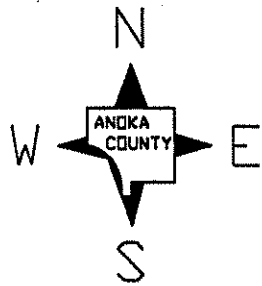


ANOKA COUNTY HIGHWAY DEPARTMENT



CONSTRUCTION PLAN FOR: BITUMINOUS OVERLAY,  
RT. TURN/BY-PASS LANE CONSTRUCTION

COUNTY ROAD NO. C.S.A.H. 116

From: 1120' EAST OF C.S.A.H. NO. 78 (HANSON BLVD.)

To: 1400' WEST OF T.H. NO. 65

From: \_\_\_\_\_

To: \_\_\_\_\_

COUNTY PROJECT NO. 99-08-116

GROSS LENGTH 16600.00 FEET 3.144 MILES

BRIDGES LENGTH 0.00 FEET 0.000 MILES

EXCEPTIONS LENGTH 0.00 FEET 0.000 MILES

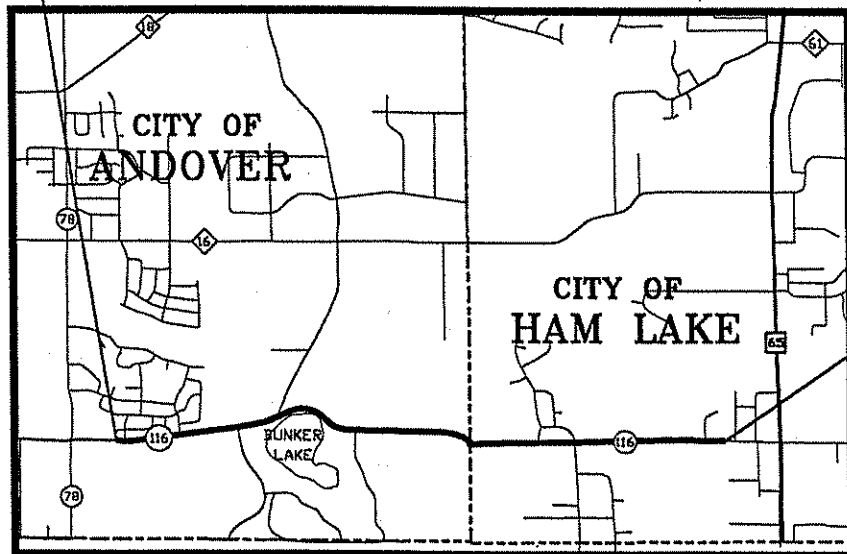
NET LENGTH 16600.00 FEET 3.144 MILES

BEGIN C.P. 99-08-116

ADT (1998) = 11921

7 TON DESIGN

END C.P. 99-08-116



GOVERNING SPECIFICATIONS

THE 1995 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND ALL SUPPLEMENTS THERETO.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MMUTCD, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS" DATED JANUARY 1998.

ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINN.

  
ASSISTANT COUNTY ENGINEER

REG. NO. 25066 DATE: 4-23-99

APPROVED: 4/26/99

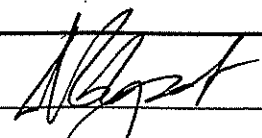
  
ANOKA COUNTY ENGINEER

## STATEMENT OF ESTIMATED QUANTITIES

ITEM NO	ITEM	UNIT	EST. QUANT.
2013.601	CELLULAR MOBILE TELEPHONE	L S	1
2021.501	MOBILIZATION	L S	1
2104.503	REMOVE BITUMINOUS PAVEMENT	SQ YD	1067
2104.513	SAWING BITUMINOUS PAVEMENT	LIN FT	9600
① 2104.523	SALVAGE SIGN TYPE C	EACH	11
② 2104.523	SALVAGE SIGN TYPE SPECIAL	EACH	2
2105.501	COMMON EXCAVATION	CU YD	(P) 1738
2105.522	SELECT GRANULAR BORROW (LV)	CU YD	2200
③ 2105.525	TOPSOIL BORROW (LV)	CU YD	200
2120.501	EARTH SHOULDERING	CU YD	1000
④ 2211.501	AGGREGATE BASE CLASS 5	TON	1070
⑤ 2232.501	MILL BITUMINOUS SURFACE	SQ YD	171
2350.604	TYPE MV 4 WEAR COURSE MIX 1 1/2" THICK	SQ YD	654
2350.609	TYPE MV 4 WEARING COURSE MIXTURE	TON	8300
2350.609	TYPE LV 3 NON WEARING COURSE MIXTURE	TON	415
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	4012
2540.602	INSTALL MAIL BOX SUPPORT	EACH	10
2563.601	TRAFFIC CONTROL	L S	1
② 2564.602	INSTALL SIGN TYPE SPECIAL	EACH	2
⑥ 2573.501	SILT FENCE TYPE PREASSEMBLED	LIN FT	2220
2575.501	SEEDING	ACRE	5.4
2575.502	SEED MIXTURE 80A	POUND	242
2575.511	MULCH MATERIAL TYPE 1	TON	3.2
2575.512	MULCH MATERIAL TYPE 2	GALLON	913
2575.519	DISC ANCHORING	ACRE	1.6
⑦ 2575.523	EROSION CONTROL BLANKET CATEGORY 2	SQ YD	480
2575.532	COMMERCIAL FERTILIZER ANALYSIS 10-10-10	POUND	2686
2580.501	TEMPORARY LANE MARKING	LIN FT	1328

- ① SALVAGE TO ANOKA COUNTY SIGN DEPARTMENT.
- ② MUNICIPAL STREET SIGNS.
- ③ FOR TOPSOIL COVERING OF SLOPES IN TURN/BY-PASS LANE CONSTR. AREAS.
- ④ 91 TONS FOR RESTORATION OF AGGREGATE ENTRANCES.
- ⑤ FOR BUTT JOINT MILLING.
- ⑥ TO BE PLACED 45+22-52+42 RT, AS DIRECTED BY THE ENGINEER.
- ⑦ TO BE PLACED 45+12-52+52 RT, 73+55-80+95 RT, 89+03-96+43 RT, AS DIRECTED BY THE ENGINEER.

CERTIFIED BY



REG. NO. 25886

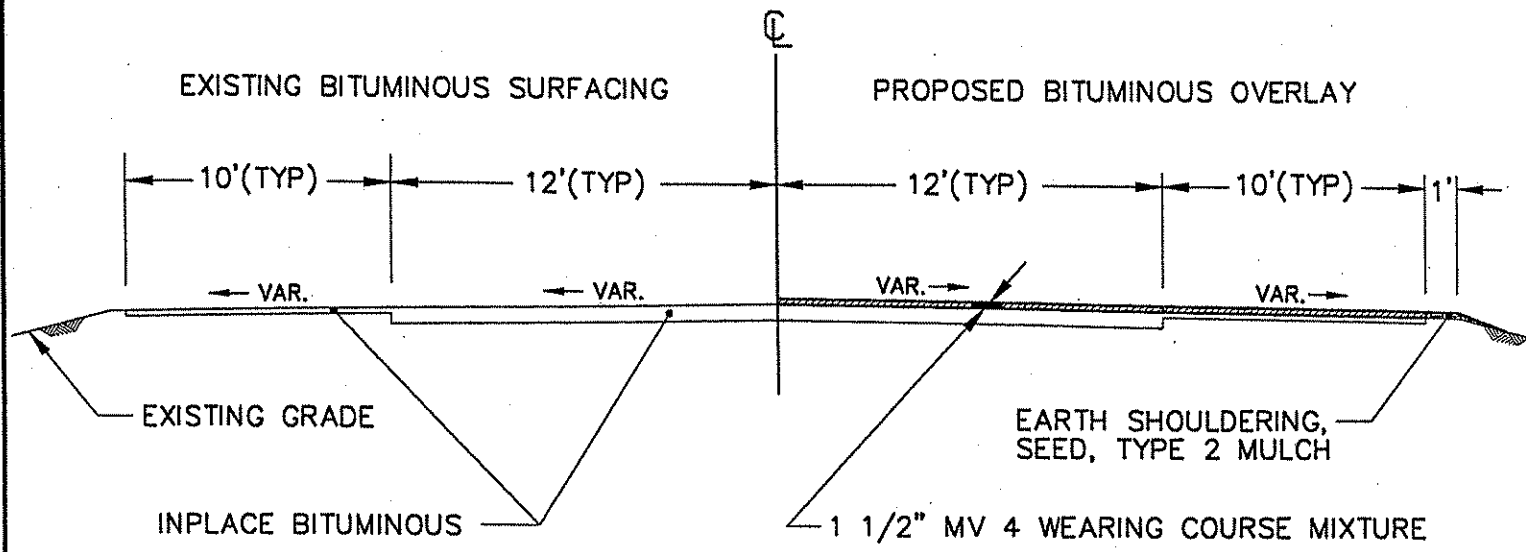
DATE 4-23-99

COUNTY PROJECT 99-08-116

SHEET 2 OF 19 SHEETS



# TYPICAL SECTIONS



NOTE: STRIP INPLACE TOPSOIL PRIOR TO PLACING EMBANKMENT MATERIAL.

