

CHANGEABLE MESSAGE BOARDS

CMS-1
 PRIOR TO DETOUR
 (10 DAYS PRIOR TO BEGINNING OF DETOUR)
 RAMP TO SR 273 TO CLOSE STARTING XXXXXX

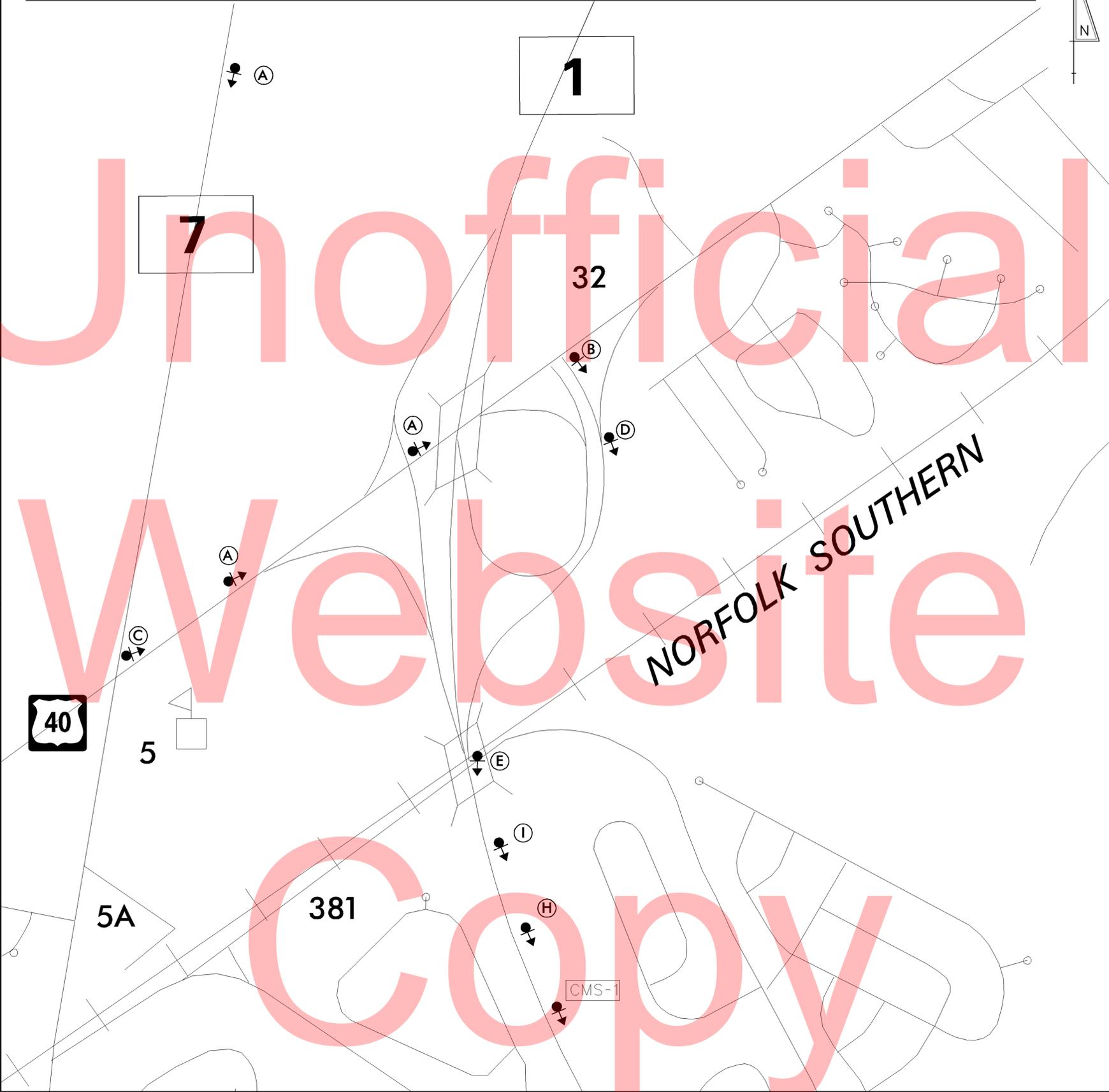
CMS-1
 DURING DETOUR
 RAMP TO SR 273 CLOSED FOLLOW DETOUR

CMS-2
 PRIOR TO DETOUR
 (10 DAYS PRIOR TO BEGINNING OF DETOUR)
 XXXXXXXX XXXXXXXX
 XXXXXXXX XXXXXXXX
 XXXXXXXX XXXXXXXX

CMS-2
 DURING DETOUR
 XXXXXXXX XXXXXXXX
 XXXXXXXX XXXXXXXX
 XXXXXXXX XXXXXXXX

SPECIAL SIGNS

MATCHLINE – SEE SHEET 60



LEGEND

A DETOUR TO 273 ↑	B DETOUR TO 273 ←	C DETOUR TO 273 →
D DETOUR TO 273 ↙	E DETOUR TO 273 ↘	F END DETOUR
G DETOUR AHEAD	H DETOUR 1000 FT	I DETOUR 500 FT
J RAMP CLOSED AHEAD	K RAMP CLOSED 1000 FT	L RAMP CLOSED 500 FT
M ROAD NAME	N DETOUR ←	O DETOUR →
P ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY	Q RAMP CLOSED	R ROAD CLOSED TO THRU TRAFFIC
S BARRICADE	T BARRICADE	

GENERAL NOTES

- ALL DETOUR SIGNING INCLUDING TRAILBLAZERS, ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR IN COMPLIANCE TO THE DE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL COMPLY WITH GUIDELINES IN "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE-MUTCD PART 6) FOR LIGHTS, BARRICADES AND SIGNS, AS PER LATEST REVISION)
- FIELD CONDITIONS MAY DICTATE CHANGES AT SOME TIME DURING THE LIFE OF THE CONTRACT. IN THE EVENT OF OMISSIONS OR CORRECTIONS, THE SIGNING PROVISIONS OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES WILL PREVAIL.
- SIGNS J THROUGH L AND P THROUGH R, THE WORD (ROAD) SHOULD BE CHANGED TO RAMP, R/R OR BRIDGE WHERE APPLICABLE.
- WARNING SIGNS SHOULD BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLUORESCENT SHEETING.
- "S" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF ROADWAY.
- BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

RECOMMENDED _____ DATE: _____ APPROVED CHIEF SAFETY OFFICER _____ DATE: _____ APPROVED TRAFFIC ENGINEER _____ DATE: _____



ADDENDUM / REVISIONS

NOT TO SCALE

**SR 1 NORTHBOUND
 AUXILIARY LANE
 US 40 TO SR 273**

CONTRACT T201511001	PERMIT NO. NA
COUNTY NEW CASTLE	DESIGNED BY: SKG
	CHECKED BY: ASW

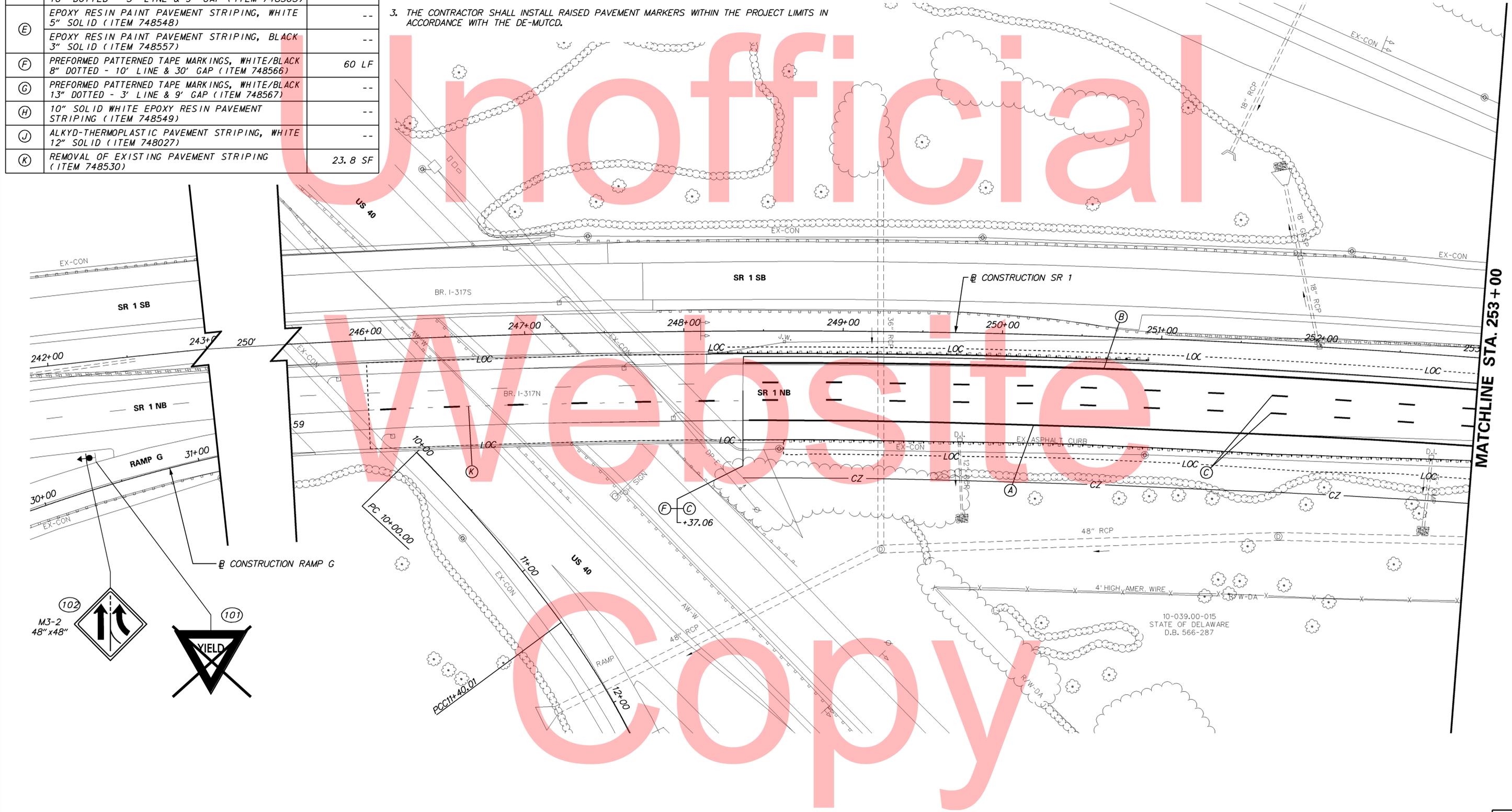
**DETOUR PLAN
 EXIT RAMP
 SR 1 NB TO SR 273**

SHEET NO. 61
TOTAL SHTS. 77

\\BALSRV02\2015\11009_TYBOUTS_SR\WIDE_NBAUXLANE\CADD\CONTRACT\PLANS\DP04_NBAUXLNDGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	460 LF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548)	460 LF
(C)	PERFORMED TAPE PAVEMENT MARKINGS, WHITE 5" BROKEN - 10' LINE & 30' GAP (ITEM 748564)	230 LF
(D)	PERFORMED TAPE PAVEMENT MARKINGS, WHITE 10" DOTTED - 3' LINE & 9' GAP (ITEM 748565)	--
(E)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	--
(F)	EPOXY RESIN PAINT PAVEMENT STRIPING, BLACK 3" SOLID (ITEM 748557)	--
(G)	PERFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 8" DOTTED - 10' LINE & 30' GAP (ITEM 748566)	60 LF
(H)	PERFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 13" DOTTED - 3' LINE & 9' GAP (ITEM 748567)	--
(I)	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748549)	--
(J)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 12" SOLID (ITEM 748027)	--
(K)	REMOVAL OF EXISTING PAVEMENT STRIPING (ITEM 748530)	23.8 SF

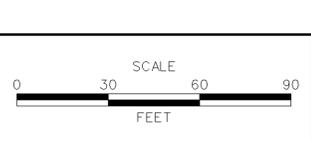
- NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSTALLATION AND REMOVAL OF ALL PROPOSED, TEMPORARY AND EXISTING MARKINGS AS REQUIRED. ALL PROPOSED MARKINGS SHALL TIE INTO EXISTING MARKINGS IN ACCORDANCE WITH THE MUTCD AND AS DIRECTED BY THE DELDOT'S CONSTRUCTION ENGINEER.
 - THE CONTRACTOR SHALL INSTALL AND REMOVE THE REGULATORY, WARNING, AND SPECIAL SIGNS AND POSTS WITHIN THE CONTRACT LIMITS, AS SHOWN. DELDOT SHALL FABRICATE AND SUPPLY THE REGULATORY, WARNING, AND SPECIAL SIGNS AND POSTS TO THE CONTRACTOR. FOR COORDINATION AND PICK UP OF ALL SIGNS AND POSTS, THE CONTRACTOR SHALL CONTACT DELDOT'S SIGN SHOP AT 302.760.2581. ALLOW FOUR (4) WEEKS FOR DELIVERY. ALL SIGNING MATERIALS REMOVED FROM THIS PROJECT SHALL BE RETURNED TO DELDOT'S SIGN SHOP.
 - THE CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH THE DE-MUTCD.



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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS



SR 1 NORTHBOUND AUXILIARY LANE US 40 TO SR 273

CONTRACT	BRIDGE NO.	1-319N
T201511001	DESIGNED BY:	SM
COUNTY	CHECKED BY:	JCR
NEW CASTLE		

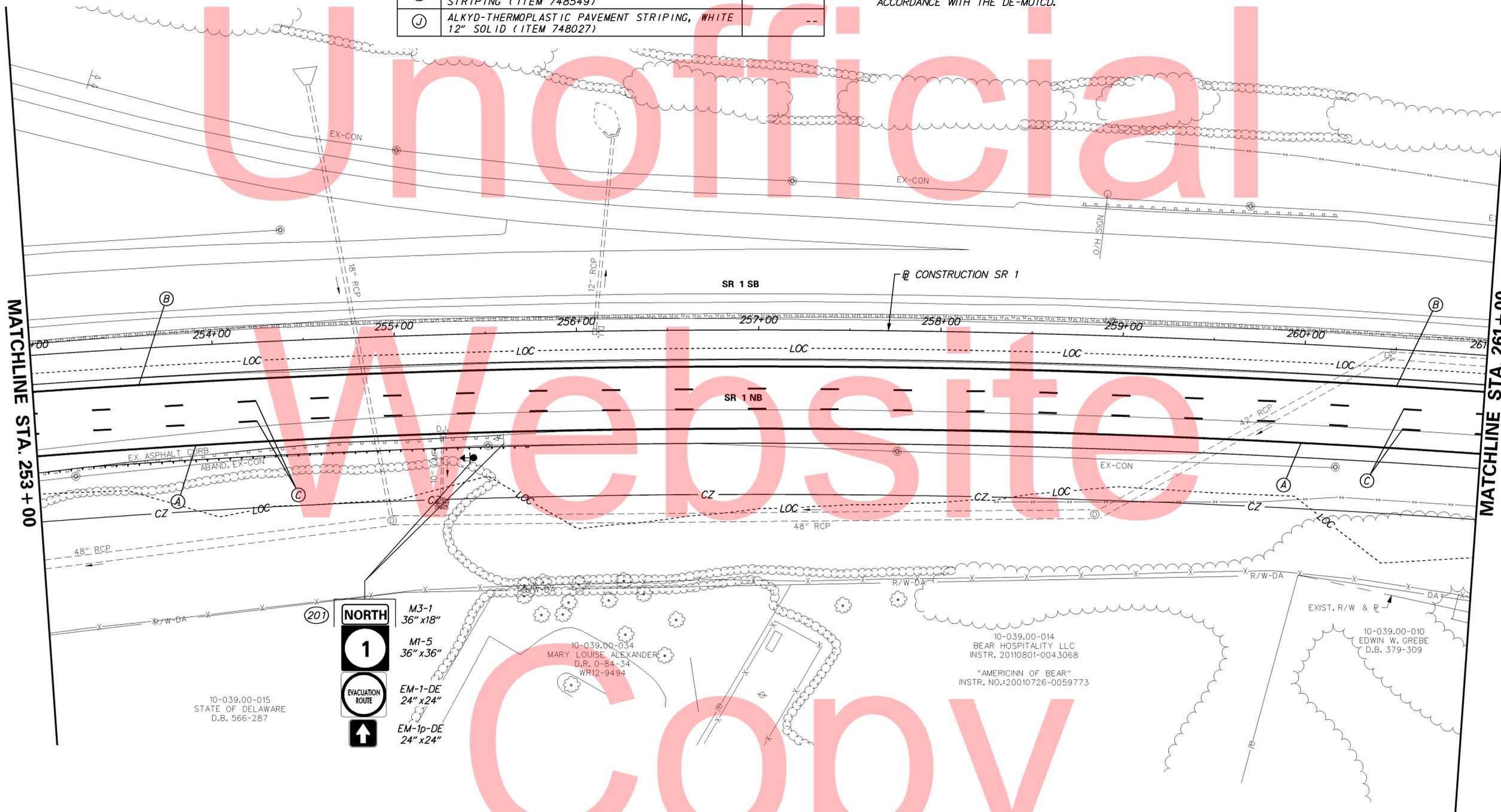
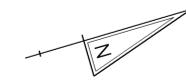
SIGNING, STRIPING & CONDUIT PLAN	SS-01
	SHEET NO. 62
	TOTAL SHTS. 77

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	700 LF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548)	700 LF
(C)	PREFORMED TAPE PAVEMENT MARKINGS, WHITE 5" BROKEN - 10' LINE & 30' GAP (ITEM 748564)	350 LF
(D)	PREFORMED TAPE PAVEMENT MARKINGS, WHITE 10" DOTTED - 3' LINE & 9' GAP (ITEM 748565)	--

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(E)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	--
(F)	EPOXY RESIN PAINT PAVEMENT STRIPING, BLACK 3" SOLID (ITEM 748557)	--
(G)	PREFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 8" DOTTED - 10' LINE & 30' GAP (ITEM 748566)	--
(H)	PREFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 13" DOTTED - 3' LINE & 9' GAP (ITEM 748567)	--
(I)	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748549)	--
(J)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 12" SOLID (ITEM 748027)	--

NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSTALLATION AND REMOVAL OF ALL PROPOSED, TEMPORARY AND EXISTING MARKINGS AS REQUIRED. ALL PROPOSED MARKINGS SHALL TIE INTO EXISTING MARKINGS IN ACCORDANCE WITH THE MUTCD AND AS DIRECTED BY THE DELDOT'S CONSTRUCTION ENGINEER.
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3. THE CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH THE DE-MUTCD.



