

02-SEP-2010 09:08  
 P:\TIP\Projects\2414B\Traffic\Signing\CADD\Quantities & GM\Signs\R-2414B\_Sgn-SGN.tts\shheet.dgn  
 snowlin AH TE247515

T.I.P.: R-2414B

CONTRACT: C202241

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION

SIGNING PLANS  
 CAMDEN COUNTY

LOCATION: US 158-NC 34 FROM NORTH OF SR 1257  
 TO EAST OF NC 34 IN BELCROSS



TIP NO. R-2414B	SHEET NO. SIGN-1
APPROVED: <i>Ayman Alqudwah</i>	
DATE: 9/2/10	
SEAL 	

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
903.10	GROUND MOUNTED SIGN SUPPORTS
903.20	WOOD SIGN SUPPORTS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.20	SECONDARY SIGN MOUNTING
904.30	SUPPLEMENTAL SIGN MOUNTING

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4082000000	903	SUPPORTS, WOOD	610	L.M.
4096000000	904	SIGN ERECTION, TYPE D	7	EA.
4102000000	904	SIGN ERECTION, TYPE E	52	EA.
4108000000	904	SIGN ERECTION, TYPE F	21	EA.
4158000000	907	DISPOSAL OF SIGN SYSTEM, WOOD	75	EA.

PLAN PREPARED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

AYMAN ALQUDWAH P.E. SIGNING & DELINEATION REGIONAL ENGINEER  
 BARRY NOWLIN SIGNING & DELINEATION PROJECT DESIGN TECHNICIAN

GENERAL NOTES

- . SIGNS FURNISHED BY STATE
- . ALL TYPE 'B' SIGNS SHALL BE MOUNTED ON TWO WOOD POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . SIGNING PLANS DO NOT INCLUDE TEMPORARY CONSTRUCTION SIGNING OR PAVEMENT MARKINGS. SEE TRAFFIC CONTROL PLANS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'D', 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

Pay Item Notes:

1	DISPOSAL OF SIGN SYSTEM, WOOD
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Project Notes:

A	REPLACE PROPOSED SIGN IN EXISTING LOCATION PLUS OR MINUS 7.5 m
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INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET, SUMMARY OF QUANTITIES & NOTES
SIGN-2A-2D	SIGN DESIGN SHEETS
SIGN-3	E SHEETS
SIGN-4	F AND MILEMARKER SHEETS
SIGN-5-11	SIGN DETAIL SHEETS





TIP NO. R-2414B	SIGN-2B
APPROVED: <i>[Signature]</i>	
DATE: 9/2/10	
SEAL	

SIGN NUMBER: 303      BACKG COLOR: Green  
 TYPE: D                      COPY COLOR: White  
 QUANTITY: 1

SYMBOL	X	Y	WID	HT
ARUP	2025	144	150	225

SIGN WIDTH: 2400mm  
 HEIGHT: 700mm  
 TOTAL AREA: 1.7 Sq.m

BORDER TYPE: FLUSH  
 RECESS: 0mm  
 WIDTH: 20mm  
 RADII: 76mm

NO. Z BARS:  
 LENGTH:

DESIGN BY: B. Nowlin      CHECKED BY: M. Eaton      DATE: Aug 31, 2010  
 PROJECT ID: R-2414B      DIV: 01

MAT'L: 0.125" (3.2 mm) ALUMINUM

BORDER  
 R=76mm  
 TH=20mm

USE NOTES: 1,2

- Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
- Background shall be Grade C reflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

		Letter locations are panel edge to lower left corner																Series/Size	
																		Text Length	
N	.	C	.	F	O	R	E	S	T	S	E	R	V	I	C	E			D 2000
150	276	324	447	474	624	736	876	1003	1111	1225	1318	1468	1596	1714	1828	1965	2022	2157	2100
H	E	A	D	Q	U	A	R	T	E	R	S								D 2000
150	288	393	543	675	814	939	1089	1203	1318	1437	1554								1506

FILENAME: Sign Design      NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 304      BACKG COLOR: Green  
 TYPE: D                      COPY COLOR: White  
 QUANTITY: 1

SYMBOL	X	Y	WID	HT
ARUP	373	958	150	225
ARUP	1468	525	150	225
ARUP	1483	92	150	225

SIGN WIDTH: 1800mm  
 HEIGHT: 1200mm  
 TOTAL AREA: 2.2 Sq.m

BORDER TYPE: FLUSH  
 RECESS: 0mm  
 WIDTH: 20mm  
 RADII: 76mm

NO. Z BARS:  
 LENGTH:

DESIGN BY: B. Nowlin      CHECKED BY: M. Eaton      DATE: Sep 01, 2010  
 PROJECT ID: R-2414B      DIV: 01

MAT'L: 0.125" (3.2 mm) ALUMINUM

BORDER  
 R=76mm  
 TH=20mm

USE NOTES: 1,2

- Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
- Background shall be Grade C reflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

		Letter locations are panel edge to lower left corner																Series/Size	
																		Text Length	
S	H	I	L	O	H														D 2000
748	875	1013	1073	1186	1325														680
C	A	M	D	E	N														D 2000
347	469	619	772	907	1025														780
C	O	U	R	T	H	O	U	S	E										D 2000
107	239	378	516	630	746	881	1020	1148	1275										1262
S	O	U	T	H	M	I	L	L	S										D 2000
92	216	356	480	596	698	848	1001	1061	1176	1281									1292

FILENAME: R-2414BSign\_Design      NORTH CAROLINA D.O.T. SIGN DETAIL

TYPE "D" SIGN

04-SEP-2010 10:53  
 C:\Users\B... \My Documents\Sign Designs\R-2414BSign\_Design.dgn







