SUP

MARCH 2018

PROJECT ID: 8997-00-36

WITH: 8997-00-38

COUNTY: BARRON

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
~~Section No.~~	~~8~~	~~Structure Plans~~
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 210



44

N

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
8997-00-36	WISC 2018164	1
8997-00-38	WISC 2018165	1

C RICE LAKE EAST SOUTH STREET

MAIN ST TO KERN AVENUE

LOCAL STREET

BARRON COUNTY

STATE PROJECT NUMBER 8997-00-36

C RICE LAKE KERN AVENUE

MAIN ST TO E SOUTH ST

LOCAL STREET

BARRON COUNTY

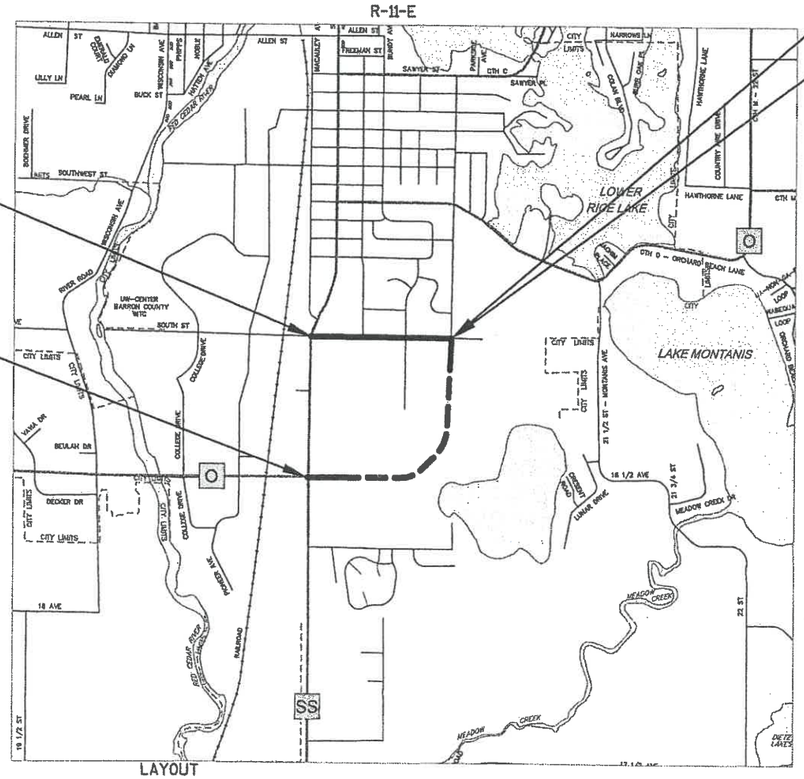
STATE PROJECT NUMBER 8997-00-38

BEGIN PROJECT ID 8997-00-36
STA 59+99.00
Y 126397.45
X 335096.44

BEGIN PROJECT ID 8997-00-38
STA 12+70.00
Y 123858.99
X 335060.85

END PROJECT ID 8997-00-36
STA 84+94.38

END PROJECT ID 8997-00-38
STA 58+10.00



LAYOUT

SCALE 0 1/2 MILE

TOTAL NET LENGTH OF CENTERLINE = 0.473 MI (36)
0.860 MI (38)

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, BARRON COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

DESIGN DESIGNATION

		E SOUTH ST	KERN AVE
A.A.D.T.	(2018)	= 2800	3900
A.A.D.T.	(2038)	= 3300	4700
D.H.V.	(2038)	= 270	360
D.D.	(%)	= 59/41	59/41
T.		= 5.2%	3.3%
DESIGN SPEED		= 30 MPH	30 MPH
ESALS		= 380,000	330,000

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'ER)
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

ACCEPTED FOR CITY OF RICE LAKE

10-23-17 (Date) PWD (Signature & Title of Official)

ORIGINAL PLANS PREPARED BY

WISCONSIN AYRES ASSOCIATES PROFESSIONAL ENGINEER
ERIC C. SORENSEN
33706-006
Eau Claire
WI

10/13/17 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	AYRES ASSOCIATES INC
Designer	AYRES ASSOCIATES INC
Management Consultant	KNIGHT E/A INC

APPROVED FOR THE DEPARTMENT

DATE: 10/30/17 (Management Consultant Signature)

E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\SHEETSPLAN\010101_TI.DWG
LAYOUT NAME - 010101_TI

PLOT DATE : 10/13/2017 11:08 AM PLOT BY : RESHESKE, CARRIE PLOT NAME :

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

SHRINKAGE OF EARTHWORK IS VARIABLE. AN AVERAGE FACTOR FOR EXCAVATION COMMON IS 25%.

FILL, AS SHOWN ON THE PLAN SHEETS, PERTAINS TO EMBANKMENT CONSTRUCTED FROM EXCAVATION COMMON. THE FACTOR USED FOR EXPANDING THE FILLS TO COMPUTE THE VOLUME OF MATERIAL REQUIRED IS 1.25.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS COMMON EXCAVATION.

WHEN THE QUANTITY OF BASE AGGREGATE DENSE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD THE DEPTH OF THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

THE EXACT LOCATION AND WIDTH OF DRIVEWAY ENTRANCES WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. ALL DRIVEWAYS ARE TO BE REPLACED IN KIND UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE PLANS.

SAWCUT LOCATIONS SHOWN ON THE PLAN ARE SUBJECT TO ADJUSTMENT BY THE ENGINEER IN THE FIELD. THE LINE OF SUCH SAWCUTS WILL BE NEATLY DELINEATED THROUGH THE ASPHALT AND/OR CONCRETE STREETS, DRIVEWAYS AND/OR PARKING LOTS AT THE MATCH LINE AS SHOWN ON THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER WITHOUT ANY DAMAGE TO THE REMAINING PORTION OF THE EXISTING PAVEMENT.

DRIVEWAY RAMPS TO BE CONSTRUCTED AS TYPE Z W/5' TAPERS REGARDLESS OF TERRACE WIDTH, UNLESS OTHERWISE NOTED.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN AND PROVIDE DOCUMENTATION TO THE ENGINEER.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS, FLOODWAY OR FLOODPLAIN OF ANY WETLANDS.

SEED, INSTALL EROSION MAT, AND FERTILIZE ALL SALVAGED TOPSOILED AREAS WITHIN 7 WORKING DAYS AFTER GRADING WORK IS COMPLETED.

DO NOT APPLY FERTILIZER WITHIN 20 FEET OF A WATER BODY OR WETLAND.

SEED MIXTURE NO.20 SHALL BE USED THROUGHOUT THE PROJECT, EXCEPT LAWN AND TERRACE AREAS WHERE NO.40 SHALL BE USED.

EROSION CONTROL MEASURES WILL BE PLACED AS SHOWN ON THE EROSION CONTROL PLAN. THE EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER. ANY REMOVAL OF ITEMS ARE INCIDENTAL TO THE RESPECTIVE EROSION CONTROL BID ITEM COSTS.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, AND TLE EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE SALVAGED TOPSOIL, FERTILIZED, SEEDED, TEMPORARY SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER.

RESHAPE AND SEEDING OF ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS OUTSIDE OF THE ENGINEER DETERMINED CONSTRUCTION LIMITS ARE INCIDENTAL TO THE CONTRACT.

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL BY THE ENGINEER. FINAL LIMITS OF FENCE REMOVAL TO BE DETERMINED BY THE ENGINEER.

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 110 LB/SY/IN.

STATIONING FOR SIGNS SHOWN IN THE PLANS ARE APPROXIMATE AND THE FINAL LOCATION OF SIGNS ARE TO BE DETERMINED BY THE ENGINEER.

CURB AND GUTTER ELEVATIONS ARE ALONG THE FLAG LINE UNLESS OTHERWISE NOTED.

RADIUS POINTS, UNLESS OTHERWISE NOTED, ARE TO FLAG OF CURB.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD.

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88(2012)).

UTILITY CONTACTS

CHARTER COMMUNICATIONS
2304 SOUTH MAIN STREET
RICE LAKE, WI 54868
ATTN: THOMAS HAASE
715-719-0564
tom.haase@charter.com

CENTURYLINK
20 SOUTH WILSON AVENUE
RICE LAKE, WI 54868
ATTN: KYLE SCHLAMPP
715-234-5573
kyle.schlampp@centurylink.com

MOSAIC TELECOM
401 SOUTH 1ST STREET
CAMERON, WI 54822
ATTN: PAT MCMANUS
715-458-5352
pmcmanus@mosaictelecom.com

RICE LAKE UTILITIES
320 WEST COLEMAN STREET
RICE LAKE, WI 54868
ATTN: TIM AABY - ELECTRIC
715-234-7004
tima@ricelakeutilities.com

ATTN: MIKE MAGEE - SANITARY
715-234-3681
mikem@ricelakeutilities.com

ATTN: DON ROBARGE - WATER
715-234-7004
donr@ricelakeutilities.com

WE ENERGIES
104 WEST SOUTH STREET
RICE LAKE, WI 54868
ATTN: LEWIS KNAPP
715-234-9605
lewis.knapp@we-energies.com

* DENOTES NOT A MEMBER OF DIGGERS HOTLINE

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

CITY OF RICE LAKE

STREET DIRECTOR
326 SOUTH MAIN STREET
RICE LAKE, WI 54868
ATTN: JIM ANDERSON
715-234-7402
janderson@ricelakegov.org

DESIGN CONTACT

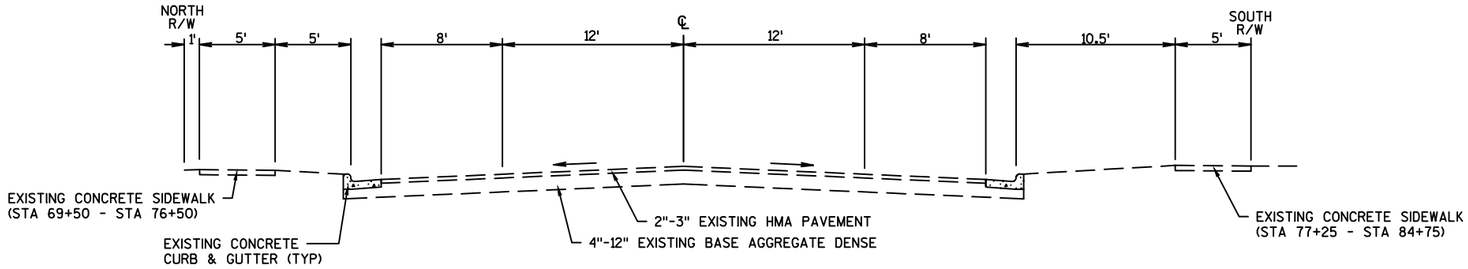
AYRES ASSOCIATES
3433 OAKWOOD HILLS PARKWAY
EAU CLAIRE, WI 54701
ATTN: ERIC SORENSEN, PE
715-834-3161
sorensene@ayresassociates.com

DNR CONTACT

DNR NORTHERN REGION
810 WEST MAPLE STREET
SPOONER, WI 54801
ATTN: AMY CRONK
715-635-4229
amy.cronk@wisconsin.gov

ORDER OF SECTION 2 SHEETS

Typical Sections
Construction Details
Intersection/Paving Details
Erosion Control & Drainage
Storm Sewer and Utilities
Signing & Marking
Pavement Marking
Traffic Control

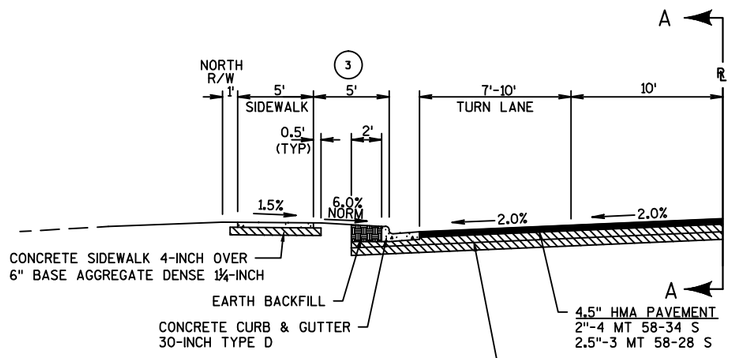


(3) SALVAGED TOPSOIL, SEEDING MIXTURE NO.40, SEEDING TEMPORARY & EROSION MAT

(4) SALVAGED TOPSOIL, SEEDING MIXTURE NO.20 OR NO.40, SEEDING TEMPORARY & MULCH

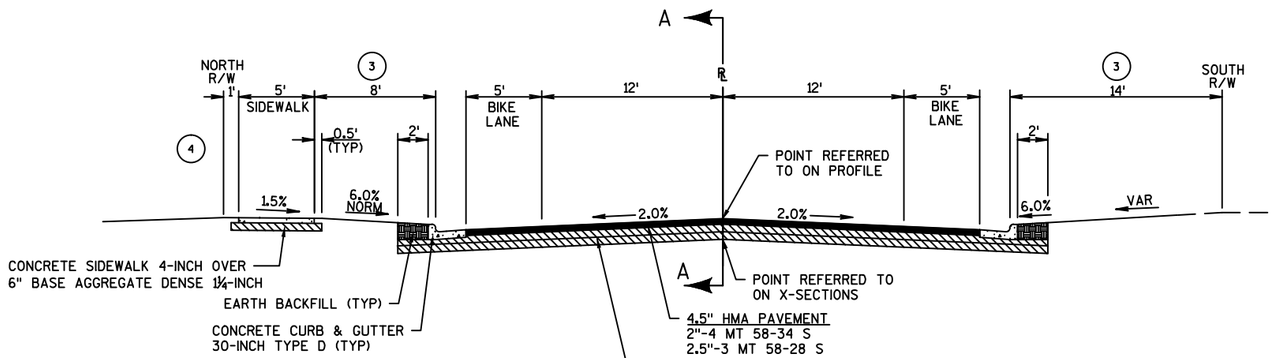
EXISTING TYPICAL SECTION E SOUTH ST

STA 59+99.00 - STA 84+94.38



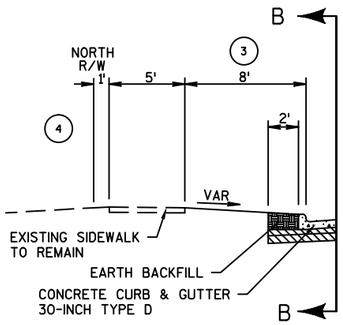
SECTION A-A

STA 59+99.00 - STA 62+15.00



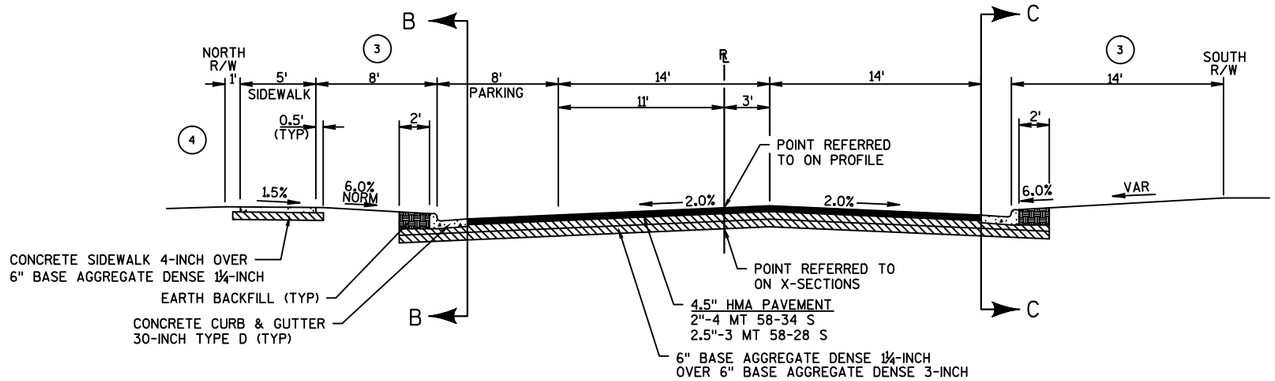
FINISHED TYPICAL SECTION E SOUTH ST

STA 59+99.00 - STA 69+00.00



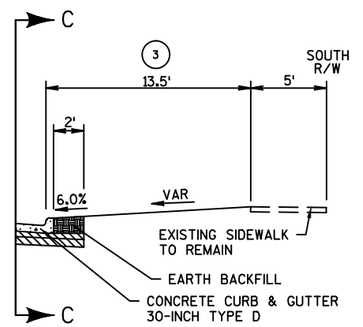
SECTION B-B

STA 69+50.00 - STA 76+50.00



FINISHED TYPICAL SECTION E SOUTH ST

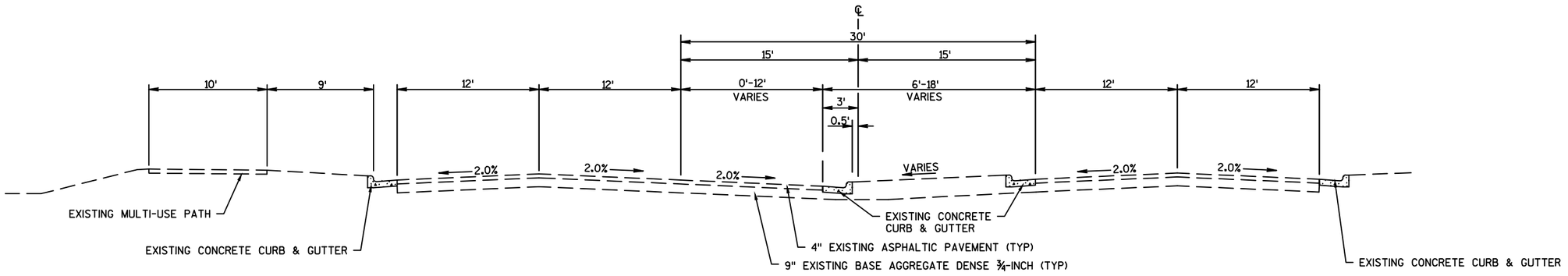
STA 69+00.00 - STA 84+94.38



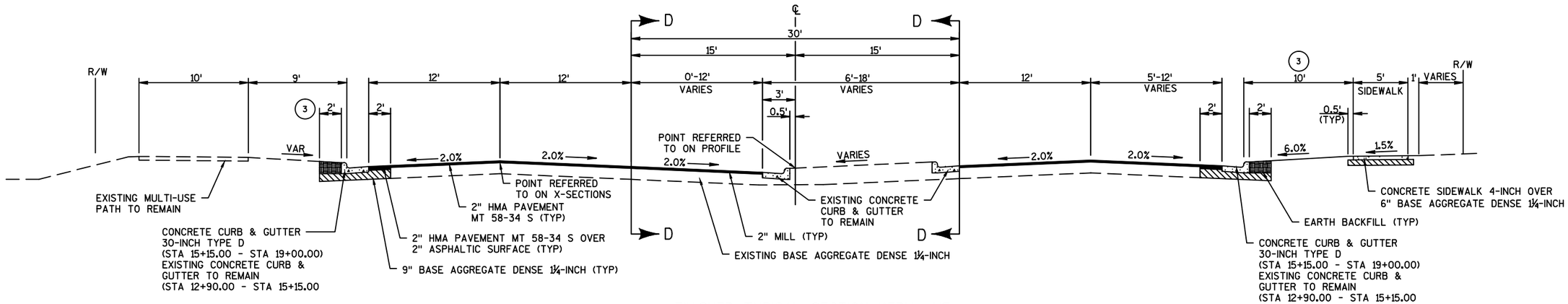
SECTION C-C

STA 77+25.00 - STA 84+75.00

PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	TYPICAL SECTIONS - E SOUTH ST	SHEET 3	E

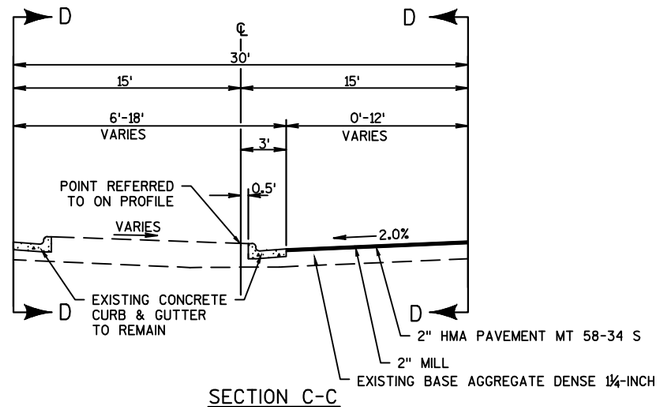


EXISTING TYPICAL SECTION KERN AVE



FINISHED TYPICAL SECTION KERN AVE

STA 12+70.00 - STA 18+40.00



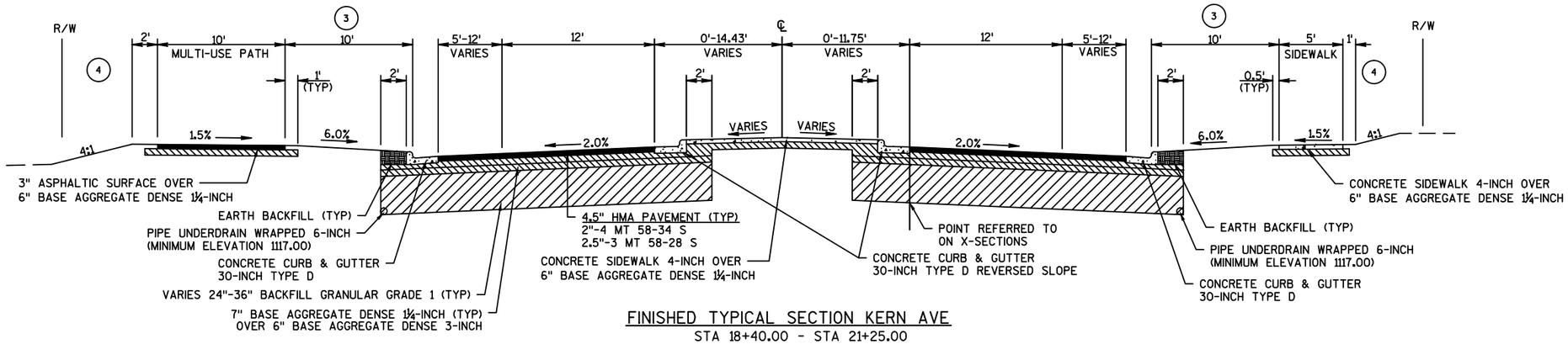
SECTION C-C

STA 14+25.00 - STA 15+75.00
STA 17+50.00 - STA 18+40.00

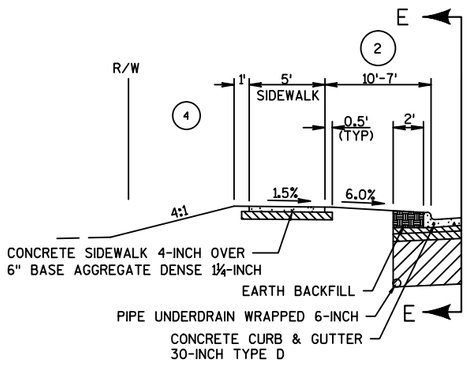
(3) SALVAGED TOPSOIL, SEEDING MIXTURE NO.40, SEEDING TEMPORARY & EROSION MAT

(4) SALVAGED TOPSOIL, SEEDING MIXTURE NO.20 OR NO.40, SEEDING TEMPORARY & MULCH

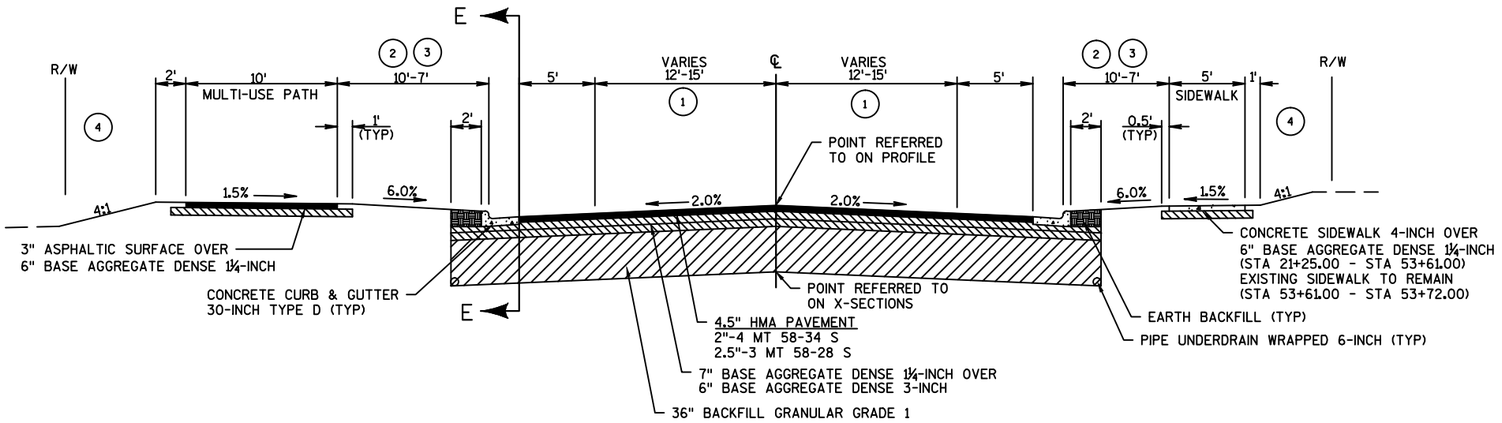
PROJECT NO:8997-00-38	HWY:LOCAL STREET	COUNTY:BARRON	TYPICAL SECTIONS - KERN AVE	SHEET 4	E



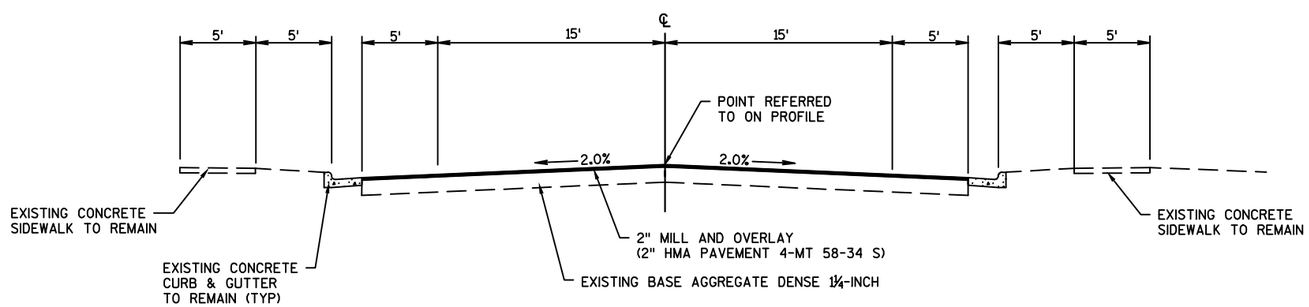
FINISHED TYPICAL SECTION KERN AVE
STA 18+40.00 - STA 21+25.00



SECTION C-C
STA 30+35.70 - STA 53+72.00



FINISHED TYPICAL SECTION KERN AVE
STA 21+25.00 - STA 53+72.00



FINISHED TYPICAL SECTION KERN AVE
STA 53+72.00 - STA 58+10.00

(1) LANE WIDTH TRANSITIONS FROM 12' TO 15' FROM STA 51+26.00 - STA 53+72.00

(2) 10' TERRACE FROM STA 21+25.00 - STA 44+00.00

7' TERRACE FROM STA 45+00.00 - STA 53+61.00

(3) SALVAGED TOPSOIL, SEEDING MIXTURE NO.40, SEEDING TEMPORARY & EROSION MAT

(4) SALVAGED TOPSOIL, SEEDING MIXTURE NO.20 OR NO.40, SEEDING TEMPORARY & MULCH

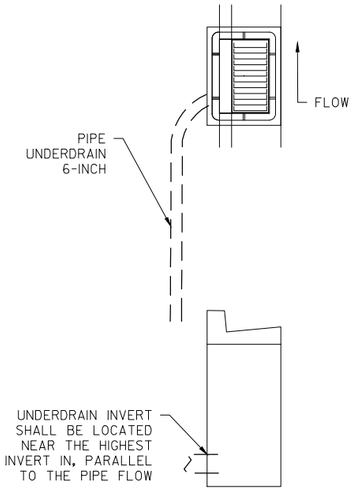
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RUNOFF COEFFICIENT TABLE

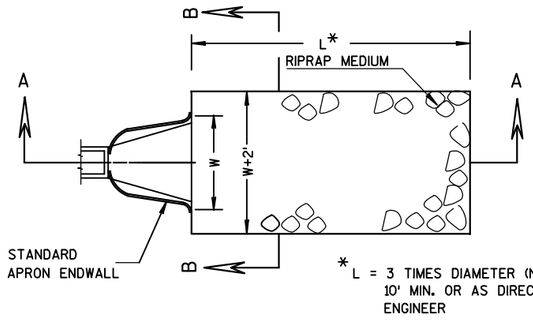
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

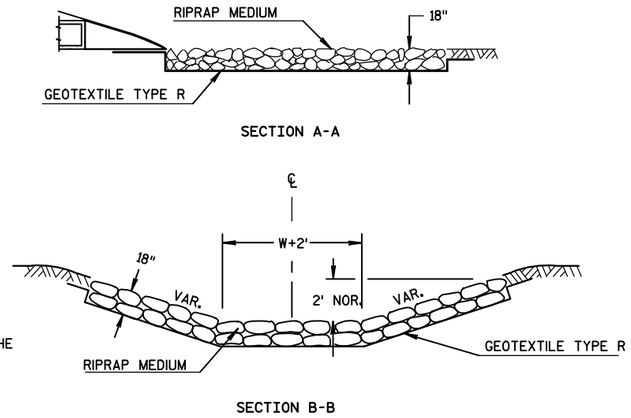
PROJECT ID 8997-00-36 TOTAL PROJECT AREA = 4.141 ACRES
PROJECT ID 8997-00-36 TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 3.809 ACRES
PROJECT ID 8997-00-38 TOTAL PROJECT AREA = 12.670 ACRES
PROJECT ID 8997-00-38 TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 8.552 ACRES

2

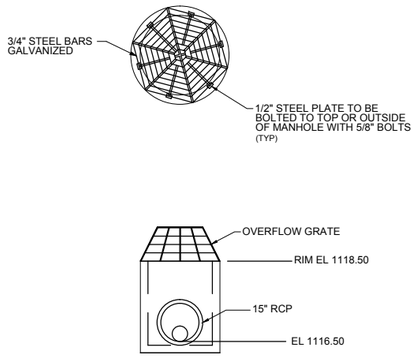


PIPE UNDERDRAIN CONNECTION

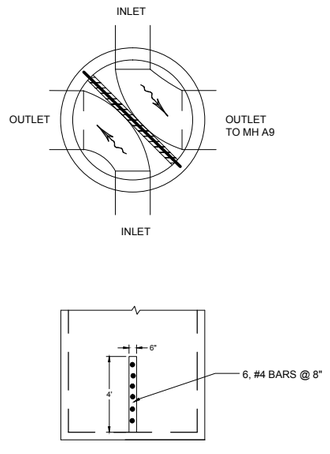




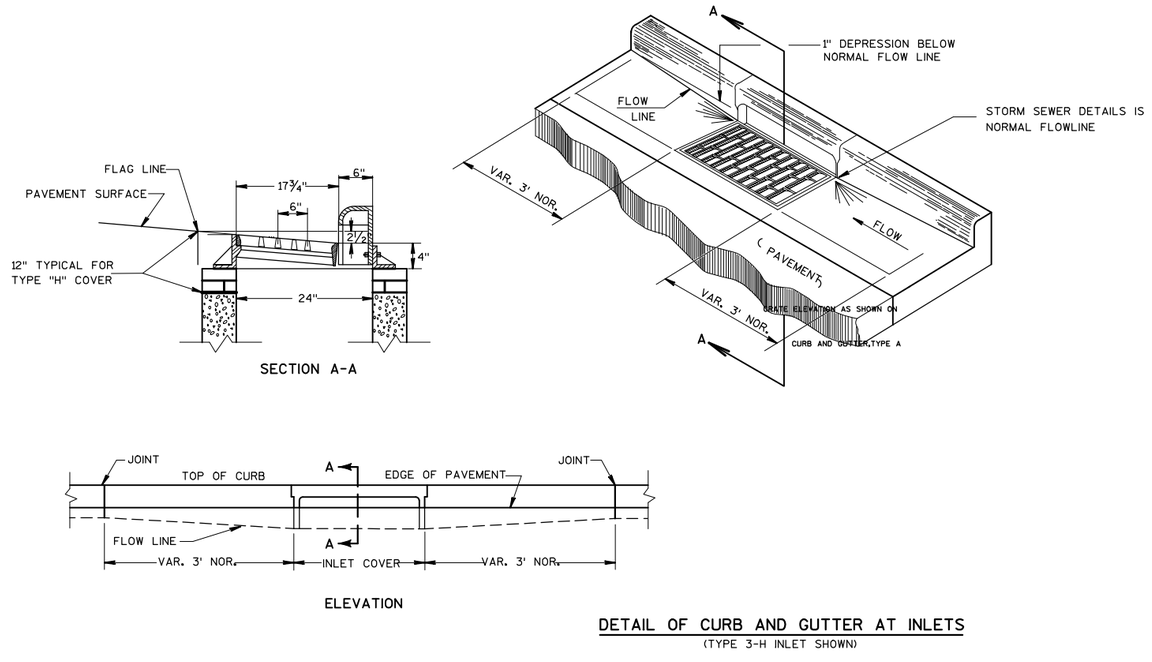
RIPRAP MEDIUM AND GEOTEXTILE AT APRON ENDWALL



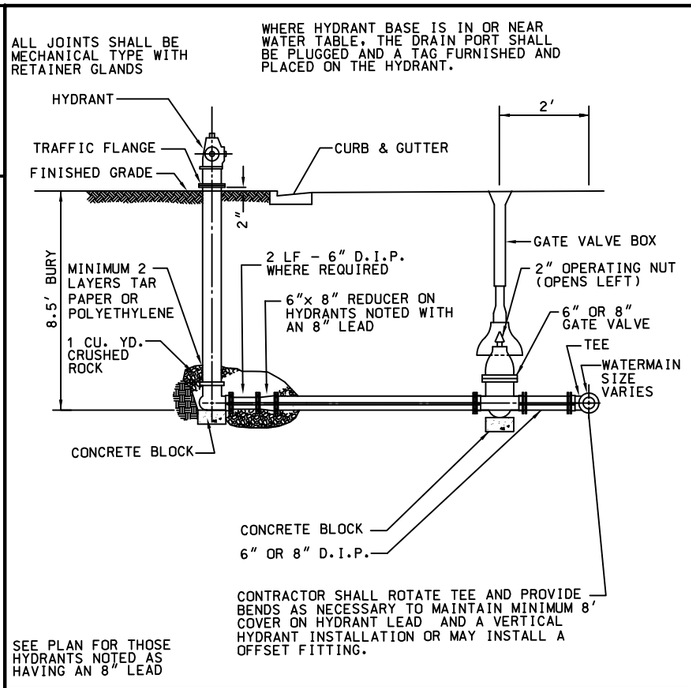
STORM MANHOLE OVERFLOW GRATE



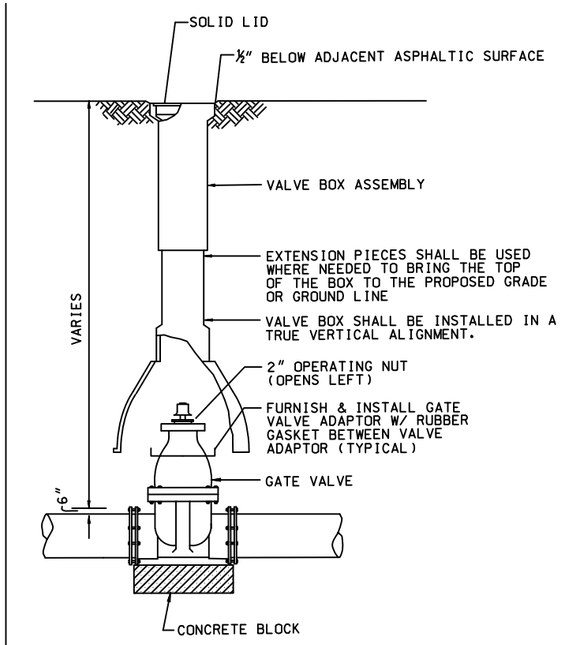
DIVERSION WEIR



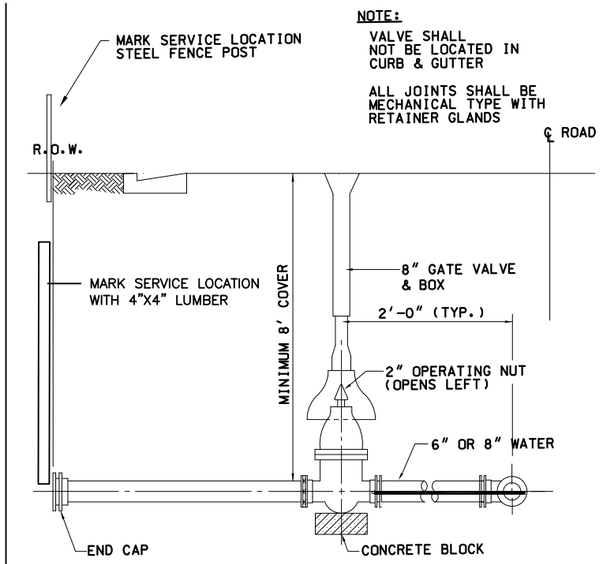
DETAIL OF CURB AND GUTTER AT INLETS
(TYPE 3-H INLET SHOWN)



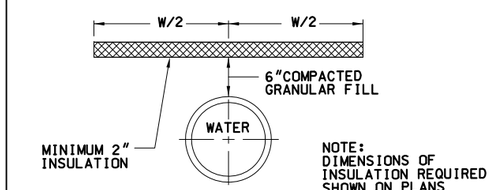
FIRE HYDRANT



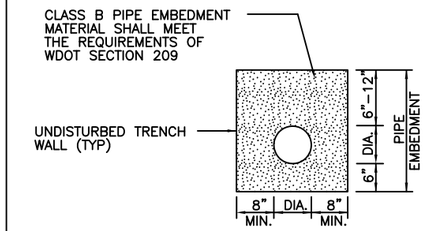
GATE VALVE & BOX



6" OR 8" WATER SERVICE

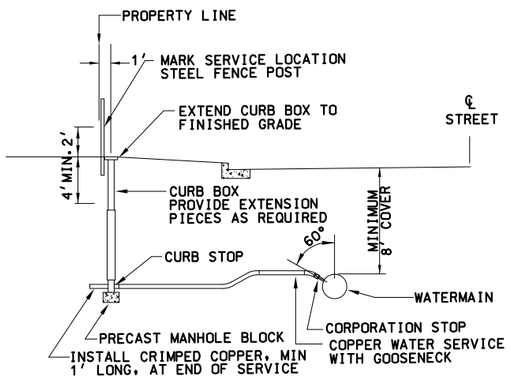


INSULATE WATER MAIN

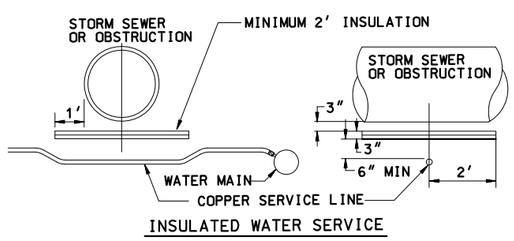


NOTE: CLASS B PIPE EMBEDMENT SHALL BE INCIDENTAL TO ALL PIPE INSTALLATION

CLASS B PIPE EMBEDMENT

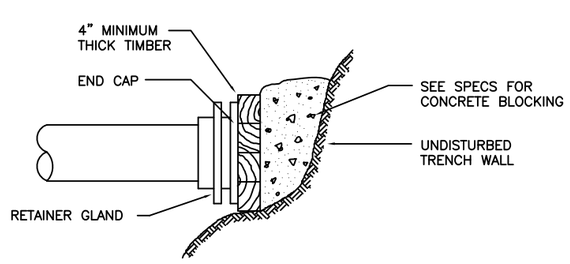


WATER SERVICE CONNECTION

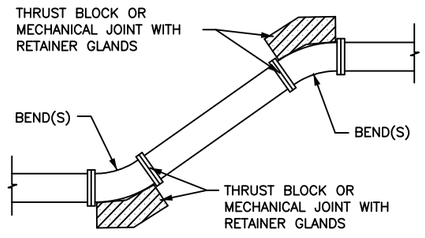


INSULATED WATER SERVICE

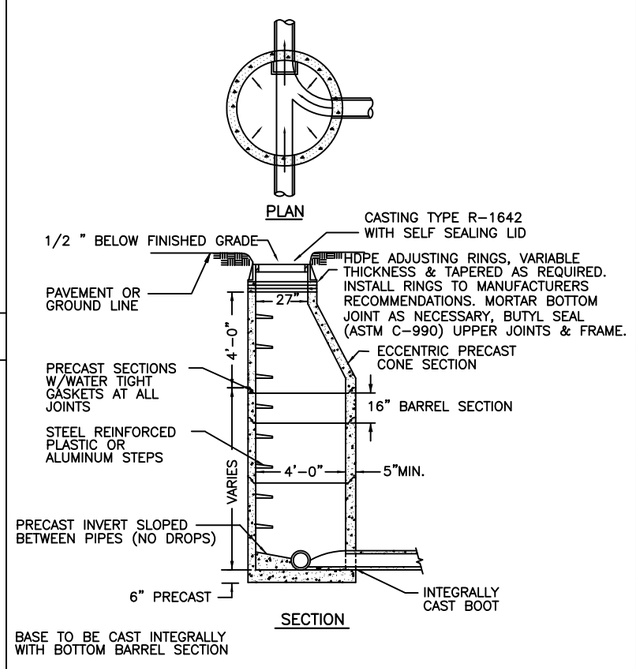
1" OR 1-1/2" WATER SERVICE CONNECTION



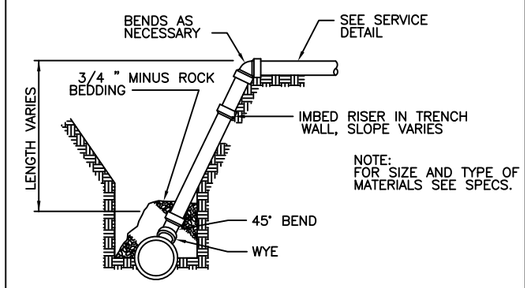
DEAD END BLOCKING



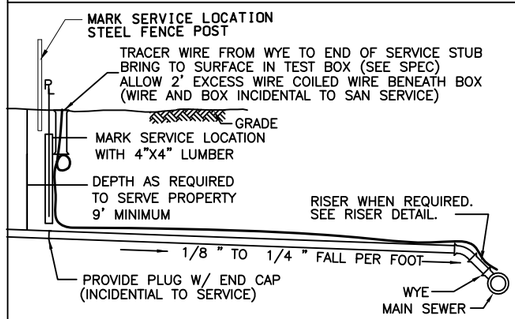
THRUST BLOCK



SANITARY MANHOLE

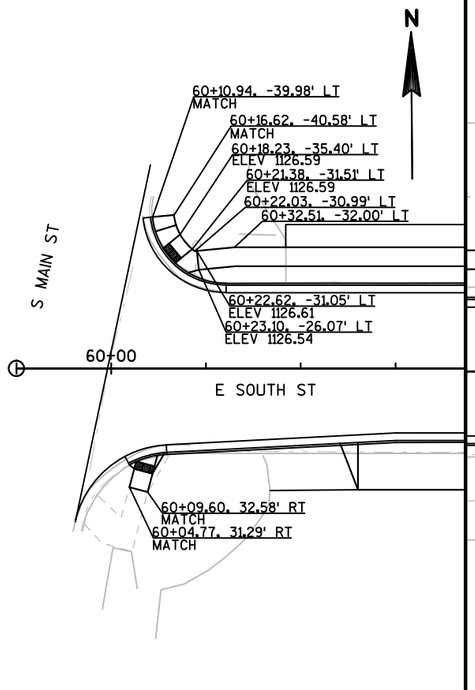


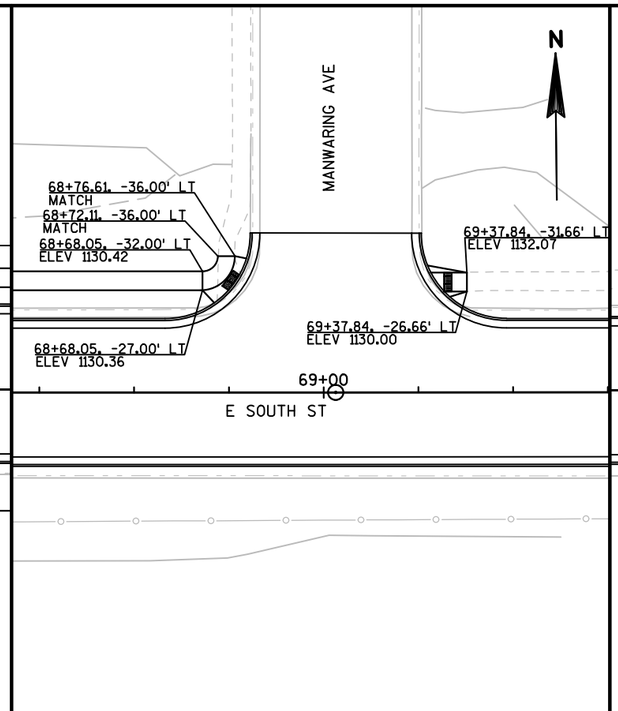
SANITARY SEWER SERVICE RISER

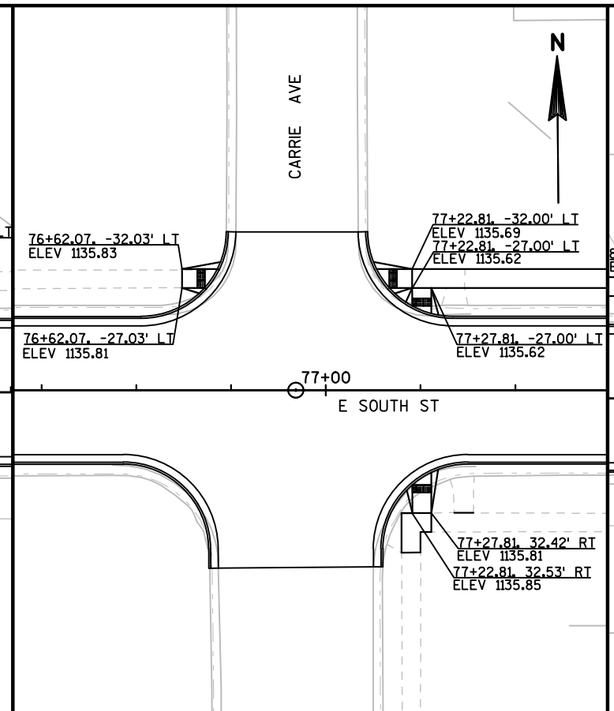


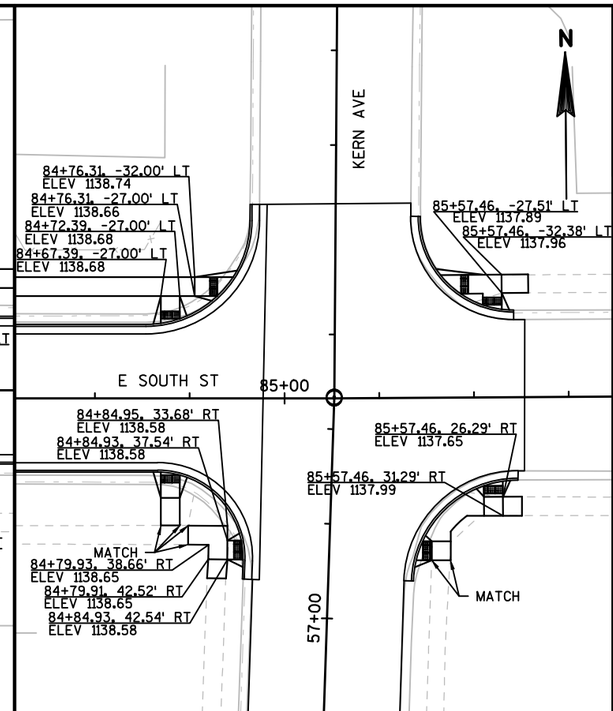
SANITARY SEWER SERVICE

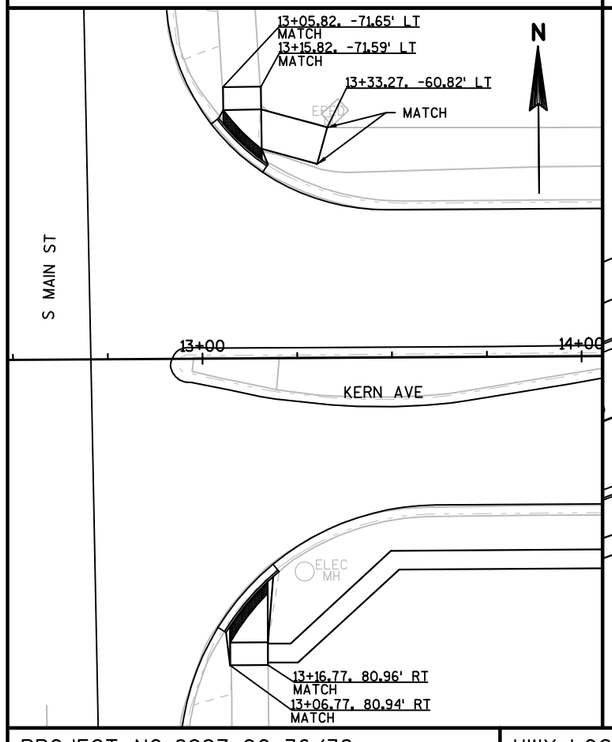
PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	DETAILS	SHEET E

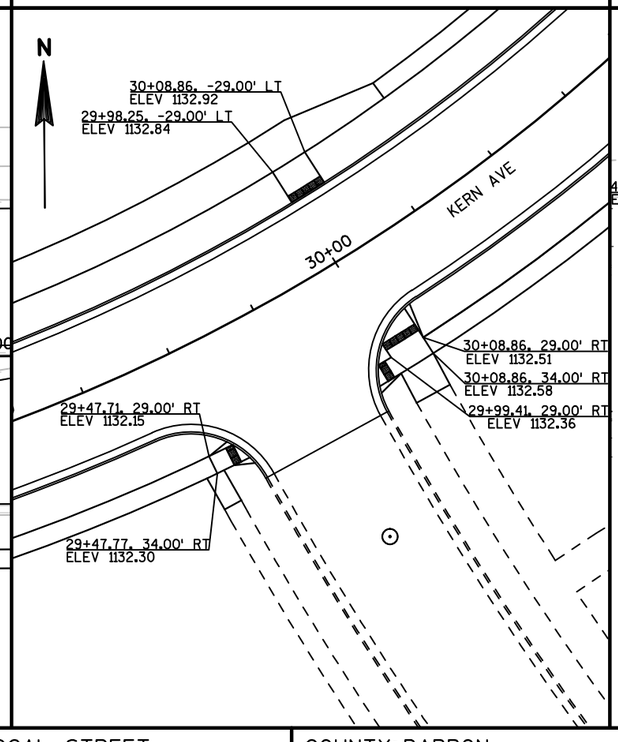


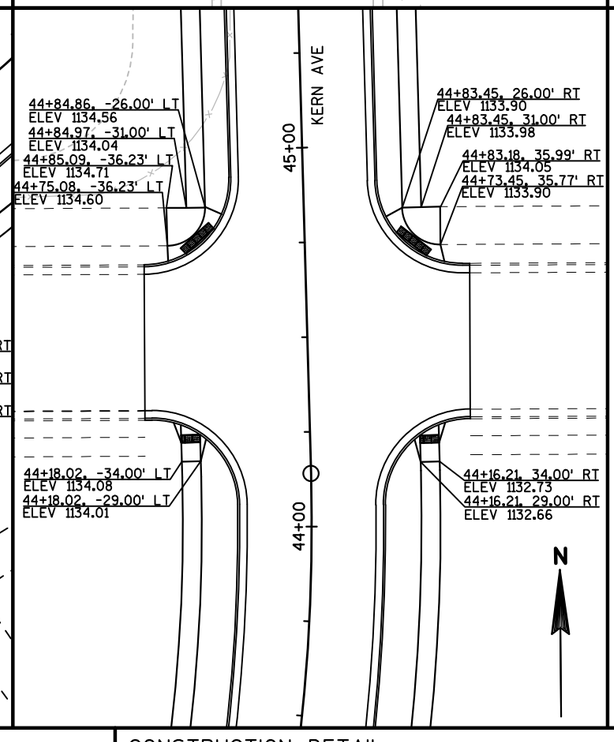








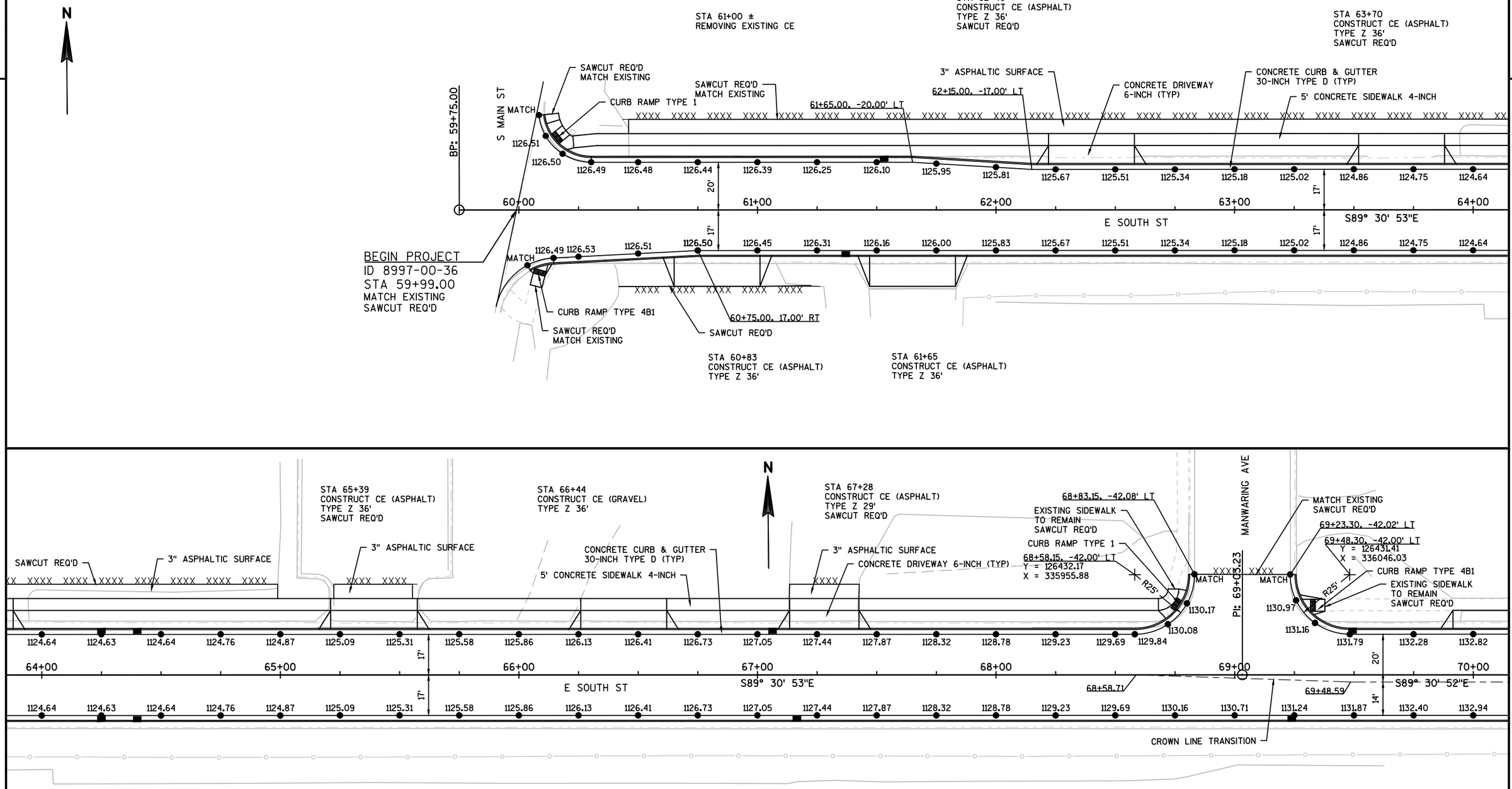




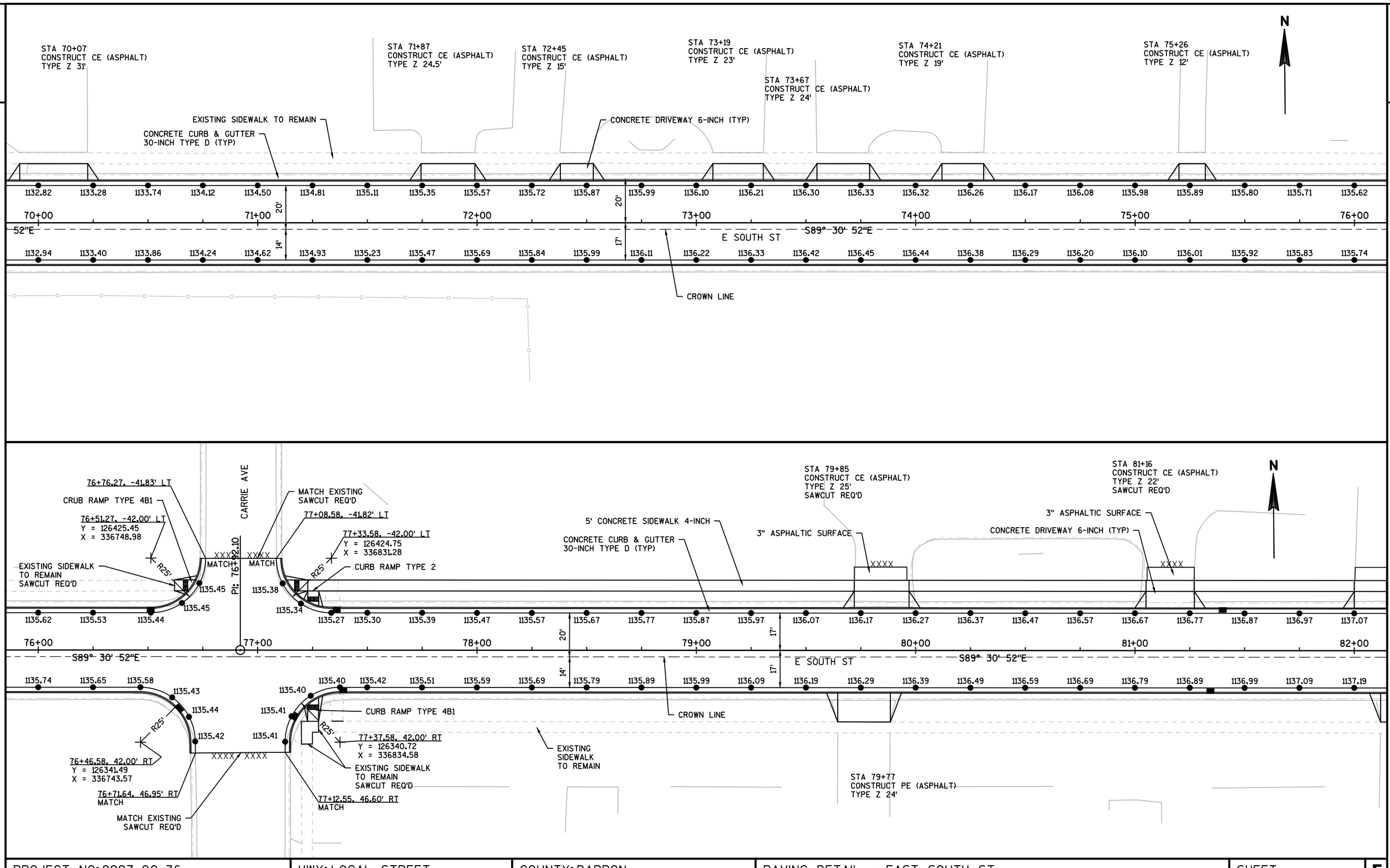
NOTES:
ADJUST ELEVATIONS AS NECESSARY TO MATCH EXISTING GRADES AND MINIMUM/ MAXIMUM SLOPES IN SDD.

TIE INTO EXISTING SIDEWALK AT AN EXISTING JOINT.

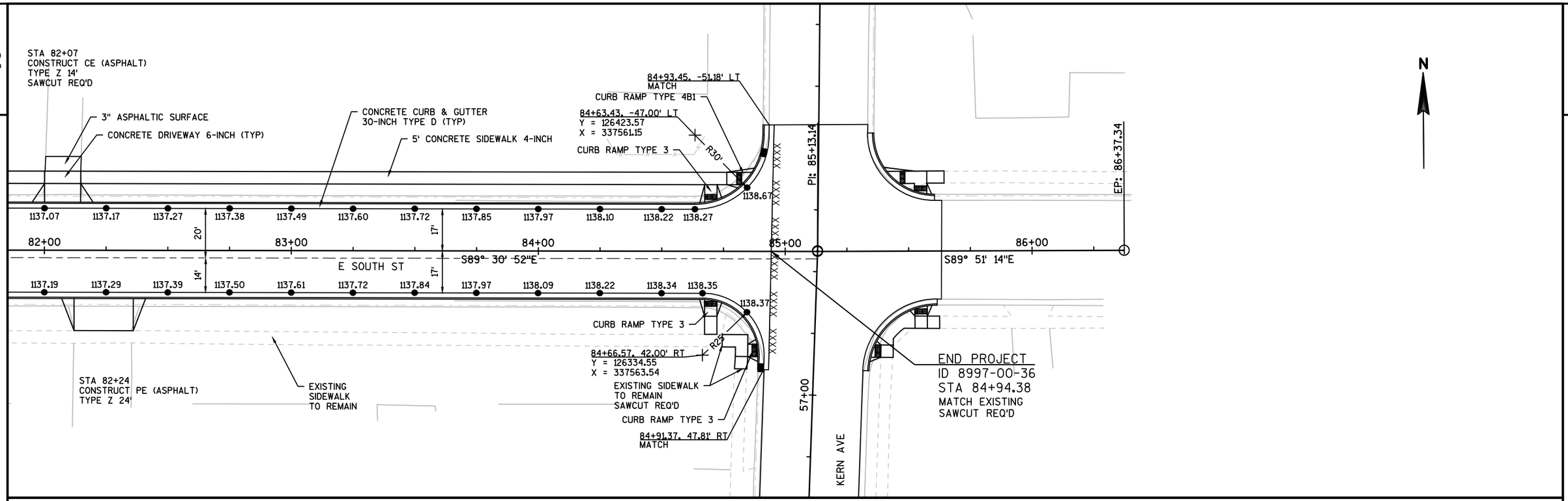
PROJECT NO: 8997-00-36/38	HWY: LOCAL STREET	COUNTY: BARRON	CONSTRUCTION DETAIL	SHEET 9	E



PROJECT NO:8997-00-36	HWY:LOCAL STREET	COUNTY:BARRON	PAVING DETAIL - EAST SOUTH ST	SHEET 10	E



PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	PAVING DETAIL - EAST SOUTH ST	SHEET 11	E



PROJECT NO:8997-00-36	HWY:LOCAL STREET	COUNTY:BARRON	PAVING DETAIL - EAST SOUTH ST	SHEET 12	E

2

N

10' MULTI-USE PATH SAWCUT REQ'D MATCH EXISTING

MODIFIED CURB RAMP TYPE 4B1 **

10' MULTI-USE PATH SAWCUT REQ'D MATCH EXISTING

13+02.67 MATCH

13+16.19 MATCH

EXISTING MULTI-USE PATH TO REMAIN

10' MULTI-USE PATH SAWCUT REQ'D MATCH EXISTING

3" ASPHALTIC SURFACE

STA 15+70 CONSTRUCT CE (ASPHALT) TYPE Z 57' SAWCUT REQ'D

CONCRETE CURB & GUTTER 30-INCH TYPE D (TYP)

10' MULTI-USE PATH SAWCUT REQ'D MATCH EXISTING

16+15.01, -50.43' LT

CONCRETE CURB & GUTTER 30-INCH TYPE D (TYP)

EXISTING MULTI-USE PATH TO REMAIN

SAWCUT REQ'D MATCH EXISTING

10' MULTI-USE PATH

17+71.72, -50.18' LT

17+87.08, -32.00' LT

15+25.00, -49.78' LT

15+15.01, -39.00' LT MATCH

16+99.99, -39.00' LT

1123.93 1123.92 1123.62 1123.29 1122.88 1122.47 1122.27 1122.06 1121.93 1121.79 1121.72 1121.62

2' 37' 36' 17'

EXISTING CONCRETE CURB& GUTTER TO REMAIN

EXISTING CONCRETE CURB& GUTTER TO REMAIN

12+00 13+00 14+00 15+00 16+00 17+00 18+00

KERN AVE

S89° 51' 53"E

BEGIN PROJECT
ID 8997-00-38
STA 12+70.00
MATCH EXISTING
SAWCUT REQ'D

** MODIFIED TO BE 10' WIDE DETECTABLE WARNING FIELD

EXISTING CONCRETE CURB& GUTTER TO REMAIN

37' 29'

1123.91 1123.92 1123.62 1123.30 1122.89 1122.48 1122.40 17' 1122.27 2' 1122.07 1121.87 1121.69 1121.50

13+18.24 MATCH

13+03.64 MATCH

13+51.57, 56.00' RT

MODIFIED CURB RAMP TYPE 4B1 **

13+24.72, 80.30' RT

10' MULTI-USE PATH SAWCUT REQ'D MATCH EXISTING

5' CONCRETE SIDEWALK 4-INCH

15+14.99, 39.00' RT MATCH

CONCRETE CURB & GUTTER 30-INCH TYPE D (TYP)

STA 15+68 CONSTRUCT CE (ASPHALT) TYPE Z 30' SAWCUT REQ'D

3" ASPHALTIC SURFACE

16+00.01, 39.00' RT

16+75.00, 32.00' RT

17+55.24, 56.00' RT

STA 18+81 CONSTRUCT CE (ASPHALT) TYPE Z 30' SAWCUT REQ'D

CONCRETE CURB & GUTTER 30-INCH TYPE D (TYP)

3" ASPHALTIC SURFACE

18+74.71, -32.00' LT

19+56.52, -65.13' LT
Y = 123922.50
X = 335747.52

CONCRETE SIDEWALK 4-INCH

B R=4'
20+57.74, -0.02' LT
Y = 123857.14
X = 335848.58

10' MULTI-USE PATH

21+25.51, -17.00' LT

CONCRETE CURB & GUTTER 30-INCH TYPE D

N

1121.62 1121.55 17' 2' 1121.41 1121.51 1121.42 1121.32 1121.23 1121.13 1121.04 1120.95 1120.86 1120.76 1120.69 1120.76 1120.79 1120.95 1121.12 1121.31 1121.50 1121.69 1121.87 1122.06 1122.25 1122.54 1122.84

MATCH 1121.37

CONCRETE MEDIAN SLOPED NOSE TYPE 2

1121.66 1121.57 1121.47 1121.38 1121.29 1121.20

C R5' A R5' B R4'

18+00 19+00 20+00 21+00 22+00 23+00 24+00

MATCH 1121.53

1121.84 1121.59 1121.47 1121.38 1121.29 1121.20

S89° 51' 53"E KERN AVE

CONCRETE MEDIAN SLOPED NOSE TYPE 2

29' 17'

1121.50 1121.39 2' 1121.31 1121.51 1121.42 1121.32 1121.23 1121.13 1121.04 1120.95 1120.86 1120.76 1120.69 1120.76 1120.79 1120.95 1121.12 1121.31 1121.50 1121.69 1121.87 1122.06 1122.25 1122.54 1122.84

R75' R75'

18+72.71, 32.00' RT

A R=5'
19+16.88, -7.44' LT
Y = 123864.90
X = 335707.75

CONCRETE CURB & GUTTER 30-INCH TYPE D REVERSED SLOPE

21+25.50, 17.00' RT

21+25.58, 34.00' RT

3" ASPHALTIC SURFACE

5' CONCRETE SIDEWALK 4-INCH

3" ASPHALTIC SURFACE

18+29.43, 60.00' RT
Y = 123797.67
X = 335620.14

C R=5'
18+61.93, -2.00' LT
Y = 123850.31
X = 335645.00

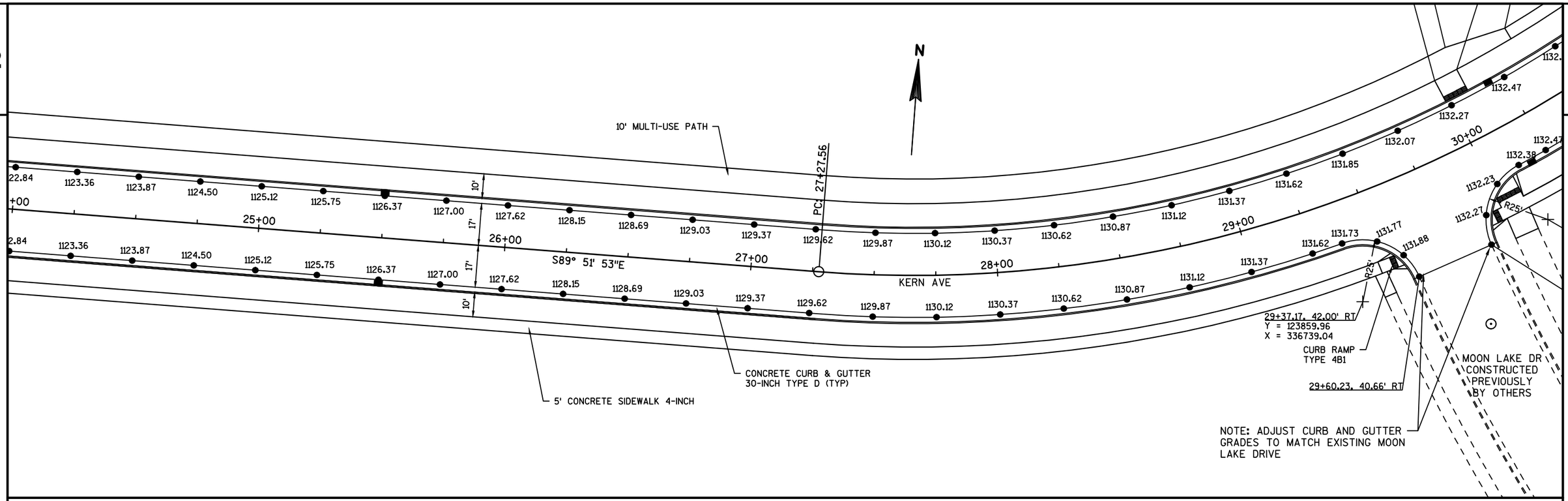
CONCRETE CURB & GUTTER 30-INCH TYPE D

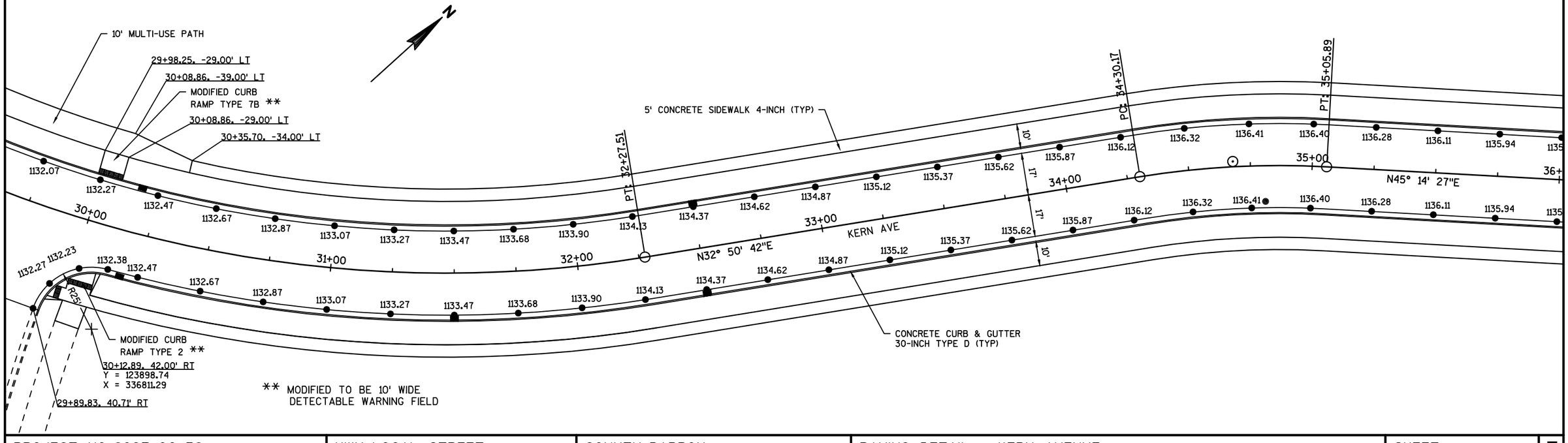
STA 19+11 CONSTRUCT 14' CURB CUT (WIDTH OF DRIVEWAY)

STA 21+50 CONSTRUCT CE (ASPHALT) TYPE Z 30'

STA 22+22 CONSTRUCT CE (ASPHALT) TYPE Z 25'

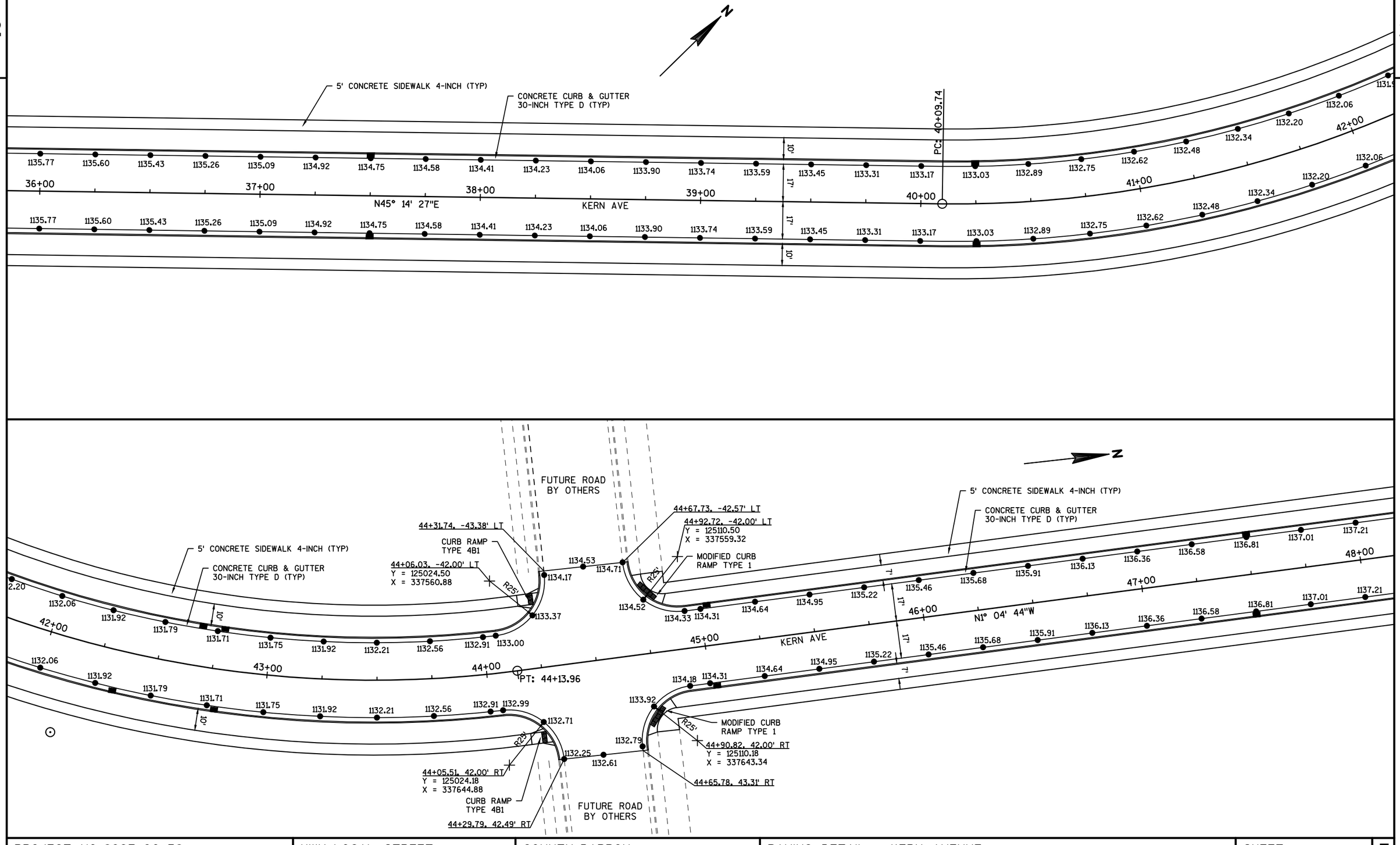
PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	PAVING DETAIL - KERN AVENUE	SHEET 13	E





PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	PAVING DETAIL - KERN AVENUE	SHEET 14	E

2



PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	PAVING DETAIL - KERN AVENUE	SHEET 15	E

2

N

5' CONCRETE SIDEWALK 4-INCH (TYP)

CONCRETE CURB & GUTTER 30-INCH TYPE D (TYP)

STA 52+06
CONSTRUCT CE (ASPHALT)
TYPE Z 30.5'
SAWCUT REQ'D

PC: 51+66.74

PT: 52+57.33

52+16.38, -17.83' LT

52+73.84, -32.00' LT

53+06.43, -20.00' LT

MATCH EXISTING SIDEWALK SAWCUT REQ'D

MATCH EXISTING CURB & GUTTER

1137.21 1137.36 1137.51 1137.63 1137.76 1137.88 1138.01 1138.12 1138.24 1138.25 1138.26 1138.16 1138.06 1137.93 1137.81 1137.70 1137.60 1137.59 1137.60 1137.72 1137.87 1138.13 1138.39

7' 17' 7'

20'

48+00 49+00 50+00 51+00 52+00 53+00 54+00

KERN AVE N1° 04' 44"W N2° 22' 53"E

1137.21 1137.36 1137.51 1137.63 1137.76 1137.88 1138.01 1138.12 1138.24 1138.25 1138.26 1138.16 1138.06 1137.93 1137.80 1137.69 1137.57 1137.57 1137.58 1137.72 1137.87 1138.13 1138.39

20'

SAWCUT REQ'D

STA 51+00
CONSTRUCT CE
TYPE Z 24'

51+89.24, 30.83' RT

51+98.41, 18.86' RT

52+29.54, 31.01' RT

51+25.59, 17.00' RT

600' RADIUS

STA 52+46
CONSTRUCT CE
TYPE Y 24'

MATCH EXISTING CURB & GUTTER

MATCH EXISTING SIDEWALK SAWCUT REQ'D

N

EXISTING SIDEWALK TO REMAIN

EXISTING CURB & GUTTER TO REMAIN

MATCH EXISTING SIDEWALK SAWCUT REQ'D

EAST SOUTH ST

PI: 57+58.46

END PROJECT
ID 8997-00-38
STA 58+10.00
MATCH EXISTING
SAWCUT REQ'D

EP: 59+07.83

85+00

54+00 55+00 56+00 57+00 58+00 59+00

KERN AVE N2° 22' 53"E N0° 54' 23"E

SAWCUT REQ'D

MATCH

1137.98

1138.30

CONCRETE CURB & GUTTER 30-INCH TYPE D (TYP)

CURB RAMP TYPE 2

MATCH EXISTING SIDEWALK SAWCUT REQ'D

MATCH EXISTING SIDEWALK SAWCUT REQ'D

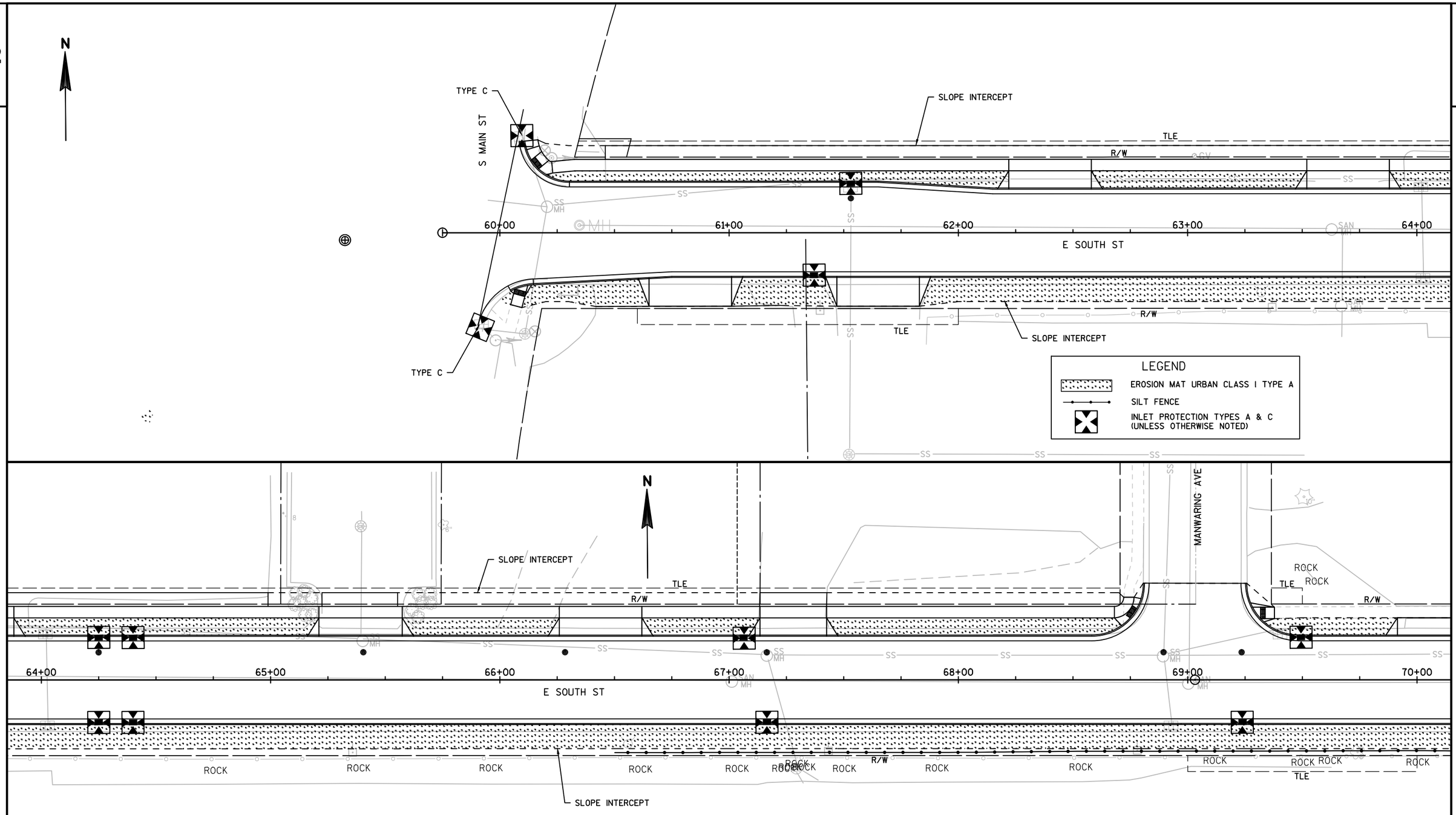
CURB RAMP TYPE 3

CONSTRUCTION LIMITS
STA 85+63.35
MATCH EXISTING
SAWCUT REQ'D

86+00

PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	PAVING DETAIL - KERN AVENUE	SHEET 16	E

2



PROJECT NO:8997-00-36	HWY:LOCAL STREET	COUNTY:BARRON	EROSION CONTROL - EAST SOUTH ST	SHEET 17	E

2

N

SLOPE INTERCEPT

R/W

ROCK ROCK ROCK ROCK

ROW

SS SS SS SS SS SS SS SS SS SS SS SS SS SS SS SS

SS MH SS MH SAN MH

70+00 71+00 72+00 73+00 74+00 75+00 76+00

E SOUTH ST

ROCK ROCK

TLE

R/W

SLOPE INTERCEPT

LEGEND

EROSION MAT URBAN CLASS I TYPE A

SILT FENCE

INLET PROTECTION TYPES A & C (UNLESS OTHERWISE NOTED)

CARRIE AVE

N

ROCK ROCK ROCK ROCK

SLOPE INTERCEPT

TLE

R/W

TLE

R/W

SS SS SS SS MH

76+00 77+00 78+00 79+00 80+00 81+00 82+00

SAN MH

E SOUTH ST

SS MH

R/W

TLE

R/W

EXIST R/W EASEMENT

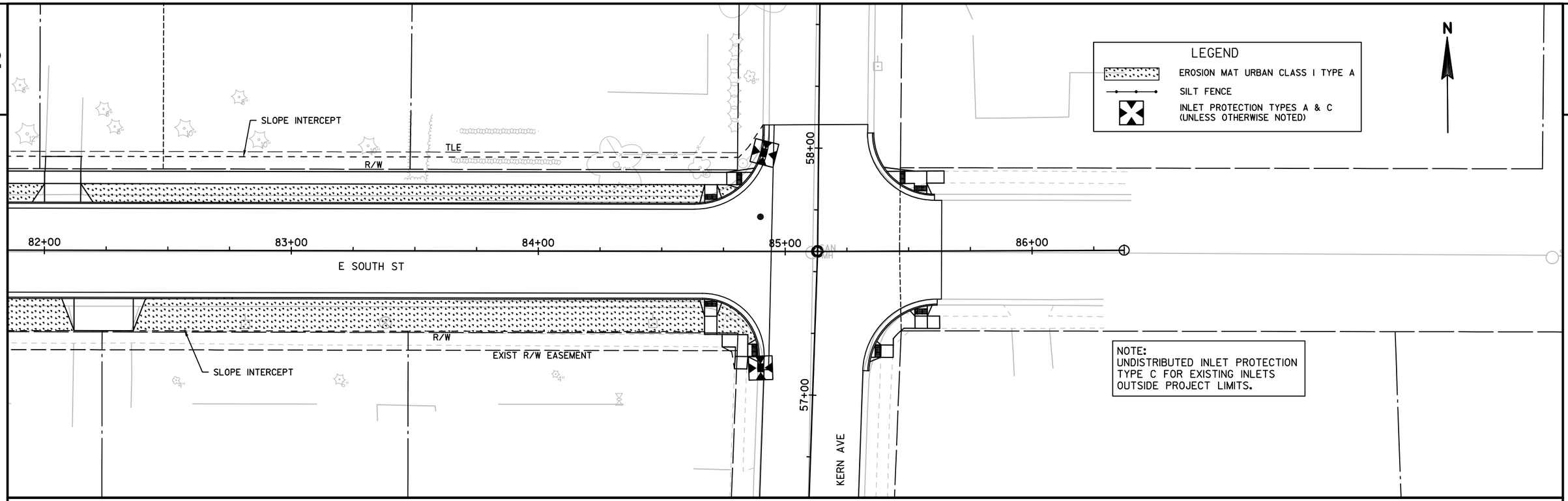
SLOPE INTERCEPT

PROJECT NO:8997-00-36	HWY:LOCAL STREET	COUNTY:BARRON	EROSION CONTROL - EAST SOUTH ST	SHEET	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - 022002_EC

PLOT DATE : 10/17/2017 1:55 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44



PROJECT NO:8997-00-36	HWY:LOCAL STREET	COUNTY:BARRON	EROSION CONTROL - EAST SOUTH ST	SHEET 19	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - 022003_EC

PLOT DATE : 10/19/2017 2:06 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

N

R/W

SS MH

SS

SAN

SLOPE INTERCEPT

TYPE C

12+00 13+00 14+00 15+00 16+00 17+00 18+00

R/W

TLE

SLOPE INTERCEPT

R/W

LEGEND

EROSION MAT URBAN CLASS I TYPE A

SILT FENCE

INLET PROTECTION TYPES A & C (UNLESS OTHERWISE NOTED)

N

SLOPE INTERCEPT

TLE

R/W

TYPE A

18+00 19+00 20+00 21+00 22+00 23+00 24+00

TYPE A

TLE

R/W

R/W

SLOPE INTERCEPT

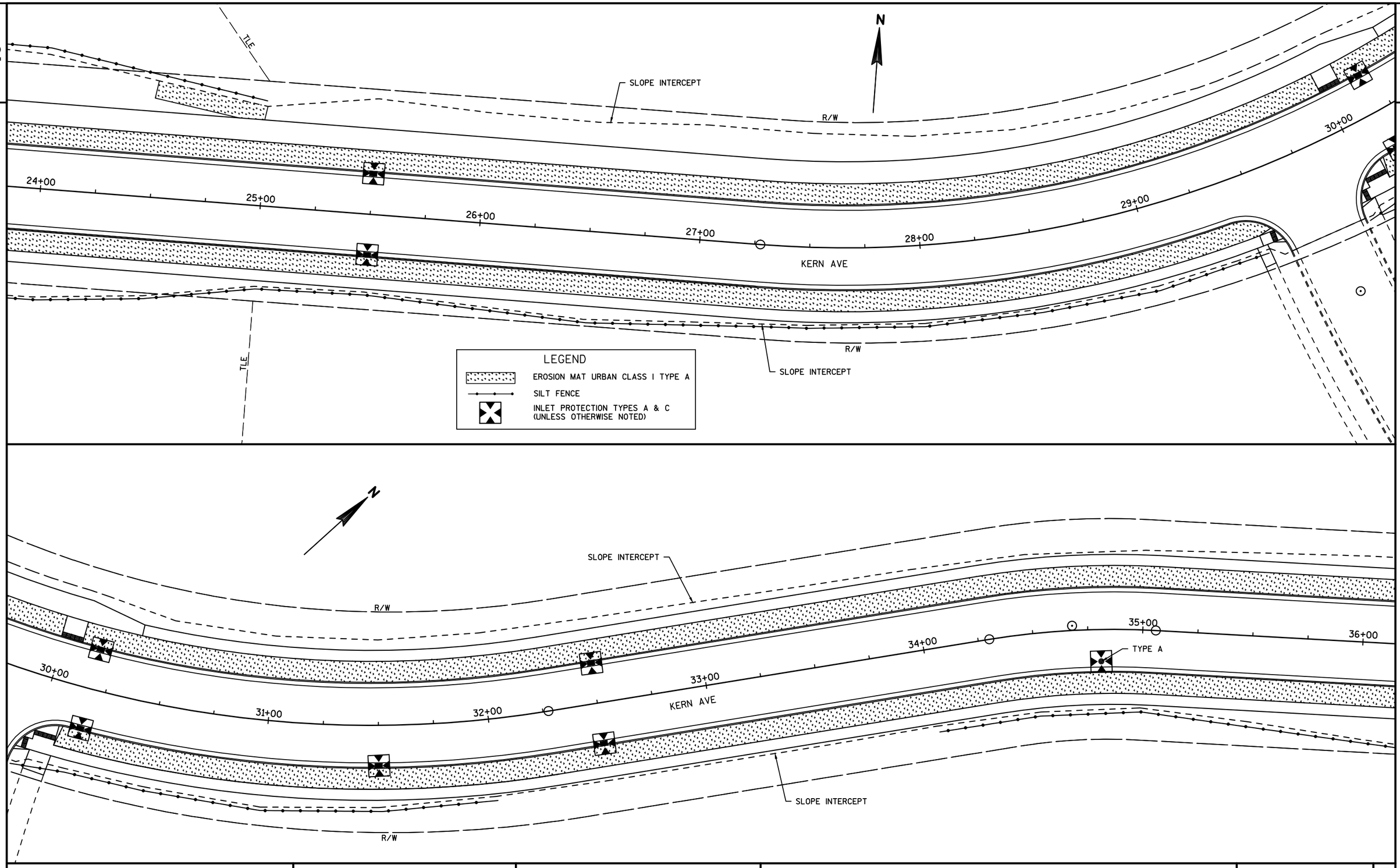
TLE

PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	EROSION CONTROL - KERN AVENUE	SHEET 20	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\SHEETSPLAN\022002_EC.DWG
LAYOUT NAME - 022004_EC

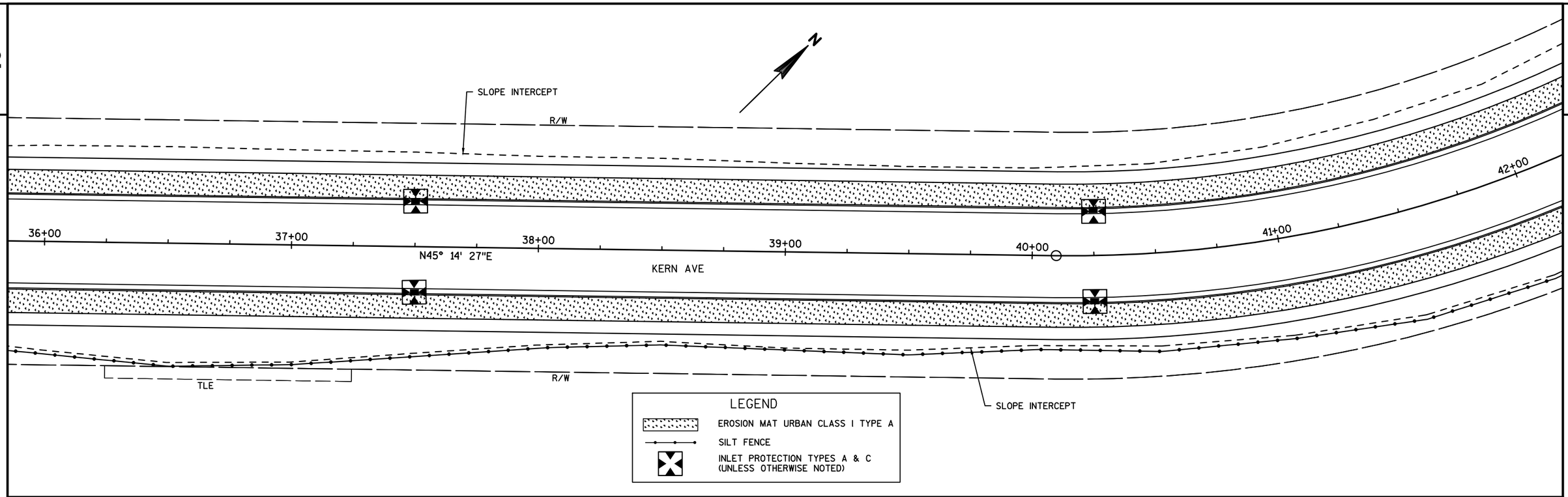
PLOT DATE : 10/17/2017 2:17 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

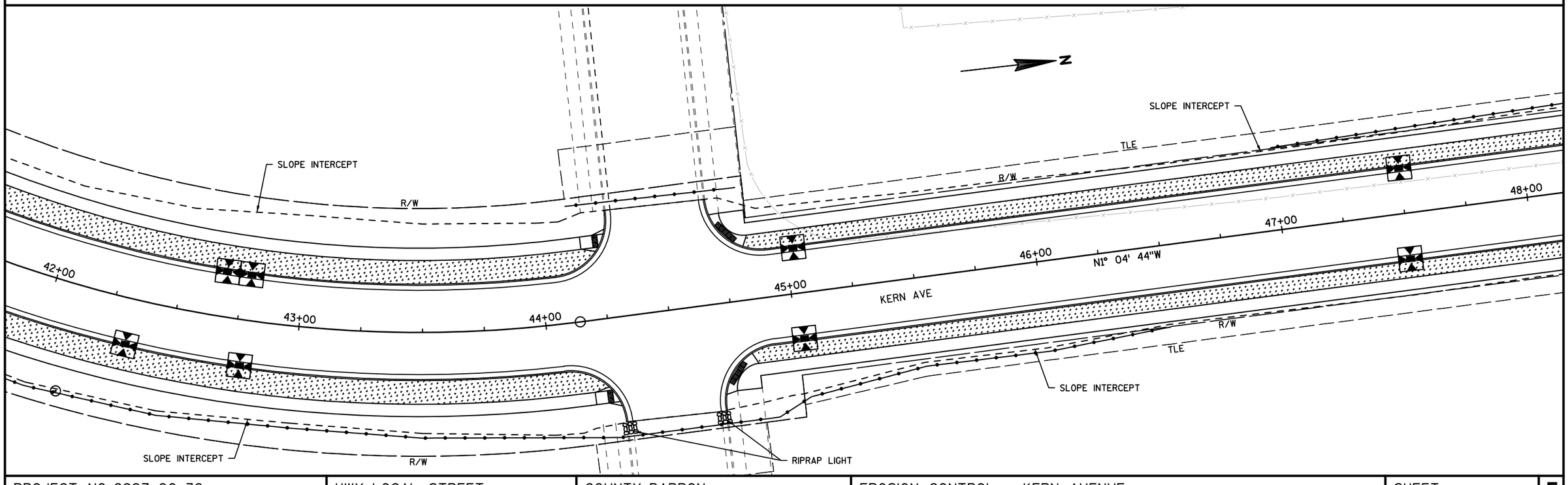
WISDOT/CADDS SHEET 44



PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	EROSION CONTROL - KERN AVENUE	SHEET 21	E

2





PROJECT NO:8997-00-38	HWY:LOCAL STREET	COUNTY:BARRON	EROSION CONTROL - KERN AVENUE	SHEET 22	E

2

N

SLOPE INTERCEPT

TLE

R/W

48+00 49+00 50+00 51+00 52+00 53+00 54+00

KERN AVE

R/W

TLE

SLOPE INTERCEPT

LEGEND

EROSION MAT URBAN CLASS I TYPE A

SILT FENCE

INLET PROTECTION TYPES A & C (UNLESS OTHERWISE NOTED)

N

TLE

R/W

EAST SOUTH ST

85+00

54+00 55+00 56+00 57+00 58+00 59+00

KERN AVE

R/W

TLE

86+00

NOTE:
UNDISTRIBUTED INLET PROTECTION TYPE C FOR EXISTING INLETS OUTSIDE PROJECT LIMITS.

