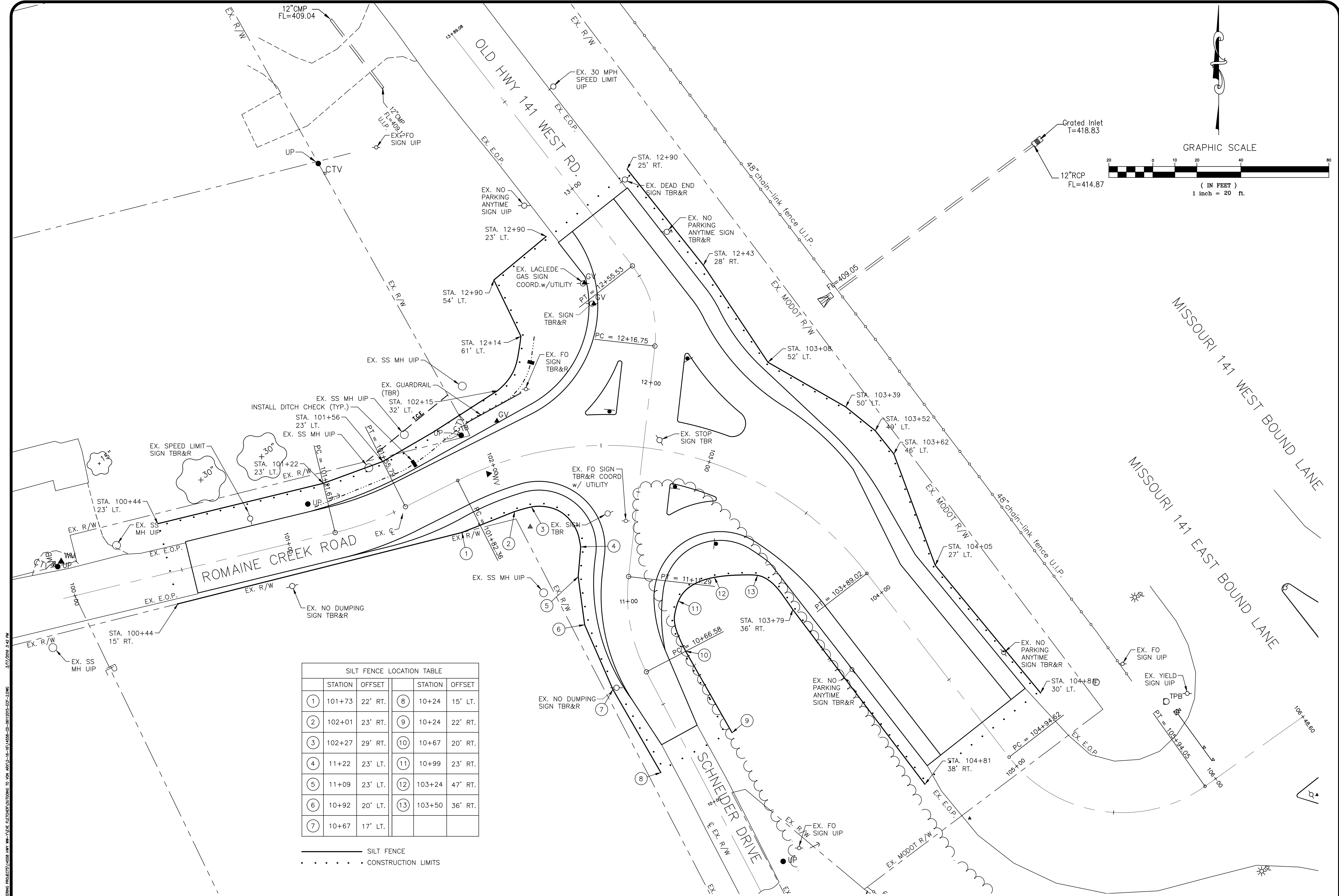
ROMAINE CREEK ROAD/ OLD 141
INTERSECTION IMPROVEMENT
CONSTRUCTION PLANS
PROJECT NO. PW16068RDW

