

PROJECT ID: 9958-01-72
WITH: N/A

COUNTY: MARATHON

ORDER OF SHEETS

- Section No. 1 Title
- Section No. 2 Typical Sections and Details
- Section No. 3 Miscellaneous Quantities
- Section No. 5 Plan and Profile
- Section No. 6 Standard Detail Drawings
- Section No. 7 Sign Plates
- Section No. 9 Computer Earthwork Data
- Section No. 9 Cross Sections

TOTAL SHEETS = 41

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

ATHENS 2 (MARATHON COUNTY) / RME

STH 29 - CORN ROAD

CTH H

MARATHON COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9958-01-72		

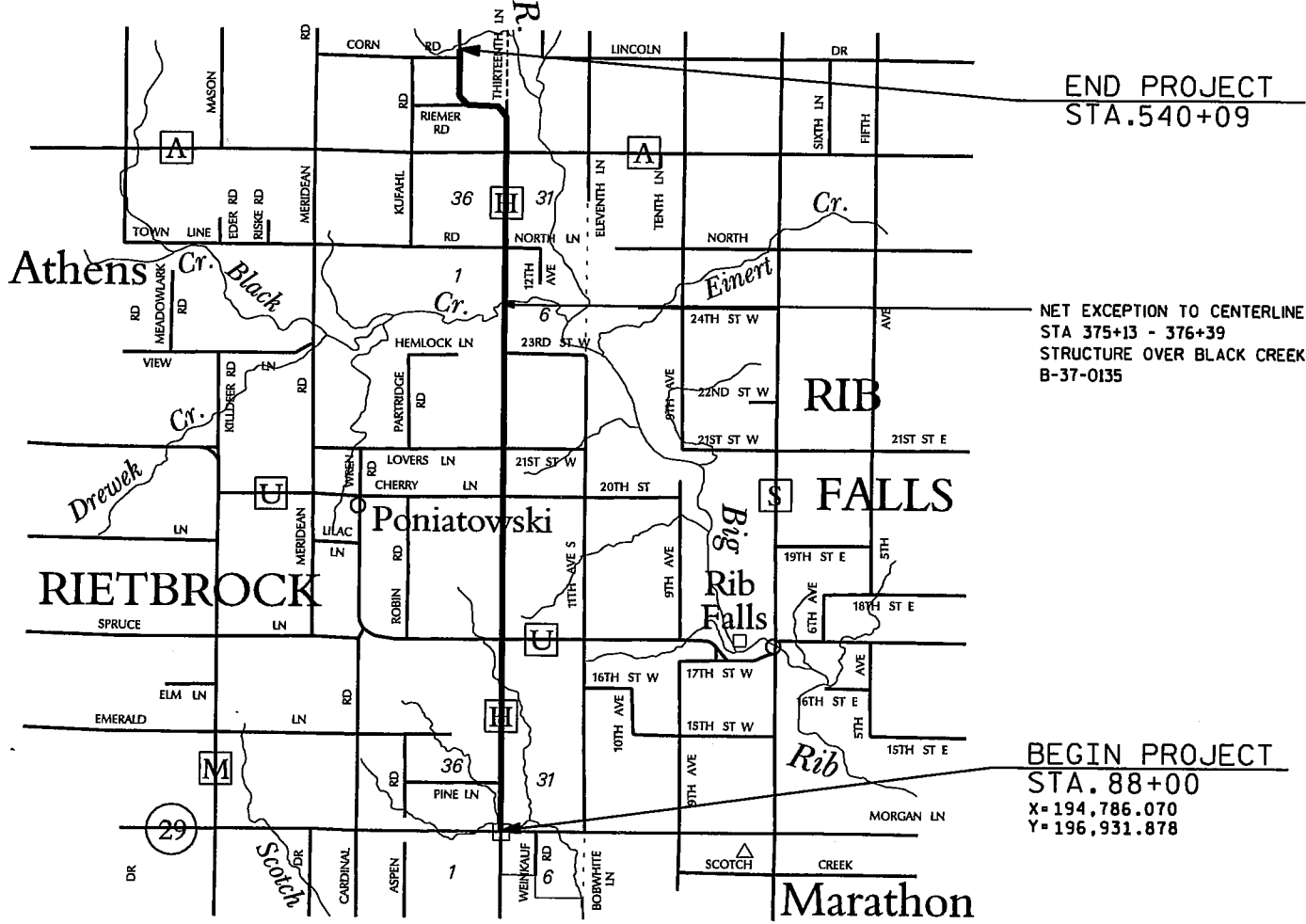
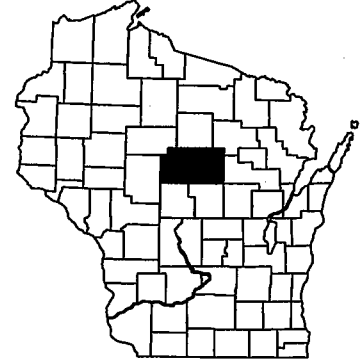
RECEIVED
MAY 1 - 2006
MAR. CTY. HWY. DEPT.
WAUSAU, WISCONSIN

STATE PROJECT NUMBER
9958-01-72

ACCEPTED FOR
MARATHON COUNTY

4-28-06
(Date)

[Signature]
HIGHWAY COMMISSIONER



END PROJECT
STA. 540+09

NET EXCEPTION TO CENTERLINE
STA 375+13 - 376+39
STRUCTURE OVER BLACK CREEK
B-37-0135

BEGIN PROJECT
STA. 88+00
X= 194,786.070
Y= 196,931.878

LAYOUT
SCALE 0 1 MI.
TOTAL NET LENGTH OF CENTERLINE = 8.538 MI.

DESIGN DESIGNATION	STH 29-CTH U	CTH U-CTH A	CTH A-CORN ROAD
A.A.D.T.	= 1865	1125	850
A.A.D.T.	= 2010	1200	900
D.H.V.	= N/A	N/A	N/A
D.D.	= 50/50	50/50	50/50
T.	= 29.5%	48.9%	55.9%
DESIGN SPEED	= 55 MPH	55 MPH	55 MPH
ESALS	= 1,204,500	1,204,500	1,197,200

CONVENTIONAL SYMBOLS	PROFILE
PLAN	GRADE LINE
CORPORATE LIMITS	ORIGINAL GROUND
PROPERTY LINE	MARSH OR ROCK PROFILE (To be noted as such)
LOT LINE	SPECIAL DITCH
LIMITED HIGHWAY EASEMENT	GRADE ELEVATION
EXISTING RIGHT OF WAY	CULVERT (Profile View)
PROPOSED OR NEW R/W LINE	UTILITIES
SLOPE INTERCEPT	ELECTRIC
REFERENCE LINE	FIBER OPTIC
EXISTING CULVERT	GAS
PROPOSED CULVERT (Box or Pipe)	SANITARY SEWER
COMBUSTIBLE FLUIDS	STORM SEWER
MARSH AREA	TELEPHONE
WOODED OR SHRUB AREA	WATER
	UTILITY PEDESTAL
	POWER POLE
	TELEPHONE POLE

ORIGINAL PLANS PREPARED BY

EMCS
engineering
management
consulting
services

605 South 24th Avenue, Suite 24
Wausau, WI 54401
PHONE 715.845.1081 FAX 715.845.1099



4-29-06
(Date)

[Signature]
(Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	EMCS
Designer	EMCS
Project Manager	GREG STELMACHER
Regional Examiner	GREG STELMACHER
Regional Supervisor	ROBERT WAGNER
C.O. Examiner	----

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MARATHON COUNTY, HORIZONTAL DATUM NAD 83 (91). ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO VERTICAL DATUM NATIONAL GEODETIC VERTICAL DATUM 1929 ADJUSTMENT (NGVD 29).

E

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.
 EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE AND IS NOT SHOWN ON THE CROSS SECTIONS. EBS, IF REQUIRED, WILL BE DETERMINED BY THE ENGINEER AND MEASURED AND PAID FOR AS COMMON EXCAVATION.

THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE & ALL UTILITIES IN THE VICINITY OF THE PROJECT TO LOCATE THEIR FACILITIES AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING WORK.

EROSION CONTROL ITEMS SHOWN ON THE PLAN ARE AT SUGGESTED LOCATIONS. THE EXACT LOCATIONS AND DIMENSIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD. ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DEEMS THE DEVICES NO LONGER NECESSARY.

ALL AREAS DISTURBED WITHIN THE RIGHT-OF-WAY, EXCEPT FOR PAVED OR CR. AGG. AREAS, SHALL BE COVERED WITH TOPSOIL, FERTILIZER, SEEDING AND MULCHED OR COVERED WITH EROSION MAT AS NOTED ON THE PLAN OR AS DETERMINED BY THE ENGINEER.

INDIVIDUAL SIDE ROAD PAVING LIMITS AS SHOWN ON THE PLAN ARE SUBJECT TO APPROVAL IN THE FIELD BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY HIS OPERATIONS OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS SHOWN IN THE PLANS. AREAS OUTSIDE OF NORMAL CONSTRUCTION LIMITS SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE UNLESS OTHERWISE AGREED UPON BY THE ENGINEER.

THE QUANTITIES FOR EROSION CONTROL ITEMS GENERALLY INCLUDE AN UNDISTRIBUTED AMOUNT FOR PROTECTION, CONTROL AND ABATEMENT OF WATER POLLUTION RESULTING FROM SOIL EROSION. THE DISTRIBUTION AND LOCATION OF THESE MATERIALS ARE TO BE DETERMINED BY THE ENGINEER.

HMA PAVEMENT LAYERS SHALL BE PLACED WITH WITH FOLLOWING THICKNESSES AND NOMINAL SIZES:

STH 29 - CTH A
 4.5-INCHES OF TYPE E-3 HMA PAVEMENT
 UPPER LAYER THICKNESS = 2-INCHES (50.8 MM)
 LOWER LAYER THICKNESS = 2.5-INCHES (63.5 MM)

CTH A - CORN ROAD
 4-INCHES OF TYPE E-3 HMA PAVEMENT
 UPPER LAYER THICKNESS = 1.75-INCHES (44.3 MM)
 LOWER LAYER THICKNESS = 2.25-INCHES (57.1 MM)

RECONSTRUCT AT CTH A
 6-INCHES OF TYPE E-3 HMA PAVEMENT
 UPPER LAYER THICKNESS = 2.5-INCHES (63.5 MM)
 LOWER LAYER THICKNESS = 3.5-INCHES (88.9 MM)

USE ASPHALTIC MATERIAL PG58-28 FOR ALL LAYERS



Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

ORDER OF SECTION 2 SHEETS

- TYPICAL SECTIONS
- CONSTRUCTION DETAILS
- INTERSECTION DETAILS
- ALIGNMENT DIAGRAM

UTILITIES

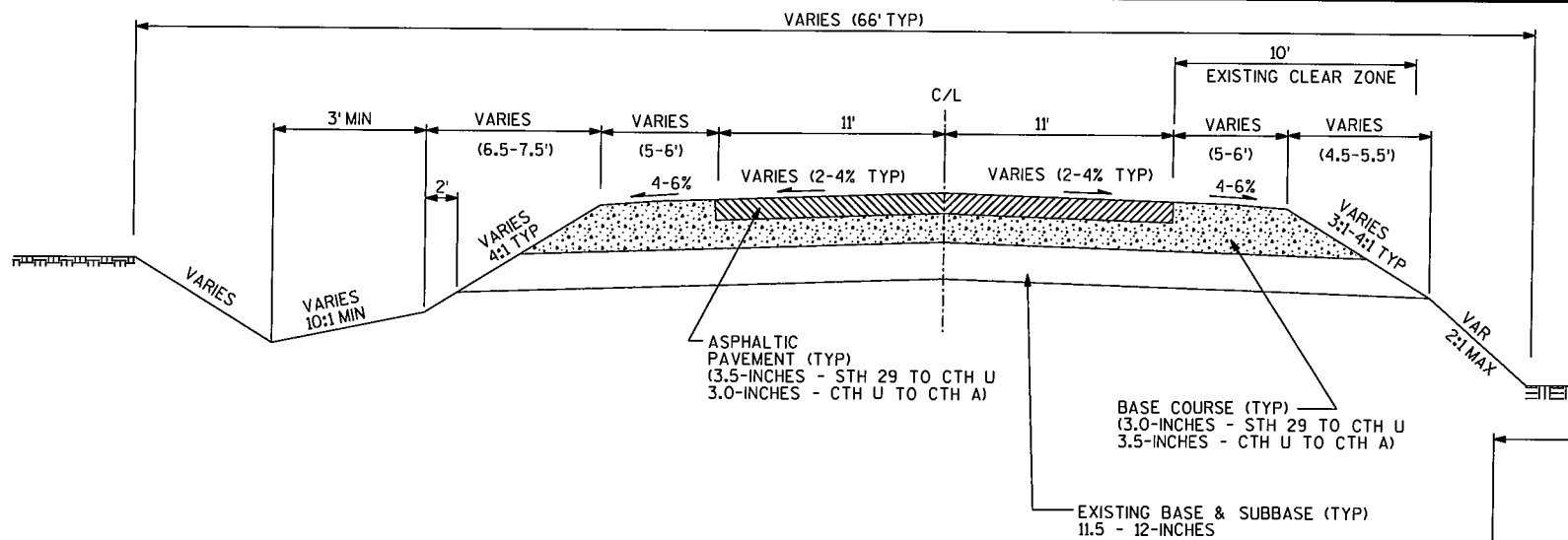
UTILITY	ADDRESS	FIELD CONTACT	UTILITY TYPE
VERIZON NORTH, INC	521 FOURTH STREET WAUSAU, WI 54403	MR. DAN HENSLER (715) 847-1553	TELEPHONE
WISCONSIN PUBLIC SERVICE CORPORATION	PO BOX 1116 WAUSAU, WI 54402	MR. CLAY VIRCKS (715) 848-7317 MR. BILL GRUHLKE (715) 848-7364	ELECTRIC NATURAL GAS

STANDARD DETAIL DRAWINGS

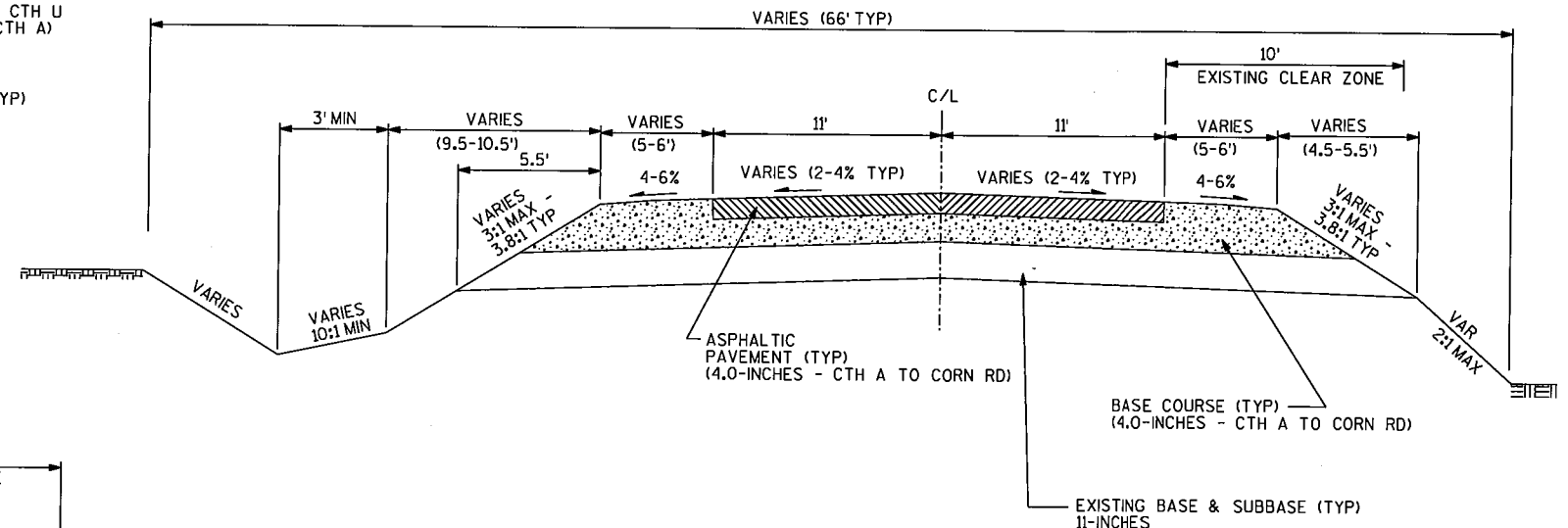
- 8E8-3 TYPICAL INSTALLATIONS OF EROSION BALES/TEMPORARY DITCH CHECKS
- 8E9-6 SILT FENCE
- 15C2-4a&b BARRICADES AND SIGNS FOR MAINLINE CLOSURES
- 15C3-1 BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
- 15C4-1 TRAFFIC CONTROL, ADVANCED WARNING SIGNS, 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
- 15C8-9a PAVEMENT MARKING (MAINLINE)
- 15C8-9b PAVEMENT MARKING (INTERSECTIONS)
- 15C12-2 TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

DNR LIAISON

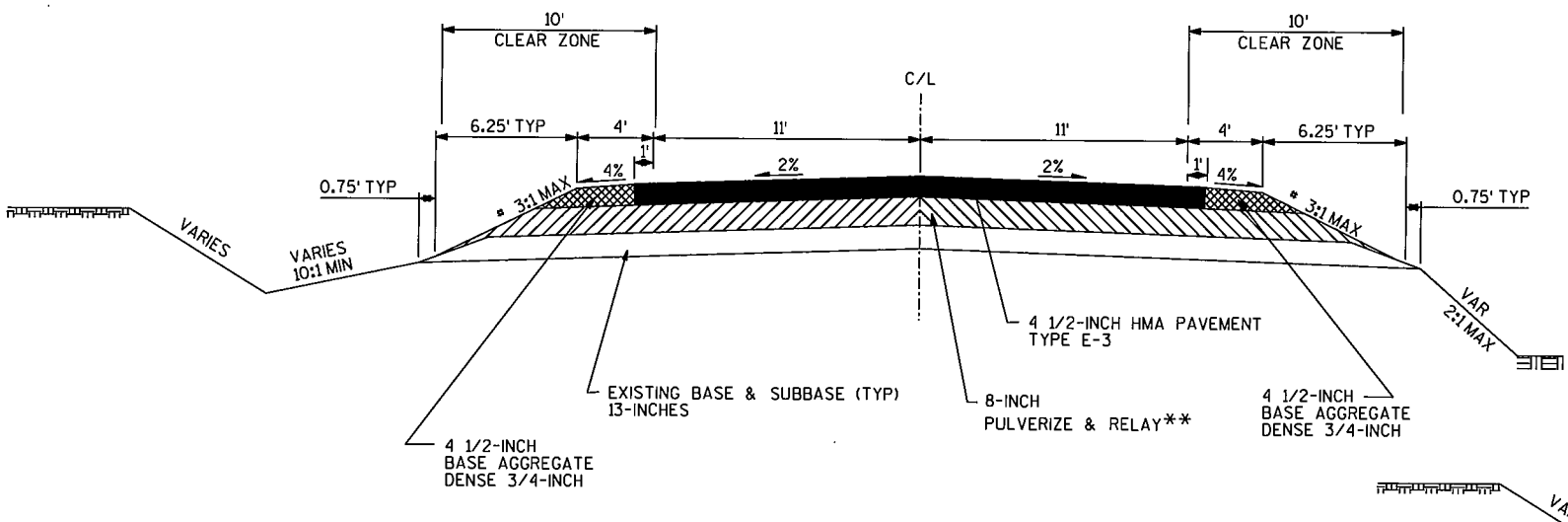
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
 473 GRIFFITH DRIVE
 WISCONSIN RAPIDS, WI 54494
 ATTN: TONY FISCHER
 (715) 421-7867



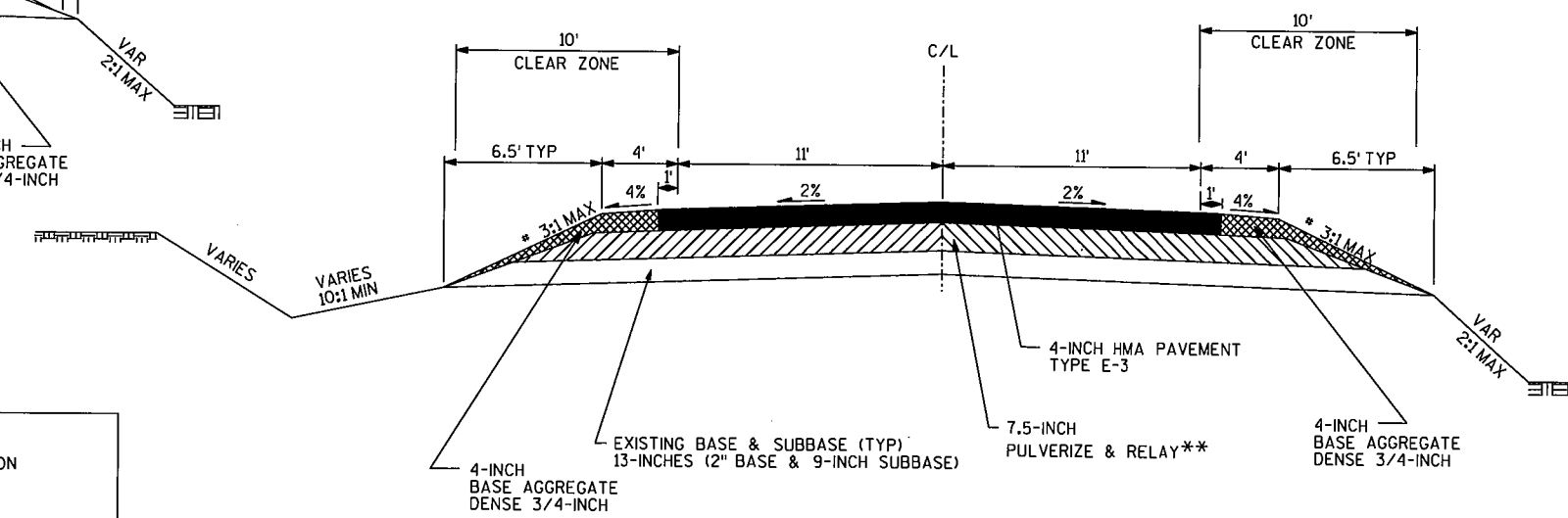
EXISTING TYPICAL SECTION
 STH 29 - CTH A
 STATION 88+00 - 461+00



EXISTING TYPICAL SECTION
 CTH A - CORN ROAD
 STATION 461+00 - 540+09

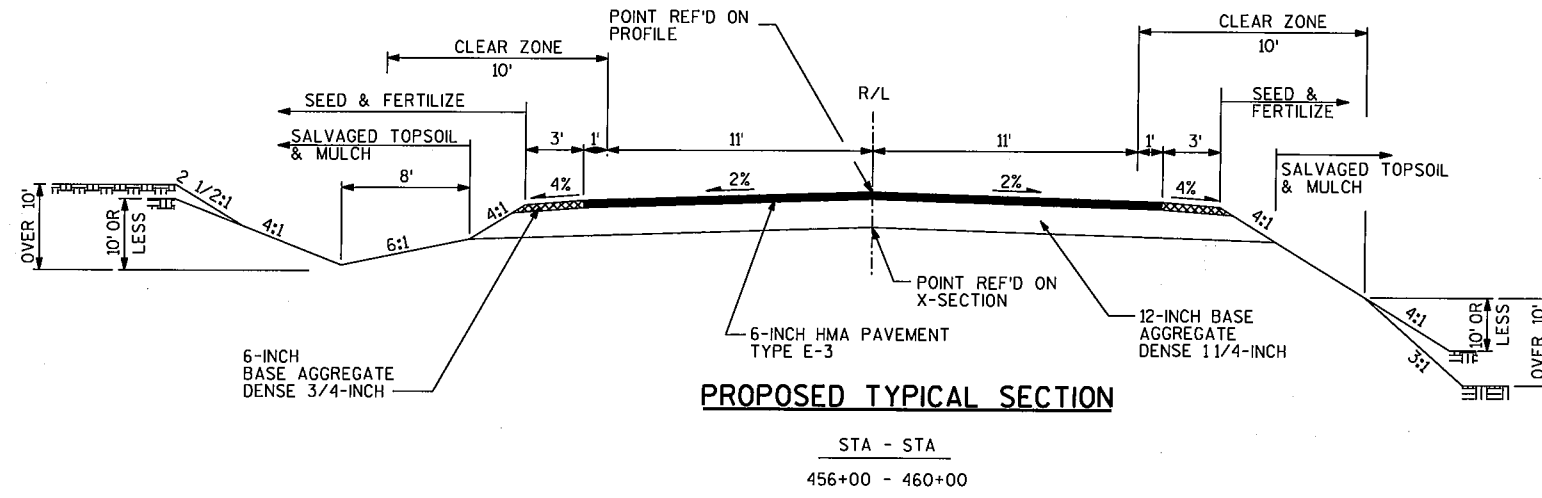


PROPOSED TYPICAL SECTION
 STH 29 - CTH A
 STATION 88+00 - 456+00



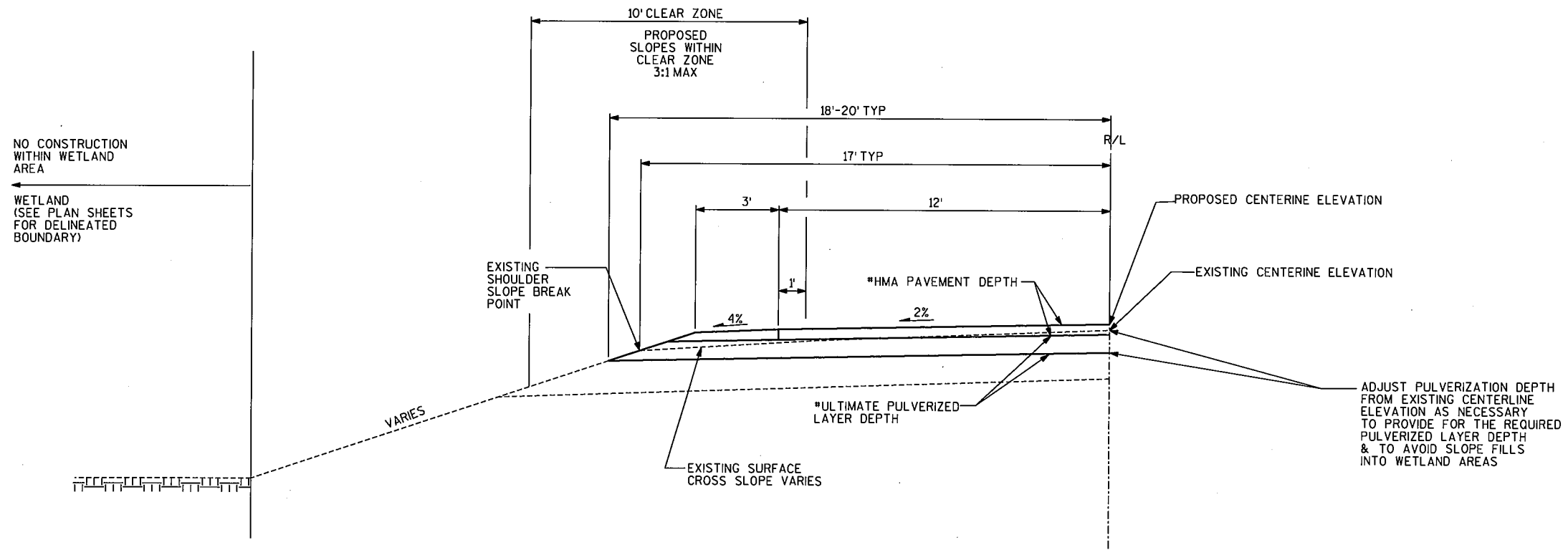
PROPOSED TYPICAL SECTION
 CTH A - CORN ROAD
 STATION 460+00 - 540+09

NOTES:
 DURING PULVERIZATION, ADJUST PULVERIZATION DEPTH AND HOLD EXISTING OUTSIDE SHOULDER OR EDGE OF PAVEMENT ELEVATION WHERE NECESSARY TO MAINTAIN MAXIMUM 3:1 SLOPES WITHIN THE CLEAR ZONE AND AVOID SIGNIFICANT SLOPE FILLS.
 ** DEPTH SHOWN IS AVERAGE DEPTH
 ** PRIOR TO PULVERIZATION PLACE BASE AGGREGATE DENSE 1 1/4-INCH OVER THE EXISTING ASPHALTIC PAVEMENT (30' WIDE), PULVERIZE APPROXIMATELY 2-INCHES INTO EXISTING BASE, GRADE PULVERIZED MIXTURE TO ACHIEVE THE REQUIRED CROSS SLOPE.
 ADD BASE COURSE BEFORE PULVERIZATION AS FOLLOWS:
 2.5-INCHES (STH 29 - CTH U, STA 88+00 - 190+00)
 3-INCHES (CTH U - CTH A, STA 190+00 - 456+00)
 1.5-INCHES (CTH A - CORN ROAD, STA 460+00 - 540+09)
 * MAINTAIN 3:1 MAX WITHIN CLEAR ZONE



