

GENERAL LOCATION OF CONTRACT

# THE STATE OF DELAWARE DEPARTMENT OF TRANSPORTATION

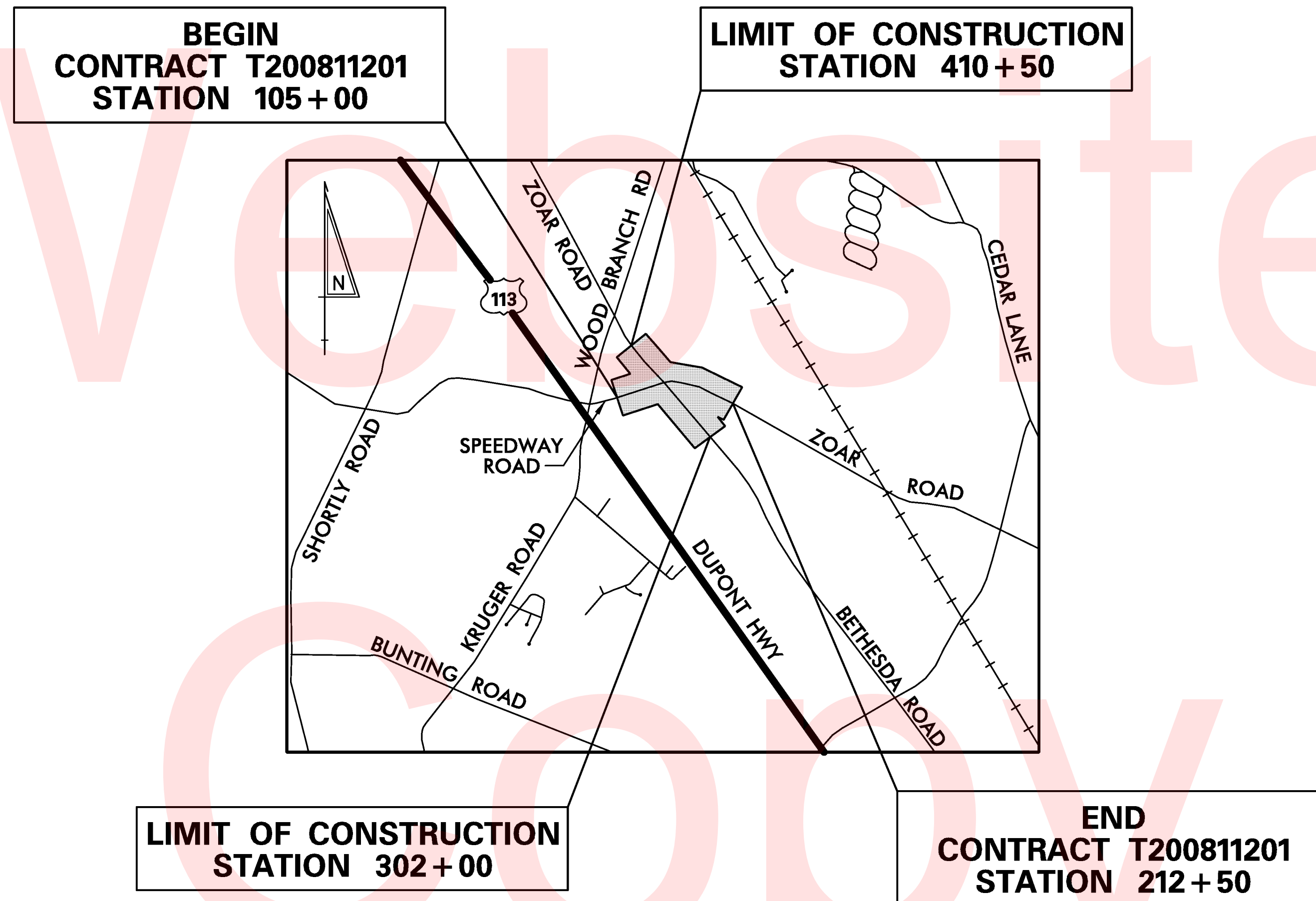
U.S. CUSTOMARY  
UNITS



## CONSTRUCTION PLANS FOR: HSIP SUSSEX COUNTY, ZOAR ROAD, SPEEDWAY ROAD, AND BETHESDA ROAD INTERSECTION IMPROVEMENTS

CONTRACT NUMBER: T200811201  
FEDERAL AID PROJECT NUMBER: ESTP-S048(05)

COUNTY: SUSSEX M.R. #: 48, 325, 326



DESIGN DESIGNATION		
FUNCTIONAL CLASS: MAJOR COLLECTOR	D.H.V. PROJECTED: 900	YEAR: 2030
TYPE OF CONSTRUCTION: INTERSECTION IMPROVEMENT	DESIGN SPEED: 55 M.P.H., 45 M.P.H.(LOCAL)	
A.A.D.T. CURRENT: 3,991	YEAR: 2008	TRUCKS: 2%
A.A.D.T. PROJECTED: 8,000	YEAR: 2030	DIRECTION OF DISTRIBUTION: 50% / 50%
INDEX OF SHEETS		
SHEET NO	TABLE OF CONTENTS	
1	TITLE SHEET	
2	PLAN SHEET INDEX	
3	LEGEND	
4	PROJECT NOTES	
5-9	TYPICAL SECTIONS	
10-11	HORIZONTAL AND VERTICAL CONTROL	
12-16	CONSTRUCTION PLANS	
17-20	PROFILES	
21-26	GRADES AND GEOMETRICS	
27	CONSTRUCTION DETAILS	
28	CONSTRUCTION PHASING, M.O.T. AND EROSION CONTROL PLANS	
29	DETOUR PLAN	
30-31	LIGHTING PLANS	
32-34	UTILITY RELOCATION PLANS	
35-41	SIGNING AND STRIPING PLANS	
42	SIGNALIZATION PLAN	
TOTAL SHEETS: 42		

APPROVED DESIGN EXCEPTIONS			
DESIGN PARAMETER	REQUIRED	PROVIDED	DATE

ADDENDA & REVISIONS	
DESCRIPTION	NAME & DATE

ASSOCIATED CONTRACTS	
CONTRACT NO.	CONTRACT NAME
S-376	COUNTY FARM TO STOCKLEY
S-1727	RD. 325 (RTE. 113 TO RD. 431)
S-1881	326 (RD. 318 TO RD. 48)

PREPARED BY  
THE CONSULTING FIRM OF

**Whitman, Requardt & Associates, LLP**  
1013 Centre Road, Suite 302, Wilmington, Delaware 19805

*Jeffrey R. Rieger* 04/21/2016  
RECOMMENDED DATE

*Sarah E. Criswell* 05/03/2016  
RECOMMENDED SQUAD MANAGER, CONSTRUCTION DATE

*Bradford L. Schmitt* 05/04/2016  
RECOMMENDED GROUP ENGINEER, CONSTRUCTION DATE

*Jim A. Zujewski* 05/04/2016  
RECOMMENDED ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS (CONSTRUCTION) DATE

RECOMMENDED

*Vincent W. Davis*  
STORMWATER ENGINEER

DATE 04/29/2016

RECOMMENDED

*B. R.*  
SQUAD MANAGER, TRANSPORTATION SOLUTIONS (PROJECT DEVELOPMENT OR BRIDGE DESIGN)

DATE 04/28/2016

RECOMMENDED

*Dwain J. Behning*  
BRIDGE DESIGN ENGINEER

DATE

RECOMMENDED

*[Signature]*  
GROUP ENGINEER, PROJECT DEVELOPMENT

DATE 05/05/2016

RECOMMENDED

*Michael H. Simojos*  
ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS

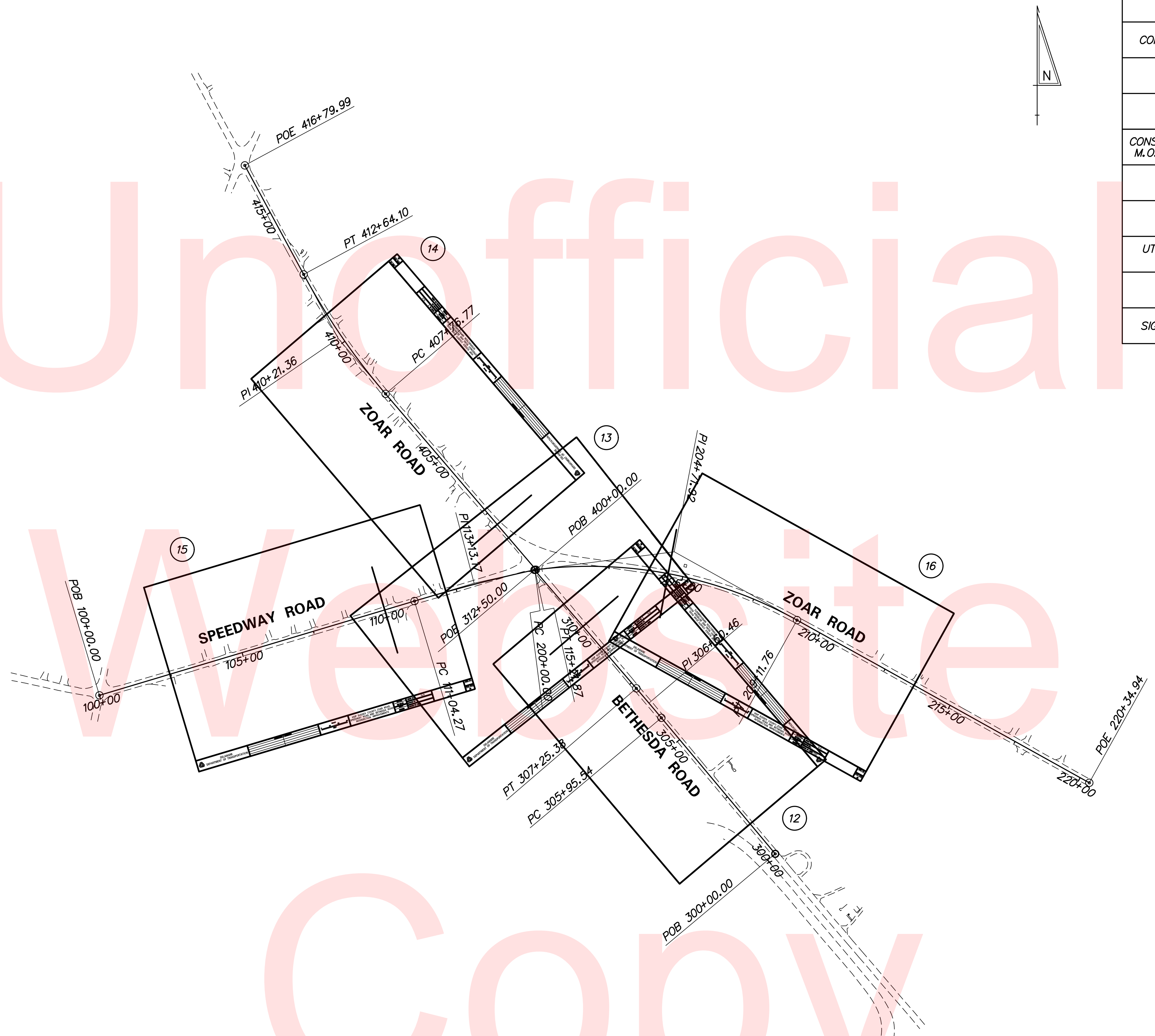
DATE 05/06/2016

APPROVED

*Robert Brian McCleary*  
CHIEF ENGINEER

DATE 05/06/2016

PLAN SHEET INDEX CROSS REFERENCE					
CONSTRUCTION PLAN	12	13	14	15	16
PROFILES	17	17-20	18	19	20
GRADES AND GEOMETRICS	21	22, 25, 26	23	-	24
CONSTRUCTION PHASING, M.O.T. AND E&S PLAN	28	28	28	28	28
DETOUR PLAN	29	29	29	29	29
LIGHTING PLAN	-	30	-	-	-
UTILITY RELOCATION PLAN	32	33	34	-	-
SIGNING AND STRIPING PLAN	35	36	37	38	39
SIGNALIZATION PLAN	-	42	-	-	42

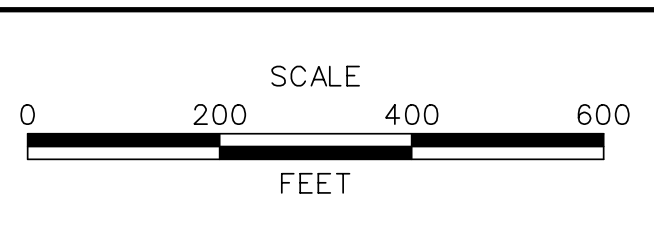


Unofficial Website Copy

No. 31606-003.CADD\IS01zrear.dgn  
P. 2/20/2016 3:18:05 PM



ADDENDUMS / REVISIONS	



**HSIP SUSSEX COUNTY, ZOAR ROAD, SPEEDWAY ROAD, AND BETHESDA ROAD INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	<b>N/A</b>
T200811201	DESIGNED BY:	D.A.D.
COUNTY	CHECKED BY:	J.R.R.
SUSSEX		

**PLAN SHEET INDEX**

<b>IS-01</b>
SHEET NO.
2
TOTAL SHTS.
42



## GENERAL NOTES

1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED AUGUST 2001 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2001, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.

