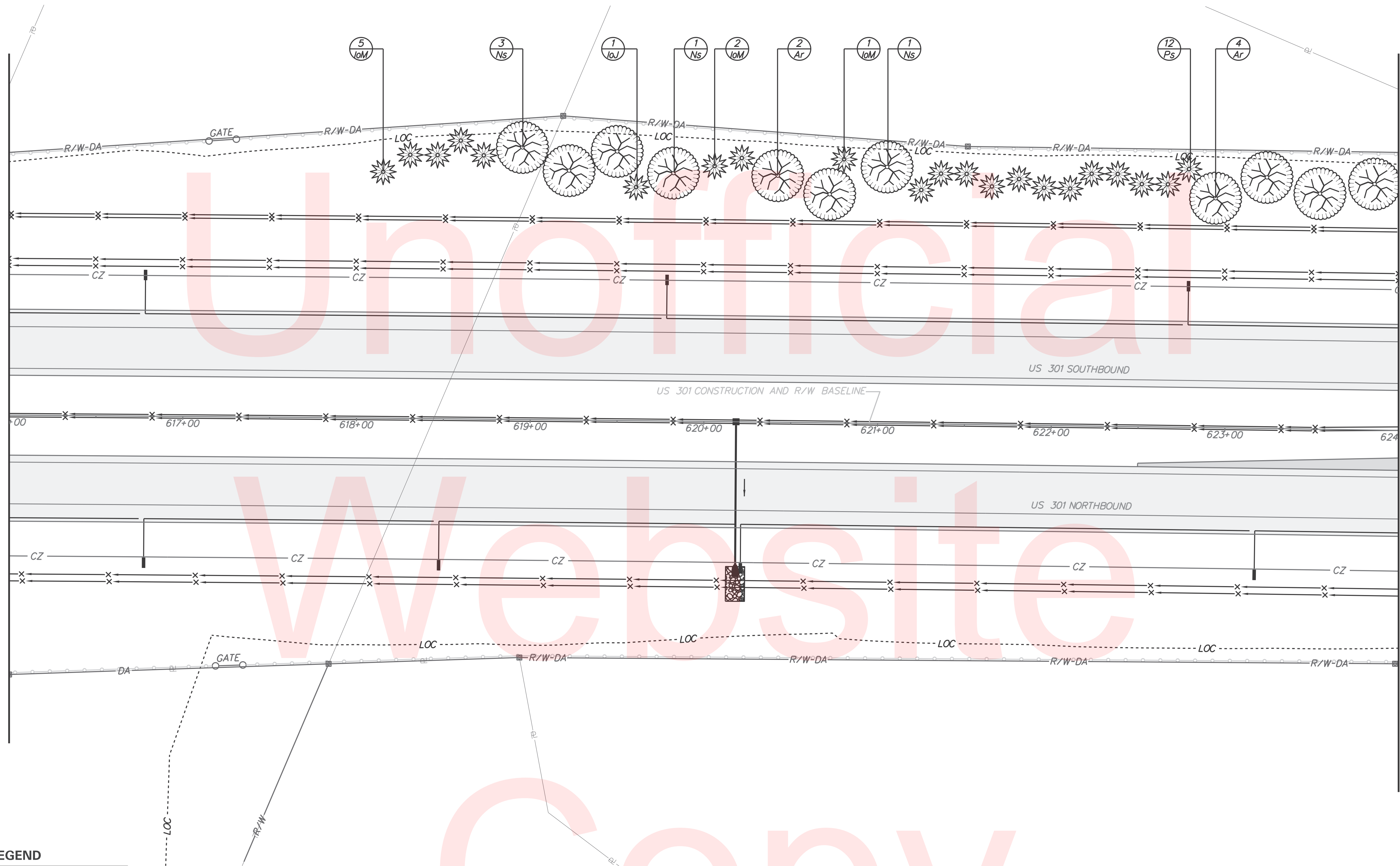




LANDSCAPE LEGEND

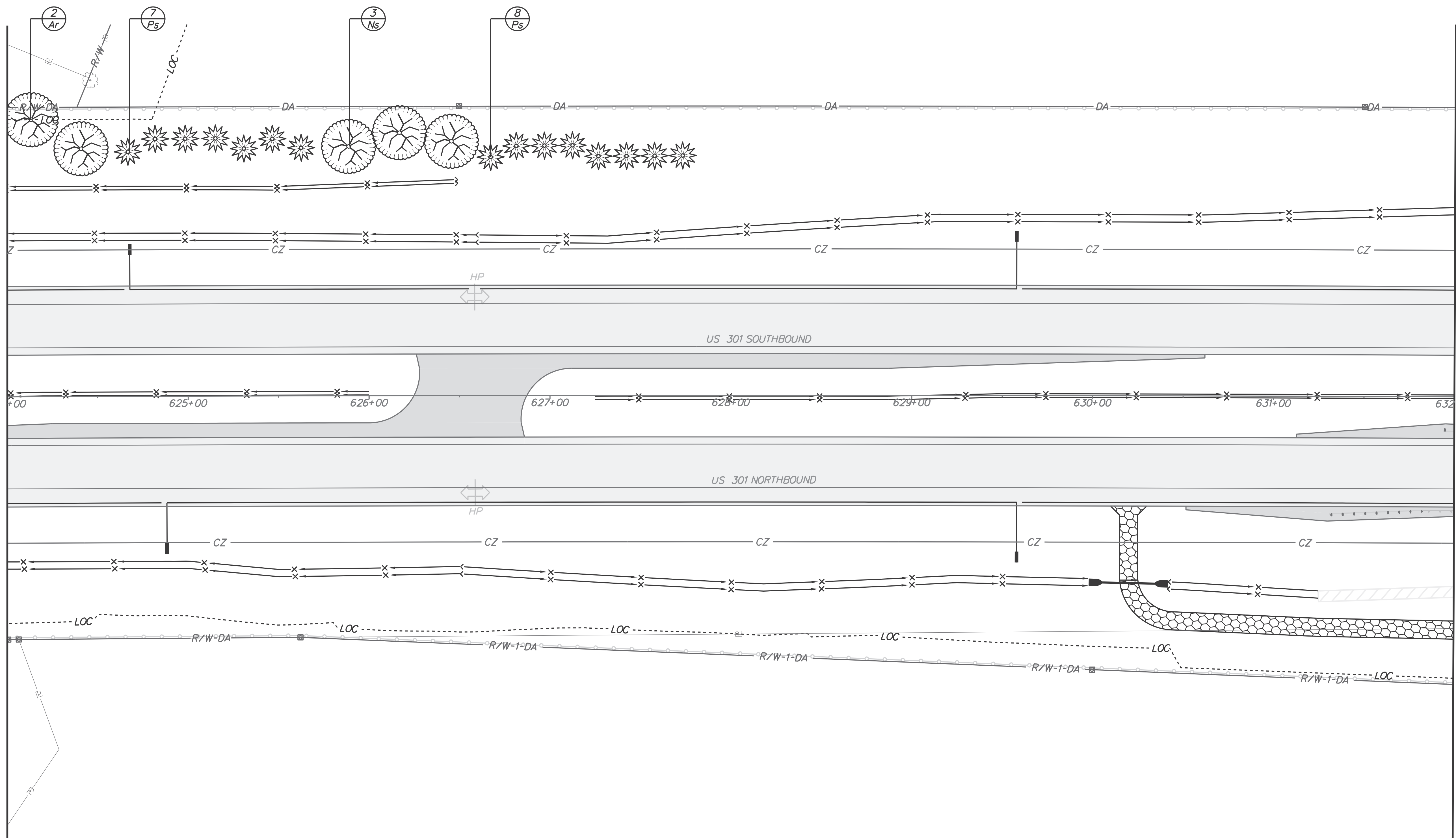
- Major Deciduous Tree
- Evergreen Tree
- Minor Deciduous Tree

LANDSCAPE NOTES

Refer to Landscape Planting Schedule and Notes Sheet for summary of quantities and landscape notes.

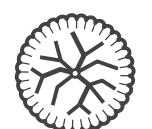
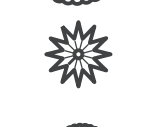
LANDSCAPE PLANTING SCHEDULE		
KEY	PLANTING DESCRIPTION	QUANTITY
MAJOR DECIDUOUS TREES		
Ar	Acer rubrum 'Red Sunset'	6
Ns	Nyssa sylvatica	5
EVERGREEN TREES		
IoM	Ilex opaca 'Miss Helen'	8
IoJ	Ilex opaca 'Jersey Knight'	1
Ps	Pinus strobus	12

MATCH LINE STA. 624 + 00



MATCH LINE STA. 632 + 00

LANDSCAPE LEGEND

-  Major Deciduous Tree
-  Evergreen Tree
-  Minor Deciduous Tree

LANDSCAPE PLANTING SCHEDULE		
KEY	PLANTING DESCRIPTION	QUANTITY
MAJOR DECIDUOUS TREES		
Ar	Acer rubrum 'Red Sunset'	2
Ns	Nyssa sylvatica	3
EVERGREEN TREES		
Ps	Pinus strobus	15

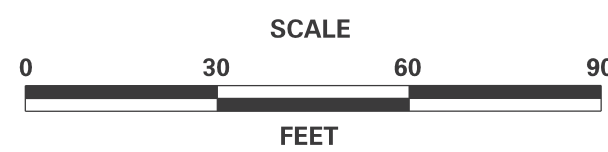
LANDSCAPE NOTES

Refer to Landscape Planting Schedule and Notes Sheet for summary of quantities and landscape notes.

FOR INFORMATION ONLY/WORK BY OTHERS



ADDENDUMS / REVISIONS



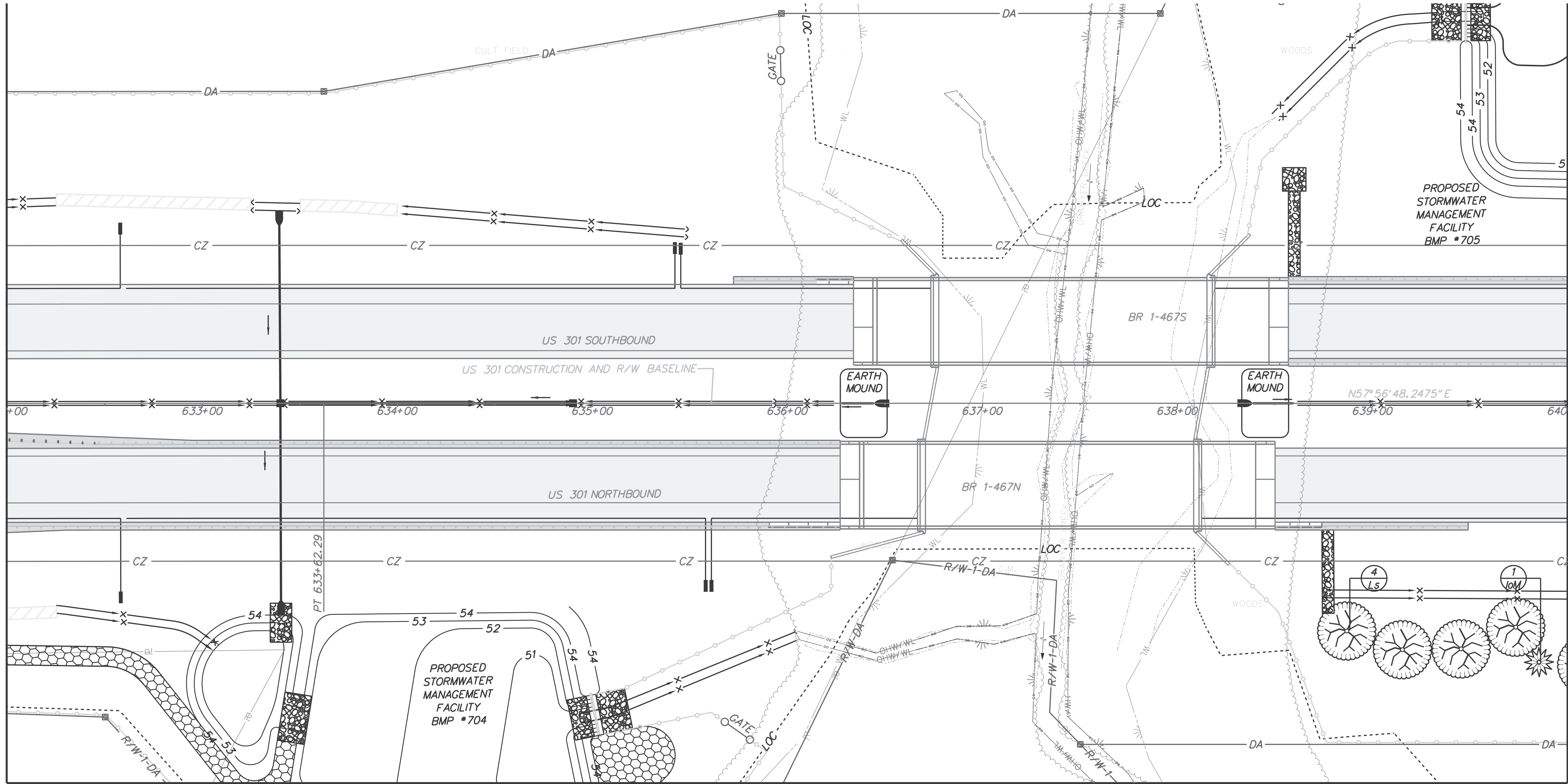
US 301,
NORFOLK SOUTHERN RR TO SR 896

CONTRACT	BRIDGE NO.
T200911301	
COUNTY	DESIGNED BY: DMS
NEW CASTLE	CHECKED BY: AJC

LANDSCAPING PLAN

LS002
SHEET NO.
209
TOTAL SHTS.
240

MATCH LINE STA. 632+00



MATCH LINE STA. 640+00

MATCH LINE SHEET LS004

LANDSCAPE LEGEND

- Major Deciduous Tree
- Evergreen Tree
- Minor Deciduous Tree

LANDSCAPE PLANTING SCHEDULE		
KEY	PLANTING DESCRIPTION	QUANTITY
MAJOR DECIDUOUS TREES		
Ls	Liquidambar styraciflua	4
EVERGREEN TREES		
IoM	Ilex opaca 'Miss Helen'	1

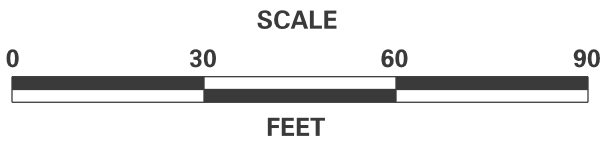
LANDSCAPE NOTES

Refer to Landscape Planting Schedule and Notes Sheet for summary of quantities and landscape notes.

FOR INFORMATION ONLY/WORK BY OTHERS



ADDENDUMS / REVISIONS



US 301,
NORFOLK SOUTHERN RR TO SR 896

CONTRACT	BRIDGE NO.
T200911301	
COUNTY	DESIGNED BY: DMS
NEW CASTLE	CHECKED BY: AJC

LANDSCAPING PLAN

LS003
SHEET NO.
210
TOTAL SHTS.
240

MATCH LINE SHEET LS003



LANDSCAPE LEGEND

- Major Deciduous Tree
- Evergreen Tree
- Minor Deciduous Tree

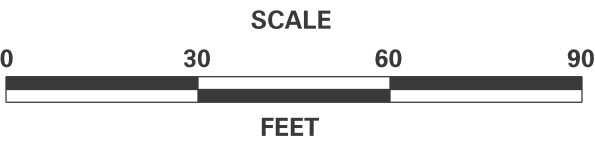
LANDSCAPE NOTES

Refer to Landscape Planting Schedule and Notes
Sheet for summary of quantities and landscape notes.

LANDSCAPE PLANTING SCHEDULE		
KEY	PLANTING DESCRIPTION	QUANTITY
	No planting proposed this sheet.	



ADDENDUMS / REVISIONS



US 301,
NORFOLK SOUTHERN RR TO SR 896

CONTRACT	BRIDGE NO.
T200911301	
COUNTY	DESIGNED BY: DMS
NEW CASTLE	CHECKED BY: AJC

LANDSCAPING PLAN

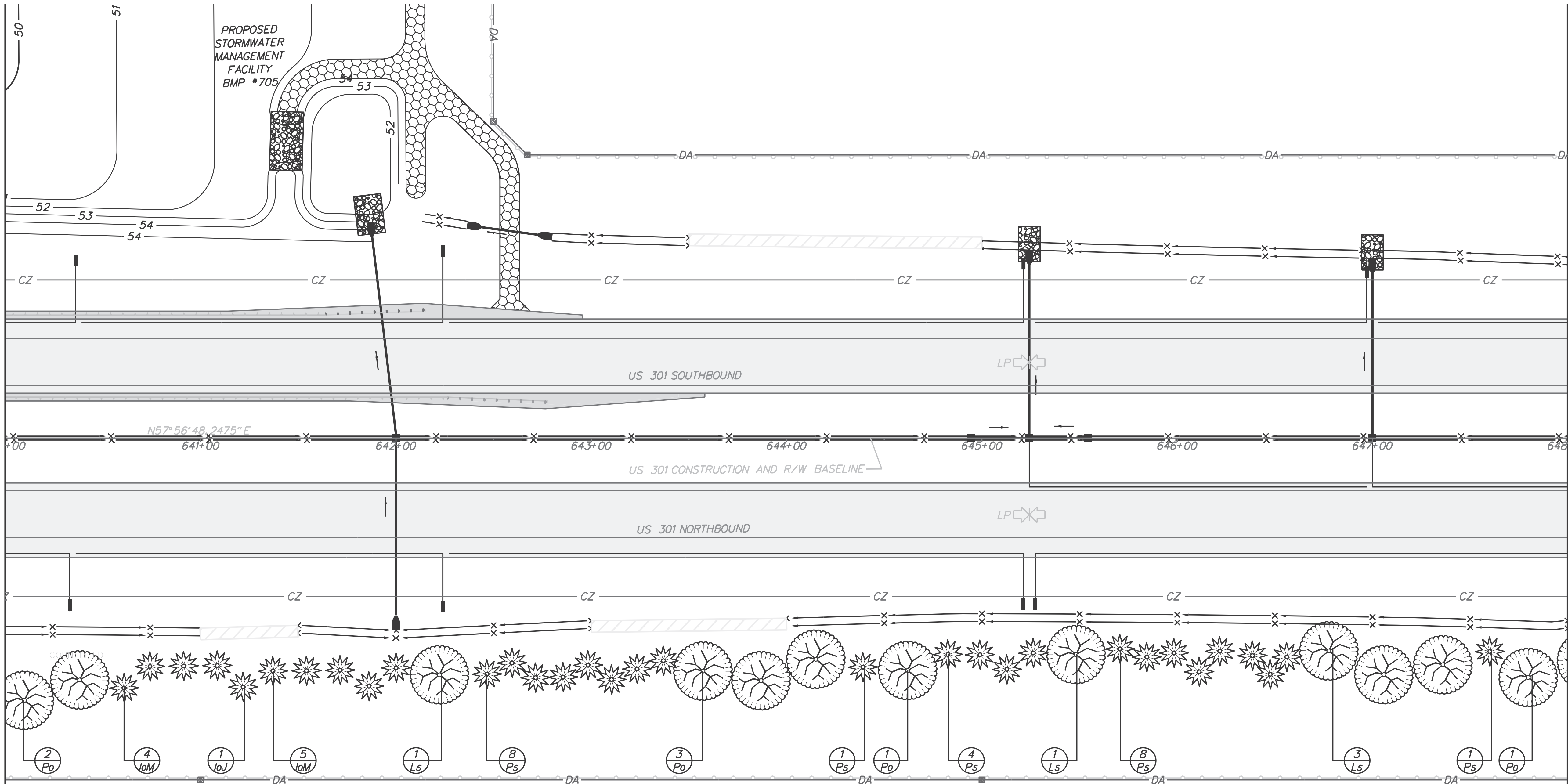
LS004
SHEET NO.
211
TOTAL SHTS.
240

FOR INFORMATION ONLY/WORK BY OTHERS

MATCH LINE STA. 640+00

MATCH LINE SHEET LS003

MATCH LINE STA. 648+00



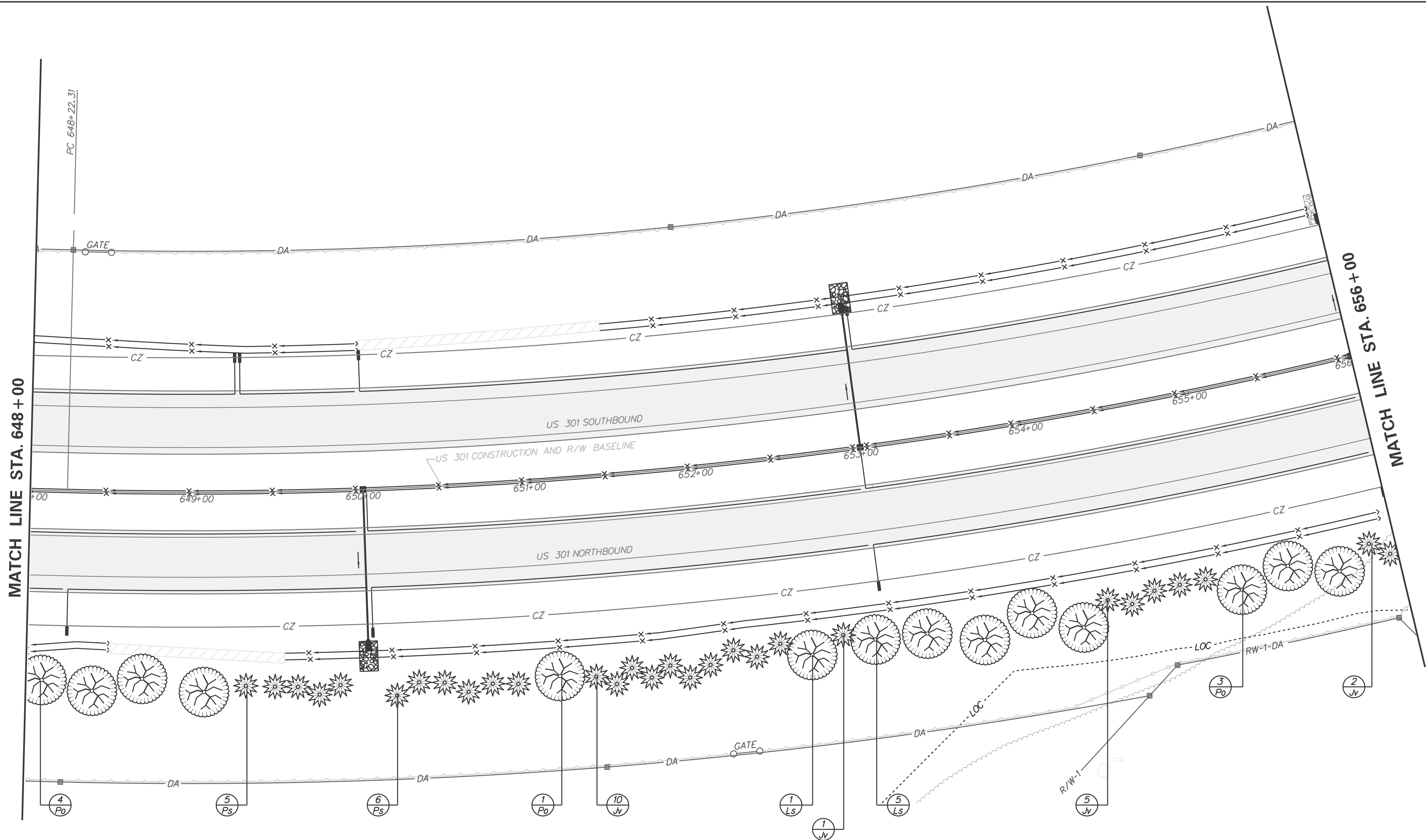
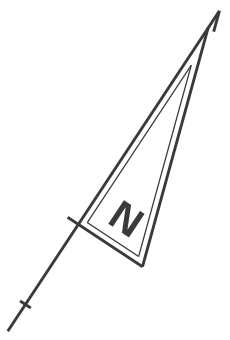
LANDSCAPE LEGEND

- Major Deciduous Tree
- Evergreen Tree
- Minor Deciduous Tree

LANDSCAPE NOTES

Refer to Landscape Planting Schedule and Notes Sheet for summary of quantities and landscape notes.

LANDSCAPE PLANTING SCHEDULE		
KEY	PLANTING DESCRIPTION	QUANTITY
MAJOR DECIDUOUS TREES		
Ls	Liquidambar styraciflua	5
Po	Platanus occidentalis	7
EVERGREEN TREES		
IoM	Ilex opaca 'Miss Helen'	9
IoJ	Ilex opaca 'Jersey Knight'	1
Ps	Pinus strobus	22



LANDSCAPE LEGEND

-  Major Deciduous Tree
-  Evergreen Tree
-  Minor Deciduous Tree

LANDSCAPE PLANTING SCHEDULE

KEY	PLANTING DESCRIPTION	QUANTITY
MAJOR DECIDUOUS TREES		
Ls	Liquidambar styraciflua	6
Po	Platanus occidentalis	8
EVERGREEN TREES		
Jv	Juniperus virginiana	18
Ps	Pinus strobus	11

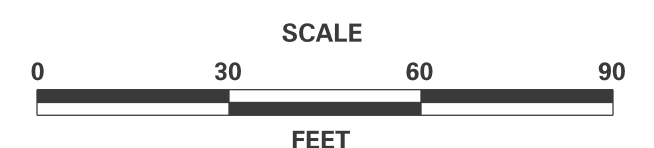
LANDSCAPE NOTES

Refer to Landscape Planting Schedule and Notes Sheet for summary of quantities and landscape notes.