PROPOSED TYPICAL SECTION

STA - STA
456+00 - 460+00



CONSTRUCTION DETAIL FOR PROPOSED TYPICAL SECTION THROUGH WETLAND AREAS

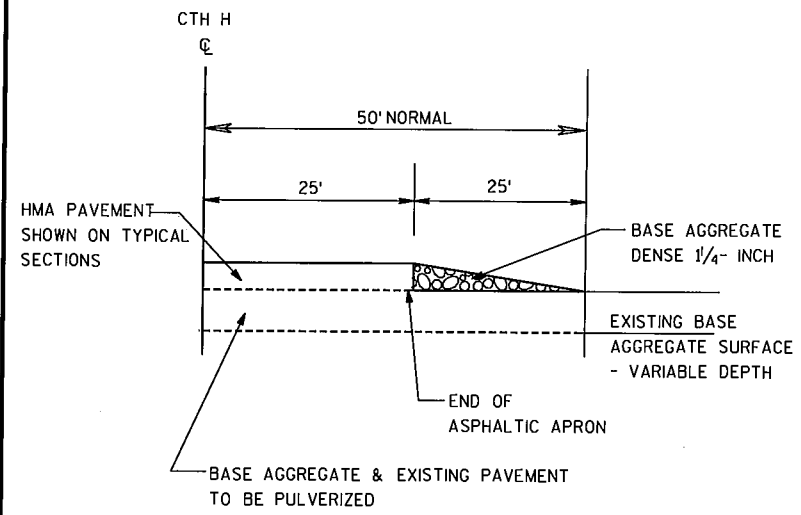
NOTE:
* SEE TYPICAL SECTIONS FOR ADDITIONAL INFORMATION

STA - STA	STA - STA
102+28 - 109+47	370+24 - 372+02
133+77 - 136+41	373+82 - 376+28
159+78 - 167+00	427+72 - 432+00
179+45 - 180+80	437+73 - 440+90
215+40 - 218+51	465+70 - 467+56
232+10 - 234+07	485+55 - 487+97
242+96 - 246+77	510+96 - 514+13
269+43 - 273+23	525+06 - 528+43
284+72 - 287+32	538+20 - 540+10
313+29 - 314+76	
320+80 - 322+88	
334+69 - 338+54	
362+12 - 368+36	

RUNOFF COEFFICIENT TABLE

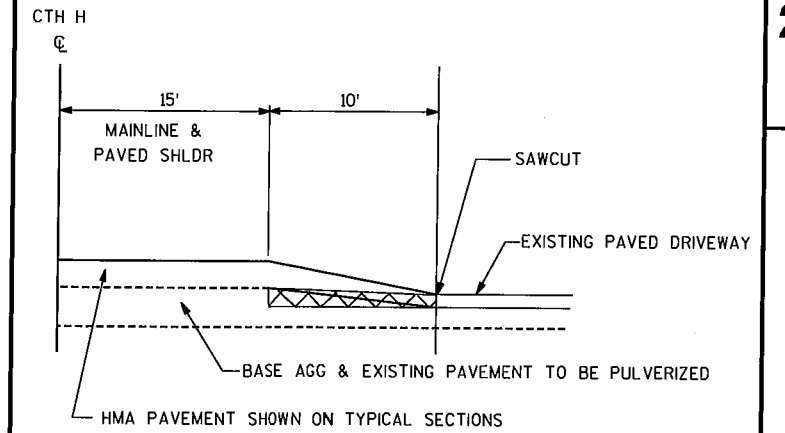
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34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

TOTAL PROJECT AREA = 86 ACRES
 TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 26 ACRES



BASE AGGREGATE SIDE ROAD JOINT DETAIL

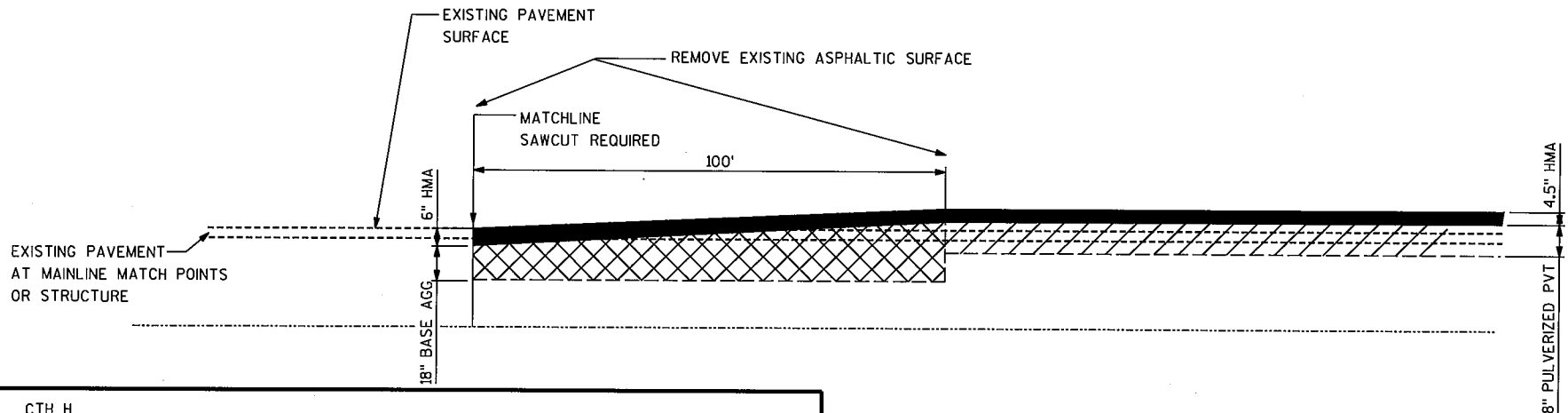
- PINE LANE
- LOVERS LANE
- WEST 21ST STREET
- WEST 23RD STREET
- WEST TOWNLINE ROAD
- EAST TOWNLINE ROAD
- REIMER ROAD
- CORN ROAD



DRIVEWAY DETAIL

FOR EXISTING PAVED DRIVEWAYS

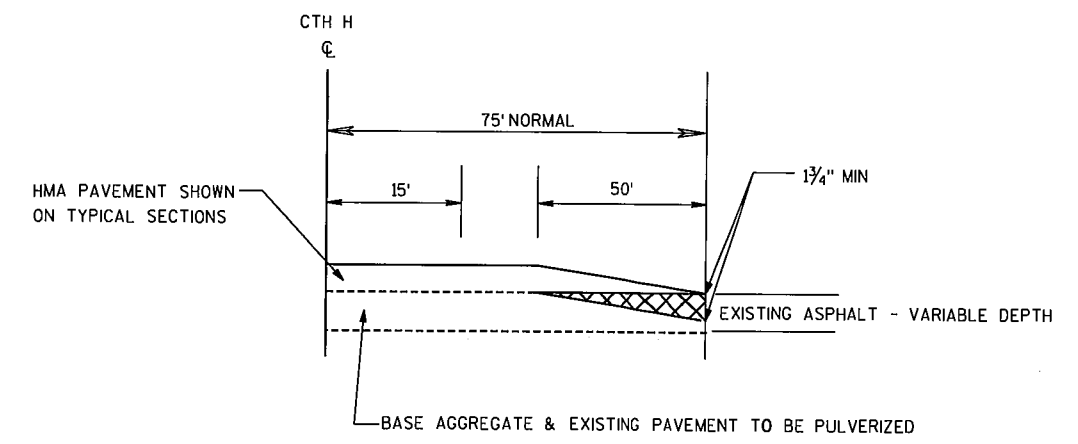
REMOVE EXISTING ASPHALTIC SURFACE



DETAIL OF MAINLINE TRANSITION FROM MATCHLINE TO PULVERIZE AND OVERLAY SECTION

- STA 88+00 (BEGIN PROJECT)
- STA 375+13 (SOUTH BLACK CREEK BRIDGE APPROACH)
- STA 376+39 (NORTH BLACK CREEK BRIDGE APPROACH)
- STA 540+09 (END PROJECT)

USE SAME 100' TRANSITION FROM PULVERIZE SECTION TO RECONSTRUCTION SECTION AT STATIONS 456+00 AND 460+00



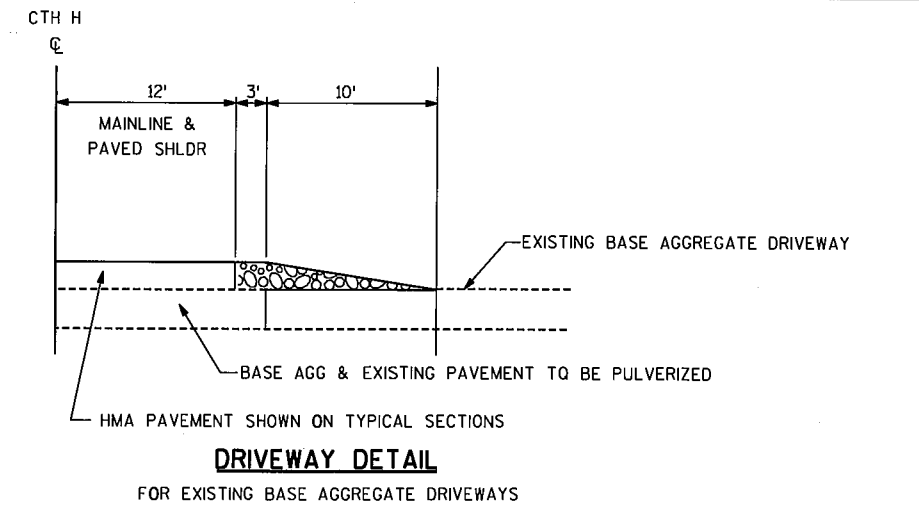
PAVED SIDE ROAD BUTT JOINT DETAIL

- CTH U
- CHERRY LANE
- WEST 20TH STREET

REMOVE MATERIAL UNDER ITEM 'REMOVING ASPHALTIC SURFACE BUTT JOINTS'. MATERIAL SHALL NOT BE REMOVED UNDER THIS ITEM UNTIL 24 HOURS BEFORE SIDE ROAD PAVING.

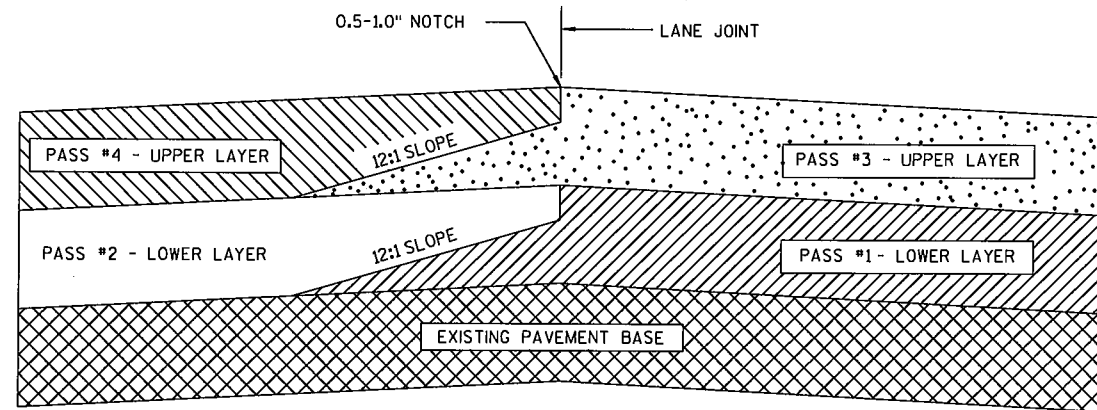
MAINTAIN EXISTING RADIUS AT SIDE ROAD

NOTE: SAWCUTS ARE NOT REQUIRED FOR CONSTRUCTION OF BUTT JOINT; ANY SAWCUT USED WILL BE CONSIDERED INCIDENTAL TO THE ITEM "REMOVING ASPHALTIC SURFACE BUTT JOINTS."

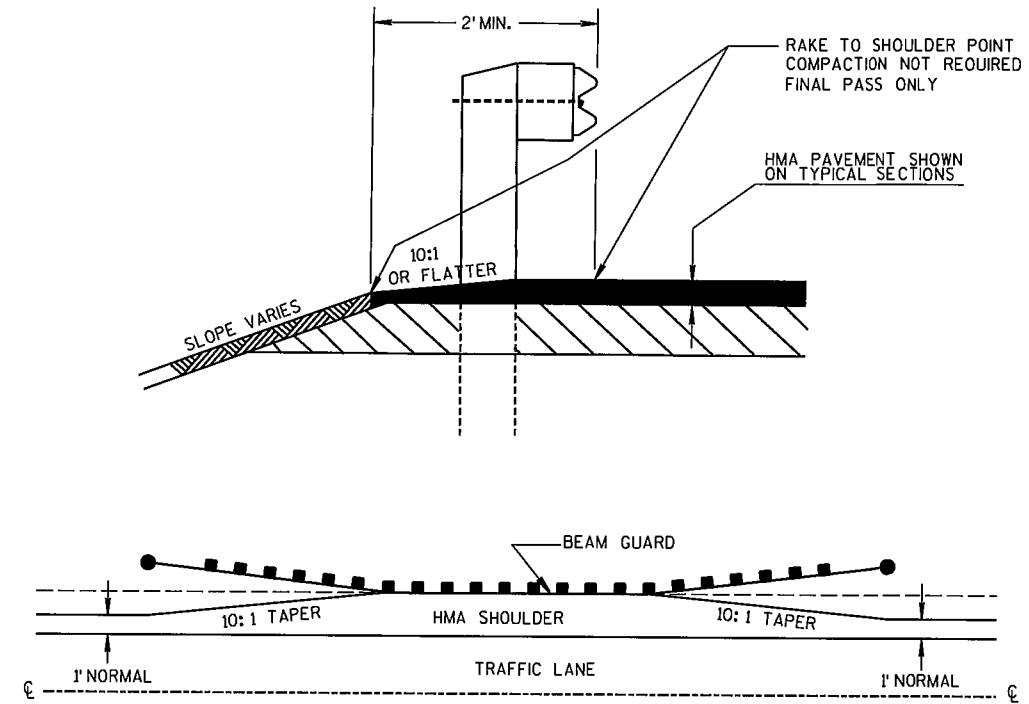


DRIVEWAY DETAIL

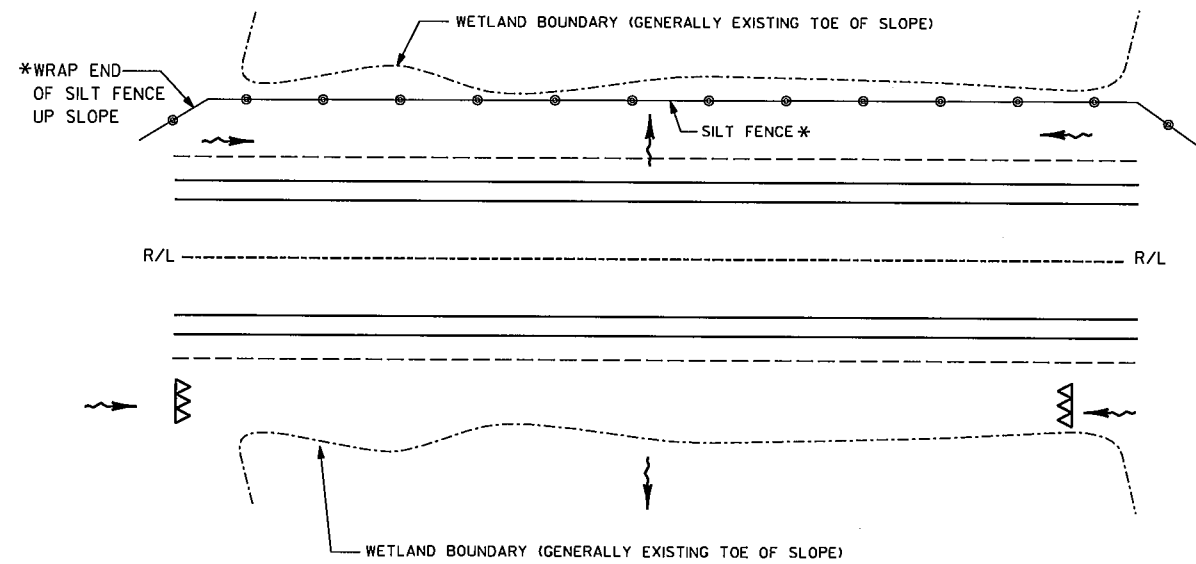
FOR EXISTING BASE AGGREGATE DRIVEWAYS



(LOWER AND UPPER LAYERS)
TYPICAL PAVEMENT CROSS SECTIONS OF
TAPERED AND NOTCHED LONGITUDINAL JOINTS

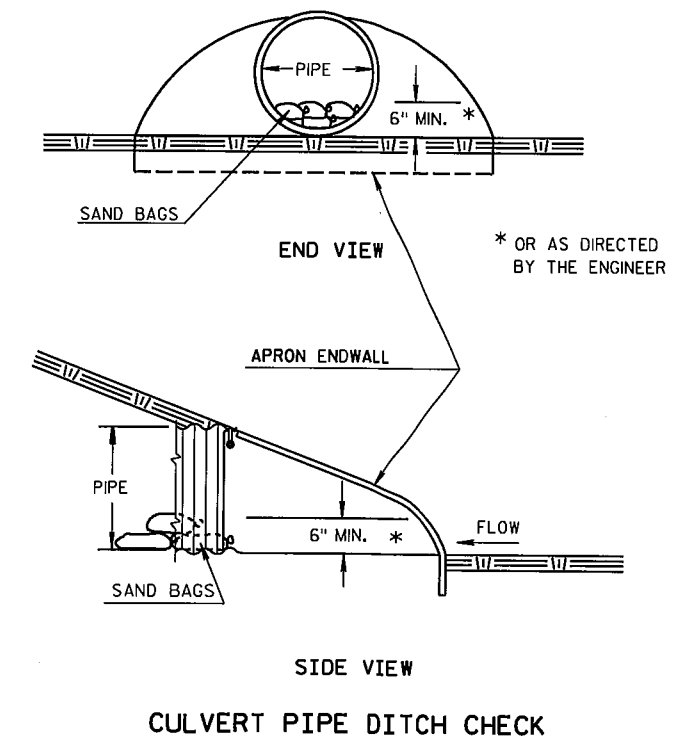


DETAIL FOR HMA SHOULDER AT BEAM GUARD







* IF THE POTENTIAL FOR EROSION & RUNOFF FROM PULVERIZED AREAS IS HIGH (I.E. IN SAG LOCATIONS) WITHIN THE STATIONING FOR THE WETLAND AREAS LISTED ON THE TYPICAL SECTION, INSTALL SILT FENCE OR TEMPORARY DITCH CHECKS AS DIRECTED BY THE ENGINEER TO AVOID SILTATION INTO THE WETLAND AREAS

CONSTRUCTION DETAIL FOR EROSION CONTROL
PLACEMENT THROUGH WETLAND AREAS
(AS NEEDED)



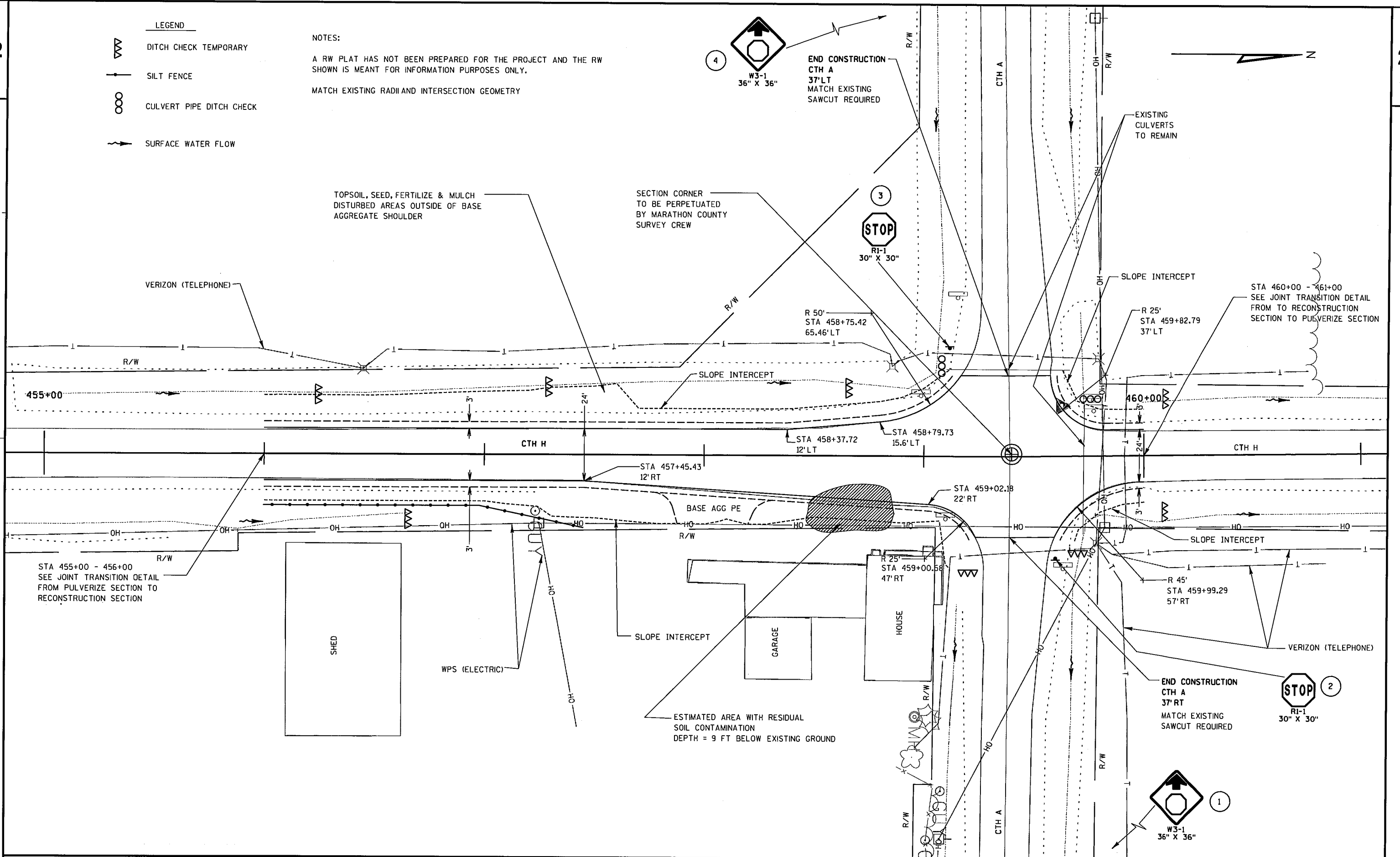
CULVERT PIPE DITCH CHECK

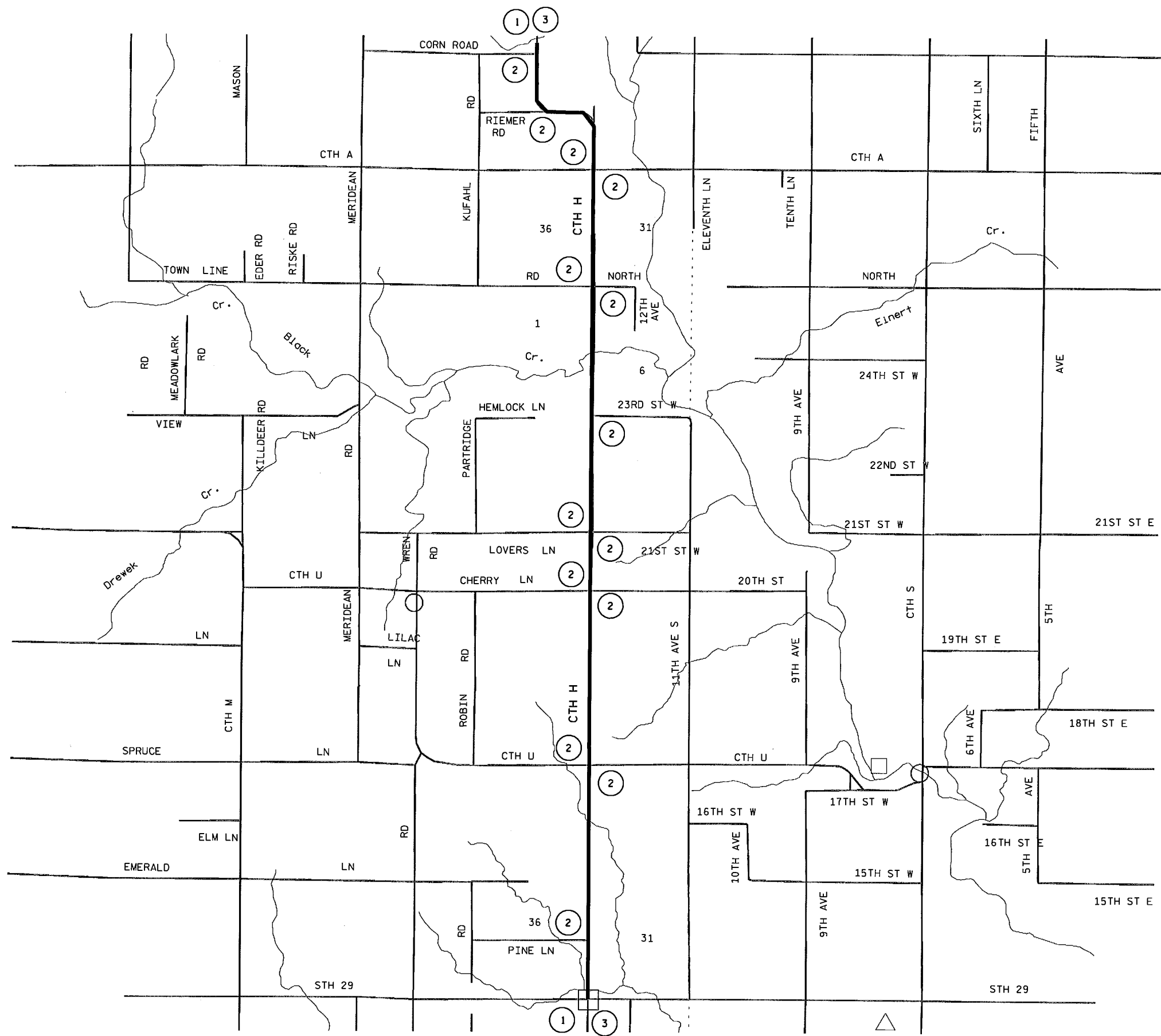
- LEGEND**
-  DITCH CHECK TEMPORARY
 -  SILT FENCE
 -  CULVERT PIPE DITCH CHECK
 -  SURFACE WATER FLOW

NOTES:

A RW PLAT HAS NOT BEEN PREPARED FOR THE PROJECT AND THE RW SHOWN IS MEANT FOR INFORMATION PURPOSES ONLY.

