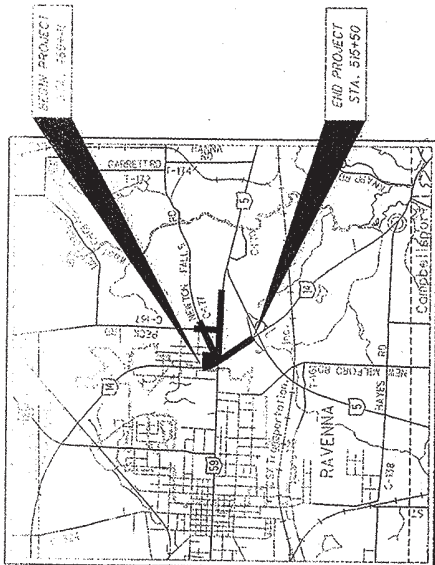




POR - SR 14-12.55
150278 PID - 78278
Dist 4 5/7/2015

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

POR-14-12.55

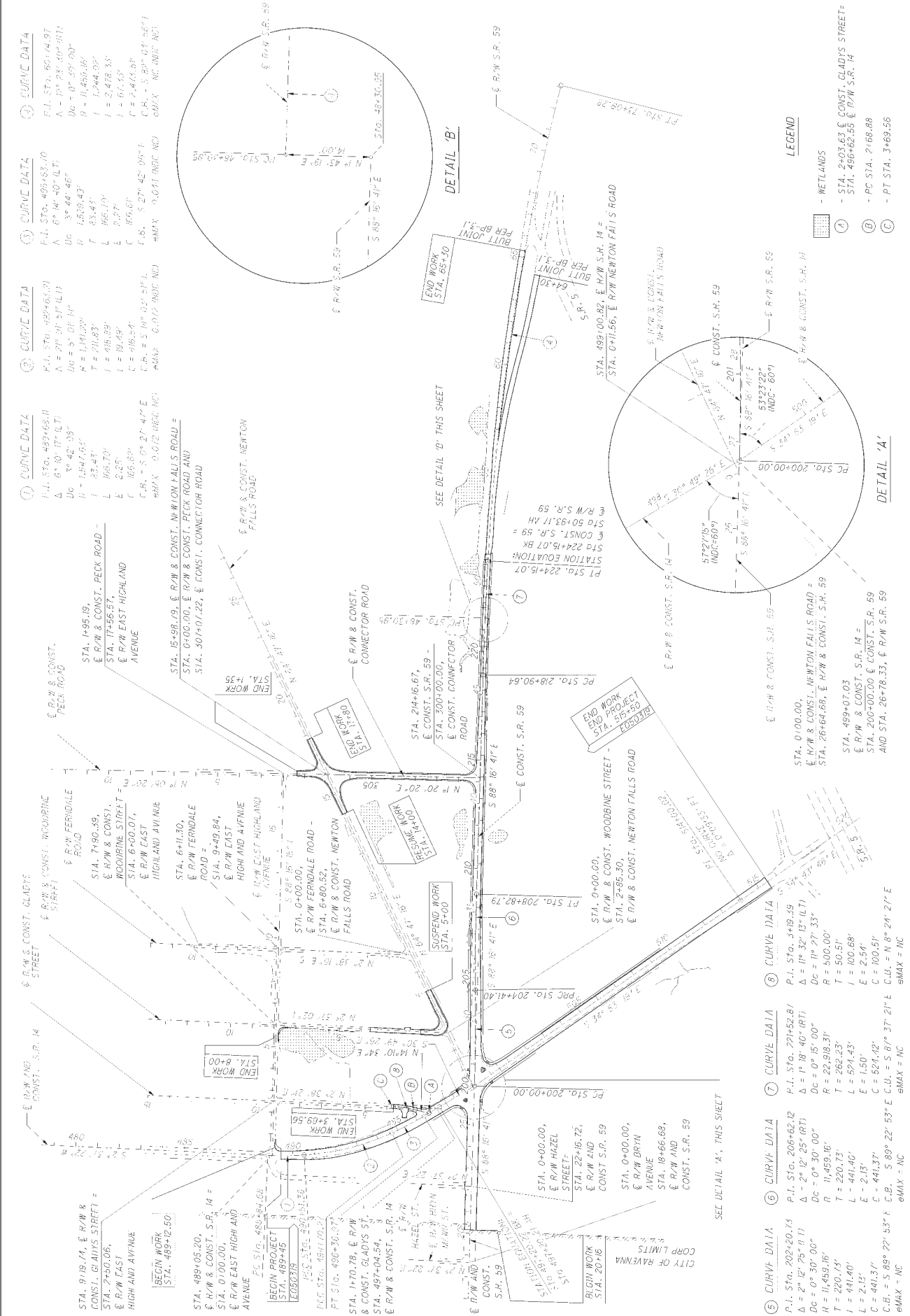
RAVENNA TOWNSHIP PORTAGE COUNTY

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STANDARD CONSTRUCTION DRAWINGS