FOR INFORMATION ONLY/WORK BY OTHERS



ADDENDUMS / REVISIONS

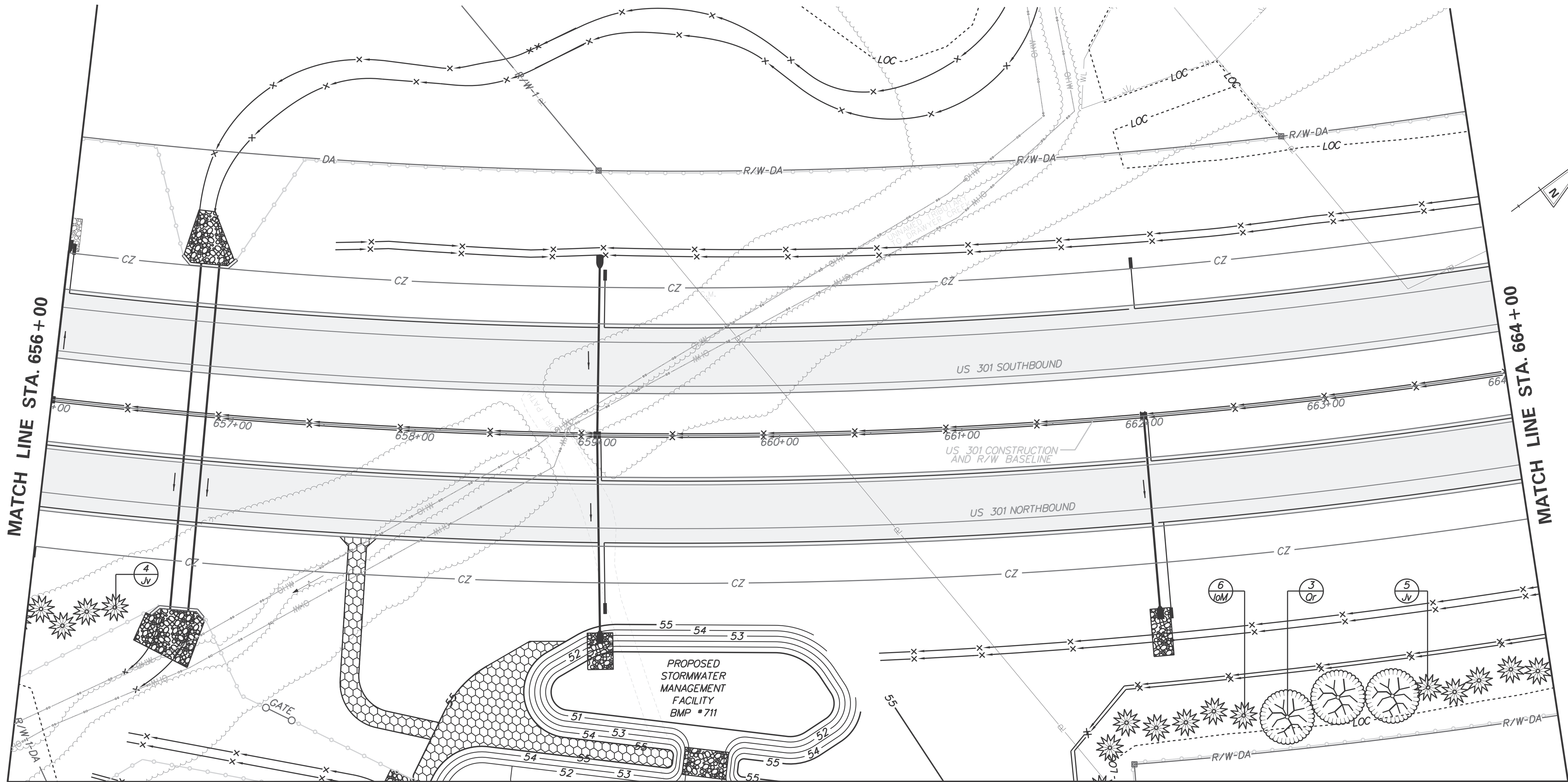


US 301,
NORFOLK SOUTHERN RR TO SR 896

CONTRACT	BRIDGE NO.
T200911301	
COUNTY	DESIGNED BY: DMS
NEW CASTLE	CHECKED BY: AJC

LANDSCAPING PLAN

LS006
SHEET NO.
213
TOTAL SHTS.
240



MATCH LINE SHEET LS008

LANDSCAPE LEGEND

- Major Deciduous Tree
- Evergreen Tree
- Minor Deciduous Tree

LANDSCAPE NOTES

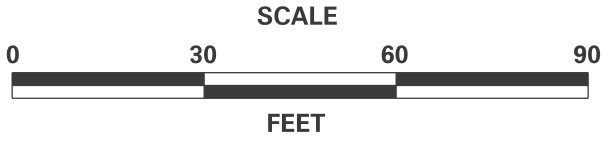
Refer to Landscape Planting Schedule and Notes Sheet for summary of quantities and landscape notes.

LANDSCAPE PLANTING SCHEDULE		
KEY	PLANTING DESCRIPTION	QUANTITY
	MAJOR DECIDUOUS TREES	
Or	Quercus rubra	3
	EVERGREEN TREES	
IoM	Ilex opaca 'Miss Helen'	6
Jv	Juniperus virginiana	9

FOR INFORMATION ONLY/WORK BY OTHERS



ADDENDUMS / REVISIONS



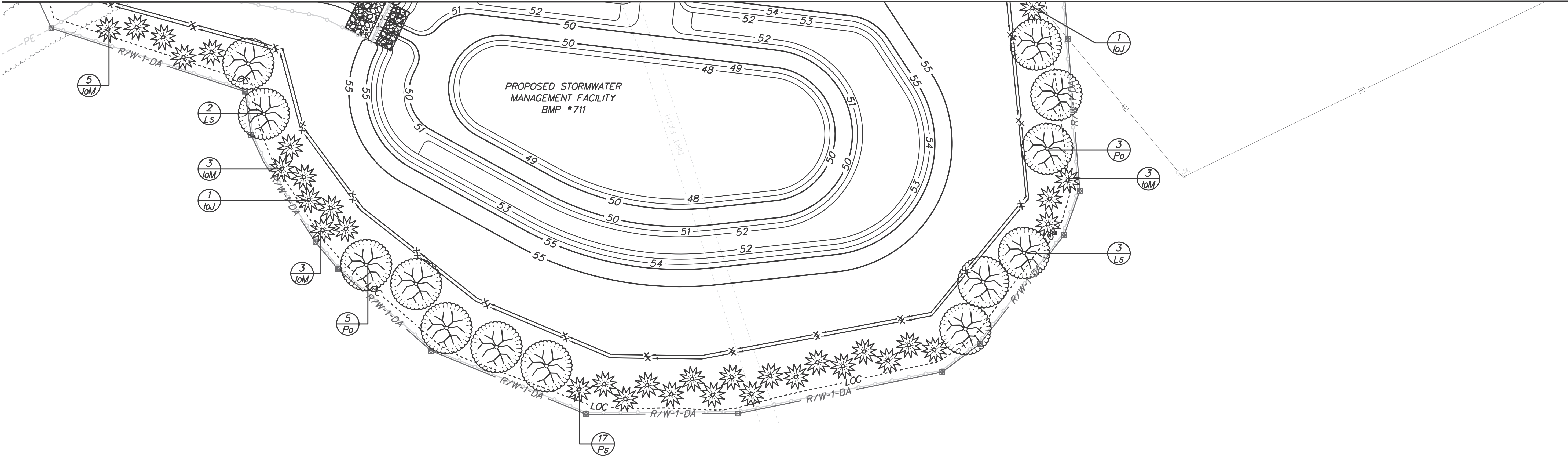
US 301,
NORFOLK SOUTHERN RR TO SR 896

CONTRACT	BRIDGE NO.
T200911301	
COUNTY	DESIGNED BY: DMS
NEW CASTLE	CHECKED BY: AJC

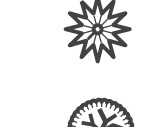
LANDSCAPING PLAN

LS007
SHEET NO.
214
TOTAL SHTS.
240

MATCH LINE SHEET LS007



LANDSCAPE LEGEND

-  Major Deciduous Tree
-  Evergreen Tree
-  Minor Deciduous Tree

LANDSCAPE NOTES

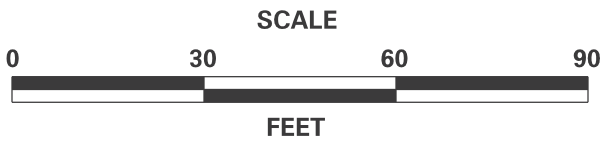
Refer to Landscape Planting Schedule and Notes Sheet for summary of quantities and landscape notes.

LANDSCAPE PLANTING SCHEDULE		
KEY	PLANTING DESCRIPTION	QUANTITY
MAJOR DECIDUOUS TREES		
Ls	Liquidambar styraciflua	5
Po	Platanus occidentalis	8
EVERGREEN TREES		
IoM	Ilex opaca 'Miss Helen'	14
IoJ	Ilex opaca 'Jersey Knight'	2
Ps	Pinus strobus	17

FOR INFORMATION ONLY/WORK BY OTHERS



ADDENDUMS / REVISIONS



US 301,
NORFOLK SOUTHERN RR TO SR 896

CONTRACT	BRIDGE NO.
T200911301	
COUNTY	DESIGNED BY: DMS
NEW CASTLE	CHECKED BY: AJC

LANDSCAPING PLAN

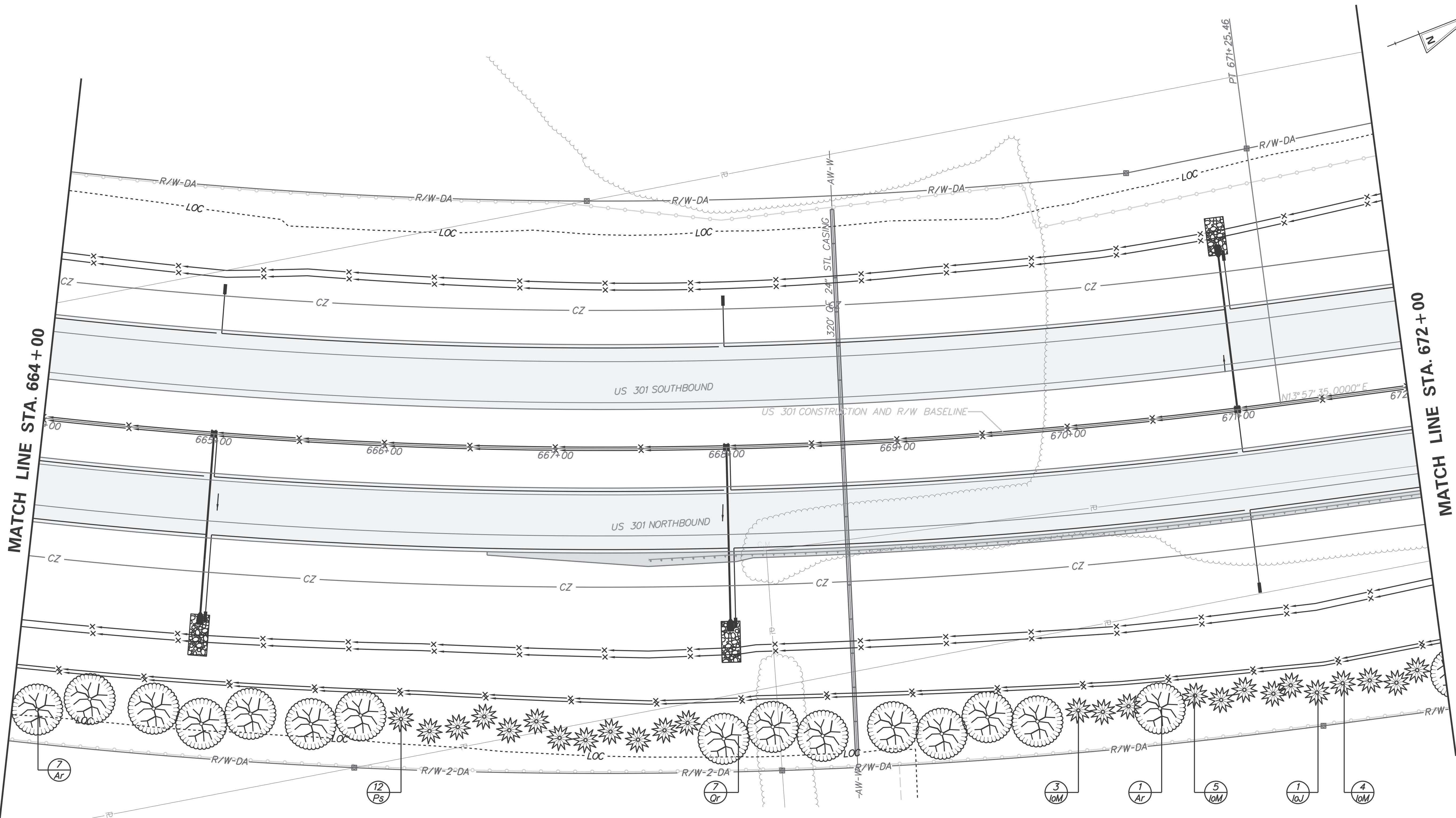
LS008

SHEET NO.

215

TOTAL SHTS.

240



LANDSCAPE LEGEND

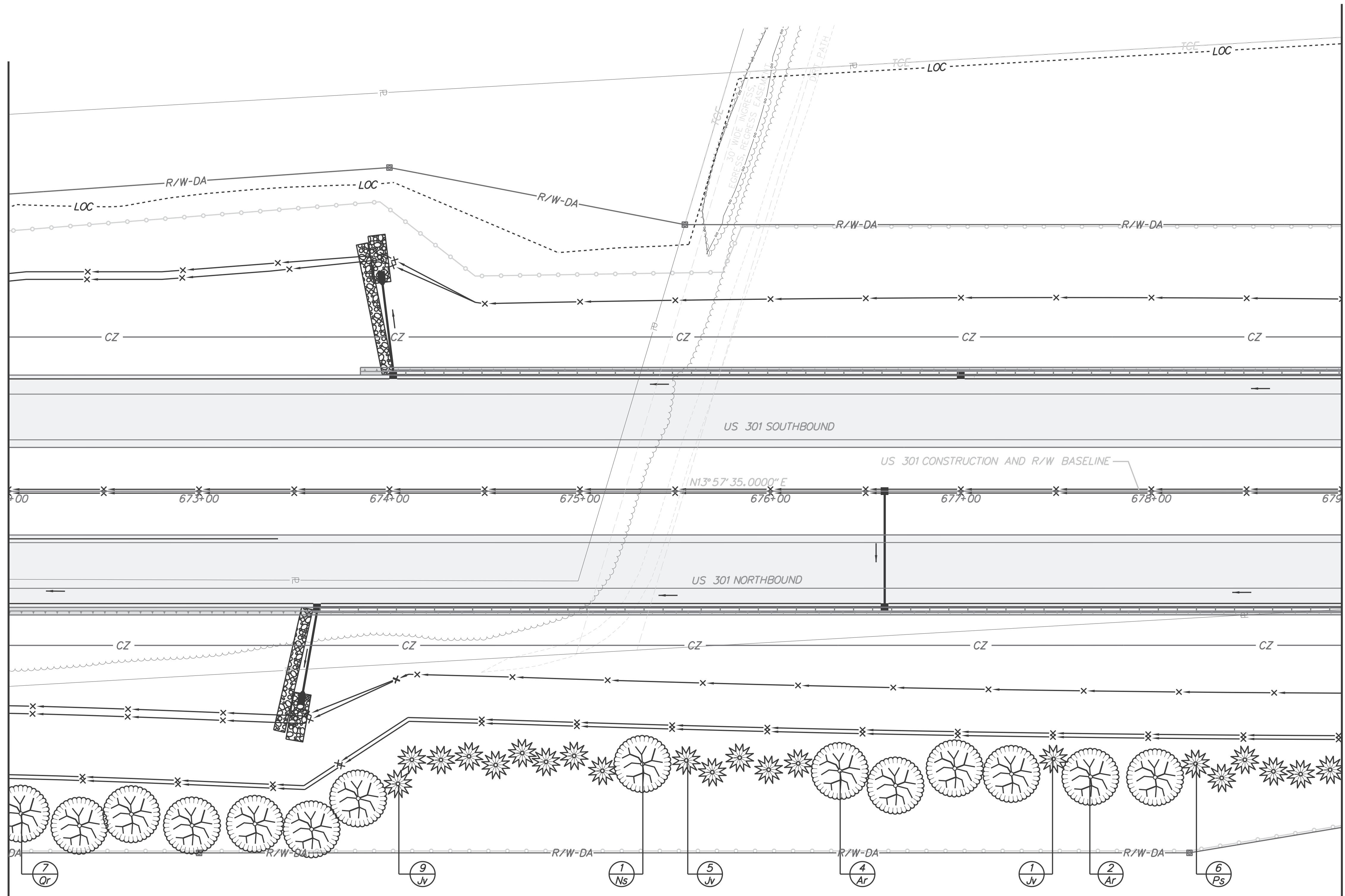
- Major Deciduous Tree
- Evergreen Tree
- Minor Deciduous Tree

LANDSCAPE NOTES

Refer to Landscape Planting Schedule and Notes Sheet for summary of quantities and landscape notes.

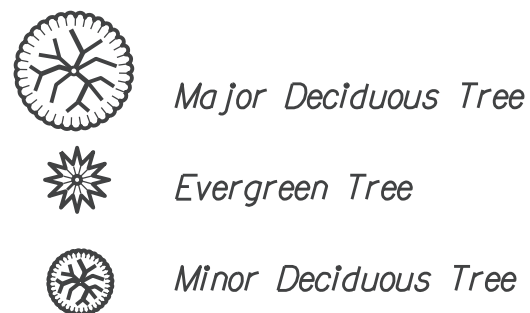
LANDSCAPE PLANTING SCHEDULE		
KEY	PLANTING DESCRIPTION	QUANTITY
MAJOR DECIDUOUS TREES		
Ar	Acer rubrum 'Red Sunset'	8
Or	Quercus rubra	7
EVERGREEN TREES		
IoM	Ilex opaca 'Miss Helen'	12
IoJ	Ilex opaca 'Jersey Knight'	1
Ps	Pinus strobus	12

MATCH LINE STA. 672+00



MATCH LINE STA. 679+00

LANDSCAPE LEGEND



LANDSCAPE NOTES

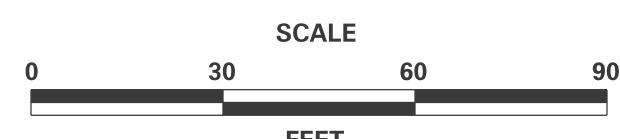
Refer to Landscape Planting Schedule and Notes
Sheet for summary of quantities and landscape notes.

LANDSCAPE PLANTING SCHEDULE

KEY	PLANTING DESCRIPTION	QUANTITY
MAJOR DECIDUOUS TREES		
Ar	Acer rubrum 'Red Sunset'	6
Ns	Nyssa sylvatica	1
Or	Quercus rubra	7
EVERGREEN TREES		
Jv	Juniperus virginiana	15
Ps	Pinus strobus	6



ADDENDUMS / REVISIONS



US 301,
NORFOLK SOUTHERN RR TO SR 896

CONTRACT	BRIDGE NO.
T200911301	
COUNTY	DESIGNED BY: DMS
NEW CASTLE	CHECKED BY: AJC

LANDSCAPING PLAN

FOR INFORMATION ONLY/WORK BY OTHERS

LS010

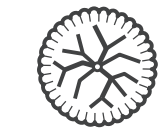
SHEET NO.

217

TOTAL SHTS.

240

LANDSCAPE LEGEND

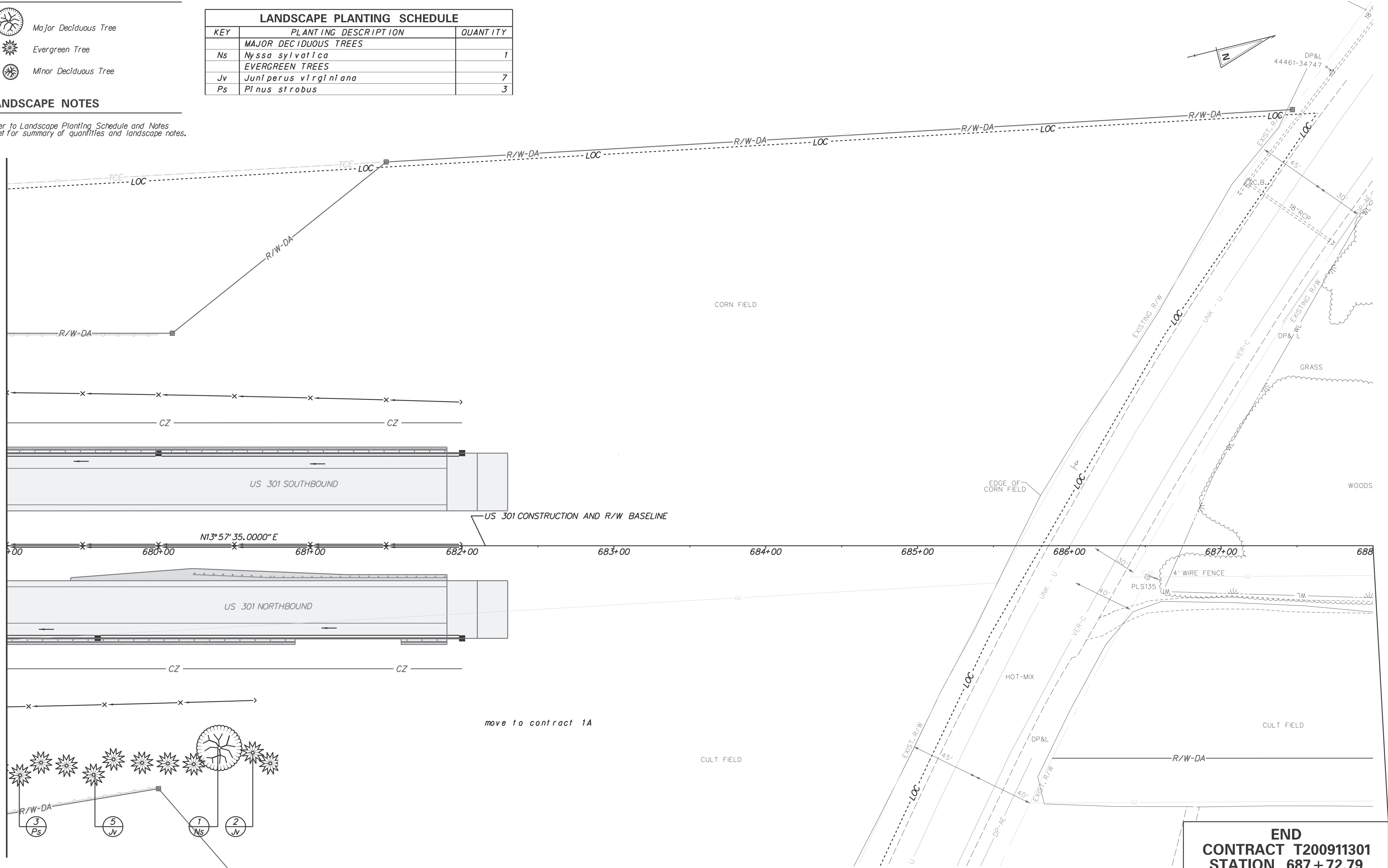
-  Major Deciduous Tree
-  Evergreen Tree
-  Minor Deciduous Tree

LANDSCAPE PLANTING SCHEDULE		
KEY	PLANTING DESCRIPTION	QUANTITY
MAJOR DECIDUOUS TREES		
Ns	Nyssa sylvatica	1
EVERGREEN TREES		
Jv	Juniperus virginiana	7
Ps	Pinus strobus	3

LANDSCAPE NOTES

Refer to Landscape Planting Schedule and Notes Sheet for summary of quantities and landscape notes.