MATCH EXISTING RADII AND INTERSECTION GEOMETRY

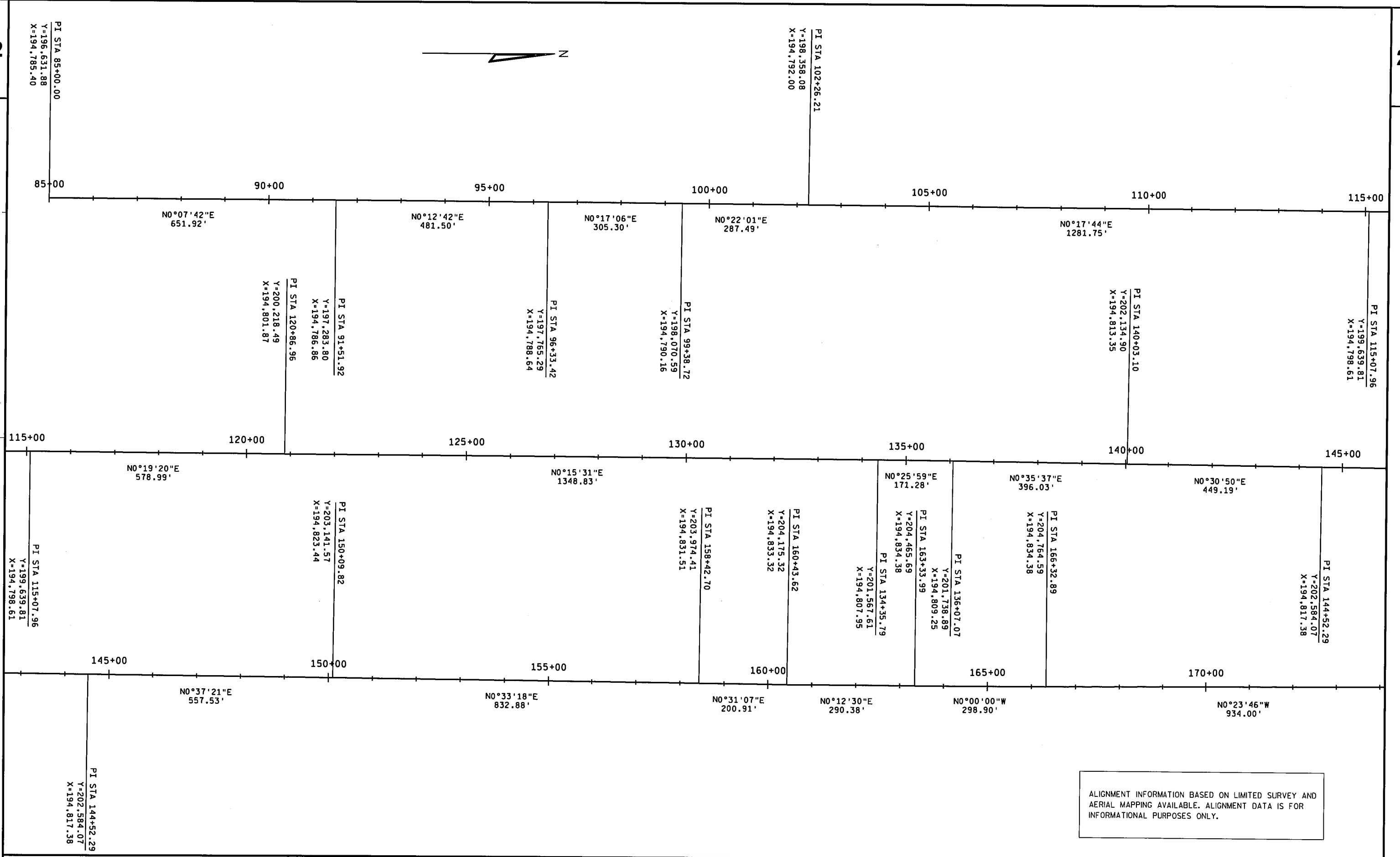




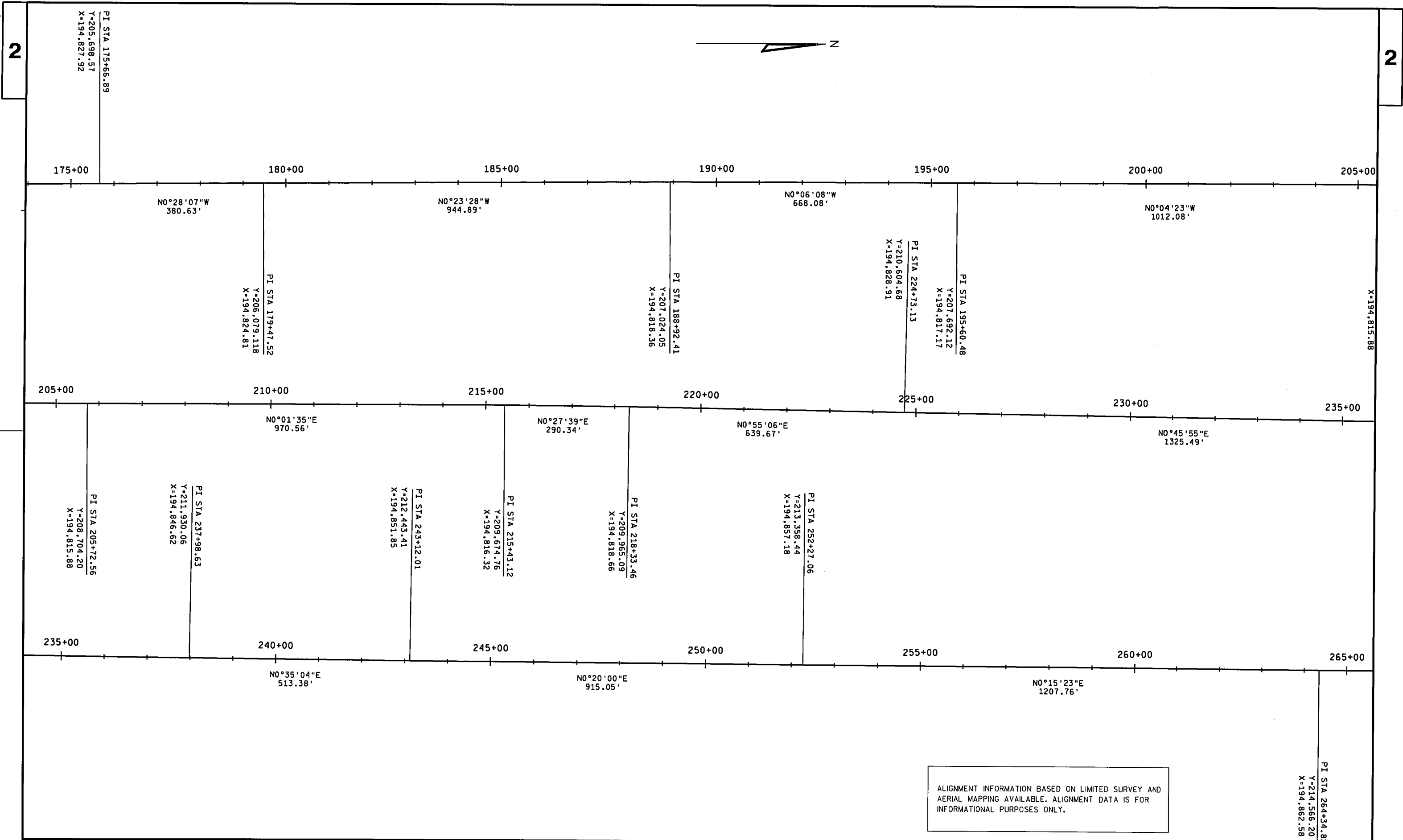
LEGEND

- ① SEE DETAIL FOR BARRICADES & SIGNS FOR MAINLINE CLOSURE
- ② SEE DETAIL FOR BARRICADES & SIGNS FOR SIDEROAD CLOSURE
- ③ SEE DETAIL FOR ADVANCED WARNING SIGNS, 45 MPH OR GREATER, TWO-WAY UNDIVIDED ROADWAY OPEN TO TRAFFIC
- CTH H WORKZONE
SEE DETAIL FOR TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)





ALIGNMENT INFORMATION BASED ON LIMITED SURVEY AND AERIAL MAPPING AVAILABLE. ALIGNMENT DATA IS FOR INFORMATIONAL PURPOSES ONLY.



ALIGNMENT INFORMATION BASED ON LIMITED SURVEY AND AERIAL MAPPING AVAILABLE. ALIGNMENT DATA IS FOR INFORMATIONAL PURPOSES ONLY.

PI STA 264+34.82
Y=214,566.20
X=194,862.58

PROJECT NO: 9958-01-72

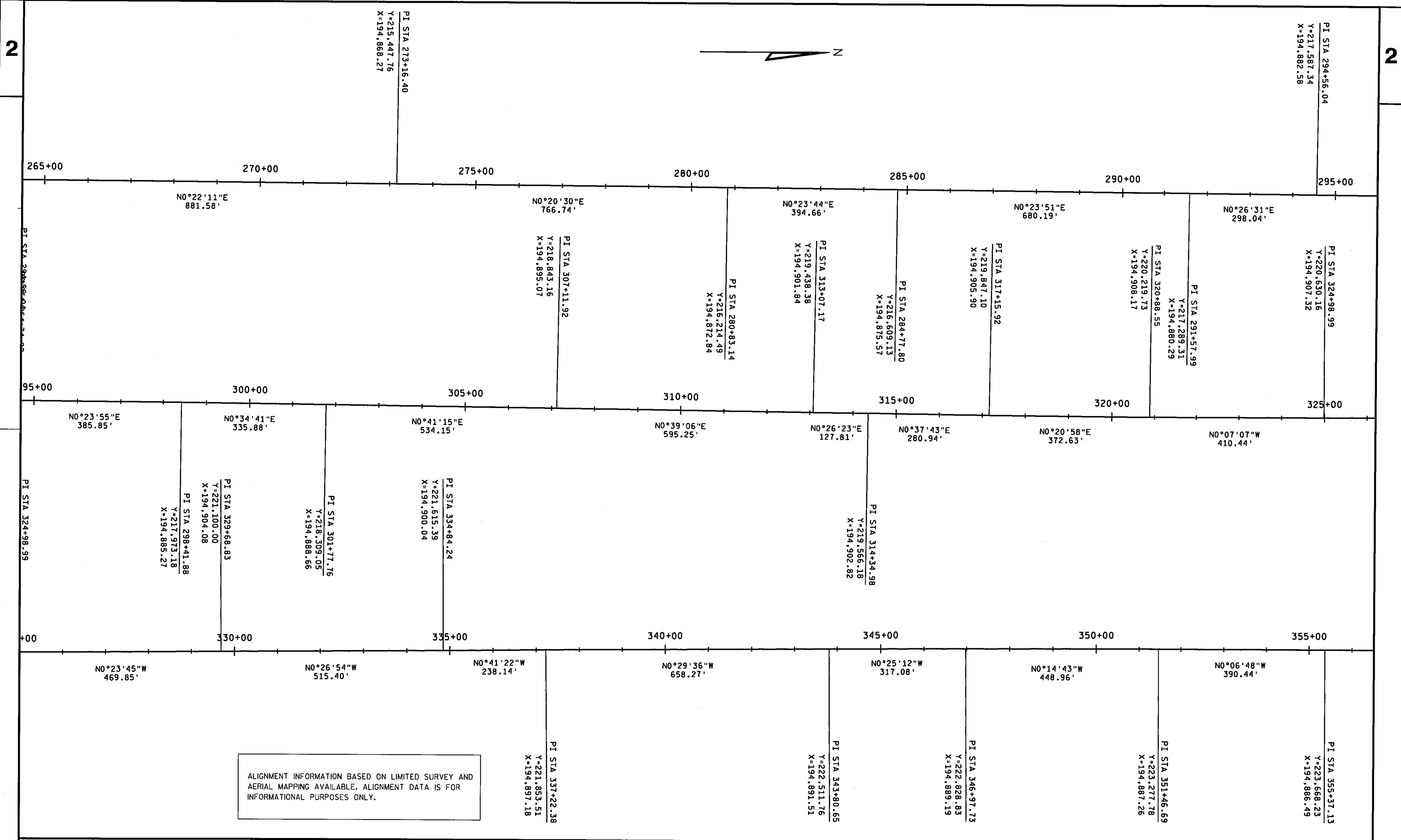
HWY: CTH H

COUNTY: MARATHON

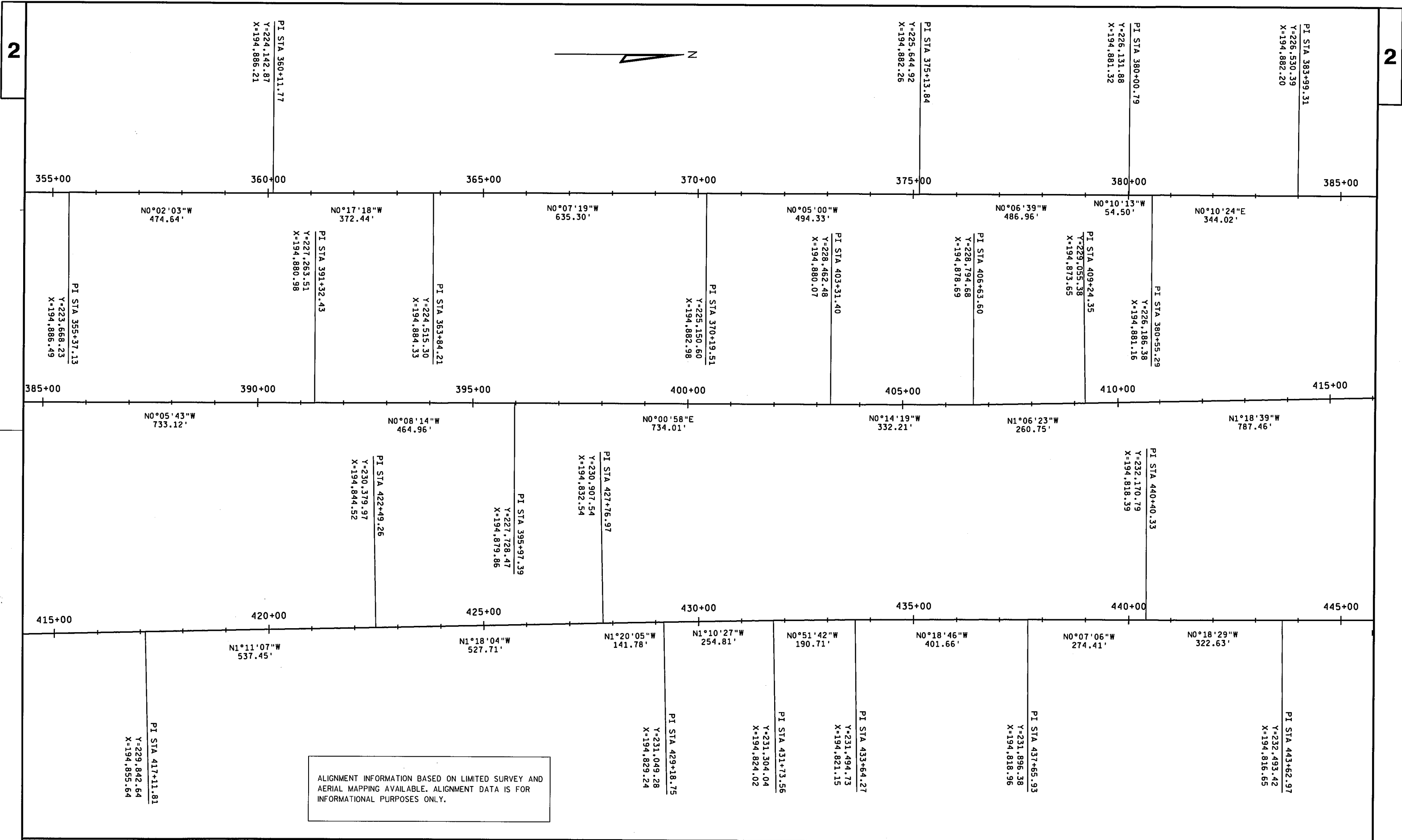
ALIGNMENT DIAGRAM

SHEET NO: 10

E



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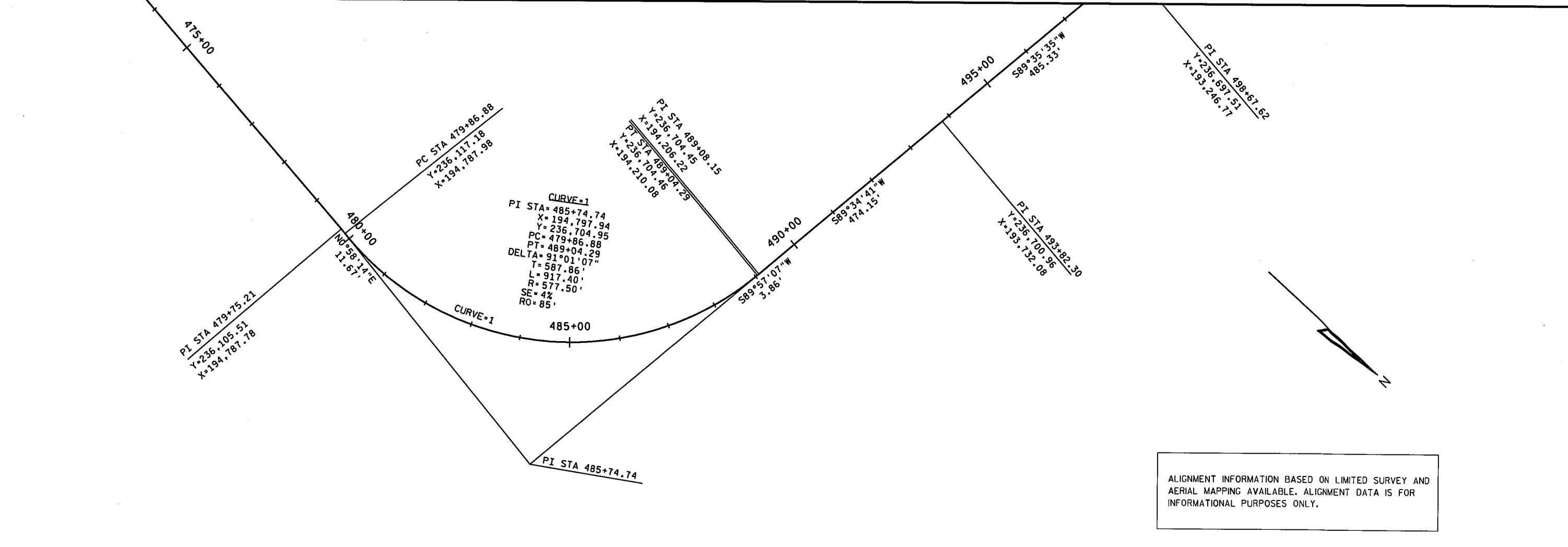
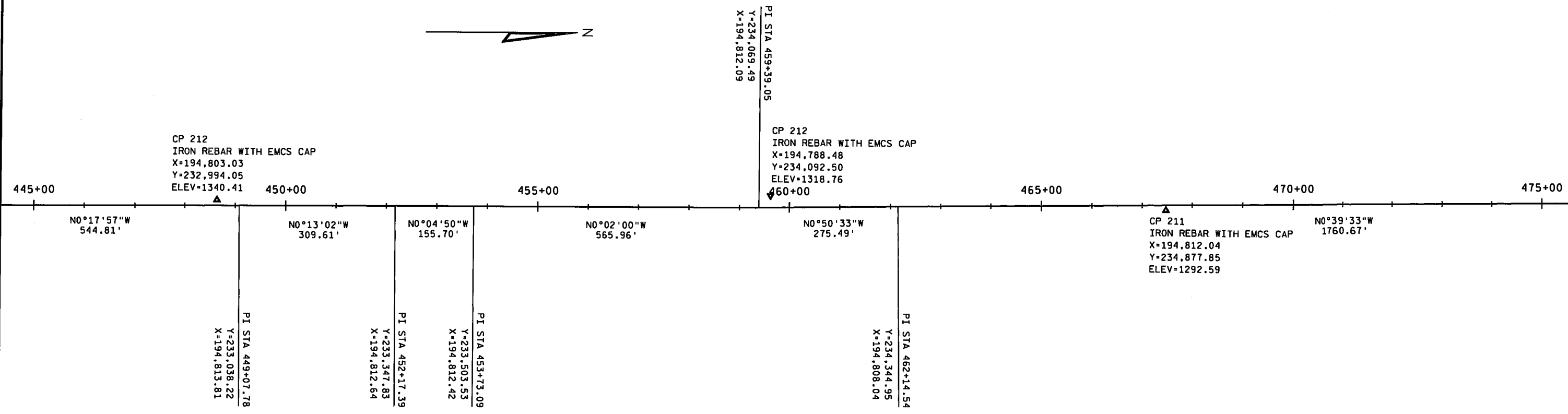
HWY: CTH H

COUNTY: MARATHON

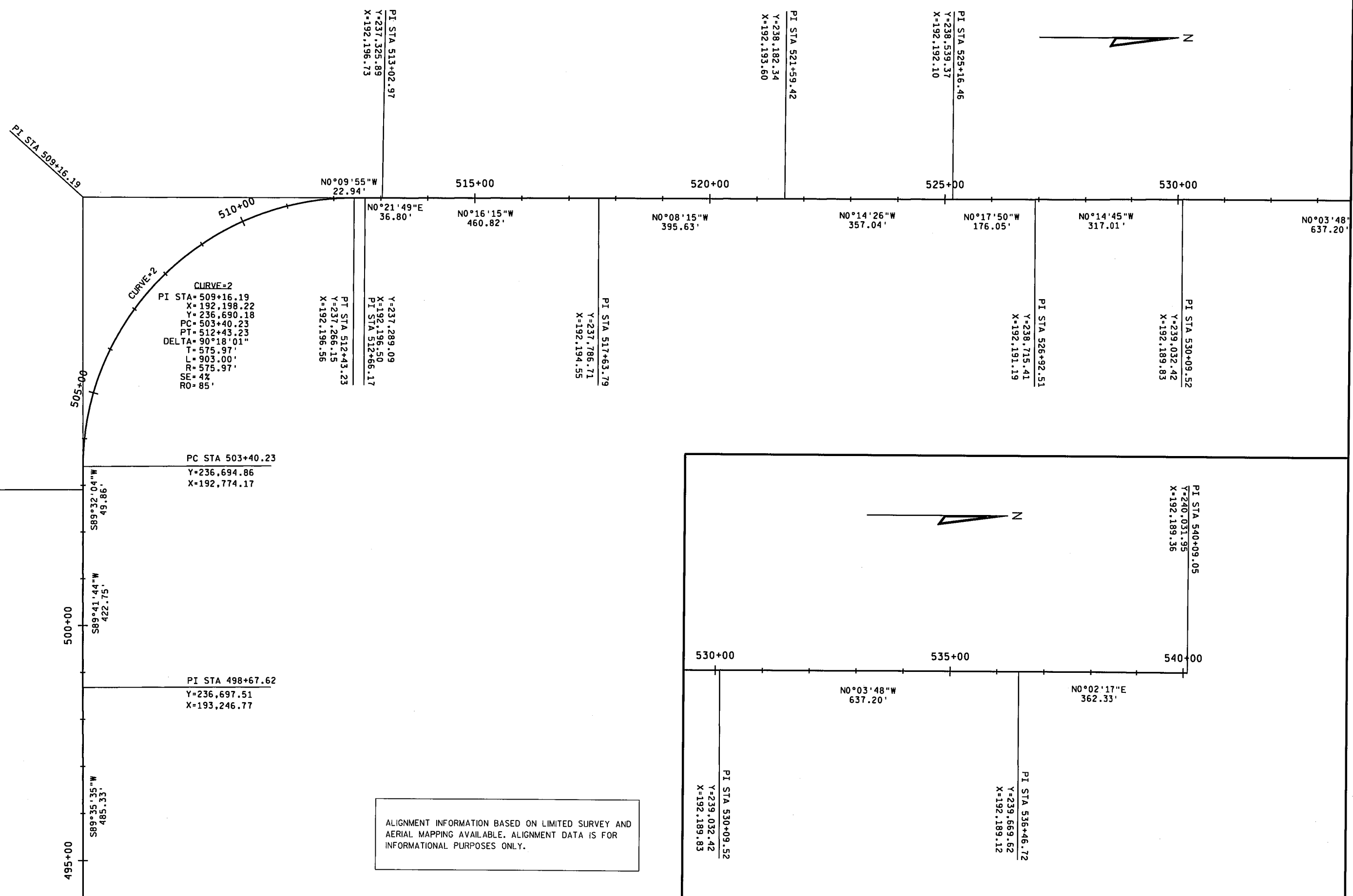
ALIGNMENT DIAGRAM

SHEET NO: 12

E



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3

REMOVING ASPHALTIC SURFACE

STATION	LOCATION	204.010 SY
MAINLINE		
88+00	LT & RT	245
375+13	LT & RT	245
376+40	LT & RT	245
540+09	LT & RT	245
DRIVEWAYS		
	LT & RT	170
TOTAL		1,150