PROJECT NO:8997-00-38	HWY:LOCAL STREET	COUNTY:BARRON	EROSION CONTROL - KERN AVENUE	SHEET 23	E

CONSTRUCT DIVERSION WEIR IN MANHOLE EX A10 TO DIRECT THE N MAIN STREET FLOW TO THE EAST ON SOUTH STREET, SEE CONSTRUCTION DETAIL

EX A10 — STA 60+21, 11.2' LT — CONNECT TO EXISTING STORM STRUCTURE (6' MANHOLE)

REMOVING STORM SEWER (30-INCH)

A9.1 — STA 61+53, 21.5' LT — INLETS 2x3-H

A9 — STA 61+53, 15.0' LT — MANHOLES 5-J

REMOVING STORM SEWER (30-INCH)

REMOVING STORM SEWER (12-INCH)

A8.1 — STA 64+25, 18.5' LT — INLETS 2x3-H

A8 — STA 64+25, 12.0' LT — MANHOLES 5-J

A8.2 — STA 64+40, 18.5' LT — INLETS 2x3-H

REMOVING STORM SEWER (30-INCH)

A7.1 — STA 65+40, 31.9' LT — CONNECT TO EXISTING STORM PIPE (12" RCP)

A7 — STA 65+40, 12.0' LT — MANHOLES 5-J

REMOVING STORM SEWER (12-INCH)

A9.2 — STA 61+37, 18.5' RT — INLETS 2x3-H

A9.3 — STA 61+53, 27.9' RT — CONNECT TO EXISTING STORM PIPE (12" RCP)

REMOVING STORM SEWER (12-INCH)

A8.3 — STA 64+25, 18.5' RT — INLETS 2x3-H

A8.4 — STA 64+40, 18.5' RT — INLETS 2x3-H

S MAIN ST

E SOUTH ST

60+00 61+00 62+00 63+00 64+00 65+00 66+00

ROCK

N

1 REMOVE EXISTING STORM SEWER STRUCTURE (MANHOLE OR INLET)

WISCONSIN BRIAN D. LAMBERT E-40437 EAU CLAIRE WI PROFESSIONAL ENGINEER

1135 1130 1125 1120 1115 1110 1105 1100

EX A10 — A9 — A8 — A7

1126.18 — EXISTING GROUND — 1124.74 — 1125.24

PROPOSED GROUND

1119.80 — SSPRC CLASS III 36-INCH @ 0.30% — 1119.40 — SSPRC CLASS III 36-INCH @ 0.32% — 1118.54 — SSPRC CLASS III 36-INCH @ 0.28% — 1118.22 — SSPRC CLASS III 36-INCH @ 0.30%

A9.3 — A9 — A9.2 — A9 — A9.1

1126.18 — 1126.24 — 1126.18 — 1126.09

1122.56 — 1121.86 — 1122.77 — 1122.40 — 1122.52 — 1122.45

SSPRC CLASS III 12-INCH @ 1.63% — SSPRC CLASS III 12-INCH @ 1.00% — SSPRC CLASS III 12-INCH @ 1.00%

A8.4 — A8.3 — A8 — A8.1 — A8.2

1124.64 — 1124.63 — 1124.74 — 1124.63 — 1124.64

1121.10 — 1120.95 — 1120.70 — 1120.39 — 1120.71 — 1120.46 — 1120.39 — 1120.86

SSPRC CLASS III 12-INCH @ 1.00% — SSPRC CLASS III 15-INCH @ 1.00% — SSPRC CLASS III 15-INCH @ 1.00% — SSPRC CLASS III 12-INCH @ 1.00%

A7.1 — A7

1125.24 — 1122.43 — 1121.80

SSPRC CLASS IV 12-INCH @ 3.16%

PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	STORM SEWER - EAST SOUTH STREET	SHEET 24	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\SHEETSPLAN\022501_SS SOUTH ST.DWG
LAYOUT NAME - 01 0225_ss

PLOT DATE : 10/18/2017 1:06 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41

VER (12-INCH)

REMOVING STORM SEWER (30-INCH)

A6.1 STA 66+29, 34.0' LT
STORM SEWER PLUG
FOR FUTURE CONNECTION

A6 STA 66+28, 12.0' LT
MANHOLES 5-J

REMOVING STORM SEWER (30-INCH)

A5.1 STA 67+06, 18.5' LT
INLETS 2x3-H

A5 STA 67+16, 12.0' LT
MANHOLES 6-J

STA 68+90, 36.9' LT
CONNECT TO EXISTING
STORM PIPE (24" RCP) A4.1

REMOVING STORM SEWER (24-INCH)

STA 68+90, 12.0' LT
MANHOLES 8-J A4

MANWARING AVE

REMOVING STORM SEWER (12-INCH)

A3 STA 69+24, 12.0' LT
MANHOLES 8-J

A3.1 STA 69+49, 18.5' LT
INLETS 2x3-H

REMOVING STORM SEWER (15-INCH)

N

66+00 67+00 68+00 69+00 70+00 71+00 72+00

E SOUTH ST

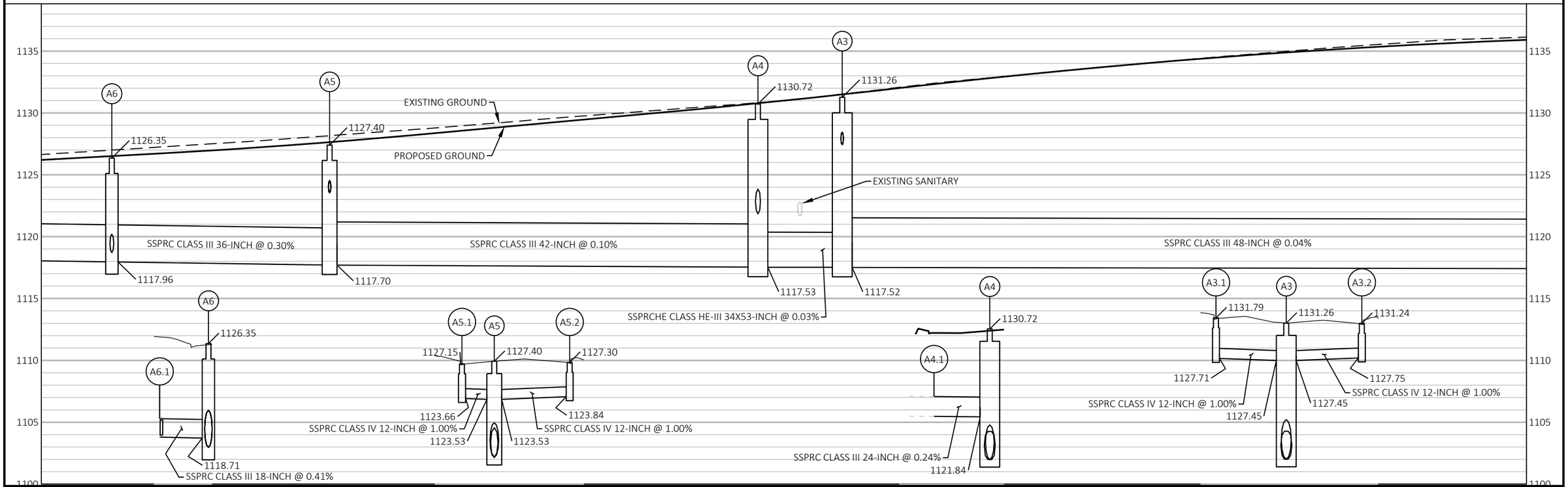
VERIFY LOCATION OF EXIST 8" PVC
STORM LATERAL WHICH APPEARS
INCONSISTENT ON RECORD PLANS

A5.2 STA 67+16, 18.5' RT
INLETS 2x3-H

REMOVING STORM SEWER (12-INCH)

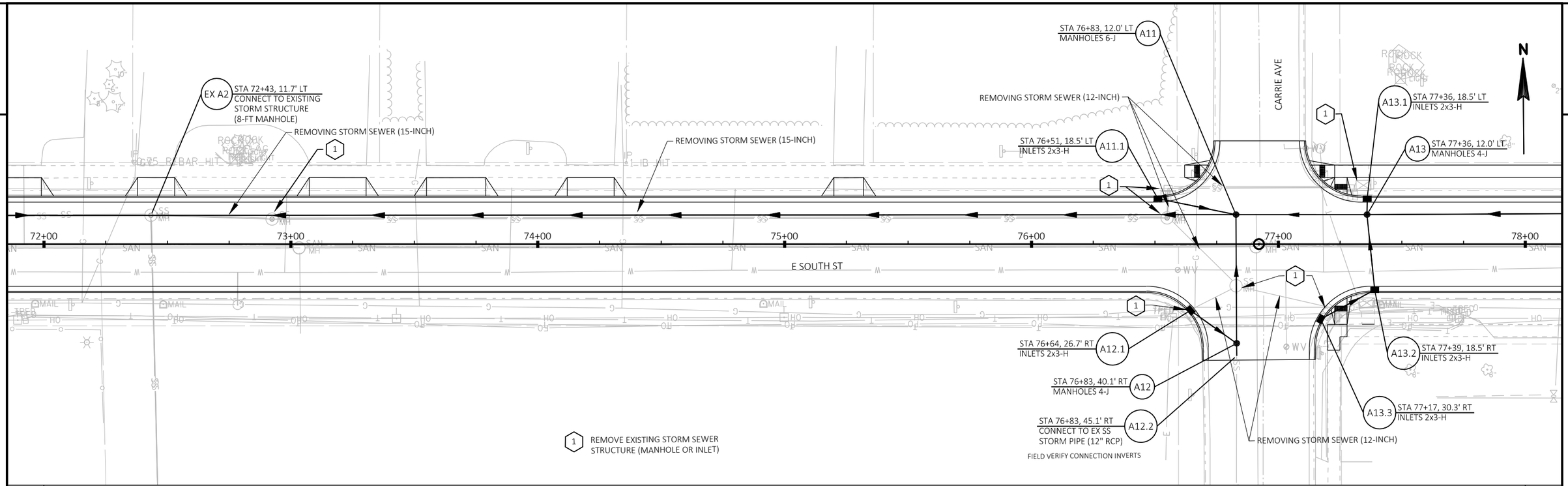
A3.2 STA 69+24, 18.5' RT
INLETS 2x3-H

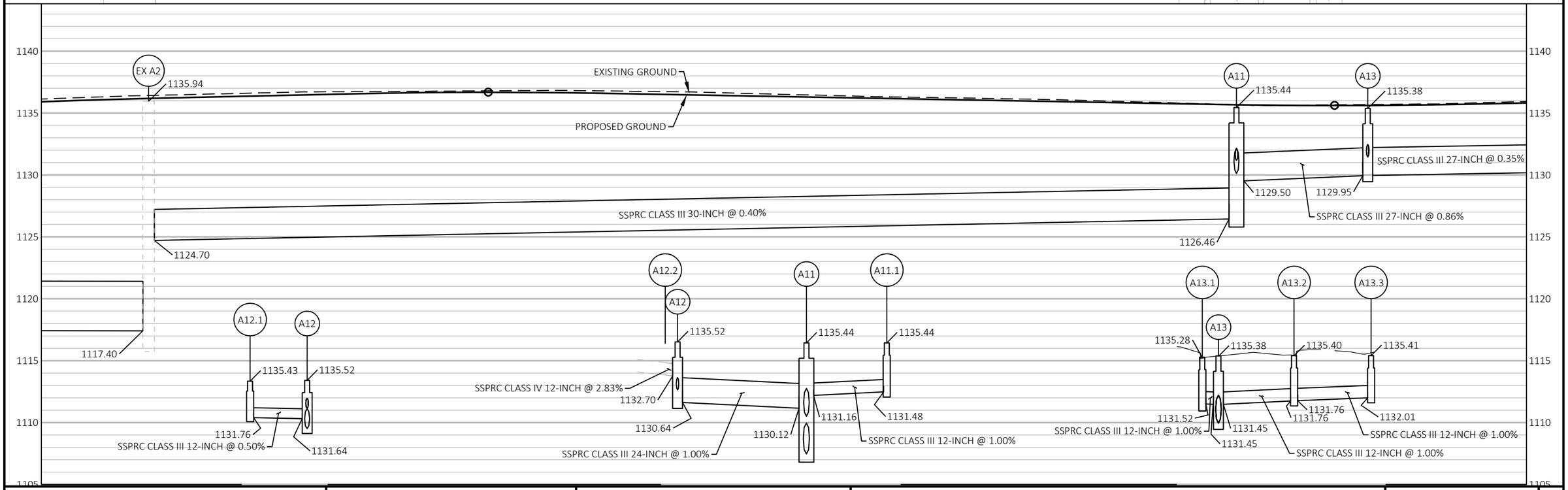
1 REMOVE EXISTING STORM SEWER
STRUCTURE (MANHOLE OR INLET)



PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	STORM SEWER - EAST SOUTH STREET	SHEET 25 E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\SHEETSPLAN\022501_SS SOUTH ST.DWG
LAYOUT NAME - 02 0225_ss
PLOT DATE : 10/17/2017 2:06 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41





PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	STORM SEWER - EAST SOUTH STREET	SHEET 26	E

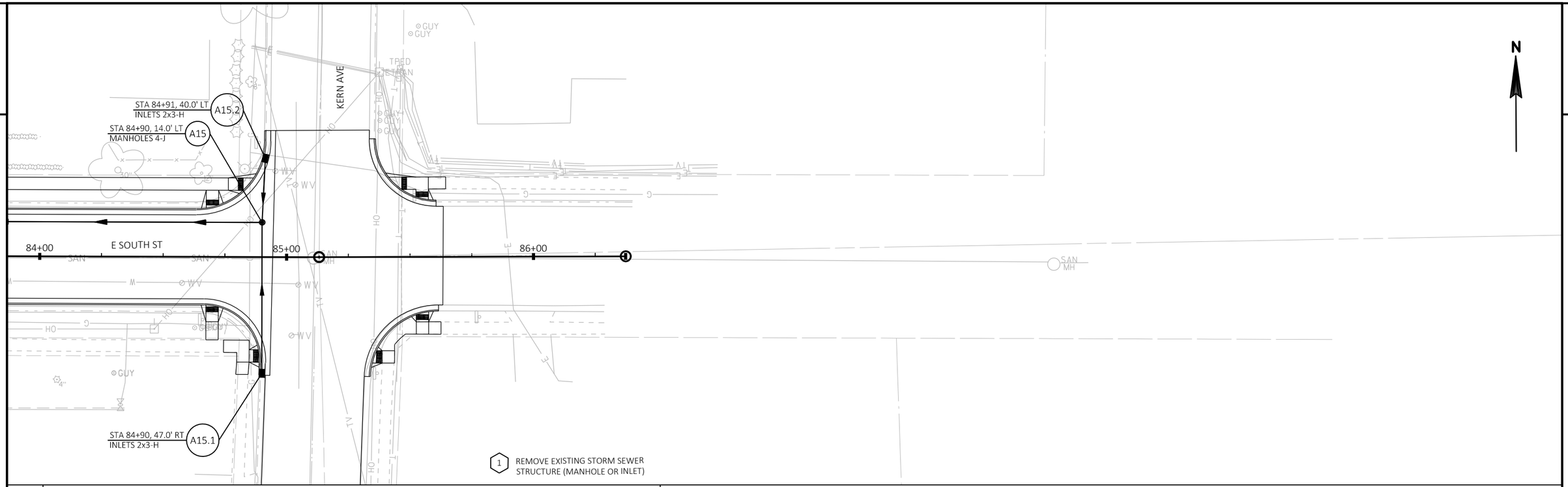
STA 81+40, 18.5' LT
INLETS 2x3-H
A14.1
STA 81+34, 14.0' LT
MANHOLES 4-J
A14
N
78+00
79+00
E SOUTH ST
80+00
81+00
82+00
83+00
84+00
A14.2
STA 81+34, 18.5' RT
INLETS 2x3-H
1 REMOVE EXISTING STORM SEWER STRUCTURE (MANHOLE OR INLET)

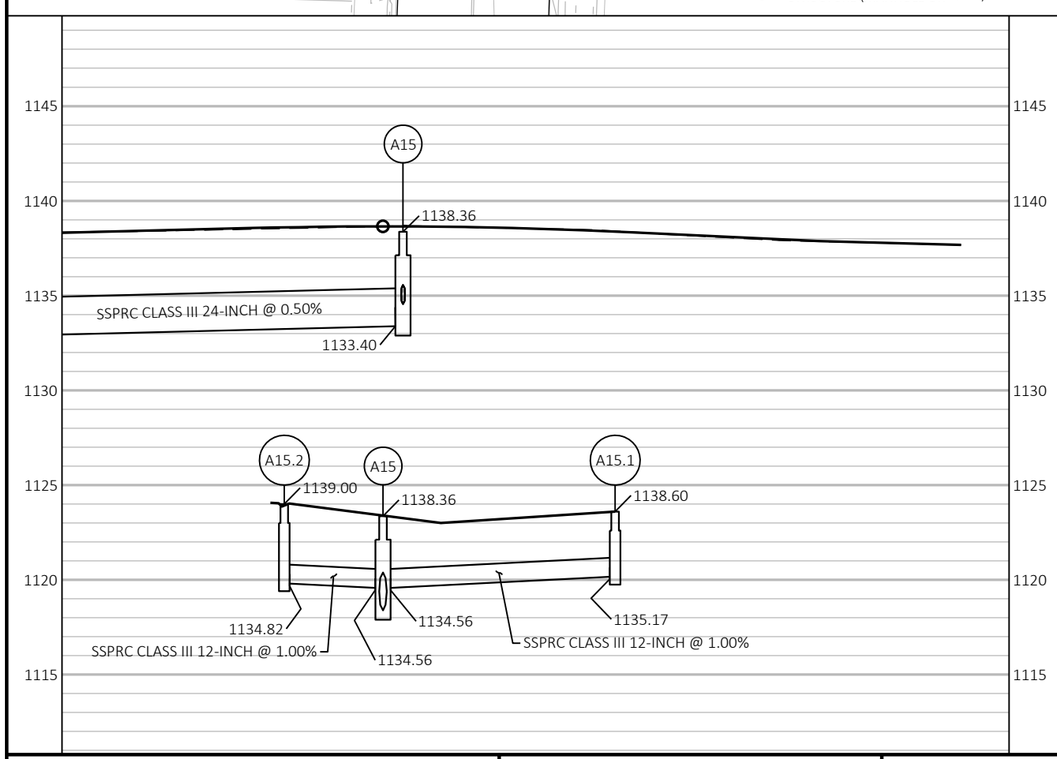
1145
1140
1135
1130
1125
1120
1115
1110
A14
1136.87
1131.37
SSPRC CLASS III 27-INCH @ 0.35%
SSPRC CLASS III 24-INCH @ 0.50%
A14.1
A14
A14.2
1136.84
1136.87
1136.94
1132.82
1132.94
SSPRC CLASS III 12-INCH @ 1.00%
SSPRC CLASS III 12-INCH @ 1.00%
1132.62
1132.75

PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	STORM SEWER - EAST SOUTH STREET	SHEET 27	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\SHEETSPLAN\022501_SS SOUTH ST.DWG
LAYOUT NAME - 04 0225_ss
PLOT DATE : 10/19/2017 9:05 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

2





PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	STORM SEWER - EAST SOUTH STREET	SHEET 28	E

2

N

11+00 12+00 13+00 14+00 15+00 16+00

DESIGN SPEED = 60 mi/h
STA 10+00.00

16+00.00

STA 15+41, 38.7' RT
CONNECT TO EX SS
(12" RCP)
EX E1

STA 15+42, 40.5' RT
INLETS 2x3-H
REMOVING STORM SEWER (12-INCH)
E2

STA 15+46, 48.1' RT
MANHOLES 3-J
E3

STA 15+41, 56.0' RT
CONNECT TO EX SS
(12" RCP)
EX E4

1140
1135
1130
1125
1120
1115
1110
1105

E3
1123.58
EX E4
EX E1
E3
E2
1123.58
1123.61
SSPRC CLASS IV 12-INCH @ 0.42%
1120.63
1120.50
1120.50
SSPRC CLASS IV 12-INCH @ 0.78%
SSPRC CLASS IV 12-INCH @ 0.63%
1120.56
1120.56

PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	STORM SEWER - KERN AVENUE	SHEET 29	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\SHEETSPLAN\022502_SS_KERN AVE.DWG
LAYOUT NAME - 06 0225_ss
PLOT DATE : 10/23/2017 12:30 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41

STA 18+53, 46.6' LT
CONNECT TO EXISTING
STORM PIPE (18" RCP)
EX D6

STA 18+53, 33.5' LT
INLETS 2x3-H
D7

EX D5
STA 19+16, 81.2' LT
CONNECT TO EXISTING
STORM STRUCTURE
(MANHOLE)

D4
STA 19+17, 20.4' LT
MANHOLES 4-J

PIPE UNDERDRAIN UNPERFORATED

STA 21+00, 20.0' LT
INLETS 2x3-H
B4.1

STA 21+86, 18.5' LT
INLETS 2x3-H
B3.1

REMOVING STORM SEWER
(18-INCH)

STA 18+53, 29.5' LT
CONNECT TO EXISTING
STORM PIPE (18" RCP)
EX D8

1

N

22+00.00

16+00 17+00 18+00 19+00 20+00 21+00 22+00

KERN AVE

STA 18+52, 1.0' RT
CONNECT TO EXISTING
STORM STRUCTURE
(RECTANGULAR INLET)
EX D9

B4
STA 21+00, 20.0' RT
INLETS 4-H

PIPE UNDERDRAIN WRAPPED 6-INCH

REMOVING STORM SEWER (18-INCH)

STA 20+80, 27.3' RT
MANHOLES 4-J
D3

CONNECT UNDERDRAIN
TO D3
INV 1116.50

STA 21+86, 18.5' RT
INLETS 5-H
B3

16+00.00

STA 18+53, 33.5' RT
INLETS 2x3-H
D10

1 REMOVE EXISTING STORM SEWER STRUCTURE (MANHOLE OR INLET)

PROPOSED GROUND
EXISTING GROUND

EX D6 EX D8 D7 1121.23 SSPRC CLASS IV 18-INCH @ 0.25% 1117.65

EX D9 D10 1121.18 1121.21 1118.03 1118.10 SSPRC CLASS IV 18-INCH @ 0.23%

B4 1120.57 B3 1120.90 SSPRC CLASS IV 18-INCH @ 0.25% 1117.58 1117.37

EX D5 D4 1121.19 D3 1121.30 SSPRC CLASS IV 18-INCH @ 0.12% 1116.11 1116.04 1116.31 SSPRC CLASS III 18-INCH @ 0.12% SSPRC CLASS III 15-INCH @ 0.12%

B4.1 1120.69 B4 1120.57 1117.99 1117.80 SSPRC CLASS IV 15-INCH @ 0.50%

B3 B3.1 1120.90 1120.90 1118.20 1118.02 SSPRC CLASS IV 12-INCH @ 0.50% SSPRC CLASS III 24-INCH @ 0.29% 1117.02

1125 1120 1115 1110 1105 1100 1095 1090

PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	STORM SEWER - KERN AVENUE	SHEET 30	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\SHEETSPLAN\022502_SS_KERN AVE.DWG
LAYOUT NAME - 07 0225_ss
PLOT DATE : 10/23/2017 12:30 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

28+00.00

B3.1 STA 21+86, 18.5' LT
INLETS 2x3-H

B5.1 STA 25+50, 18.5' LT
INLETS 2x3-H

22+00 23+00 24+00 25+00 26+00 27+00 28+00

KERN AVE

PIPE UNDERDRAIN WRAPPED 6-INCH

B3 STA 21+86, 18.5' RT
INLETS 5-H

B5 STA 25+50, 18.5' RT
INLETS 4-H

22+00.00

1140 1135 1130 1125 1120 1115 1110 1105

EXISTING GROUND

PROPOSED GROUND

B5

1126.25

SSPRC CLASS IV 18-INCH @ 0.89%

1120.60

B5.1

B5

1126.25

1126.25

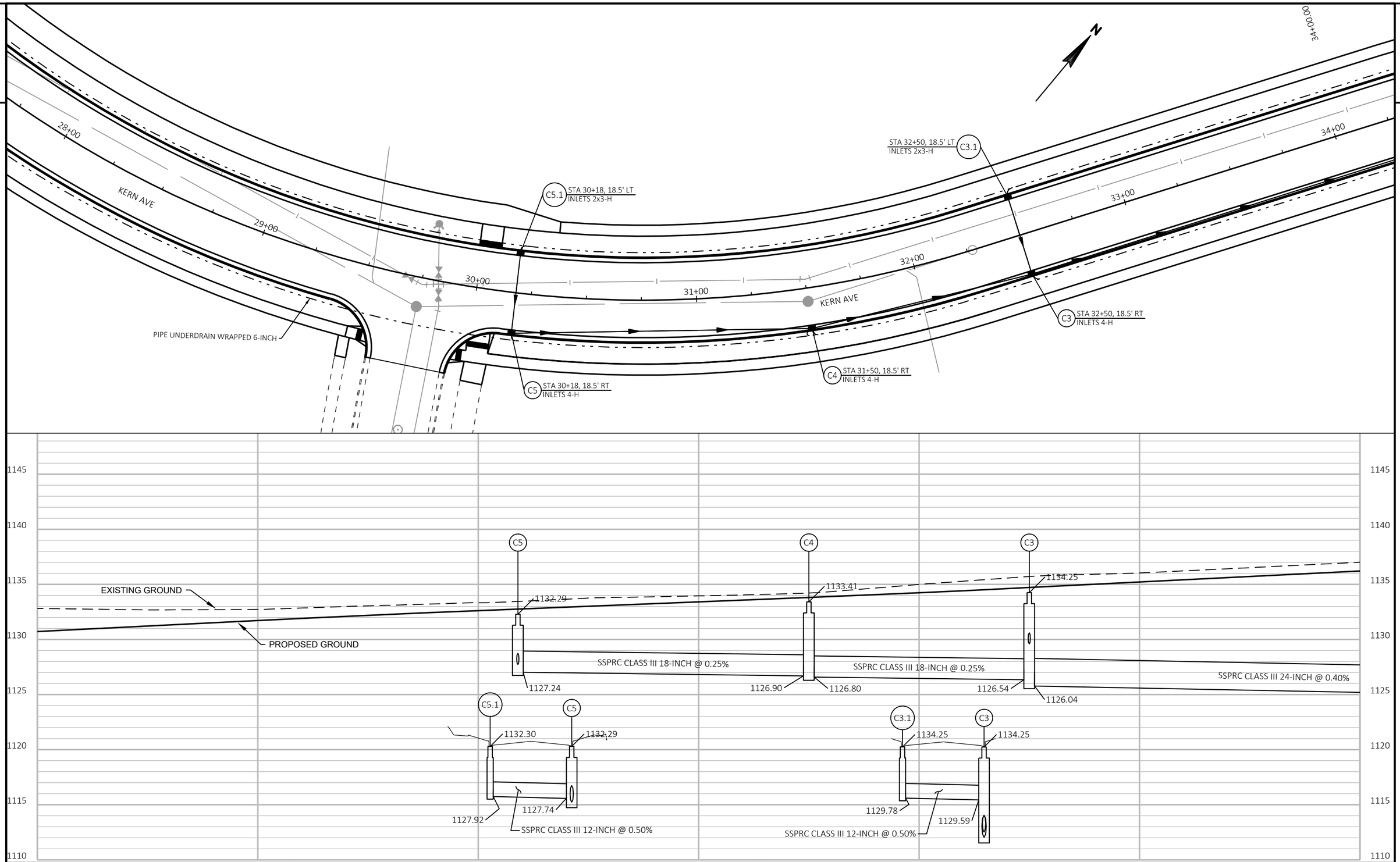
1121.80

SSPRC CLASS IV 12-INCH @ 0.50%

1121.61

PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	STORM SEWER - KERN AVENUE	SHEET 31	E

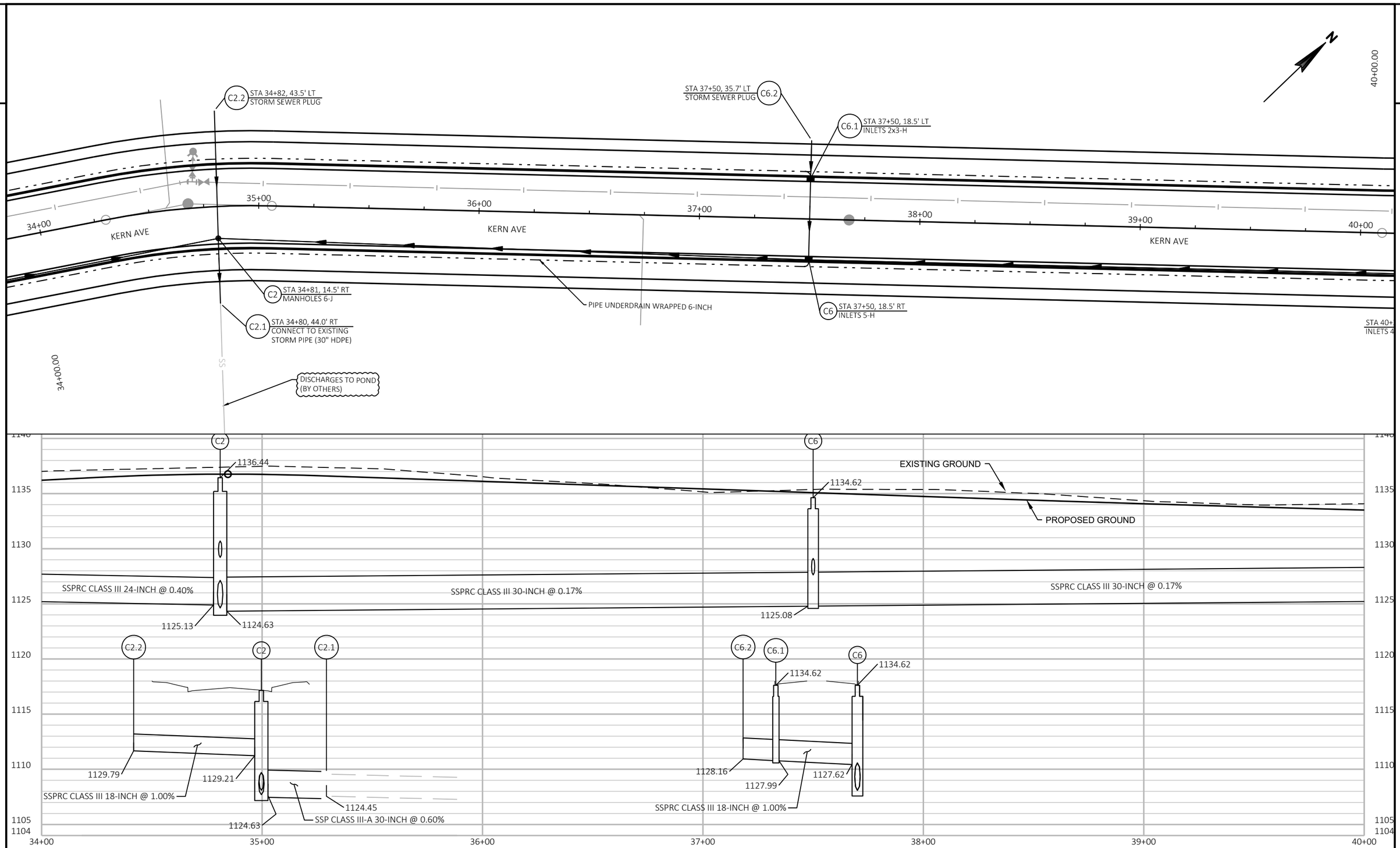
FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\SHEETSPLAN\022502_SS_KERN AVE.DWG
LAYOUT NAME - 08 0225_ss
PLOT DATE : 10/23/2017 12:30 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41



PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	STORM SEWER - KERN AVENUE	SHEET 32	E

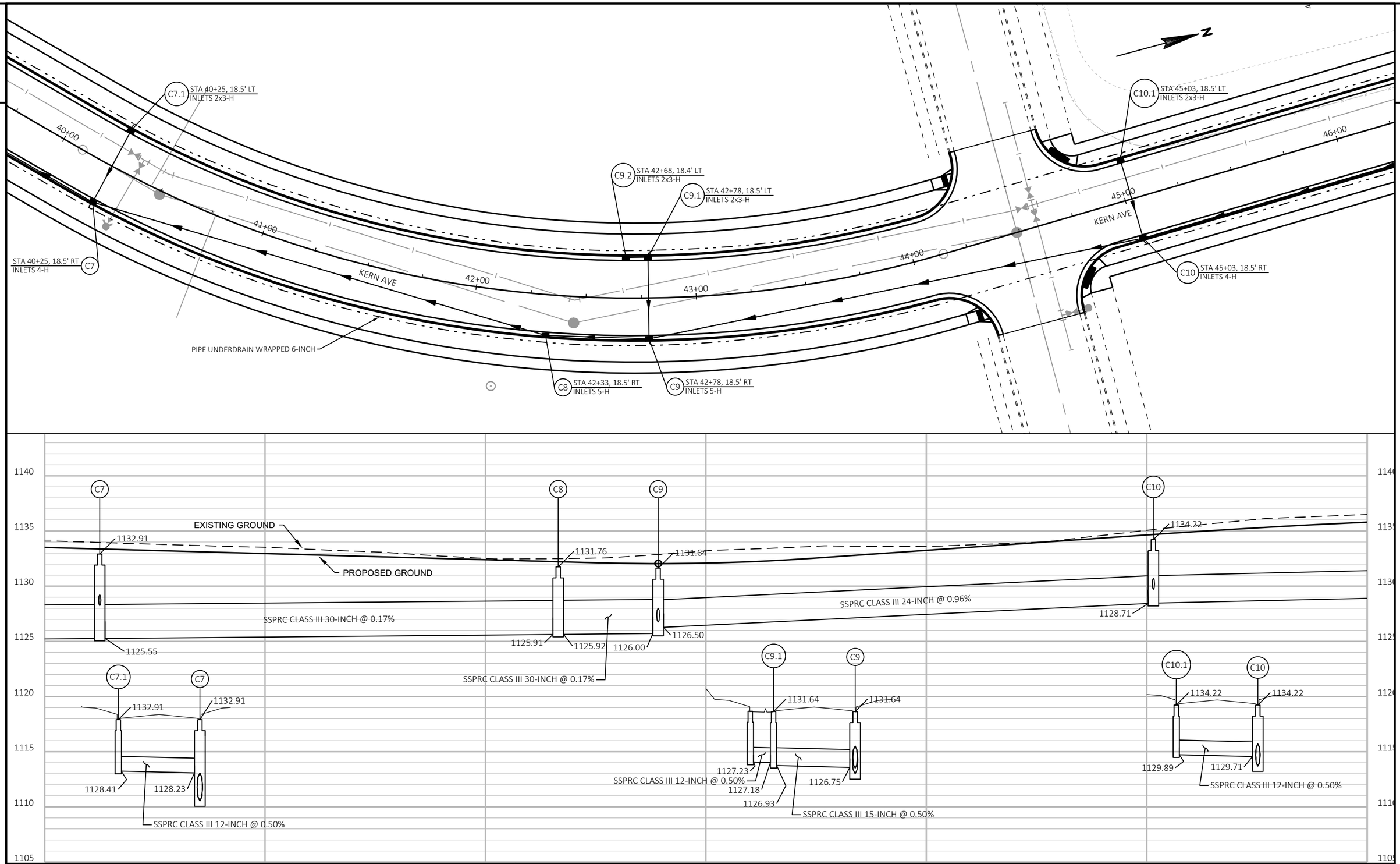
FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\SHEETSPLAN\022502_SS_KERN AVE.DWG
LAYOUT NAME - 09 0225_ss
PLOT DATE : 10/23/2017 12:30 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

2



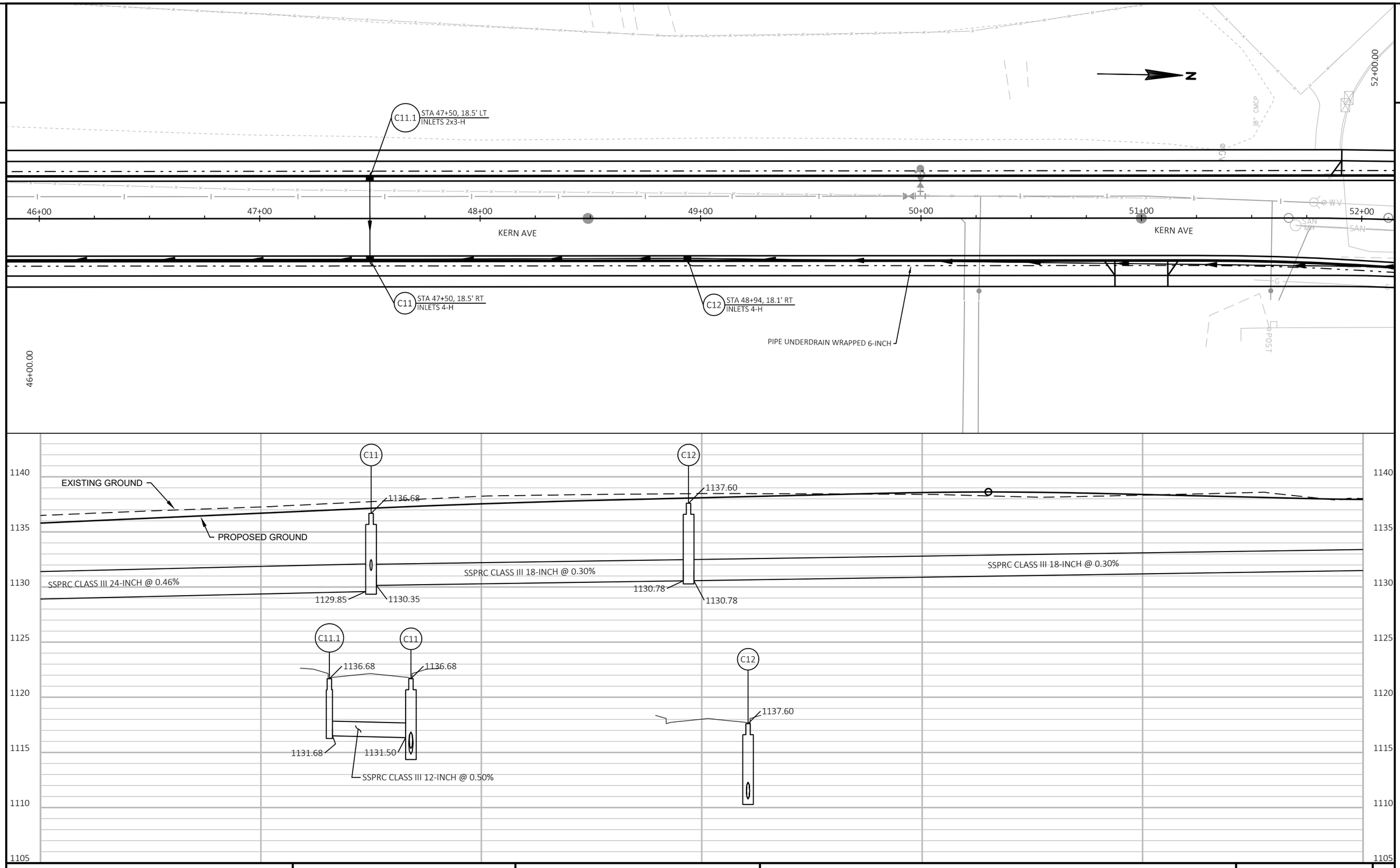
PROJECT NO: 8997-00-38	HWY: LOCAL ROAD	COUNTY: BARRON	STORM SEWER - KERN AVENUE	SHEET 33	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\SHEETSPLAN\022502_SS_KERN AVE.DWG
LAYOUT NAME - 10 0225_ss
PLOT DATE : 10/23/2017 12:30 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1 IN:40 FT



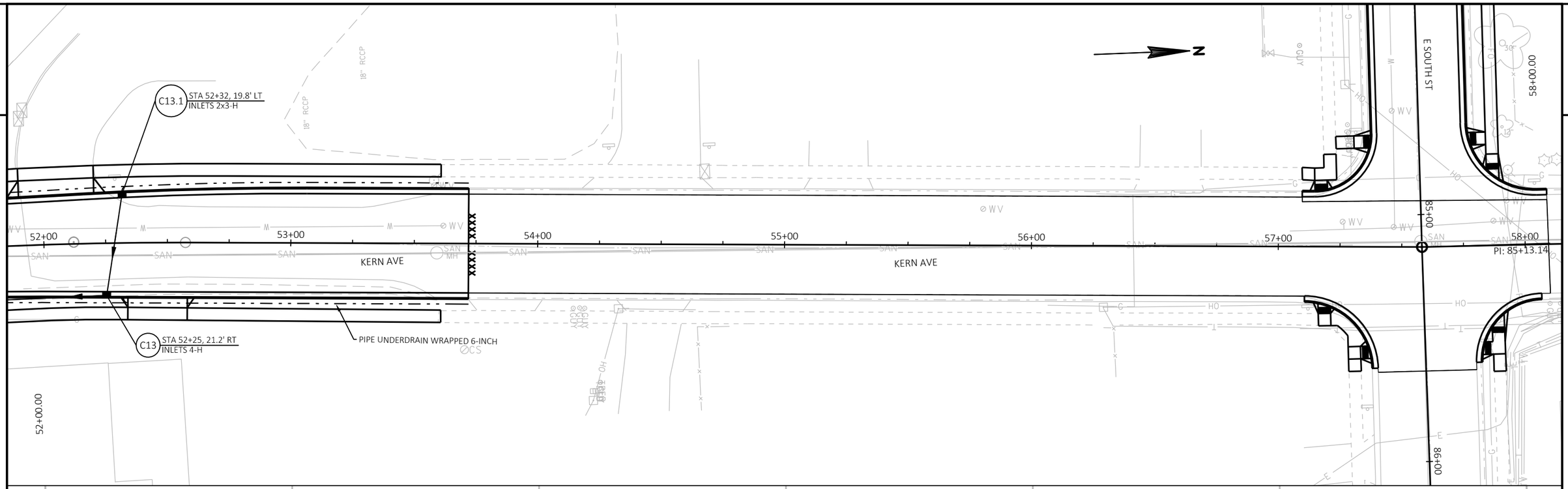
PROJECT NO: 8997-00-38	HWY: LOCAL ROAD	COUNTY: BARRON	STORM SEWER - KERN AVENUE	SHEET 34	E

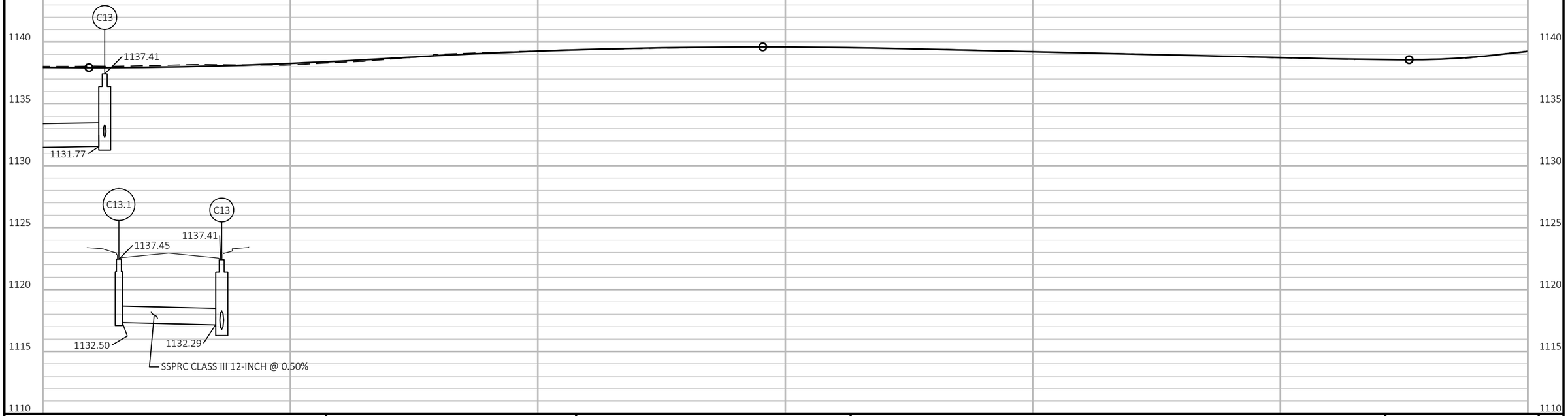
FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\SHEETSPLAN\022502_SS_KERN AVE.DWG
LAYOUT NAME - 11 0225_ss
PLOT DATE : 10/23/2017 12:31 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41



PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	STORM SEWER - KERN AVENUE	SHEET 35 E

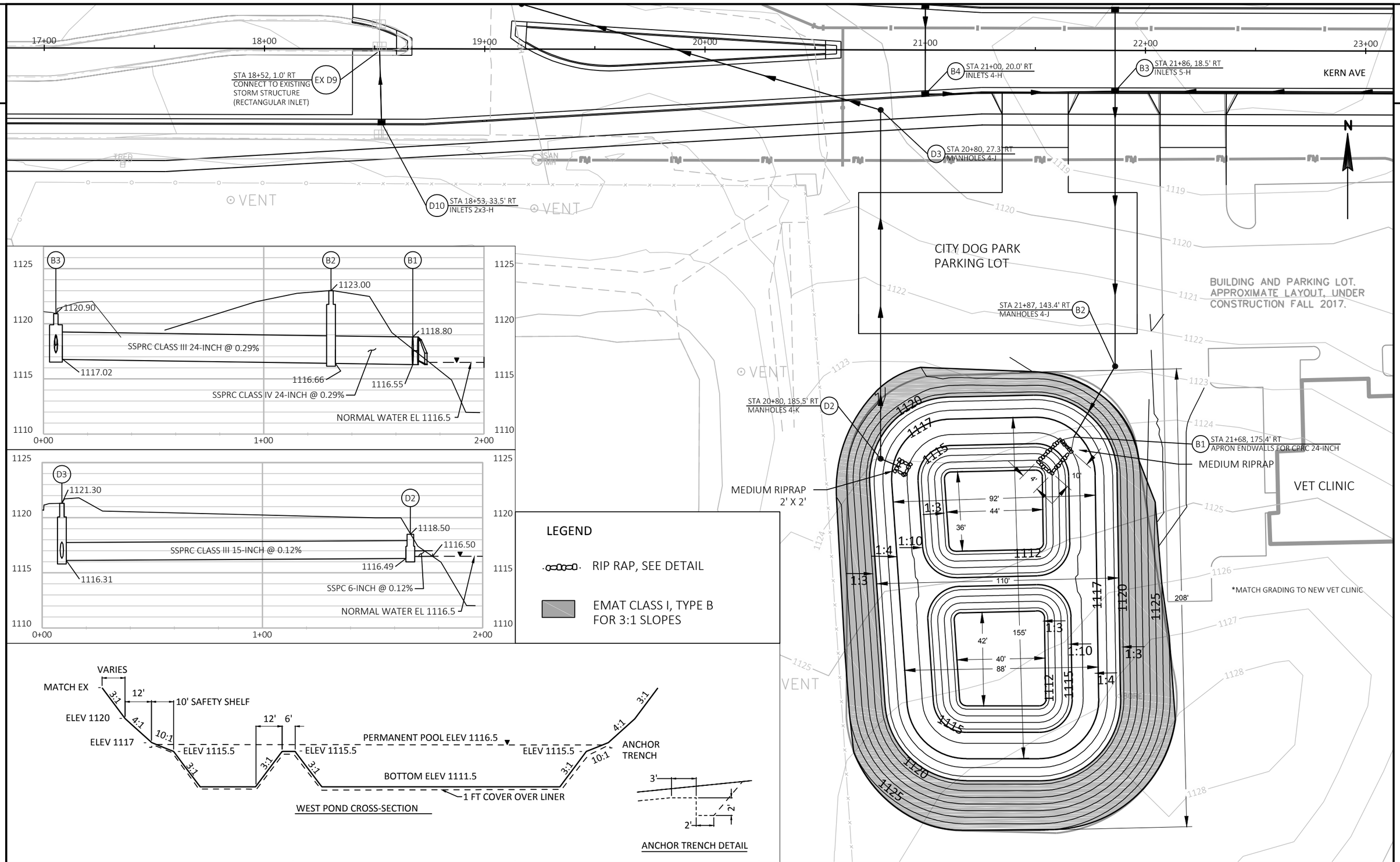
FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\SHEETSPLAN\022502_SS_KERN AVE.DWG
LAYOUT NAME - 12 0225_ss
PLOT DATE : 12/7/2017 2:07 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41





PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	STORM SEWER - KERN AVENUE	SHEET 36	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\SHEETSPLAN\022502_SS_KERN AVE.DWG
LAYOUT NAME - 13 0225_ss
PLOT DATE : 12/7/2017 2:08 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1 IN:40 FT



LEGEND

RIP RAP, SEE DETAIL

EMAT CLASS I, TYPE B
FOR 3:1 SLOPES

WEST POND CROSS-SECTION

ANCHOR TRENCH DETAIL

PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	STORM SEWER - WEST POND	SHEET 37	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\SHEETSPLAN\022503_SS WEST POND_KERN AVE.DWG
LAYOUT NAME - 13 West Pond

PLOT DATE : 10/20/2017 4:23 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

GORDY'S MARKET

N

EXISTING HYDRANT TO REMAIN

1–ADJUST GATE VALVE BOX

SLOPE INTERCEPT

R/W

EXISTING 8–INCH WATER MAIN (2017)

16+00 17+00 18+00 19+00 20+00 21+00 22+00

LEMLER RD

KERN AVE

EXISTING 8–INCH SANITARY SEWER

1–ADJUST MANHOLE CASTING (MAY BE IN SIDEWALK)

SLOPE INTERCEPT

1–ADJUST MANHOLE CASTING COORDINATE WITH CITY ON SALVAGING OF TIMBER FRAME

DOG PARK

EXISTING 1" WATER SERVICE (2017)
1–ADJUST EXISTING CURB BOX
VERIFY DEPTH AND PROVIDE
7 SY INSULATION
WATER SERVICE UNDER STORM SEWER

PRIVATE SMALL DIAMETER FORCEMAIN (2017)
VERIFY LOCATION

WISCONSIN
BRYAN W. CUNNINGHAM
E-35947
CUMBERLAND
WI
PROFESSIONAL ENGINEER
10/20/17

APPLIES TO SANITARY AND WATER PAGES

1135 1130 1125 1120 1115 1110 1105

-0.50%

FINISHED PROFILE

EXISTING PROFILE

8.0' TYPICAL

EXISTING 8" SANITARY SEWER (SOUTH SIDE)

EXISTING 8 INCH WATER MAIN (2017)

16+00 +20 +40 +60 +80 17+00 +20 +40 +60 +80 18+00 +20 +40 +60 +80 19+00 +20 +40 +60 +80 20+00 +20 +40 +60 +80 21+00 +20 +40 +60 +80 22+00

| | | |

2

SLOPE INTERCEPT

STA 24+25.00, HYDRANT
INSTALLED 2017
1–ADJUST GATE VALVE BOX

STA 24+26.00, 10' LT
1–CONNECT TO EXISTING WATER MAIN
1–ADJUST GATE VALVE BOX

STA 25+25.00 LT
1–8"x6" WYE
57 LF – 6" PVC SAN SERVICE
1–6" PVC PLUG
(SAN SERVICE OVER WM)

STA 27+24.18, 10.0' LT
1–8" 11¼ DEGREE BEND

N

R/W

EXISTING 8–INCH
WATER MAIN (2017)

WATER MAIN UNDER
STORM SEWER
PROVIDE 7 SY INSULATION

PROPOSED 8–INCH
WATER MAIN (TYP)

PC: 27+27.56

22+00 23+00 24+00 25+00 26+00 27+00 28+00

10'

BORE

3

2

KERN AVE

PROPOSED 8–INCH
SANITARY SEWER (TYP)

FM FM FM FM

R/W

STA 25+10.00 RT
1–8"x6" WYE
43 LF – 6" PVC SAN SERVICE
1–6" PVC PLUG

PRIVATE SMALL DIAMETER
FORCEMAIN (2017)
VERIFY LOCATION

EXISTING 1 ½" WATER SERVICE (2017)
1–ADJUST EXISTING CURB BOX
CONFIRM SERVICE DEPTH AT STORM SEWER
CROSSING TO ENSURE >3' OF SEPARATION

SLOPE INTERCEPT

STA 24+90.00 RT
1–1 ½" CORPORATION STOP
53 LF – 1 ½" COPPER WATER SERVICE
1–1 ½" CURB STOP & BOX, 33' RT
PROVIDE 7 SY INSULATION
(SERVICE LINES UNDER STORM SEWER)

STA 26+47.00
8"X 6" TEE
1–6" GV & BOX
53 LF – 6" WATER MAIN
1–6" PLUG

STA 26+55.00 RT
1–8"x6" WYE
43 LF – 6" PVC SAN SERVICE
1–6" PVC PLUG

1135 1130 1125 1120 1115 1110 1108

STA=25+00.00
TC=1125.42

STA=27+25.00
TC=1129.91

FINISHED PROFILE

EXISTING PROFILE

0.75%

2.50%

1.00%

8.0' MINIMUM

PROPOSED 8 INCH WATER MAIN

225 LF 8" PVC SDR 35 @ 0.40%

INV=1118.76 (E)

INV=1117.87 (W)
INV=1117.79 (E)

EXISTING 8 INCH WATER MAIN (2017)

CONNECT TO EXISTING WATER MAIN

22+00 +20 +40 +60 +80 23+00 +20 +40 +60 +80 24+00 +20 +40 +60 +80 25+00 +20 +40 +60 +80 26+00 +20 +40 +60 +80 27+00 +20 +40 +60 +80 28+00

| | | |

2

STA 29+52.00 RT
1–8"x6" WYE
66 LF – 6" PVC SAN SERVICE
WITH RISER
STA 29+69.00 LT
1–6" PVC PLUG
(SAN SERVICE UNDER WM)

STA 29+75.00, 3.0' RT
1–8" 22½ DEGREE BEND
1–8" GV & BOX (W)

STA 29+78.00
25 LF – 8" WATER MAIN
1–8"x6" REDUCER
2 LF – 6" WATER MAIN
1–SALVAGED HYDRANT, 25.5' LT

STA 29+82.70, 1.5' RT
1–8"x8" CROSS
2–8" GV & BOX (N&S)

WATER MAIN UNDER
STORM SEWER
MAINTAIN 18" MIN SEPARATION
PROVIDE 7 SY INSULATION

STA 31+50.00, 4.1' LT
1–8" 22½ DEGREE BEND

PROPOSED 8–INCH
WATER MAIN (TYP)

PROPOSED 8–INCH
SANITARY SEWER (TYP)

28+00
29+00
30+00
31+00
32+00
33+00
34+00
10'
PT: 33+27.5
PC: 34+30.1
R/W
R/W

13 LF – 10" SAN SEW @ 0.28%

STA 29+75, 26' RT
1–CONNECT TO EXIST
10" PVC SANITARY SEWER (2017)
FIELD VERIFY LOCATION AND
INVERT ELEVATION = 1116.58

MOON LAKE DRIVE (2017)

STA 29+84.60, 11.3' RT
1–8" 11¼ DEGREE BEND

STA 29+84.40, 35.1' RT
1–CONNECT TO EXISTING 8" WATER MAIN
1–SALVAGE EXISTING HYDRANT
FIELD VERIFY LOCATION

SLOPE INTERCEPT

STA 32+00.00 RT
1–8"x6" WYE
53 LF – 6" PVC SAN SERVICE
WITH RISER
1–6" PVC PLUG
(SAN SERVICE UNDER STM SEW)

N

STA=29+74.86
TC=1132.08
13.32' RT

STA=31+50.00
TC=1133.64
6.10' RT

EXISTING PROFILE
FINISHED PROFILE
1.00%
0.80%
1.00%
8.0' MINIMUM
8 INCH WATER MAIN
STA 33+50
BEGIN TRANSITION OF WATER
MAIN DEPTH FROM 8' TO 9'

251 LF 8" PVC SDR 35 @ 0.40%
178 LF 8" PVC SDR 35 @ 0.40%
319 LF 8" PVC SDR 35 @ 0.40%

INV=1116.79 (NE)
INV=1116.62 (SE)
INV=1116.79 (W)
INV=1117.58 (NE)
INV=1117.50 (SW)

28+00	+20	+40	+60	+80	29+00	+20	+40	+60	+80	30+00	+20	+40	+60	+80	31+00	+20	+40	+60	+80	32+00	+20	+40	+60	+80	33+00	+20	+40	+60	+80	34+00
1132.81	1130.71	1132.76	1130.91	1132.71	1131.11	1132.68	1131.31	1132.70	1131.51	1132.73	1131.71	1132.85	1131.91	1132.99	1132.10	1133.11	1132.28	1133.23	1132.45	1133.34	1132.61	1133.47	1132.77	1133.66	1132.93	1133.81	1133.09	1133.87	1133.25	1133.96	1133.41	1134.04	1133.57	1134.15	1133.73	1134.34	1133.89	1134.66	1134.06	1134.99	1134.24	1135.29	1134.42	1135.57	1134.61	1135.81	1134.81	1135.92	1135.01	1136.03	1135.21	1136.22	1135.41	1136.41	1135.61	1136.61	1135.81	1136.81	1136.01	1137.01	1136.21

PROJECT NO: 8997–00–38	HWY: LOCAL STREET	COUNTY: BARRON	SANITARY SEWER AND WATER MAIN	SHEET	E

STA 34+67.00, 12.4' LT
1–8" 11 DEGREE BEND
(OR DEFLECT WM IF APPLICABLE)

STA 34+63.00 LT
1–8"x6" WYE
55 LF – 6" PVC SAN SERVICE
WITH RISER
1–6" PVC PLUG

STA 34+72.00
1–8"x8" TEE
2–8" GV & BOX
12 LF – 8" WATER MAIN
1–8"x6" REDUCER
2 LF – 6" WATER MAIN
1–HYDRANT, 25.5' LT
(9.5' BURY HYDRANT)

WATER MAIN UNDER
STORM SEWER
MAINTAIN 18" MIN SEPARATION
PROVIDE 7 SY INSULATION

SLOPE INTERCEPT

PROPOSED 8–INCH
WATER MAIN (TYP)

PC: 34+30.17

PT: 35+05.81

R/W

PC: 40+09.71

34+00 35+00 36+00 37+00 38+00 39+00 40+00

5 6

10'

SLOPE

KERN AVE

WATER MAIN UNDER
STORM SEWER
MAINTAIN 18" MIN SEPARATION
PROVIDE 7 SY INSULATION

SLOPE INTERCEPT

PROPOSED 8–INCH
SANITARY SEWER (TYP)

R/W

STA 36+75.00 RT
1–8"x6" WYE
55 LF – 6" PVC SAN SERVICE
WITH RISER
1–6" PVC PLUG
(SAN SERVICE UNDER STM SEW)

STA=34+68.03
TC=1136.65
2.06' LT

STA=37+67.88
TC=1134.91

EXISTING PROFILE

-0.68%

FINISHED PROFILE

ENSURE THAT WATER MAIN HIGH POINT
OCCURS AT THE STA 34+72 HYDRANT,
NOT AT THE HIGH POINT IN THE ROADWAY
PROFILE

9.0' MINIMUM
STA 34+50 TO 40+50

8 INCH WATER MAIN

300 LF 8" PVC SDR 35 @ 0.40%

282 LF 8" PVC SDR 35 @ 0.40%

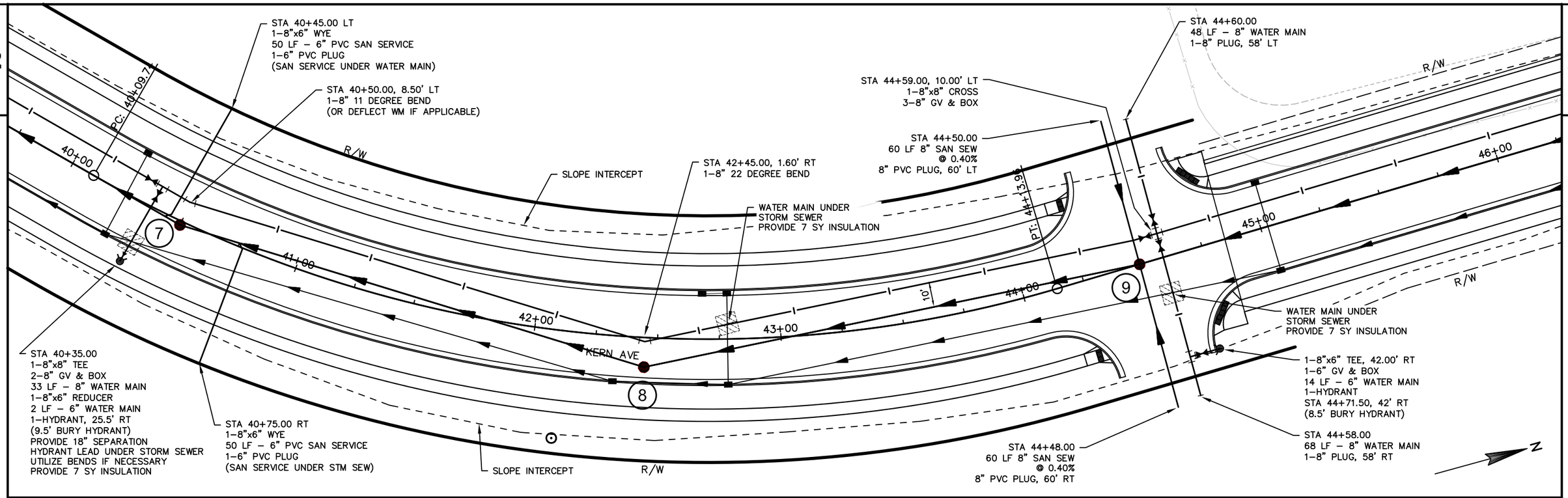
INV=1118.94 (NE)
INV=1118.86 (SW)

INV=1120.21 (NE)
INV=1120.13 (SW)

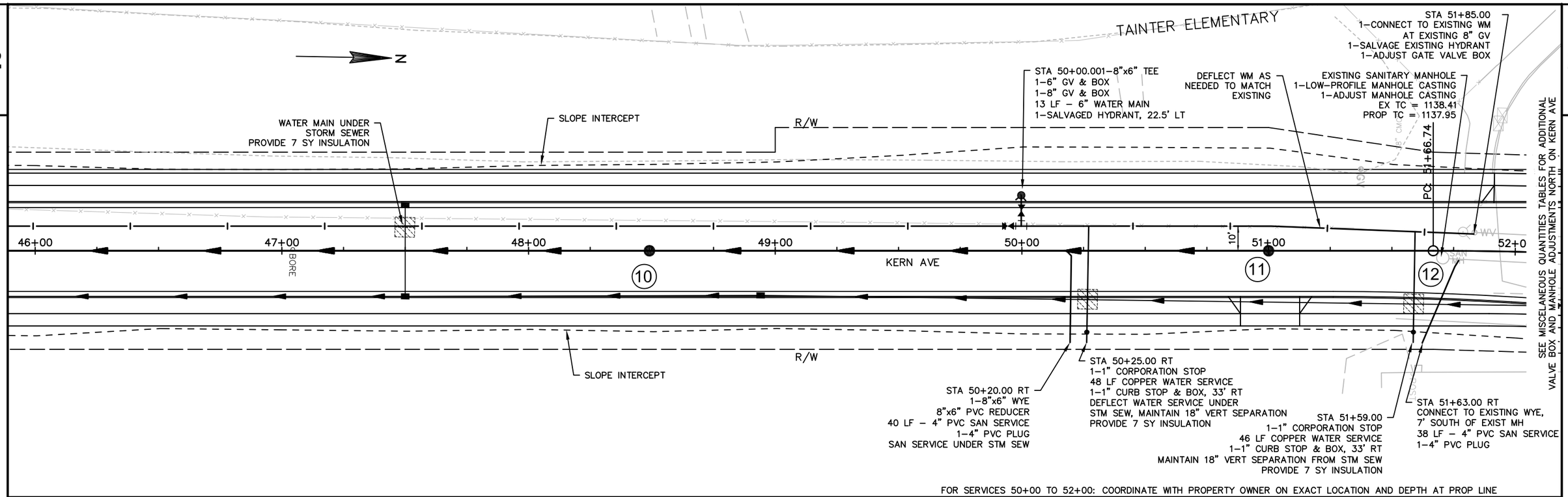
1140 1135 1130 1125 1120 1115 1110

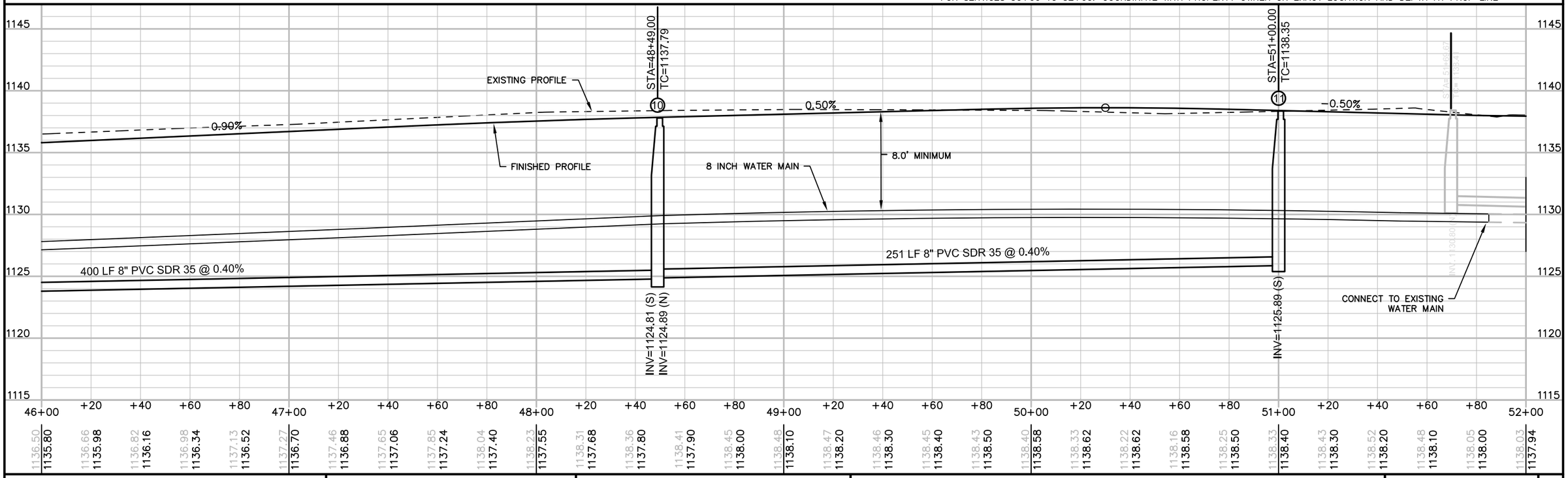
34+00 +20 +40 +60 +80 35+00 +20 +40 +60 +80 36+00 +20 +40 +60 +80 37+00 +20 +40 +60 +80 38+00 +20 +40 +60 +80 39+00 +20 +40 +60 +80 40+00

| | | |

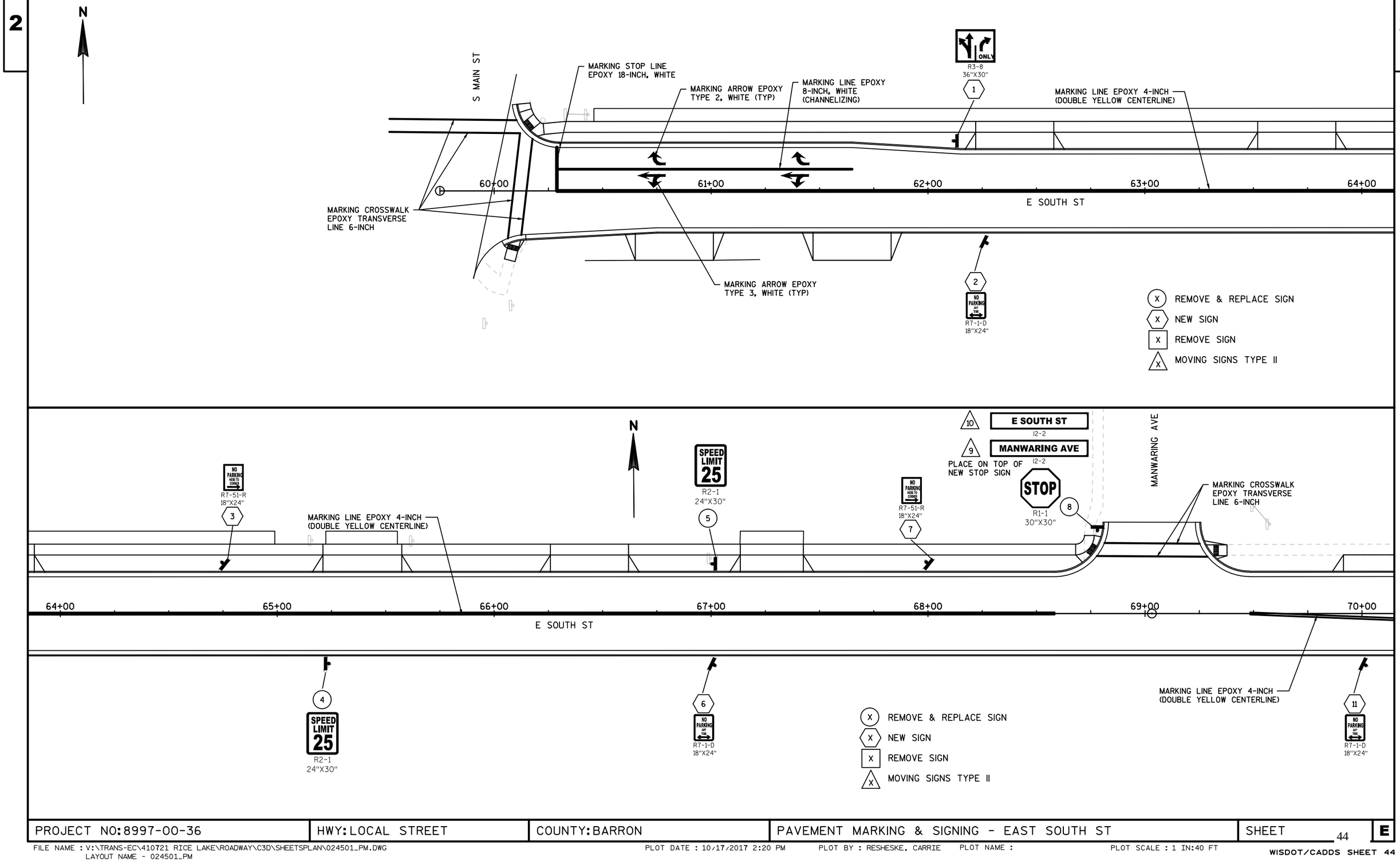


PROJECT NO: 8997–00–38	HWY: LOCAL STREET	COUNTY: BARRON	SANITARY SEWER AND WATER MAIN	SHEET E



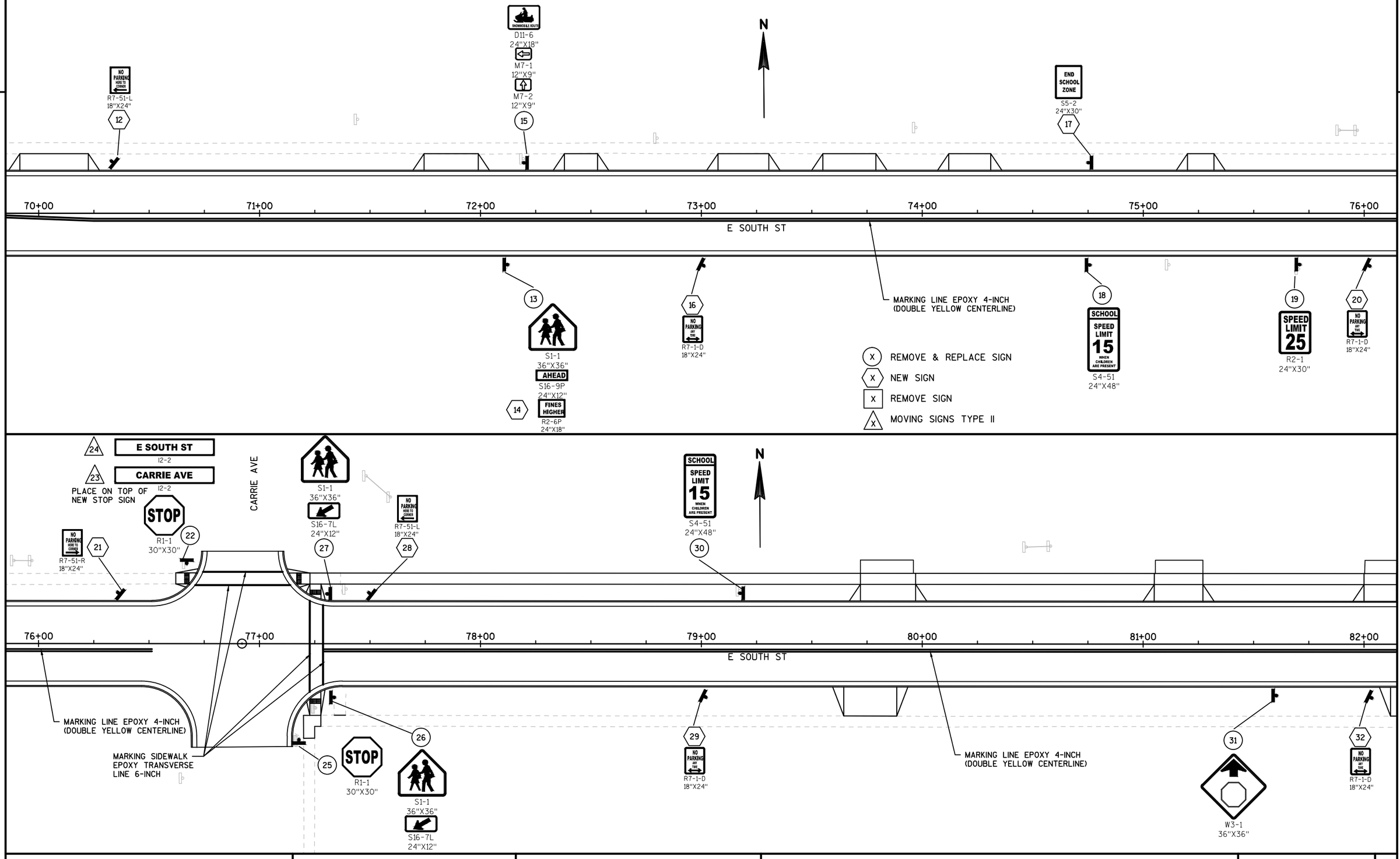


PROJECT NO: 8997–00–38	HWY: LOCAL STREET	COUNTY: BARRON	SANITARY SEWER AND WATER MAIN	SHEET E

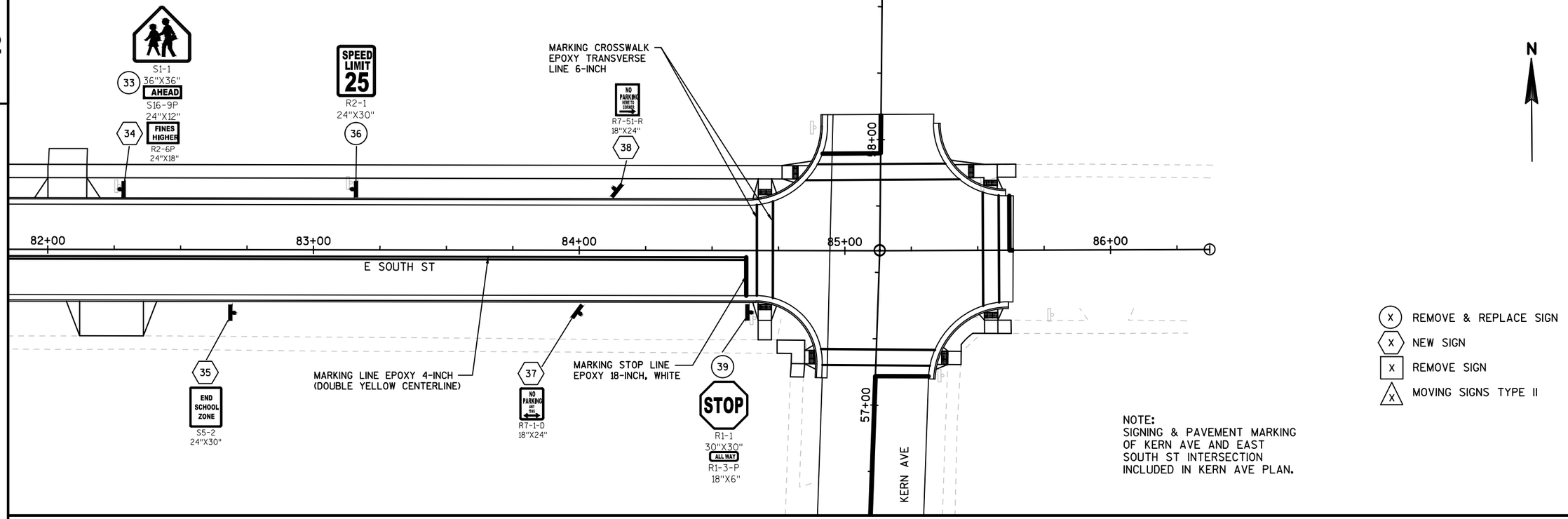


PROJECT NO:8997-00-36	HWY:LOCAL STREET	COUNTY:BARRON	PAVEMENT MARKING & SIGNING - EAST SOUTH ST	SHEET 44	E

2



PROJECT NO:8997-00-36	HWY:LOCAL STREET	COUNTY:BARRON	PAVEMENT MARKING & SIGNING - EAST SOUTH ST	SHEET 45	E



NOTE:
SIGNING & PAVEMENT MARKING OF KERN AVE AND EAST SOUTH ST INTERSECTION INCLUDED IN KERN AVE PLAN.

2

PROJECT NO:8997-00-36	HWY:LOCAL STREET	COUNTY:BARRON	PAVEMENT MARKING & SIGNING - EAST SOUTH ST	SHEET 46	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 024503_PM
PLOT DATE : 10/17/2017 2:20 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

N

MARKING LINE EPOXY 8-INCH, WHITE (DOTTED LANE LINE, 3' LINE 9' GAPS)

MARKING STOP LINE EPOXY 18-INCH, WHITE

MARKING ARROW EPOXY TYPE 1, WHITE (TYP)

MARKING LINE EPOXY 8-INCH, WHITE (CHANNELIZING)

MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH

D11-6 "SNOWMOBILE ROUTE" SIGN

MARKING LINE EPOXY 4-INCH, WHITE (LANE LINE, 12.5' LINE 37.5' GAPS)

MARKING ARROW EPOXY TYPE 2, WHITE

MARKING LINE EPOXY 8-INCH, WHITE (CHANNELIZING)

12+00 13+00 14+00 15+00 16+00 17+00 18+00

SAN

KERN AVE

MARKING LINE EPOXY 4-INCH, YELLOW (DOTTED LANE LINE, 2' LINE 6' GAPS)

MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (TYP)

MARKING LINE EPOXY 4-INCH, WHITE (DOTTED LANE LINE, 3' LINE 9' GAPS)

(X) REMOVE & REPLACE SIGN

(X) NEW SIGN

[X] REMOVE SIGN

MARKING LINE EPOXY 4-INCH, WHITE (LANE LINE, 12.5' LINE 37.5' GAPS)

MARKING LINE EPOXY 8-INCH, WHITE (CHANNELIZING)

"SNOWMOBILE ROUTE" SIGN D11-6

MARKING ARROW EPOXY TYPE 2, WHITE (TYP)

MARKING ARROW EPOXY TYPE 2, WHITE

MARKING LINE EPOXY 8-INCH, WHITE (CHANNELIZING)

MARKING STOP LINE EPOXY 18-INCH, WHITE

MARKING LINE EPOXY 8-INCH, WHITE (CHANNELIZING)

(X) REMOVE & REPLACE SIGN

(X) NEW SIGN

[X] REMOVE SIGN

(X) MOVING SIGNS TYPE II

N

MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH

MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW CENTERLINE)

MARKING CURB EPOXY (TYP)

MARKING ISLAND NOSE EPOXY

MARKING CURB EPOXY (TYP)

MARKING ISLAND NOSE EPOXY

18+00 19+00 20+00 21+00 22+00 23+00 24+00

KERN AVE

MARKING LINE EPOXY 8-INCH, WHITE (CHANNELIZING)

MARKING ARROW EPOXY TYPE 2, WHITE

PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	PAVEMENT MARKING & SIGNING - KERN AVENUE	SHEET 47	E

2

2

N

24+00

25+00

26+00

27+00

28+00

29+00

30+00

KERN AVE

MARKING LINE EPOXY 4-INCH
(DOUBLE YELLOW CENTERLINE)

MARKING CROSSWALK EPOXY
TRANSVERSE LINE 6-INCH (TYP)

83 — NO PARKING ANY TIME — R7-1-D 18"X24"

84 — NO PARKING ANY TIME — R7-1-D 18"X24"

85 — S1-1 36"X36" — AHEAD — S16-9P 24"X12" — FINES HIGHER — R2-6P 24"X18"

86 — SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT — S4-51 24"X48"

87 — NO PARKING ANY TIME — R7-1-D 18"X24"

88 — NO PARKING ANY TIME — R7-1-D 18"X24"

105 — END SCHOOL ZONE — S5-2 24"X30"

X REMOVE & REPLACE SIGN
X NEW SIGN
X REMOVE SIGN
X MOVING SIGNS TYPE II

N

30+00

31+00

32+00

33+00

34+00

35+00

36+00

KERN AVE

89 — S1-1 36"X36" — S16-7L 24"X12"

90 — S1-1 36"X36" — S16-7L 24"X12"

91 — NO PARKING ANY TIME — R7-1-D 18"X24"

92 — NO PARKING ANY TIME — R7-1-D 18"X24"

93 — SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT — S4-51 24"X48"

94 — S1-1 36"X36" — AHEAD — S16-9P 24"X12" — FINES HIGHER — R2-6P 24"X18"

95 — NO PARKING ANY TIME — R7-1-D 18"X24"

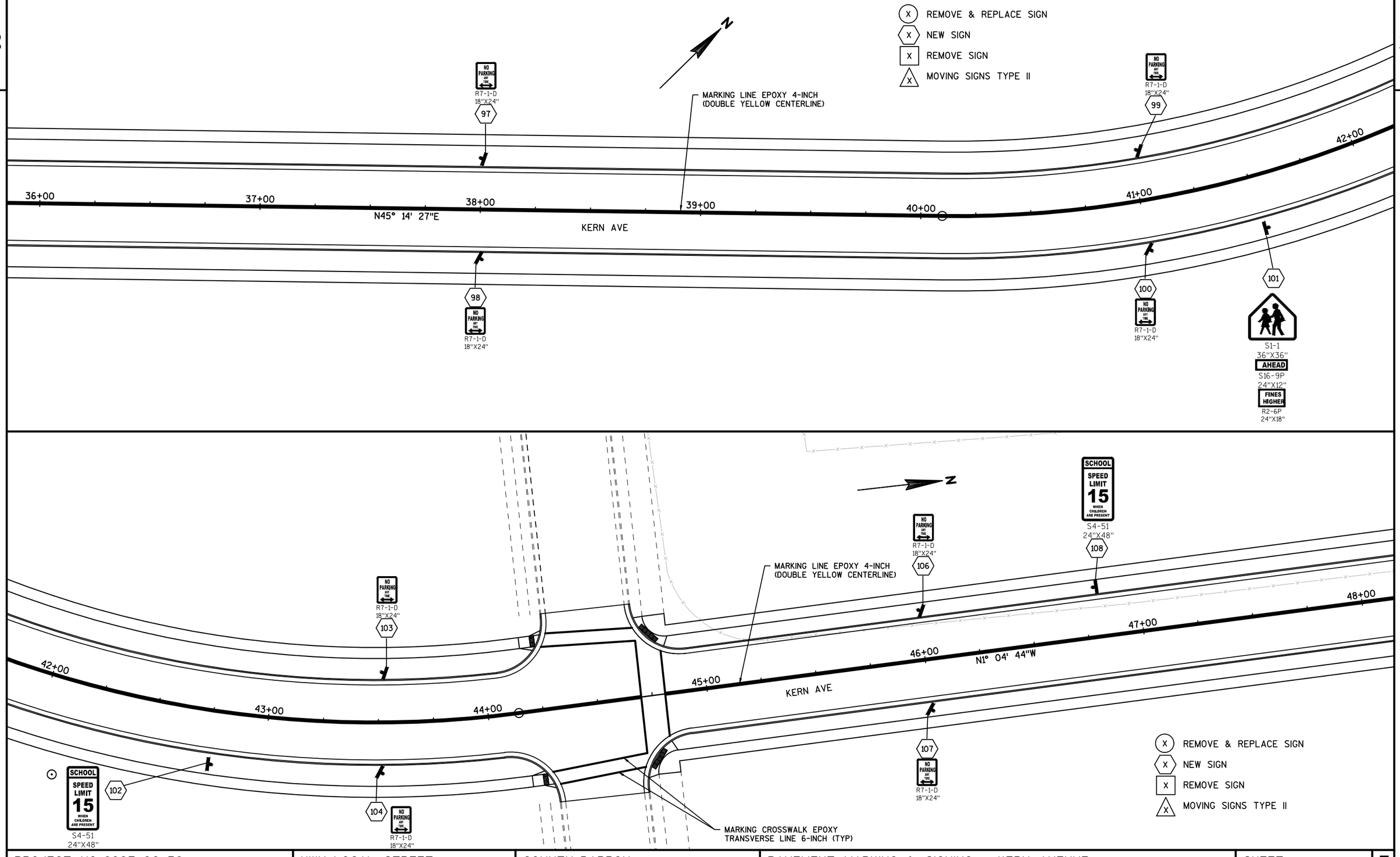
96 — NO PARKING ANY TIME — R7-1-D 18"X24"

MARKING LINE EPOXY 4-INCH
(DOUBLE YELLOW CENTERLINE)

X REMOVE & REPLACE SIGN
X NEW SIGN
X REMOVE SIGN
X MOVING SIGNS TYPE II

PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	PAVEMENT MARKING & SIGNING - KERN AVENUE	SHEET 48	E

2



PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	PAVEMENT MARKING & SIGNING - KERN AVENUE	SHEET 49	E

2

2

X REMOVE & REPLACE SIGN

X NEW SIGN

X REMOVE SIGN

X MOVING SIGNS TYPE II

N

NO PARKING ANY TIME
R7-1-D
18"X24"
109

MARKING LINE EPOXY 4-INCH
(DOUBLE YELLOW CENTERLINE)

NO PARKING ANY TIME
R7-1-D
18"X24"
111

48+00 49+00 50+00 51+00 52+00 53+00 54+00

KERN AVE

110
NO PARKING ANY TIME
R7-1-D
18"X24"

112
NO PARKING ANY TIME
R7-1-D
18"X24"

SPEED LIMIT 25
R2-1
24"X30"
113

NO PARKING ANY TIME
R7-1-D
18"X24"
115

MARKING LINE EPOXY 4-INCH
(DOUBLE YELLOW CENTERLINE)

S1-1
36"X36"
AHEAD
S16-9P
24"X12"
FINES HIGHER
R2-6P
24"X18"
118

EAST SOUTH ST

STOP
R1-1
30"X30"
ALL WAY
R1-3-P
18"X6"
223

MARKING STOP LINE
EPOXY 18-INCH, WHITE

MARKING LINE EPOXY 4-INCH
(DOUBLE YELLOW CENTERLINE)

85+00

54+00 55+00 56+00 57+00 58+00 59+00

KERN AVE

MARKING CROSSWALK EPOXY
TRANSVERSE LINE 6-INCH (TYP)

114
SCHOOL
SPEED LIMIT 15
WHEN CHILDREN ARE PRESENT
S4-51
24"X48"

116
NO PARKING ANY TIME
R7-1-D
18"X24"

117
END SCHOOL ZONE
S5-2
24"X30"

MARKING STOP LINE
EPOXY 18-INCH, WHITE

119
STOP
R1-1
30"X30"
ALL WAY
R1-3-P
18"X6"

221
E SOUTH ST
I2-2

222
KERN AVE
I2-2

PLACE ON TOP OF
NEW STOP SIGN

220
STOP
R1-1
30"X30"
ALL WAY
R1-3-P
18"X6"

MARKING STOP LINE
EPOXY 18-INCH, WHITE

MARKING LINE EPOXY 4-INCH
(DOUBLE YELLOW CENTERLINE)

86+00

X REMOVE & REPLACE SIGN

X NEW SIGN

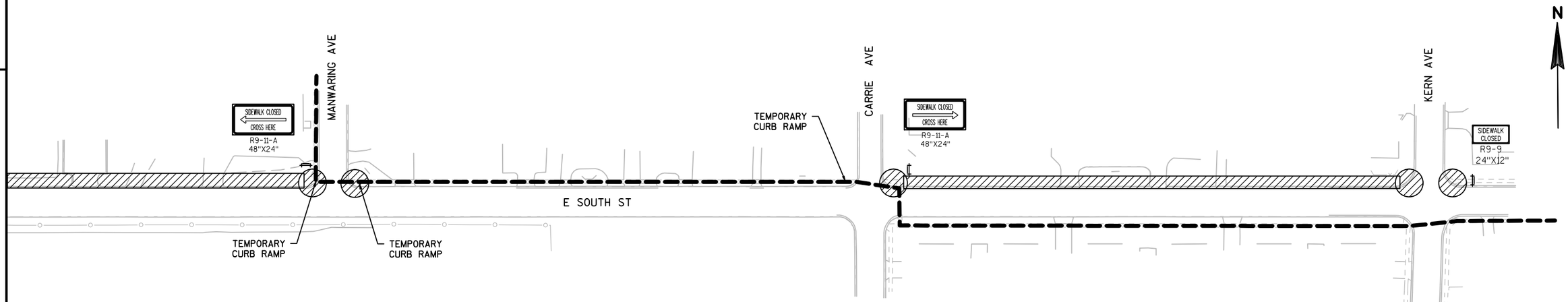
X REMOVE SIGN

X MOVING SIGNS TYPE II

NOTE:
SIGNING & PAVEMENT MARKING
OF WEST LEG OF KERN AVE
AND EAST SOUTH ST
INTERSECTION INCLUDED IN
EAST SOUTH ST PLAN.

PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	PAVEMENT MARKING & SIGNING - KERN AVENUE	SHEET 50	E

2



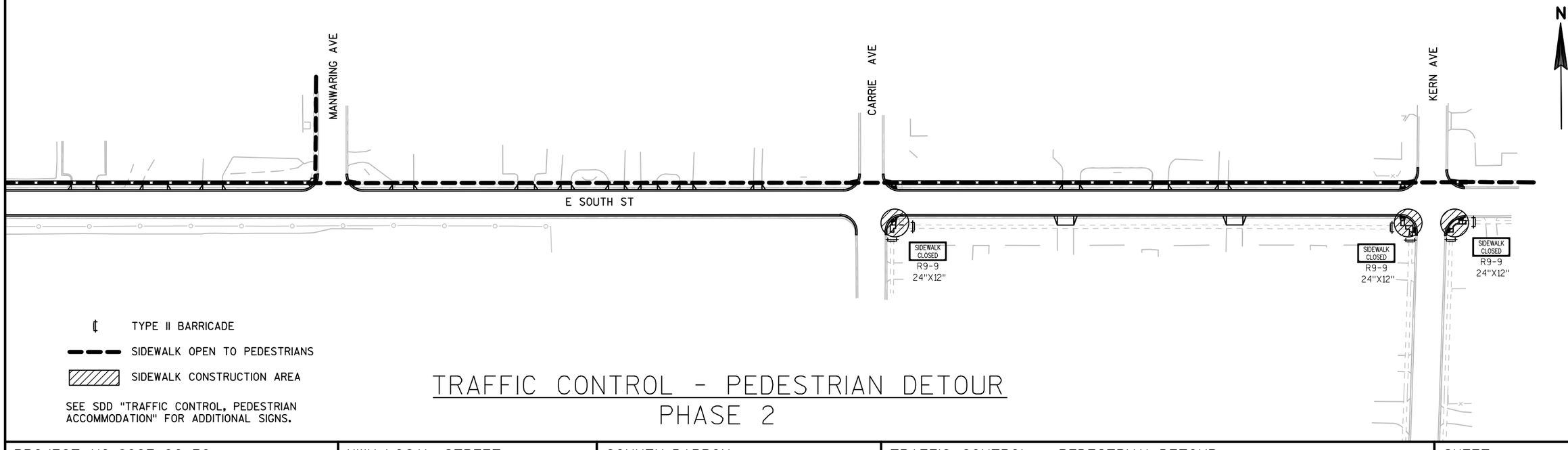
TYPE II BARRICADE

SIDEWALK OPEN TO PEDESTRIANS

SIDEWALK CONSTRUCTION AREA

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL SIGNS.

TRAFFIC CONTROL - PEDESTRIAN DETOUR
PHASE 1



TYPE II BARRICADE

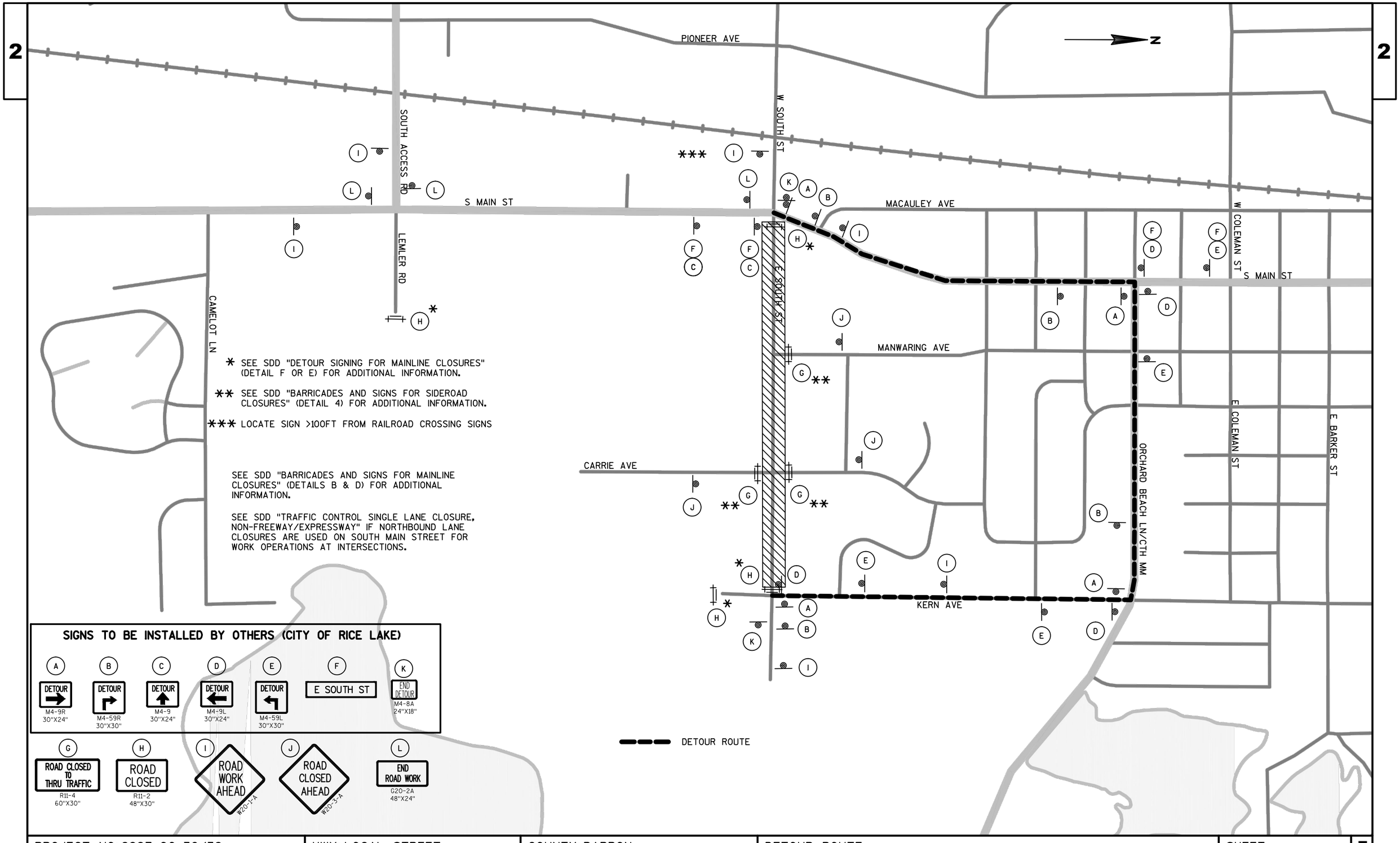
SIDEWALK OPEN TO PEDESTRIANS

SIDEWALK CONSTRUCTION AREA

SEE SDD "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL SIGNS.