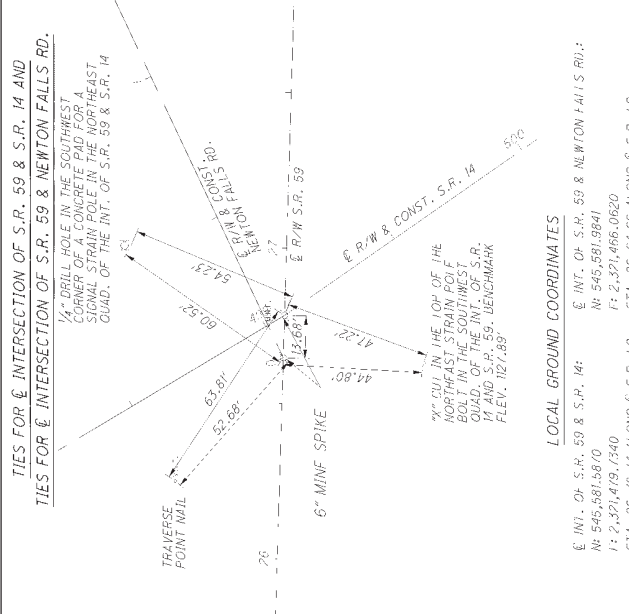
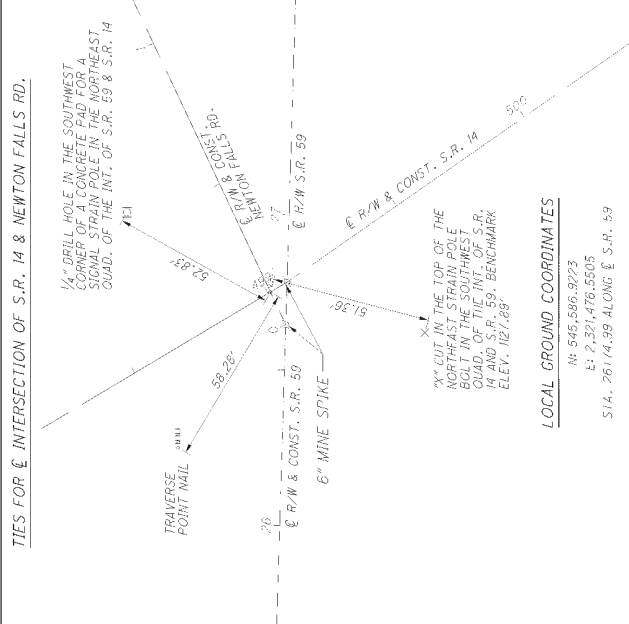
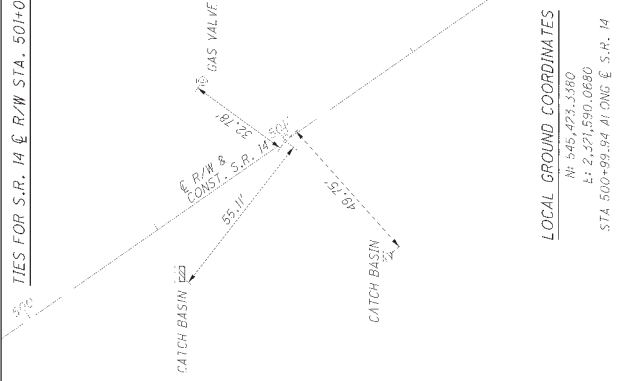
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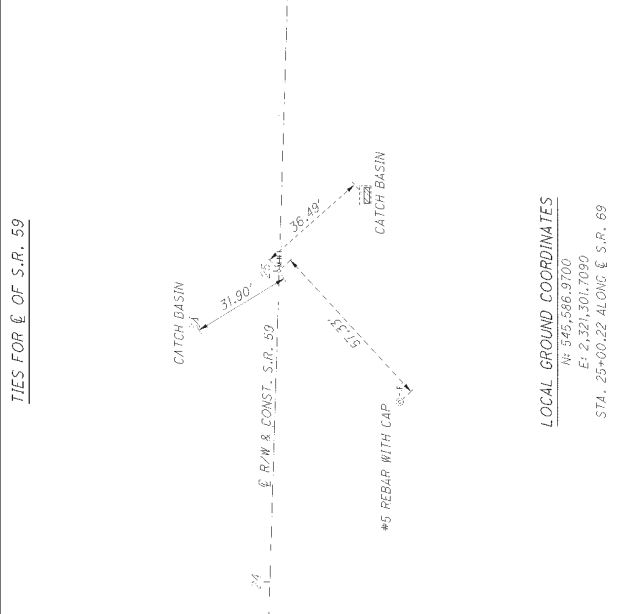
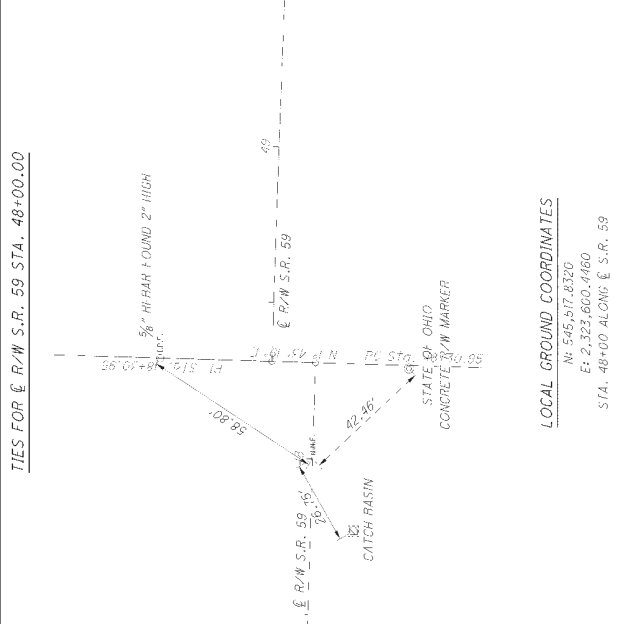
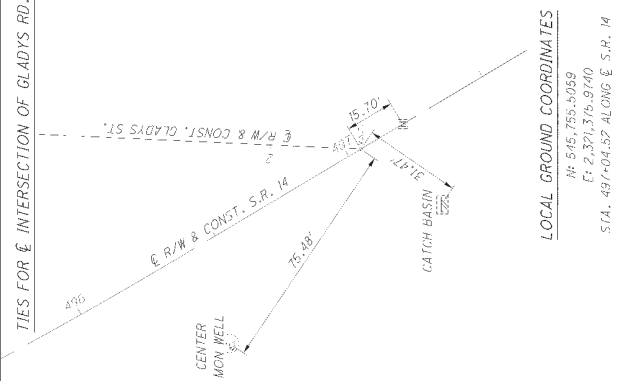
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TIES FOR 6 INTERSECTION OF S.R. 59 & S.R. 14 AND
TIES FOR 6 INTERSECTION OF S.R. 59 & NEWTON FALLS RD.