NORTH
 1
 EVACUATION ROUTE
 ↑

M3-1
 36" x 18"
 M1-5
 36" x 36"
 EM-1-DE
 24" x 24"
 EM-1p-DE
 24" x 24"

10-039.00-015
STATE OF DELAWARE
D.B. 566-287

10-039.00-034
MARY LOUISE ALEXANDER
D.R. 0-84-34
WR12-9494

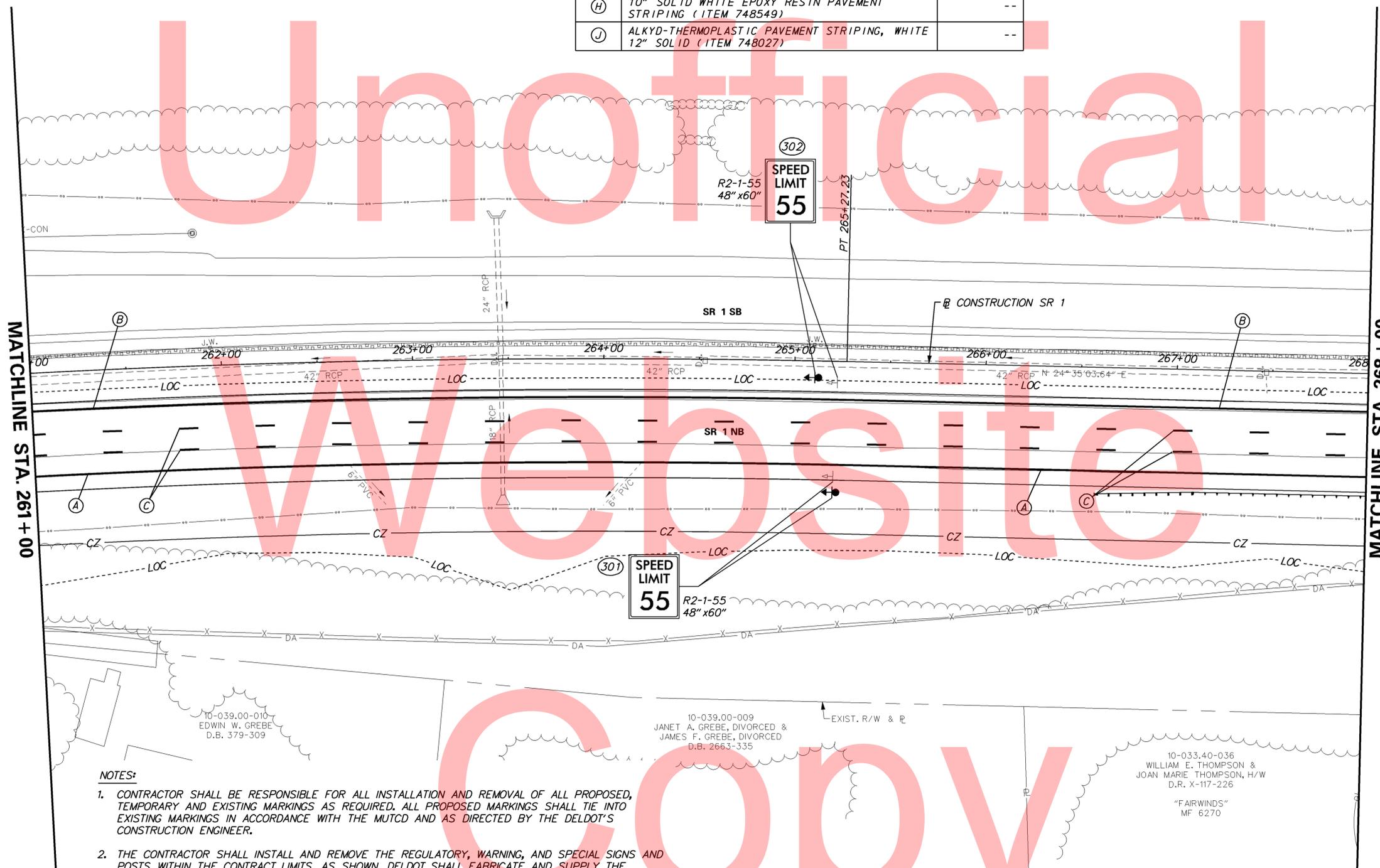
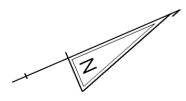
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BEAR HOSPITALITY LLC
INSTR. 20110801-0043068
"AMERICINN OF BEAR"
INSTR. NO.:20010726-0059773

EXIST. R/W & P
10-039.00-010
EDWIN W. GREBE
D.B. 379-309

5/27/2015 9:09:56 AM \\BALSRO2\V2011\11009_TYBOUTS\SR1WIDE_NBAUXLANE\CADD\CONTRACT\PLANS\CP_SSC02_NBAUXLN.DGN

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	700 LF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548)	700 LF
(C)	PREFORMED TAPE PAVEMENT MARKINGS, WHITE 5" BROKEN - 10' LINE & 30' GAP (ITEM 748564)	350 LF
(D)	PREFORMED TAPE PAVEMENT MARKINGS, WHITE 10" DOTTED - 3' LINE & 9' GAP (ITEM 748565)	--

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(E)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	--
(F)	EPOXY RESIN PAINT PAVEMENT STRIPING, BLACK 3" SOLID (ITEM 748557)	--
(G)	PREFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 8" DOTTED - 10' LINE & 30' GAP (ITEM 748566)	--
(H)	PREFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 13" DOTTED - 3' LINE & 9' GAP (ITEM 748567)	--
(I)	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748549)	--
(J)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 12" SOLID (ITEM 748027)	--



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ADDENDUMS / REVISIONS



**SR 1 NORTHBOUND
AUXILIARY LANE
US 40 TO SR 273**

CONTRACT	BRIDGE NO.	1-319N
T20151001	DESIGNED BY:	SM
COUNTY	CHECKED BY:	JCR
NEW CASTLE		

**SIGNING, STRIPING &
CONDUIT PLAN**

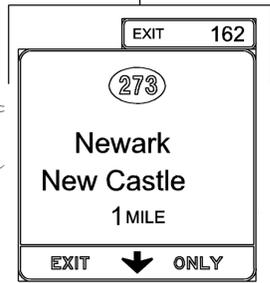
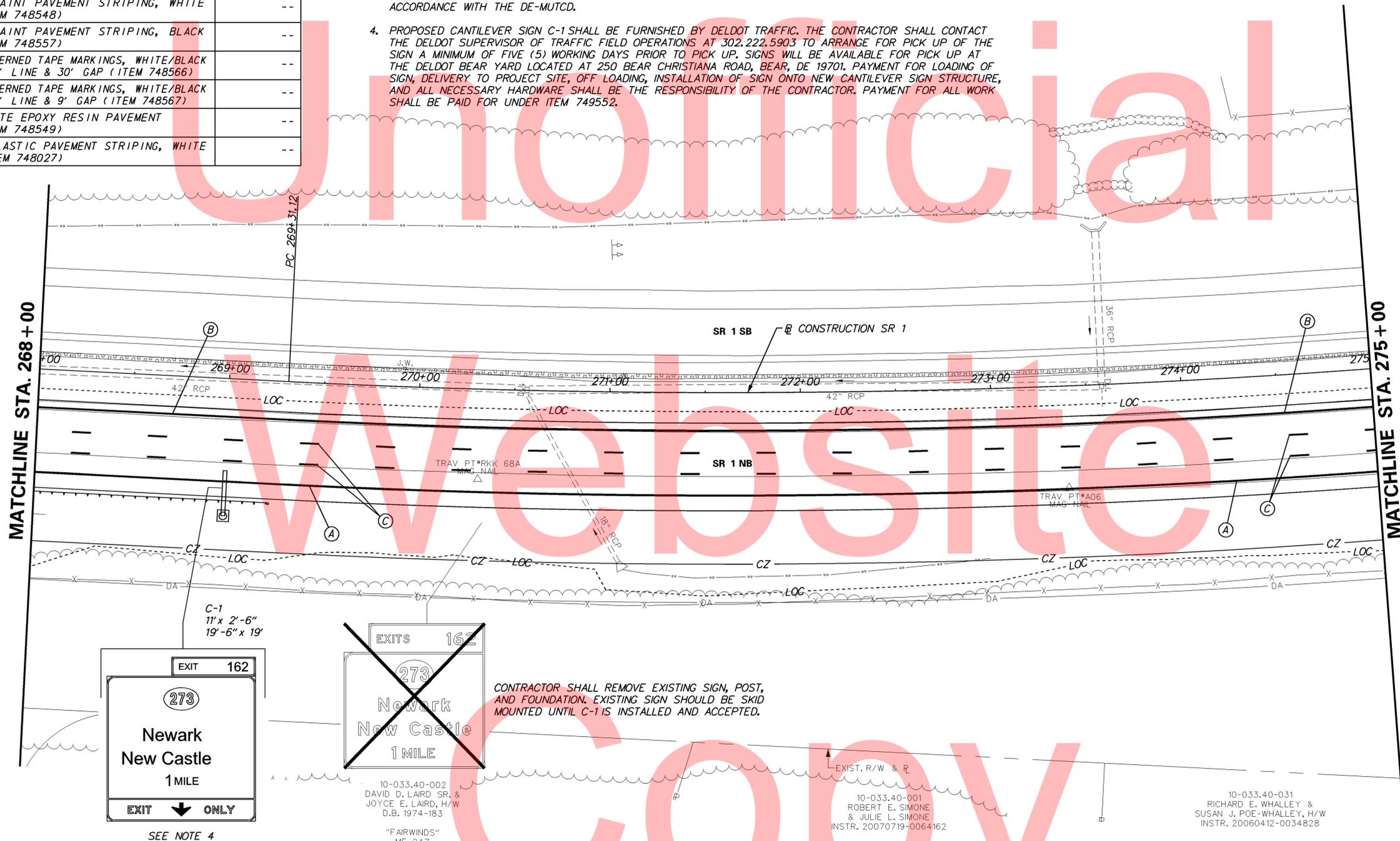
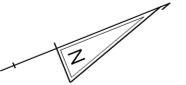
SS-03
SHEET NO.
64
TOTAL SHTS.
77

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	700 LF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548)	700 LF
(C)	PREFORMED TAPE PAVEMENT MARKINGS, WHITE 5" BROKEN - 10' LINE & 30' GAP (ITEM 748564)	350 LF
(D)	PREFORMED TAPE PAVEMENT MARKINGS, WHITE 10" DOTTED - 3' LINE & 9" GAP (ITEM 748565)	--
(E)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	--
(F)	EPOXY RESIN PAINT PAVEMENT STRIPING, BLACK 3" SOLID (ITEM 748557)	--
(G)	PREFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 8" DOTTED - 10' LINE & 30' GAP (ITEM 748566)	--
(H)	PREFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 13" DOTTED - 3' LINE & 9" GAP (ITEM 748567)	--
(I)	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748549)	--
(J)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 12" SOLID (ITEM 748027)	--

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- THE CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH THE DE-MUTCD.
- PROPOSED CANTILEVER SIGN C-1 SHALL BE FURNISHED BY DELDOT TRAFFIC. THE CONTRACTOR SHALL CONTACT THE DELDOT SUPERVISOR OF TRAFFIC FIELD OPERATIONS AT 302.222.5903 TO ARRANGE FOR PICK UP OF THE SIGN A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO PICK UP. SIGNS WILL BE AVAILABLE FOR PICK UP AT THE DELDOT BEAR YARD LOCATED AT 250 BEAR CHRISTIANA ROAD, BEAR, DE 19701. PAYMENT FOR LOADING OF SIGN, DELIVERY TO PROJECT SITE, OFF LOADING, INSTALLATION OF SIGN ONTO NEW CANTILEVER SIGN STRUCTURE, AND ALL NECESSARY HARDWARE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PAYMENT FOR ALL WORK SHALL BE PAID FOR UNDER ITEM 749552.



10-033.40-002
DAVID D. LAIRD, SR. &
JOYCE E. LAIRD, H/W
D.B. 1974-183
"FAIRWINDS"
MF 247

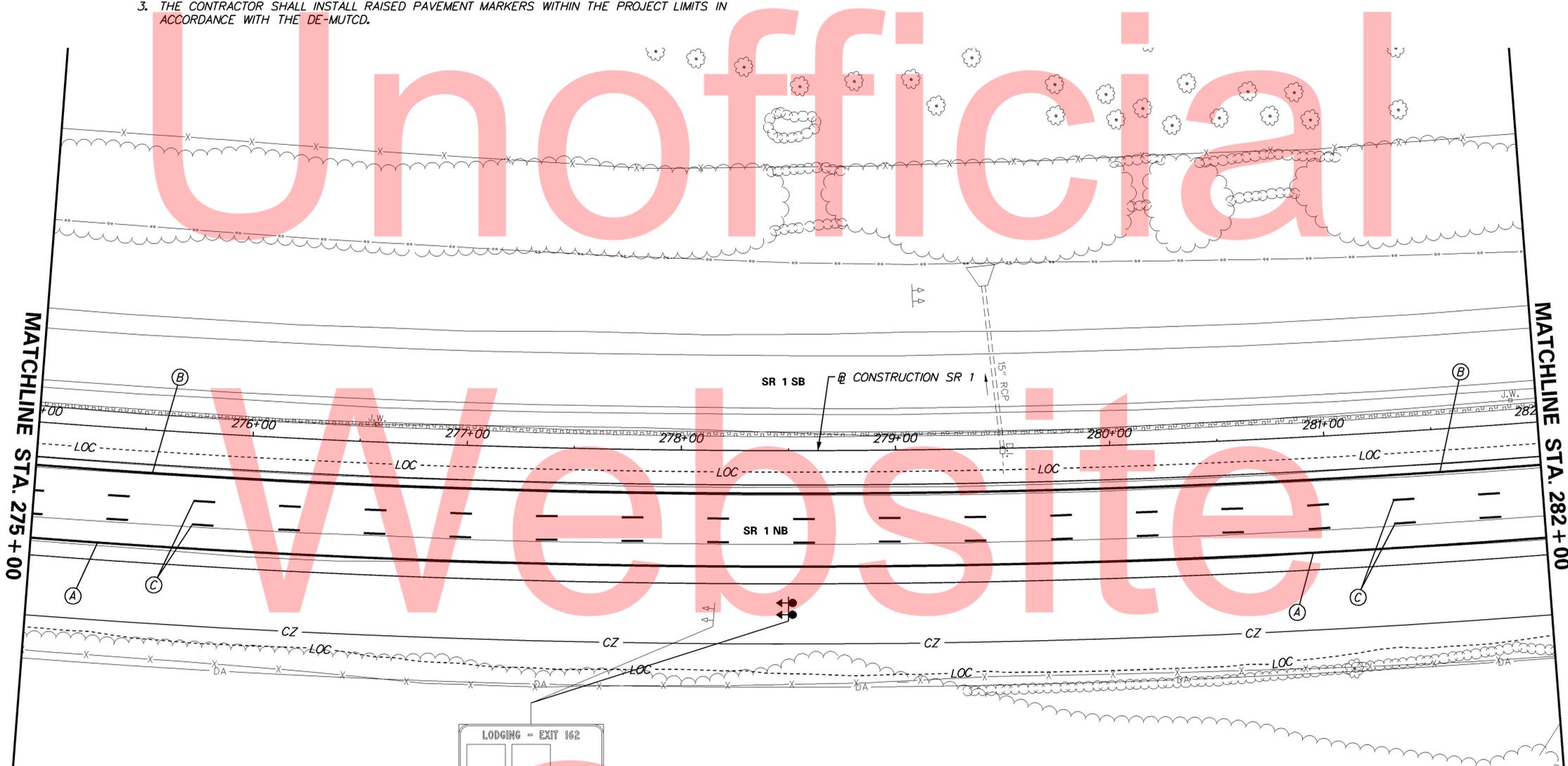
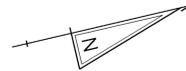
10-033.40-001
ROBERT E. SIMONE
& JULIE L. SIMONE
INSTR. 20070719-0064162

10-033.40-031
RICHARD E. WHALLEY &
SUSAN J. POE-WHALLEY, H/W
INSTR. 20060412-0034828

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PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	700 LF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548)	700 LF
(C)	PREFORMED TAPE PAVEMENT MARKINGS, WHITE 5" BROKEN - 10' LINE & 30' GAP (ITEM 748564)	350 LF
(D)	PREFORMED TAPE PAVEMENT MARKINGS, WHITE 10" DOTTED - 3' LINE & 9' GAP (ITEM 748565)	--
(E)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	--
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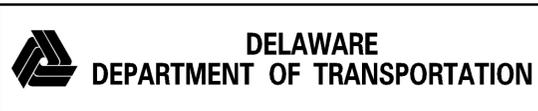
EXISTING SERVICE SIGN TO BE RELOCATED BY OTHERS.