TRAFFIC CONTROL - PEDESTRIAN DETOUR
PHASE 2

PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	TRAFFIC CONTROL - PEDESTRIAN DETOUR	SHEET 51	E



PROJECT NO: 8997-00-36/38	HWY: LOCAL STREET	COUNTY: BARRON	DETOUR ROUTE	SHEET 52	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\SHEETSPLAN\027001_DT.DWG
LAYOUT NAME - 027001_DT - 027001_DT
PLOT DATE : 10/17/2017 2:28 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:1500 FT
WISDOT/CADDS SHEET 42

					8997-00-36	8997-00-38
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0002	201.0105	Clearing	STA	4.000	4.000	
0004	201.0205	Grubbing	STA	4.000	4.000	
0006	203.0100	Removing Small Pipe Culverts	EACH	2.000		2.000
0008	204.0100	Removing Pavement	SY	185.000	185.000	
0010	204.0110	Removing Asphaltic Surface	SY	507.000	382.000	125.000
0012	204.0120	Removing Asphaltic Surface Milling	SY	6,377.000		6,377.000
0014	204.0150	Removing Curb & Gutter	LF	5,998.000	5,003.000	995.000
0016	204.0155	Removing Concrete Sidewalk	SY	149.000	65.000	84.000
0018	204.0170	Removing Fence	LF	679.000		679.000
0020	204.0210	Removing Manholes	EACH	6.000	6.000	
0022	204.0220	Removing Inlets	EACH	12.000	9.000	3.000
0024	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	331.000	315.000	16.000
0026	204.0245	Removing Storm Sewer (size) 02. 15-Inch	LF	766.000	766.000	
0028	204.0245	Removing Storm Sewer (size) 03. 18-Inch	LF	30.000		30.000
0030	204.0245	Removing Storm Sewer (size) 04. 24-Inch	LF	25.000	25.000	
0032	204.0245	Removing Storm Sewer (size) 05. 30-Inch	LF	736.000	736.000	
0034	204.0245	Removing Storm Sewer (size) 06. 48-Inch	LF	25.000		25.000
0036	205.0100	Excavation Common	CY	38,018.000	6,616.000	31,402.000
0038	209.1100	Backfill Granular Grade 1	CY	491.000		491.000
0040	209.1500	Backfill Granular Grade 1	TON	28,500.000		28,500.000
0042	213.0100	Finishing Roadway (project) 01. 8997-00-36	EACH	1.000	1.000	
0044	213.0100	Finishing Roadway (project) 01. 8997-00-38	EACH	1.000		1.000
0046	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	14,100.000	4,900.000	9,200.000
0048	305.0130	Base Aggregate Dense 3-Inch	TON	10,140.000	4,200.000	5,940.000
0050	416.0160	Concrete Driveway 6-Inch	SY	1,174.000	715.000	459.000
0052	455.0605	Tack Coat	GAL	1,710.000	500.000	1,210.000
0054	460.2000	Incentive Density HMA Pavement	DOL	4,330.000	1,590.000	2,740.000
0056	460.6223	HMA Pavement 3 MT 58-28 S	TON	3,320.000	1,380.000	1,940.000
0058	460.6244	HMA Pavement 4 MT 58-34 S	TON	3,440.000	1,100.000	2,340.000
0060	465.0105	Asphaltic Surface	TON	307.000	45.000	262.000
0062	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	1.000		1.000
0064	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	13,161.000	4,980.000	8,181.000
0066	602.0405	Concrete Sidewalk 4-Inch	SF	40,064.000	7,948.000	32,116.000
0068	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	280.000	120.000	160.000
0070	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	61.000		61.000
0072	606.0100	Riprap Light	CY	2.500		2.500
0074	606.0200	Riprap Medium	CY	66.000		66.000
0076	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	706.000	470.000	236.000

					8997-00-36	8997-00-38
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0078	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	233.000	38.000	195.000
0080	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	908.000	22.000	886.000
0082	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	1,263.000	433.000	830.000
0084	608.0327	Storm Sewer Pipe Reinforced Concrete Class III 27-Inch	LF	451.000	451.000	
0086	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	1,483.000	440.000	1,043.000
0088	608.0336	Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	LF	696.000	696.000	
0090	608.0342	Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	LF	173.000	173.000	
0092	608.0348	Storm Sewer Pipe Reinforced Concrete Class III 48-Inch	LF	320.000	320.000	
0094	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	114.000	20.000	94.000
0096	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	40.000		40.000
0098	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	670.000		670.000
0100	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	37.000		37.000
0102	608.2334	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 34x53-Inch	LF	34.000	34.000	
0104	608.3030	Storm Sewer Pipe Class III-A 30-Inch	LF	29.000		29.000
0106	608.6006	Storm Sewer Pipe Composite 6-Inch	LF	10.000		10.000
0108	611.0530	Manhole Covers Type J	EACH	17.000	12.000	5.000
0110	611.0540	Manhole Covers Type K	EACH	1.000		1.000
0112	611.0624	Inlet Covers Type H	EACH	48.000	19.000	29.000
0114	611.2003	Manholes 3-FT Diameter	EACH	1.000		1.000
0116	611.2004	Manholes 4-FT Diameter	EACH	8.000	4.000	4.000
0118	611.2005	Manholes 5-FT Diameter	EACH	4.000	4.000	
0120	611.2006	Manholes 6-FT Diameter	EACH	3.000	2.000	1.000
0122	611.2008	Manholes 8-FT Diameter	EACH	2.000	2.000	
0124	611.3004	Inlets 4-FT Diameter	EACH	13.000		13.000
0126	611.3230	Inlets 2x3-FT	EACH	34.000	19.000	15.000
0128	612.0206	Pipe Underdrain Unperforated 6-Inch	LF	50.000		50.000
0130	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	7,041.000		7,041.000
0132	612.0902.S	Insulation Board Polystyrene (inch) 01.2-inch	SY	100.000		100.000
0134	618.0100	Maintenance And Repair of Haul Roads (project) 01.	EACH	1.000		1.000

Line	Item	Item Description	Unit	Total	8997-00-36 Qty	8997-00-38 Qty
		8977-00-38				
0136	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8997-00-36	EACH	1.000	1.000	
0138	619.1000	Mobilization	EACH	1.000	0.300	0.700
0140	620.0300	Concrete Median Sloped Nose	SF	84.000		84.000
0142	624.0100	Water	MGAL	820.000	220.000	600.000
0144	625.0500	Salvaged Topsoil	SY	17,284.000	5,076.000	12,208.000
0146	627.0200	Mulching	SY	6,730.000	930.000	5,800.000
0148	628.1504	Silt Fence	LF	4,820.000	500.000	4,320.000
0150	628.1520	Silt Fence Maintenance	LF	4,820.000	500.000	4,320.000
0152	628.1905	Mobilizations Erosion Control	EACH	12.000	6.000	6.000
0154	628.1910	Mobilizations Emergency Erosion Control	EACH	6.000	3.000	3.000
0156	628.2004	Erosion Mat Class I Type B	SY	1,104.000		1,104.000
0158	628.2006	Erosion Mat Urban Class I Type A	SY	14,135.000	5,050.000	9,085.000
0160	628.7005	Inlet Protection Type A	EACH	54.000	19.000	35.000
0162	628.7015	Inlet Protection Type C	EACH	64.000	27.000	37.000
0164	629.0210	Fertilizer Type B	CWT	14.000	4.000	10.000
0166	630.0120	Seeding Mixture No. 20	LB	60.000	10.000	50.000
0168	630.0140	Seeding Mixture No. 40	LB	340.000	110.000	230.000
0170	630.0200	Seeding Temporary	LB	300.000	90.000	210.000
0172	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	9.000		9.000
0174	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	63.000	23.000	40.000
0176	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	21.000	8.000	13.000
0178	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	7.000	2.000	5.000
0180	637.2210	Signs Type II Reflective H	SF	413.680	124.710	288.970
0182	637.2230	Signs Type II Reflective F	SF	113.420	46.760	66.660
0184	638.2102	Moving Signs Type II	EACH	6.000	4.000	2.000
0186	638.2602	Removing Signs Type II	EACH	33.000	15.000	18.000
0188	638.3000	Removing Small Sign Supports	EACH	31.000	15.000	16.000
0190	642.5001	Field Office Type B	EACH	1.000	0.500	0.500
0192	643.0410	Traffic Control Barricades Type II	DAY	900.000	900.000	
0194	643.0420	Traffic Control Barricades Type III	DAY	2,000.000	1,200.000	800.000
0196	643.0705	Traffic Control Warning Lights Type A	DAY	4,000.000	2,400.000	1,600.000
0198	643.0900	Traffic Control Signs	DAY	3,100.000	2,500.000	600.000
0200	643.5000	Traffic Control 01. 8997-00-36	EACH	1.000	1.000	
0202	643.5000	Traffic Control 02. 8997-00-38	EACH	1.000		1.000
0204	644.1601.S	Temporary Curb Ramp	EACH	3.000	3.000	
0206	645.0130	Geotextile Type R	SY	132.000		132.000
0208	646.1020	Marking Line Epoxy 4-Inch	LF	12,107.000	4,532.000	7,575.000
0210	646.3020	Marking Line Epoxy 8-Inch	LF	645.000	136.000	509.000

					8997-00-36	8997-00-38
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0212	646.5020	Marking Arrow Epoxy	EACH	15.000	4.000	11.000
0214	646.6120	Marking Stop Line Epoxy 18-Inch	LF	155.000	35.000	120.000
0216	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	1,760.000	538.000	1,222.000
0218	646.8120	Marking Curb Epoxy	LF	88.000		88.000
0220	646.8220	Marking Island Nose Epoxy	EACH	3.000		3.000
0222	650.4000	Construction Staking Storm Sewer	EACH	67.000	31.000	36.000
0224	650.4500	Construction Staking Subgrade	LF	6,028.000	2,496.000	3,532.000
0226	650.5000	Construction Staking Base	LF	6,028.000	2,496.000	3,532.000
0228	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	13,097.000	4,980.000	8,117.000
0230	650.8000	Construction Staking Resurfacing Reference	LF	1,008.000		1,008.000
0232	650.9000	Construction Staking Curb Ramps	EACH	25.000	12.000	13.000
0234	650.9910	Construction Staking Supplemental Control (project) 01. 8997-00-36	LS	1.000	1.000	
0236	650.9910	Construction Staking Supplemental Control (project) 02. 8997-00-38	LS	1.000		1.000
0238	650.9920	Construction Staking Slope Stakes	LF	6,028.000	2,496.000	3,532.000
0240	690.0150	Sawing Asphalt	LF	2,271.000	968.000	1,303.000
0242	690.0250	Sawing Concrete	LF	151.000	86.000	65.000
0244	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	800.000	1,600.000
0246	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	990.000	330.000	660.000
0248	SPV.0060	Special 01. Inlets 5-ft diameter	EACH	1.000		1.000
0250	SPV.0060	Special 02. Storm sewer plug	EACH	3.000	1.000	2.000
0252	SPV.0060	Special 03. Connecting to existing storm structure	EACH	5.000	3.000	2.000
0254	SPV.0060	Special 04. Connecting to existing storm pipe	EACH	10.000	6.000	4.000
0256	SPV.0060	Special 05. Storm manhole overflow grate	EACH	1.000		1.000
0258	SPV.0060	Special 06. Storm manhole diversion weir	EACH	1.000	1.000	
0260	SPV.0060	Special 07. Connect to existing water main	EACH	3.000		3.000
0262	SPV.0060	Special 08. Water main gate valve and box 6-inch	EACH	3.000		3.000
0264	SPV.0060	Special 09. Water main gate valve and box 8-inch	EACH	11.000		11.000
0266	SPV.0060	Special 10. Fire Hydrant, 8.5-foot bury	EACH	1.000		1.000
0268	SPV.0060	Special 11. Salvage Existing Hydrant	EACH	2.000		2.000
0270	SPV.0060	Special 12. Install Salvaged Hydrant	EACH	2.000		2.000
0272	SPV.0060	Special 13. Corporation stop, 1-inch	EACH	2.000		2.000
0274	SPV.0060	Special 14. Curb stop and box, 1-inch	EACH	2.000		2.000
0276	SPV.0060	Special 15. Adjust Gate Valve Box	EACH	36.000	15.000	21.000
0278	SPV.0060	Special 16. Adjust existing curb box	EACH	2.000		2.000
0280	SPV.0060	Special 17. Sanitary manhole with casting	EACH	11.000		11.000
0282	SPV.0060	Special 18. Sanitary sewer service wye, 8-inch by 6-inch	EACH	10.000		10.000
0284	SPV.0060	Special 19. Connect to existing sanitary sewer	EACH	1.000		1.000

					8997-00-36	8997-00-38
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0286	SPV.0060	Special 20. Connect to existing sanitary service wye	EACH	1.000		1.000
0288	SPV.0060	Special 21. Adjust Sanitary Manhole Casting	EACH	23.000	8.000	15.000
0290	SPV.0060	Special 22. Sanitary low-profile manhole casting	EACH	1.000		1.000
0292	SPV.0060	Special 23. Potholing for utilities	EACH	11.000	11.000	
0294	SPV.0060	Special 24. Corporation stop, 1 1/2-inch	EACH	1.000		1.000
0296	SPV.0060	Special 25. Curb stop and box, 1-1/2-inch	EACH	1.000		1.000
0298	SPV.0060	Special 26. Fire Hydrant, 9.5-foot bury	EACH	2.000		2.000
0300	SPV.0085	Special 01. Water Main Fittings	LB	1,302.000		1,302.000
0302	SPV.0090	Special 01. Water main 6-inch	LF	86.000		86.000
0304	SPV.0090	Special 02. Water main 8-inch	LF	2,968.000		2,968.000
0306	SPV.0090	Special 03. Copper water service 1-inch	LF	94.000		94.000
0308	SPV.0090	Special 04. Pvc sanitary sewer, 8-inch	LF	2,728.000		2,728.000
0310	SPV.0090	Special 05. Pvc sanitary sewer, 10-inch	LF	13.000		13.000
0312	SPV.0090	Special 06. Pvc sanitary sewer service, 4-inch	LF	78.000		78.000
0314	SPV.0090	Special 07. Pvc sanitary sewer service, 6-inch	LF	502.000		502.000
0316	SPV.0090	Special 08. Televise sanitary sewer	LF	2,608.000		2,608.000
0318	SPV.0090	Special 09. Copper Water Service, 1 1/2-inch	LF	53.000		53.000
0320	SPV.0180	Special 01. HDPE liner	SY	1,472.000		1,472.000
0322	SPV.0200	Special 01. Sanitary manhole extra depth	VF	53.900		53.900

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CLEARING & GRUBBING

STATION TO STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
65+00 - 66+00	LT	1	1
69+00 - 70+00	RT	1	1
83+00 - 85+00	LT	2	2
PROJECT ID TOTALS		**4**	**4**

REMOVING PAVEMENT

STATION	LOCATION	204.0100 SY
61+65	RT	49
70+07	LT	14
71+87	LT	13
72+45	LT	9
73+18	LT	12
73+67	LT	12
74+21	LT	11
75+26	LT	7
79+77	RT	29
82+24	RT	29
PROJECT ID TOTAL		**185**

REMOVING ASPHALTIC SURFACE

STATION TO STATION	LOCATION	204.0110 SY
60+46 - 64+99	LT	351
60+75	RT	31
PROJECT ID TOTAL		**382**

REMOVING CURB & GUTTER

STATION TO STATION	LOCATION	204.0150 LF
60+04 - 76+72	RT	1683
60+08 - 68+83	LT	900
69+23 - 76+76	LT	781
77+11 - 84+92	RT	818
77+08 - 84+94	LT	821
PROJECT ID TOTAL		**5003**

REMOVING CONCRETE SIDEWALK

STATION TO STATION	LOCATION	204.0155 SY
60+10	RT	7
60+14	LT	10
68+75	LT	6
69+32	LT	5
76+67	LT	6
77+12 - 77+37	LT	16
77+25	RT	10
77+35	RT	6
84+80	RT	16
PROJECT ID TOTAL		**65**

BASE AGGREGATE DENSE

STATION TO STATION	LOCATION	305.0120 1 1/4-INCH TON	305.0130 3-INCH TON
59+99 - 84+95	E SOUTH ST	4500	4200
DRIVEWAYS	E SOUTH ST	400	---
PROJECT ID TOTALS		**4900**	**4200**

HMA PAVEMENT ITEMS

STATION TO STATION	LOCATION	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6244 HMA PAVEMENT 4 MT 58-34 S TON	465.0105 ASPHALTIC SURFACE TON	455.0605 TACK COAT GAL
59+99 - 84+95	E SOUTH ST	1380	1100	---	500
60+46 - 64+99	LT	---	---	35	---
65+22 - 65+55	LT	---	---	3	---
67+13 - 67+43	LT	---	---	2	---
79+72 - 79+97	LT	---	---	2	---
81+05 - 81+27	LT	---	---	2	---
82+00 - 82+15	LT	---	---	1	---
PROJECT ID TOTALS		**1380**	**1100**	**45**	**500**

INCENTIVE DENSITY HMA PAVEMENT

PROJECT	460.2000 DOL
8997-00-36	1590
PROJECT ID TOTAL	**1590**

EARTHWORK SUMMARY

DIVISION	STATION TO STATION	LOCATION	205.0100 EXCAVATION COMMON CY	SALVAGED/ UNUSABLE PAVEMENT MATERIAL CY	(6) AVAILABLE MATERIAL CY	UNEXPANDED FILL CY	(2) (4) EXPANDED FILL CY	(5) MASS ORDINATE +/- CY	(1) WASTE CY	(3) 208.0100 BORROW CY
	60+17 - 84+94	E SOUTH ST	6616	955	5661	169	211	5450	5450	---
PROJECT ID TOTALS			**6616**							**---**

(1) WASTE = EXPANDED FILL - EXCAVATION COMMON (FOR INFORMATION ONLY - NOT A BID ITEM)
(2) EXPANSION FACTOR = 1.25
(3) BORROW = EXPANDED FILL - EXCAVATION COMMON
(4) EXPANDED FILL = UNEXPANDED FILL * EXPANSION FACTOR
(5) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. MINUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. PLUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
(6) AVAILABLE MATERIAL = COMMON EXCAVATION - SALVAGED/UNUSABLE MATERIAL

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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REMOVING MANHOLES

STATION	LOCATION	204.0210 EACH
65+40	LT	1
67+17	LT	1
68+89	LT	1
72+92	LT	1
76+55	LT	1
76+83	RT	1
PROJECT ID TOTAL		**6**

REMOVING INLETS

STATION	LOCATION	204.0220 EACH
61+53	LT	1
64+02	LT	1
64+02	RT	1
68+93	RT	1
69+40	LT	1
76+56	LT	1
76+63	RT	1
77+22	RT	1
77+29	LT	1
PROJECT ID TOTAL		**9**

REMOVING STORM SEWER

STATION TO STATION	LOCATION	DESCRIPTION	204.0245.01 12-INCH LF	204.0245.02 15-INCH LF	204.0245.04 24-INCH LF	204.0245.05 30-INCH LF
60+21 - 61+53	LT	30" SS MAIN	-	-	-	132
61+53 - 61+53	RT	12" SS LATERAL	112	-	-	-
61+53 - 64+02	LT	30" SS MAIN	-	-	-	249
64+02 - 64+02	RT	12" SS LATERAL	41	-	-	-
64+02 - 65+40	LT	30" SS MAIN	-	-	-	138
65+40 - 65+40	RT	12" SS LATERAL	20	-	-	-
65+40 - 67+17	LT	30" SS MAIN	-	-	-	177
67+17 - 68+89	LT	30" SS MAIN	-	-	-	172
68+89 - 68+93	RT	12" SS LATERAL	28	-	-	-
68+89 - 69+40	LT	12" SS LATERAL	50	-	-	-
68+89 - 68+89	RT	24" SS MAIN	-	-	25	-
68+89 - 72+44	LT	15" SS MAIN	-	355	-	-
72+44 - 72+92	LT	15" SS MAIN	-	48	-	-
72+92 - 76+55	LT	15" SS MAIN	-	363	-	-
76+55 - 76+56	RT	12" SS LATERAL	12	-	-	-
76+56 - 77+29	LT	12" SS LATERAL	70	-	-	-
76+55 - 76+83	RT	12" SS MAIN	36	-	-	-
76+64 - 76+63	RT	12" SS LATERAL	20	-	-	-
76+83 - 77+22	RT	12" SS LATERAL	38	-	-	-
PROJECT ID TOTALS			**315**	**766**	**25**	**736**

OTHER QUANTITIES LOCATED ELSEWHERE IN PLAN

ALL ITEMS ON THIS SHEET
ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

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STORM SEWER PIPES

FROM	-	TO	608.0312 REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 REINFORCED CONCRETE CLASS III 24-INCH LF	608.0327 REINFORCED CONCRETE CLASS III 27-INCH LF	608.0330 REINFORCED CONCRETE CLASS III 30-INCH LF	608.0336 REINFORCED CONCRETE CLASS III 36-INCH LF	608.0342 REINFORCED CONCRETE CLASS III 42-INCH LF	608.0348 REINFORCED CONCRETE CLASS III 48-INCH LF	608.0412 REINFORCED CONCRETE CLASS IV 12-INCH	608.2334 REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 34X53-INCH LF	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
A3	-	EX A2	-	-	-	-	-	-	-	-	320	-	-	1117.52	1117.40	0.0004
A3	-	A3.1	27	-	-	-	-	-	-	-	-	-	-	1127.71	1127.45	0.0096
A3	-	A3.2	31	-	-	-	-	-	-	-	-	-	-	1127.75	1127.45	0.0097
A4	-	A3	-	-	-	-	-	-	-	-	-	-	34	1116.74	1116.73	0.0003
A4.1	-	A4	-	-	-	25	-	-	-	-	-	-	-	1121.90	1121.84	0.0024
A5	-	A4	-	-	-	-	-	-	-	173	-	-	-	1117.70	1117.53	0.0010
A5	-	A5.1	12	-	-	-	-	-	-	-	-	-	-	1123.66	1123.53	0.0108
A5	-	A5.2	30	-	-	-	-	-	-	-	-	-	-	1123.84	1123.53	0.0103
A6	-	A5	-	-	-	-	-	-	88	-	-	-	-	1117.96	1117.70	0.0030
A6.1	-	A6	-	-	22	-	-	-	-	-	-	-	-	1118.80	1118.71	0.0041
A7	-	A6	-	-	-	-	-	-	88	-	-	-	-	1118.22	1117.96	0.0030
A7.1	-	A7	-	-	-	-	-	-	-	-	-	20	-	1122.43	1121.80	0.0315
A8	-	A7	-	-	-	-	-	-	115	-	-	-	-	1118.54	1118.22	0.0028
A8	-	A8.3	-	31	-	-	-	-	-	-	-	-	-	1120.85	1120.54	0.0100
A8.1	-	A8	-	7	-	-	-	-	-	-	-	-	-	1120.61	1120.54	0.0100
A8.2	-	A8.1	15	-	-	-	-	-	-	-	-	-	-	1120.86	1120.71	0.0100
A8.4	-	A8.3	15	-	-	-	-	-	-	-	-	-	-	1121.10	1120.95	0.0100
A9	-	A9.3	43	-	-	-	-	-	-	-	-	-	-	1122.56	1121.86	0.0163
A9	-	A8	-	-	-	-	-	-	272	-	-	-	-	1119.40	1118.54	0.0032
A9	-	A9.2	37	-	-	-	-	-	-	-	-	-	-	1122.77	1122.40	0.0100
A9.1	-	A9	7	-	-	-	-	-	-	-	-	-	-	1122.52	1122.45	0.0100
EX A10	-	A9	-	-	-	-	-	-	133	-	-	-	-	1119.80	1119.40	0.0030
A12.2	-	A12	5	-	-	-	-	-	-	-	-	-	-	1132.84	1132.70	0.0280
A11	-	EX A2	-	-	-	-	-	440	-	-	-	-	-	1126.46	1124.70	0.0040
A11	-	A13	-	-	-	-	53	-	-	-	-	-	-	1129.95	1129.50	0.0085
A11.1	-	A11	32	-	-	-	-	-	-	-	-	-	-	1131.48	1131.16	0.0100
A12	-	A11	-	-	-	52	-	-	-	-	-	-	-	1130.64	1130.12	0.0100
A12.1	-	A12	23	-	-	-	-	-	-	-	-	-	-	1131.76	1131.64	0.0052
A12.2	-	A12	5	-	-	-	-	-	-	-	-	-	-	1132.84	1132.70	0.0280
A13	-	A13.2	31	-	-	-	-	-	-	-	-	-	-	1131.76	1131.45	0.0100
A13	-	A14	-	-	-	-	398	-	-	-	-	-	-	1131.37	1129.95	0.0036
A13.1	-	A13	6	-	-	-	-	-	-	-	-	-	-	1131.52	1131.45	0.0117
A13.2	-	A13.3	25	-	-	-	-	-	-	-	-	-	-	1132.11	1131.86	0.0100
A14	-	A14.1	7	-	-	-	-	-	-	-	-	-	-	1132.82	1132.75	0.0100
A14	-	A14.2	32	-	-	-	-	-	-	-	-	-	-	1132.94	1132.62	0.0100
A15	-	A14	-	-		356	-	-	-	-	-	-	-	1133.40	1131.62	0.0050
A15.1	-	A15	61	-	-	-	-	-	-	-	-	-	-	1133.71	1133.08	0.0103
A15.2	-	A15	26	-	-	-	-	-	-	-	-	-	-	1134.50	1134.24	0.0100
PROJ ID TOTAL			**470**	**38**	**22**	**433**	**451**	**440**	**696**	**173**	**320**	**20**	**34**			

OTHER QUANTITIES LOCATED ELSEWHERE IN PLAN

ALL ITEMS ON THIS SHEET
ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

STORM SEWER STRUCTURES

STRUCTURE	STATION	OFFSET*	611.0530 MANHOLE COVERS TYPE J EACH	611.0624 INLET COVERS TYPE H EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2008 MANHOLES 8-FT DIAMETER EACH	611.3230 INLETS 2X3-FT EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	RIM ELEVATION	INVERT** ELEVATION	DEPTH*** FT
A3	69+24	12' LT	1	-	-	-	-	1	-	1	1131.26	1116.73	13.71
A4	68+90	12' LT	1	-	-	-	-	1	-	1	1130.72	1116.74	13.16
A5	67+16	12' LT	1	-	-	-	1	-	-	1	1127.40	1117.70	8.80
A6	66+28	12' LT	1	-	-	1	-	-	-	1	1126.35	1117.96	7.49
A7	65+40	12' LT	1	-	-	1	-	-	-	1	1125.24	1118.22	6.11
A8	64+25	12' LT	1	-	-	1	-	-	-	1	1124.74	1118.54	5.30
A9	61+53	15' LT	1	-	-	1	-	-	-	1	1126.18	1119.40	5.87
A11	76+83	12' LT	1	-	-	-	1	-	-	1	1135.44	1126.46	8.03
A12	76+83	40.1' RT	1	-	1	-	-	-	-	1	1135.52	1130.64	3.89
A13	77+36	12' LT	1	-	1	-	-	-	-	1	1135.38	1129.95	4.45
A14	81+34	14' LT	1	-	1	-	-	-	-	1	1136.87	1131.37	4.53
A15	84+90	14' LT	1	-	1	-	-	-	-	1	1138.36	1132.49	4.89
A3.1	69+49	18.5' LT	-	1	-	-	-	-	1	1	1131.79	1127.71	3.24
A3.2	49+24	18.5' RT	-	1	-	-	-	-	1	1	1131.24	1127.75	2.65
A5.1	67+06	18.5' LT	-	1	-	-	-	-	1	1	1127.15	1123.66	2.66
A5.2	67+16	18.5' RT	-	1	-	-	-	-	1	1	1127.30	1123.84	2.63
A8.1	64+25	18.5' LT	-	1	-	-	-	-	1	1	1124.63	1120.61	3.19
A8.2	64+40	18.5' LT	-	1	-	-	-	-	1	1	1124.64	1120.86	2.94
A8.3	64+25	18.5' RT	-	1	-	-	-	-	1	1	1124.63	1120.85	2.95
A8.4	64+40	18.5' RT	-	1	-	-	-	-	1	1	1124.64	1121.10	2.70
A9.1	61+53	21.5' LT	-	1	-	-	-	-	1	1	1126.09	1122.52	2.74
A9.2	61+37	18.5' RT	-	1	-	-	-	-	1	1	1126.23	1122.77	2.63
A11.1	76+51	18.5' LT	-	1	-	-	-	-	1	1	1135.44	1131.48	3.12
A12.1	76+64	26.7' RT	-	1	-	-	-	-	1	1	1135.43	1131.76	2.84
A13.1	77+36	18.5' LT	-	1	-	-	-	-	1	1	1135.28	1131.52	2.93
A13.2	77+39	18.5' RT	-	1	-	-	-	-	1	1	1135.40	1131.76	2.81
A13.3	77+17	30.3' RT	-	1	-	-	-	-	1	1	1135.41	1132.11	2.47
A14.1	81+40	18.5' LT	-	1	-	-	-	-	1	1	1136.84	1132.82	3.19
A14.2	81+34	18.5' RT	-	1	-	-	-	-	1	1	1136.94	1132.94	3.17
A15.1	84+90	47' RT	-	1	-	-	-	-	1	1	1138.60	1133.71	4.08
A15.2	84+91	40' LT	-	1	-	-	-	-	1	1	1139.00	1134.50	3.69
PROJECT ID TOTAL			**12**	**19**	**4**	**4**	**2**	**2**	**19**	**31**			

REMARKS

* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

** FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE

*** DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6 -INCH ADJUSTMENT RING HEIGHT

OTHER QUANTITIES LOCATED ELSEWHERE IN PLAN

ALL ITEMS ON THIS SHEET
ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

3

CONCRETE DRIVEWAY & CONCRETE SIDEWALK

STATION TO STATION	LOCATION	416.0160 DRIVEWAY 6-INCH SY	602.0405 SIDEWALK 4-INCH SF
60+09	RT	---	6
60+23 - 62+22	LT	---	1089
60+83	RT	57	---
61+65	RT	57	---
62+40	LT	54	---
62+58 - 63+52	LT	---	470
63+70	LT	54	---
63+88 - 65+21	LT	---	666
65+39	LT	55	---
65+57 - 66+26	LT	---	343
66+44	LT	54	---
66+62 - 67+13	LT	---	258
67+28	LT	45	---
67+42 - 68+77	LT	---	714
69+28 - 69+38	LT	---	53
70+07	LT	30	---
71+87	LT	25	---
72+45	LT	17	---
73+19	LT	24	---
73+67	LT	24	---
74+21	LT	20	---
75+26	LT	15	---
76+62 - 76+72	LT	---	53
77+13 - 79+72	LT	---	1346
77+16 - 77+27	RT	---	128
79+77	RT	43	---
79+85	LT	39	---
79+97 - 81+05	LT	---	540
81+16	LT	35	---
81+27 - 82+00	LT	---	365
82+07	LT	25	---
82+15 - 84+87	LT	---	1409
82+24	RT	42	---
84+74 - 84+88	RT	---	181
85+34 - 85+58	RT	---	217
85+41 - 85+58	LT	---	110
PROJECT ID TOTALS		**715**	**7948**

CURB RAMP DETECTABLE WARNING FIELD YELLOW

STATION	LOCATION	602.0505 SF
60+09	RT	10
60+15	LT	10
68+76	LT	10
69+33	LT	10
76+67	LT	10
77+18	LT	10
77+25	RT	10
77+25	LT	10
84+70	LT	10
84+70	RT	10
84+81	LT	10
84+88	RT	10
PROJECT ID TOTAL		**120**

MOBILIZATION

PROJECT	619.1000 EACH
8997-00-36	0.3
PROJECT ID TOTAL	**0.3**

WATER

LOCATION	624.0100 MGAL
BASE COMPACTION	180
DUST CONTROL	40
PROJECT ID TOTAL	**220**

SILT FENCE

STATION TO STATION	LOCATION	628.1504 LF	628.1520 MAINTENANCE LF
66+50 - 70+50	RT	400	400
UNDISTRIBUTED		100	100
PROJECT ID TOTALS		**500**	**500**

MOBILIZATIONS EROSION CONTROL AND EMERGENCY EROSION CONTROL

PROJECT	628.1905 EACH	628.1910 EMERGENCY EACH
8997-00-36	6	3
PROJECT ID TOTALS	**6**	**3**

EROSION MAT URBAN CLASS I TYPE A

STATION TO STATION	LOCATION	628.2006 SY
60+00 - 76+70	RT	1842
60+25 - 68+75	LT	485
69+35 - 76+70	LT	450
77+15 - 84+90	RT	1008
77+30 - 84+80	LT	554
UNDISTRIBUTED		711
PROJECT ID TOTAL		**5050**

INLET PROTECTION

STATION	LOCATION	628.7005 TYPE A EACH	628.7015 TYPE C EACH
59+91	RT	---	1
60+08	LT	---	1
61+37	RT	1	1
61+53	LT	1	1
64+25	RT	1	1
64+25	LT	1	1
64+40	LT	1	1
64+40	RT	1	1
67+06	LT	1	1
67+16	RT	1	1
69+24	RT	1	1
69+49	LT	1	1
76+51	LT	1	1
76+64	RT	1	1
77+17	RT	1	1
77+36	LT	1	1
77+39	RT	1	1
81+34	RT	1	1
81+40	LT	1	1
84+90	RT	1	1
84+91	LT	1	1
UNDISTRIBUTED		---	6
PROJECT ID TOTALS		**19**	**27**

FIELD OFFICE TYPE B

PROJECT	642.5001 EACH
8997-00-36	0.5
PROJECT ID TOTAL	**0.5**

CONCRETE CURB AND GUTTER 30-INCH TYPE D

STATION TO STATION	LOCATION	601.0411 LF
60+04 - 76+70	RT	1684
60+10 - 68+81	LT	894
69+26 - 76+74	LT	775
77+14 - 84+89	RT	812
77+11 - 84+92	LT	815
PROJECT ID TOTAL		**4980**

SALVAGED TOPSOIL, MULCHING, FERTILIZER, & SEEDING

STATION TO STATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB
59+99 - 84+94	5076	737	3.2	8	83	69
UNDISTRIBUTED	---	193	0.8	2	27	21
PROJECT ID TOTALS	**5076**	**930**	**4**	**10**	**110**	**90**

TEMPORARY CURB RAMP

LOCATION	644.1601.S EACH
NW QUAD MANWARING & E SOUTH	1
NE QUAD MANWARING & E SOUTH	1
NW QUAD CARRIE & E SOUTH	1
PROJECT ID TOTAL	**3**

ALL ITEMS ON THIS SHEET
ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

3

PERMANENT SIGNING

SIGN NO	APPROX STATION LOCATION	SIGN CODE	SIGN SIZE WxH (INCHES)	634.0614 POSTS WOOD 4X6-INCH 14-FT EACH	634.0616 16-FT EACH	634.0618 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENT
1	62+13, LT	R3-8	36 X 30	1	---	---	7.50	---	---	---	---	
2	62+25, RT	R7-1-D	18 X 24	1	---	---	3.00	---	---	---	---	
3	64+75, LT	R7-51-R	18 X 24	1	---	---	3.00	---	---	---	---	
4	65+25, RT	R2-1	24 X 30	1	---	---	5.00	---	---	1	1	"25 MPH"
5	67+00, LT	R2-1	24 X 30	1	---	---	5.00	---	---	1	1	"25 MPH"
6	67+00, RT	R7-1-D	18 X 24	1	---	---	3.00	---	---	---	---	
7	68+00, LT	R7-51-R	18 X 24	1	---	---	3.00	---	---	---	---	
8	68+75, LT	R1-1	30 X 30	1	---	---	5.18	---	---	1	1	
9		STREET SIGN		---	---	---	---	---	1	---	---	SHARE POST W/R1-1
10		STREET SIGN		---	---	---	---	---	1	---	---	SHARE POST W/R1-1
11	70+00, RT	R7-1-D	18 X 24	1	---	---	3.00	---	---	---	---	
12	70+33, LT	R7-51-L	18 X 24	1	---	---	3.00	---	---	---	---	
13	72+12, RT	S1-1	36 X 36	---	---	1	---	6.75	---	1	1	
		S16-9P	24 X 12	---	---	---	---	2.00	---	---	---	SHARE POST W/S1-1
14		R2-6P	24 X 18	---	---	---	3.00	---	---	---	---	SHARE POST W/S1-1
15	72+20, LT	D11-6	24 X 18	---	1	---	3.00	---	---	1	1	
		M7-1	12 X 9	---	---	---	0.75	---	---	---	---	SHARE POST W/D11-6
		M7-2	12 X 9	---	---	---	0.75	---	---	---	---	SHARE POST W/D11-6
16	73+00, RT	R7-1-D	18 X 24	1	---	---	3.00	---	---	---	---	
17	74+75, LT	S5-2	24 X 30	1	---	---	5.00	---	---	---	---	
18	74+75, RT	S4-51	24 X 48	---	1	---	6.62	1.38	---	1	1	"15 MPH"
19	75+70, RT	R2-1	36 X 36	---	1	---	5.00	---	---	1	1	"25 MPH"
20	76+00, RT	R7-1-D	18 X 24	1	---	---	3.00	---	---	---	---	
21	76+36, LT	R7-51-R	18 X 24	1	---	---	3.00	---	---	---	---	
22	76+67, LT	R1-1	30 X 30	1	---	---	5.18	---	---	1	1	
23		STREET SIGN		---	---	---	---	---	1	---	---	SHARE POST W/R1-1
24		STREET SIGN		---	---	---	---	---	1	---	---	SHARE POST W/R1-1
25	77+17, RT	R1-1	30 X 30	1	---	---	5.18	---	---	---	---	
26	77+33, RT	S1-1	36 X 36	---	1	---	---	6.75	---	1	1	
		S16-7L	24 X 12	---	---	---	---	2.00	---	---	---	SHARE POST W/S1-1
27	77+32, LT	S1-1	36 X 36	---	1	---	---	6.75	---	1	1	
		S16-7L	24 X 12	---	---	---	---	2.00	---	---	---	SHARE POST W/S1-1
28	77+50, LT	R7-51-L	18 X 24	1	---	---	3.00	---	---	---	---	
29	79+00, RT	R7-1-D	18 X 24	1	---	---	3.00	---	---	---	---	
30	79+17, LT	S4-51	24 X 48	---	1	---	6.62	1.38	---	1	1	"15 MPH"
31	81+60, RT	W3-1	36 X 36	---	1	---	---	9.00	---	1	1	
32	82+00, RT	R7-1-D	18 X 24	1	---	---	3.00	---	---	---	---	
33	82+27, LT	S1-1	36 X 36	---	---	1	---	6.75	---	1	1	
		S16-9P	24 X 12	---	---	---	---	2.00	---	---	---	SHARE POST W/S1-1
34		R2-6P	24 X 18	---	---	---	3.00	---	---	---	---	SHARE POST W/S1-1
35	82+70, RT	S5-2	24 X 30	1	---	---	5.00	---	---	---	---	
36	83+14, LT	R2-1	24 X 30	1	---	---	5.00	---	---	1	1	"25 MPH"
37	84+00, RT	R7-1-D	18 X 24	1	---	---	3.00	---	---	---	---	
38	84+13, LT	R7-51-R	18 X 24	1	---	---	3.00	---	---	---	---	
39	84+65, RT	R1-1	30 X 30	---	1	---	5.18	---	---	1	1	
		R1-3-P	18 X 6	---	---	---	0.75	---	---	---	---	SHARE POST W/R1-1
PROJECT TOTALS				**23**	**8**	**2**	**124.71**	**46.76**	**4**	**15**	**15**	

ALL ITEMS ON THIS SHEET
ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

3

TRAFFIC CONTROL ITEMS

PROJECT	643.0410 BARRICADES TYPE II EACH	643.0410 BARRICADES TYPE II DAY	643.0420 BARRICADES TYPE III EACH	643.0420 BARRICADES TYPE III DAY	643.0705 WARNING LIGHTS TYPE A EACH	643.0705 WARNING LIGHTS TYPE A DAY	643.0900 SIGNS EACH	643.0900 SIGNS DAY	643.5000 TRAFFIC CONTROL EACH
8997-00-36	9	711	12	948	24	1896	25	1975	1
UNDISTRIBUTED		189		252		504		525	---
PROJECT ID TOTALS		**900**		**1200**		**2400**		**2500**	**1**

MARKING LINE EPOXY

STATION TO STATION	DESCRIPTION	646.1020 4-INCH YELLOW LF	646.3020 8-INCH WHITE LF
60+29 - 61+65	CHANNELIZING	---	136
60+29 - 68+59	DOUBLE YELLOW CENTERLINE	1660	---
69+49 - 76+51	DOUBLE YELLOW CENTERLINE	1404	---
77+29 - 84+63	DOUBLE YELLOW CENTERLINE	1468	---
PROJECT ID TOTALS		**4532**	**136**

MARKING STOP LINE EPOXY 18-INCH

STATION	LOCATION	646.6120 LF
60+29	LT	20
84+63	RT	15
PROJECT ID TOTAL		**35**

MARKING ARROW EPOXY

STATION	TYPE	COLOR	646.5020 EACH
60+75	2	WHITE	1
60+75	3	WHITE	1
61+40	2	WHITE	1
61+40	3	WHITE	1
PROJECT ID TOTAL			**4**

MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH

STATION	LOCATION	646.7420 LF
59+90	MAIN ST	120
60+12	E SOUTH ST	95
69+00	MANWARING AVE	95
77+00	CARRIE AVE	80
77+25	E SOUTH ST	78
84+70	E SOUTH ST	70
PROJECT ID TOTALS		**538**

CONSTRUCTION STAKING SUPPLEMENTAL CONTROL

PROJECT	650.9910.01 LS
8997-00-36	1

CONSTRUCTION STAKING

STATION TO STATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.9920 SLOPE STAKES LF
59+99 - 84+95	2496	2496	2496
PROJECT ID TOTALS	**2496**	**2496**	**2496**

CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER

STATION TO STATION	LOCATION	650.5500 LF
60+04 - 76+70	RT	1684
60+10 - 68+81	LT	894
69+26 - 76+74	LT	775
77+14 - 84+89	RT	812
77+11 - 84+92	LT	815
PROJECT ID TOTAL		**4980**

CONSTRUCTION STAKING CURB RAMPS

STATION	LOCATION	650.9000 EACH
60+09	RT	1
60+15	LT	1
68+76	LT	1
69+33	LT	1
76+67	LT	1
77+18	LT	1
77+25	RT	1
77+25	LT	1
84+70	LT	1
84+70	RT	1
84+81	LT	1
84+88	RT	1
PROJECT ID TOTAL		**12**

ADJUST GATE VALVE BOX

STATION	LOCATION	SPV.0060.15 EACH
66+58	RT	2
69+19	RT	1
69+21	LT	2
76+59	RT	2
77+03	RT	2
77+11	LT	2
80+52	RT	1
80+83	RT	1
84+57	RT	1
84+95	LT	1
PROJECT ID TOTAL		**15**

ADJUST SANITARY MANHOLE CASTING

STATION	LOCATION	SPV.0060.21 EACH
60+35	LT	1
63+63	LT	1
67+01	RT	1
69+00	RT	1
73+03	RT	1
76+90	RT	1
81+02	RT	1
85+11	RT	1
PROJECT ID TOTAL		**8**

SAWING

STATION TO STATION	LOCATION	690.0150 ASPHALT LF	690.0250 CONCRETE LF
59+99	E SOUTH ST	96	---
60+15	LT, CURB & SIDEWALK	---	8
60+09	RT, CURB & SIDEWALK	---	7.5
60+42 - 61+22	RT, DRIVEWAY	81	---
60+46 - 64+99	LT, DRIVEWAY	453	---
65+39	LT, DRIVEWAY	33	5
67+28	LT, DRIVEWAY	29	---
69+00	MANWARING AVE	40	5
68+75	LT, SIDEWALK	---	5
69+38	LT, SIDEWALK	---	5
77+00	LT, CARRIE AVE	32	5
77+00	RT, CARRIE AVE	41	5
76+62	LT, SIDEWALK	---	5
77+25	RT, SIDEWALK	---	15
79+85	LT, DRIVEWAY	24	2.5
81+16	LT, DRIVEWAY	22	2.5
82+07	LT, DRIVEWAY	14	---
84+81	RT, CURB & SIDEWALK	---	12.5
84+93	LT, CURB	---	2.5
84+95	E SOUTH ST	103	---
PROJECT ID TOTALS		**968**	**86**

ALL ITEMS ON THIS SHEET
ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

3

CONNECT TO EXISTING STORM

STATION	LOCATION	DESCRIPTION	SPV.0060.03 STRUCTURE EACH	SPV.0060.04 PIPE EACH
60+21	11.2' LT	EX A10	1	-
61+53	27.9' RT	A9.3	-	1
65+40	31.9' LT	A7.1	-	1
66+28	12' LT	8" PVC	-	1
67+16	12' LT	8" PVC	-	1
68+90	36.9' LT	24" RCP	-	1
72+43	11.7' LT	EX A2	2	-
76+83	45.1' RT	A12.2	-	1
PROJECT ID TOTAL			**3**	**6**

POTHOLING FOR UTILITIES

STATION	LOCATION	DESCRIPTION	SPV.0060.23 EACH
65+65	11.2' LT	SAN LATERAL	1
66+79	12.0' LT	SAN LATERAL	1
69+85	11.9' LT	SAN LATERAL	1
71+92	11.9' LT	SAN LATERAL	1
72+98	11.9' LT	SAN LATERAL	1
73+80	11.8' LT	SAN LATERAL	1
74+82	11.8' LT	SAN LATERAL	1
75+85	12.0' LT	SAN LATERAL	1
77+80	12.3' LT	SAN LATERAL	1
78+90	13.5' LT	SAN LATERAL	1
79+90	14.5' LT	SAN LATERAL	1
PROJECT ID TOTAL			**11**

STORM SEWER PLUG

STATION	LOCATION	DESCRIPTION	SPV.0060.02 EACH
66+28	37' LT	12" RCP	1
PROJECT ID TOTAL			**1**

STORM MANHOLE DIVERSION WEIR

STATION	LOCATION	ESCRIPTIO	SPV.0060.06 EACH
60+21	11.2' LT	EX A10	1
PROJECT ID TOTAL			**1**

OTHER QUANTITIES LOCATED ELSEWHERE IN PLAN

ALL ITEMS ON THIS SHEET
ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

3

REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	SIZE	TYPE	203.0100 EACH
22+50	KERN	12"x30'	CP	1
22+00	KERN	4"x60'	DRAINTILE	1
PROJECT ID TOTAL				**2**

REMOVING ASPHALTIC SURFACE

STATION TO STATION	LOCATION	204.0110 SY
13+12	PATH, RT	7
13+15	PATH, LT	25
15+32	PATH, LT	3
16+14	PATH, LT	3
17+72 - 18+50	PATH, LT	87
PROJECT ID TOTAL		**125**

REMOVING ASPHALTIC SURFACE MILLING

STATION TO STATION	204.0120 SY
12+70 - 18+40	4280
53+72 - 58+10	2097
PROJECT ID TOTAL	**6377**

REMOVING CURB & GUTTER

STATION TO STATION	LOCATION	204.0150 LF
13+04 - 13+18	LT	18
13+05 - 13+20	RT	22
15+15 - 15+44	LT	43
15+15 - 15+55	RT	52
15+81 - 19+00	RT	330
15+97 - 19+05	LT	365
18+40 - 18+67	MEDIAN	55
53+59 - 53+72	LT	13
53+59 - 53+72	RT	13
57+11 - 57+41	RT	44
57+81 - 58+09	RT	40
PROJECT ID TOTAL		**995**

REMOVING CONCRETE SIDEWALK

STATION TO STATION	LOCATION	204.0155 SY
13+11	PATH, LT	12
13+12	PATH, RT	15
15+35	PATH, LT	15
16+05	PATH, LT	15
18+49 - 18+65	PATH, LT	20
57+16 - 57+34	RT	20
57+88	RT	14
PROJECT ID TOTAL		**84**

REMOVING FENCE

STATION TO STATION	LOCATION	204.0170 LF
19+24	RT	16
44+90 - 51+35	LT	663
PROJECT ID TOTAL		**679**

BACKFILL GRANULAR GRADE 1

STATION TO STATION	LOCATION	209.1500 TON
18+40 - 53+72	KERN AVENUE	28500
PROJECT ID TOTAL		**28500**

BASE AGGREGATE DENSE

STATION TO STATION	LOCATION	305.0120 1 1/4-INCH TON	305.0130 3-INCH TON
18+40 - 53+72	KERN AVENUE	7200	5940
DRIVEWAYS/PATH	KERN AVENUE	2000	---
PROJECT ID TOTALS		**9200**	**5940**

INCENTIVE DENSITY HMA PAVEMENT

PROJECT	460.2000 DOL
8997-00-38	2740
PROJECT ID TOTAL	**2740**

HMA PAVEMENT ITEMS

STATION TO STATION	LOCATION	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6244 HMA PAVEMENT 4 MT 58-34 S TON	465.0105 ASPHALTIC SURFACE TON	455.0605 TACK COAT GAL
12+70 - 18+40	KERN AVENUE	---	560	---	355
18+40 - 53+72	KERN AVENUE	1940	1550	---	705
53+72 - 58+10	KERN AVENUE	---	230	---	150
13+11	LT, PATH	---	---	4	---
13+12	RT, PATH	---	---	1	---
15+15 - 18+40	LT/RT	---	---	24	---
15+68	RT, DWY	---	---	3	---
15+70	LT, DWY	---	---	4	---
17+72 - 18+66	LT, PATH	---	---	15	---
18+81	LT, DWY	---	---	2	---
19+12 - 30+36	LT, PATH	---	---	201	---
21+50	RT, DWY	---	---	4	---
22+22	RT, DWY	---	---	4	---
PROJECT ID TOTALS		**1940**	**2340**	**262**	**1210**

EARTHWORK SUMMARY

DIVISION	STATION TO STATION	LOCATION	205.0100 EXCAVATION COMMON CY	SALVAGED/ UNUSABLE PAVEMENT MATERIAL CY	(6) AVAILABLE MATERIAL CY	UNEXPANDED FILL CY	(2) (4) EXPANDED FILL CY	(5) MASS ORDINATE +/- CY	(1) WASTE CY	(3) 208.0100 BORROW CY
1	12+70 - 58+10	KERN AVENUE	30902	355	30547	3412	4265	26282	26282	---
	UNDISTRIBUTED (7)		500	---	500	---	---	500	500	---
PROJECT ID TOTALS			**31402**						**26782**	**---**

(1) WASTE = EXPANDED FILL - EXCAVATION COMMON (FOR INFORMATION ONLY - NOT A BID ITEM)
(2) EXPANSION FACTOR = 1.25
(3) BORROW = EXPANDED FILL - EXCAVATION COMMON
(4) EXPANDED FILL = UNEXPANDED FILL * EXPANSION FACTOR
(5) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. MINUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. PLUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
(6) AVAILABLE MATERIAL = COMMON EXCAVATION - SALVAGED/UNUSABLE MATERIAL
(7) UNDISTRIBUTED TO ACCOUNT FOR EBS TO STRIP EXISTING TOPSOIL OVER WATER MAIN AT APPROX. STA 22+00

ALL ITEMS ON THIS SHEET
ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

3

3

REMOVING INLETS

STATION	LOCATION	204.0220 EACH
15+46	RT	1
18+53	RT	1
18+53	LT	1
PROJECT ID TOTAL		**3**

REMOVING STORM SEWER

STATION TO STATION	LOCATION	DESCRIPTION	204.0245.01 12-INCH LF	204.0245.03 18-INCH LF	204.0245.06 48-INCH LF
15+46	RT	12" SS LATERAL	16	-	-
19+16	LT	48" SS STUB	-	-	25
18+53	RT	18" SS LATERAL	-	8	-
18+53	LT	18" SS LATERAL	-	8	-
18+53	LT	18" SS LATERAL	-	14	-
PROJECT ID TOTALS			**16**	**30**	**25**

OTHER QUANTITIES LOCATED ELSEWHERE IN PLAN

ALL ITEMS ON THIS SHEET
ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

STORM SEWER PIPES

FROM - TO	608.0312 REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 REINFORCED CONCRETE CLASS III 30-INCH LF	608.0412 REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 REINFORCED CONCRETE CLASS IV 15-INCH LF	608.0418 REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0424 REINFORCED CONCRETE CLASS IV 24-INCH LF	608.3030 CLASS III-A 30-INCH LF	608.6006 COMPOSITE 6-INCH LF	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
B2 - B1	-	-	-	-	-	-	-	-	37	-	-	1116.66	1116.55	0.0030
B3 - B2	-	-	-	125	-	-	-	-	-	-	-	1117.02	1116.66	0.0029
B4.1 - B4	-	-	-	-	-	-	40	-	-	-	-	1117.99	1117.80	0.0048
B4 - B3	-	-	-	-	-	-	-	86	-	-	-	1117.58	1117.37	0.0024
B3.1 - B3	-	-	-	-	-	37	-	-	-	-	-	1118.20	1118.02	0.0049
B5.1 - B5	-	-	-	-	-	37	-	-	-	-	-	1121.80	1121.61	0.0051
B5 - B3	-	-	-	-	-	-	-	364	-	-	-	1120.60	1117.37	0.0089
C2 - C2.1	-	-	-	-	-	-	-	-	-	29	-	1124.63	1124.45	0.0062
C2.1 - C1	-	-	-	-	238	-	-	-	-	-	-	1124.45	1123.00	0.0061
C2.2 - C2	-	-	58	-	-	-	-	-	-	-	-	1129.79	1129.21	0.0100
C3 - C2	-	-	-	229	-	-	-	-	-	-	-	1126.04	1125.13	0.0040
C3.1 - C3	37	-	-	-	-	-	-	-	-	-	-	1129.78	1129.59	0.0051
C4 - C3	-	-	103	-	-	-	-	-	-	-	-	1126.80	1126.54	0.0025
C5 - C4	-	-	136	-	-	-	-	-	-	-	-	1127.24	1126.90	0.0025
C5.1 - C5	37	-	-	-	-	-	-	-	-	-	-	1127.92	1127.74	0.0049
C6 - C2	-	-	-	-	268	-	-	-	-	-	-	1125.08	1124.63	0.0017
C6.1 - C6	-	-	37	-	-	-	-	-	-	-	-	1127.99	1127.62	0.0100
C6.2 - C6.1	-	-	17	-	-	-	-	-	-	-	-	1128.16	1127.99	0.0100
C7 - C6	-	-	-	-	276	-	-	-	-	-	-	1125.55	1125.08	0.0017
C7.1 - C7	37	-	-	-	-	-	-	-	-	-	-	1128.41	1128.23	0.0049
C8 - C7	-	-	-	-	214	-	-	-	-	-	-	1125.91	1125.55	0.0017
C9 - C8	-	-	-	-	47	-	-	-	-	-	-	1126.00	1125.92	0.0017
C9.1 - C9	-	37	-	-	-	-	-	-	-	-	-	1126.93	1126.75	0.0049
C9.2 - C9.1	10	-	-	-	-	-	-	-	-	-	-	1127.23	1127.18	0.0050
C10 - C9	-	-	-	229	-	-	-	-	-	-	-	1128.71	1126.50	0.0097
C10.1 - C10	37	-	-	-	-	-	-	-	-	-	-	1129.89	1129.71	0.0049
C11 - C10	-	-	-	247	-	-	-	-	-	-	-	1129.85	1128.71	0.0046
C11.1 - C11	37	-	-	-	-	-	-	-	-	-	-	1131.68	1131.50	0.0049
C12 - C11	-	-	144	-	-	-	-	-	-	-	-	1130.78	1130.35	0.0030
C13 - C12	-	-	330	-	-	-	-	-	-	-	-	1131.77	1130.78	0.0030
C13.1 - C13	41	-	-	-	-	-	-	-	-	-	-	1132.50	1132.29	0.0051
D1 - D2	-	-	-	-	-	-	-	-	-	-	10	1116.50	1116.49	0.0010
D2 - D3	-	158	-	-	-	-	-	-	-	-	-	1116.49	1116.31	0.0011
D3 - D4	-	-	-	-	-	-	-	170	-	-	-	1116.31	1116.11	0.0012
D4 - EX D5	-	-	61	-	-	-	-	-	-	-	-	1116.11	1116.04	0.0011
D7 - EX D6	-	-	-	-	-	-	-	13	-	-	-	1117.65	1117.55	0.0077
EX D8 - D7	-	-	-	-	-	-	-	4	-	-	-	1117.66	1117.65	0.0025
D10 - EX D9	-	-	-	-	-	-	-	33	-	-	-	1118.10	1118.03	0.0021
EX E1 - E2	-	-	-	-	-	2	-	-	-	-	-	1120.50	1120.49	0.0050
E2 - E3	-	-	-	-	-	9	-	-	-	-	-	1120.56	1120.50	0.0067
E3 - EX E4	-	-	-	-	-	9	-	-	-	-	-	1120.63	1120.56	0.0078
PROJ ID TOTAL	**236**	**195**	**886**	**830**	**1043**	**94**	**40**	**670**	**37**	**29**	**10**			

OTHER QUANTITIES LOCATED ELSEWHERE IN PLAN

ALL ITEMS ON THIS SHEET
ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

STORM SEWER STRUCTURES

STRUCTURE	STATION	OFFSET*	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0540 MANHOLE COVERS TYPE K EACH	611.0624 INLET COVERS TYPE H EACH	611.2003 MANHOLES 3-FT DIAMETER EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	SPV.0060.01 INLETS 5-FT DIAMETER EACH	611.3230 INLETS 2X3-FT EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	RIM ELEVATION	INVERT** ELEVATION	DEPTH*** FT
B1	21+68	175.4' RT	1	-	-	-	-	-	-	-	-	-	1	0.00	1118.80	0
B2	21+87	143.4' RT	-	1	-	-	-	1	-	-	-	-	1	1123.00	1116.66	5.09
B3	21+86	18.5' RT	-	-	-	1	-	-	-	-	1	-	1	1120.90	1117.02	3.05
B3.1	21+86	18.5' LT	-	-	-	1	-	-	-	-	-	1	1	1120.90	1118.20	1.87
B4	21+00	20' RT	-	-	-	1	-	-	-	1	-	-	1	1120.57	1117.58	2.16
B4.1	21+00	20' LT	-	-	-	1	-	-	-	-	-	1	1	1120.69	1117.99	1.87
B5	25+50	18.5' RT	-	-	-	1	-	-	-	1	-	-	1	1126.25	1120.60	4.82
B5.1	25+50	18.5' LT	-	-	-	1	-	-	-	-	-	1	1	1126.25	1121.80	3.62
C2	34+81	14.5' RT	-	1	-	-	-	-	1	-	-	-	1	1136.44	1124.63	10.56
C3	32+50	18.5' RT	-	-	-	1	-	-	-	1	-	-	1	1134.25	1126.04	7.38
C3.1	32+50	18.5' LT	-	-	-	1	-	-	-	-	-	1	1	1134.25	1129.78	3.64
C4	31+50	18.5' RT	-	-	-	1	-	-	-	1	-	-	1	1133.41	1126.80	5.78
C5	30+18	18.5' RT	-	-	-	1	-	-	-	1	-	-	1	1132.29	1127.24	4.22
C5.1	30+18	18.5' LT	-	-	-	1	-	-	-	-	-	1	1	1132.30	1127.92	3.55
C6	37+50	18.5' RT	-	-	-	1	-	-	-	1	-	-	1	1134.62	1125.08	8.71
C6.1	37+50	18.5' LT	-	-	-	1	-	-	-	-	-	1	1	1134.62	1127.99	5.80
C7	40+25	18.5' RT	-	-	-	1	-	-	-	1	-	-	1	1132.91	1125.55	6.53
C7.1	40+25	18.5' LT	-	-	-	1	-	-	-	-	-	1	1	1132.91	1128.41	3.67
C8	42+33	18.5' RT	-	-	-	1	-	-	-	1	-	-	1	1131.76	1125.91	5.02
C9	42+78	18.5' RT	-	-	-	1	-	-	-	1	-	-	1	1131.64	1126.00	4.81
C9.1	42+78	18.5' LT	-	-	-	1	-	-	-	-	-	1	1	1131.64	1126.93	3.88
C9.2	42+68	18.4' LT	-	-	-	1	-	-	-	-	-	1	1	1131.67	1127.23	3.61
C10	45+03	18.5' RT	-	-	-	1	-	-	-	1	-	-	1	1134.22	1128.71	4.68
C10.1	45+03	18.5' LT	-	-	-	1	-	-	-	-	-	1	1	1134.22	1129.89	3.50
C11	47+50	18.5' RT	-	-	-	1	-	-	-	1	-	-	1	1136.68	1129.85	6.00
C11.1	47+50	18.5' LT	-	-	-	1	-	-	-	-	-	1	1	1136.68	1131.68	4.17
C12	48+94	18.1' RT	-	-	-	1	-	-	-	1	-	-	1	1137.60	1130.78	5.99
C13	52+25	21.2' RT	-	-	-	1	-	-	-	1	-	-	1	1137.41	1131.77	4.81
C13.1	52+32	19.8' LT	-	-	-	1	-	-	-	-	-	1	1	1137.50	1132.50	4.17
D2	20+80	185.5' RT	-		1	-	-	1	-	-	-	-	1	1118.50	1116.49	2.01
D3	20+80	27.3' RT	-	1	-	-	-	1	-	-	-	-	1	1121.30	1116.31	3.74
D4	19+17	20.4' LT	-	1	-	-	-	1	-	-	-	-	1	1121.19	1116.11	3.83
D7	18+53	33.5' LT	-	-	-	1	-	-	-	-	-	1	1	1121.23	1117.65	2.75
D10	18+53	33.5' RT	-	-	-	1	-	-	-	-	-	1	1	1121.21	1118.10	2.28
E2	15+42	40.5' RT	-	-	-	1	-	-	-	-	-	1	1	1123.61	1120.50	2.28
E3	15+46	48.1' RT	-	1	-	-	1	-	-	-	-	-	1	1123.58	1120.56	1.77
	PROJECT ID TOTAL		**1**	**5**	**1**	**29**	**1**	**4**	**1**	**13**	**1**	**15**	**36**			

REMARKS

OTHER QUANTITIES LOCATED ELSEWHERE IN PLAN

* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

** FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE

*** DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6 -INCH ADJUSTMENT RING HEIGHT

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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CONCRETE DRIVEWAY & CONCRETE SIDEWALK

STATION TO STATION	LOCATION	416.0160 DRIVEWAY 6-INCH SY	602.0405 SIDEWALK 4-INCH SF
13+11	LT	---	95
13+12	RT	---	120
13+17 - 15+53	RT	---	1234
15+25 - 15+42	LT	---	181
15+68	RT	53	---
15+70	LT	126	---
15+84 - 21+35	RT	---	2760
15+99 - 16+15	LT	---	168
18+50 - 18+66	LT	---	161
18+81	LT	71	---
18+96 - 19+12	LT	---	161
21+50	RT	54	---
21+35 - 22+07	RT	---	209
22+22	RT	54	---
22+37 - 29+54	RT	---	3676
29+96 - 44+22	RT	---	7423
30+04	LT	---	95
30+35 - 44+25	LT	---	6817
44+74 - 51+90	LT	---	3669
44+74 - 50+88	RT	---	3163
51+00	RT	34	---
51+12 - 52+34	RT	---	602
52+06	LT	42	---
52+21 - 53+61	LT	---	706
52+46	RT	25	---
52+58 - 53+61	RT	---	514
57+16 - 57+37	RT	---	217
57+81 - 57+91	RT	---	145
PROJECT ID TOTALS		**459**	**32116**

CONCRETE CURB AND GUTTER 30-INCH TYPE D

STATION TO STATION	LOCATION	601.0411 LF
13+04 - 13+17	LT	18
13+05 - 13+20	RT	22
15+15 - 53+72	LT	3825
15+15 - 53+72	RT	3873
15+68	RT, DWY	20
15+71	LT, DWY	13
18+40 - 18+67	MEDIAN	55
18+80	LT, DWY	14
19+12 - 20+60	MEDIAN	297
57+11 - 57+41	RT	44
57+81 - 58+09	RT	40
PROJECT ID TOTAL		**8181**

CURB RAMP DETECTABLE WARNING FIELD YELLOW

STATION	LOCATION	602.0505 SF
29+53	RT	10
29+97	RT	10
30+03	RT	20
30+03	LT	20
44+22	RT	10
44+24	LT	10
44+74	RT	20
44+76	LT	20
57+19	RT	10
57+35	RT	10
57+84	RT	10
57+88	RT	10
PROJECT ID TOTAL		**160**

CURB RAMP DETECTABLE WARNING FIELD RADIAL YELLOW

STATION	LOCATION	602.0605 SF
13+11	LT	29
13+11	RT	32
PROJECT ID TOTAL		**61**

RIPRAP LIGHT & GEOTEXTILE TYPE R

STATION	LOCATION	606.0100 RIPRAP CY	645.0130 GEOTEXTILE SY
44+28	RT	1	5
44+68	RT	1	5
UNDISTRIBUTED		0.5	2
TOTALS		**2.5**	**12**
PROJECT ID TOTALS		**2.5**	**132**

MOBILIZATIONS EROSION CONTROL AND EMERGENCY EROSION CONTROL

PROJECT	628.1905 EACH	628.1910 EMERGENCY EACH
8997-00-38	6	3
PROJECT ID TOTALS	**6**	**3**

CONCRETE MEDIAN SLOPED NOSE

STATION	LOCATION	TYPE	620.0300 SF
18+61	MEDIAN	TYPE 2	31
19+16	MEDIAN	TYPE 2	30
20+57	MEDIAN	TYPE 2	23
PROJECT ID TOTAL			**84**

MOBILIZATION

PROJECT	619.1000 EACH
8997-00-38	0.7
PROJECT ID TOTAL	**0.7**

WATER

LOCATION	624.0100 MGAL
BASE COMPACTION	300
DUST CONTROL	300
PROJECT ID TOTAL	**600**

SALVAGED TOPSOIL, MULCHING, FERTILIZER, & SEEDING

STATION TO STATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB
12+70 - 58+10	12208	4634	7.7	40	180	165
UNDISTRIBUTED	---	1166	2.3	10	50	45
PROJECT ID TOTALS	**12208**	**5800**	**10**	**50**	**230**	**210**

SILT FENCE

STATION TO STATION	LOCATION	628.1504 LF	628.1520 MAINTENANCE LF
19+50 - 25+00	**LT**	**550**	**550**
20+50 - 29+50	**RT**	**900**	**900**
30+00 - 32+00	**RT**	**200**	**200**
34+00 - 46+50	**RT**	**1250**	**1250**
44+13 - 44+83	**LT**	**70**	**70**
47+00 - 51+85	**LT**	**485**	**485**
49+00 - 50+75	**RT**	**175**	**175**
UNDISTRIBUTED		690	690
PROJECT ID TOTALS		**4320**	**4320**

ALL ITEMS ON THIS SHEET
ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

PERMANENT SIGNING

SIGN NO	APPROX STATION LOCATION	SIGN CODE	SIGN SIZE WxH (INCHES)	634.0612 12-FT EACH	634.0614 POSTS WOOD 14-FT EACH	634.0616 4X6-INCH 16-FT EACH	634.0618 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENT
49	16+00, RT	W4-2R	36 X 36	---	---	1	---	---	9.00	---	---	---	
50	12+99, MEDIAN	R4-7	24 X 30	---	---	---	1	5.00	---	---	---	---	
51		D11-1	24 X 18	---	---	---	---	3.00	---	---	1	1	SHARE POST W/R4-7
		MK6-4	12 X 12	---	---	---	---	1.00	---	---	---	---	SHARE POST W/R4-7
52	13+04, PATH	R1-1	18 X 18	1	---	---	---	1.86	---	---	1	1	
53	13+18, PATH	R1-1	18 X 18	1	---	---	---	1.86	---	---	---	---	
54	13+18, LT	D11-1	24 X 18	---	1	---	---	3.00	---	---	1	1	
		MK6-4	12 X 12	---	---	---	---	1.00	---	---	---	---	SHARE POST W/D11-1
55	13+25, LT	R5-1	30 X 30	---	---	---	---	6.25	---	---	1	---	ATTACH TO SIGNAL
56		R1-1F	30 X 30	---	---	---	---	5.18	---	---	1	---	ATTACH TO SIGNAL
57	13+25, MEDIAN	D11-1	24 X 18	---	1	---	---	3.00	---	---	1	1	
		MK6-4	12 X 12	---	---	---	---	1.00	---	---	---	---	SHARE POST W/D11-1
58	14+91, RT	R5-1	30 X 30	---	1	---	---	6.25	---	---	---	---	
59	14+91, RT	D11-6		---	---	---	---	---	---	---	1	1	
60	15+14, LT	R3-8-W	54 X 30	---	2	---	---	11.25	---	---	---	---	
61	15+25, PATH	R5-3	24 X 24	1	---	---	---	4.00	---	---	1	1	
62	15+35, PATH	R1-1	18 X 18	1	---	---	---	1.86	---	---	1	1	
63	15+25, MEDIAN	R4-7	24 X 30	---	1	---	---	5.00	---	---	---	---	
64	16+13, PATH	R1-1	18 X 18	1	---	---	---	1.86	---	---	1	1	
65	16+13, PATH	R5-3	24 X 24	---	1	---	---	4.00	---	---	1	1	
66	16+13, PATH	D11-1	24 X 18	---	---	---	---	3.00	---	---	1	1	SHARE POST W/R5-3
		MK6-4	12 X 12	---	---	---	---	1.00	---	---	---	---	SHARE POST W/R5-3
67	16+13, MEDIAN	R4-7	24 X 30	---	1	---	---	5.00	---	---	---	---	
68	16+30, LT	R5-1	30 X 30	---	---	1	---	6.25	---	---	1	1	
69		W3-3	36 X 36	---	---	---	---	---	9.00	---	1	1	SHARE POST W/R5-1
70	16+30, LT	D11-6		---	---	---	---	---	---	---	1	1	
71	18+55, PATH	R5-3	24 X 24	1	---	---	---	4.00	---	---	---	---	
72	18+60, PATH	R1-1	18 X 18	1	---	---	---	1.86	---	---	---	---	
73	18+60, MEDIAN	R4-7	24 X 30	---	1	---	---	5.00	---	---	---	---	
74	19+00, PATH	R1-1	18 X 18	1	---	---	---	1.86	---	---	---	---	
75	19+08, PATH	R5-3	24 X 24	1	---	---	---	4.00	---	---	---	---	
76	19+17, MEDIAN	R4-7	24 X 30	---	1	---	---	5.00	---	---	---	---	
77	19+38, LT	R5-1	30 X 30	---	1	---	---	6.25	---	---	---	---	
78	20+57, MEDIAN	R4-7	24 X 30	---	1	---	---	5.00	---	---	---	---	
79	20+68, RT	R5-1	30 X 30	---	1	---	---	6.25	---	---	---	---	
80	21+95, RT	R2-1	36 X 36	---	---	1	---	5.00	---	---	---	---	"25 MPH"
81	23+00, LT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
82	23+00, RT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
83	26+00, LT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
84	26+00, RT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
85	26+75, RT	S4-51	24 X 48	---	---	---	1	6.62	1.38	---	---	---	"15 MPH"
		S16-9P	24 X 12	---	---	---	---	---	2.00	---	---	---	SHARE POST W/S1-1
		R2-6P	24 X 18	---	---	---	---	3.00	---	---	---	---	SHARE POST W/S1-1
86	28+00, RT	S4-51	24 X 48	---	---	1	---	6.62	1.38	---	---	---	"15 MPH"
87	28+50, LT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
88	28+50, RT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
89	29+95, LT	S1-1	36 X 36	---	---	1	---	---	6.75	---	---	---	
		S16-7L	24 X 12	---	---	---	---	---	2.00	---	---	---	SHARE POST W/S1-1
90	30+13, RT	S1-1	36 X 36	---	---	1	---	---	6.75	---	---	---	
		S16-7L	24 X 12	---	---	---	---	---	2.00	---	---	---	SHARE POST W/S1-1
91	31+00, LT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
92	31+00, RT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	

- CONTINUED -

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PERMANENT SIGNING

SIGN NO	APPROX STATION LOCATION	SIGN CODE	SIGN SIZE WxH (INCHES)	634.0612 12-FT EACH	634.0614 POSTS WOOD 14-FT EACH	634.0616 4X6-INCH 16-FT EACH	634.0618 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENT
93	32+00, LT	S4-51	24 X 48	---	---	1	---	6.62	1.38	---	---	---	"15 MPH"
94	33+25, LT	S1-1	36 X 36	---	---	---	1	6.62	1.38	---	---	---	"15 MPH"
		S16-9P	24 X 12	---	---	---	---	---	2.00	---	---	---	SHARE POST W/S1-1
		R2-6P	24 X 18	---	---	---	---	3.00	---	---	---	---	SHARE POST W/S1-1
95	35+00, LT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
96	35+00, RT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
97	38+00, LT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
98	38+00, RT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
99	41+00, LT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
100	41+00, RT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
101	41+50, RT	S1-1	36 X 36	---	---	---	1	---	6.75	---	---	---	
		S16-9P	24 X 12	---	---	---	---	---	2.00	---	---	---	SHARE POST W/S1-1
		R2-6P	24 X 18	---	---	---	---	3.00	---	---	---	---	SHARE POST W/S1-1
102	42+75, RT	S4-51	24 X 48	---	---	1	---	6.62	1.38	---	---	---	"15 MPH"
103	43+50, LT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
104	43+50, RT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
105	29+25, LT	S5-2	24 X 30	---	1	---	---	5.00	---	---	---	---	
106	46+00, LT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
107	46+00, RT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
108	46+80, LT	S4-51	24 X 48	---	---	1	---	6.62	1.38	---	---	---	"15 MPH"
109	50+00, LT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
110	50+00, RT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
111	53+00, LT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
112	53+00, RT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
113	54+87, LT	R2-1	24 X 30	---	1	---	---	5.00	---	---	---	---	"25 MPH"
114	55+00, RT	S4-51	24 X 48	---	---	1	---	6.62	1.38	---	---	---	"15 MPH"
115	55+50, RT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
116	56+00, LT	R7-1-D	18 X 24	---	1	---	---	3.00	---	---	---	---	
117	56+00, RT	S5-2	24 X 30	---	1	---	---	5.00	---	---	---	---	
118	56+75, LT	S1-1	36 X 36	---	---	---	1	---	6.75	---	---	---	
		S16-9P	24 X 12	---	---	---	---	---	2.00	---	---	---	SHARE POST W/S1-1
		R2-6P	24 X 18	---	---	---	---	3.00	---	---	---	---	SHARE POST W/S1-1
119	57+11, RT	R1-1	30 X 30	---	---	1	---	5.18	---	---	1	1	
		R1-3-P	18 X 6	---	---	---	---	0.75	---	---	---	---	SHARE POST W/R1-1
220	85+62, LT	R1-1	30 X 30	---	---	1	---	5.18	---	---	1	1	
		R1-3-P	18 X 6	---	---	---	---	0.75	---	---	---	---	SHARE POST W/R1-1
221		STREET SIGN		---	---	---	---	---	---	1	---	---	SHARE POST W/R1-1
222		STREET SIGN		---	---	---	---	---	---	1	---	---	SHARE POST W/R1-1
223	57+95, LT	R1-1	30 X 30	---	---	1	---	5.18	---	---	1	1	
		R1-3-P	18 X 6	---	---	---	---	0.75	---	---	---	---	SHARE POST W/R1-1
PROJECT ID TOTALS				**9**	**40**	**13**	**5**	**288.97**	**66.66**	**2**	**18**	**16**	

ALL ITEMS ON THIS SHEET
ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

INLET PROTECTION

STATION	LOCATION	628.7005 TYPE A EACH	628.7015 TYPE C EACH
15+15	LT	---	1
15+22	RT	---	1
15+42	RT	1	1
18+52	RT	1	1
18+52	LT	1	1
18+53	RT	1	1
18+53	LT	1	1
19+17	LT	1	---
20+80	RT	1	---
20+80 (POND)	RT	1	---
21+00	RT	1	1
21+00	LT	1	1
21+86	RT	1	1
21+86	LT	1	1
25+50	RT	1	1
25+50	LT	1	1
30+18	RT	1	1
30+18	LT	1	1
31+50	RT	1	1
32+50	RT	1	1
32+50	LT	1	1
34+81	RT	1	---
37+50	RT	1	1
37+50	LT	1	1
40+25	RT	1	1
40+25	LT	1	1
42+33	RT	1	1
42+68	LT	1	1
42+78	RT	1	1
42+78	LT	1	1
45+03	RT	1	1
45+03	LT	1	1
47+50	RT	1	1
47+50	LT	1	1
48+94	RT	1	1
52+25	RT	1	1
52+32	LT	1	1
UNDISTRIBUTED		---	4
PROJECT ID TOTALS		**35**	**37**

EROSION MAT URBAN CLASS I TYPE A

STATION TO STATION	LOCATION	628.2006 SY
13+00 - 13+30	LT	11
13+19 - 29+50	RT	1780
15+15 - 44+25	LT	2870
18+40 - 18+65	MEDIAN	25
19+15 - 20+59	MEDIAN	157
24+50 - 25+00	LT	44
30+08 - 44+25	RT	1512
44+80 - 53+72	RT	568
44+80 - 53+72	LT	607
UNDISTRIBUTED		1511
PROJECT ID TOTAL		**9085**

FIELD OFFICE TYPE B

PROJECT	642.5001 EACH
8997-00-38	0.5
PROJECT ID TOTAL	

MARKING LINE EPOXY

STATION TO STATION	DESCRIPTION	646.1020 4-INCH WHITE LF	646.1020 4-INCH YELLOW LF	646.3020 8-INCH WHITE LF
MAIN ST	DOTTED LANE LINE	---	23	---
MAIN ST	CHANNELIZING	---	---	14
13+17 - 16+00	DASHED LANE LINE, RT	71	---	---
13+21 - 14+21	CHANNELIZING, LT	---	---	100
13+21 - 14+21	CHANNELIZING, LT	---	---	100
14+21 - 15+35	DOTTED LANE LINE, LT	---	---	37
14+26 - 15+26	CHANNELIZING, RT	---	---	100
15+35 - 16+97	DASHED LANE LINE, LT	42	---	---
16+00 - 16+75	DOTTED LANE LINE, RT	25	---	---
16+14 - 16+97	CHANNELIZING, LT	---	---	83
17+84 - 18+59	CHANNELIZING, RT	---	---	75
20+62 - 57+11	DOUBLE YELLOW CENTERLINE	---	7380	---
57+95 - 58+10	DOUBLE YELLOW CENTERLINE	---	30	---
85+62 - 85+64	DOUBLE YELLOW CENTERLINE	---	4	---
SUBTOTALS		**138**	**7437**	**509**
PROJECT ID TOTALS			**7575**	**509**

TRAFFIC CONTROL ITEMS

PROJECT	BARRICADES EACH	643.0420 TYPE III DAY	WARNING LIGHTS EACH	643.0705 TYPE A DAY	SIGNS EACH	643.0900 SIGNS DAY	643.5000 TRAFFIC CONTROL EACH
8997-00-38	8	632	16	1264	6	474	1
UNDISTRIBUTED		168		336		126	---
PROJECT ID TOTALS		**800**		**1600**		**600**	**1**

ALL ITEMS ON THIS SHEET
ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

MARKING ARROW EPOXY

STATION	TYPE	COLOR	646.5020 EACH
13+45	2	WHITE	2
13+45	1	WHITE	1
13+98	2	WHITE	2
13+98	1	WHITE	1
14+50	2	WHITE	1
15+00	2	WHITE	1
15+08	2	WHITE	1
16+75	2	WHITE	1
18+08	2	WHITE	1
PROJECT ID TOTAL			**11**

MARKING STOP LINE EPOXY 18-INCH

STATION	LOCATION	646.6120 LF
	MAIN ST	36
13+21	LT	21
57+11	RT	20
57+95	LT	22
85+62	LT	21
PROJECT ID TOTAL		**120**

MARKING CURB EPOXY

STATION	LOCATION	646.8120 YELLOW LF
18+61	MEDIAN	28
19+16	MEDIAN	50
20+57	MEDIAN	10
PROJECT ID TOTAL		**88**

MARKING ISLAND NOSE EPOXY

STATION	LOCATION	646.8220 YELLOW EACH
18+61	MEDIAN	1
19+16	MEDIAN	1
20+57	MEDIAN	1
PROJECT ID TOTAL		**3**

MARKING CROSSWALK EPOXY

STATION	LOCATION	646.7420 TRANSVERSE LINE 6-INCH LF
	MAIN ST	85
	MAIN ST	78
13+12	LT/RT	207
15+70	LT, DWY	114
18+81	LT, DWY	60
29+75	RT	73
30+04		74
44+50	LT	83
44+50	RT	84
44+75		91
57+18		84
57+88		106
85+55	E SOUTH ST	83
PROJECT ID TOTALS		**1222**

CONSTRUCTION STAKING CURB RAMPS

STATION	LOCATION	650.9000 EACH
13+11	LT	1
13+11	RT	1
29+53	RT	1
30+00	RT	1
30+03	LT	1
44+22	RT	1
44+24	LT	1
44+74	RT	1
44+76	LT	1
57+19	RT	1
57+35	RT	1
57+84	RT	1
57+88	RT	1
PROJECT ID TOTAL		**13**

CONSTRUCTION STAKING

STATION TO STATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.8000 RESURFACING REFERENCE LF	650.9920 SLOPE STAKES LF
12+70 - 18+40	---	---	570	---
18+40 - 53+72	3532	3532	---	3532
53+72 - 58+10	---	---	438	---
PROJECT ID TOTALS	**3532**	**3532**	**1008**	**3532**

CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER

STATION TO STATION	LOCATION	650.5500 LF
13+04 - 13+17	LT	18
13+05 - 13+20	RT	22
15+15 - 53+72	LT	3857
15+15 - 53+72	RT	3777
15+68	RT, DWY	20
15+71	LT, DWY	13
18+40 - 18+67	MEDIAN	55
18+80	LT, DWY	14
19+12 - 20+60	MEDIAN	297
57+11 - 57+41	RT	44
57+81 - 58+09	RT	40
PROJECT ID TOTAL		**8117**

SAWING

STATION TO STATION	LOCATION	690.0150 ASPHALT LF	690.0250 CONCRETE LF
12+70	MAIN ST	252	---
13+11	LT, CURB & SIDEWALK	20	5
13+11	RT, CURB & SIDEWALK	10	5
15+15 - 18+40	RT, CURB & ROADWAY	354	5
15+15 - 18+40	LT, CURB & ROADWAY	343	5
15+25	LT, PATH	10	---
15+68	RT, DRIVEWAY & CURB	26	5
15+70	LT, DRIVEWAY & CURB	53	5
16+15	LT, PATH	10	---
17+72	LT, PATH	10	---
18+81	LT, DRIVEWAY & CURB	26	5
29+75	RT, MOON LAKE DR	30	---
52+06	LT, DRIVEWAY	31	---
53+72	KERN AVE	40	5
57+30	RT, CURB & SIDEWALK	---	15
57+10 - 57+40	E SOUTH ST	42	---
57+87	RT, CURB & SIDEWALK	---	10
57+80 - 58+06	KERN AVE	46	---
PROJECT ID TOTALS		**1303**	**65**

CONSTRUCTION STAKING SUPPLEMENTAL CONTROL

PROJECT	650.9910.02 LS
8997-00-38	1

ALL ITEMS ON THIS SHEET
ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

3

CONNECT TO EXISTING STORM

STATION	LOCATION	DESCRIPTION	SPV.0060.03 STRUCTURE EACH	SPV.0060.04 PIPE EACH
15+41	38.7' RT	EX E1	-	1
15+41	56.0' RT	EX E4	-	1
18+52	1' RT	EX D9	1	-
18+53	29.5' LT	18" RCP	-	1
18+53	46.6' LT	18" RCP	-	1
19+16	81.2' LT	EX D5	1	-
PROJECT ID TOTAL			**2**	**4**

STORM MANHOLE OVERFLOW GRATE

STATION	LOCATION	DESCRIPTION	SPV.0060.05 EACH
21+25	210' RT	WEST POND	1
PROJECT ID TOTAL			**1**

PIPE UNDERDRAIN

STATION	LOCATION	DESCRIPTION	612.0206 UNPERFORATED 6-INCH LF	612.0406 WRAPPED 6-INCH LF
18+53 TO 53+72	35.5' RT	BEHIND RIGHT CURB	-	3554
15+53 TO 53+72	35.5' LT	BEHIND LEFT CURB	-	3487
20+80	-	STREET CROSSING	50	-
PROJECT ID TOTAL			**50**	**7041**

HDPE LINER

STATION	LOCATION	DESCRIPTION	SPV.0180.01 SY
21+25	210' RT	WEST POND	1472
PROJECT ID TOTAL			**1472**

STORM SEWER PLUG

STATION	LOCATION	DESCRIPTION	SPV.0060.02 EACH
34+82	43.5' LT	18" RCP	1
37+50	44.2' LT	18" RCP	1
PROJECT ID TOTAL			**2**

RIPRAP

STATION	LOCATION	DESCRIPTION	606.0200 RIPRAP MEDIUM CY
21+68	175' RT	AE B1	60
20+80	186' RT	D2 6-INCH PIPE	6
PROJECT ID TOTAL			**66**

BACKFILL GRANULAR SAND

STATION	LOCATION	DESCRIPTION	209.1100 GRADE 1 CY
21+25	210' RT	1' COVER ABOVE LINER	491
PROJECT ID TOTAL			**491**

EROSION MAT

STATION	LOCATION	DESCRIPTION	628.2004 CLASS I, TYPE B SY
21+15	200' RT	WEST POND	1104
PROJECT ID TOTAL			**1104**

GEOTEXTILE FABRIC

STATION	LOCATION	DESCRIPTION	645.0130 TYPE R SY
21+68	175' RT	AE B1	100
20+80	186' RT	D2 6-INCH PIPE	20
TOTAL			**120**
PROJECT ID TOTAL			**132**

OTHER QUANTITIES LOCATED ELSEWHERE IN PLAN

ALL ITEMS ON THIS SHEET
ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

3

SANITARY SEWER MANHOLES

MANHOLE NO.	STATION	LOCATION	SPV.0060.17 SANITARY MANHOLE WITH CASTING EACH	SPV.0200.01 SANITARY MANHOLE EXTRA DEPTH VF	SPV.0060.21 ADJUST SANITARY MANHOLE CASTING EACH	SPV.0060.22 LOW-PROFILE SANITARY MANHOLE CASTING EACH
EX	16+07.00	50.00' RT			1	
EX	19+23.00	50.00' RT			1	
3	25+00.00	CL	1		1	
2	27+25.00	CL	1	4.1	1	
1	29+74.86	13.32' RT	1	7.5	1	
4	31+50.00	6.10' RT	1	8.1	1	
5	34+68.03	2.06' LT	1	9.8	1	
6	37+67.88	CL	1	6.8	1	
7	40+50.00	1.63' RT	1	3.8	1	
8	42+45.00	12.00' RT	1	1.6	1	
9	44+48.76	CL	1	2.8	1	
10	48+49.00	CL	1	5.0	1	
11	51+00.00	CL	1	4.5	1	
EX 12	51+70.00	3.3' RT			1	1
EX 13	53+59.00	3.8' RT			1	
	ITEM TOTAL		11	53.9	15	1

WATER MAIN PIPE

STATION		LOCATION	SPV.0090.01 WATER MAIN 6-INCH LF	SPV.0090.02 WATER MAIN 8-INCH LF
24+26.00 -	27+24.18	10.00' LT		298
26+47.00		43.00' RT	53	
27+24.18 -	29+75.00			247
29+75.00 -	31+50.00			174
29+78.00		25.50' LT	2	25
29+84.00		35.00' RT		34
31+50.00 -	34+67.00			318
34+67.00 -	40+50.00			582
34+75.00			2	12
40+00.00			2	33
40+50.00 -	42+45.00			193
42+45.00 -	44+62.00			212
44+58.00		58.00' RT	14	68
44+60.00		58.00' LT		48
44+62.00 -	51+85.00			724
50+00.00			13	
ITEM TOTAL			86	2968

WATER MAIN FITTINGS

STATION	LOCATION	SIZE	TYPE	SPV.0085.01 WATER MAIN FITTINGS LB
26+47.00	10.00' LT	8"x 6"	TEE	72
26+47.00	43.00' LT	6"	PLUG	16
27+24.18	10.00' LT	8"	11 ¼° BEND	42
29+75.00	3.00' RT	8"	22 ½° BEND	46
29+78.00	1.50' RT	8"x 8"	CROSS	105
29+78.00	23.00' LT	8"x 6"	REDUCER	36
29+84.60	11.30' RT	8"	11 ¼° BEND	42
31+50.00	4.10' LT	8"	22 ½° BEND	46
34+63.00	12.40' LT	8"	11 ¼° BEND	42
34+75.00	11.50' LT	8"x 6"	TEE	72
34+75.00	23.00' LT	8"x 6"	REDUCER	36
40+00.00	10.00' LT	8"x 6"	TEE	72
40+00.00	23.00' RT	8"x 6"	REDUCER	36
40+50.00	8.50' LT	8"	11 ¼° BEND	42
42+45.00	1.60' RT	8"	22 ½° BEND	46
44+58.00	42.00' RT	8"x 6"	TEE	72
44+58.00	58.00' RT	8"	PLUG	26
44+59.00	10.00' LT	8"x 8"	CROSS	105
44+60.00	58.00' LT	8"	PLUG	26
50+00.00	10.00' LT	8"x 6"	TEE	72
UNDISTRIBUTED				250
ITEM TOTAL				1302

SANITARY SEWER PIPE

STATION		LOCATION	SPV.0090.04 PVC SANITARY SEWER 8-INCH LF	SPV0090.05 SEWER 10-INCH LF	SPV.0060.19 CONNECT TO EXISTING SANITARY SEWER EACH	SPV.0090.08 TELEVISE SANITARY SEWER LF
25+00.00 -	27+25.00	CL	225			225
27+25.00 -	29+74.86	LT	251			251
29+74.86 -	31+50.00	RT	178			178
29+74.86 -	SOUTH	27.00' RT		13	1	
31+50.00 -	34+68.03	CL	319			319
34+68.03 -	37+67.88	CL	300			300
37+67.88 -	40+50.00	LT-RT	282			282
40+50.00 -	42+45.00	LT-RT	197			197
42+45.00 -	44+48.76	CL	205			205
44+48.76 -	48+49.00	CL	400			400
44+48.76 -	WEST	60.00' LT	60			
44+48.76 -	EAST	60.00' RT	60			
48+49.00 -	51+00.00	CL	251			251
ITEM TOTAL			2728	13	1	2608

WATER MAIN ITEMS

STATION	LOCATION	SPV.0060.07 CONNECT TO EXISTING WATER MAIN EACH	SPV.0060.08 WATER MAIN GATE VALVE AND BOX 6-INCH EACH	SPV.0060.09 8-INCH EACH	SPV.0060.10 FIRE HYDRANT 8.5-FOOT BURY EACH	SPV.0060.26 FIRE HYDRANT 9.5-FOOT BURY EACH	SPV.0060.11 SALVAGE EXISTING HYDRANT EACH	SPV.0060.12 INSTALL SALVAGED HYDRANT EACH	SPV.0060.15 ADJUST GATE VALVE BOX EACH	612.0902.S.01 INSULATION BOARD POLYSTYRENE, 2-INCH SY
19+36.00	53.00' LT								1	
24+26.00	10.00' LT	1							2	
25+50.00	10.00' LT									7
26+47.00	7.00' LT		1						1	
29+75.00	1.00' RT			1					1	
29+78.00	25.50' LT						1			
29+82.70	RT/LT			2					2	
29+84.40	35.1' RT	1					1			
30+20.00	5.00' LT									7
34+72.00	25.50' LT			2		1			2	7
37+50.00	10.00' LT									7
40+35.00	25.50' RT			2		1			2	7
42+78.00	6.00' LT									7
44+62.00	10.00' LT			3					3	7
44+71.50	42.00' RT		1		1				1	
47+50.00	10.00' LT									7
50+00.00	22.50' LT		1	1				1	2	
51+85.00	7.00' LT	1					1		1	
53+62.00	7.00' LT								1	
55+80.00	14.80' LT								1	
57+26.00	10.00' LT								1	
UNDISTRIBUTED										16
ITEM TOTAL		3	3	11	1	2	2	2	21	72

SANITARY SEWER SERVICE

STATION	LOCATION	SPV0060.18 SANITARY SEWER SERVICE WYE 8-INCH x 6-INCH EACH	SPV0060.20 CONNECT TO EXISTING SANITARY SERVICE WYE EACH	SPV0090.06 PVC SANITARY SEWER SERVICE 4-INCH LF	SPV0090.07 6-INCH LF
25+10.00	43.00' RT	1			43
25+25.00	57.00' LT	1			57
26+55.00	43.00' RT	1			73
29+52.00	55.00' LT	1			66
32+00.00	50.00' RT	1			53
34+63.00	50.00' LT	1			55
36+75.00	50.00' RT	1			55
40+45.00	50.00' LT	1			50
40+75.00	50.00' RT	1			50
50+20.00	38.00' RT	1		40	
51+63.00	38.00' RT		1	38	
ITEM TOTAL		10	1	78	502

WATER SERVICES

STATION	LOCATION	SPV.0060.13 CORPORATION STOP 1-INCH EACH	SPV.0060.24 1 1/2-INCH EACH	SPV.0060.14 CURB STOP AND BOX 1-INCH EACH	SPV.0060.25 1 1/2-INCH EACH	SPV.0060.16 ADJUST EXISTING CURB BOX EACH	SPV.0090.03 COPPER WATER SERVICE 1-INCH LF	SPV.0090.09 1 1/2-INCH LF	612.0902.S.01 INSULATION BOARD POLYSTYRENE, 2-INCH SY
20+62.00	27.50' RT					1			7
23+23.00	23.50' RT					1			
24+90.00	52.00' RT		1		1			53	7
50+25.00	33.00' RT	1		1			48		7
51+59.00	33.00' RT	1		1			46		7
ITEM TOTAL		2	1	2	1	2	94	53	28
CATEGORY TOTAL		2	1	2	1	2	94	53	100

ALL ITEMS ON THIS SHEET ARE CATEGORY 0020 UNLESS OTHERWISE NOTED

PROJECT NO:8997-00-38	HWY:KERN AVENUE	COUNTY:BARRON	MISCELLANEOUS QUANTITIES	SHEET	E

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), BARRON COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS WITH PLASTIC CAPS), UNLESS OTHERWISE NOTED, WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR EAST SOUTH STREET IS ESTABLISHED FROM PART OF OUTLOTS 245, 246, AND 260 OF OUTLOTS - CITY OF RICE LAKE PLAT, VOL. 8, PG 33-39, DOC. #218068, MOULLETTE COMMERCIAL ADDITION VOL. 1 OF MAP CABINET, PG. 56-A, DOC #447170, TAINTER'S ADDITION VOL. 1 OF MAP CABINET, PG. 122-B, DOC #660551 AND A PRESUMED 66' WIDTH CENTERED ON THE CENTERLINE OF THE TRAVELED ROADWAY FOR EAST SOUTH STREET PER STATE STATURE 82.31(2).

EXISTING HIGHWAY RIGHT-OF-WAY FOR MANWARING AVENUE IS ESTABLISHED FROM CSM 4602 VOL. 32, PG. 45, DOC #658691, DEED IN VOL. 461, PG. 491 AND CSM 1496 VOL. 11, PG. 83, DOC #445361.

EXISTING HIGHWAY RIGHT-OF-WAY FOR CARRIE AVENUE IS ESTABLISHED FROM MOULLETTE COMMERCIAL ADDITION VOL. 1 OF MAP CABINET, PG. 56-A DOC #447170, CSM 2525 VOL. 18, PG. 16, DOC #504213 AND CSM 3154 VOL. 22, PG. 59, DOC #547928

EXISTING HIGHWAY RIGHT-OF-WAY FOR KERN AVENUE IS ESTABLISHED FROM PART OF OUTLOTS - CITY OF RICE LAKE PLAT, VOL. 8, PG. 33-39, DOC #218068, CSM 3792 VOL. 26, PG. 127, DOC #595041, AND CSM 3154 VOL. 22, PG. 59, DOC #547928

A **TEMPORARY LIMITED EASEMENT** (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES. AS DEFINED HEREIN. INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLES EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) — W (TYPE)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING — TO BE REMOVED
BRIDGE

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED) IP
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN — SIGN
OFF-PREMISE SIGN — I-25 — SIGN

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE	■	□
TELEPHONE POLE	●	○
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)	✱	⊗

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER 25 — UTILITY NUMBER 40
TLE POINT NUMBER 25
PARALLEL OFFSETS

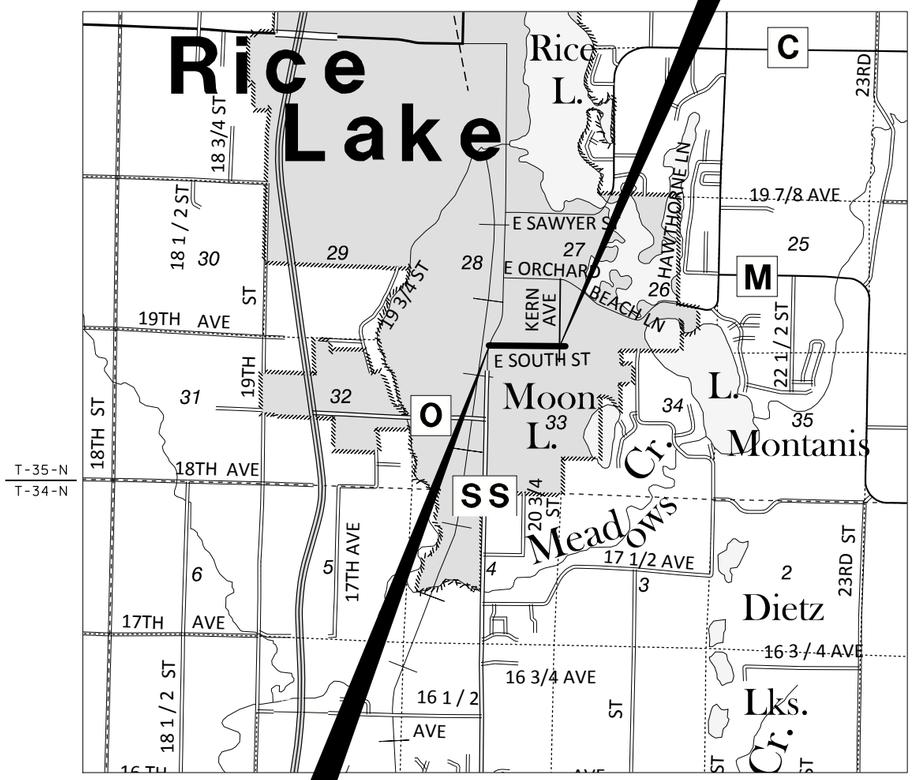
CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF CURVATURE	PC
ACRES	AC	POINT OF COMPOUND CURVE	PCC
AHEAD	AH	POINT OF INTERSECTION	PI
ALUMINUM	ALUM	PROPERTY LINE	PL
AND OTHERS	ET AL	RECORDED AS	(100')
BACK	BK	REFERENCE LINE	R/L
BLDG	BLDG	REMAINING	REM
BLOCK	BLK	RIGHT	RT
CENTERLINE	C/L	RIGHT OF WAY	R/W
CERTIFIED SURVEY MAP	CSM	SECTION	SEC
CONCRETE	CONC	SEPTIC VENT	SEPV
COUNTY	CO	SQUARE FEET	SF
COUNTY TRUNK HIGHWAY	CTH	STATE TRUNK HIGHWAY	STH
DISTANCE	DIST	STATION	STA
CORNER	COR	SUBDIVISION	SUBD
DOCUMENT NUMBER	DOC	TANGENT	TAN
EASEMENT	EASE	TELEPHONE PEDESTAL	TP
EXISTING	EX	TEMPORARY LIMITED EASEMENT	TLE
GAS VALVE	GV	TRANSPORTATION PROJECT PLAT	TPP
GRID NORTH	GN	UNITED STATES HIGHWAY	USH
HIGHWAY EASEMENT	HE	VOLUME	V
HOUSE	HSE		
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		

CURVE DATA

LONG CHORD	LC
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	Δ
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

R-12-W | R-11-W



BEGIN RELOCATION ORDER PROJECT 8997-00-35
STA. 60+32.63
Y = 126,397.170
X = 335,130.035
LOCATED 101.14' EAST AND 3.01' NORTH OF THE NORTH 1/4 CORNER OF SECTION 33, T 35 N, R 11 W.

LAYOUT SCALE 0 — 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 0.464 MI.

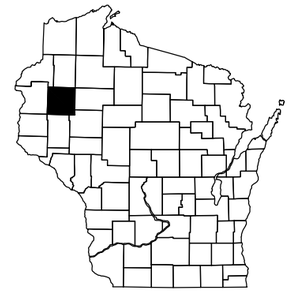
END RELOCATION ORDER PROJECT 8997-00-35
STA. 84+80.60
Y = 126,376.426
X = 337,577.920
LOCATED 32.56" WEST AND 0.03' NORTH OF THE NORTHEAST CORNER OF SECTION 33, T 35 N, R 11 W.

N

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
8997-00-35	4.01	4
FEDERAL PROJECT NUMBER ----------		

PLAT OF RIGHT-OF-WAY REQUIRED FOR
CITY OF RICE LAKE
EAST SOUTH STREET
(MAIN STREET TO KERN AVENUE)
LOCAL STREET — BARRON COUNTY

CONSTRUCTION PROJECT NUMBER
8997-00-36



ACCEPTED FOR
CITY OF RICE LAKE

(Date) _____ Public Works Director

ORIGINAL PLAT PREPARED BY
AYRES ASSOCIATES

THIS SURVEY IS PREPARED AT THE REQUEST OF THE CITY OF RICE LAKE.

THE FIELD SURVEY WAS PERFORMED IN MARCH/APRIL 2016.

THIS SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

WISCONSIN
James R. Cappeart S-3044 Green Bay Wis.
LAND SURVEYOR

(SIGNATURE) James Cappeart
DATE: 6/27/2017
(PRINTED NAME) JAMES R. CAPPEART
(REGISTRATION NUMBER) S-3044

REVISION DATE

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\RW\89970000_RWPL_TITLESHEET.DWG PLOT DATE : JUNE 2017 PLOT BY : AYRES ASSOCIATES PLOT NAME :

WISDOT/CADDS SHEET 10

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSED ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE CITY.

AREAS SHOWN IN THE TOTAL AC. COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

4

4

PARCEL NUMBER	SHEET NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
1	4.03	ADVANCED RESTORATION OF NW WISCONSIN INC	TLE	--------	--------	--------	0.04
2	4.03	AARON M. & KRISTA L. RESNICK	TLE	--------	--------	--------	0.08
3	4.03	COURTESY CORPORATION	TLE	--------	--------	--------	0.01
4	4.03	SOUTH LAKE MOTORS INC	TLE	--------	--------	--------	0.02
5							
6	4.03	J & S WOODS PROPERTIES LLC	TLE	--------	--------	--------	0.01
7	4.03	FARM & FLEET OF RICE LAKE, INC.	TLE	--------	--------	--------	0.03
8	4.04	DONALD R. & SUZANNE TORGERSON	TLE	--------	--------	--------	0.01
9	4.04	CHARLES F. & PAULA R. LAWRENCE	TLE	--------	--------	--------	0.04
10	4.04	EVELYN M. BURTON FAMILY, LLC & DENNIS E. OSTLIE	TLE	--------	--------	--------	0.01
11	4.04	KEYSTONE RICE LAKE LLC	TLE	--------	--------	--------	0.04
12	4.04	JASON A. DEROUSSEAU	TLE	--------	--------	--------	0.02
13	4.04	LOREN J. & PAMELA A. KALLA	TLE	--------	--------	--------	0.02
50	4.03 & 4.04	CENTURYLINK	RELEASE OF RIGHTS				
51	4.03	RICE LAKE UTILITIES	RELEASE OF RIGHTS				
52	4.03	CHARTER COMMNICATIONS	RELEASE OF RIGHTS				
53	4.03	MOSAIC TELECOM	RELEASE OF RIGHTS				

REVISION DATE	DATE 06/27/2017	SCALE. FEET	HWY: LOCAL STREET	STATE R/W PROJECT NUMBER 8997-00-35	PLAT SHEET 4.02	
	GRID FACTOR: NA	NO SCALE	COUNTY: BARRON	CONSTRUCTION PROJECT NUMBER 8997-00-36	PS&E SHEET 78	E

FILE NAME : 89970000_RWPL_TITLESHEET.DWG PLOT DATE : JUNE 2017 PLOT BY : AYRES ASSOCAITES PLOT NAME : PLOT SCALE : NA

WISDOT/CADDS SHEET 75

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), BARRON COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT-OF-WAY FOR EAST SOUTH STREET IS ESTABLISHED FROM PART OF OUTLOTS 245, 246 AND 260 OF OUTLOTS - CITY OF RICE LAKE PLAT, VOL. 8, PG 33-39, DOC. #218068, MOULLETTE COMMERCIAL ADDITION VOL. 1 OF MAP CABINET, PG. 56-A, DOC #447170 AND A PRESUMED 66' WIDTH CENTERED ON THE CENTERLINE OF THE TRAVELED ROADWAY FOR EAST SOUTH STREET PER STATE STATURE 82.31(2).

EXISTING HIGHWAY RIGHT-OF-WAY FOR MANWARING AVENUE IS ESTABLISHED FROM CSM 4602 VOL. 32, PG. 45, DOC #658691, DEED IN VOL. 461, PG. 491 AND CSM 1496 VOL. 11, PG. 83, DOC #445361.

50 CENTURYLINK
NO RECORDED EASEMENT
- PARCEL #7

51 RICE LAKE UTILITIES
NO RECORDED EASEMENT
- PARCEL #7

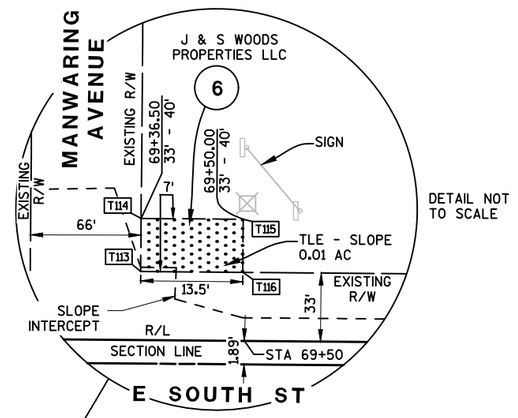
52 CHARTER COMMUNICATIONS
NO RECORDED EASEMENT
- PARCEL #7

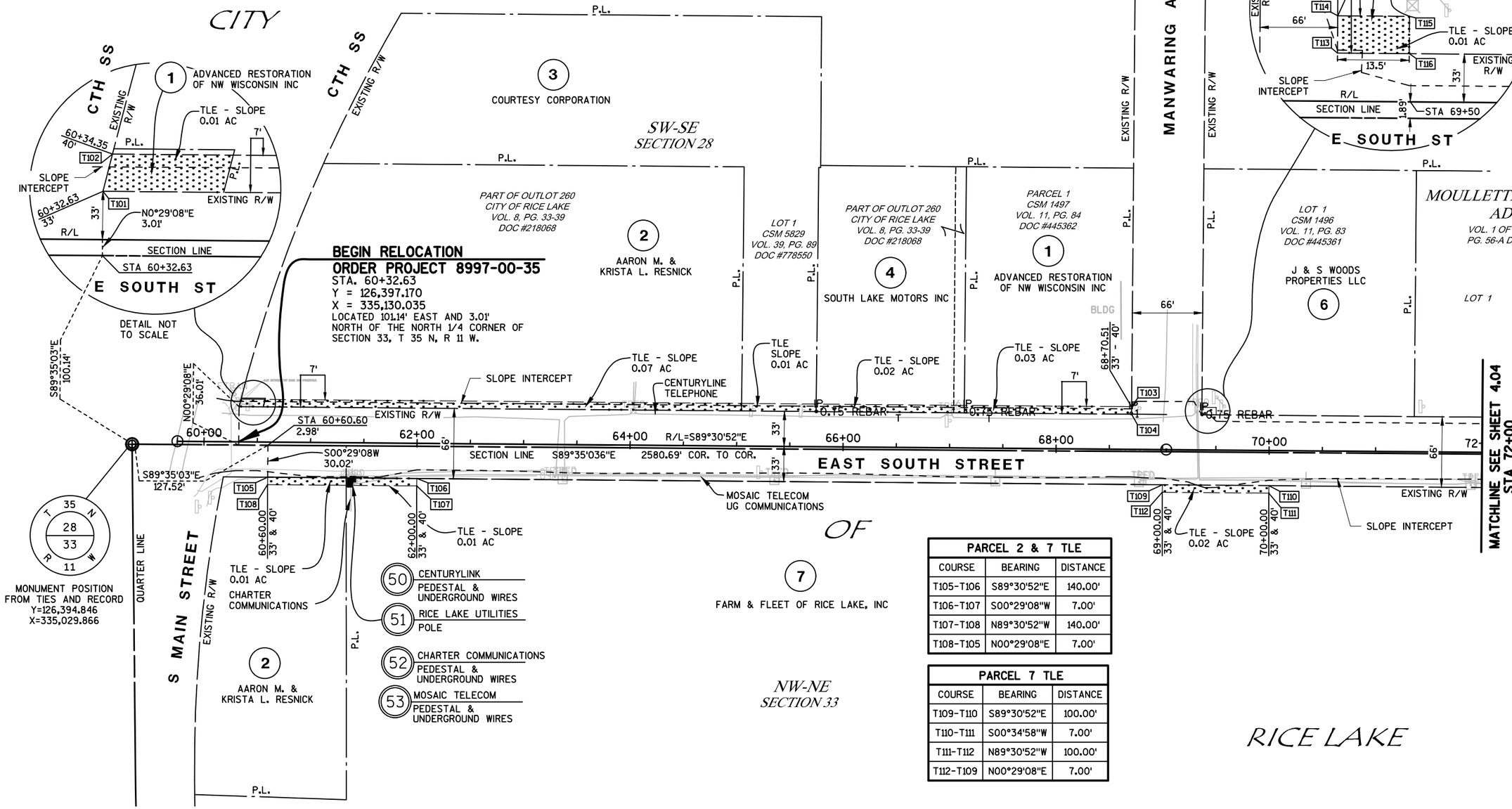
53 MOSAIC TELECOM
NO RECORDED EASEMENT
- PARCEL #7

CITY

OF

RICE LAKE





PARCEL 2 & 7 TLE		
COURSE	BEARING	DISTANCE
T105-T106	S89°30'52"E	140.00'
T106-T107	S00°29'08"W	7.00'
T107-T108	N89°30'52"W	140.00'
T108-T105	N00°29'08"E	7.00'

PARCEL 7 TLE		
COURSE	BEARING	DISTANCE
T109-T110	S89°30'52"E	100.00'
T110-T111	S00°34'58"W	7.00'
T111-T112	N89°30'52"W	100.00'
T112-T109	N00°29'08"E	7.00'

REVISION DATE	DATE: 06/27/2017	SCALE, FEET 0 50 100	HWY: LOCAL STREET	STATE R/W PROJECT NUMBER 8997-00-35	PLAT SHEET 4.03
	GRID FACTOR: NA		COUNTY: BARRON	CONSTRUCTION PROJECT NUMBER 8997-00-36	PS&E SHEET 79 E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\RW\89970035_RWPL.DWG PLOT DATE : JUNE 2017 PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 75

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), BARRON COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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EXISTING HIGHWAY RIGHT-OF-WAY FOR CARRIE AVENUE IS ESTABLISHED FROM MOULLETTE COMMERCIAL ADDITION VOL. 1 OF MAP CABINET, PG. 56-A DOC *447170, CSM 2525 VOL. 18, PG. 16, DOC *504213 AND CSM 3154 VOL. 22, PG. 59, DOC *547928

EXISTING HIGHWAY RIGHT-OF-WAY FOR KERN AVENUE IS ESTABLISHED FROM PART OF OUTLOTS - CITY OF RICE LAKE PLAT, VOL. 8, PG. 33-39, DOC *218068, CSM 3792 VOL. 26, PG. 127, DOC *595041, AND CSM 3154 VOL. 22, PG. 59, DOC *547928

4

4

CITY

SE-SE SECTION 28

SW-SW SECTION 27

NE-NE SECTION 33

NW-NW SECTION 34

RICE LAKE

OF

TAINTER'S ADDITION
VOL. 1 OF MAP CABINET, PG. 122-B, DOC #660551

MOULLETTE COMMERCIAL ADDITION
VOL. 1 OF MAP CABINET, PG. 56-A DOC #447170

MOULLETTE COMMERCIAL ADDITION
VOL. 1 OF MAP CABINET, PG. 56-A DOC #447170

PART OF OUTLOT 245
CITY OF RICE LAKE
VOL. 8, PG. 33-39
DOC #218068

LOT 1
CSM 3792
VOL. 26, PG. 127
DOC #595041

LOT 1
CSM 4568
VOL. 32, PG. 11
DOC #655033

CARRIE AVENUE

KERN AVENUE

EAST SOUTH STREET

SECTION LINE

SIXTEENTH LINE

EXISTING R/W

66'

P.L.

LOT 1 LOT 2 LOT 3 LOT 4 LOT 5 LOT 6 LOT 7 LOT 8 LOT 9 LOT 10 LOT 11

DONALD R. & SUZANNE TORGERSON (8)

CHARLES F. & PAULA R. LAWRENCE (9)

KEYSTONE RICE LAKE LLC (11)

JASON A. DEROUSSEAU (12)

LOREN J. & PAMELA A. KALLA (13)

EVELYN M. BURTON FAMILY, LLC & DENNIS E. OSTLIE (10)

50 CENTURYLINK
NO RECORDED EASEMENT
- PARCEL *12

50 CENTURYLINK
UNDERGROUND WIRES

MOSAIC TELECOM
UG COMMUNICATIONS

RICE LAKE UTILITIES
UG ELECTRIC

SIDEWALK EASEMENT
FROM DOC *660551

CENTURYLINK
TELEPHONE

TLE - SLOPE
0.04 AC

TLE - SLOPE
0.02 AC

TLE - SLOPE
0.01 AC

SLOPE INTERCEPT

0.75 REBAR HIT

1" IP HIT

0.75 REBAR 1" IP

BLDG

HSE

77+25.02
33' - 40'

84+80.60
33' - 40'

74+00 76+00 78+00 80+00 82+00 84+00 86+00

R/L=S89°30'52"E

R/L=S89°51'14"E

SECTION LINE S89°35'03"E 2580.69' COR. TO COR.