EROSION POTENTIAL FOR THIS PROJECT	CONTRACTOR ESC SUPERVISOR REQUIREMENT
( ) INSIGNIFICANT	NONE
( ) MINOR	CONTRACTOR TRAINING PROGRAM, AS DEFINED IN SECTION 6.2 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
( ) MEDIUM	CONTRACTOR TRAINING PROGRAM, AS DEFINED IN SECTION 6.2 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
( X ) MAJOR	CERTIFIED CONSTRUCTION REVIEWER (CCR), AS DEFINED IN SECTION 6.3 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.

3. ELECTRONIC PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR, INCLUDE:

( )	NONE
( X )	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
( X )	ALL PLAN SHEETS, IN PDF FORMAT.
( )	EXISTING DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
( )	PROPOSED DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
( )	DESIGN FILE, IN .DGN FILE FORMAT, CONTAINING ONLY THE PROPOSED 3D TRIANGLES OF THE PROPOSED DIGITAL TERRAIN MODEL (DTM).

NOTE: THE DOCUMENT ENTITLED "RELEASE FOR DELIVERY OF DOCUMENTS IN ELECTRONIC FORM TO A CONTRACTOR" MUST BE SIGNED BY ALL PARTIES PRIOR TO THE DELIVERY OF ANY ELECTRONIC PROJECT FILES.

4. PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE CONTRACTOR, INCLUDE:

( X )	CROSS SECTIONS
( X )	RIGHT-OF-WAY PLANS (WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR)

5. AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR REQUIREMENT FOR THIS PROJECT.

( )	THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT.
( X )	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT OR ANOTHER ATSSA CERTIFIED MEMBER OF THE CONTRACTOR'S PROJECT STAFF MAY BE THE ATSSA SUPERVISOR. PAYMENT FOR ATSSA SUPERVISOR IS INCIDENTAL TO ITEM 743000.
( )	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE ATSSA SUPERVISOR'S SOLE JOB SHALL BE SUPERVISION OF THE INSTALLATION, OPERATION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT SHALL NOT BE THE ATSSA SUPERVISOR. PAYMENT FOR ATSSA SUPERVISOR SHALL BE PAID FOR UNDER ITEM 743031.

6. THE DISTURBED AREA FOR THIS PROJECT IS 4.07 ACRES.
7. THE SEDIMENT AND STORMWATER MANAGEMENT PLANS HAVE BEEN APPROVED BY DELDOT'S STORMWATER ENGINEER UNDER DELDOT'S DELEGATED AUTHORITY. THE SEDIMENT AND STORMWATER MANAGEMENT PLANS ARE VALID FOR A THREE YEAR PERIOD, BEGINNING ON THE DATE THE STORMWATER ENGINEER SIGNED THE CONSTRUCTION TITLE SHEET. IF THE FINAL ACCEPTANCE OF THE PROJECT IS ANTICIPATED TO EXTEND BEYOND THE THREE YEARS, THE CONTRACTOR WILL INFORM THE ENGINEER THREE MONTHS PRIOR TO THE EXPIRATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS. THE STORMWATER ENGINEER WILL REVIEW THE CURRENT SEDIMENT AND STORMWATER MANAGEMENT PLAN AND ISSUE AN EXTENSION WITH ANY APPROPRIATE MODIFICATIONS.

## PROJECT NOTES

### SECTION 100

1. ANY DAMAGE TO ITEMS NOTED TO BE RELOCATED OR RESET BY THE CONTRACTOR, AT THE DISCRETION OF THE ENGINEER, SHALL BE REPAIRED AND/OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.

### SECTION 200

2. THE CONTRACTOR SHALL REMOVE AND RESET ALL MAILBOXES TO MAINTAIN MAIL SERVICE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RELOCATE MAILBOXES AS REQUIRED BY THE PROPOSED GEOMETRICS AND AS DIRECTED BY THE ENGINEER. WHEN RELOCATING MAILBOXES IN CURBED SECTIONS, THE FACE OF THE MAILBOX SHALL BE FLUSH WITH THE BACK EDGE OF CURB. WHEN RELOCATING MAILBOXES IN OPEN SECTIONS, THE FACE OF THE MAILBOX SHALL SET BACK 8 INCHES FROM THE EDGE OF THE PAVED SHOULDER. THE BOTTOM OF THE MAILBOX SHALL BE SET 46 INCHES ABOVE THE ROADWAY SURFACE. MAILBOXES LOCATED AT DRIVEWAY ENTRANCES SHALL BE PLACED ON THE FAR SIDE OF THE DRIVEWAY IN THE DIRECTION OF TRAVEL. POSTS BEING RESET IN CONCRETE SIDEWALK SHALL BE PLACED IN AN APPROPRIATE SIZE PVC SLEEVE. COST FOR ALL WORK AND MATERIALS SHALL BE PAID UNDER ITEM 201000 - CLEARING AND GRUBBING.

3. THE ENGINEER MAY REQUIRE THE CONTRACTOR TO EXCAVATE TEST PITS ALONG PROPOSED DRAINAGE RUNS, AT POINTS OF POSSIBLE UTILITY CONFLICTS, TO DETERMINE IF A CONFLICT EXISTS. ANY CONFLICTS SHALL BE COORDINATED BY THE CONTRACTOR, WITH THE ENGINEER AND THE UTILITY COMPANY INVOLVED. THE ENGINEER SHALL ULTIMATELY DETERMINE THE SOLUTION TO THE UTILITY CONFLICT. TEST HOLES SHALL BE MEASURED AND PAID FOR IN ACCORDANCE WITH ITEM 202000, BUT ONLY TO THE ACTUAL DEPTH EXCAVATED.

### SECTION 400

4. THE PAVEMENT SECTION FOR FLEXIBLE PAVEMENT RESIDENTIAL DRIVEWAYS SHALL BE 2" WARM-MIX, TYPE 'C' OVER 8" GRADED AGGREGATE BASE COURSE, TYPE 'B', UNLESS OTHERWISE NOTED ON THE PLANS.

### SECTION 600

5. THE DEPARTMENT AND THE CONTRACTOR SHALL INSPECT ALL EXISTING PIPES AND DRAINAGE STRUCTURES TO BE USED IN THE FINAL DRAINAGE SYSTEM AND AGREE ON THE CONDITION PRIOR TO THE START OF CONSTRUCTION. EXISTING PIPES AND DRAINAGE STRUCTURES DAMAGED DUE TO CONTRACTOR OPERATIONS SHALL BE REPAIRED OR REPLACED IN-KIND AT THE CONTRACTOR'S EXPENSE. THE DEPARTMENT WILL VIDEO INSPECT NEW PIPE RUNS TO CONFIRM CONDITION PRIOR TO ACCEPTANCE. PIPE CLEANING PRIOR TO VIDEO INSPECTION AND MAINTENANCE OF TRAFFIC DURING THE VIDEO INSPECTION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND INCIDENTAL TO THE PIPE ITEM THAT IS BEING VIDEO INSPECTED.

### SECTION 700

6. STATION AND ELEVATION DATA GIVEN FOR DRAINAGE STRUCTURES ARE TO BE APPLIED TO THE CENTER OF THE GRATE FOR INLETS, AND TO THE CENTER OF THE STRUCTURE FOR JUNCTION BOXES AND MANHOLES.
7. ALL PAVED AREAS TO BE RECONSTRUCTED OR WIDENED SHALL BE SAWCUT AT THE POINT WHERE THE NEW PAVEMENT IS TO TIE INTO THE EXISTING PAVEMENT.
8. THE CONTRACTOR SHALL INSTALL AND REMOVE ALL REGULATORY, WARNING, AND SPECIAL SIGNS AND POSTS WITHIN CONTRACT LIMITS UNLESS OTHERWISE NOTED. DELDOT TO FURNISH ALL REGULATORY, WARNING, AND SPECIAL SIGNS AND POSTS TO CONTRACTOR FOR INSTALLATION. FOR COORDINATION AND PICK UP OF SIGNS AND POSTS THE CONTRACTOR SHALL CONTACT DELDOT'S TRANSPORTATION SYSTEM SPECIALIST AT 302-760-2581. THE CONTRACTOR SHALL ALLOW FOUR (4) WEEKS FOR THE DELIVERY OF SIGNS.

### SECTION 900

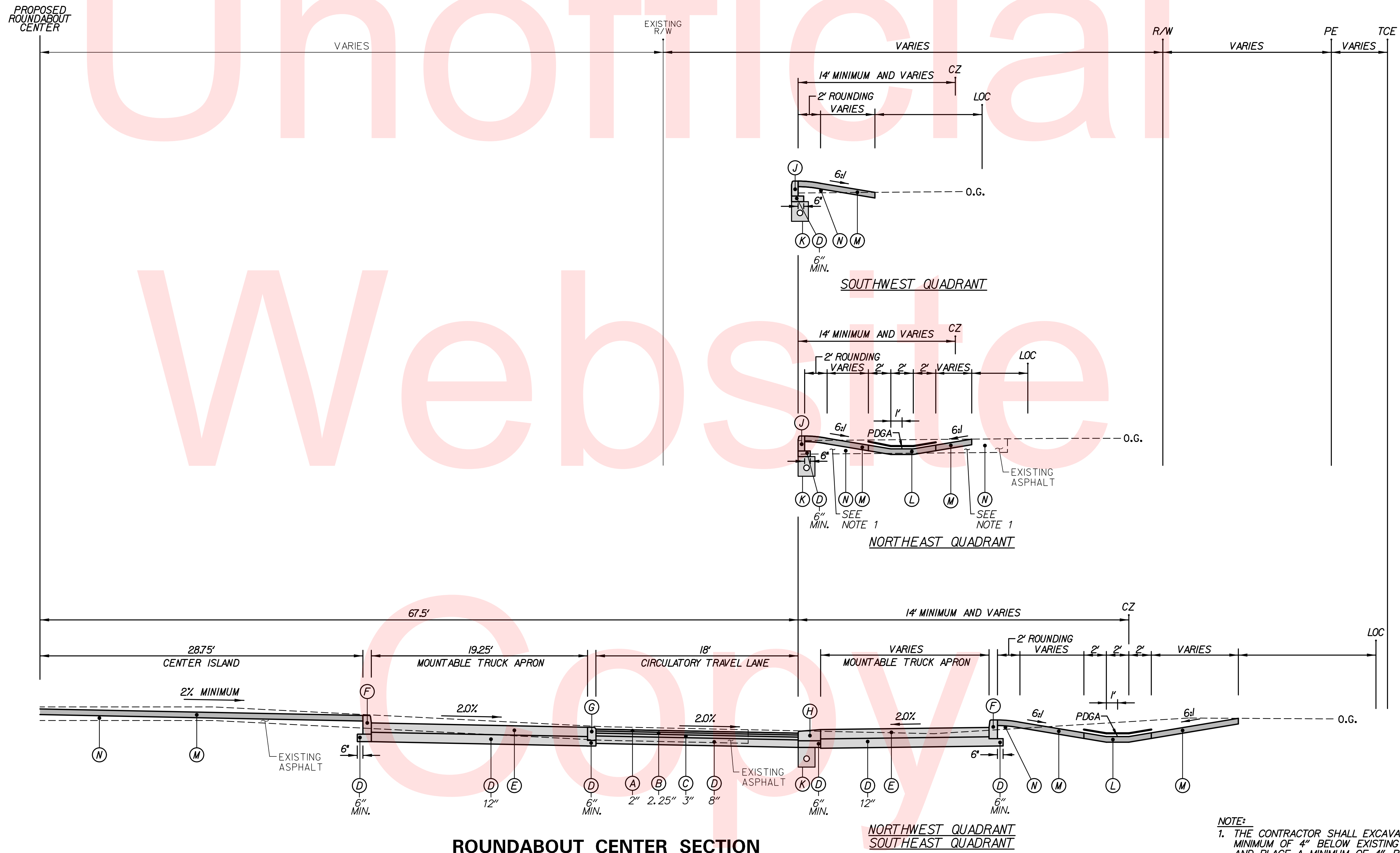
9. THIS PROJECT IS COVERED UNDER AN NPDES GENERAL PERMIT FOR CONSTRUCTION. UNDER THE GENERAL PERMIT, COMPLIANCE WITH DELDOT'S APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS WILL CONSTITUTE COMPLIANCE WITH THE NPDES INDUSTRIAL PERMITTING REQUIREMENTS FOR THIS CONSTRUCTION PROJECT. A COPY OF THE NPDES GENERAL PERMIT AND NOIS KEPT ON FILE IN EACH OF THE CONSTRUCTION OFFICES AND THE DEPARTMENT'S STORMWATER SECTION. A COPY OF THE GENERAL PERMIT OR THE NOICAN BE OBTAINED UPON REQUEST FROM EITHER THE DEPARTMENT'S STORMWATER ENGINEER OR THE APPROPRIATE CONSTRUCTION ENGINEER.