PAVEMENT MARKINGS LEGEND

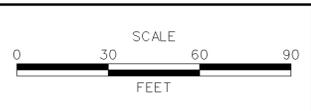
SYMBOL	ITEM	QUANTITY
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(H)	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748549)	--
(J)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 12" SOLID (ITEM 748027)	--

10-033.20-223
 WETHERSFIELD MAINTENANCE CORPORATION
 INSTR. 20050216-0016012
 "WETHERSFIELD"
 MF 10489

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ADDENDUMS / REVISIONS



**SR 1 NORTHBOUND
 AUXILIARY LANE
 US 40 TO SR 273**

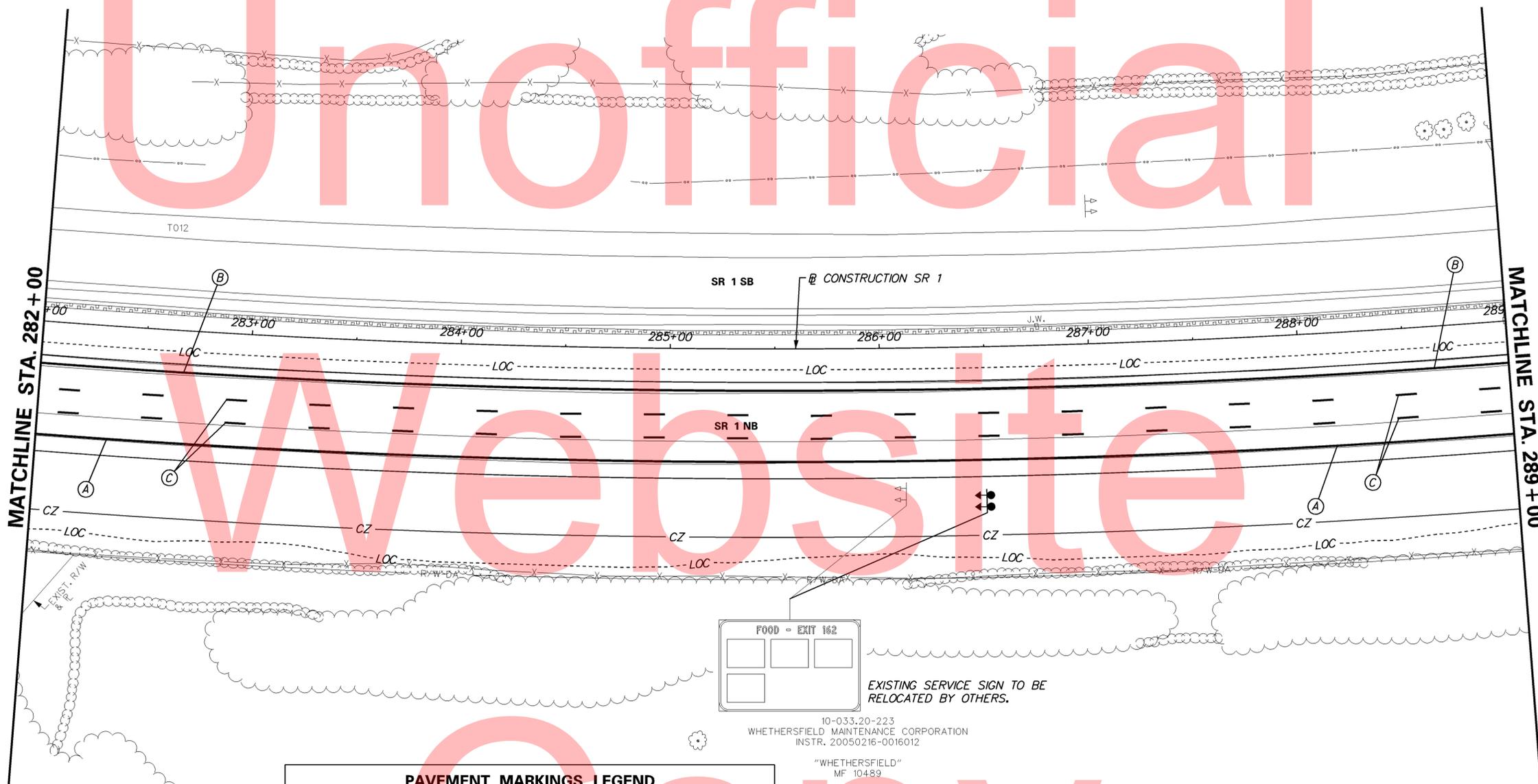
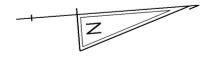
CONTRACT T201511001	BRIDGE NO. 1-319N
COUNTY NEW CASTLE	DESIGNED BY: SM
	CHECKED BY: JCR

**SIGNING, STRIPING &
 CONDUIT PLAN**

SS-05
SHEET NO. 66
TOTAL SHTS. 77

NOTES:

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PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	700 LF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548)	700 LF
(C)	PREFORMED TAPE PAVEMENT MARKINGS, WHITE 5" BROKEN - 10' LINE & 30' GAP (ITEM 748564)	350 LF
(D)	PREFORMED TAPE PAVEMENT MARKINGS, WHITE 10" DOTTED - 3' LINE & 9' GAP (ITEM 748565)	--
(E)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	--
	EPOXY RESIN PAINT PAVEMENT STRIPING, BLACK 3" SOLID (ITEM 748557)	--

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(F)	PREFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 8" DOTTED - 10' LINE & 30' GAP (ITEM 748566)	--
(G)	PREFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 13" DOTTED - 3' LINE & 9' GAP (ITEM 748567)	--
(H)	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748549)	--
(J)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 12" SOLID (ITEM 748027)	--

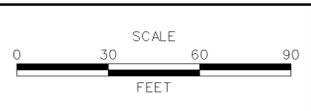
FOOD - EXIT 162
 EXISTING SERVICE SIGN TO BE RELOCATED BY OTHERS.

10-033.20-223
 WETHERSFIELD MAINTENANCE CORPORATION
 INSTR. 20050216-0016012

"WETHERSFIELD"
 MF 10489

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ADDENDUMS / REVISIONS



SR 1 NORTHBOUND AUXILIARY LANE US 40 TO SR 273

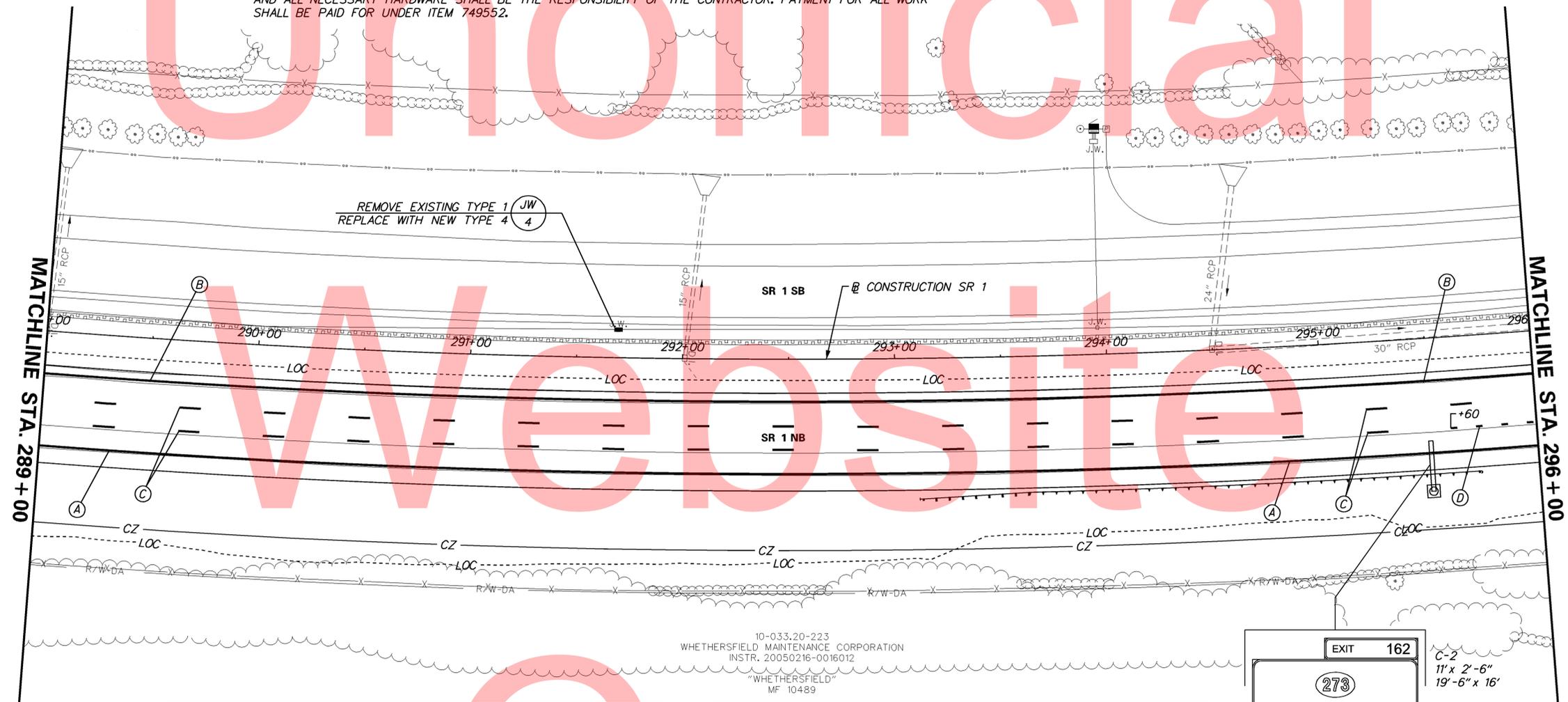
CONTRACT T201511001	BRIDGE NO. 1-319N
COUNTY NEW CASTLE	DESIGNED BY: SM CHECKED BY: JCR

SIGNING, STRIPING & CONDUIT PLAN

SS-06
SHEET NO. 67
TOTAL SHTS. 77

NOTES:

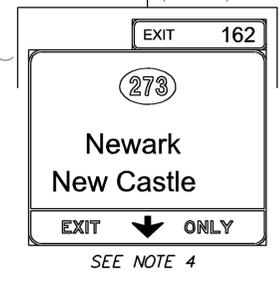
1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSTALLATION AND REMOVAL OF ALL PROPOSED, TEMPORARY AND EXISTING MARKINGS AS REQUIRED. ALL PROPOSED MARKINGS SHALL TIE INTO EXISTING MARKINGS IN ACCORDANCE WITH THE MUTCD AND AS DIRECTED BY THE DELDOT'S CONSTRUCTION ENGINEER.
2. THE CONTRACTOR SHALL INSTALL AND REMOVE THE REGULATORY, WARNING, AND SPECIAL SIGNS AND POSTS WITHIN THE CONTRACT LIMITS, AS SHOWN. DELDOT SHALL FABRICATE AND SUPPLY THE REGULATORY, WARNING, AND SPECIAL SIGNS AND POSTS TO THE CONTRACTOR. FOR COORDINATION AND PICK UP OF ALL SIGNS AND POSTS, THE CONTRACTOR SHALL CONTACT DELDOT'S SIGN SHOP AT 302.760.2581. ALLOW FOUR (4) WEEKS FOR DELIVERY. ALL SIGNING MATERIALS REMOVED FROM THIS PROJECT SHALL BE RETURNED TO DELDOT'S SIGN SHOP.
3. THE CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH THE DE-MUTCD.
4. PROPOSED CANTILEVER SIGN C-2 SHALL BE FURNISHED BY DELDOT TRAFFIC. THE CONTRACTOR SHALL CONTACT THE DELDOT SUPERVISOR OF TRAFFIC FIELD OPERATIONS AT 302.222.5903 TO ARRANGE FOR PICK UP OF THE SIGN A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO PICK UP. SIGNS WILL BE AVAILABLE FOR PICK UP AT THE DELDOT BEAR YARD LOCATED AT 250 BEAR CHRISTIANA ROAD, BEAR, DE 19701. PAYMENT FOR LOADING OF SIGN, DELIVERY TO PROJECT SITE, OFF LOADING, INSTALLATION OF SIGN ONTO NEW CANTILEVER SIGN STRUCTURE, AND ALL NECESSARY HARDWARE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PAYMENT FOR ALL WORK SHALL BE PAID FOR UNDER ITEM 749552.



10-033.20-223
 WETHERSFIELD MAINTENANCE CORPORATION
 INSTR. 20050216-0016012
 "WETHERSFIELD"
 MF 10489

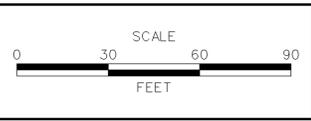
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	700 LF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548)	700 LF
(C)	PREFORMED TAPE PAVEMENT MARKINGS, WHITE 5" BROKEN - 10' LINE & 30' GAP (ITEM 748564)	340 LF
(D)	PREFORMED TAPE PAVEMENT MARKINGS, WHITE 10" DOTTED - 3' LINE & 9' GAP (ITEM 748565)	15 LF

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(E)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	--
(F)	EPOXY RESIN PAINT PAVEMENT STRIPING, BLACK 3" SOLID (ITEM 748557)	--
(G)	PREFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 8" DOTTED - 10' LINE & 30' GAP (ITEM 748566)	--
(H)	PREFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 13" DOTTED - 3' LINE & 9' GAP (ITEM 748567)	--
(I)	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748549)	--
(J)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 12" SOLID (ITEM 748027)	--



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ADDENDUMS / REVISIONS	



SR 1 NORTHBOUND
AUXILIARY LANE
US 40 TO SR 273

CONTRACT	BRIDGE NO.	1-319N
T20151001	DESIGNED BY:	SM
COUNTY	CHECKED BY:	JCR
NEW CASTLE		

SIGNING, STRIPING & CONDUIT PLAN

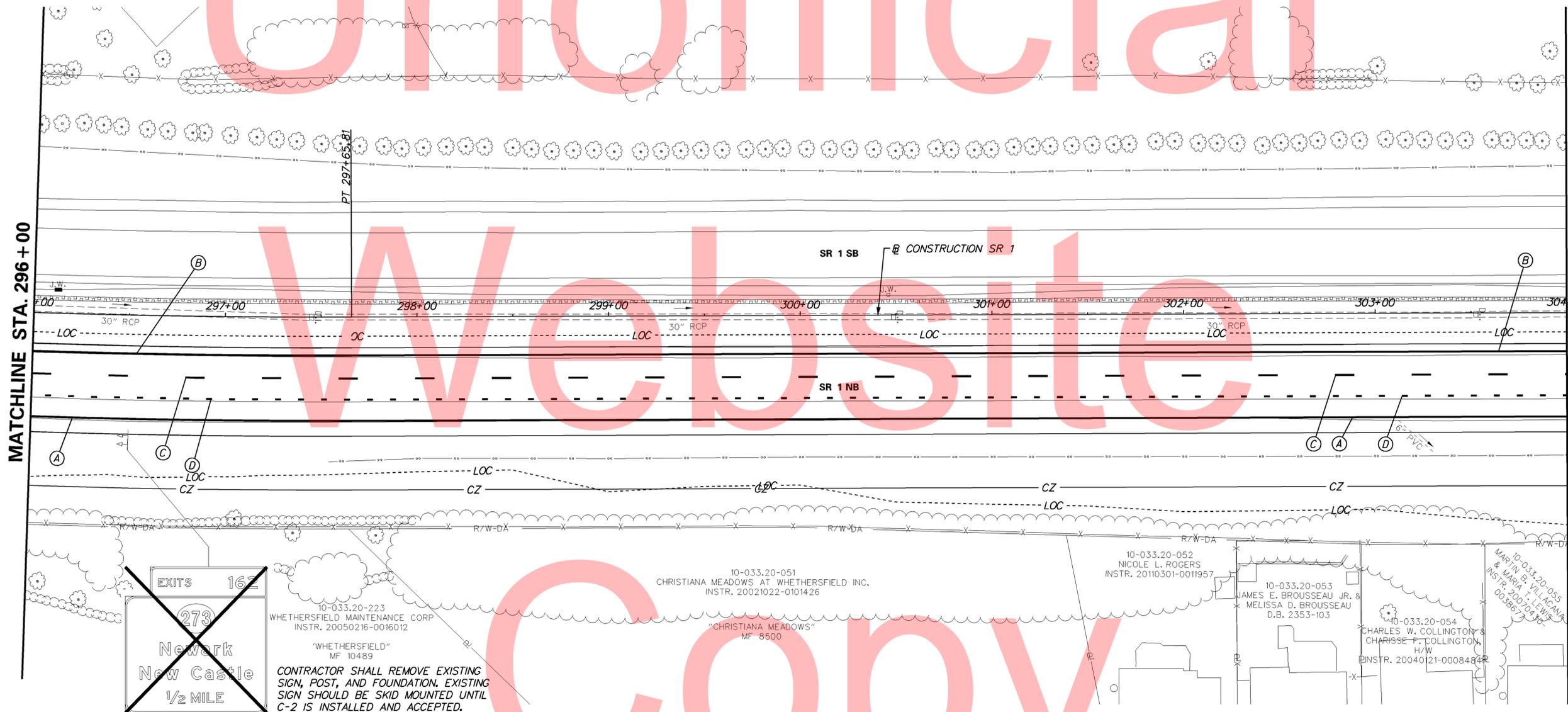
SS-07
SHEET NO.
68
TOTAL SHTS.
77

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	800 LF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548)	800 LF
(C)	PREFORMED TAPE PAVEMENT MARKINGS, WHITE 5" BROKEN - 10' LINE & 30' GAP (ITEM 748564)	200 LF
(D)	PREFORMED TAPE PAVEMENT MARKINGS, WHITE 10" DOTTED - 3' LINE & 9' GAP (ITEM 748565)	200 LF
(E)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	--
(E)	EPOXY RESIN PAINT PAVEMENT STRIPING, BLACK 3" SOLID (ITEM 748557)	--
(F)	PREFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 8" DOTTED - 10' LINE & 30' GAP (ITEM 748566)	--

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(G)	PREFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 13" DOTTED - 3' LINE & 9' GAP (ITEM 748567)	--
(H)	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748549)	--
(J)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 12" SOLID (ITEM 748027)	--

NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSTALLATION AND REMOVAL OF ALL PROPOSED, TEMPORARY AND EXISTING MARKINGS AS REQUIRED. ALL PROPOSED MARKINGS SHALL TIE INTO EXISTING MARKINGS IN ACCORDANCE WITH THE MUTCD AND AS DIRECTED BY THE DELDOT'S CONSTRUCTION ENGINEER.
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3. THE CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH THE DE-MUTCD.