TIP NO.	R-2414B	SIGN-2D
APPROVED:	<i>[Signature]</i>	
DATE:	9/2/10	
SEAL		

SIGN NUMBER: 307  
 TYPE: D  
 QUANTITY: 1  
 SIGN WIDTH: 1800mm  
 HEIGHT: 1200mm  
 TOTAL AREA: 2.2 Sq.m  
 BORDER TYPE: FLUSH  
 RECESS: 0mm  
 WIDTH: 20mm  
 RADII: 76mm  
 NO. Z BARS:  
 LENGTH:

BACKG COLOR: Green  
 COPY COLOR: White

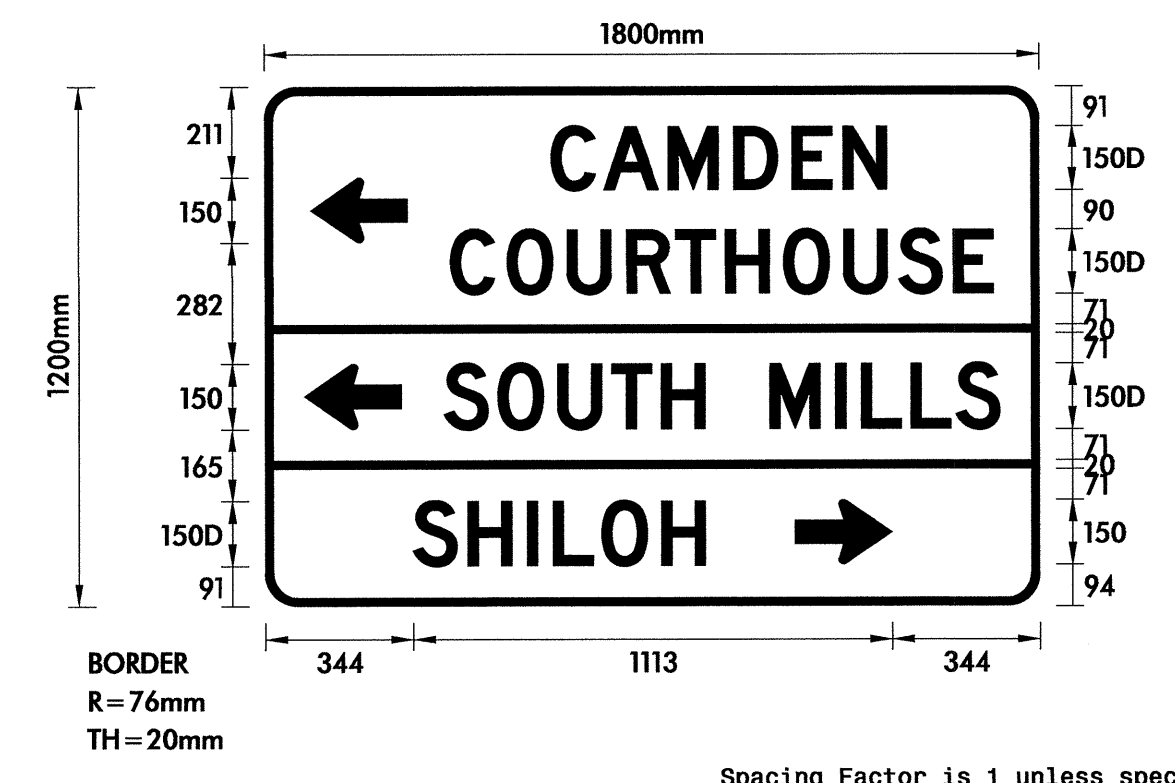
SYMBOL	X	Y	WID	HT
ARUP	107	839	150	225
ARUP	92	406	150	225
ARUP	1231	94	150	225

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: B. Nowlin  
 PROJECT ID: R-2414B

CHECKED BY: M. Eaton  
 DIV: 01

DATE: Sep 01, 2010



USE NOTES: 1,2

- Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
- Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter locations are panel edge to lower left corner

Letter	X	Y	W	H	Series/Size
C	666	788	938	1091	D 2000
A	788	788	938	1091	793
M	938	788	938	1091	D 2000
D	1091	788	938	1091	1262
E	1226	788	938	1091	D 2000
N	1344	788	938	1091	1292
C	432	564	703	841	D 2000
O	564	564	703	841	1262
U	703	564	703	841	D 2000
R	841	564	703	841	1292
T	955	564	703	841	D 2000
H	1071	564	703	841	1292
O	1206	564	703	841	D 2000
U	1345	564	703	841	1292
S	1473	564	703	841	D 2000
E	1600	564	703	841	1292
S	417	541	681	805	D 2000
O	541	541	681	805	1292
U	681	541	681	805	D 2000
T	805	541	681	805	1292
H	921	541	681	805	D 2000
M	1023	541	681	805	1292
I	1173	541	681	805	D 2000
L	1326	541	681	805	1292
L	1386	541	681	805	D 2000
L	1501	541	681	805	1292
S	344	471	609	669	D 2000
H	471	471	609	669	680
I	609	471	609	669	D 2000
L	669	471	609	669	680
O	782	471	609	669	D 2000
H	921	471	609	669	680


FILENAME: R-2414BSign\_Design NORTH CAROLINA D.O.T. SIGN DETAIL

TYPE "B" SIGN



TIP NO. R-2414B	SHEET NO. SIGN-3
APPROVED: <i>[Signature]</i>	
DATE: 9/2/10	
SEAL	