REMOVING ASPHALTIC SURFACE BUTT JOINTS

INTERSECTION	LOCATION	204.0115 SY
CTH U	LT & RT	270
CHERRY LANE	LT & RT	125
W 20TH STREET	RT	125
TOTAL		520

EXCAVATION SUMMARY

STATION - STATION	205.0100 EXCAVATION COMMON CY	FILL (EXP.) CY	WASTE CY
456+00 - 460+00	1,088	0	1,088
TOTAL	1,088	0	1,088

BASE AGGREGATE DENSE ITEMS

STATION - STATION	305.0120 1-1/4 INCH TON	305.0110 3/4 INCH TON	301.0100S OMP TON
MAINLINE			
88+00 - 190+00	4,760	1,890	6,650
190+00 - 460+00	16,575	4,930	21,505
460+00 - 540+09	2,315	1,485	3,800
SIDE ROADS			
	225	--	225
DRIVEWAYS			
	1,025	--	1,025
TOTAL	24,900	8,305	33,205

PULVERIZE AND RELAY

STATION - STATION	LOCATION	325.0100 SY
88+00 - 190+00	LT	37,400
190+00 - 456+00	LT	97,535
460+00 - 540+09	LT	29,370
TOTAL		164,305

PULVERIZE AREA IS ESTIMATED AT 33' WIDE AVERAGE OVER THE PROJECT LENGTH

3

HMA PAVEMENT ITEMS

STATION - STATION	455.0105 ASPHALTIC MATERIAL PG58-28 TON	460.1103 HMA PAVEMENT TYPE E-3 TON	460.3000 OMP HMA MIXTURE TON
88+00 - 190+00	404	6,735	6,735
190+00 - 460+00	1,075	17,915	17,915
460+00 - 540+09	282	4,700	4,700
SIDE ROADS & DRIVEWAYS	6	100	100
TOTAL	1,761	29,350	29,350

PG 58-28 MATERIAL ESTIMATED AT 6%

RESTORATION ITEMS

LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0130 MIX NO. 30 LBS	630.0200 SEEDING TEMPORARY LBS
CTH H					
456+00 - 460+00	650	650	0.5	12	18
UNDISTRIBUTED	150	150	0.5	3	7
TOTAL	800	800	1.0	15	25

SILT FENCE ITEMS

STATION - STATION	LOCATION	628.1504 LF	628.1520 MAINTENANCE LF
CTH H			
456+00 - 457+50	RT	150	150
UNDISTRIBUTED*	LT & RT	1,000	1,000
TOTAL		1,150	1,150

* FOR USE AS REQUIRED ADJACENT TO WETLAND AREAS

EROSION CONTROL

STATION - STATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
CTH H		
88+00 - 540+09	1	1
UNDISTRIBUTED	1	1
TOTAL	2	2

DITCH CHECK ITEMS

STA - STA	628.7504 TEMPORARY DITCH CHECKS LF	628.7550 CULVERT PIPE DITCH CHECKS EACH
CTH H		
456+00 - 460+00	125	2
UNDISTRIBUTED	100	8
TOTAL	225	10

TRAFFIC CONTROL ITEMS

LOCATION	DURATION DAYS*	643.0420 BARRICADES TYPE III EACH*	643.0705 WARNING LIGHTS TYPE A EACH*	643.0900 SIGNS EACH*	DAYS
MAINLINE					
CTH H AT STH 29	45	4	180	16	720
CTH H NORTH OF CORN ROAD	45	4	180	16	720
SIDERoads					
PINE LANE	45	2	90	4	180
CTH U	45	4	180	8	360
CHERRY LANE/WEST 20TH STREET	45	4	180	8	360
LOVERS LANE/WEST 21ST STREET	45	4	180	8	360
WEST 23RD STREET	45	2	90	4	180
TOWNLINE ROAD	45	4	180	8	360
CTH A	45	4	180	8	360
REIMER ROAD SOUTH	45	2	90	4	180
REIMER ROAD NORTH	45	2	90	4	180
CORN ROAD	45	2	90	4	180
TOTAL			1,710		4,140

* FOR INFORMATIONAL PURPOSES ONLY

PERMANENT SIGNING ITEMS

SIGN NO	SIGN CODE	SIGN SIZE INCHES	637.0202 SIGNS REFLECTIVE TYPE II SF	634.0614 WOOD POSTS 4X6-INCH X 14 FT EACH	REMARKS
1	W3-1	36 X 36	9.00	1	CTH A
2	RI-1	30 X 30	6.25	1	CTH A
3	RI-1	30 X 30	6.25	1	CTH A
4	W3-1	36 X 36	9.00	1	CTH A
TOTAL			30.50	4	

PAVEMENT MARKING EPOXY ITEMS

STATION - STATION	LOCATION	646.0106 4-INCH EPOXY WHITE LF	646.0106 4-INCH EPOXY YELLOW LF	648.0100 LOCATING NO PASSING ZONES MI
88+00 - 540+09	LT & RT	90,450	70,245	8.6
TOTAL		90,450	70,245	8.6

CALCULATIONS BASED ON EXISTING PAVEMENT MARKING

CONSTRUCTION STAKING ITEMS

STATION - STATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.8000 RESURFACING REFERENCE LF
88+00 - 190+00	--	--	10,200
190+00 - 456+00	--	--	26,600
456+00 - 460+00	400	400	--
460+00 - 540+09	--	--	8,009
TOTAL	400	400	44,809

SAWING PAVEMENT ITEMS

STATION	LOCATION	690.0100 EXISTING PAVEMENT LF	690.0200 CONCRETE PAVEMENT FULL DEPTH LF
88+00	LT & RT	32	--
375+13	LT & RT	32	--
376+39	LT & RT	32	--
540+09	LT & RT	32	--
DRIVEWAYS	LT & RT	150	40
TOTAL		278	40

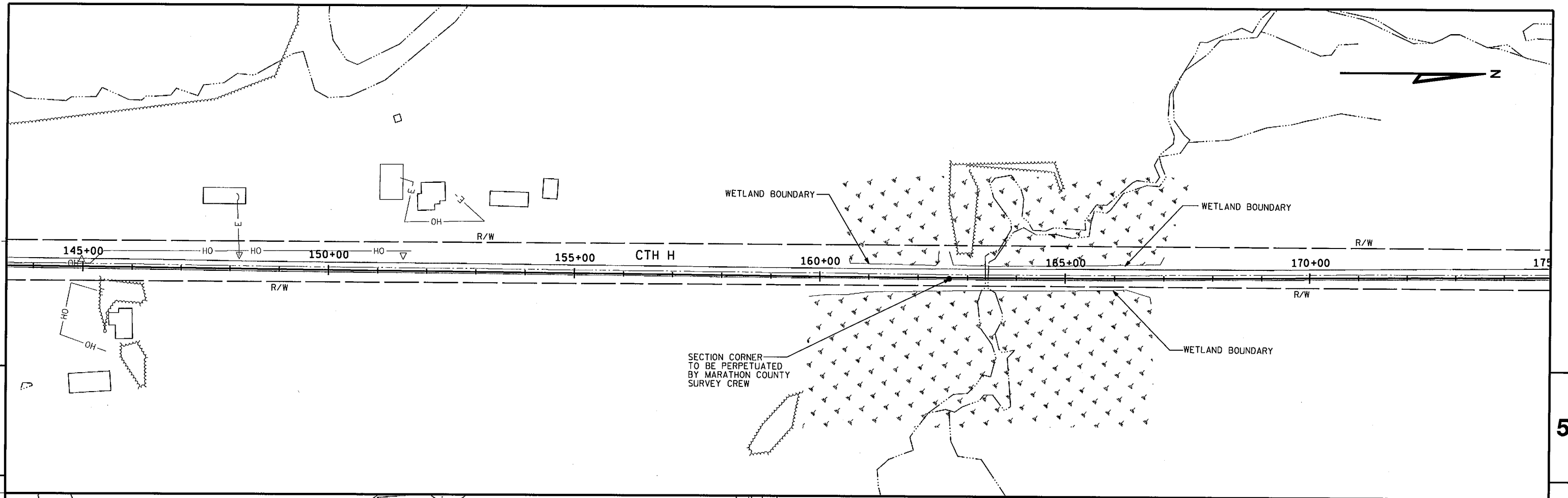
PROJECT NO: 9958-01-72

HWY: CTH H

COUNTY: MARATHON

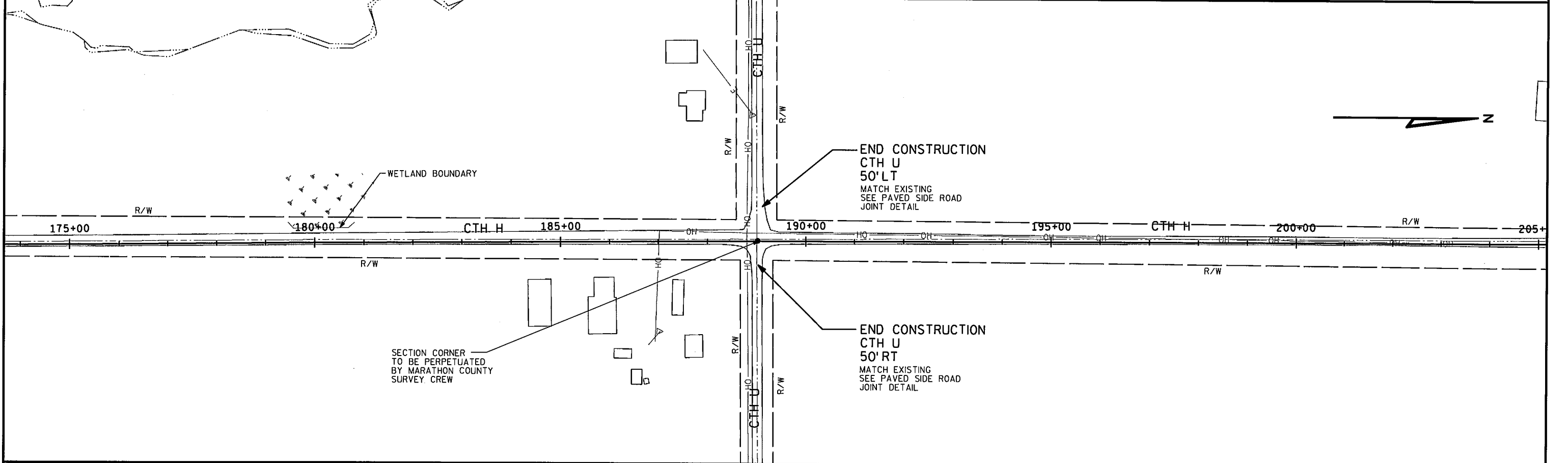
MISCELLANEOUS QUANTITIES

SHEET 15 E

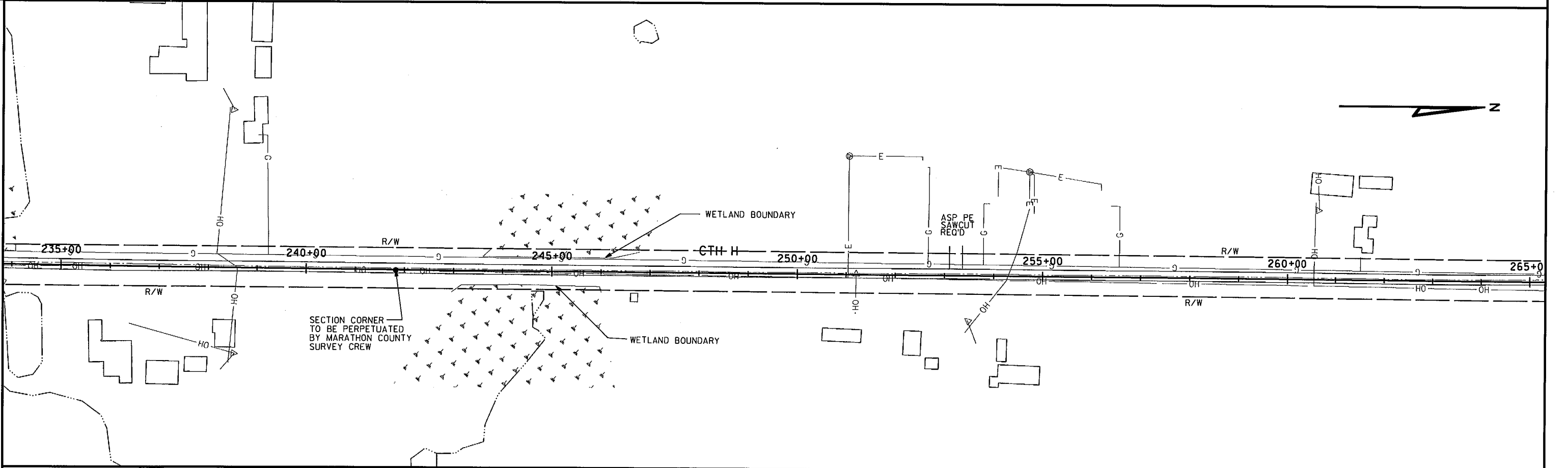
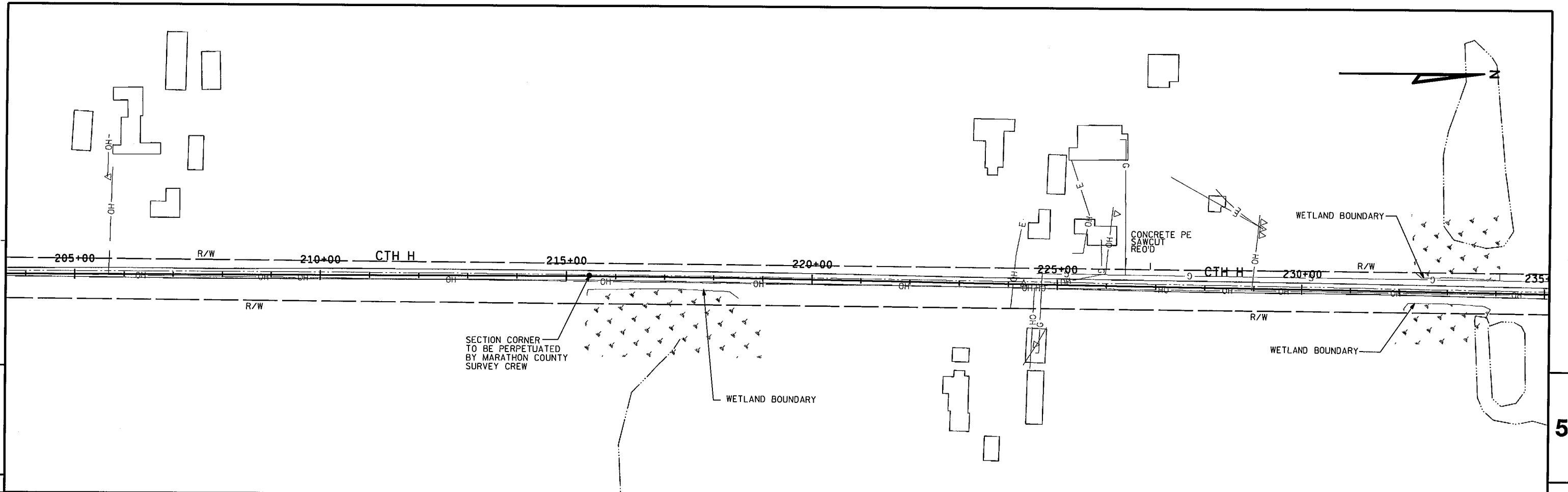


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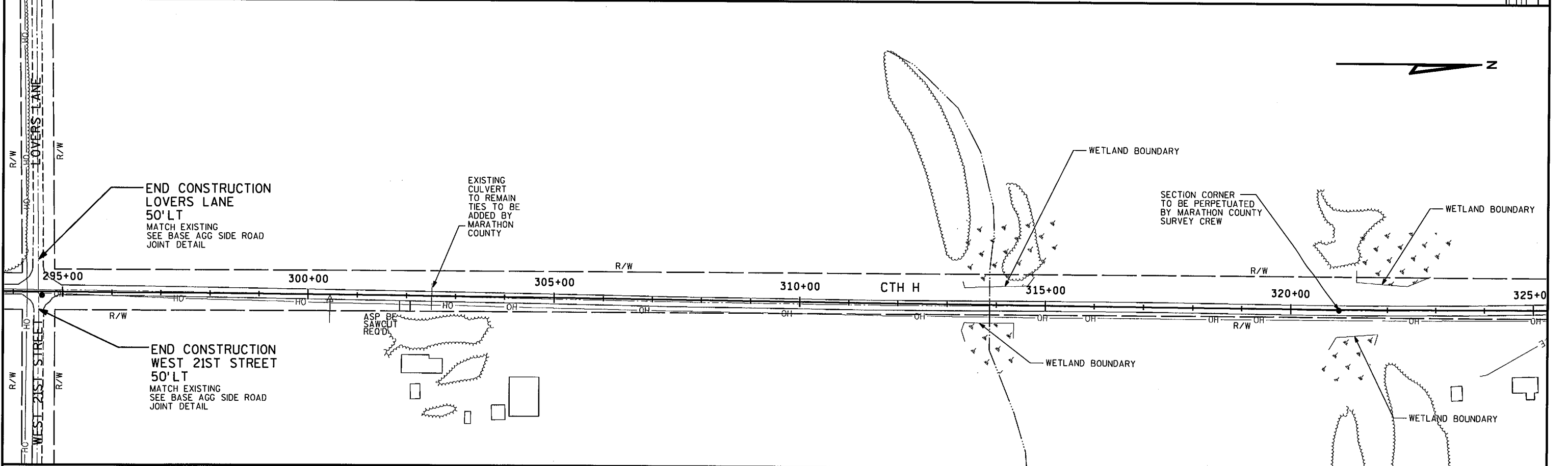
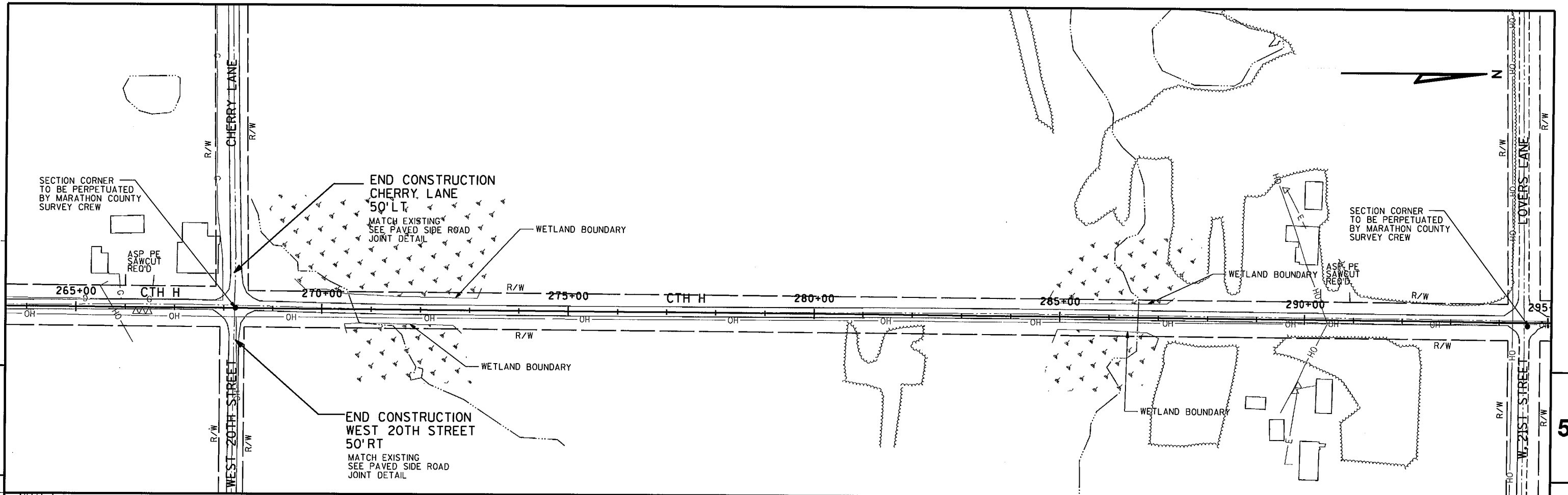
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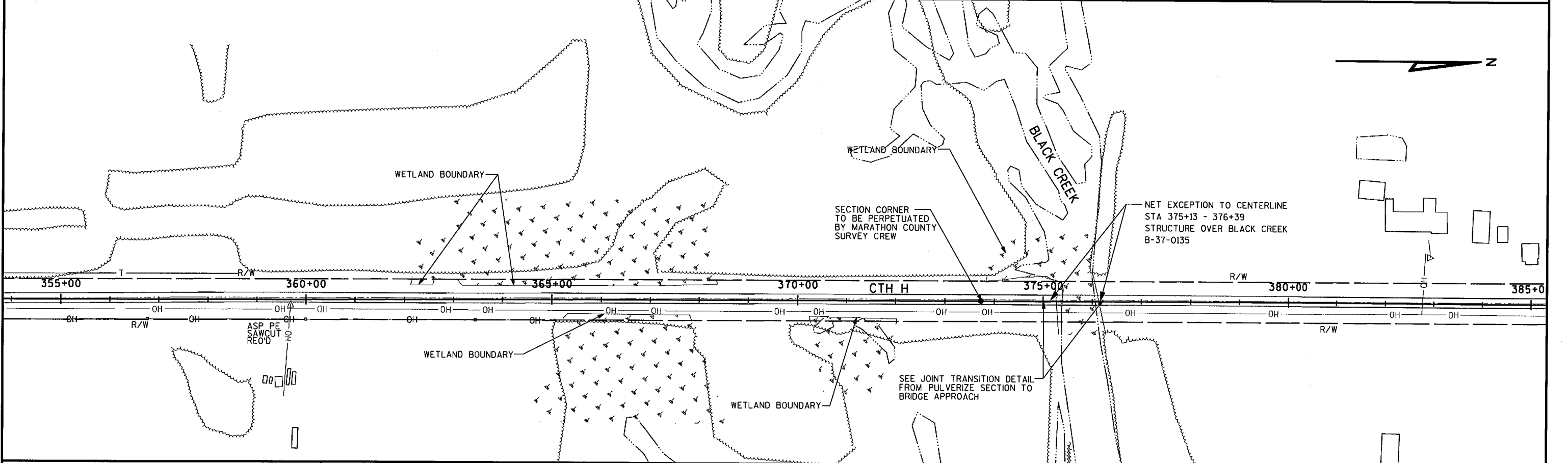
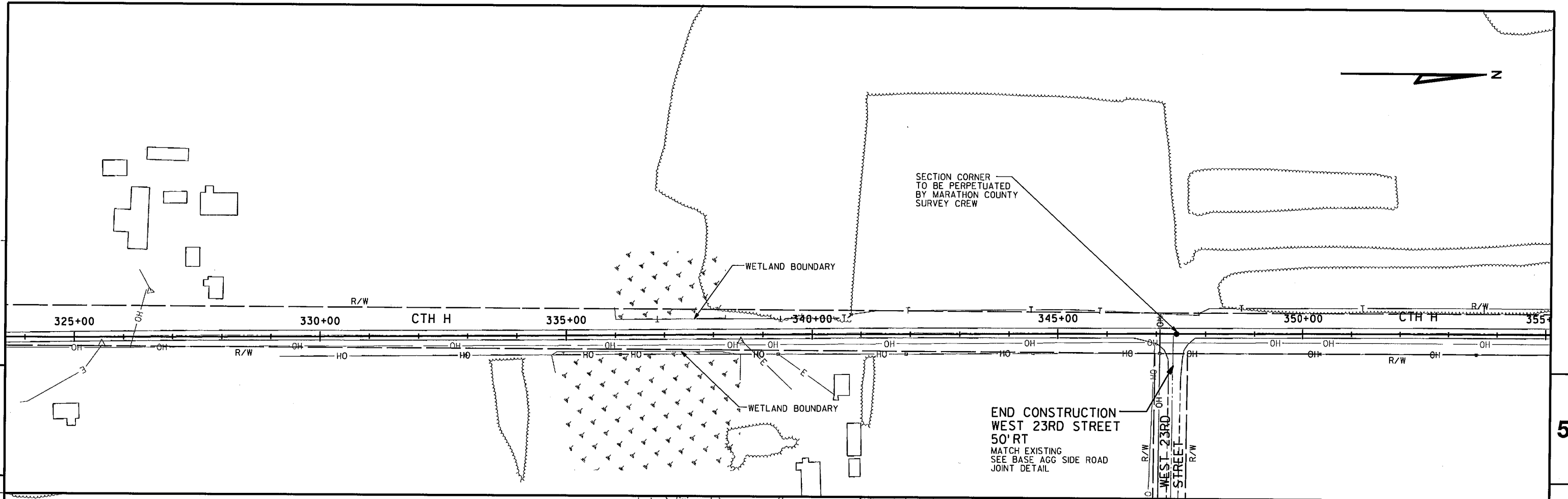
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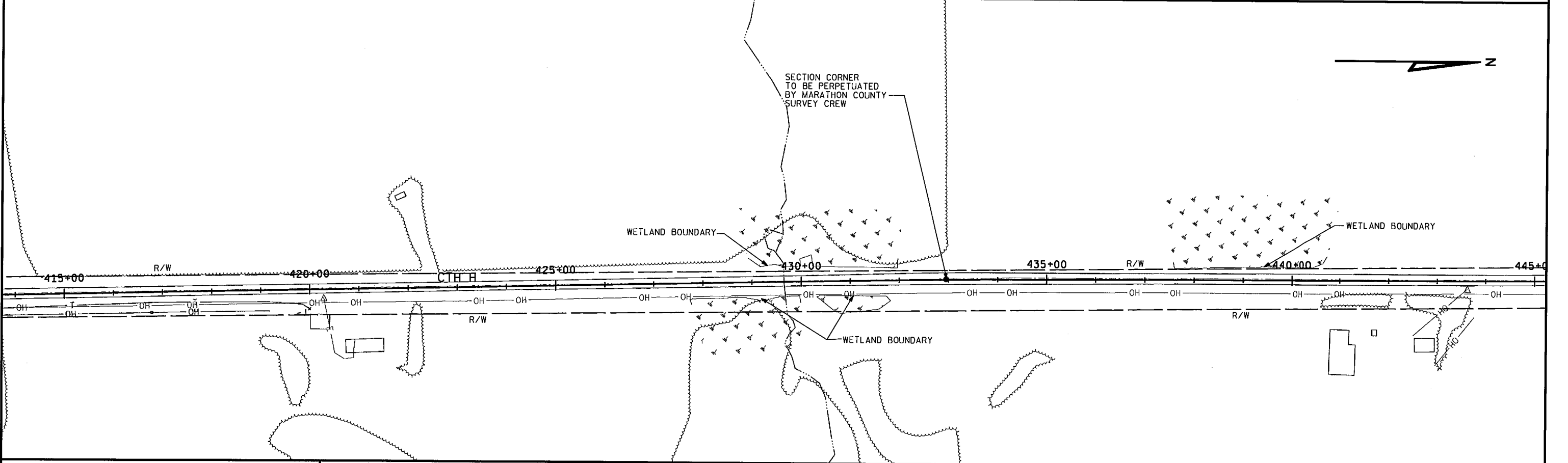
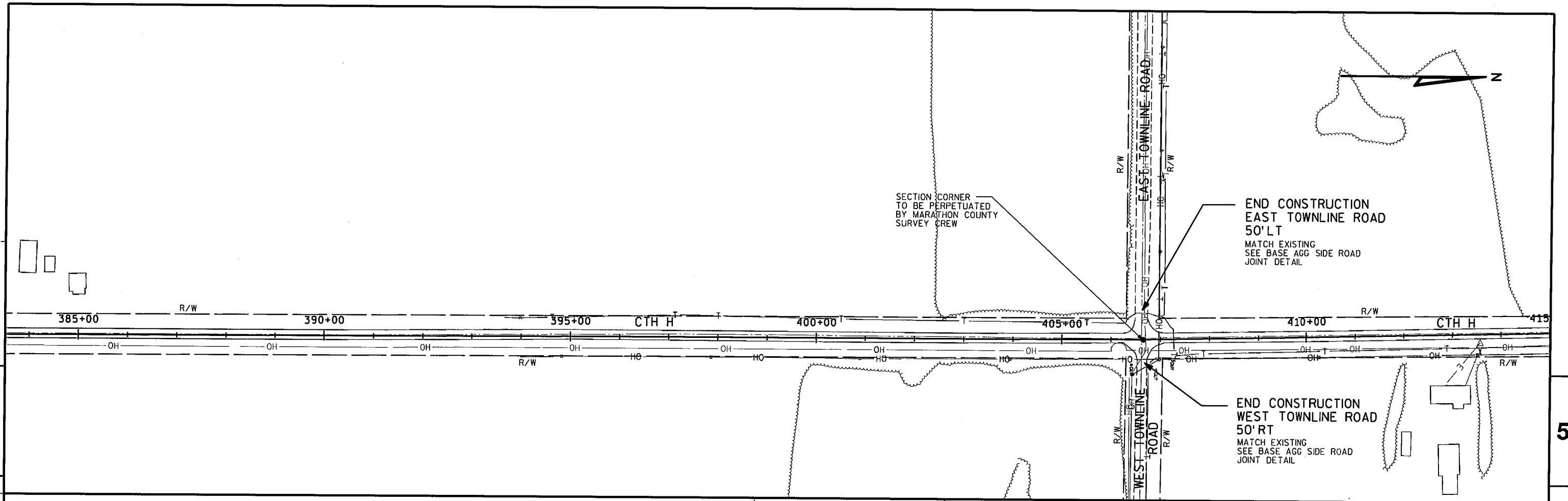
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PROJECT NO: 9958-01-72	HWY: CTH H	COUNTY: MARATHON	PLAN	SHEET 19 E
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PROJECT NO: 9958-01-72	HWY: CTH H	COUNTY: MARATHON	PLAN	SHEET 20 E
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PROJECT NO: 9958-01-72	HWY: CTH H	COUNTY: MARATHON	PLAN	SHEET 21	E
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SEE INTERSECTION DETAIL &
PLAN AND PROFILE SHEET FOR
IMPROVEMENTS AT CTH A