MATCHLINE STA. 296+00

MATCHLINE STA. 304+00

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<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	<p>ADDENDUMS / REVISIONS</p>	<p>SCALE</p> <p>FEET</p>	<p>SR 1 NORTHBOUND AUXILIARY LANE US 40 TO SR 273</p>	<p>CONTRACT</p> <p>T201511001</p>	<p>BRIDGE NO.</p> <p>1-319N</p>	<p>SIGNING, STRIPING & CONDUIT PLAN</p>	<p>SS-08</p>
				<p>COUNTY</p> <p>NEW CASTLE</p>	<p>DESIGNED BY:</p> <p>SM</p>		<p>CHECKED BY:</p> <p>JCR</p>

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	800 LF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548)	800 LF
(C)	PREFORMED TAPE PAVEMENT MARKINGS, WHITE 10" DOTTED - 3' LINE & 30' GAP (ITEM 748564)	200 LF
(D)	PREFORMED TAPE PAVEMENT MARKINGS, WHITE 10" DOTTED - 3' LINE & 9' GAP (ITEM 748565)	200 LF
(E)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	--
	EPOXY RESIN PAINT PAVEMENT STRIPING, BLACK 3" SOLID (ITEM 748557)	--

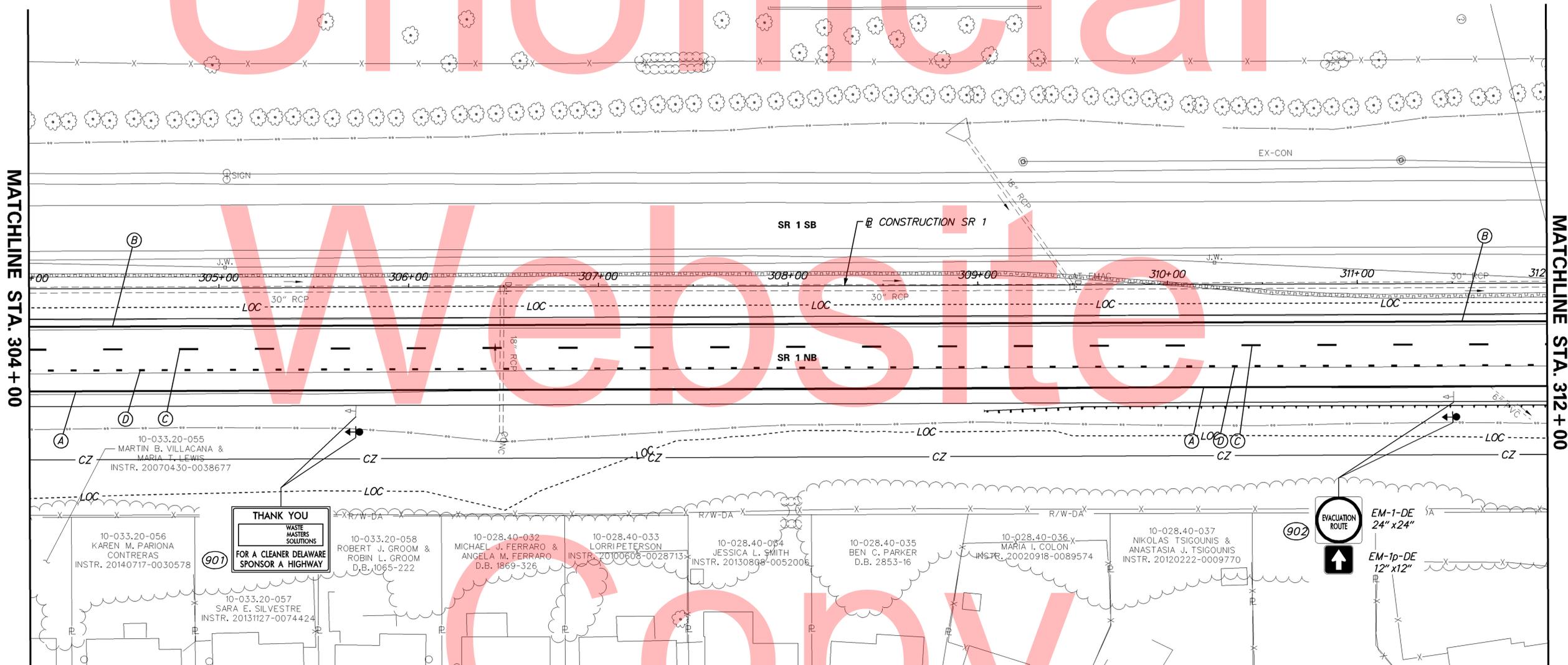
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(F)	PREFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 8" DOTTED - 10' LINE & 30' GAP (ITEM 748566)	--
(G)	PREFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 13" DOTTED - 3' LINE & 9' GAP (ITEM 748567)	--
(H)	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748549)	--
(J)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 12" SOLID (ITEM 748027)	--

NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSTALLATION AND REMOVAL OF ALL PROPOSED, TEMPORARY AND EXISTING MARKINGS AS REQUIRED. ALL PROPOSED MARKINGS SHALL TIE INTO EXISTING MARKINGS IN ACCORDANCE WITH THE MUTCD AND AS DIRECTED BY THE DELDOT'S CONSTRUCTION ENGINEER.
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3. THE CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH THE DE-MUTCD.



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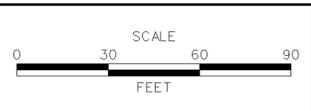


MATCHLINE STA. 304+00

MATCHLINE STA. 312+00

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ADDENDUMS / REVISIONS



**SR 1 NORTHBOUND
AUXILIARY LANE
US 40 TO SR 273**

CONTRACT	BRIDGE NO.	1-319N
T201511001	DESIGNED BY:	SM
COUNTY	CHECKED BY:	JCR
NEW CASTLE		

**SIGNING, STRIPING &
CONDUIT PLAN**

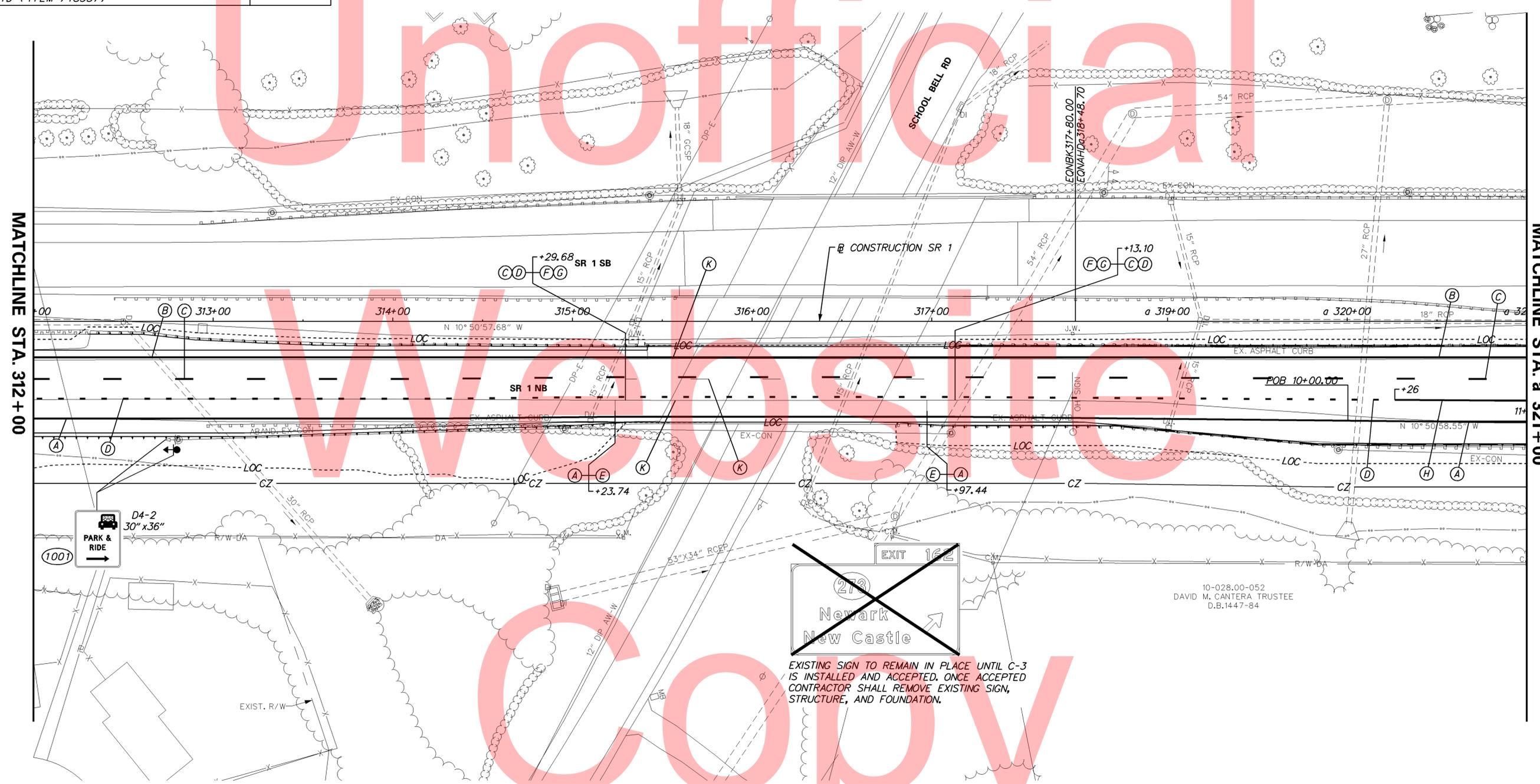
SS-09
SHEET NO.
70
TOTAL SHTS.
77

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	655 LF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548)	830 LF
(C)	PREFORMED TAPE PAVEMENT MARKINGS, WHITE 5" BROKEN - 10' LINE & 30' GAP (ITEM 748564)	165 LF
(D)	PREFORMED TAPE PAVEMENT MARKINGS, WHITE 10" DOTTED - 3' LINE & 9' GAP (ITEM 748565)	145 LF
(E)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	175 LF
(E)	EPOXY RESIN PAINT PAVEMENT STRIPING, BLACK 3" SOLID (ITEM 748557)	175 LF

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(F)	PREFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 8" DOTTED - 10' LINE & 30' GAP (ITEM 748566)	45 LF
(G)	PREFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 13" DOTTED - 3' LINE & 9' GAP (ITEM 748567)	45 LF
(H)	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748549)	75 LF
(J)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 12" SOLID (ITEM 748027)	--
(K)	REMOVAL OF EXISTING PAVEMENT STRIPING (ITEM 748530)	230.1 SF

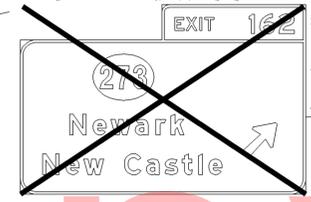
NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSTALLATION AND REMOVAL OF ALL PROPOSED, TEMPORARY AND EXISTING MARKINGS AS REQUIRED. ALL PROPOSED MARKINGS SHALL TIE INTO EXISTING MARKINGS IN ACCORDANCE WITH THE MUTCD AND AS DIRECTED BY THE DELDOT'S CONSTRUCTION ENGINEER.
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- THE CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH THE DE-MUTCD.



MATCHLINE STA. 312+00

MATCHLINE STA. a 321+00

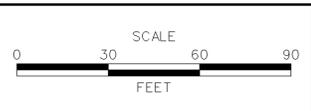


EXISTING SIGN TO REMAIN IN PLACE UNTIL C-3 IS INSTALLED AND ACCEPTED. ONCE ACCEPTED CONTRACTOR SHALL REMOVE EXISTING SIGN, STRUCTURE, AND FOUNDATION.

10-028.00-052
DAVID M. CANTERA TRUSTEE
D.B.1447-84

6/22/2015 5:52:42 PM \\BALSRV02\2015\11009_TYBOUTS\SR1WIDE_NBAUXLANE\CADD\CONTRACT\PLANS\CP_SSC10_NBAUXLN.DGN

ADDENDUMS / REVISIONS



SR 1 NORTHBOUND
AUXILIARY LANE
US 40 TO SR 273

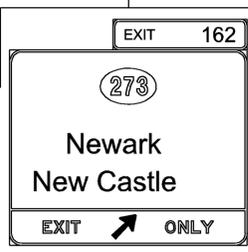
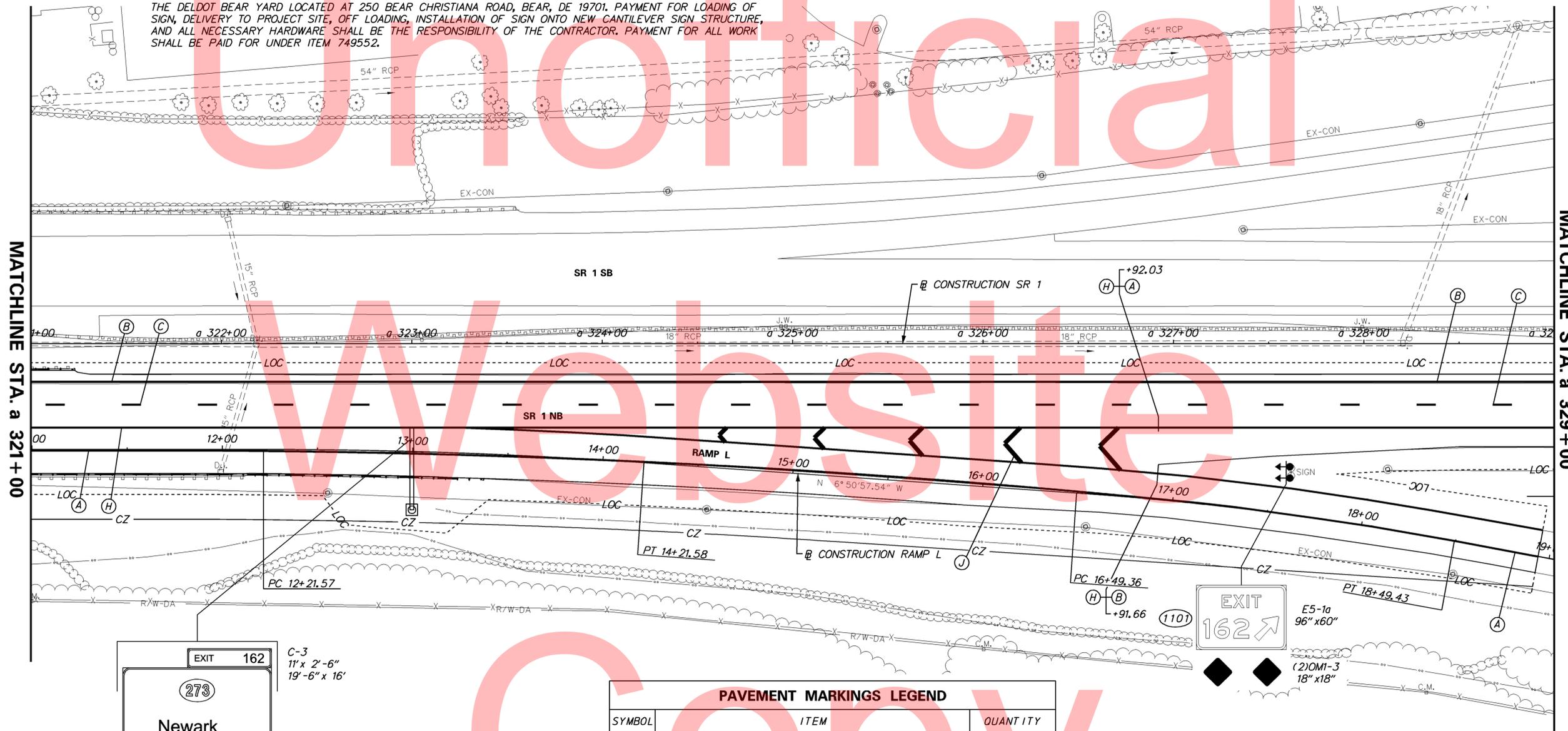
CONTRACT	BRIDGE NO.	1-319N
T201511001	DESIGNED BY:	SM
COUNTY	CHECKED BY:	JCR
NEW CASTLE		