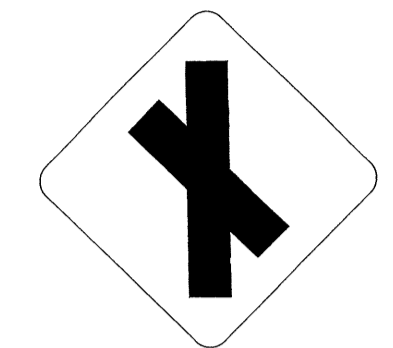
401 QUANTITY REQ'D 14



750 X 900  
R2-1

ONE "WOOD" POSTS PER SIGN


406 QUANTITY REQ'D 2



750 X 750  
W2-1A

ONE "WOOD" POSTS PER SIGN

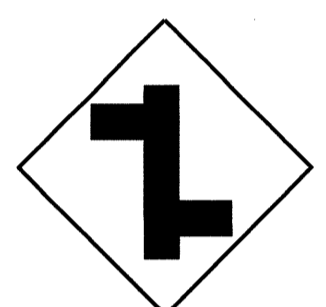
411 QUANTITY REQ'D 5



1350 X 450  
R6-1 (R)

TWO "WOOD" POSTS PER SIGN

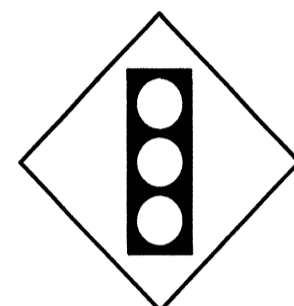
402 QUANTITY REQ'D 2



750 X 750  
W2-4a

ONE "WOOD" POSTS PER SIGN


407 QUANTITY REQ'D 3



900 X 900  
W3-3

ONE "WOOD" POSTS PER SIGN


412 QUANTITY REQ'D 7



1350 X 450  
R6-1 (L)

TWO "WOOD" POSTS PER SIGN


403 QUANTITY REQ'D 7



R=450  
W10-1

ONE "WOOD" POSTS PER SIGN


408 QUANTITY REQ'D 6



750 X 750  
R1-1

ONE "WOOD" POSTS PER SIGN

404 QUANTITY REQ'D 2

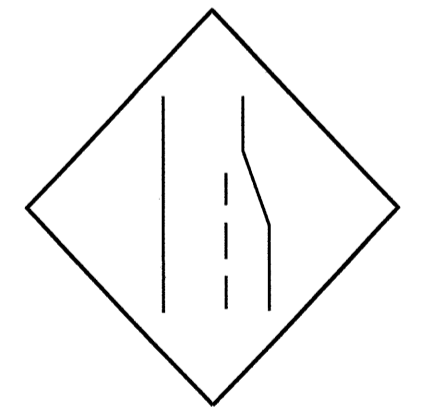


900 X 900  
S1-1

YELLOW/GREEN REFLECTIVE SHEETING

ONE "WOOD" POSTS PER SIGN

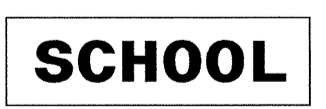
409 QUANTITY REQ'D 1



900 X 900  
W4-2(R)

ONE "WOOD" POSTS PER SIGN

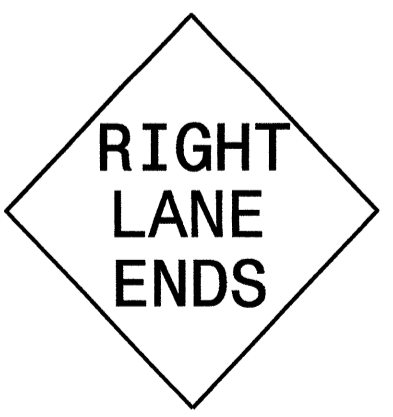
405 QUANTITY REQ'D 2



600 X 200  
S4-3

MOUNT ABOVE SIGN 404  
IN 2 INSTALLATIONS

410 QUANTITY REQ'D 1



900 X 900  
W9-1

ONE "WOOD" POSTS PER SIGN

NOTE: THIS DRAWING IS DIMENSIONED  
IN MILLIMETERS UNLESS OTHERWISE  
DEPICTED WITHIN THE DRAWING.

**TYPE "E" SIGNS**

9:\SEP2010\144\_R-2414B\Traffic\Signing\CADD\Quantities & CH\_Signs\R-2414B\_Sign-SGN-st1sheet.dgn  
 9/2/10 11:27:15  
 Alan L. Alquodini