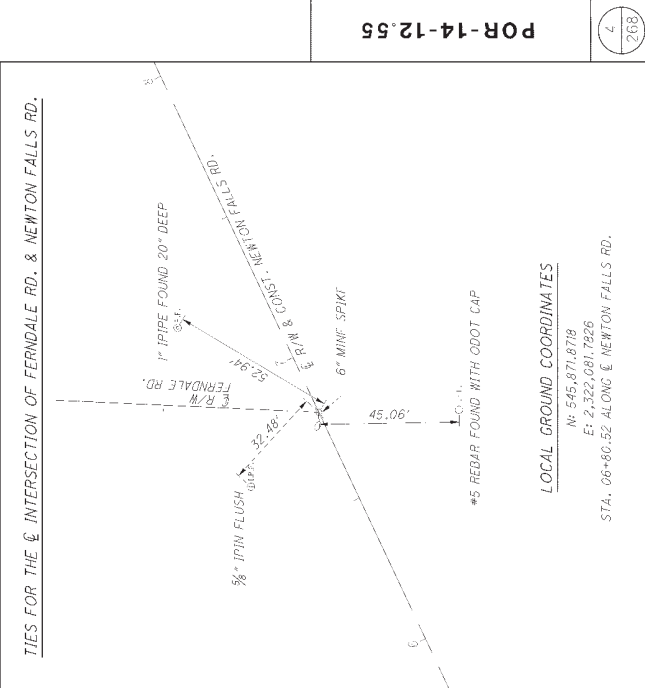
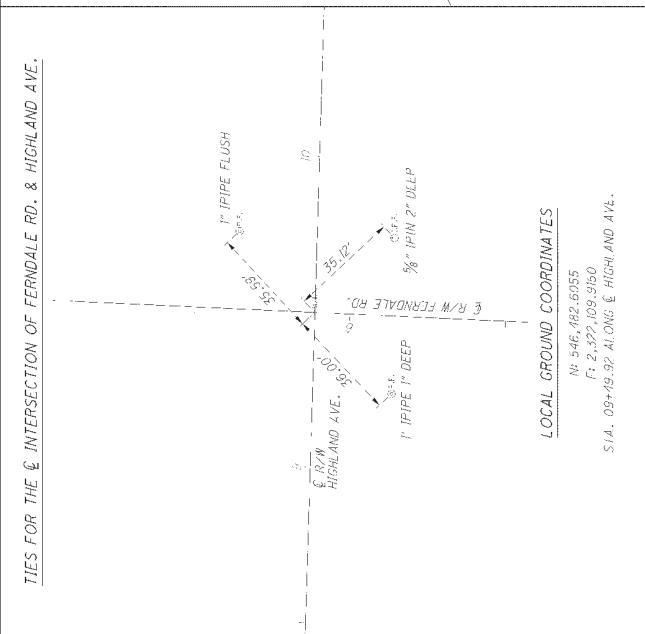
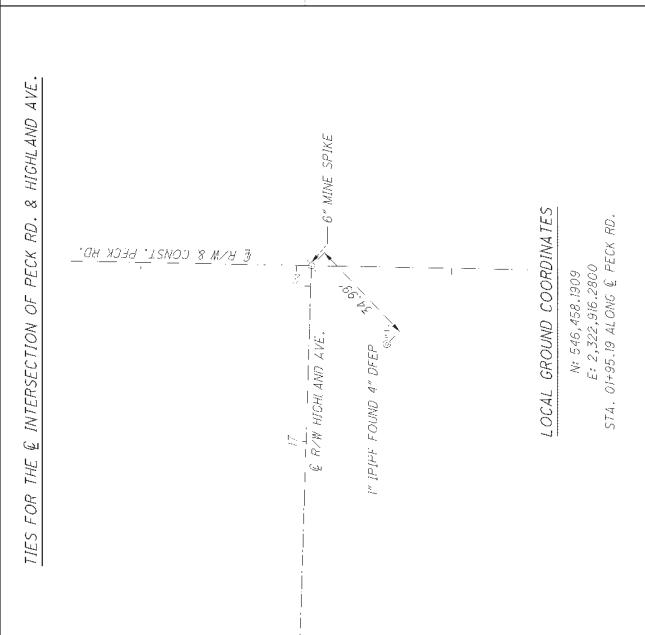
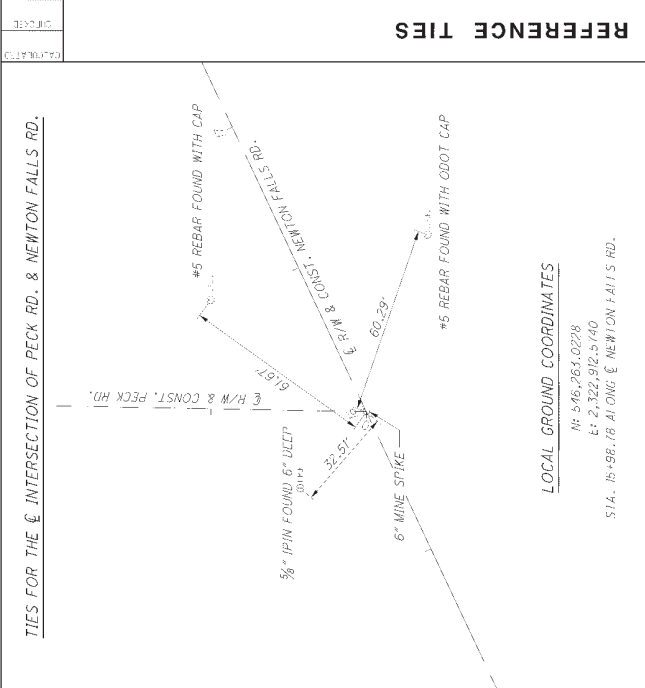
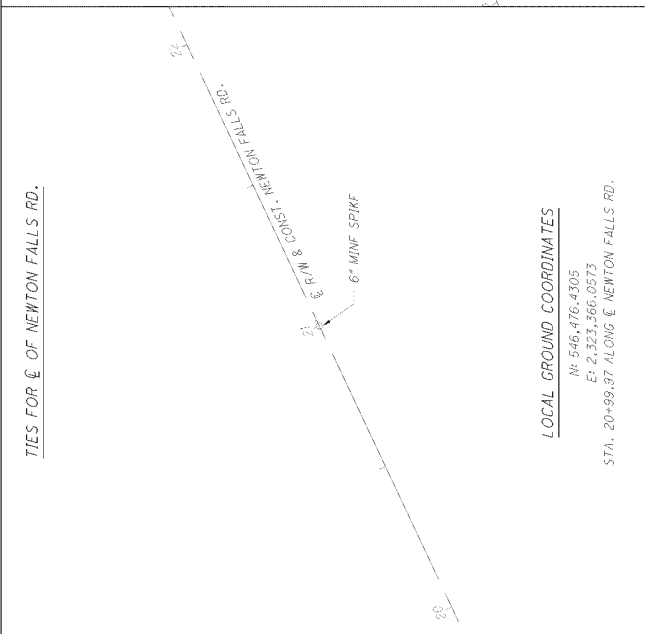
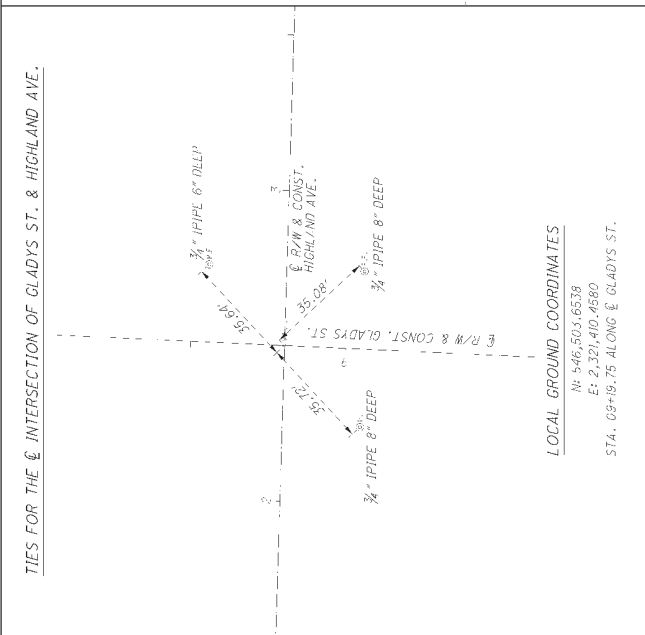
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TIES FOR C R/W S.R. 59 STA. 48+00.00

TIES FOR £ OF S.R. 59

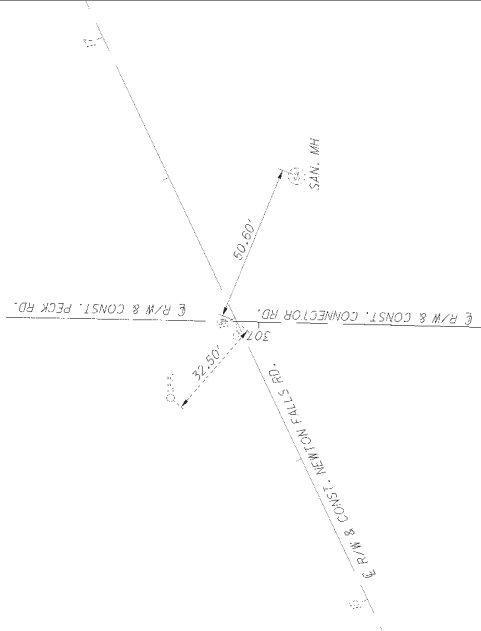


REFERENCE TIES



DATE	CAUTION
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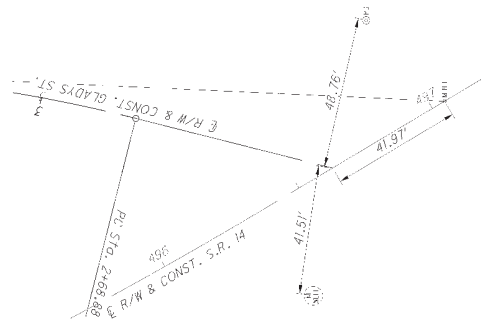
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LOCAL GROUND COORDINATES

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E: 2,322,912.5713
SIA. 15198.78 ALONG E NEWTON FALLS RD.