ISSUE DATE
12/23/2015

SCALE
AS NOTED

Job Number
14557

Sheet Number
5.0



SILT FENCE LOCATION TABLE					
	STATION	OFFSET		STATION	OFFSET
①	101+73	22' RT.	⑧	10+24	15' LT.
②	102+01	23' RT.	⑨	10+24	22' RT.
③	102+27	29' RT.	⑩	10+67	20' RT.
④	11+22	23' LT.	⑪	10+99	23' RT.
⑤	11+09	23' LT.	⑫	103+24	47' RT.
⑥	10+92	20' LT.	⑬	103+50	36' RT.
⑦	10+67	17' LT.			

— SILT FENCE
• • • • • CONSTRUCTION LIMITS

EROSION CONTROL PLAN

3/7/2016 3:42 PM Z:\ENGINEERING\PROJECTS\14558 HWY 141\EROSION\OUTGOING TO VON ARX\2-16-16\14558-02-001016-ESF-1.DWG

Revisions

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DEVELOPER

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ROMAINE CREEK ROAD/ OLD 141
INTERSECTION IMPROVEMENT
CONSTRUCTION PLANS
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AS NOTED

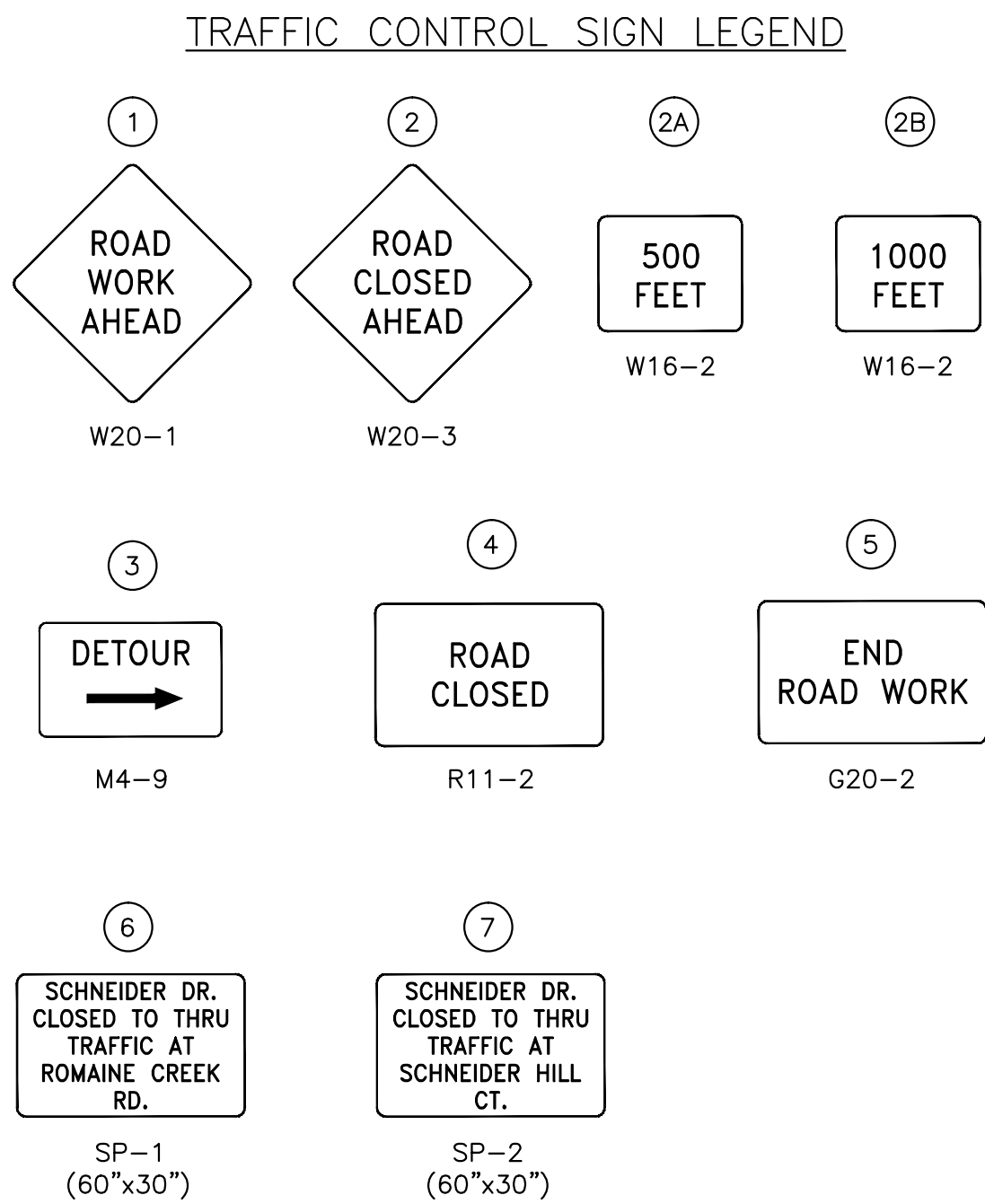
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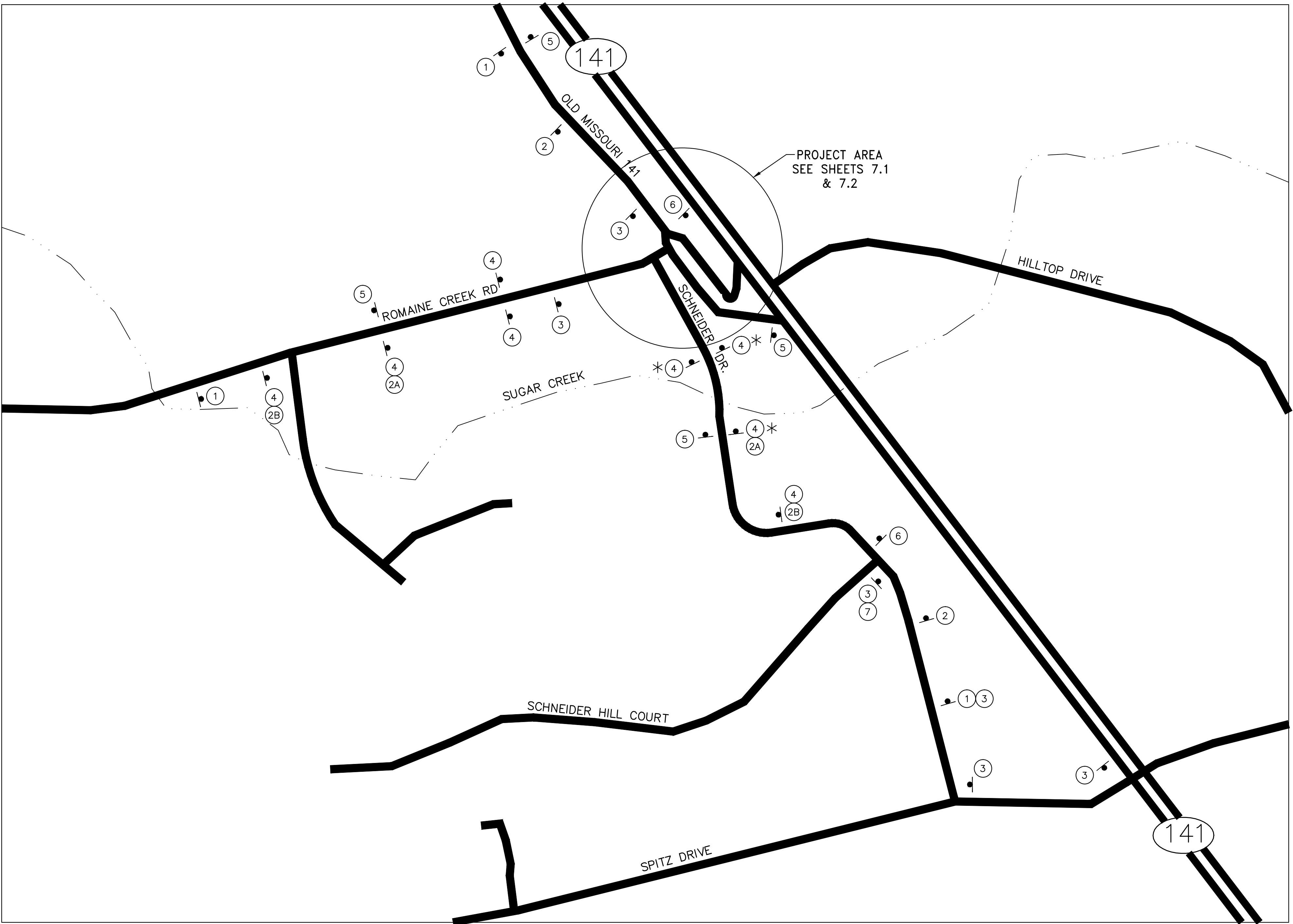
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- NOTES:
- SIGN POLES SHALL BE LOCATED 3' OUTSIDE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
 - ALL TRAFFIC CONTROL DEVICES SHALL MEET THE REQUIREMENTS OF THE 2009 EDITION OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 - ALL SIGNS SHALL MEET THE RETROREFLECTIVITY REQUIREMENTS OF THE 2009 EDITION OF MUTCD, TABLE 2A.3 AND ASTM MICROPROSMATIC SHEETING STANDARDS (ASTM TYPES IV, VII, VIII, X, OR XI).
 - 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 NOTED OTHERWISE.
 - USE (1) TYPE III MOVABLE BARRICADE FOR EVERY 8 FEET OF PAVEMENT WIDTH TO BE CLOSED.