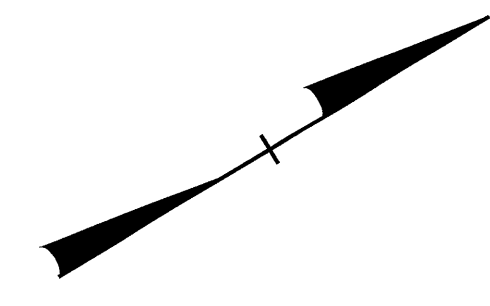
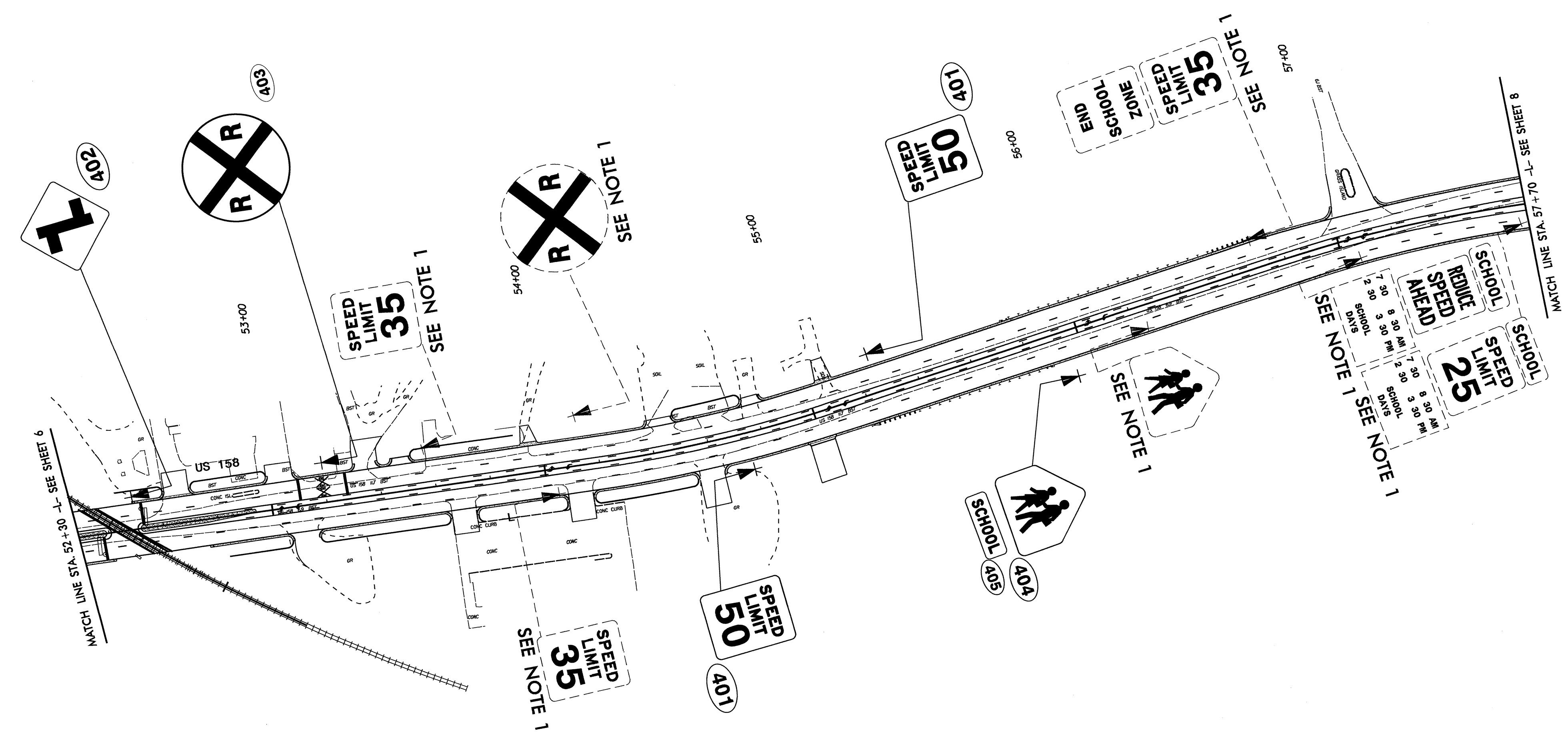