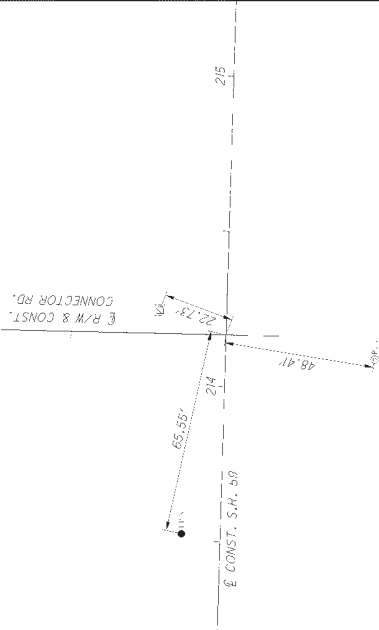
TIES FOR THE $\mathbb{C}$ INTERSECTION OF GLADYS ST. & S.R. 14



LOCAL GROUND COORDINATES

N: 545,791.5412
E: 2,321,354.4573
STA. 496+62.55 ALONG C S.R. 14

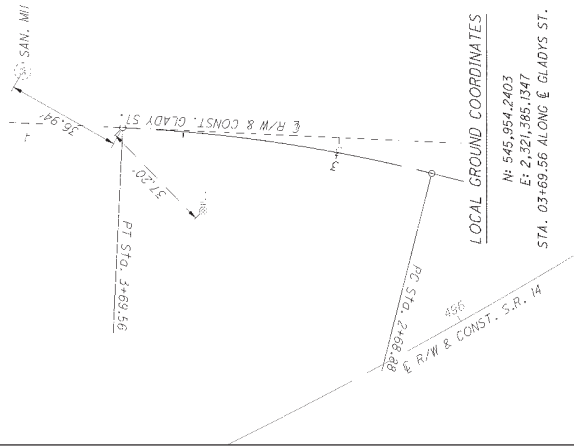
TIES FOR THE $\mathbb{C}$ INTERSECTION OF S.R. 59 & CONNECTOR RD.



LOCAL GROUND COORDINATES

N: 545,556.0156
E: 2,322,896.0501
STA. 214+16.78 ALONG E S.R. 59

TIES FOR THE JOINING OF PROP. C R/W GLADYS ST.
TO EX. C R/W GLADYS ST.



LOCAL GROUND COORDINATES

N: 545,954.2403
E: 2,321,385.1347
STA. 03+69.56 ALONG E GLADYS ST.

DESIGN DESIGNATION

S.R. 59
WEST OF SR 14

CURRENT ADT (2014)	11,070
DESIGN YEAR ADT (2034)	11,290
DESIGN HOURLY VOLUME (2014)	1,020
DIRECTIONAL DISTRIBUTION	0.64
TRUCKS (24 HOUR B&C)	3%
DESIGN SPEED	45 MPH
LEGAL SPEED	35 MPH
DESIGN FUNCTIONAL CLASSIFICATION	URBAN F

S.R. 59
FAST OF SR 14

CURRENT ADT (2014)	9,640
DESIGN YEAR ADT (P234)	11,080
DESIGN HOURLY VOLUME (2014)	1,020
DIRECTIONAL DISTRIBUTION	0.57
THICKS (24 HOUR B/C)	5%
DESIGN SPEED	60 MPH
LEGAL SPEED	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION	URBAN F

S.P. 59
EAST OF CONNECTOR R

CURRENT ADT (2014)	5,980
DESIGN YEAR ADT (2034)	7,070
DESIGN HOURLY VOLUME (2014)	650
DIRECTIONAL DISTRIBUTION	0.60
TRUCKS (24 HOUR D&C)	5%
DESIGN SPEED	60 MPH
LEGAL SPEED	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION	URBAN F