## DESIGN DESIGNATIONS:

TYPE MV 4 WEARING COURSE MIXTURE: MVWE45035B  
 TYPE LV 3 NON WEARING COURSE MIXTURE: LVNW35030B

(NOT TO SCALE)

CERTIFIED BY

REG. NO. 25066

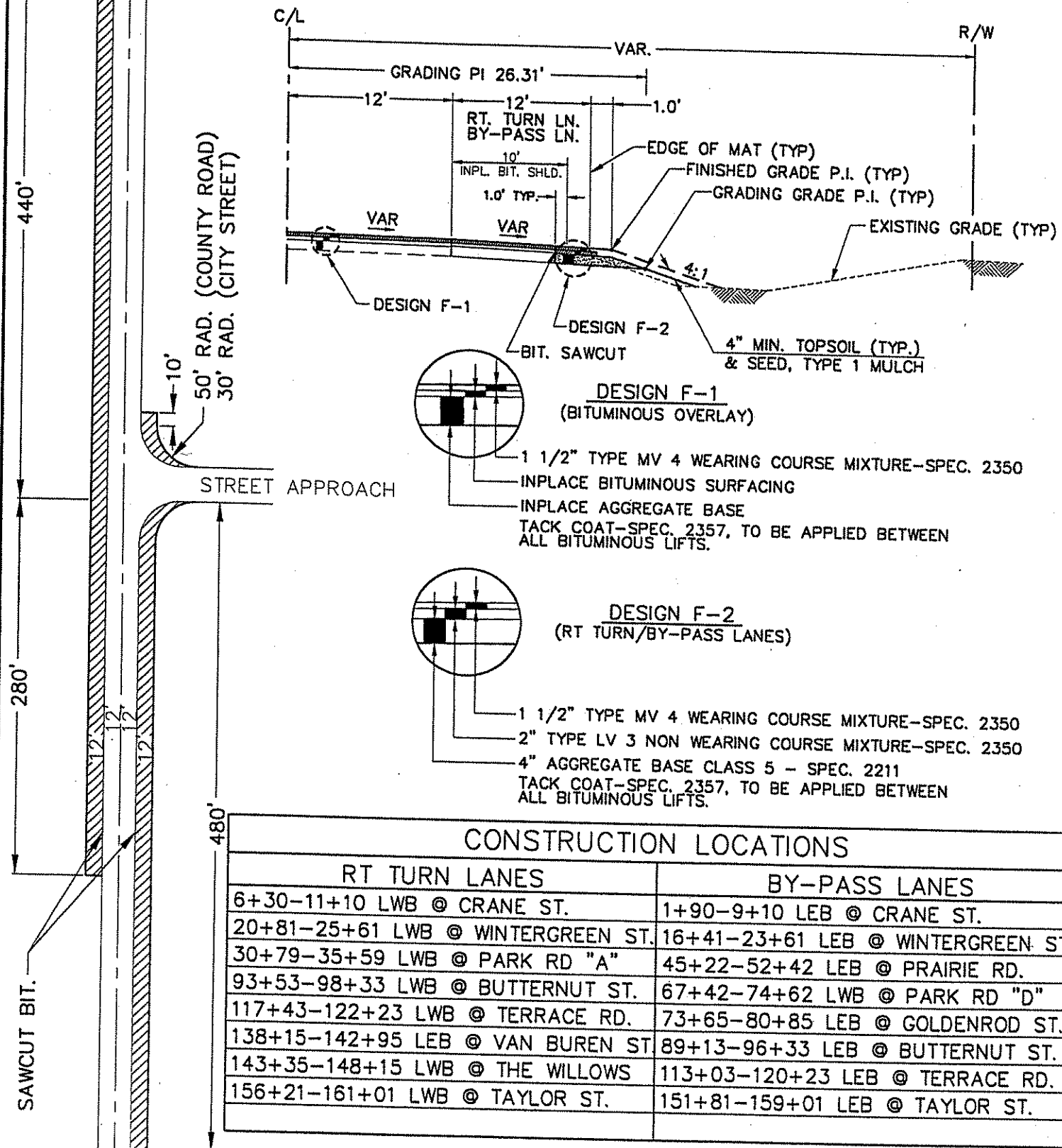
DATE 4-23-99

COUNTY PROJECT

99-08-116

SHEET 4 OF 19 SHEETS

# TYPICAL RT. TURN & BY-PASS LANE CONSTRUCTION



SAWCUT BIT.

440'  
280'  
480'

50' RAD. (COUNTY ROAD)  
30' RAD. (CITY STREET)

STREET APPROACH

**DESIGN F-1**  
(BITUMINOUS OVERLAY)

- 1 1/2" TYPE MV 4 WEARING COURSE MIXTURE--SPEC. 2350
- INPLACE BITUMINOUS SURFACING
- INPLACE AGGREGATE BASE
- TACK COAT--SPEC. 2357, TO BE APPLIED BETWEEN ALL BITUMINOUS LIFTS.

**DESIGN F-2**  
(RT TURN/BY-PASS LANES)

- 1 1/2" TYPE MV 4 WEARING COURSE MIXTURE--SPEC. 2350
- 2" TYPE LV 3 NON WEARING COURSE MIXTURE--SPEC. 2350
- 4" AGGREGATE BASE CLASS 5 - SPEC. 2211
- TACK COAT--SPEC. 2357, TO BE APPLIED BETWEEN ALL BITUMINOUS LIFTS.

CONSTRUCTION LOCATIONS	
RT TURN LANES	BY-PASS LANES
6+30-11+10 LWB @ CRANE ST.	1+90-9+10 LEB @ CRANE ST.
20+81-25+61 LWB @ WINTERGREEN ST.	16+41-23+61 LEB @ WINTERGREEN ST.
30+79-35+59 LWB @ PARK RD "A"	45+22-52+42 LEB @ PRAIRIE RD.
93+53-98+33 LWB @ BUTTERNUT ST.	67+42-74+62 LWB @ PARK RD "D"
117+43-122+23 LWB @ TERRACE RD.	73+65-80+85 LEB @ GOLDENROD ST.
138+15-142+95 LEB @ VAN BUREN ST.	89+13-96+33 LEB @ BUTTERNUT ST.
143+35-148+15 LWB @ THE WILLOWS	113+03-120+23 LEB @ TERRACE RD.
156+21-161+01 LWB @ TAYLOR ST.	151+81-159+01 LEB @ TAYLOR ST.

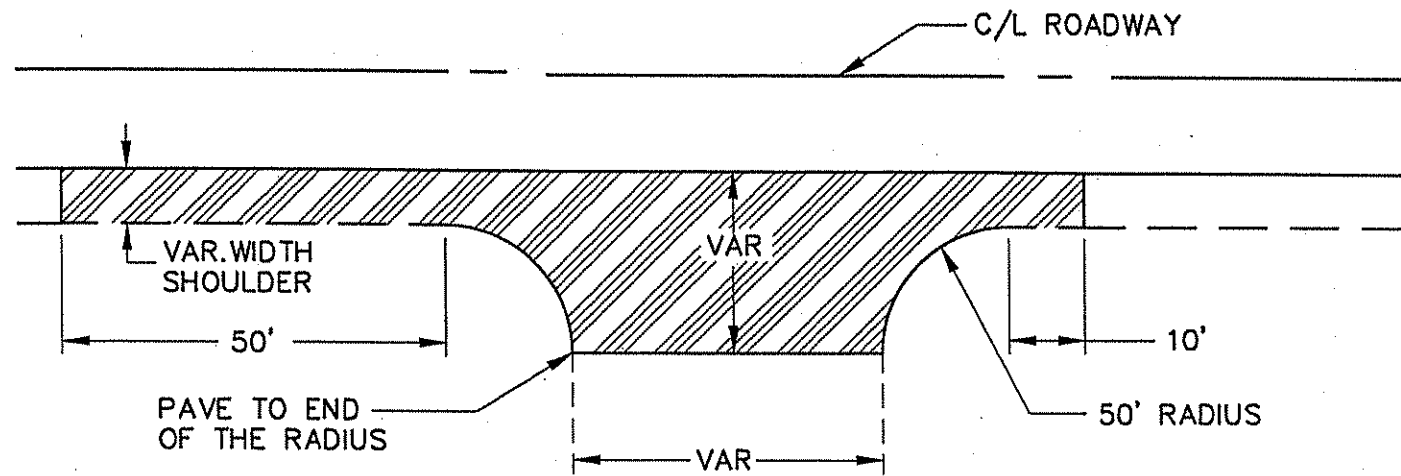
(NOT TO SCALE)

CERTIFIED BY *[Signature]* REG. NO. 25086 DATE 4-23-99

COUNTY PROJECT 00 00 11

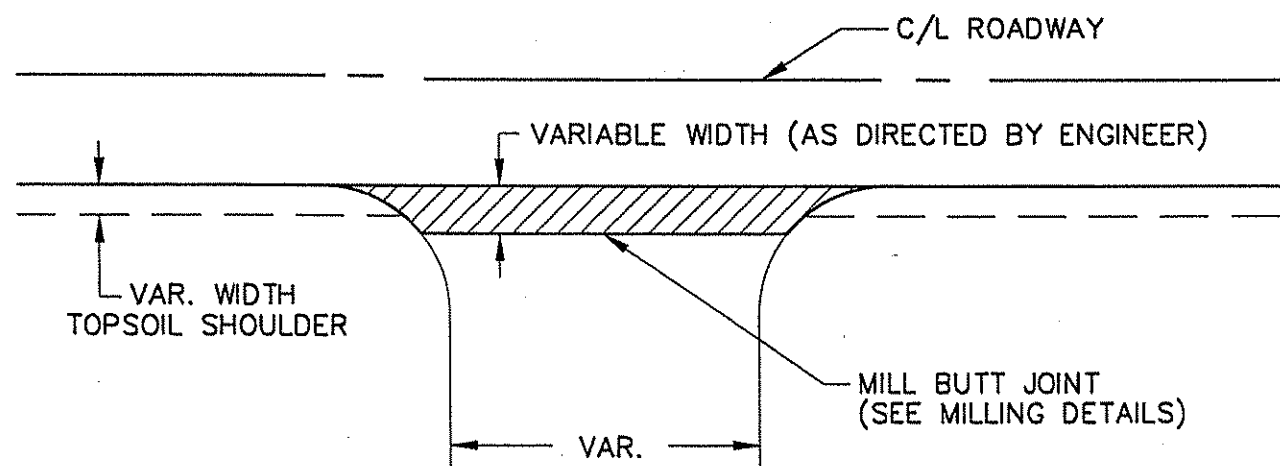
# TYPICAL STREET APPROACHES

## UNPAVED STREET APPROACHES



NOTE: PAID FOR AS ITEM NO. 2350.604  
(TYPE MV 4 WEAR COURSE 2" THICK)

## PAVED STREET APPROACHES



NOTE: KICKOUT PAID FOR AS ITEM NO. 2350.609 (TYPE MV 4 WEARING COURSE MIXTURE)/ OR  
KICKOUT PAID FOR AS ITEM NO. 2350.604 (TYPE MV 4 WEAR COURSE 1 1/2" THICK)

(NOT TO SCALE)

CERTIFIED BY

REG. NO.