MATCH LINE STA. 679 + 00



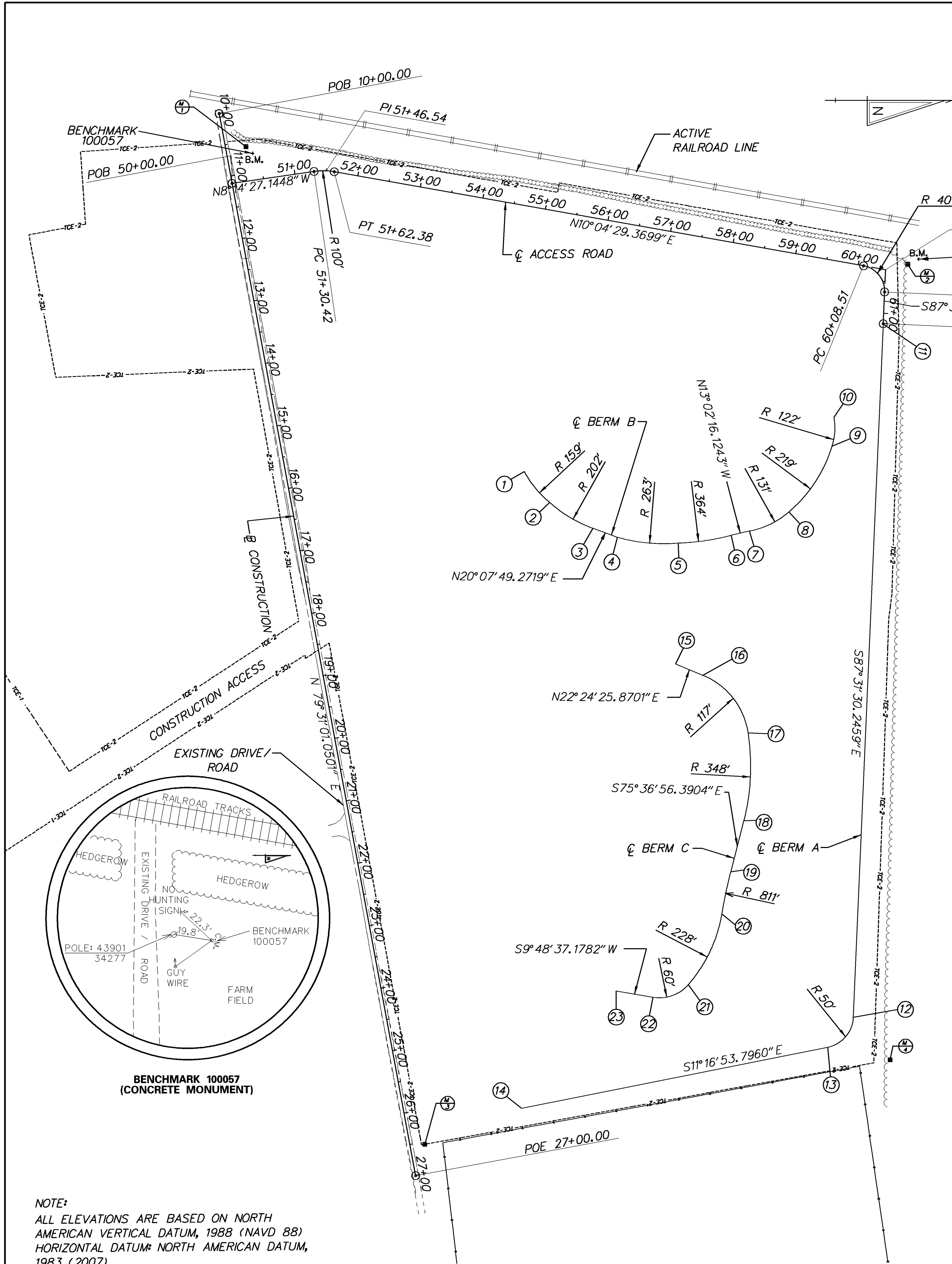
END
CONTRACT T200911301
STATION 687 + 72.79

FOR INFORMATION ONLY/WORK BY OTHERS

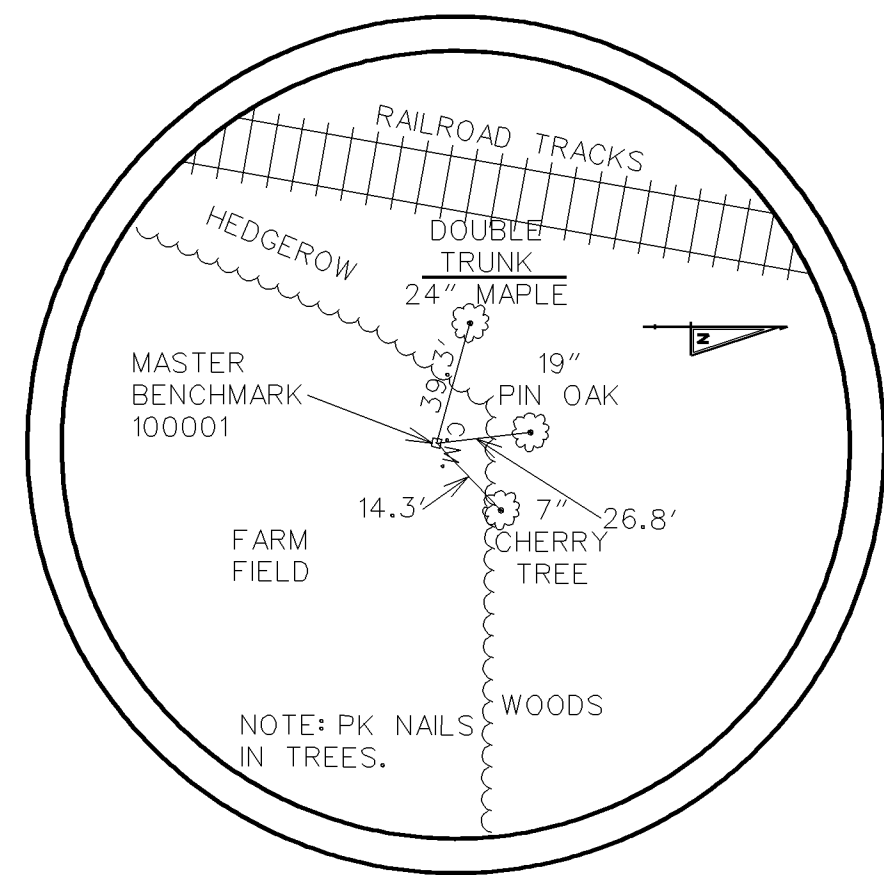
MASTER LANDSCAPE PLANTING SCHEDULE					
QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE AND ROOT CONDITION	COMMENTS
		MAJOR DECIDUOUS TREES			
22	Ar	Acer rubrum 'Red Sunset'	Red Sunset Maple	2" Caliper, B&B	Space approx. 40' OC
20	Ls	Liquidambar styraciflua	Sweet-gum	2" Caliper, B&B	Space approx. 40' OC
10	Ns	Nyssa sylvatica	Blackgum	2" Caliper, B&B	Space approx. 40' OC
23	Po	Platanus occidentalis	Sycamore	2" Caliper, B&B	Space approx. 40' OC
17	Qr	Quercus rubra	Red Oak	2" Caliper, B&B	Space approx. 40' OC
		EVERGREEN TREES			
50	IoM	Ilex opaca 'Miss Helen	American Holly	6' Height, B&B	Space approx. 15' OC
5	IoJ	Ilex opaca 'Jersey Knight'	American Holly (Male Pollinator)	6' Height, B&B	Space approx. 15' OC
49	Jv	Juniperus virginiana	Eastern Redcedar	6' Height, B&B	Space approx. 15' OC
98	Ps	Pinus strobus	Eastern White Pine	6' Height, B&B	Space approx. 15' OC

CG = Container Grown
OC = On Center

9/19/2012 3:17:48 PM
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NOTE:
ALL ELEVATIONS ARE BASED ON NORTH
AMERICAN VERTICAL DATUM, 1988 (NAVD 88)
HORIZONTAL DATUM: NORTH AMERICAN DATUM,
1983 (2007).



MASTER BENCHMARK 100001
(CONCRETE MONUMENT)

BERM STAKE OUT DATA

POINT	STATION	OFFSET	NORTHING	EASTING	REMARKS
①	16+41.51	369.89 LT	544926.69	572842.35	POB BERM B
②	16+96.22	400.11 LT	544966.36	572890.65	PCC BERM B
③	17+48.95	460.03 LT	545034.88	572931.60	PT BERM B
④	17+69.73	495.15 LT	545073.19	572945.64	PC BERM B
⑤	17+96.17	587.33 LT	545168.65	572954.87	PCC BERM B
⑥	17+99.23	671.58 LT	545252.05	572942.55	PT BERM B
⑦	17+97.92	700.86 LT	545280.60	572935.94	PC BERM B
⑧	17+79.49	767.92 LT	545343.19	572905.61	PCC BERM B
⑨	16+90.55	852.84 LT	545410.51	572802.70	PCC BERM B
⑩	16+45.64	864.75 LT	545414.04	572756.38	POE BERM B
⑪	15+16.02	967.33 LT	545491.33	572610.26	POT BERM A
⑫	25+80.44	722.41 LT	545444.17	573701.48	PC BERM A
⑬	26+19.23	674.38 LT	545404.00	573748.35	PT BERM A
⑭	26+26.07	183.39 LT	544922.44	573844.42	POE BERM A
⑮	19+82.59	548.81 LT	545164.69	573145.19	POB BERM C
⑯	20+07.93	587.99 LT	545207.82	573162.97	PC BERM C
⑰	21+10.06	641.39 LT	545278.91	573253.68	PCC BERM C
⑱	22+44.85	609.31 LT	545271.90	573392.06	PT BERM C
⑲	23+20.07	574.45 LT	545251.30	573472.37	PC BERM C
⑳	23+82.52	548.61 LT	545237.25	573538.48	PRC BERM C
㉑	24+82.53	476.55 LT	545184.59	573649.93	PCC BERM C
㉒	24+91.87	418.35 LT	545129.07	573669.71	PT BERM C
㉓	24+71.42	363.03 LT	545070.95	573659.66	POE BERM C

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	STATION	OFFSET	NORTHING	EASTING
M-1	10+59.05	32.13' LT	544488.5937	572331.0730
M-2	14+30.50	1022.56' LT	545530.0767	572516.1172
M-3	26+54.23	23.11' LT	544770.1170	573901.1012
M-4	26+56.74	767.29' LT	545502.1740	573768.3292

HORIZONTAL / VERTICAL CONTROL DATA

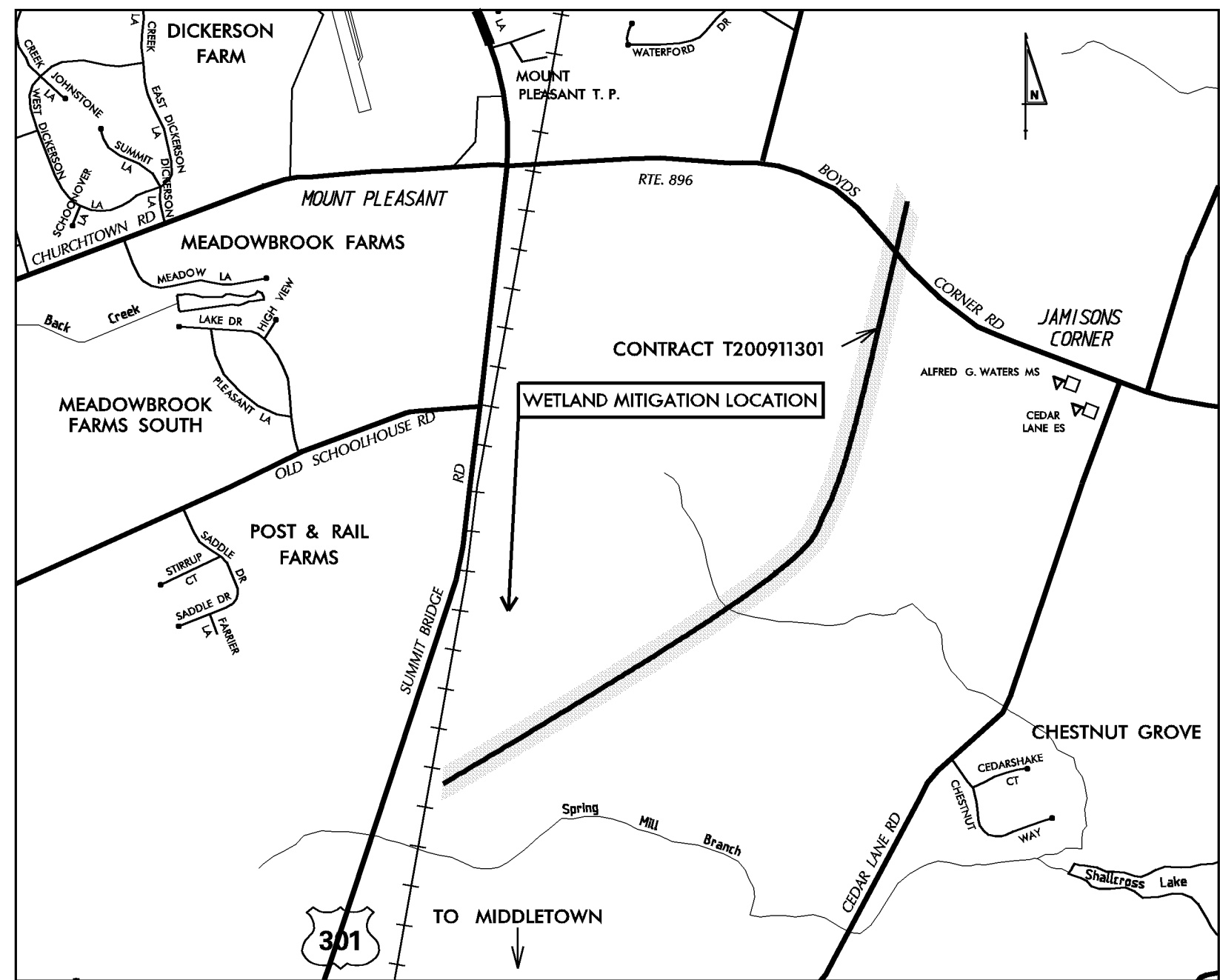
NO.	NORTHING	EASTING	ELEVATION
100001	545518.1780	572516.7934	65.97
100057	544490.6594	572329.4492	68.13

CONSTRUCTION ALIGNMENT CONTROL-R CONSTRUCTION

POINT	STATION	OFFSET	NORTHING	EASTING
POB	10+00.00	0.00	544446.2603	572278.8523
POE	27+00.00	0.00	544755.5659	573950.4772

CONSTRUCTION ALIGNMENT CONTROL-Q ACCESS ROAD

POINT	STATION	OFFSET	NORTHING	EASTING
POB	50+00.00	0.00	544466.5855	572388.6989
PC	51+30.42	0.00	544595.6556	572370.0056
PI	51+46.54	1.29 LT	544611.6101	572367.6949
PT	51+62.38	0.00	544627.4825	572370.5150
PC	60+08.51	0.00	545460.5573	572518.5306
PI	60+43.52	13.16 LT	545495.0348	572524.6563
PT	60+66.03	0.00	545493.5227	572559.6411
POE	61+16.03	0.00	545491.3636	572609.5945



PROJECT LOCATION MAP

NOT TO SCALE

WM-1

Prepared by:
RUMMEL, KLEPPER & KAHL, LLP

**PLEASANTON
WETLAND MITIGATION
HORIZONTAL AND VERTICAL
CONTROL PLAN**

SHEET NO.

220

TOTAL SHTS.

240



**DELAWARE
DEPARTMENT OF TRANSPORTATION**

ADDENDUMS / REVISIONS



**US 301,
NORFOLK SOUTHERN RR TO SR 896**

CONTRACT

T200911301

COUNTY

NEW CASTLE

BRIDGE NO.

X

DESIGNED BY: WMM

CHECKED BY: JTR

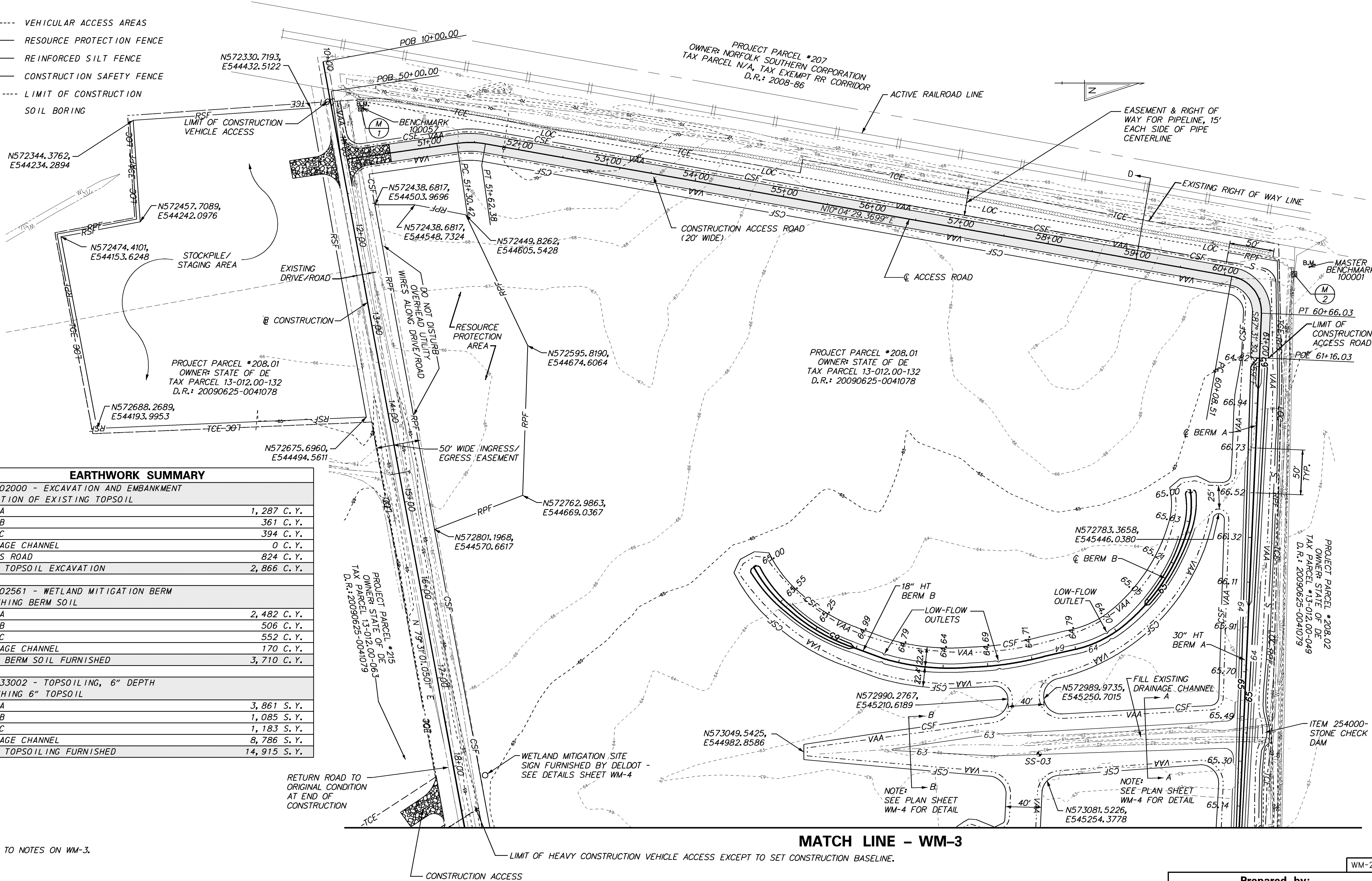
LEGEND

- VAA ----- VEHICULAR ACCESS AREAS
—— RPF —— RESOURCE PROTECTION FENCE
—— RSF —— REINFORCED SILT FENCE
—— CSF —— CONSTRUCTION SAFETY FENCE
----- LOC ----- LIMIT OF CONSTRUCTION
● SOIL BORING

EARTHWORK SUMMARY	
ITEM 202000 - EXCAVATION AND EMBANKMENT EXCAVATION OF EXISTING TOPSOIL	
BERM A	1, 287 C. Y.
BERM B	361 C. Y.
BERM C	394 C. Y.
DRAINAGE CHANNEL	0 C. Y.
ACCESS ROAD	824 C. Y.
TOTAL TOPSOIL EXCAVATION	2, 866 C. Y.
ITEM 202561 - WETLAND MITIGATION BERM FURNISHING BERM SOIL	
BERM A	2, 482 C. Y.
BERM B	506 C. Y.
BERM C	552 C. Y.
DRAINAGE CHANNEL	170 C. Y.
TOTAL BERM SOIL FURNISHED	3, 710 C. Y.
ITEM 733002 - TOPSOILING, 6" DEPTH FURNISHING 6" TOPSOIL	
BERM A	3, 861 S. Y.
BERM B	1, 085 S. Y.
BERM C	1, 183 S. Y.
DRAINAGE CHANNEL	8, 786 S. Y.
TOTAL TOPSOILING FURNISHED	14, 915 S. Y.