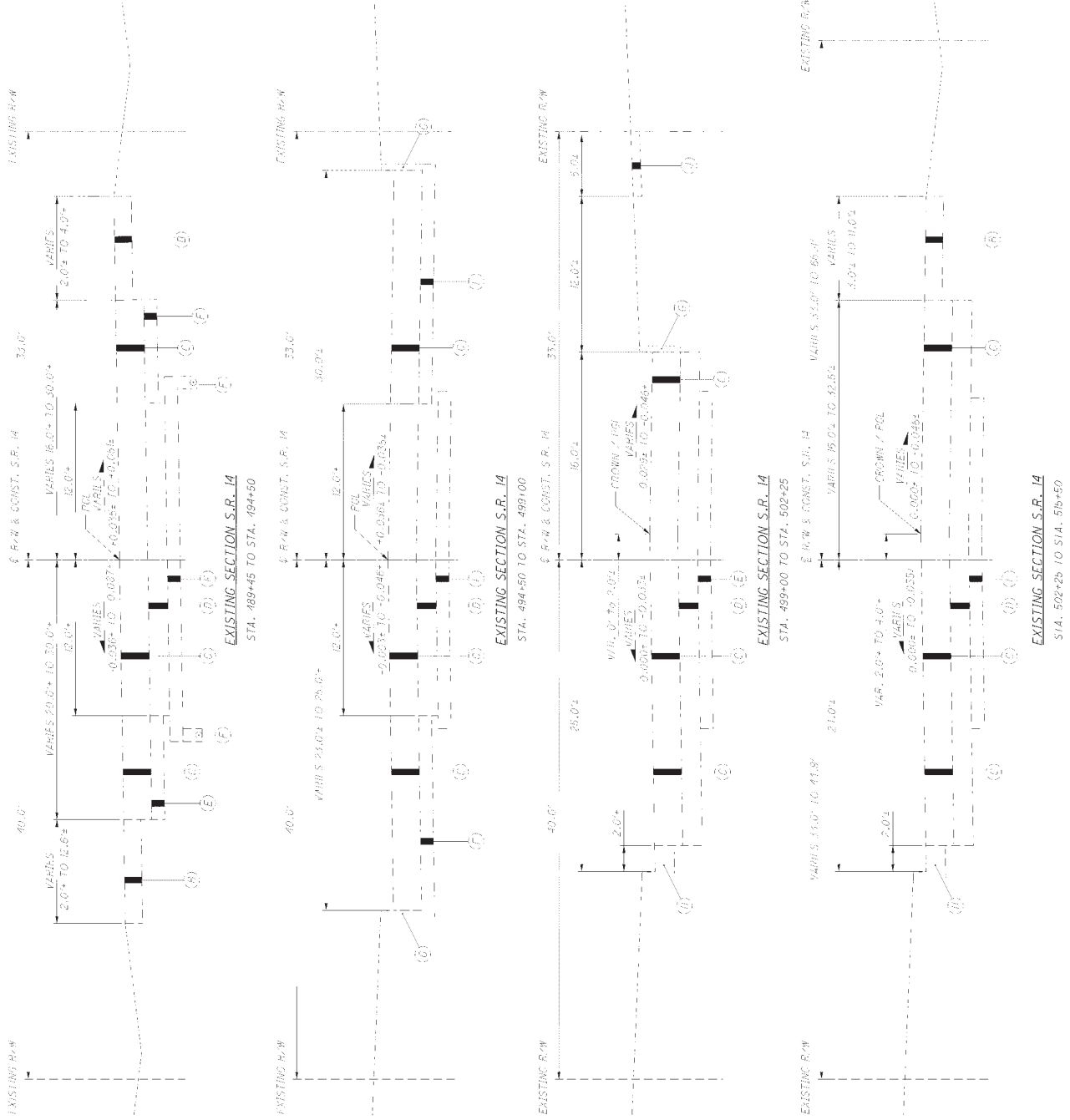
S.R. 14
NORTH OF S.R. 59

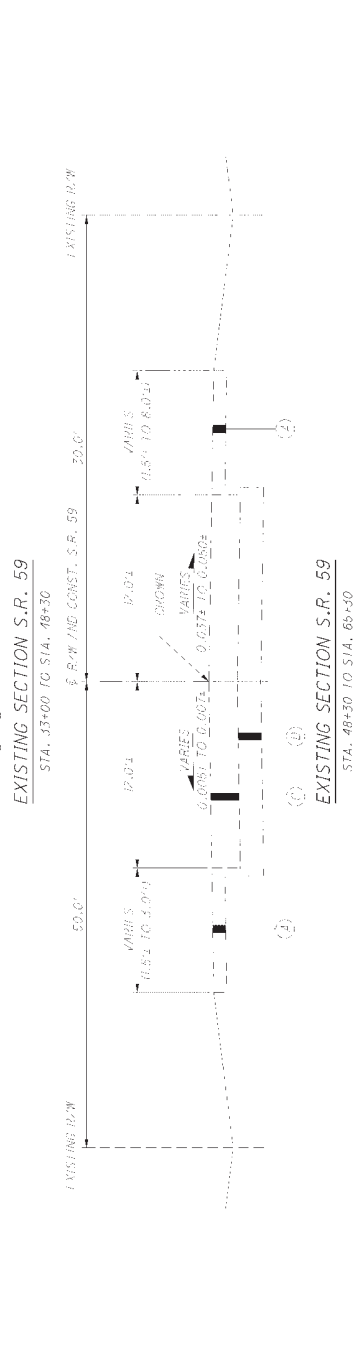
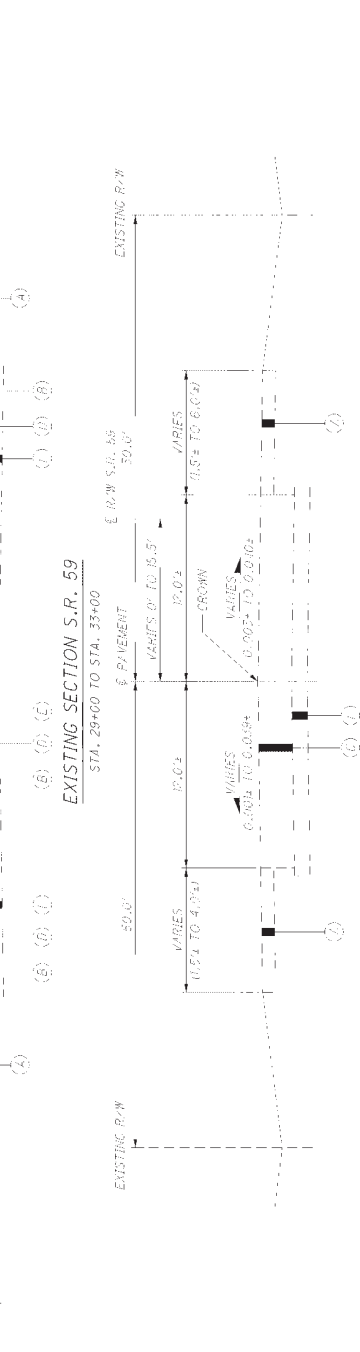
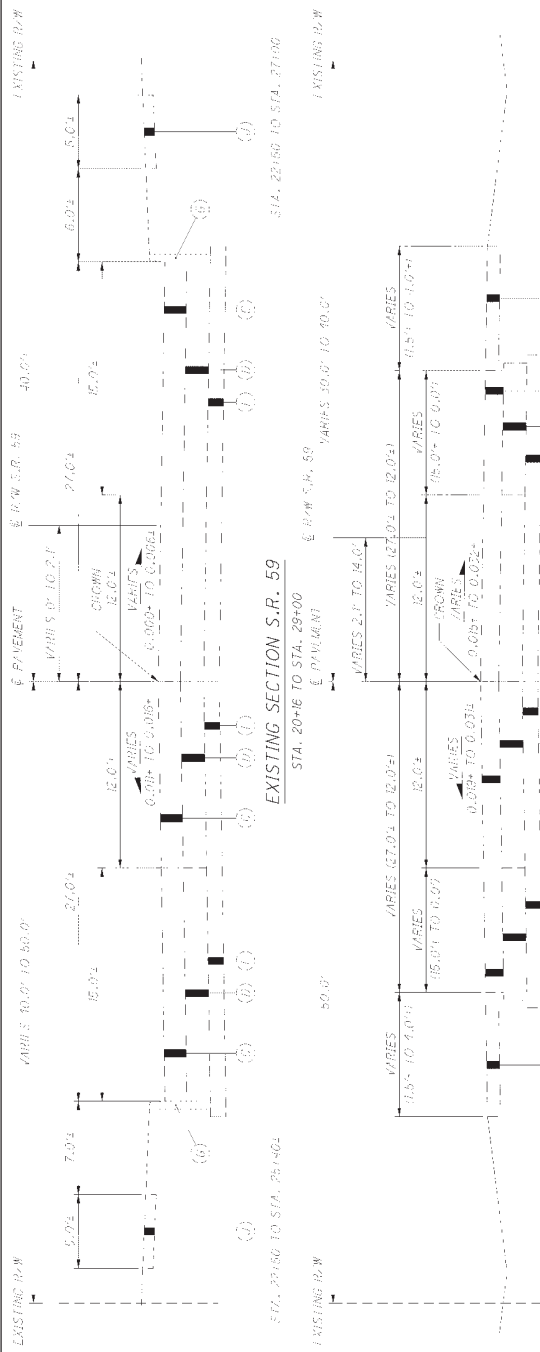
CURRENT ADT (2014)	15,570
DESIGN YEAR ADT (2034)	18,900
DESIGN HOURLY VOLUME (2014)	1,710
DIRECTIONAL DISTRIBUTION	0.64
TRUCKS (% HOUR P&C)	12%
DESIGN SPEED	45 MPH
LEGAL SPEED	45 MPH
DESIGN FUNCTIONAL CLASSIFICATION	URBAN F

S.R. 14
SOUTH OF S.R. 59

CURRENT ADT (2014)	17,260
DESIGN YEAR ADT (2034)	20,230
DESIGN HOURLY VOLUME (2014)	1,830
DIPECTIONAL DISTRIBUTION	0.67
TRUCKS (24 HOUR BDC)	1%
DESIGN SPEED	45 MPH
LEGAL SPEED	45 MPH
DESIGN FUNCTIONAL CLASSIFICATION	URBAN F

- (2) 4"-5" ASPHALT CONCRETE
- (3) 4" 92 ASPHALT CONCR II
- (4) 4"-10" ASPHALT CONCRETE
- (5) 8" CONCR II BASE
- (6) VARIABLE THICKNESS SUBGRADE
- (7) 4" FFA UNDERLAY
- (8) CONCRETE CURB
- (9) CONCR II CURB AND GUTTER
- (10) CONCRETE SIDEWALK
- POL - PROFILE GRADE LINE