### MISCELLANEOUS

10. REFER TO THE CONSTRUCTION PLAN SHEETS FOR THE LOCATION OF THE CLEAR ZONE AREA LIMITS.
11. THE CONTRACTOR SHALL REMOVE ALL LANDSCAPING AND SHRUBS WITHIN THE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS.
12. THERE ARE NO ENVIRONMENTAL PERMITS (INCLUDING BUT NOT LIMITED TO COE, DNREC SUBAQUEOUS LANDS AND WETLANDS), OR ENVIRONMENTAL CONSTRUCTION RESTRICTIONS ASSOCIATED WITH THE PROJECT. AS SUCH, NO ENVIRONMENTAL COMPLIANCE SHEET WAS PREPARED. THERE ARE NO CULTURAL RESOURCE AND ARCHAEOLOGICAL ISSUES.
13. PRIOR TO PERFORMING WORK NEAR THE RESIDENTIAL DRIVEWAYS AT STA. 404+20 RT. AND STA. 405+10 RT. THE CONTRACTOR SHALL TAKE PHOTOGRAPHS OF THE DRIVEWAYS' CONDITION WITHIN THE LIMIT OF CONSTRUCTION AND PROVIDE THESE PHOTOGRAPHS TO THE ENGINEER FOR APPROVAL. PRIOR TO WORK, THE CONTRACTOR SHALL COLLECT THE TOP LAYER OF STONE ON EACH DRIVEWAY WITHIN THE LOC AND STORE IN TWO SEPARATE STOCKPILES. ONCE WORK IN THIS AREA IS COMPLETE, THE CONTRACTOR SHALL PLACE AND GRADE THE STOCKPILED STONE BACK TO ITS ORIGINAL CONDITION. THE CONTRACTOR SHALL TAKE ADDITIONAL PHOTOGRAPHS SHOWING THE COMPLETED WORK AND PROVIDE TO THE ENGINEER. THE COST OF STOCKPILING AND RE-INSTALLING THE STONE SHALL BE INCIDENTAL TO ITEM 763501 - CONSTRUCTION ENGINEERING.

**LEGEND**

- (A) ITEM 401804 - BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS PG 70-22 (CARBONATE STONE)
- (B) ITEM 401813 - BITUMINOUS CONCRETE, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 70-22
- (C) ITEM 401819 - BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (D) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (E) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (F) ITEM 701010 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-B
- (G) ITEM 701013 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-2
- (H) ITEM 701025 - PORTLAND CEMENT CONCRETE CURB, TYPE 2, MODIFIED
- (J) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-4
- (K) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (L) DITCH STABILIZATION (6 FEET WIDE)  
ITEM 908004 - TOPSOIL, 6" DEPTH  
ITEM 908014 - PERMANENT GRASS SEEDING, DRY GROUND  
ITEM 908020 - EROSION CONTROL BLANKET
- (M) ITEM 908004 - TOPSOIL, 6" DEPTH  
ITEM 908014 - PERMANENT GRASS SEEDING, DRY GROUND
- (N) ITEM 209006 - BORROW, TYPE F
- (P) ITEM 209001 - BORROW, TYPE A



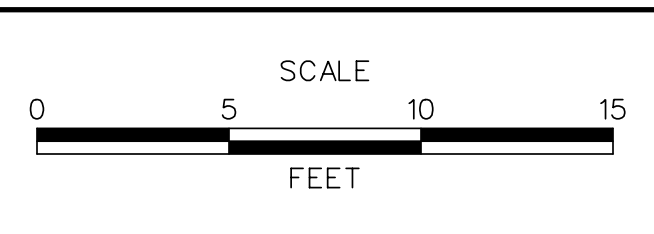
**ROUNDABOUT CENTER SECTION**

**NOTE:**  
1. THE CONTRACTOR SHALL EXCAVATE A MINIMUM OF 4" BELOW EXISTING ASPHALT AND PLACE A MINIMUM OF 4" BORROW, TYPE F.

No. 1606-003, CADWIT 1501201r.dgn 9/22/2016 3:10:06 PM



ADDENDUMS / REVISIONS	



**HSP SUSSEX COUNTY, ZOAR ROAD, SPEEDWAY ROAD, AND BETHESDA ROAD INTERSECTION IMPROVEMENTS**

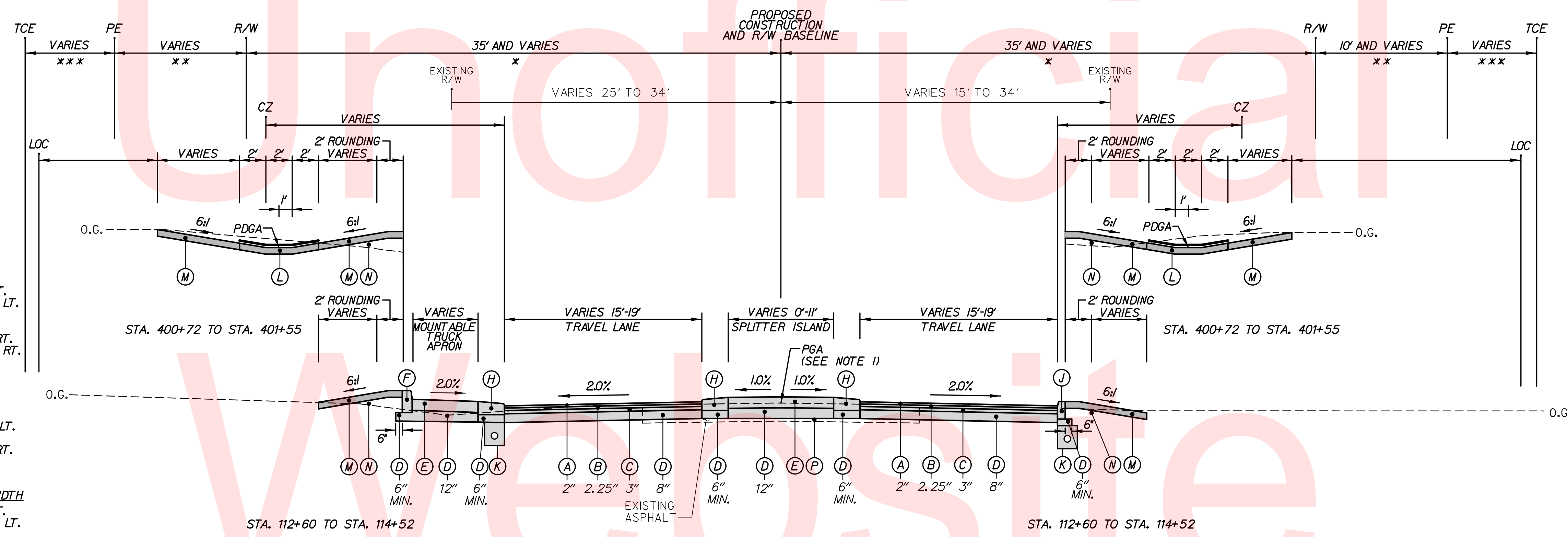
CONTRACT T200811201	BRIDGE NO. N/A
COUNTY SUSSEX	DESIGNED BY: D.A.D.
	CHECKED BY: J.R.R.

<b>TYPICAL SECTIONS</b>
SHEET NO. 5
TOTAL SHTS. 42

**TS-01**

**LEGEND**

- (A) ITEM 401804 - BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS PG 70-22 (CARBONATE STONE)
- (B) ITEM 401813 - BITUMINOUS CONCRETE, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 70-22
- (C) ITEM 401819 - BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (D) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (E) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (F) ITEM 701010 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-8
- (G) ITEM 701013 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-2
- (H) ITEM 701025 - PORTLAND CEMENT CONCRETE CURB, TYPE 2, MODIFIED
- (J) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-4
- (K) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (L) DITCH STABILIZATION (6 FEET WIDE)  
ITEM 908004 - TOPSOIL, 6" DEPTH  
ITEM 908014 - PERMANENT GRASS SEEDING, DRY GROUND  
ITEM 908020 - EROSION CONTROL BLANKET
- (M) ITEM 908004 - TOPSOIL, 6" DEPTH  
ITEM 908014 - PERMANENT GRASS SEEDING, DRY GROUND
- (N) ITEM 209006 - BORROW, TYPE F
- (P) ITEM 209001 - BORROW, TYPE A

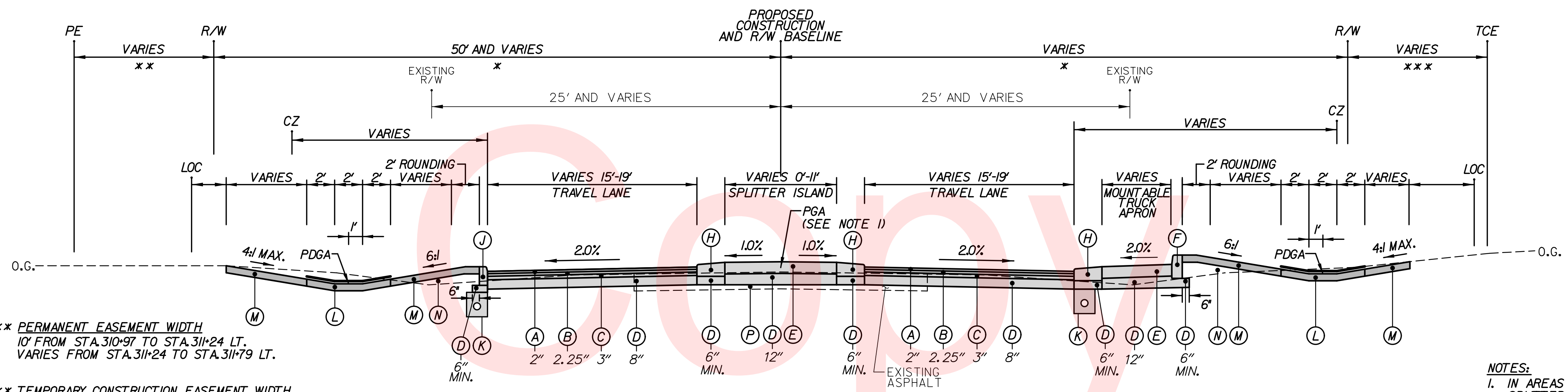


**\* RIGHT-OF-WAY WIDTH**  
35' FROM STA. 112+60 TO STA. 114+15 LT.  
VARIES FROM STA. 114+15 TO STA. 114+52 LT.  
VARIES FROM STA. 400+72 TO STA. 401+60 LT.

35' FROM STA. 112+60 TO STA. 113+95 RT.  
VARIES FROM STA. 113+95 TO STA. 114+52 RT.  
VARIES FROM STA. 400+72 TO STA. 401+60 RT.

**\*\* PERMANENT EASEMENT WIDTH**  
VARIES FROM STA. 401+44 TO STA. 401+55 LT.  
10' FROM STA. 112+60 TO STA. 113+95 RT.  
VARIES FROM STA. 113+95 TO STA. 114+52 RT.  
5' FROM STA. 400+72 TO STA. 401+25 RT.  
6' FROM STA. 401+25 TO STA. 401+55 RT.

**\*\*\* TEMPORARY CONSTRUCTION EASEMENT WIDTH**  
VARIES FROM STA. 112+73 TO STA. 114+16 LT.  
VARIES FROM STA. 400+93 TO STA. 401+55 LT.  
5' FROM STA. 400+72 TO STA. 401+13 RT.  
VARIES FROM STA. 401+13 TO STA. 401+55 RT.



**\* RIGHT-OF-WAY WIDTH**  
VARIES FROM STA. 200+70 TO STA. 201+53 LT.  
50' FROM STA. 310+97 TO STA. 311+75 LT.

VARIES FROM STA. 200+70 TO STA. 201+53 RT.  
VARIES FROM STA. 310+97 TO STA. 311+7 RT.

