

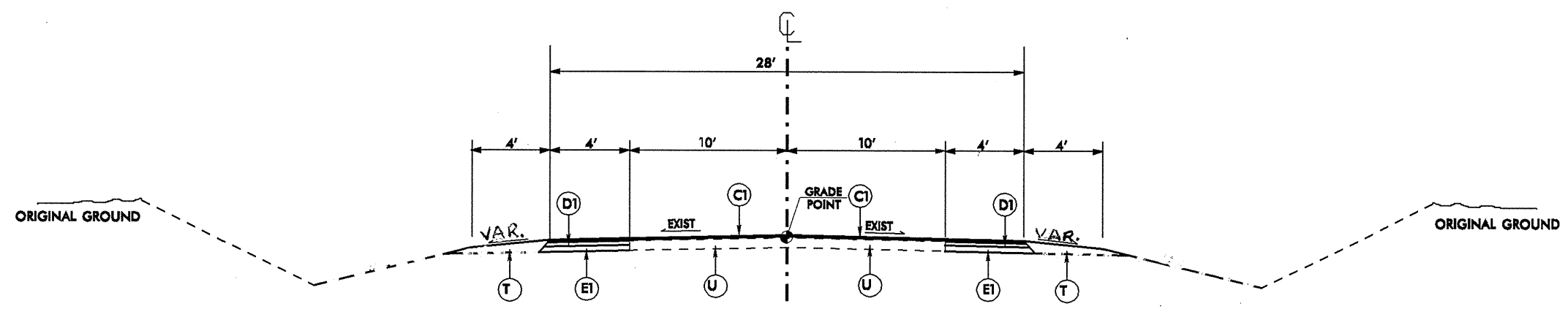


10/26/98

PROJECT REFERENCE NO.		SHEET NO.	
38132		1	
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 3" ASPHALT CONG. SURFACE COURSE, TYPE 89.5B, AT AN AVERAGE RATE OF 168 LB. PER SQ. YD. IN EACH OF TWO LAYERS.
D1	PROP. APPROX. 2 1/2" ASPHALT CONG. INTERMEDIATE COURSE, TYPE I10.0B, AT AN AVERAGE RATE OF 288 LB. PER SQ. YD.
E1	PROP. APPROX. 4" ASPHALT CONG. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 458 LB. PER SQ. YD.
U	EXISTING PAVEMENT.
T	SHOULDER RECONSTRUCTION

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



TYPICAL SECTION #1

MAP #1

All ditches will be moved by State Forces where necessary prior to date of availability.

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PROJECT NO.	SHEET NO.	TOTAL NO.
38132	2	

## SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TON	SHOULDER RECONSTRUCTION SMI	BASE COURSE, B25.0B TONS	INTERMEDIATE COURSE, I19.0B TONS	SURFACE COURSE, S9.5B TONS	PG 64-22 PLANT MIX TONS	ADJUST. OF MANHOLES EA	ADJUST. OF METER OR VALVE BOX EA	SEED & MULCHING AC
38132	Pitt	1	NC 33	FROM WEST CITY LIMITS OF GRIMESLAND TO 5 LANE IN SIMPSON	1	5	28	250	10	6131	3774	15314	1360	1	1	18.00
<b>TOTAL FOR PROJ NO. 38132</b>						<b>5</b>		<b>250</b>	<b>10</b>	<b>6131</b>	<b>3774</b>	<b>15314</b>	<b>1360</b>	<b>1</b>	<b>1</b>	<b>18.00</b>
<b>GRAND TOTAL</b>						<b>5</b>		<b>250</b>	<b>10</b>	<b>6131</b>	<b>3774</b>	<b>15314</b>	<b>1360</b>	<b>1</b>	<b>1</b>	<b>18.00</b>