NOTES

1. REFER TO NOTES ON WM-3.



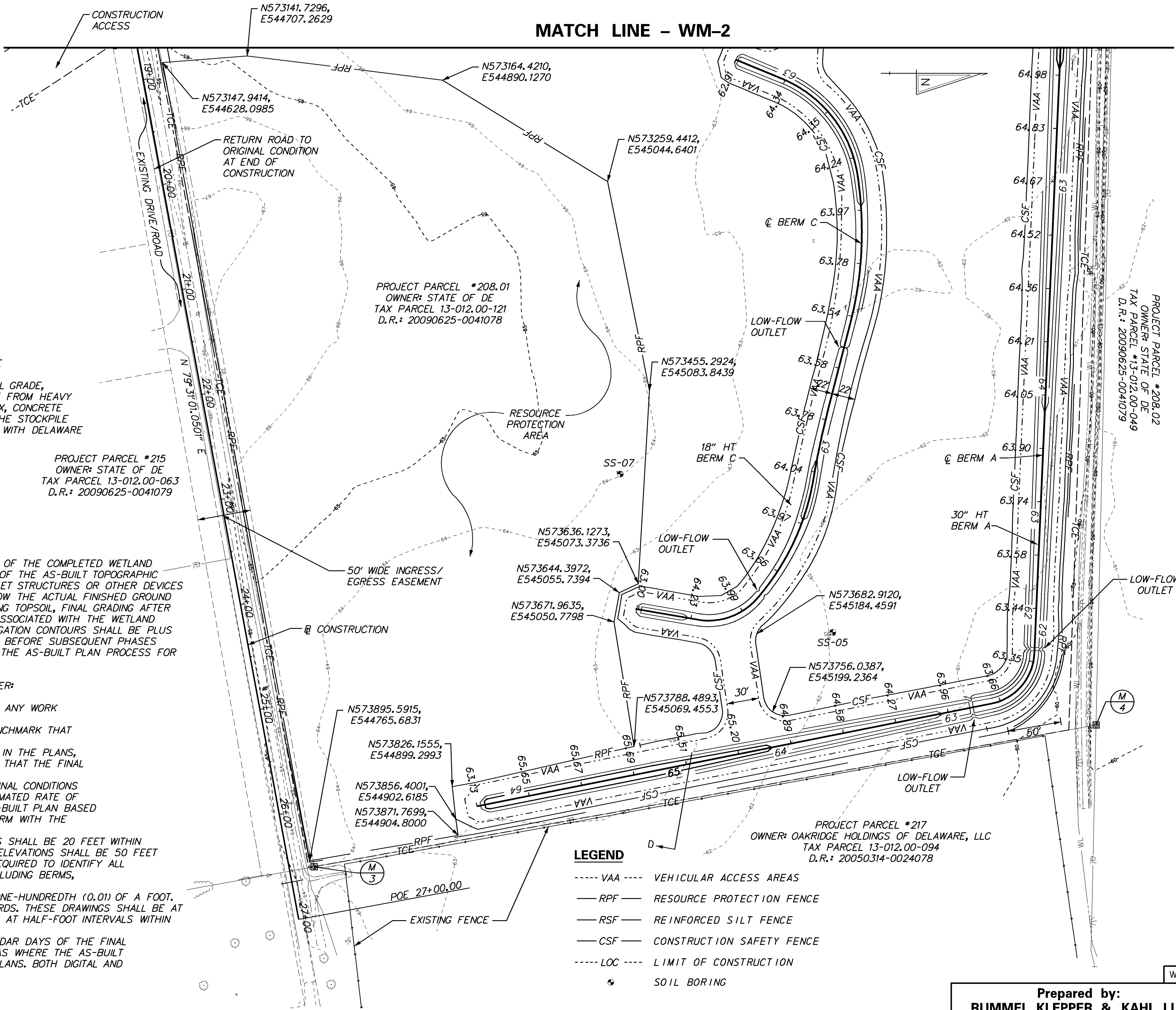
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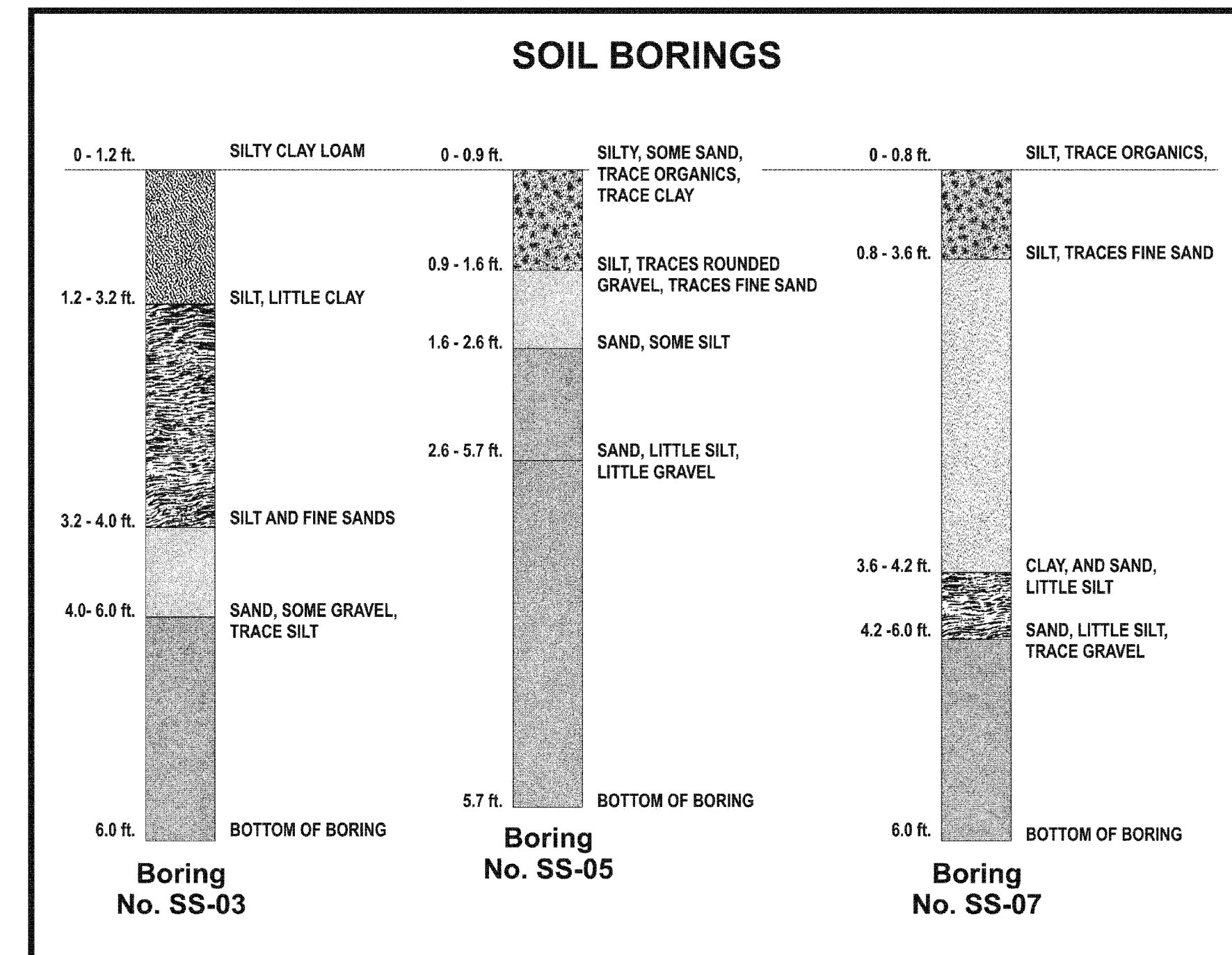
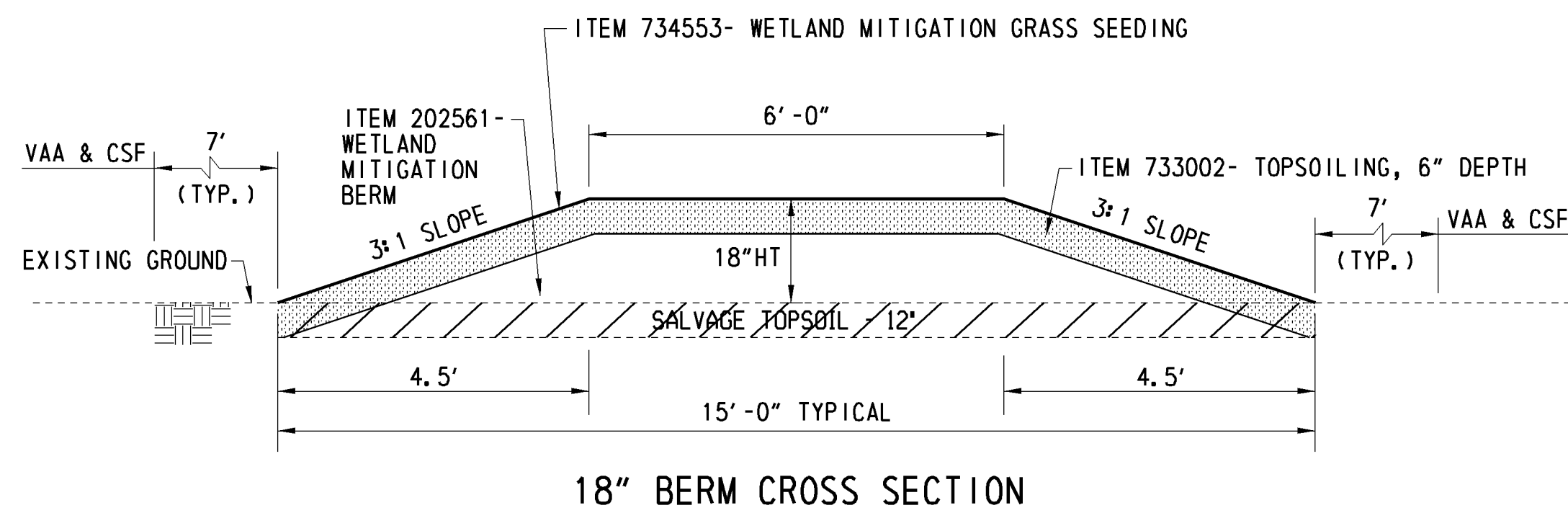
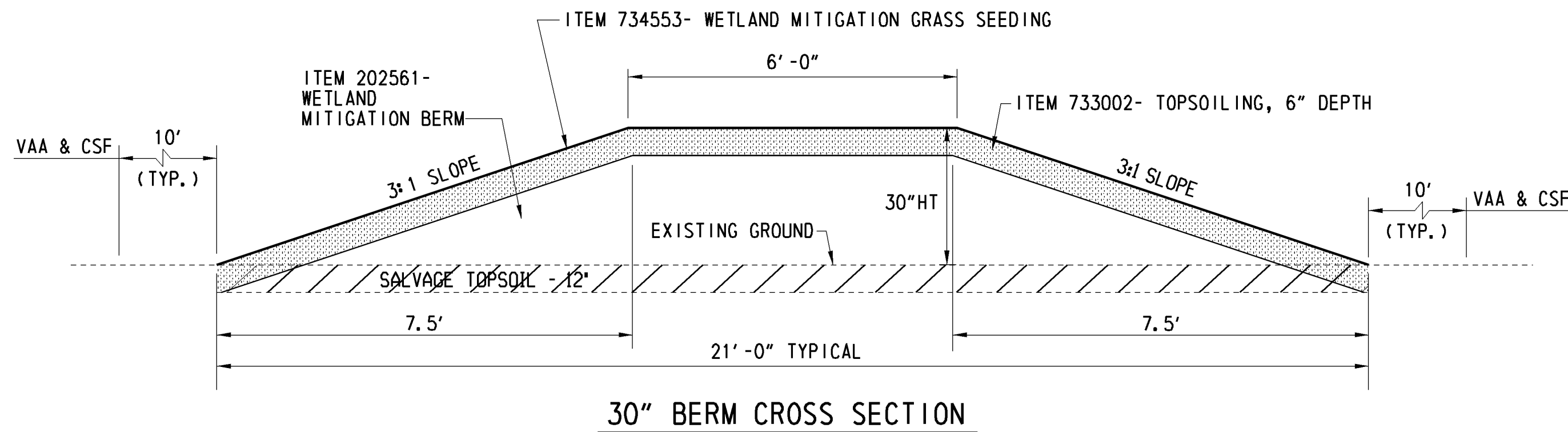
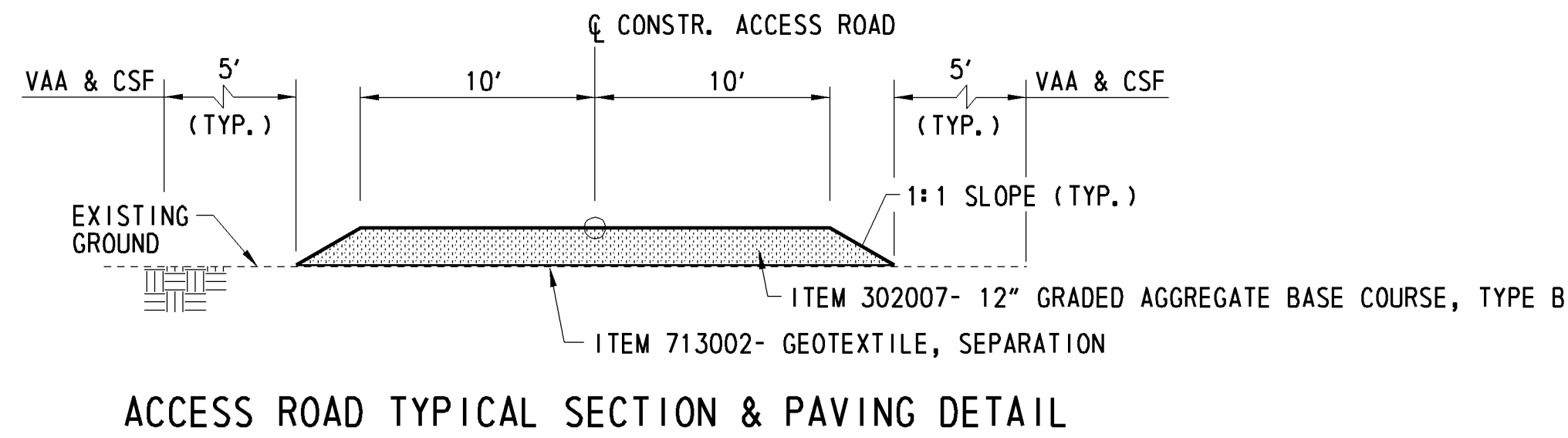
- HORIZONTAL AND VERTICAL CONTROL FOR THE PROPOSED GRADING SHALL BE BASED ON SURVEY CONTROL POINT KNOWN AS MASTER BENCHMARK 100001. (REFER TO HORIZONTAL/VERTICAL CONTROL DATA SCHEDULE ON WM-1).
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE MASTER BENCHMARK DURING CONSTRUCTION.
- THE BENCHMARK SHALL NOT BE RESET OR RE-EVALUATED FOR ELEVATIONS. ALL GRADING ELEVATIONS SHALL BE REFERENCED TO THE BENCHMARK DATUM.
- TOPOGRAPHIC SURVEY COMPILED FROM PHOTOGRAMMETRY CONDUCTED BY AERO-METRIC, INC. IN 2006, AND FROM GROUND SURVEY BY CENTURY ENGINEERING, INC. IN 2009.
- CONSTRUCTION VEHICLES ARE ONLY PERMITTED IN AREAS DESIGNATED BY THE VAA LINE. CONSTRUCTION VEHICLES ARE PROHIBITED FROM DRIVING ON ANY OTHER PORTION OF THE CONSTRUCTION SITE.
- THE CONSTRUCTION TOLERANCE SHALL BE WITHIN 0.1 FEET OF SPECIFIED ELEVATIONS AND SHALL BE STRICTLY ADHERED TO FOR ALL EXCAVATION/GRADING OPERATIONS UNLESS OTHERWISE SPECIFIED BY THE ENGINEER. ONLY AT THE DIRECTION OF THE ENGINEER SHALL THE CONTRACTOR MODIFY THE GRADING SPECIFIED IN THESE DESIGN PLANS.
- REFER TO SHEET WM-6 FOR ADDITIONAL NOTES APPLICABLE TO CONSTRUCTION.
- EARTHWORK SUMMARY TABLE IS LOCATED ON SHEET WM-2.
- SOIL PROFILE INFORMATION FOR SOIL BORINGS SS-03, SS-05, AND SS-07 IS LOCATED ON SHEET WM-4.
- THE CONTRACTOR MUST ALWAYS MAINTAIN ACCESS ALONG THE EXISTING DRIVE/ROAD FOR THE PRIVATE PROPERTIES LOCATED ALONG THE DRIVE/ROAD.
- THE EXISTING DRIVE/ROAD SHALL BE RESTORED FULLY TO ITS ORIGINAL PAVED CONDITION AT THE COMPLETION OF THE CONTRACT BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- THE STOCKPILE/STAGING AREA SHALL BE FULLY RESTORED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. ALL STOCKPILED MATERIAL SHALL BE REMOVED AND THE AREA RETURNED TO PRECONSTRUCTION GRADES. WHERE EXCAVATED BELOW ORIGINAL GRADE, THE CONTRACTOR SHALL ENSURE A MINIMUM OF 4" OF TOPSOIL (FRIABLE LOAM TOPSOIL FREE FROM HEAVY CLAY AND FOREIGN MATERIALS HARMFUL TO PLANT GROWTH, SUCH AS FRAGMENTS OF HOT-MIX, CONCRETE PAVEMENT AND SURFACE TREATMENT WITH A MINIMUM OF 3% ORGANIC MATTER) REMAINS IN THE STOCKPILE /STAGING AREA. THE RESTORED STOCKPILE/STAGING AREA SHALL BE SEEDED IN ACCORDANCE WITH DELAWARE STANDARD SPECIFICATION ITEM 734551- NATIVE GRASS SEEDING: NO MOW MIX.
- ALL CONSTRUCTION ACCESS SHALL BE FROM THE US 301 MAINLINE WORK AREA. ACCESS ACROSS NORFOLK SOUTHERN RAILROAD IS PROHIBITED.
- MONUMENTS M-1 THROUGH M-4 ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND SHALL BE INSTALLED BY OTHERS.
- REMOVAL OF THE CONSTRUCTION ACCESS ROAD SHALL BE PAID FOR UNDER ITEM 202000- EXCAVATION AND EMBANKMENT.
- THE CONTRACTOR SHALL COORDINATE WITH DELDOT TO HAVE AS-BUILT TOPOGRAPHIC SURVEYS OF THE COMPLETED WETLAND MITIGATION SITE PERFORMED BY DELDOT OR THEIR DESIGNATED REPRESENTATIVE. THE LIMITS OF THE AS-BUILT TOPOGRAPHIC SURVEY SHALL INCLUDE ALL DISTURBED AREAS AND DETAILED AS-BUILT INFORMATION OF OUTLET STRUCTURES OR OTHER DEVICES WITHIN THE LIMITS OF THE DISTURBED AREA. THE AS-BUILT PLAN SHALL BE INTENDED TO SHOW THE ACTUAL FINISHED GROUND CONTOURS AS THEY EXIST AT THE TIME OF FINAL EXCAVATION TO SUBGRADE PRIOR TO PLACING TOPSOIL, FINAL GRADING AFTER TOPSOIL HAS BEEN PLACED AND DETAILS OF ALL OUTLET DEVICES AND OTHER STRUCTURES ASSOCIATED WITH THE WETLAND MITIGATION SITE. THE TOLERANCE FOR FINAL EXCAVATED SUBGRADES AND FINAL WETLAND MITIGATION CONTOURS SHALL BE PLUS OR MINUS ONE-TENTH (0.1) OF A FOOT. IF ANY CHANGES OCCUR TO THE AS-BUILT CONDITIONS BEFORE SUBSEQUENT PHASES OF WORK ARE PERFORMED, THE CONTRACTOR SHALL CORRECT THE CHANGED CONDITIONS AND THE AS-BUILT PLAN PROCESS FOR THE AREA WHERE THE CHANGED CONDITIONS OCCURRED SHALL BE RE-ESTABLISHED.

THE AS-BUILT SURVEYS AND AS-BUILT PLANS SHALL BE DEVELOPED IN THE FOLLOWING MANNER:

- DELDOT AND THE CONTRACTOR SHALL AGREE ON ORIGINAL GROUND ELEVATIONS PRIOR TO ANY WORK BEING PERFORMED THAT WOULD ALTER ORIGINAL GROUND CONDITIONS.
- DELDOT AND THE CONTRACTOR SHALL CONFIRM THE MASTER SURVEY CONTROL POINT/BENCHMARK THAT WILL BE USED FOR THE DURATION OF THE PROJECT.
- AS THE CONTRACTOR PERFORMS WORK TOWARDS AN AS-BUILT MILESTONE AS IDENTIFIED IN THE PLANS, THE CONTRACTOR SHALL PROVIDE DELDOT A MINIMUM 5 CALENDAR DAY ADVANCE NOTICE THAT THE FINAL CONDITIONS ARE READY FOR THE AS-BUILT TOPOGRAPHIC SURVEY TO BE PERFORMED.
- DELDOT OR THEIR DESIGNATED REPRESENTATIVE WILL THEN PERFORM SURVEY ON THE FINAL CONDITIONS AND PREPARE AN AS-BUILT PLAN. THE AS-BUILT SURVEY WILL BE OBTAINED AT AN ESTIMATED RATE OF 5 ACRES OF CONTIGUOUS AREA PER WORKING DAY. DELDOT WILL THEN PREPARE AN AS-BUILT PLAN BASED ON THE SURVEY INFORMATION. THE AS-BUILT SURVEY AND PLAN WILL GENERALLY CONFORM WITH THE FOLLOWING PARAMETERS:
 - SPOT ELEVATION INTERVALS AND MAXIMUM DISTANCES BETWEEN SPOT ELEVATIONS SHALL BE 20 FEET WITHIN THE VAA. SPOT ELEVATION INTERVALS AND MAXIMUM DISTANCES BETWEEN SPOT ELEVATIONS SHALL BE 50 FEET FOR ALL OTHER AREAS. ADDITIONAL SPOT ELEVATIONS SHALL BE OBTAINED AS REQUIRED TO IDENTIFY ALL BREAKS IN GRADE, AND OTHER FEATURES OF THE WETLAND MITIGATION SITE, INCLUDING BERMS, LOW FLOW OUTLETS, ETC.
 - SPOT ELEVATIONS SHALL BE OBTAINED AND SHOWN ON THE AS-BUILT PLAN TO ONE-HUNDREDTH (0.01) OF A FOOT. THE AS-BUILT PLAN SHALL BE PREPARED CONFORMING TO DELDOT CADD STANDARDS. THESE DRAWINGS SHALL BE AT THE SAME SCALE AS THE CONTRACT PLAN SHEETS. CONTOURS SHALL BE SHOWN AT HALF-FOOT INTERVALS WITHIN THE VAA AND AT ONE-FOOT INTERVALS FOR AREAS OUTSIDE OF THE VAA.
- DELDOT WILL PROVIDE THE AS-BUILT PLAN TO THE CONTRACTOR WITHIN SEVEN (7) CALENDAR DAYS OF THE FINAL AS-BUILT SURVEY INFORMATION BEING OBTAINED. THE AS-BUILT PLAN WILL IDENTIFY AREAS WHERE THE AS-BUILT CONDITIONS DO NOT CONFORM TO THE LINES AND GRADES PROVIDED IN THE CONTRACT PLANS. BOTH DIGITAL AND PAPER FORMATS OF THE AS-BUILT PLAN WILL BE PROVIDED.

NOTES CONTINUED ON SHEET WM-4.





f. THE CONTRACTOR SHALL INFORM DELDOT WITHIN SEVEN (7) CALENDAR DAYS IF THEY AGREE WITH THE AS-BUILT PLAN PROVIDED BY DELDOT. IF THE CONTRACTOR DOES NOT AGREE WITH THE AS-BUILT PLAN PROVIDED BY DELDOT, THE CONTRACTOR SHALL AT THAT TIME PROVIDE AN AS-BUILT PLAN THAT HAS BEEN SIGNED AND SEALED BY A PROFESSIONAL SURVEYOR OR PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF DELAWARE. THE AS-BUILT PLAN SHALL CONFORM TO THE REQUIREMENTS DESCRIBED ABOVE AND SHALL NOTE AREAS WHERE THE CONTRACTOR DOES NOT AGREE WITH THE DELDOT AS-BUILT PLAN AND AREAS WHERE THE AS-BUILT CONDITIONS DO NOT CONFORM TO THE LINES AND GRADES PROVIDED IN THE CONTRACT PLANS. DELDOT SHALL THEN INFORM THE CONTRACTOR WITHIN SEVEN (7) CALENDAR DAYS IF THEY AGREE WITH THE CONTRACTOR'S AS-BUILT INFORMATION OR PROVIDE THE CONTRACTOR WITH ANOTHER AS-BUILT PLAN. THE CONTRACTOR WILL THEN HAVE ANOTHER SEVEN (7) CALENDAR DAYS TO INFORM DELDOT IF THEY AGREE WITH THE CURRENT INFORMATION AND, IF NOT, THE ABOVE PROCESS WILL CONTINUE UNTIL DELDOT AND THE CONTRACTOR AGREE ON THE AS-BUILT CONDITIONS.

g. THE CONTRACTOR SHALL CORRECT ANY DEFECTIVE AREAS AT THE CONTRACTOR'S EXPENSE. THERE SHALL BE NO ADDITIONAL PAYMENT FOR GRADING, SEEDING, MULCHING, EROSION AND SEDIMENT CONTROL MEASURES OR ANY OTHER WORK REQUIRED FOR THE CORRECTIONS.

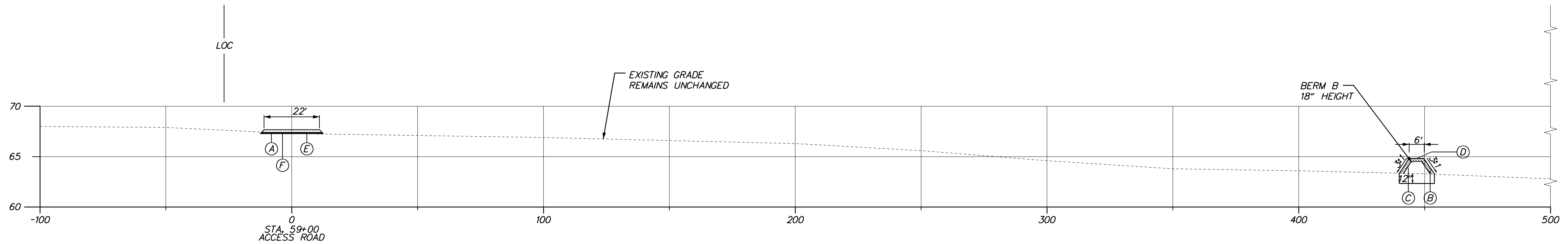
h. THE CONTRACTOR SHALL AGAIN PROVIDE DELDOT THE ADVANCE NOTICE OF THE WORK BEING COMPLETED AND DELDOT SHALL OBTAIN AS-BUILT SURVEY DATA FOR THE CORRECTED WORK AND ANY OTHER AREAS THAT MAY HAVE BEEN DISTURBED WHILE PERFORMING THE CORRECTIVE WORK AS NOTED ABOVE.

1. DELDOT WILL PROVIDE THE AS-BUILT PLAN REFLECTING THE CORRECTIVE WORK TO THE CONTRACTOR WITHIN SEVEN (7) CALENDAR DAYS OF THE FINAL AS-BUILT SURVEY INFORMATION BEING OBTAINED. BOTH DIGITAL AND PAPER FORMATS OF THE AS-BUILT PLAN WILL BE PROVIDED.
 2. IF AREAS NOT CONFORMING TO THE CONTRACT PLANS ARE AGAIN NOTED, THE CONTRACTOR SHALL CORRECT ANY DEFECTIVE AREAS AND THE ABOVE PROCESS SHALL CONTINUE UNTIL APPROVED AS-BUILT CONDITIONS ARE OBTAINED.
17. AS-BUILT TOPOGRAPHIC SURVEY PLANS SHALL BE OBTAINED FOR THE FOLLOWING MILESTONES. AS-BUILT PLANS SHALL BE APPROVED FOR EACH MILESTONE IN THE ORDER PRESENTED BELOW. AS-BUILT SURVEY WILL NOT BE PERFORMED FOR A MILESTONE UNTIL THE AS-BUILT PLAN FOR THE PREVIOUS MILESTONE IS APPROVED.
 1. MILESTONE 1: CONSTRUCTION OF BERMS B & C AND THE FILLING OF THE EXISTING DITCH BETWEEN BERMS B & C, INCLUDING THE STONE CHECK DAMN.
 2. MILESTONE 2: CONSTRUCTION OF BERM A.
 3. MILESTONE 3: ENTIRE SITE AFTER RESTORATION OF THE STABILIZED CONSTRUCTION ENTRANCE, ACCESS ROAD AND ALL DISTURBED AREAS ARE RETURNED TO ORIGINAL GRADES.

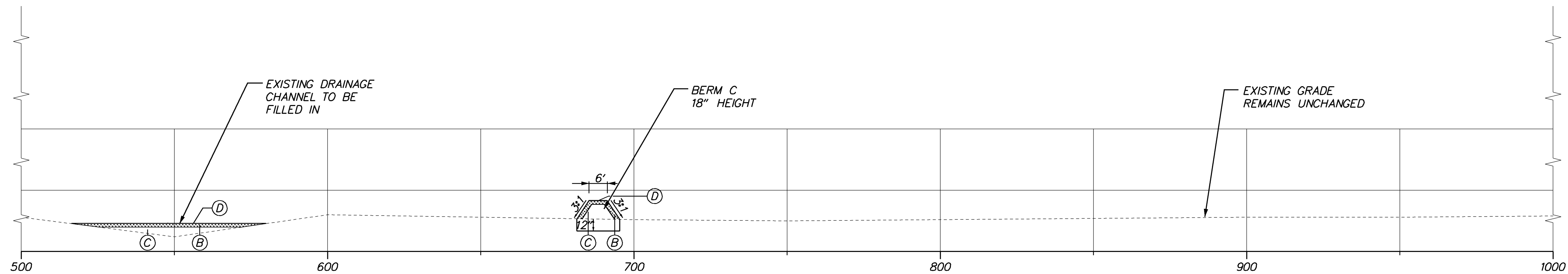
US 301,
NORFOLK SOUTHERN RR TO SR 896

CONTRACT	BRIDGE NO.	X
T200911301	DESIGNED BY: WMM	
COUNTY		
NEW CASTLE	CHECKED BY: JTR	

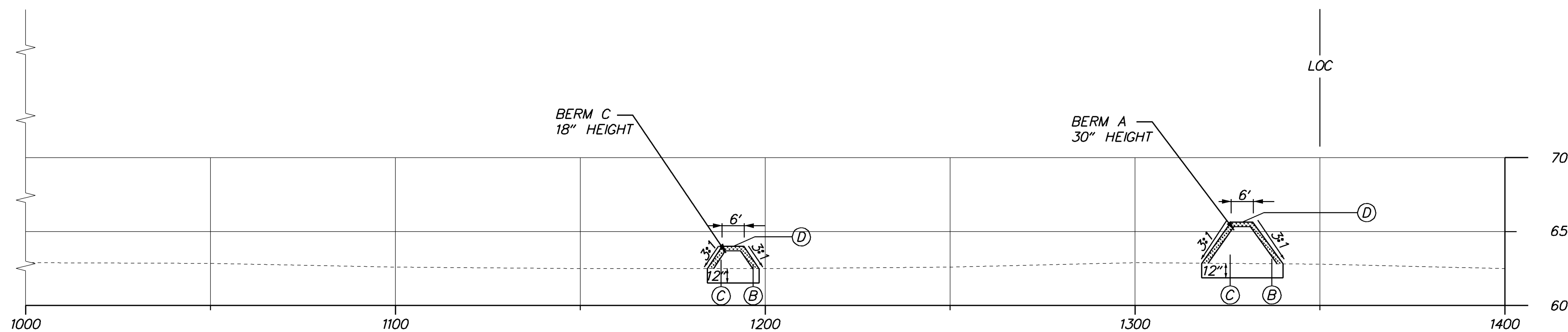
Prepared by: RUMMEL, KLEPPER & KAHL, LLP	
PLEASANTON WETLAND MITIGATION CONSTRUCTION DETAILS	SHEET NO. 223
	TOTAL SHEETS 240



SECTION D-D
 HORIZ. SCALE: 1" = 20'
 VERT. SCALE: 1" = 5'
 STA. 00+00.00 TO STA. 500+00.00



SECTION D-D
 HORIZ. SCALE: 1" = 20'
 VERT. SCALE: 1" = 5'
 STA. 500+00.00 TO STA. 1000+00.00



SECTION D-D
 HORIZ. SCALE: 1" = 20'
 VERT. SCALE: 1" = 5'
 STA. 1000+00.00 TO STA. 1400+00.00

LEGEND

- (A) ITEM 302007- 12" GRADED AGGREGATE BASE COURSE, TYPE B
- (B) ITEM 733002- TOPSOILING, 6" DEPTH
- (C) ITEM 202561- WETLAND MITIGATION BERM
- (D) ITEM 734553- WETLAND MITIGATION GRASS SEEDING
- (E) ITEM 713002- GEOTEXTILE, SEPARATION
- (F) ITEM 734551- NATIVE GRASS SEED: NO MOW MIX

WM-5



ADDENDUMS / REVISIONS

SCALE AS NOTED

US 301,
 NORFOLK SOUTHERN RR TO SR 896

CONTRACT
 T200911301
 COUNTY
 NEW CASTLE

BRIDGE NO.
 DESIGNED BY: WMM
 CHECKED BY: JTR

Prepared by:
 RUMMEL, KLEPPER & KAHL, LLP

PLEASANTON
 WETLAND MITIGATION
 TYPICAL SECTION D-D

SHEET NO.
 224
 TOTAL SHTS.
 240

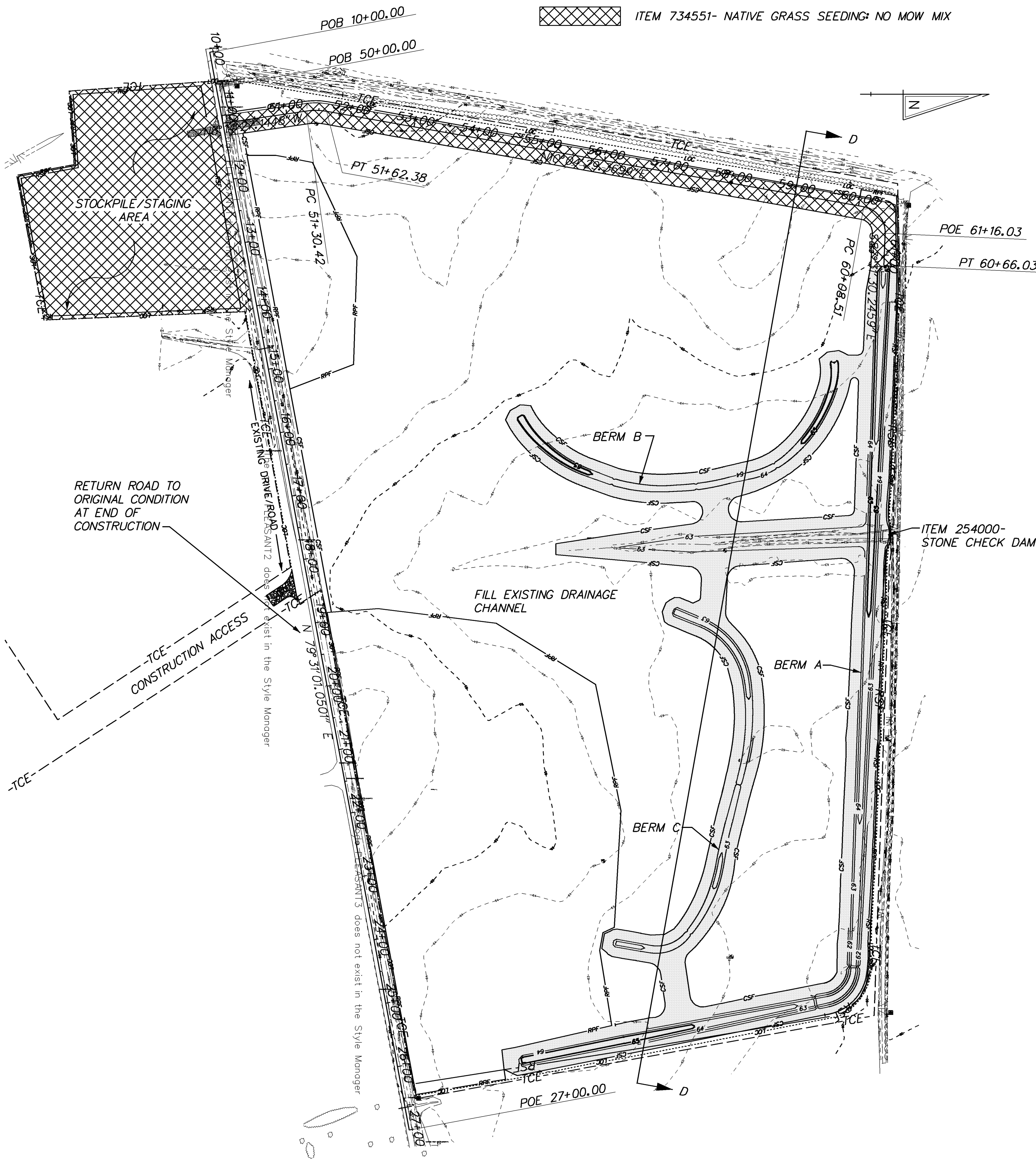
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SEEDING CHART			
SEEDING TYPE	AREA	RATE	QUANTITY
ITEM 734553- WETLAND MITIGATION GRASS SEEDING	4.07 AC. (19,722 S. Y.)	110 LBS/AC	447.7 LBS
ITEM 734551- NATIVE GRASS SEEDING: NO MOW MIX	3.22 AC. (15,597 S. Y.)	125 LBS/AC	402.5 LBS

LEGEND

- RSF — REINFORCED SILT FENCE
— RPF — RESOURCE PROTECTION FENCE
- - - - LOC - - - - LIMIT OF CONSTRUCTION
- ITEM 734553- WETLAND MITIGATION GRASS SEEDING
- ITEM 734551- NATIVE GRASS SEEDING: NO MOW MIX



PLEASANTON MITIGATION CONSTRUCTION SEQUENCE

CONSTRUCTION AT THE PLEASANTON MITIGATION SITE SHALL BEGIN UPON APPROVAL OF THE ENGINEER, APPROXIMATELY 18 MONTHS FOLLOWING TREE PLANTING, CONDUCTED BY OTHERS. THE TREE PLANTING IS CURRENTLY SCHEDULED TO BE COMPLETED BY MAY 30, 2013.