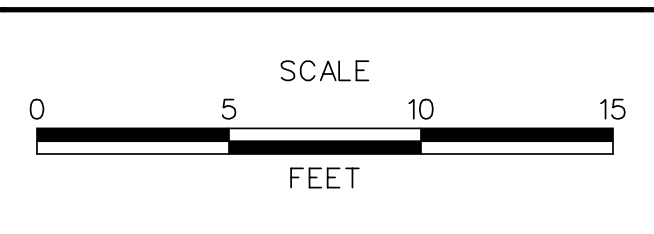
**\*\* PERMANENT EASEMENT WIDTH**  
10' FROM STA. 310+97 TO STA. 311+24 LT.  
VARIES FROM STA. 311+24 TO STA. 311+79 LT.

**\*\*\* TEMPORARY CONSTRUCTION EASEMENT WIDTH**  
VARIES FROM STA. 310+97 TO STA. 311+12 RT.

**NOTES:**  
1. IN AREAS WHERE THE PGA IS LOCATED WITHIN THE SPLITTER ISLAND, ITS VERTICAL LOCATION SHALL BE THE TOP OF THE ADJACENT PAVEMENT ELEVATION PROJECTED AT THE PROPOSED CROSS SLOPE TO THE CONSTRUCTION BASELINE.



ADDENDUMS / REVISIONS	



**HSP SUSSEX COUNTY, ZOAR ROAD, SPEEDWAY ROAD, AND BETHESDA ROAD INTERSECTION IMPROVEMENTS**

CONTRACT T200811201	BRIDGE NO. N/A
COUNTY SUSSEX	DESIGNED BY: D.A.D. CHECKED BY: J.R.R.

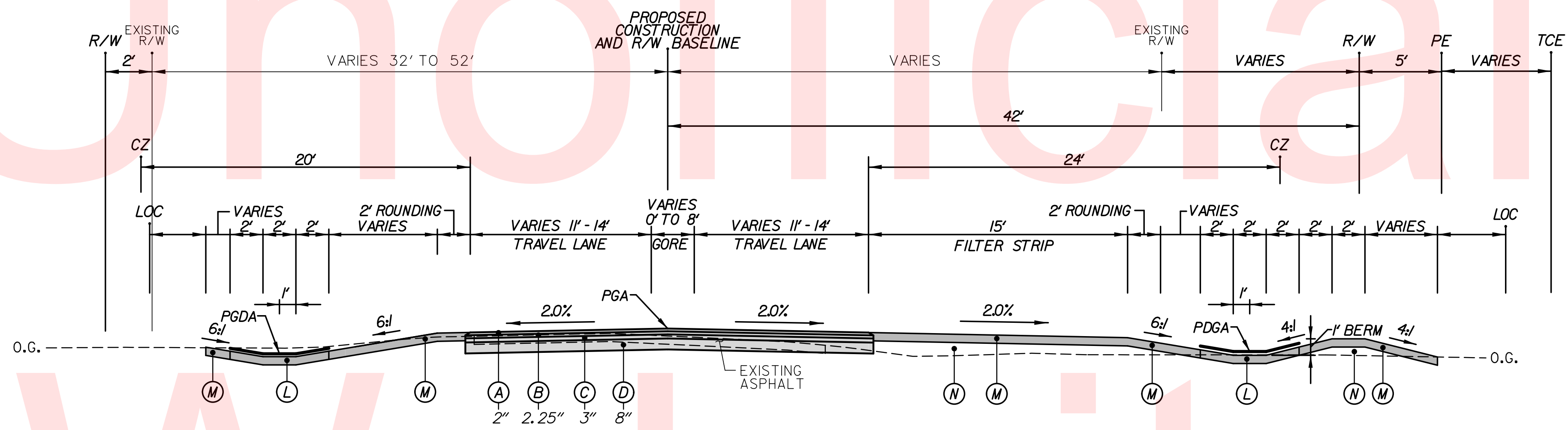
<b>TYPICAL SECTIONS</b>	
SHEET NO.	6
TOTAL SHTS.	42

No. 21606-003, CADWIT 1502zoor.dgn  
9/20/2018 3:10:08 PM

**TS-02**

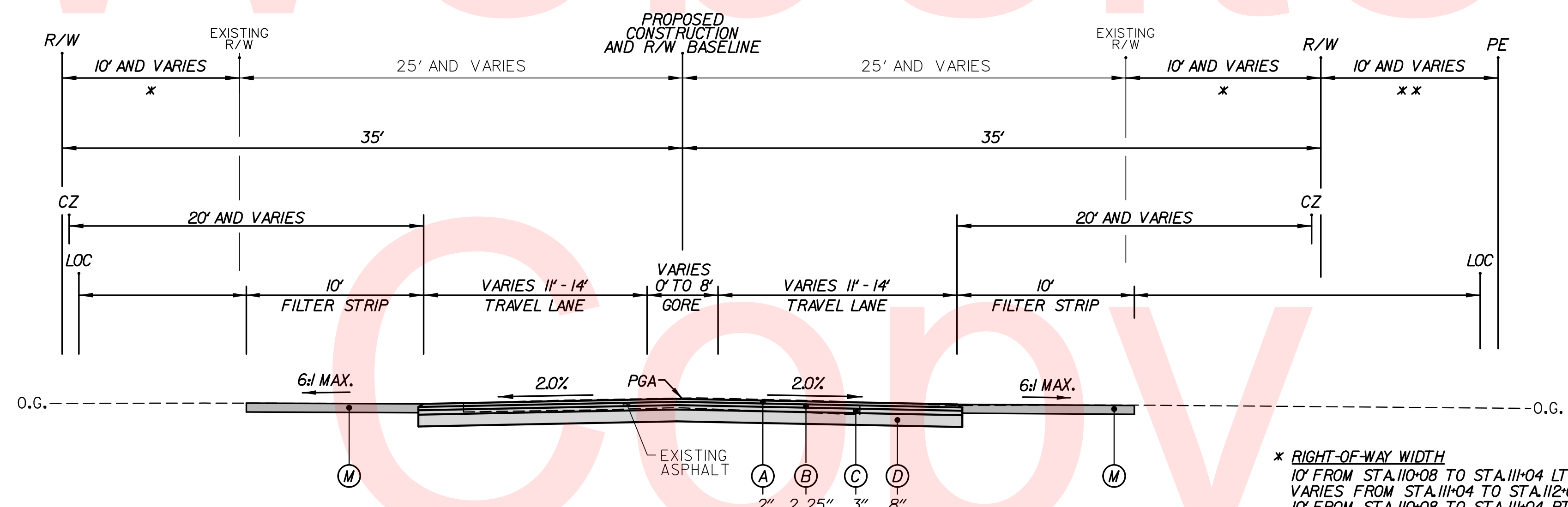
**LEGEND**

- (A) ITEM 401804 - BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS PG 70-22 (CARBONATE STONE)
- (B) ITEM 401813 - BITUMINOUS CONCRETE, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 70-22
- (C) ITEM 401819 - BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (D) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (E) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (F) ITEM 701010 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-B
- (G) ITEM 701013 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-2
- (H) ITEM 701025 - PORTLAND CEMENT CONCRETE CURB, TYPE 2, MODIFIED
- (J) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-4
- (K) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (L) DITCH STABILIZATION (6 FEET WIDE)  
ITEM 908004 - TOPSOIL, 6" DEPTH  
ITEM 908014 - PERMANENT GRASS SEEDING, DRY GROUND  
ITEM 908020 - EROSION CONTROL BLANKET
- (M) ITEM 908004 - TOPSOIL, 6" DEPTH  
ITEM 908014 - PERMANENT GRASS SEEDING, DRY GROUND
- (N) ITEM 209006 - BORROW, TYPE F
- (P) ITEM 209001 - BORROW, TYPE A



**ZOAR ROAD**

STA. 201+93 TO STA. 204+30



**SPEEDWAY ROAD**

STA. 110+08 TO STA. 112+60

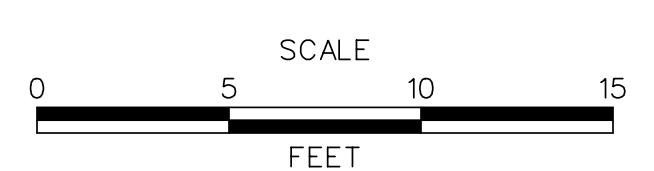
\* **RIGHT-OF-WAY WIDTH**  
10' FROM STA. 110+08 TO STA. 111+04 LT.  
VARIES FROM STA. 111+04 TO STA. 112+60 LT.  
10' FROM STA. 110+08 TO STA. 111+04 RT.  
VARIES FROM STA. 111+04 TO STA. 112+60 RT.

\*\* **PERMANENT EASEMENT WIDTH**  
VARIES FROM STA. 110+22 TO STA. 111+04 RT.  
10' FROM STA. 111+04 TO STA. 112+60 RT.

No. 21606-003, CAD, TS03zoor.dgn, 12/20/2018 3:10:05 PM



ADDENDUMS / REVISIONS	



**HSP SUSSEX COUNTY, ZOAR ROAD, SPEEDWAY ROAD, AND BETHESDA ROAD INTERSECTION IMPROVEMENTS**

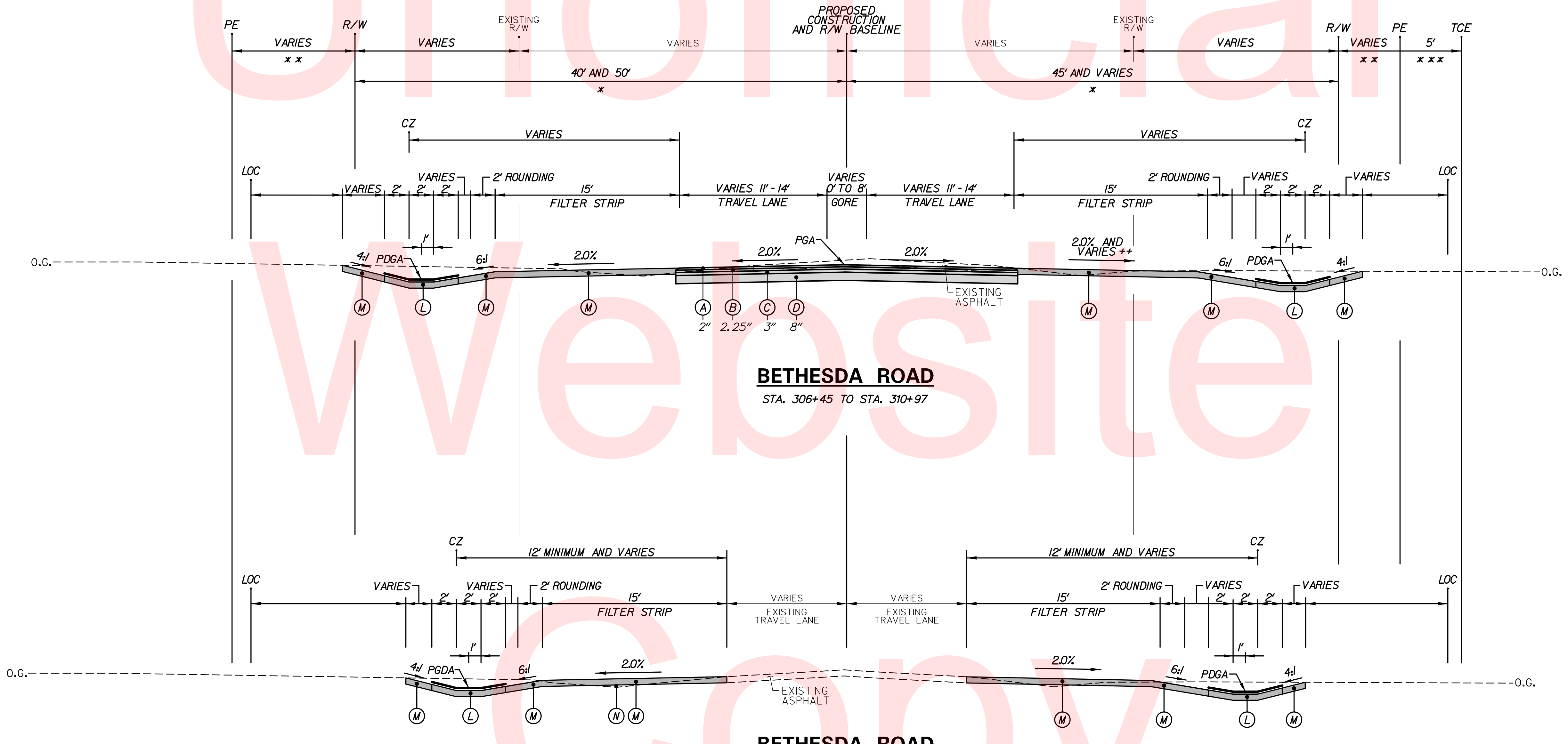
CONTRACT T200811201	BRIDGE NO. N/A
COUNTY SUSSEX	DESIGNED BY: D.A.D. CHECKED BY: J.R.R.