END CONSTRUCTION
CTH A
37' LT
MATCH EXISTING
SAWCUT REQUIRED

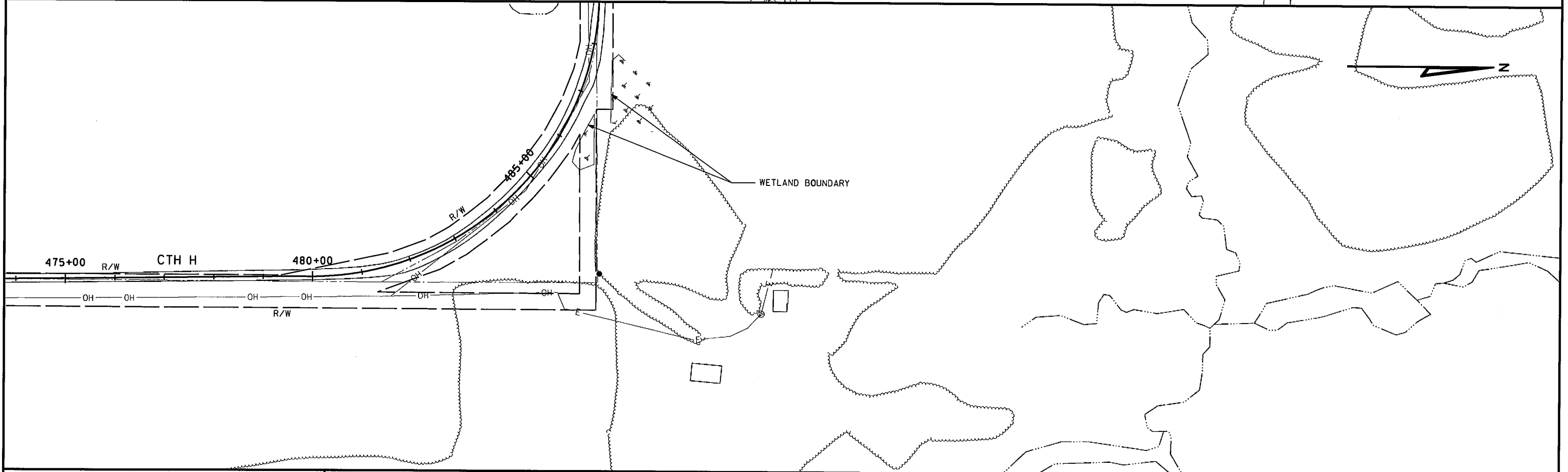
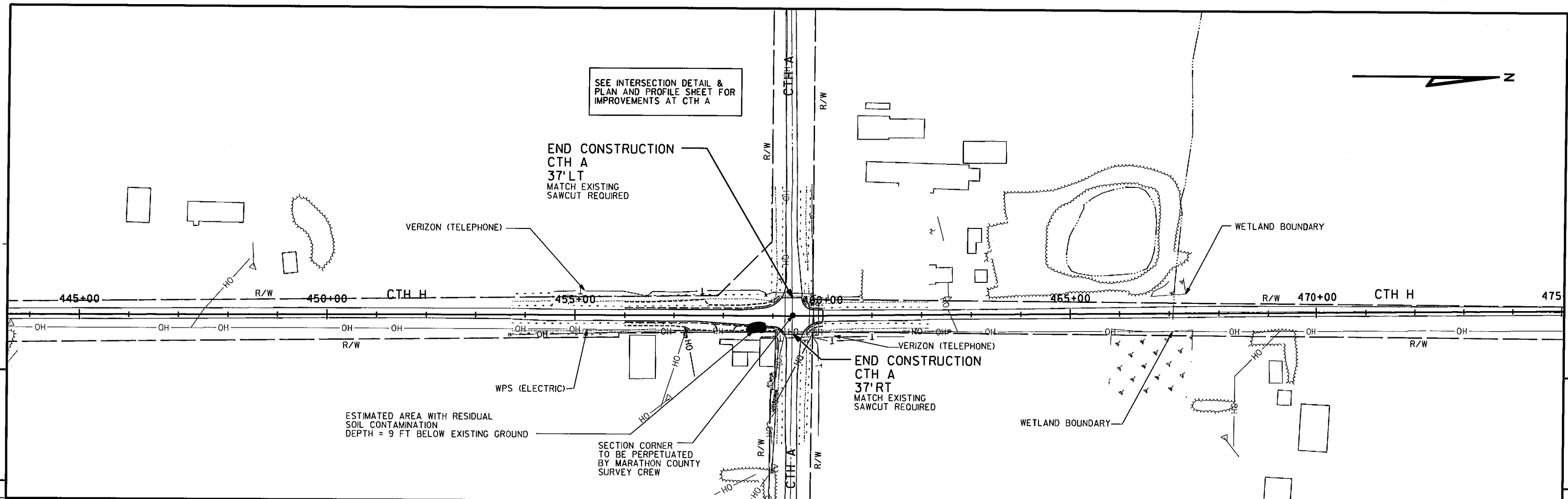
END CONSTRUCTION
CTH A
37' RT
MATCH EXISTING
SAWCUT REQUIRED

ESTIMATED AREA WITH RESIDUAL
SOIL CONTAMINATION
DEPTH = 9 FT BELOW EXISTING GROUND

SECTION CORNER
TO BE PERPETUATED
BY MARATHON COUNTY
SURVEY CREW

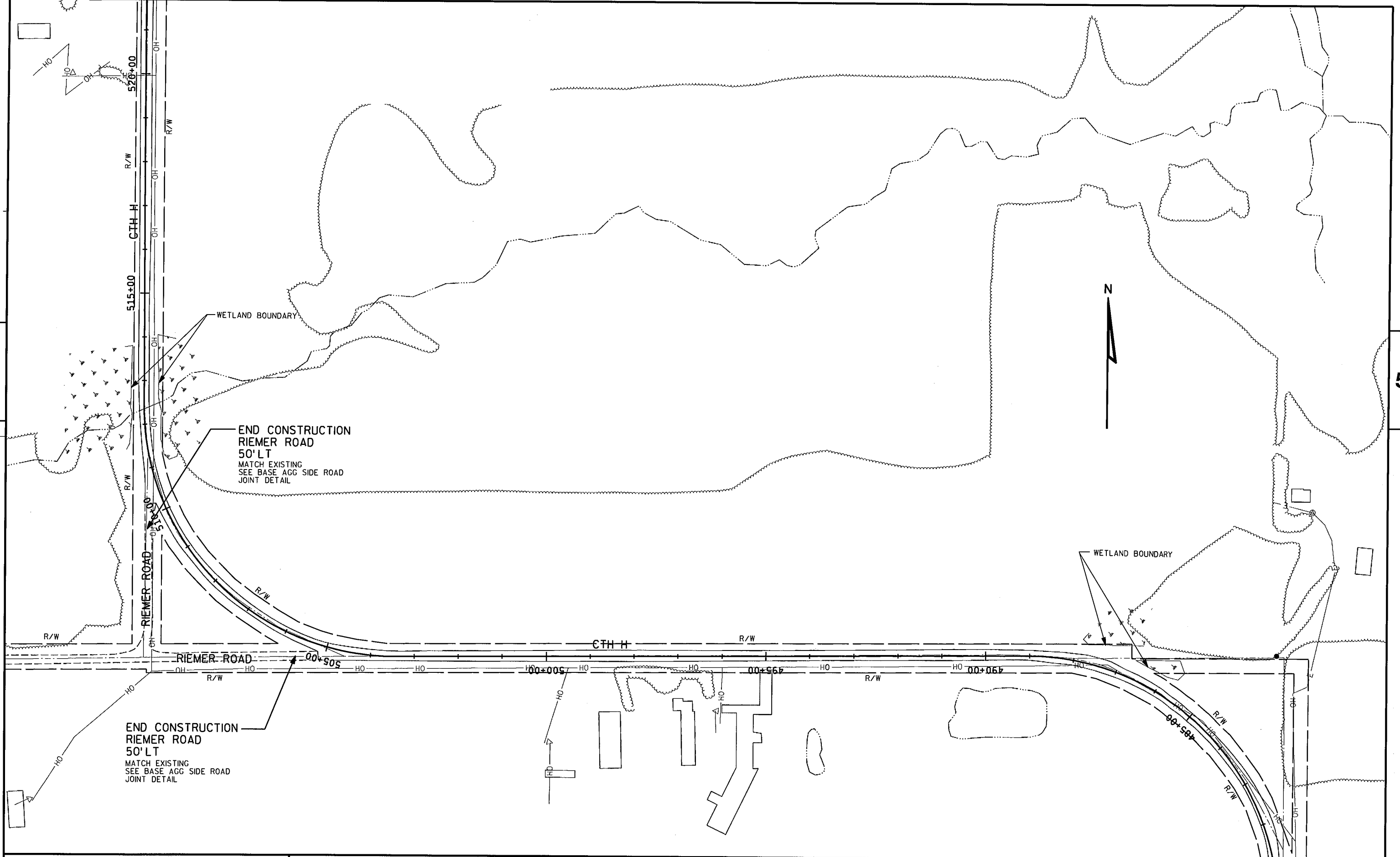
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5



PROJECT NO: 9958-01-72 HWY: CTH H COUNTY: MARATHON PLAN SHEET 22 E

FILE NAME : p:\42xx\4216\plan\Plan & Profile\050107..pp.dgn PLOT DATE : 04/28/2006 PLOT BY : \$\$\$...plotuser...\$\$ PLOT NAME : PLOT SCALE : \$\$\$...plotscale.....\$\$ WISDOT/CADDS SHEET 44



5

5

PROJECT NO: 9958-01-72

HWY: CTH H

COUNTY: MARATHON

PLAN

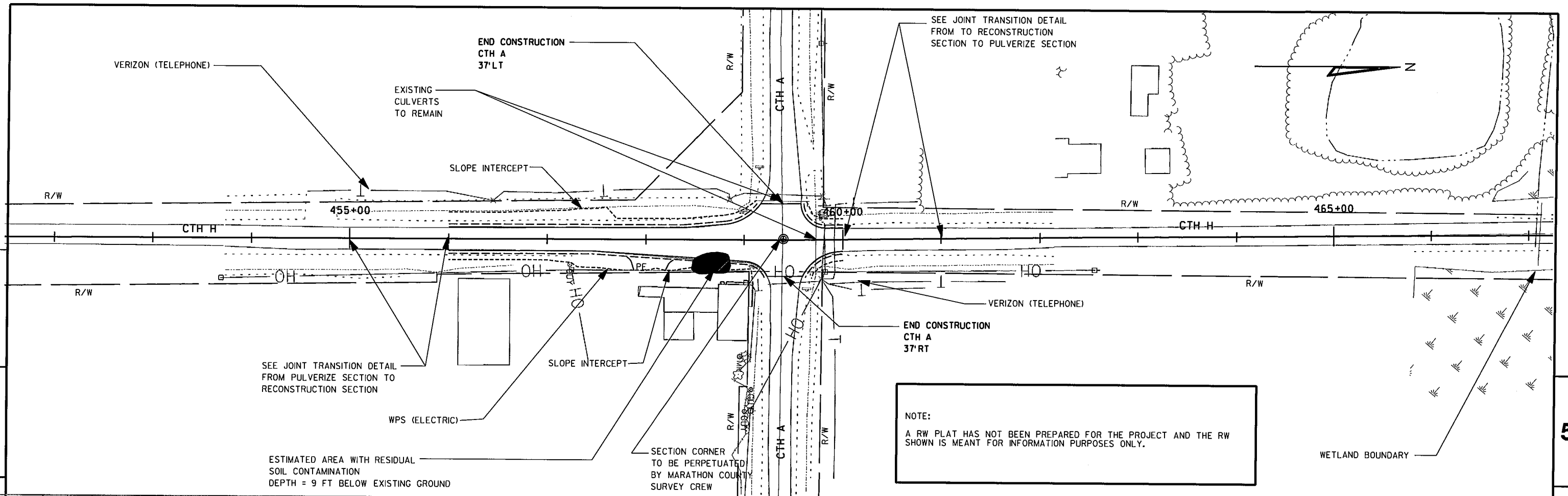
SHEET 23 E

FILE NAME : p:\42xx\4216\plan\Plan & Profile\050108_pp.dgn

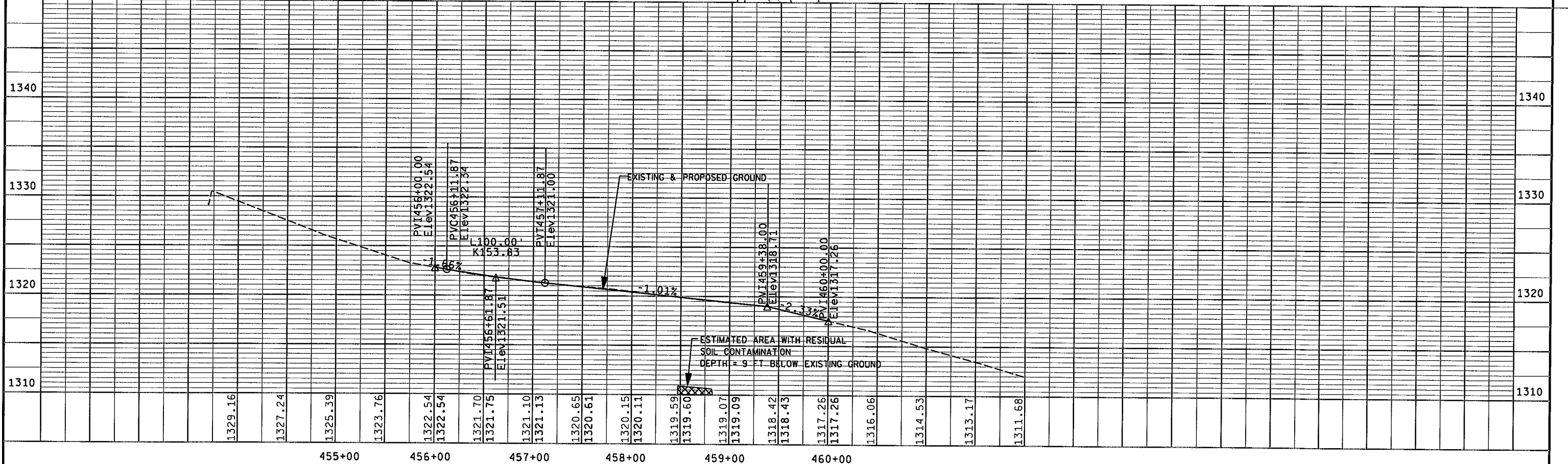
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PLOT BY : **...plotuser...** PLOT NAME :

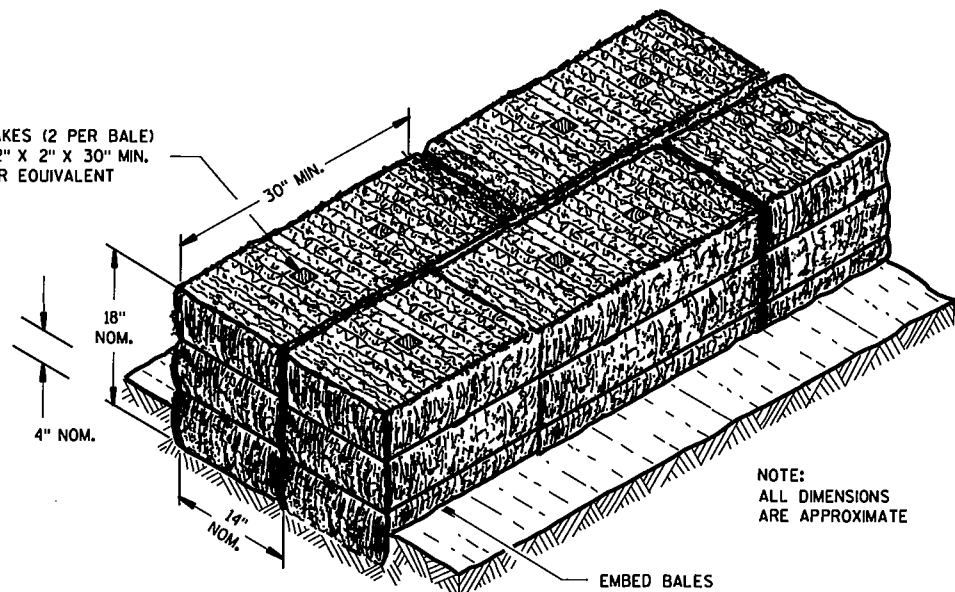
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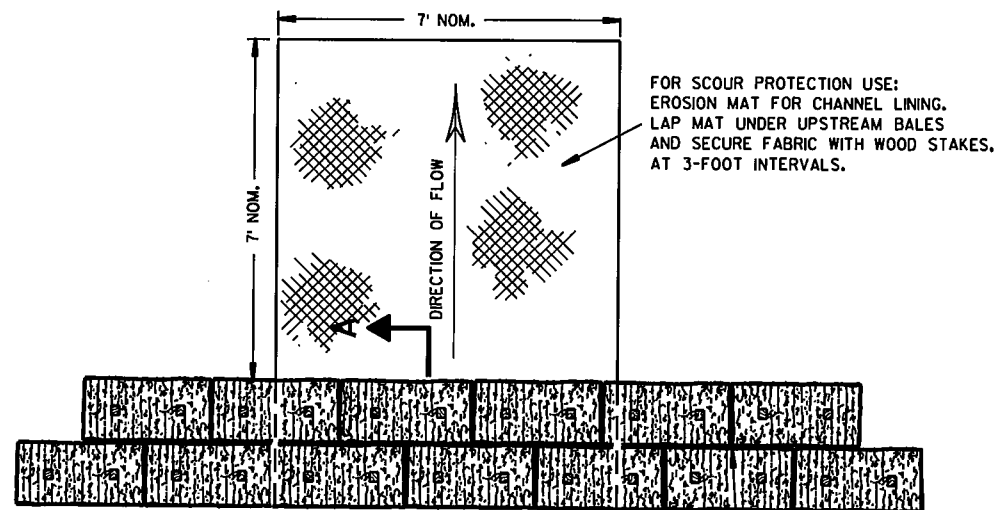
NOTE:
 A RW PLAT HAS NOT BEEN PREPARED FOR THE PROJECT AND THE RW SHOWN IS MEANT FOR INFORMATION PURPOSES ONLY.