TIE

T130 T129 T128 T117 T118 T119 T120

76+50.00
33'

76+59.58
40'

76+45.00
33' - 40'

76+59.00
33' - 40'

7'

14'

1.04

R/L

STA 76+50

E SOUTH ST

DETAIL NOT TO SCALE

PARCEL 10 TLE		
COURSE	BEARING	DISTANCE
SEC-TIE	N89°35'03"W	853.60'
TIE-T130	S00°28'15"W	31.97'
T130-T129	S00°28'15"W	7.00'
T129-T128	N53°21'44"W	11.87'
T128-T130	S89°30'52"E	9.98'

END RELOCATION ORDER
PROJECT 8997-00-35
STA. 84+80.60
Y = 126,376.426
X = 337,577.920
LOCATED 32.56" WEST AND 0.03' NORTH OF THE NORTHEAST CORNER OF SECTION 33, T 35 N, R 11 W.

PI STA 85+13.14
Y=126,376.150
X=337,610.455

PK NAIL
Y=126,376.186
X=337,610.478

T 35 N
R 11 W
28 27 33 34
SEC 11

MATCHLINE SEE SHEET 4.03

REVISION DATE	DATE: 06/27/2017	SCALE. FEET 0 50 100	HWY: LOCAL STREET	STATE R/W PROJECT NUMBER 8997-00-35	PLAT SHEET 4.04
	GRID FACTOR: NA		COUNTY: BARRON	CONSTRUCTION PROJECT NUMBER 8997-00-36	PS&E SHEET 80 E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\RW\89970035_RWPL.DWG PLOT DATE : JUNE 2017 PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 75

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
8997-00-37		
FEDERAL PROJECT NUMBER	4.01	4

PLAT OF RIGHT-OF-WAY REQUIRED FOR

CITY OF RICE LAKE, KERN AVENUE

MAIN ST TO E SOUTH ST

LOCAL STREET — BARRON COUNTY

CONSTRUCTION PROJECT NUMBER
8997-00-38

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE (P.L.)
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
PARALLEL OFFSETS

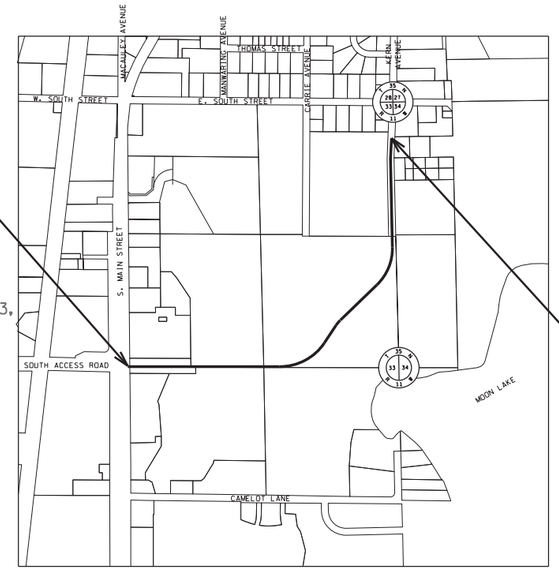
SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN (I-25)
ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER 25
UTILITY NUMBER 40
R/W BOUNDARY POINT RWB20
BUILDING TO BE REMOVED

R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED) IP

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	PERMANENT LIMITED EASEMENT	PLE
ACCESS RIGHTS	AR	PROPERTY LINE	PL
ACRES	AC	RECORDED AS	(100')
AND OTHERS	ET AL	REFERENCE LINE	R/L
CENTERLINE	C/L	RELEASE OF RIGHTS	ROR
CERTIFIED SURVEY MAP	CSM	REMAINING	REM
CORNER	COR	RESTRICTED DEVELOP EASEMENT	RDE
DOCUMENT	DOC	RIGHT-OF-WAY	R/W
EASEMENT	EASE	SECTION	SEC
HIGHWAY EASEMENT	HE	STATION	STA
LAND CONTRACT	LC	TEMPORARY LIMITED EASEMENT	TLE
MONUMENT	MON	VOLUME	V
PAGE	P		

R 11 W



T 35 N

N

BEGIN RELOCATION ORDER
STA. 13+00

Y= 123,858.916
X= 335,090.849

BEING 4.453 FEET SOUTH AND 2592.893 FEET EAST OF THE WEST 1/4 CORNER OF SECTION 33, T35N, R11W.

END RELOCATION ORDER
STA. 54+25

Y= 126,043.291
X= 337,596.613

BEING 332.868 FEET SOUTH AND 13.877 FEET EAST OF THE NORTHEAST CORNER OF SECTION 33, T35N, R11W.

LAYOUT
SCALE 0 1/8 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.781 MI.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, BARRON COUNTY, NAD 83, 2011 IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4" X 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY OR OTHER SURVEYS OF PUBLIC RECORD.

ORIGINAL PLAT PREPARED BY

SEH

WISCONSIN
JASON L. CANCE
S-2688
CHIPPEWA FALLS, WI
LAND SURVEYOR

8-2-17 (Date) (Signature)

REVISION DATE

ACCEPTED FOR

CITY of RICE LAKE

(Date) (Signature & Title)

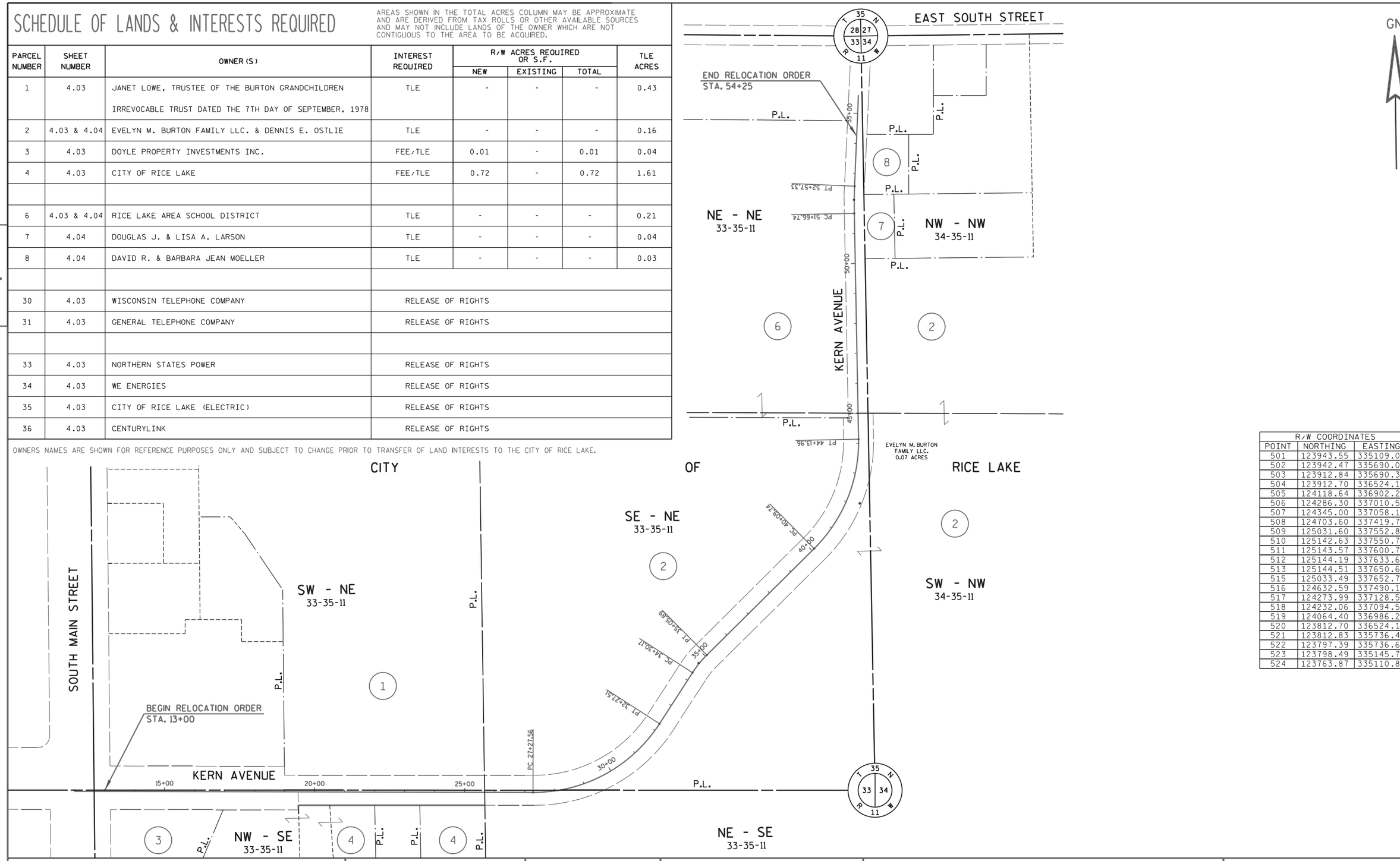
E

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

PARCEL NUMBER	SHEET NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED OR S.F.			TLE ACRES
				NEW	EXISTING	TOTAL	
1	4.03	JANET LOWE, TRUSTEE OF THE BURTON GRANDCHILDREN IRREVOCABLE TRUST DATED THE 7TH DAY OF SEPTEMBER, 1978	TLE	-	-	-	0.43
2	4.03 & 4.04	EVELYN M. BURTON FAMILY LLC. & DENNIS E. OSTLIE	TLE	-	-	-	0.16
3	4.03	DOYLE PROPERTY INVESTMENTS INC.	FEE/TLE	0.01	-	0.01	0.04
4	4.03	CITY OF RICE LAKE	FEE/TLE	0.72	-	0.72	1.61
6	4.03 & 4.04	RICE LAKE AREA SCHOOL DISTRICT	TLE	-	-	-	0.21
7	4.04	DOUGLAS J. & LISA A. LARSON	TLE	-	-	-	0.04
8	4.04	DAVID R. & BARBARA JEAN MOELLER	TLE	-	-	-	0.03
30	4.03	WISCONSIN TELEPHONE COMPANY	RELEASE OF RIGHTS				
31	4.03	GENERAL TELEPHONE COMPANY	RELEASE OF RIGHTS				
33	4.03	NORTHERN STATES POWER	RELEASE OF RIGHTS				
34	4.03	WE ENERGIES	RELEASE OF RIGHTS				
35	4.03	CITY OF RICE LAKE (ELECTRIC)	RELEASE OF RIGHTS				
36	4.03	CENTURYLINK	RELEASE OF RIGHTS				

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE CITY OF RICE LAKE.



R/W COORDINATES		
POINT	NORTHING	EASTING
501	123943.55	335109.07
502	123942.47	335690.07
503	123912.84	335690.36
504	123912.70	336524.13
505	124118.64	336902.27
506	124286.30	337010.51
507	124345.00	337058.11
508	124703.60	337419.74
509	125031.60	337552.80
510	125142.63	337550.71
511	125143.57	337600.70
512	125144.19	337633.69
513	125144.51	337650.69
515	125033.49	337652.78
516	124632.59	337490.15
517	124273.99	337128.52
518	124232.06	337094.52
519	124064.40	336986.28
520	123812.70	336524.11
521	123812.83	335736.45
522	123797.39	335736.60
523	123798.49	335145.71
524	123763.87	335110.84

REVISION DATE	DATE 8-2-17	SCALE, FEET 0 N/A	HWY: KERN AVENUE	STATE R/W PROJECT NUMBER 8997-00-37	PLAT SHEET NO: 4.02
			COUNTY: BARRON	CONSTRUCTION PROJECT NUMBER 8997-00-38	PS&E SHEET 82 E

FILE NAME : P:\PT\R\Ricel\Common\rice lake surveys\Kern Ave Extention\040101A-RP.DGN PLOT TIME : 2:04:51 PM PLOT DATE : 8/2/2017 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

WISDOT/CADDS SHEET 60

4

4

CURVE DATA TABLE						
CURVE	RADIUS	LENGTH	DIRECTION	DISTANCE	TANGENT BACK	TANGENT FORWARD
1	450.00' L	448.97'	N61°25'38"E	430.58'	S89°59'26"E	N32°50'42"E
2	350.00' R	75.72'	N39°02'34"E	75.57'	N32°50'42"E	N45°14'27"E
3	450.00' L	363.79'	N22°04'51"E	353.97'	N45°14'27"E	N01°04'44"W
4	550.00' R	444.64'	S22°04'51"W	432.63'	S01°04'44"E	S45°14'27"W
5	250.00' L	54.09'	S39°02'34"W	53.98'	S45°14'27"W	S32°50'42"W
6	550.00' R	548.74'	S61°25'38"W	526.26'	S32°50'42"W	N89°59'26"W

TLE STATION OUT TABLE					
POINT	STATION	OFFSET	POINT	STATION	OFFSET
600	18+99.33	60.00' LT	618	13+50.29	65.00' RT
601	22+00.00	60.00' LT	619	24+45.00	125.00' LT
602	22+35.00	125.00' LT	620	20+51.16	55.00' RT
603	25+00.00	56.66' LT	621	44+85.67	40.00' LT
604	20+78.12	445.00' RT	622	45+25.00	40.00' LT
605	37+25.00	50.00' RT	623	45+25.00	42.49' RT
606	37+25.00	55.00' RT	624	44+99.87	45.00' RT
607	36+25.00	55.00' RT	637	44+13.96	70.00' LT
608	36+25.00	50.00' RT	638	44+86.35	70.00' LT
609	25+00.00	43.34' RT	639	44+85.90	50.00' LT
610	25+00.00	125.00' RT	640	44+83.62	50.00' RT
611	19+45.83	55.00' RT	641	44+83.62	70.00' RT
612	18+00.00	60.07' RT	642	44+13.96	70.00' RT
613	18+00.00	65.00' RT	644	45+25.00	33.00' LT
614	16+05.00	65.00' RT	645	23+52.13	125.00' RT
615	16+05.00	70.00' RT	646	23+50.42	43.67' RT
616	15+45.00	70.00' RT	647	22+00.42	44.00' RT
617	15+45.00	65.00' RT	648	22+08.85	445.00' RT

FEE STATION OUT TABLE		
POINT	STATION	OFFSET
500	13+00.00	0.00'
501	13+18.02	84.67' LT
502	18+99.02	84.97' LT
503	18+99.38	55.34' LT
504	27+33.87	57.13' LT
505	32+36.03	50.00' LT
506	34+34.92	50.04' LT
507	35+01.14	50.04' LT
508	40+09.74	50.00' LT
509	44+13.96	50.00' LT
510	45+25.00	50.00' LT
511	45+25.00	0.00'
512	45+25.00	33.00' RT
513	45+25.00	50.00' RT
515	44+13.96	50.00' RT
516	40+09.74	50.00' RT
517	34+99.55	49.95' RT
518	34+36.50	49.95' RT
519	32+36.03	50.00' RT
520	27+32.91	42.86' RT
521	19+45.71	44.56' RT
522	19+45.89	60.00' RT
523	13+55.00	60.30' RT
524	13+20.22	95.00' RT
525	45+05.00	0.00'
526	45+05.00	33.02' RT

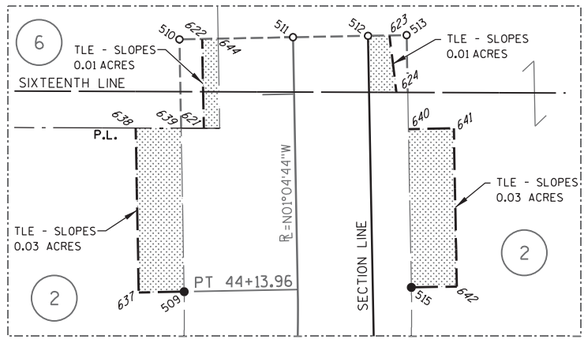
COURSE TABLE		
COURSE	BEARING	DISTANCE
100-411	S01°04'44"E	2514.09'
411-102	N89°59'26"W	5159.87'
102-500	S89°54'06"E	2592.90'
500-501	N12°08'59"E	86.57'
501-502	S89°53'38"E	581.00'
502-503	S00°33'58"E	29.63'
503-504	S89°59'26"E	833.77'
505-506	N32°50'42"E	199.57'
507-508	N45°14'27"E	509.28'
509-510	N01°04'44"W	111.04'
510-511	N88°55'16"E	50.00'
511-512	N88°55'16"E	33.00'
512-513	N88°55'16"E	17.00'
513-515	S01°04'44"E	111.04'
516-517	S45°14'27"W	509.28'
518-519	S32°50'42"W	199.57'
520-521	N89°59'26"W	787.67'
521-522	S00°33'58"E	15.44'
522-523	N89°53'38"W	590.89'
523-524	S45°12'12"W	49.13'
524-500	N11°52'41"W	97.13'

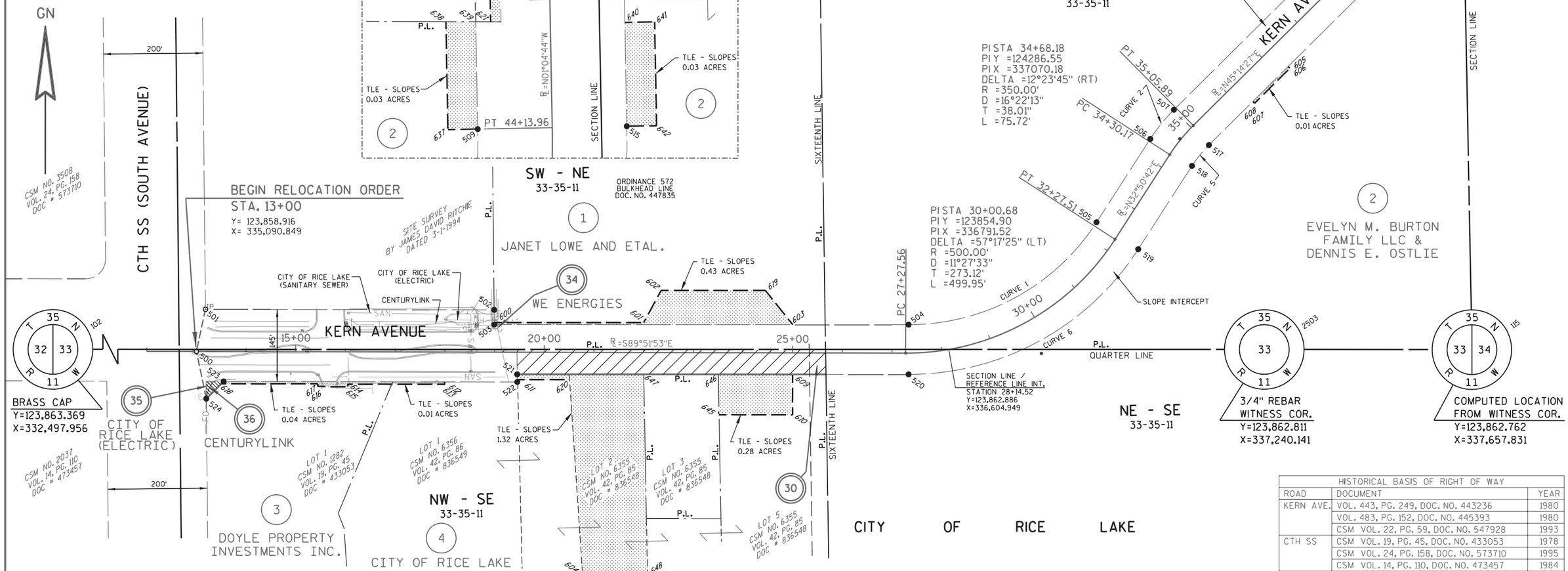
30 WISCONSIN TELEPHONE COMPANY
PARCEL 4 - DOC. NO. 210790 - 33' WIDE EASEMENT

31 GENERAL TELEPHONE COMPANY
PARCEL 3 - DOC. NO. 376139 - BLANKET EASEMENT

33 NORTHERN STATES POWER
PARCELS 3 & 4 - DOC. NO. 324501 - AMBIGUOUS EASEMENT

DETAIL
NOT TO SCALE





HISTORICAL BASIS OF RIGHT OF WAY		
ROAD	DOCUMENT	YEAR
KERN AVE.	VOL. 443, PG. 249, DOC. NO. 443236	1980
	VOL. 483, PG. 152, DOC. NO. 445393	1980
	CSM VOL. 22, PG. 59, DOC. NO. 547928	1993
CTH SS	CSM VOL. 19, PG. 45, DOC. NO. 433053	1978
	CSM VOL. 24, PG. 158, DOC. NO. 573710	1995
	CSM VOL. 14, PG. 110, DOC. NO. 473457	1984

REVISION DATE	DATE 8-2-17	SCALE, FEET 0 100 200	HWY: KERN AVENUE	STATE R/W PROJECT NUMBER 8997-00-37	PLAT SHEET NO: 4.03
	GRID FACTOR N/A		COUNTY: BARRON	CONSTRUCTION PROJECT NUMBER 8997-00-38	PS&E SHEET 83 E

FILE NAME : P:\PT\R\Ricel\Common\rice lake surveys\Kern Ave Extention\040102-RP.DGN PLOT TIME : 2:04:52 PM PLOT DATE : 8/2/2017 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A

WISDOT/CADDS SHEET 75

HISTORICAL BASIS OF RIGHT OF WAY		
ROAD	DOCUMENT	YEAR
KERN AVE.	CSM VOL. 22, PG. 59, DOC. NO. 547928	1993
	CSM VOL. 34, PG. 67, DOC. NO. 696181	2004
	CSM VOL. 32, PG. 11, DOC. NO. 655033	2002

BRASS CAP
Y=123,863.369
X=332,497.956

TLE STATION OUT TABLE		
POINT	STATION	OFFSET
512	45+25.00	33.00' RT
622	45+25.00	40.00' LT
623	45+25.00	42.49' RT
625	49+00.00	40.00' LT
626	49+00.00	50.00' LT
627	51+00.00	50.00' LT
628	51+66.74	40.00' LT
629	52+57.33	40.00' LT
630	54+25.00	40.00' LT
631	54+25.00	32.66' LT
632	54+25.00	33.35' RT
633	54+25.00	40.00' RT
634	52+57.33	40.00' RT
635	51+66.74	40.00' RT
636	45+50.00	40.00' RT
644	45+25.00	33.00' LT

COURSE TABLE		
COURSE	BEARING	DISTANCE
102-411	S89°59'26"E	5159.87'
411-100	N01°04'44"W	2514.09'
100-555	S02°23'14"W	333.16'

CITY OF RICE LAKE

NE - NE
33-35-11

6
RICE LAKE AREA
SCHOOL DISTRICT

LOT 1
CSM NO. 3154
VOL. 22, PG. 59
DOC. NO. 547928

PI STA 52+12.05
PI Y =125830.50
PI X =337587.76
DELTA =3°27'37" (RT)
R =1500.00'
D =3°49'11"
T =45.31'
L =90.59'

P.L.

SECTION LINE

GN

4

4

TLE - SLOPES
0.20 ACRES

SLOPE INTERCEPT

PC 51+66.74

PT 52+57.33

CITY OF RICE LAKE
SANITARY SEWER

END RELOCATION ORDER
STA. 54+25
Y= 126,043.29
X= 337,596.61

KERN AVENUE

R=N01°04'44"W

50+00

R=N02°22'53"E

55+00

66'

MATCH LINE = 45+25
SEE SHEET 4.03

SLOPE INTERCEPT

TLE - SLOPES
0.08 ACRES

TLE - SLOPES
0.04 ACRES

7
DOUGLAS J. & LISA A.
LARSON

TLE - SLOPES
0.03 ACRES

30' EASEMENT PER
VOL. 772, PG. 611

LOT 4
CSM NO. 4946
VOL. 34, PG. 67
DOC. NO. 696181

8
DAVID R. & BARBARA JEAN
MOELLER

33' EASEMENT PER
VOL. 762, PG. 487

CITY OF RICE LAKE
(ELECTRIC)

LOT 1
CSM NO. 4568
VOL. 32, PG. 11
DOC. NO. 655033

EAST SOUTH AVENUE

SECTION LINE

COMPUTED LOCATION
FROM TIE SHEET
Y=123,862.760
X=337,657.878

COMPUTED LOCATION
FROM TIES
Y=126,376.159
X=337,610.490

NW - NW
34-35-11

2
EVELYN M. BURTON
FAMILY LLC &
DENNIS E. OSTLIE

CITY OF RICE LAKE

REVISION DATE	DATE 8-2-17	SCALE, FEET 0 50 100	HWY: KERN AVENUE	STATE R/W PROJECT NUMBER 8997-00-37	PLAT SHEET NO: 4.04
	GRID FACTOR N/A		COUNTY: BARRON	CONSTRUCTION PROJECT NUMBER 8997-00-38	PS&E SHEET E

FILE NAME : P:\PT\R\Ricel\Common\rice lake surveys\Kern Ave Extention\040103-RP.DGN PLOT TIME : 2:04:53 PM PLOT DATE : 8/2/2017 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A
WISDOT/CADDS SHEET 75

N

NOTE: SEE PAVING DETAIL FOR DRIVEWAY & CURB RAMP LOCATION AND TYPE.

STA 60+35, LT
STA 63+63, LT
ADJUST SANITARY MANHOLE CASTING

6.15' BETWEEN TSF BASE AND POWERPOLE

BP: 59+75.00
Y = 126397.65
X = 335072.41

MOSAIC TELECOM
SLOPE INTERCEPT
TLE
R/W
RICE LAKE UTILITIES-SANITARY
CENTURYLINK
5' TERRACE
60+00
61+00
62+00
63+00
64+00
CAUTION
S89° 30' 53"E
E SOUTH ST
S MAIN ST
BORE
CP 10
CP 7
CAUTION
R/W
TLE
SLOPE INTERCEPT
CENTURYLINK
CHARTER COMMUNICATIONS
RICE LAKE UTILITIES-ELECTRIC/ CHARTER COMMUNICATIONS
MOSAIC TELECOM
CHARTER COMMUNICATIONS
BM#8
WE ENERGIES
RICE LAKE UTILITIES-WATER

BEGIN PROJECT
ID 8997-00-36
STA 59+99.00
MATCH EXISTING
SAWCUT REQ'D
Y 126397.45
X 335096.44

CONTROL POINT #10
STA 60+18.89, 27.1' RT
SET 120D SPK @ SE QUAD
E SOUTH ST & S MAIN ST.
7' S OF BOC E SOUTH ST
Y 126370.14 X 335116.08

CONTROL POINT #7
STA 62+01.40, 28.5' RT
SET ¾" REBAR W/AYRES CAP,
18' E OF E EDGE ENT TO FARM
& FLEET, 6' S OF BOC
Y 126367.18 X 335298.55

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
8	63+32	26.6' RT, HYD BOLT W/FLAG	1127.78

5

5

STA 60+00.00
EL 1126.76
VPC STA 60+25.00
VPC EL 1126.84
VPI STA 60+75.00
VPI EL 1126.98
VPT STA 61+25.00
VPT EL 1126.66
EXISTING PROFILE
0.30%
0.65%
FINISHED PROFILE
VCL = 100.00
K = 105.26
VCL = 200.00
K = 114.29
VPC STA 63+50.00
VPC EL 1125.20

1132
1130
1128
1126
1124
1122
1120
1118

59+00 +25 +50 +75 60+00 +25 +50 +75 61+00 +25 +50 +75 62+00 +25 +50 +75 63+00 +25 +50 +75 64+00

1128.15
1126.76 1126.76
1126.93 1126.84
1127.03 1126.88
1127.01 1126.87
1126.97 1126.79
1126.86 1126.66
1126.66 1126.50
1126.51 1126.34
1126.42 1126.17
1126.32 1126.01
1126.21 1125.85
1126.10 1125.68
1126.00 1125.52
1125.87 1125.36
1125.74 1125.20
1125.65 1125.06
1125.61 1124.98

PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	PLAN AND PROFILE: E SOUTH STREET	SHEET 85	E

STA 69+21, LT (2)
ADJUST GATE VALVE BOX

N

CONTROL POINT #6
STA 68+50.29, 32' LT
SET ¾" REBAR W/AYRES CAP
@ NW CORNER OF E SOUTH
ST & MANWARING AVE, 9.5' N
OF BOC E SOUTH ST
Y 126422.17 X 335947.96

SLOPE INTERCEPT
CENTURYLINK
TLE
0.75 REBAR
RICE LAKE UTILITIES-
SANITARY
R/W
CP 6
MANWARING AVE
PI: 69+03.23
Y = 126589.79
X = 336000.60
BM#6
ROCK
TLE
0.75 REBAR
R/W

64+00 65+00 66+00 67+00 E SOUTH ST 68+00 69+00 70+00
S89° 30' 53"E

CP 9
ROCK
CHARTER COMMUNICATIONS
SLOPE INTERCEPT
CENTURYLINK
BM#7
RICE LAKE UTILITIES-
WATER
WE ENERGIES
RICE LAKE UTILITIES-ELECTRIC/
CHARTER COMMUNICATIONS
MOSAIC TELECOM
R/W
CONSTRUCT INTERSECTION
(SEE PAVING DETAILS FOR
MORE INFORMATION)

STA 66+58, RT (2)
STA 69+19, RT
ADJUST GATE VALVE BOX

STA 67+01, RT
STA 69+00, RT
ADJUST SANITARY MANHOLE CASTING

CONTROL POINT #9
STA 66+09.73, 29.6' RT
SET 120D SPK 7' S OF BOC E
SOUTH ST, 90' SE OF ℄ OF
ENT TO MCDONALDS
Y 126362.64 X 335706.87

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
7	66+56	28.4' RT, HYD BOLT W/FLAG	1129.53
6	69+28	38.3' LT, NE HYD BOLT	1134.68
		W/CUT CROSS	

VCL = 200.00
K = 114.29
VCL = 100.00
K = 138.81
VCL = 100.00
K = 208.50
VCL = 300.00
K = 162.16
EXISTING PROFILE
FINISHED PROFILE
1.10%
1.82%
2.30%
VPI STA 64+50.00 VPI EL 1124.55
VPT STA 65+50.00 VPT EL 1125.65
VPC STA 66+50.00 VPC EL 1126.75
VPI STA 67+00.00 VPI EL 1127.30
VPT STA 67+50.00 VPT EL 1128.21
VPC STA 68+50.00 VPC EL 1130.03
VPI STA 69+00.00 VPI EL 1130.94
VPT STA 69+50.00 VPT EL 1132.09

1134 1132 1130 1128 1126 1124 1122 1120

64+00 +25 +50 +75 65+00 +25 +50 +75 66+00 +25 +50 +75 67+00 +25 +50 +75 68+00 +25 +50 +75 69+00 +25 +50 +75 70+00

| | | |

CONTROL POINT #5
STA 71+65.31, 37.2' LT
SET ¾" REBAR W/AYRES CAP
15' N OF BOC E SOUTH ST @
CHILDCARE CENTER
Y 126424.77 X 336262.99

N

RICE LAKE UTILITIES-SANITARY
CP 5
0.75 REBAR HIT
SLOPE INTERCEPT
1 IB HIT
R/W
5' TERRACE
70+00
71+00
72+00
73+00
74+00
75+00
76+00
S89° 30' 52"E
E SOUTH ST
BORE
ROCK
ROCK
WE ENERGIES
RICE LAKE UTILITIES-WATER
BM#5
SLOPE INTERCEPT
RICE LAKE UTILITIES-ELECTRIC/ CHARTER COMMUNICATIONS
CENTURYLINK
MOSAIC TELECOM
R/W

5

5

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
5	72+78	24.9' RT, HYD BOLT W/FLAG	1138.29

STA 73+03, RT
ADJUST SANITARY MANHOLE CASTING

VPI STA 71+00.00
VPI EL 1135.54
VPT STA 72+50.00
VPT EL 1136.21
VPC STA 73+25.00
VPC EL 1136.55
VPI STA 73+75.00
VPI EL 1136.78
VPT STA 74+25.00
VPT EL 1136.60
EXISTING PROFILE
0.45%
-0.36%
FINISHED PROFILE
VCL = 300.00
K = 162.16
VCL = 100.00
K = 123.35

1142
1140
1138
1136
1134
1132
1130
1128

70+00 +25 +50 +75 71+00 +25 +50 +75 72+00 +25 +50 +75 73+00 +25 +50 +75 74+00 +25 +50 +75 75+00 +25 +50 +75 76+00

1133.15	1133.16	1133.62	1133.64	1134.08	1134.08	1134.53	1134.48	1134.93	1134.84	1135.33	1135.17	1135.67	1135.45	1135.96	1135.70	1136.13	1135.91	1136.31	1136.08	1136.45	1136.21	1136.56	1136.33	1136.68	1136.44	1136.73	1136.55	1136.76	1136.64	1136.79	1136.67	1136.82	1136.66	1136.80	1136.60	1136.74	1136.51	1136.64	1136.42	1136.51	1136.32	1136.38	1136.23	1136.29	1136.14	1136.20	1136.05	1136.12	1135.96

PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	PLAN AND PROFILE: E SOUTH STREET	SHEET 87	E

CARRIE AVE

STA 77+11, RT (2)
ADJUST GATE VALVE BOX

BM#4

PI: 76+92.10
Y = 126383.11
X = 336789.45

MOSAIC TELECOM

SLOPE INTERCEPT

TLE

R/W

1 IP HIT

1 IP

RICE LAKE UTILITIES-SANITARY

CONTROL POINT #8
STA 80+70.63, 31.1' LT
SET 120D SPK 8.5' N OF
BOC E SOUTH ST, 18' SE OF
SIGN FOR RETIREMENT HOME
Y 126410.99 X 337168.18

CP 80.75 REBAR

1 IP

76+00 77+00 E SOUTH ST 78+00 79+00 80+00 S89° 30' 52"E 82+00

S89° 30' 52"E

BORE

R/W

CP 4

MOSAIC TELECOM

STA 76+59, RT (2)
STA 77+03, RT (2)
STA 80+52, RT
STA 80+83, RT
ADJUST GATE VALVE BOX

STA 76+90, RT
STA 81+02, RT
ADJUST SANITARY MANHOLE CASTING

SLOPE INTERCEPT

WE ENERGIES

RICE LAKE UTILITIES-ELECTRIC/
CHARTER COMMUNICATIONS

R/W

R/W EASEMENT

RICE LAKE UTILITIES-WATER

CENTURYLINK

BM#3

CONTROL POINT #4
STA 76+31.30, 37.4' RT
SET ¾" REBAR W/AYRES CAP
@ SW QUAD OF E SOUTH ST
& CARRIE AVE, 15' S OF BOC
Y 126346.28 X 336728.32

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
4	77+17	38.8' LT, HYD BOLT W/FLAG	1137.35
3	80+76	24.3' RT, HYD BOLT W/FLAG	1138.73

5

5

VCL = 100.00
K = 131.46

FINISHED PROFILE

EXISTING PROFILE

0.40%

VPC STA 76+75.00
VPC EL 1135.69

VPI STA 77+25.00
VPI EL 1135.51

VPT STA 77+75.00
VPT EL 1135.71

1142 1140 1138 1136 1134 1132 1130 1128

76+00 +25 +50 +75 77+00 +25 +50 +75 78+00 +25 +50 +75 79+00 +25 +50 +75 80+00 +25 +50 +75 81+00 +25 +50 +75 82+00

1136.12	1136.00	1135.86	1135.71	1135.62	1135.67	1135.71	1135.80	1135.93	1136.07	1136.17	1136.26	1136.33	1136.41	1136.50	1136.59	1136.68	1136.75	1136.81	1136.89	1136.99	1137.08	1137.26	1137.35	1137.42
1135.96	1135.87	1135.78	1135.69	1135.63	1135.61	1135.64	1135.71	1135.81	1135.91	1136.01	1136.11	1136.21	1136.31	1136.41	1136.51	1136.61	1136.71	1136.81	1136.91	1137.01	1137.11	1137.21	1137.31	1137.41

PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	PLAN AND PROFILE: E SOUTH STREET	SHEET 88	E

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
2	84+83	35.7' LT, HYD BOLT W/FLAG	1140.91

STA 84+95, LT
ADJUST GATE VALVE BOX

RICE LAKE UTILITIES-SANITARY

SLOPE INTERCEPT

MOSAIC TELECOM

BM#2

TLE

R/W

PI: 85+13.14
Y = 126378.15
X = 337610.47

EP: 86+37.34
Y = 126375.83
X = 337734.66

82+00 83+00 84+00 85+00 86+00

S89° 30' 52"E

E SOUTH ST

S89° 51' 14"E

CAUTION

R/W EASEMENT

CENTURYLINK

SLOPE INTERCEPT

WE ENERGIES

RICE LAKE UTILITIES-ELECTRIC/ CHARTER COMMUNICATIONS

RICE LAKE UTILITIES-WATER

STA 85+11, RT
ADJUST SANITARY MANHOLE CASTING

STA 84+57, RT
ADJUST GATE VALVE BOX

57+00

KERN AVE

CP 3

CHARTER COMMUNICATIONS, CENTURYLINK & MOSAIC TELECOM

CONTROL POINT #3
STA 85+58.70, 34.9' RT
SET ¾" REBAR W/AYRES CAP @ SE QUAD OF E SOUTH ST & KERN AVE, 3.5' S OF BACK OF WALK
Y 126341.08 X 337655.96

END PROJECT
ID 8997-00-36
STA 84+94.38
MATCH EXISTING
SAWCUT REQ'D

N

5

5

VCL = 100.00
K = 1000.00

VCL = 100.00
K = 69.28

VPC STA 82+50.00
VPC EL 1137.61

VPI STA 83+00.00
VPI EL 1137.81

VPT STA 83+50.00
VPT EL 1138.06

VPC STA 84+50.00
VPC EL 1138.56

VPI STA 85+00.00
VPI EL 1138.81

VPT STA 85+50.00
VPT EL 1138.34

STA 86+00.00
EL 1137.87

STA 86+37.34
EL 1137.67

FINISHED PROFILE

EXISTING PROFILE

0.50%

-0.94%

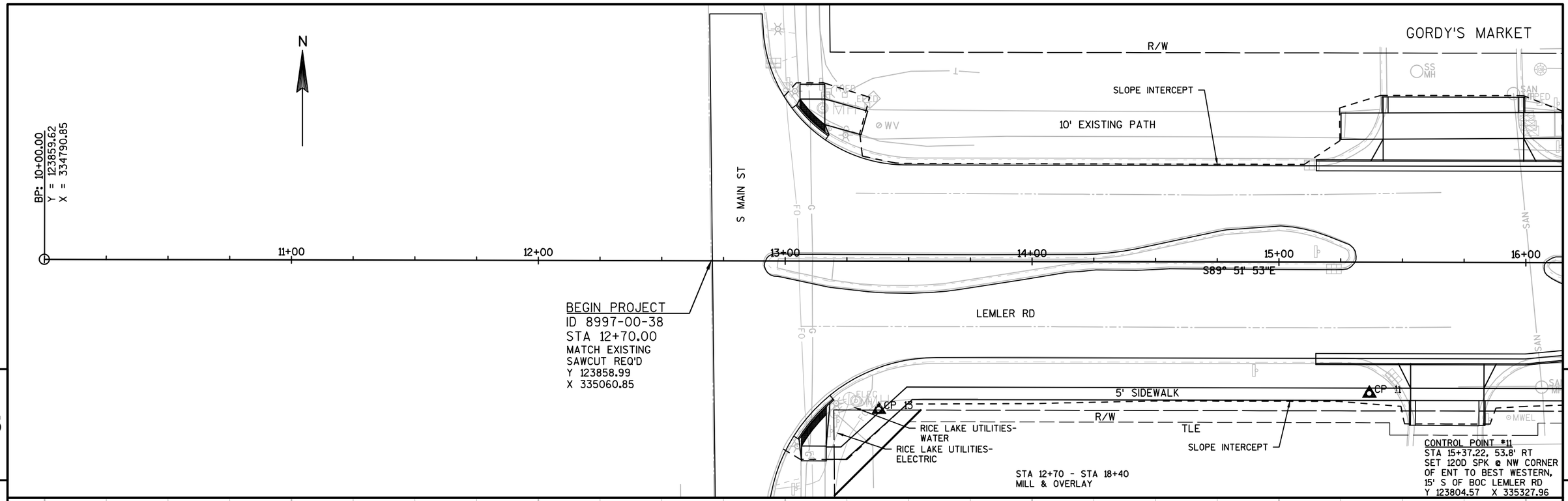
-0.53%

1146 1144 1142 1140 1138 1136 1134 1132

82+00 +25 +50 +75 83+00 +25 +50 +75 84+00 +25 +50 +75 85+00 +25 +50 +75 86+00 +25 +50 +75 87+00

1137.42 1137.41
1137.49 1137.51
1137.58 1137.61
1137.76 1137.72
1137.93 1137.83
1138.06 1137.94
1138.18 1138.06
1138.28 1138.19
1138.35 1138.31
1138.42 1138.44
1138.52 1138.56
1138.61 1138.64
1138.64 1138.63
1138.53 1138.53
1138.35 1138.34
1138.08 1138.11
1137.87 1137.87
1137.74 1137.74

PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	PLAN AND PROFILE: E SOUTH STREET	SHEET 89	E



5

5

PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	PLAN AND PROFILE: KERN AVENUE	SHEET 90	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\SHEETSPLAN\050102_PP.DWG
LAYOUT NAME - 050106_PP

PLOT DATE : 10/20/2017 2:17 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

GORDY'S MARKET

CONTROL POINT *12
STA 19+00.55, 51.6' LT
SET 120D SPK 4' E OF BOC @
E SERVICE ENT FOR GORDY'S
MARKET, 65' SE OF SE
CORNER OF GORDY'S BLDG
Y 123909.03 X 335691.60

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
9	19+26	63.5' LT, HYD BOLT W/FLAG	1123.89

N

R/W
CENTURYLINK
WE ENERGIES
10' EXISTING PATH
CAUTION
BM*9
SLOPE INTERCEPT
TLE
R/W
10' PATH
16+00
17+00
18+00
19+00
20+00
21+00
22+00
S89° 51' 53"E
KERN AVE
LEMLER RD
5'SIDEWALK
5' SIDEWALK
R/W
TLE
SLOPE INTERCEPT
RICE LAKE UTILITIES-ELECTRIC
TLE
RICE LAKE UTILITIES-SANITARY
DOG PARK

5 5

VCL = 100.00
K = 200.00
VCL = 100.00
K = 80.00
-0.50%
FINISHED PROFILE
EXISTING PROFILE
VPI STA 16+00.00
VPI EL 1123.53
VPT STA 16+50.00
VPT EL 1123.28
VPC STA 20+75.00
VPC EL 1121.15
VPI STA 21+25.00
VPI EL 1120.90
VPT STA 21+75.00
VPT EL 1121.28

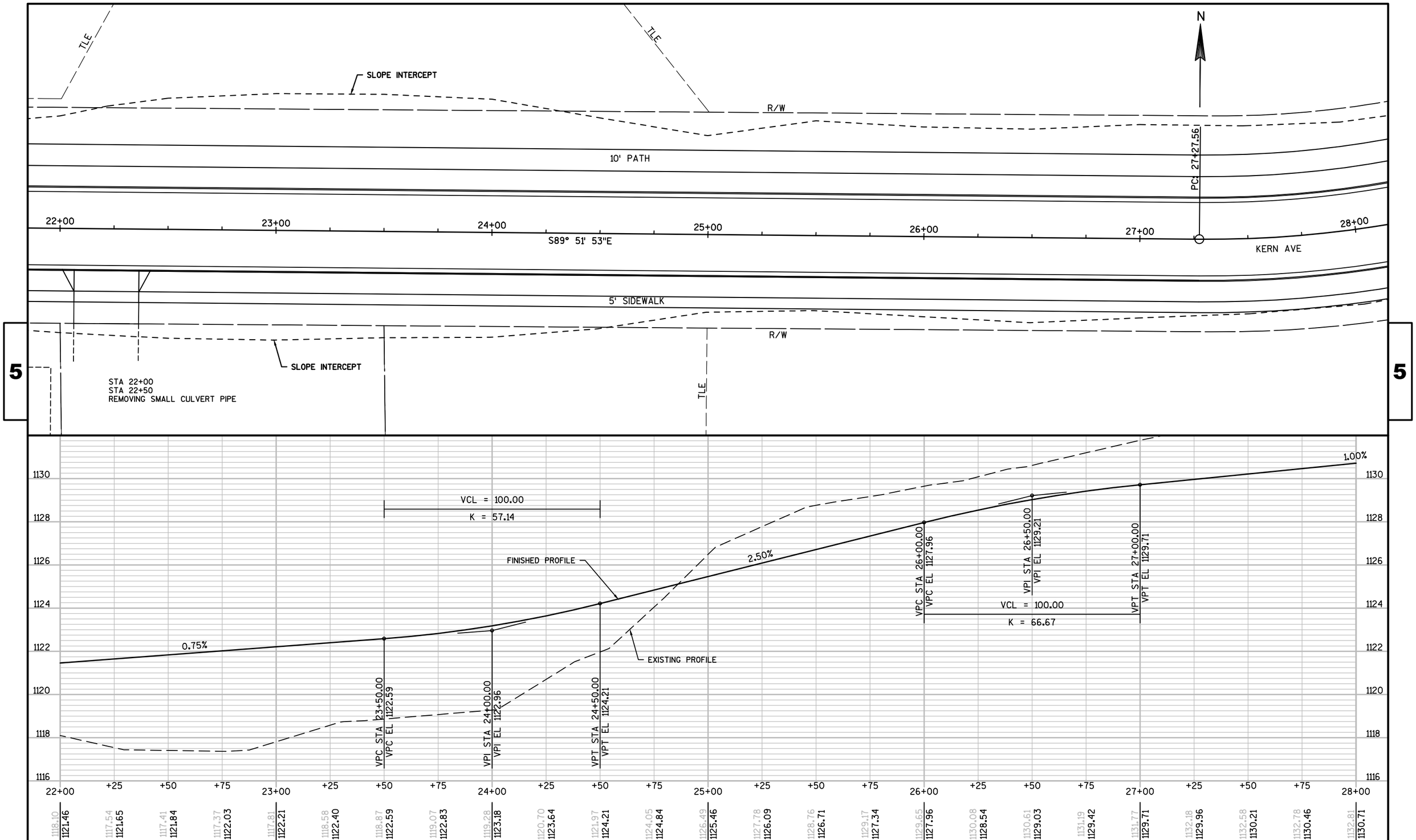
PROFILE FOR INFORMATION ONLY
SEE PAVING DETAILS FOR ELEVATIONS

1128 1126 1124 1122 1120 1118 1116 1114

16+00 +25 +50 +75 17+00 +25 +50 +75 18+00 +25 +50 +75 19+00 +25 +50 +75 20+00 +25 +50 +75 21+00 +25 +50 +75 22+00

1123.33 1123.59 | 1123.28 1123.42 | 1122.85 1123.28 | 1122.61 1123.15 | 1122.44 1123.03 | 1122.33 1122.90 | 1122.26 1122.78 | 1122.21 1122.65 | 1122.09 1122.53 | 1121.95 1122.40 | 1121.91 1122.28 | 1121.50 1122.15 | 1121.46 1122.03 | 1121.30 1121.90 | 1121.42 1121.78 | 1121.43 1121.65 | 1121.43 1121.53 | 1121.47 1121.40 | 1120.87 1121.28 | 1120.17 1121.15 | 1119.48 1121.06 | 1119.05 1121.06 | 1118.83 1121.13 | 1118.62 1121.28 | 1118.10 1121.46

PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	PLAN AND PROFILE: KERN AVENUE	SHEET 91	E



PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	PLAN AND PROFILE: KERN AVENUE	SHEET 92	E

PI STA = 30+00.68
Y = 123854.90
X = 336791.52
DELTA = 57°17'25"
D = 11°27'33"
T = 273.12'
L = 499.95'
R = 500.00'
PC STA = 27+27.56
PT STA = 32+27.51

28+00
29+00
30+00
31+00
32+00
33+00
34+00
10' PATH
5' SIDEWALK
KERN AVE
MOON LAKE DR
R/W
SLOPE INTERCEPT
PC STA 27+27.5
PT STA 33+30.1
N32° 50' 42"E

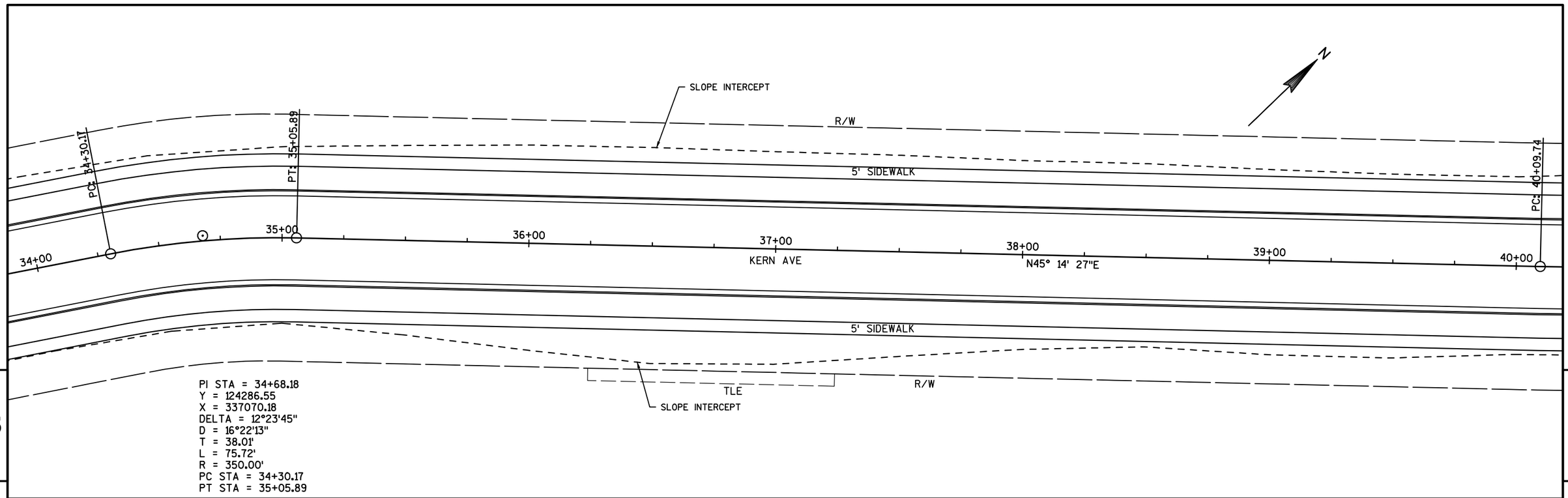
VPC STA 29+00.00
VPC EL 1131.71
VPI STA 29+50.00
VPI EL 1132.21
VPT STA 30+00.00
VPT EL 1132.61
VCL = 100.00
K = 500.00
EXISTING PROFILE
FINISHED PROFILE
0.80%
1.00%
VPC STA 31+50.00
VPC EL 1133.81
VPI STA 32+00.00
VPI EL 1134.21
VPT STA 32+50.00
VPT EL 1134.71
VCL = 100.00
K = 500.00
1.00%

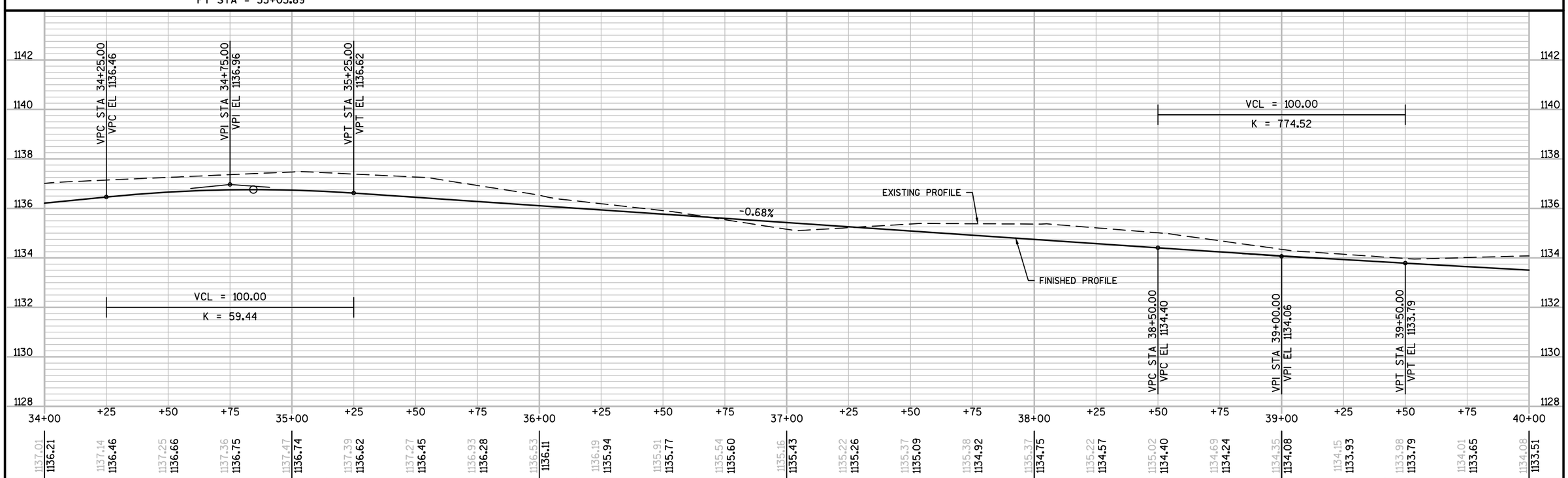
1138
1136
1134
1132
1130
1128
1126
1124

28+00	+25	+50	+75	29+00	+25	+50	+75	30+00	+25	+50	+75	31+00	+25	+50	+75	32+00	+25	+50	+75	33+00	+25	+50	+75	34+00
1132.81	1132.75	1132.69	1132.70	1132.73	1132.89	1133.05	1133.19	1133.34	1133.51	1133.76	1133.86	1133.96	1134.07	1134.22	1134.58	1134.99	1135.36	1135.71	1135.89	1136.03	1136.27	1136.51	1136.76	1137.01
1130.71	1130.96	1131.21	1131.46	1131.71	1131.96	1132.19	1132.41	1132.61	1132.81	1133.01	1133.21	1133.41	1133.61	1133.81	1134.02	1134.24	1134.47	1134.71	1134.96	1135.21	1135.46	1135.71	1135.96	1136.21

PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	PLAN AND PROFILE: KERN AVENUE	SHEET 93	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\SHEETSPLAN\050102_PP.DWG
LAYOUT NAME - 050109_PP
PLOT DATE : 10/20/2017 2:17 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:40 FT





PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	PLAN AND PROFILE: KERN AVENUE	SHEET 94 E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\SHEETSPLAN\050102_PP.DWG
LAYOUT NAME - 050110_PP

PLOT DATE : 10/20/2017 2:17 PM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

PI STA = 42+23.63
Y = 124818.70
X = 337606.82
DELTA = 46°19'11"
D = 11°27'33"
T = 213.89'
L = 404.22'
R = 500.00'
PC STA = 40+09.74
PT STA = 44+13.96

N

PC STA 40+09.74

40+00

SLOPE INTERCEPT

R/W

5' SIDEWALK

41+00

42+00

43+00

KERN AVE

5' SIDEWALK

SLOPE INTERCEPT

R/W

PT STA 44+13.96

44+00

N1° 04' 44"W

45+00

46+00

BURTON ST

TLE

R/W

IP 0.75 REBAR

R/W

TLE

IP 0.75 REBAR

BURTON ST

5

5

VCL = 100.00
K = 51.20

VPC STA 42+50.00
VPC EL 1132.13

VPI STA 43+00.00
VPI EL 1131.85

VPT STA 43+50.00
VPT EL 1132.55

VPC STA 45+00.00
VPC EL 1134.65

VPI STA 45+50.00
VPI EL 1135.35

VPT STA 46+00.00
VPT EL 1135.80

VCL = 100.00
K = 199.74

EXISTING PROFILE

FINISHED PROFILE

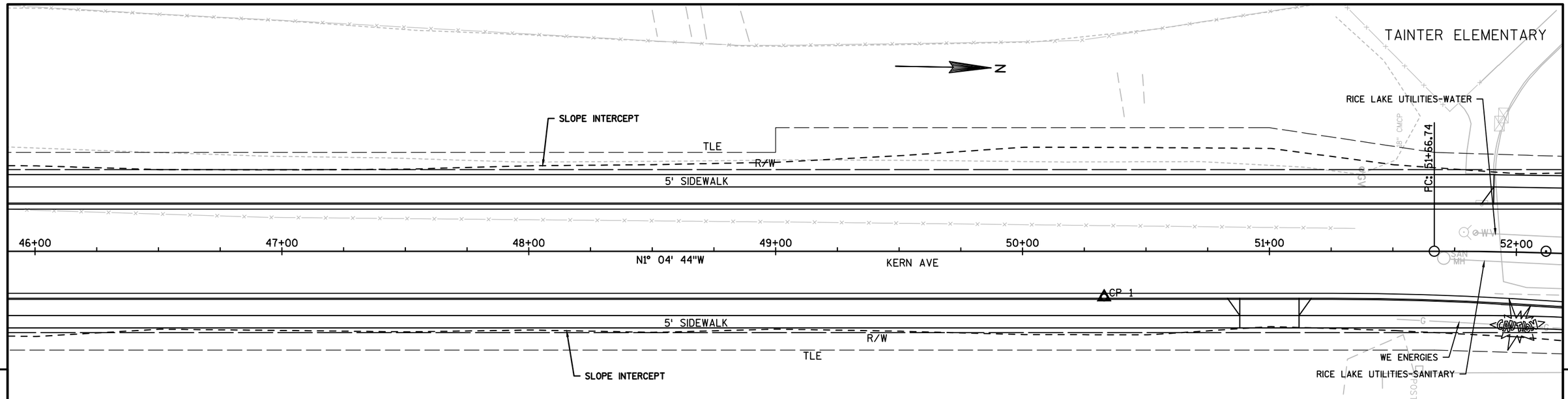
-0.55%

1.40%

1140
1138
1136
1134
1132
1130
1128
1126

40+00 +25 +50 +75 41+00 +25 +50 +75 42+00 +25 +50 +75 43+00 +25 +50 +75 44+00 +25 +50 +75 45+00 +25 +50 +75 46+00

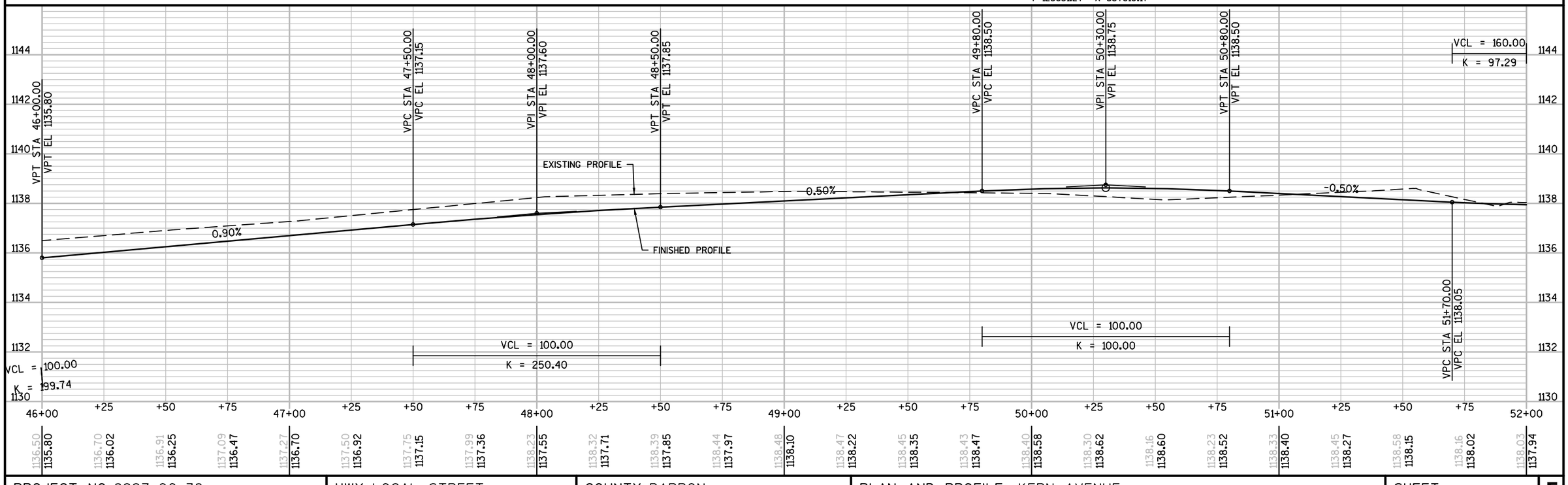
| | | |



5

5

CONTROL POINT #1
STA 50+32.41, 19' RT
SET ¾" REBAR W/AYRES CAP
130' SW OF SW CORNER OF
SHED @ S END OF KERN AVE
Y 125651.27 X 337610.17



PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	PLAN AND PROFILE: KERN AVENUE	SHEET 96	E

BM 2335

BM#1

CONTROL POINT #2
STA 52+99.43, 33' LT
SET ¾" REBAR W/AYRES CAP
40' W OF W EOB KERN AVE,
110' N OF S END OF ST
Y 125919.15 X 337558.55

TAINTER ELEMENTARY

N

RICE LAKE UTILITIES-WATER

SLOPE INTERCEPT

PT: 52+57.33

TLE

CP 2

5' SIDEWALK

R/W

5' EXISTING SIDEWALK

RICE LAKE UTILITIES-WATER

WE ENERGIES

PI: 57+58.46
Y = 126376.47
X = 337610.47

E SOUTH ST

52+00 53+00 54+00 55+00 56+00 57+00

N2° 22' 53"E

KERN AVE

CAUTION

5' SIDEWALK

5' EXISTING SIDEWALK

R/W

TLE

WE ENERGIES

PI STA = 52+12.05
Y = 125830.50
X = 337587.76
DELTA = 3°27'37"
D = 3°49'11"
T = 45.31'
L = 90.59'
R = 1500.00'
PC STA = 51+66.74
PT STA = 52+57.33

SLOPE INTERCEPT

RICE LAKE UTILITIES-SANITARY

STA 53+72 TO STA 58+10.00
MILL AND OVERLAY

CHARTER COMMUNICATIONS,
CENTURYLINK & MOSAIC TELECOM

RICE LAKE UTILITIES-ELECTRIC

CP 1

END PROJECT
ID 8997-00-38
STA 58+10.00
MATCH EXISTING
SAWCUT REQ'D

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
1	52+34	105.5' LT, SQUARE ON LIGHTPOLE	1139.33
		IN FRONT OF SCHOOL	

5

5

VCL = 160.00
K = 97.29

VPC STA 53+50.00
VPC EL 1138.79

VPI STA 54+50.00
VPI EL 1139.94

VPT STA 55+50.00
VPT EL 1139.46

VCL = 40.00
K = 113.55

VCL = 40.00
K = 15.82

VPC STA 57+90.00
VPC EL 1139.02

FINISHED PROFILE

EXISTING PROFILE

1.14%

-0.48%

-0.13%

2.40%

PROFILE FOR INFORMATION ONLY

VPI STA 52+50.00
VPI EL 1137.65

VPT STA 53+30.00
VPT EL 1138.56

VCL = 200.00
K = 123.11

VPC STA 57+10.00
VPC EL 1138.69

VPI STA 57+30.00
VPI EL 1138.59

VPC STA 57+50.00
VPC EL 1138.57

VPI STA 57+70.00
VPI EL 1138.54

VPT STA 57+90.00
VPT EL 1139.02

VCL = 40.00
K = 19.81

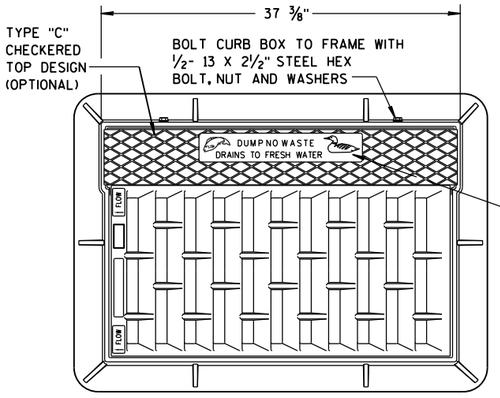
1144 1142 1140 1138 1136 1134 1132 1130

52+00 +25 +50 +75 53+00 +25 +50 +75 54+00 +25 +50 +75 55+00 +25 +50 +75 56+00 +25 +50 +75 57+00 +25 +50 +75 58+00

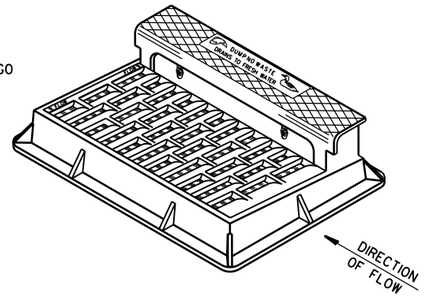
| | | |

Standard Detail Drawing List

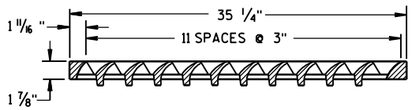
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-19A	CURB RAMPS TYPES 1 AND 1-A
08D05-19B	CURB RAMPS TYPES 2 AND 3
08D05-19D	CURB RAMPS TYPE 4B AND 4B1
08D05-19E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-19F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-19G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D18-01	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
08D19-01	DRIVEWAY AND SIDEWALK RAMPS TYPE Z
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
11B02-02	CONCRETE MEDIAN NOSE
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C08-18A	LONGITUDINAL MARKING (MAINLINE)
15C08-18B	PAVEMENT MARKING (TURN LANES)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C27-02B	PAVEMENT MARKING (ISLANDS)
15D20-04	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D30-03A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

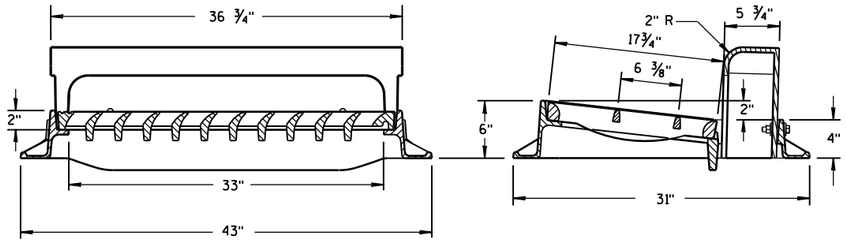


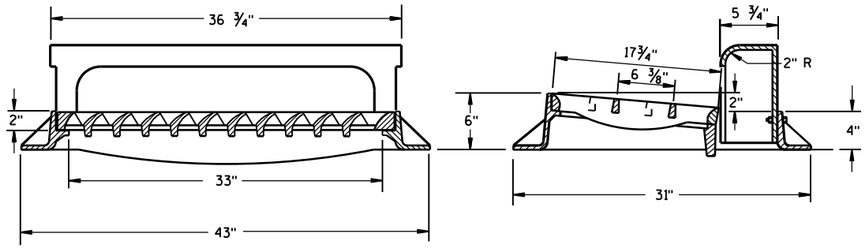
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

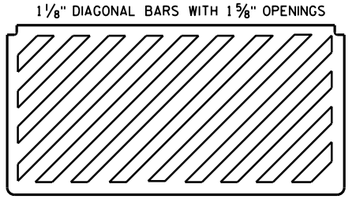






TYPE "H"

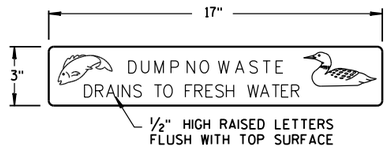
NOTE: EITHER CASTING IS ACCEPTABLE



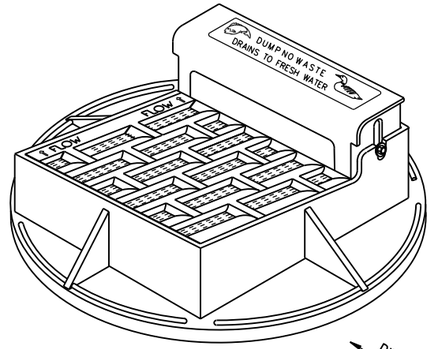
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

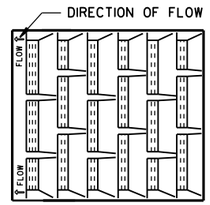
NOTE:
GRATE IS REVERSIBLE.

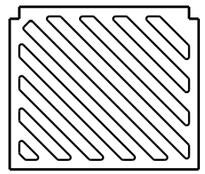
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

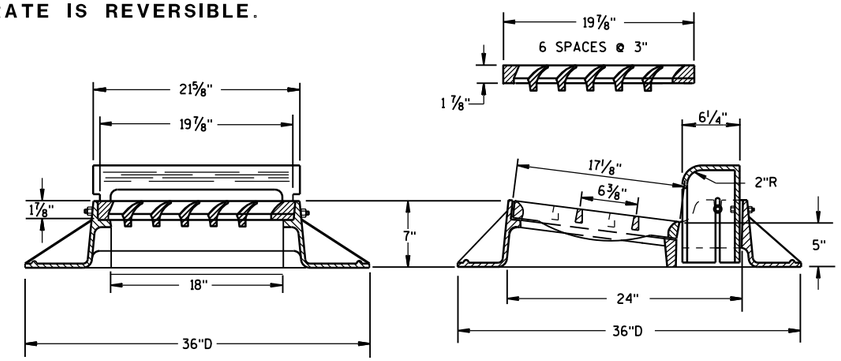




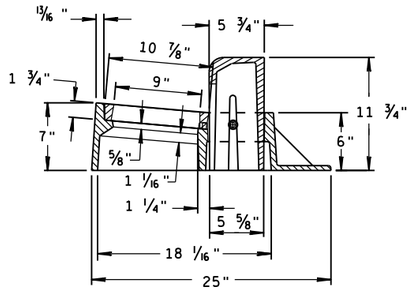
SPECIAL GRATE FOR TYPE "A" COVER

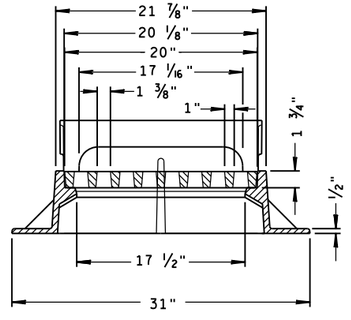
(MEASURES 19 3/4" X 17" X 1 7/8")

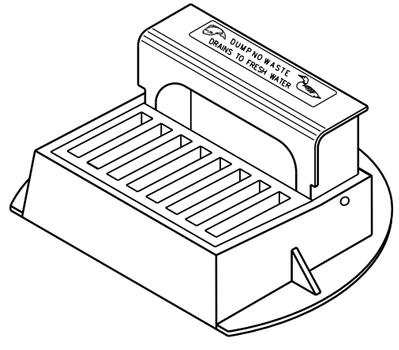
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "A"







TYPE "Z"

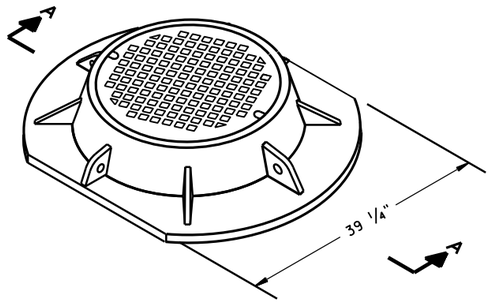
INLET COVERS
TYPE A, H, A-S, H-S & Z

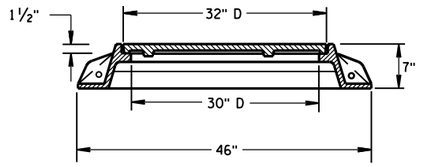
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

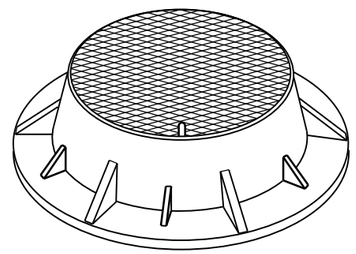
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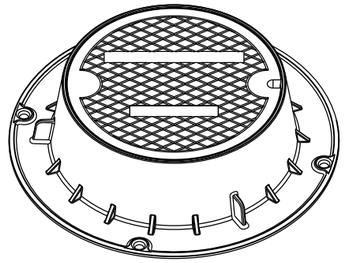
S.D.D. 8 A 5-19a

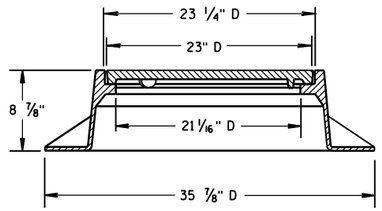


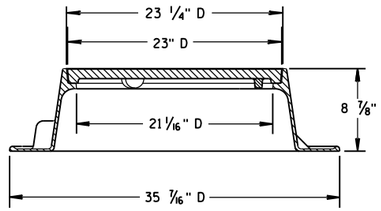


SECTION A-A
TYPE "K"









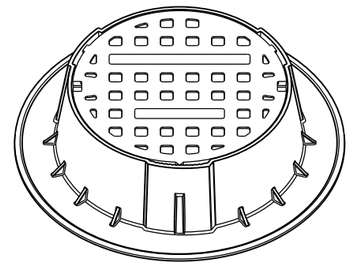
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

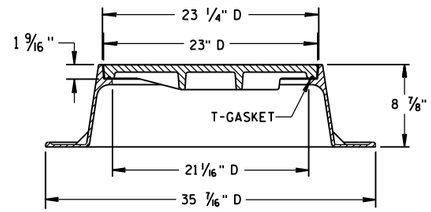
GENERAL NOTES

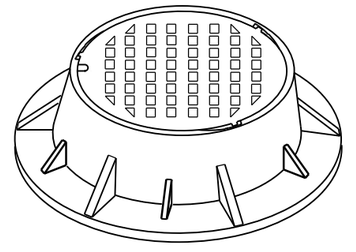
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

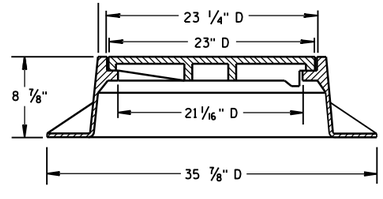
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

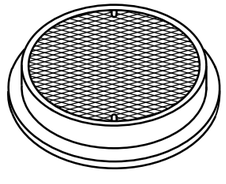


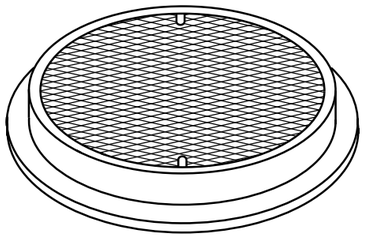


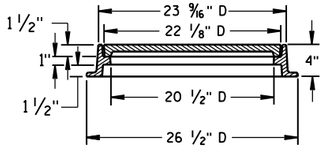




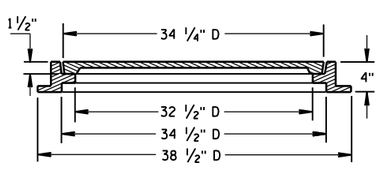
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



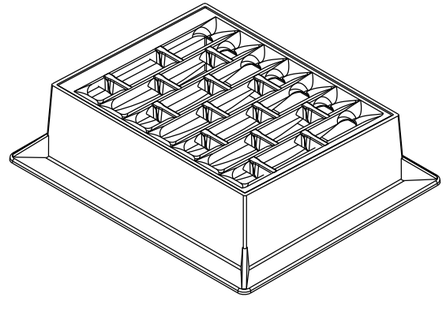


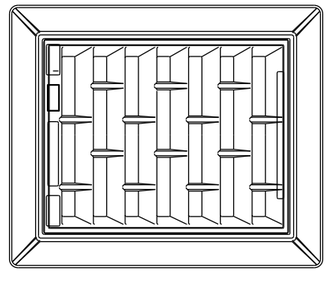


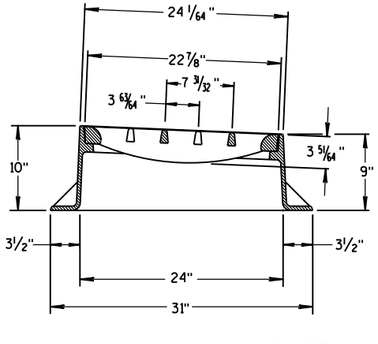
TYPE "L"

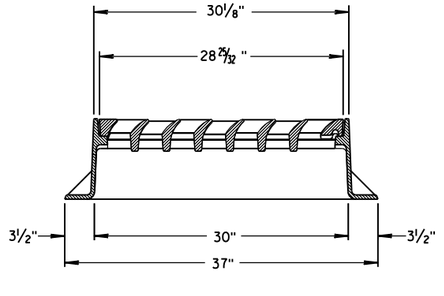


TYPE "M"









INLET COVER TYPE "BW"

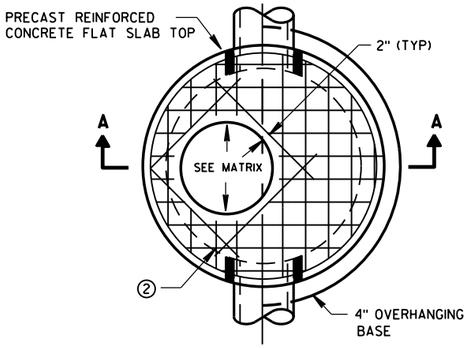
INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

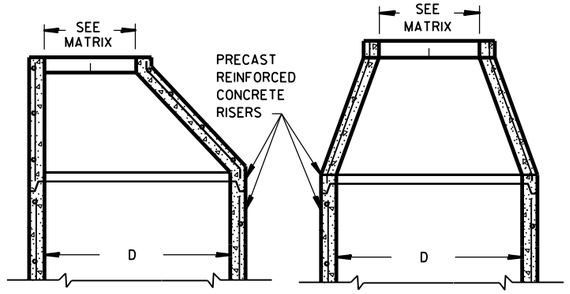
APPROVED
11/27/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 A 5-19d

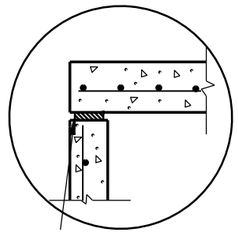


PLAN VIEW CIRCULAR OPENING

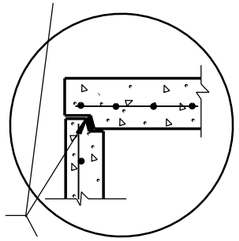


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

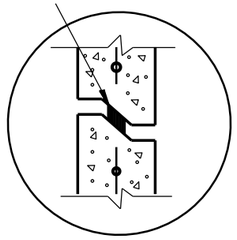


TOP WITH PLAIN END JOINT



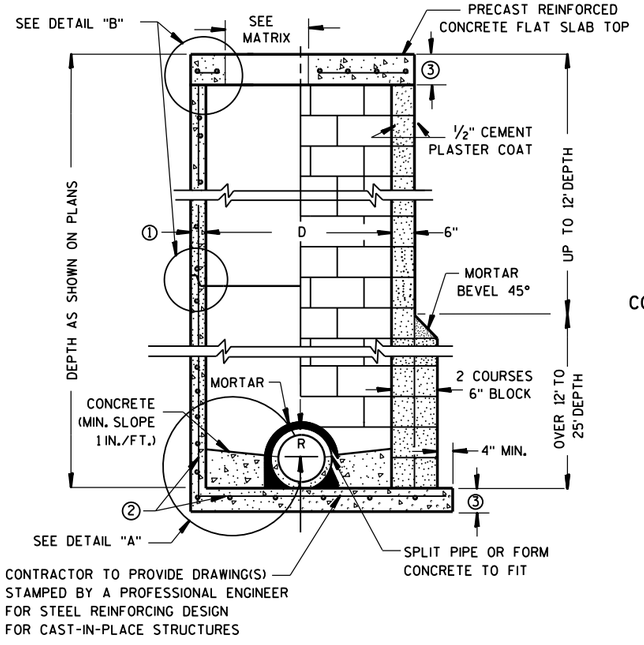
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



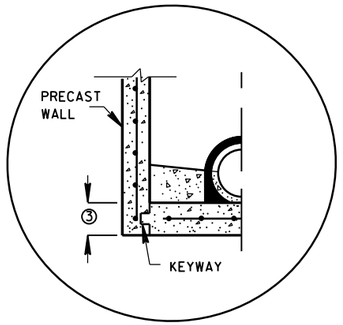
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

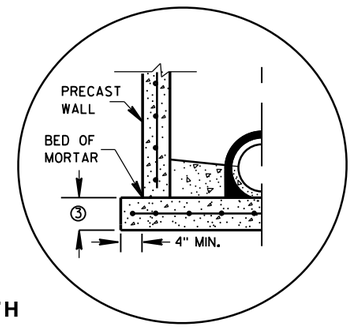


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

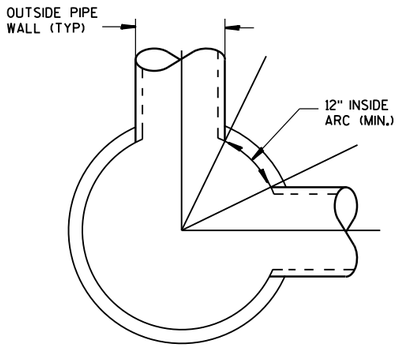


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

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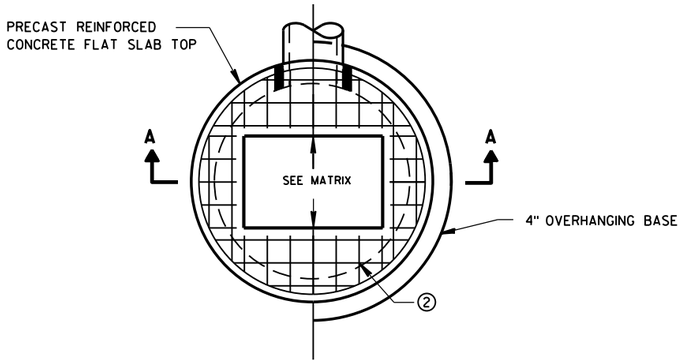
APPROVED

Sept., 2016
DATE

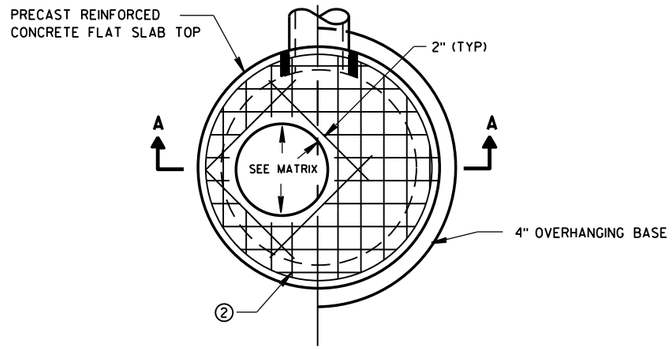
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
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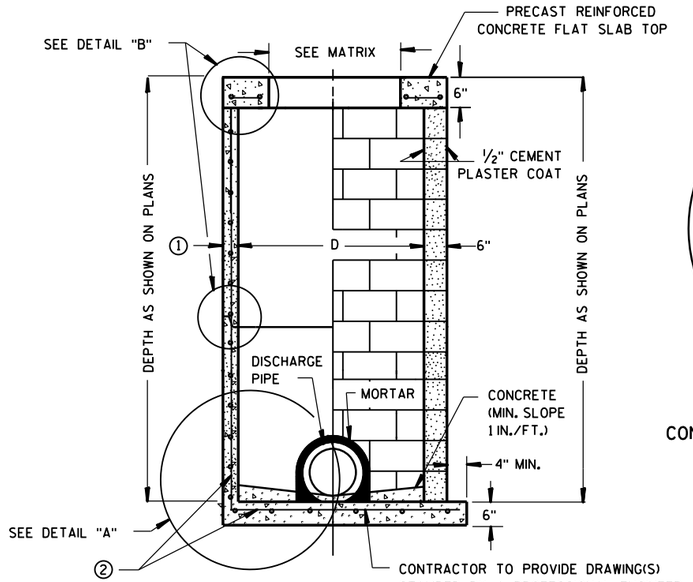
6
S.D.D. 8 B 9-2



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

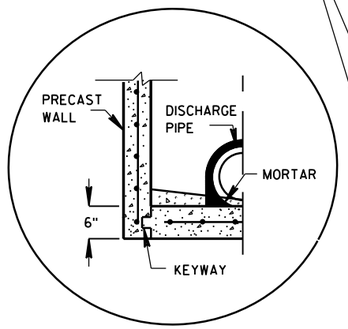


SECTION A-A

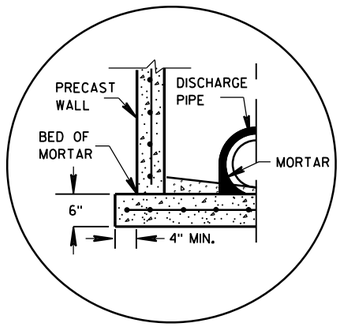
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

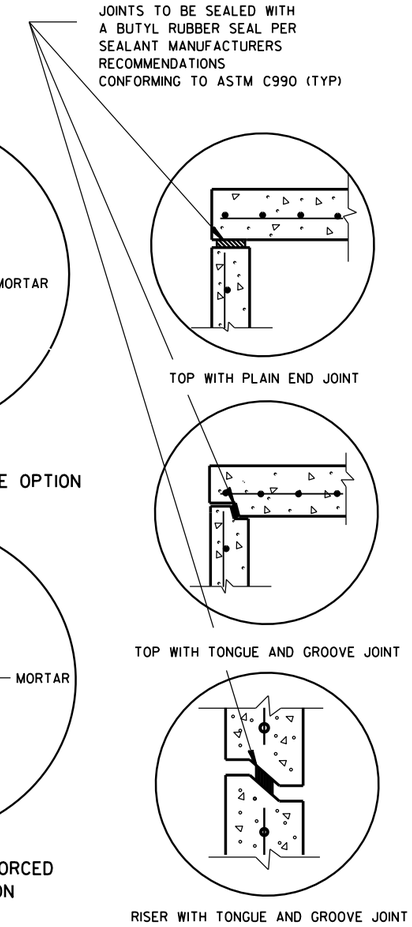


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

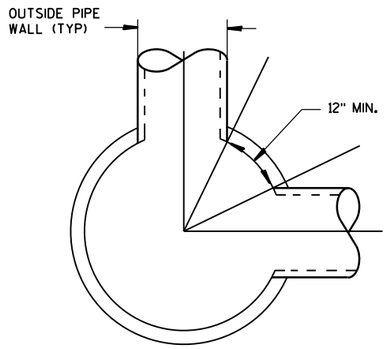
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

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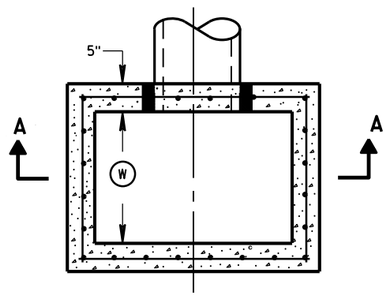
APPROVED
Sept., 2016 — /S/ Rodney Taylor
DATE — ROADWAY STANDARDS | UNIT SUPERVI ENT
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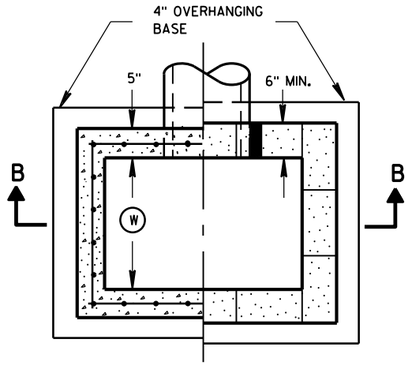
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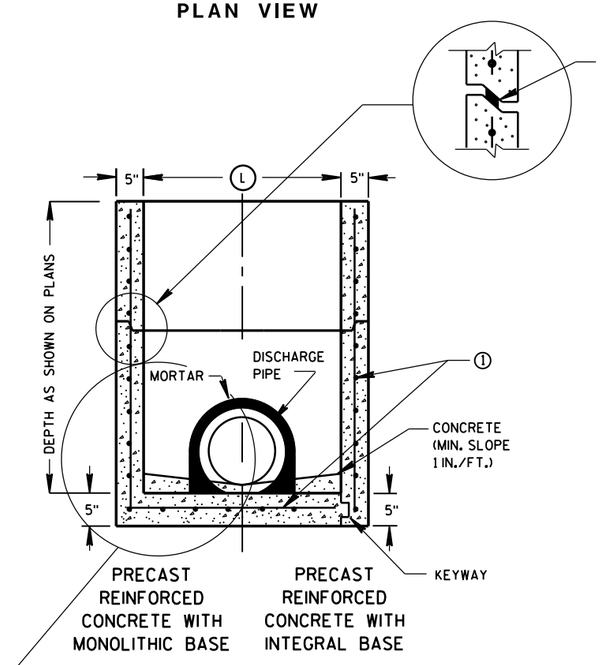
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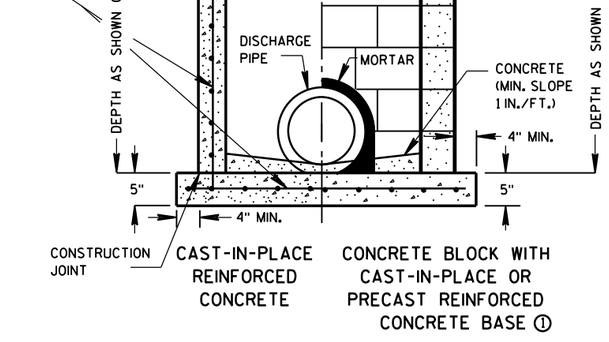
PLAN VIEW



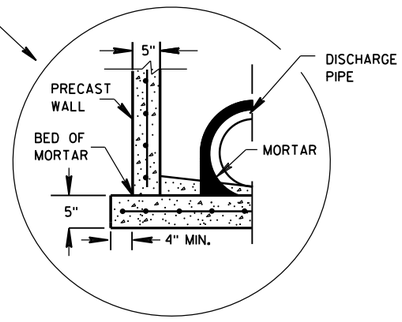
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

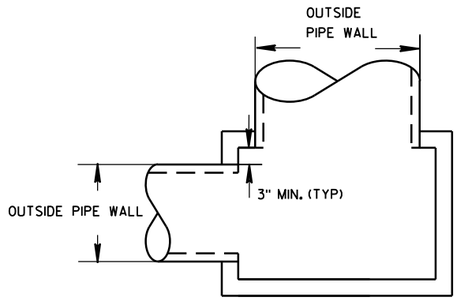
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



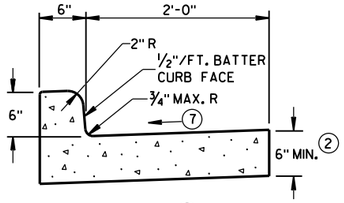
DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

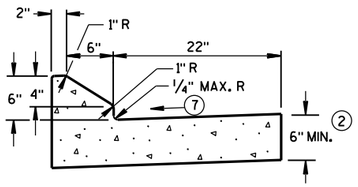
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT UNIT SUPERVIS
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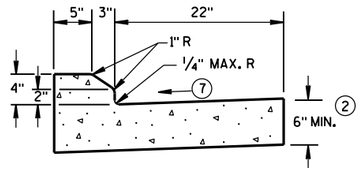
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT



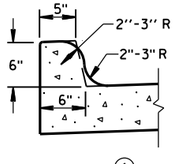
TYPES A (1) & D



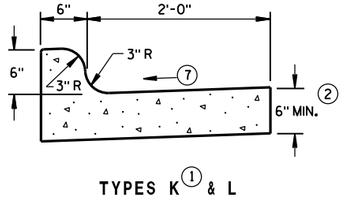
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

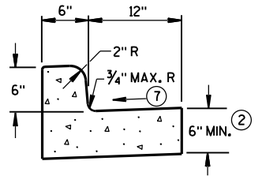


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



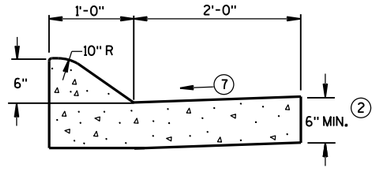
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

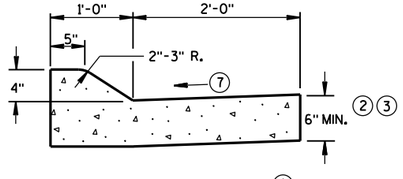


TYPES A (1) & D

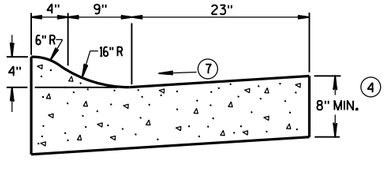
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

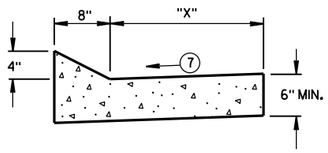


4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT (1)

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(5) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

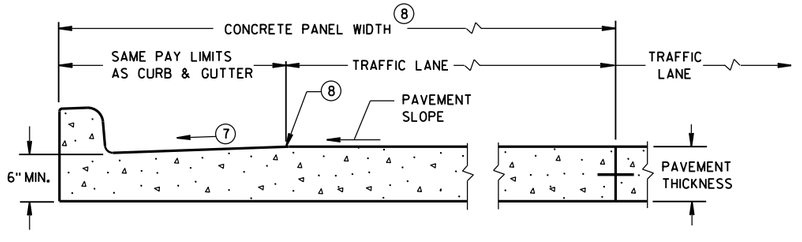
(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

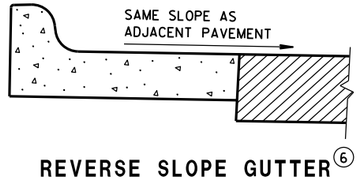
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB & GUTTER

* BIKE LANE IS NOT SHOWN.