PROJECT NO.	SHEET NO.	TOTAL NO.
38132	3	



## THERMOPLASTIC AND PAINT QUANTITIES

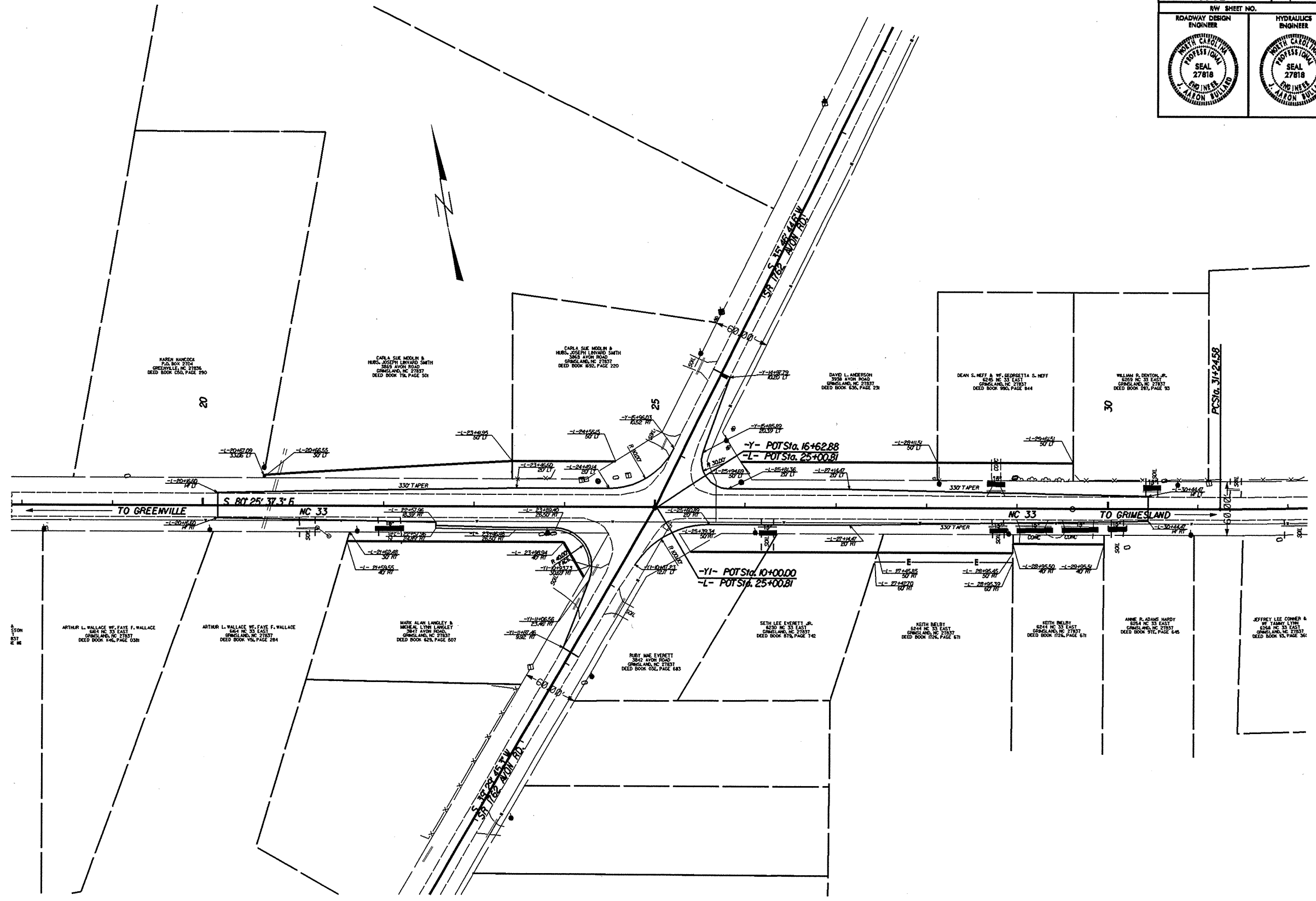
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4685000000-E	4686000000-E		4697000000-E	4725000000-E		4810000000-E	4900000000-N	4900000000-N
					4" X 90 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	8" X 120 M YELLOW THERMO LF	THERMO LT ARROW 90 M EA	THERMO STR & RT ARROW 90 M EA	4" YELLOW PAINT LF	YELLOW & YELLOW MARKERS EA	CRYSTAL & RED MARKERS EA
38132	Pitt	1	NC 33	FROM WEST CITY LIMITS OF GRIMESLAND TO 5 LANE IN SIMPSON	60,000	60,000	300	300	3	2	43,000	420	20
<b>TOTAL FOR PROJ NO. 38132</b>					<b>60,000</b>	<b>60,000</b>	<b>300</b>	<b>300</b>	<b>3</b>	<b>2</b>	<b>43,000</b>	<b>420</b>	<b>20</b>
						<b>60,300</b>			<b>5</b>				
<b>GRAND TOTAL</b>					<b>60,000</b>	<b>60,000</b>	<b>300</b>	<b>300</b>	<b>3</b>	<b>2</b>	<b>43,000</b>	<b>420</b>	<b>20</b>
						<b>60,300</b>			<b>5</b>				