25066

DATE

4-23-99

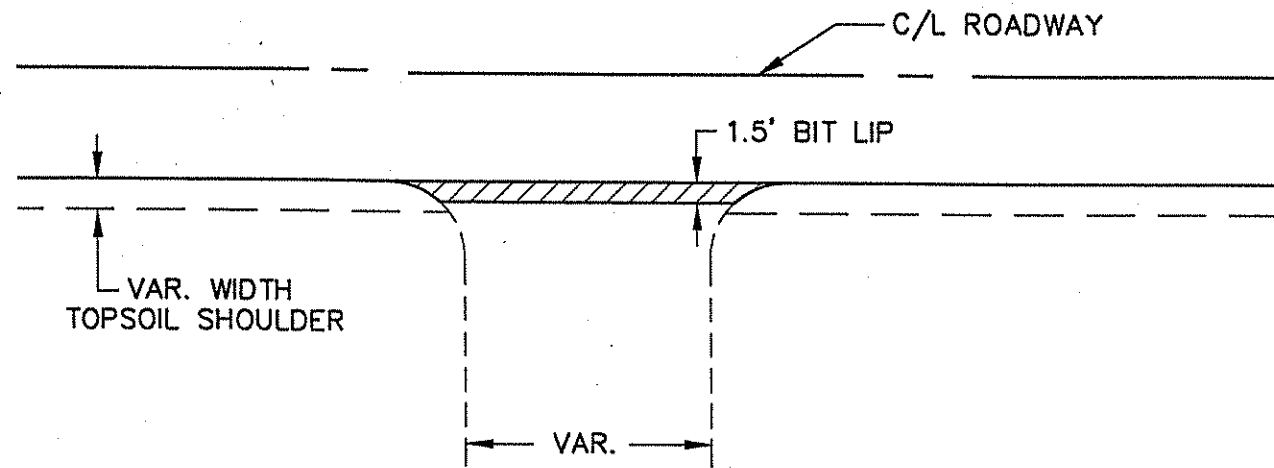
COUNTY PROJECT

99-08-116

SHEET 6 OF 19 SHEETS

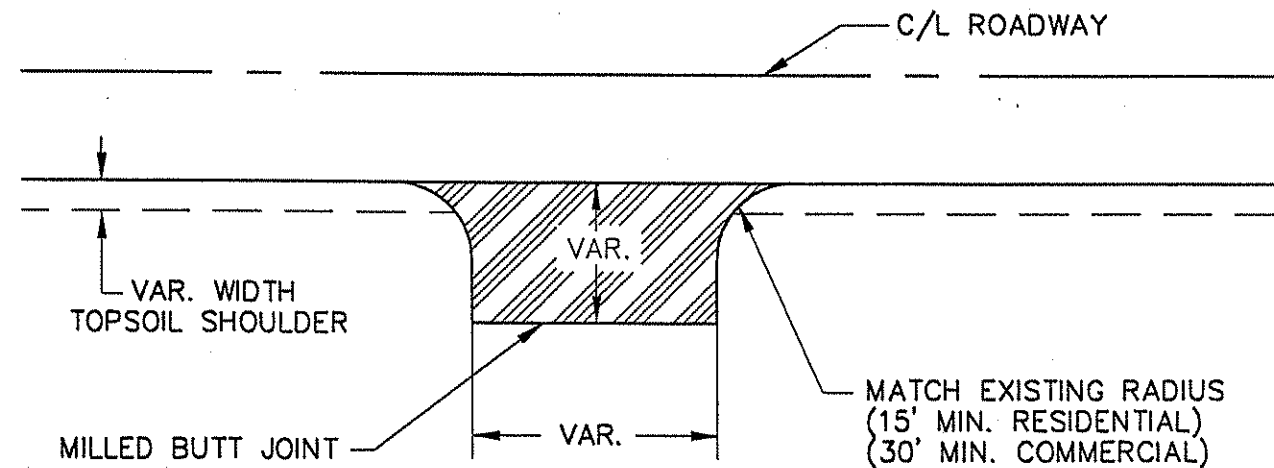
# TYPICAL ENTRANCES

## UNPAVED DRIVEWAY AND FIELD ENTRANCES



NOTE: KICKOUT PAID FOR AS ITEM NO. 2350.609  
(TYPE MV 4 WEARING COURSE MIXTURE)

## PAVED ENTRANCES



NOTE: PAID FOR AS ITEM NO. 2350.604  
(TYPE MV 4 WEAR COURSE 1 1/2" THICK)

(NOT TO SCALE)

CERTIFIED BY

REG. NO.

25DB6

DATE

4-23-99

COUNTY PROJECT

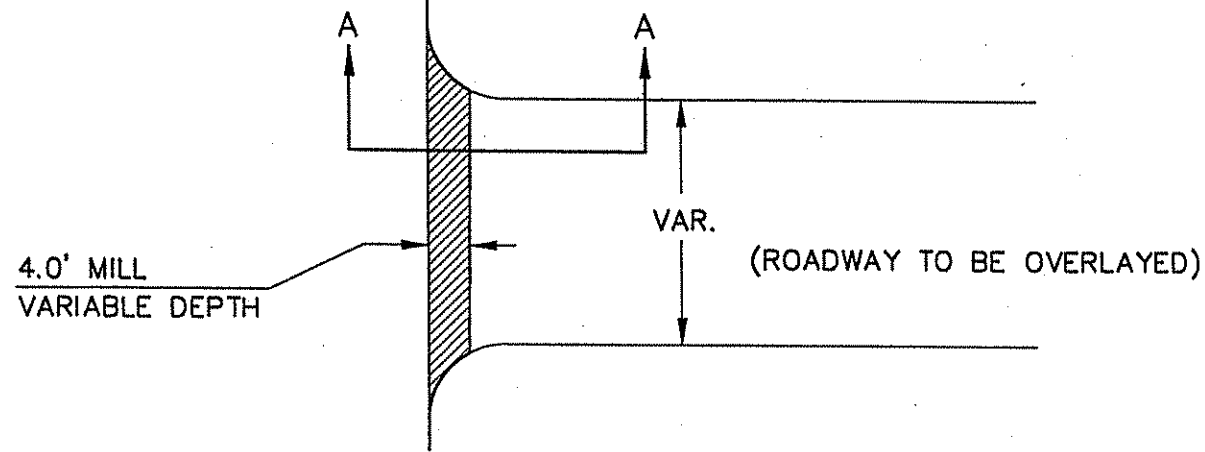
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SHEET 7 OF 19 SHEETS