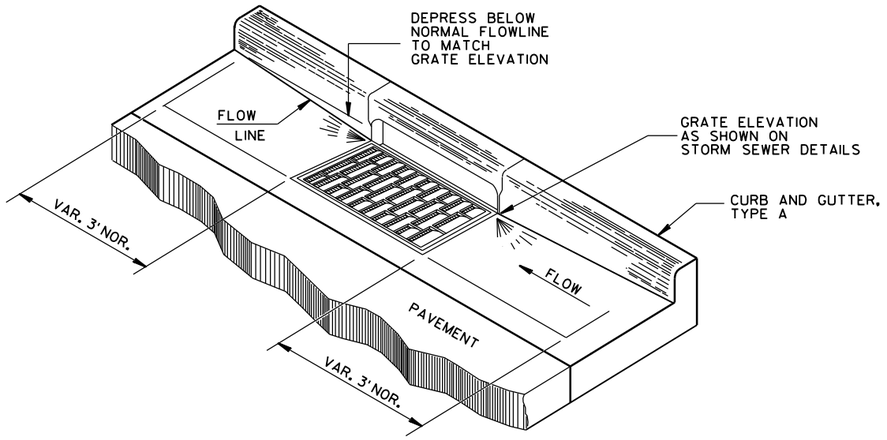
REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

CONCRETE CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

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DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

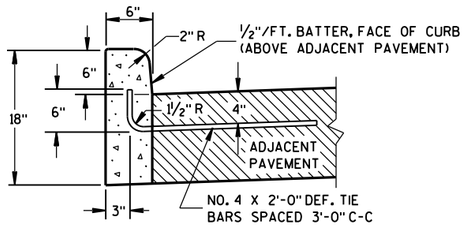
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

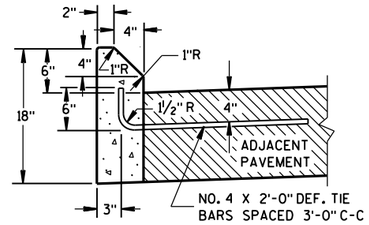
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

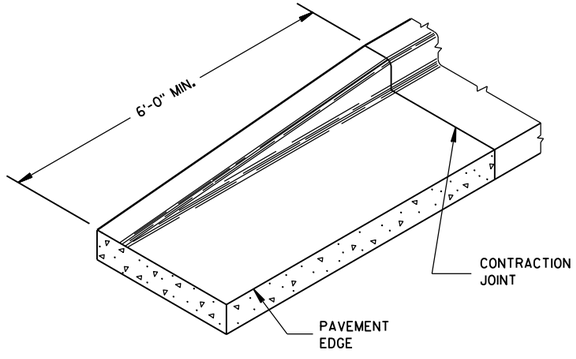


TYPES A(1) & D

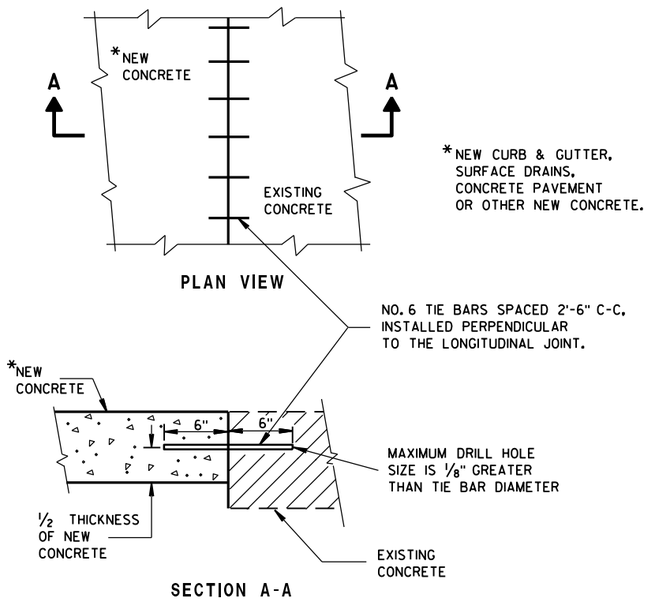


TYPES G(1) & J

CONCRETE CURB



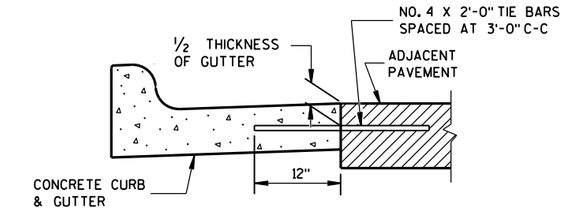
END SECTION CURB & GUTTER



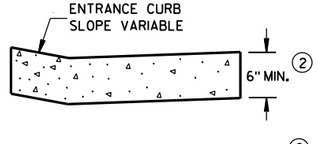
PLAN VIEW

SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

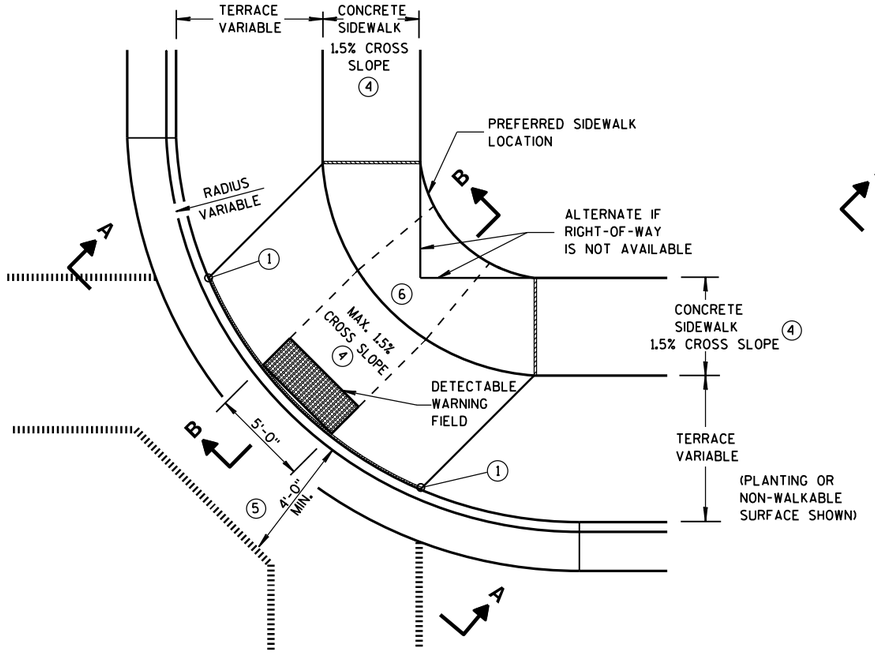
CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

6

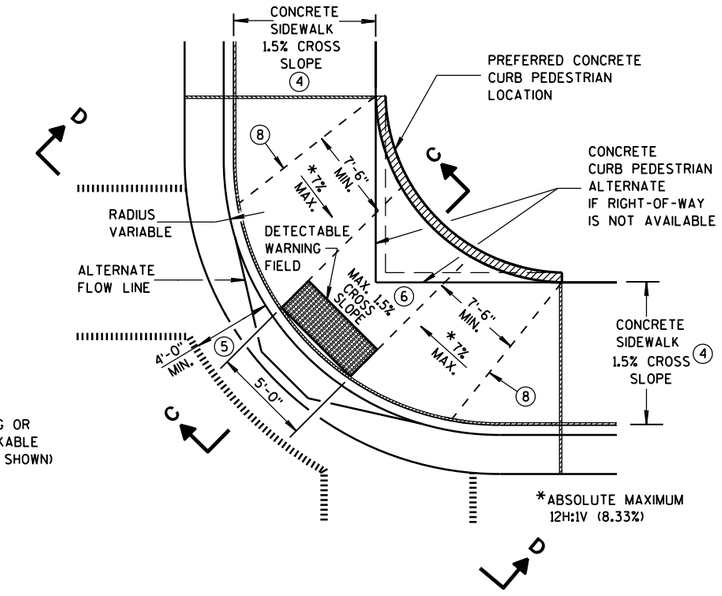
S.D.D. 8 D 1-20b



PLAN VIEW

TYPE 1 RAMP

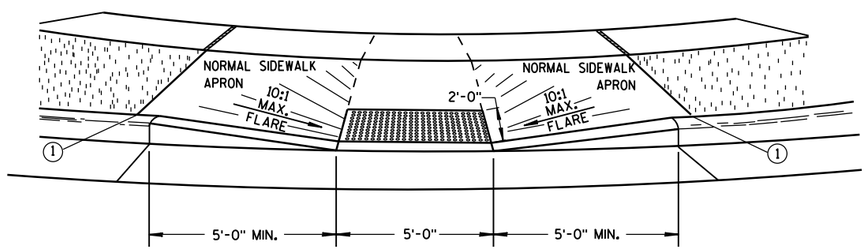
(CENTER OF CORNER RADIUS)



PLAN VIEW

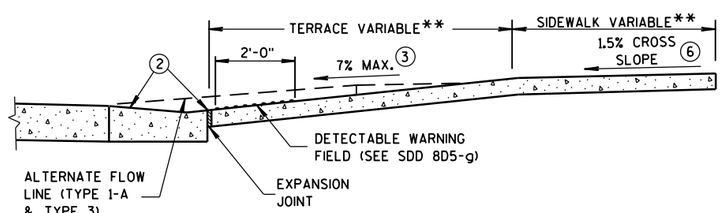
TYPE 1-A RAMP

(NO TERRACE)

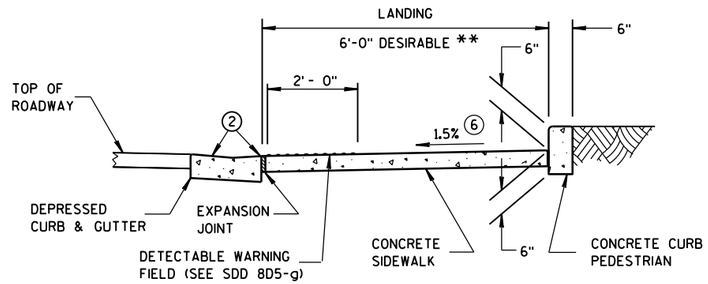


VIEW A-A

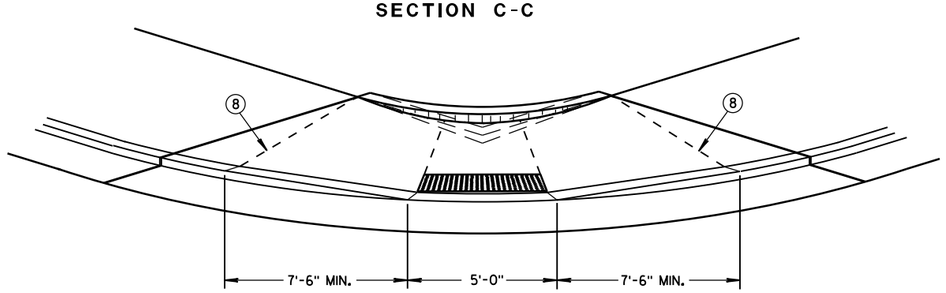
** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B



SECTION C-C



VIEW D-D

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA. (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

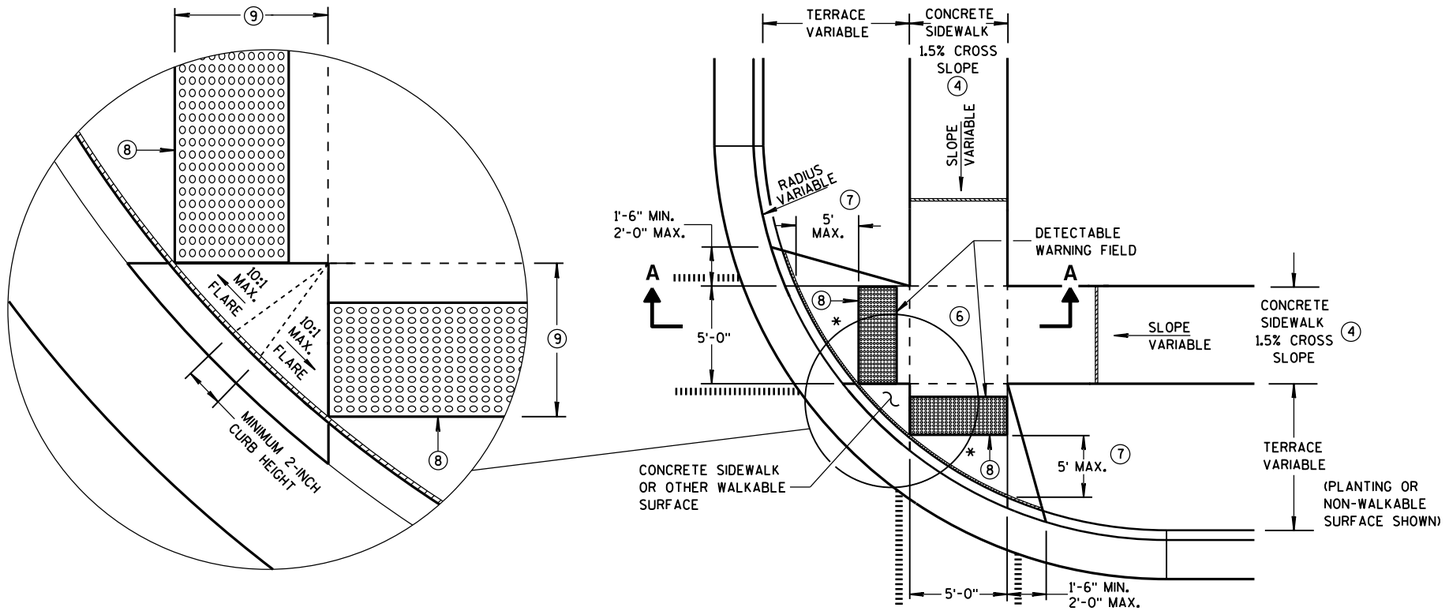
- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

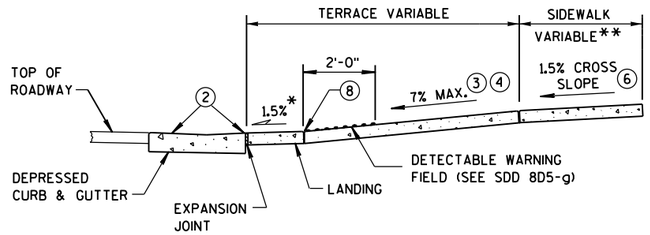
6

S.D.D. 8 D 5-19a



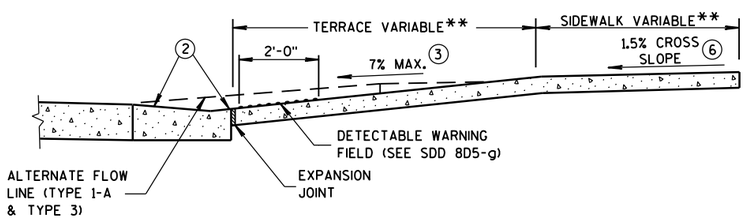
PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

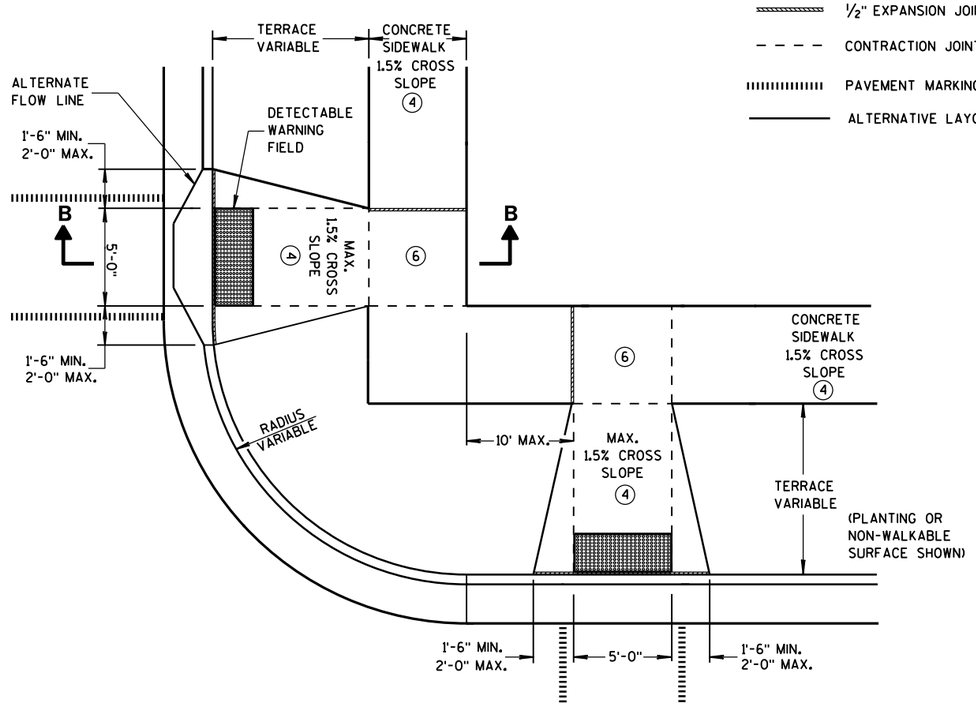
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN THIS DISTANCE IS LESS THAN 6'-0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

LEGEND

- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



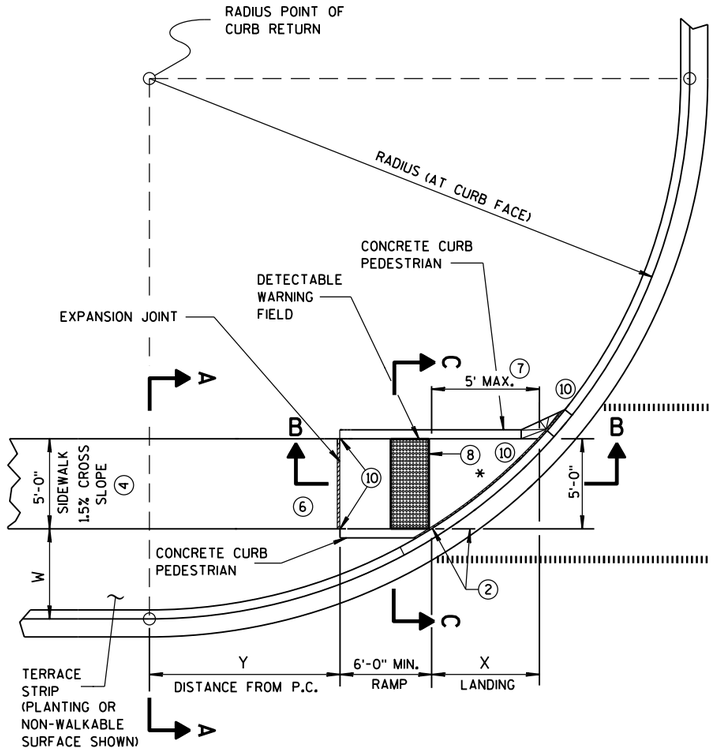
PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

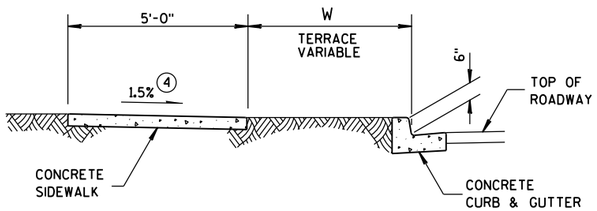
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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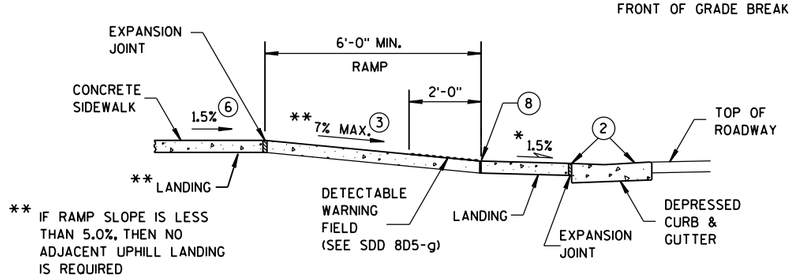
S.D.D. 8 D 5-19b



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



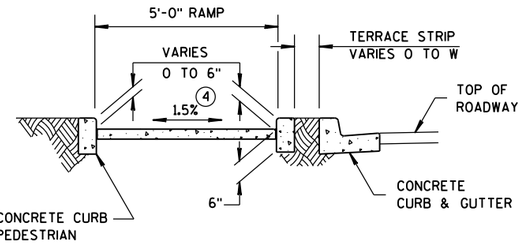
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B-B FOR TYPE 4B

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"		W = 8'-0"		W = 9'-0"		W = 10'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2'-10¼"	0'-5"	2'-1"	1'-4½"	1'-5"	2'-1"	0'-10"	2'-7½"	0'-3¼"	3'-0¼"						
15 FEET	4'-6¾"	2'-1¾"	3'-9"	3'-5¼"	3'-1¼"	4'-6"	2'-6¾"	5'-4½"	2'-1"	6'-1"	1'-8"	6'-8½"	1'-3¼"	7'-2½"	0'-10¾"	7'-7¼"
20 FEET	5'-9¾"	3'-6½"	4'-11½"	5'-1¾"	4'-3¼"	6'-5½"	3'-8¾"	7'-7"	3'-3"	8'-6½"	2'-10"	9'-4½"	2'-5½"	10'-1¼"	2'-1¼"	10'-9"
30 FEET			6'-9¼"	7'-11¼"	6'-0¼"	9'-8"	5'-5"	11'-1¾"	4'-10¾"	12'-5¾"	4'-5½"	13'-7¾"	4'-0¾"	14'-8½"	3'-8½"	15'-8¼"
40 FEET									6'-1¾"	15'-8½"	5'-8"	17'-2"	5'-3"	18'-5¾"	4'-10¾"	19'-8¼"
50 FEET															5'-10¼"	23'-2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH



SECTION C-C FOR TYPE 4B

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

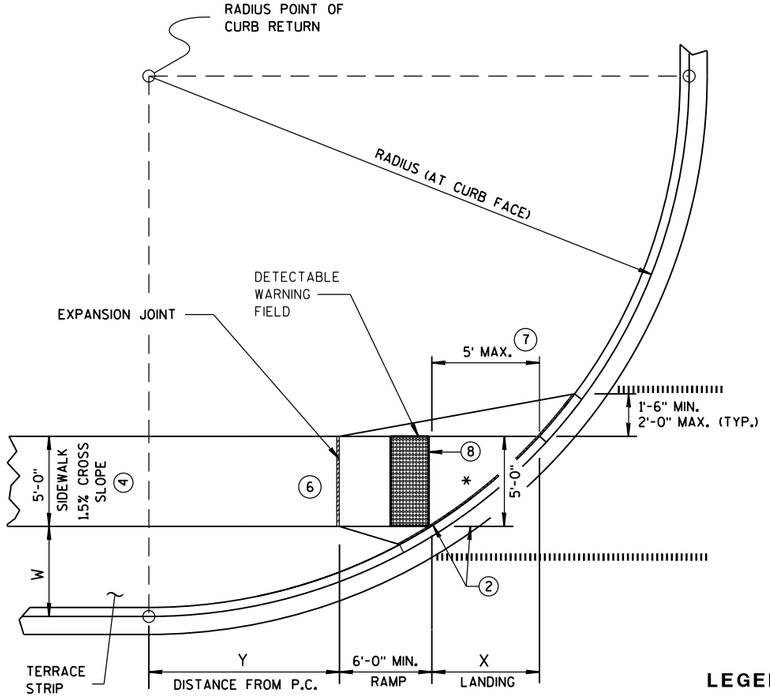
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

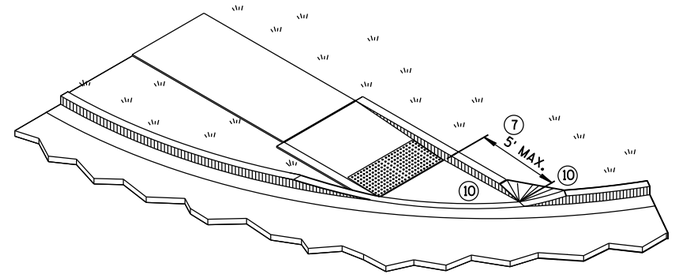
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

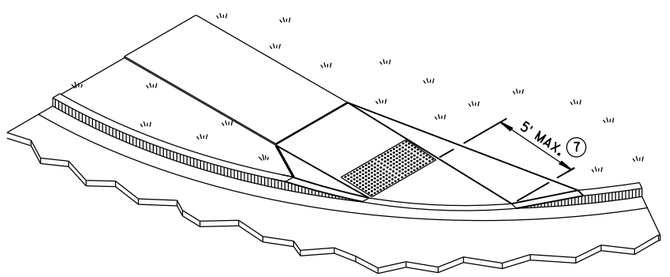
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



CURB RAMP TYPE 4B1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

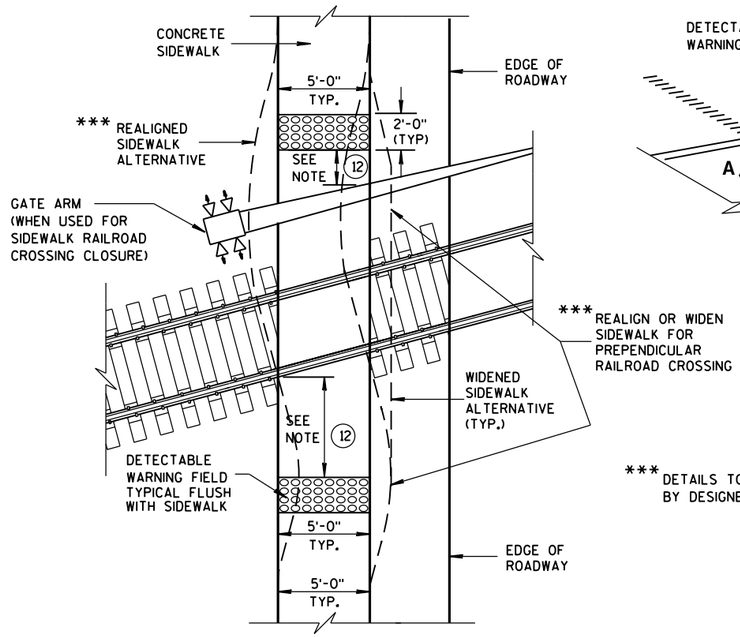
PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

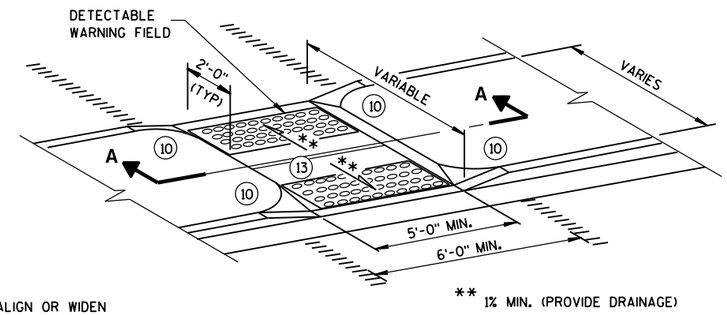
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S.D.D. 8 D 5-19d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING

*** DETAILS TO BE DETERMINED BY DESIGNER



** 1% MIN. (PROVIDE DRAINAGE)

MEDIAN ISLAND
NON-ELEVATED PEDESTRIAN CROSSING
TYPE 5

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

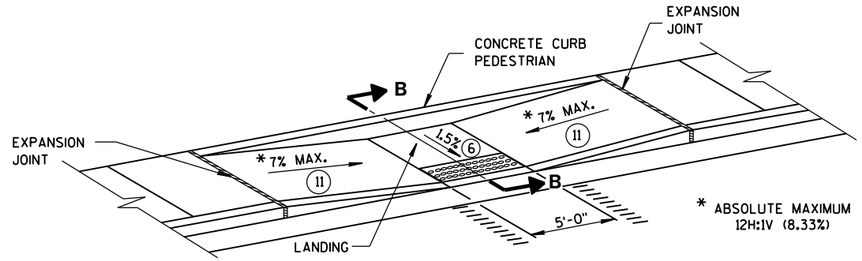
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

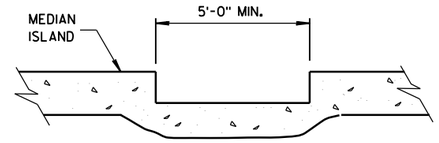
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

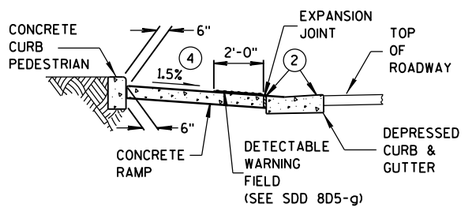
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STREET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2-FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.



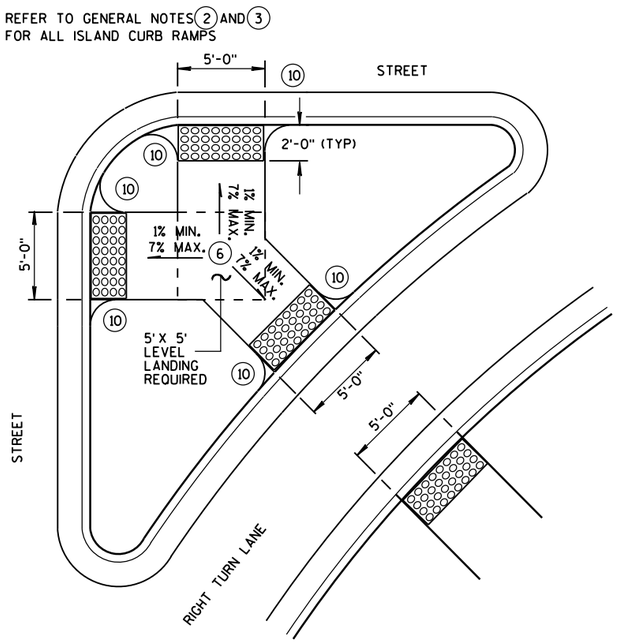
MID-BLOCK CROSSING
TYPE 7A



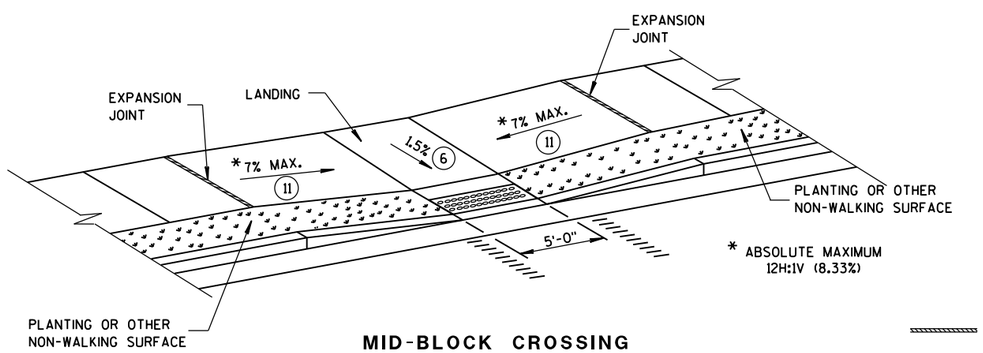
SECTION A-A



SECTION B-B



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

LEGEND

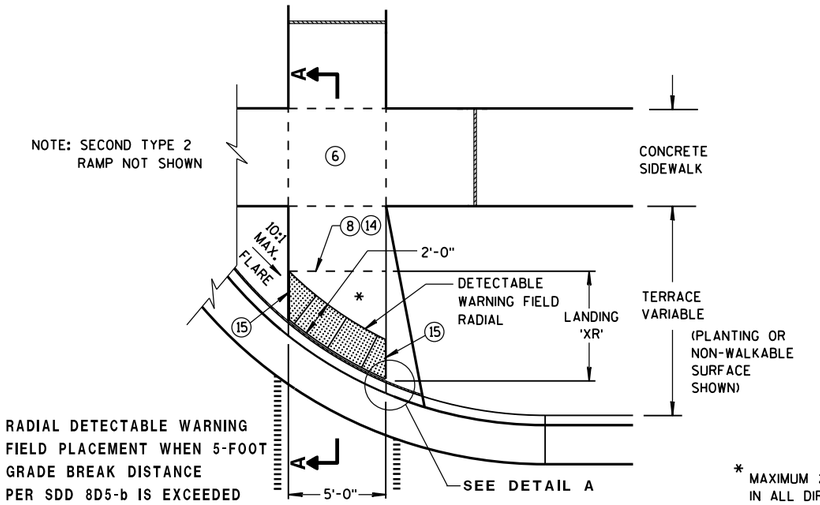
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

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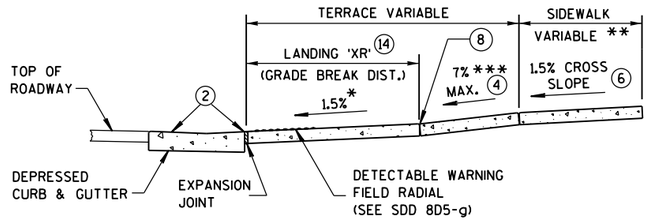


TYPE 2 RAMP
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION A-A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS (DWFs) THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

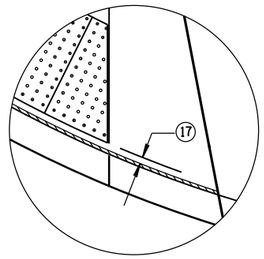
(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION 'XR') REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

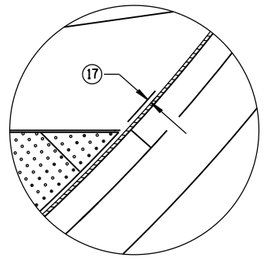
(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1'X 2' RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2'-0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

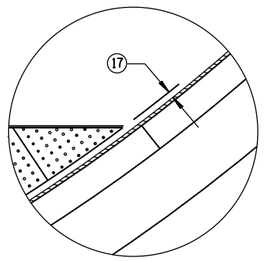
(17) A MAXIMUM 3-INCH CONCRETE BORDER WIDTH IS ALLOWABLE IN FRONT OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.



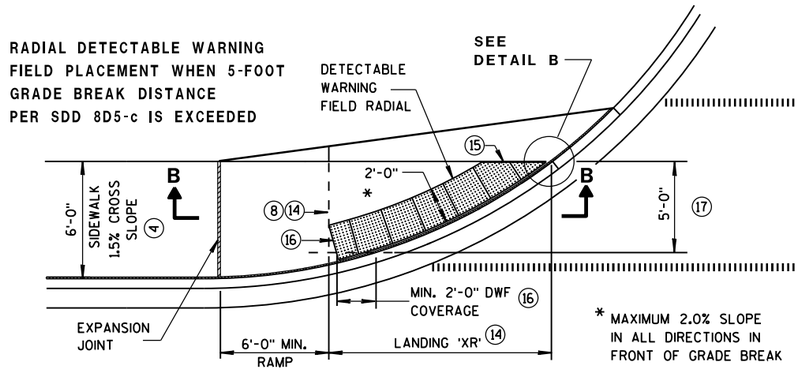
DETAIL A



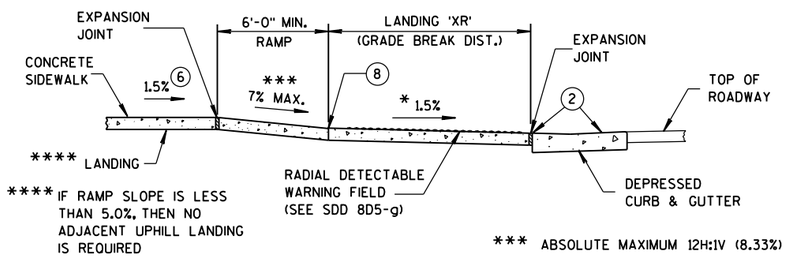
DETAIL C



DETAIL B



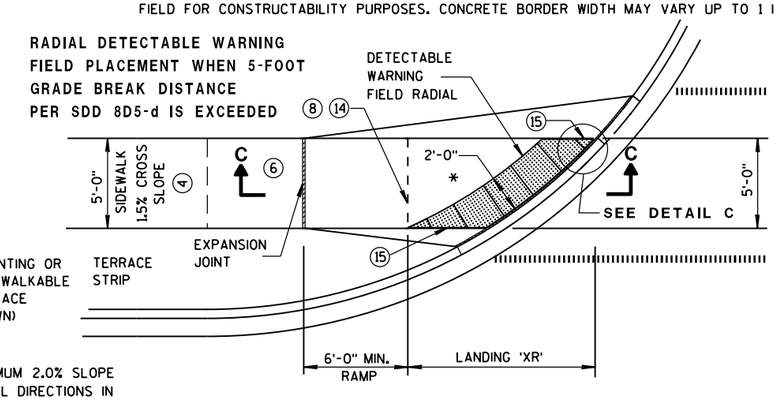
CURB RAMP TYPE 4A1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

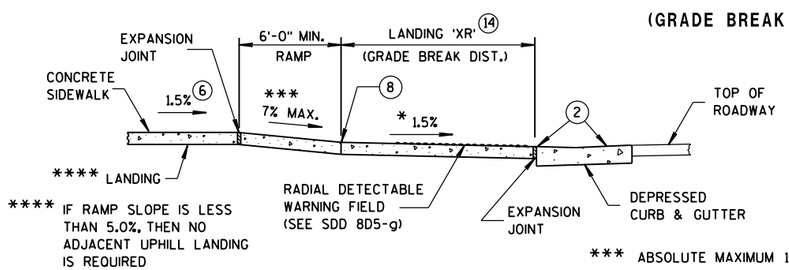
*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION B-B FOR TYPE 4A1



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

CURB RAMP TYPE 4B1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION C-C FOR TYPE 4B1

CURB RAMPS
RADIAL DETECTABLE WARNING FIELD APPLICATIONS

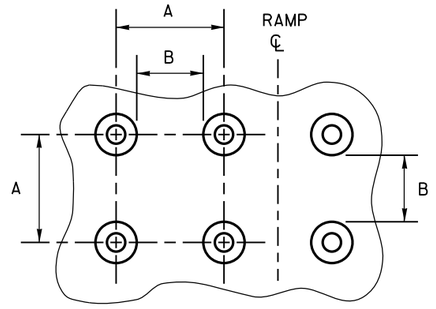
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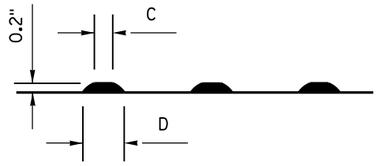
S.D.D. 8 D 5-19f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES

DETECTABLE WARNING PATTERN DETAIL

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

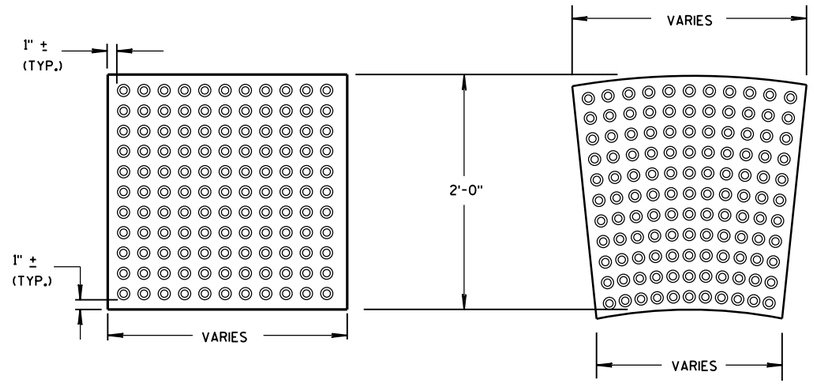
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGES IN COMBINATION WITH SQUARE PANELS ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

⑮ FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

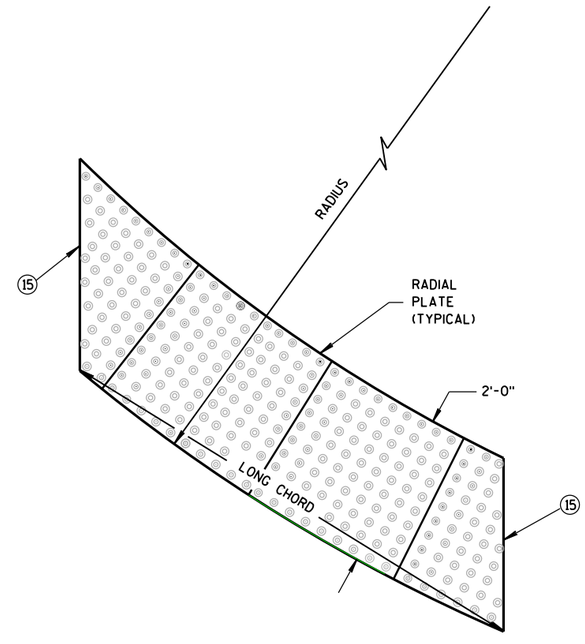


RECTANGULAR PLATES

RADIAL PLATES

DETECTABLE WARNING FIELDS (TYPICAL)

PLAN VIEW



RADIAL DETECTABLE WARNING FIELD ATTRIBUTES

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

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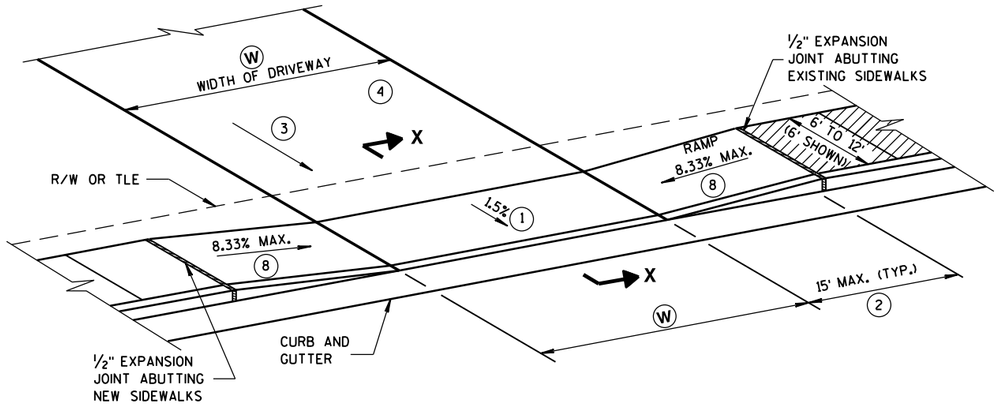
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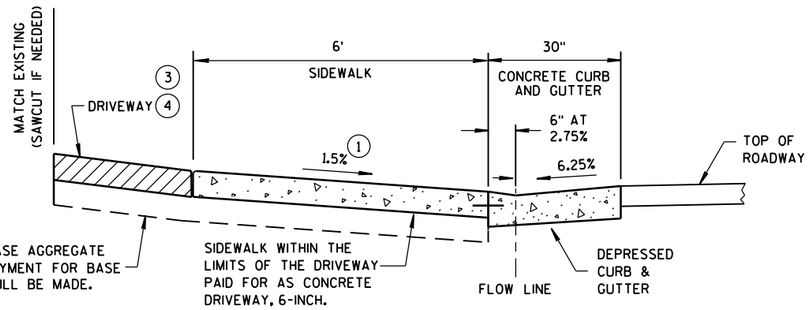
S.D.D. 8 D 5-19g

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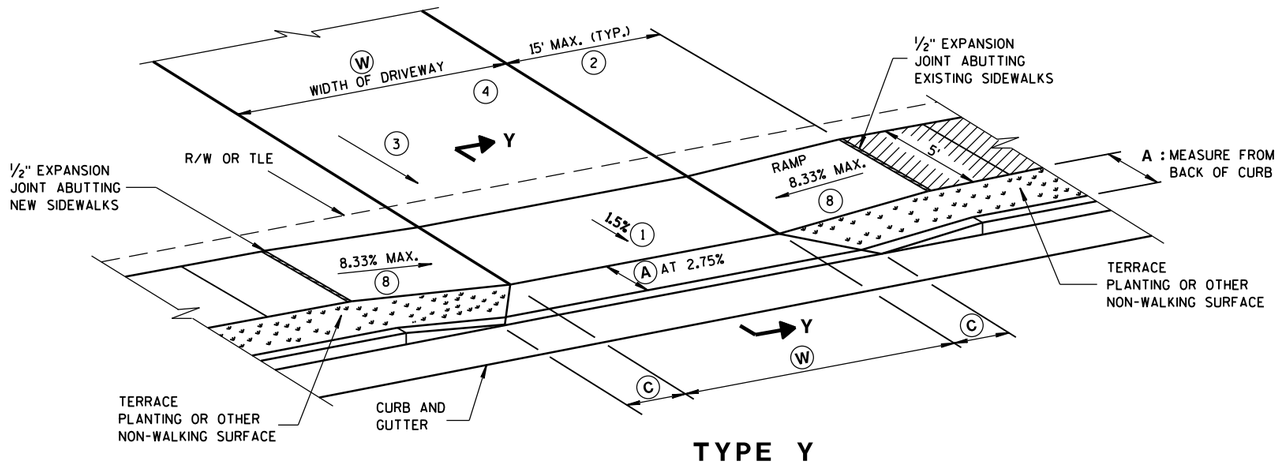
S.D.D. 8 D 5-19g



TYPE X
SIDEWALK ABUTS CURB & GUTTER
TERRACE VARIES 0 TO 3 FEET



SECTION X-X

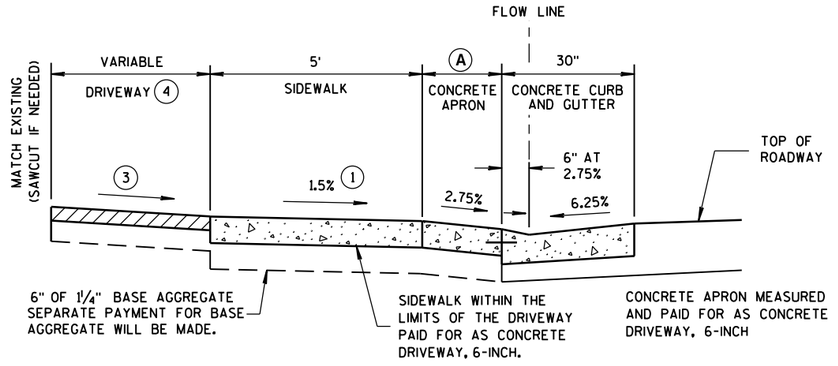


TYPE Y
SIDEWALK WITH NARROWER TERRACE
TERRACE VARIES 4 TO 6 FEET

W: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)
16' MIN. - 35' MAX. COMMERCIAL (CE)

GENERAL NOTES

1. CONSTRUCTION TOLERANCE OF 0.5% ± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
2. THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.
3. DRIVEWAY SLOPES: DESIRABLE MAXIMUM
   - 10.5% UP AWAY FROM SIDEWALK (SAG)
   - 8.5% DOWN AWAY FROM SIDEWALK (CREST)
   - ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG
4. DRIVEWAY TYPES
   - 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
   - 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
   - 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES)
5. PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.
6. (W) IS SHOWN ON PLAN AND PROFILE SHEETS.
7. OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.
8. SLOPE SIDEWALK RAMP TOWARD APRON AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.



NOTE: SIDEWALK MAY BE DEPRESSED IN DRIVEWAY AREAS

SECTION Y-Y

DRIVEWAY DETAIL
WITH CONCRETE CURB & GUTTER
(URBAN AND SUBURBAN)

TABLE Y

(A) FEET	(C) FEET
3.5'	2.0'
4.5'	3.0'
5.5'	3.5'

NOT TO SCALE

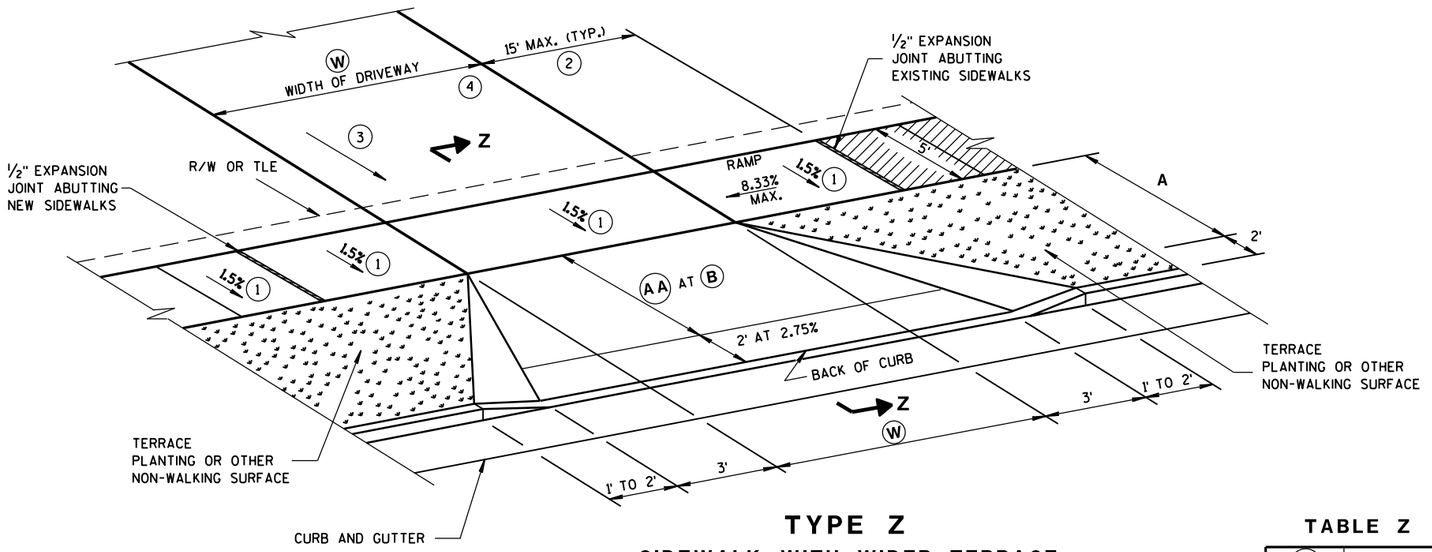
DRIVEWAY AND SIDEWALK RAMPS
TYPES X & Y

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DATE — ROADWAY STANDARDS UNIT SUPERV
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TYPE Z

SIDEWALK WITH WIDER TERRACE
TERRACE VARIES 7 TO 12 FEET

TABLE Z

AA FEET	B %
4.5'	11.5%
5.5'	9-11.5%
6.5'	8-11.5%
7.5'	7-11.5%
8.5'	6-11.5%
9.5'	5-11.5%

GENERAL NOTES

(1) CONSTRUCTION TOLERANCE OF 0.5% ± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

(2) THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.

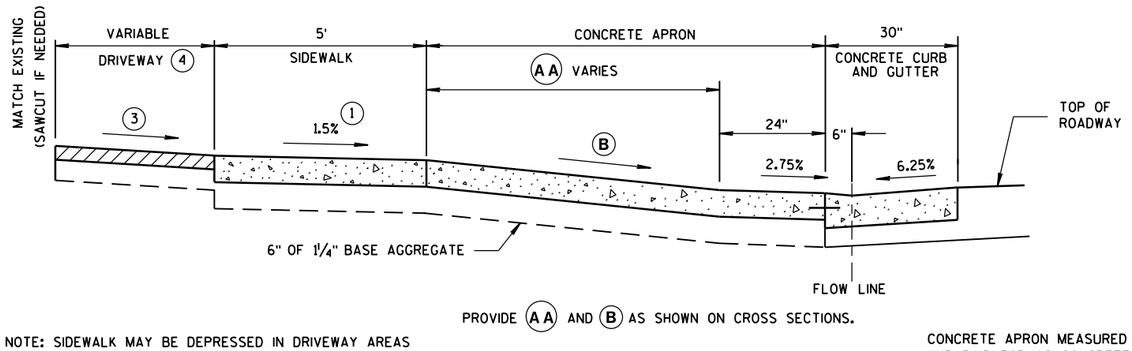
(3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM
10.5% UP AWAY FROM SIDEWALK (SAG)
8.5% DOWN AWAY FROM SIDEWALK (CREST)
ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

(4) DRIVEWAY TYPES
- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES)

(5) PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

(6) (W) IS SHOWN ON PLAN AND PROFILE SHEETS.

(7) OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.



PROVIDE (AA) AND (B) AS SHOWN ON CROSS SECTIONS.

NOTE: SIDEWALK MAY BE DEPRESSED IN DRIVEWAY AREAS FOR **B** VALUES NOT SHOWN IN TABLE Z.

SIDEWALK WITHIN THE LIMITS OF THE DRIVEWAY PAID FOR AS CONCRETE DRIVEWAY, 6-INCH.

SEPARATE PAYMENT FOR BASE AGGREGATE WILL BE MADE.

CONCRETE APRON MEASURED AND PAID FOR AS CONCRETE DRIVEWAY, 6-INCH

SECTION Z-Z

DRIVEWAY DETAIL
WITH CONCRETE CURB & GUTTER

(URBAN AND SUBURBAN)

(W): 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)
16' MIN. - 35' MAX. COMMERCIAL (CE)

NOT TO SCALE

DRIVEWAY AND SIDEWALK RAMPS TYPE Z

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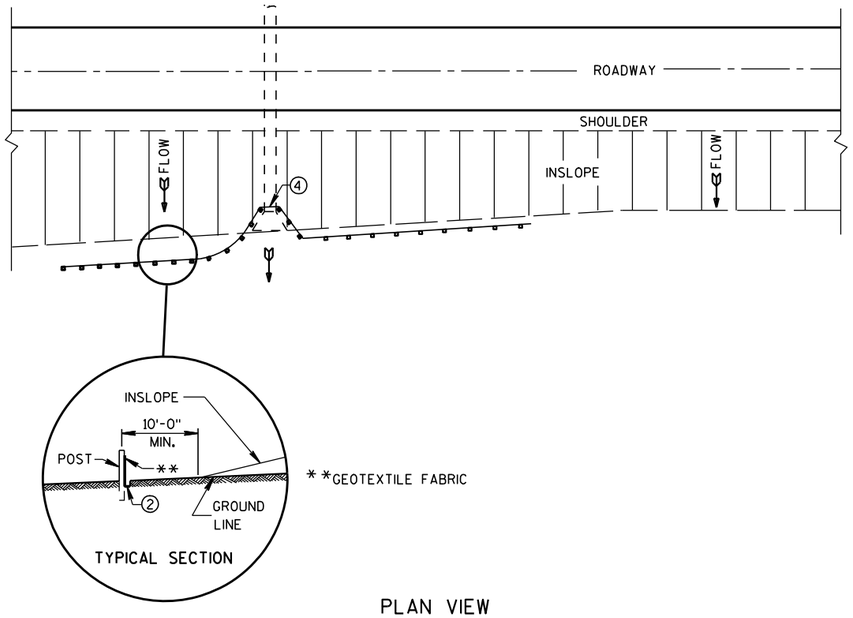
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S.D.D. 8 D 19-1

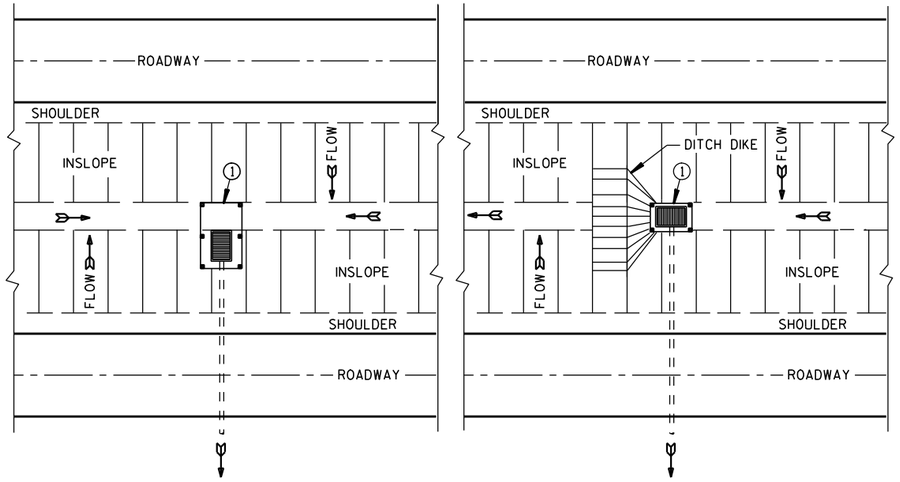
6

S.D.D. 8 D 19-1



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

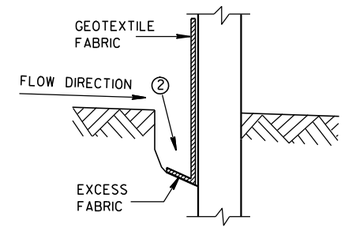
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

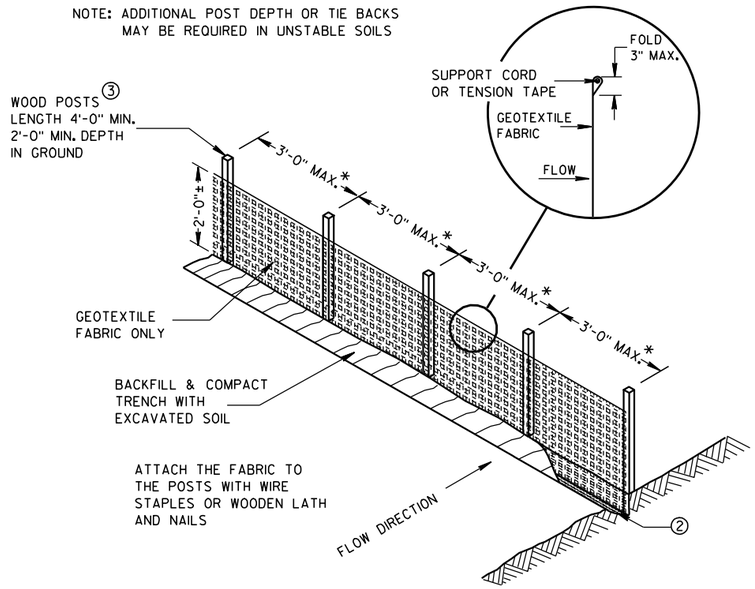
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

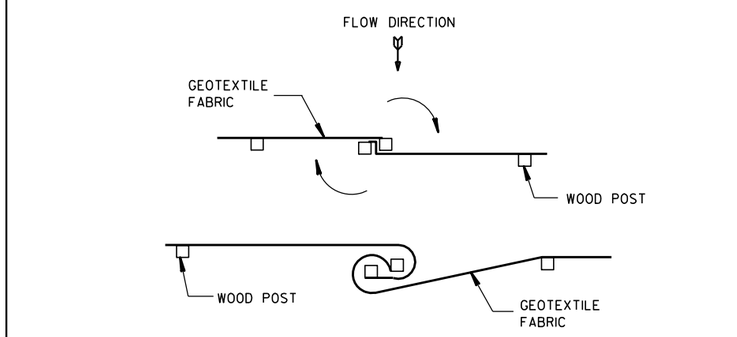
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



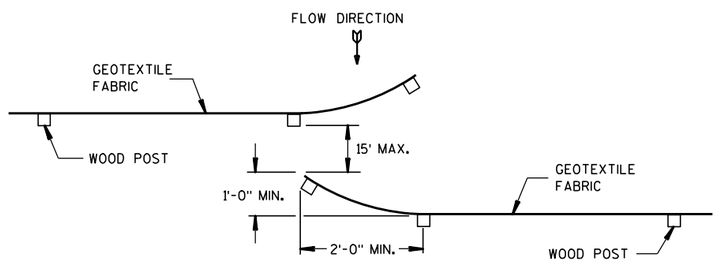
TRENCH DETAIL



SILT FENCE

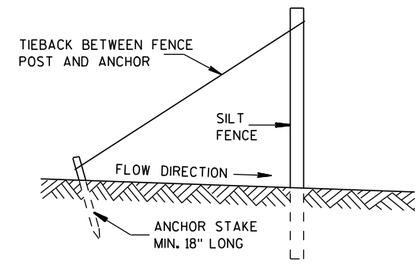


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

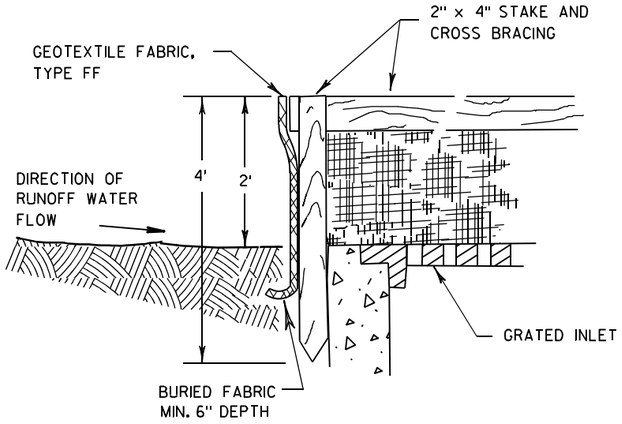
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

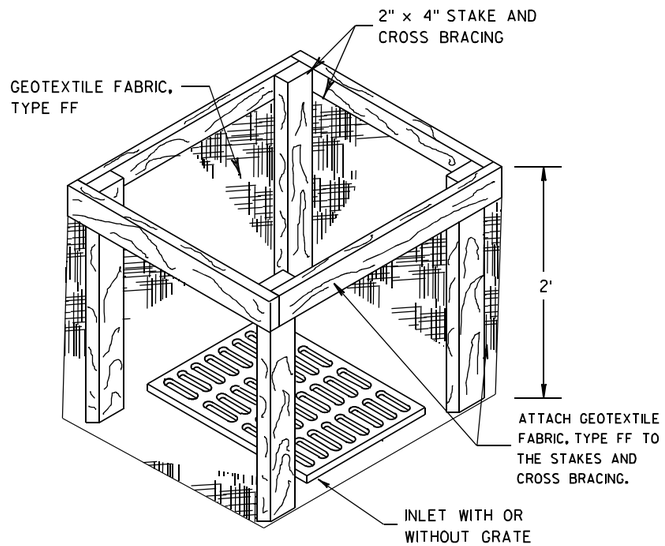
6

S.D.D. 8 E 9-6

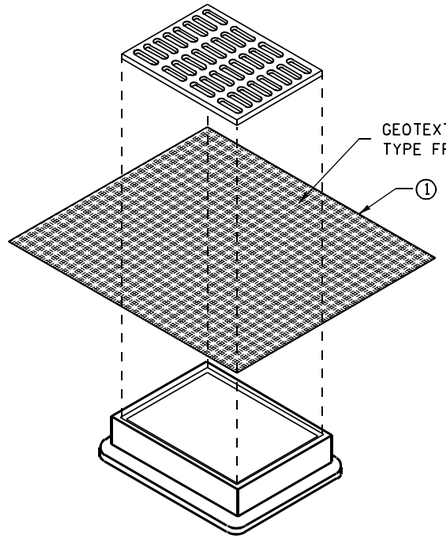
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S.D.D. 8 E 9-6



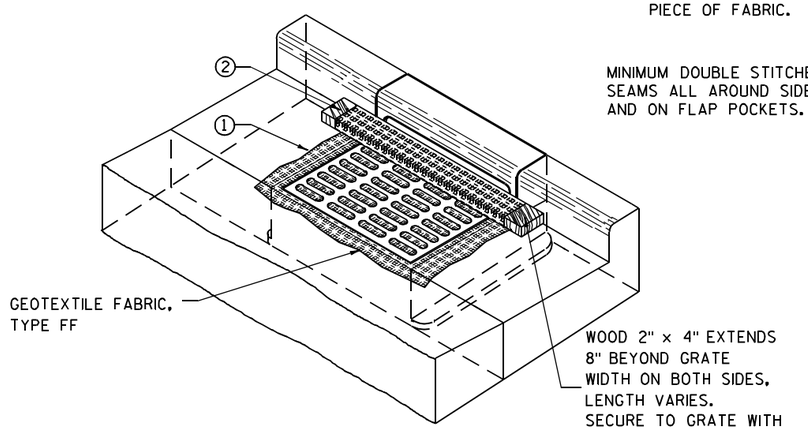


INLET PROTECTION, TYPE A

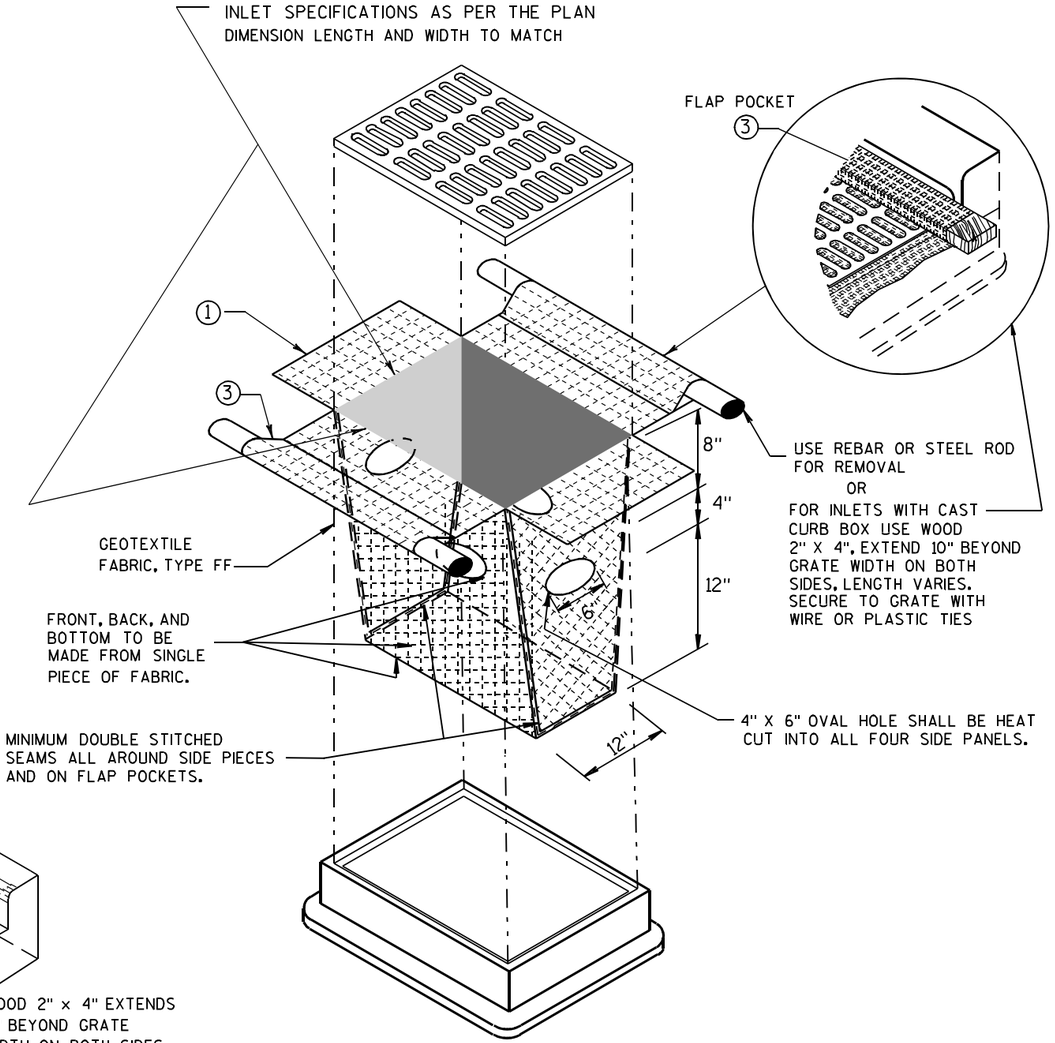


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6
S.D.D. 8 E 10-2

METAL APRON ENDWALLS

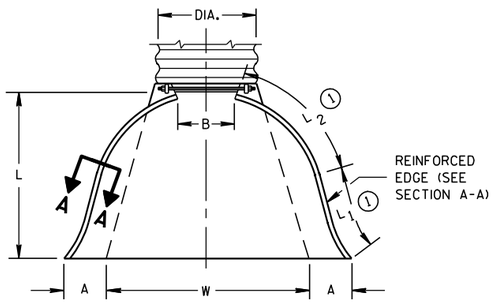
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

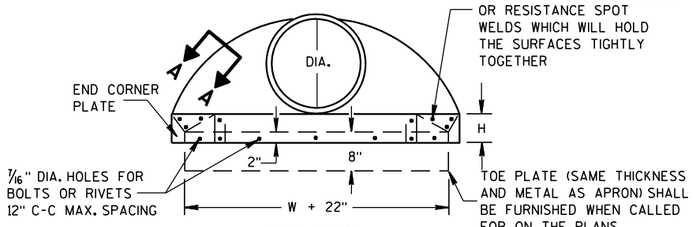
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

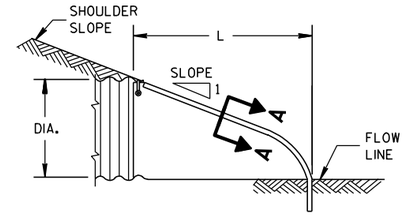
* MINIMUM
** MAXIMUM



PLAN VIEW

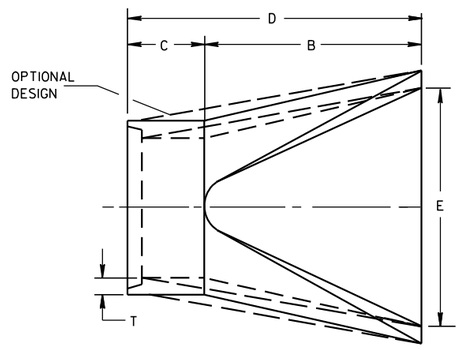


END VIEW

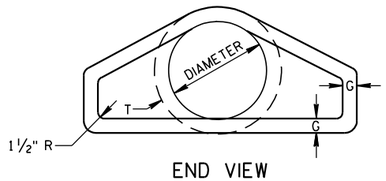


SIDE ELEVATION

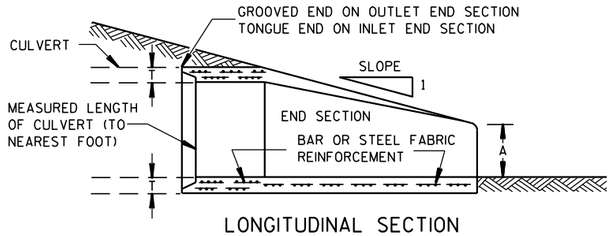
METAL ENDWALLS



PLAN

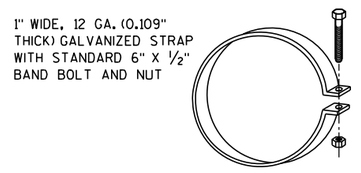


END VIEW



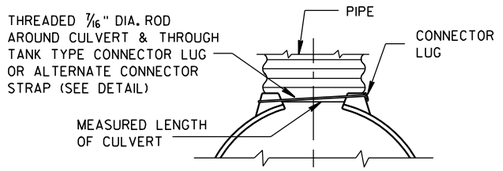
LONGITUDINAL SECTION

CONCRETE ENDWALLS

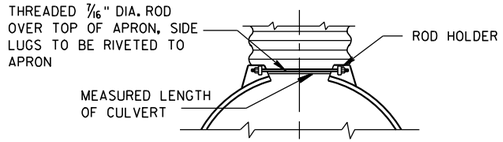


ALTERNATE FOR TYPE 1 CONNECTION

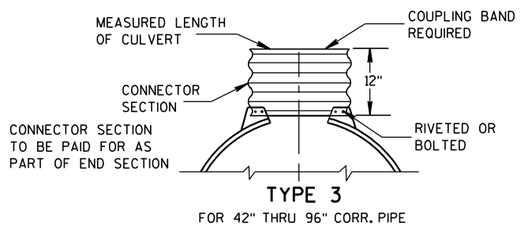
END SECTION CONNECTOR STRAP



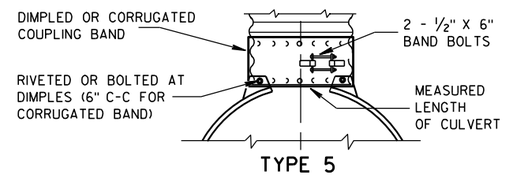
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

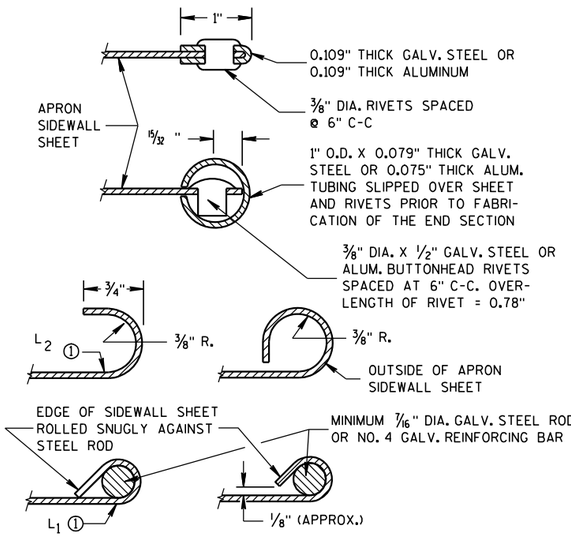
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

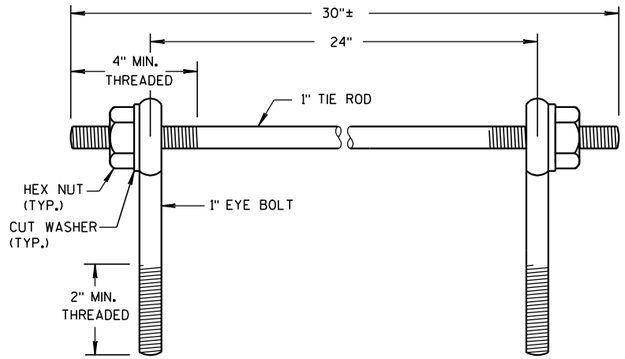
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

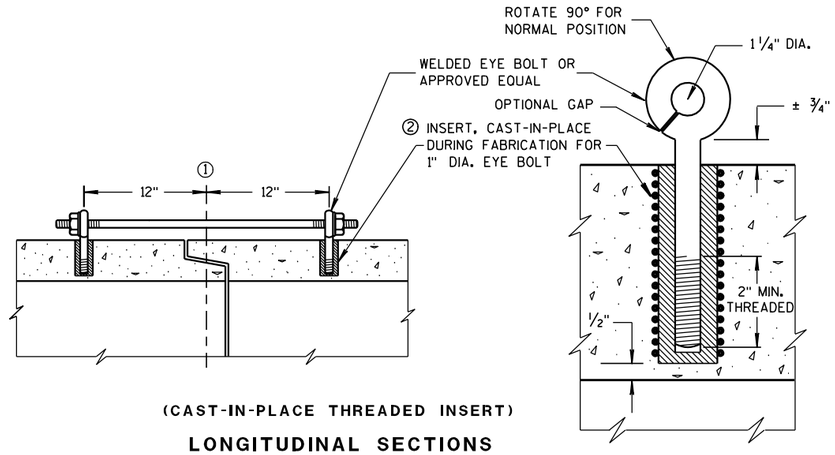
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

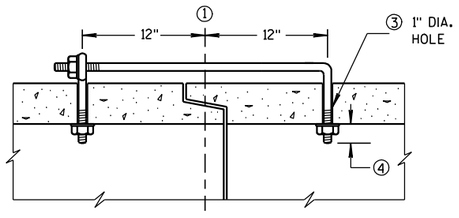
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

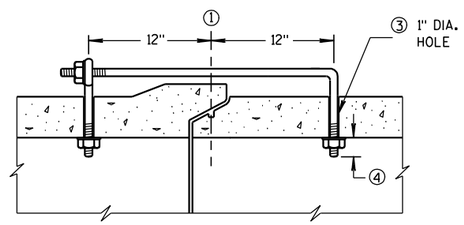
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

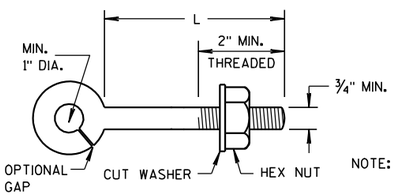


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

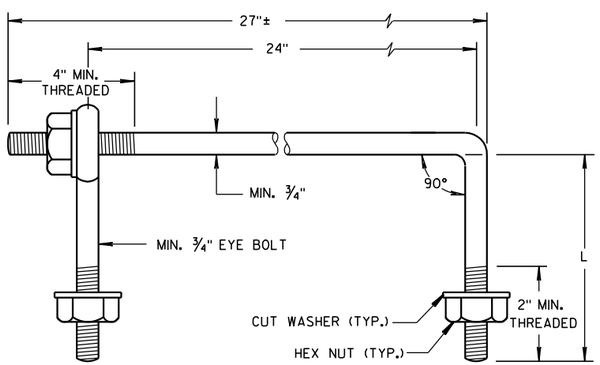
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

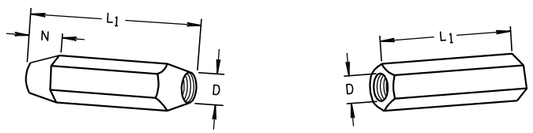
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

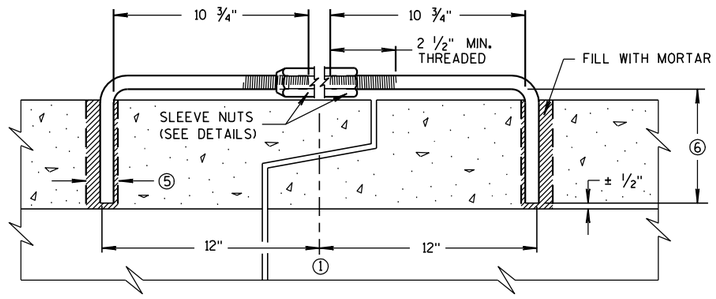
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

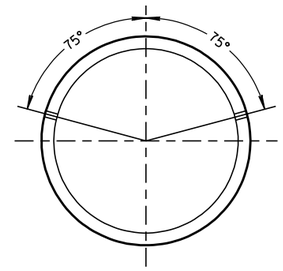
SLEEVE NUTS



LONGITUDINAL SECTION

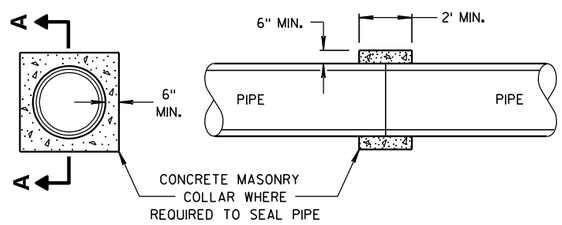
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

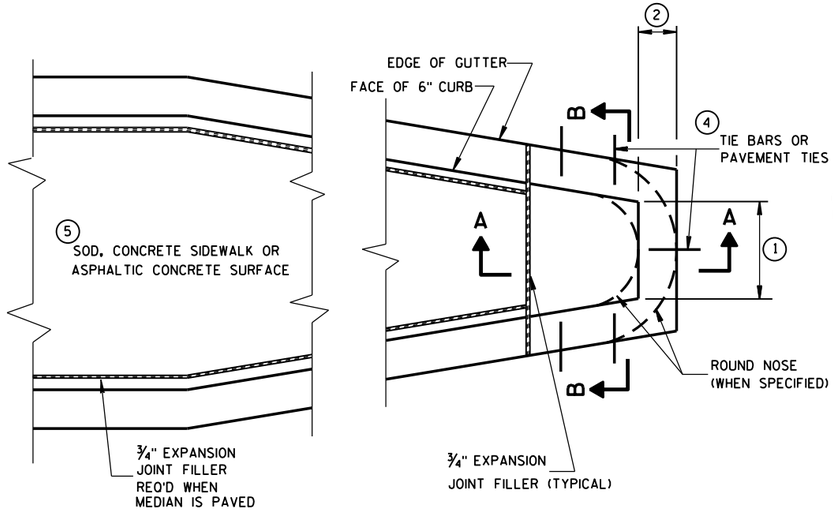
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
117
FHWA

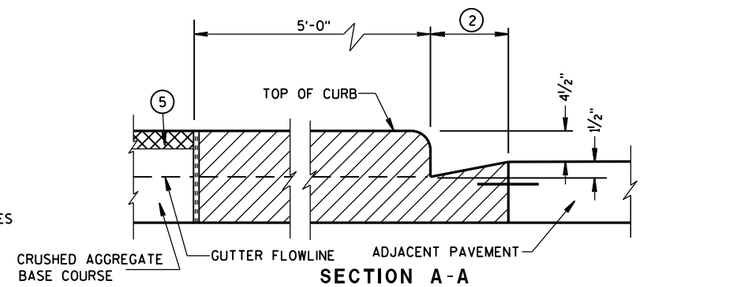
6

S.D.D. 8 F 4-7

6

S.D.D. 8 F 4-7





CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

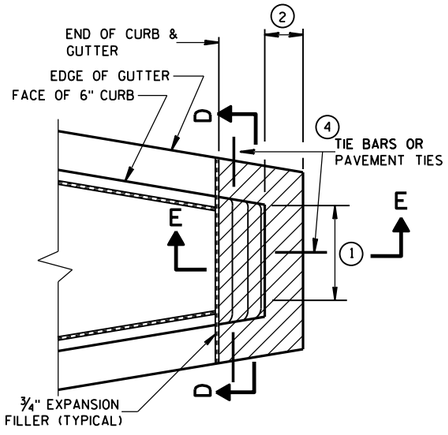
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

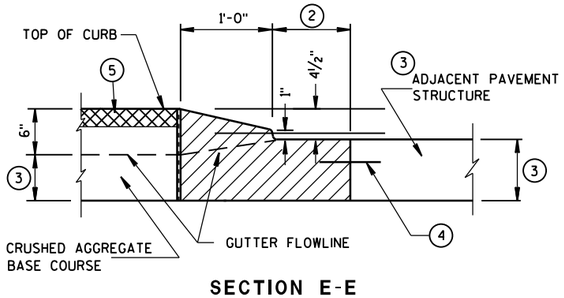
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

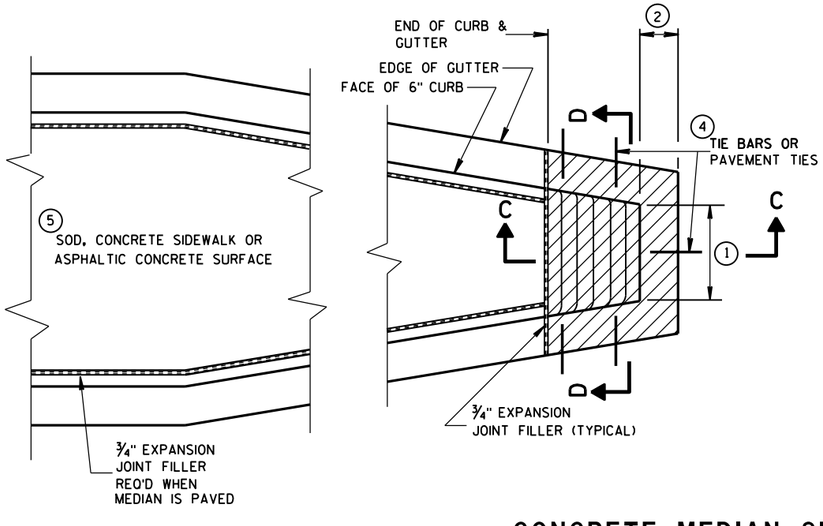
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

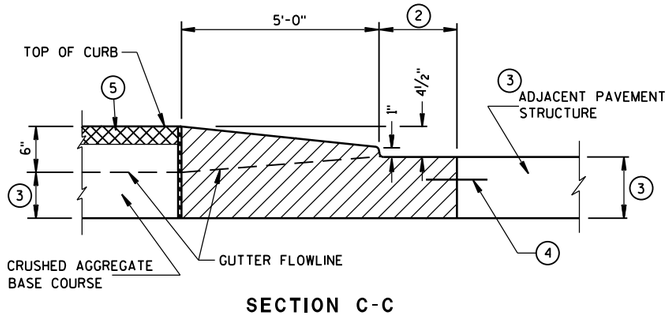




SECTION E-E

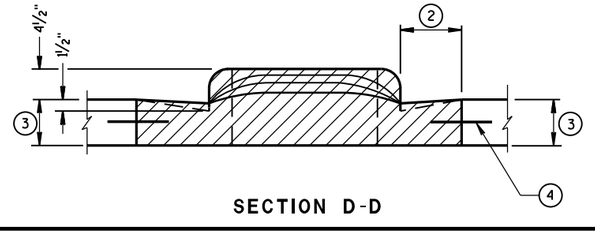
CONCRETE MEDIAN SLOPED NOSE TYPE 2





SECTION C-C

CONCRETE MEDIAN SLOPED NOSE TYPE 1



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

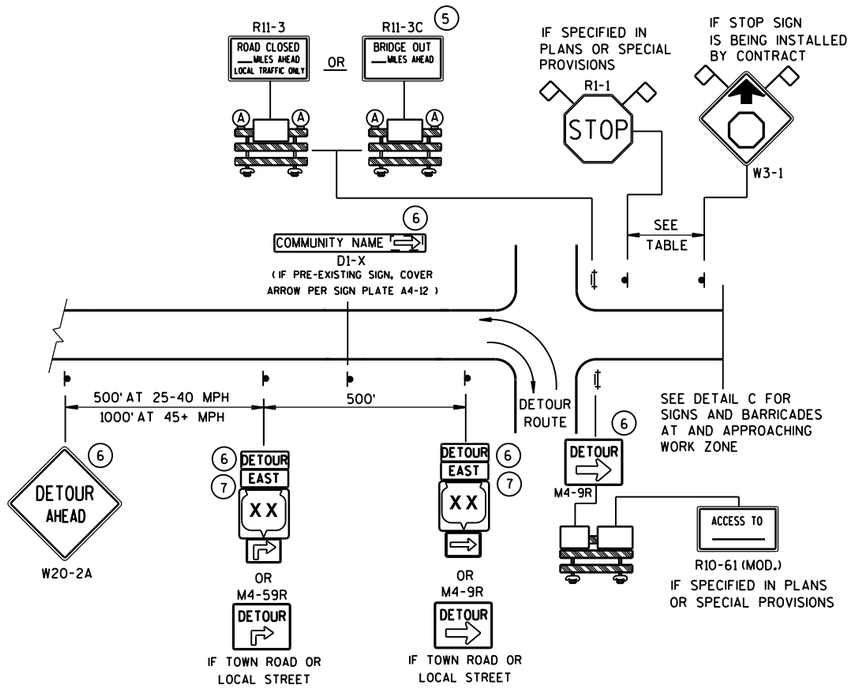
6/8/2006
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER

FHWA

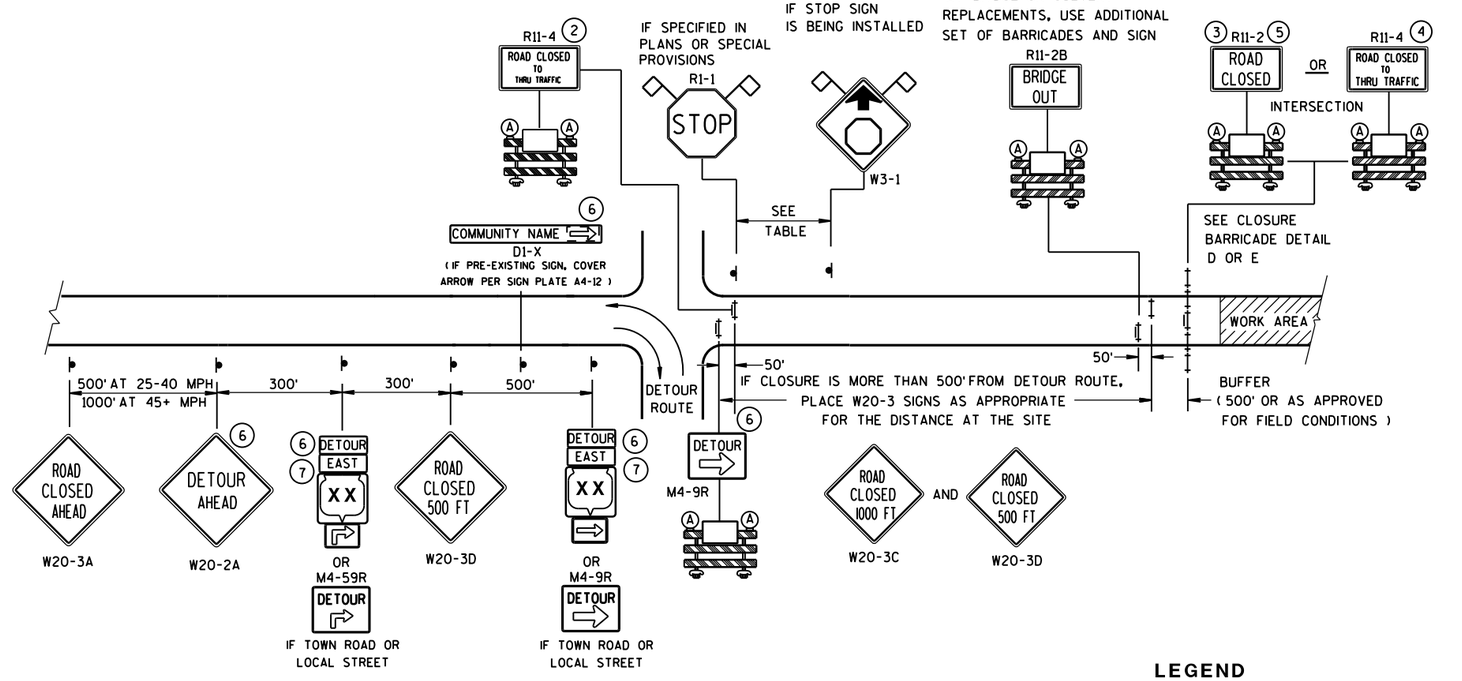
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S.D.D. 11 B 2-2



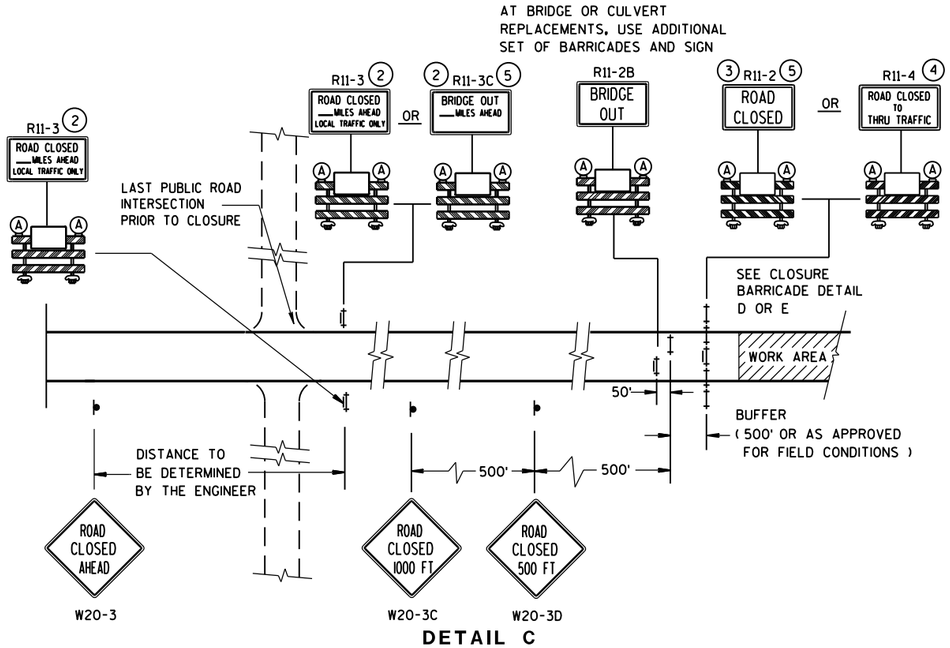
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "**b**"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

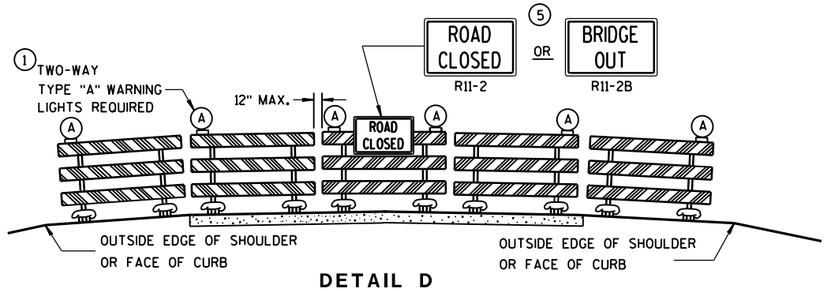
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

6

S.D.D. 15 C 2-6a

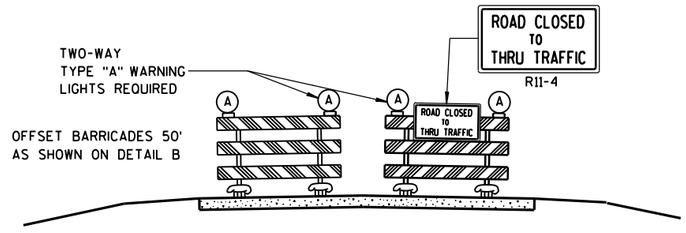
S.D.D. 15 C 2-6a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI — FIC

FHWA

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S.D.D. 15 C 2-6b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

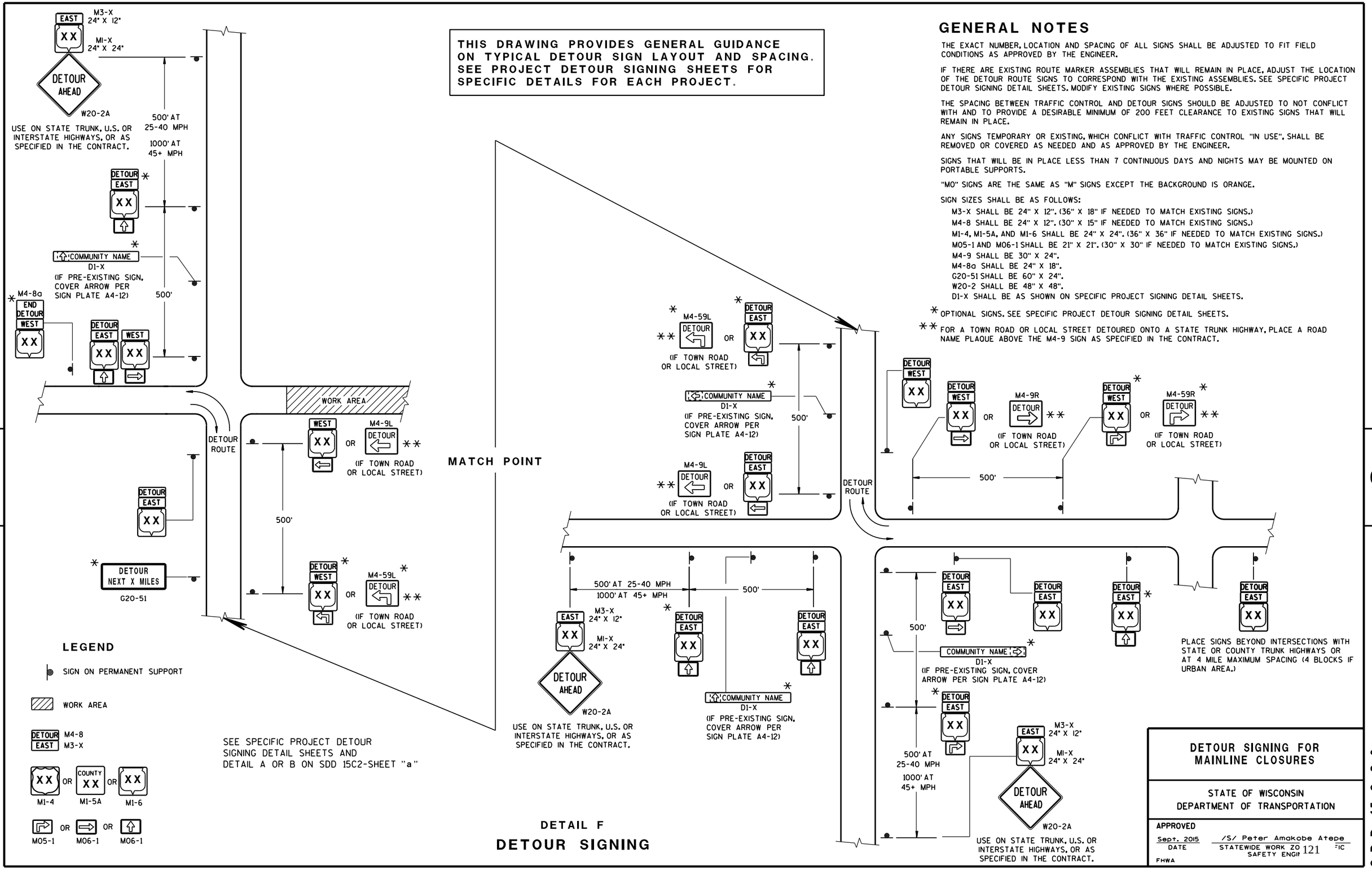
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR EAST — M4-8 / M3-X
- XX OR COUNTY XX OR XX — M1-4 / M1-5A / M1-6
- M05-1 OR M06-1 OR M06-1

SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD 15C2-SHEET "a"

DETAIL F

DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] FIC
SAFETY ENGI[illegible]

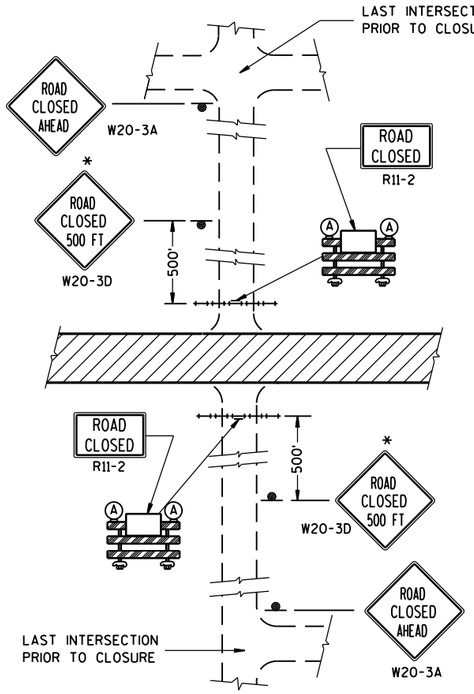
FHWA

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S.D.D. 15 C 2-6c

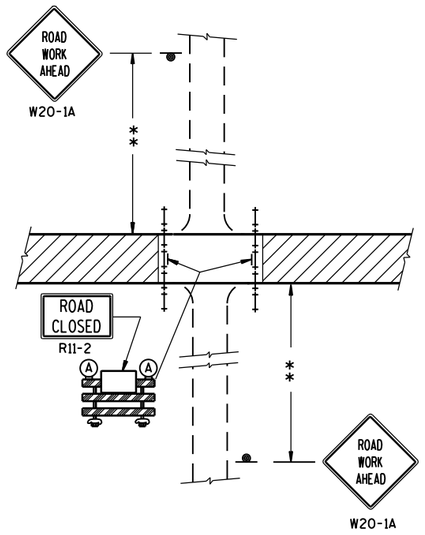
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S.D.D. 15 C 2-6c



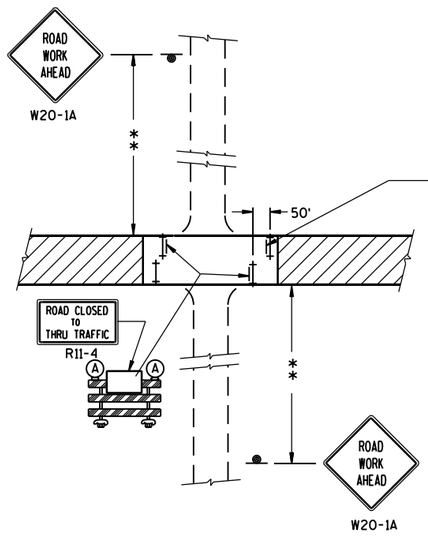
DETAIL 1

(NO ACCESS TO PROJECT)



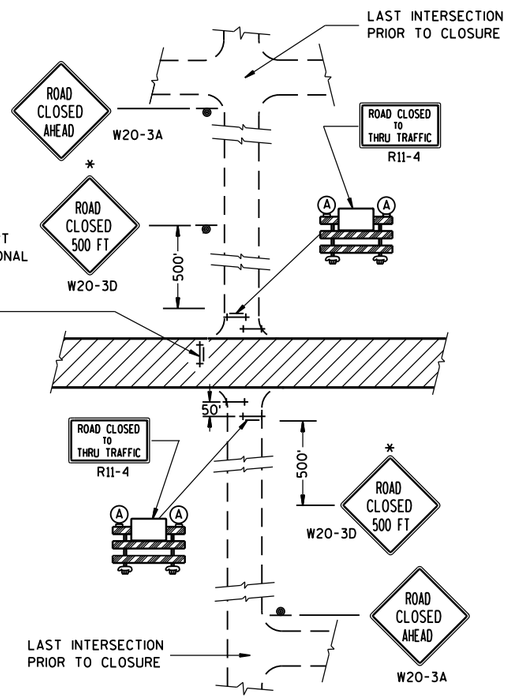
DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).



DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

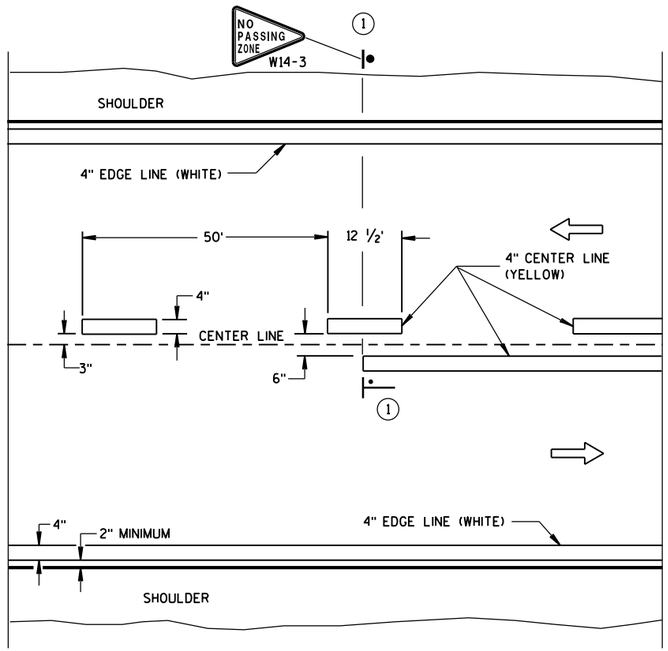
APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible]FIC SAFETY ENGI[illegible]
FHWA

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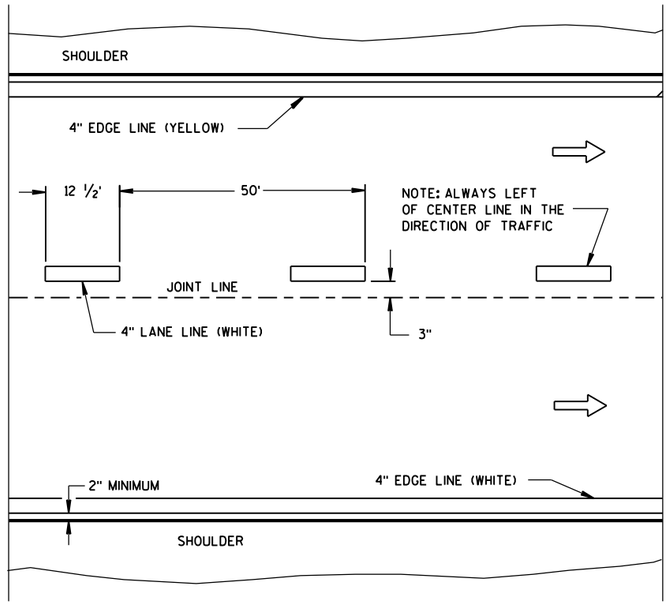
S.D.D. 15 C 3-3

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S.D.D. 15 C 3-3



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

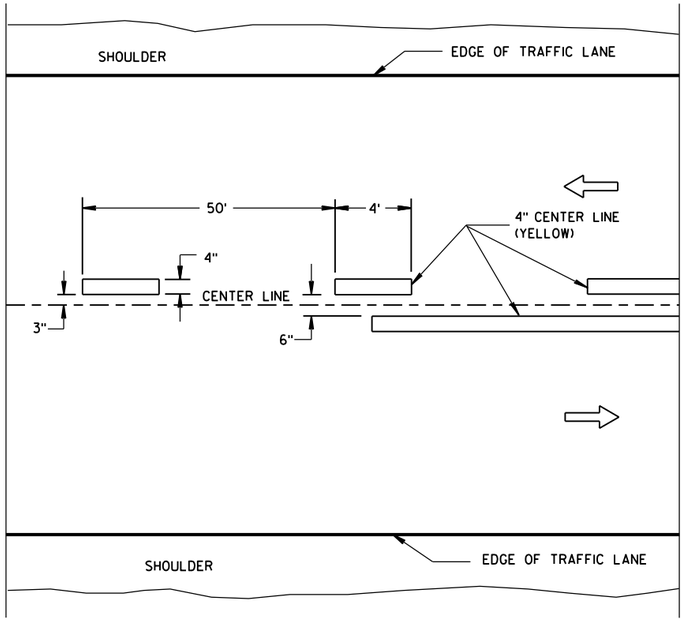
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

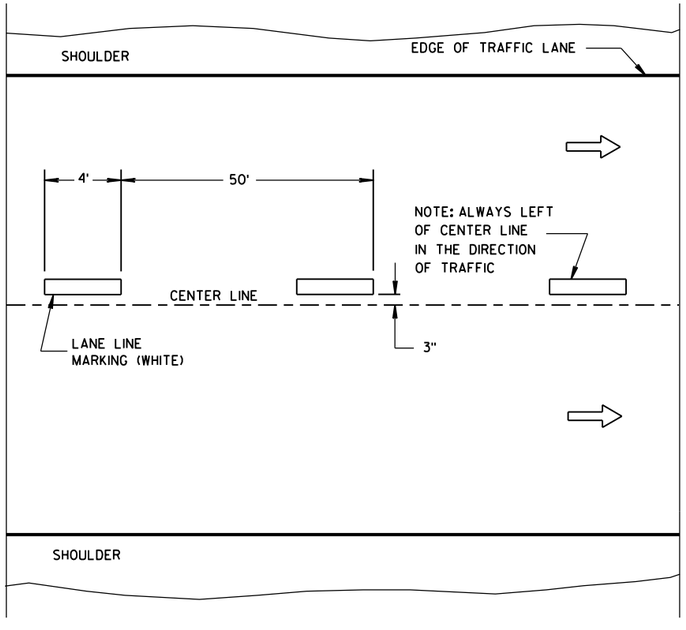
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



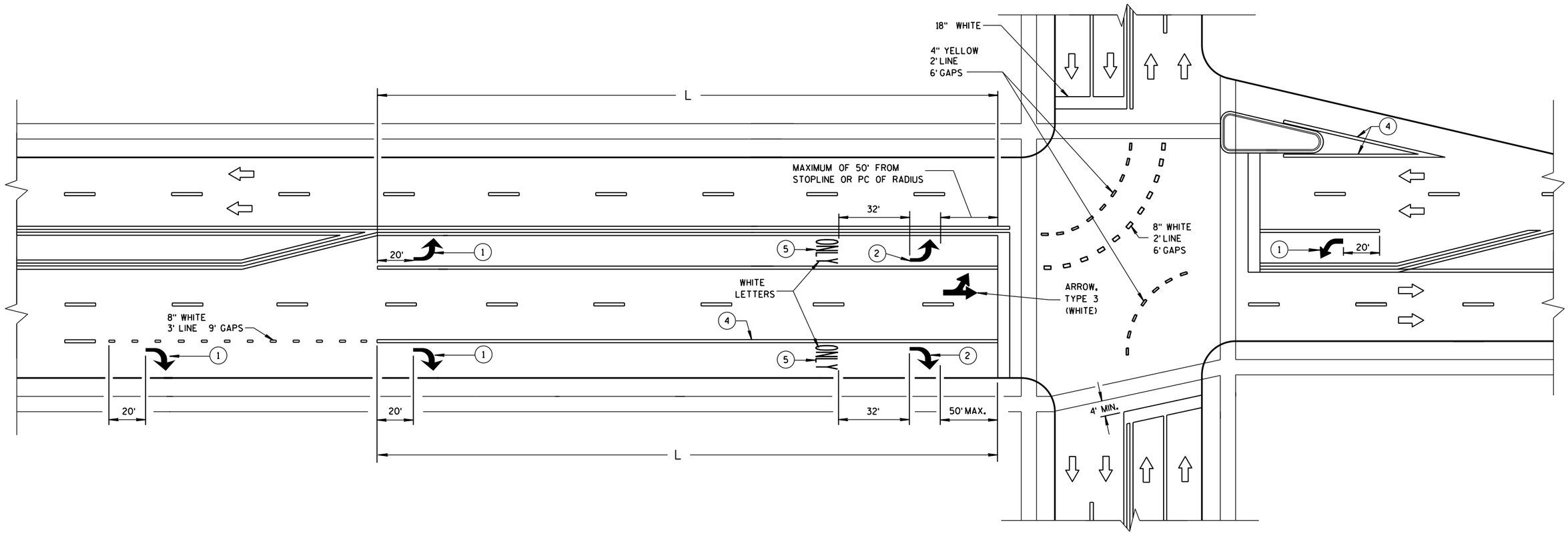
ONE WAY TRAFFIC

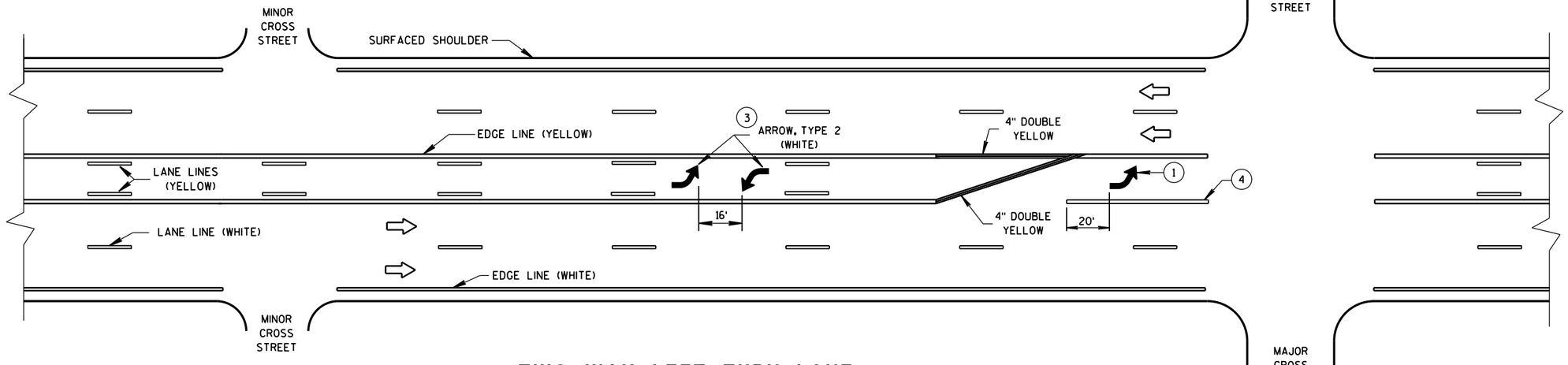
TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED June 2017 (DATE) /S/ Matthew R. Rauch STATE SIGNING AND MAR[illegible]INEER FHWA

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S.D.D. 15 C 8-18a





GENERAL NOTES

(1) REQUIRED ARROW, TYPE 2 (WHITE).

(2) REQUIRED ARROW, TYPE 2 (WHITE) WHEN L IS GREATER THAN 78 FEET AND LESS THAN OR EQUAL TO 166 FEET.