<b>TYPICAL SECTIONS</b>	SHEET NO. 7
	TOTAL SHTS. 42

TS-03
-------

**LEGEND**

- (A) ITEM 401804 - BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS PG 70-22 (CARBONATE STONE)
- (B) ITEM 401813 - BITUMINOUS CONCRETE, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 70-22
- (C) ITEM 401819 - BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (D) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (E) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (F) ITEM 701010 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-B
- (G) ITEM 701013 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-2
- (H) ITEM 701025 - PORTLAND CEMENT CONCRETE CURB, TYPE 2, MODIFIED
- (J) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-4
- (K) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (L) DITCH STABILIZATION (6 FEET WIDE)  
ITEM 908004 - TOPSOIL, 6" DEPTH  
ITEM 908014 - PERMANENT GRASS SEEDING, DRY GROUND  
ITEM 908020 - EROSION CONTROL BLANKET
- (M) ITEM 908004 - TOPSOIL, 6" DEPTH  
ITEM 908014 - PERMANENT GRASS SEEDING, DRY GROUND
- (N) ITEM 209006 - BORROW, TYPE F
- (P) ITEM 209001 - BORROW, TYPE A



**BETHESDA ROAD**  
STA. 306+45 TO STA. 310+97

**BETHESDA ROAD**  
STA. 304+39 TO STA. 306+45

\* **RIGHT-OF-WAY WIDTH**  
40' FROM STA. 304+39 TO STA. 309+00 LT.  
50' FROM STA. 309+00 TO STA. 310+97 LT.  
45' FROM STA. 304+39 TO STA. 310+29 RT.  
VARIES FROM STA. 310+29 TO STA. 310+97 RT.

\*\* **PERMANENT EASEMENT WIDTH**  
VARIES FROM STA. 304+39 TO STA. 305+39 LT.  
15' FROM STA. 305+39 TO STA. 309+00 LT.  
10' FROM STA. 309+00 TO STA. 310+97 LT.  
5' FROM STA. 304+39 TO STA. 309+00 RT.  
10' FROM STA. 309+00 TO STA. 310+43 RT.

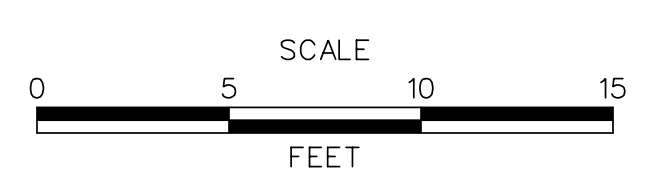
\*\*\* **TEMPORARY CONSTRUCTION EASEMENT WIDTH**  
5' FROM STA. 304+39 TO STA. 309+00 RT.

++ **FILTER STRIP SLOPE**  
2% FROM STA. 306+45 TO STA. 308+00  
VARIES 2% TO 4% FROM STA. 308+00 TO STA. 308+50  
4% FROM STA. 308+50 TO STA. 309+50  
VARIES 4% TO 6% FROM STA. 309+50 TO STA. 310+00  
6% FROM STA. 310+00 TO STA. 310+97

No. 21606-003, CAD, 11/20/2018, 11:04:20 AM



ADDENDUMS / REVISIONS	



**HSP SUSSEX COUNTY, ZOAR ROAD, SPEEDWAY ROAD, AND BETHESDA ROAD INTERSECTION IMPROVEMENTS**

CONTRACT T200811201	BRIDGE NO. N/A
COUNTY SUSSEX	DESIGNED BY: D.A.D.
	CHECKED BY: J.R.R.

<b>TYPICAL SECTIONS</b>	SHEET NO. 8
	TOTAL SHTS. 42

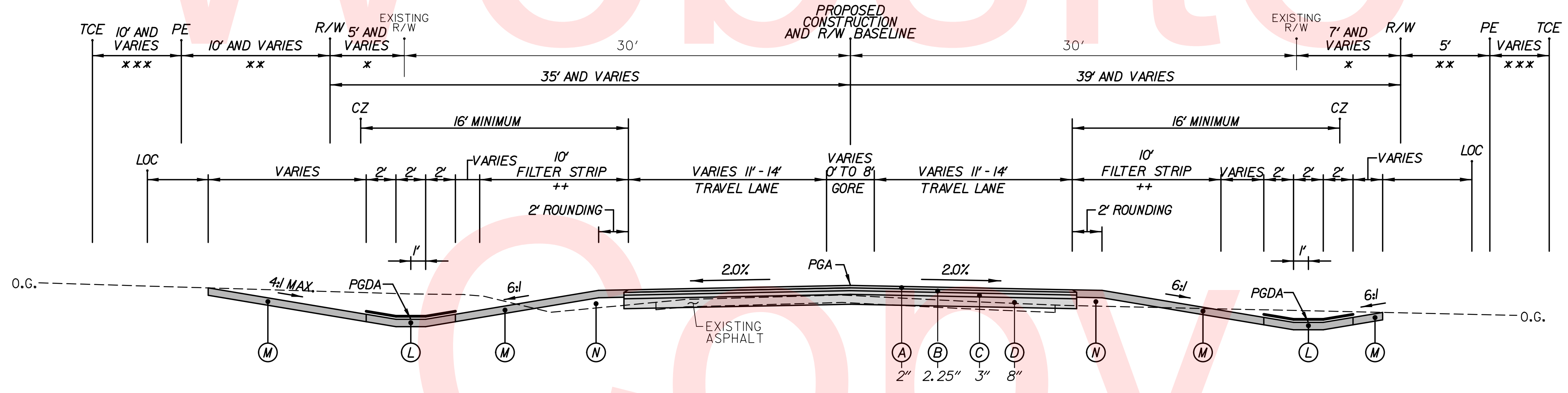


**LEGEND**

- (A) ITEM 401804 - BITUMINOUS CONCRETE, SUPERPAVE, TYPE C, 160 GYRATIONS PG 70-22 (CARBONATE STONE)
- (B) ITEM 401813 - BITUMINOUS CONCRETE, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 70-22
- (C) ITEM 401819 - BITUMINOUS CONCRETE, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (D) ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
- (E) ITEM 501006 - PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (F) ITEM 701010 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-8
- (G) ITEM 701013 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-2
- (H) ITEM 701025 - PORTLAND CEMENT CONCRETE CURB, TYPE 2, MODIFIED
- (J) ITEM 701012 - PORTLAND CEMENT CONCRETE CURB, TYPE 1-4
- (K) ITEM 715001 - PERFORATED PIPE UNDERDRAINS, 6"
- (L) DITCH STABILIZATION (6 FEET WIDE)  
ITEM 908004 - TOPSOIL, 6" DEPTH  
ITEM 908014 - PERMANENT GRASS SEEDING, DRY GROUND  
ITEM 908020 - EROSION CONTROL BLANKET
- (M) ITEM 908004 - TOPSOIL, 6" DEPTH  
ITEM 908014 - PERMANENT GRASS SEEDING, DRY GROUND
- (N) ITEM 209006 - BORROW, TYPE F
- (P) ITEM 209001 - BORROW, TYPE A

Unofficial

Website



\* **RIGHT-OF-WAY WIDTH**  
VARIES FROM STA. 401+61 TO STA. 401+90 LT.  
5' FROM STA. 401+90 TO STA. 403+83 LT.  
VARIES FROM STA. 401+61 TO STA. 402+05 RT.  
7' FROM STA. 402+05 TO STA. 404+08 RT.

\*\* **PERMANENT EASEMENT WIDTH**  
VARIES FROM STA. 401+61 TO STA. 402+00 LT.  
10' FROM STA. 402+00 TO STA. 404+83 LT.  
6' FROM STA. 401+61 TO STA. 403+17 RT.

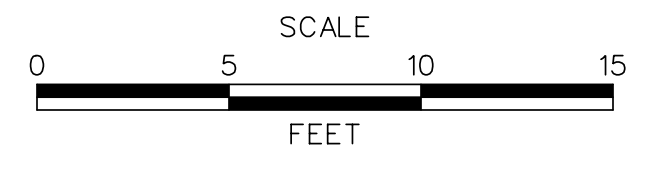
\*\*\* **TEMPORARY CONSTRUCTION EASEMENT WIDTH**  
VARIES FROM STA. 401+61 TO STA. 402+00 LT.  
10' FROM STA. 403+83 TO STA. 404+83 LT.  
VARIES FROM STA. 401+61 TO STA. 405+31 RT.

\*\* **FILTER STRIP LOCATIONS**  
FROM STA. 402+21 TO STA. 403+70 LT.  
FROM STA. 401+61 TO STA. 403+92 RT.

No. 21606-003, CADPA, 1505zcor.dgn, 9/20/2016 3:10:10 PM



ADDENDUMS / REVISIONS



**HSP SUSSEX COUNTY, ZOAR ROAD,  
SPEEDWAY ROAD, AND BETHESDA ROAD  
INTERSECTION IMPROVEMENTS**

CONTRACT T200811201	BRIDGE NO. N/A
COUNTY SUSSEX	DESIGNED BY: D.A.D.
	CHECKED BY: J.R.R.

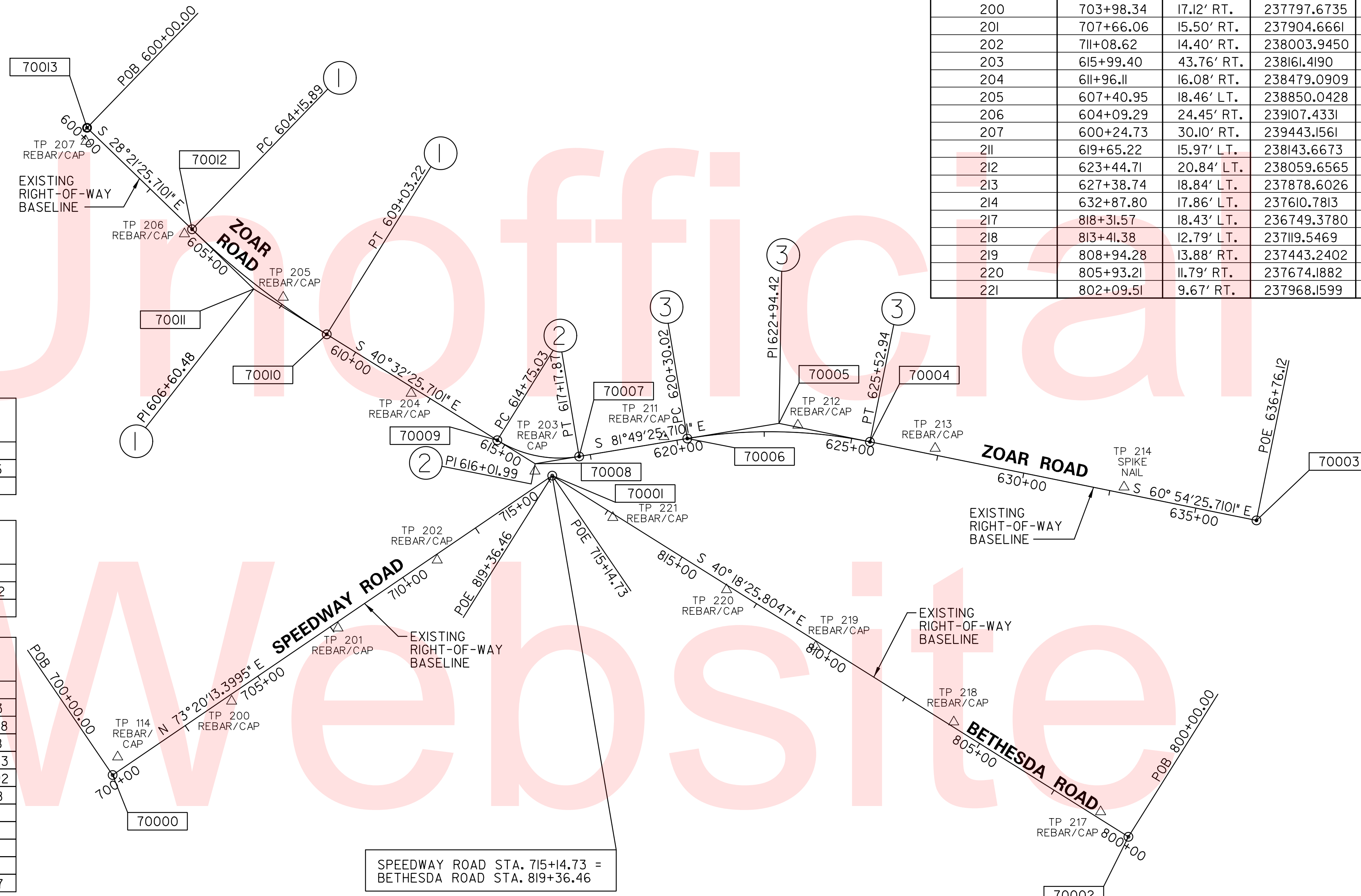
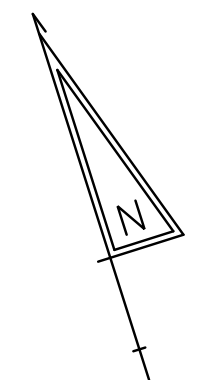
**TYPICAL SECTIONS**

<b>TS-05</b>
SHEET NO. 9
TOTAL SHTS. 42



NOTE: THIS SHEET DEPICTS THE EXISTING RIGHT-OF-WAY BASELINES ONLY.