SIGNING, STRIPING &
CONDUIT PLAN

SS-10
SHEET NO.
71
TOTAL SHTS.
77

NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSTALLATION AND REMOVAL OF ALL PROPOSED, TEMPORARY AND EXISTING MARKINGS AS REQUIRED. ALL PROPOSED MARKINGS SHALL TIE INTO EXISTING MARKINGS IN ACCORDANCE WITH THE MUTCD AND AS DIRECTED BY THE DELDOT'S CONSTRUCTION ENGINEER.
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3. THE CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH THE DE-MUTCD.
4. PROPOSED CANTILEVER SIGN C-3 SHALL BE FURNISHED BY DELDOT TRAFFIC. THE CONTRACTOR SHALL CONTACT THE DELDOT SUPERVISOR OF TRAFFIC FIELD OPERATIONS AT 302.222.5903 TO ARRANGE FOR PICK UP OF THE SIGN A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO PICK UP. SIGNS WILL BE AVAILABLE FOR PICK UP AT THE DELDOT BEAR YARD LOCATED AT 250 BEAR CHRISTIANA ROAD, BEAR, DE 19701. PAYMENT FOR LOADING OF SIGN, DELIVERY TO PROJECT SITE, OFF LOADING, INSTALLATION OF SIGN ONTO NEW CANTILEVER SIGN STRUCTURE, AND ALL NECESSARY HARDWARE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PAYMENT FOR ALL WORK SHALL BE PAID FOR UNDER ITEM 749552.



PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	1,005 LF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548)	1,005 LF
(C)	PREFORMED TAPE PAVEMENT MARKINGS, WHITE 5" BROKEN - 10' LINE & 30' GAP (ITEM 748564)	200 LF
(D)	PREFORMED TAPE PAVEMENT MARKINGS, WHITE 10" DOTTED - 3' LINE & 9' GAP (ITEM 748565)	--
(E)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	--
	EPOXY RESIN PAINT PAVEMENT STRIPING, BLACK 3" SOLID (ITEM 748557)	--

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(F)	PREFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 8" DOTTED - 10' LINE & 30' GAP (ITEM 748566)	--
(G)	PREFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 13" DOTTED - 3' LINE & 9' GAP (ITEM 748567)	--
(H)	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748549)	960 LF
(J)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 12" SOLID (ITEM 748027)	105 LF

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PAVEMENT MARKINGS LEGEND

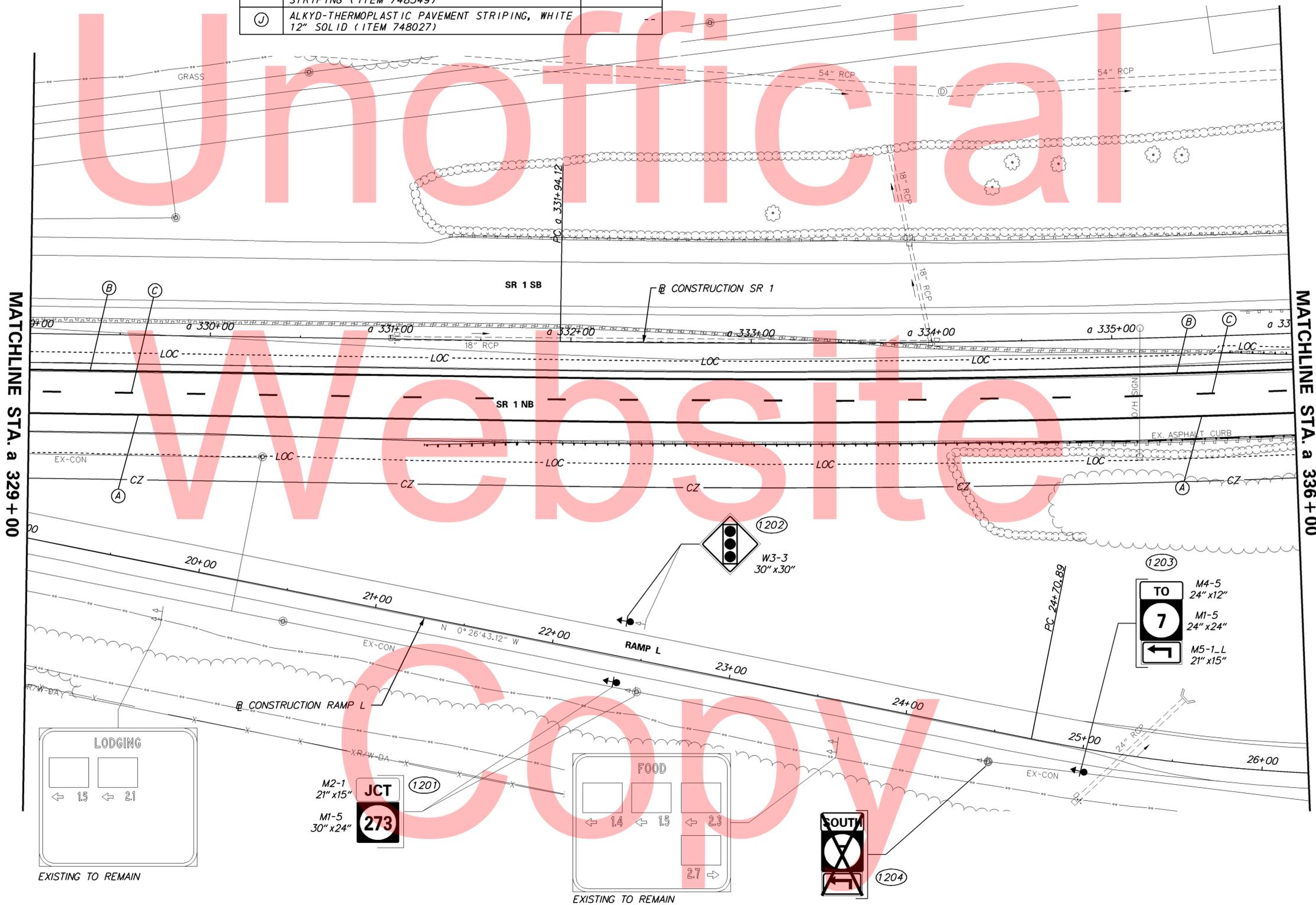
SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	700 LF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548)	700 LF
(C)	PREFORMED TAPE PAVEMENT MARKINGS, WHITE 5" BROKEN - 10' LINE & 30' GAP (ITEM 748564)	175 LF
(D)	PREFORMED TAPE PAVEMENT MARKINGS, WHITE 10" DOTTED - 3' LINE & 9' GAP (ITEM 748565)	--

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM	QUANTITY
(E)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	--
(F)	EPOXY RESIN PAINT PAVEMENT STRIPING, BLACK 3" SOLID (ITEM 748557)	--
(G)	PREFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 8" DOTTED - 10' LINE & 30' GAP (ITEM 748566)	--
(H)	PREFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 13" DOTTED - 3' LINE & 9' GAP (ITEM 748567)	--
(I)	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748549)	--
(J)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 12" SOLID (ITEM 748027)	--

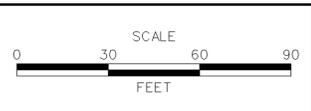
NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSTALLATION AND REMOVAL OF ALL PROPOSED, TEMPORARY AND EXISTING MARKINGS AS REQUIRED. ALL PROPOSED MARKINGS SHALL TIE INTO EXISTING MARKINGS IN ACCORDANCE WITH THE MUTCD AND AS DIRECTED BY THE DELDOT'S CONSTRUCTION ENGINEER.
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3. THE CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH THE DE-MUTCD.



5/27/2015 1:54:45 PM \\BALSRV02\2011\11009_TYBOUTS\SR1WIDE_NBAUXLANE\CADD\CONTRACT\PLANS\CP_SSC12_NBAUXLN.DGN

ADDENDUMS / REVISIONS



**SR 1 NORTHBOUND
AUXILIARY LANE
US 40 TO SR 273**

CONTRACT T201511001	BRIDGE NO. 1-319N
COUNTY NEW CASTLE	DESIGNED BY: SM CHECKED BY: JCR

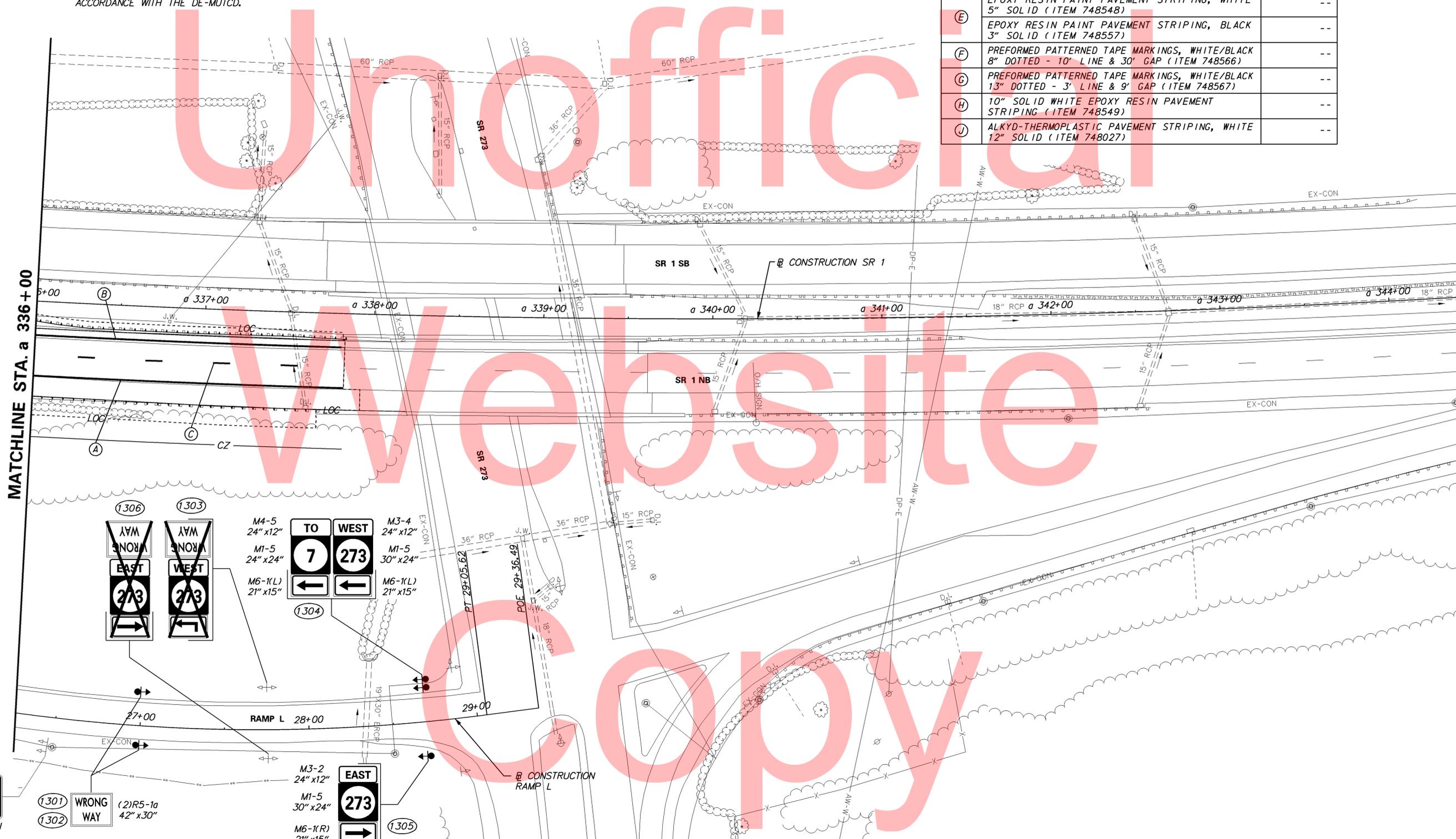
**SIGNING, STRIPING &
CONDUIT PLAN**

SS-12
SHEET NO. 73
TOTAL SHTS. 77

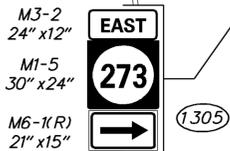
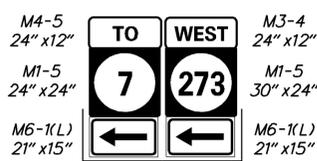
NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSTALLATION AND REMOVAL OF ALL PROPOSED, TEMPORARY AND EXISTING MARKINGS AS REQUIRED. ALL PROPOSED MARKINGS SHALL TIE INTO EXISTING MARKINGS IN ACCORDANCE WITH THE MUTCD AND AS DIRECTED BY THE DELDOT'S CONSTRUCTION ENGINEER.
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3. THE CONTRACTOR SHALL INSTALL RAISED PAVEMENT MARKERS WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH THE DE-MUTCD.

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	190 LF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548)	190 LF
(C)	PERFORMED TAPE PAVEMENT MARKINGS, WHITE 5" BROKEN - 10' LINE & 30' GAP (ITEM 748564)	48 LF
(D)	PERFORMED TAPE PAVEMENT MARKINGS, WHITE 10" DOTTED - 3' LINE & 9' GAP (ITEM 748565)	--
(E)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	--
	EPOXY RESIN PAINT PAVEMENT STRIPING, BLACK 3" SOLID (ITEM 748557)	--
(F)	PERFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 8" DOTTED - 10' LINE & 30' GAP (ITEM 748566)	--
(G)	PERFORMED PATTERNED TAPE MARKINGS, WHITE/BLACK 13" DOTTED - 3' LINE & 9' GAP (ITEM 748567)	--
(H)	10" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748549)	--
(J)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 12" SOLID (ITEM 748027)	--



MATCHLINE STA. a 336+00



ADDENDUMS / REVISIONS



**SR 1 NORTHBOUND
AUXILIARY LANE
US 40 TO SR 273**

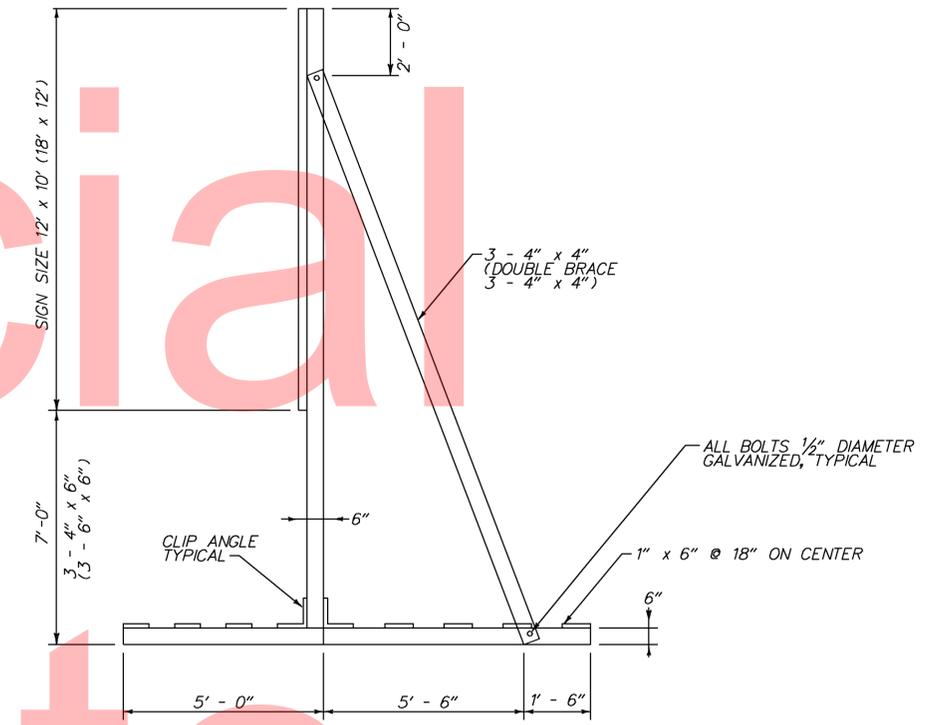
CONTRACT	BRIDGE NO.	1-319N
T201511001	DESIGNED BY:	SM
COUNTY	CHECKED BY:	JCR
NEW CASTLE		

**SIGNING, STRIPING &
CONDUIT PLAN**

SS-13
SHEET NO.
74
TOTAL SHTS.
77

5/22/2015 10:09:09 AM \\BALSRO2\2011\2011\1009_TYBOUTS\SR1WIDE_NBAUXLANE\CADD\CONTRACT\PLANS\CP_SSC14_NBAUXL.N.DGN

PANEL DESIGNATION	SHEET NUMBER	QUANTITY	LEGEND	SIZE			COLOR		BORDER			REMARKS	
				AREA	HEIGHT	WIDTH	LEGEND	BACKGRND	WIDTH	RADIUS	ARROW		SHIELD
C-1	SSC-4	1		398.5 ^B	16'-0"	11'-0"	W	G	2"	6"	-	-	- EXTRUDED ALUMINUM - FOR INFORMATIONAL PURPOSES ONLY
C-2	SSC-7	1		339.5 ^B	13'-0"	11'-0"	W	G	2"	6"	-	-	- EXTRUDED ALUMINUM - FOR INFORMATIONAL PURPOSES ONLY
C-3	SSC-11	1		339.5 ^B	13'-0"	11'-0"	W	G	2"	6"	-	-	- EXTRUDED ALUMINUM - FOR INFORMATIONAL PURPOSES ONLY



- NOTES:**
- "SMALL" SUPPORT FOR SIGNS LESS THAN OR EQUAL TO 120 SF.
"LARGE" SUPPORT FOR SIGNS GREATER THAN 120 SF BUT LESS THAN 216 SF.
 - "LARGE" MODIFICATIONS DENOTED BY ALTERNATIONS IN (PARENTHESES).
 - SAND BAGS ARE TO BE PLACED ON 1" x 6" BEAMS. MIN 15 BAGS. (MAX. 25 BAGS).
 - ALL WORK AND MATERIALS NECESSARY TO FURNISH, INSTALL, RELOCATE AND REMOVE TEMPORARY SKIDS USED FOR TEMPORARY SIGNING WILL NOT BE MEASURED AND PAID FOR BUT WILL BE INCIDENTAL TO ITEM NO. 763500 - MAINTENANCE OF TRAFFIC.