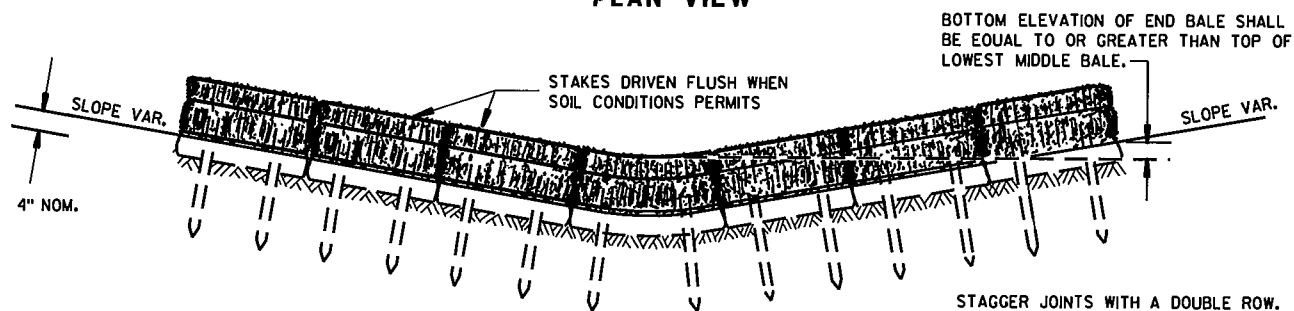
WOOD STAKES (2 PER BALE)
NOMINAL 2" X 2" X 30" MIN.
LENGTH OR EQUIVALENT



SECTION A-A



PLAN VIEW



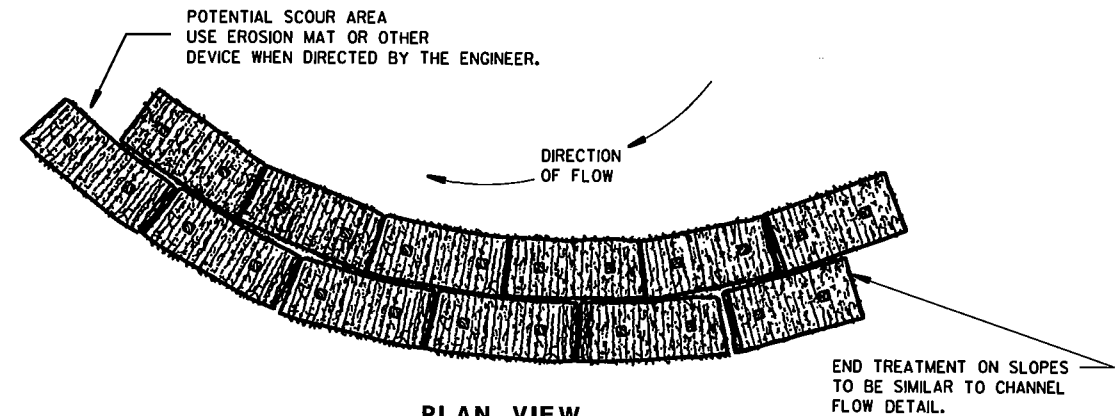
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

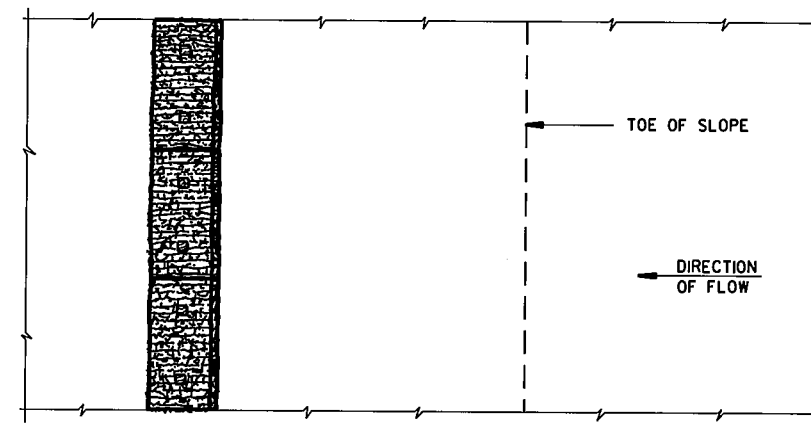
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- ① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

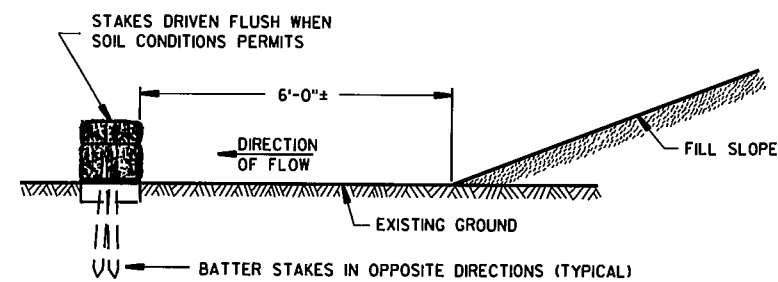


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

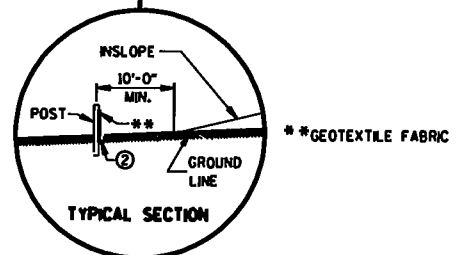
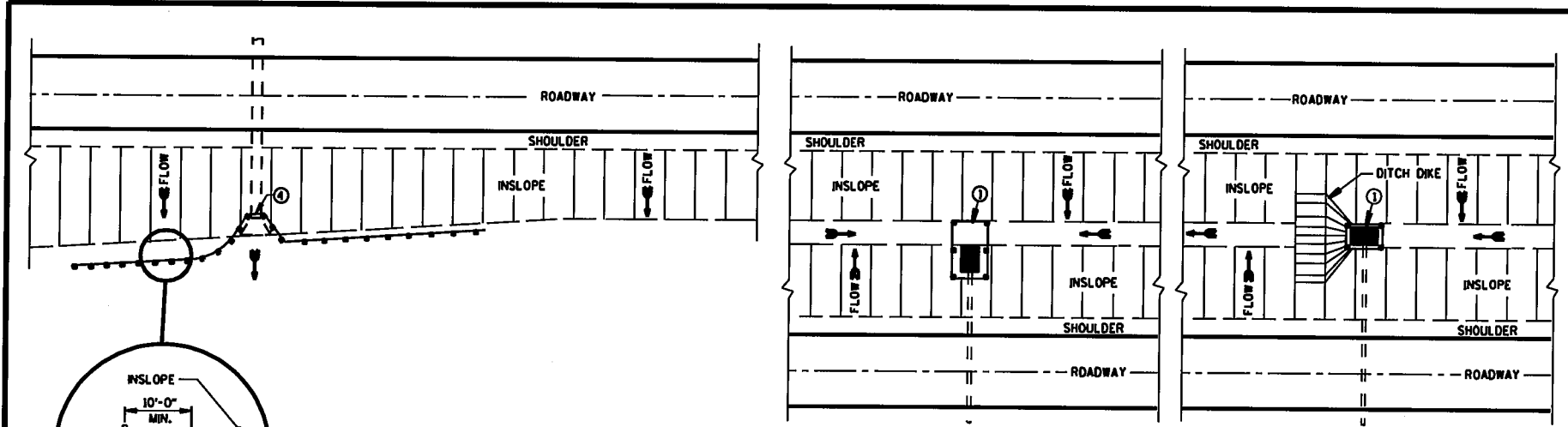
EROSION BALES FOR SHEET FLOW

**TYPICAL INSTALLATIONS OF
EROSION BALES / TEMPORARY
DITCH CHECKS**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

DATE _____ CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



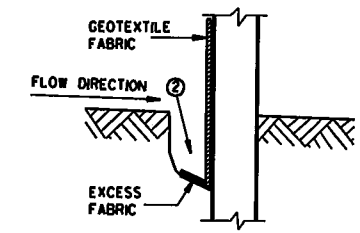
PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE

SITUATION 1 SITUATION 2
PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

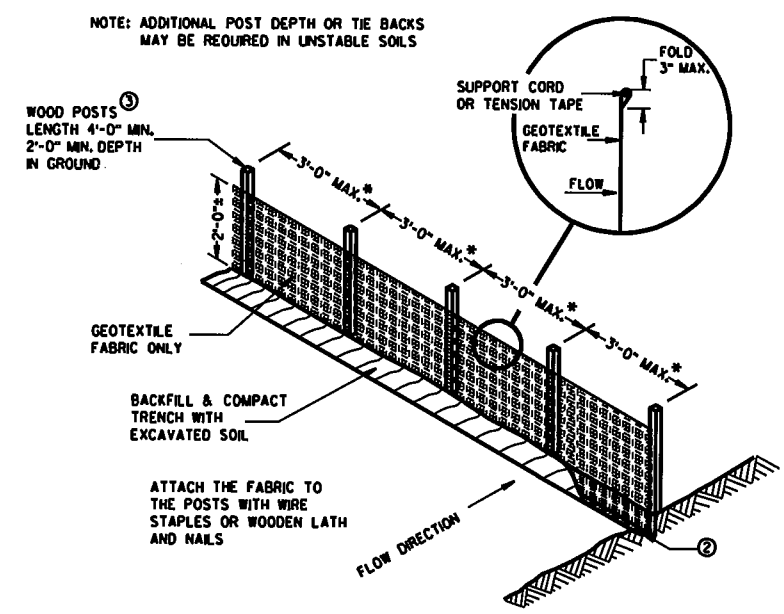
GENERAL NOTES

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

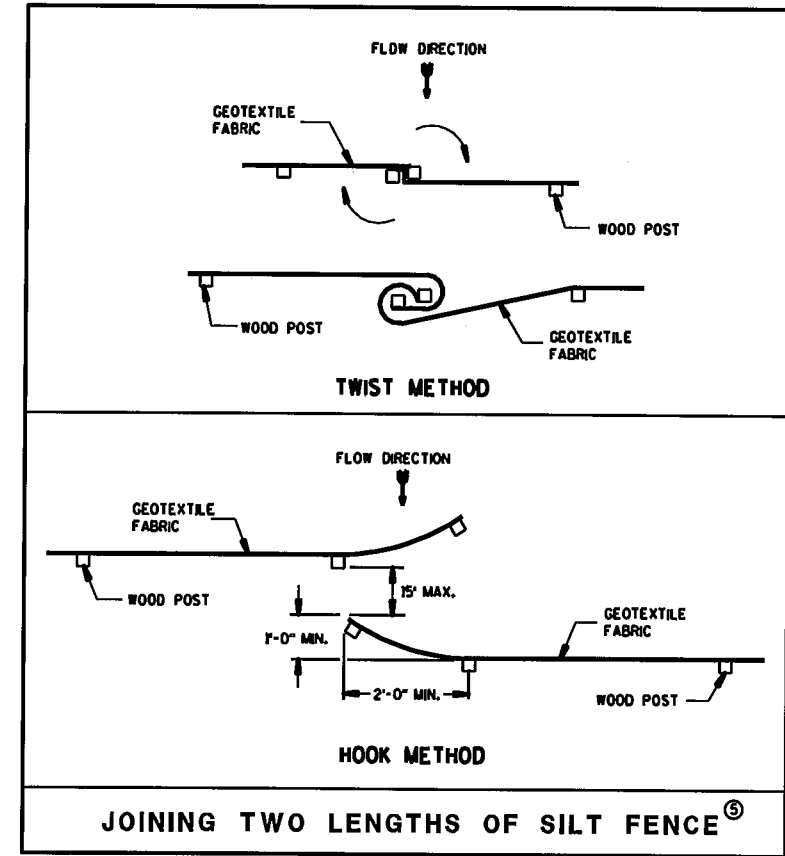
- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1/2" X 1/2" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PPE.
- 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.



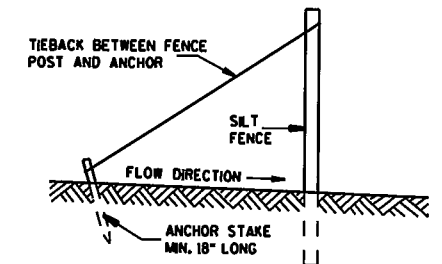
TRENCH DETAIL



SILT FENCE



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	
DATE	CHEF ROADWAY DEVELOPMENT ENGINEER
FHWA	

6

S.D.D. 8 E 9-6

S.D.D. 8 E 9-6

27


APPROVED _____
DATE _____ STATE DESIGN ENGINEER FOR HWYS


APPROVED _____
DATE _____ STATE CONST. ENGINEER FOR HWYS


S.D.D. 15 C 12-2

TWO-LANE ROADWAY

SYMBOLS

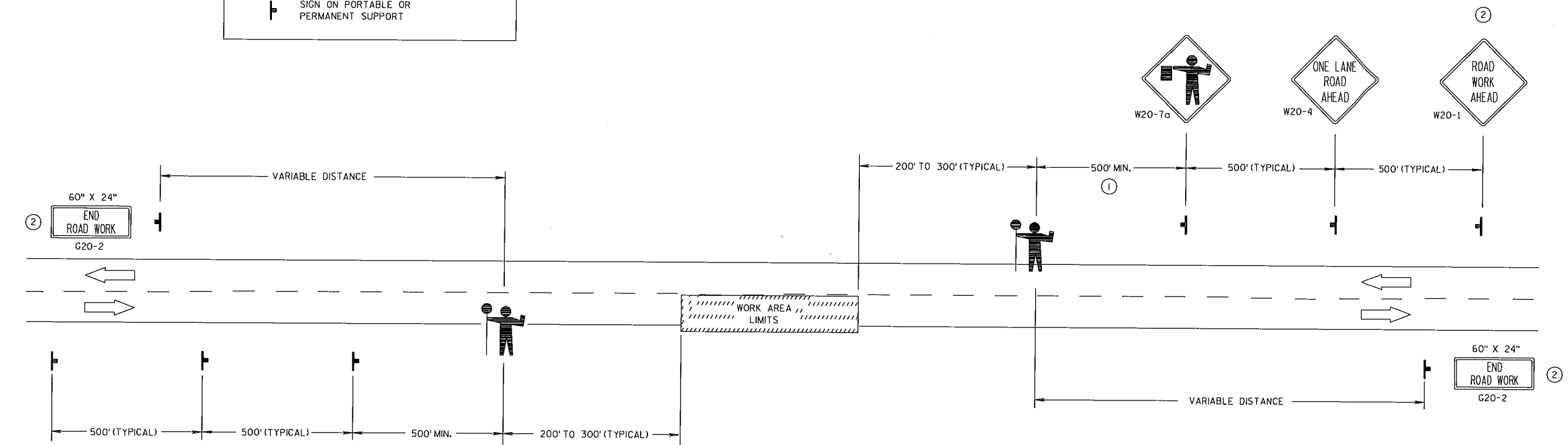
 WORK AREA

 FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

 SIGN ON PORTABLE OR PERMANENT SUPPORT



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



GENERAL NOTES

- DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.
- WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
- FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, THE "FLAGGER AHEAD", THE "ROAD WORK AHEAD" AND THE ONE LANE ROAD AHEAD" SIGNS SHALL BE COVERED OR REMOVED AND THE HIGHWAY RESTORED TO NORMAL OPERATION.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

DESIGN NOTE: (WILL NOT APPEAR ON CONTRACT PLANS)

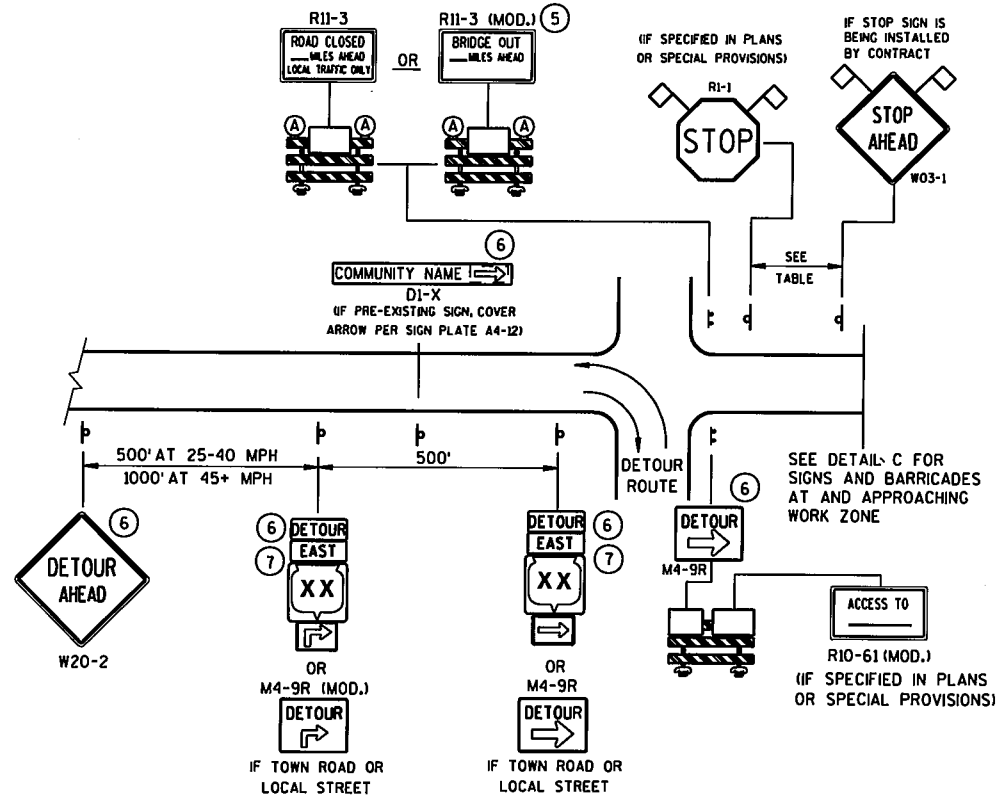
DROP OFFS OR OPEN TRENCHES ADJACENT TO ONE LANE TRAFFIC OPERATIONS SHOULD BE MARKED WITH CONES OR DRUMS. PROVIDE APPROPRIATE DETAILS AND/OR SPECIAL PROVISIONS WHEN THIS CONDITION IS EXPECTED.

THIS DETAIL IS APPROPRIATE FOR RURAL HIGH SPEED CONDITIONS. URBAN LOWER SPEED CONDITIONS REQUIRE A CLOSER SIGN SPACING.

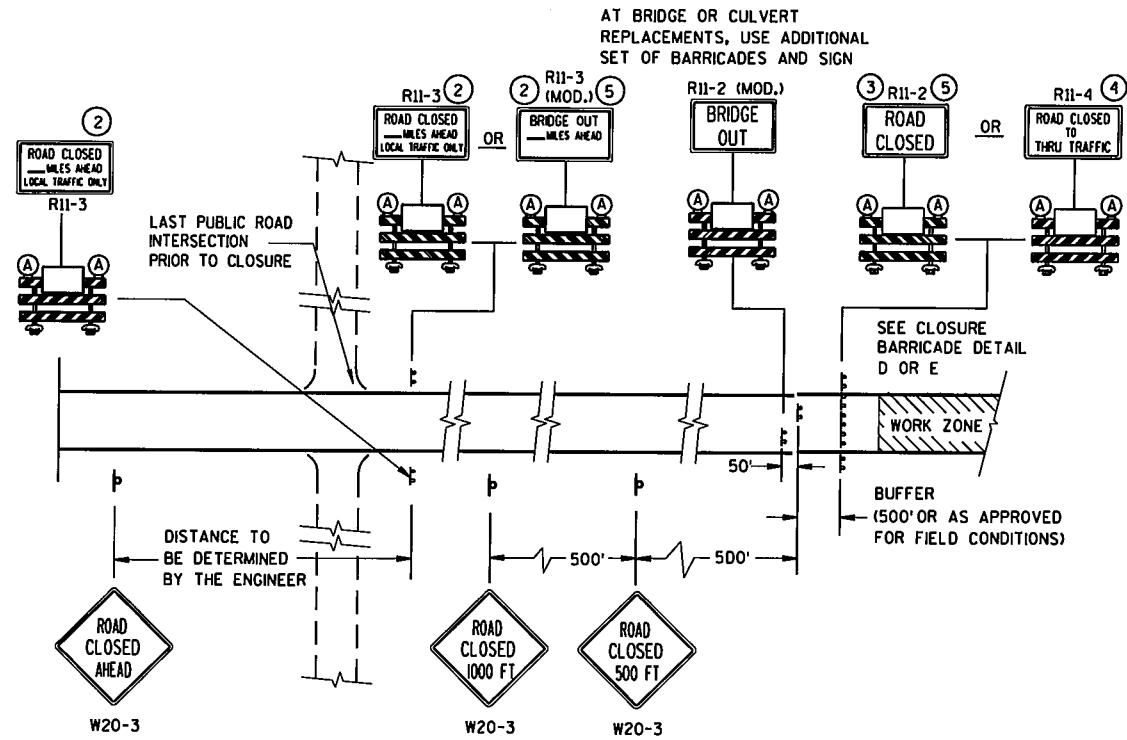
TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

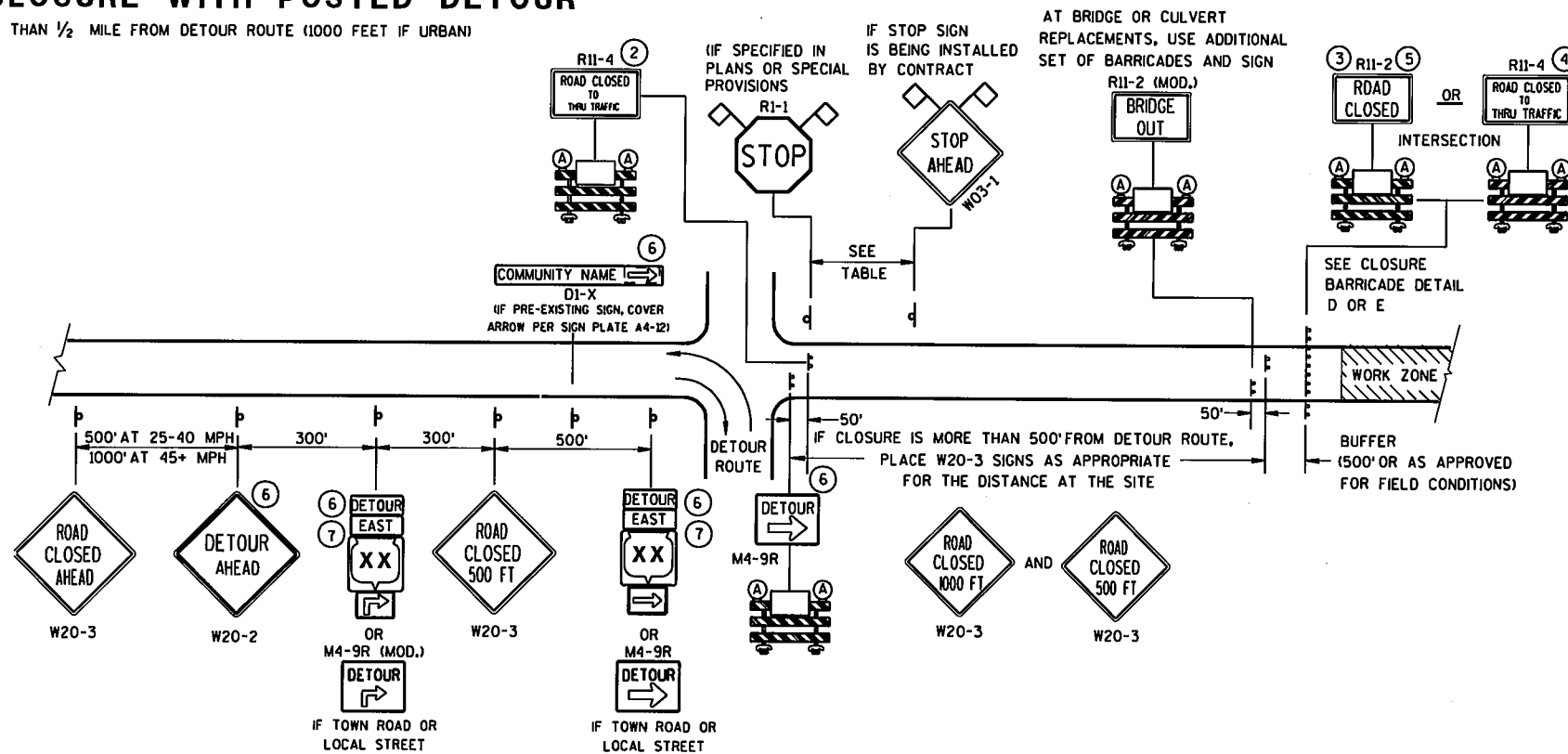
APPROVED _____
DATE _____ STATE TRAFFIC ENGINEER FOR HWYS
FHWA



DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR
 WORK ZONE GREATER THAN 1/2 MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR



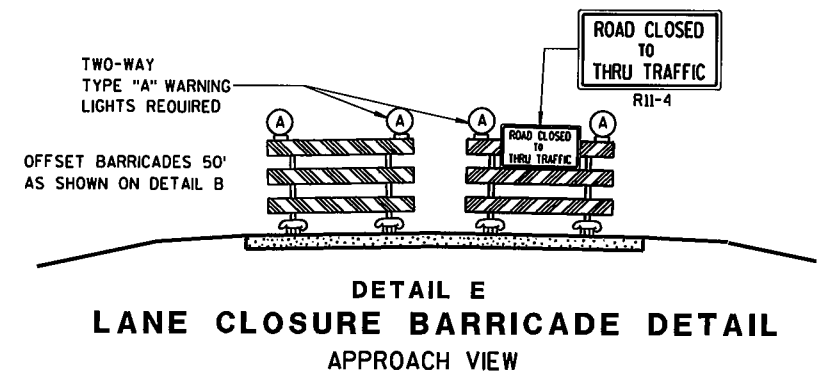
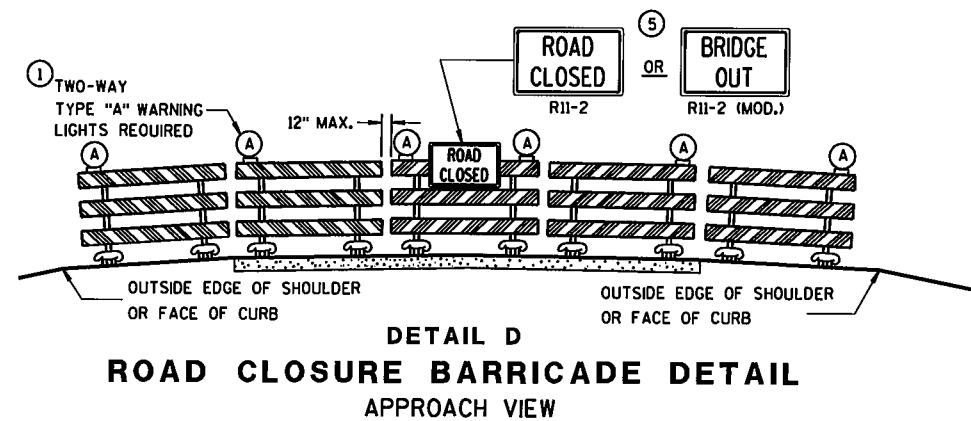
DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR
 WORK ZONE LESS THAN 1/2 MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

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 15C2-4b
 FOR GENERAL NOTES
 AND FOOTNOTES ① THROUGH ⑦

- LEGEND**
- ⌋ POST MOUNTED SIGN
 - ⌋ TYPE III BARRICADES
 - Ⓐ TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)
 - ▨ WORK ZONE
 - DETOUR EAST M4-8
 - M3-X
 - XX OR COUNTY XX OR MI-4 MI-5A MI-6
 - OR M05-1 M06-1
 - ◇ FLAGS, 15" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES
 STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION



SEE SDD 15C2-4a 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.

THE REFLECTIVE SHEETING USED ON R11-2, R11-3, R11-4, R10-61 AND R1-1 SIGNS SHALL COMPLY WITH SUBSECTION 637.2.2.2 OF THE STANDARD SPECIFICATIONS.