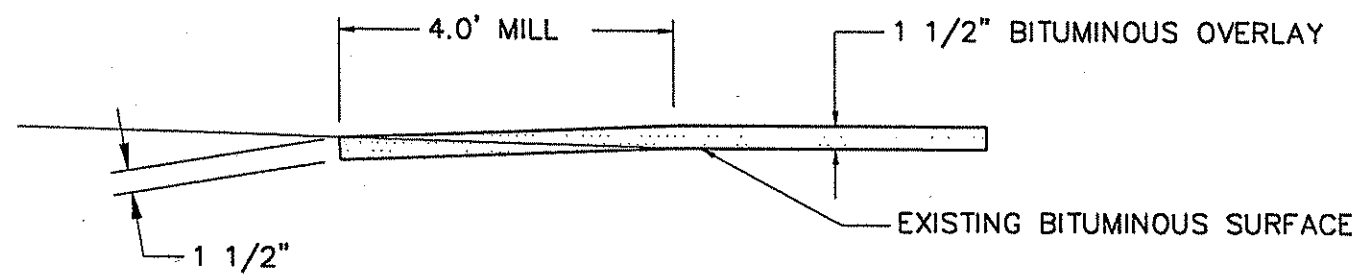
# MILLING DETAILS

## BUTT JOINTS

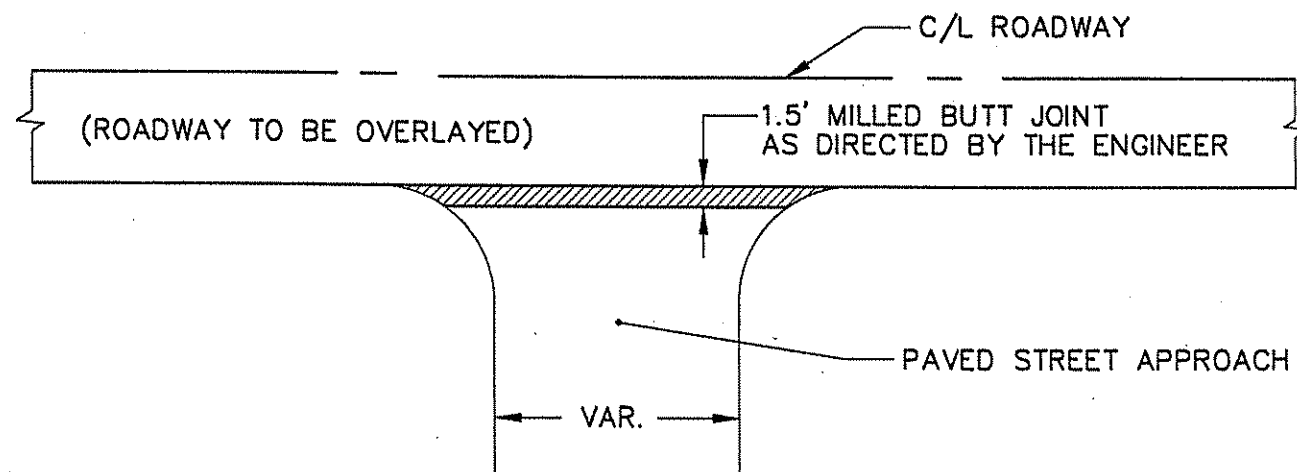
(PLAN VIEW)



(SECTION A-A)



## PAVED STREET APPR. & ENTRANCES



(NOT TO SCALE)

CERTIFIED BY

REG. NO.

29066

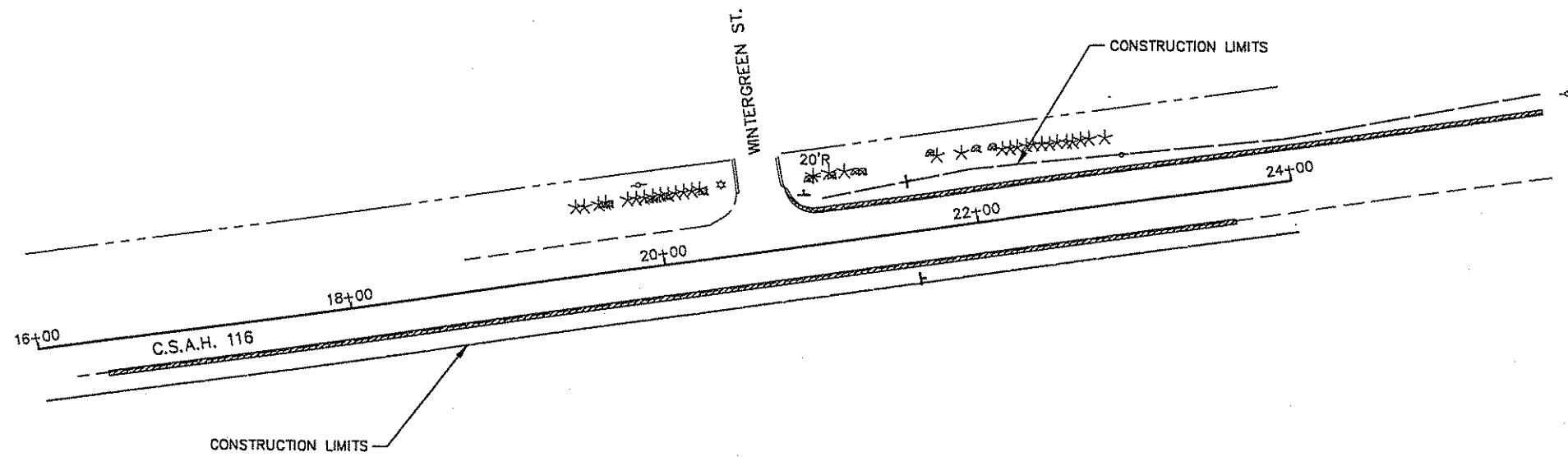
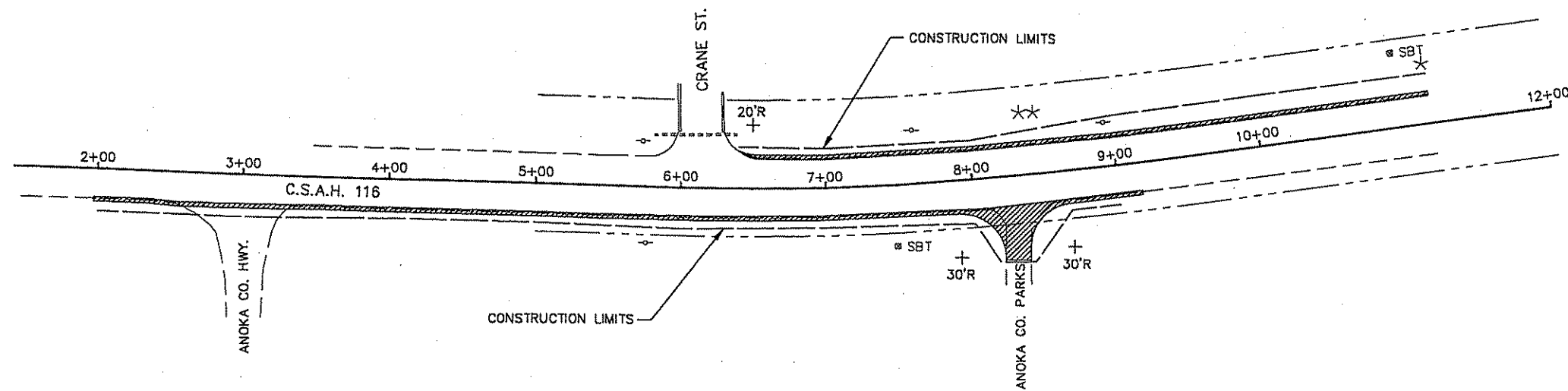
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COUNTY PROJECT