EXISTING HORIZONTAL / VERTICAL CONTROL DATA					
TRAVERSE POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
114	700+40.94	34.36' LT.	237744.5064	670517.7441	48.66'
200	703+98.34	17.12' RT.	237797.6735	670874.8960	46.61'
201	707+66.06	15.50' RT.	237904.6661	671226.7115	46.28'
202	711+08.62	14.40' RT.	238003.9450	671554.5687	47.47'
203	615+99.40	43.76' RT.	238161.4190	671896.3631	46.89'
204	611+96.11	16.08' RT.	238479.0909	671627.3563	49.78'
205	607+40.95	18.46' LT.	238850.0428	671363.0187	49.51'
206	604+09.29	24.45' RT.	239107.4331	671149.3982	48.84'
207	600+24.73	30.10' RT.	239443.1561	670961.7775	47.62'
211	619+65.22	15.97' LT.	238143.6673	672276.1663	44.59'
212	623+44.71	20.84' LT.	238059.6565	672649.5202	43.72'
213	627+38.74	18.84' LT.	237878.6026	673002.3127	42.43'
214	632+87.80	17.86' LT.	237610.7813	673481.6241	42.92'
217	818+31.57	18.43' LT.	236749.3780	673138.3736	44.22'
218	813+41.38	12.79' LT.	237119.5469	672816.9781	43.06'
219	808+94.28	13.88' RT.	237443.2402	672507.4167	42.42'
220	805+93.21	11.79' RT.	237674.1882	672314.2543	41.92'
221	802+09.51	9.67' RT.	237968.1599	672067.6596	44.45'



EXISTING RIGHT-OF-WAY BASELINE BETHESDA ROAD				
POINT	STATION	OFFSET	NORTHING	EASTING
70002	800+00.00	0.00	238134.1893	671939.5025
70001	819+36.46	0.00	236657.4684	673192.1705

EXISTING RIGHT-OF-WAY BASELINE SPEEDWAY ROAD				
POINT	STATION	OFFSET	NORTHING	EASTING
70000	700+00.00	0.00	237699.8527	670488.3742
70001	715+14.73	0.00	238134.1893	671939.5025

EXISTING RIGHT-OF-WAY BASELINE ZOAR ROAD				
POINT	STATION	OFFSET	NORTHING	EASTING
70003	636+76.12	0.00	237406.3605	673812.2683
70004	625+52.94	0.00	237952.4808	672830.7958
70005	622+94.42	24.20	238081.0405	672599.7518
70006	620+30.02	0.00	238118.6433	672338.0363
70007	617+17.87	0.00	238163.0366	672029.0592
70008	616+01.99	23.12	238181.0926	671903.3888
70009	614+75.03	0.00	238277.5762	671820.8661
70010	609+03.22	0.00	238712.1215	671449.1981
70011	606+60.48	13.01	238897.9949	671290.2201
70012	604+15.89	0.00	239113.2327	671174.0494
70013	600+00.00	0.00	239479.2177	670976.5157

SPEEDWAY ROAD STA. 715+14.73 = BETHESDA ROAD STA. 819+36.46

NOTE:  
1. OFFSETS SHOWN WITH A MINUS SIGN DENOTE LEFT OF THE BASELINE

CIRCULAR CURVE NO. ①			
Element: Circular	STATION	NORTHING	EASTING
PC ( 70012 )	604+15.89	239113.2327	671174.0494
PI ( 70011 )	606+60.48	238897.9949	671290.2201
PT ( 70010 )	609+03.22	238712.1215	671449.1981
Radius:	2291.8155		
Delta:	12°11'00.0000" Left		
Degree of Curvature(Arc):	2°30'00.0616"		
Length:	487.3300		
Tangent:	244.5873		
Chord:	486.4124		
Middle Ordinate:	12.9410		
External:	13.0145		
Tangent Direction:	S 28°21'25.7101" E		
Radial Direction:	S 61°38'34.2899" W		
Chord Direction:	S 34°26'55.7101" E		
Radial Direction:	S 49°27'34.2899" W		
Tangent Direction:	S 40°32'25.7101" E		

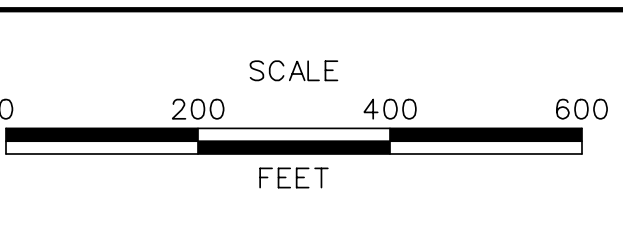
CIRCULAR CURVE NO. ②			
Element: Circular	STATION	NORTHING	EASTING
PC ( 70009 )	614+75.03	238277.5762	671820.8661
PI ( 70008 )	616+01.99	238181.0926	671903.3888
PT ( 70007 )	617+17.87	238163.0366	672029.0592
Radius:	337.0296		
Delta:	41°17'00.0000" Left		
Degree of Curvature(Arc):	17°00'00.7906"		
Length:	242.8400		
Tangent:	126.9609		
Chord:	237.6209		
Middle Ordinate:	21.6361		
External:	23.1204		
Tangent Direction:	S 40°32'25.7101" E		
Radial Direction:	S 49°27'34.2899" W		
Chord Direction:	S 61°10'55.7101" E		
Radial Direction:	S 8°10'34.2899" W		
Tangent Direction:	S 81°49'25.7101" E		

CIRCULAR CURVE NO. ③			
Element: Circular	STATION	NORTHING	EASTING
PC ( 70006 )	620+30.02	238118.6433	672338.0363
PI ( 70005 )	622+94.42	238081.0405	672599.7518
PT ( 70004 )	625+52.94	237952.4808	672830.7958
Radius:	1432.4036		
Delta:	20°55'00.0000" Right		
Degree of Curvature(Arc):	3°59'59.9082"		
Length:	522.9200		
Tangent:	264.4030		
Chord:	520.0211		
Middle Ordinate:	23.7963		
External:	24.1983		
Tangent Direction:	S 81°49'25.7101" E		
Radial Direction:	S 8°10'34.2899" W		
Chord Direction:	S 71°21'55.7101" E		
Radial Direction:	S 29°05'34.2899" W		
Tangent Direction:	S 60°54'25.7101" E		

No. 21616-003.LCADP.HV02zoor.dgn 8/20/2016 3:14:24 PM



ADDENDUMS / REVISIONS	

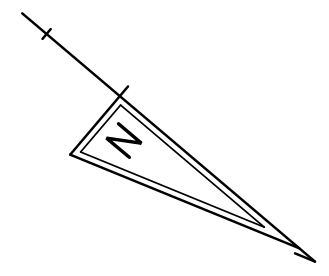


HSP SUSSEX COUNTY, ZOAR ROAD, SPEEDWAY ROAD, AND BETHESDA ROAD INTERSECTION IMPROVEMENTS

CONTRACT T200811201	BRIDGE NO. N/A
COUNTY SUSSEX	DESIGNED BY: B.S.S. CHECKED BY: J.R.R.

**HORIZONTAL AND VERTICAL CONTROL**

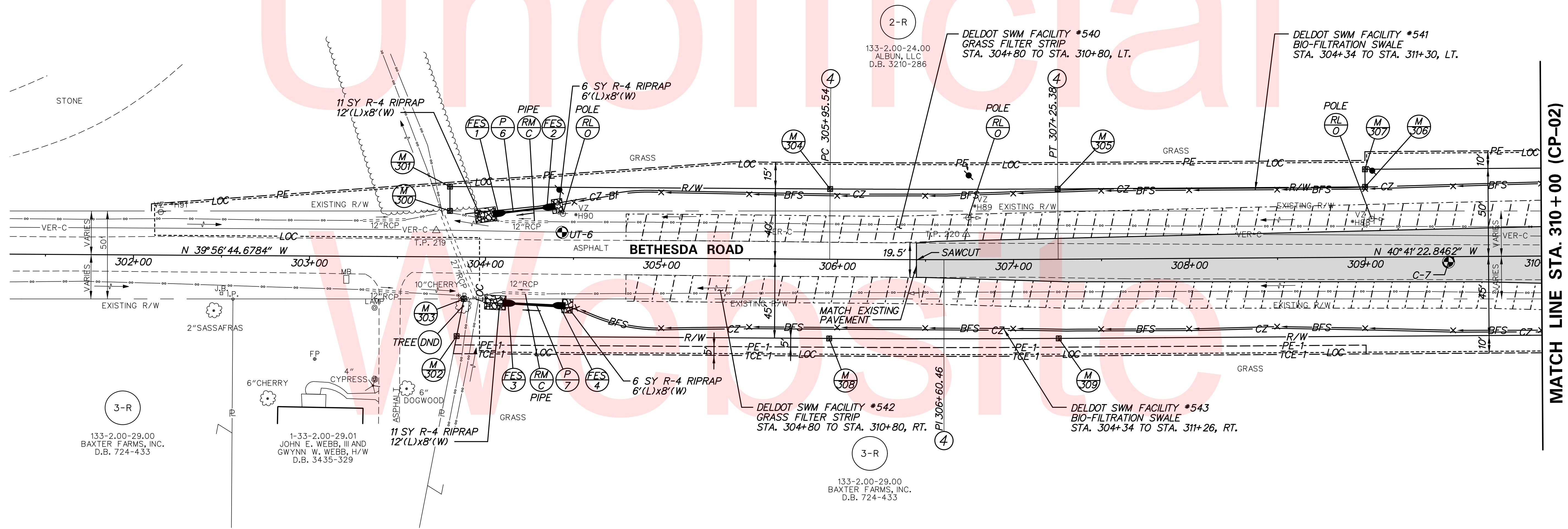
<b>HV-02</b>
SHEET NO. 11
TOTAL SHTS. 42



DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
6	18" RCP	IV	24.0'	0.005	39.45	39.33
7	18" RCP	IV	24.0'	0.005	39.40	39.28

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
1	18" RCP	0.005	NO
2	18" RCP	0.005	NO
3	18" RCP	0.005	NO
4	18" RCP	0.005	NO

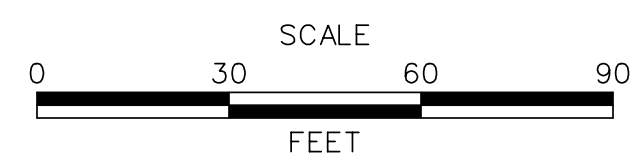
RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
300	CAPPED REBAR	303+79.65	-26.13	237442.0131	672493.8764
301	CAPPED REBAR	303+79.56	-40.00	237433.0399	672483.2983
302	CAPPED REBAR	303+83.88	45.00	237490.9241	672545.6926
303	CAPPED REBAR	303+87.86	23.82	237480.3765	672526.8998
304	CONCRETE	305+95.54	-40.00	237598.6205	672344.6267
305	CONCRETE	307+25.38	-40.00	237697.2236	672260.9527
306	CAPPED REBAR	309+00.00	-40.00	237829.6268	672147.1095
307	CAPPED REBAR	309+00.00	-50.00	237823.1071	672139.5270
308	CONCRETE	305+95.54	45.00	237653.1957	672409.7922
309	CONCRETE	307+25.38	45.00	237752.6404	672325.4041



UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
UT-6	VER-C	304+43.40	14.32' LT.	41.98'	2.85'	2 1/2" TELE. CABLE

ROADWAY CORE SCHEDULE			
C-NO.	STATION	OFFSET	DESCRIPTION
C-7	309+47.1	3.0' RT.	1.25" SURFACE TREATMENT

ADDENDUMS / REVISIONS



HSIP SUSSEX COUNTY, ZOAR ROAD, SPEEDWAY ROAD, AND BETHESDA ROAD INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T200811201	DESIGNED BY:	D.A.D.
COUNTY	CHECKED BY:	J.R.R.
SUSSEX		