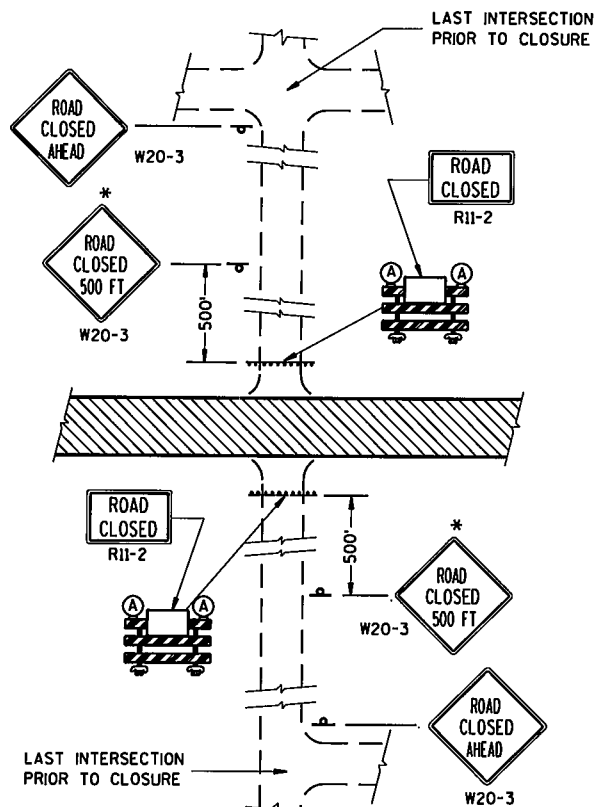
"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

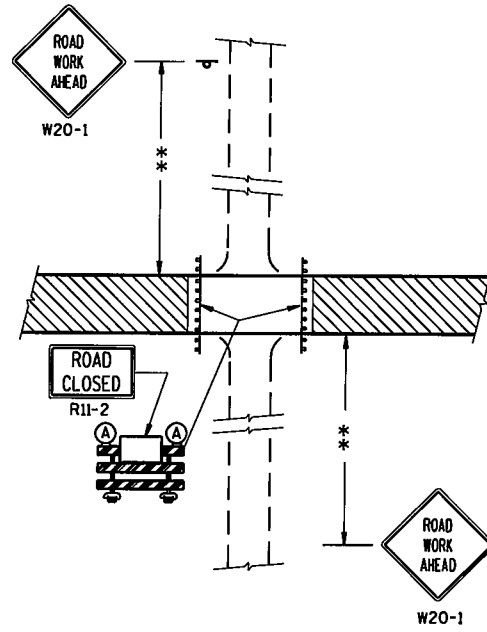
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X AND M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 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.

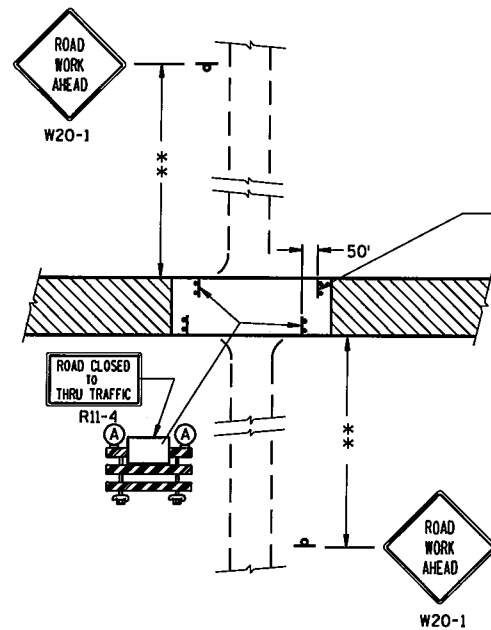
BARRICADES AND SIGNS FOR MAINLINE CLOSURES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED _____	
DATE _____	CHEF SIGNS AND MARKING ENGINEER
FHWA	



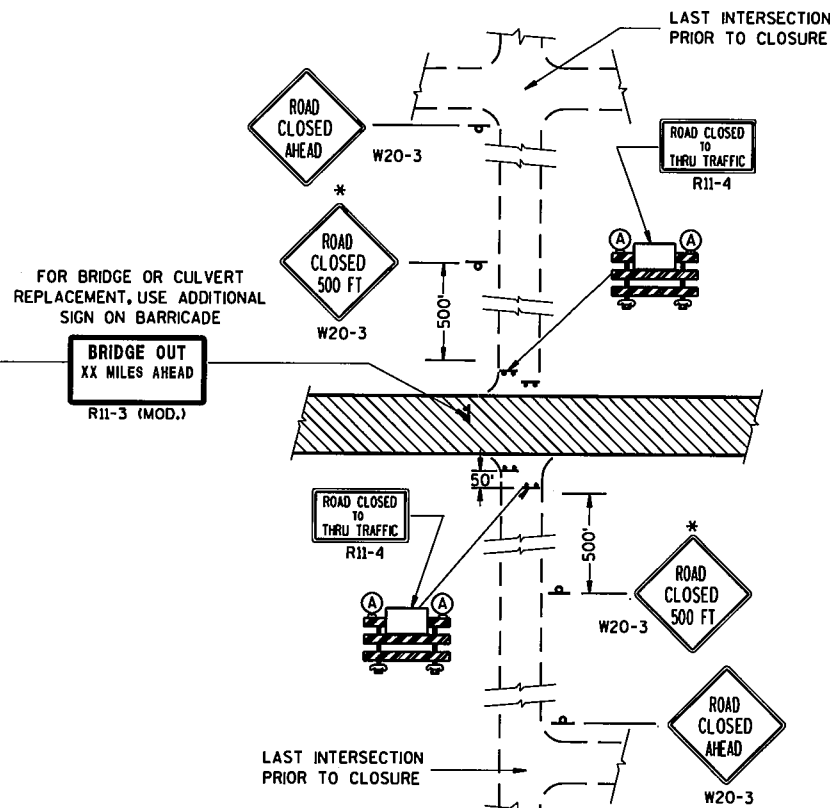
DETAIL 1
(NO ACCESS TO PROJECT)



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 DDWN 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.

THE REFLECTIVE SHEETING USED ON R11-2, R11-3 AND R11-4 SIGNS SHALL COMPLY WITH SUBSECTION 637.2.2.2 OF THE STANDARD SPECIFICATIONS.

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".

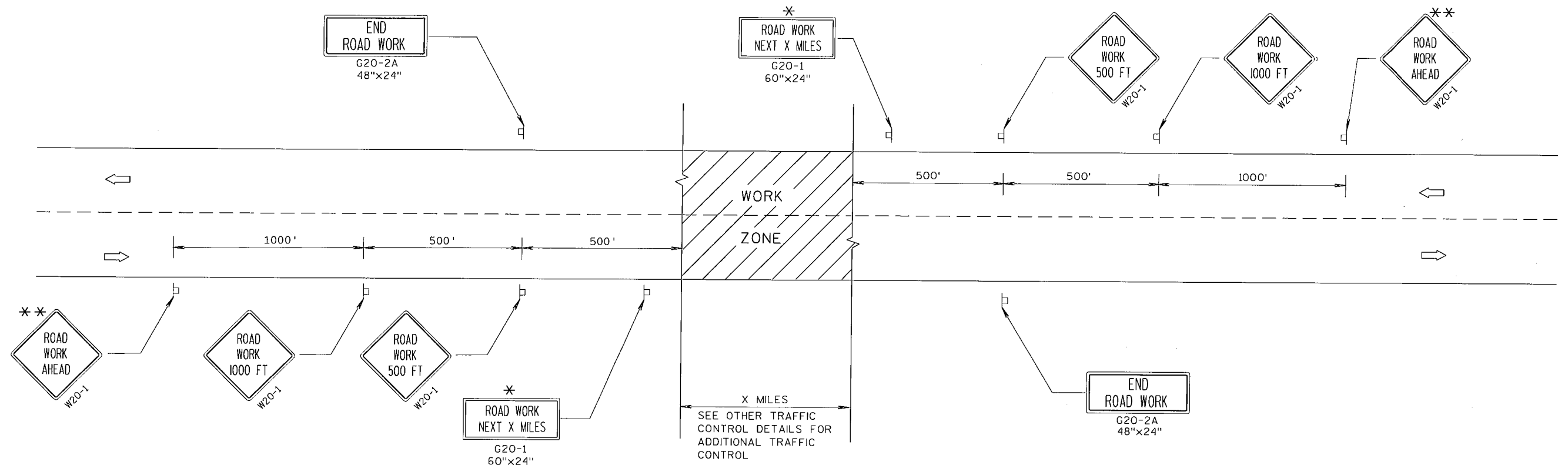
*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- ⊥ POST MOUNTED WARNING SIGN
- ▬ TYPE III BARRICADES
- ⓐ TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)
- ▨ WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED _____	
DATE _____	CHIEF SIGNS AND MARKING ENGINEER
FHWA _____	



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

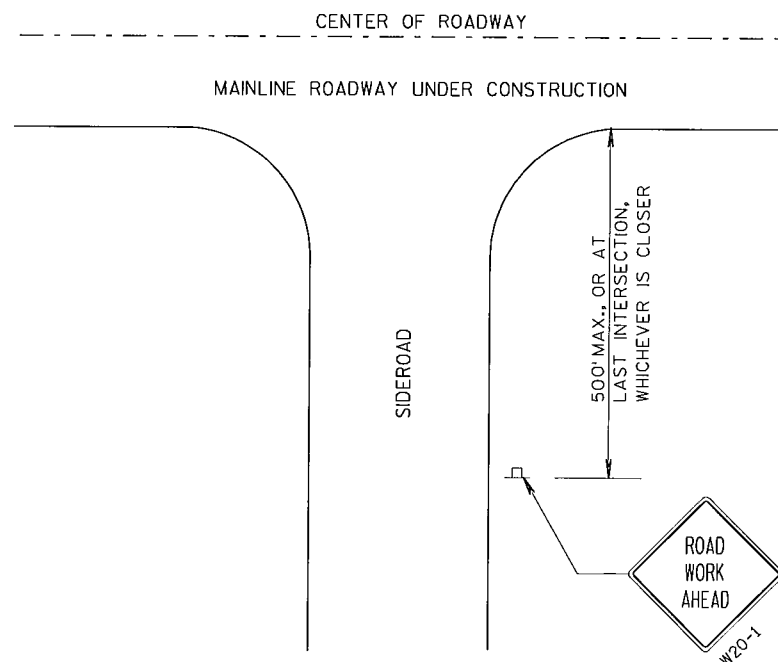
ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1 "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA OR SIGNING.

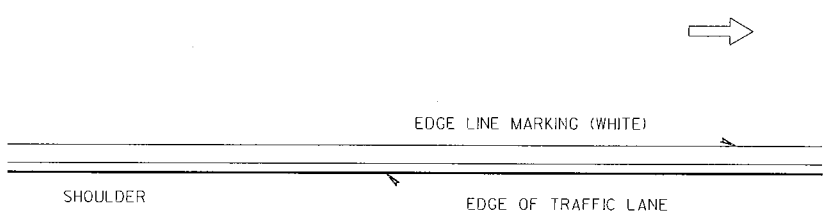
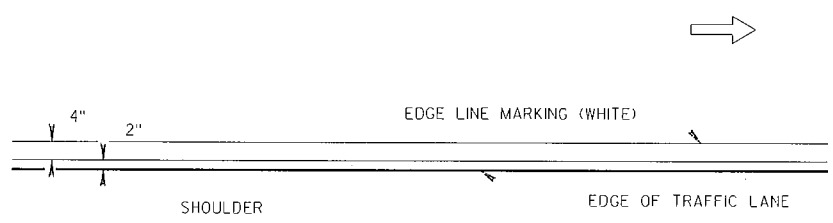
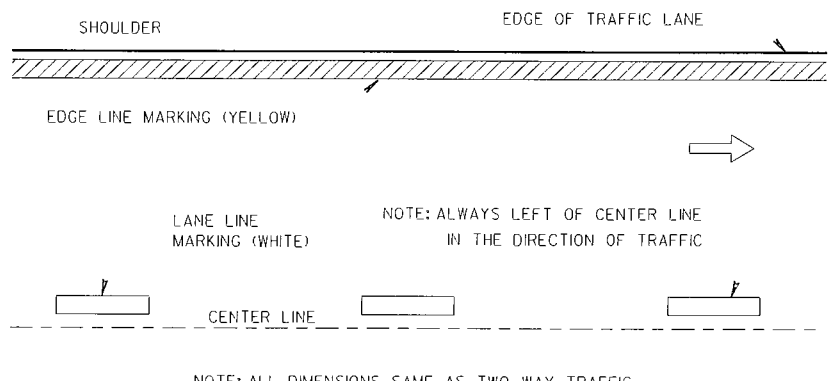
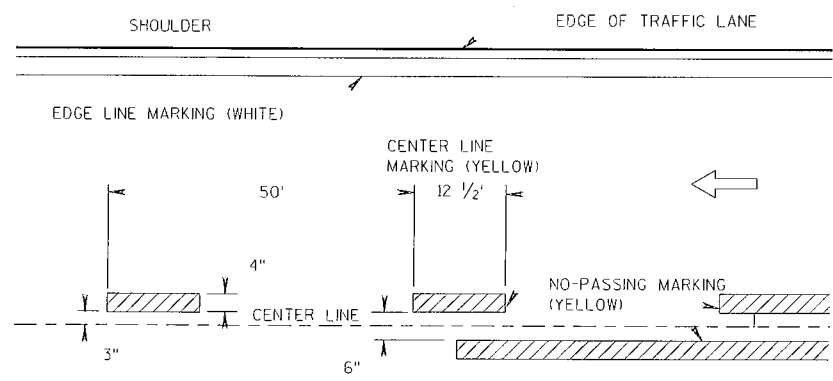


LEGEND

- POST MOUNTED SIGN
- ⇒ DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
DATE	CHIEF SIGNS AND MARKING ENGINEER
FHWA	

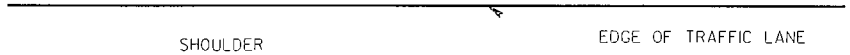
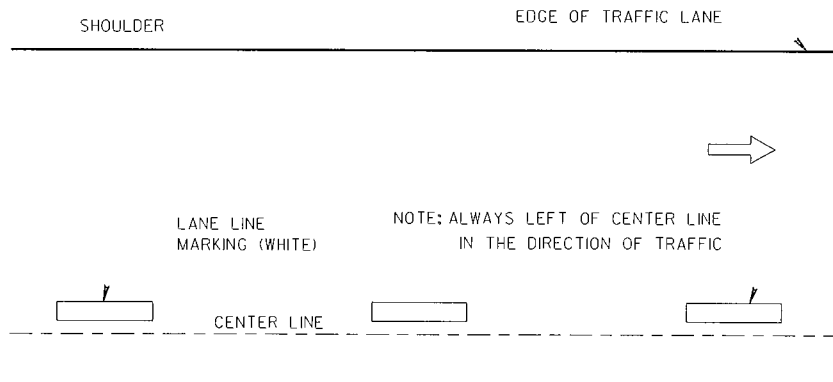
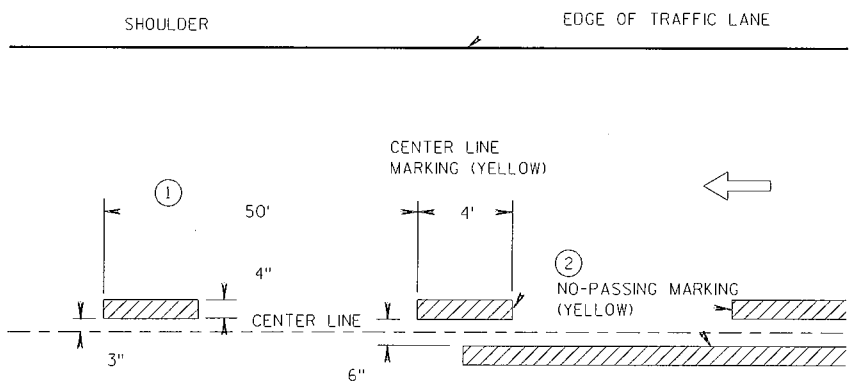
S.D.D. 15 C 4-1



TWO WAY TRAFFIC

ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC

ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING
(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

- ① HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
- ② NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

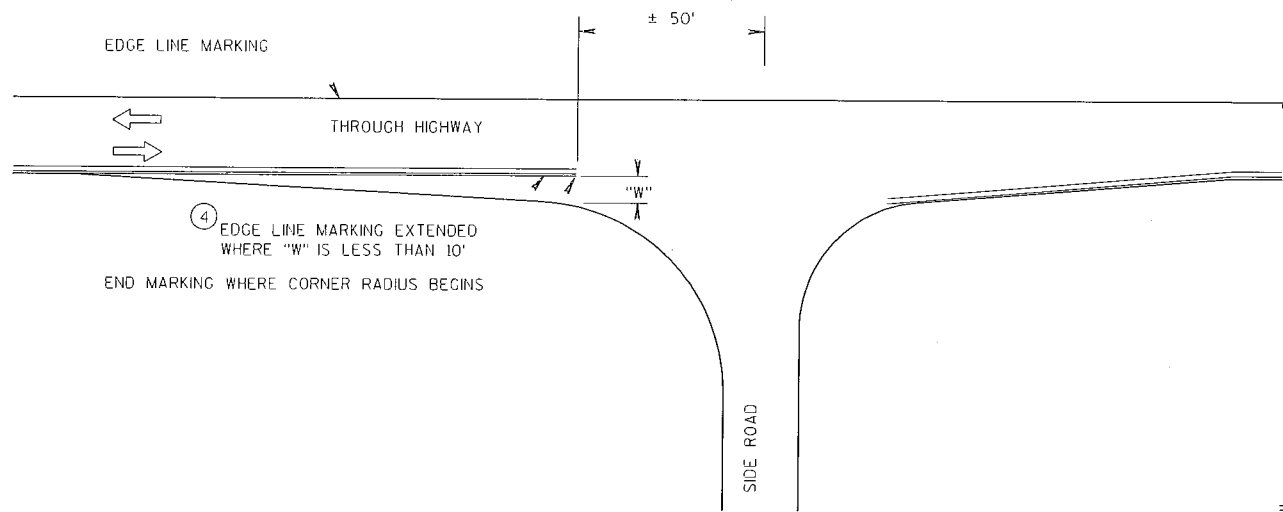
PAVEMENT MARKING (MAINLINE)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
DATE	CHIEF SIGNS AND MARKING ENGINEER
FHWA	

S.D.D. 15 C 8-9c

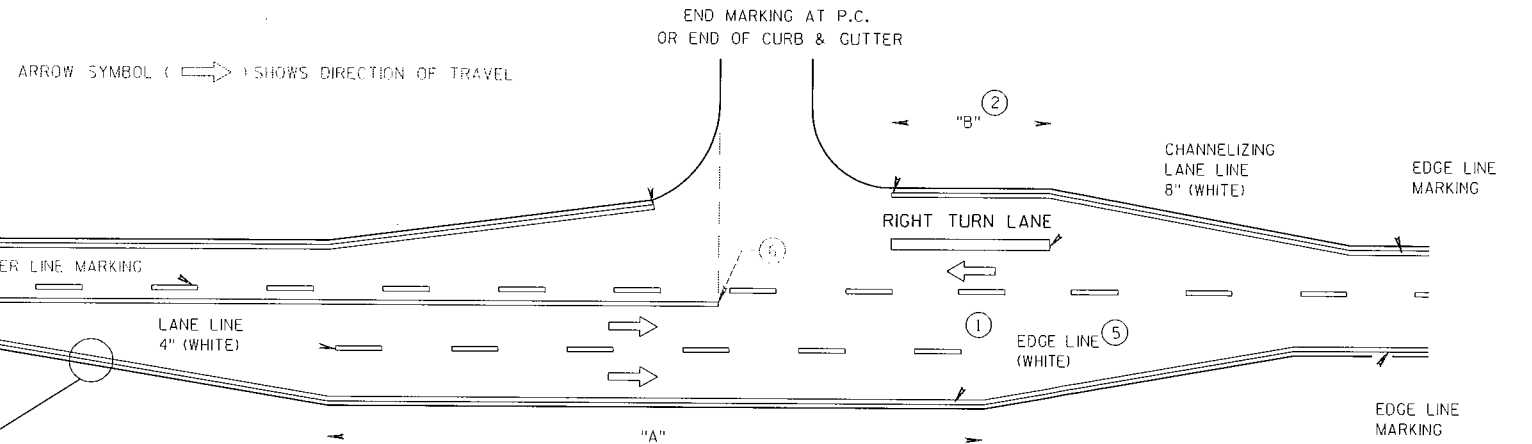
NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

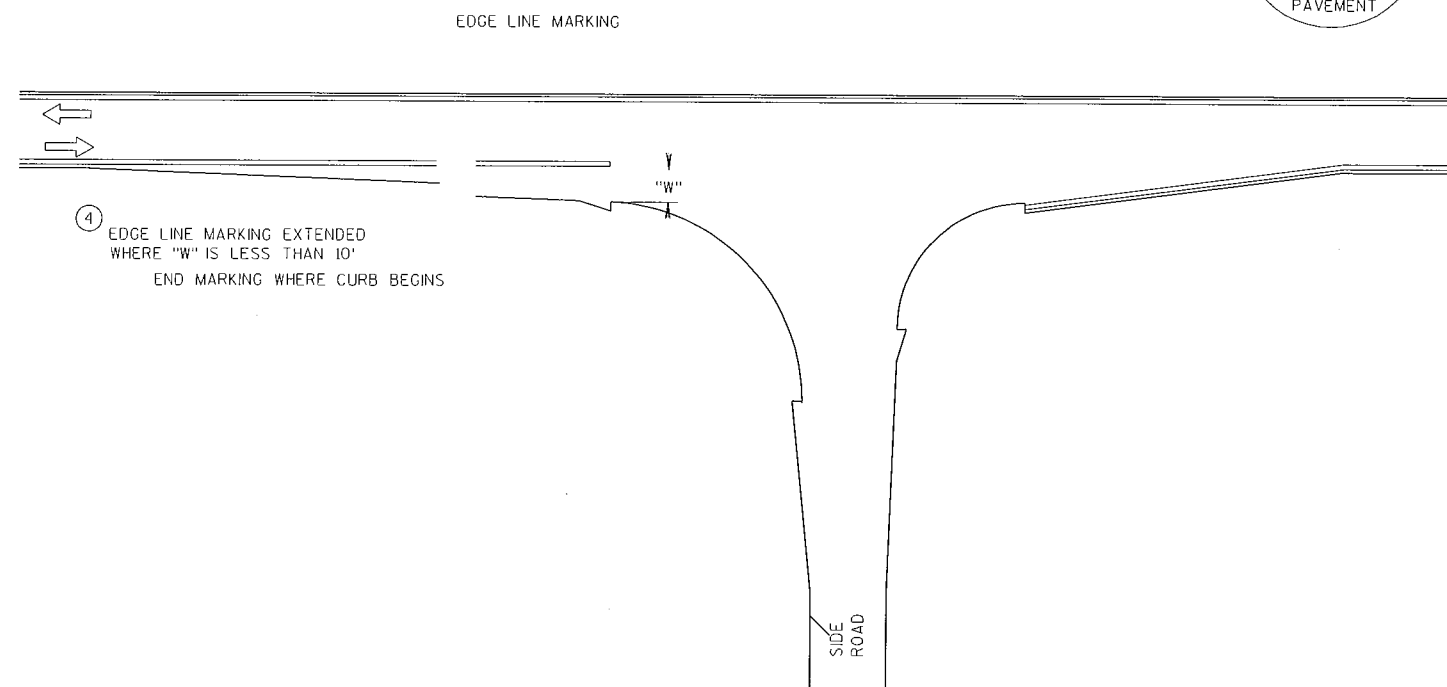
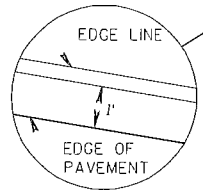
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- ③ ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.
- ④ LOCATE THE EDGE LINE ALONG THE TAPER WHERE "W" IS 10' OR MORE.
- ⑤ THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.
- ⑥ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.