SKID FOR NON-BREAKAWAY SYSTEM TEMPORARY SIGNING

NOTES: 1. COLORS: B=BLACK, BL=BLUE, BR=BROWN, G=GREEN, W=WHITE/SILVER, Y=YELLOW.
2. THE CONTRACTOR WILL FURNISH AND INSTALL ALL SIGNS SHOWN ON THIS SHEET.

Copy

	DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	SR 1 NORTHBOUND AUXILIARY LANE US 40 TO SR 273	CONTRACT T201511001	BRIDGE NO. 1-319N	SHEET NO. 75
					COUNTY NEW CASTLE	DESIGNED BY: SM CHECKED BY: JCR	

SS-14
SHEET NO.
75
TOTAL SHTS.
77

SIGN SCHEDULE

#	SHEET NO.	PLAN INDICATOR	CODE	QTY.	DESCRIPTION	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	SIGN AREA (SF)	ITEM 749687 SINGLE POST (EACH)			ITEM 749690 MULTI POST (POST NEEDED)			POST INSTALLATION TYPE	Code X11 12' Post (W/ Basepost)	ITEM 749688 4" HOLE, 0-6" (EACH)	ITEM 749689 4" HOLE, >6" (EACH)	REMARKS
									SIGN DISPOSITION	REMOVE	INSTALL	SIGN DISPOSITION	REMOVE	INSTALL					
8	SS-01	101	R1-2(36)	1	YIELD	36"	36"		REMOVE	1									
917	SS-01	102	W4-3_R(48)	1	ADDED LANE (Right) - 48x48	48"	48"	16	NEW			NEW		16	SOIL	2			
1509	SS-02	201	M3-1(36)	1	CARDINAL DIRECTION - NORTH - 36x18	36"	18"	4.5	RENEW			RENEW	18.5	18.5	SOIL	2			1
1490			M1-5(36)	1	STATE ROUTE (2 - Digit Sign) - 36x36	36"	36"	9											
1924			EM-1-DE	1	EVACUATION ROUTE	24"	24"	4											
			EM-1p-DE	1	ARROW (PLATE)	12"	12"	1											
68	SS-03	301	R2-1-55(48)	1	SPEED LIMIT (55 MPH - 48x60)	48"	60"	20				RENEW	20	20	SOIL	2			
68	SS-03	302	R2-1-55(48)	1	SPEED LIMIT (55 MPH - 48x60)	48"	60"	20				RENEW	20	20	SOIL	2			
	SS-09	901		1	SPECIAL SIGN							REPOSITION	20	20	SOIL	2			
1924	SS-09	902	EM-1-DE	1	EVACUATION ROUTE	24"	24"	4	RENEW	1	1				SOIL	1			
			EM-1p-DE	1	ARROW (PLATE)	12"	12"	1											
1691	SS-10	1001	D4-2(30)	1	PARK & RIDE - 30x36	30"	36"	7.5	RENEW	1	1				SOIL	1			
1883	SS-11	1101	E5-1a(96)	1	EXIT GORE (3-Digit Exit Number)	96"	60"	40	RENEW			RENEW	44.5	44.5	SOIL	2			
1955			OM1-3	1	TYPE 1 OBJECT MARKER	18"	18"	2.25											
1955			OM1-3	1	TYPE 1 OBJECT MARKER	18"	18"	2.25											
1504	SS-12	1201	M2-1(21)	1	JUNCTION - 21x15	21"	15"	2.2	RENEW	1	1				SOIL	1			273
1489			M1-5(30)	1	STATE ROUTE (3 - Digit Sign) - 30x24	30"	24"	5											
877	SS-12	1202	W3-3(30)	1	SIGNAL AHEAD (Symbol) - 30x30	30"	30"	6.25	RENEW	1	1				SOIL	1			
1534	SS-12	1203	M4-5(24)	1	TO - 24x12	24"	12"	2	NEW		1				SOIL	1			7
1488			M1-5(24)	1	STATE ROUTE (2 - Digit Sign) - 24x24	24"	24"	4											
1589			M5-1_L	1	ADVANCE TURN ARROW (Left - 90)	21"	15"	2.2											
1514	SS-12	1204	M3-3(24)	1	CARDINAL DIRECTION - SOUTH - 24x12	24"	12"	2	REMOVE	1	1								
1488			M1-5(24)	1	STATE ROUTE (2 - Digit Sign) - 24x24	24"	24"	4											
1589			M5-1_L	1	ADVANCE TURN ARROW (Left - 90)	21"	15"	2.2											
363	SS-13	1301	R5-1a(42)	1	WRONG WAY - 42x30	42"	30"	8.75	NEW		1				SOIL	1			
363	SS-13	1302	R5-1a(42)	1	WRONG WAY - 42x30	42"	30"	8.75	NEW		1				SOIL	1			
363	SS-13	1303	R5-1a(42)	1	WRONG WAY - 42x30	42"	30"	8.75	REMOVE	1									
1489			M1-5(30)	1	STATE ROUTE (3 - Digit Sign) - 30x24	30"	24"	5											
1517			M3-4(24)	1	CARDINAL DIRECTION - WEST - 24x12	24"	12"	2											
1604			M6-1_R(21)	1	DIRECTIONAL ARROW (Right) - 21x15	21"	15"	2.2											
1534	SS-13	1304	M4-5(24)	1	TO - 24x12	24"	12"	2	NEW		1		17.4		SOIL	3			7, 273
1488			M1-5(24)	1	STATE ROUTE (2 - Digit Sign) - 24x24	24"	24"	4											
1605			M6-1_L(21)	1	DIRECTIONAL ARROW (Left) - 21x15	21"	15"	2.2											
1517			M3-4(24)	1	CARDINAL DIRECTION - WEST - 24x12	24"	12"	2											
1489			M1-5(30)	1	STATE ROUTE (3 - Digit Sign) - 30x24	30"	24"	5											
1605			M6-1_L(21)	1	DIRECTIONAL ARROW (Left) - 21x15	21"	15"	2.2											
1511	SS-13	1305	M3-2(24)	1	CARDINAL DIRECTION - EAST - 24x12	24"	12"	2	NEW		1		9.2		SOIL	2			273
1489			M1-5(30)	1	STATE ROUTE (3 - Digit Sign) - 30x24	30"	24"	5											
1604			M6-1_R(21)	1	DIRECTIONAL ARROW (Right) - 21x15	21"	15"	2.2											
363	SS-13	1306	R5-1a(42)	1	WRONG WAY - 42x30	42"	30"	8.75	REMOVE	1									
1489	M1-5(30)		1	STATE ROUTE (3 - Digit Sign) - 30x24	30"	24"	5												
1589	M5-1_L		1	ADVANCE TURN ARROW (Left - 90)	21"	15"	2.2												
1511	M3-2(24)		1	CARDINAL DIRECTION - EAST - 24x12	24"	12"	2												
PAGE TOTALS										17	11		123	165.6		24	0	0	

PAGE TOTALS

197.25

17

11

123

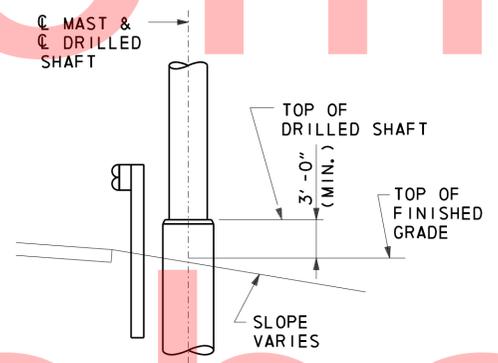
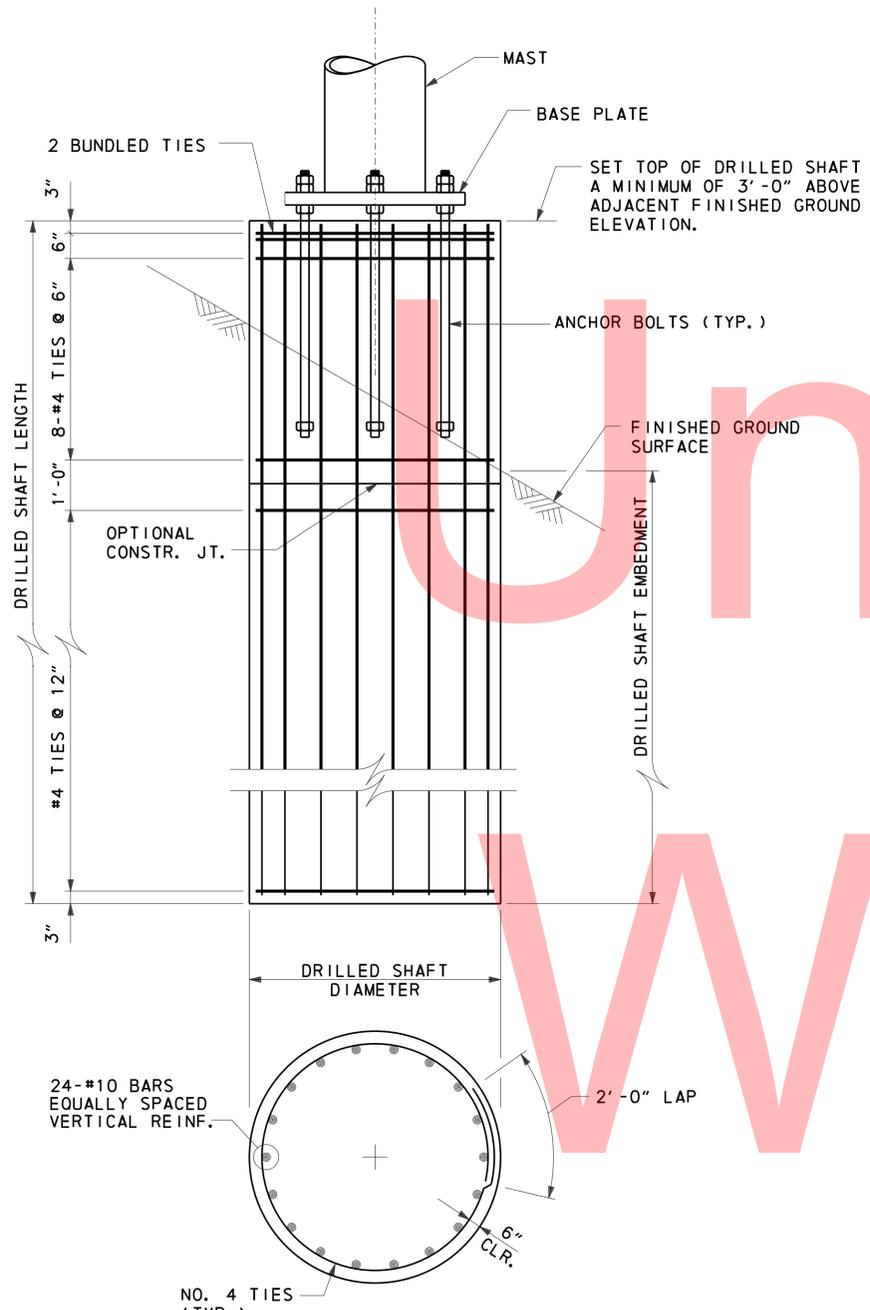
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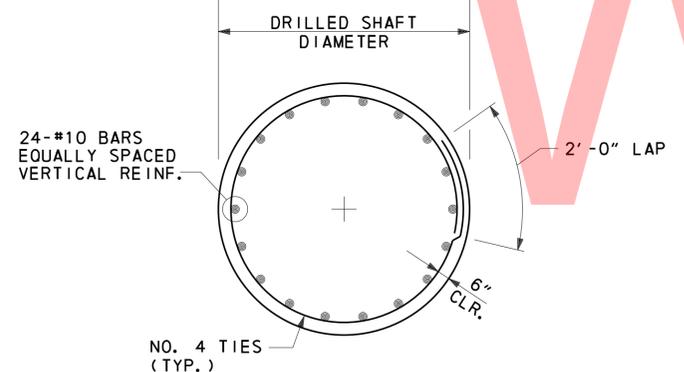
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SIGN STRUCTURE FOUNDATIONS			
SIGN STRUCTURE NUMBER	DRILLED SHAFT DIAMETER (FT)	DRILLED SHAFT LENGTH (FT)	DRILLED SHAFT EMBEDMENT (FT)
SC-1	5.5	25'-0"	19'-3"
SC-2	5.5	25'-0"	19'-3"
SC-3	5.5	25'-0"	21'-0"



TYPICAL SHOULDER DETAIL



DRILLED SHAFT FOUNDATION DETAILS
ROADSIDE INSTALLATION

REINFORCING BAR LIST										BENDING DIAGRAMS
MARK	LENGTH	NO. BARS	TYPE	A	B	C	D	G	O	
F401	16' -2"	96	T3					2' -0"	4' -6"	
F1001	24' -8"	72	STR.							

NOTE: ALL DIMENSIONS ARE FROM OUT TO OUT.

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ADDENDUMS / REVISIONS

NOT TO SCALE

SR 1 NORTHBOUND
AUXILIARY LANE
US 40 TO SR 273

CONTRACT T201511001	BRIDGE NO. 1-319N
COUNTY NEW CASTLE	DESIGNED BY: D. W. HITCHKO
	CHECKED BY: R. F. KIRCHNER

SIGN STRUCTURE
FOUNDATION DETAILS



SHEET NO. 77
TOTAL SHTS. 77

GENERAL NOTES

DESIGN SPECIFICATIONS:

- AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS", 2013, 6TH EDITION, INCLUDING 2015 INTERIMS.
- AASHTO/AWS D1.5 BRIDGE WELDING CODE.

DESIGN LOADS:

- THE DESIGN WIND SPEED IS 90 MPH (3-SECOND GUST WIND SPEED), BASED ON A 50-YEAR MEAN RECURRENCE INTERVAL.
- THE DESIGN ICE LOAD IS 3 PSF.
- FATIGUE DESIGN FOR CANTILEVER SIGN STRUCTURES IS BASED ON FATIGUE CATEGORY I FOR GALLOPING, NATURAL WINDS GUSTS, AND TRUCK INDUCED GUSTS.
- DESIGN SIGN AREA FOR CANTILEVER SIGN STRUCTURE SHALL BE APPROXIMATELY 25% MORE AREA THAN ACTUAL SIGN AREA (ADJUSTED IN SIGN HEIGHT ONLY).