(3) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

(4) 8" WHITE

(5) REQUIRED WORD ONLY WHEN L IS GREATER THAN 166 FEET.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL

L = LENGTH OF TURN BAY

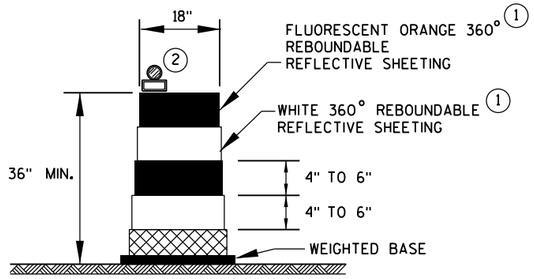
TWO WAY LEFT TURN LANE

PAVEMENT MARKING
(TURN LANES)

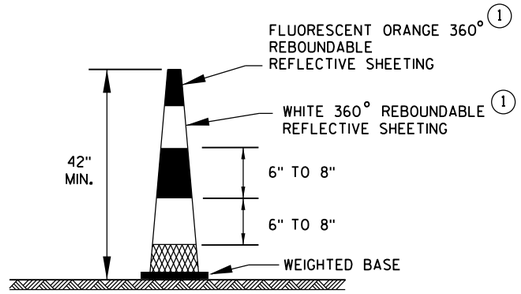
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 C 8-18b



DRUM

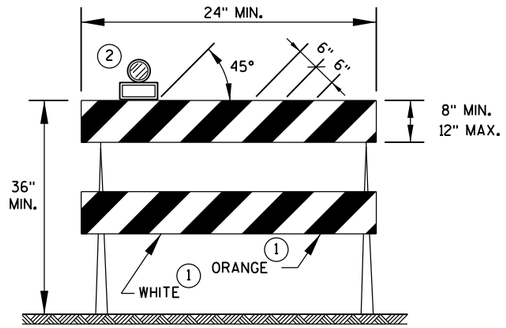


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

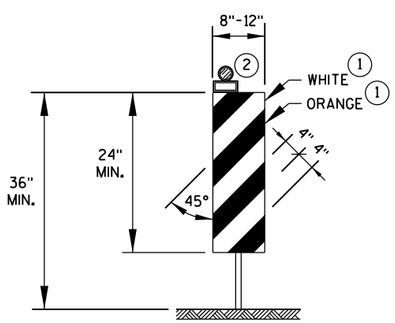
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



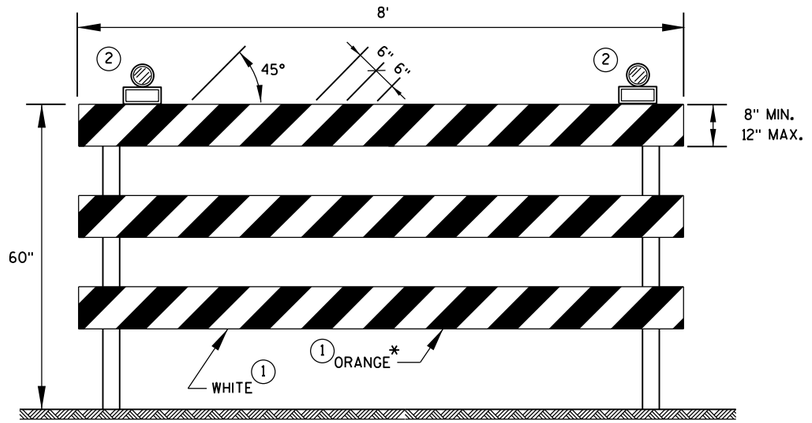
TYPE 2 BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE 3 BARRICADE

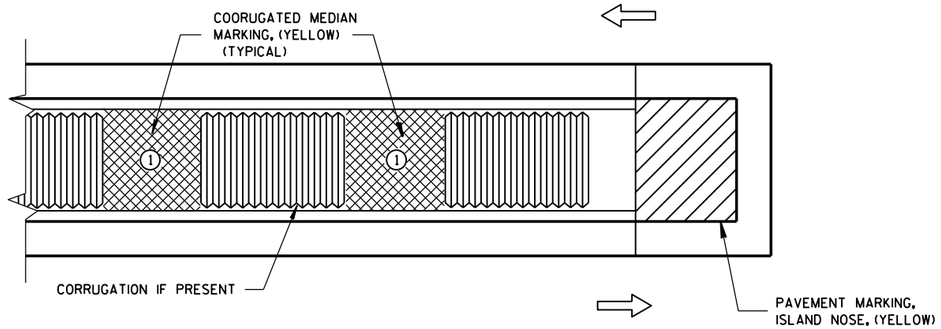
IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.

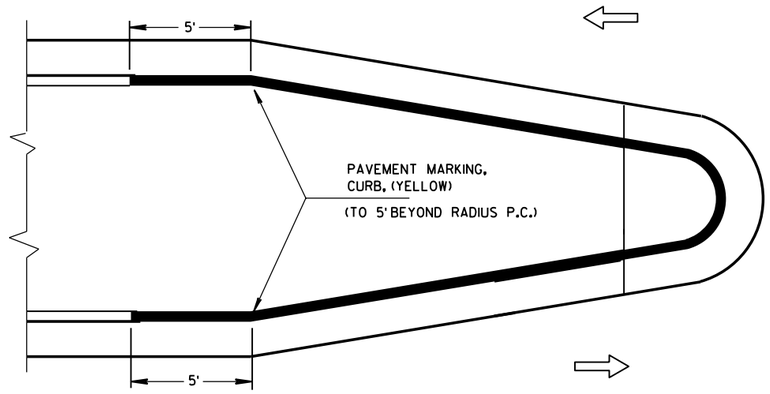
CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
June 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENG
FHWA	

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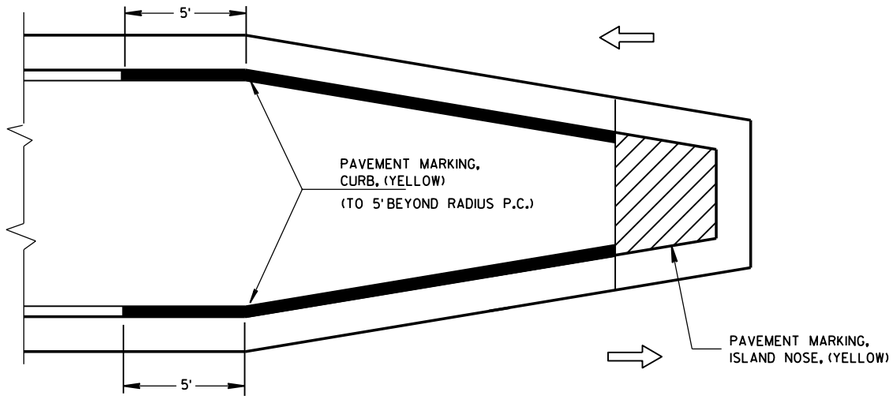
S.D.D. 15 C 11-7b



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

(1) WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

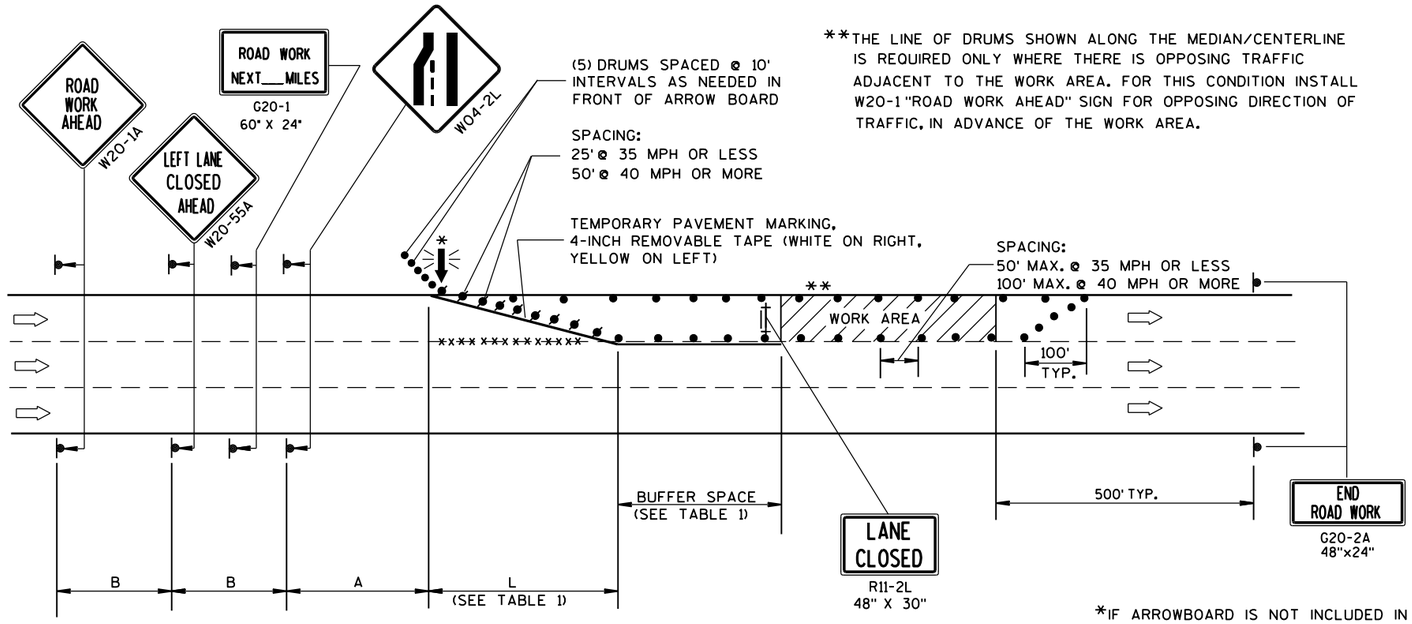
APPROVED
June 2017
DATE
/S/ Matthew Rauch
STATE SIGNING AND MARK ENGINEER
FHWA

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S.D.D. 15 C 27-2b

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S.D.D. 15 C 27-2b



**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF TRAFFIC, IN ADVANCE OF THE WORK AREA.

B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

*IF ARROWBOARD IS NOT INCLUDED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE A TYPE III BARRICADE WITH W01-6 SIGN IN THE LANE CLOSURE TAPER.

W01-6
48"x24"

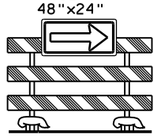


TABLE 1
TAPER AND BUFFER SPACE FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

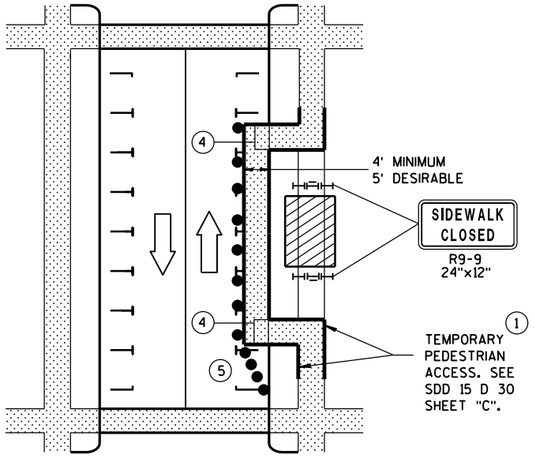
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

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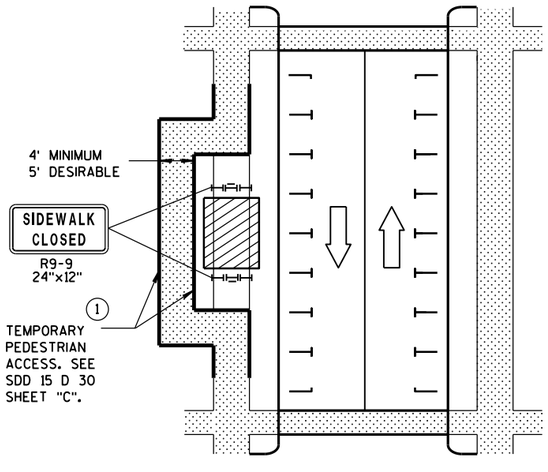
S.D.D. 15 D 20-4

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

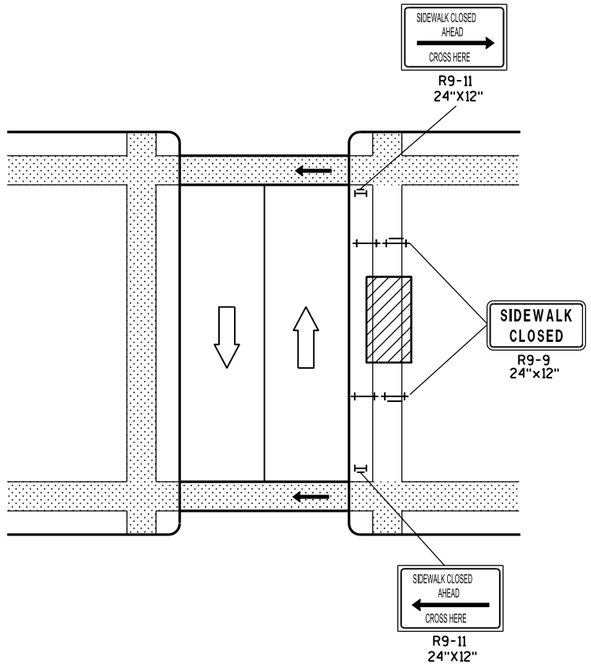


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

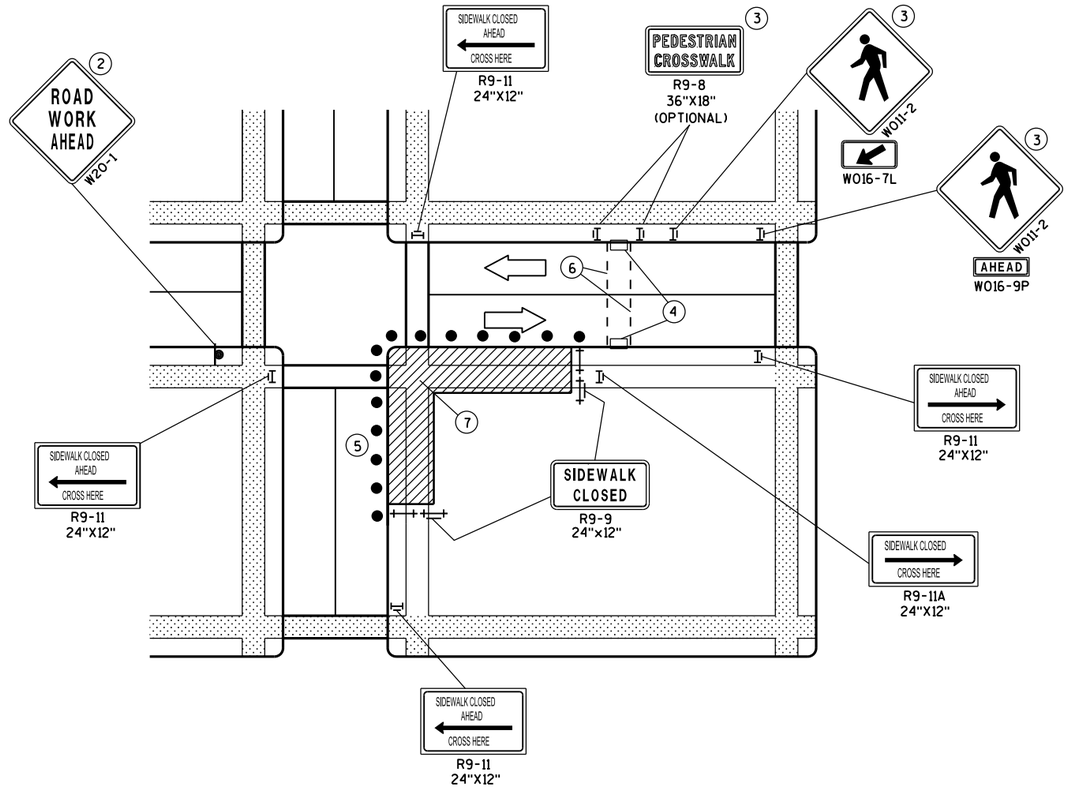
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTTIME CLOSURE USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

(1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE.

(2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

(3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND W011-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.

(4) TEMPORARY CURB RAMPS. SEE SDD 15 D 30 SHEET "B".

(5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.

(6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

(7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

- SIGN ON PERMANENT SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- DIRECTION OF TRAFFIC
- TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

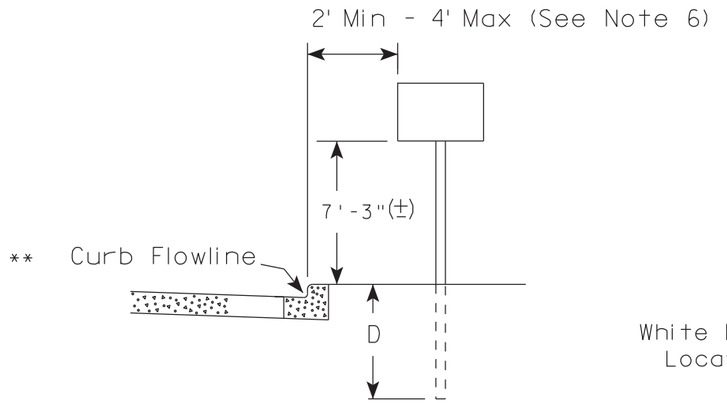
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S.D.D. 15 D 30-3a

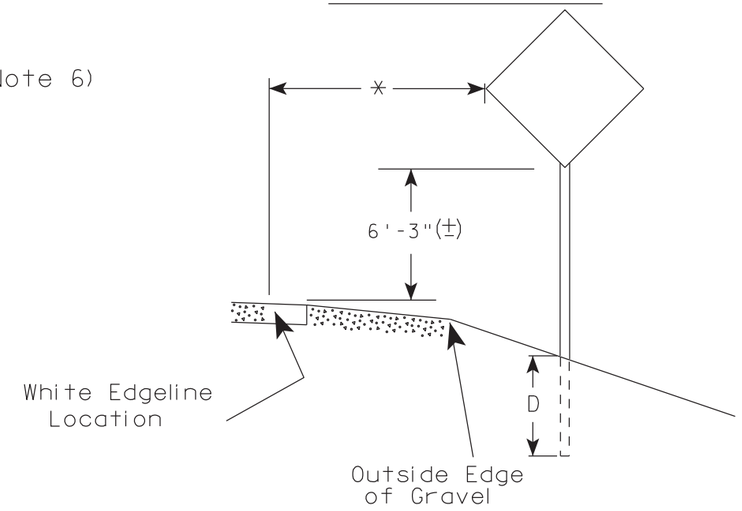
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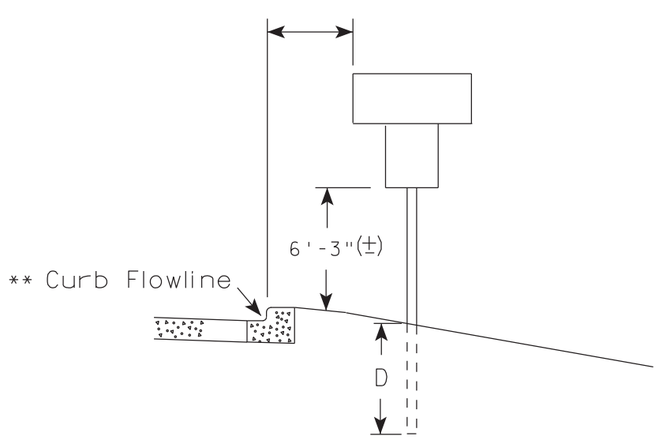
S.D.D. 15 D 30-3a

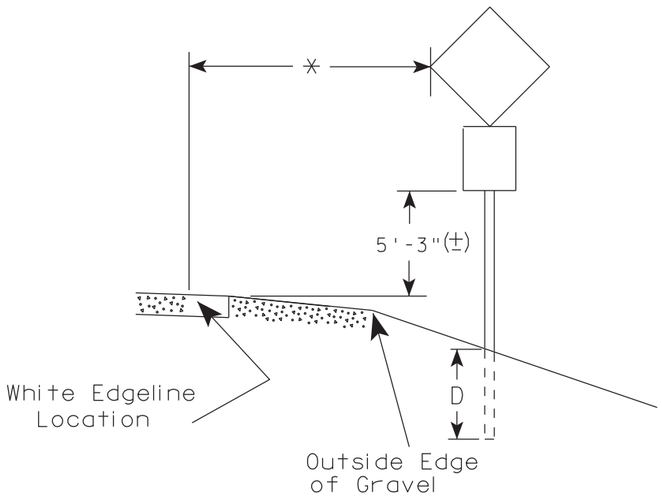
URBAN AREA



RURAL AREA (See Note 2)







GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

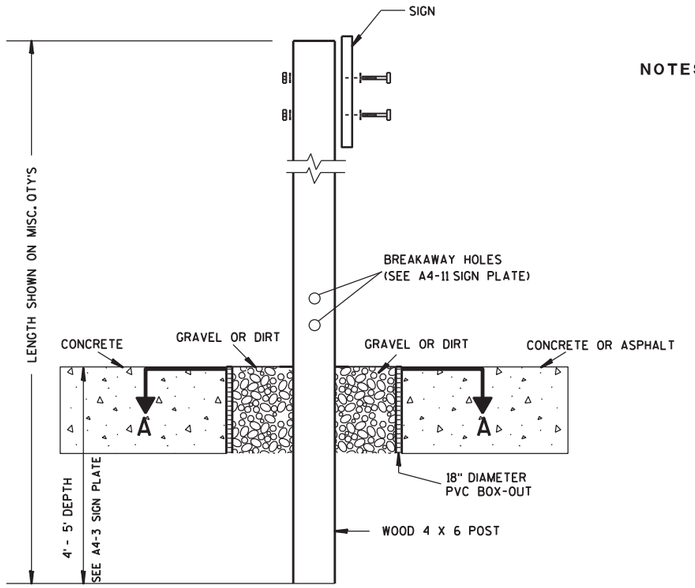
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

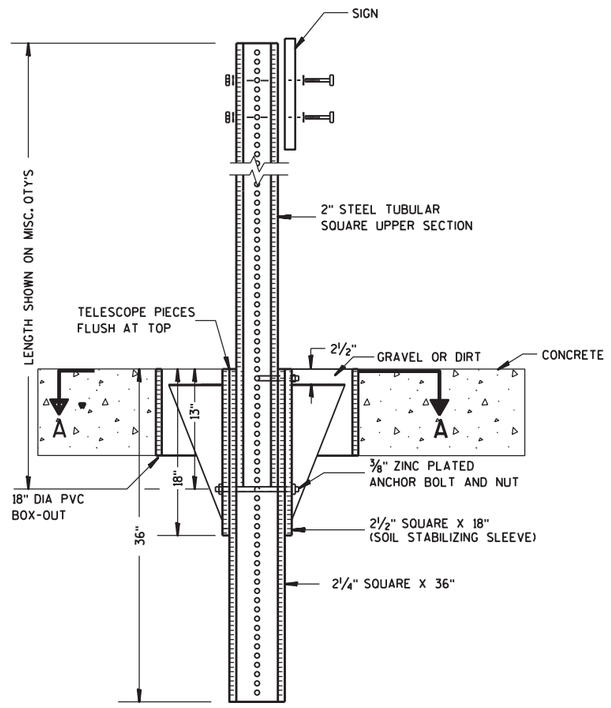
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

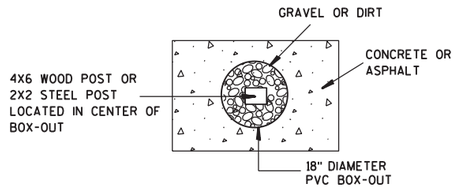
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

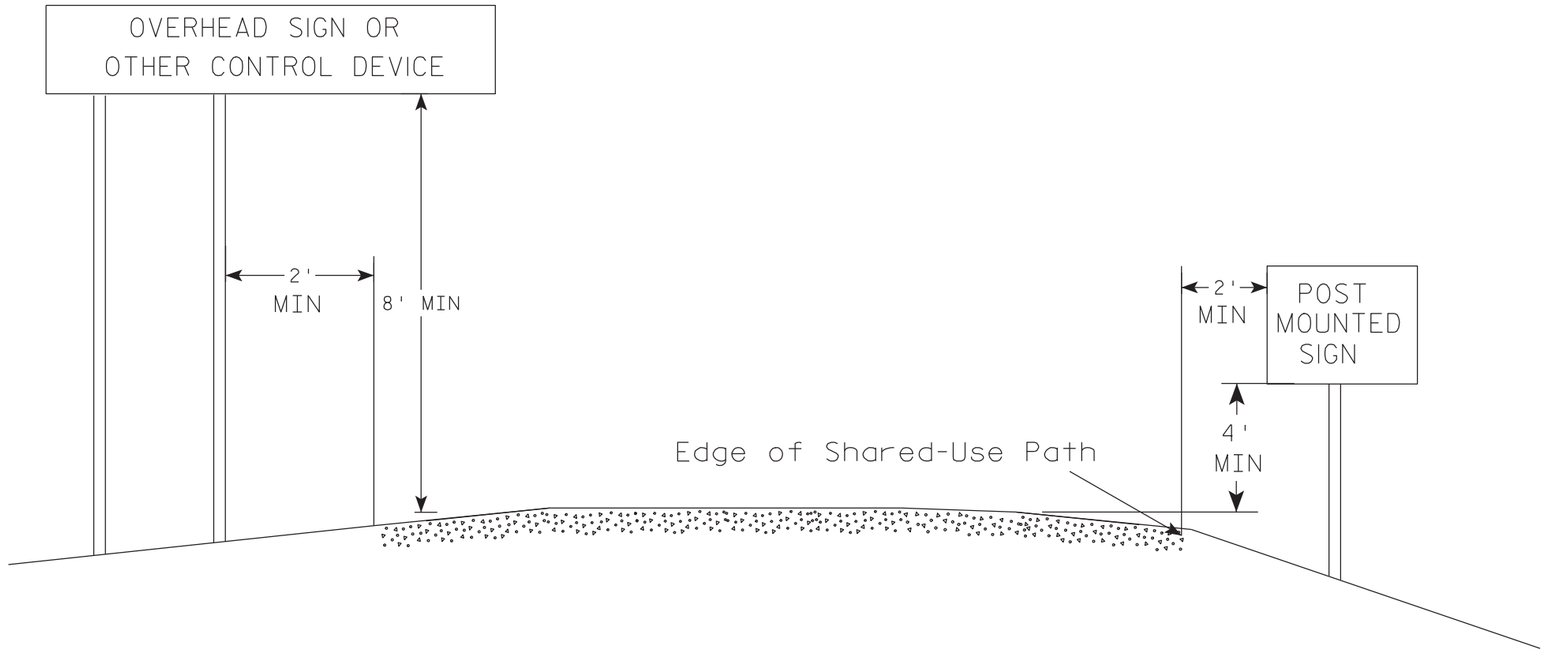
DATE 1/27/14 PLATE NO. A4-3B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

GENERAL NOTES

1. Signs wider than 4 feet or larger than 20 sq. ft. shall be mounted on multiple posts. Refer to plate A4-4.
2. Offset distance shall be consistent with existing signs or consistent throughout length of project.



POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON MULTI USE PATHS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

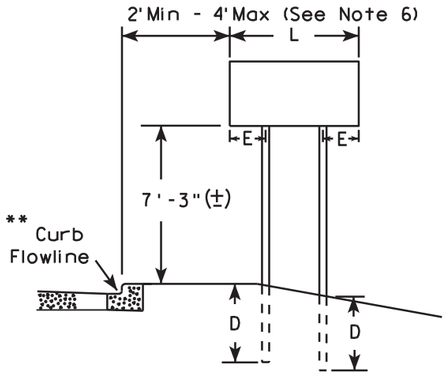
DATE 3/5/2012 PLATE NO. A4-3S.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 131	E

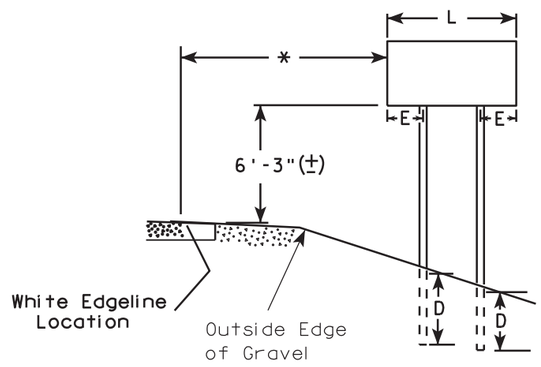
FILE NAME : c:\CAEFiles\Projects\tr_stdplate\A43S.DGN PLOT DATE : 05-MAR-2012 13:42 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 101.303739:1.000000

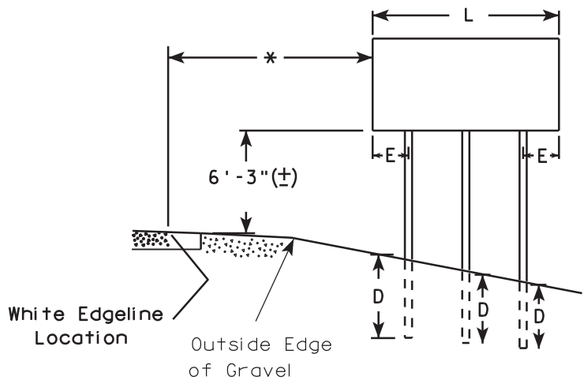
WISDOT/CADDS SHEET 42

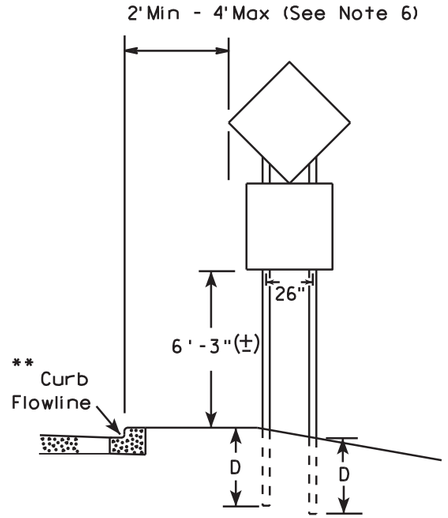
URBAN AREA



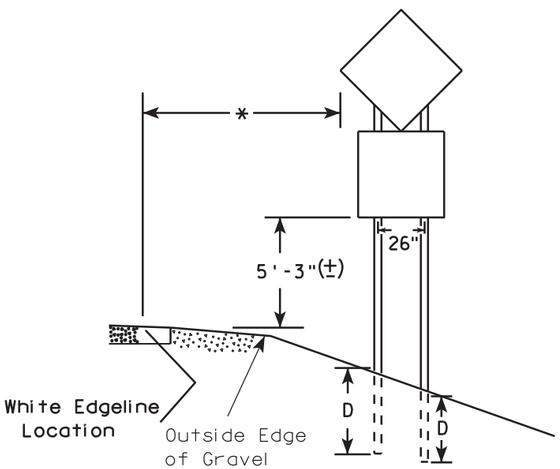
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

***

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

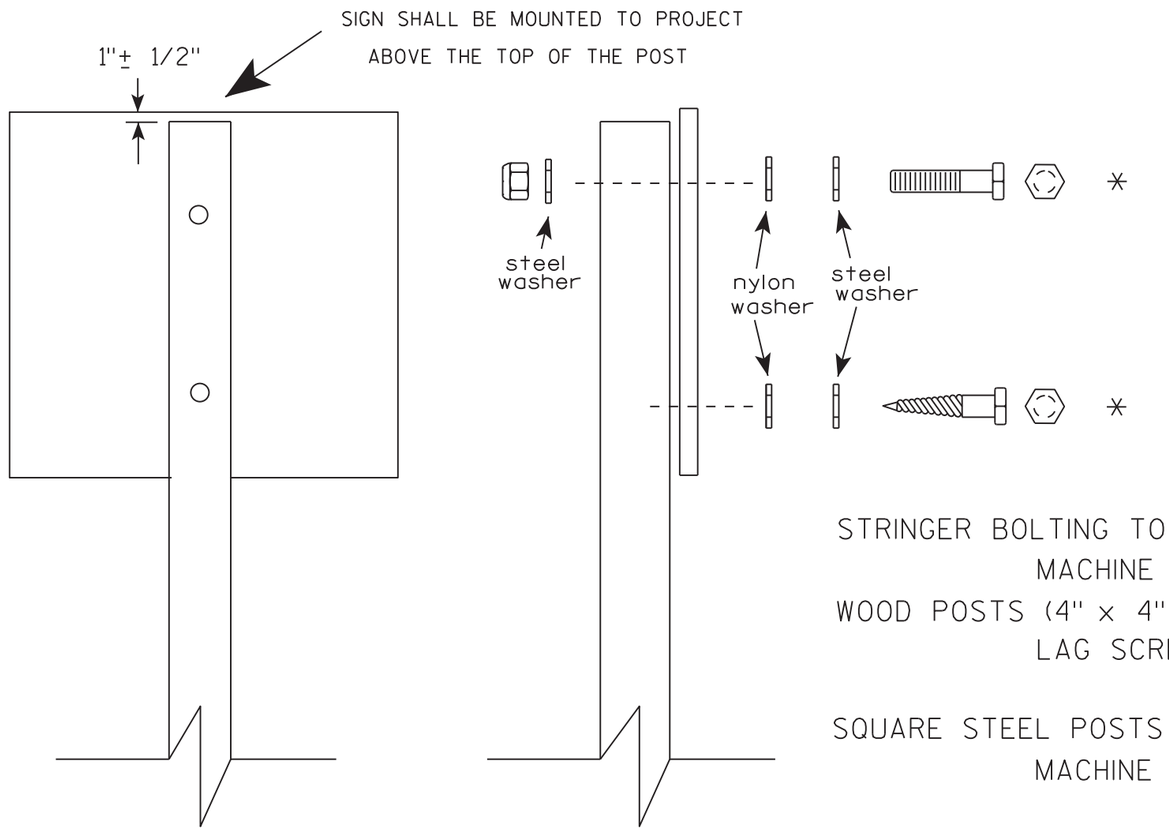
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-4 14
132

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

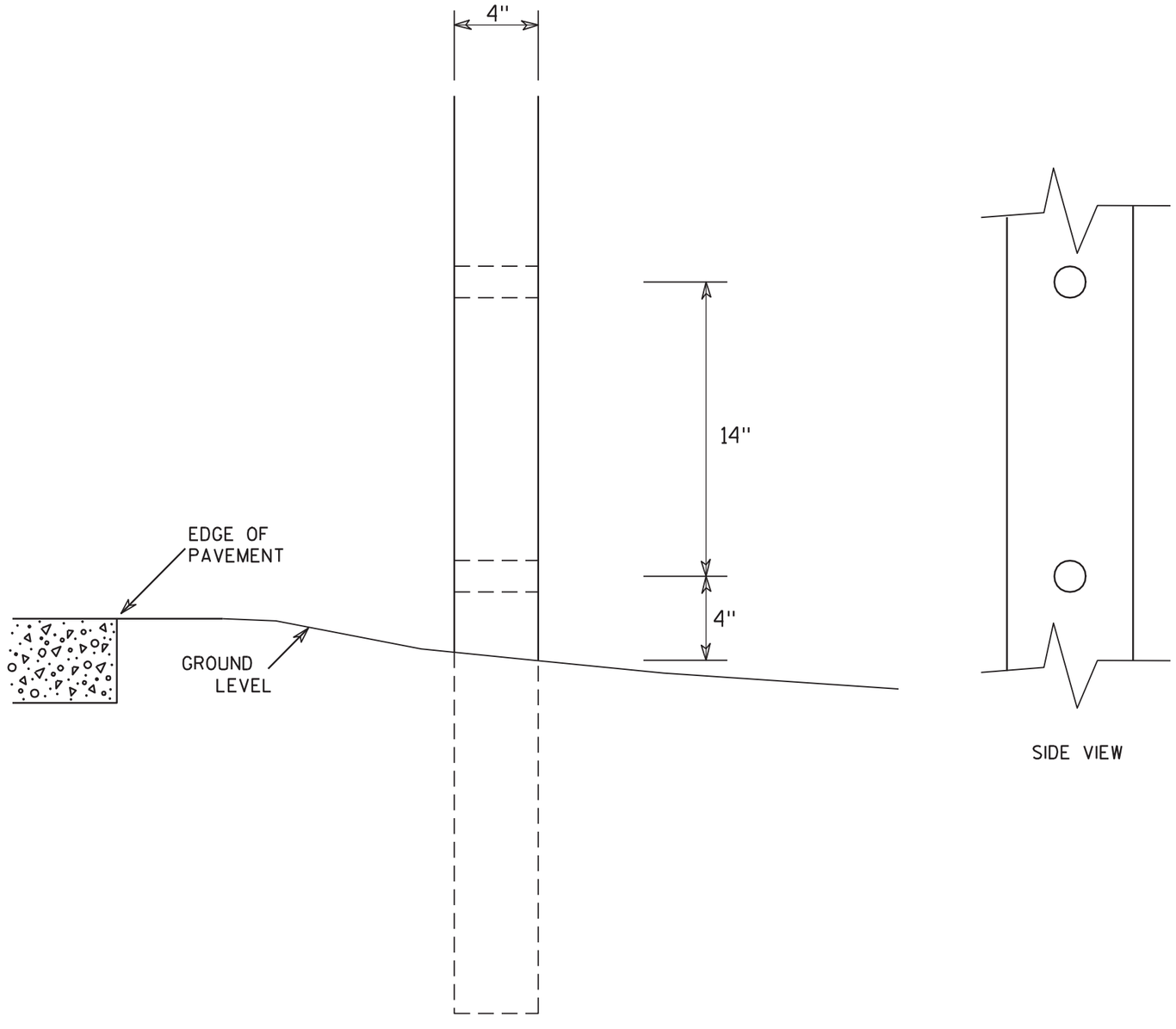
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/11/16 PLATE NO. A4-8.8

7

PROJECT NO: SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

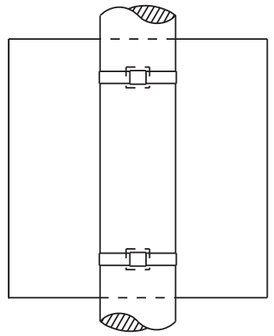
APPROVED Chester J Spang
for State Traffic Engineer

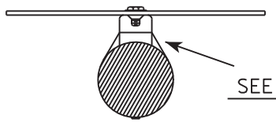
DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 134	E

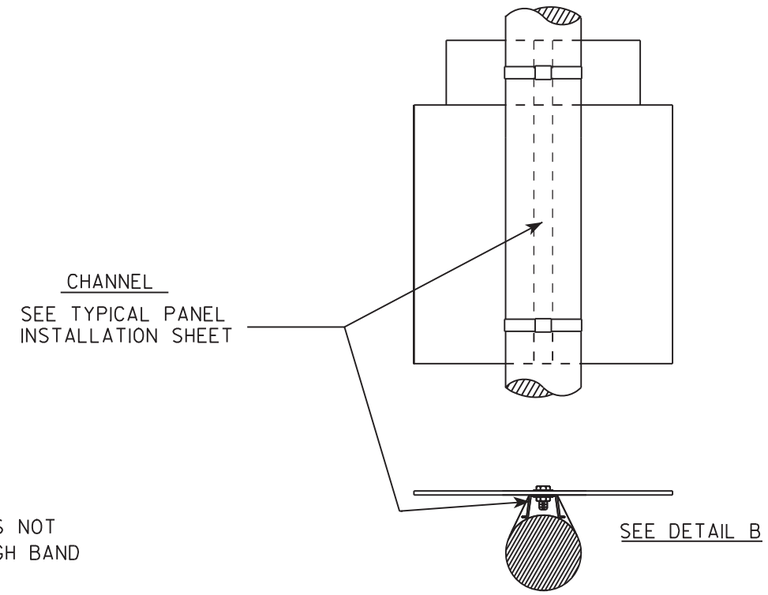
BANDING

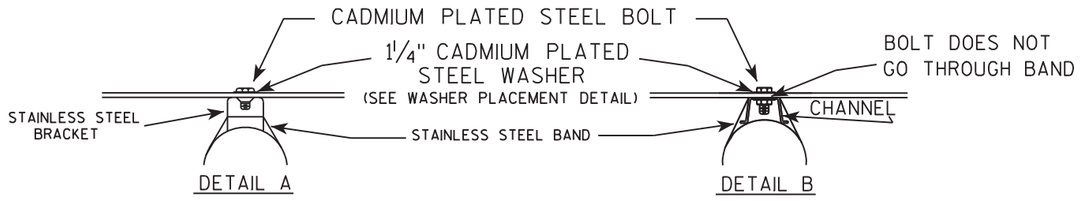
SINGLE SIGN



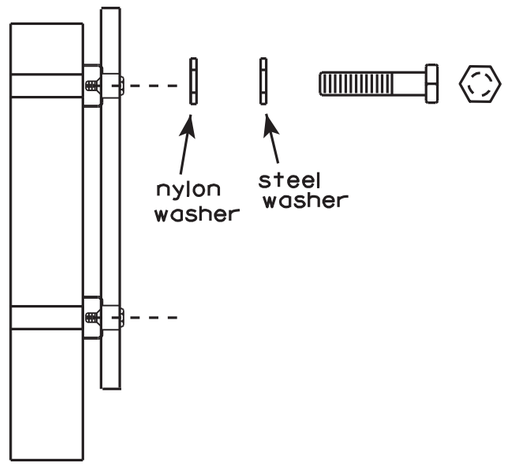


"J" ASSEMBLY





WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.

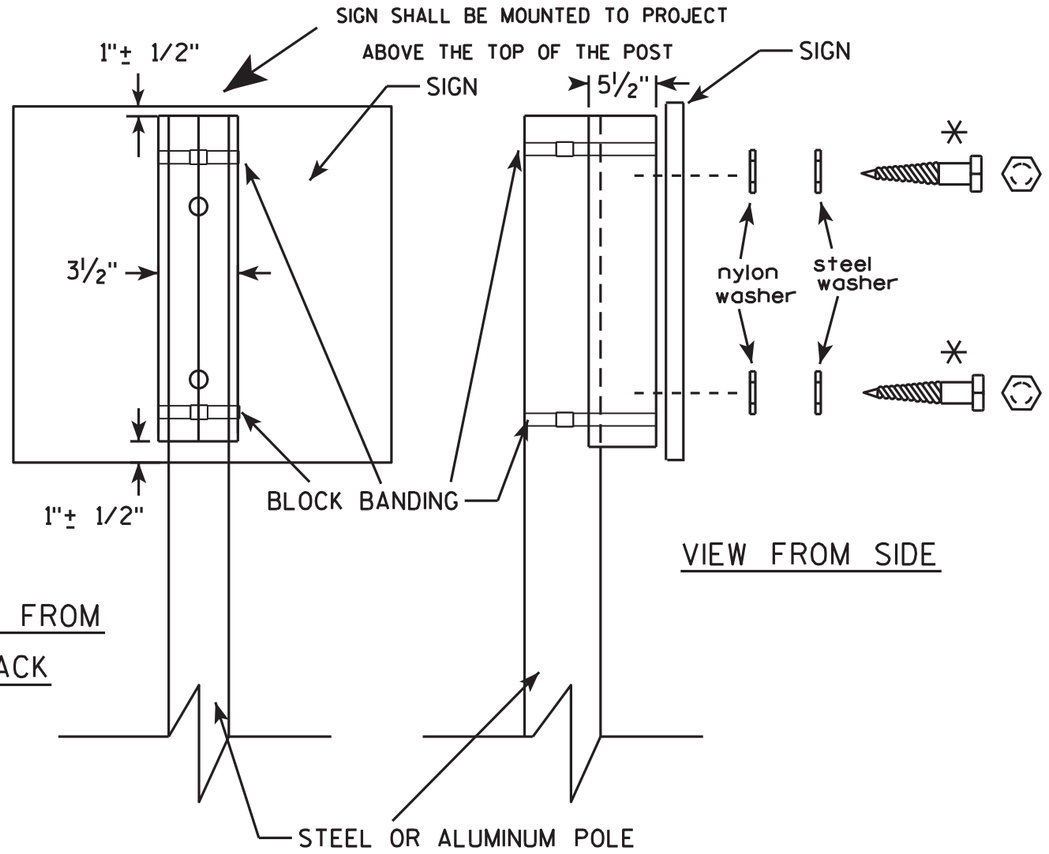
STANDARD SIGN
SIGN BANDING DETAILS

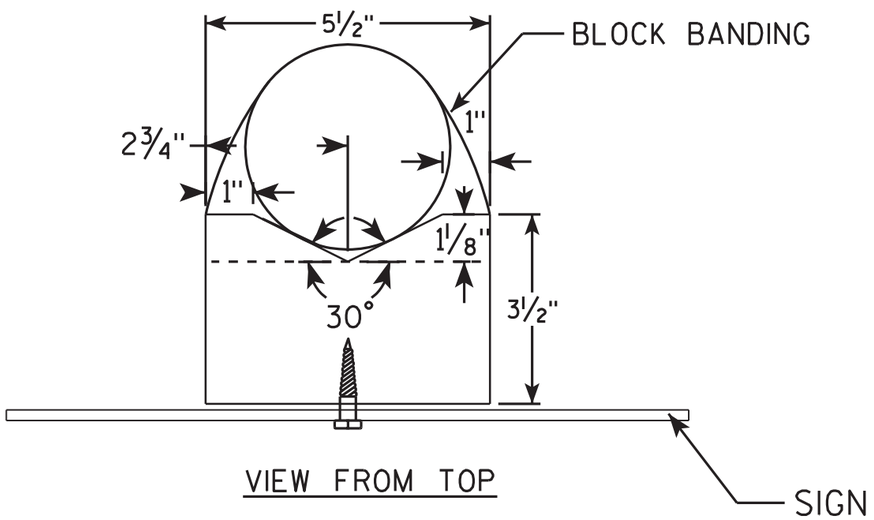
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 135	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

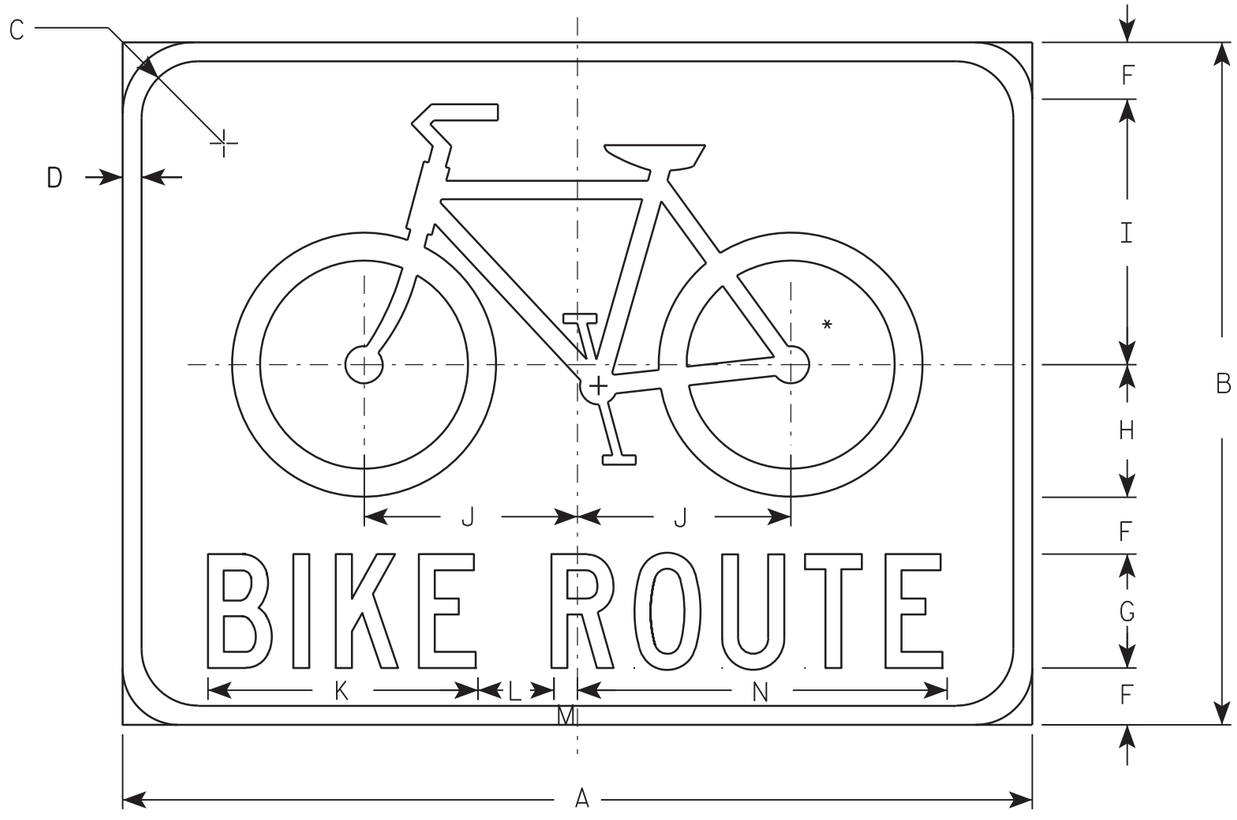
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 136 E



D11-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

* See W11-1 for symbol design

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 450 mm
3	750 mm X 600 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	18	1 1/2	1/2		1 1/2	3	3 1/2	7	5 5/8	7 1/8	2	5/8	9 3/4													3.0	0.27
3	30	24	1 1/4	5/8		2	4	4 3/4	9 1/4	7 1/2	9 1/2	2 5/8	7/8	13													5.0	0.45
4																												
5																												

STANDARD SIGN
D11-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/04 PLATE NO. D11-1.1

PROJECT NO:

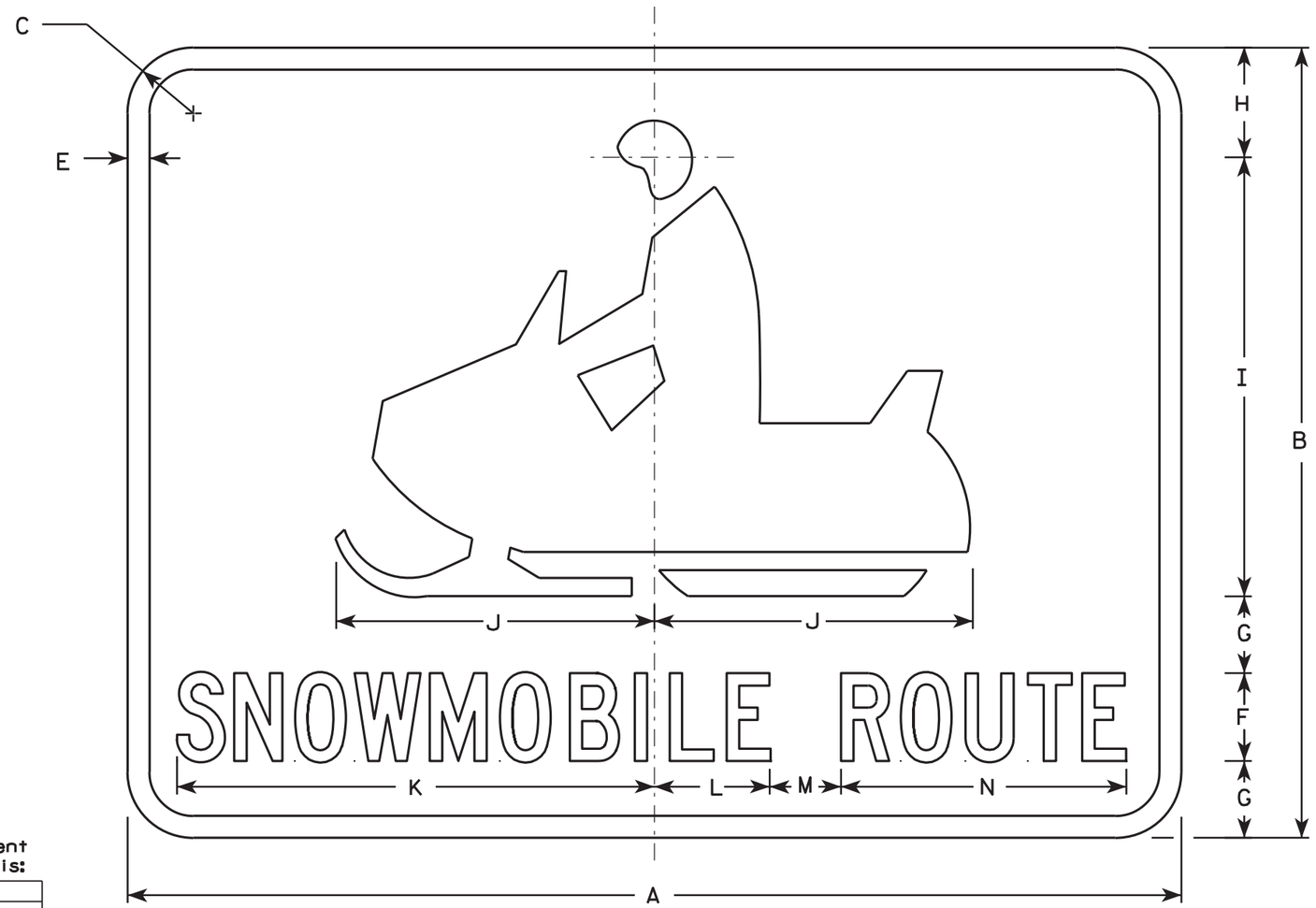
SHEET NO: 137 E

FILE NAME : C:\Users\Projects\tr_stdplate\D111.DGN PLOT DATE : 17-MAR-2005 10:38 PLOT BY : DOTDZK

WISDOT/CADDS SHEET 42

7

7



D11-6

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White - Type H Reflective
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 450 mm
3	
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	18	1 1/2		1/2	2	1 3/4	2 1/2	10	7 1/4	10 7/8	2 5/8	1 5/8	6 1/2													3.0	0.27
3																												
4																												
5																												

STANDARD SIGN
D11-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spry for State Traffic Engineer

DATE 1/16/02 PLATE NO. D11-6.6

PROJECT NO:

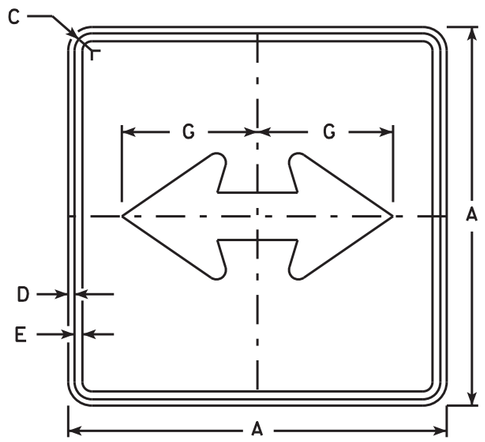
SHEET NO: 138 E

FILE NAME : C:\Users\Projects\tr_stdplate\D116.DGN PLOT DATE : 11-OCT-2005 14:57 PLOT BY : DOTSJA

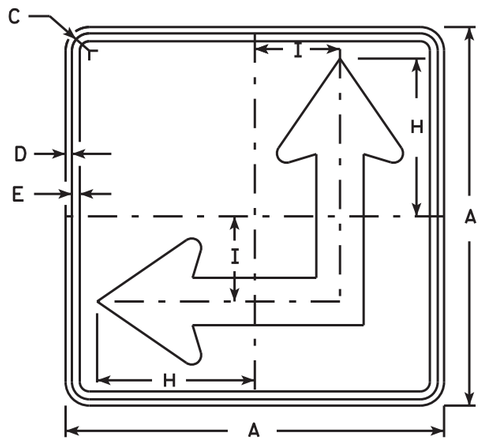
WISDOT/CADDS SHEET 42

7

7



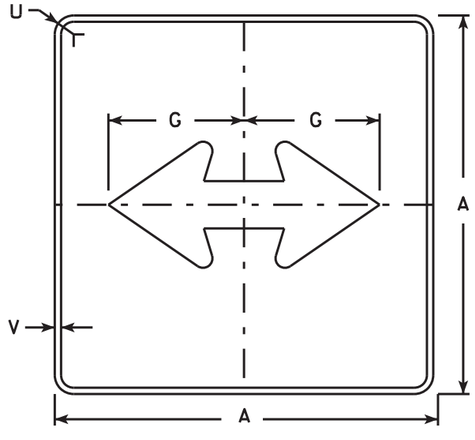
M6-4
MM6-4
MO6-4
MP6-4



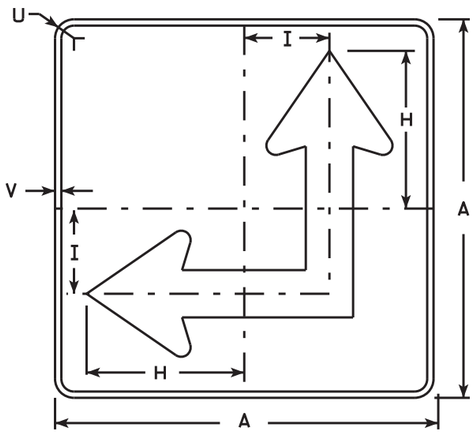
M6-6
MM6-6
MO6-6
MP6-6

NOTES

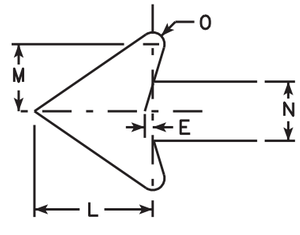
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

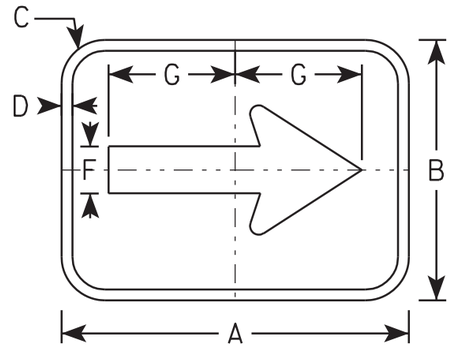
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

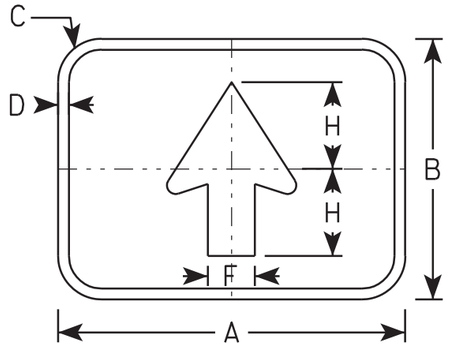
DATE 10/15/15 PLATE NO. M6-4.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 139 E

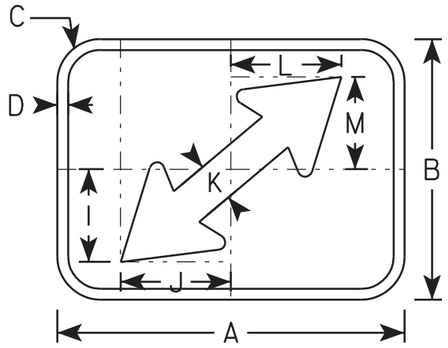
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 15-OCT-2015 13:20 PLOT BY : ss...plotuser...ss PLOT NAME : PLOT SCALE : 18.607113:1.000000 WISDOT/CADDS SHEET 42



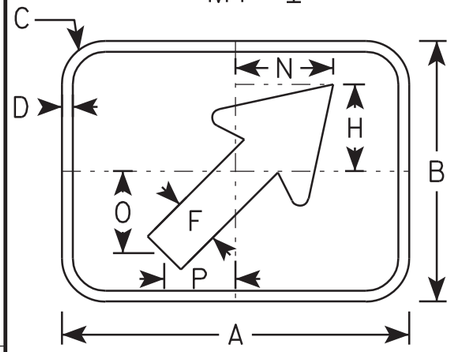
M7-1



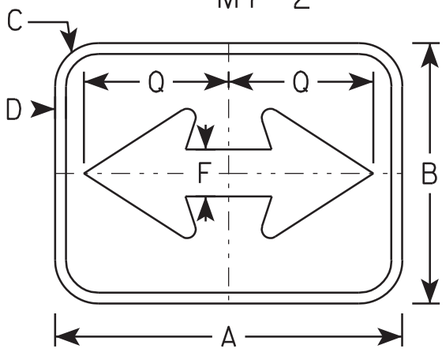
M7-2



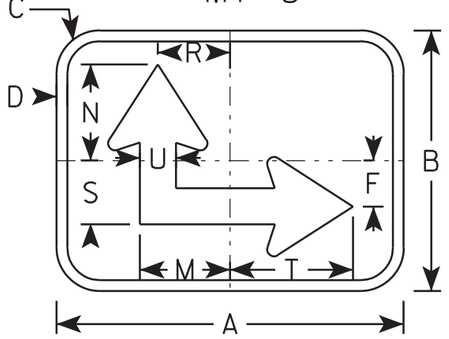
M7-3



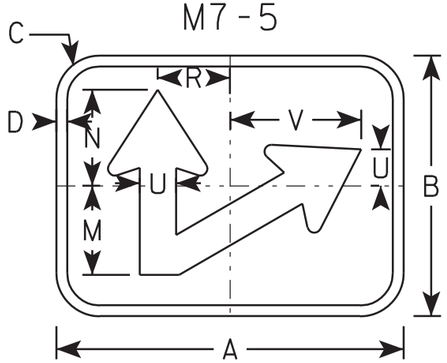
M7-4



M7-5



M7-6



M7-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message -White
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	12	9	1 1/2	3/8		1 5/8	4 3/8	3	3 1/4	3 3/4	1 3/8	3 7/8	3 1/8	3 3/8	2 7/8	2 1/2	5	2 1/2	2 1/4	4 1/4	1 1/4	4 1/2					.75
3																											
4																											
5																											

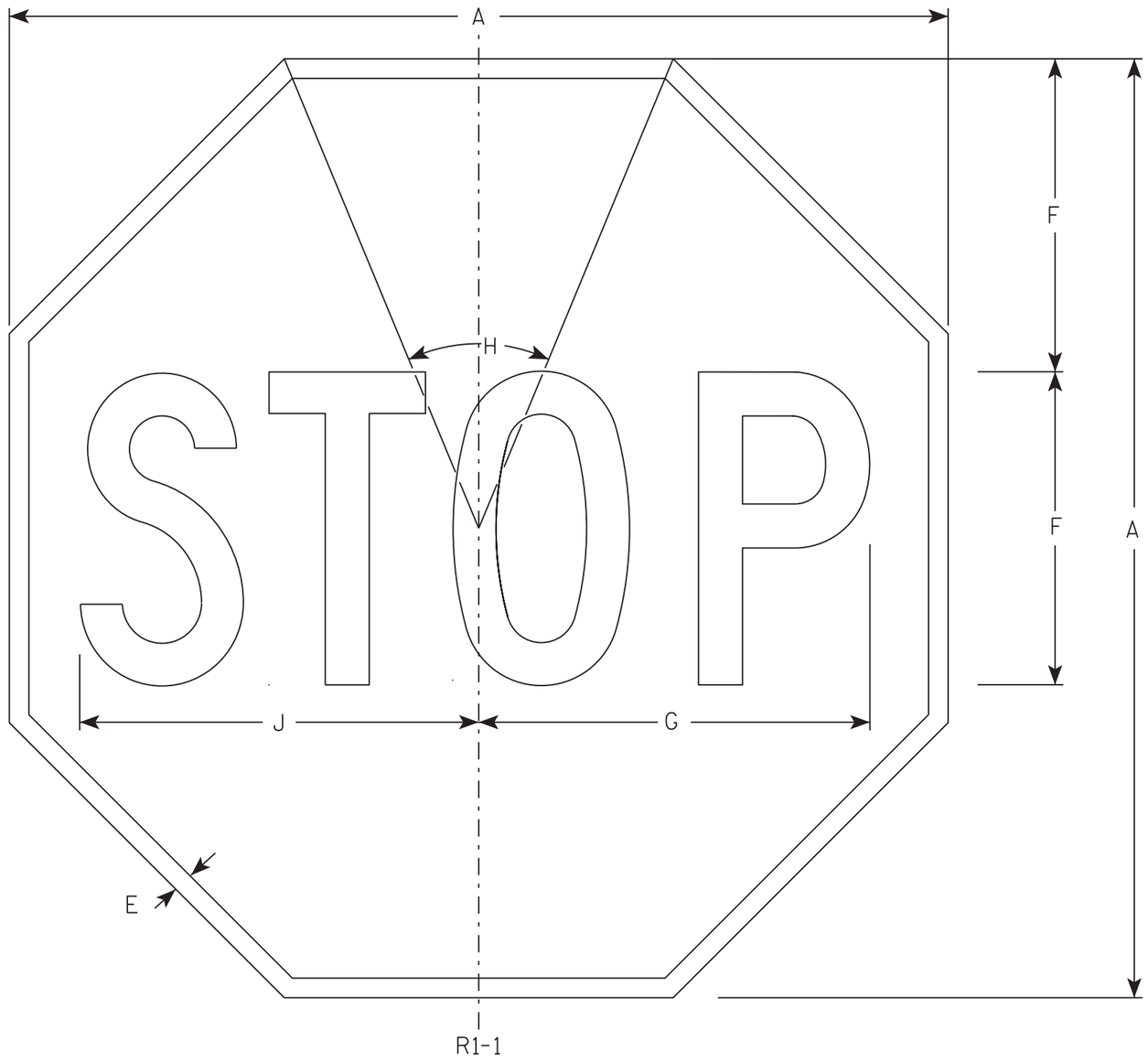
STANDARD SIGN
M7 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 05/04/10 PLATE NO. M7-1.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 140	E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

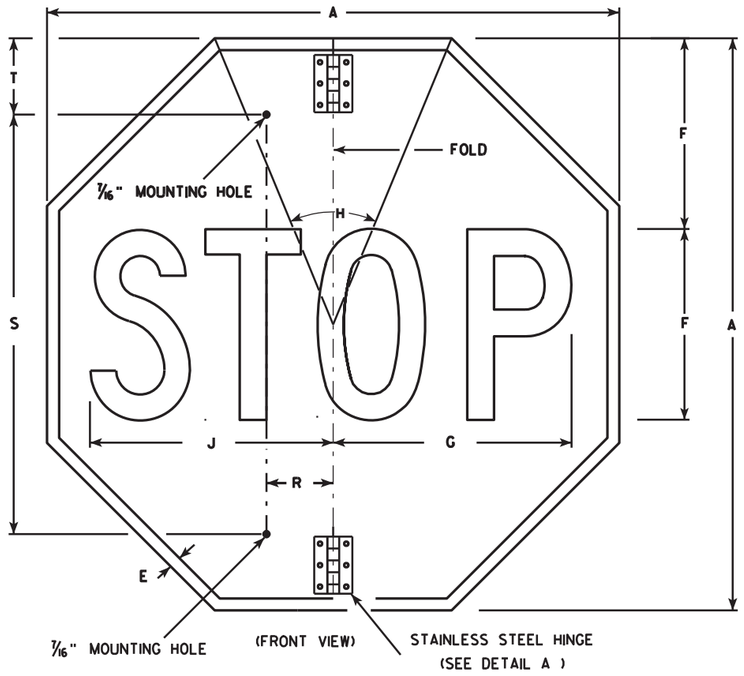
STANDARD SIGN
R1-1

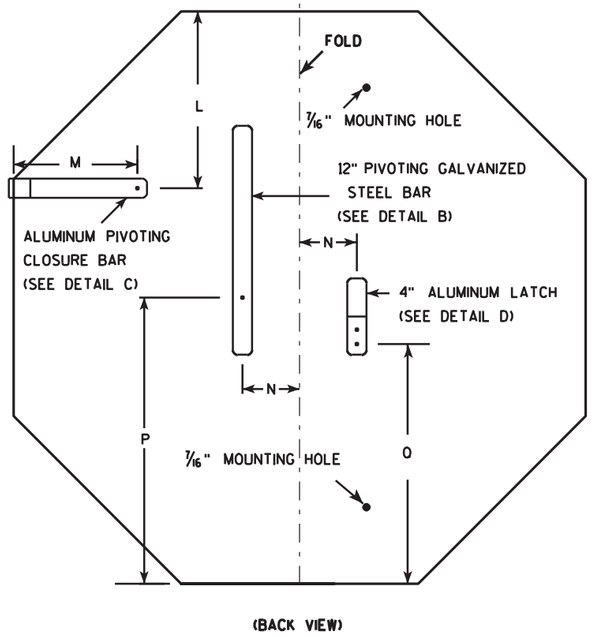
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

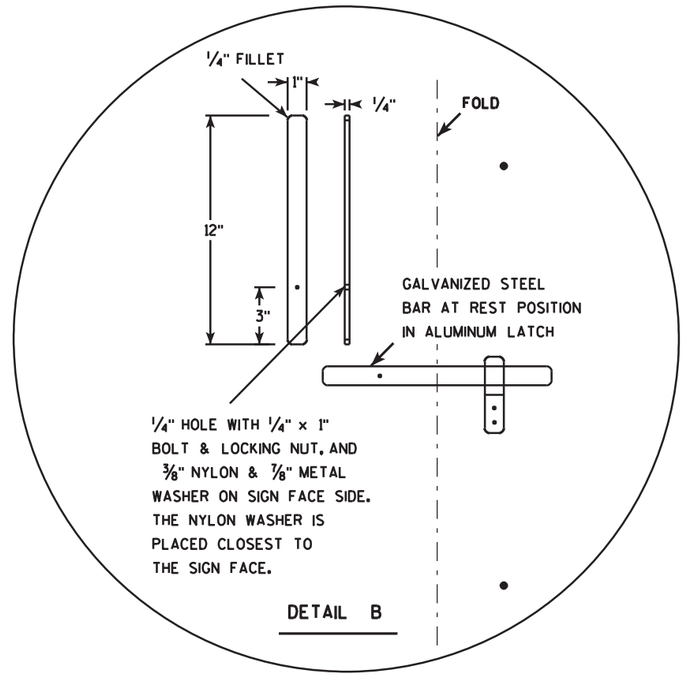
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 141	E



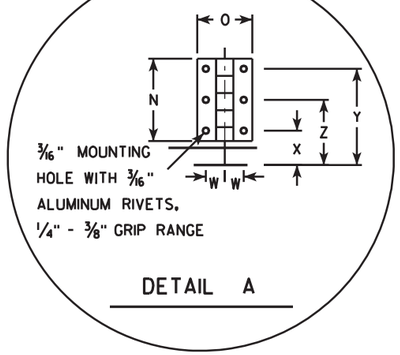


NOTES

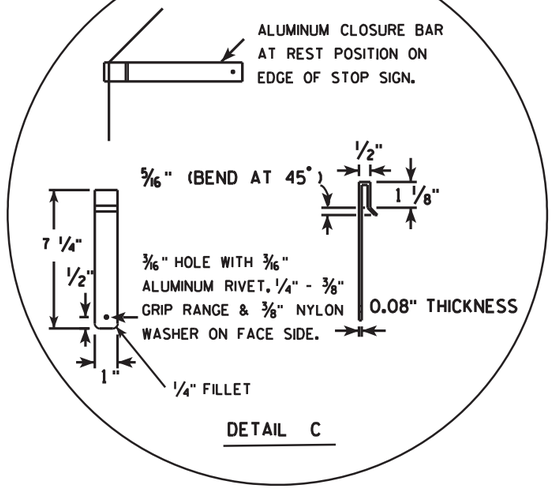
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



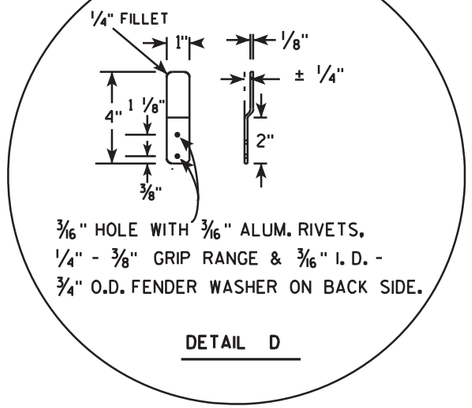
DETAIL B



DETAIL A



DETAIL C



DETAIL D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

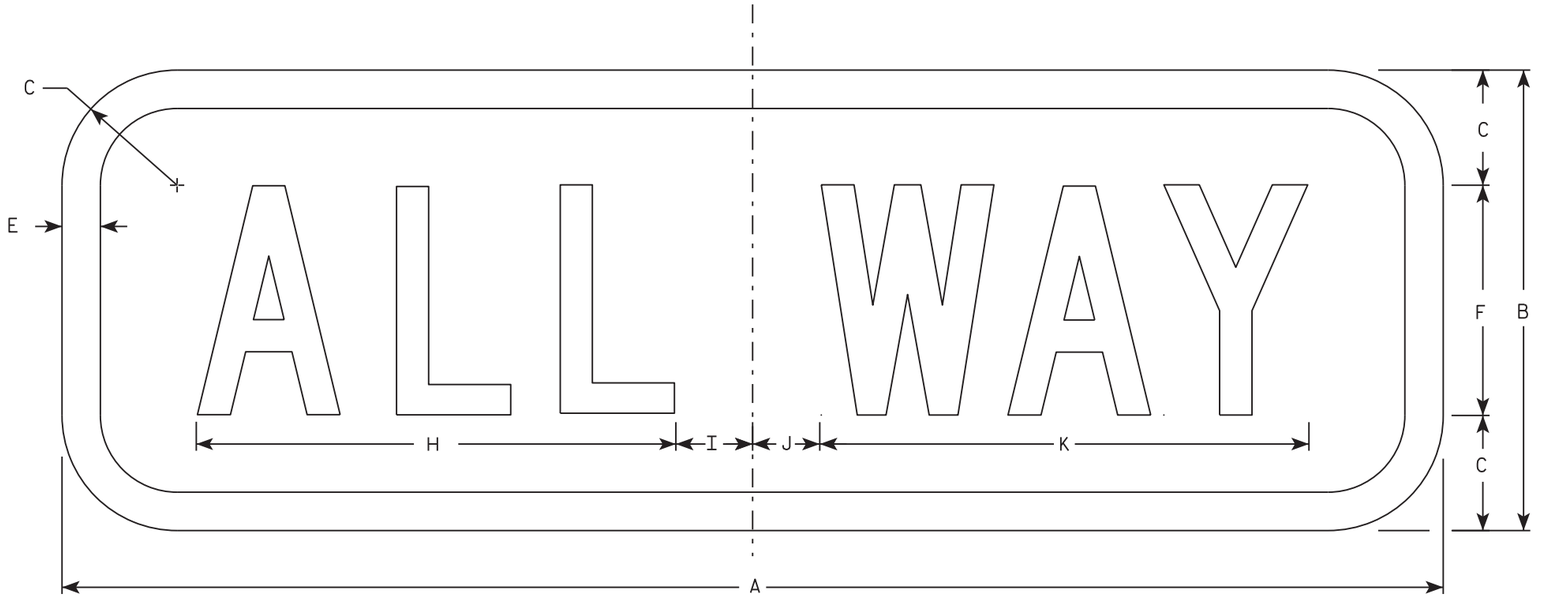
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 142 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. For 30"x30" R1-1 use 18"x6" R1-3P sign
   For 36"x36" R1-1 use 24"x9" R1-3P sign
   For 48"x48" R1-1 use 30"x12" R1-3P sign



R1-3P

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	6	1 1/2		1/2	3		6 1/4	1 1/4	7/8	6 3/8																0.75
2S	18	6	1 1/2		1/2	3		6 1/4	1 1/4	7/8	6 3/8																1.5
2M	24	9	1 1/2		1/2	5		9 1/4	1 1/4	3/4	9 3/4																1.5
3	24	9	1 1/2		1/2	5		9 1/4	1 1/4	3/4	9 3/4																1.5
4	30	12	2 1/4		5/8	6		11	2 1/4	1 1/2	11 3/4																2.5
5	30	12	2 1/4		5/8	6		11	2 1/4	1 1/2	11 3/4																2.5

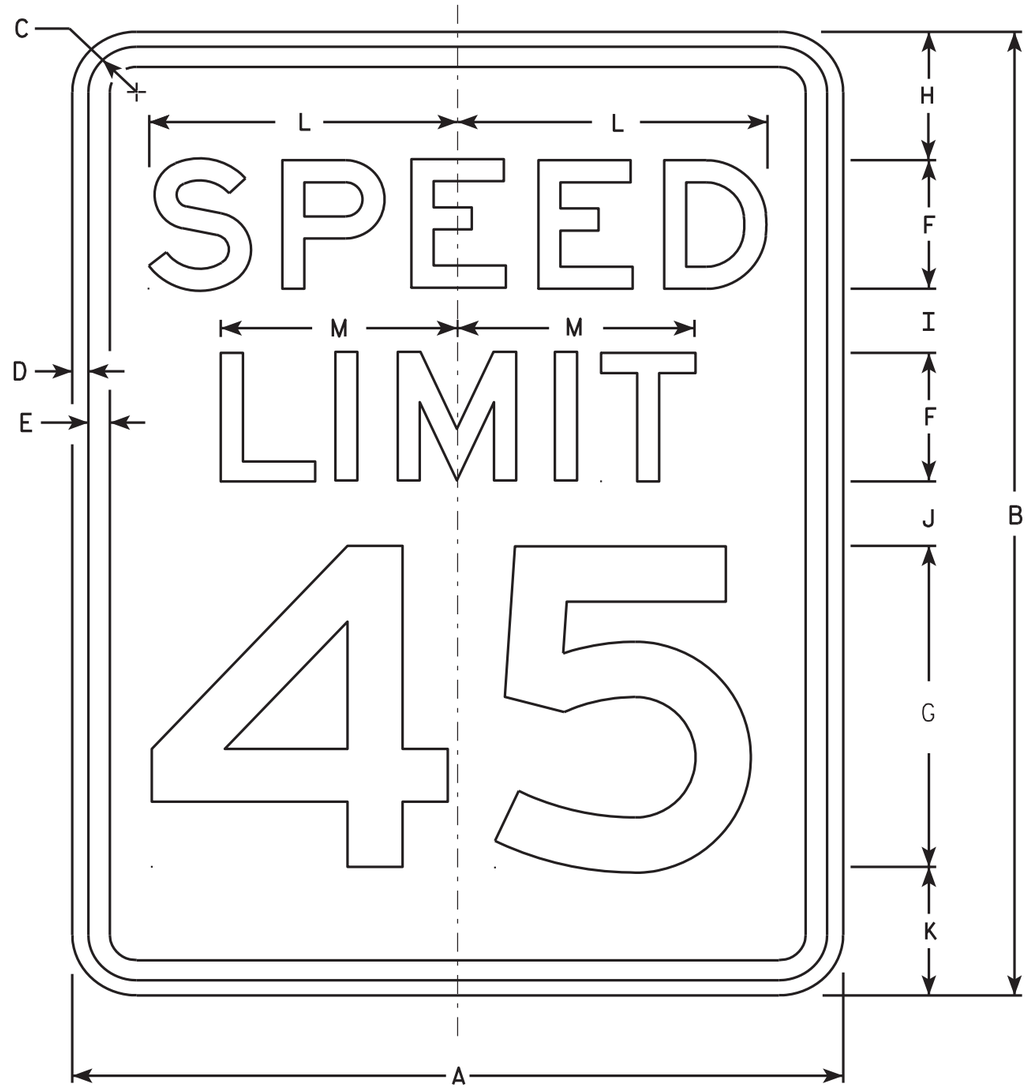
STANDARD SIGN
R1-3P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 11/29/16 PLATE NO. R1-3P.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 143 | E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

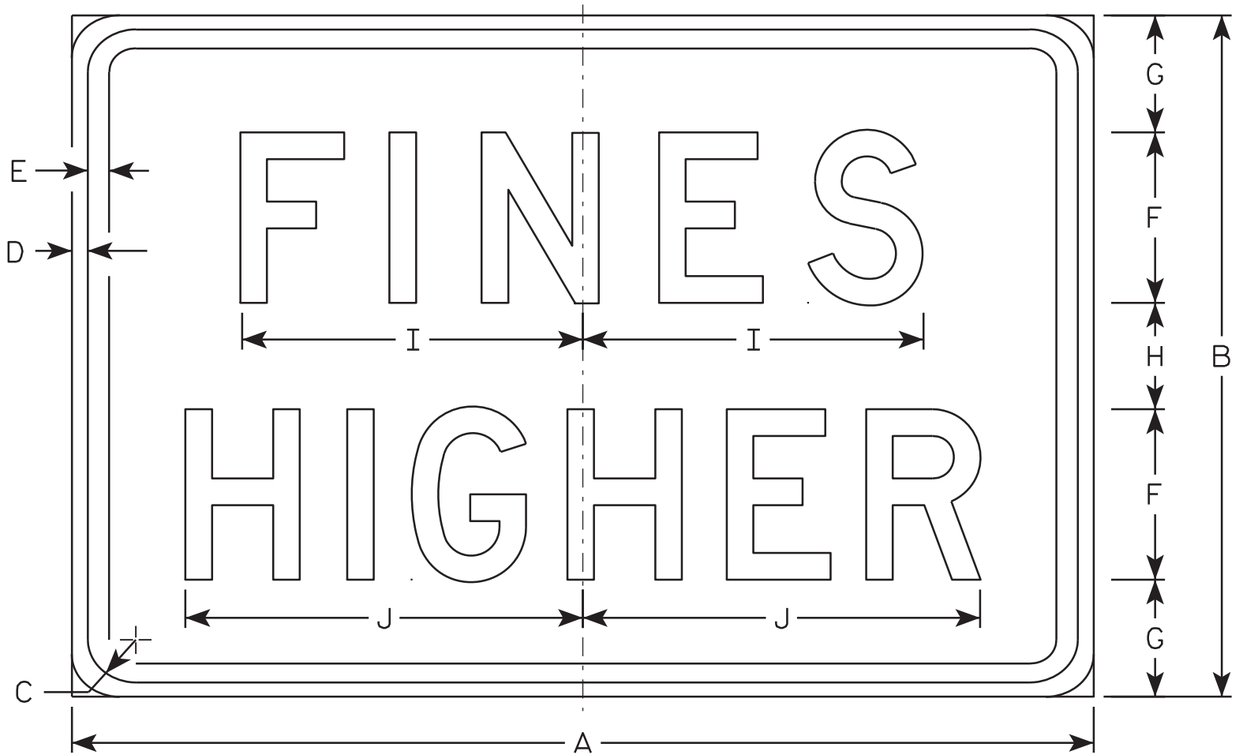
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 144 | E



R2-6P

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
2M	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
3	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
4	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
5	48	36	1 3/8	1/2	5/8	8	7	6	15 1/8	19																	12.0

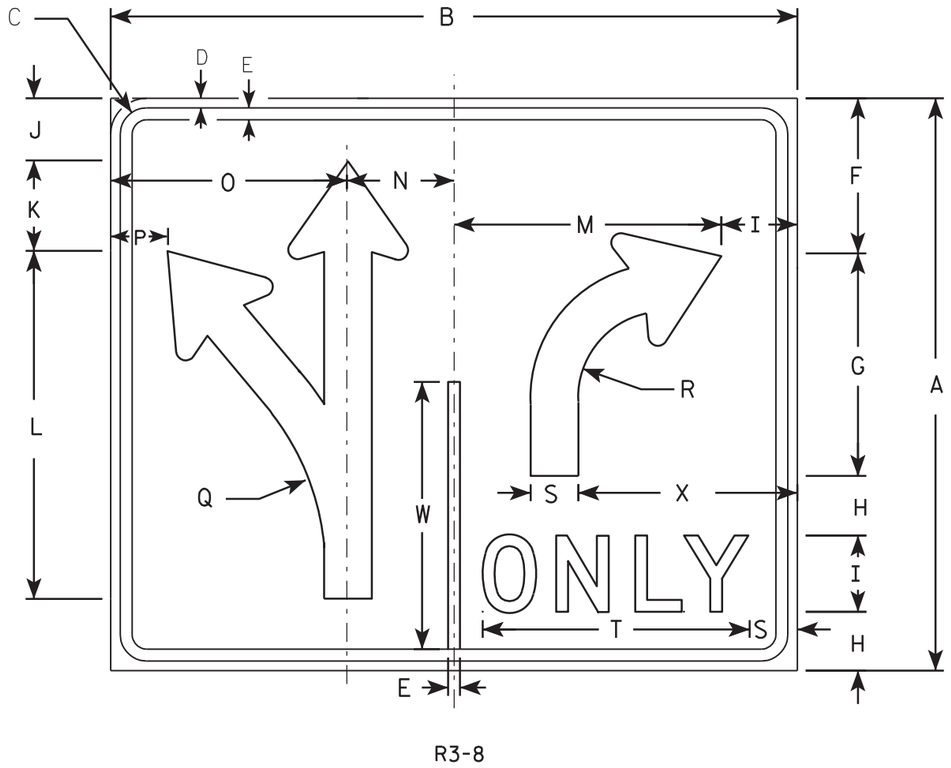
STANDARD SIGN
R2-6P

WISCONSIN DEPT OF TRANSPORTATION

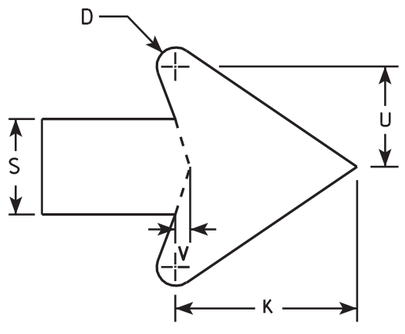
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/10 PLATE NO. R2-6P.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 145 | E



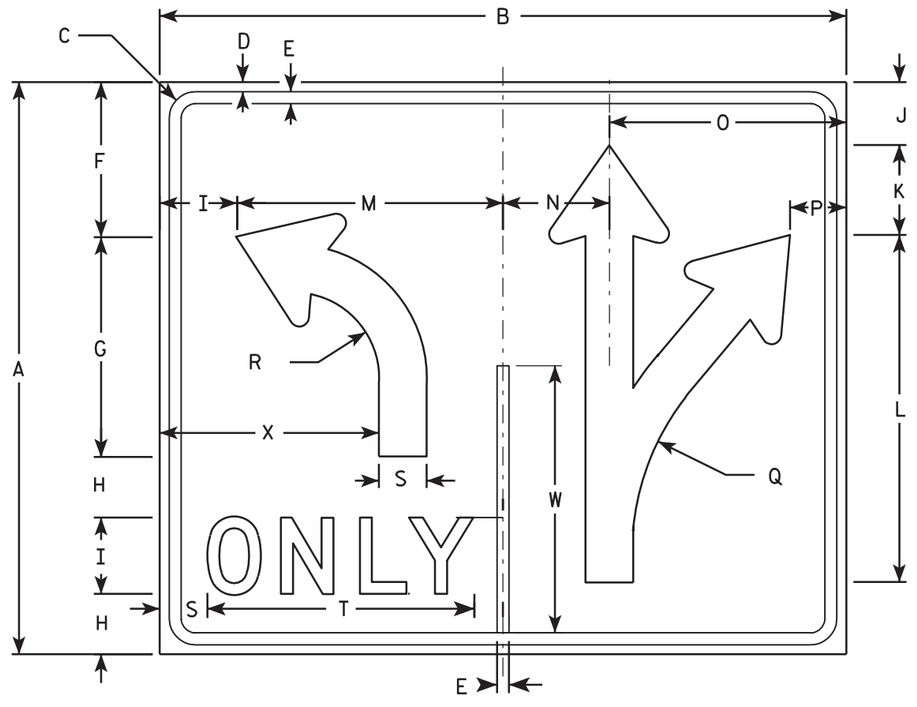
R3-8



ARROW DETAIL

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R3-8A

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	14	5 5/8	12 3/8	3	13 1/4	4 1/2	2 1/2	14	2 5/8	3/8	14	11 1/2			7.5
2M	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	14	5 5/8	12 3/8	3	13 1/4	4 1/2	2 1/2	14	2 5/8	3/8	14	11 1/2			7.5
3																											
4	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	5 1/4	7 1/8	29 1/8	21	8 3/8	18 5/8	4 3/8	21 7/8	7 1/4	3 3/4	20 5/8	4	5/8	22 3/8	17 1/4			18.0
5	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	5 1/4	7 1/8	29 1/8	21	8 3/8	18 5/8	4 3/8	21 7/8	7 1/4	3 3/4	20 5/8	4	5/8	22 3/8	17 1/4			18.0

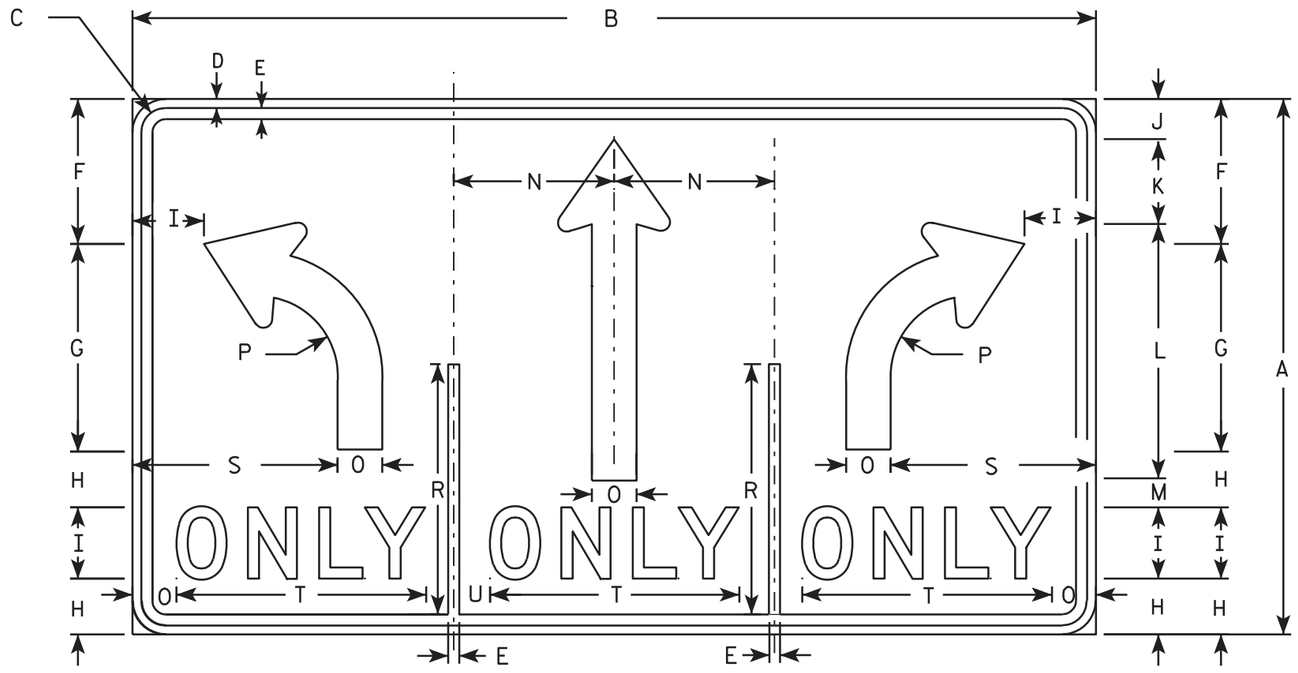
STANDARD SIGN
R3-8 & R3-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8.5

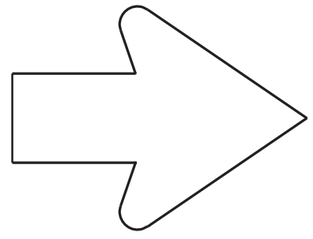
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 146	E



R3-8W

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SEE R3-8 FOR ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	9	2 1/2	4 1/2		14	11 1/2	14	2						11.25
2M	30	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	9	2 1/2	4 1/2		14	11 1/2	14	2						11.25
3																											
4	48	84	2 1/4	3/4	1	13	18 1/2	5 1/4	6	3 3/4	7	29 1/8	2 3/8	14	3 3/4	7 1/4		22 3/8	17 1/4	20 1/2	3 1/4						28.0
5	48	84	2 1/4	3/4	1	13	18 1/2	5 1/4	6	3 3/4	7	29 1/8	2 7/8	14	3 3/4	7 1/4		22 3/8	17 1/4	20 1/2	3 1/4						28.0

STANDARD SIGN
R3-8W

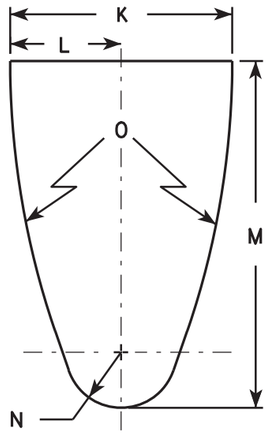
WISCONSIN DEPT OF TRANSPORTATION

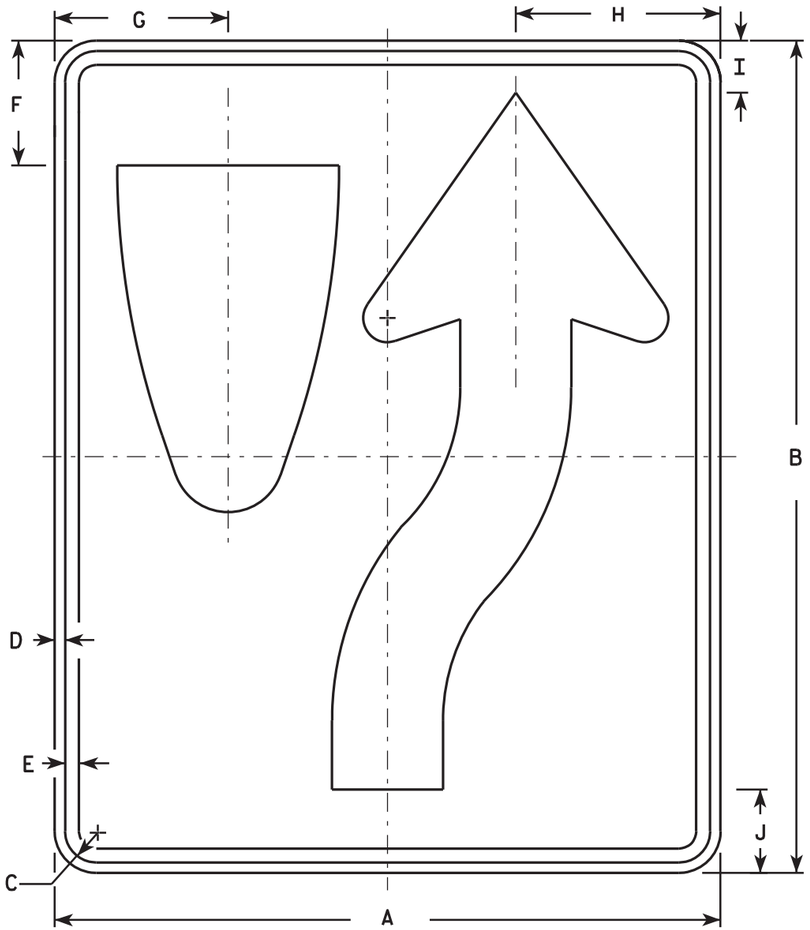
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-8W.4

PROJECT NO:

SHEET NO: 147 E

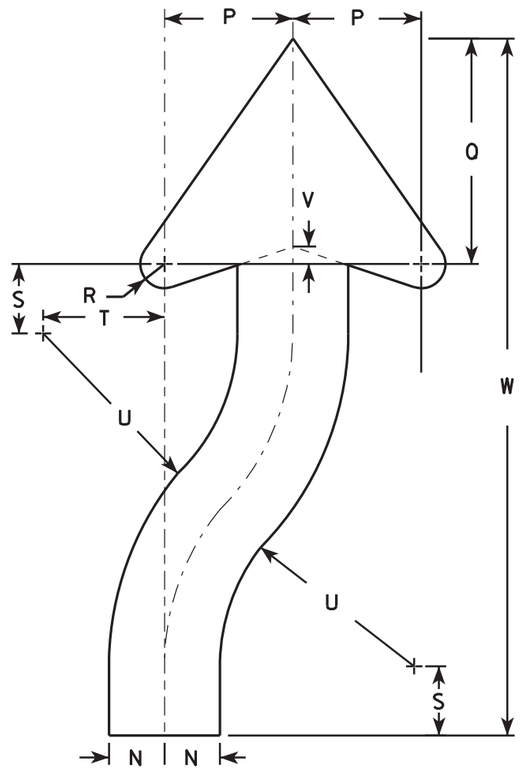




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

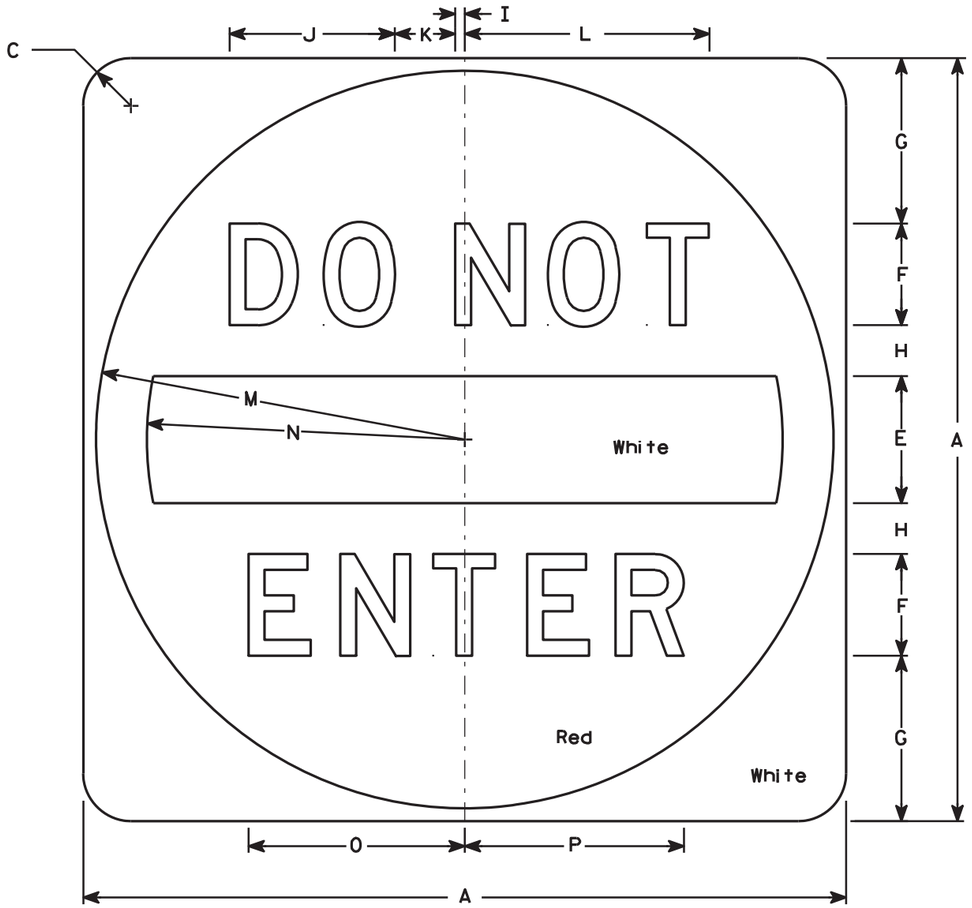
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 148	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See detail
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but when base material is metal, the cornors shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.26
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

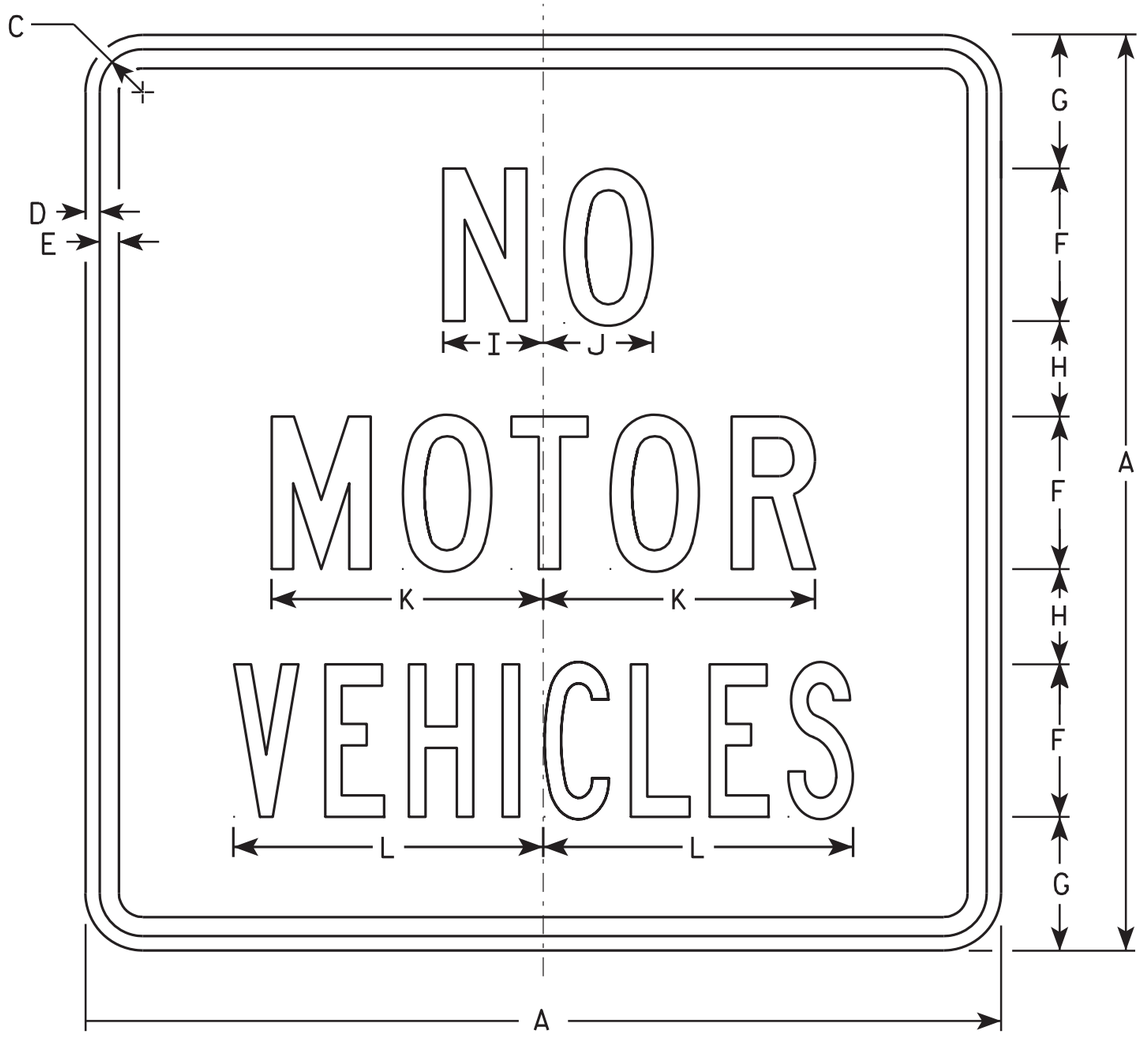
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 149 | E



R5-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See Note 5.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 & 2 are Series C.
   Line 3 is Series B.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	2 5/8	2 7/8	7 1/8	8 1/8															4.0
2M	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	2 5/8	2 7/8	7 1/8	8 1/8															4.0
3																											
4																											
5																											

STANDARD SIGN
R5-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-3.2

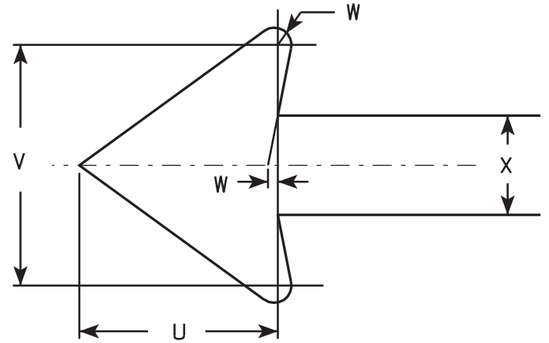
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 150	E



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

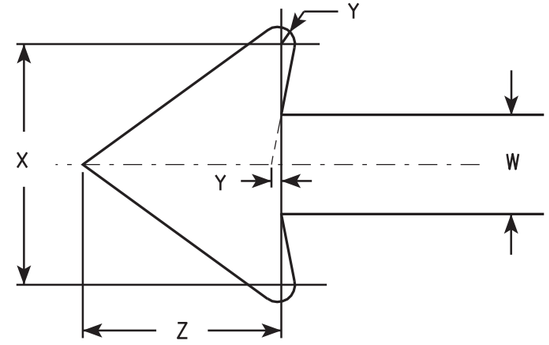
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 151	E



R7-51

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R7-51D (double arrow)
   R7-51R (right arrow)
   R7-51L (left arrow)
6. Lines 1, 3 and 4 are Series C.
   Line 2 is Series B.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	4 7/8	5/8	1 3/4	2 1/2	4 3/8	3 7/8	3/4	1 3/4	1/8	1 1/2	1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	5 3/4	1 1/8	1 1/2	3 1/8	5 1/2	5 7/8	1 1/8	2 5/8	1/4	2 1/4	3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 1/8	1 1/4	2	3 3/4	6 1/2	7 3/4	1 1/2	3 1/2	1/4	3	5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 1/8	1 1/4	2	3 3/4	6 1/2	7 3/4	1 1/2	3 1/2	1/4	3	5.0
4																											
5																											

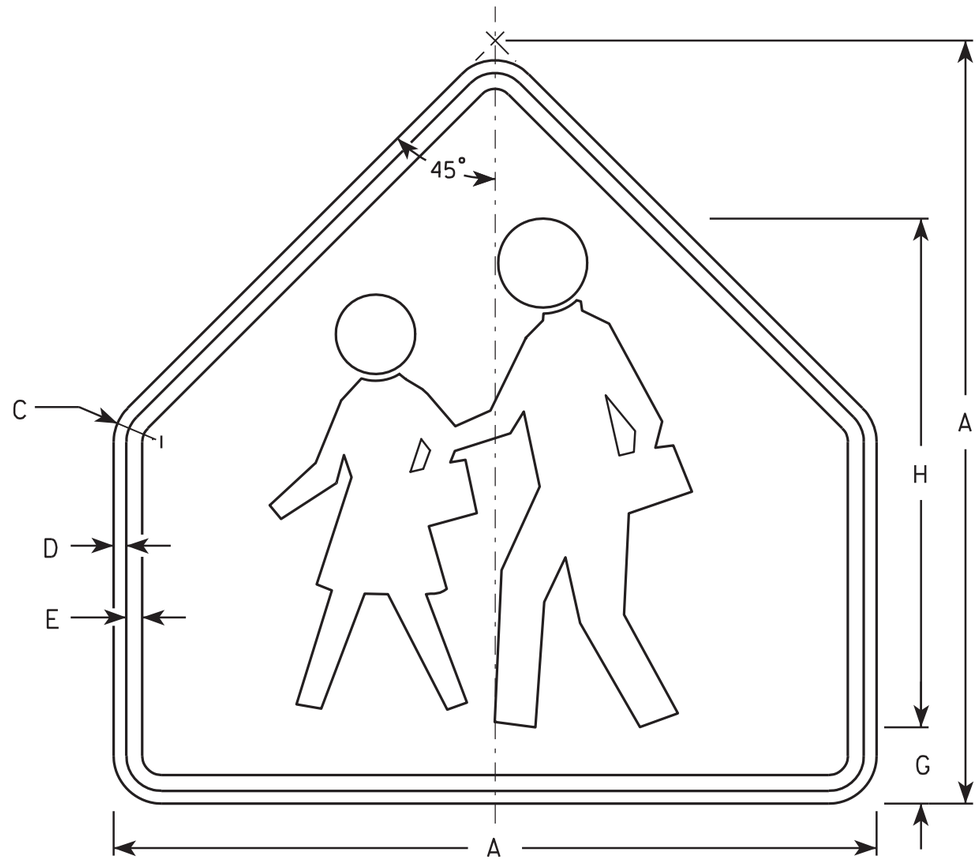
STANDARD SIGN
R7-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-51.6

PROJECT NO:	HWY:	COUNTY:			SHEET NO: 152	E



S1-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3	20																			4.69
2	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
3	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
4	48		2 1/4	3/4	1		4 3/4	32																			12
5																											

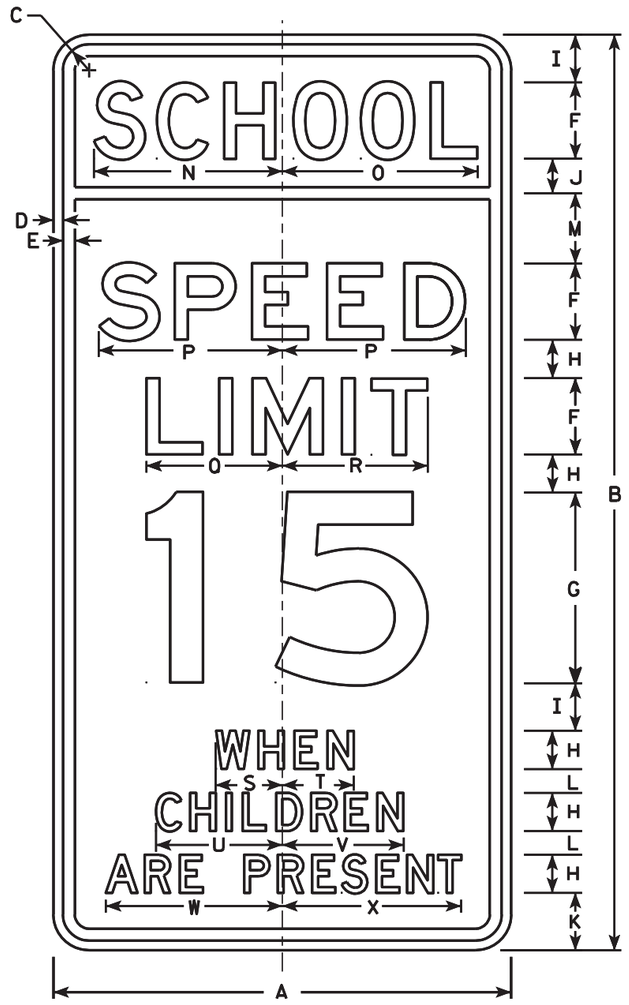
STANDARD SIGN
S1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/05 PLATE NO. S1-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 153	E



S4-51

NOTES

1. Sign is Type II - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. (See note 5).
2. Color:
   Background - See note 5
   Message - Black
3. Message Series - See note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Top panel (SCHOOL) background - Yellow Green -Type F Reflective.
   Lower panel background - White -Type H Reflective.
6. From top to bottom:
   Lines 1, 5, 6 & 7 are series D
   Lines 2, 3 & 4 are series E
7. Line 4 substitute appropriate numerals and adjust spacing to achieve proper balance.