THE CONTRACTOR SHALL NOT DISTURB THE TREE SEEDLINGS OUTSIDE THE VAA, PARTICULARLY WHEN INSTALLING THE RESOURCE PROTECTION FENCE AND CONSTRUCTION SAFETY FENCE. THE CONTRACTOR SHALL NOT MAKE ANY EFFORT TO PRESERVE TREE SEEDLINGS WITHIN THE VAA.

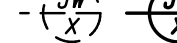
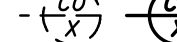
1. INSTALL ITEM 727552- RESOURCE PROTECTION FENCE.
2. INSTALL CONSTRUCTION SAFETY FENCE AND SILT FENCE.
3. INSTALL THE STABILIZED CONSTRUCTION ENTRANCES, THE CONSTRUCTION ACCESS ROAD, AND THE STONE CHECK DAM AS SHOWN ON THE PLANS.
4. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE AND ACCEPTED BY THE ENGINEER BEFORE THE COMMENCEMENT OF ANY FURTHER CONSTRUCTION ACTIVITY.
5. ESTABLISH CENTER LINES FOR ALL BERMS. STRIP 12" OF TOPSOIL FROM THE FOOTPRINT OF ALL BERM LOCATIONS AND STORE 2,486 CY OF TOPSOIL, A QUANTITY SUFFICIENT TO COMPLETE ALL PLEASANTON WETLAND MITIGATION SITE ITEM 733002 - TOPSOILING, 6" DEPTH, IN THE DESIGNATED STOCKPILE/STAGING AREA. STOCKPILED TOPSOIL SHALL ONLY BE USED FOR TOPSOILING THE PLEASANTON WETLAND MITIGATION SITE. EXCESS STRIPPED TOPSOIL SHALL BE REMOVED FROM THE PLEASANTON WETLAND MITIGATION SITE.
6. CONSTRUCT BERM B.
7. FILL DRAINAGE CHANNEL BETWEEN BERMS B AND C.
8. EXTEND SILT FENCE TO FILL GAP ACROSS FORMER DRAINAGE CHANNEL.
9. CONSTRUCT BERM C.
10. SECURE MILESTONE 1 AS-BUILT APPROVAL.
11. CONSTRUCT BERM A FROM SOUTHEAST CORNER OF THE SITE TO THE NORTHWEST CORNER OF THE SITE. SIMULTANEOUSLY REMOVE SILT FENCE AS BERM TO THE SOUTH (OR THE SILT FENCE) IS COMPLETED.
12. SECURE MILESTONE 2 AS-BUILT APPROVAL.
13. SEED BERMS B,C AND A AND FILLED DRAINAGE CHANNEL WITH ITEM 734553 - WETLAND MITIGATION GRASS SEEDING.
14. REMOVE THE STABILIZED CONSTRUCTION ENTRANCES AND CONSTRUCTION ACCESS ROAD.
15. SECURE MILESTONE 3 AS-BUILT APPROVAL.
16. SEED REMOVED CONSTRUCTION ACCESS ROAD AND STOCKPILE STAGING AREA WITH ITEM 734551 - NATIVE GRASS SEEDING: NO MOW MIX.
17. UPON FINAL APPROVAL OF THE ENGINEER, THE CONTRACTOR SHALL REMOVE THE CONSTRUCTION SAFETY FENCE & RESOURCE PROTECTION FENCE BY HAND, AND SEED ANY AREAS DISTURBED DURING REMOVAL WITH ITEM 734553- WETLAND MITIGATION GRASS SEEDING.
18. THE CONTRACTOR SHALL INSTALL THE WETLAND MITIGATION SIGN FURNISHED BY DELDOT. INSTALLATION SHALL BE PAID FOR UNDER ITEM 749690- INSTALLATION OR REMOVAL OF TRAFFIC SIGNS ON MULTIPLE SIGN POSTS.
19. RESTORE EXISTING DRIVE/ROAD AS DIRECTED BY THE ENGINEER.

PLEASANTON MITIGATION LANDSCAPING NOTES

1. ITEM 734553 - WETLAND MITIGATION GRASS SEEDING SHALL BE HAND BROADCAST TO ENSURE BERMS AND THE FILLED DRAINAGE CHANNEL ARE NOT DISTURBED.
2. ITEM 734551- NATIVE GRASS SEEDING: NO MOW MIX. SEEDING SHALL BE PERFORMED WITH LOW-GROUND-PRESSURE EQUIPMENT INCLUDING EQUIPMENT WITH WIDE TIRES, BOGEYS, OR TRACKED MACHINERY AS APPROVED BY THE ENGINEER.
3. SEEDING SHALL OCCUR DURING THE EARLIEST SEEDING WINDOW FOLLOWING MILESTONE 2 AS-BUILT APPROVAL.
4. SEEDING WINDOW: SEEDING SHALL OCCUR BETWEEN SEPTEMBER 1 TO NOVEMBER 15 (FALL SEEDING WINDOW). IF SEEDING IS COMPLETED OUTSIDE OF DESIGNATED TIME PERIOD, THEN EVALUATION AND POSSIBLE ACCEPTANCE OF THE SEEDING WILL OCCUR NO SOONER THAN ONE YEAR AFTER THE COMPLETION OF ALL SEEDING.
5. ITEM 734551- NATIVE GRASS SEED: NO MOW MIX SHALL INCLUDE SOIL DISCING. DISCING EQUIPMENT SHALL PENETRATE THE SOIL TO A MINIMUM DEPTH OF 6". THE COST OF DISCING SHALL BE INCIDENTAL TO ITEM 734551- NATIVE GRASS SEEDING: NO MOW MIX.

SIGNING, STRIPING AND CONDUIT PLAN GENERAL NOTES:

1. THE CONTRACTOR SHALL INSTALL AND REMOVE ALL REGULATORY, WARNING AND SPECIAL SIGNS AND SIGN POSTS WITHIN THE CONTRACT LIMITS, AS SHOWN. DELDOT SHALL FURNISH AND SUPPLY THE STANDARD REGULATORY AND WARNING SIGNS AND STANDARD SIGN POSTS TO THE CONTRACTOR FOR INSTALLATION. FOR COORDINATION AND PICK-UP OF SIGNS AND POSTS THE CONTRACTOR SHALL CONTACT DELDOT'S SIGN SHOP AT (302) 760-2581. ALLOW SIX WEEKS FOR SIGN FABRICATION.
2. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NON-STANDARD SIGNS SHOWN ON THE GUIDE SIGN DIMENSIONS AND DETAILS SHEETS AND ALL STEEL BEAM SIGN SUPPORTS AS SHOWN ON PLANS.
3. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT AND JUNCTION WELLS FOR ITMS DEVICES. DELDOT FORCES TO FURNISH AND INSTALL ALL COMMUNICATION CABLES.
4. INSTALLATION OF GROUND MOUNT SIGNS ON DELDOT SUPPLIED STANDARD SIGN POSTS SHALL BE PAID FOR UNDER ITEM NOS. 749687 - INSTALLATION OR REMOVAL OF TRAFFIC SIGNS) ON SINGLE SIGN POST AND 749690 - INSTALLATION OR REMOVAL OF TRAFFIC SIGNS ON MULTIPLE SIGN POSTS. INSTALLATION OF GROUND MOUNTED SIGNS ON STEEL BEAM SIGN SUPPORTS SHALL BE PAID FOR UNDER ITEM NO. 605501 - GROUND MOUNT BREAKAWAY TYPE SIGN SUPPORTS AND FOUNDATIONS.
5. ALL UNDERGROUND COMMUNICATION CONDUITS FOR ITMS SHALL BE SCHEDULE 80 RIGID POLYVINYL CHLORIDE WHEN INSTALLED BY TRENCHING AND SDR-13.5 HDPE WHEN INSTALLED BY BORING.
6. ALL UNDERGROUND POWER CONDUITS FOR ITMS SHALL BE SCHEDULE 80 RIGID POLYVINYL CHLORIDE UNLESS OTHERWISE NOTED.

ITMS LEGEND	
	- PROPOSED MULTIDUCT ITMS CONDUIT
	- EXISTING ITMS CONDUIT
	- ITMS CONDUIT JUNCTION WELL
	- JUNCTION WELL IDENTIFIER (TYPE) (EXISTING AND PROPOSED)
	- CONDUIT RUN IDENTIFIER (# OF RUN) (EXISTING AND PROPOSED)

ITMS CONDUIT RUN SCHEDULE					AMOUNT AND TYPE OF CABLE/WIRE (SUPPLY AND INSTALLATION BY DELDOT FORCES)
CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	COMMUNICATION CABLES
58	1	4.0 IN	590 FT**	T	
*DENOTES CONDUIT INSTALLED BY DELDOT FORCES					B = BORE, T = TRENCH, O = OPEN CUT
**QUANTITY CONTINUES ON ADJACENT SHEET					

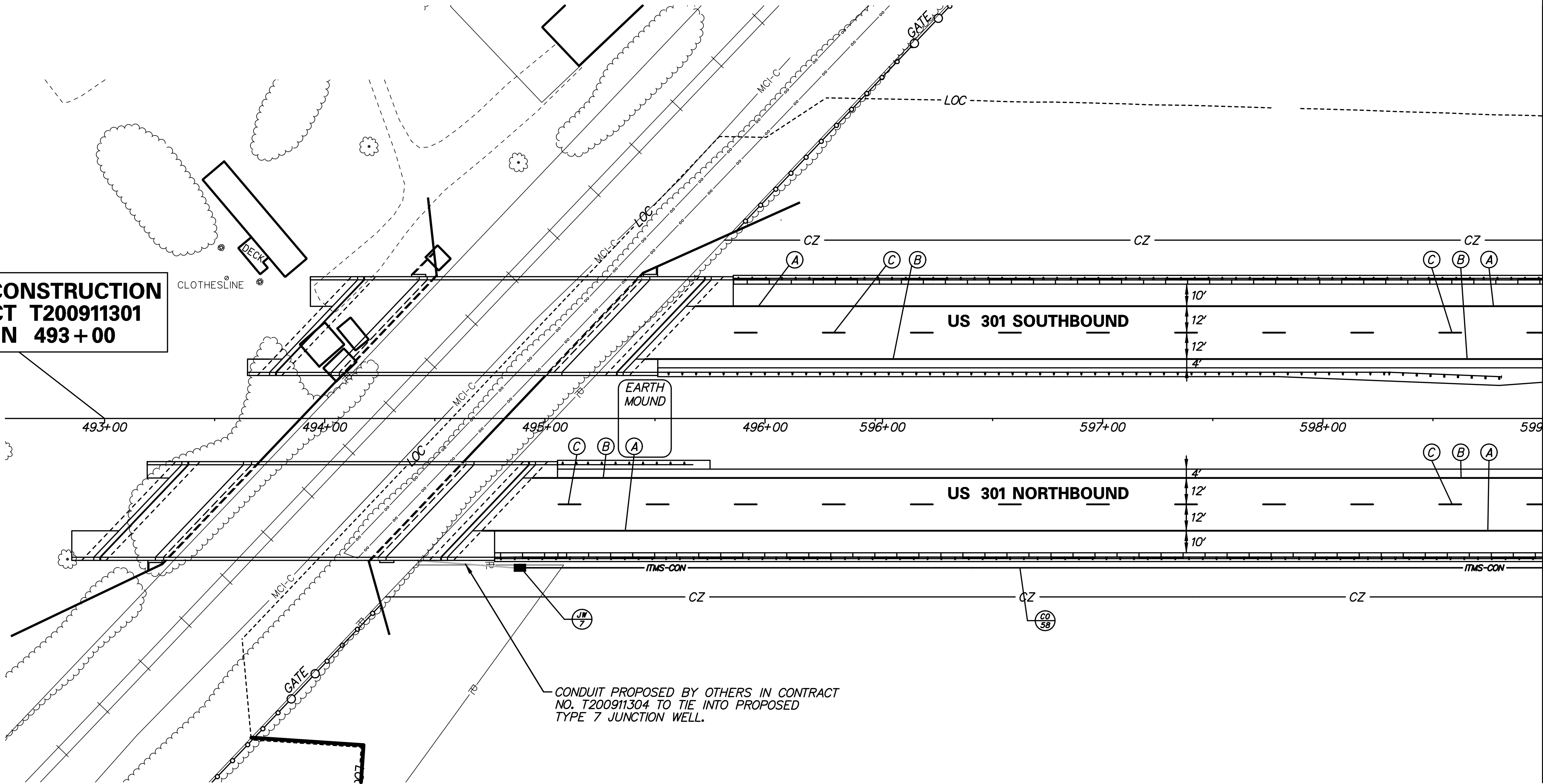
NOTES:

1. INSTALL PLOWABLE RAISED PAVEMENT MARKERS ALONG THE LIMITS OF THE PROPOSED PAVEMENT STRIPING AS PER CHAPTER 3B OF THE DELDOT MUTCD, AS APPLICABLE.
2. INSTALL POST MOUNTED AND/OR ROADSIDE BARRIER MOUNTED DELINEATORS ALONG THE LIMITS OF THE PROPOSED CONSTRUCTION AS PER CHAPTER 3F OF THE DELDOT MUTCD.

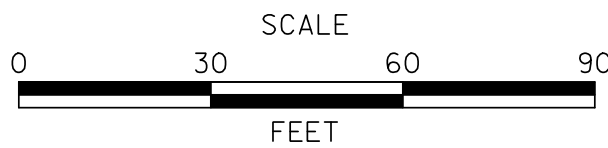
PAVEMENT MARKINGS LEGEND			
SYMBOL	ITEM	QUANTITY	
A	8" SOLID WHITE CONTRAST EPOXY RESIN PAINT, 3" BLACK, 5" WHITE	ITEM 748557	870 LF
		ITEM 748548	870 LF
B	5" SOLID YELLOW EPOXY RESIN PAINT (ITEM 748548)		870 LF
C	8" BROKEN WHITE RETROREFLECTIVE PREFORMED PATTERNED CONTRAST PAVEMENT STRIPING, 10' LINE & 30' GAP, 1.5" BLACK, 5" WHITE, 1.5" BLACK (ITEM 748566)		215 LF

SIGNING LEGEND	
1	REMOVE EXISTING SIGN
2	EXISTING SIGN TO REMAIN
3	PLACE NEW SIGN
4	RENEW EXISTING SIGN
5	REPOSITION EXISTING SIGN

LIMIT OF CONSTRUCTION
CONTRACT T200911301
STATION 493+00



ADDENDUMS / REVISIONS



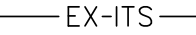
US 301,
NORFOLK SOUTHERN RR TO SR 896

CONTRACT	BRIDGE NO.
T200911301	
COUNTY	DESIGNED BY: J.D.C.
NEW CASTLE	CHECKED BY: J.M.M.

SIGNING, STRIPING &
CONDUIT PLAN

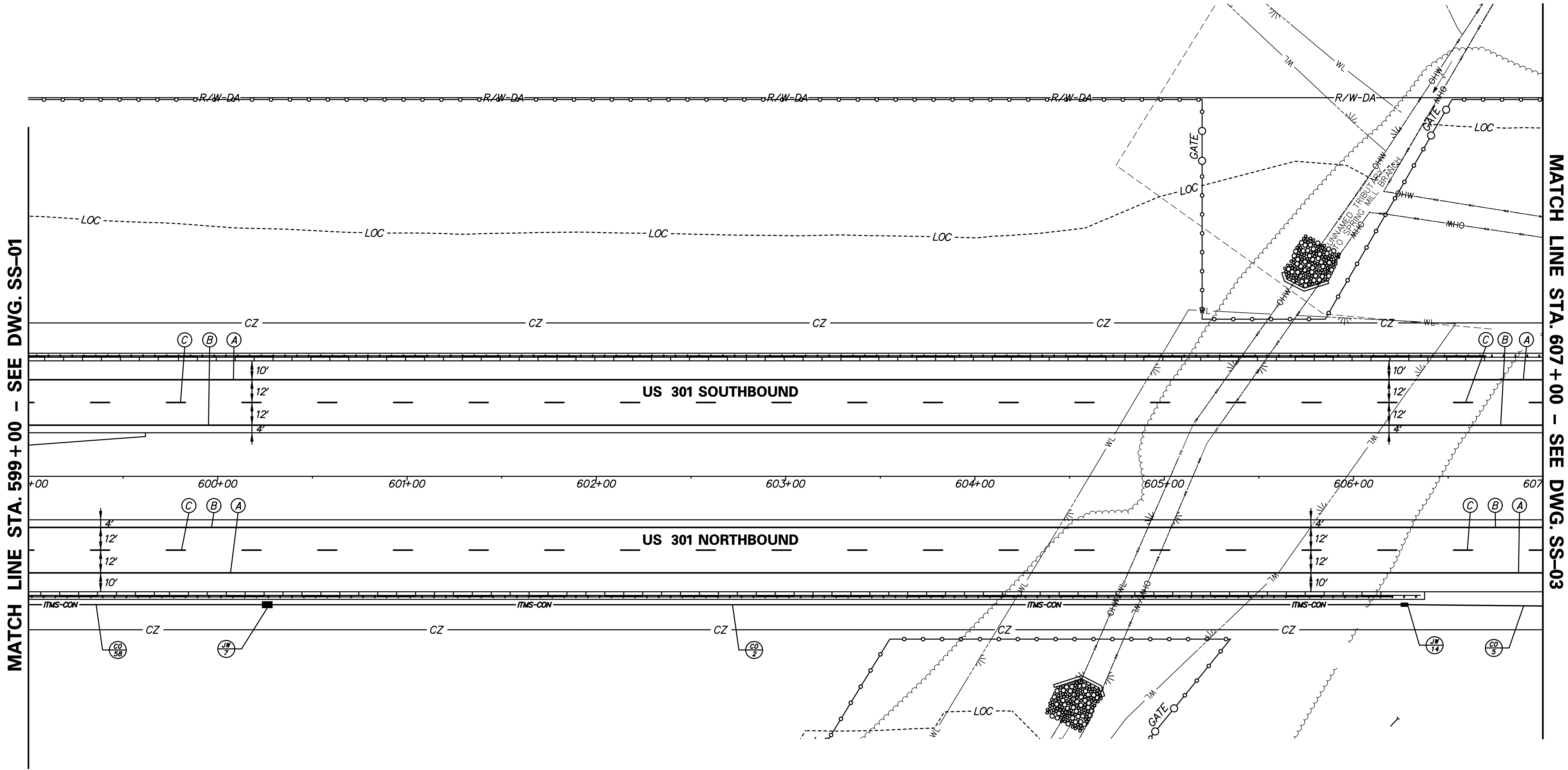
SS-01
SHEET NO.
226
TOTAL SHTS.
240

PAVEMENT MARKINGS LEGEND			
SYMBOL	ITEM		QUANTITY
A	8" SOLID WHITE CONTRAST EPOXY RESIN PAINT, 3" BLACK, 5" WHITE	ITEM 748557	1600 LF
		ITEM 748548	1600 LF
B	5" SOLID YELLOW EPOXY RESIN PAINT (ITEM 748548)		1600 LF
C	8" BROKEN WHITE RETROREFLECTIVE PREFORMED PATTERNED CONTRAST PAVEMENT STRIPING, 10' LINE & 30' GAP, 1.5" BLACK, 5" WHITE, 1.5" BLACK (ITEM 748566)		400 LF

ITMS LEGEND	
	PROPOSED MULTIDUCT ITMS CONDUIT
	EXISTING ITMS CONDUIT
	ITMS CONDUIT JUNCTION WELL
	JUNCTION WELL IDENTIFIER (TYPE) (EXISTING AND PROPOSED)
	CONDUIT RUN IDENTIFIER (# OF RUN) (EXISTING AND PROPOSED)

ITMS CONDUIT RUN SCHEDULE					
CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE (SUPPLY AND INSTALLATION BY DELDOT FORCES)
2	1	4.0 IN	600 FT	T	COMMUNICATION CABLES
5	1	4.0 IN	600 FT**	T	COMMUNICATION CABLES
58	1	4.0 IN	590 FT**	T	COMMUNICATION CABLES
*DENOTES CONDUIT INSTALLED BY DELDOT FORCES B = BORE, T = TRENCH, O = OPEN CUT					
**QUANTITY CONTINUES ON ADJACENT SHEET					
NOTES:					
1. INSTALL PLOWABLE RAISED PAVEMENT MARKERS ALONG THE LIMITS OF THE PROPOSED PAVEMENT STRIPING AS PER CHAPTER 3B OF THE DELDOT MUTCD, AS APPLICABLE.					
2. INSTALL POST MOUNTED AND/OR ROADSIDE BARRIER MOUNTED DELINEATORS ALONG THE LIMITS OF THE PROPOSED CONSTRUCTION AS PER CHAPTER 3F OF THE DELDOT MUTCD.					