MATERIALS:

- ALL STRUCTURAL TUBES FOR MASTS AND MAST ARMS SHALL CONFORM TO API 5L GRADE B PSL-2.
- ALL STEEL PLATES AND SHAPES SHALL CONFORM TO AASHTO M270, GRADE 36 OR BETTER. ALL STEEL MEMBERS GREATER THAN OR EQUAL TO ONE HALF (1/2) INCH SHALL MEET THE CHARPY V-NOTCH REQUIREMENTS FOR ZONE 2, NON-FRACTURE CRITICAL.
- THE STRUCTURE SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M111.
- ALL CONNECTION BOLTS FOR SPLICE PLATES SHALL CONFORM TO AASHTO M164. WASHERS SHALL CONFORM TO AASHTO M293, AND NUTS SHALL CONFORM TO AASHTO M291, GRADE DH, OR AASHTO M292, GRADE 2H. U-BOLTS SHALL CONFORM TO ASTM A449.
- ANCHOR BOLTS SHALL CONFORM TO AASHTO M314, GRADE 55. ANCHOR NUTS SHALL CONFORM TO AASHTO M291, GRADE DH, OR AASHTO M292, GRADE 2H. WASHERS SHALL CONFORM TO AASHTO M293.
- ALL HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M232.
- PORTLAND CEMENT CONCRETE FOR PEDESTALS AND FOUNDATIONS SHALL BE DELDOT CLASS B ($f'c = 3,000$ PSI).
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.
- REINFORCING STEEL SHALL CONFORM TO AASHTO M31, GRADE 60. ALL REINFORCING STEEL SHALL BE PROTECTED WITH FUSION BONDED EPOXY. EPOXY COATED REINFORCING STEEL SHALL CONFORM TO M284 (ASTM D3963).
- ALL REINFORCING STEEL SHALL HAVE A CLEAR COVER OF 2" UNLESS OTHERWISE NOTED.

GENERAL:

- ANY ALTERNATE DESIGNS SHALL BE STRUCTURALLY EQUIVALENT AND SUBJECT TO APPROVAL BY THE ENGINEER. AESTHETICS MAY BE A REASON FOR REJECTION OF AN ALTERNATE DESIGN.
- FORM MASTS FOR SIGN STRUCTURES TO THE RADII SHOWN ON THE PLANS IN ACCORDANCE WITH THE TUBE AND PIPE ASSOCIATION INTERNATIONAL RECOMMENDED STANDARDS FOR INDUCTION BENDING OF PIPE AND TUBE (TPA-IBS-98).
- STEEL TEMPLATES SHALL BE USED TO SET ANCHOR BOLTS PLUMB WHEN POURING THE FOUNDATION.
- BASE PLATES SHALL BE IN FULL CONTACT WITH ALL FLAT WASHERS.
- ALL ANCHOR BOLTS SHALL BE TIGHTENED USING TURN OF NUT METHOD (1/6 TURN AFTER SNUG TIGHT).
- THREADS OF ANCHOR BOLTS SHALL BE BURRED OFF AT FACE OF NUT AFTER COLUMN IS INSTALLED.
- LOCK WASHERS WITH FLAT WASHERS SHALL ONLY BE USED FOR U-BOLT CONNECTIONS AND NUT SHALL BE TURNED UNTIL THE LOCK WASHER IS FLAT.
- MAST AND MAST ARM O.D. DIMENSIONS ARE ACTUAL.
- FIELD VERIFY ALL DIMENSIONS BEFORE ORDERING ANY MATERIALS.
- FABRICATE ALL SIGN STRUCTURES INTO THE LARGEST PRACTICAL SECTIONS PRIOR TO GALVANIZING. SUBMIT SPLICE LOCATIONS TO THE ENGINEER FOR APPROVAL. DO NOT COMMENCE FABRICATION UNTIL SUCH SPLICE LOCATIONS ARE APPROVED.
- DO NOT USE GROUT BETWEEN BASE PLATE AND CONCRETE PEDESTAL.
- SLOPE TOP OF PEDESTAL 4% FROM CENTER TO NEAR EDGES FOR DRAINAGE.
- PROVIDE DOUBLE NUTS AND WASHERS FOR EACH ANCHOR BOLT.
- PERMANENT CAMBER EQUAL TO L/1000 HAS BEEN PROVIDED IN ADDITION TO THE DEAD LOAD CAMBER.

FABRICATOR NOTE:

FABRICATOR IS TO SUPPLY AND DELIVER THE SIGN STRUCTURES AND ANCHOR BOLTS TO THE JOB SITE (SEE MAP ON TITLE SHEET) WHICH IS IN ZIP CODE 19701. THE FABRICATOR SHALL COORDINATE WITH THE CONTRACTOR OF CONTRACT T201611001 (ONCE CHOSEN BY THE DEPARTMENT) FOR DELIVERY. THE FABRICATOR SHOULD ANTICIPATE THAT EACH SIGN STRUCTURES WILL BE DELIVERED SEPARATELY. THE FABRICATOR MUST BE PREPARED TO DELIVER THE SIGN STRUCTURES TO THE SITE BY OCTOBER 15, 2015 AND THE ANCHOR BOLTS BY SEPTEMBER 15, 2015. THE EXACT DATE FOR DELIVERY OF EACH SIGN STRUCTURE AND THE ANCHOR BOLTS SHALL BE COORDIANATED WITH THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OFFLOADING THE SIGN STRUCTURES FROM THE TRUCKS AT THE SITE. PAYMENT FOR DELIVERY AND COORDINATION SHALL BE INCLUDED IN ITEM 605500. SIGN STRUCTURES SHALL BE FABRICATED IN ACCORDANCE WITH ITEM 605500 (ATTACHED). IF THE FABRICATOR CAN NOT MEET THE DATES SHOWN ABOVE THEN HE/SHE SHALL PROVIDE THE EARLIEST DATE IN WHICH HE/SHE CAN PROVIDE THE SIGN STRUCTURES AND ANCHOR BOLTS. THE DEPARTMENT WILL EVALUATE ALL BIDS BASED ON BID PRICE AND TIME OF DELIVERY.

SIGN STRUCTURE LOCATION

SIGN STRUCTURE NUMBER	STRUCTURE TYPE	BASELINE	STATION	SUPPORT OFFSET
SC-1	CANTILEVER	SR-1	269+00.00	71' -6"
SC-2	CANTILEVER	SR-1	295+50.00	71' -6"
SC-3	CANTILEVER	SR-1	323+00.00	78' -9"

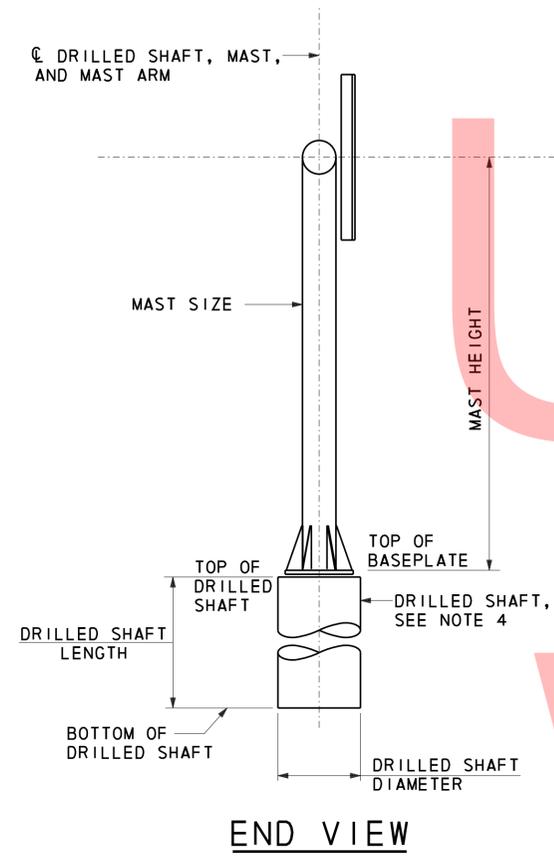
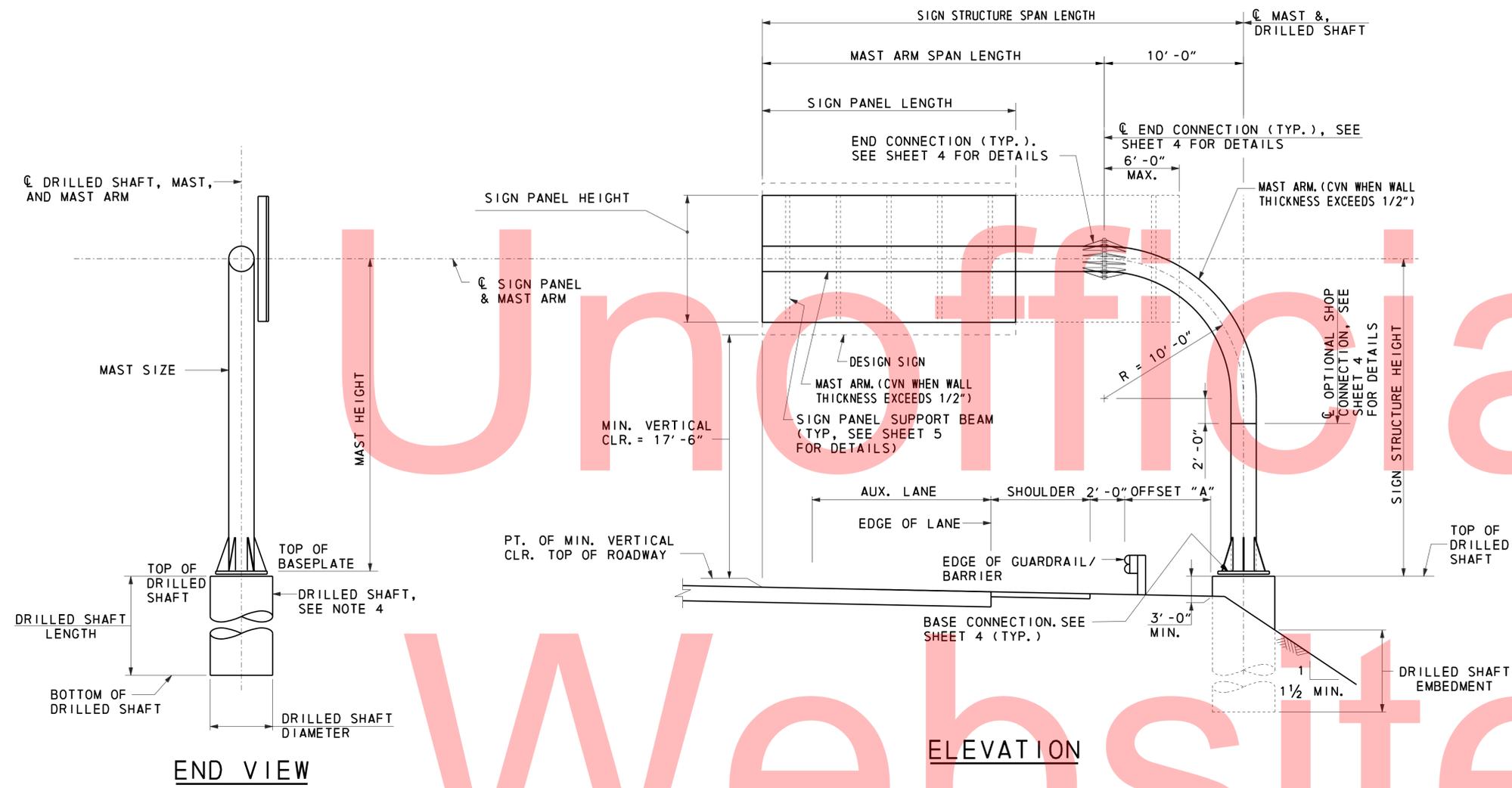
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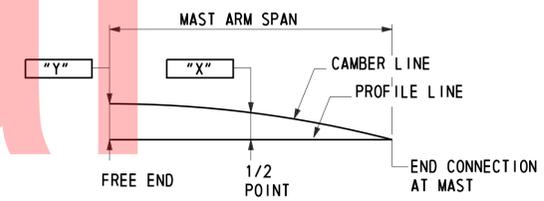


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	ADDENDUMS / REVISIONS	NOT TO SCALE	CANTILEVER SIGN STRUCTURE MATERIALS, SR1 NORTHBOUND AUXILIARY	CONTRACT	BRIDGE NO.	1-319N	SIGN STRUCTURES GENERAL NOTES	SHEET NO.
					T201611001	DESIGNED BY:		D. W. HITCHKO
				COUNTY	CHECKED BY:	R. F. KIRCHNER		TOTAL SHTS.
				NEW CASTLE				5



- GENERAL NOTES:**
1. TERMINATE WELDS ONE HALF (1/2) INCH SHORT OF STIFFENER ENDS AND STIFFENER CHAMFER.
 2. SEAL GAP BETWEEN BASE PLATE AND CONCRETE DRILLED SHAFT WITH GALVANIZED SCREEN, 1 1/4" TO 3/8" OPENING, TO PREVENT ENTRY OF RODENTS. SCREEN IS TO BE REMOVABLE AND ATTACHED TO BASE PLATE WITH STAINLESS STEEL HARDWARE. SCREEN IS TO BE OF SUFFICIENT STIFFNESS TO PREVENT ENTRY BETWEEN SCREEN AND FOUNDATION WHILE PERMITTING DRAINAGE.
 3. SIGN PANEL SHALL BE CENTERED OVER AUXILIARY LANE.
 4. DRILLED SHAFT DETAILS ARE NOT INCLUDED IN THIS CONTRACT.



CAMBER DIAGRAM

MAXIMUM CAMBER (AT FREE END) REPRESENTS MAXIMUM DEAD LOAD CAMBER PLUS L/1000 WHERE L = SIGN STRUCTURE SPAN.

CAMBER			
SIGN STRUCTURE NUMBER	SPAN	"X" (IN.)	"Y" (IN.)
SC-1	22'-9"	1 1/4	2
SC-2	22'-9"	1 1/8	1 7/8
SC-3	28'-1"	1 1/2	2 3/4

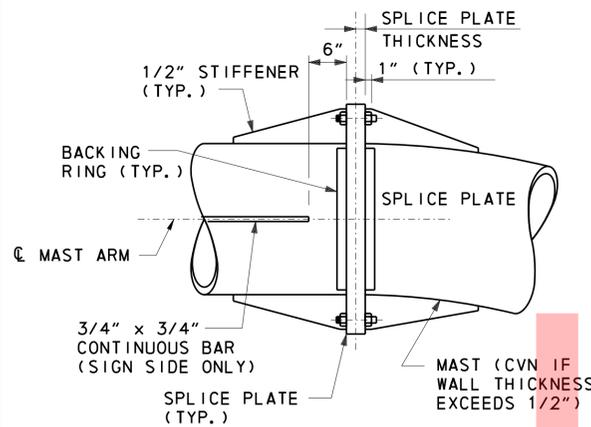
CANTILEVER SIGN SUPPORT STRUCTURE CHART

SIGN STRUCTURE NO.	SIGN STRUCTURE SPAN LENGTH	DESIGN PANEL AREA (SF)	MAST AND MAST ARM				ANCHOR BOLTS			BASE PLATE			H. S. (SPLICE) BOLTS			SPLICE PLATE		
			MAST ARM SPAN LENGTH	SIGN STRUCTURE HEIGHT	DIAMETER (INCHES)	THICKNESS (INCHES)	NO. OF BOLTS	DIAMETER (INCHES)	BOLT CIRCLE (INCHES)	DIAMETER (INCHES)	THICKNESS (INCHES)	NO. OF STIFFENERS	NO. OF BOLTS	DIAMETER (INCHES)	BOLT CIRCLE (INCHES)	DIAMETER (INCHES)	THICKNESS (INCHES)	NO. OF STIFFENERS
SC-1	32'-9"	498	22'-9"	28'-4"	34	0.500	16	2.00	41	48	3	8	24	1.25	40	46	3	8
SC-2	32'-9"	425	22'-9"	26'-5"	34	0.500	16	2.00	41	48	3	8	24	1.25	40	46	3	8
SC-3	38'-1"	425	28'-1"	26'-9 1/2"	34	0.500	16	2.25	41	48	3	8	24	1.50	40	46	3	8

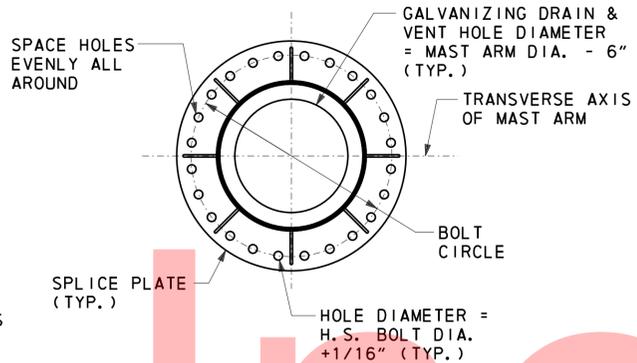
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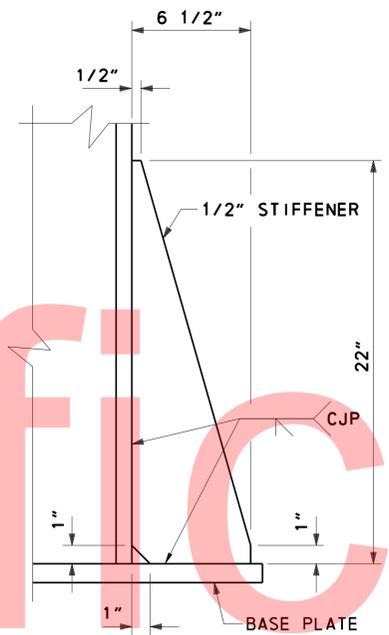
ELEVATION