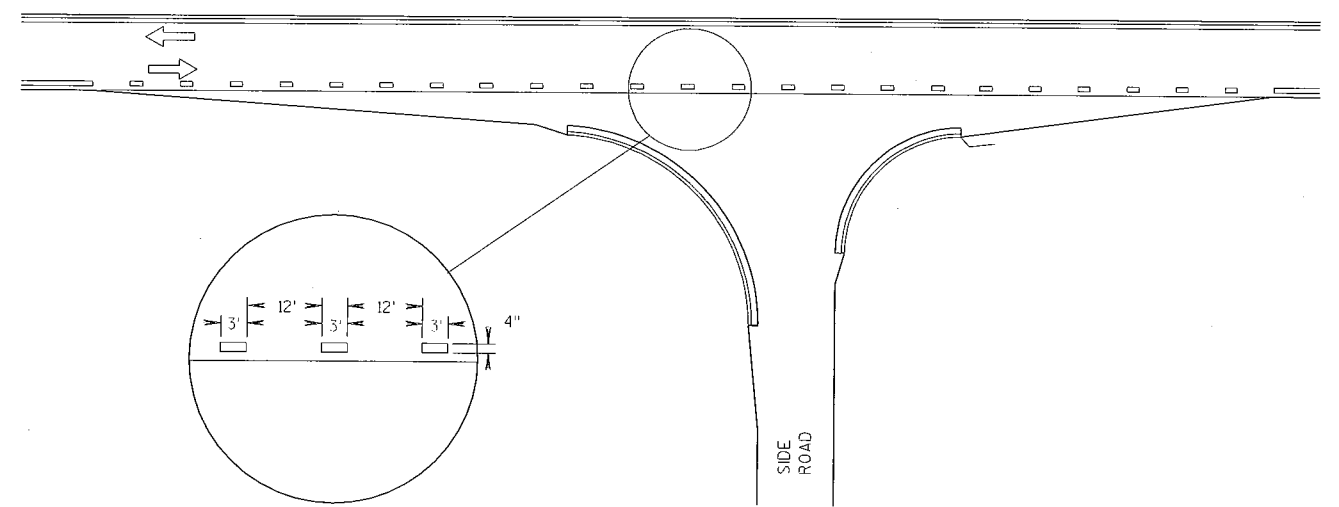
MINOR INTERSECTION WITHOUT CURBS



MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



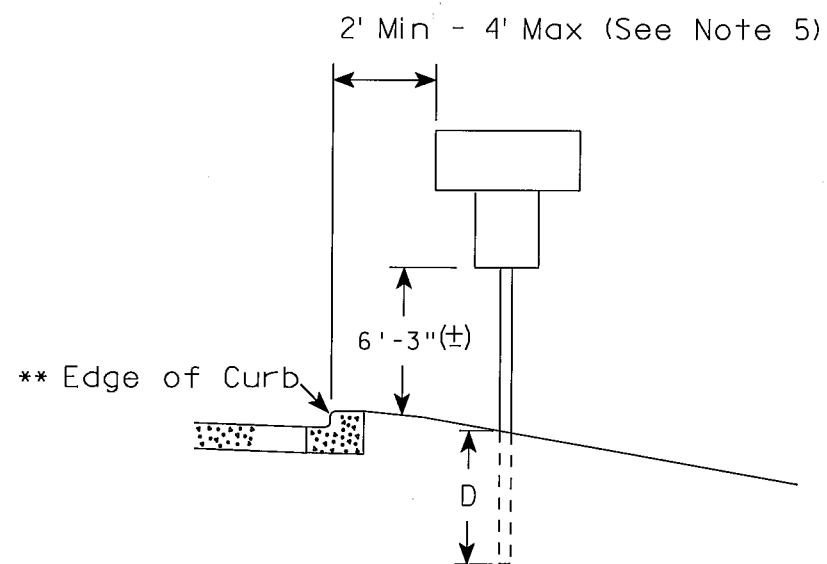
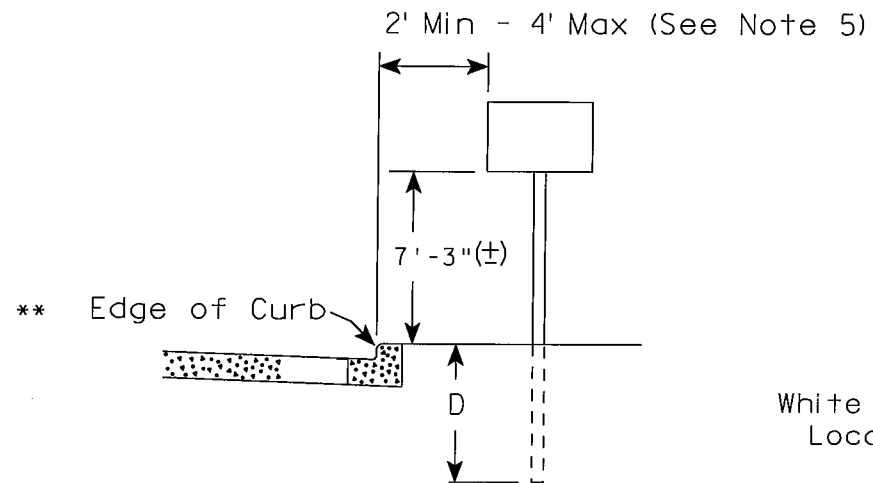
MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



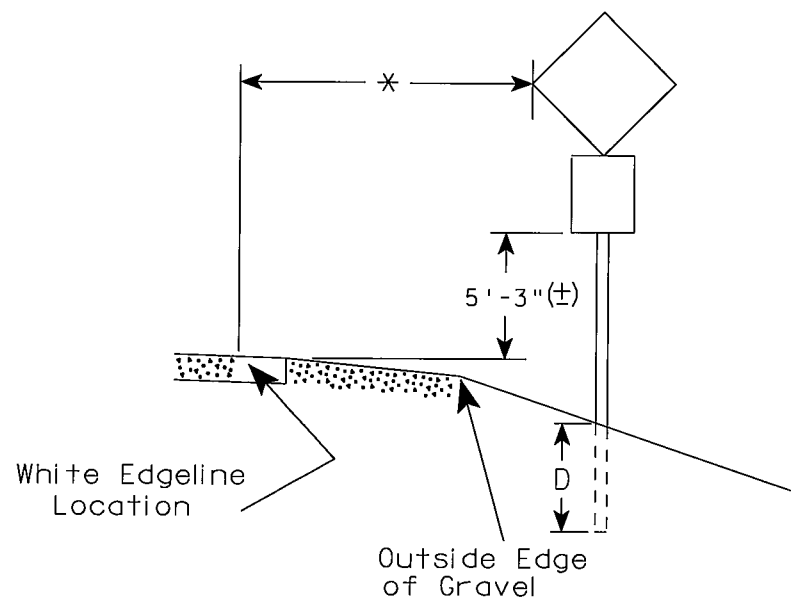
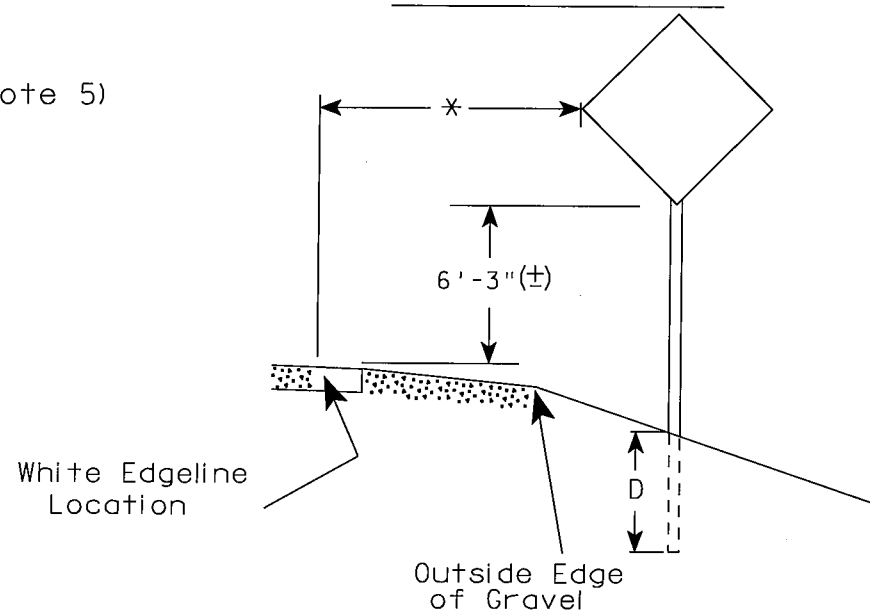
MINOR INTERSECTION WITH CURBS
③ (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING (INTERSECTIONS)
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

URBAN AREA



RURAL AREA (See Note 2)



- 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. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
 3. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
 4. Minimum mounting height for signs mounted on traffic signal poles is 5'-3" (±).
 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
 6. The (±) tolerance for mounting height is 3 inches.
 7. Folding stop signs (R1-1F) 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 (W1-8A), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) 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 where there is sidewalk adjacent to the roadway or parking is permitted. This same criteria applies to mountable curb as well and measurement shall be taken from 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.

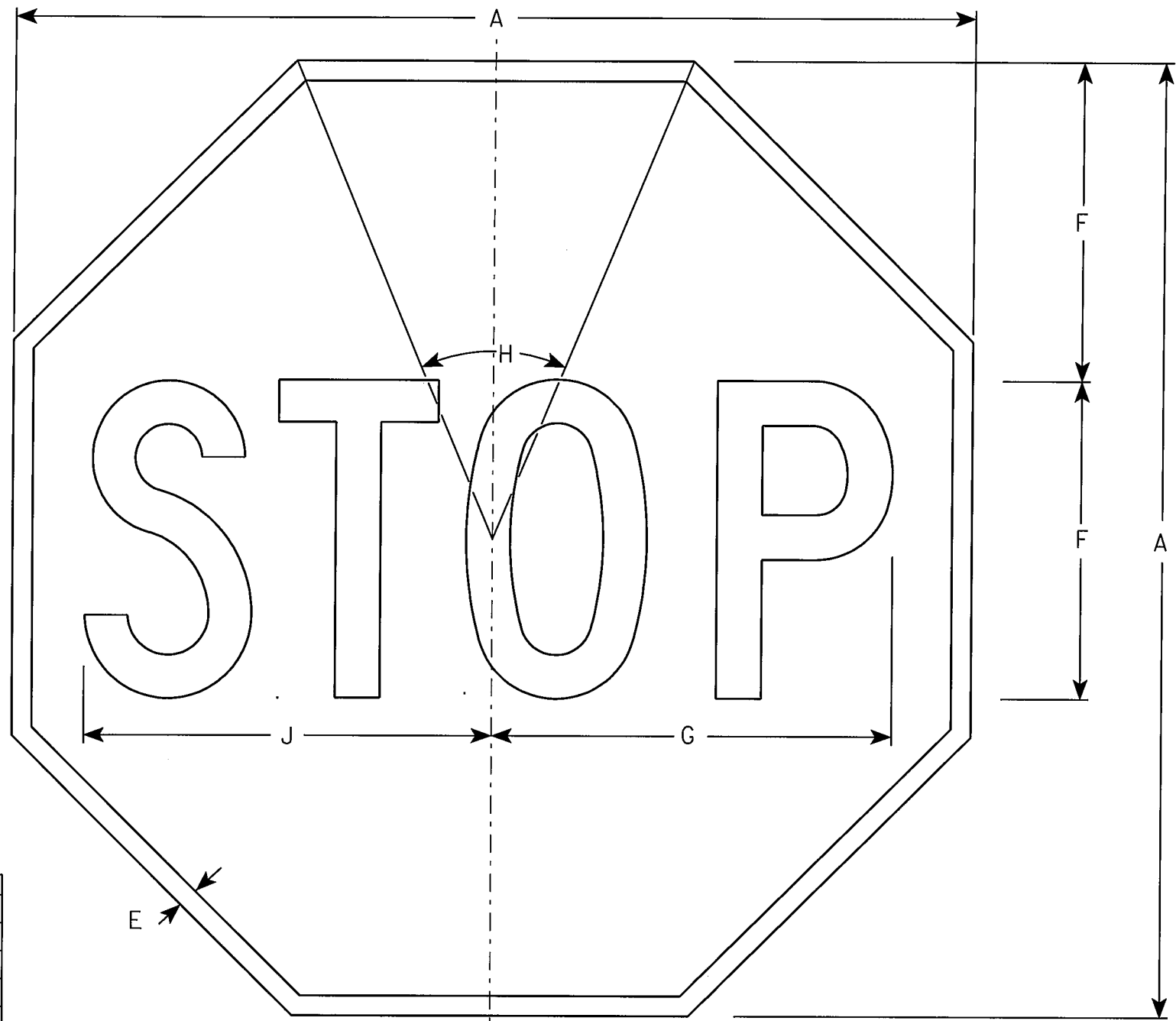
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 35

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

Metric equivalent for this sign is:

SIZE	
1	600 mm X 600 mm
2	750 mm X 750 mm
3	900 mm X 900 mm
4	1200 mm X 1200 mm
5	1200 mm X 1200 mm
6	450 mm X 450 mm
7	300 mm X 300 mm

R1-1

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 m ²
1	24				3/8	8	10	45°		10 1/4																	3.31	0.31
2	30				5/8	10	12 1/2	45°		12 3/4																	5.18	0.48
3	36				3/4	12	15	45°		15 3/8																	7.46	0.69
4	48				1	16	20	45°		20 1/2																	13.25	1.23
5	48				1	16	20	45°		20 1/2																	13.25	1.23
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86	0.17
7	12				1/4	4	5	45°		5 1/8																	0.78	0.07

STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Chester J Spang*
for State Traffic Engineer

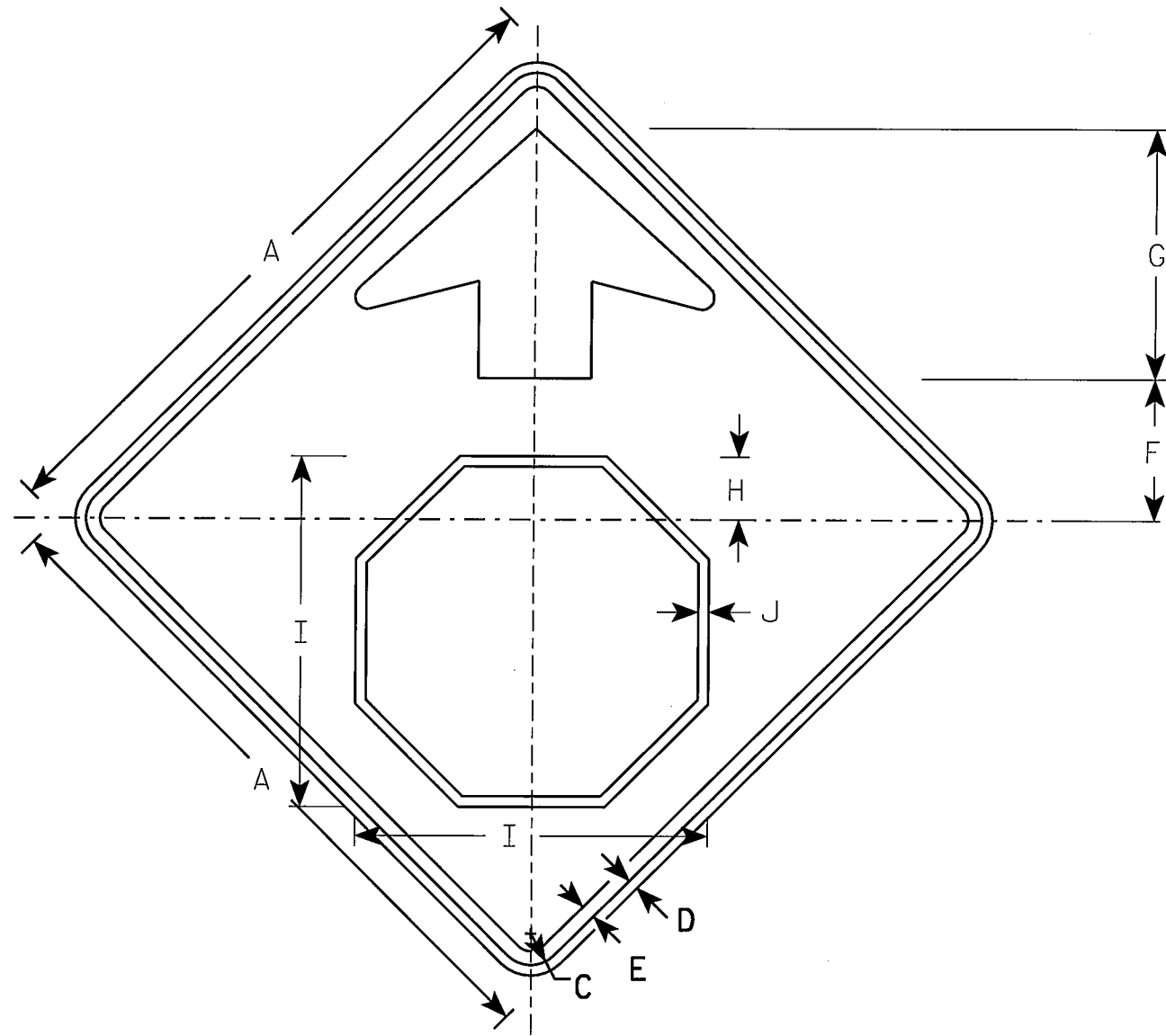
DATE 10/15/98 PLATE NO. R1-1.11

PROJECT NO:

HWY:

COUNTY:

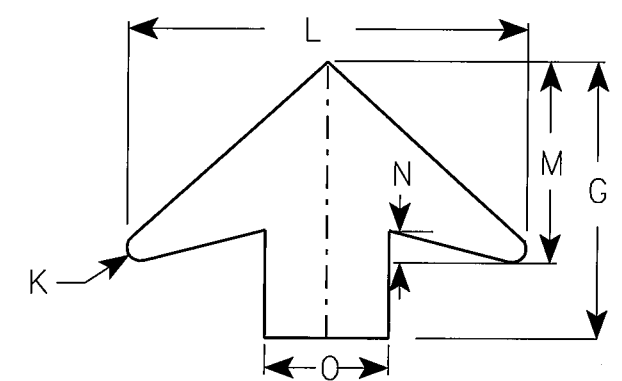
SHEET NO: 36 E



W3-1

NOTES

1. All Signs Type II - Type H 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

Metric equivalent for this sign is:

SIZE	
1	750 mm X 750 mm
2	900 mm X 900 mm
3	900 mm X 900 mm
4	1200 mm X 1200 mm
5	1200 mm X 1200 mm

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 m ²
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	0.56
2	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	0.81
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	0.81
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	1.44
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	1.44

STANDARD SIGN
W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 1/27/05 PLATE NO. W3/L11

PROJECT NO:

SHEET NO: 21 E

EARTHWORK

STATION	COMMON EXC CUT AREA (SF)	CUT VOLUME (CY)	COMMON EXC FILL AREA (SF)	FILL VOLUME (CY)	CUMULATIVE CUT (CY)	CUMULATIVE ADJUSTED FILL (CY)	MASS ORDINATE (CY)
CTH H							
456+00	60		0				
456+50	60	111	0	0	111	0	111
457+00	60	111	0	0	221	0	221
457+50	68	119	0	0	340	0	340
458+00	68	126	0	0	466	0	466
458+50	68	126	0	0	592	0	592
459+00	102	157	0	0	750	0	750
459+50	102	189	0	0	939	0	939
460+00	59	149	0	0	1088	0	1088

9

9

PROJECT NO: 9958-01-72

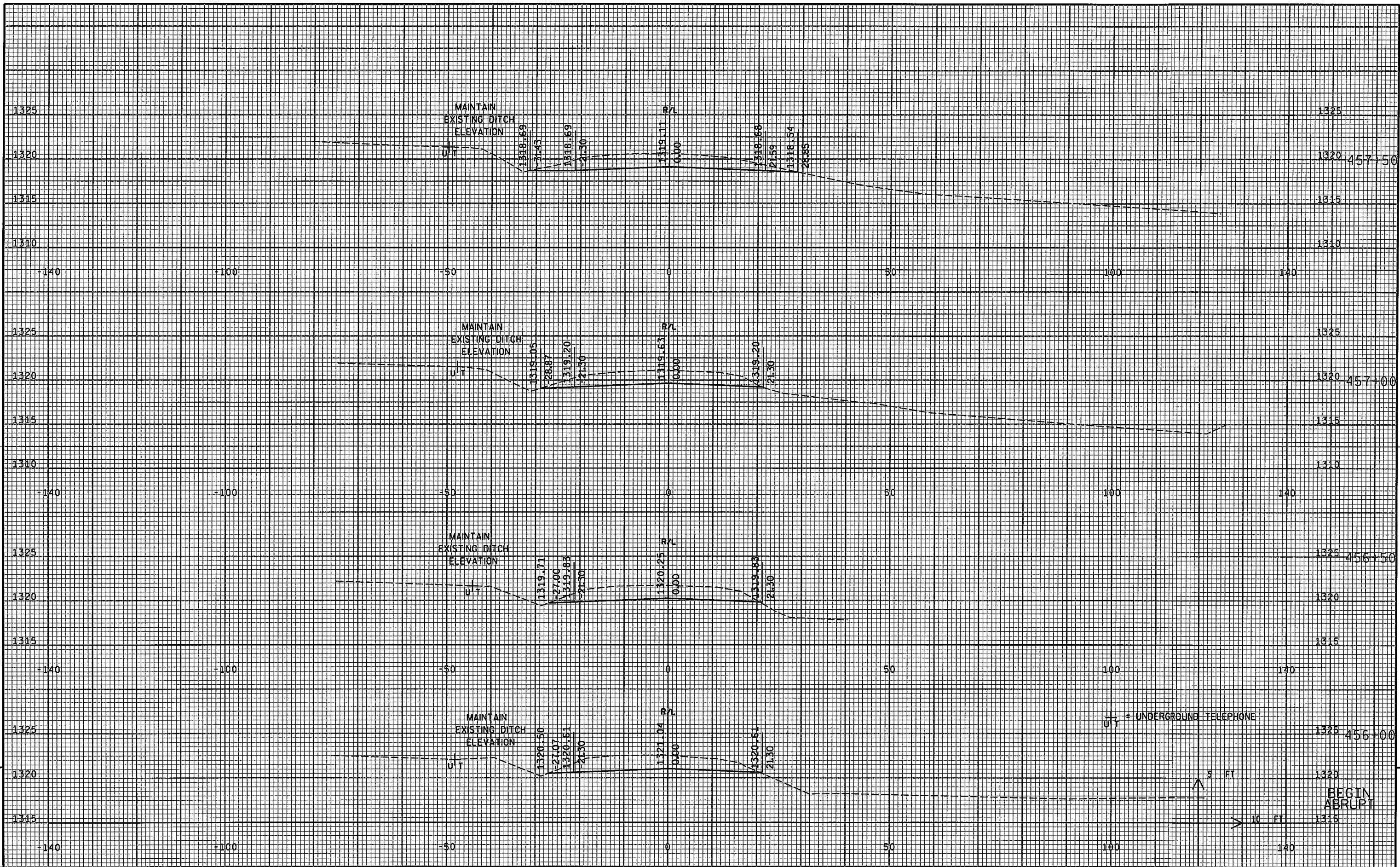
HWY: CTH H

COUNTY: MARATHON

EARTHWORK

SHEET 38

E

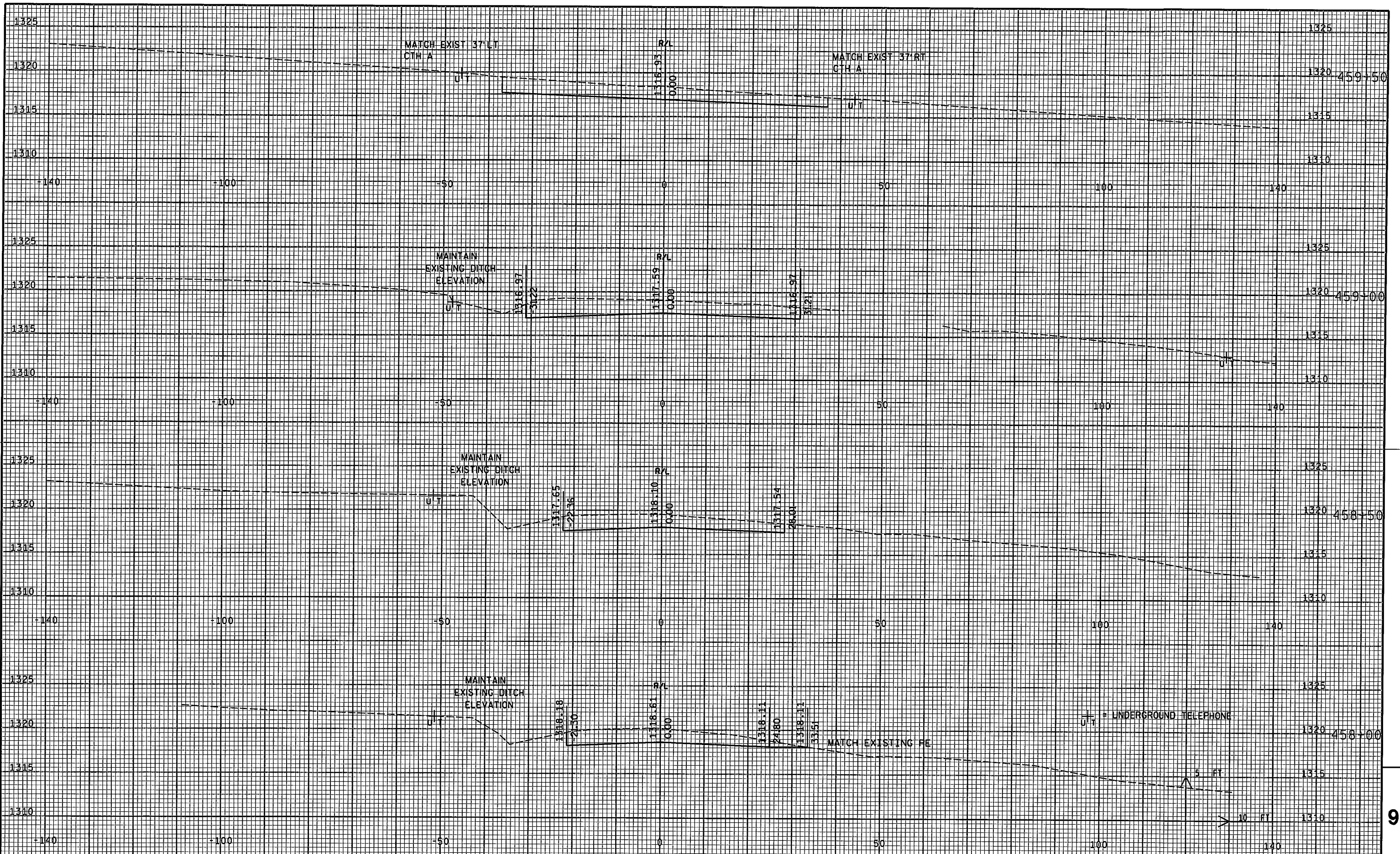


9

9

PROJECT NO: 9958-01-72 HWY: CTH H COUNTY: MARATHON CROSS SECTIONS: CTH H AT CTH A SHEET **39** E

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PROJECT NO: 9958-01-72

HWY: CTH H

COUNTY: MARATHON

CROSS SECTIONS: CTH H AT CTH A

SHEET 40

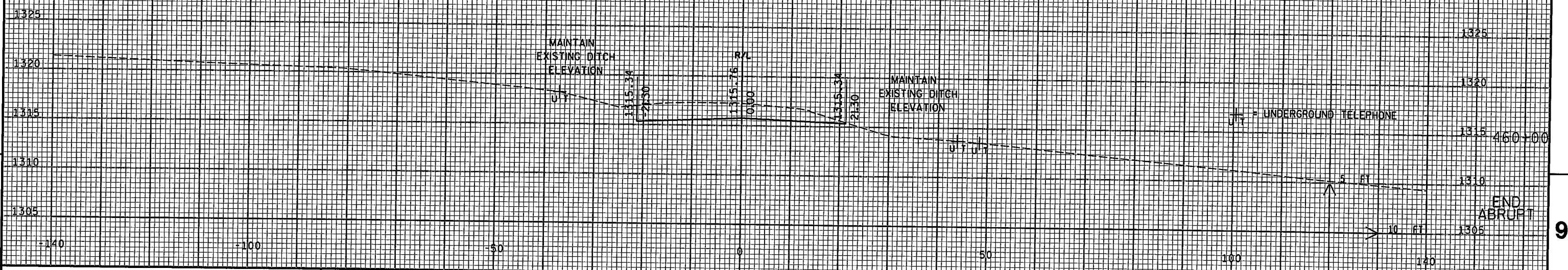
E

FILE NAME : p:\42xx\4216\plan\Cross Sections\090201.XS.DGN

PLOT DATE : 04/28/2006

PLOT BY : **...plotuser...** PLOT NAME :

PLOT SCALE : **...plotscale...** WISDOT/CADD SHEET 21



9

9