TIP NO.	R-2414B	SIGN-6
APPROVED:	<i>[Signature]</i>	
DATE:	9/2/10	
SEAL		

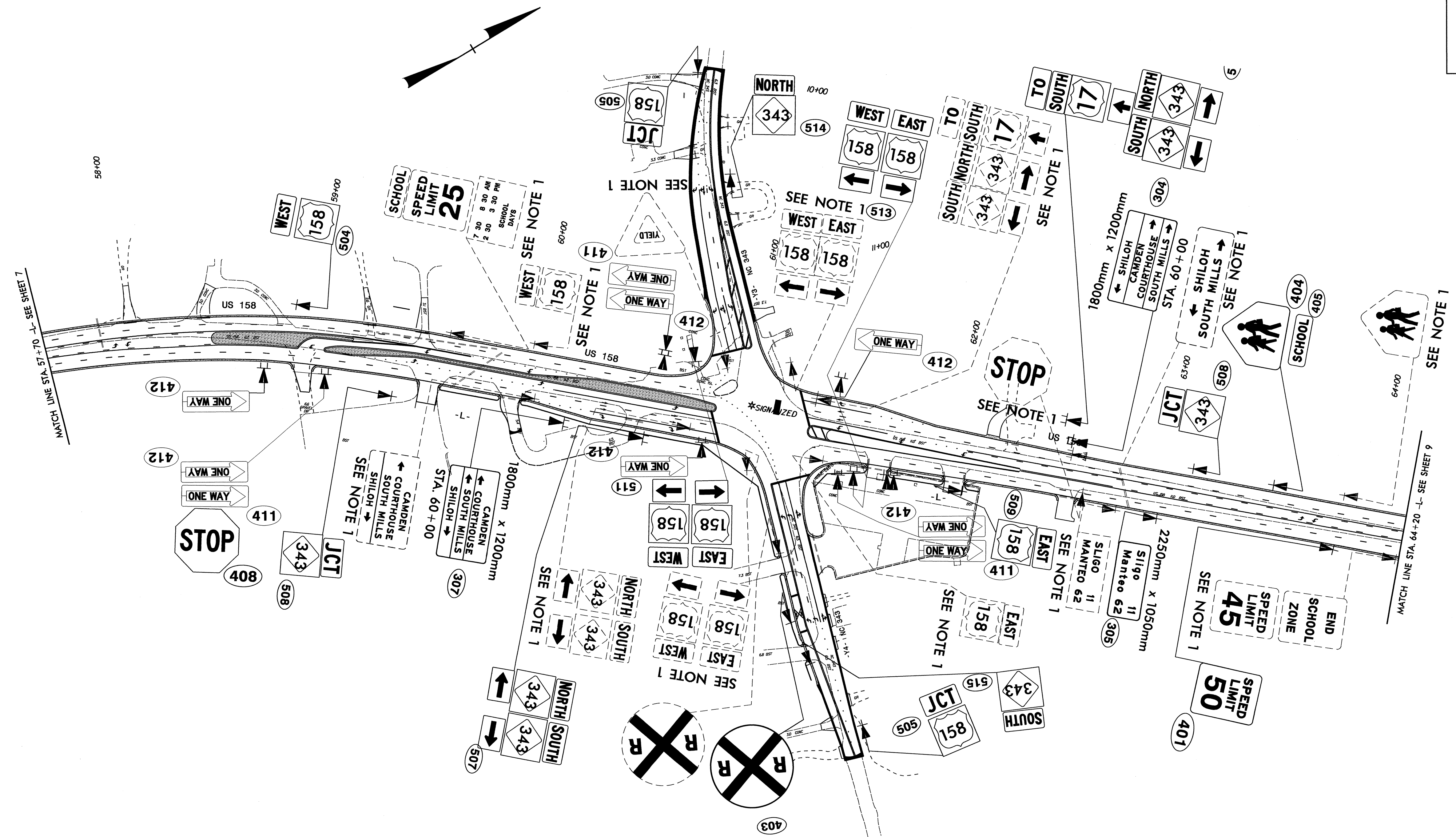


EXISTING SIGNS & PROPOSED SIGNS  
 -L- STA. 52+30 TO -L- STA. 57+70

04\_SEPT2010\_1453\_0192414B\Traffic\Signing\Layout Plans\R-2414B\_Sgn\_7.dgn  
 9/2/10 10:24:15 AM  
 Aayan I. Alquodhi

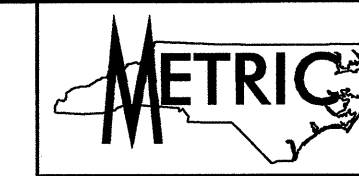


TIP NO. R-2414B	SIGN-7
APPROVED: <i>[Signature]</i>	
DATE: 9/2/10	
SEAL	

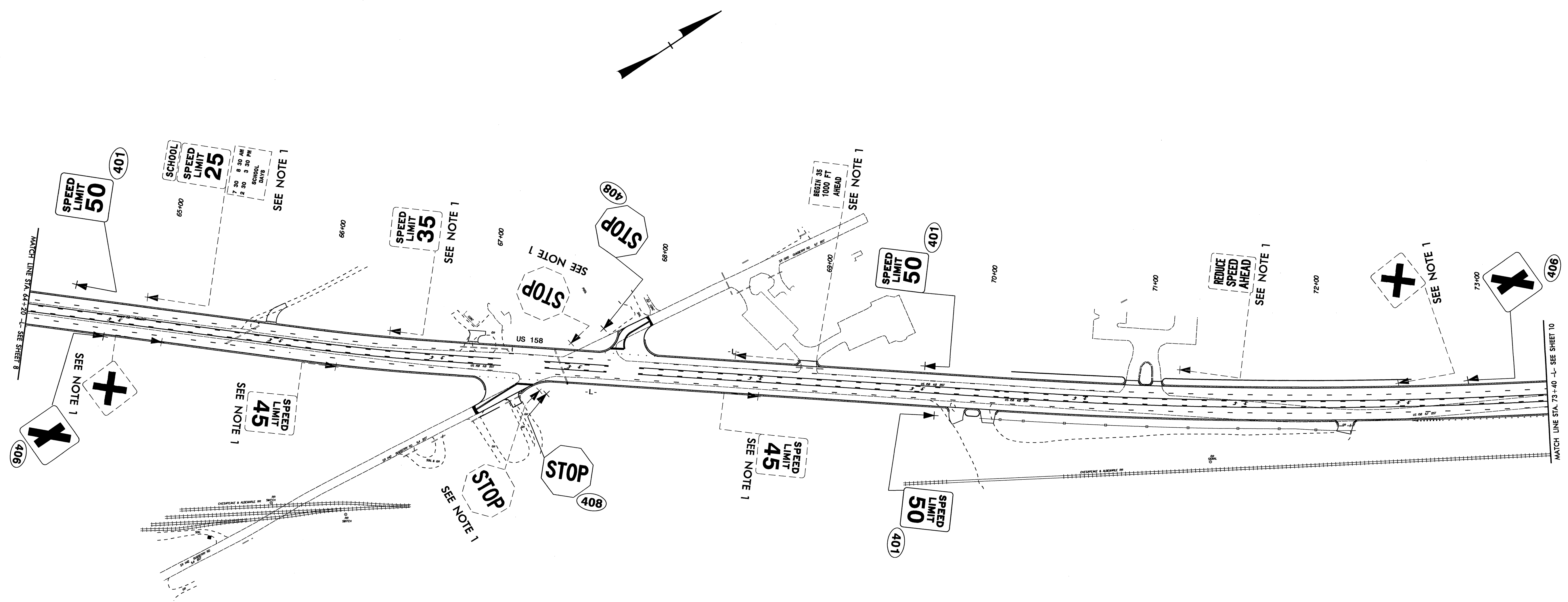


EXISTING SIGNS & PROPOSED SIGNS  
 -L- STA. 57+70 TO -L-STA. 64+20

01\_Signs.dwg  
 9/2/10 11:52  
 R:\Projects\2414B\Traffic\Signing\Layout\Plans\R-2414B\_Sgn\_8.dwg  
 Aayan L. Al-Qudus  
 License No. 028387