99-08-116

SHEET 8 OF 10 SHEETS

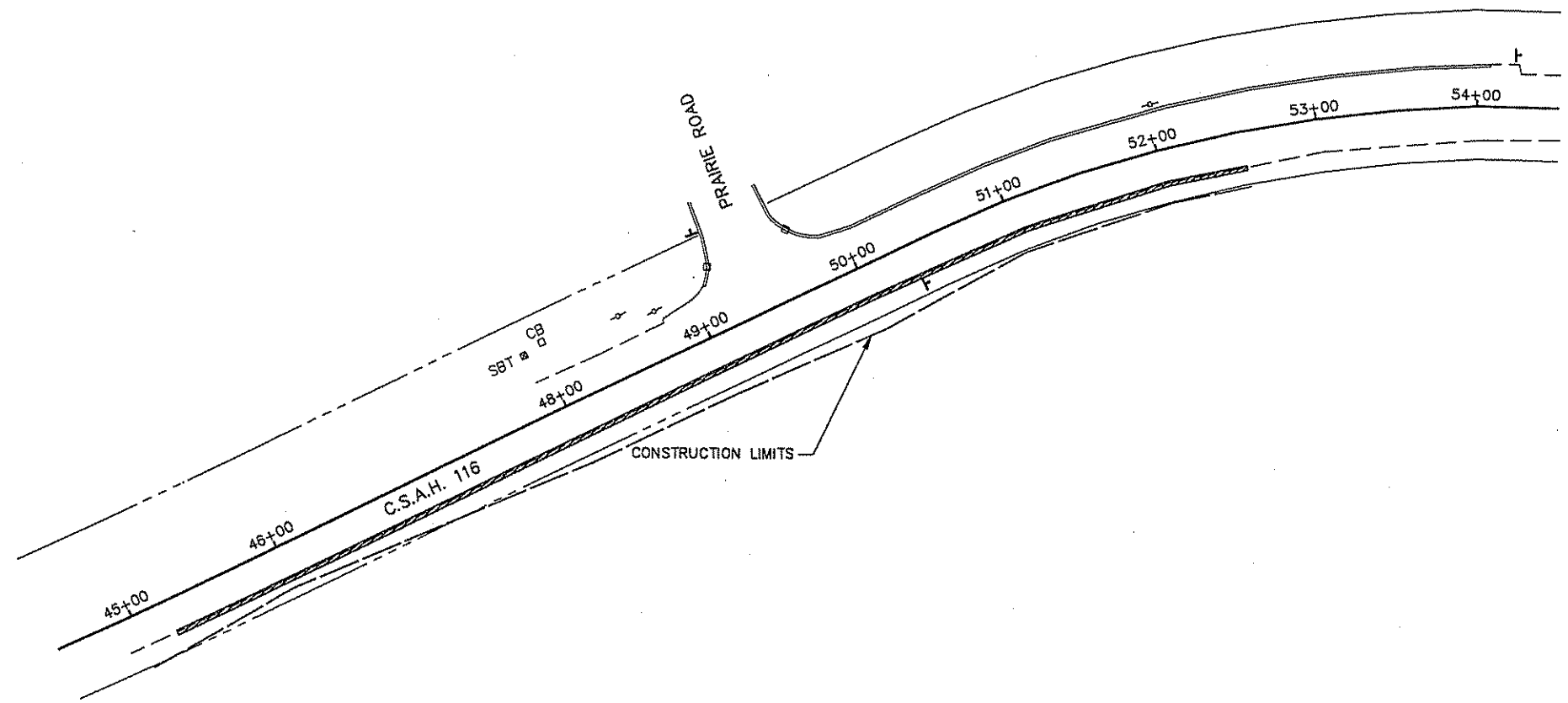
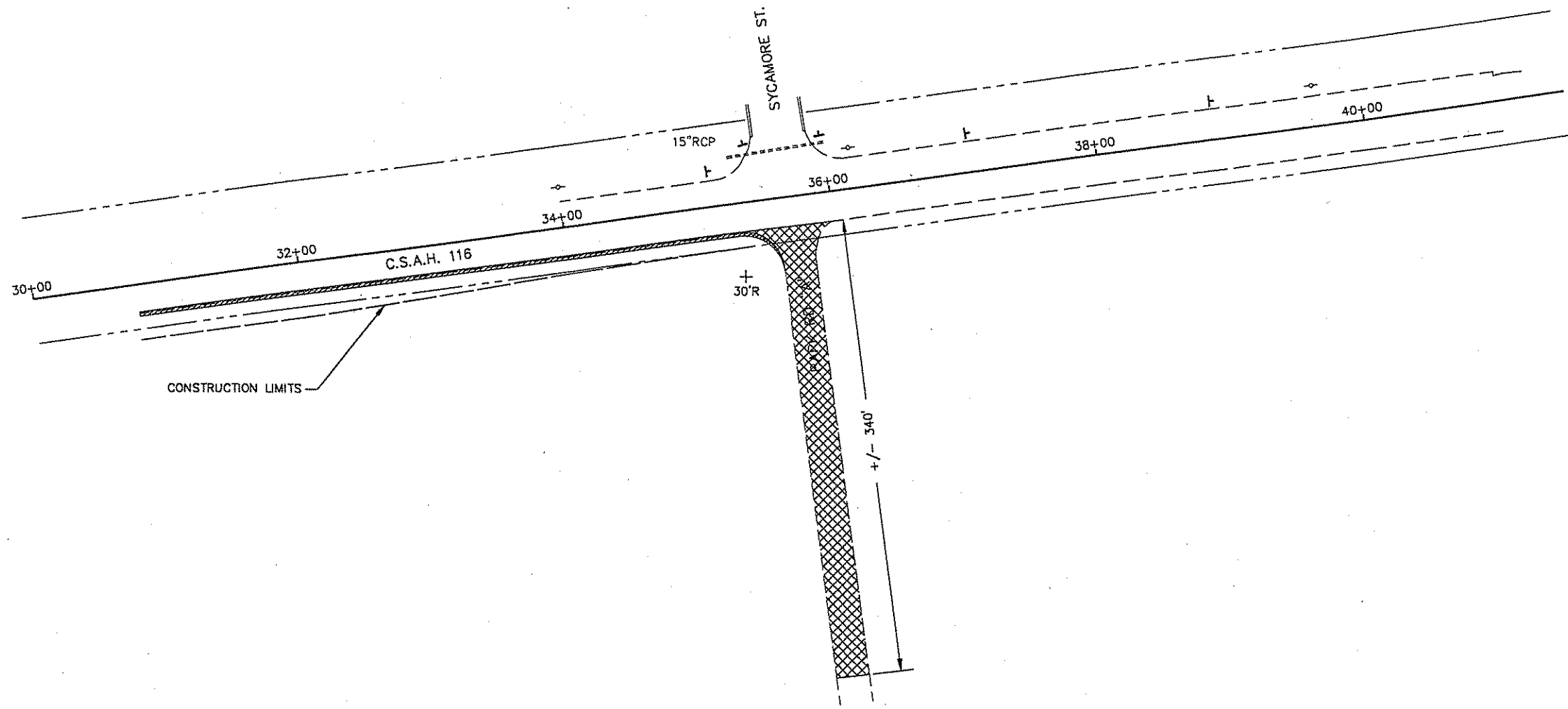






REVISIONS	DATE	BY

-  WIDENING FOR TURN/BY-PASS LANES
-  SPECIAL OVERLAY AREAS

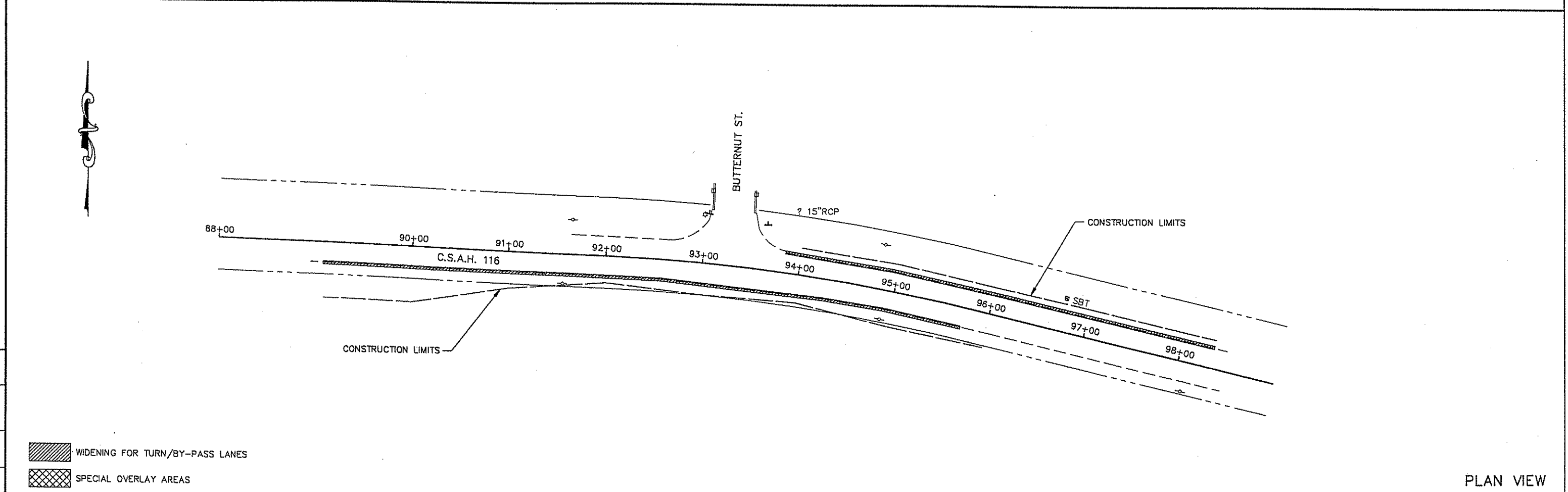
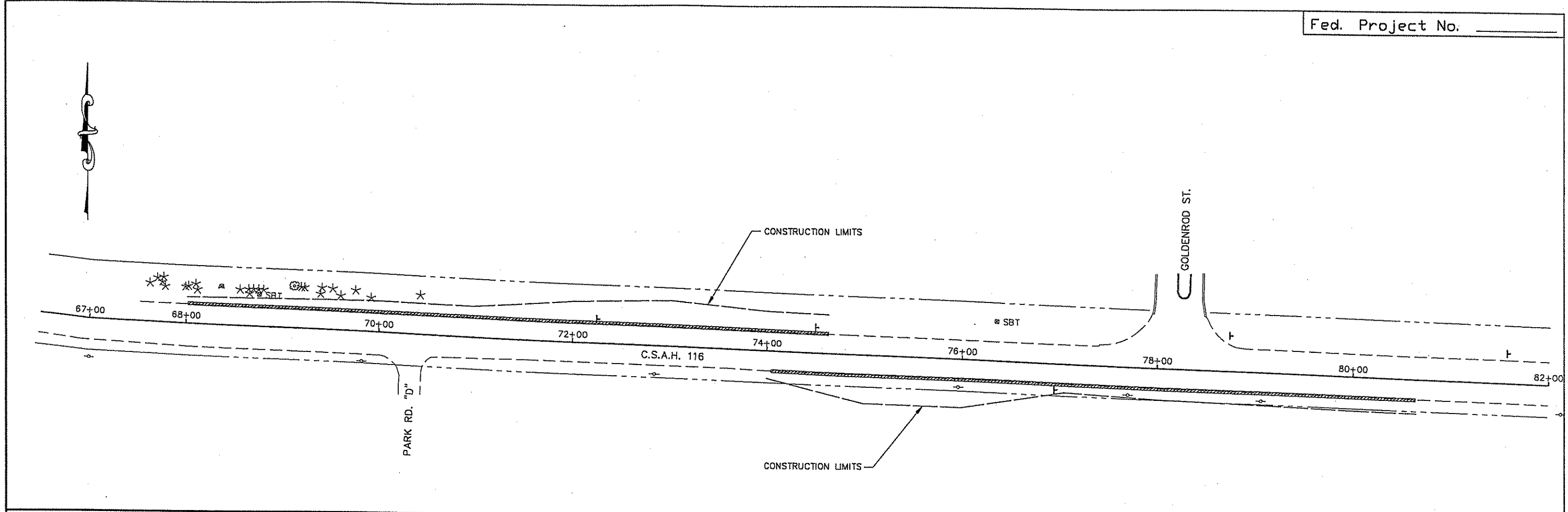
PLAN VIEW