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN



PAVEMENT MARKINGS LEGEND			
SYMBOL	ITEM		QUANTITY
A	8" SOLID WHITE CONTRAST EPOXY RESIN PAINT, 3" BLACK, 5" WHITE	ITEM 748557	1800 LF
		ITEM 748548	1800 LF
B	5" SOLID YELLOW EPOXY RESIN PAINT (ITEM 748548)		1800 LF
C	8" BROKEN WHITE RETROREFLECTIVE PREFORMED PATTERNED CONTRAST PAVEMENT STRIPING, 10' LINE & 30' GAP, 1.5" BLACK, 5" WHITE, 1.5" BLACK (ITEM 748566)		450 LF

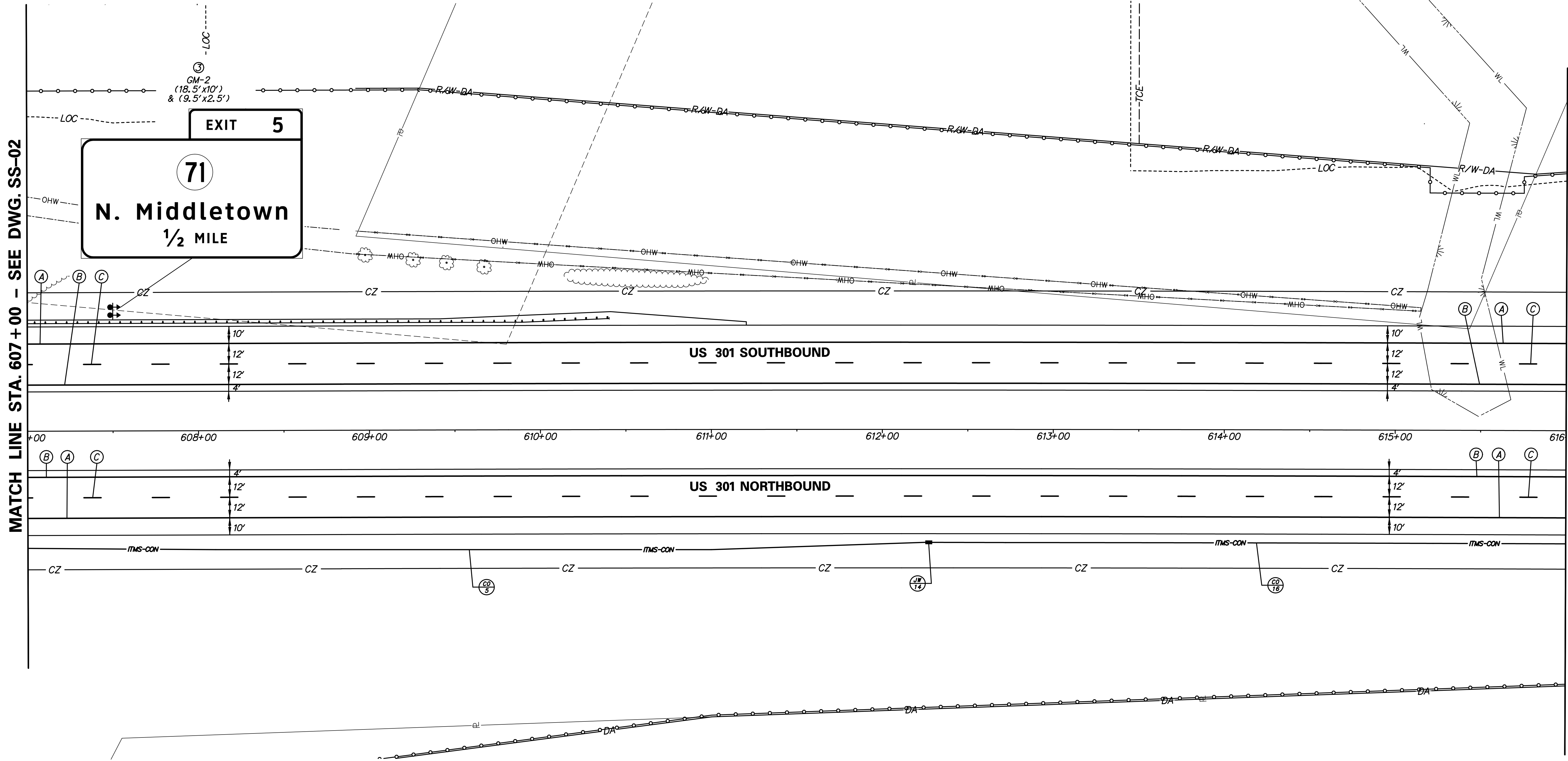
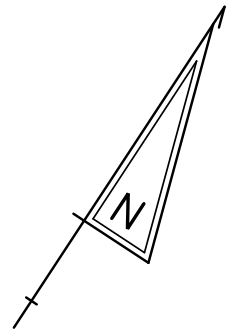
ITMS LEGEND	
ITMS-CON	PROPOSED MULTIDUCT ITMS CONDUIT
EX-ITS	EXISTING ITMS CONDUIT
■ ■ ■	ITMS CONDUIT JUNCTION WELL
JW X	JUNCTION WELL IDENTIFIER (TYPE) (EXISTING AND PROPOSED)
CO X	CONDUIT RUN IDENTIFIER (# OF RUN) (EXISTING AND PROPOSED)

SIGNING LEGEND	
1	REMOVE EXISTING SIGN
2	EXISTING SIGN TO REMAIN
3	PLACE NEW SIGN
4	RENEW EXISTING SIGN
5	REPOSITION EXISTING SIGN

ITMS CONDUIT RUN SCHEDULE					
CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE (SUPPLY AND INSTALLATION BY DELDOT FORCES)
5	1	4.0 IN	600 FT**	T	COMMUNICATION CABLES
16	1	4.0 IN	600 FT**	T	COMMUNICATION CABLES

*DENOTES CONDUIT INSTALLED BY DELDOT FORCES B = BORE, T = TRENCH, O = OPEN CUT
**QUANTITY CONTINUES ON ADJACENT SHEET

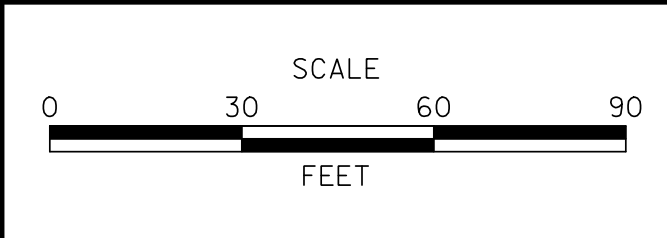
- NOTES:
1. INSTALL PLOWABLE RAISED PAVEMENT MARKERS ALONG THE LIMITS OF THE PROPOSED PAVEMENT STRIPING AS PER CHAPTER 3B OF THE DELDOT MUTCD, AS APPLICABLE.
 2. INSTALL POST MOUNTED AND/OR ROADSIDE BARRIER MOUNTED DELINEATORS ALONG THE LIMITS OF THE PROPOSED CONSTRUCTION AS PER CHAPTER 3F OF THE DELDOT MUTCD.



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ADDENDUMS / REVISIONS	



US 301,
NORFOLK SOUTHERN RR TO SR 896

CONTRACT	BRIDGE NO.
T200911301	
COUNTY	DESIGNED BY: J.D.C.
NEW CASTLE	CHECKED BY: J.M.M.

SIGNING, STRIPING &
CONDUIT PLAN

SS-03
SHEET NO.
228
TOTAL SHTS.
240

PAVEMENT MARKINGS LEGEND			
SYMBOL	ITEM		QUANTITY
A	8" SOLID WHITE CONTRAST EPOXY RESIN PAINT, 3" BLACK, 5" WHITE	ITEM 748557	1600 LF
		ITEM 748548	1600 LF
B	5" SOLID YELLOW EPOXY RESIN PAINT (ITEM 748548)		1600 LF
C	8" BROKEN WHITE RETROREFLECTIVE PREFORMED PATTERNED CONTRAST PAVEMENT STRIPING, 10' LINE & 30' GAP, 1.5" BLACK, 5" WHITE, 1.5" BLACK (ITEM 748566)		400 LF

ITMS LEGEND	
ITMS-CON	PROPOSED MULTIDUCT ITMS CONDUIT
EX-ITS	EXISTING ITMS CONDUIT
ITMS CONDUIT JUNCTION WELL	
JW	JUNCTION WELL IDENTIFIER (TYPE) (EXISTING AND PROPOSED)
CO	CONDUIT RUN IDENTIFIER (# OF RUN) (EXISTING AND PROPOSED)

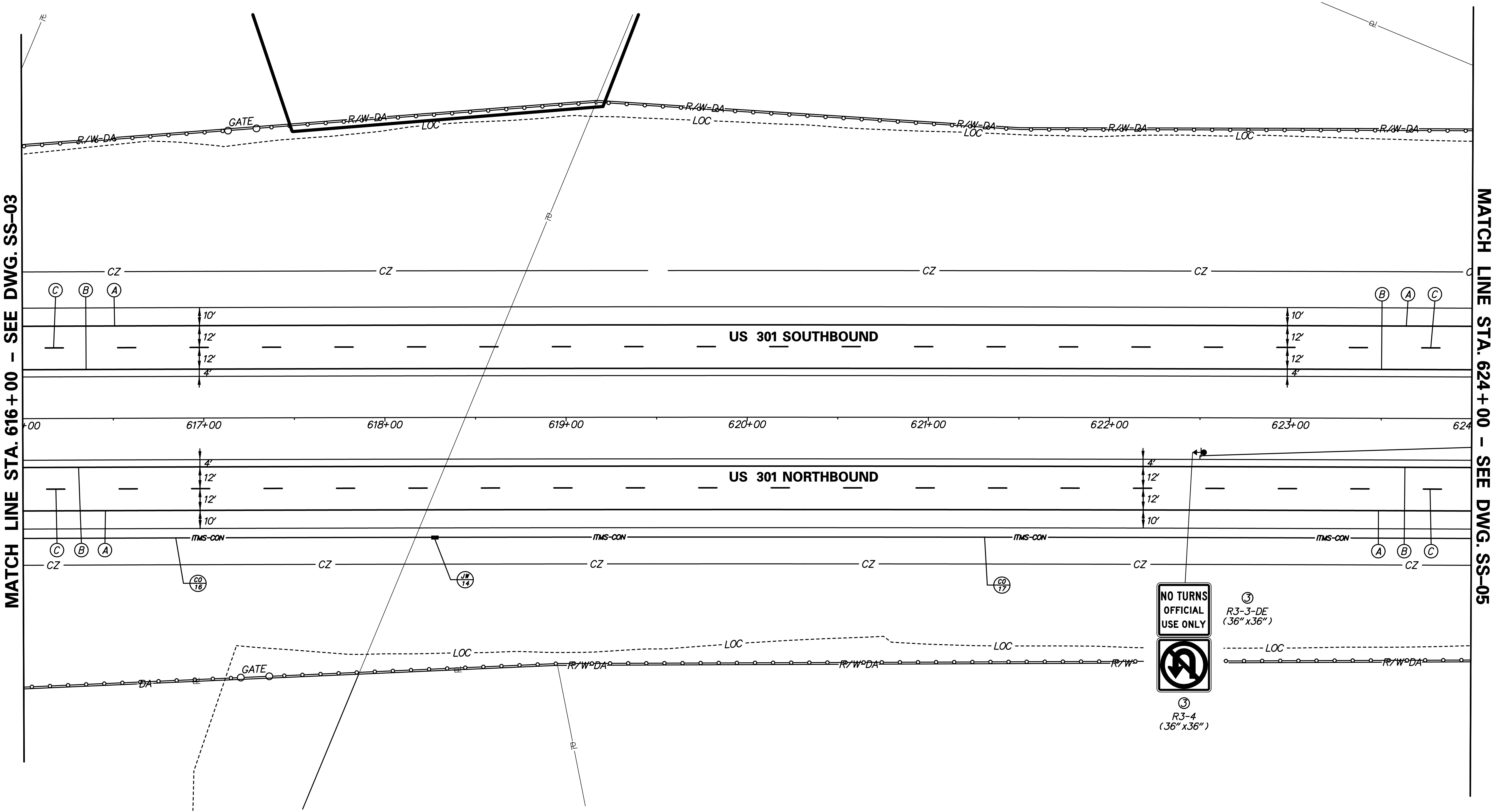
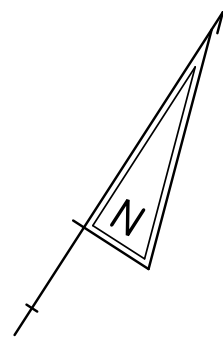
SIGNING LEGEND	
1	REMOVE EXISTING SIGN
2	EXISTING SIGN TO REMAIN
3	PLACE NEW SIGN
4	RENEW EXISTING SIGN
5	REPOSITION EXISTING SIGN

ITMS CONDUIT RUN SCHEDULE				
CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O
16	1	4.0 IN	600 FT**	T
17	1	4.0 IN	600 FT**	T

AMOUNT AND TYPE OF CABLE/WIRE (SUPPLY AND INSTALLATION BY DELDOT FORCES)
COMMUNICATION CABLES
COMMUNICATION CABLES

*DENOTES CONDUIT INSTALLED BY DELDOT FORCES
**QUANTITY CONTINUES ON ADJACENT SHEET
B = BORE, T = TRENCH, O = OPEN CUT

- NOTES:
1. INSTALL PLOWABLE RAISED PAVEMENT MARKERS ALONG THE LIMITS OF THE PROPOSED PAVEMENT STRIPING AS PER CHAPTER 3B OF THE DELDOT MUTCD, AS APPLICABLE.
 2. INSTALL POST MOUNTED AND/OR ROADSIDE BARRIER MOUNTED DELINEATORS ALONG THE LIMITS OF THE PROPOSED CONSTRUCTION AS PER CHAPTER 3F OF THE DELDOT MUTCD.



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 DELAWARE DEPARTMENT OF TRANSPORTATION										ADDENDUMS / REVISIONS <table><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>												0306090 SCALE FEET		US 301, NORFOLK SOUTHERN RR TO SR 896			<table><tr><td>CONTRACT</td><td>BRIDGE NO.</td></tr><tr><td>T200911301</td><td> </td></tr><tr><td>COUNTY</td><td>DESIGNED BY: J.D.C.</td></tr><tr><td>NEW CASTLE</td><td>CHECKED BY: J.M.M.</td></tr></table>		CONTRACT	BRIDGE NO.	T200911301		COUNTY	DESIGNED BY: J.D.C.	NEW CASTLE	CHECKED BY: J.M.M.	SIGNING, STRIPING & CONDUIT PLAN		SS-04 <table><tr><td>SHEET NO.</td></tr><tr><td>229</td></tr><tr><td>TOTAL SHTS.</td></tr><tr><td>240</td></tr></table>		SHEET NO.	229	TOTAL SHTS.	240
CONTRACT	BRIDGE NO.																																											
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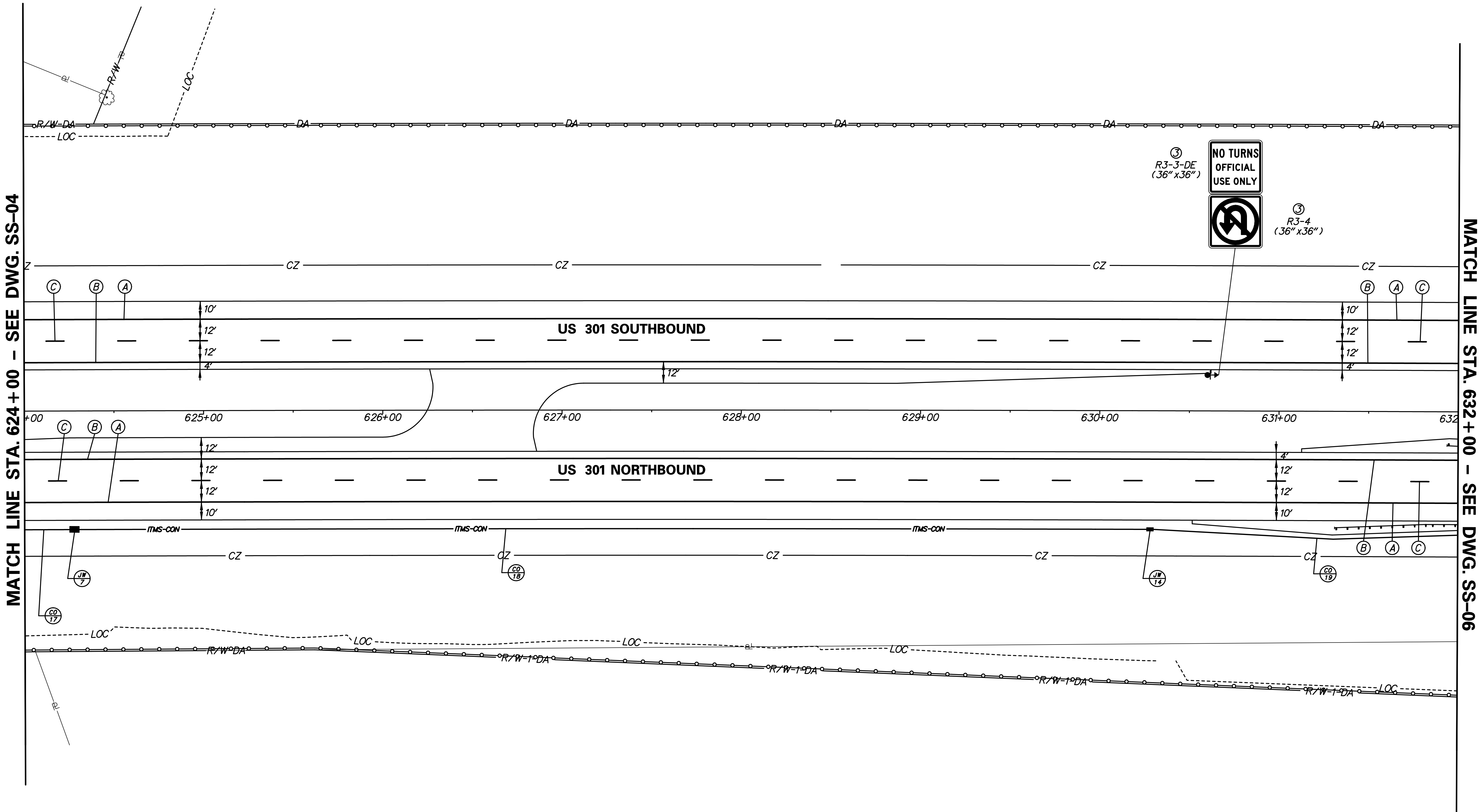
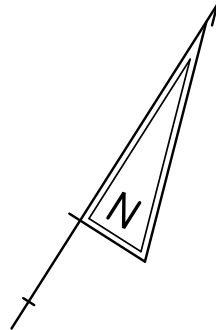
PAVEMENT MARKINGS LEGEND			
SYMBOL	ITEM		QUANTITY
A	8" SOLID WHITE CONTRAST EPOXY RESIN PAINT, 3" BLACK, 5" WHITE	ITEM 748557	1600 LF
		ITEM 748548	1600 LF
B	5" SOLID YELLOW EPOXY RESIN PAINT (ITEM 748548)		1600 LF
C	8" BROKEN WHITE RETROREFLECTIVE PREFORMED PATTERNED CONTRAST PAVEMENT STRIPING, 10' LINE & 30' GAP, 1.5" BLACK, 5" WHITE, 1.5" BLACK (ITEM 748566)		400 LF

ITMS LEGEND	
	PROPOSED MULTIDUCT ITMS CONDUIT
	EXISTING ITMS CONDUIT
	ITMS CONDUIT JUNCTION WELL
	JUNCTION WELL IDENTIFIER (TYPE) (EXISTING AND PROPOSED)
	CONDUIT RUN IDENTIFIER (# OF RUN) (EXISTING AND PROPOSED)

SIGNING LEGEND	
1	REMOVE EXISTING SIGN
2	EXISTING SIGN TO REMAIN
3	PLACE NEW SIGN
4	RENEW EXISTING SIGN
5	REPOSITION EXISTING SIGN

ITMS CONDUIT RUN SCHEDULE				
CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O
17	1	4.0 IN	600 FT**	T
18	1	4.0 IN	600 FT	T
19	1	4.0 IN	570 FT**	T
*DENOTES CONDUIT INSTALLED BY DELDOT FORCES B = BORE, T = TRENCH, O = OPEN CUT				
**QUANTITY CONTINUES ON ADJACENT SHEET				
AMOUNT AND TYPE OF CABLE/WIRE (SUPPLY AND INSTALLATION BY DELDOT FORCES)				
COMMUNICATION CABLES				
COMMUNICATION CABLES				
COMMUNICATION CABLES				

NOTES:
1. INSTALL PLOWABLE RAISED PAVEMENT MARKERS ALONG THE LIMITS OF THE PROPOSED PAVEMENT STRIPING AS PER CHAPTER 3B OF THE DELDOT MUTCD, AS APPLICABLE.
2. INSTALL POST MOUNTED AND/OR ROADSIDE BARRIER MOUNTED DELINEATORS ALONG THE LIMITS OF THE PROPOSED CONSTRUCTION AS PER CHAPTER 3F OF THE DELDOT MUTCD.



DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	

SCALE

0 30 60 90

FEET

US 301,
NORFOLK SOUTHERN RR TO SR 896

CONTRACT	BRIDGE NO.
T200911301	
COUNTY	DESIGNED BY: J.D.C.
NEW CASTLE	CHECKED BY: J.M.M.

SIGNING, STRIPING & CONDUIT PLAN

SS-05
SHEET NO.
230
TOTAL SHTS.
240

PAVEMENT MARKINGS LEGEND			
SYMBOL	ITEM		QUANTITY
A	8" SOLID WHITE CONTRAST EPOXY RESIN PAINT, 3" BLACK, 5" WHITE	ITEM 748557	1600 LF
		ITEM 748548	1600 LF
B	5" SOLID YELLOW EPOXY RESIN PAINT (ITEM 748548)		1600 LF
C	8" BROKEN WHITE RETROREFLECTIVE PREFORMED PATTERNED CONTRAST PAVEMENT STRIPING, 10' LINE & 30' GAP, 1.5" BLACK, 5" WHITE, 1.5" BLACK (ITEM 748566)		400 LF

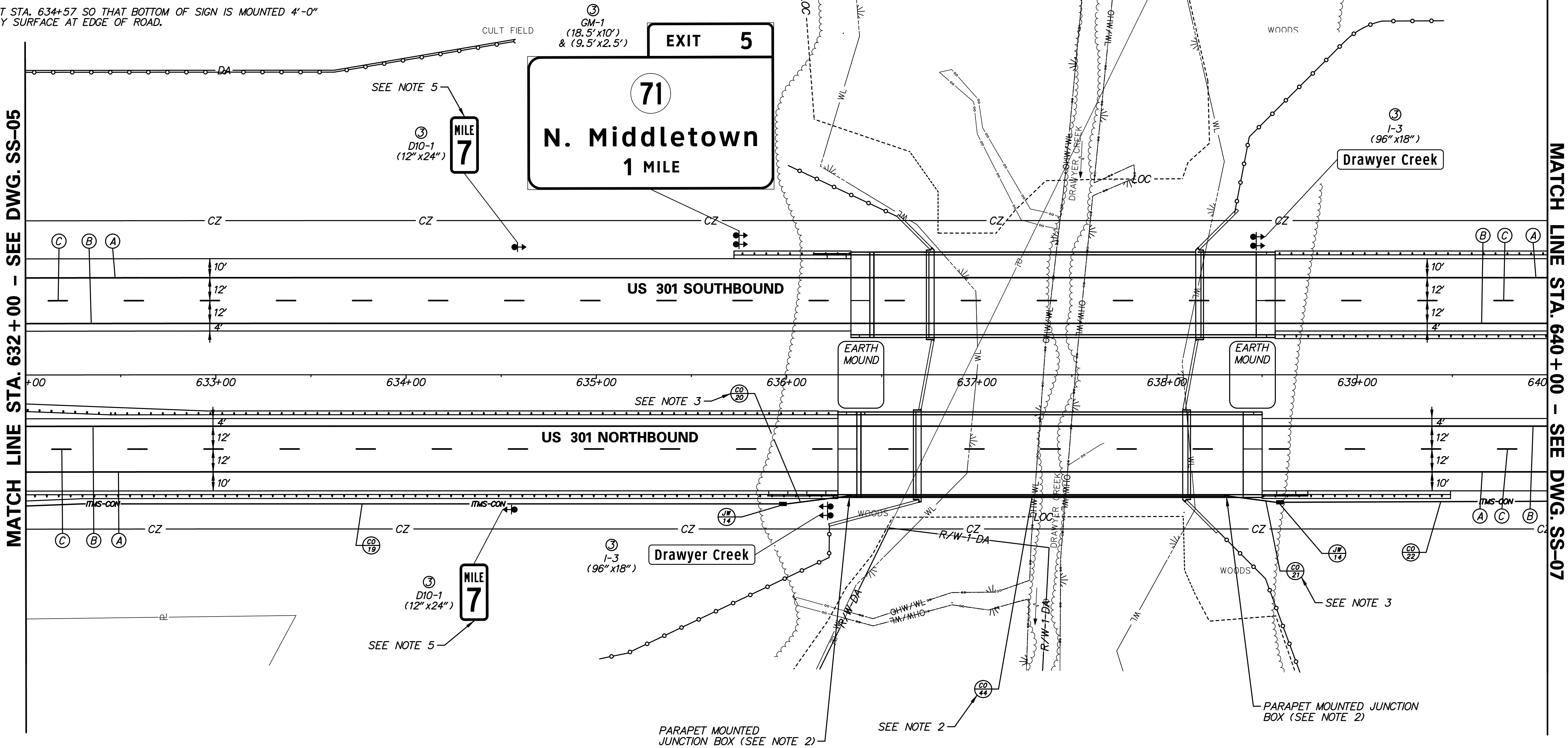
ITMS LEGEND	
ITMS-CON	PROPOSED MULTIDUCT ITMS CONDUIT
EX-ITS	EXISTING ITMS CONDUIT
■ ■ ■	ITMS CONDUIT JUNCTION WELL
JW X	JUNCTION WELL IDENTIFIER (TYPE) (EXISTING AND PROPOSED)
CO X	CONDUIT RUN IDENTIFIER (# OF RUN) (EXISTING AND PROPOSED)

SIGNING LEGEND	
1	REMOVE EXISTING SIGN
2	EXISTING SIGN TO REMAIN
3	PLACE NEW SIGN
4	RENEW EXISTING SIGN
5	REPOSITION EXISTING SIGN

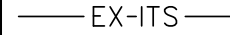
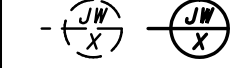
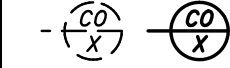
ITMS CONDUIT RUN SCHEDULE					
CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE (SUPPLY AND INSTALLATION BY DELDOT FORCES)
19	1	4.0 IN	570 FT**	T	COMMUNICATION CABLES
20	1	4.0 IN	32 FT	T	COMMUNICATION CABLES
21	1	4.0 IN	26 FT	T	COMMUNICATION CABLES
22	1	4.0 IN	245 FT**	T	COMMUNICATION CABLES
44	1	4.0 IN	200 FT	-	COMMUNICATION CABLES

*DENOTES CONDUIT INSTALLED BY DELDOT FORCES B = BORE, T = TRENCH, O = OPEN CUT
**QUANTITY CONTINUES ON ADJACENT SHEET

- NOTES:
1. INSTALL PLOWABLE RAISED PAVEMENT MARKERS ALONG THE LIMITS OF THE PROPOSED PAVEMENT STRIPING AS PER CHAPTER 3B OF THE DELDOT MUTCD, AS APPLICABLE.
 2. REFER TO BRIDGE 1-467 PLANS FOR DETAILS OF INSTALLATION OF CONDUIT AND JUNCTION BOXES WITHIN BRIDGE PARAPET STRUCTURE. INSTALLATION OF CONDUIT WITHIN STRUCTURE WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT WILL BE INCIDENTAL TO ITEM 745604 - FURNISH AND INSTALL UP TO 4" SCHEDULE 80 PVC CONDUIT (TRENCH). FURNISHING AND INSTALLING JUNCTION BOXES WITHIN STRUCTURE TO BE PAID FOR UNDER ITEM 746596 - JUNCTION BOX ON STRUCTURE.
 3. CONDUIT TO TIE INTO BRIDGE END POST. SEE CONDUIT TRANSITION FROM BRIDGE END DETAIL ON BRIDGE 1-467 PLANS.
 4. INSTALL POST MOUNTED AND/OR ROADSIDE BARRIER MOUNTED DELINEATORS ALONG THE LIMITS OF THE PROPOSED CONSTRUCTION AS PER CHAPTER 3F OF THE DELDOT MUTCD.
 5. INSTALL SIGN AT STA. 634+57 SO THAT BOTTOM OF SIGN IS MOUNTED 4'-0" ABOVE ROADWAY SURFACE AT EDGE OF ROAD.