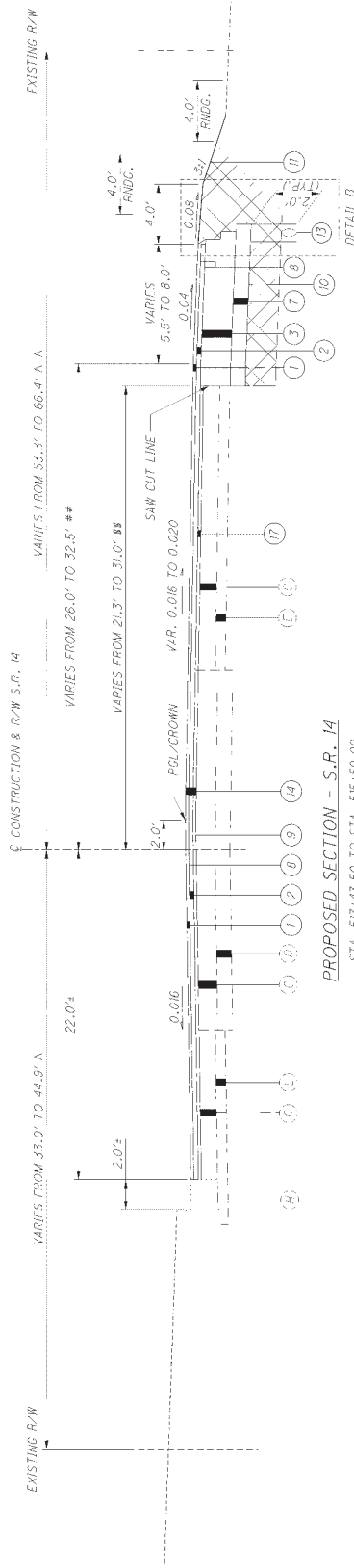
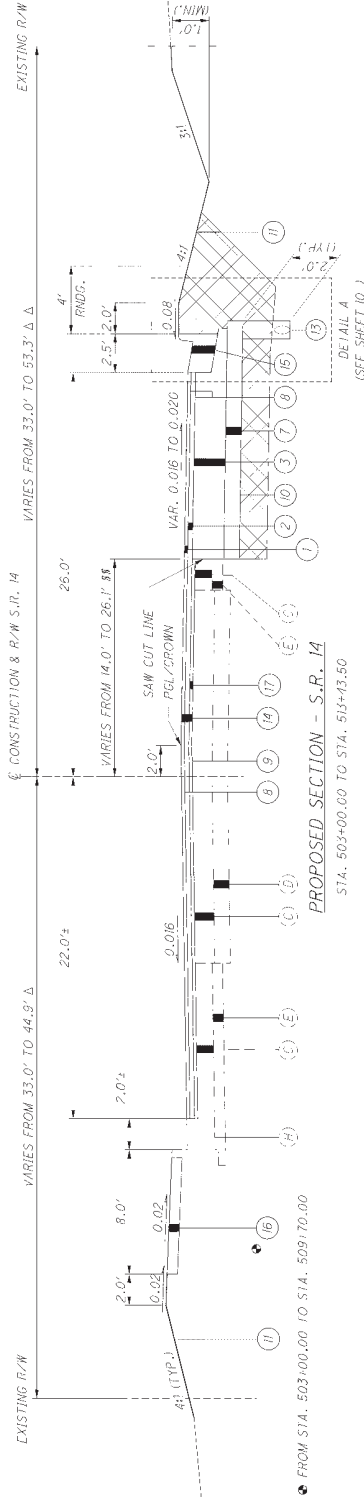
EXISTING LEGEND
SEE SHEET 7.

TYPICAL SECTIONS

POR-14-12.55



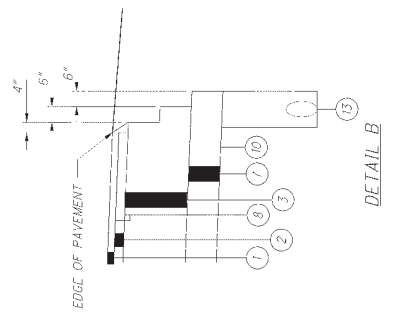
SR 14 SUBGRADE STABILIZATION DETAIL



STATION LIMITS	RIGHT-OF-WAY	
	BEGIN	END
503+00.00 - 504+47.16	33.0'	33.0'
504+47.16 - 505+78.49	33.0'	45.0'
505+78.49 - 511+75.00	45.0'	50.3'
511+75.00 - 515+43.11	50.3'	60.0'
515+43.11 - 515+50.00	60.0'	66.0'

STATION LIMITS	PAVEMENT WIDTH	
	BEGIN	END
511+75.00 - 512+00.00	26.0'	26.0'
512+00.00 - 515+50.00	26.0'	32.5'±

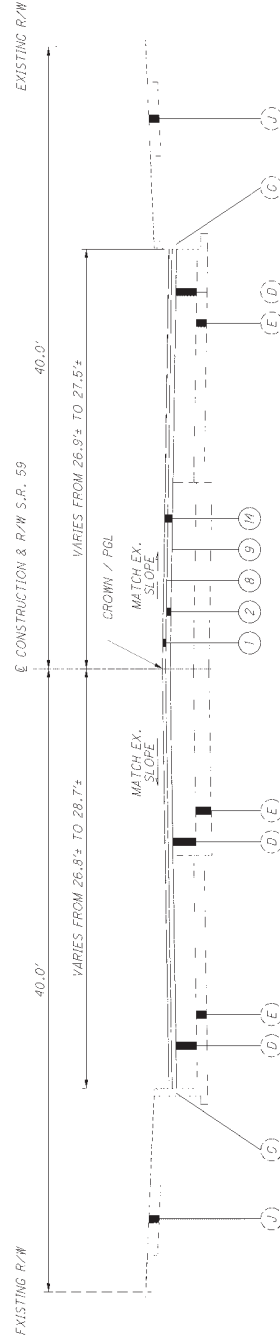
STATION LIMITS	SAW CUT LINE	
	BEGIN	END
503+00.00 - 503+50.00	14.0'	14.0'
503+50.00 - 504+00.00	14.0'	17.0'
504+00.00 - 510+00.00	17.0'	17.0'
510+00.00 - 512+75.00	17.0'	26.0'
512+75.00 - 515+50.00	26.0'	31.0'



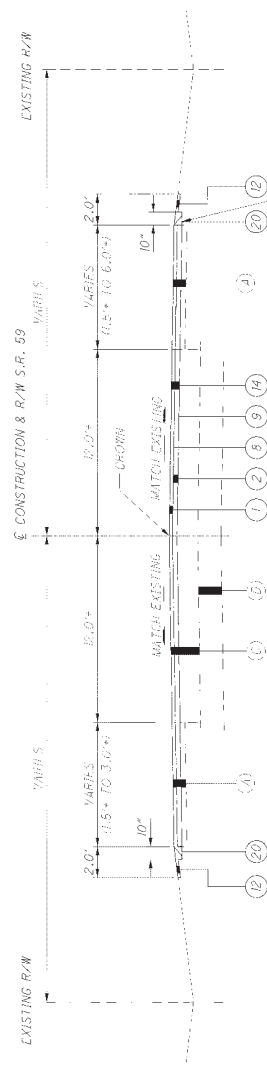
SEE SHEET 10 FOR PROPOSED LEGEND
SEE SHEET 7 FOR EXISTING LEGEND
SEE SHEET 87 FOR PAVEMENT ELEVATION TABLE
SEE SHEET 10 FOR SUBGRADE STABILIZATION DETAILS



* 24" STA. 300+00 TO 301+50
NO IRCLAMINI STA. 301+50 TO 304+50
21" 304+50 TO STA. 301+00
** DO NOT PLACE STA. 301+50 TO 307+00