REVISIONS	BY	DATE	BY

-  WIDENING FOR TURN/BY-PASS LANES
-  SPECIAL OVERLAY AREAS

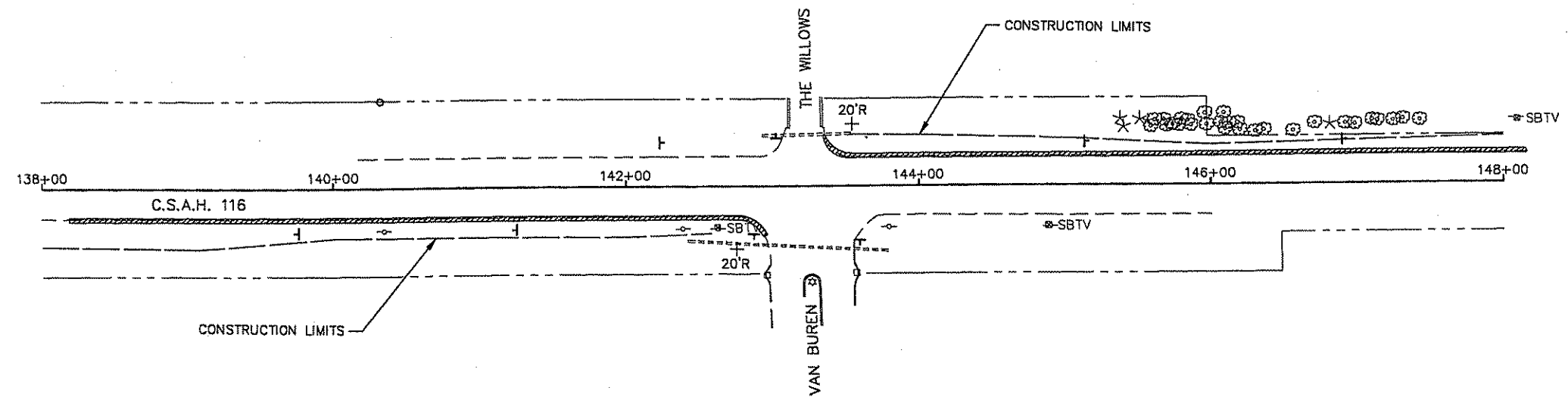
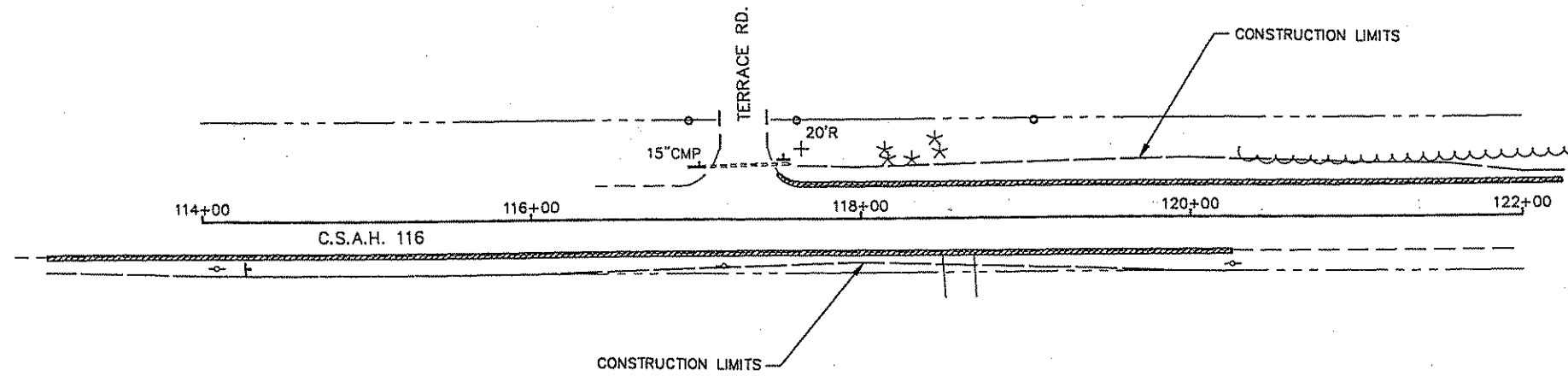
PLAN VIEW