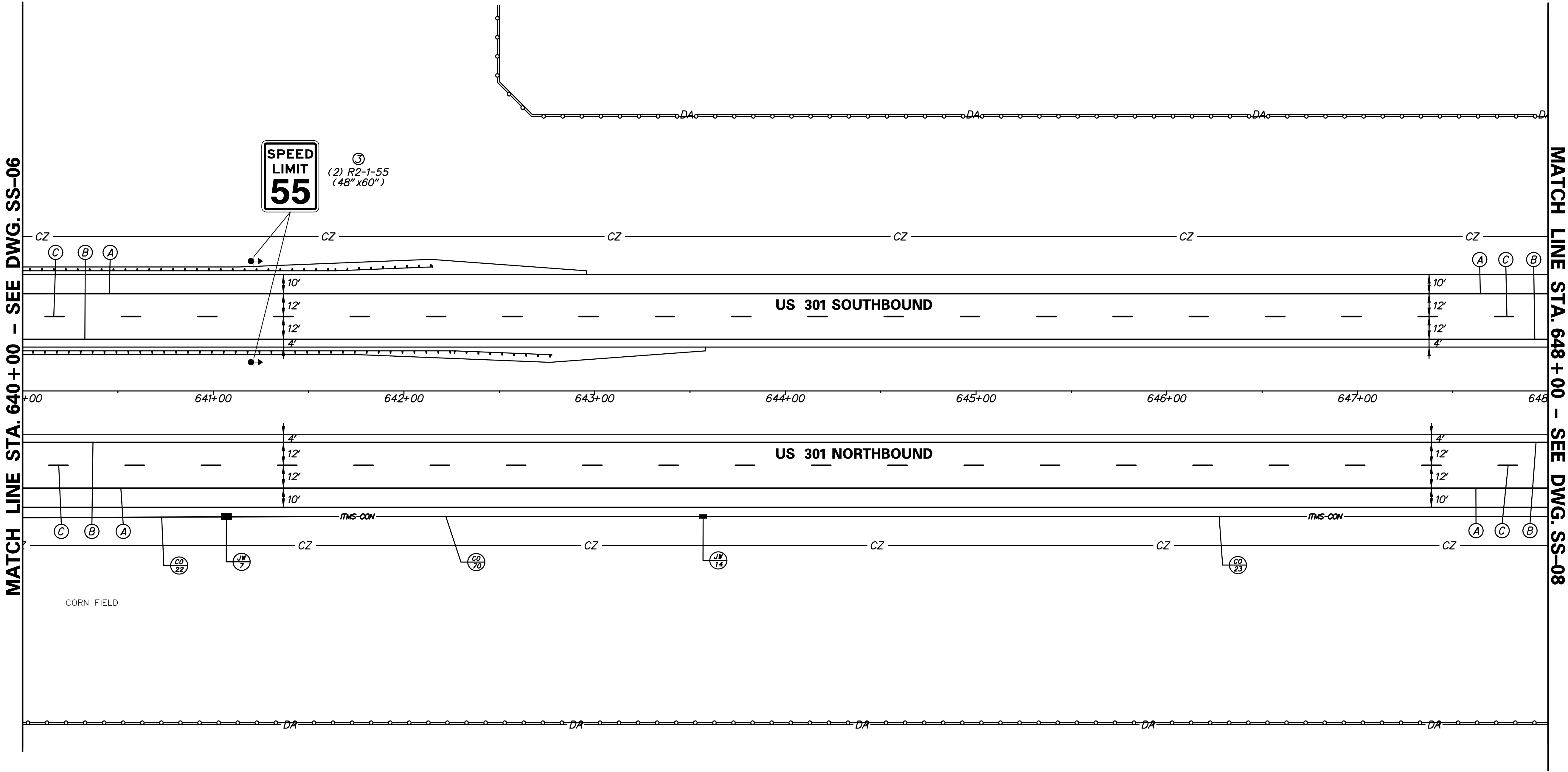
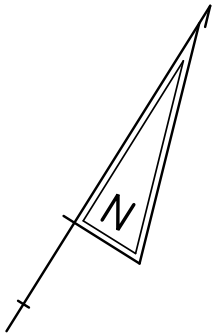
PAVEMENT MARKINGS LEGEND			
SYMBOL	ITEM		QUANTITY
A	8" SOLID WHITE CONTRAST EPOXY RESIN PAINT, 3" BLACK, 5" WHITE	ITEM 748557	1600 LF
		ITEM 748548	1600 LF
B	5" SOLID YELLOW EPOXY RESIN PAINT (ITEM 748548)		1600 LF
C	8" BROKEN WHITE RETROREFLECTIVE PREFORMED PATTERNED CONTRAST PAVEMENT STRIPING, 10' LINE & 30' GAP, 1.5" BLACK, 5" WHITE, 1.5" BLACK (ITEM 748566)		400 LF

ITMS LEGEND	
	PROPOSED MULTIDUCT ITMS CONDUIT
	EXISTING ITMS CONDUIT
	ITMS CONDUIT JUNCTION WELL
	JUNCTION WELL IDENTIFIER (TYPE) (EXISTING AND PROPOSED)
	CONDUIT RUN IDENTIFIER (# OF RUN) (EXISTING AND PROPOSED)

SIGNING LEGEND	
①	REMOVE EXISTING SIGN
②	EXISTING SIGN TO REMAIN
③	PLACE NEW SIGN
④	RENEW EXISTING SIGN
⑤	REPOSITION EXISTING SIGN

ITMS CONDUIT RUN SCHEDULE					
CO#	* OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE (SUPPLY AND INSTALLATION BY DELDOT FORCES)
22	1	4.0 IN	245 FT**	T	COMMUNICATION CABLES
23	1	4.0 IN	600 FT**	T	COMMUNICATION CABLES
70	1	4.0 IN	250 FT	T	COMMUNICATION CABLES
*DENOTES CONDUIT INSTALLED BY DELDOT FORCES					
**QUANTITY CONTINUES ON ADJACENT SHEET					
B = BORE, T = TRENCH, O = OPEN CUT					

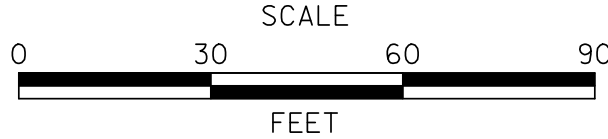
- NOTES:
1. INSTALL PLOWABLE RAISED PAVEMENT MARKERS ALONG THE LIMITS OF THE PROPOSED PAVEMENT STRIPING AS PER CHAPTER 3B OF THE DELDOT MUTCD, AS APPLICABLE.
 2. INSTALL POST MOUNTED AND/OR ROADSIDE BARRIER MOUNTED DELINEATORS ALONG THE LIMITS OF THE PROPOSED CONSTRUCTION AS PER CHAPTER 3F OF THE DELDOT MUTCD.



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ADDENDUMS / REVISIONS	



US 301,
NORFOLK SOUTHERN RR TO SR 896

CONTRACT	BRIDGE NO.	SIGNING, STRIPING & CONDUIT PLAN
T200911301	DESIGNED BY: J.D.C.	
COUNTY	CHECKED BY: J.M.M.	
NEW CASTLE		

SS-07
SHEET NO.
232
TOTAL SHTS.
240

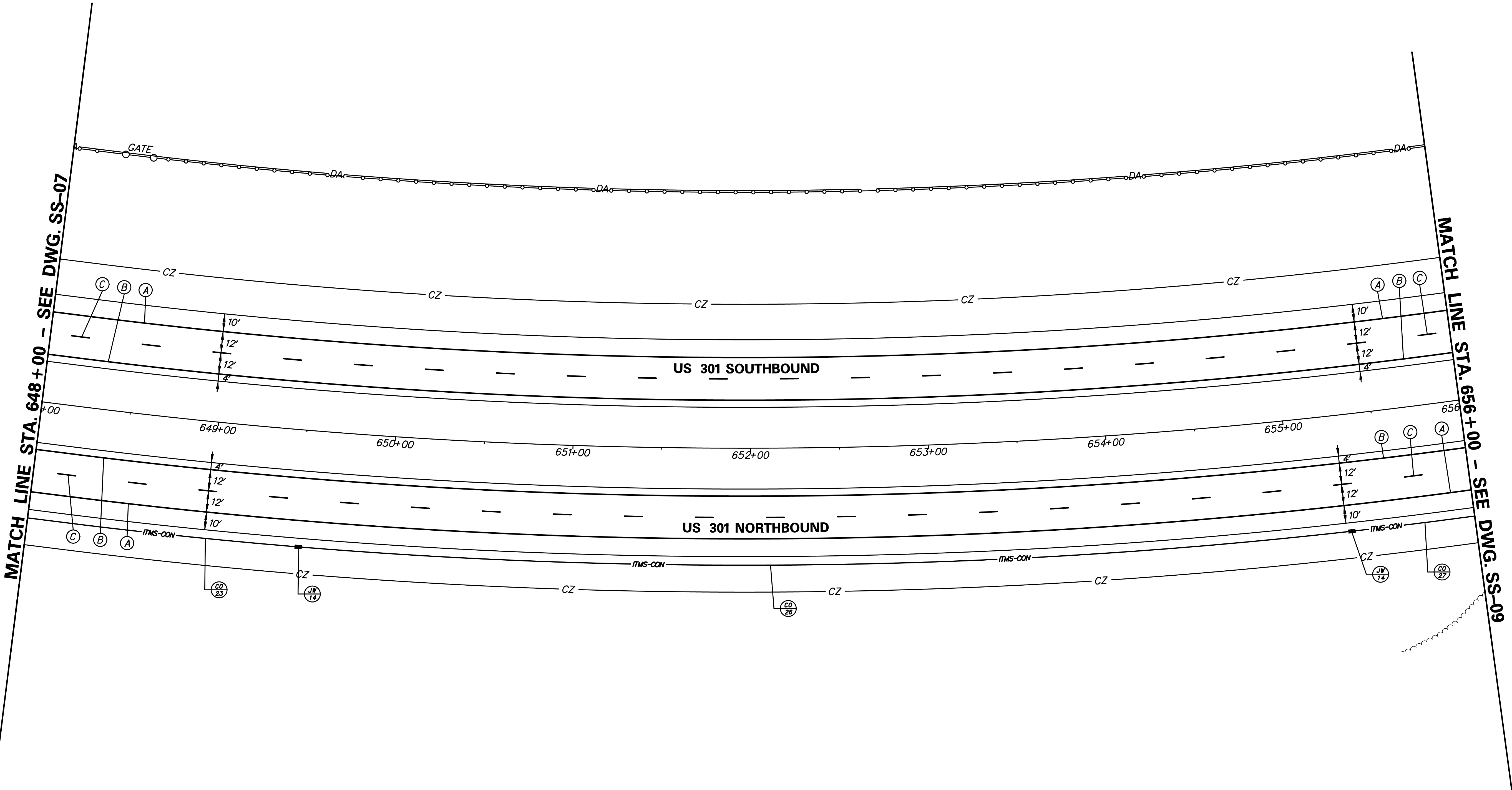
PAVEMENT MARKINGS LEGEND			
SYMBOL	ITEM		QUANTITY
A	8" SOLID WHITE CONTRAST EPOXY RESIN PAINT, 3" BLACK, 5" WHITE	ITEM 748557	1600 LF
		ITEM 748548	1600 LF
B	5" SOLID YELLOW EPOXY RESIN PAINT (ITEM 748548)		1600 LF
C	8" BROKEN WHITE RETROREFLECTIVE PREFORMED PATTERNED CONTRAST PAVEMENT STRIPING, 10' LINE & 30' GAP, 1.5" BLACK, 5" WHITE, 1.5" BLACK (ITEM 748566)		400 LF

ITMS LEGEND	
	PROPOSED MULTIDUCT ITMS CONDUIT
	EXISTING ITMS CONDUIT
	ITMS CONDUIT JUNCTION WELL
	JUNCTION WELL IDENTIFIER (TYPE) (EXISTING AND PROPOSED)
	CONDUIT RUN IDENTIFIER (# OF RUN) (EXISTING AND PROPOSED)

SIGNING LEGEND	
1	REMOVE EXISTING SIGN
2	EXISTING SIGN TO REMAIN
3	PLACE NEW SIGN
4	RENEW EXISTING SIGN
5	REPOSITION EXISTING SIGN

ITMS CONDUIT RUN SCHEDULE					
CO#	* OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE (SUPPLY AND INSTALLATION BY DELDOT FORCES)
23	1	4.0 IN	600 FT**	T	COMMUNICATION CABLES
26	1	4.0 IN	600 FT	T	COMMUNICATION CABLES
27	1	4.0 IN	450 FT**	T	COMMUNICATION CABLES
*DENOTES CONDUIT INSTALLED BY DELDOT FORCES B = BORE, T = TRENCH, O = OPEN CUT					
**QUANTITY CONTINUES ON ADJACENT SHEET					

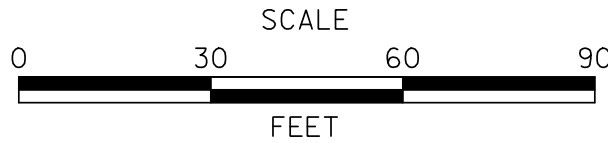
- NOTES:
1. INSTALL PLOWABLE RAISED PAVEMENT MARKERS ALONG THE LIMITS OF THE PROPOSED PAVEMENT STRIPING AS PER CHAPTER 3B OF THE DELDOT MUTCD, AS APPLICABLE.
 2. INSTALL POST MOUNTED AND/OR ROADSIDE BARRIER MOUNTED DELINEATORS ALONG THE LIMITS OF THE PROPOSED CONSTRUCTION AS PER CHAPTER 3F OF THE DELDOT MUTCD.



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ADDENDUMS / REVISIONS



US 301,
NORFOLK SOUTHERN RR TO SR 896

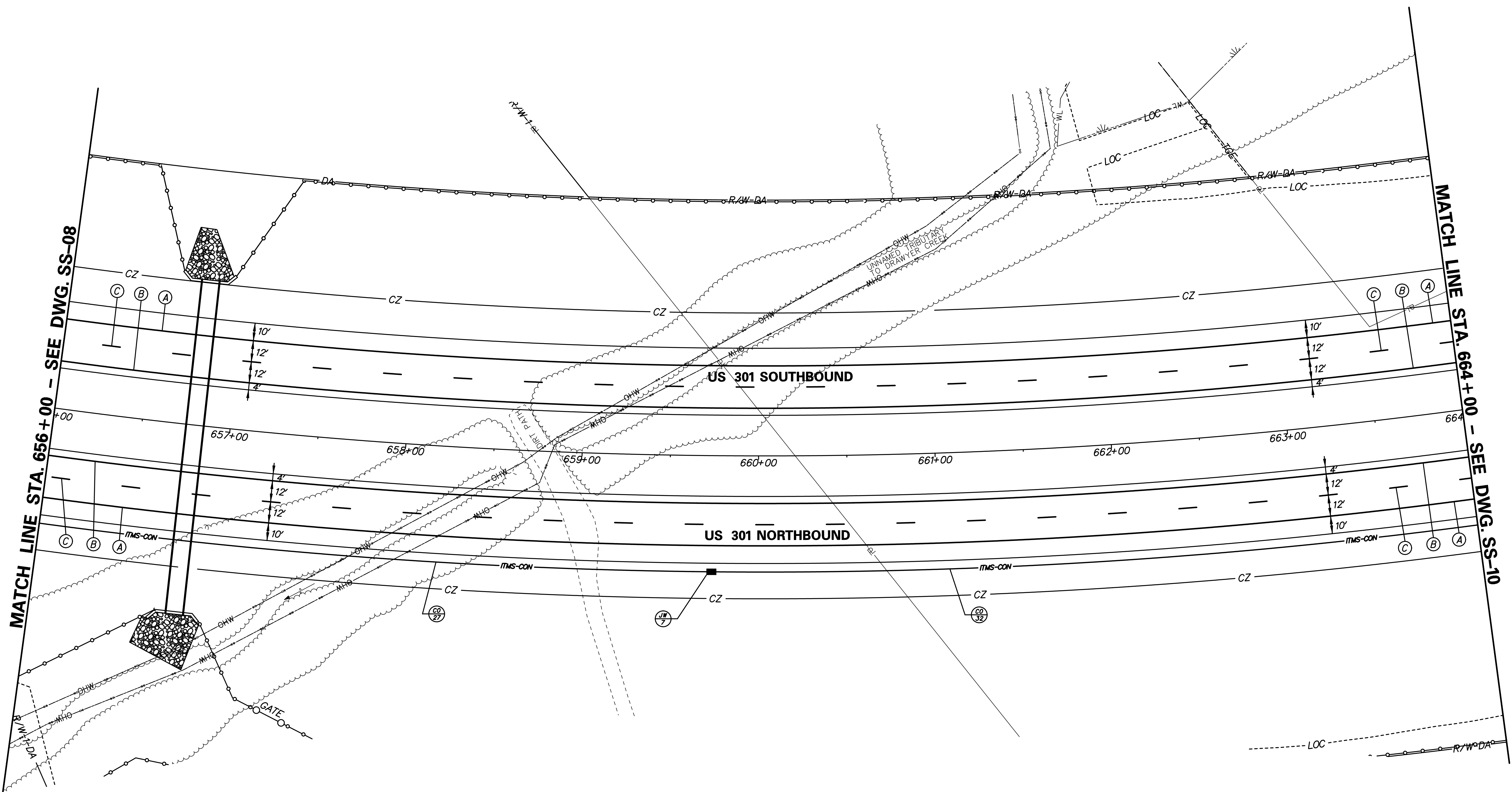
CONTRACT	BRIDGE NO.
T200911301	
COUNTY	DESIGNED BY: J.D.C.
NEW CASTLE	CHECKED BY: J.M.M.

SIGNING, STRIPING &
CONDUIT PLAN

SS-08
SHEET NO.
233
TOTAL SHTS.
240

NOTES:

1. INSTALL PLOWABLE RAISED PAVEMENT MARKERS ALONG THE LIMITS OF THE PROPOSED PAVEMENT STRIPING AS PER CHAPTER 3B OF THE DELDOT MUTCD, AS APPLICABLE.
2. INSTALL POST MOUNTED AND/OR ROADSIDE BARRIER MOUNTED DELINEATORS ALONG THE LIMITS OF THE PROPOSED CONSTRUCTION AS PER CHAPTER 3F OF THE DELDOT MUTCD.



PAVEMENT MARKINGS LEGEND			
SYMBOL	ITEM		QUANTITY
A	8" SOLID WHITE CONTRAST EPOXY RESIN PAINT, 3" BLACK, 5" WHITE	ITEM 748557	1600 LF
		ITEM 748548	1600 LF
B	5" SOLID YELLOW EPOXY RESIN PAINT (ITEM 748548)		1600 LF
C	8" BROKEN WHITE RETROREFLECTIVE PREFORMED PATTERNED CONTRAST PAVEMENT STRIPING, 10' LINE & 30' GAP, 1.5" BLACK, 5" WHITE, 1.5" BLACK (ITEM 748566)		400 LF

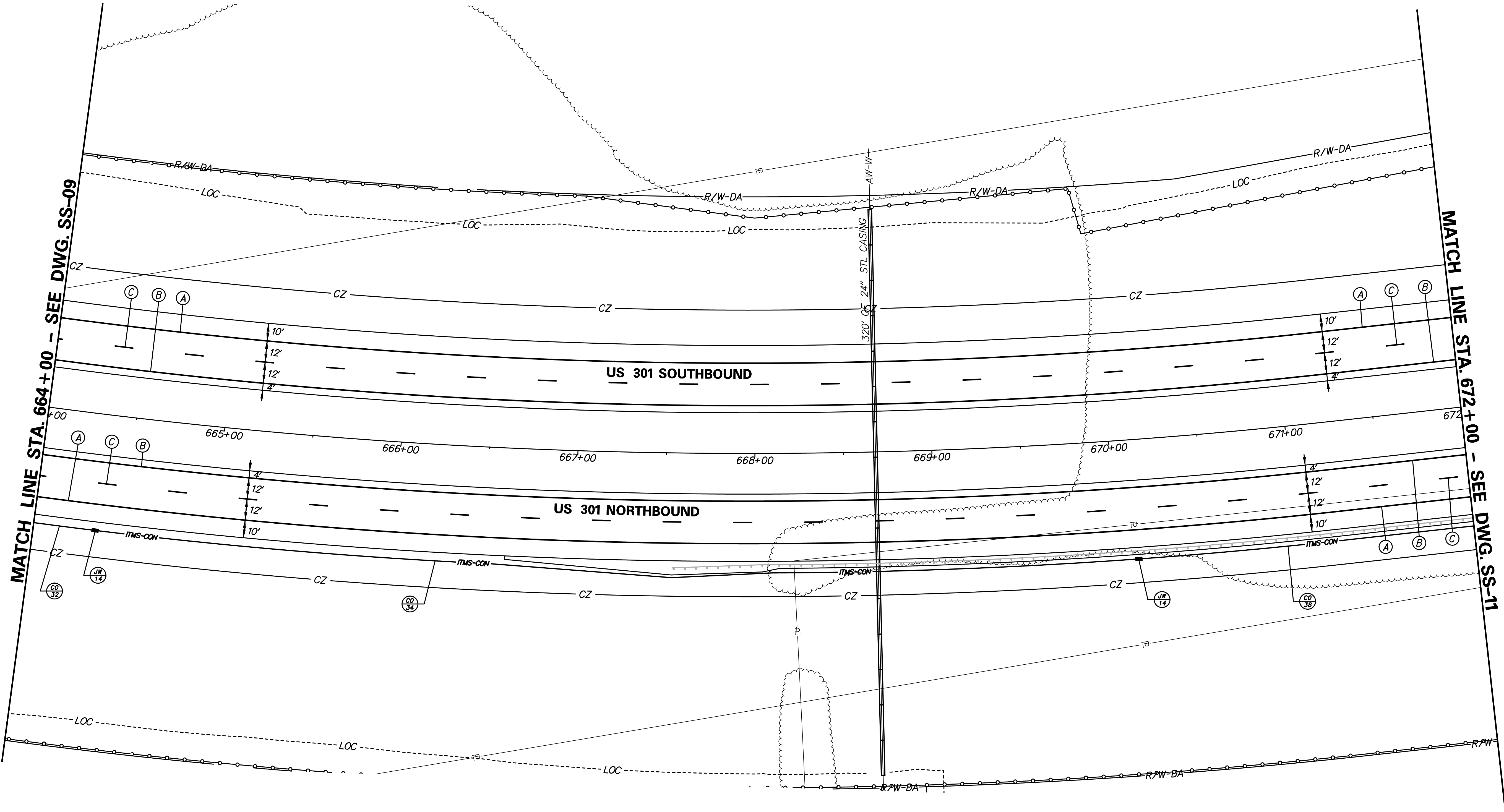
ITMS LEGEND	
	PROPOSED MULTIDUCT ITMS CONDUIT
	EXISTING ITMS CONDUIT
	ITMS CONDUIT JUNCTION WELL
	JUNCTION WELL IDENTIFIER (TYPE) (EXISTING AND PROPOSED)
	CONDUIT RUN IDENTIFIER (# OF RUN) (EXISTING AND PROPOSED)

SIGNING LEGEND	
1	REMOVE EXISTING SIGN
2	EXISTING SIGN TO REMAIN
3	PLACE NEW SIGN
4	RENEW EXISTING SIGN
5	REPOSITION EXISTING SIGN

ITMS CONDUIT RUN SCHEDULE					
CO#	*BF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE (SUPPLY AND INSTALLATION BY DELDOT FORCES)
32	1	4.0 IN	470 FT**	T	COMMUNICATION CABLES
34	1	4.0 IN	600 FT	T	COMMUNICATION CABLES
38	1	4.0 IN	600 FT**	T	COMMUNICATION CABLES

*DENOTES CONDUIT INSTALLED BY DELDOT FORCES B = BORE, T = TRENCH, O = OPEN CUT
**QUANTITY CONTINUES ON ADJACENT SHEET

- NOTES:
- INSTALL PLOWABLE RAISED PAVEMENT MARKERS ALONG THE LIMITS OF THE PROPOSED PAVEMENT STRIPING AS PER CHAPTER 3B OF THE DELDOT MUTCD, AS APPLICABLE.
 - INSTALL POST MOUNTED AND/OR ROADSIDE BARRIER MOUNTED DELINEATORS ALONG THE LIMITS OF THE PROPOSED CONSTRUCTION AS PER CHAPTER 3F OF THE DELDOT MUTCD.

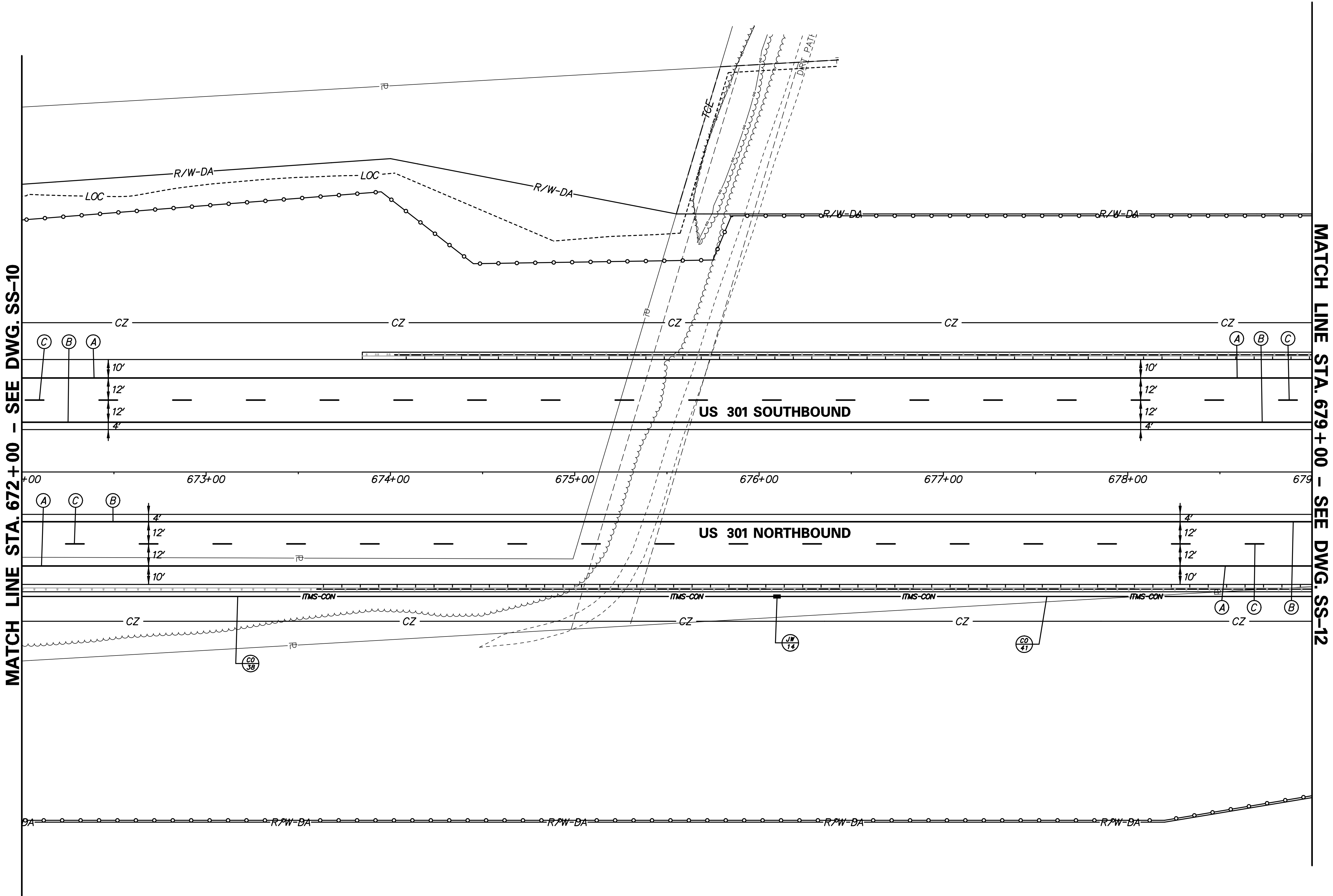
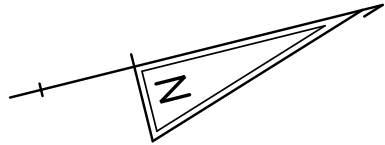


PAVEMENT MARKINGS LEGEND			
SYMBOL	ITEM		QUANTITY
A	8" SOLID WHITE CONTRAST EPOXY RESIN PAINT, 3" BLACK, 5" WHITE	ITEM 748557	1400 LF
		ITEM 748548	1400 LF
B	5" SOLID YELLOW EPOXY RESIN PAINT (ITEM 748548)		1400 LF
C	8" BROKEN WHITE RETROREFLECTIVE PREFORMED PATTERNED CONTRAST PAVEMENT STRIPING, 10' LINE & 30' GAP, 1.5" BLACK, 5" WHITE, 1.5" BLACK (ITEM 748566)		350 LF

ITMS LEGEND	
ITMS-CON	PROPOSED MULTIDUCT ITMS CONDUIT
EX-ITS	EXISTING ITMS CONDUIT
ITMS CONDUIT JUNCTION WELL	
JW	JUNCTION WELL IDENTIFIER (TYPE) (EXISTING AND PROPOSED)
CO	CONDUIT RUN IDENTIFIER (# OF RUN) (EXISTING AND PROPOSED)

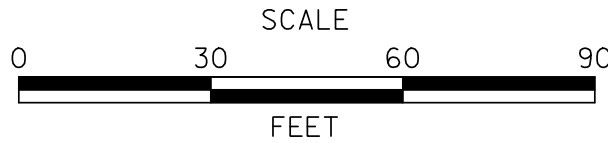
SIGNING LEGEND	
1	REMOVE EXISTING SIGN
2	EXISTING SIGN TO REMAIN
3	PLACE NEW SIGN
4	RENEW EXISTING SIGN
5	REPOSITION EXISTING SIGN

ITMS CONDUIT RUN SCHEDULE					
CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE (SUPPLY AND INSTALLATION BY DELDOT FORCES)
38	1	4.0 IN	600 FT**	T	COMMUNICATION CABLES
41	1	4.0 IN	600 FT**	T	COMMUNICATION CABLES
*DENOTES CONDUIT INSTALLED BY DELDOT FORCES B = BORE, T = TRENCH, O = OPEN CUT					
**QUANTITY CONTINUES ON ADJACENT SHEET					
NOTES:					
1. INSTALL PLOWABLE RAISED PAVEMENT MARKERS ALONG THE LIMITS OF THE PROPOSED PAVEMENT STRIPING AS PER CHAPTER 3B OF THE DELDOT MUTCD, AS APPLICABLE.					
2. INSTALL POST MOUNTED AND/OR ROADSIDE BARRIER MOUNTED DELINEATORS ALONG THE LIMITS OF THE PROPOSED CONSTRUCTION AS PER CHAPTER 3F OF THE DELDOT MUTCD.					