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 1200 mm
3	900 mm X 1800 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	48	1 3/8	1/2	5/8	4	10	2	2 1/2	1 3/4	3	1 1/4	3 3/4	9 7/8	10 1/4	9 5/8	7 1/8	7 5/8	3 1/2	3 3/8	6 5/8	6 3/8	9 1/4	9 3/8			8.00	0.72
3	36	72	2 1/4	3/4	1	6	15	3	3 3/4	2 3/4	4 1/2	1 7/8	5 1/2	15	15 1/4	14 1/2	11 1/4	11 1/2	5 1/2	5 3/4	10	9 3/4	14	14 1/8			18.00	1.62
4																												
5																												

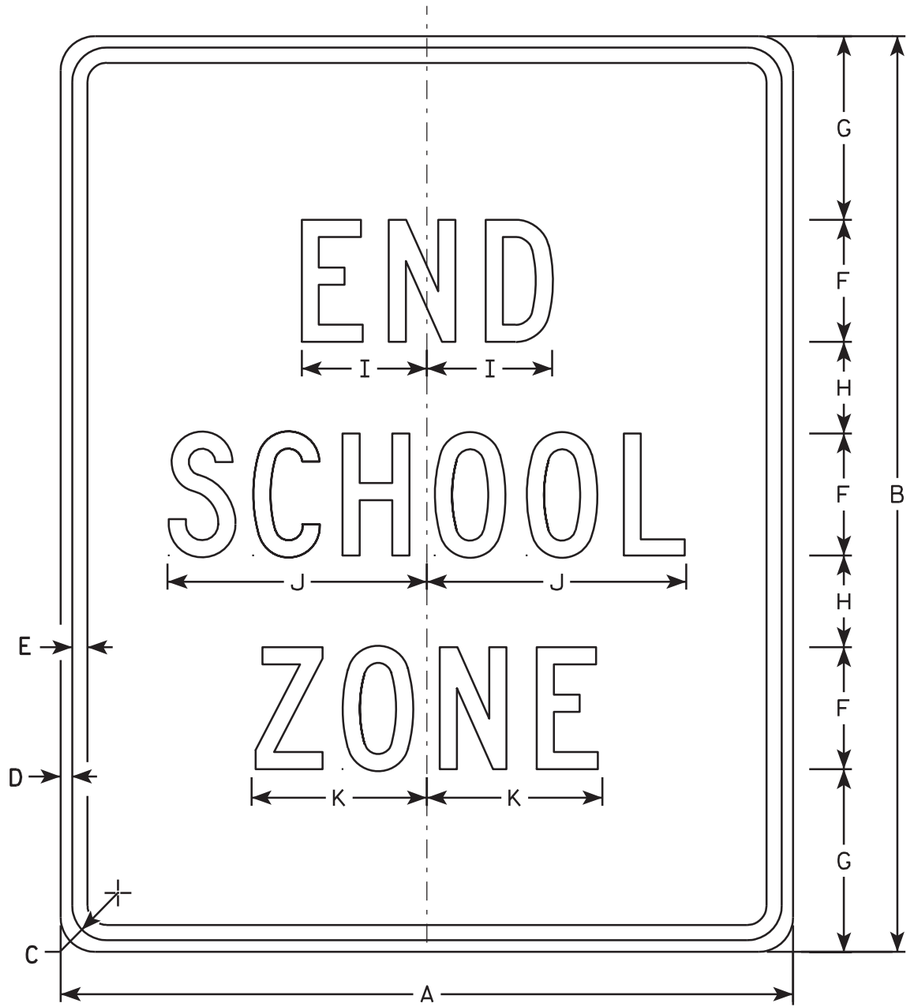
STANDARD SIGN
S4-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/26/10 PLATE NO. S4-51.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 154 | E



S5-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	30	1 1/8	3/8	1/2	4	6	3	4 1/8	8 1/2	5 3/4																5.0
3	36	42	1 5/8	5/8	3/4	6	7	5	6 1/8	12 5/8	8 5/8																10.5
4																											
5																											

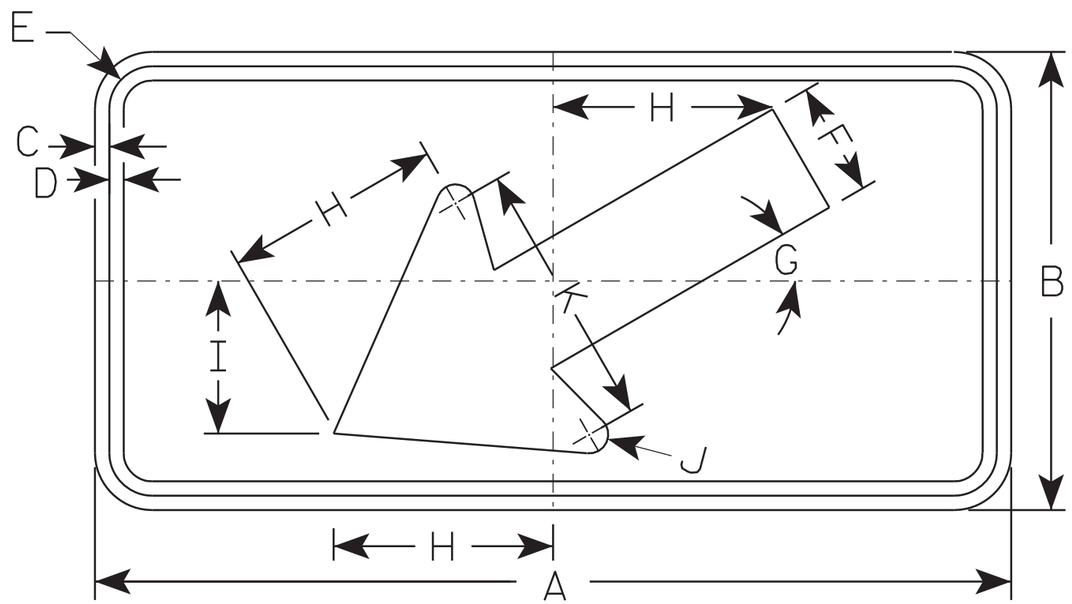
STANDARD SIGN
S5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/8/11 PLATE NO. S5-2.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 155 | E



S16-7L

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. S16-7R are the same as S16-7L except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2S	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4	48	24	1/2	5/8	1 3/8	6	30°	11 1/2	8	1	14																8.0
5																											

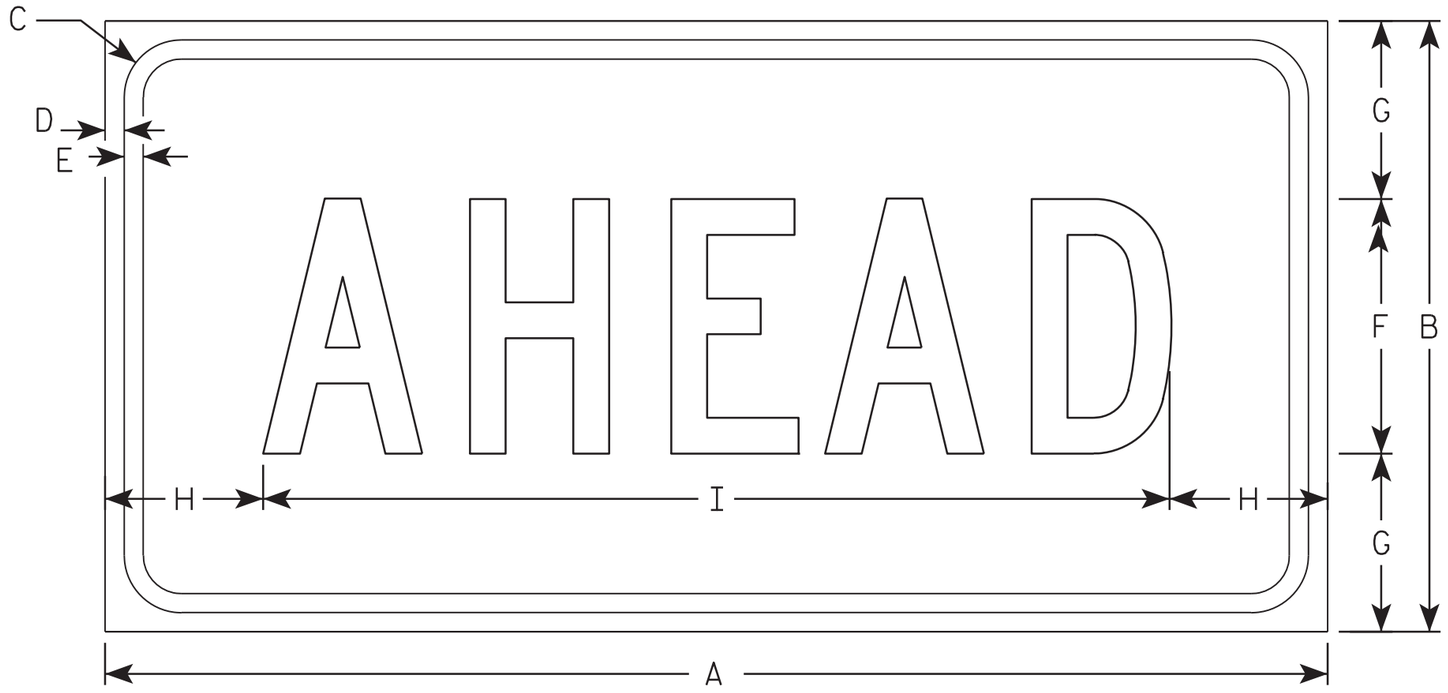
STANDARD SIGN
S16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-7.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 156 | E



S16-9P

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2S	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
S16-9P

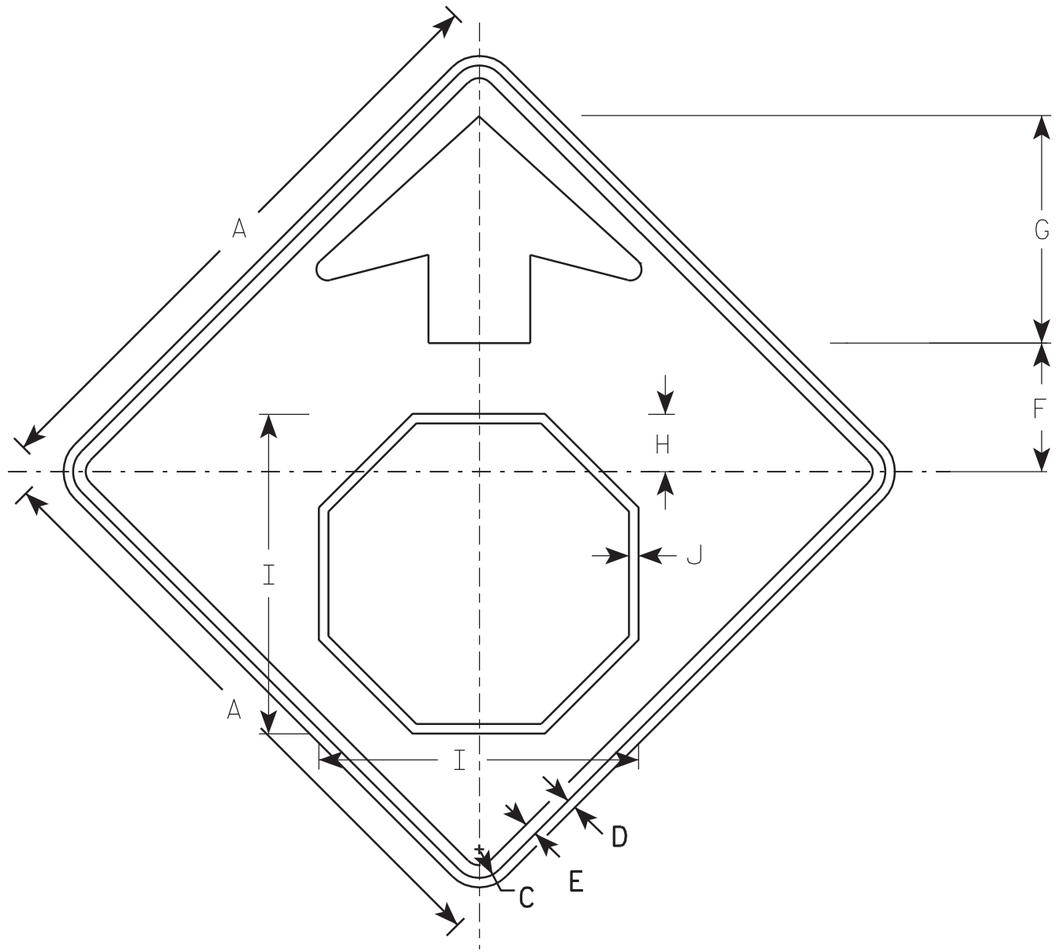
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-9P.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 157 | E

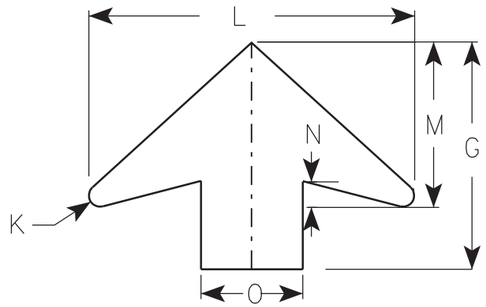
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\S169P.dgn PLOT DATE : 22-JUL-2013 10:32 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 2.977140:1.000000



W3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

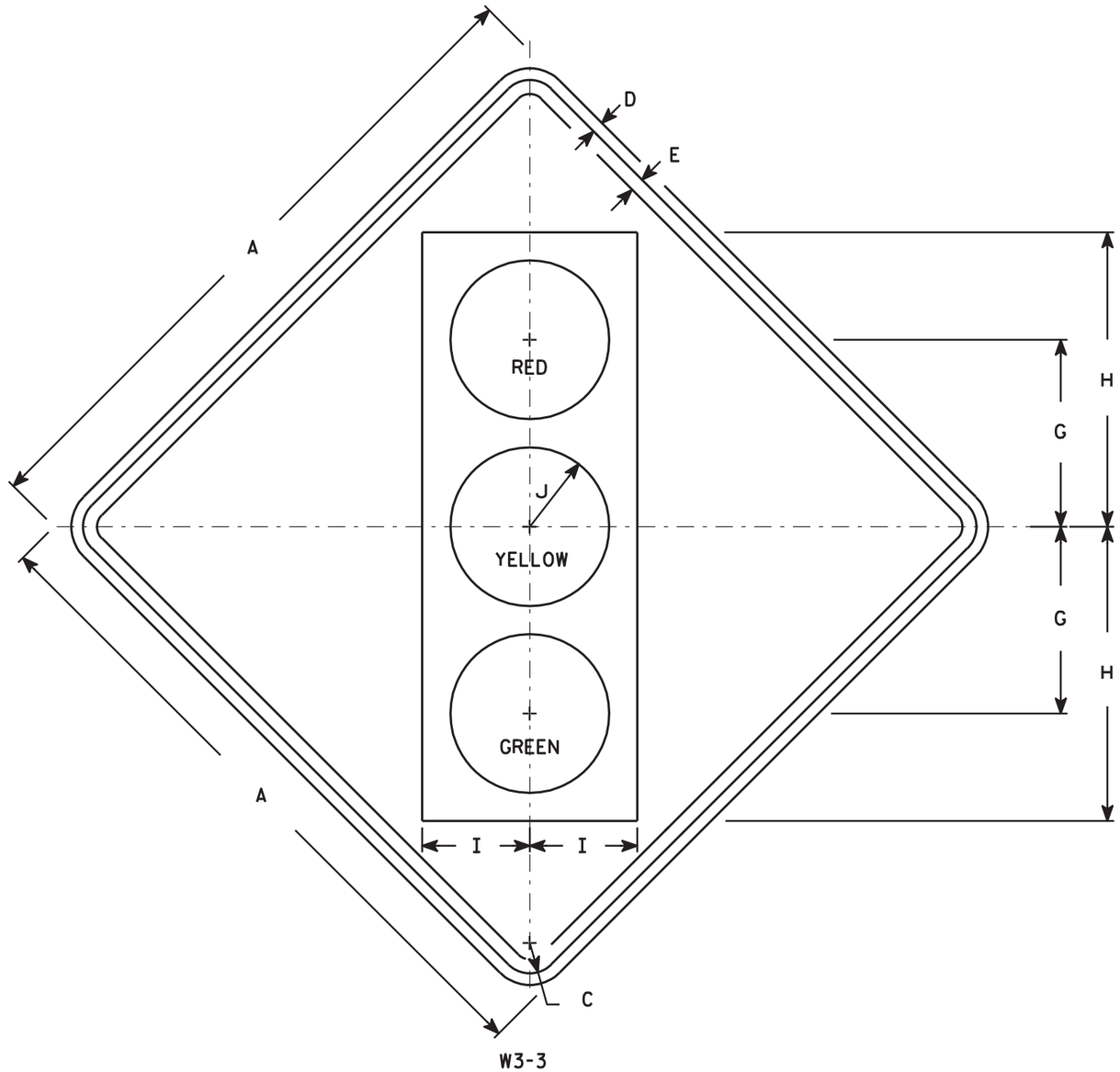
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

SHEET NO: 158 E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

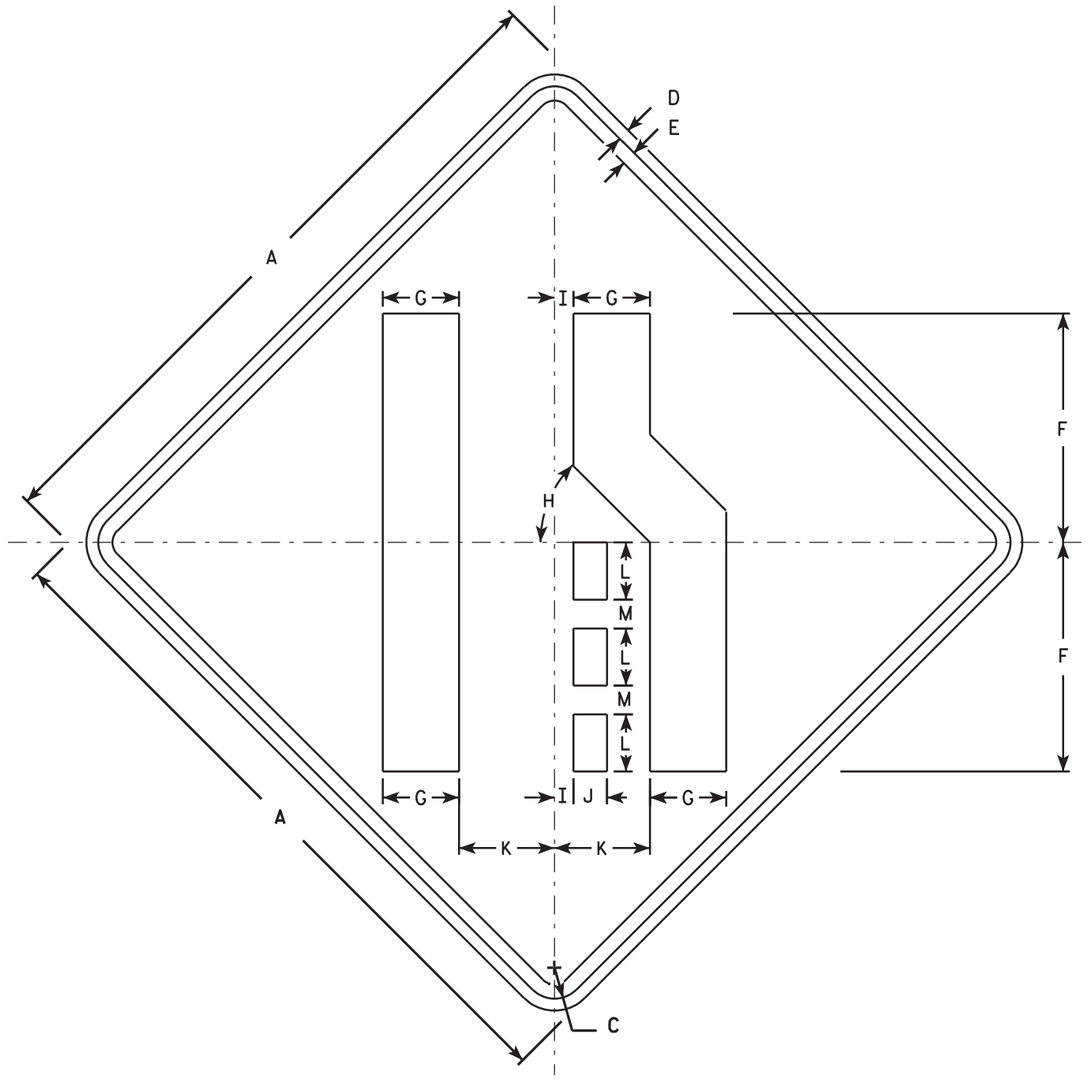
STANDARD SIGN
W3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 159	E



W4-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-2L is the same as W4-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10	3 3/8	45°	1/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W4-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO:

SHEET NO: 160 E

EARTHWORK DATA - SOUTH STREET

STATION	AREA (SF) CUT	AREA (SF) FILL	INCR. VOL (CY) CUT	INCR. VOL (CY) FILL	CUMULATIVE VOL (CY) CUT 1.00	CUMULATIVE VOL (CY) EXP. FILL 1.25	MASS ORDINATE
60+00.010	17.91	0.00	0.00	0.00	0.00	0.00	0.00
60+50.000	78.29	0.92	89.06	0.85	89.06	1.06	88.00
61+00.000	85.45	0.37	151.61	1.19	240.67	2.55	238.12
61+50.000	84.73	0.20	157.57	0.53	398.24	3.21	395.03
61+65.000	87.21	0.00	47.76	0.06	446.00	3.29	442.71
62+00.000	75.12	0.27	105.21	0.18	551.21	3.51	547.70
62+50.000	91.18	0.18	153.99	0.42	705.20	4.04	701.16
63+00.000	84.06	0.29	162.27	0.43	867.46	4.58	862.89
63+50.000	87.43	0.28	158.79	0.53	1026.25	5.24	1021.01
63+70.000	97.30	0.08	68.42	0.13	1094.66	5.40	1089.26
64+00.000	85.08	0.58	101.32	0.37	1195.99	5.86	1190.13
64+50.000	94.46	0.08	166.25	0.62	1362.23	6.64	1355.59
65+00.000	93.36	0.06	173.91	0.13	1536.14	6.80	1529.34
65+50.000	101.57	0.03	180.49	0.08	1716.62	6.90	1709.72
66+00.000	81.43	1.97	169.44	1.85	1886.07	9.21	1876.86
66+50.000	99.74	0.12	167.75	1.93	2053.81	11.63	2042.19
67+00.000	84.98	0.56	171.04	0.63	2224.85	12.41	2212.44
67+27.000	96.93	0.22	90.96	0.39	2315.81	12.90	2302.91
67+50.000	78.96	0.75	74.92	0.41	2390.73	13.41	2377.32
68+00.000	72.17	2.03	139.93	2.58	2530.66	16.64	2514.02
68+50.000	71.06	1.45	132.62	3.23	2663.28	20.68	2642.61
69+00.000	90.48	2.29	149.57	3.47	2812.86	25.01	2787.85
69+50.000	58.20	3.80	137.66	5.64	2950.52	32.06	2918.46
70+00.000	57.23	2.06	106.88	5.43	3057.40	38.85	3018.55
70+50.000	53.69	3.61	102.71	5.25	3160.11	45.41	3114.70
71+00.000	57.33	3.03	102.80	6.15	3262.92	53.10	3209.82
71+50.000	62.22	2.29	110.70	4.92	3373.62	59.25	3314.37
71+86.000	68.43	1.07	87.10	2.24	3460.72	62.05	3398.67
72+00.000	62.95	2.63	34.06	0.96	3494.79	63.25	3431.54
72+50.000	69.46	1.12	122.60	3.47	3617.39	67.59	3549.80
73+00.000	65.30	1.26	124.78	2.21	3742.17	70.35	3671.82
73+19.000	70.65	0.67	47.84	0.68	3790.01	71.20	3718.81
73+50.000	64.01	1.57	77.30	1.29	3867.31	72.81	3794.50
73+67.000	68.95	1.31	41.86	0.91	3909.17	73.95	3835.22
74+00.000	64.38	1.37	81.48	1.64	3990.65	76.00	3914.65
74+22.000	69.78	0.63	54.66	0.81	4045.31	77.01	3968.30
74+50.000	64.44	1.35	69.60	1.03	4114.91	78.30	4036.61
75+00.000	59.97	2.73	115.19	3.79	4230.10	83.04	4147.06

EARTHWORK DATA - SOUTH STREET

STATION	AREA (SF) CUT	AREA (SF) FILL	INCR. VOL (CY) CUT	INCR. VOL (CY) FILL	CUMULATIVE VOL (CY) CUT 1.00	CUMULATIVE VOL (CY) EXP. FILL 1.25	MASS ORDINATE
75+26.000	63.15	2.02	59.28	2.29	4289.38	85.90	4203.48
75+50.000	57.87	3.38	53.79	2.40	4343.17	88.90	4254.27
76+00.000	56.90	3.20	106.26	6.09	4449.43	96.51	4352.92
76+50.000	53.09	4.50	101.84	7.13	4551.27	105.43	4445.85
77+00.000	125.30	0.00	165.18	4.17	4716.45	110.64	4605.81
77+50.000	61.23	3.11	172.72	2.88	4889.17	114.24	4774.93
78+00.000	63.89	2.92	115.86	5.58	5005.02	121.21	4883.81
78+50.000	67.18	2.80	121.36	5.29	5126.38	127.83	4998.56
79+00.000	66.33	2.81	123.62	5.19	5250.00	134.31	5115.69
79+50.000	62.45	2.93	119.24	5.31	5369.24	140.95	5228.29
79+77.000	79.25	0.00	70.85	1.47	5440.08	142.79	5297.29
80+00.000	61.44	2.85	59.92	1.22	5500.01	144.31	5355.70
80+50.000	57.82	3.88	110.43	6.23	5610.43	152.10	5458.33
81+00.000	59.40	3.46	108.54	6.80	5718.97	160.60	5558.37
81+15.000	68.49	2.06	35.53	1.54	5754.50	162.53	5591.98
81+50.000	61.45	2.95	84.22	3.25	5838.72	166.59	5672.13
82+00.000	69.45	1.02	121.21	3.68	5959.92	171.19	5788.73
82+08.000	69.90	1.33	20.64	0.35	5980.57	171.63	5808.95
82+25.000	68.13	2.15	43.45	1.09	6024.02	172.99	5851.03
82+50.000	61.19	2.07	59.87	1.95	6083.90	175.43	5908.48
83+00.000	62.64	3.29	114.66	4.96	6198.55	181.63	6016.93
83+50.000	62.89	4.18	116.23	6.92	6314.78	190.28	6124.51
84+00.000	63.61	3.61	117.13	7.21	6431.92	199.29	6232.63
84+50.000	65.93	3.32	119.94	6.42	6551.86	207.31	6344.55
84+75.000	72.56	3.47	64.11	3.14	6615.98	211.24	6404.74
TOTALS			6615.98	168.99			

NOTE: SALVAGE/UNUSABLE PAVEMENT MATERIAL DOES NOT SHOW UP IN CROSS SECTIONS

EARTHWORK DATA - KERN AVENUE

STATION	AREA (SF)		INCR. VOL (CY)		CUMULATIVE VOL (CY)		MASS ORDINATE
	CUT	FILL	CUT	FILL	CUT 1.00	EXP. FILL 1.25	
13+00.000	39.63	0.00	0.00	0.00	0.00	0.00	0.00
13+50.000	38.40	0.47	72.25	0.44	72.25	0.55	71.70
14+00.000	36.53	0.30	69.38	0.72	141.63	1.45	140.18
14+50.000	37.93	0.00	68.94	0.28	210.57	1.80	208.77
15+00.000	40.78	0.00	72.88	0.00	283.45	1.80	281.65
15+50.000	39.89	7.68	74.69	7.12	358.14	10.70	347.44
15+68.000	53.26	0.03	31.05	2.57	389.19	13.91	375.28
16+00.000	15.60	11.78	40.80	7.00	430.00	22.66	407.34
16+50.000	34.32	4.62	46.22	15.19	476.21	41.65	434.56
17+00.000	41.04	7.68	69.77	11.39	545.99	55.89	490.10
17+50.000	45.21	3.62	79.86	10.46	625.85	68.96	556.89
18+00.000	62.59	7.34	99.82	10.14	725.67	81.64	644.03
18+50.000	302.95	3.85	338.47	10.36	1064.14	94.59	969.55
18+81.000	317.49	1.36	356.18	3.00	1420.31	98.34	1321.97
19+00.000	282.93	8.00	211.26	3.30	1631.57	102.46	1529.11
19+50.000	226.48	10.75	471.68	17.36	2103.25	124.16	1979.09
20+00.000	221.01	33.76	414.35	41.21	2517.60	175.68	2341.93
20+50.000	176.14	43.17	367.74	71.24	2885.33	264.73	2620.61
21+00.000	97.40	59.80	253.28	95.34	3138.61	383.90	2754.71
21+50.000	68.60	89.72	153.71	138.45	3292.32	556.96	2735.36
22+00.000	35.70	137.20	96.58	210.12	3388.90	819.61	2569.29
22+21.760	16.36	235.74	20.98	150.28	3409.88	1007.46	2402.42
22+50.000	9.22	244.81	13.38	251.31	3423.26	1321.60	2101.66
23+00.000	10.72	256.53	18.46	464.20	3441.72	1901.85	1539.87
23+50.000	38.29	227.10	45.38	447.81	3487.09	2461.61	1025.48
24+00.000	34.26	213.39	67.17	407.87	3554.27	2971.45	582.82
24+50.000	94.20	108.64	118.94	298.18	3673.20	3344.18	329.03
25+00.000	273.31	0.60	340.28	101.15	4013.48	3470.61	542.87
25+50.000	362.20	0.00	588.44	0.55	4601.92	3471.30	1130.62
26+00.000	325.94	1.19	637.17	1.10	5239.09	3472.68	1766.42
26+50.000	304.04	4.89	583.31	5.63	5822.41	3479.71	2342.70
27+00.000	347.01	0.81	602.82	5.28	6425.23	3486.31	2938.92
27+50.000	366.47	0.05	657.24	0.83	7082.46	3487.35	3595.11
28+00.000	347.93	0.00	655.57	0.05	7738.04	3487.41	4250.63
28+50.000	315.87	0.02	610.42	0.02	8348.46	3487.44	4861.02
29+00.000	279.72	0.41	548.28	0.43	8896.74	3487.98	5408.77
29+50.000	286.16	0.01	522.65	0.42	9419.39	3488.50	5930.89
29+75.000	352.28	0.00	297.86	0.00	9717.25	3488.50	6228.75

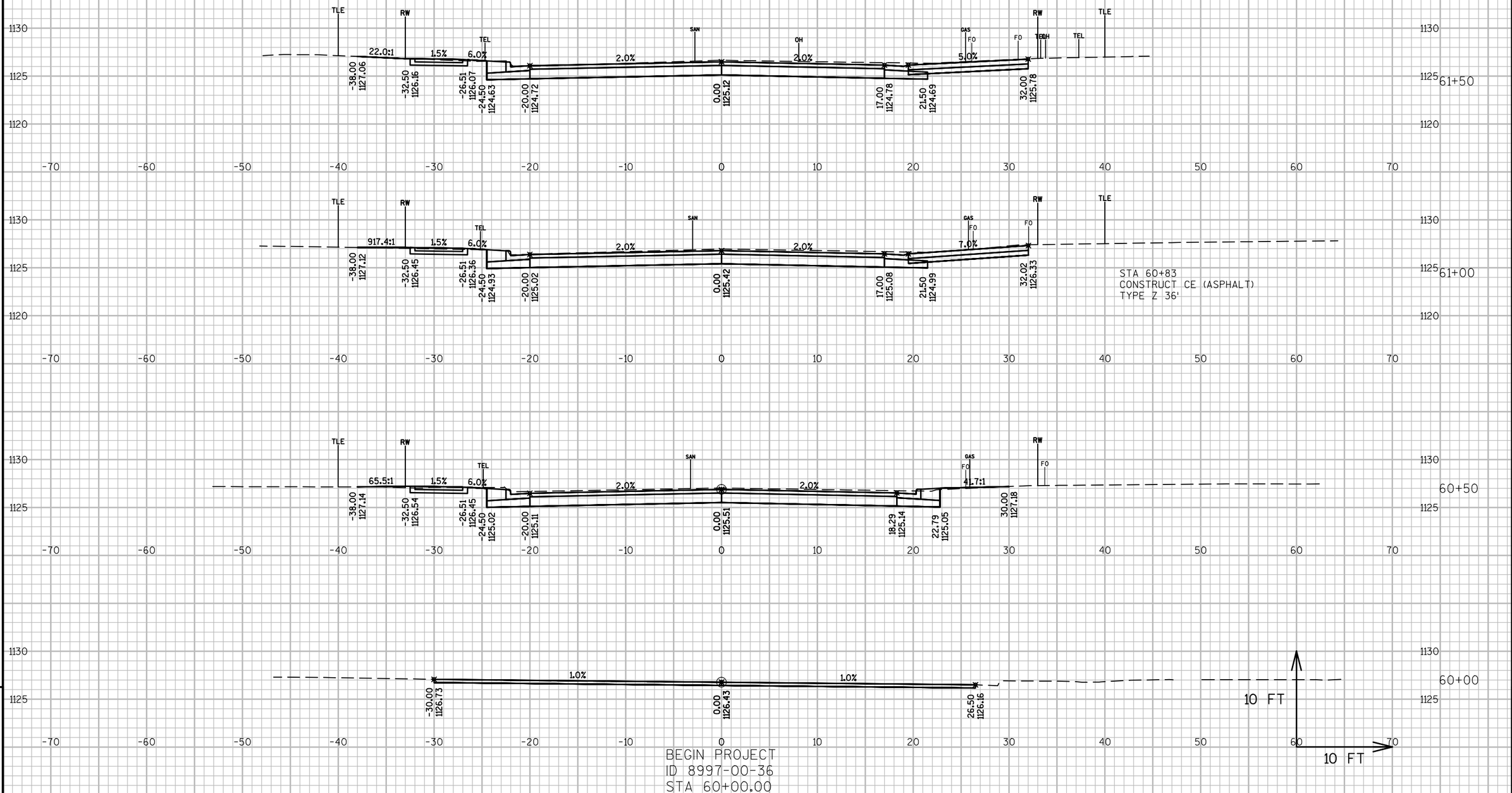
EARTHWORK DATA - KERN AVENUE

STATION	AREA (SF)		INCR. VOL (CY)		CUMULATIVE VOL (CY)		MASS ORDINATE
	CUT	FILL	CUT	FILL	CUT 1.00	EXP. FILL 1.25	
30+00.000	270.84	0.93	290.65	0.46	10007.89	3489.08	6518.82
30+50.000	244.80	2.38	476.53	3.27	10484.42	3493.16	6991.26
31+00.000	230.92	7.41	439.01	9.66	10923.43	3505.24	7418.19
31+50.000	229.09	2.04	424.47	9.32	11347.90	3516.89	7831.01
32+00.000	255.44	0.15	447.49	2.16	11795.39	3519.59	8275.80
32+50.000	264.78	0.00	481.33	0.15	12276.72	3519.78	8756.95
33+00.000	257.93	0.02	483.99	0.02	12760.70	3519.80	9240.90
33+50.000	254.70	0.00	474.66	0.02	13235.36	3519.83	9715.54
34+00.000	248.82	0.11	466.23	0.10	13701.59	3519.95	10181.64
34+50.000	234.99	0.41	447.84	0.46	14149.43	3520.53	10628.91
35+00.000	241.28	0.23	440.50	0.53	14589.94	3521.19	11068.75
35+50.000	241.85	4.03	447.35	3.94	15037.29	3526.11	11511.18
36+00.000	229.24	18.93	436.20	21.26	15473.49	3552.69	11920.80
36+50.000	211.43	35.74	408.03	50.63	15881.52	3615.98	12265.55
37+00.000	195.29	36.56	376.59	66.94	16258.12	3699.65	12558.47
37+50.000	217.34	18.22	382.06	50.72	16640.18	3763.05	12877.13
38+00.000	231.29	4.51	415.40	21.04	17055.57	3789.35	13266.22
38+50.000	240.57	1.07	436.91	5.17	17492.48	3795.81	13696.67
39+00.000	216.17	4.58	422.91	5.23	17915.39	3802.35	14113.04
39+50.000	206.55	6.41	391.41	10.17	18306.80	3815.06	14491.74
40+00.000	229.35	0.90	403.62	6.77	18710.42	3823.53	14886.90
40+50.000	228.99	2.10	424.41	2.94	19134.83	3827.20	15307.63
41+00.000	231.28	6.52	425.38	8.52	19560.21	3837.85	15722.36
41+50.000	224.79	19.36	420.58	25.57	19980.80	3869.81	16110.99
42+00.000	213.49	23.57	403.61	42.40	20384.41	3922.81	16461.60
42+50.000	239.85	16.10	416.91	39.17	20801.32	3971.78	16829.55
43+00.000	293.13	5.12	488.88	20.96	21290.20	3997.98	17292.23
43+50.000	277.48	10.33	523.07	15.27	21813.27	4017.06	17796.21
44+00.000	233.88	27.16	469.21	37.02	22282.48	4063.34	18219.14
44+50.000	397.12	0.00	582.88	25.62	22865.36	4095.36	18770.00
45+00.000	222.50	16.87	573.72	15.62	23439.09	4114.89	19324.20
45+50.000	244.40	0.75	432.32	16.32	23871.40	4135.29	19736.11
46+00.000	236.07	1.29	444.88	1.90	24316.28	4137.66	20178.62
46+50.000	240.64	0.00	441.40	1.20	24757.68	4139.16	20618.52
47+00.000	232.17	0.08	437.78	0.07	25195.46	4139.25	21056.21
47+50.000	237.52	0.17	434.90	0.23	25630.36	4139.54	21490.82
48+00.000	227.19	1.70	430.29	1.73	26060.65	4141.70	21918.95
48+50.000	232.27	1.24	425.42	2.72	26486.07	4145.10	22340.97

EARTHWORK DATA - KERN AVENUE

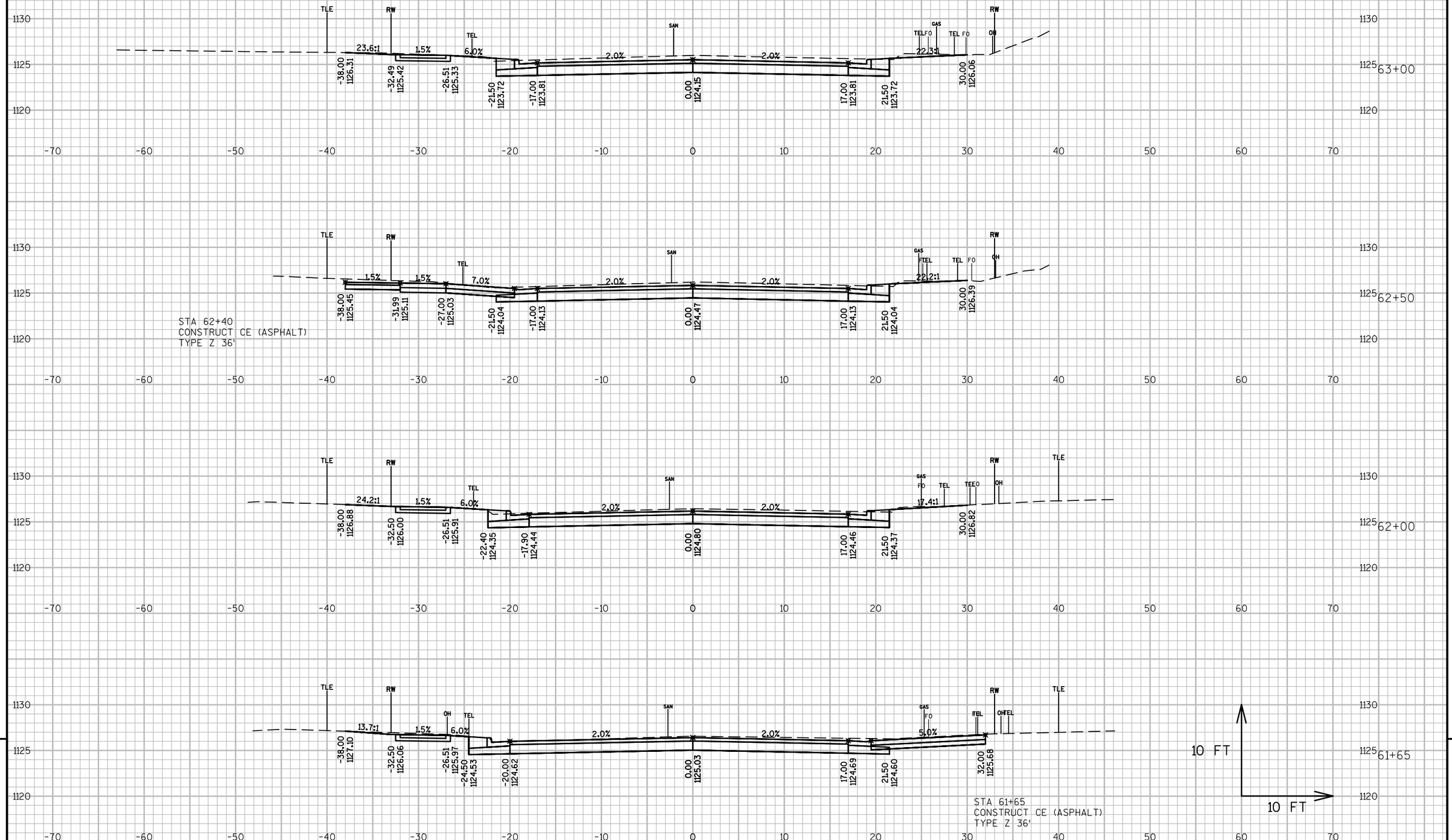
STATION	AREA (SF)		INCR. VOL (CY)		CUMULATIVE VOL (CY)		
	CUT	FILL	CUT	FILL	CUT 1.00	EXP. FILL 1.25	MASS ORDINATE
49+00.000	215.79	3.13	414.87	4.04	26900.93	4150.15	22750.78
49+50.000	200.37	9.11	385.33	11.33	27286.27	4164.31	23121.96
50+00.000	184.45	12.51	356.32	20.02	27642.59	4189.34	23453.25
50+50.000	177.25	14.69	334.91	25.18	27977.49	4220.81	23756.68
51+00.000	199.40	8.24	348.75	21.23	28326.24	4247.35	24078.89
51+50.000	220.49	1.69	388.78	9.20	28715.02	4258.85	24456.17
52+00.000	238.03	0.00	424.29	1.58	29139.31	4260.83	24878.49
52+50.000	251.97	0.34	453.03	0.32	29592.34	4261.23	25331.12
53+00.000	237.44	0.18	453.16	0.48	30045.50	4261.83	25783.68
53+50.000	220.00	1.04	423.56	1.13	30469.06	4263.24	26205.82
54+00.000	14.72	0.00	217.33	0.97	30686.39	4264.45	26421.94
54+50.000	11.52	0.00	24.30	0.00	30710.69	4264.45	26446.24
55+00.000	13.29	0.00	22.97	0.00	30733.66	4264.45	26469.21
55+50.000	12.10	0.00	23.51	0.00	30757.17	4264.45	26492.72
56+00.000	13.38	0.00	23.59	0.00	30780.76	4264.45	26516.31
56+50.000	14.70	0.00	26.00	0.00	30806.76	4264.45	26542.31
57+00.000	14.06	0.00	26.63	0.00	30833.39	4264.45	26568.94
57+50.000	22.02	0.00	33.41	0.00	30866.80	4264.45	26602.35
58+00.000	16.38	0.00	35.54	0.00	30902.34	4264.45	26637.89
TOTALS			30902.36	3411.56			

NOTE: SALVAGE/UNUSABLE PAVEMENT
MATERIAL DOES NOT SHOW UP IN
CROSS SECTIONS



BEGIN PROJECT
ID 8997-00-36
STA 60+00.00

PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: E SOUTH STREET	SHEET 164	E



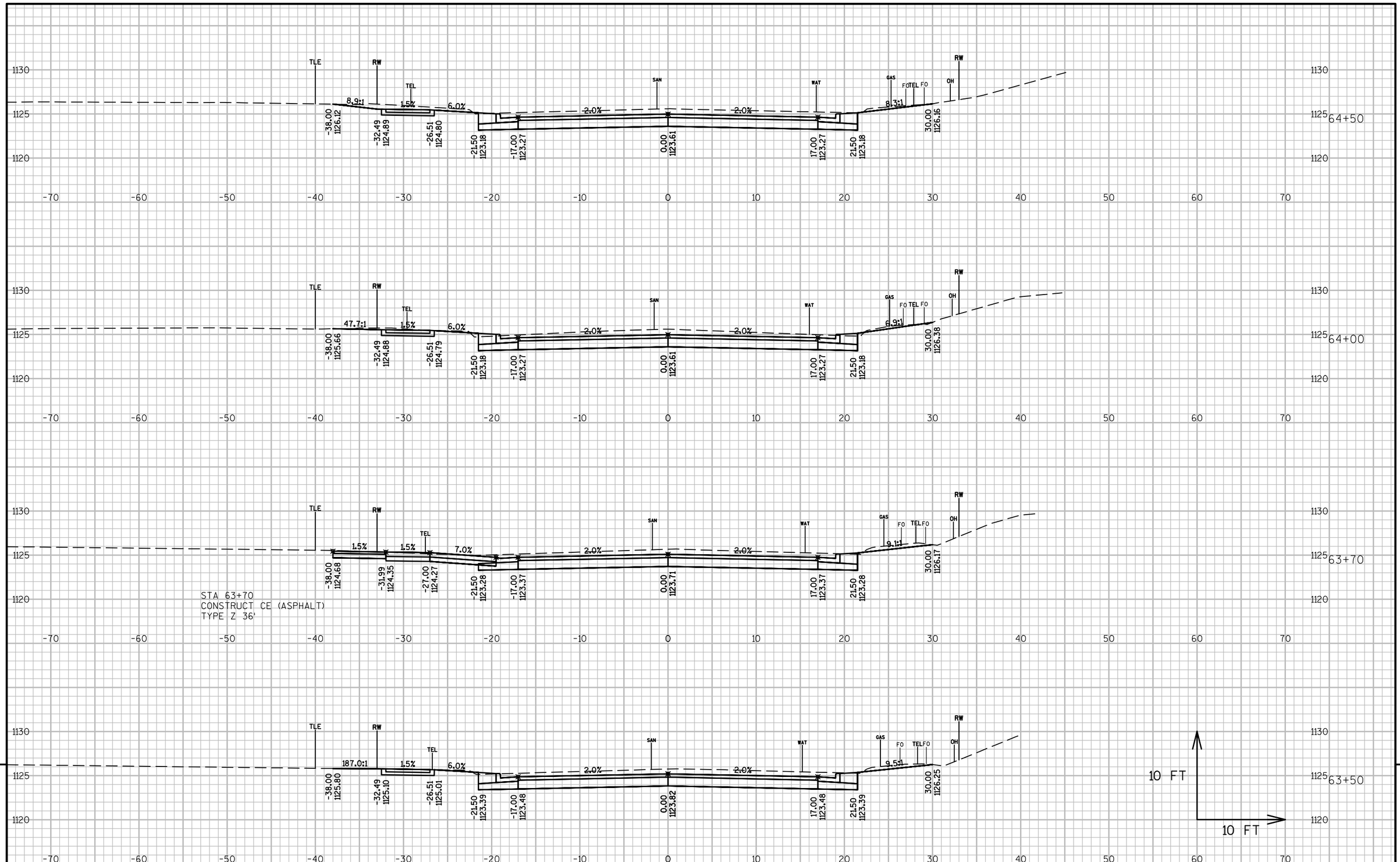
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9

PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: E SOUTH STREET	SHEET 165	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-SOUTHST.DWG
LAYOUT NAME - 0903 (2)

PLOT DATE : 10/16/2017 11:40 AM PLOT BY : HEDRINGTON, MARK PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

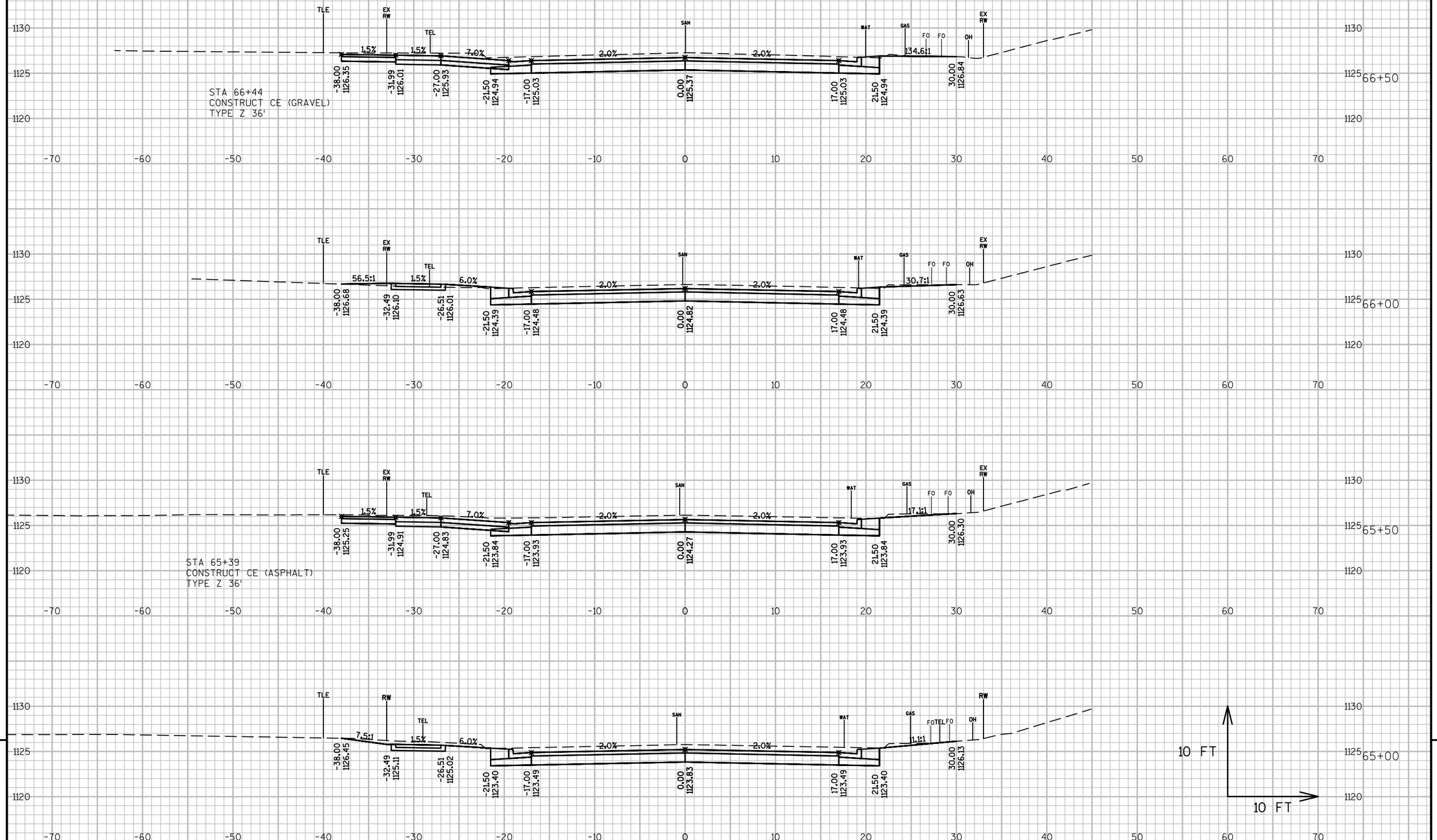
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PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: E SOUTH STREET	SHEET 166	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-SOUTHST.DWG
LAYOUT NAME - 0903 (3)

PLOT DATE : 10/16/2017 11:40 AM PLOT BY : HEDRINGTON, MARK PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



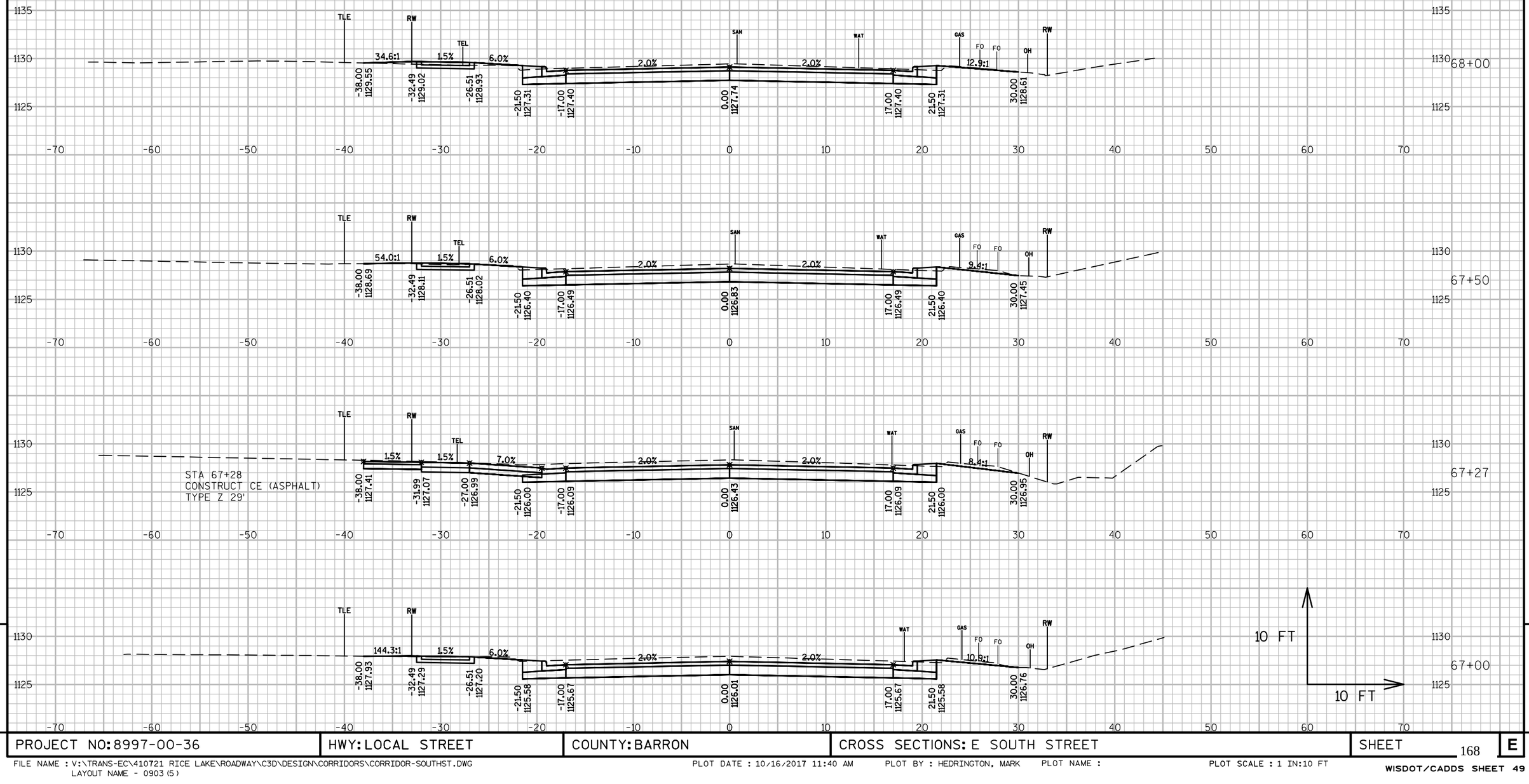
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9

PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: E SOUTH STREET	SHEET 167	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-SOUTHST.DWG
LAYOUT NAME - 0903(4)

PLOT DATE : 10/16/2017 11:40 AM PLOT BY : HEDRINGTON, MARK PLOT NAME : PLOT SCALE : 1 IN:10 FT



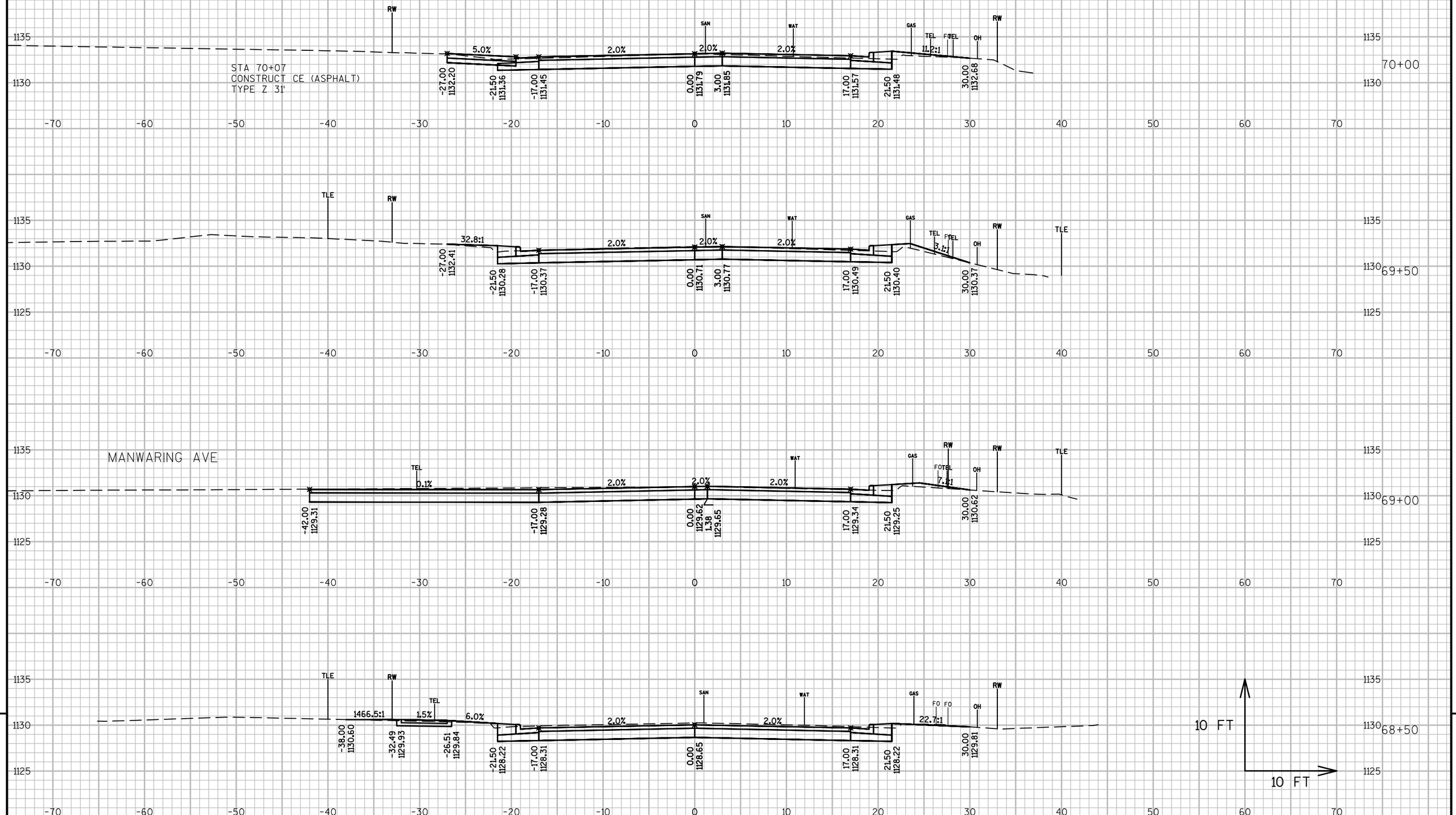
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PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: E SOUTH STREET	SHEET 168	E

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LAYOUT NAME - 0903 (5)

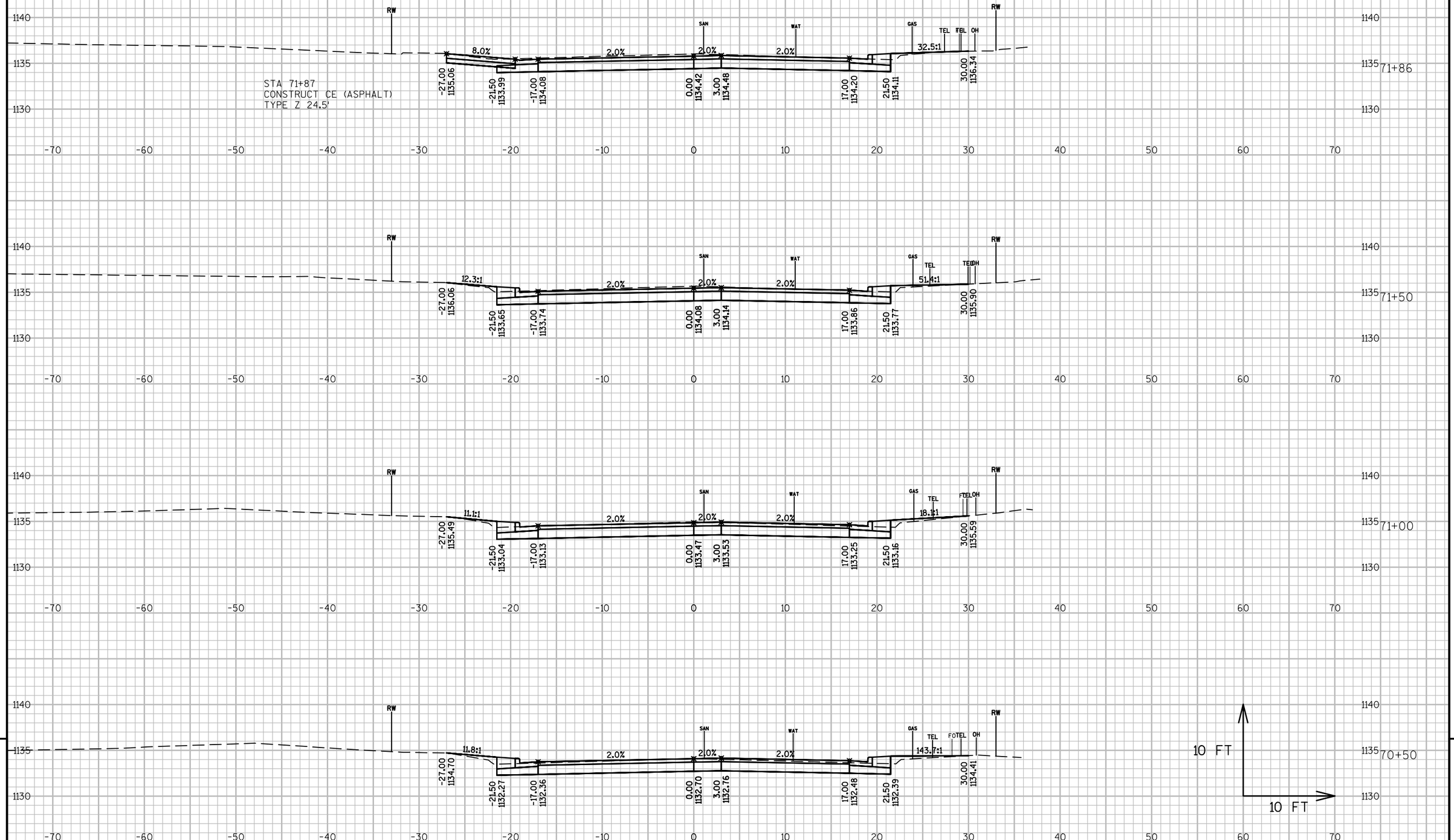
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PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: E SOUTH STREET	SHEET 169	E



9

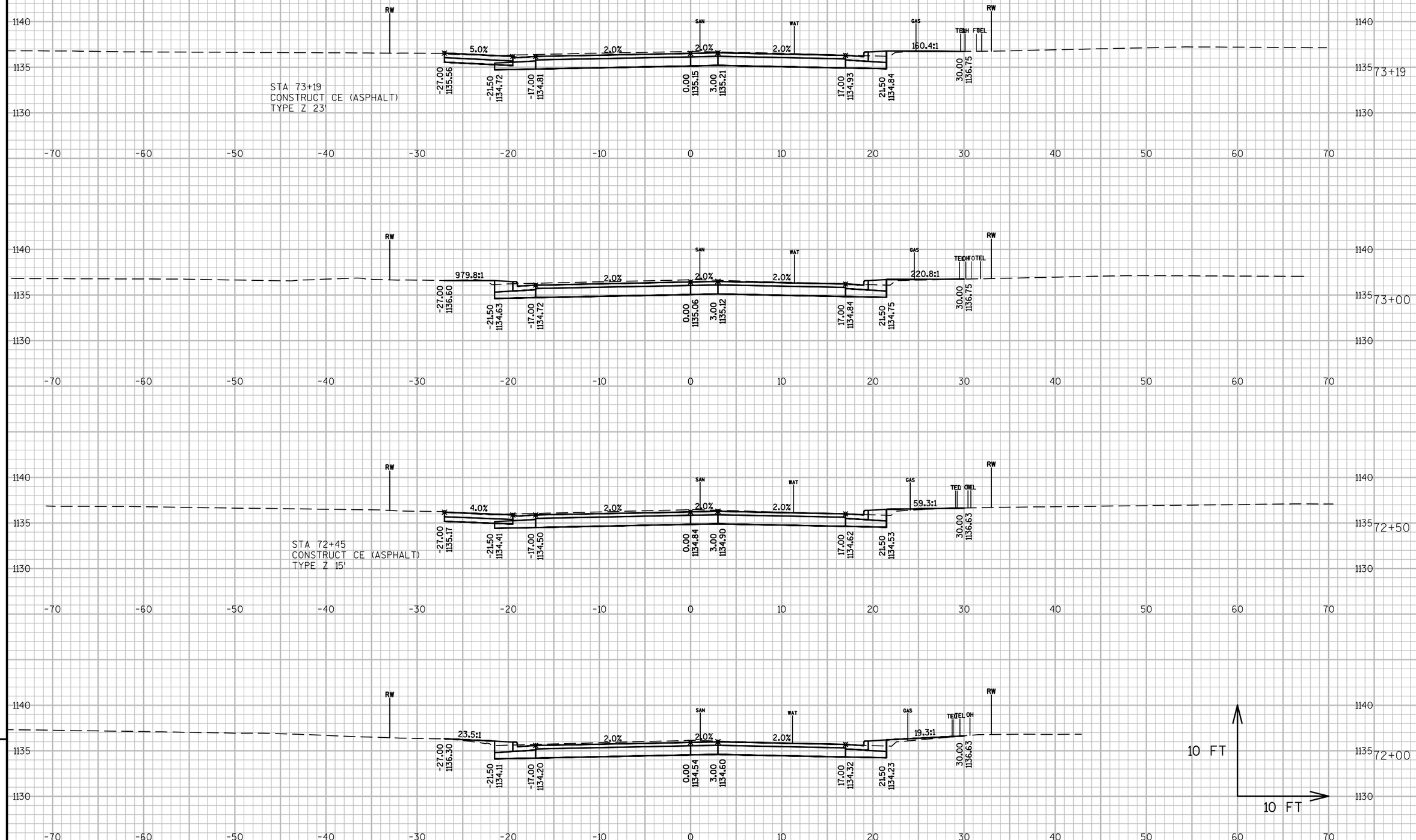
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PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: E SOUTH STREET	SHEET 170	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-SOUTHST.DWG
LAYOUT NAME - 0903 (7)

PLOT DATE : 10/16/2017 11:41 AM PLOT BY : HEDRINGTON, MARK PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

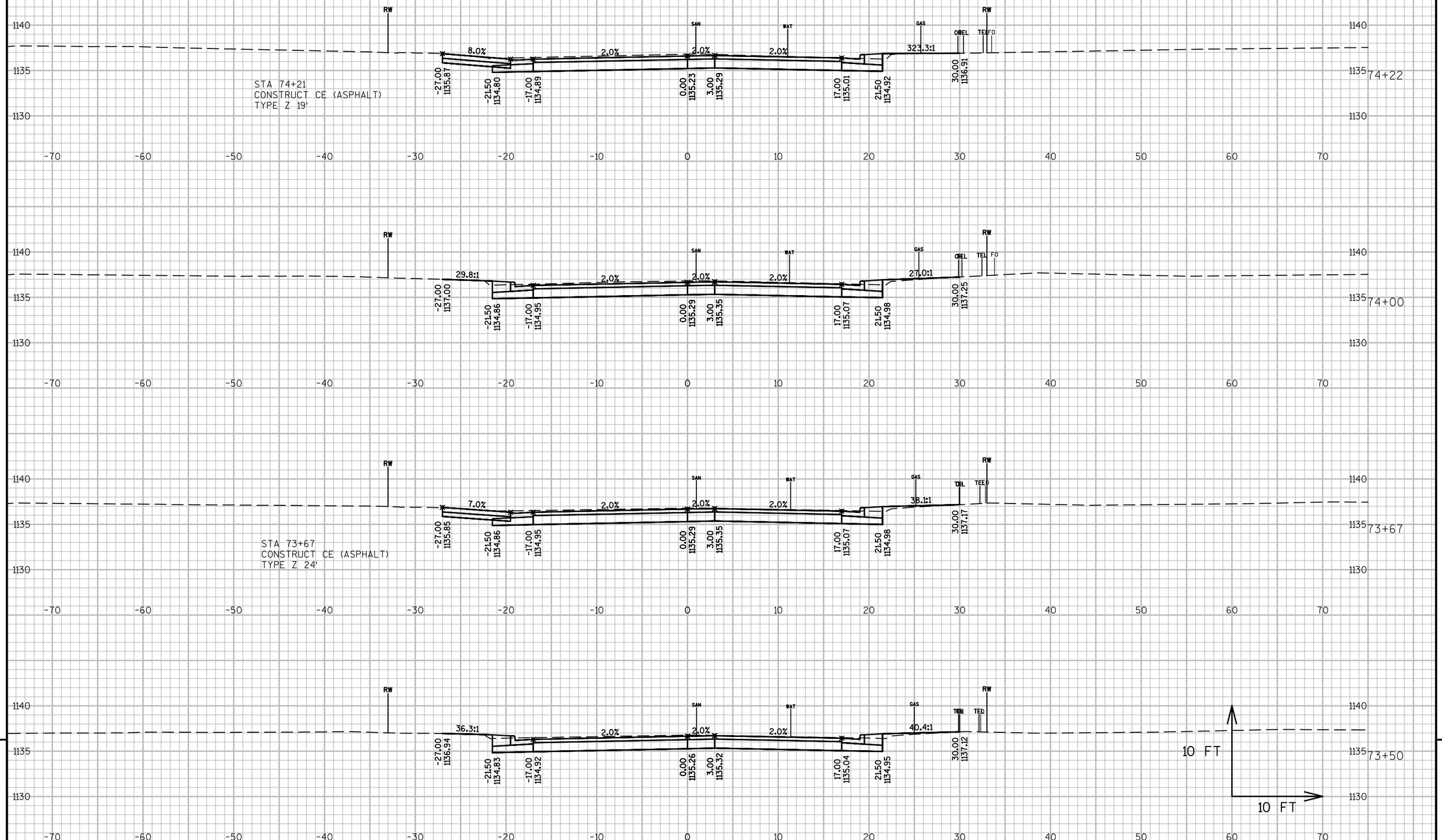
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PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: E SOUTH STREET	SHEET 171	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-SOUTHST.DWG
LAYOUT NAME - 0903 (8)

PLOT DATE : 10/16/2017 11:41 AM PLOT BY : HEDRINGTON, MARK PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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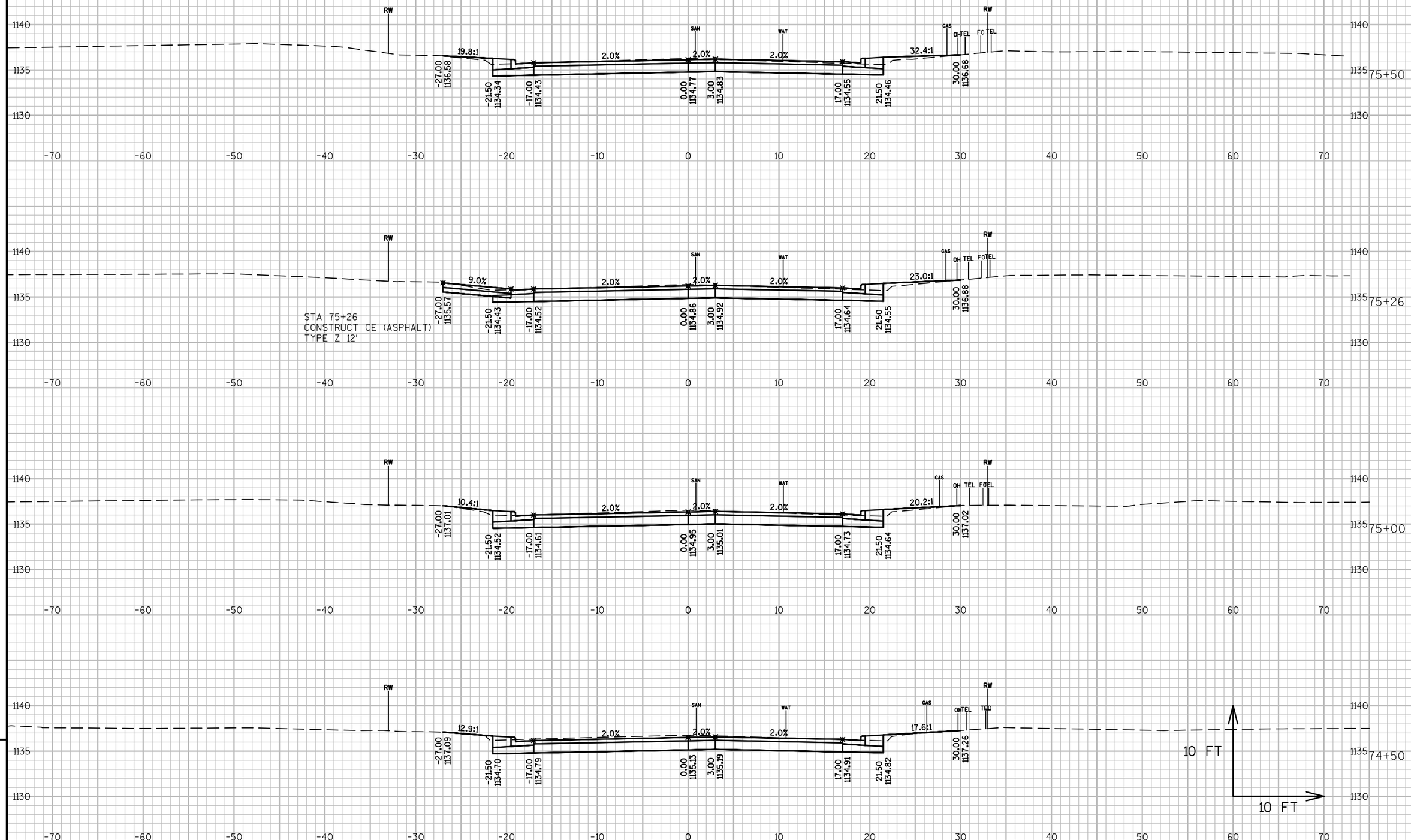
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PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: E SOUTH STREET	SHEET 172	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-SOUTHST.DWG
LAYOUT NAME - 0903 (9)

PLOT DATE : 10/16/2017 11:41 AM PLOT BY : HEDRINGTON, MARK PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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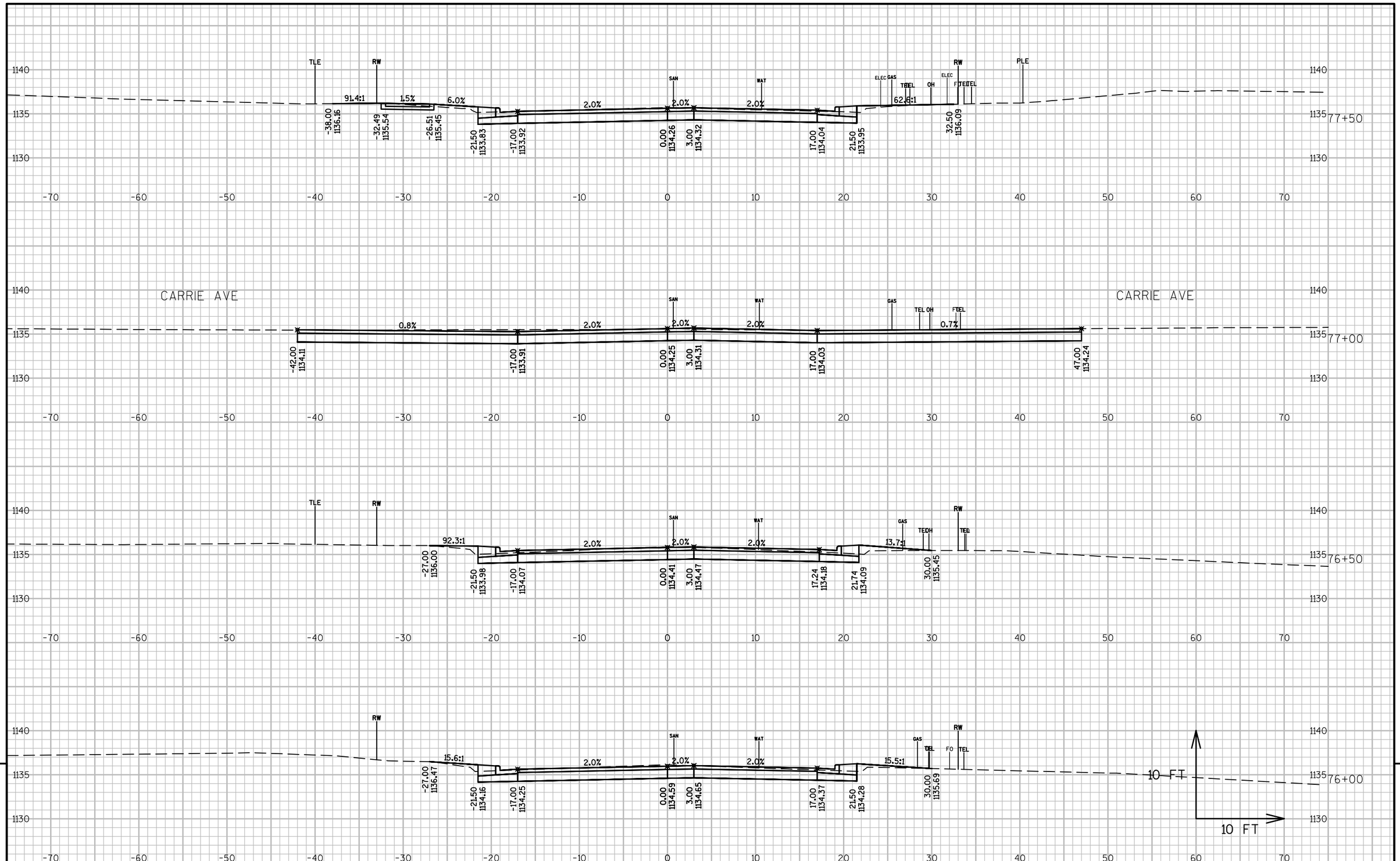
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PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: E SOUTH STREET	SHEET 173	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-SOUTHST.DWG
LAYOUT NAME - 0903 (10)

PLOT DATE : 10/16/2017 11:41 AM PLOT BY : HEDRINGTON, MARK PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

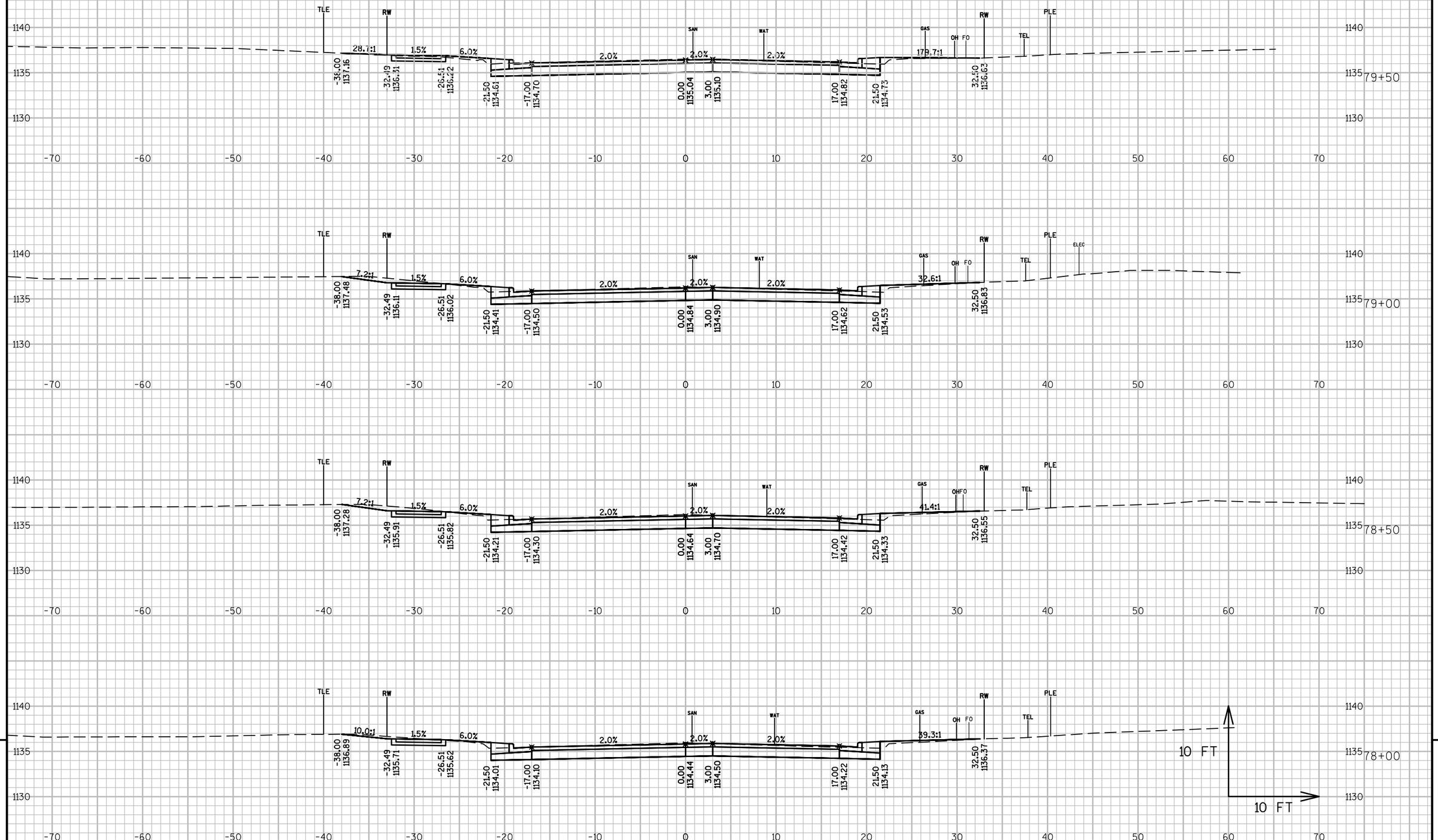


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PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: E SOUTH STREET	SHEET 174	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-SOUTHST.DWG
LAYOUT NAME - 0903 (11)
PLOT DATE : 10/16/2017 11:41 AM PLOT BY : HEDRINGTON, MARK PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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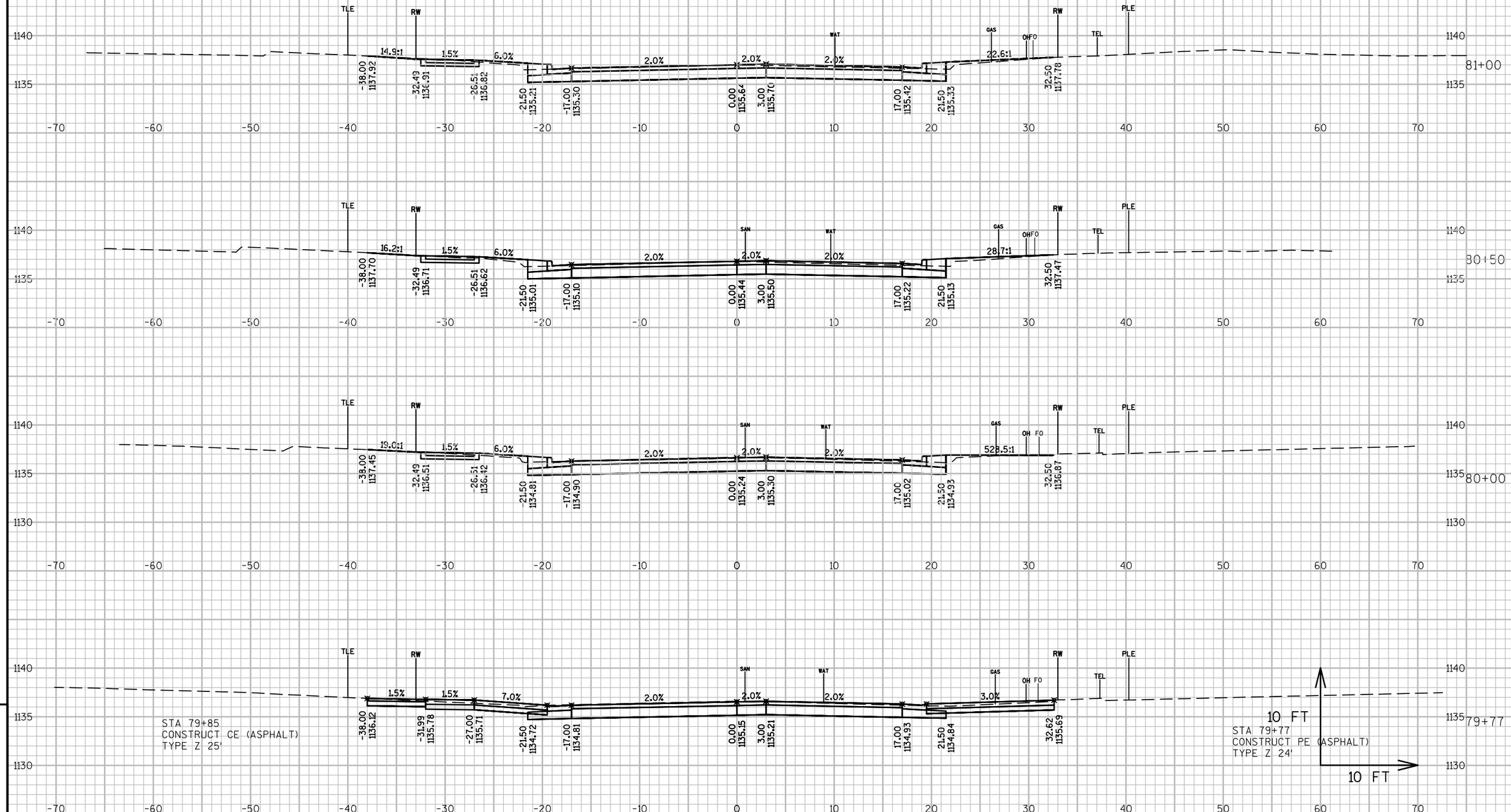
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PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: E SOUTH STREET	SHEET 175	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-SOUTHST.DWG
LAYOUT NAME - 0903 (12)

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WISDOT/CADDS SHEET 49



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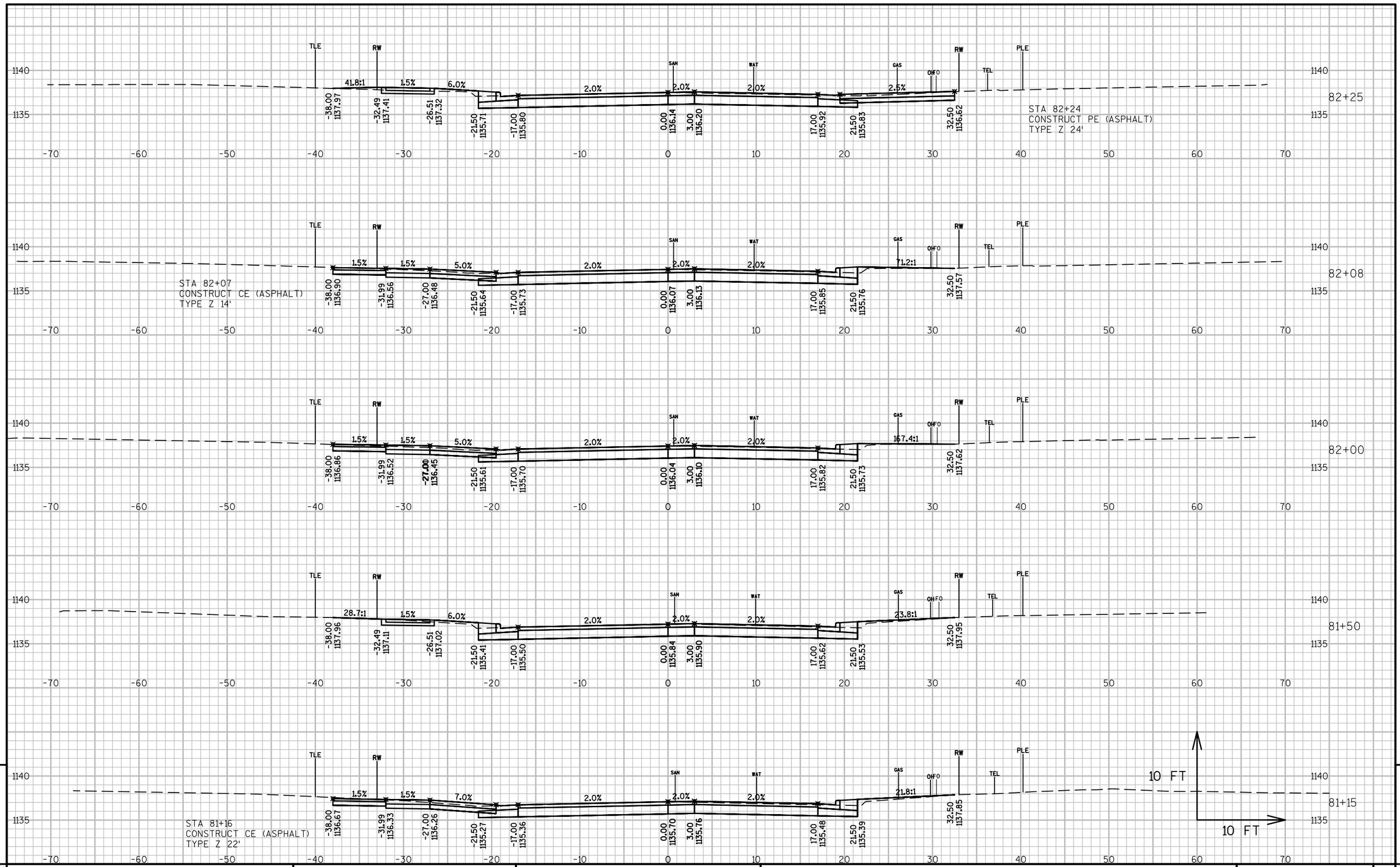
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PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: E SOUTH STREET	SHEET 176	E

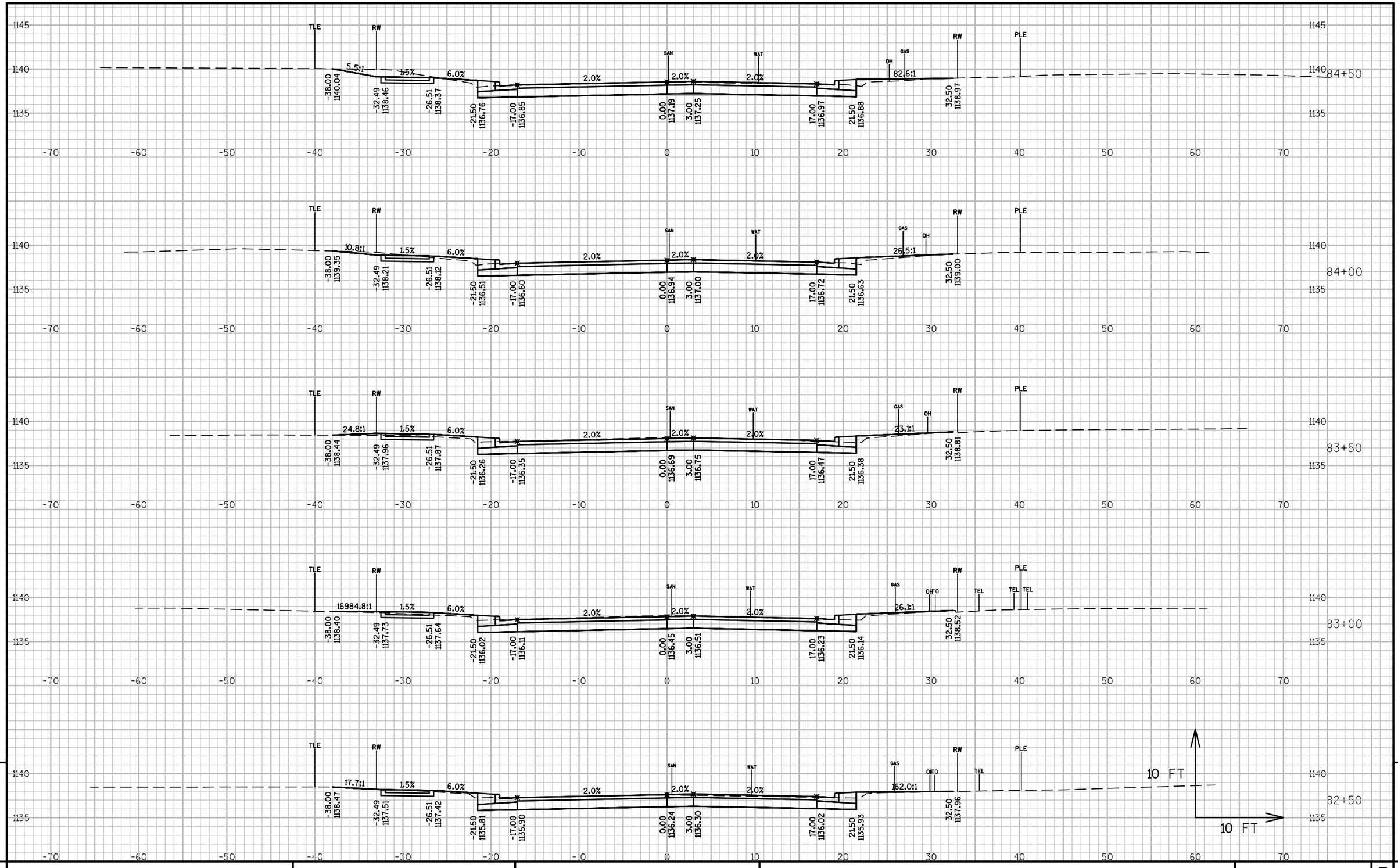
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LAYOUT NAME - 0903(13)

PLOT DATE : 10/16/2017 11:41 AM PLOT BY : HEDRINGTON, MARK PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: E SOUTH STREET	SHEET 177	E



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PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: E SOUTH STREET	SHEET 178	E

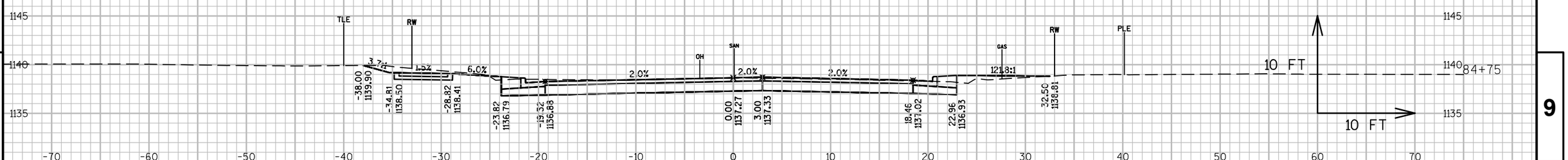
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LAYOUT NAME - 0903 (15)

PLOT DATE : 10/16/2017 11:41 AM PLOT BY : HEDRINGTON, MARK PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

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END PROJECT
ID 8997-00-36
STA 84+94.38