REVISIONS	DATE	BY

- WIDENING FOR TURN/BY-PASS LANES
- SPECIAL OVERLAY AREAS

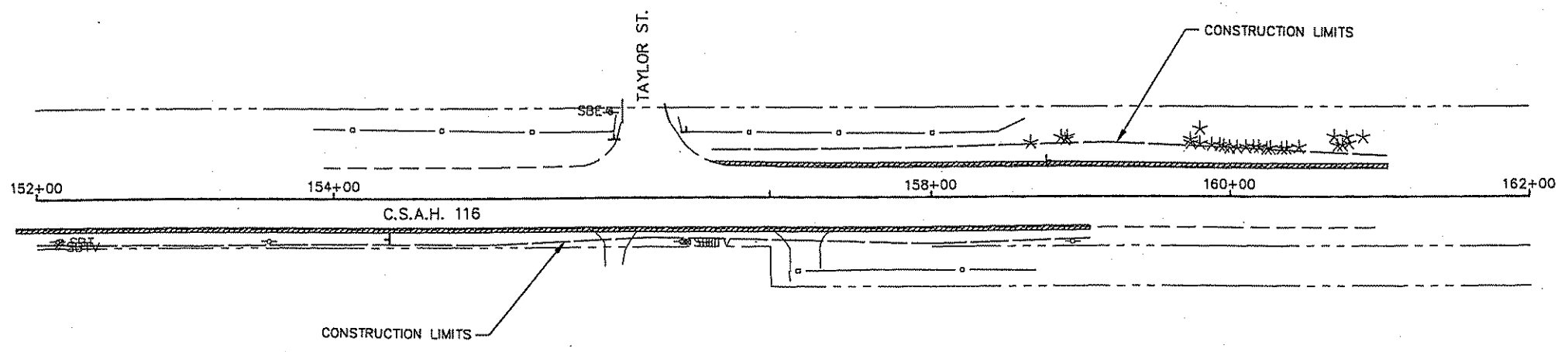
PLAN VIEW





REVISIONS	DATE	BY

-  WIDENING FOR TURN/BY-PASS LANES
-  SPECIAL OVERLAY AREAS

PLAN VIEW

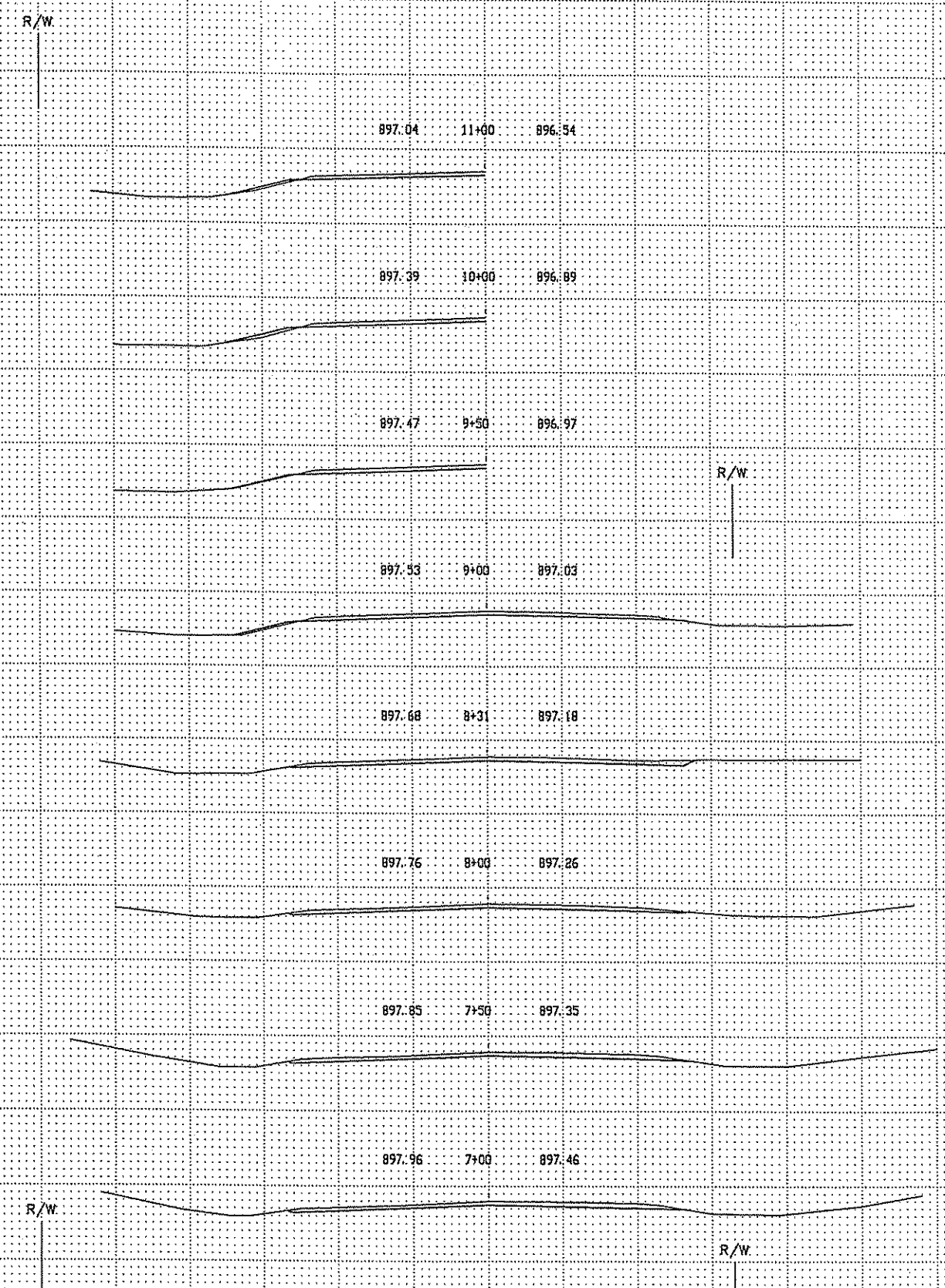
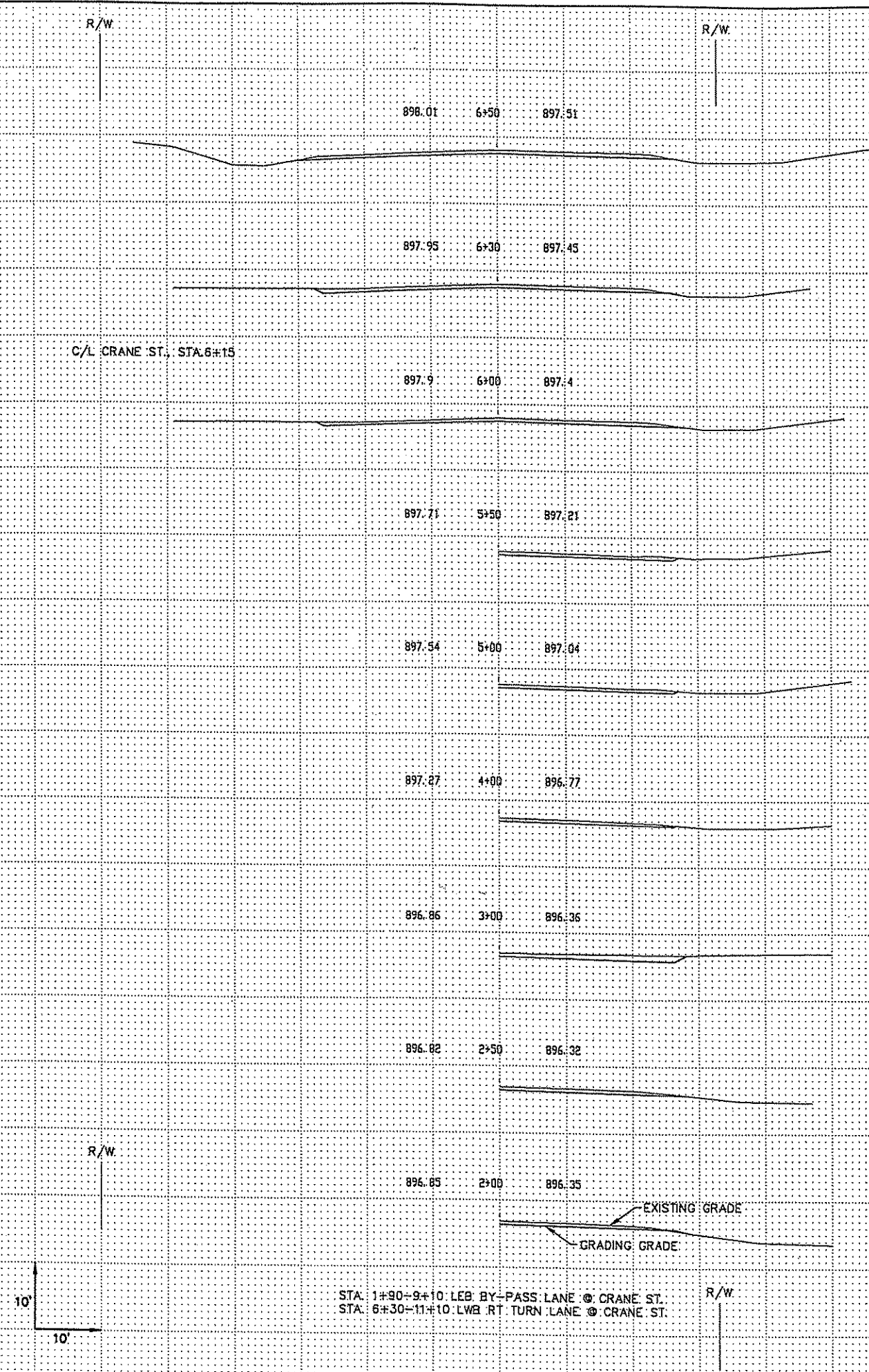


REVISIONS	DATE	BY	BY

-  WIDENING FOR TURN/BY-PASS LANES
-  SPECIAL OVERLAY AREAS

PLAN VIEW

REVISIONS	DATE	BY



STA. 1+90-9+10: LEB. BY-PASS LANE @ CRANE ST.  
 STA. 6+30-11+10: LWB. RT. TURN LANE @ CRANE ST.

CROSS-SECTIONS  
 STA. 2+00 TO STA. 11+00

C/L PARK ROAD "A", STA. 35+71

C/L WINTERGREEN ST., STA. 20+66

STA. 30+79-35+59 LWB RT. TURN LANE @ PARK RD. "A"

STA. 16+41-23+81 LEB BY-PASS LANE @ WINTERGREEN ST.  
STA. 20+81-25+61 LWB RT. TURN LANE @ WINTERGREEN ST.

REVISIONS	DATE	BY

10'  
10'

CROSS-SECTIONS  
STA. 16+00 TO STA. 35+00

REVISIONS	BY	DATE	BY

10'  
10'

R/W

909.63 68+00 909.13

908.93 67+00

STA. 67+42-74+62 LWB BY-PASS LANE @ PARK RD. "D"

R/W

893.68 52+00 893.18

R/W

893.43 51+00 892.93

R/W

893.82 50+00 892.72

C/L PRAIRIE RD., STA. 49+41

892.82 49+00 892.32

STA. 73+65-80+85 LEB BY-PASS LANE @ GOLDENROD ST.

892.58 48+00 892.08

905.48 73+00 904.98

R/W

893.39 46+00 892.89

906.56 72+00 906.06

894.39 45+00 893.89

STA. 45+22-52+42 LEB BY-PASS LANE @ PRAIRIE RD.

907.73 71+00 907.23

C/L PARK ROAD "D", STA. 70+34

908.89 70+00 908.39

909.51 69+00 909.01

R/W

R/W

CROSS-SECTIONS  
STA. 45+00 TO STA. 77+00



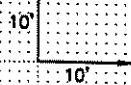
C/L BUTTERNUT ST., STA. 93+31

STA. 113+03-120+23 LEB. BY-PASS LANE @ TERRACE RD.  
 STA. 117+43-122+23 LWB. RT. TURN LANE @ TERRACE RD.

STA. 89+13-96+33 LEB. BY-PASS LANE @ BUTTERNUT ST.  
 STA. 93+53-98+33 LWB. RT. TURN LANE @ BUTTERNUT ST.

C/L GOLDENROD ST., STA. 78+20

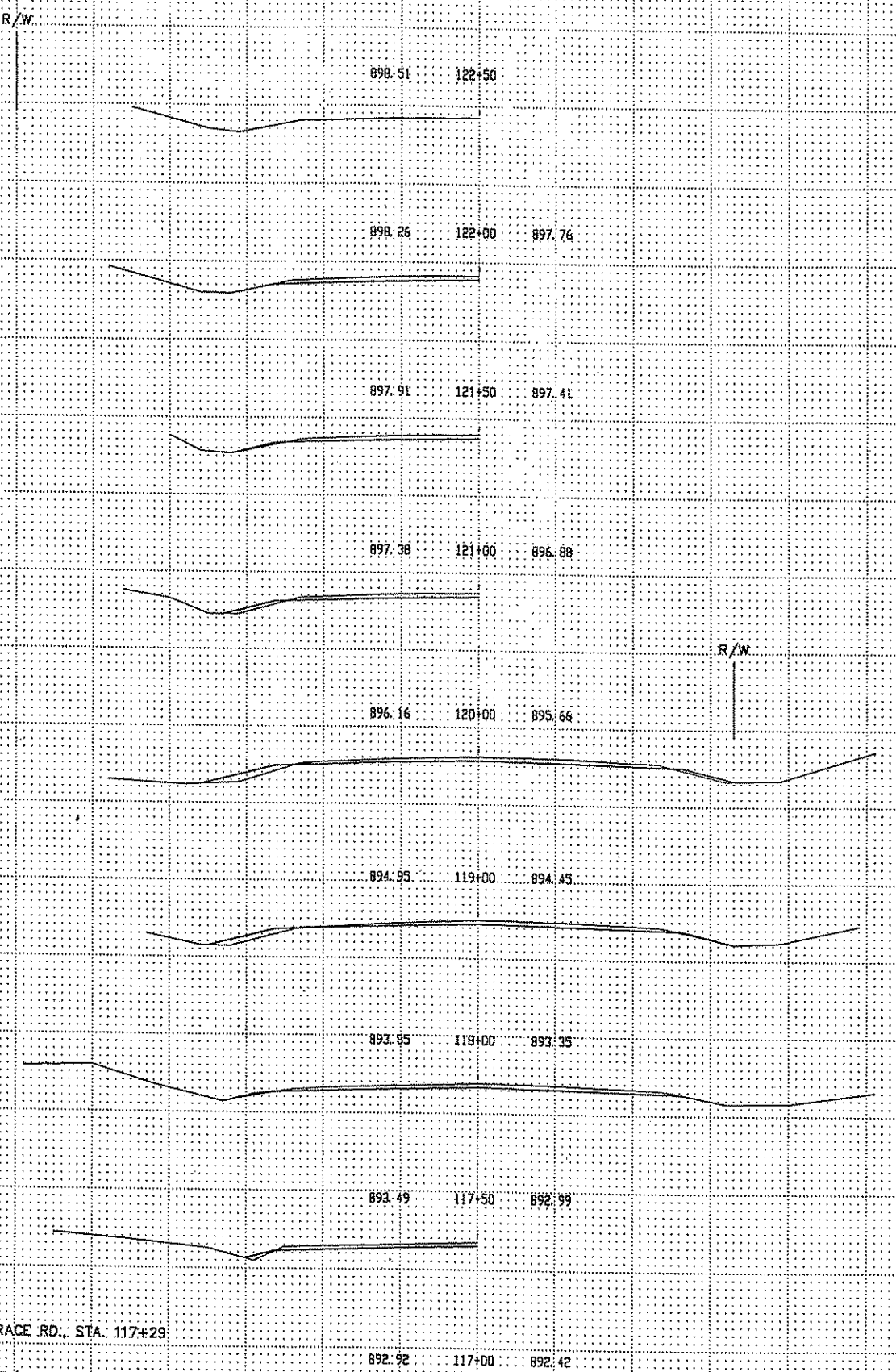
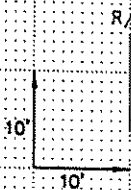
REVISIONS	DATE	BY