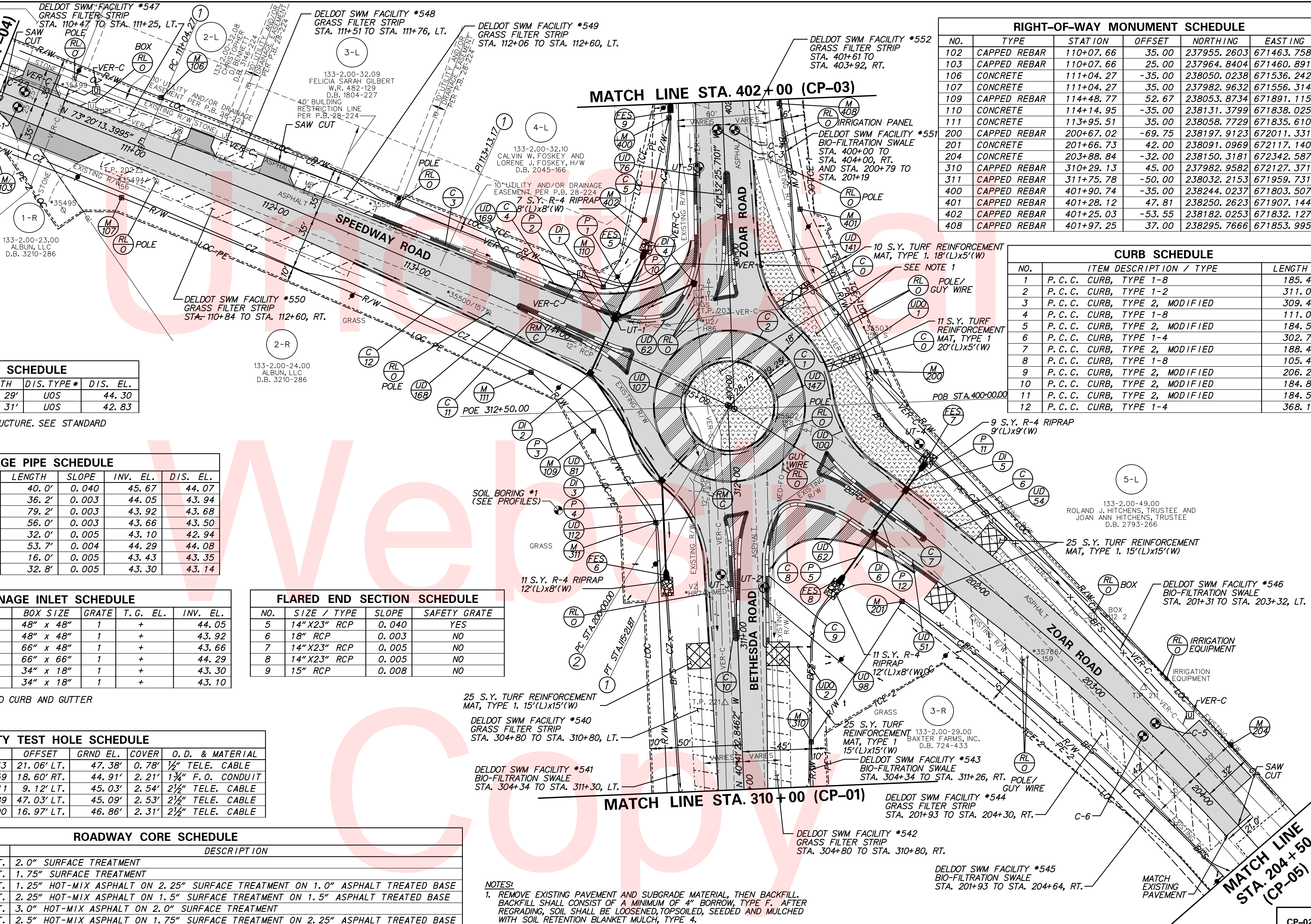
CONSTRUCTION PLAN

CP-01
SHEET NO.
12
TOTAL SHTS.
42

No. 21606-003, CAD, CP01, 2016, 11:24 AM



133-2.00-32.07  
MICHAEL W. CHORMAN  
AND NANCY L.  
CHORMAN, H/W  
D.B. 1684-303



RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
102	CAPPED REBAR	110+07.66	35.00	237955.2603	671463.7584
103	CAPPED REBAR	110+07.66	25.00	237964.8404	671460.8910
106	CONCRETE	111+04.27	-35.00	238050.0238	671536.2424
107	CONCRETE	111+04.27	35.00	237982.9632	671556.3143
109	CAPPED REBAR	114+48.77	52.67	238053.8734	671891.1159
110	CONCRETE	114+14.95	-35.00	238131.3799	671838.0252
111	CONCRETE	113+95.51	35.00	238058.7729	671835.6107
200	CAPPED REBAR	200+67.02	-69.75	238197.9123	672011.3314
201	CONCRETE	201+66.73	42.00	238091.0969	672117.1409
204	CONCRETE	203+88.84	-32.00	238150.3181	672342.5873
310	CAPPED REBAR	310+29.13	45.00	237982.9582	672127.3717
311	CAPPED REBAR	311+75.78	-50.00	238032.2153	671959.7311
400	CAPPED REBAR	401+90.74	-35.00	238244.0237	671803.5078
401	CAPPED REBAR	401+28.12	47.81	238250.2623	671907.1444
402	CAPPED REBAR	401+25.03	-53.55	238182.0253	671832.1274
408	CAPPED REBAR	401+97.25	37.00	238295.7666	671853.9954

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	P.C.C. CURB, TYPE 1-8	185.4'
2	P.C.C. CURB, TYPE 1-2	311.0'
3	P.C.C. CURB, TYPE 2, MODIFIED	309.4'
4	P.C.C. CURB, TYPE 1-8	111.0'
5	P.C.C. CURB, TYPE 2, MODIFIED	184.5'
6	P.C.C. CURB, TYPE 1-4	302.7'
7	P.C.C. CURB, TYPE 2, MODIFIED	188.4'
8	P.C.C. CURB, TYPE 1-8	105.4'
9	P.C.C. CURB, TYPE 2, MODIFIED	206.2'
10	P.C.C. CURB, TYPE 2, MODIFIED	184.8'
11	P.C.C. CURB, TYPE 2, MODIFIED	184.5'
12	P.C.C. CURB, TYPE 1-4	368.1'

UNDERDRAIN SCHEDULE				
NO.	SIZE / TYPE	LENGTH	DIS. TYPE*	DIS. EL.
1	6" PEP	29'	UOS	44.30
2	6" PEP	31'	UOS	42.83

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
1	14" X23" RCP	V	40.0'	0.040	45.67	44.07
2	14" X23" RCP	V	36.2'	0.003	44.05	43.94
3	14" X23" RCP	V	79.2'	0.003	43.92	43.68
4	18" RCP	IV	56.0'	0.003	43.66	43.50
5	14" X23" RCP	V	32.0'	0.005	43.10	42.94
10	14" X23" RCP	V	53.7'	0.004	44.29	44.08
11	14" X23" RCP	V	16.0'	0.005	43.43	43.35
12	14" X23" RCP	V	32.8'	0.005	43.30	43.14

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
1	114+30.22	++	48" x 48"	1	+	44.05
2	114+30.80	++	48" x 48"	1	+	43.92
3	312+02.89	++	66" x 48"	1	+	43.66
4	400+83.06	++	66" x 66"	1	+	44.29
5	201+25.06	++	34" x 18"	1	+	43.30
6	201+24.94	++	34" x 18"	1	+	43.10

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
5	14" X23" RCP	0.040	YES
6	18" RCP	0.003	NO
7	14" X23" RCP	0.005	NO
8	14" X23" RCP	0.005	NO
9	15" RCP	0.008	NO

UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
UT-1	VER-C	114+30.33	21.06' LT.	47.38'	0.78'	1/2" TELE. CABLE
UT-2	MED-FO	311+30.59	18.60' RT.	44.91'	2.21'	1 3/4" F.O. CONDUIT
UT-3	VER-C	311+40.11	9.12' LT.	45.03'	2.54'	2 1/2" TELE. CABLE
UT-4	VER-C	201+14.89	47.03' LT.	45.09'	2.53'	2 1/2" TELE. CABLE
UT-5	VER-C	401+58.00	16.97' LT.	46.86'	2.31'	2 1/2" TELE. CABLE

ROADWAY CORE SCHEDULE			
C-NO.	STATION	OFFSET	DESCRIPTION
C-1	110+20.0	5.0' RT.	2.0" SURFACE TREATMENT
C-2	110+20.0	5.0' LT.	1.75" SURFACE TREATMENT
C-3	401+80.0	5.0' LT.	1.25" HOT-MIX ASPHALT ON 2.25" SURFACE TREATMENT ON 1.0" ASPHALT TREATED BASE
C-4	401+80.0	5.0' RT.	2.25" HOT-MIX ASPHALT ON 1.5" SURFACE TREATMENT ON 1.5" ASPHALT TREATED BASE
C-5	203+45.0	5.0' RT.	3.0" HOT-MIX ASPHALT ON 2.0" SURFACE TREATMENT
C-6	203+45.0	5.0' LT.	2.5" HOT-MIX ASPHALT ON 1.75" SURFACE TREATMENT ON 2.25" ASPHALT TREATED BASE

NOTES:  
1. REMOVE EXISTING PAVEMENT AND SUBGRADE MATERIAL, THEN BACKFILL. BACKFILL SHALL CONSIST OF A MINIMUM OF 4" BORROW, TYPE F. AFTER REGRADING, SOIL SHALL BE LOOSENEED, TOPSOILED, SEEDED AND MULCHED WITH SOIL RETENTION BLANKET MULCH, TYPE 4.

**DELAWARE**  
DEPARTMENT OF TRANSPORTATION

SCALE  
0 30 60 90  
FEET

**HSP SUSSEX COUNTY, ZOAR ROAD,  
SPEEDWAY ROAD, AND BETHESDA ROAD  
INTERSECTION IMPROVEMENTS**

CONTRACT	T200811201	BRIDGE NO.	N/A
COUNTY	SUSSEX	DESIGNED BY:	D.A.D.
		CHECKED BY:	J.R.R.

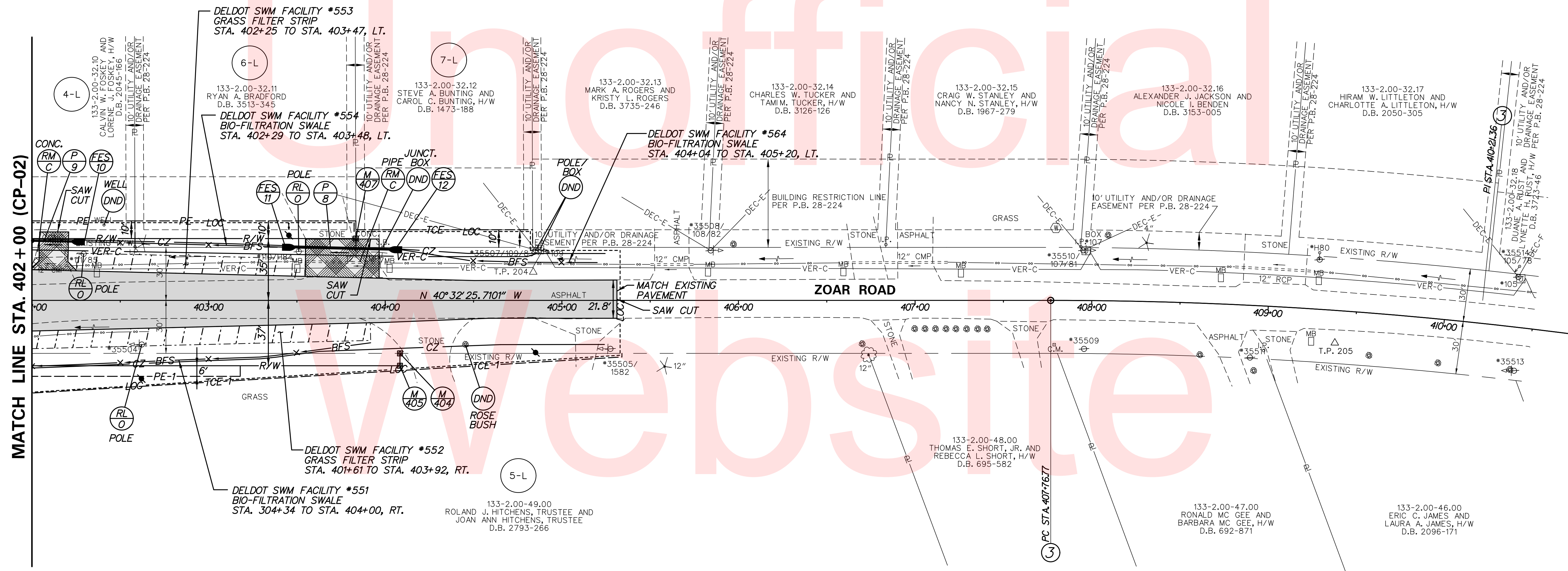
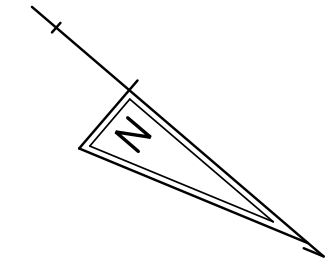
**CONSTRUCTION PLAN**