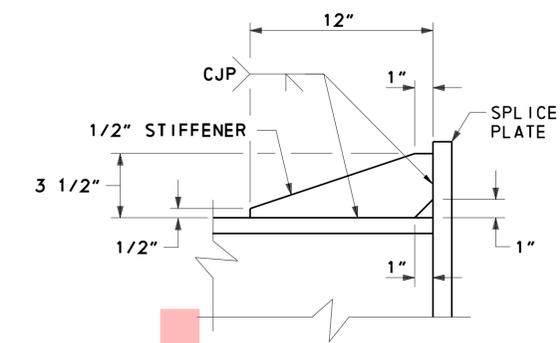
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**CANTILEVER STRUCTURE
END CONNECTION DETAILS**

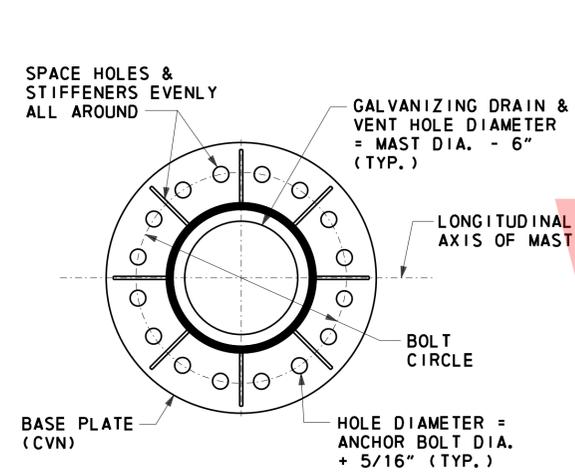
(MAST ARM SPLICE CONNECTION SIMILAR)
(24 BOLT CONFIGURATION SHOWN, OTHER CONFIGURATIONS SIMILAR)



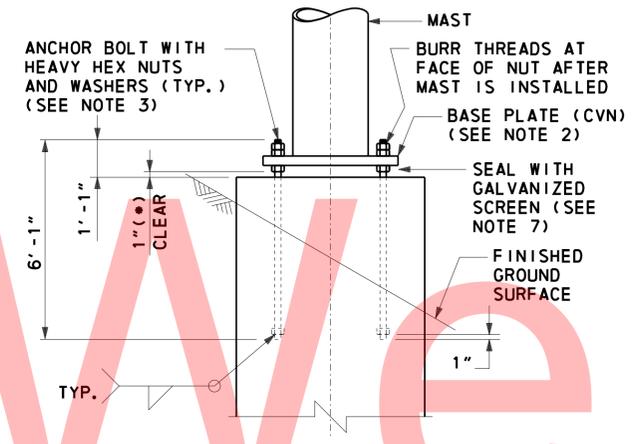
BASE PLATE STIFFENER DETAIL



SPLICE PLATE STIFFENER DETAIL



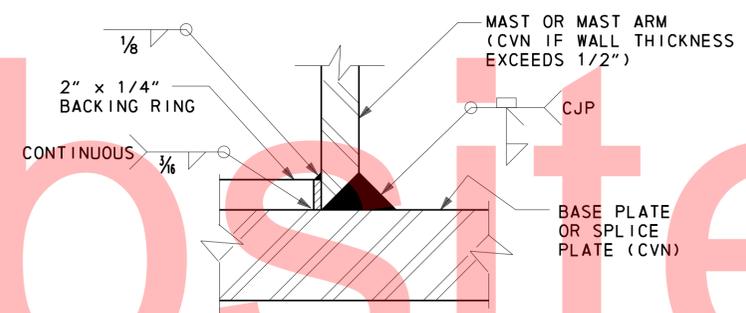
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NOTE: STIFFENERS NOT SHOWN FOR CLARITY
ELEVATION

**CANTILEVER STRUCTURE
BASE CONNECTION DETAILS**

(16 BOLT CONFIGURATION SHOWN, OTHER CONFIGURATIONS SIMILAR)



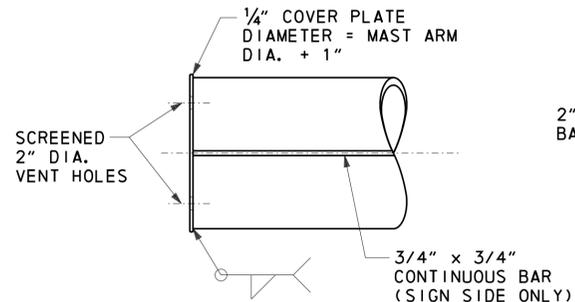
WELD DETAIL

WELD DETAIL NOTE:

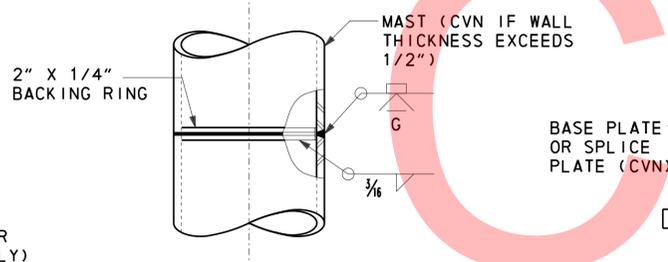
BACKING RING MUST BE FITTED/SIZED TO THE PIPE COLUMN AND CONTINUOUSLY FILLET WELDED TO THE BASE PLATE BEFORE THE FULL PENETRATION GROOVE WELD IS MADE. BACKING RING MUST BE FABRICATED AS A CONTINUOUS RING.

NOTES:

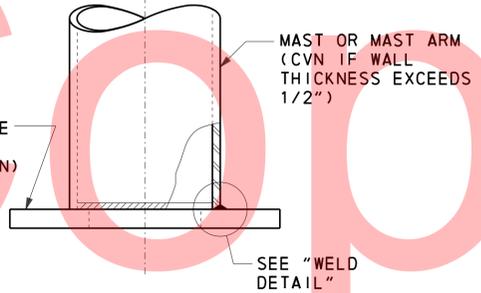
- FOR GENERAL NOTES, SEE SHEET 2.
- DO NOT GROUT BETWEEN BASE PLATE AND CONCRETE DRILLED SHAFT.
- TIGHTEN ANCHOR BOLTS USING TURN-OF-NUT METHOD (ADDITIONAL 1/6 TURN AFTER SNUG TIGHT) ONCE SIGN PANEL IS LEVELED.
- TERMINATE WELDS 1/2" SHORT OF STIFFENER ENDS AND STIFFENER CHAMFER.
- PROVIDE STIFFENERS AS INDICATED IN TABLES.
- FOR SIGN PANEL SUPPORT BEAM DETAILS, SEE SHEET 5.
- SEAL WITH GALVANIZED SCREEN, 1 1/4" TO 3/8" OPENING, TO PREVENT ENTRY OF RODENTS. SCREEN IS TO BE REMOVABLE AND ATTACHED TO BASE PLATE WITH STAINLESS STEEL HARDWARE. SCREEN IS TO BE OF SUFFICIENT STIFFNESS TO PREVENT ENTRY BETWEEN SCREEN AND FOUNDATION WHILE PERMITTING DRAINAGE.



MAST ARM END DETAIL
(CANTILEVER STRUCTURES)



OPTIONAL SHOP CONNECTION DETAIL



PIPE TO PLATE CONNECTION DETAIL

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ADDENDUMS / REVISIONS	

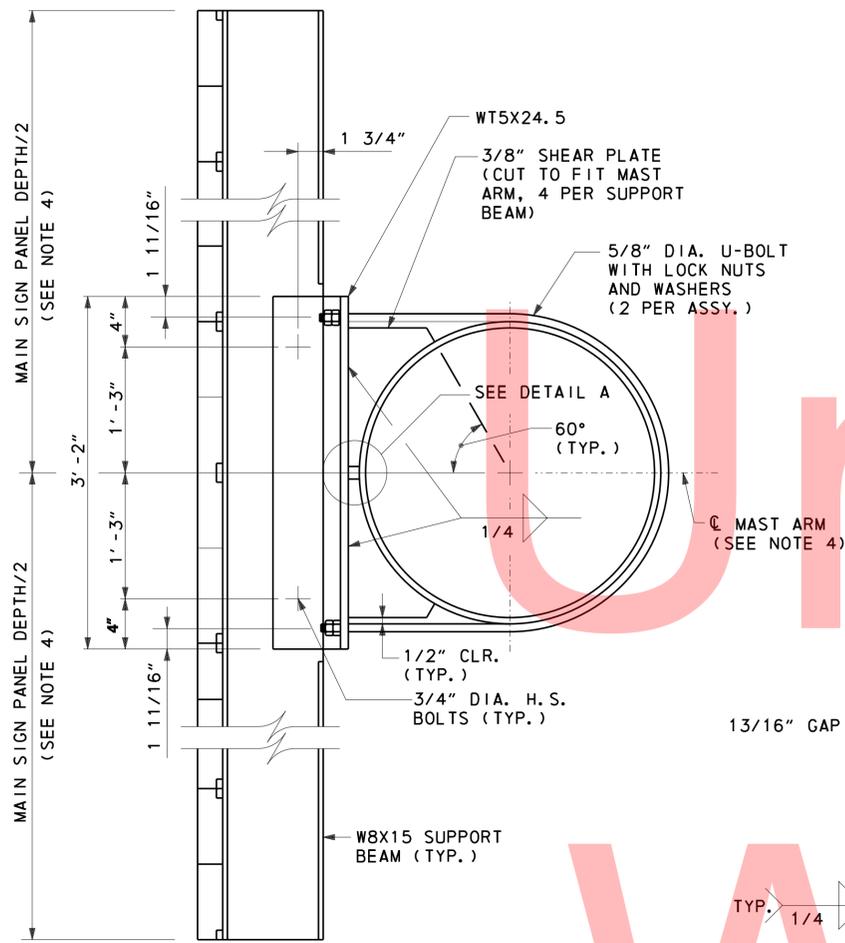
NOT TO SCALE

CANTILEVER SIGN STRUCTURE MATERIALS, SR1 NORTHBOUND AUXILIARY

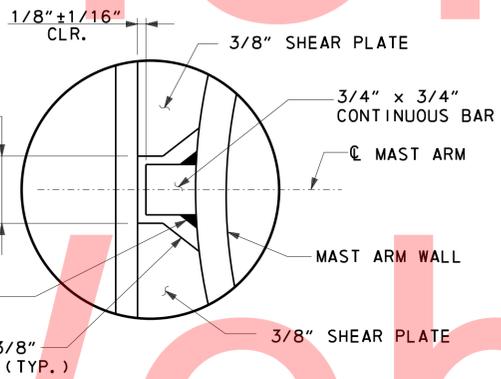
CONTRACT	BRIDGE NO.	1-319N
T201611001	DESIGNED BY:	D. W. HITCHKO
COUNTY	CHECKED BY:	R. F. KIRCHNER
NEW CASTLE		

CANTILEVER SIGN STRUCTURE DETAILS - 1

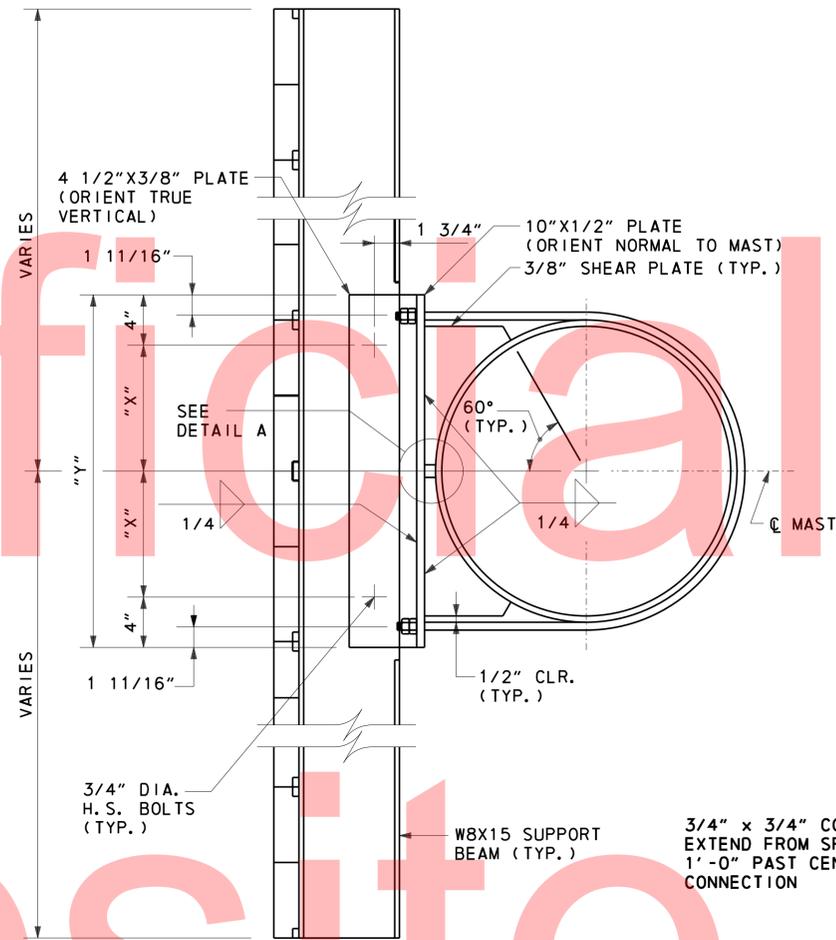
SHEET NO.	4
TOTAL SHTS.	5



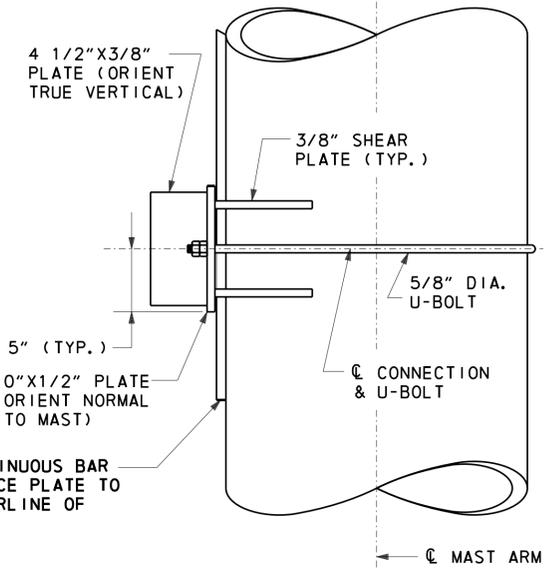
SINGLE SIGN PANEL SECTION



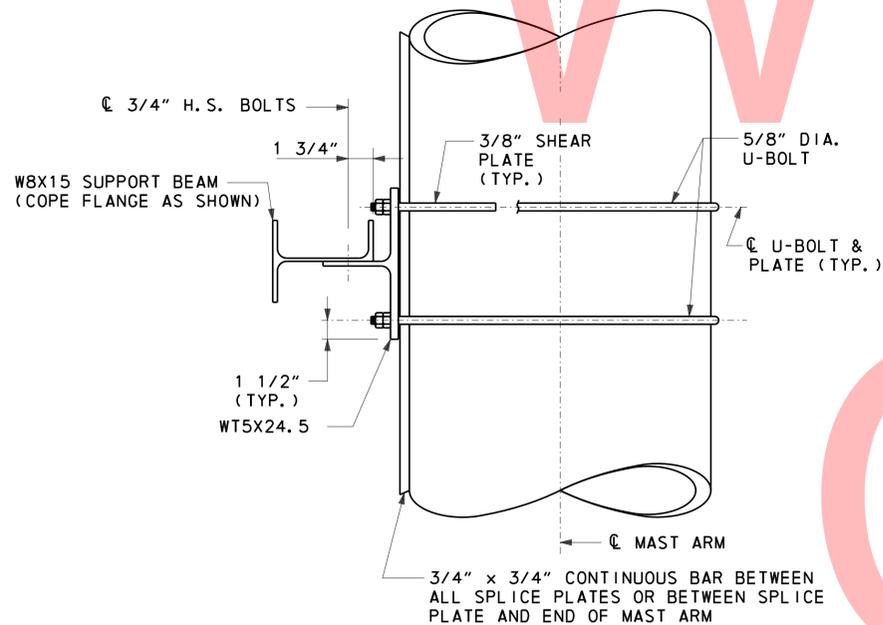
DETAIL A



SINGLE SIGN PANEL SECTION



SINGLE SIGN PANEL PLAN



SINGLE SIGN PANEL PLAN

SUPPORT BEAM TO MAST ARM CONNECTION DETAILS

SUPPORT BEAM TO MAST CONNECTION DETAILS
(FOR DETAILS NOT SHOWN OR NOTED, SEE SUPPORT BEAM TO MAST ARM CONNECTION DETAILS)
(SUPPORT BEAM NOT SHOWN IN PLAN AND ELEVATION VIEWS FOR CLARITY)

NOTES:

1. FOR DETAILS NOT SHOWN OR NOTED, SEE SINGLE SIGN PANEL DETAILS, THIS SHEET.
2. FOR SIGN PANEL DETAILS, SEE SIGN DETAIL SHEETS.
3. LOCATE SUPPORT BEAMS TO AVOID END AND SPLICE CONNECTIONS. MAXIMUM SPACING = 5'-0". MAXIMUM DISTANCE TO PANEL EDGE = 2'-6".
4. SIGN PANEL SUPPORT BEAM DETAILS GIVEN ON THIS SHEET ARE ONLY VALID FOR SIGNS WHERE THE HORIZONTAL CENTERLINE OF THE SIGN PANEL IS AT THE SAME LOCATION AS THE CENTERLINE OF MAST ARM.

FOR INFORMATION ONLY