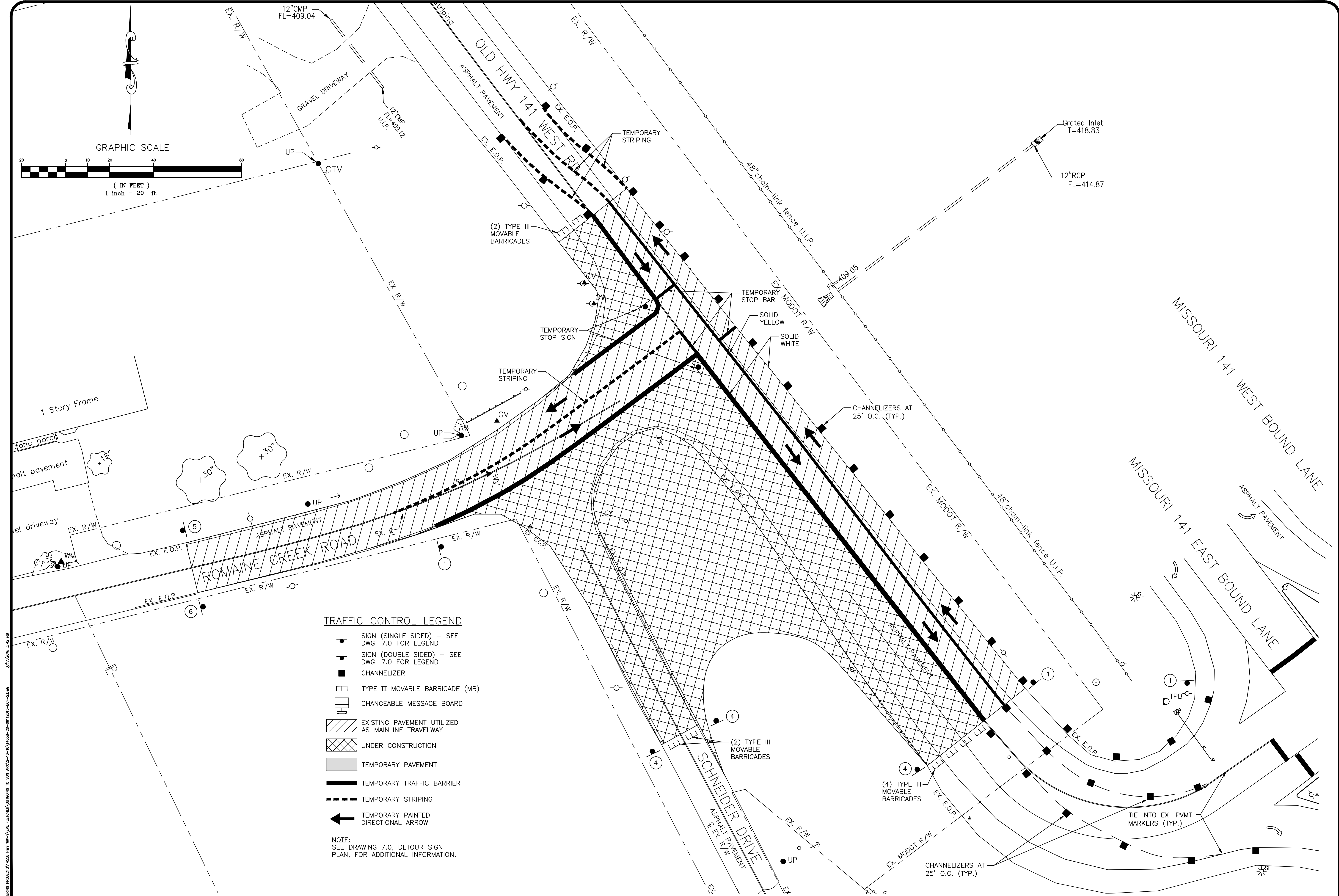


ROMAINE CREEK AT SCHNEIDER/OLD 141 DETOUR SIGN PLAN

- LEGEND:
- * REMOVE ROAD CLOSED SIGNS FOR T.C.P. PHASE 2

TRAFFIC CONTROL - DETOUR SIGN PLAN

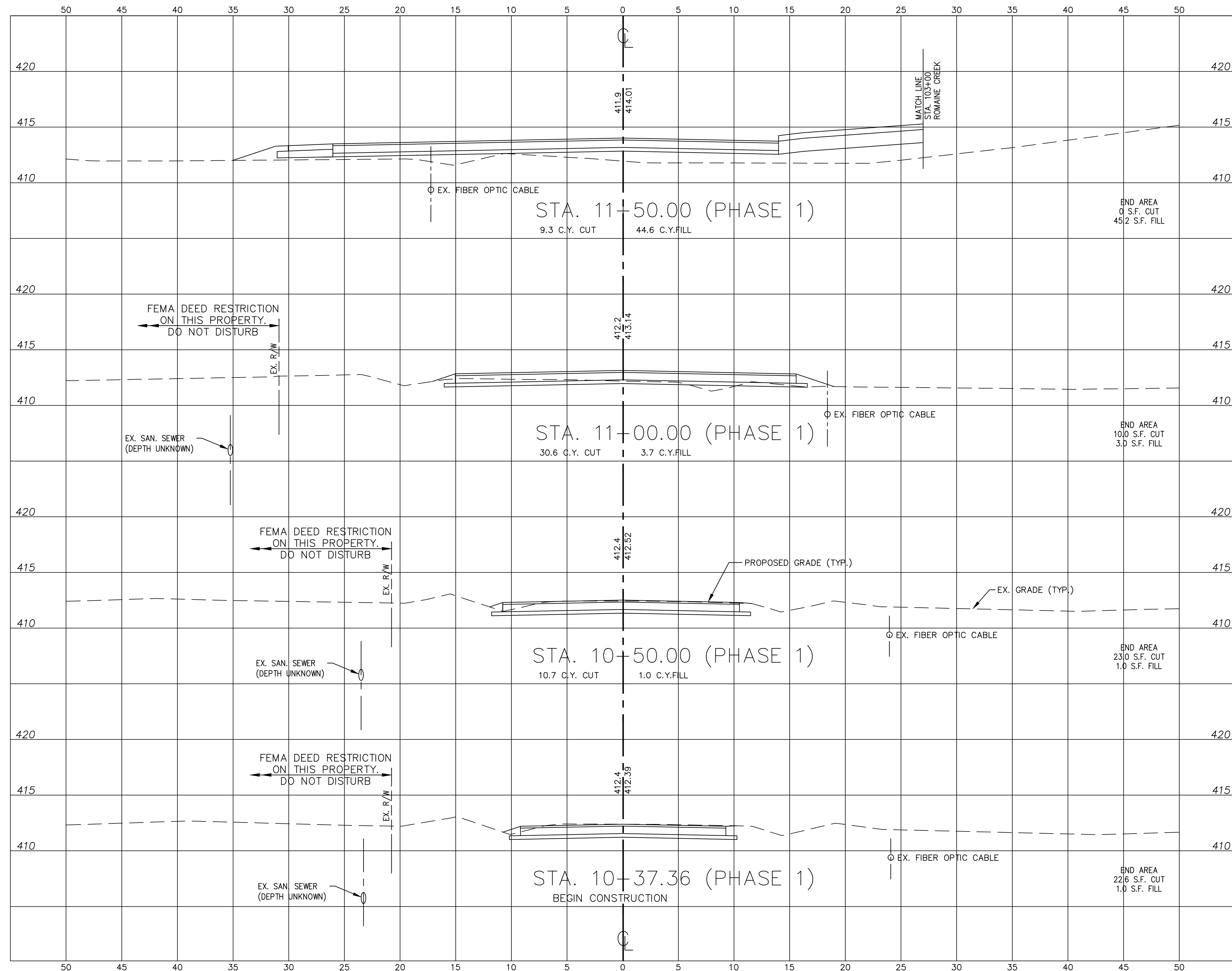
Revisions	Date	JEFFERSON COUNTY PUBLIC WORKS P.O. BOX 100 HILLSBORO, MISSOURI 63050 636-797-5340
DEVELOPER:	SEAL:	
CIVIL ENGINEER		OFFICE: (636) 797-6425 HILLSBORO, MISSOURI 63050 CELL: (314) 952-5038 CERTIFICATE OF AUTHORITY: 0875
ROMAINE CREEK ROAD/ OLD 141 INTERSECTION IMPROVEMENT CONSTRUCTION PLANS PROJECT NO. PW16068RDW		