8/17/99

REVISIONS

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PROJECT REFERENCE NO. 38132	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	



## TWO LANE, TWO WAY WORK ZONE (L-LINES)

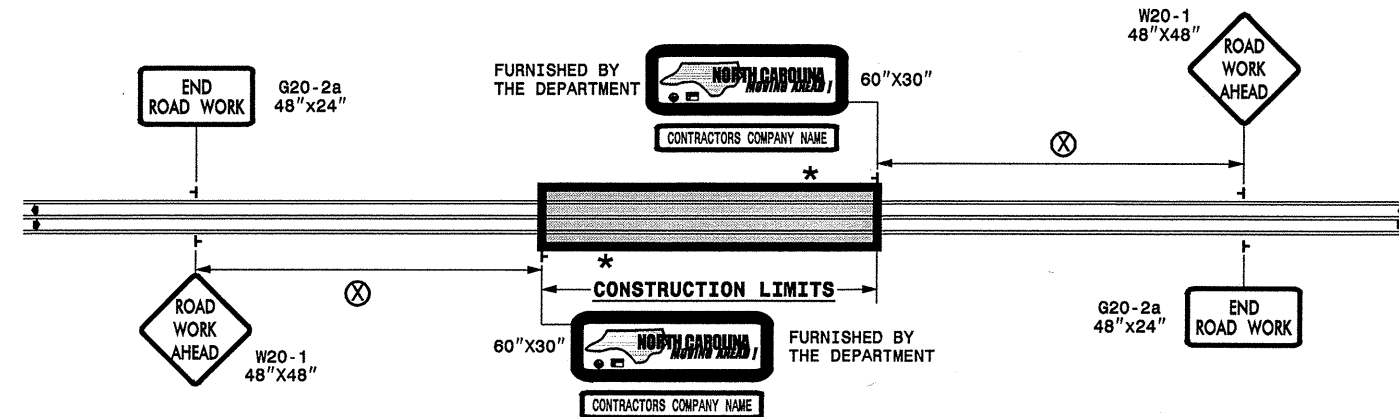
FURNISHED BY THE DEPARTMENT



60" X 30"

CONTRACTORS COMPANY NAME

60" Max. X 12"



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
P.S.L. ≤ 50	350'
P.S.L. ≥ 55	500'

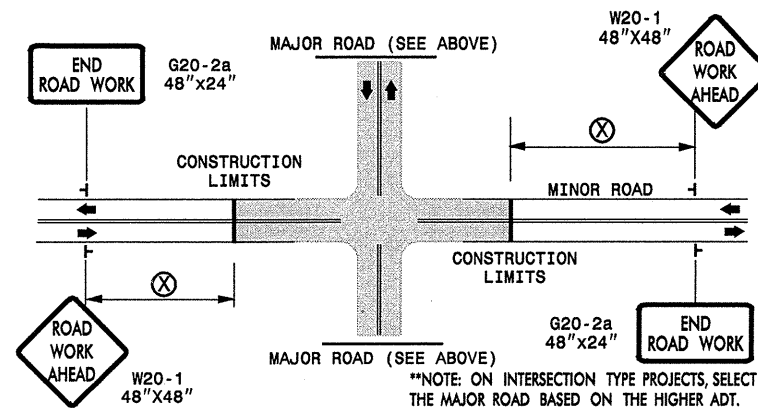
**\* ROAD WORK NEXT XX MILES** G20-1A, 60"X24"

THIS SIGN TO BE USED ON PROJECTS LONGER THAN 2 MILES  
THE NUMBER DISPLAYED ON THE SIGN IS TO BE A WHOLE NUMBER ROUNDED UP TO THE NEXT MILE  
IT'S TO BE LOCATED 1,500 FEET INSIDE OF THE CONSTRUCTION LIMITS

PROJ. REFERENCE NO. WBS 38132	SHEET NO. NCMA-1
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STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

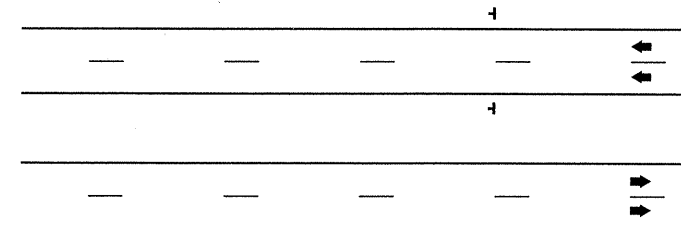
## INTERSECTIONS (-Y- LINES)