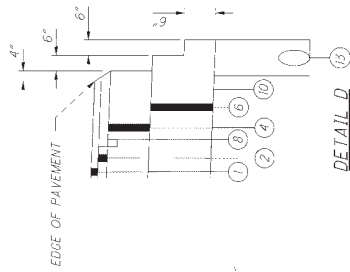
STA. 20+16.00 TO STA. 26+78.33



STA. 51+25 TO STA. 65+30

SAFETY EDGE PER SHEET IS

SEE SHEET 10 FOR PROPOSED LEGEND
SEE SHEET 7 FOR EXISTING LEGEND



DETAIL D

STATION LIMITS	SHOULDER WIDTH	STATION LIMITS	SHOULDER WIDTH
BEGIN	BEGIN	BEGIN	BEGIN
END	END	END	END
202+00.00 - 207+53.00	10.0'	202+00.00 - 207+53.00	10.0'
207+53.00 - 207+76.00	8.0'	207+53.00 - 207+76.00	8.0'
207+76.00 - 224+00.00	8.0'	207+76.00 - 224+00.00	8.0'
224+00.00 - 51+25.00	7.7'	224+00.00 - 51+25.00	7.7'

STATION LIMITS	OFFSET	STATION LIMITS	OFFSET
BEGIN	BEGIN	BEGIN	BEGIN
END	END	END	END
200+00.00 - 204+00.00	0.0'	200+00.00 - 204+00.00	0.0'
204+00.00 - 206+50.00	0.0'	204+00.00 - 206+50.00	0.0'
206+50.00 - 218+00.00	17.0'	206+50.00 - 218+00.00	17.0'
218+00.00 - 224+00.00	0.0'	218+00.00 - 224+00.00	0.0'
224+00.00 - 51+25.00	0.0'	224+00.00 - 51+25.00	0.0'

S.R. 59 WIDENING SECTION

STA. 200+00 TO STA. 206+50
STA. 218+00 TO STA. 51+25
SEE DETAIL A SUT. 10 FOR CURB AND GUTTER SECTION STA. 200+00 LT. TO STA. 204+25 LT.
* 5.0' IN AREAS WITH GUARDRAIL

STATION LIMITS	SHOULDER WIDTH	STATION LIMITS	SHOULDER WIDTH
BEGIN	BEGIN	BEGIN	BEGIN
END	END	END	END
201+00.00 - 204+25.00	2.0'	201+00.00 - 204+25.00	2.0'
204+25.00 - 204+50.00	8.0'	204+25.00 - 204+50.00	8.0'
204+50.00 - 224+00.00	8.0'	204+50.00 - 224+00.00	8.0'
224+00.00 - 51+25.00	9.4'	224+00.00 - 51+25.00	9.4'

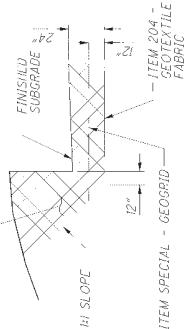
STATION LIMITS	SHOULDER WIDTH	STATION LIMITS	SHOULDER WIDTH
BEGIN	BEGIN	BEGIN	BEGIN
END	END	END	END
200+63.77 - 206+50.00	22.0' LT.	200+63.77 - 206+50.00	22.0' LT.
206+50.00 - 217+50.00	3.0' RT.	206+50.00 - 217+50.00	3.0' RT.
217+50.00 - 222+00.00	3.0' RT.	217+50.00 - 222+00.00	3.0' RT.
222+00.00 - 51+25.00	9.0' LT.	222+00.00 - 51+25.00	9.0' LT.

STATION LIMITS	PAVEMENT WIDTH	STATION LIMITS	PAVEMENT WIDTH
BEGIN	BEGIN	BEGIN	BEGIN
END	END	END	END
200+00.00 - 205+75.00	24.0'	200+00.00 - 205+75.00	24.0'
205+75.00 - 206+50.00	22.7'	205+75.00 - 206+50.00	22.7'
206+50.00 - 218+10.00	16.1'	206+50.00 - 218+10.00	16.1'
218+10.00 - 224+00.00	12.0'	218+10.00 - 224+00.00	12.0'
224+00.00 - 51+25.00	11.3'	224+00.00 - 51+25.00	11.3'

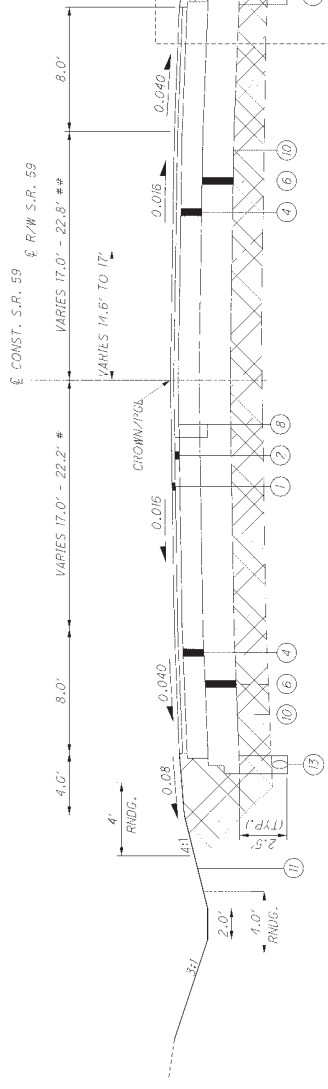
STATION LIMITS	PAVEMENT WIDTH	STATION LIMITS	PAVEMENT WIDTH
BEGIN	BEGIN	BEGIN	BEGIN
END	END	END	END
201+00.00 - 205+25.00	24.0'	201+00.00 - 205+25.00	24.0'
205+25.00 - 206+50.00	24.0'	205+25.00 - 206+50.00	24.0'
206+50.00 - 218+10.00	17.0'	206+50.00 - 218+10.00	17.0'
218+10.00 - 219+00.00	16.1'	218+10.00 - 219+00.00	16.1'
219+00.00 - 221+65.00	18.0' RT.	219+00.00 - 221+65.00	18.0' RT.
221+65.00 - 51+25.00	10.0' RT.	221+65.00 - 51+25.00	10.0' RT.

STATION LIMITS	SAWCUT	STATION LIMITS	SAWCUT
BEGIN	BEGIN	BEGIN	BEGIN
END	END	END	END
201+00.00 - 204+00.00	22.0' RT.	201+00.00 - 204+00.00	22.0' RT.
204+00.00 - 205+50.00	20.0' RT.	204+00.00 - 205+50.00	20.0' RT.
205+50.00 - 206+50.00	16.1' RT.	205+50.00 - 206+50.00	16.1' RT.
206+50.00 - 219+00.00	18.0' RT.	206+50.00 - 219+00.00	18.0' RT.
219+00.00 - 221+65.00	10.0' RT.	219+00.00 - 221+65.00	10.0' RT.