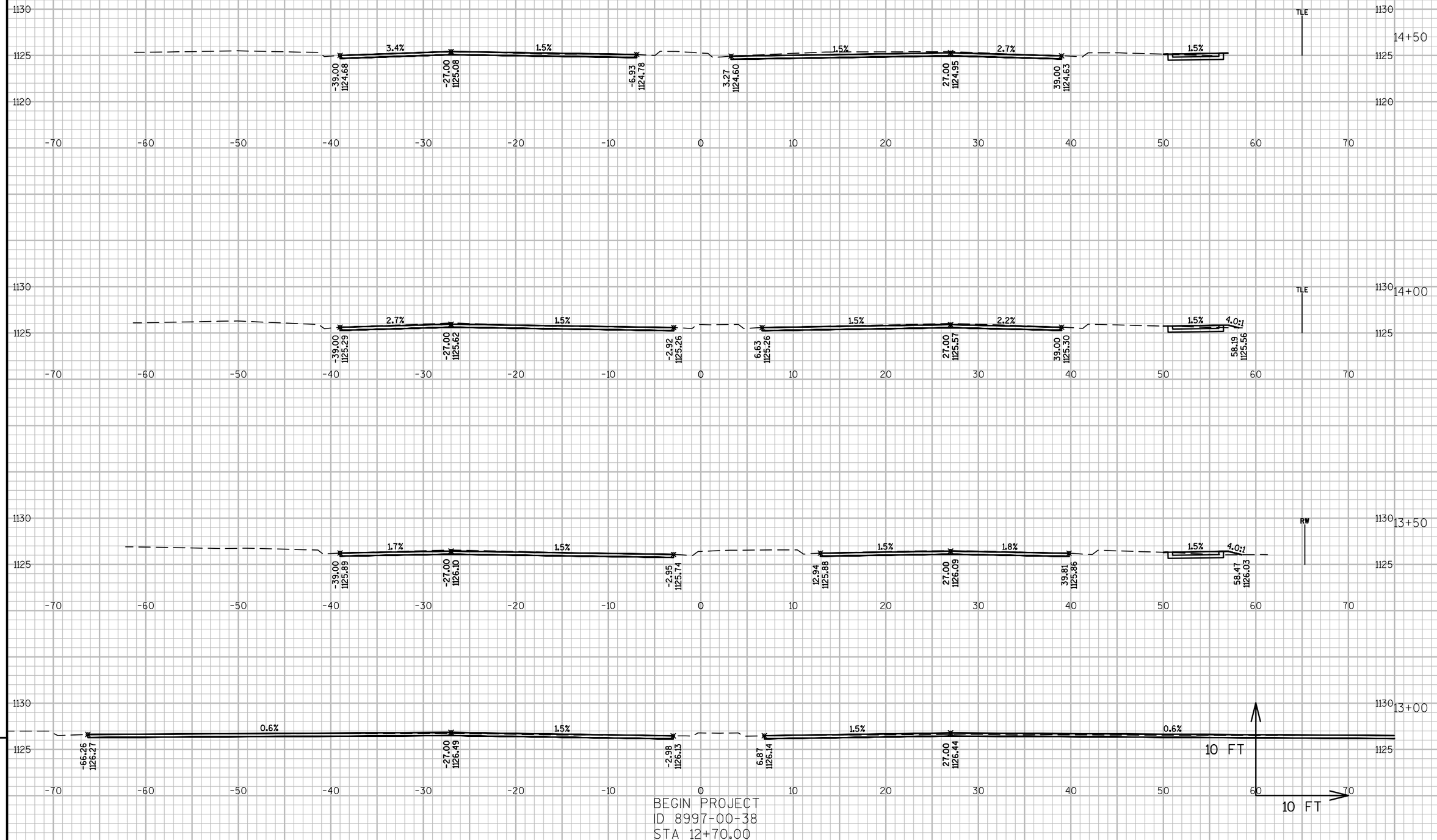
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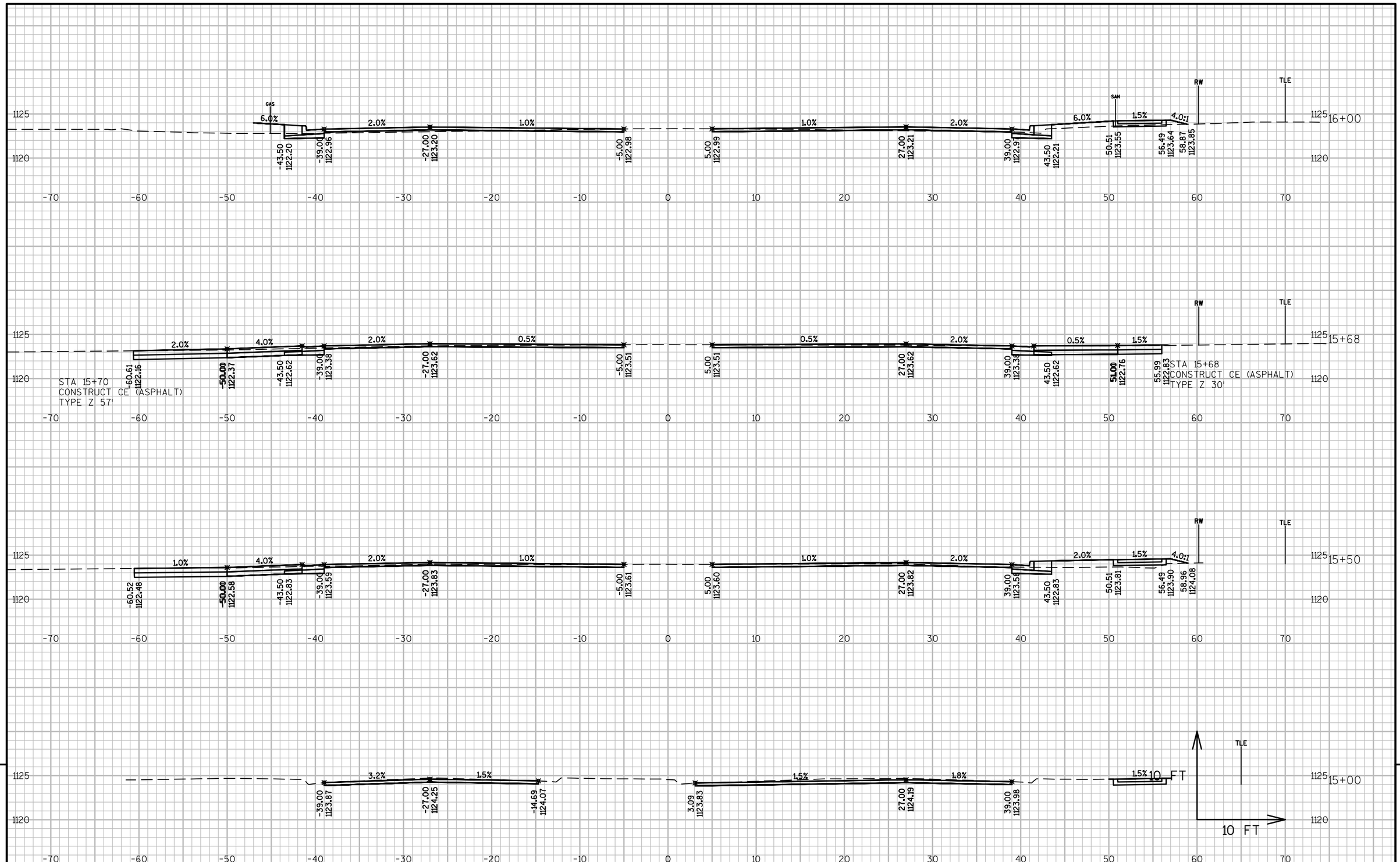
PROJECT NO: 8997-00-36	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: E SOUTH STREET	SHEET 179	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-SOUTHST.DWG
LAYOUT NAME - 0903 (16)

PLOT DATE : 10/16/2017 11:41 AM PLOT BY : HEDRINGTON, MARK PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 180	E

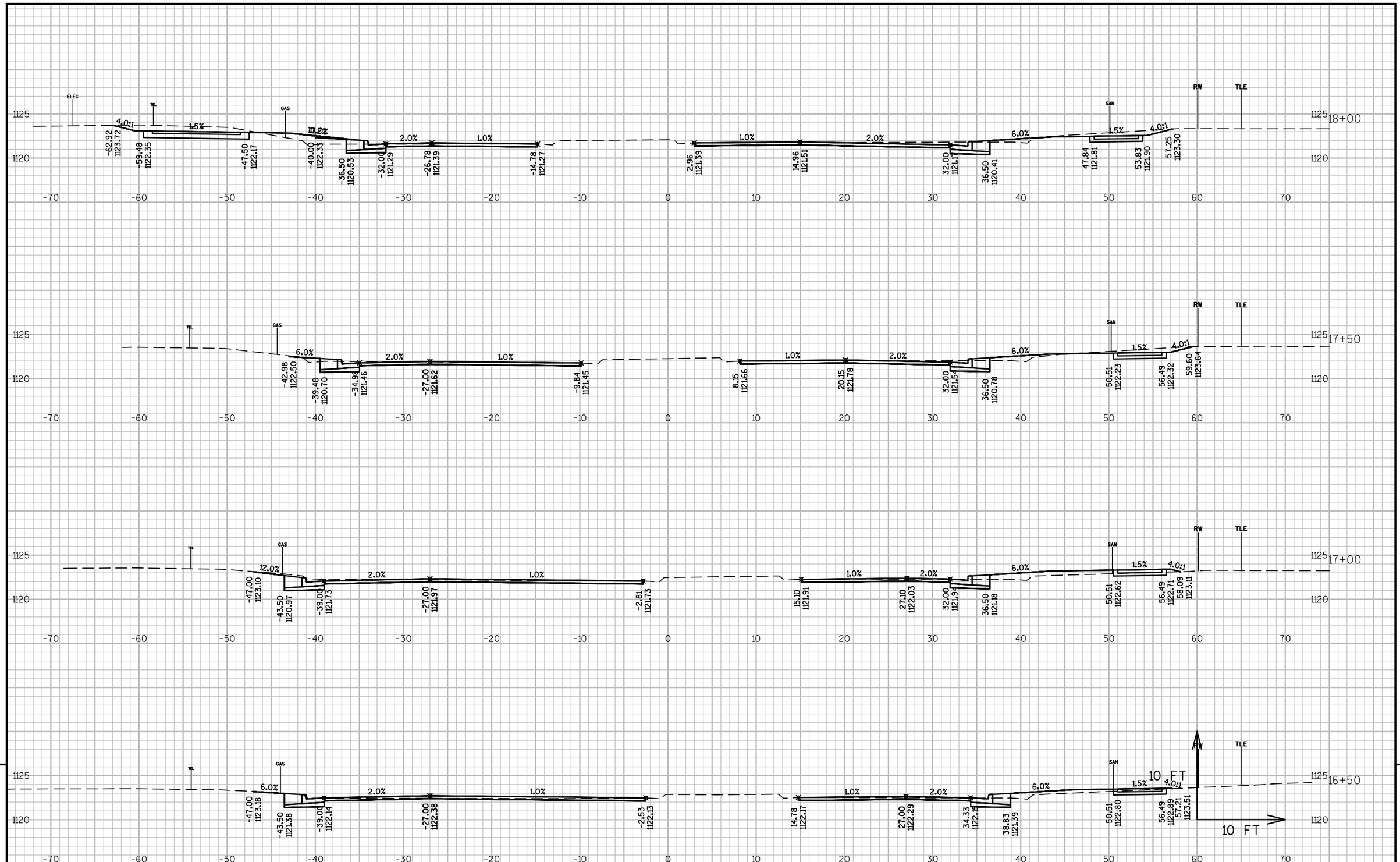


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PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 181	E

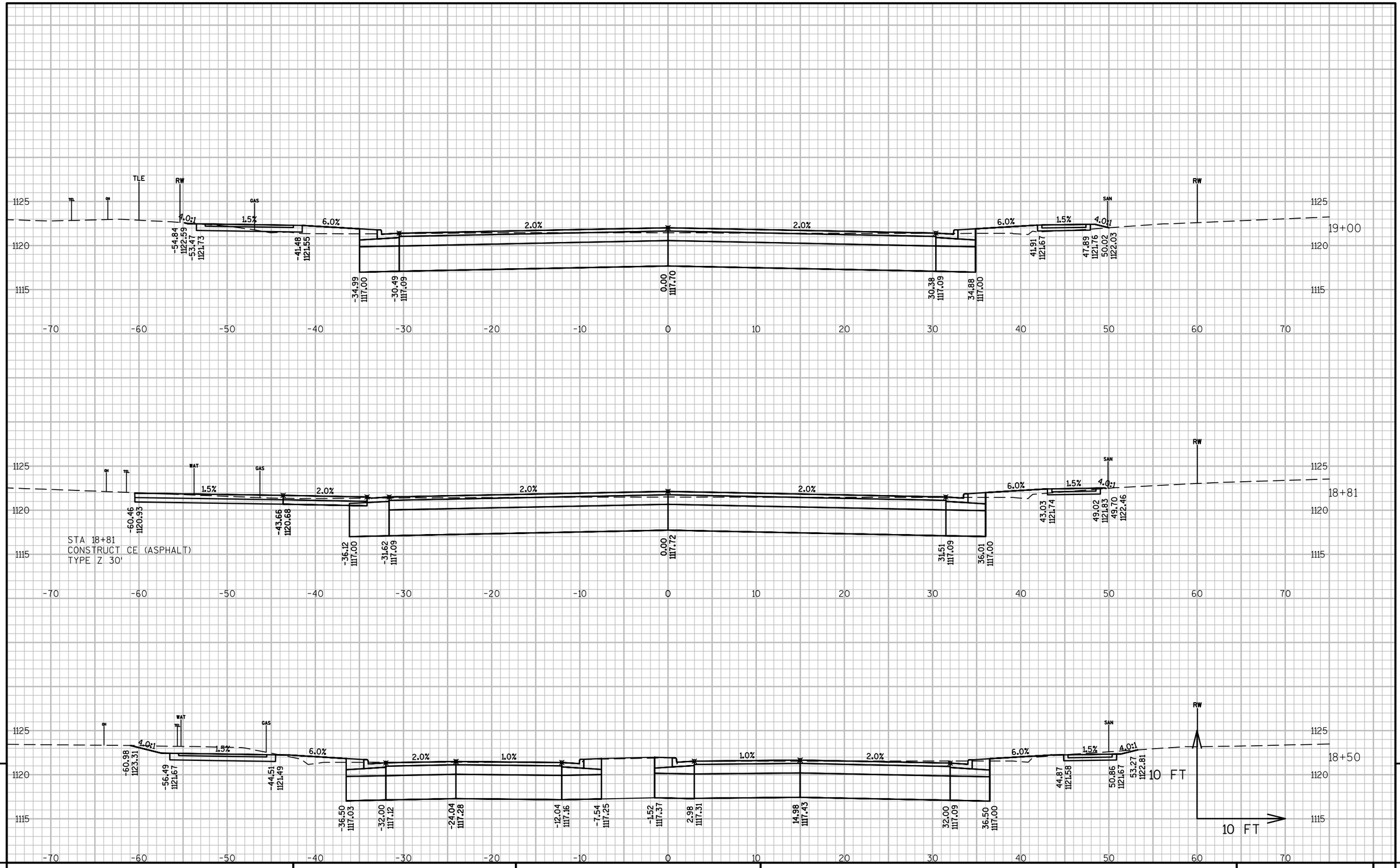
FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-KERNAVE.DWG
LAYOUT NAME - 0902 (2)
PLOT DATE : 10/19/2017 10:39 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 182	E

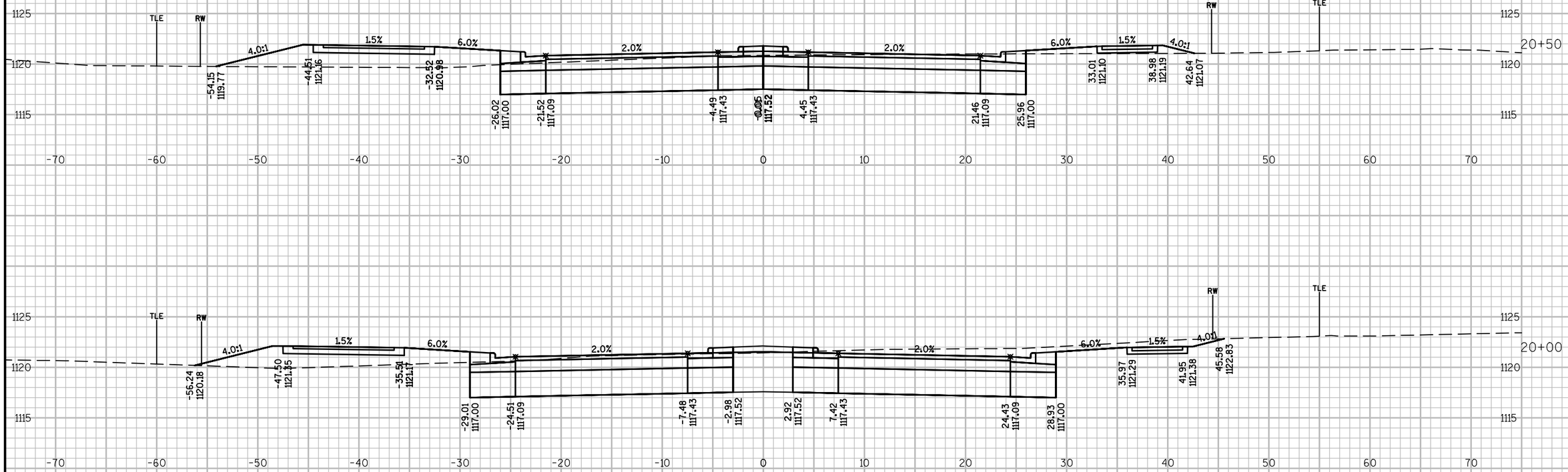


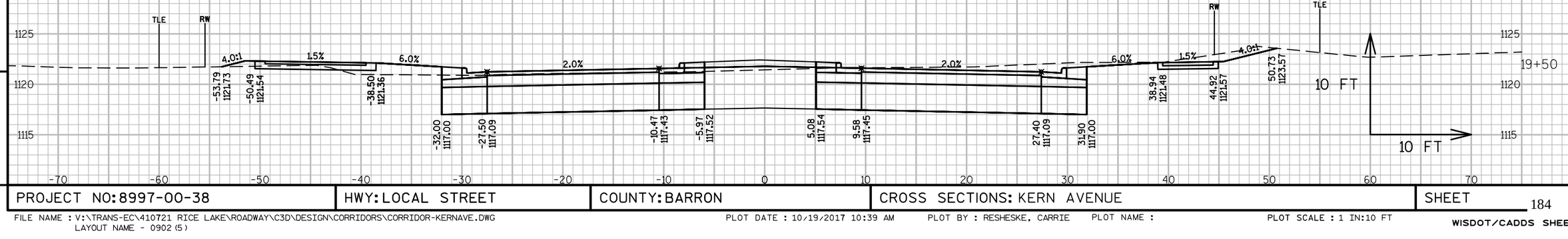
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FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-KERNAVE.DWG
LAYOUT NAME - 0902 (4)

PLOT DATE : 10/19/2017 10:39 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49





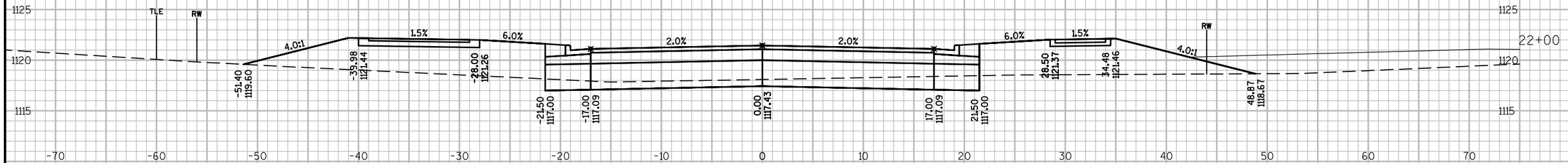
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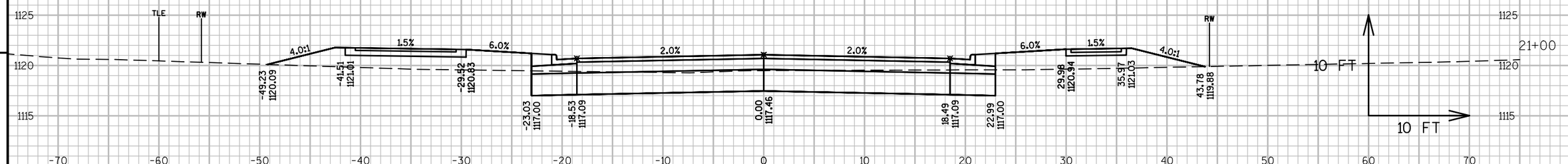
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FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-KERNAVE.DWG
LAYOUT NAME - 0902 (5)

PLOT DATE : 10/19/2017 10:39 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT







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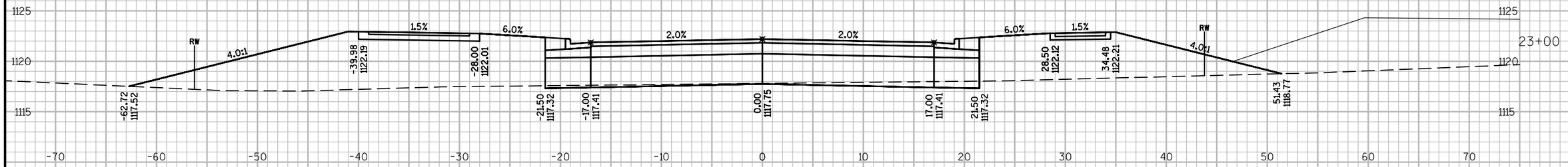
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PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 185	E

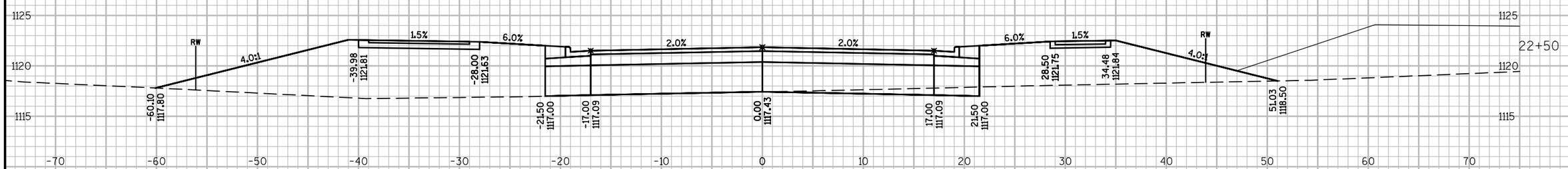
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LAYOUT NAME - 0902 (6)

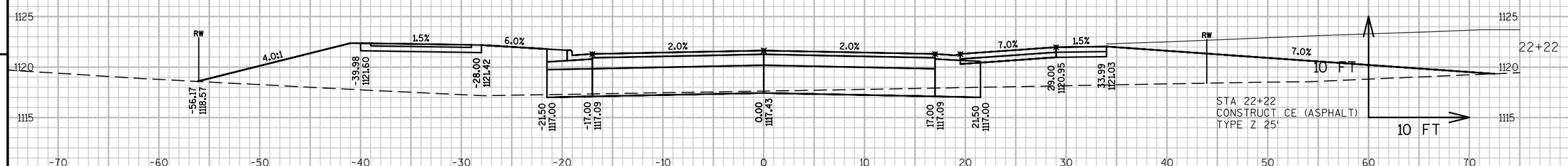
PLOT DATE : 10/19/2017 10:40 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



MATCH EXISTING FILL FOR
ADJACENT DEVELOPMENT





9

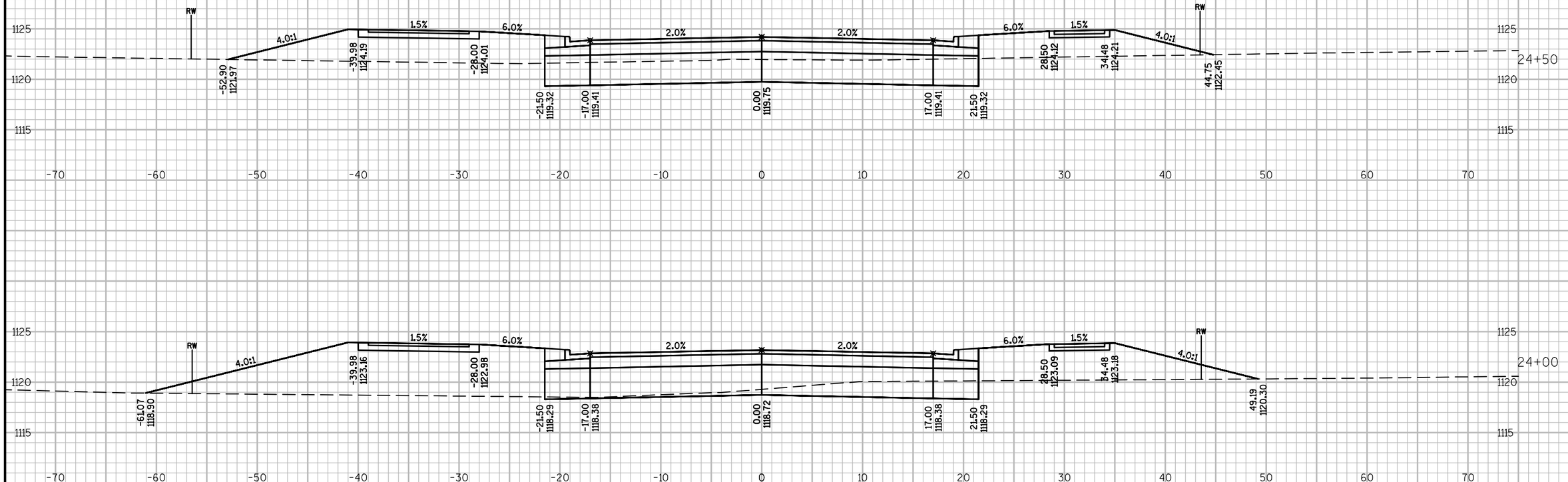
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PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 186	E

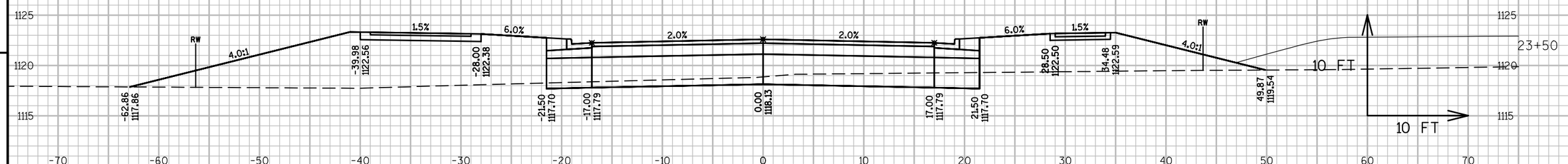
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LAYOUT NAME - 0902 (7)

PLOT DATE : 10/19/2017 10:40 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



MATCH EXISTING FILL FOR
ADJACENT DEVELOPMENT



9

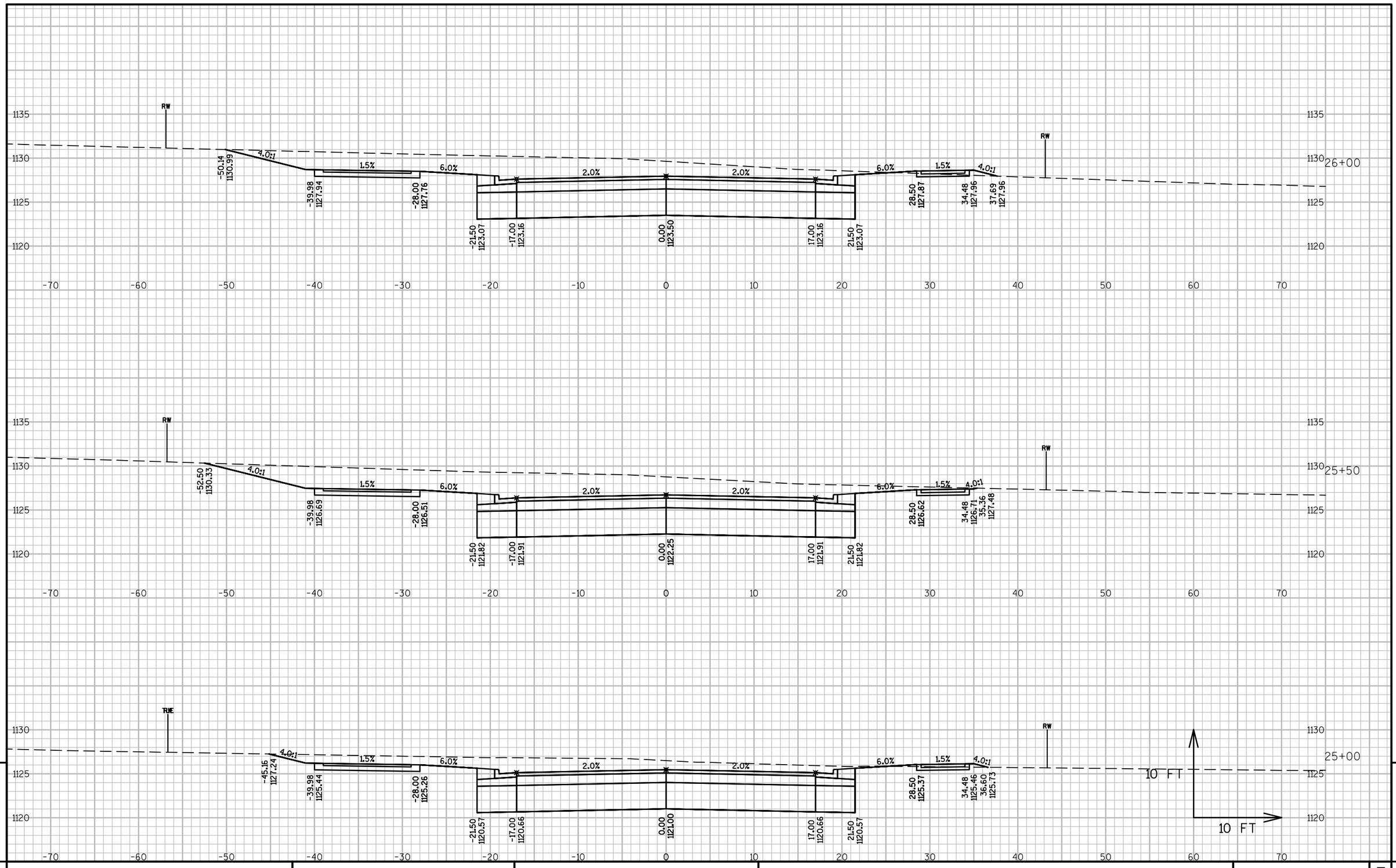
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PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 187	E

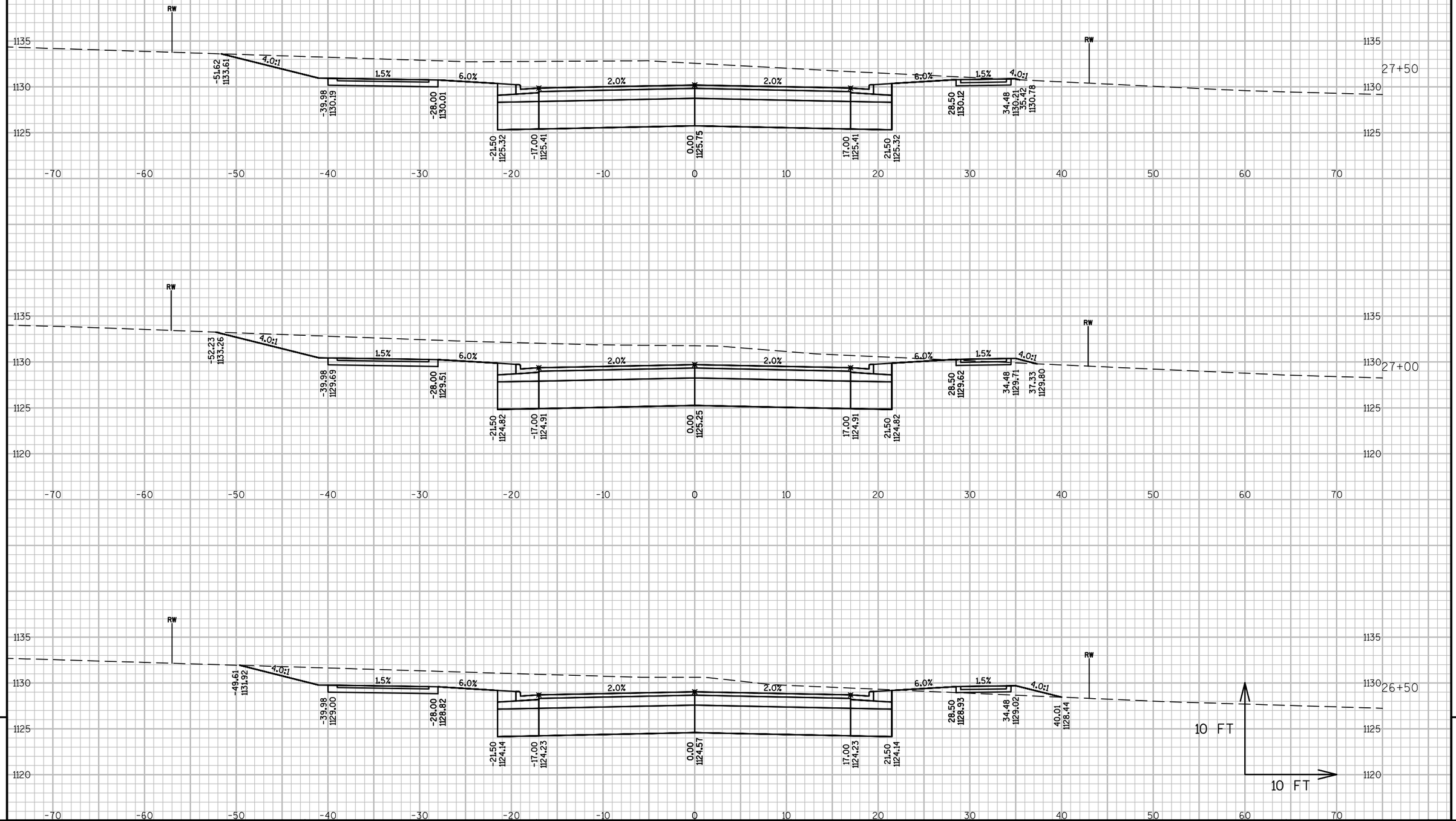
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LAYOUT NAME - 0902 (8)

PLOT DATE : 10/19/2017 10:40 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



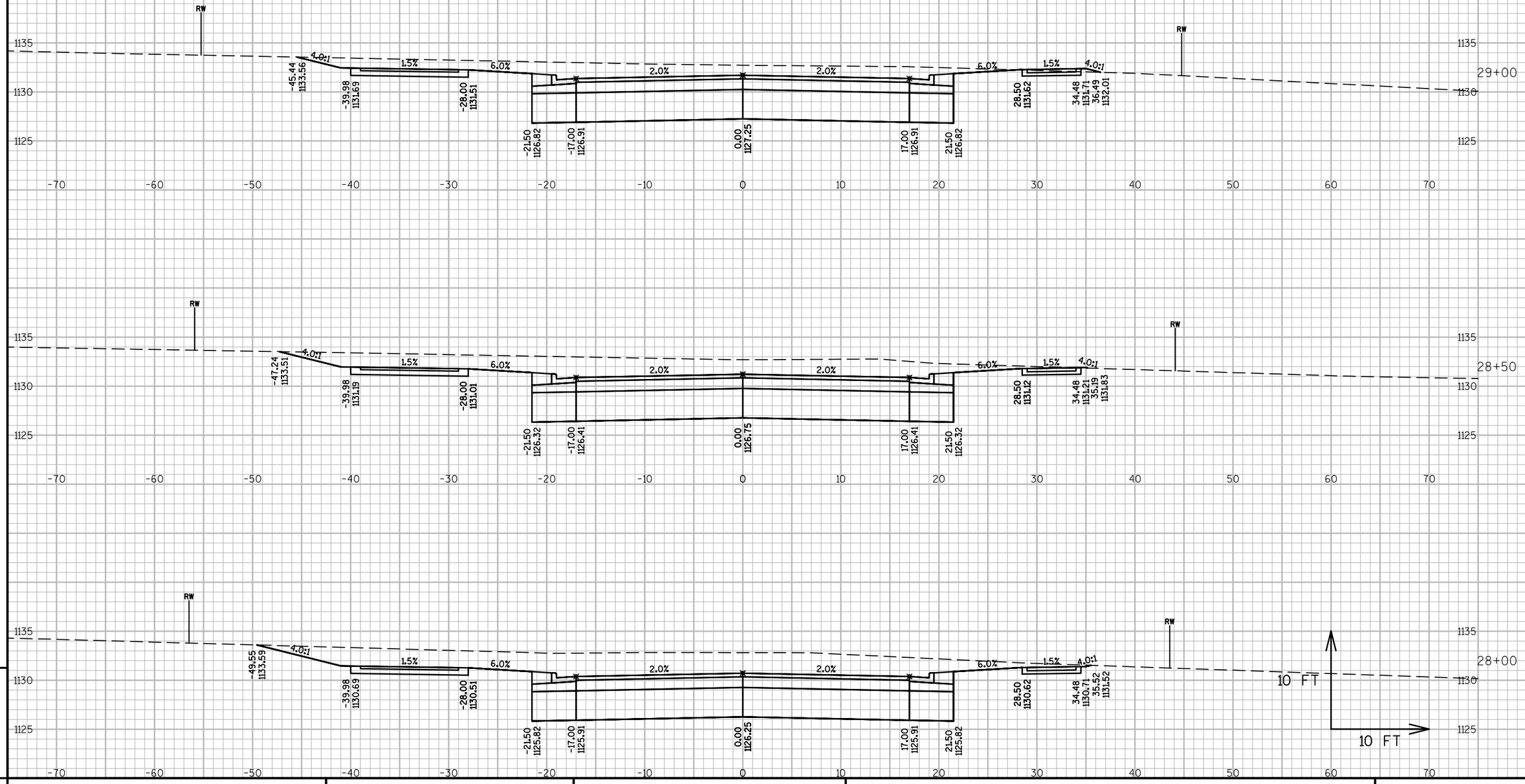
PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 188	E



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PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 189	E



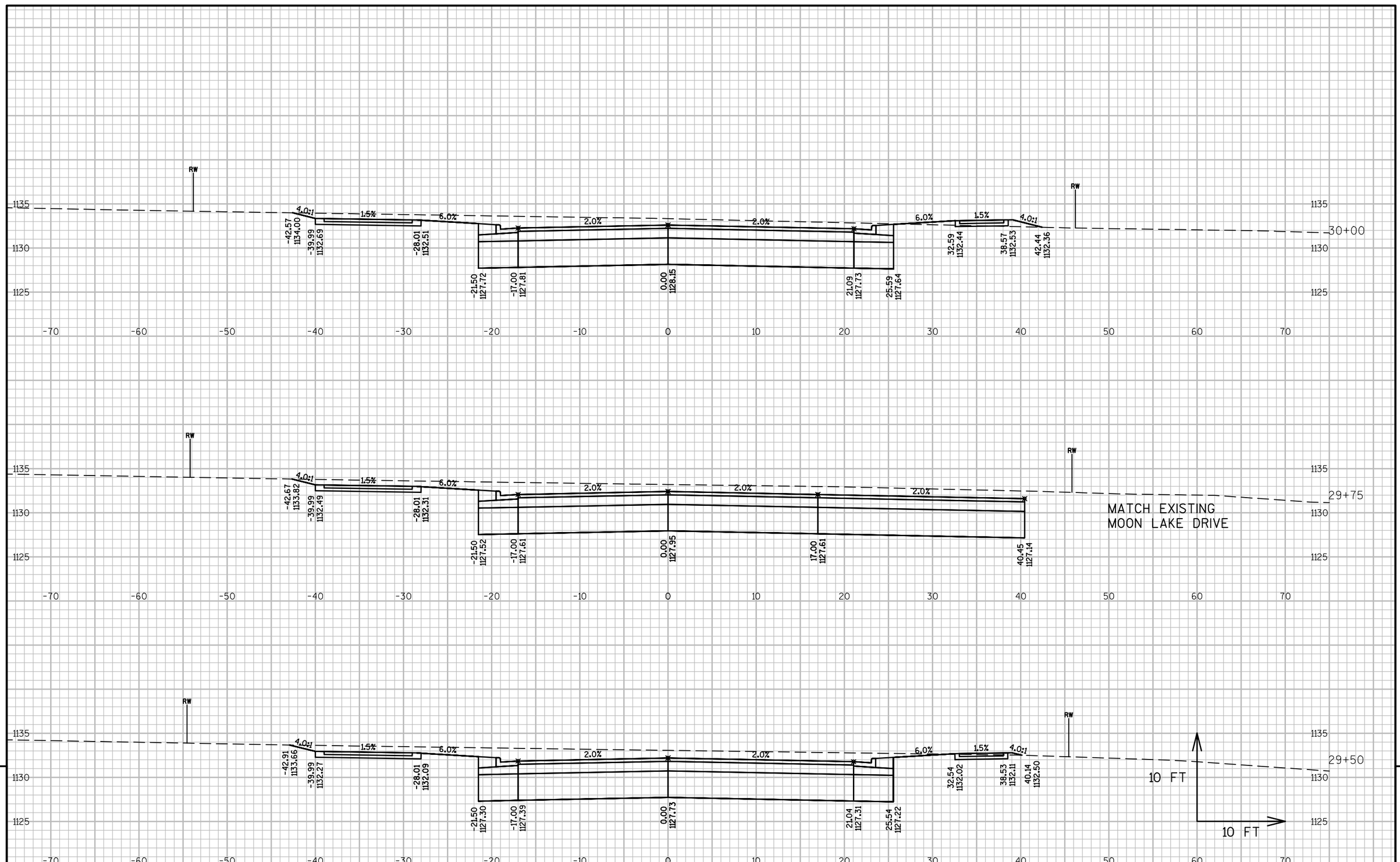
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PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 190	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-KERNAVE.DWG
LAYOUT NAME - 0902 (11)

PLOT DATE : 10/19/2017 10:40 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT



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PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 191	E

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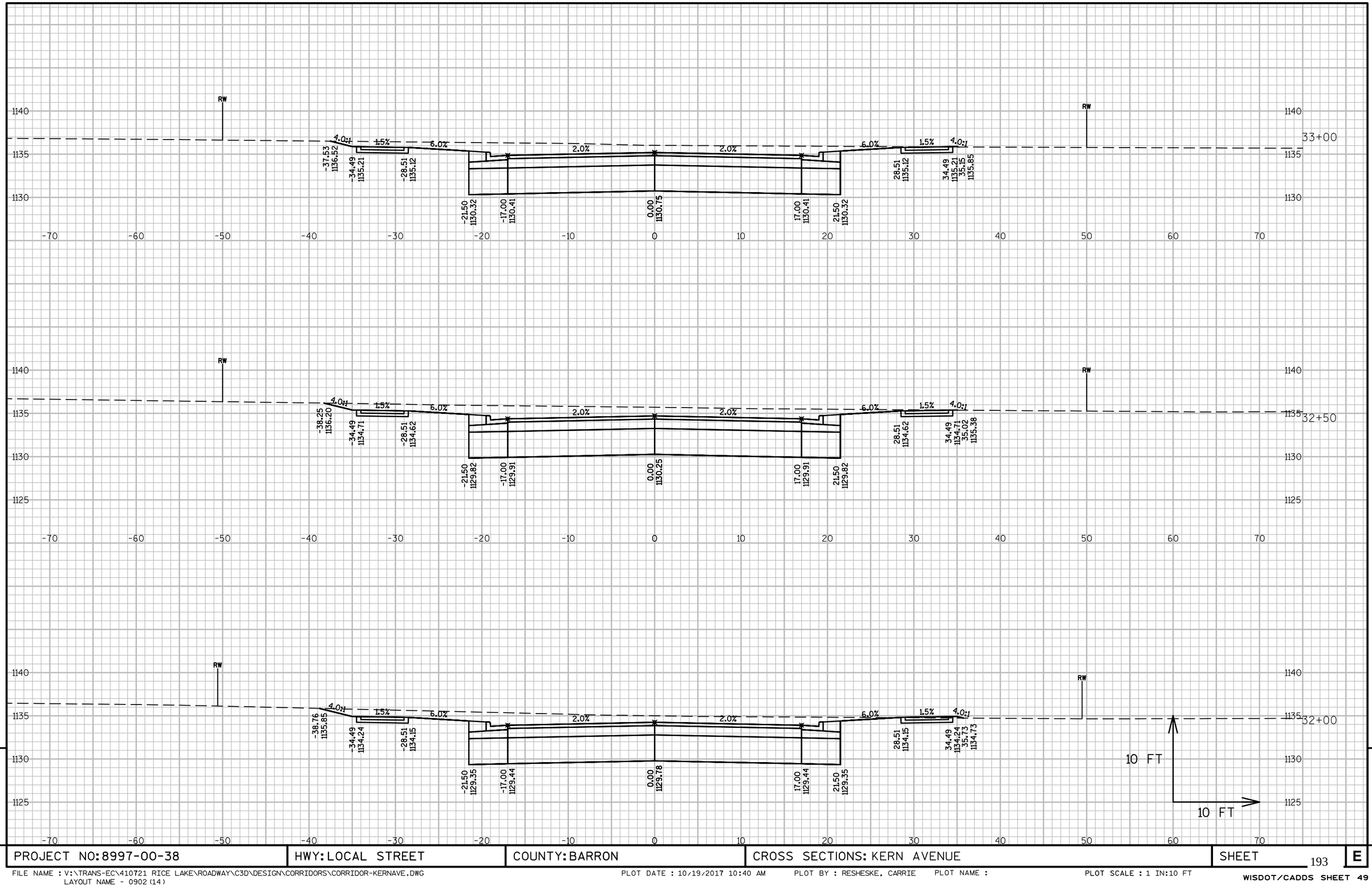
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PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 192	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-KERNAVE.DWG
LAYOUT NAME - 0902 (13)

PLOT DATE : 10/19/2017 10:40 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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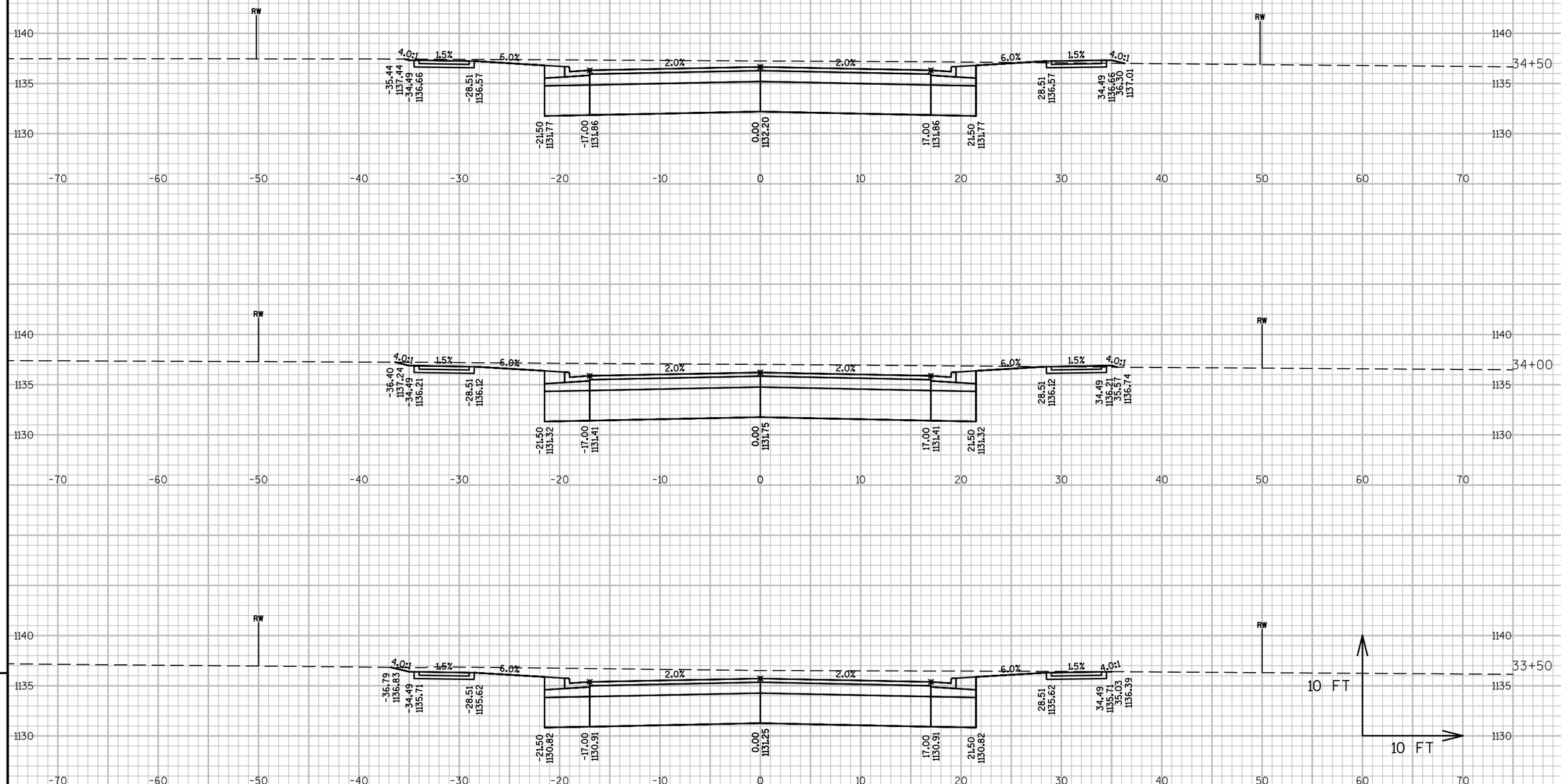
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PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 193	E

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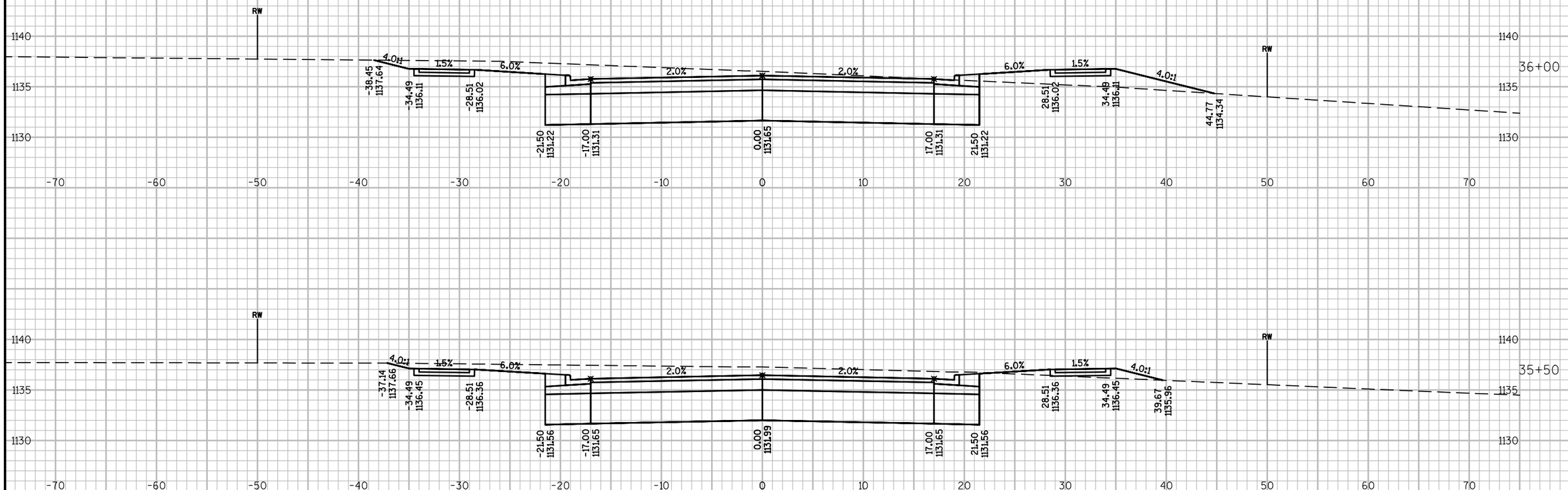
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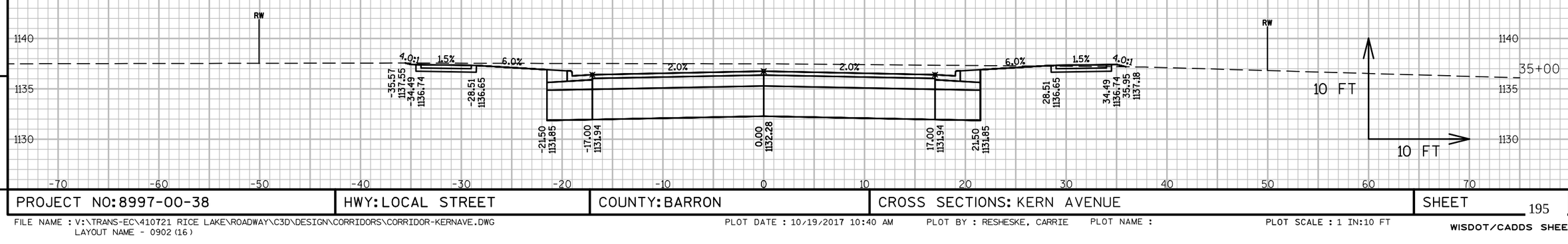
WISDOT/CADDS SHEET 49



9 9

PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 194	E





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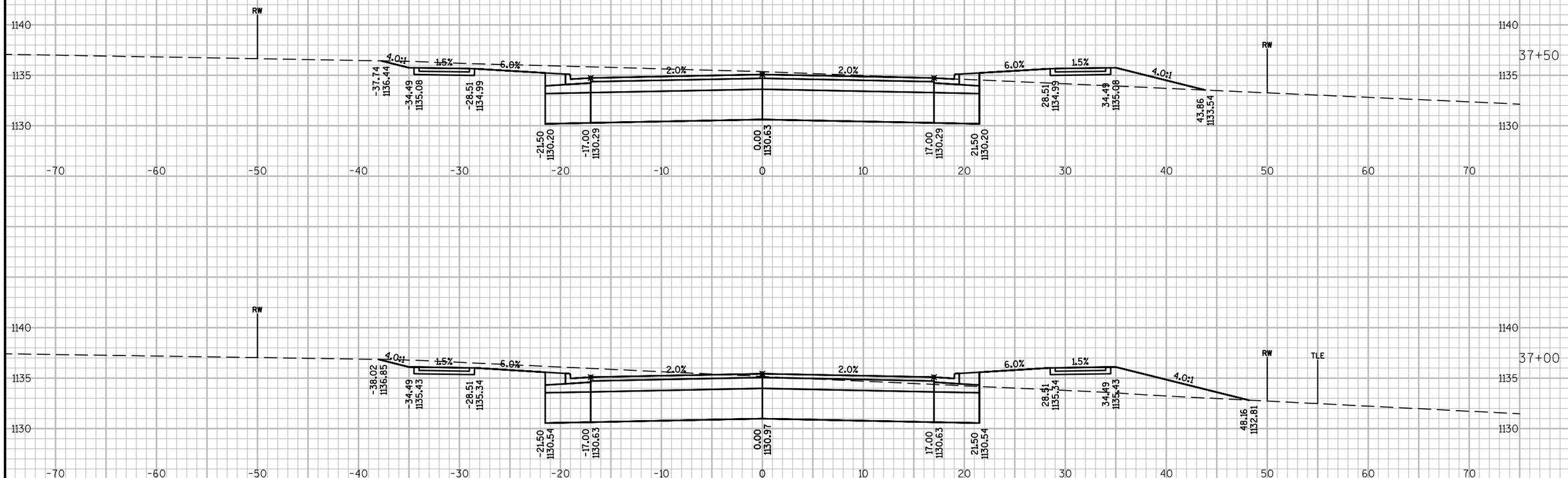
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PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 195	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-KERNAVE.DWG
LAYOUT NAME - 0902 (16)

PLOT DATE : 10/19/2017 10:40 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

9

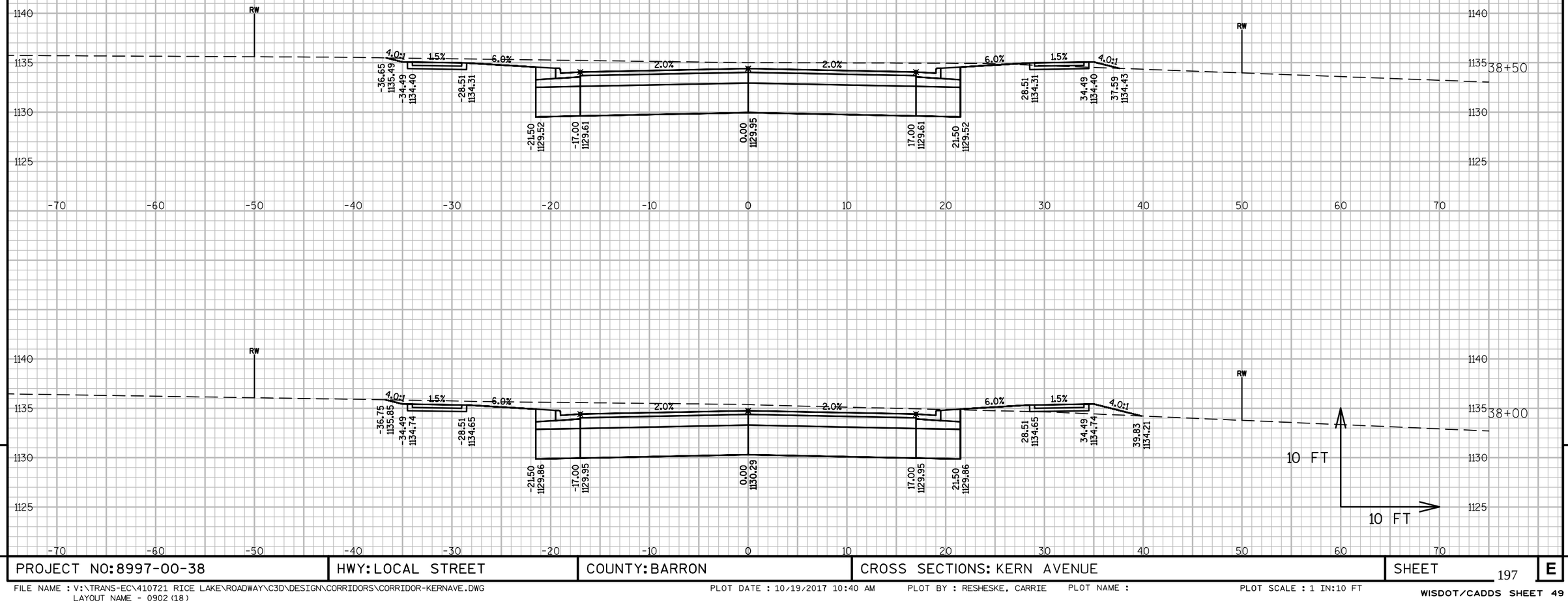
PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 196	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-KERNAVE.DWG
LAYOUT NAME - 0902 (17)

PLOT DATE : 10/19/2017 10:40 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49





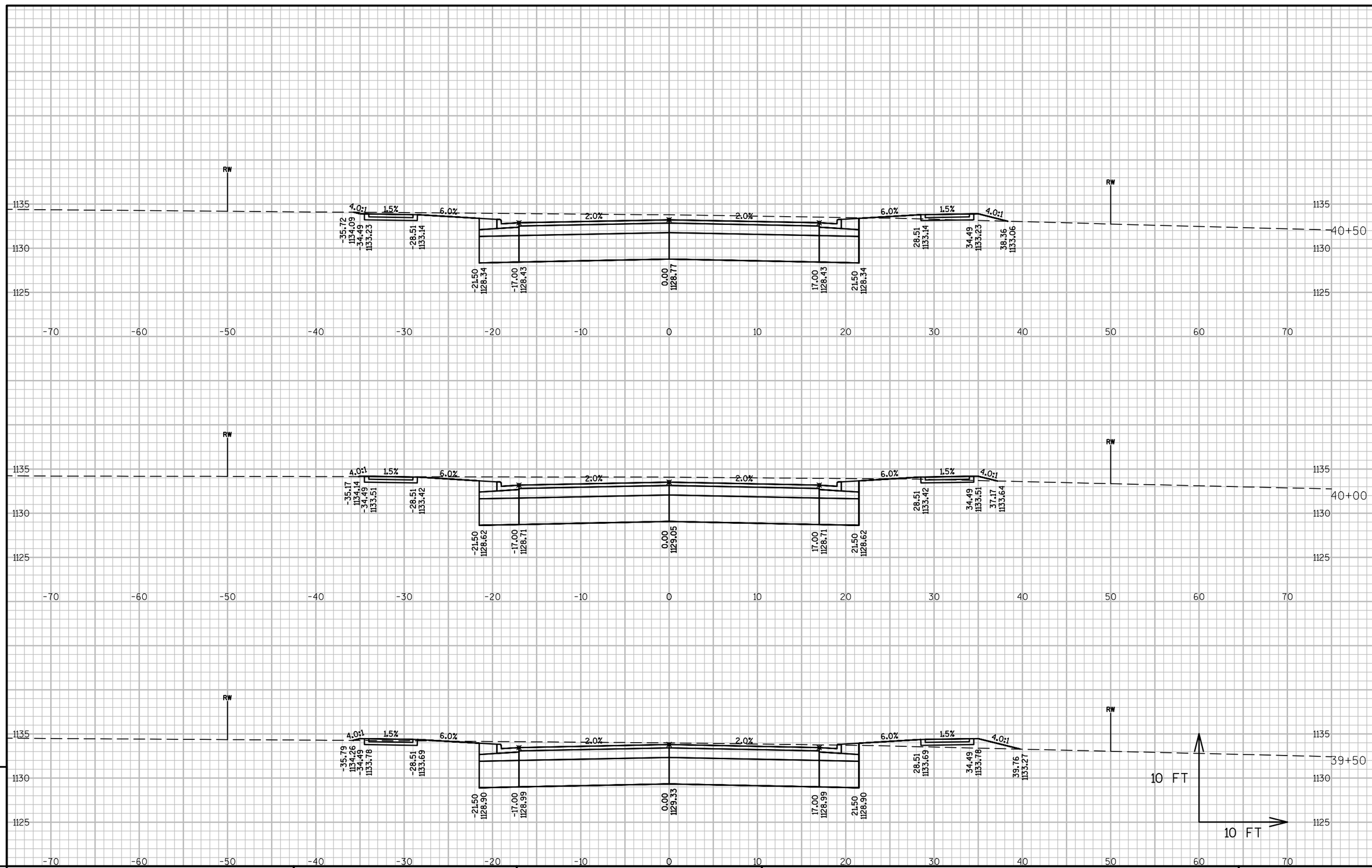
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PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 197	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-KERNAVE.DWG
LAYOUT NAME - 0902 (18)

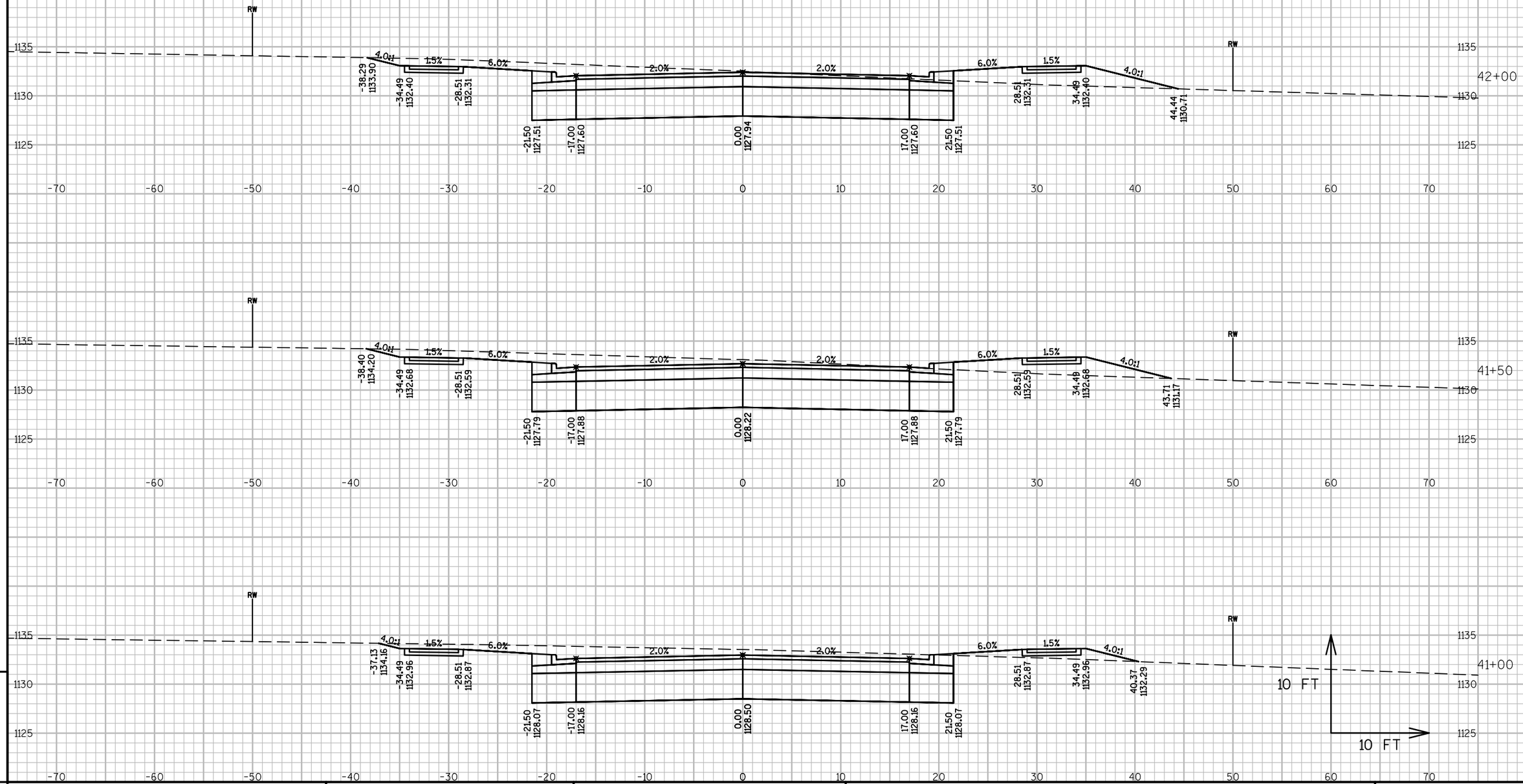
PLOT DATE : 10/19/2017 10:40 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT



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PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 198	E

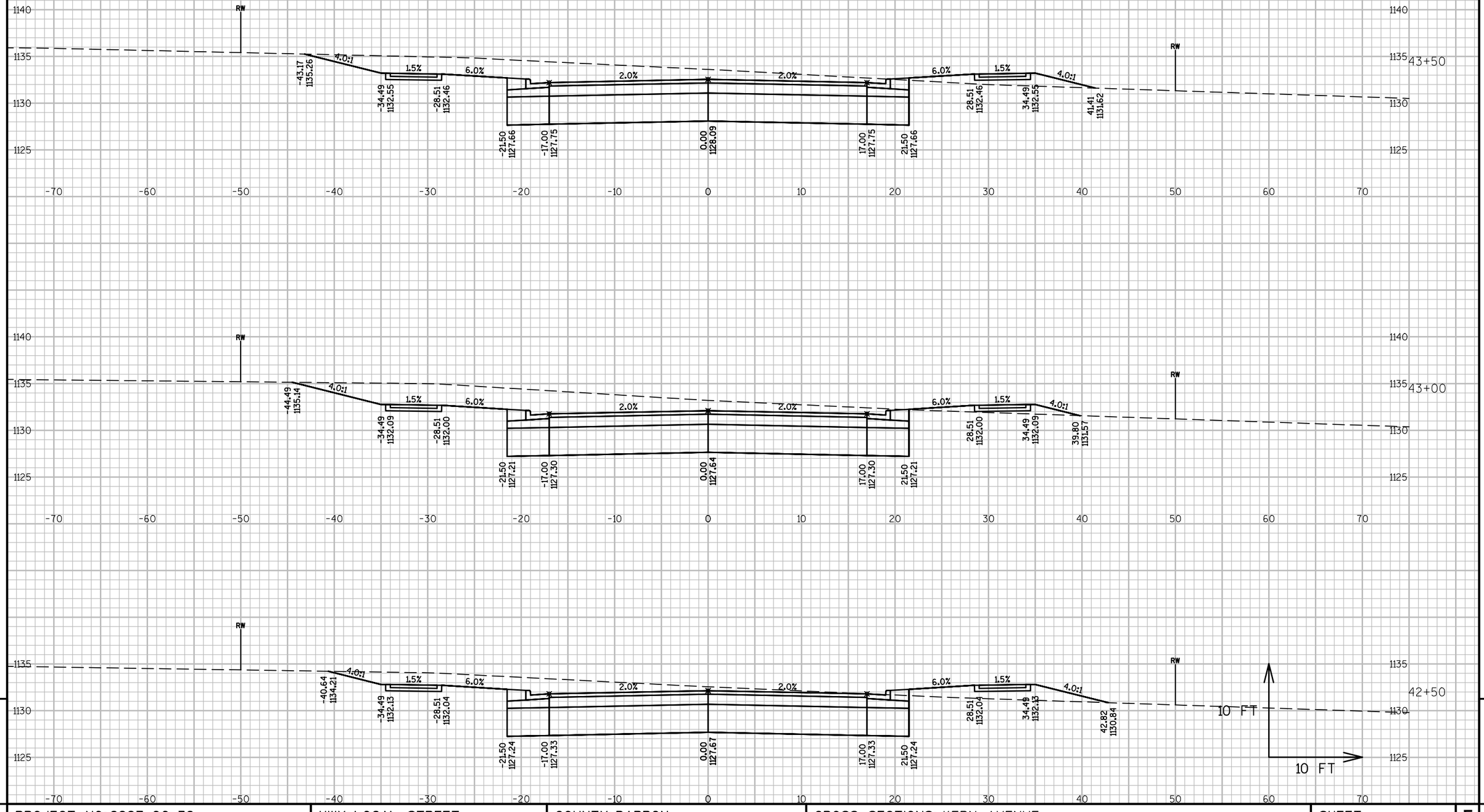


PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 199	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-KERNAVE.DWG
LAYOUT NAME - 0902 (20)

PLOT DATE : 10/19/2017 10:40 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

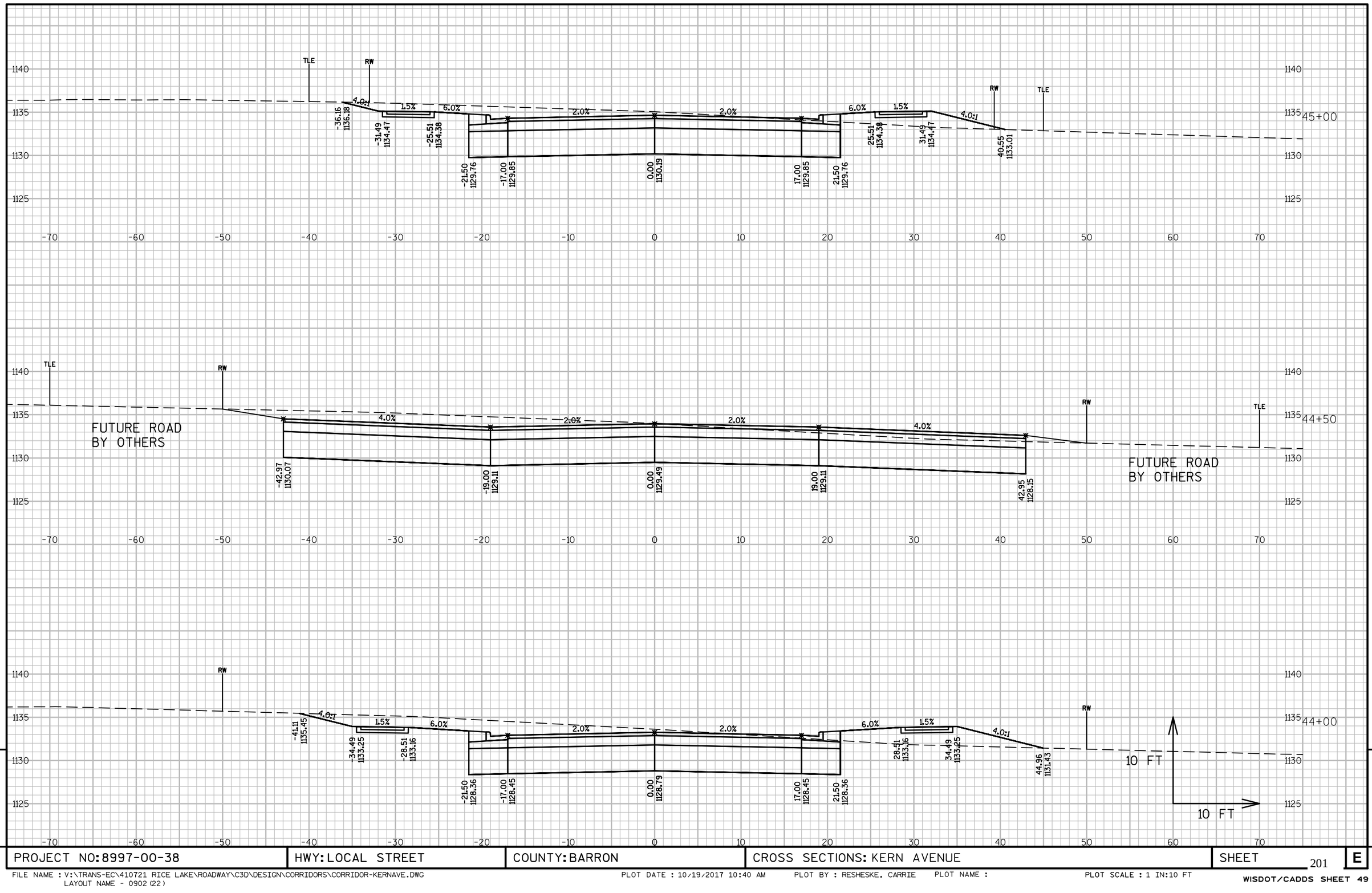


PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 200	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-KERNAVE.DWG
LAYOUT NAME - 0902 (21)

PLOT DATE : 10/19/2017 10:40 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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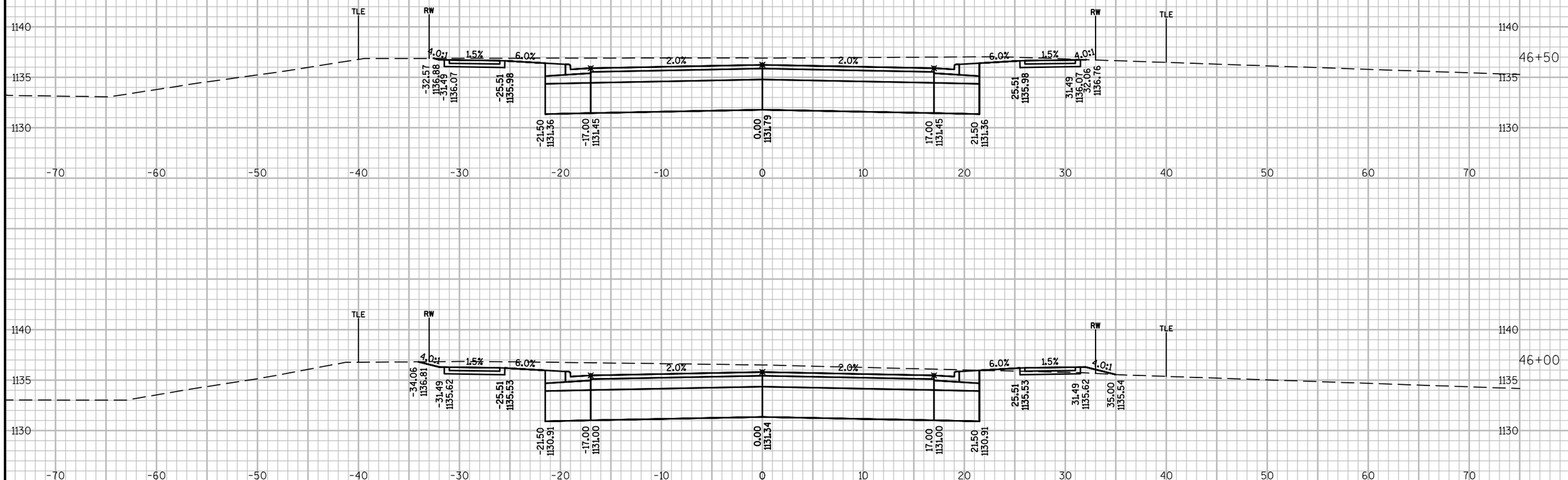
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PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 201	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-KERNAVE.DWG
LAYOUT NAME - 0902 (22)

PLOT DATE : 10/19/2017 10:40 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT

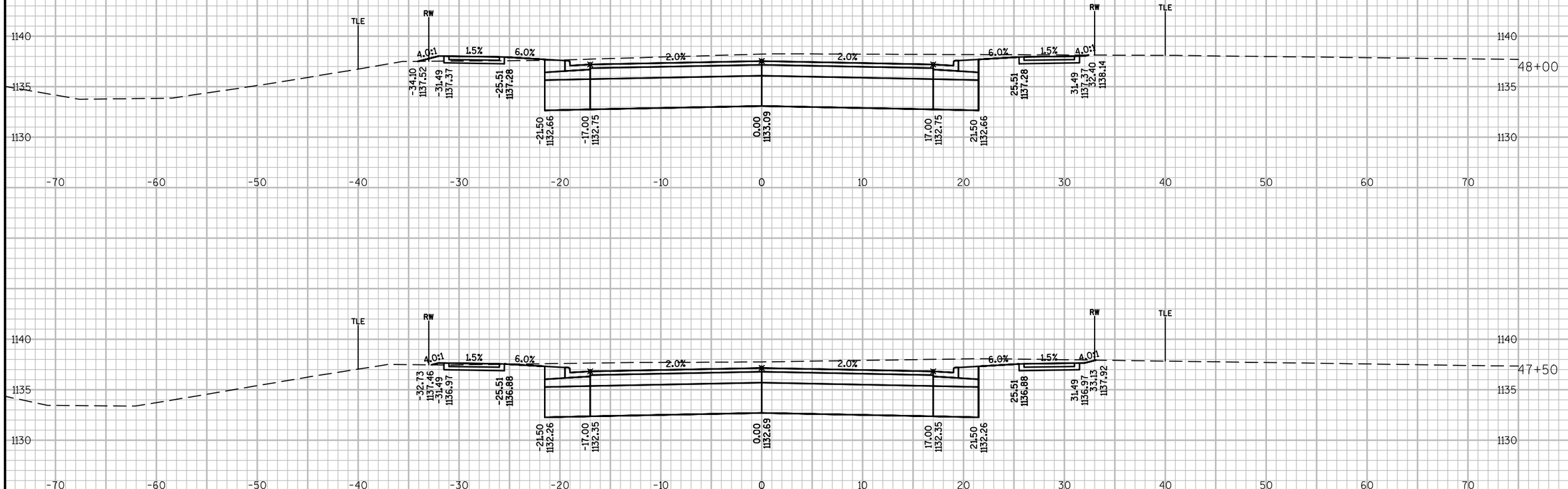
WISDOT/CADDS SHEET 49

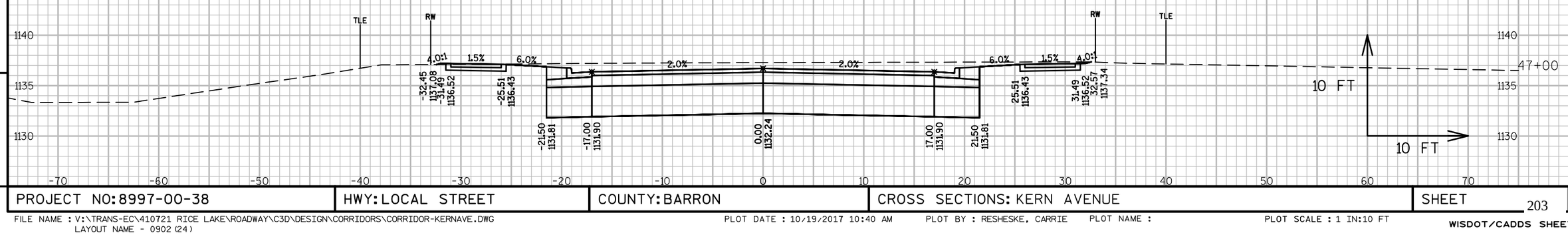


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PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 202	E





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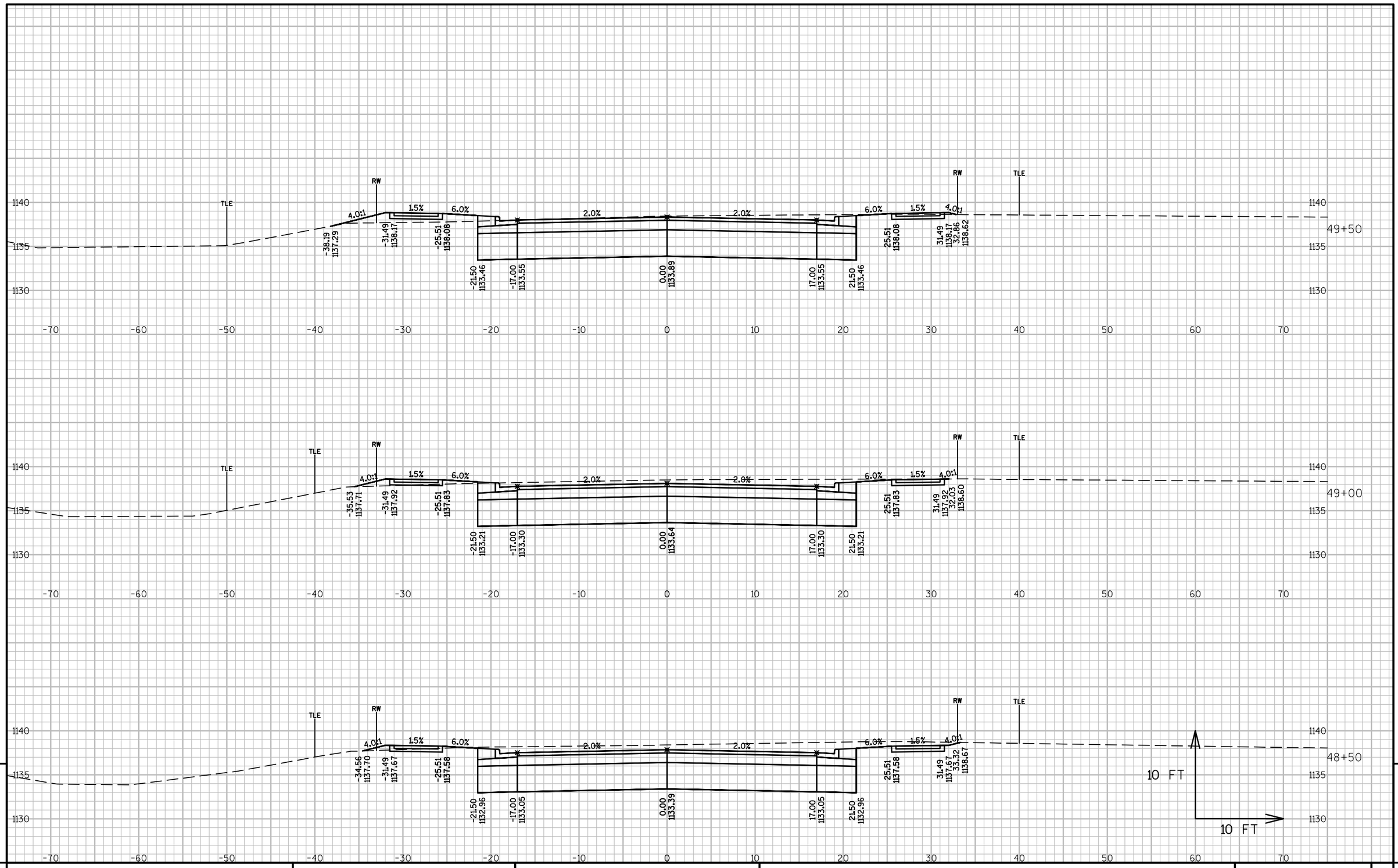
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PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 203	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-KERNAVE.DWG
LAYOUT NAME - 0902 (24)

PLOT DATE : 10/19/2017 10:40 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

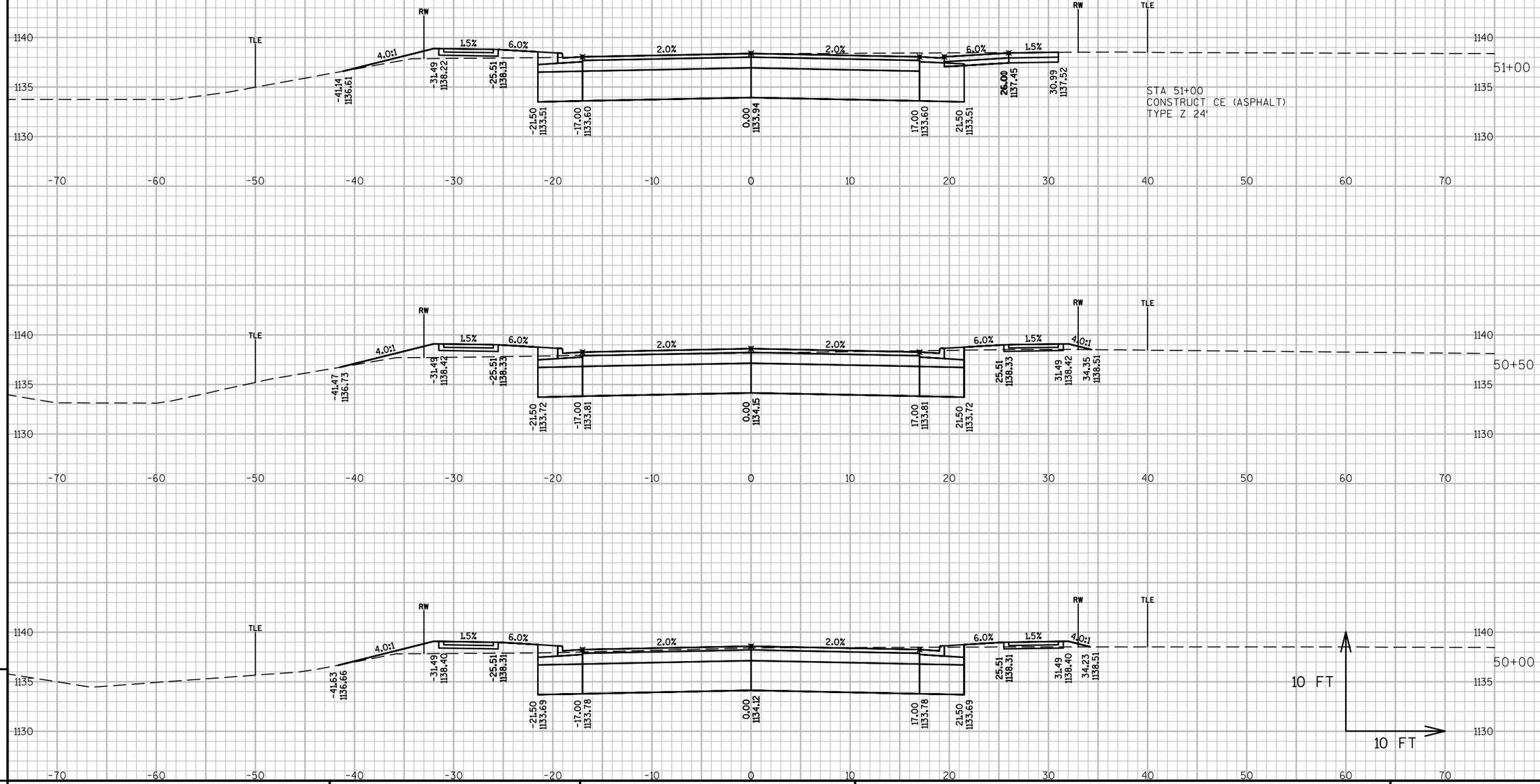


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PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 204	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-KERNAVE.DWG
LAYOUT NAME - 0902 (25)
PLOT DATE : 10/19/2017 10:40 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



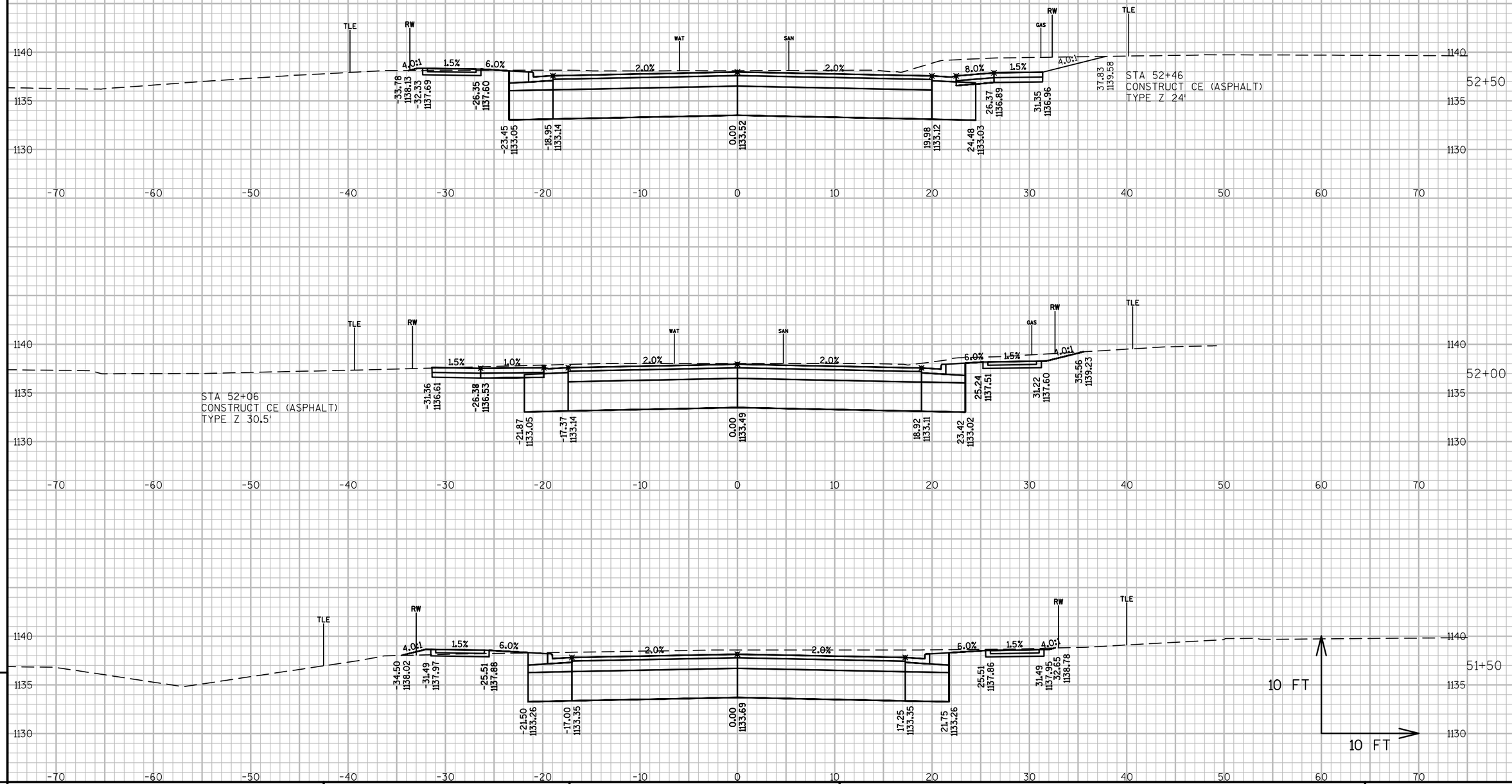
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PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 205	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-KERNAVE.DWG
LAYOUT NAME - 0902 (26)

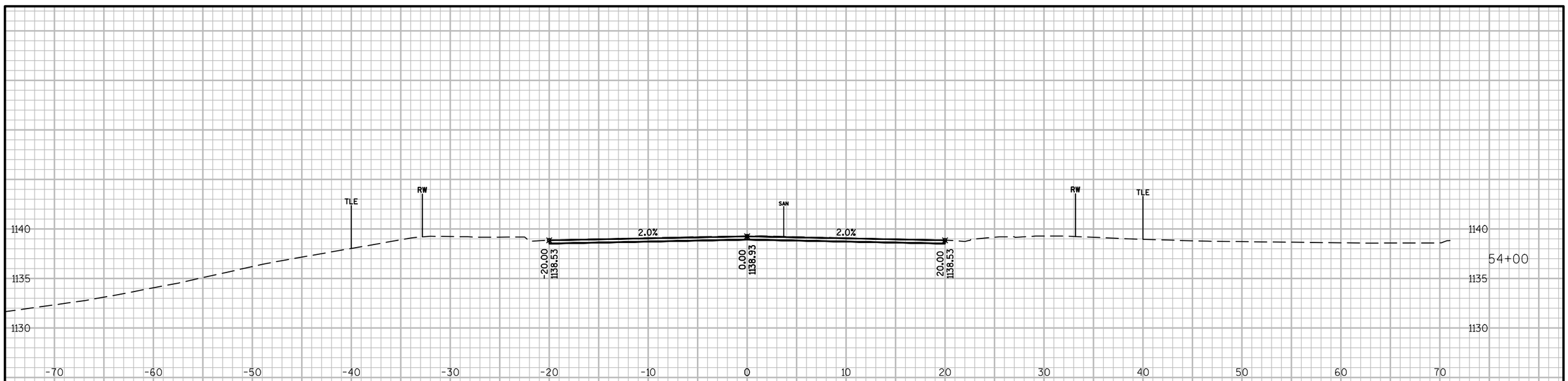
PLOT DATE : 10/19/2017 10:40 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT

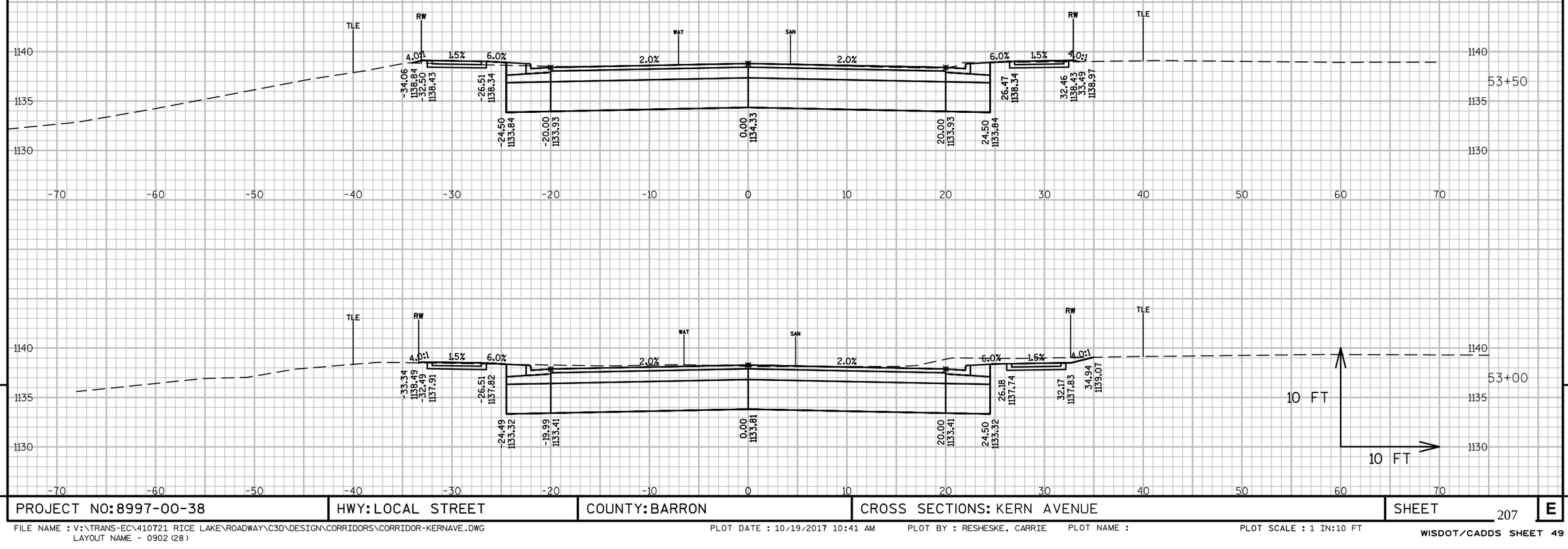


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PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 206	E





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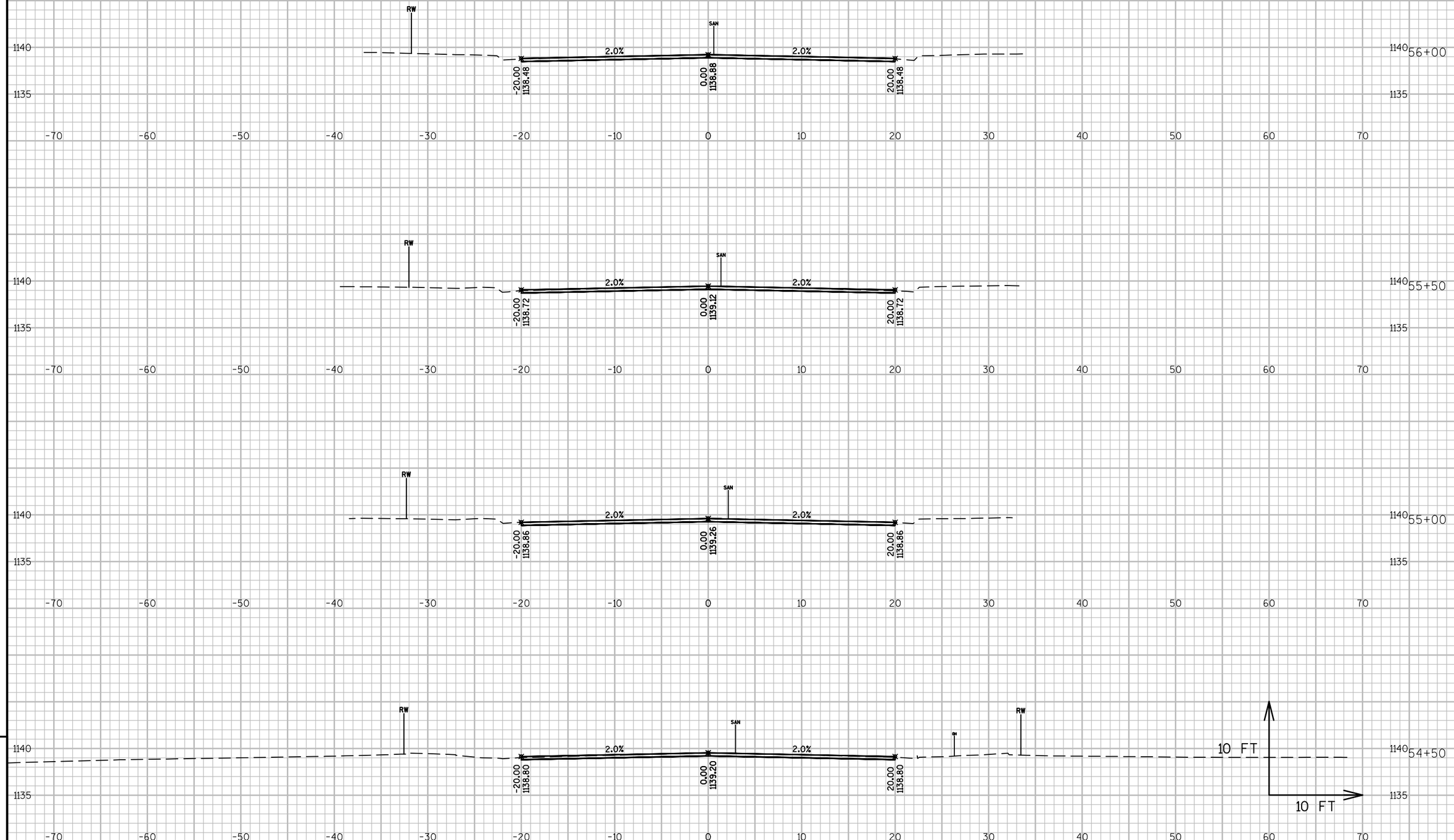
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PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 207	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-KERNAVE.DWG
LAYOUT NAME - 0902 (28)

PLOT DATE : 10/19/2017 10:41 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

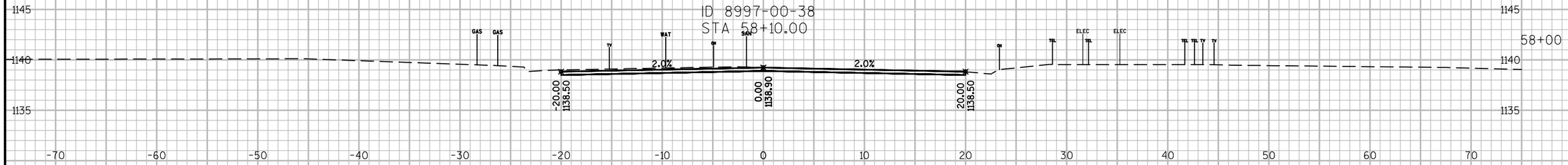


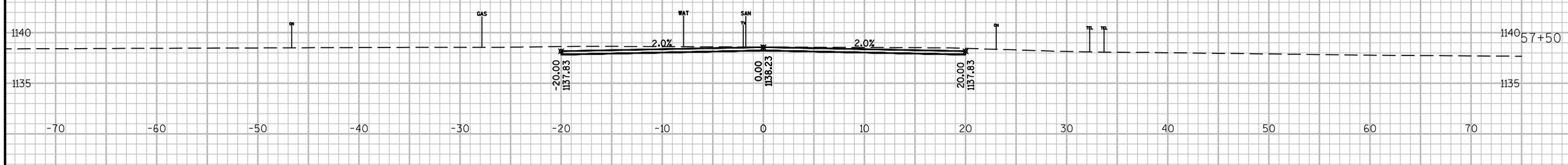
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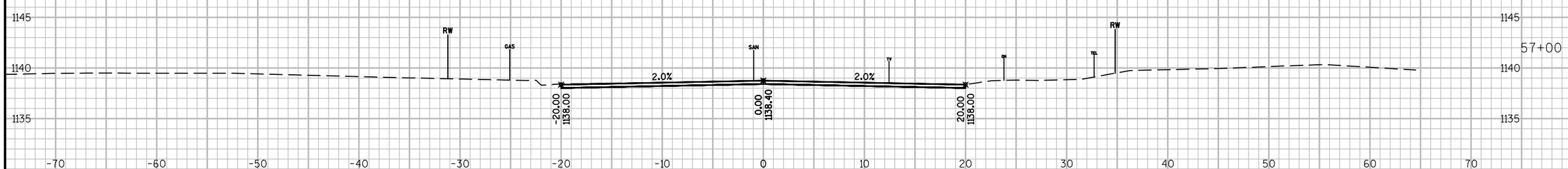
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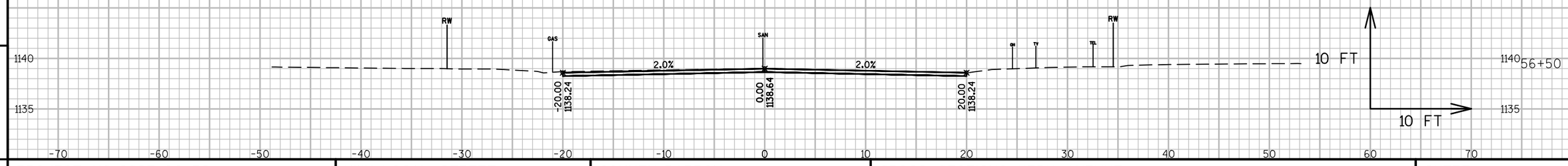
PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 208	E

END PROJECT
ID 8997-00-38
STA 58+10.00









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PROJECT NO: 8997-00-38	HWY: LOCAL STREET	COUNTY: BARRON	CROSS SECTIONS: KERN AVENUE	SHEET 209	E

FILE NAME : V:\TRANS-EC\410721 RICE LAKE\ROADWAY\C3D\DESIGN\CORRIDORS\CORRIDOR-KERNAVE.DWG
LAYOUT NAME - 0902 (30)
PLOT DATE : 10/19/2017 10:41 AM PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
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