## FREEWAYS / INTERSTATES

DUAL MOUNT "ROAD WORK AHEAD" SIGNS 1,000' IN ADVANCE OF PROJECT LIMITS

DUAL MOUNT "MOVING AHEAD" SIGNS 500' IN ADVANCE OF PROJECT LIMITS



### GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED. USE PORTABLE WORK ZONE SIGNS ONLY WITH PORTABLE WORK ZONE SIGN STANDS SPECIFICALLY DESIGNED FOR ONE ANOTHER. PORTABLE WORK ZONE SIGNS MAY BE ROLL UP OR APPROVED COMPOSITE.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.

#### LEGEND

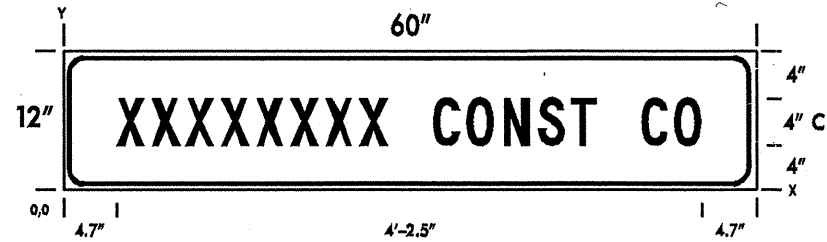
- └ STATIONARY SIGN
- ◀ DIRECTION OF TRAFFIC FLOW

DETAIL DRAWING FOR ADVANCE  
WARNING WORK ZONE SIGNS

SHEET 1 OF 1

APPROVED: _____	DATE: _____	<b>ADVANCE WARNING WORK ZONE SIGNS FOR "MOVING AHEAD"</b>	
SEAL 	SCALE: NONE		
	DATE: 07/03		
	DWG. BY: JSK		
	DESIGN BY: JSK		
REVIEWED BY: SK	REVISIONS	11/04	
	12/04		

**SIGN DETAIL**  
SCALE 1:15



N. C. DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
TRAFFIC ENGINEERING BRANCH

SIGN NUMBER: SPO3331    DESIGN BY: D IVES    DATE: 8-11-03  
 TYPE: D    CHECKED BY:    STD. #: 0  
 QUANTITY: N/A    PROJECT ID:    DIV: N/A  
 WIDTH X HEIGHT: 60" X 12"    BACKGROUND COLOR: ORANGE  
 SIGN AREA: 5.00 SQ. FT.    COPY COLOR: BLACK  
 BORDER TYPE: FLUSH    MAJ COPY SERIES: C  
 RECESS: 0.375"    2 U CHANNEL POST (8)  
 BORDER WIDTH: 0.375"    MAT'L: 0.125" ALUMINUM  
 RADII: 1.5"

NOTES:  
 -Legend and border shall be direct applied non-reflective sheeting.  
 -Background shall be Type I reflective sheeting.  
 -If needed, letter size for contractor's name shall be reduced so sign shall not exceed 60 inches in width.  
 -To be mounted beneath "NC Moving Ahead" sign.