ISSUE DATE 12/23/2015		
SCALE AS NOTED		
Job Number 14557		
Sheet Number 7.0		



- TRAFFIC CONTROL LEGEND**
- SIGN (SINGLE SIDED) — SEE DWG. 7.0 FOR LEGEND
 - SIGN (DOUBLE SIDED) — SEE DWG. 7.0 FOR LEGEND
 - CHANNELIZER
 - TYPE III MOVABLE BARRICADE (MB)
 - CHANGEABLE MESSAGE BOARD
 - EXISTING PAVEMENT UTILIZED AS MAINLINE TRAVELWAY
 - UNDER CONSTRUCTION
 - TEMPORARY PAVEMENT
 - TEMPORARY TRAFFIC BARRIER
 - TEMPORARY STRIPING
 - TEMPORARY PAINTED DIRECTIONAL ARROW
- NOTE:**
SEE DRAWING 7.0, DETOUR SIGN PLAN, FOR ADDITIONAL INFORMATION.

TRAFFIC CONTROL PLAN - PHASE 1

Revisions	
Date	
JEFFERSON COUNTY PUBLIC WORKS P.O. BOX 100 HILLSBORO, MISSOURI 63050 636-797-5340	
DEVELOPER	
SEAL: [Professional Engineer Seal]	
CIVIL ENGINEER VonArx Engineering OFFICE: (636) 797-8425 10785 BUSINESS 21, SUITE A HILLSBORO, MISSOURI 63050 CELL: (314) 952-5038 CERTIFICATE OF AUTHORITY: 0875	
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CROSS SECTIONS

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CROSS SECTIONS

ROMAINE CREEK ROAD/ OLD 141
INTERSECTION IMPROVEMENT
CONSTRUCTION PLANS
PROJECT NO. PW16068RDW

8.4