CROSS-SECTIONS  
 STA. 78+00 TO STA. 116+00

REVISIONS	DATE	BY

C/L TERRACE RD., STA. 117+29



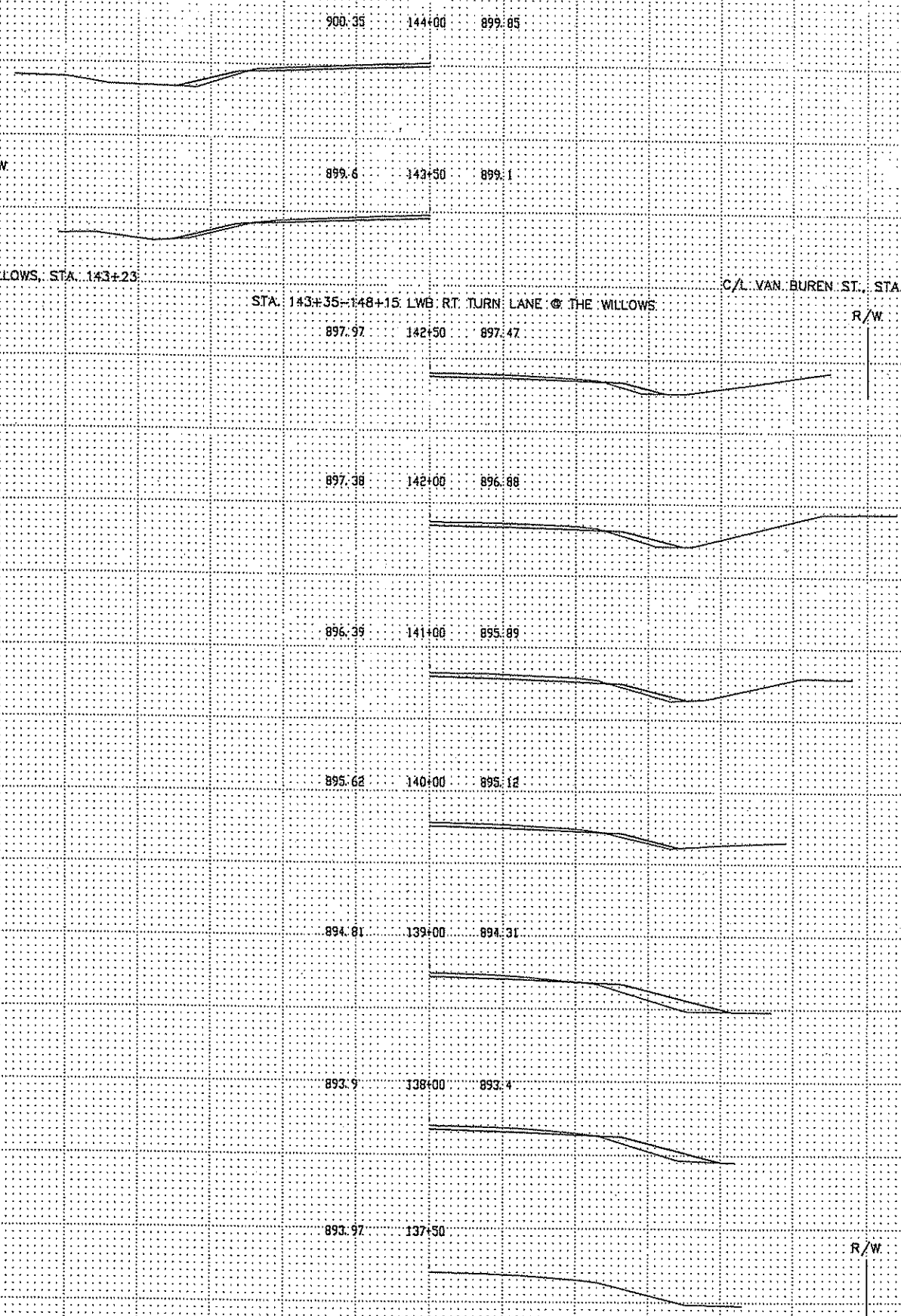
C/L THE WILLOWS, STA. 143+23

R/W

STA. 143+35-148+15 LWB RT. TURN LANE @ THE WILLOWS

C/L VAN BUREN ST., STA. 143+23

R/W



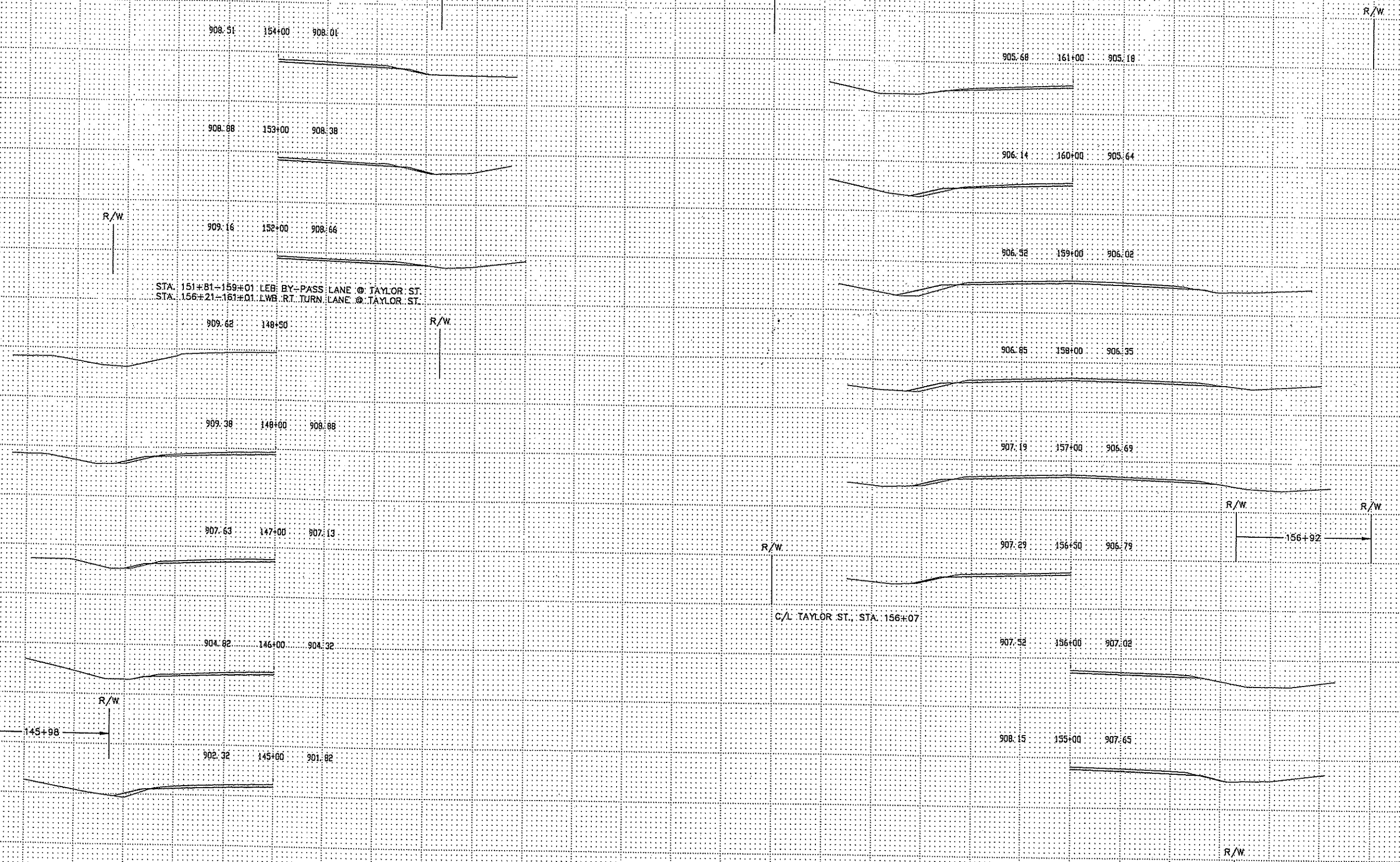
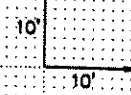
STA. 138+15-142+95 LEB RT. TURN LANE @ VAN BUREN ST.

CROSS-SECTIONS  
STA. 117+00 TO STA. 144+00

STA. 151+81-159+01 LEB. BY-PASS LANE @ TAYLOR ST.  
 STA. 156+21-161+01 LWB. RT. TURN LANE @ TAYLOR ST.

C/L TAYLOR ST., STA. 156+07

REVISIONS	DATE	BY



CROSS-SECTIONS  
 STA. 145+00 TO STA. 161+00