DIMENSIONS IN INCHES

SPACINGS ARE TO START OF NEXT LETTER

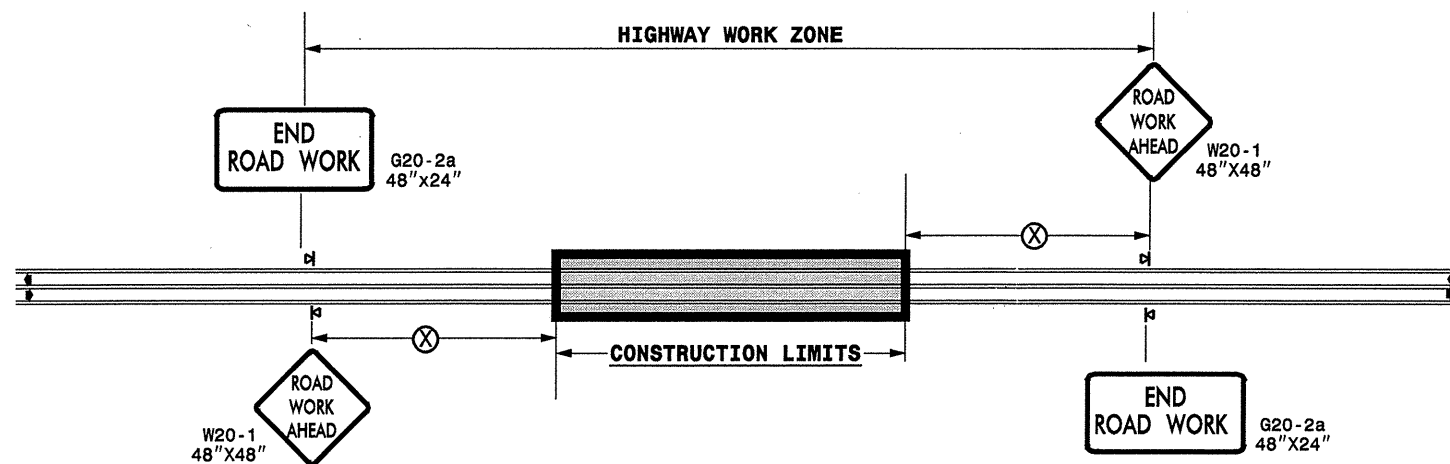
Y FONT	LETTER SPACINGS																		HT LEN		
4.0	X	X	X	X	X	X	X	X	X	C	O	N	S	T	C	O					4.0
C	4.7	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.3	4.0	2.9	3.1	3.0	2.9	2.0	4.0	2.9	2.3	4.7	50.5	

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 I:\work\projects\resurfacing projects\division 2\38822\movingahead -contractor -sign.dgn  
 gbper1

APPROVED: _____	DATE: _____	<b>SIGN DESIGN FOR CONTRACTORS COMPANY NAME</b>	
		DATE: _____	
		DWG. BY: _____	
		DESIGN BY: _____	
REVIEWED BY: _____			

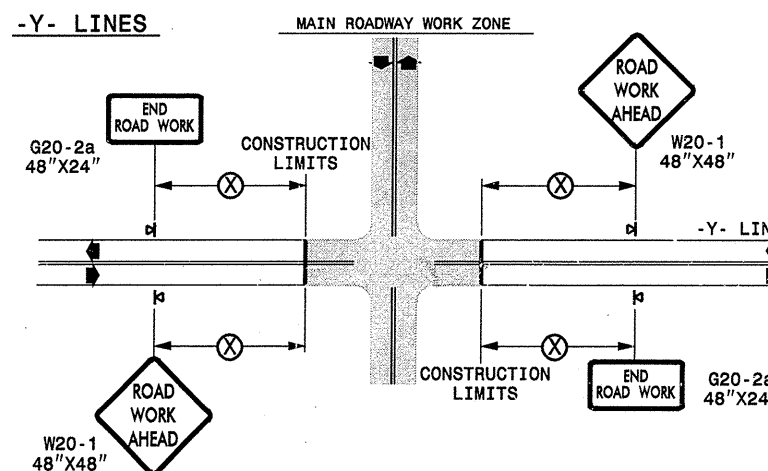
**TWO-WAY UNDIVIDED \*\* (L-LINES)**



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 50	500'
≥ 55	1000'

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

**ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)**



DETAIL DRAWING  
FOR TWO-WAY UNDIVIDED  
WORK ZONE WARNING SIGNS

**GENERAL NOTES**


- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE PORTABLE WORK ZONE SIGNS ONLY WITH PORTABLE WORK ZONE SIGN STANDS SPECIFICALLY DESIGNED FOR ONE ANOTHER. PORTABLE WORK ZONE SIGNS MAY BE ROLL UP OR APPROVED COMPOSITE.
- PROVIDE PORTABLE WORK ZONE SIGN STANDS, PORTABLE SIGNS AND SIGN SHEETING WHICH ARE LISTED ON THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION'S APPROVED PRODUCT LIST OR ACCEPTED AS TRAFFIC QUALIFIED BY THE TRAFFIC CONTROL UNIT.
- \*\* TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

**LEGEND**

◀ PORTABLE SIGN

➡ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1

APPROVED: _____ DATE: _____	DETAIL DRAWING FOR TWO-WAY UNDIVIDED ADVANCED WORK ZONE WARNING SIGNS		
SEAL	SCALE: NONE		
	DATE: _____		REVISIONS
	DESIGN BY: _____		7-98 10/01
	REVIEWED BY: _____		10-98 03/04 01/01 11/04

23 MAY 2006 17:27  
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 Designor: AT WZTCCC06421