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ADDENDUMS / REVISIONS	



CONTRACT	BRIDGE NO.
T200911301	
COUNTY	DESIGNED BY: J.D.C.
NEW CASTLE	CHECKED BY: J.M.M.

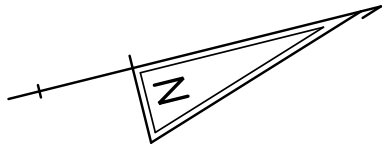
SS-11
SHEET NO.
236
TOTAL SHTS.
240

PAVEMENT MARKINGS LEGEND			
SYMBOL	ITEM		QUANTITY
A	8" SOLID WHITE CONTRAST EPOXY RESIN PAINT, 3" BLACK, 5" WHITE	ITEM 748557	600 LF
		ITEM 748548	600 LF
B	5" SOLID YELLOW EPOXY RESIN PAINT (ITEM 748548)		600 LF
C	8" BROKEN WHITE RETROREFLECTIVE PREFORMED PATTERNED CONTRAST PAVEMENT STRIPING, 10' LINE & 30' GAP, 1.5" BLACK, 5" WHITE, 1.5" BLACK (ITEM 748566)		150 LF

ITMS LEGEND	
ITMS-CON	PROPOSED MULTIDUCT ITMS CONDUIT
EX-ITS	EXISTING ITMS CONDUIT
ITMS CONDUIT JUNCTION WELL	
JW X	JUNCTION WELL IDENTIFIER (TYPE) (EXISTING AND PROPOSED)
CO X	CONDUIT RUN IDENTIFIER (# OF RUN) (EXISTING AND PROPOSED)

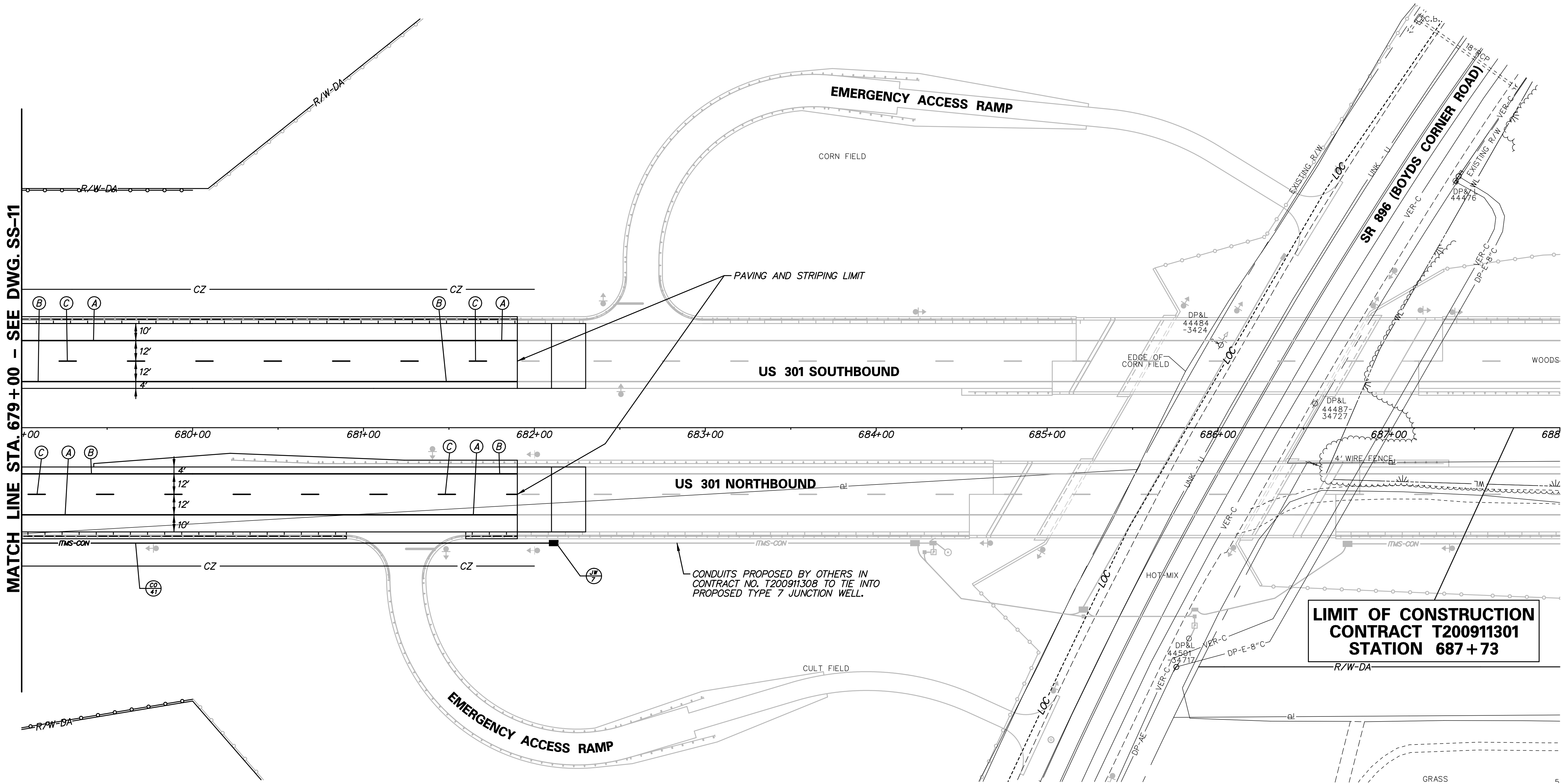
SIGNING LEGEND	
1	REMOVE EXISTING SIGN
2	EXISTING SIGN TO REMAIN
3	PLACE NEW SIGN
4	RENEW EXISTING SIGN
5	REPOSITION EXISTING SIGN

- NOTES:
1. INSTALL PLOWABLE RAISED PAVEMENT MARKERS ALONG THE LIMITS OF THE PROPOSED PAVEMENT STRIPING AS PER CHAPTER 3B OF THE DELDOT MUTCD.
 2. INSTALL POST MOUNTED AND/OR ROADSIDE BARRIER MOUNTED DELINEATORS ALONG THE LIMITS OF THE PROPOSED CONSTRUCTION AS PER CHAPTER 3F OF THE DELDOT MUTCD.
 3. ALL PROPOSED FEATURES SHOWN SCREENED ON THIS PLAN ARE PROPOSED BY OTHERS IN CONTRACT NO. T200911308.



ITMS CONDUIT RUN SCHEDULE					
CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE (SUPPLY AND INSTALLATION BY DELDOT FORCES)
41	1	4.0 IN	600 FT**	T	COMMUNICATION CABLES

*DENOTES CONDUIT INSTALLED BY DELDOT FORCES B = BORE, T = TRENCH, O = OPEN CUT
**QUANTITY CONTINUES ON ADJACENT SHEET



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PANEL DESIGNATION	DWG. NO.	QUANTITY	LEGEND	SIZE			COLOR		BORDER		ARROW	SHIELD	REMARKS
				AREA (SF)	WIDTH	HEIGHT	LEGEND	BCKGRND	THICKNESS	RADIUS			
GM-1	SS-06	1		23.75	9'-6"	2'-6"	W	G	2"	6"	---	---	EXTRUDED ALUMINUM
				185	18'-6"	10'-0"	W	G	2"	12"	---	M1-5 (36"x 36")	EXTRUDED ALUMINUM
GM-2	SS-03	1		23.75	9'-6"	2'-6"	W	G	2"	6"	---	---	EXTRUDED ALUMINUM
				185	18'-6"	10'-0"	W	G	2"	12"	---	M1-5 (36"x 36") EXTRUDED ALUMINUM. THE OVERALL HEIGHT OF THE FRACTION SHALL BE 15". THE HEIGHT OF THE FRACTION NUMERALS SHALL BE EQUAL TO THE HEIGHT OF THE ADJACENT TEXT.	

COLORS: BLK=BLACK, BLU=BLUE, BRO=BROWN, G=GREEN, R=RED, W=WHITE, Y=YELLOW, FY=FLUORESCENT YELLOW, FYG=FLUORESCENT YELLOW GREEN, PUR=PURPLE.

	ADDENDUMS / REVISIONS		NOT TO SCALE	US 301, NORFOLK SOUTHERN RR TO SR 896	CONTRACT	BRIDGE NO.	SIGNING, STRIPING & CONDUIT PLAN – GUIDE SIGN DIMENSIONS AND DETAILS	SHEET NO.
					T200911301			238
					COUNTY	DESIGNED BY: J.D.C.		TOTAL SHTS.
					NEW CASTLE	CHECKED BY: J.M.M.		240

SS-13
SHEET NO.
238
TOTAL SHTS.
240

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NOTES:

1. WHEN SPACING BETWEEN STEEL BEAM SUPPORTS IS GREATER THAN 8'-0" INSTALL DOUBLE ALUMINUM ANGLES (2½"x3½"x¼") CENTERED BETWEEN POSTS FROM TOP TO BOTTOM OF SIGN WITH POST CLIPS INSTALLED AT EACH EXTRUDED ALUMINUM PANEL. COST TO FURNISH AND INSTALL ALUMINUM ANGLES SHALL BE INCIDENTAL TO THE GROUND MOUNT BREAKAWAY TYPE SIGN SUPPORTS AND FOUNDATIONS ITEM.
2. A MINIMUM 7'-0" FROM INSIDE OF FLANGE TO INSIDE OF FLANGE SHALL BE MAINTAINED BETWEEN ALL STEEL BEAM SIGN SUPPORTS LARGER THAN W6X9.
3. ALL STEEL BEAM SIGN SUPPORTS SHALL BE MOUNTED ON BREAKAWAY BASES REGARDLESS OF WHETHER PROTECTED BY TRAFFIC BARRIER OR UNPROTECTED. BREAKAWAY BASE SUPPORT SYSTEMS SHALL BE TRANSPO INDUSTRIES' OR APPROVED EQUAL.
4. STEEL SUPPORTS DESIGNED FOR 90 MPH WIND SPEED AND 25 YEAR DESIGN LIFE USING ASTM A709, GRADE 36 STEEL BEAM SUPPORTS.

POST SIZE	FOUNDATION DIAMETER	ROADWAY CUT / FILL SLOPE										
		≥2:1	3:1	4:1	5:1	6:1	7:1	8:1	9:1	10:1	12:1	≤13:1
W6x9	30"	*	C	C	C	C	B	B	B	A	A	A
W6x12 or TS 5"X5"X1¼"	30"	*	C	C	C	C	B	B	B	A	A	A
W6x15, W6x16 or TS 6"X6"X 1/4 "	30"	*	C	C	C	C	B	B	B	A	A	A
W8x18	30"	*	C	C	C	C	B	B	B	A	A	A
W8x21 or TS 7" X7"X¼"	30"	*	C	C	C	C	B	B	B	A	A	A
W10x22 or TS 8"X8"X½"	36"	*	*	C	C	C	C	B	B	B	A	A
W10x26	36"	*	*	C	C	C	C	B	B	B	A	A
W12x26	36"	*	*	C	C	C	C	B	B	B	A	A
W14x30	36"	*	*	C	C	C	C	B	B	B	A	A
W16x31	36"	*	*	C	C	C	C	B	B	B	A	A
W18x35 or W18x40	36"	*	*	C	C	C	C	B	B	B	A	A
W21x44	42"	*	*	C	C	C	C	C	B	B	B	A

SIGN STAKEOUT DIMENSIONS



A. 7'-6" MINIMUM FOR BREAKAWAY SUPPORTS OR 7'-0" FOR NON-BREAKAWAY SUPPORTS.
B. 2'-6" MINIMUM
C. 7'-6" MINIMUM & PREFERABLE. THIS DIMENSION IS TO BE INCREASED ONLY WHEN REQUIRED TO MEET A = 7'-6" FOR BREAKAWAY OR A (MIN.) = 7'-0" FOR NON-BREAKAWAY AND B (MIN.) 2'-0"
ALL DIMENSIONS ARE TO BOTTOM OF SIGN

SEE SUPPORT CHARTS

W = FACE OF W-BEAM TRAFFIC BARRIER
FOC = FACE OF CURB
ES = EDGE OF SHOULDER
ETR = EDGE OF TRAVELED ROADWAY
CM = CENTERED IN MEDIAN (LEFT OBJECT/ RIGHT OBJECT)
CG = CENTERED IN GORE (LEFT OBJECT/ RIGHT OBJECT)
B = FACE OF CONCRETE TRAFFIC BARRIER

SEE MINIMUM LATERAL CLEARANCES OF SIGNS

EDGE OF ROADWAY OR FACE OF W-BEAM OR CURB

7'-0"

ROADWAY

1 = EDGE OF SIGN 6' FROM FACE OF W-BEAM TRAFFIC BARRIER
2 = EDGE OF SIGN 6' FROM EDGE OF SHOULDER
3 = EDGE OF SIGN 6' PREFERABLE MIN. (2' ABSOLUTE MIN.) FROM EACH EDGE OF SHOULDER IN MEDIAN OR CURB

NOTE: ALL SUPPORTS WITHIN THE CLEAR ZONE SHALL BE BREAKAWAY UNLESS PROTECTED BY TRAFFIC BARRIER, EXCEPT AS NOTED ABOVE FOR STEEL SUPPORTS.

Diagram illustrating the reinforcement details for a column section. The diagram shows a cross-section of a column with a grid of reinforcement bars. Key features include:

- GROUND LINE**: Indicated by a horizontal line with diagonal hatching.
- TOP OF FOOTING**: The top edge of the column's base.
- 1" CHAMFER**: A chamfered edge at the top of the column.
- TOP 12" TO BE FORMED**: A section of the column top 12 inches above the footing, indicated by a vertical dimension line.
- HORIZONTAL BARS EQUALLY SPACED**: A vertical dimension line indicating the spacing of horizontal reinforcement bars.
- SECTION**: A horizontal line with a break symbol indicating a section cut.
- 3" CLEARANCE**: A horizontal dimension line indicating the clearance between the reinforcement bars.
- H**: A vertical dimension line indicating the total height of the column section.

Diagram illustrating the cross-section of a circular column with diameter D . The reinforcement details include:

- A 3" clearance at the top.
- A 1'-0" lap for the vertical bars.
- Horizontal ties and vertical bars (equally spaced).
- The section is labeled A-A.

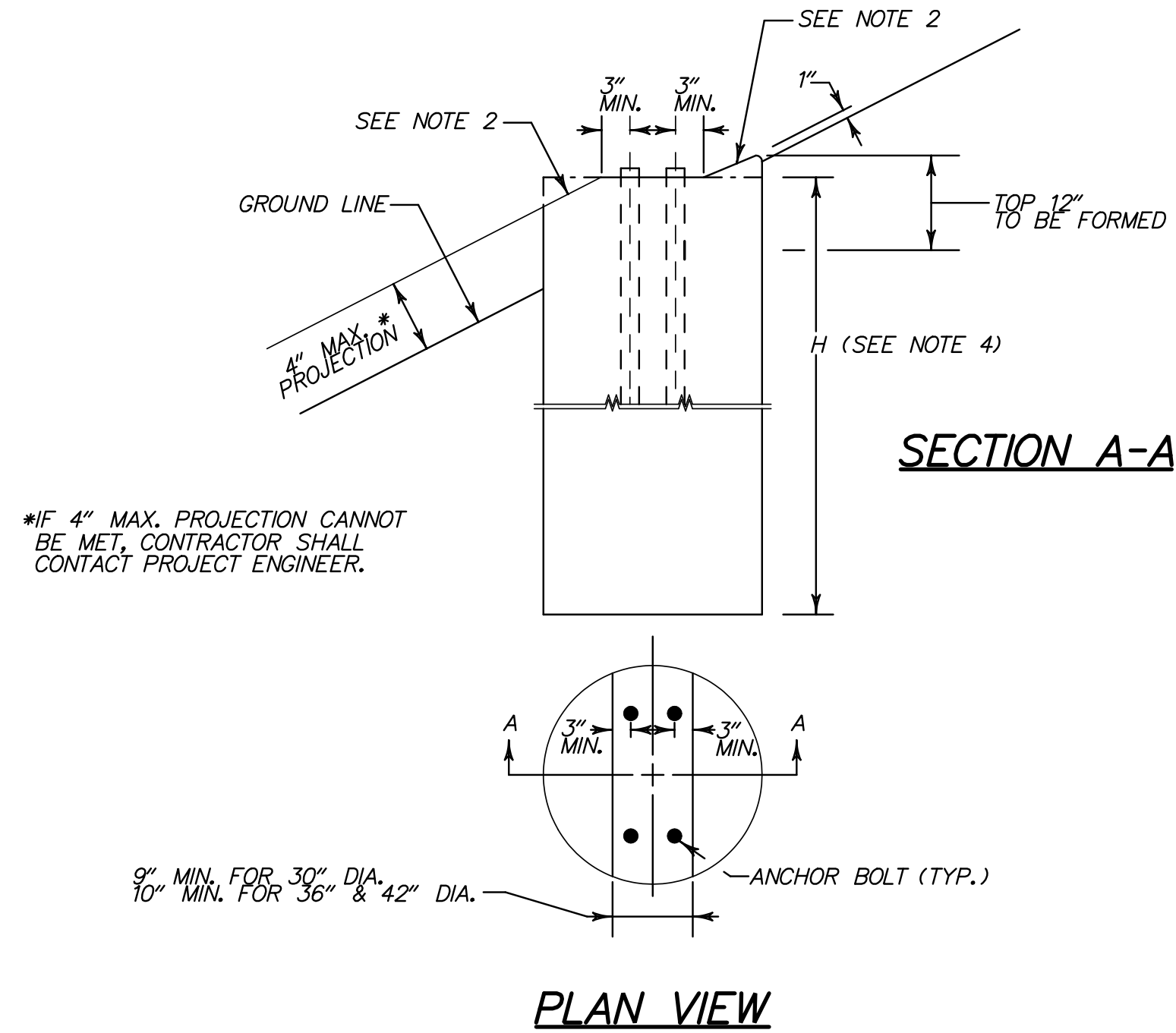
POST SIZE	D	H	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT	CONCRETE REQUIRED (CY)
W6x9	30"	6'-0"	EIGHT (8)-NO. 7	SEVEN (7)-NO. 4	1.1
W6x12 OR TS-5x5x1/4	30"	6'-0"	EIGHT (8)-NO. 7	SEVEN (7)-NO. 4	1.1
W6x15, W6x16 OR TS-6x6x1/4	30"	6'-6"	EIGHT (8)-NO. 7	SEVEN (7)-NO. 4	1.2
W8x18	30"	7'-6"	EIGHT (8)-NO. 9	EIGHT (8)-NO. 4	1.4
W8x21 OR TS-7x7x1/4	30"	8'-0"	EIGHT (8)-NO. 9	NINE (9)-NO. 4	1.5
W10x22 OR TS-8x8x5/16	36"	8'-6"	EIGHT (8)-NO. 10	NINE (9)-NO. 4	2.3
W10x26	36"	9'-0"	EIGHT (8)-NO. 10	TEN (10)-NO. 4	2.4
W12x26	36"	10'-0"	EIGHT (8)-NO. 10	ELEVEN (11)-NO. 4	2.7
W14x30	36"	11'-0"	EIGHT (8)-NO. 10	TWELVE (12)-NO. 4	2.9
W16x31	36"	12'-0"	EIGHT (8)-NO. 10	THIRTEEN (13)-NO. 4	3.2
W18x35 OR W18x40	36"	13'-0"	EIGHT (8)-NO. 10	FOURTEEN (14)-NO. 4	3.5
W21x44	42"	12'-0"	TWELVE (12)-NO. 10	THIRTEEN (13)-NO. 4	4.3

SYSTEM TYPE	ASSOCIATED POST SIZE
A16	W6X9
B525	W6X12, W6X15, W6X16, W8X18, W8X21, 5" x5" & 6" x6" SQUARE
B650	7" x7" AND 8" x8" SQUARE AND ALL I-BEAMS LARGER THAN W8X21

**US 301,
NORFOLK SOUTHERN RR TO SR 896**

SIGNING CONSTRUCTION DETAILS

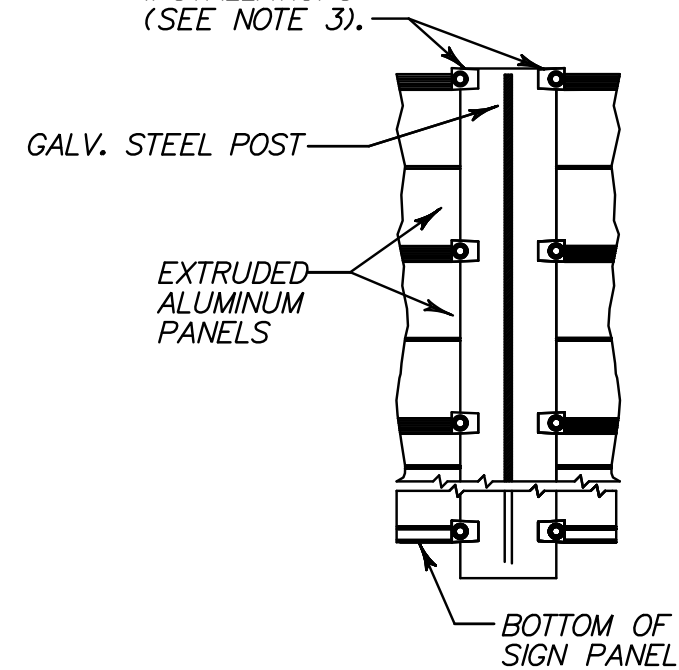
GALVANIZED STEEL BEAM TYPE C
SIGN POST FOUNDATION DETAIL



- NOTES:**
1. THIS FOUNDATION SHALL BE USED ONLY IN LOCATIONS MEETING SLOPE CRITERIA IN ACCORDANCE WITH THE STEEL BREAKAWAY SUPPORT FOUNDATION SELECTION MATRIX ON THE SIGNING CONSTRUCTION DETAILS SHEET.
 2. SLOPED PORTIONS OF THE FOUNDATION SHALL MATCH THE FINISHED GROUND SLOPE.
 3. ON FILL SLOPES GREATER THAN 6:1 BUT NO STEEPER THAN 3:1, FOUNDATIONS DESIRABLY SHOULD BE INSTALLED A MINIMUM OF 14 FT BEYOND THE HINGE POINT. THE HINGE POINT IS THE POINT OF SLOPE TRANSITION FROM THE SHOULDER SLOPE, OR A RELATIVELY FLAT RECOVERY AREA ADJACENT TO THE ROADWAY, TO A STEEPER FORESLOPE, (ALSO KNOWN AS THE FORESLOPE BREAK).
 4. REFER TO GALVANIZED STEEL BEAM TYPE A SIGN POST FOUNDATION DETAIL FOR FOUNDATION DIMENSIONS AND REINFORCING STEEL DETAILS.

VERTICAL SUPPORT ATTACHMENT FOR GROUND MOUNTED SIGNS

USE DOUBLE CLIPS
EVERY 12" FOR ALL
EXTRUDED SIGN
INSTALLATIONS
(SEE NOTE 3).



- ### INSTALLATION OF EXIT PANEL TO EXTRUDED SIGN



1. VERTICAL SUPPORTS ARE TO BE CONTINUOUS FOR ENTIRE HEIGHT OF SIGN, INCLUDING EXIT PANEL WHERE APPLICABLE.
2. ALL SUPPORTS (INCLUDING ANGLES) SHALL BE POST CLIPPED AT 12" INTERVALS.

ADDENDUMS / REVISIONS		NOT TO SCALE	US 301, NORFOLK SOUTHERN RR TO SR 896	CONTRACT	BRIDGE NO.	SIGNING CONSTRUCTION DETAILS	SHEET NO.
				T200911301			240
				COUNTY	DESIGNED BY: J.D.C.		TOTAL SHTS.
				NEW CASTLE	CHECKED BY: J.M.M.		240