TIP NO.	R-2414B	SIGN-8
APPROVED:	<i>[Signature]</i>	
DATE:	9/2/10	
SEAL		

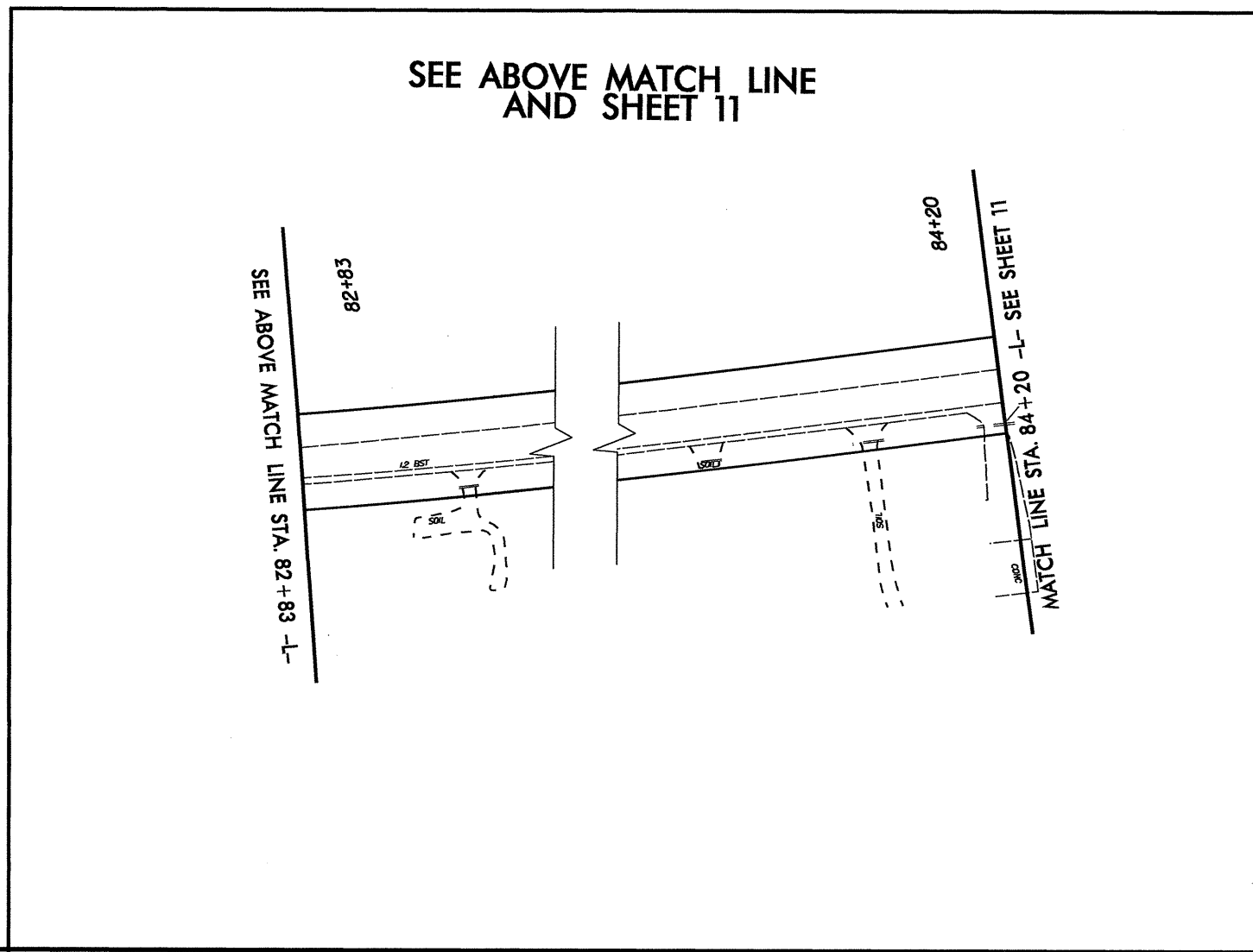
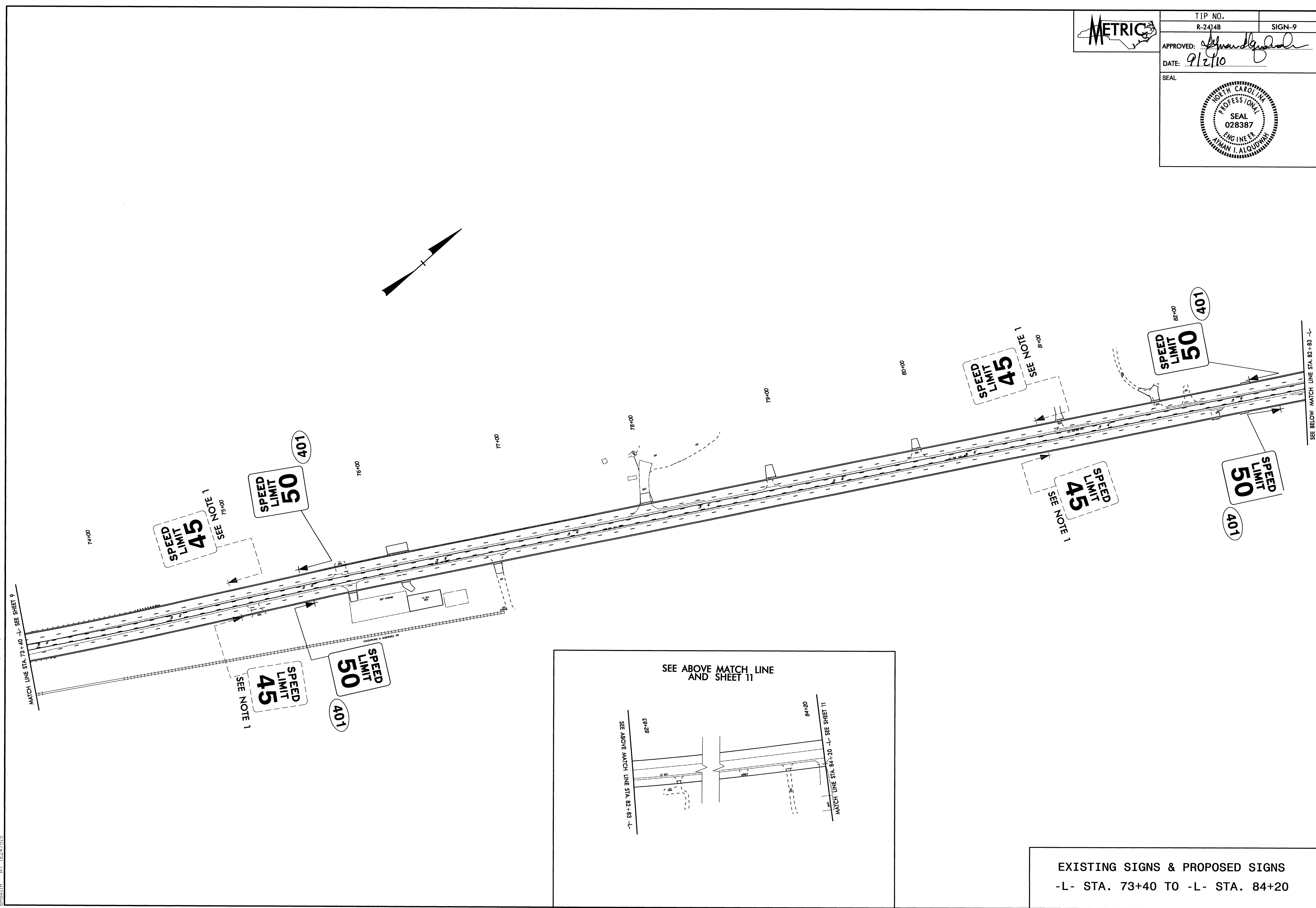
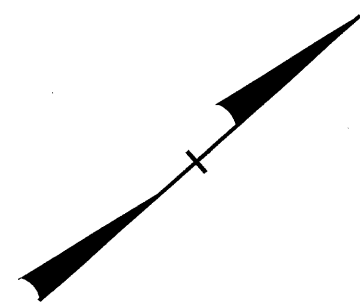