ITEM 204 - EXCAVATION OF SUBGRADE GRANULAR MATERIAL, TYPE B



SR 59 SUBGRADE STABILIZATION DETAIL



S.R. 59 FULL DEPTH SECTION

STA. 206+50 TO STA. 218+00

STATION LIMITS	PAVEMENT WIDTH	STATION LIMITS	PAVEMENT WIDTH
BEGIN	BEGIN	BEGIN	BEGIN
END	END	END	END
206+50.00 - 208+35.00	22.2'	206+50.00 - 208+35.00	22.2'
208+35.00 - 215+00.00	18.0'	208+35.00 - 215+00.00	18.0'
215+00.00 - 216+00.00	18.0'	215+00.00 - 216+00.00	18.0'
216+00.00 - 218+00.00	11.0'	216+00.00 - 218+00.00	11.0'

STATION LIMITS	PAVEMENT WIDTH	STATION LIMITS	PAVEMENT WIDTH
BEGIN	BEGIN	BEGIN	BEGIN
END	END	END	END
206+50.00 - 209+45.00	22.8'	206+50.00 - 209+45.00	22.8'
209+45.00 - 215+00.00	18.0'	209+45.00 - 215+00.00	18.0'
215+00.00 - 216+00.00	18.0'	215+00.00 - 216+00.00	18.0'
216+00.00 - 218+00.00	11.0'	216+00.00 - 218+00.00	11.0'

STATION LIMITS	OFFSET	STATION LIMITS	OFFSET
BEGIN	BEGIN	BEGIN	BEGIN
END	END	END	END
200+00.00 - 208+82.79	14.6'	200+00.00 - 208+82.79	14.6'
208+82.79 - 211+00.00	17.0'	208+82.79 - 211+00.00	17.0'
211+00.00 - 218+00.00	17.0'	211+00.00 - 218+00.00	17.0'

SEE SHEET 10 FOR PROPOSED LFEWD
SEE SHEET 11 FOR EXISTING LFEWD

CURBED SHOULDER DETAIL
STA. 202+36 TO STA. 207+53 RT.

SEE SHEET 13 FOR PAVEMENT EDGE COURSE DETAIL D (APPLIES TO ALL SECTIONS ON THIS SHEET)
SEE SHEET 10 FOR PROPOSED LEGEND
SEE SHEET 7 FOR EXISTING LEGEND

ITEM 209, PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN.

PREPARE THE SHOULDER FOR PAVING A CONSISTENT SAFETY EDGE IN BOTH THICKNESS AND WIDTH.

PRIOR TO PAVING THE SAFETY EDGE, GRADE AN AREA 10 INCHES WIDE, BEGINNING AT THE EDGE OF THE PAVED ROADWAY, TO PROVIDE A LEVEL SURFACE FOR OR VEGETATION FOR CONSTRUCTION OF THE SAFETY EDGE. IF NECESSARY, EXCAVATE THE GRADED AREA TO THE DEPTH NECESSARY TO CONSTRUCT THE SAFETY EDGE. COMPACT THE GRADED SHOULDER ACCORDING TO 617.05, OR AS DIRECTED BY THE ENGINEER.

NOTES:

1.) SAFETY EDGES ARE REQUIRED AT THE OUTSIDE EDGES OF THE PAVED ROADWAY (EDGE OF TRAVEL LANE OR EDGE OF PAVED SHOULDER).

2.) CONSTRUCT THE SAFETY EDGE THE FULL ASPHALT CONCRETE OVERLAY THICKNESS OR 2.5" WHICHEVER IS GREATER, NOT TO EXCEED THE MAXIMUM SAFETY EDGE THICKNESS OF 6". CONSTRUCT A NEAR-VERTICAL FACE BELOW THE SAFETY EDGE FOR THICKNESS GREATER THAN 6".

3.) GLADE AND SHAPE EXISTING SHOULDER MATERIAL TO FORM A UNIFORM SURFACE UNDER THE SAFETY EDGE PRIOR TO PLACEMENT OF THE ASPHALT CONCRETE OVERLAY.

★ 40" MAX

SAFETY EDGE (ASPHALT CONCRETE)

IN ADDITION TO THE REQUIREMENTS OF 401.12, ATTACH A DEVICE TO THE SCHED OF THE PAYER THAT CONTAINS THE MATERIAL AT THE END GATE AND EXTENDS THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A COMPACTED WEDGE SHAFT PAYMENT EDGE OF APPROXIMATELY 30 DEGREES (NOT SLOPPER THAN 40 DEGREES). ENSURE THE DEVICE MAINTAINS CONTACT WITH THE EXISTING SURFACE, AND ALLOW FOR AUTOMATIC TRANSITION TO CROSS ROADS, DRIVEWAYS AND OBSTRUCTIONS. DO NOT USE CONVENTIONAL SINGLE PLATT STRIKE OFF.

CONSTRUCTION OF SAFETY EDGE CAN BE OMITTED AT LOCATIONS WHERE EXISTING WIDTH OF GRADED SHOULDER OR BROW IS LESS THAN 12". PROJECTS WITH VARYING CONDITIONS SHOULD USE SAFETY EDGE WHERE POSSIBLE. PLAN PREPARATION HAS MADE EVERY REASONABLE ATTEMPT TO IDENTIFY POSSIBLE SAFETY EDGE LOCATIONS.

USE THE TRANSITECH SHOULDER WEDGE MAKER, THE CARLSON SAFETY EDGE FND GATE, THE ADVANT-EDGE, THE TROXLER SAFETY SLOPE OR A SIMILAR APPROVED-EQUAL DEVICE THAT PRODUCES THE SAME WEDGE CONSOLIDATION RESULTS. CONTACT INFORMATION FOR THESE WEDGE SHAFT COMPACTION DEVICES IS THE FOLLOWING:

TRANSTECH SYSTEMS, INC.
1594 STATE STREET
SCHENECTADY, NY 12304
1-800-724-6306
WWW.TRANSTECHSYS.COM

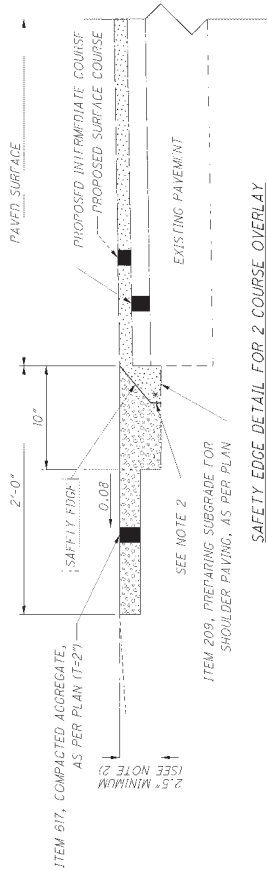
ADVANT-EDGE PAVING EQUIPMENT LLC
P.O. BOX 9163
NISKAYUNA, NY 12309-0163
518-280-6030
WWW.ADVANTALDEGEPAVING.COM

CARLSON SAFETY EDGE FND GATE
18425 50TH AVENUE EAST
TACOMA, WA 98146
253-815-8000

TROXLER ELECTRONIC LABORATORIES, INC.
3008 E. CORNWALLIS RD.
RESEARCH TRIANGLE PARK, NC 27709
1-877-TROXLER
WWW.TROXLERLABS.COM

IF ELECTING TO USE A SIMILAR DEVICE, PROVIDE PROOF THAT THE DEVICE HAS BEEN USED ON PREVIOUS PROJECTS WITH ACCEPTABLE RESULTS OR CONSTRUCT A TEST SECTION PRIOR TO THE BEGINNING OF WORK AND DEMONSTRATE WEDGE COMPACTION TO THE SATISFACTION OF THE ENGINEER. SHORT SECTIONS OF HANDWORK WILL BE ALLOWED WHEN NECESSARY FOR TRANSITIONS AND TURNOUTS OR OTHERWISE AUTHORIZED BY THE ENGINEER.

IN ADDITION TO THE REQUIREMENTS OF 401.16, MAKE THE FIRST ROLLER PASS 8 TO 12 INCHES AWAY FROM TAPERED EDGE. DO NOT ROLL THE TAPER.



ITEM 209, PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN

SAFETY EDGE DETAIL FOR 2 COURSE OVERLAY