0:\SEP-2010\12101\092148\16\Traffic\Signing\C400\Signing\_Layout\_Plans\R-2414B\_Sgn\_8.dgn  
 9/2/10 10:52 AM  
 10/27/10 10:52 AM  
 10/27/10 10:52 AM

EXISTING SIGNS & PROPOSED SIGNS  
 -L- STA. 64+20 TO -L- STA. 73+40



TIP NO. R-2414B	SIGN-9
APPROVED: <i>[Signature]</i>	
DATE: 9/2/10	
SEAL	




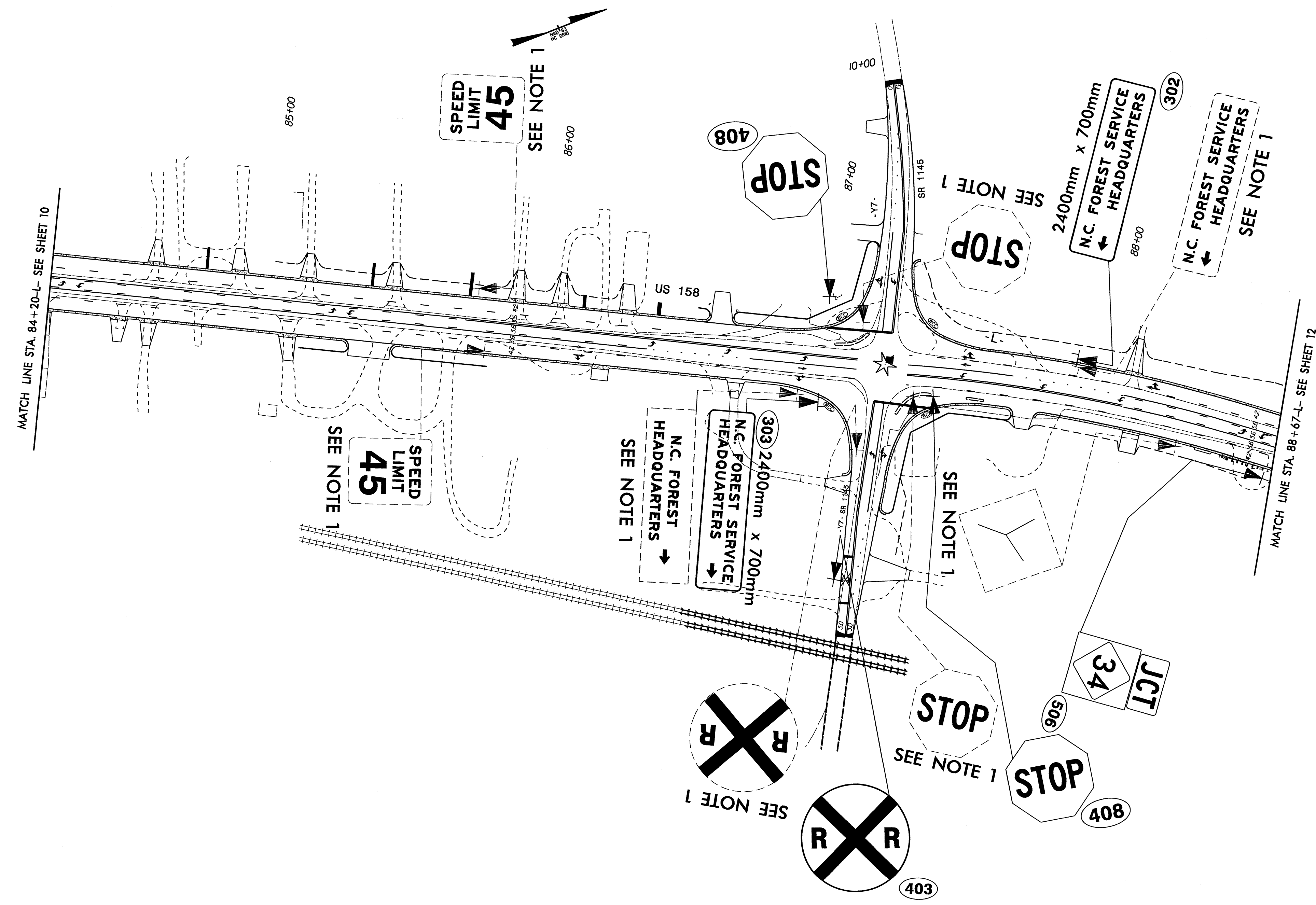
EXISTING SIGNS & PROPOSED SIGNS  
-L- STA. 73+40 TO -L- STA. 84+20

01-SEP-2010 12:28  
P:\Projects\03\2414B\Traffic\Signing\CAAD\Signing Layout\Plan\2414B\_Sgn\_S.dgn  
William I. Aloudini PE



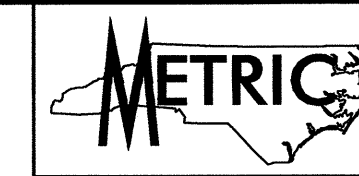
TIP NO. R-2414B	SHEET NO. SIGN-10
APPROVED: <i>[Signature]</i>	
DATE: 9/2/10	
SEAL	



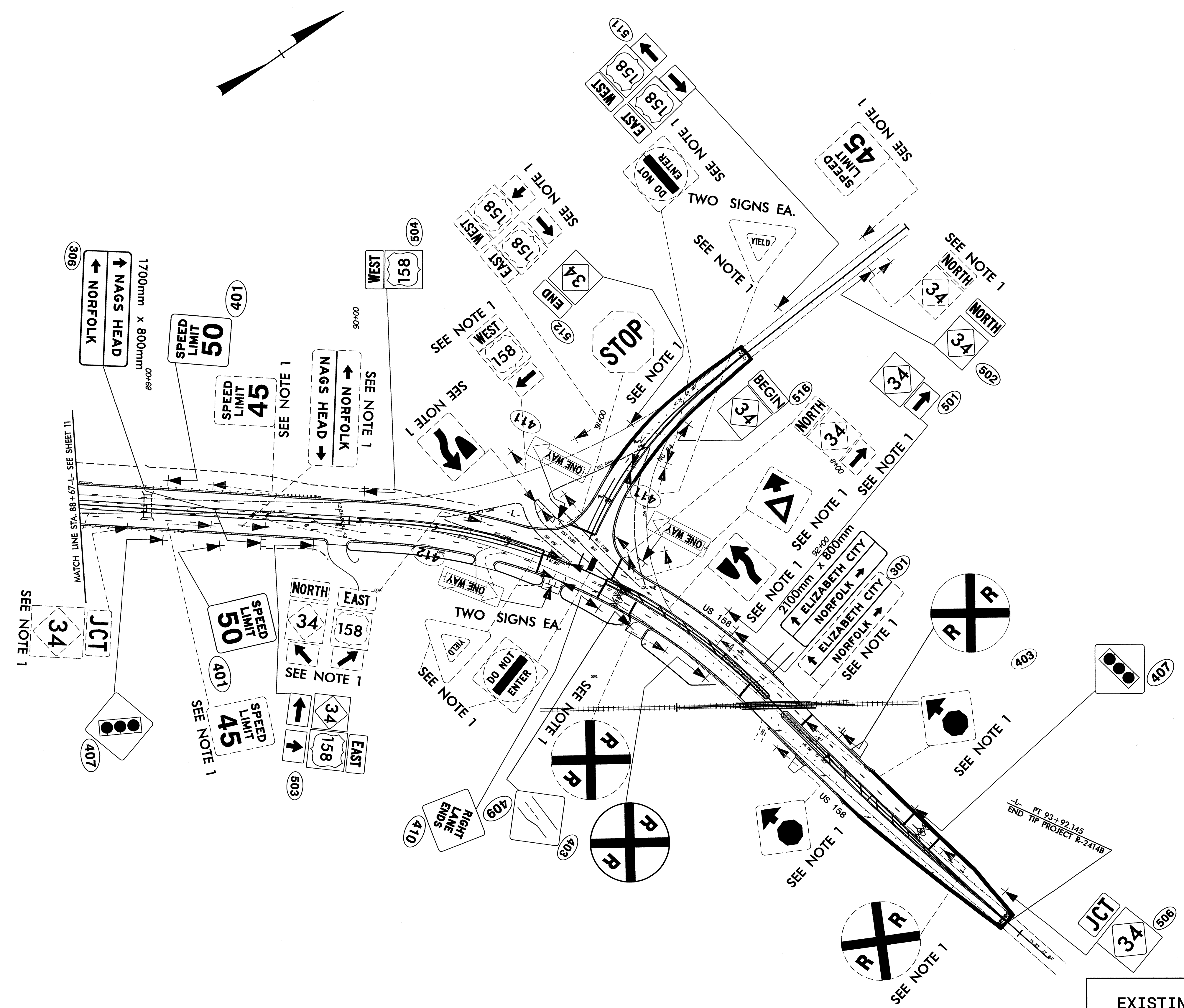


EXISTING SIGNS & PROPOSED SIGNS  
 -L- STA. 87+20 TO -L- STA. 88+67

01-SEP-2010 12:05  
 P:\TIP\Projects\2414B\Traffic\Signing\CA000\Signing Layout\Plans\R-2414B\_Sgn-11.dgn  
 browlin



TIP NO.	R-2414B	SIGN-11
APPROVED:	<i>[Signature]</i>	
DATE:	9/2/10	
SEAL		



1700mm x 800mm  
 ↓ NAGS HEAD  
 ↑ NORFOLK

JCT  
 34

EXISTING SIGNS & PROPOSED SIGNS  
 -L- STA. 88+67 TO -L- STA. 93+92.145

9/15/10 12:08 PM R2414B\Traffic\Signing\CADD\Signing Layout Plans\R-2414B\_Sgn\_11.dgn  
 Aiman I. Al-Qudushi  
 028387