SHEET NO.	13
TOTAL SHTS.	42

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
404	CAPPED REBAR	404+08.36	30.00	238451.6499	671711.4568
405	CAPPED REBAR	404+08.36	37.00	238456.1998	671716.7764
407	CAPPED REBAR	403+83.39	-35.00	238390.4241	671678.2910

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
8	15" RCP	IV	56.0'	0.006	47.75	47.41
9	15" RCP	IV	24.0'	0.008	46.43	46.24

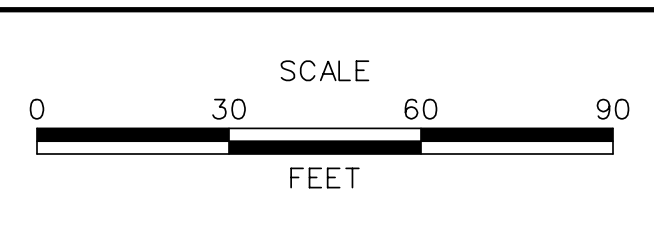
FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
10	15" RCP	0.008	NO
11	15" RCP	0.006	NO
12	15" RCP	0.006	NO



No. 21606-003, CAD, CP03zoor.dgn  
9/20/2016 3:14:41 PM



ADDENDUMS / REVISIONS



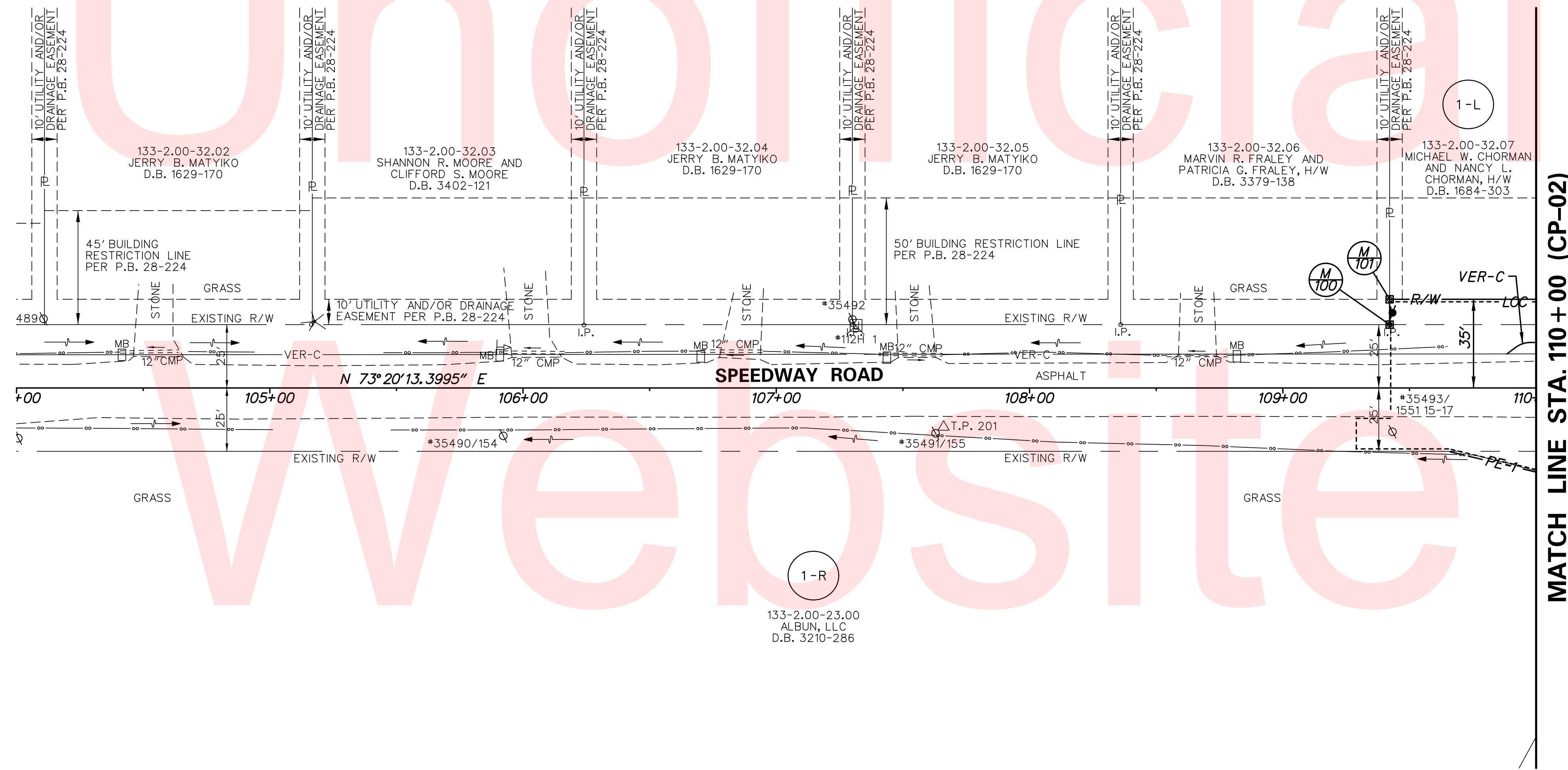
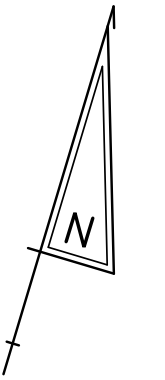
**HSP SUSSEX COUNTY, ZOAR ROAD,  
SPEEDWAY ROAD, AND BETHESDA ROAD  
INTERSECTION IMPROVEMENTS**

CONTRACT T200811201	BRIDGE NO. N/A
COUNTY SUSSEX	DESIGNED BY: D.A.D.
	CHECKED BY: J.R.R.

<b>CONSTRUCTION PLAN</b>	SHEET NO. 14
	TOTAL SHTS. 42

CP-03
-------

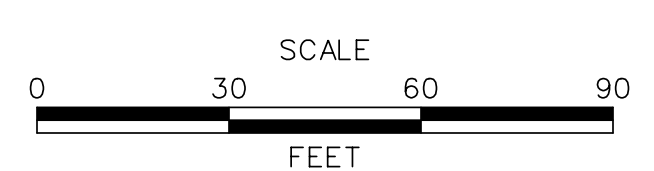
RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
100	CAPPED REBAR	109+42.19	-25.00	237993.9671	671383.8305
101	CAPPED REBAR	109+42.19	-35.00	238003.5472	671380.9631



No. 21606-003\CADD\CP04\zocr.dgn  
9/20/2016 3:14:41 PM



ADDENDUMS / REVISIONS	

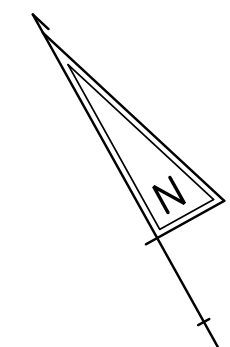


**HSP SUSSEX COUNTY, ZOAR ROAD,  
SPEEDWAY ROAD, AND BETHESDA ROAD  
INTERSECTION IMPROVEMENTS**

CONTRACT T200811201	BRIDGE NO. N/A
COUNTY SUSSEX	DESIGNED BY: D.A.D.
	CHECKED BY: J.R.R.

**CONSTRUCTION PLAN**

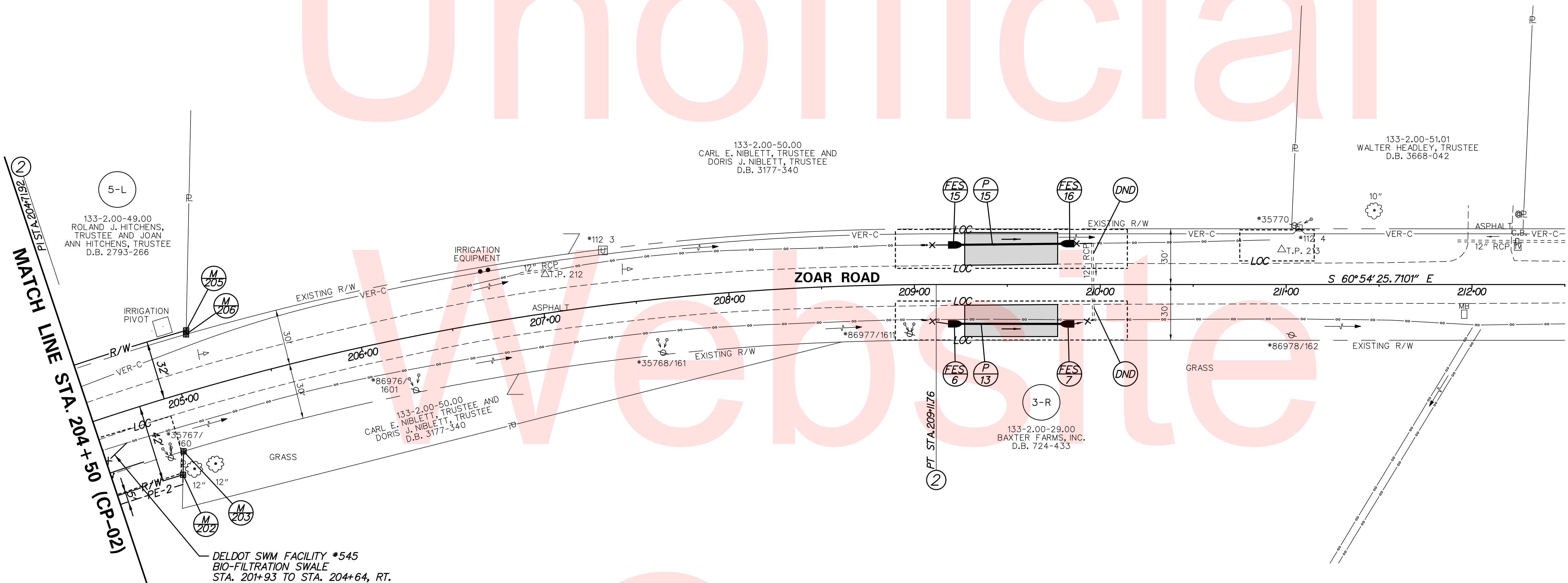
<b>CP-04</b>
SHEET NO. 15
TOTAL SHTS. 42



DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INV. EL.	DIS. EL.
13	15" RCP	V	56.0'	0.004	40.99	40.77
15	15" RCP	V	56.0'	0.006	41.36	41.02

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
202	CONCRETE	204+88.12	42.00	238060.0724	672426.8970
203	CONCRETE	204+92.14	30.00	238070.9703	672433.2678
205	CONCRETE	205+11.80	-32.00	238127.1253	672466.0953
206	CONCRETE	205+11.19	-30.00	238125.3176	672465.0385

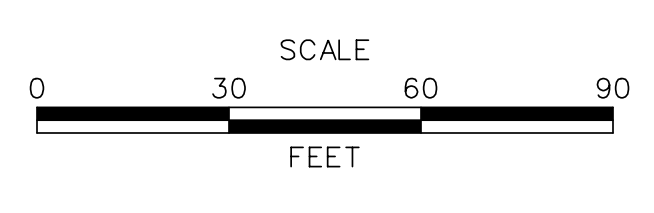
FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
6	15" RCP	0.004	NO
7	15" RCP	0.004	NO
15	15" RCP	0.006	NO
16	15" RCP	0.006	NO



No. 21606-003.10.dwg CP-05zocr.dgn  
 2/20/2016 3:15:15 PM



ADDENDUMS / REVISIONS	



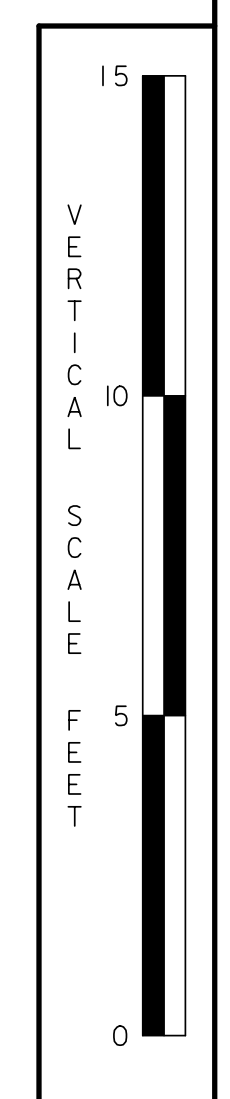
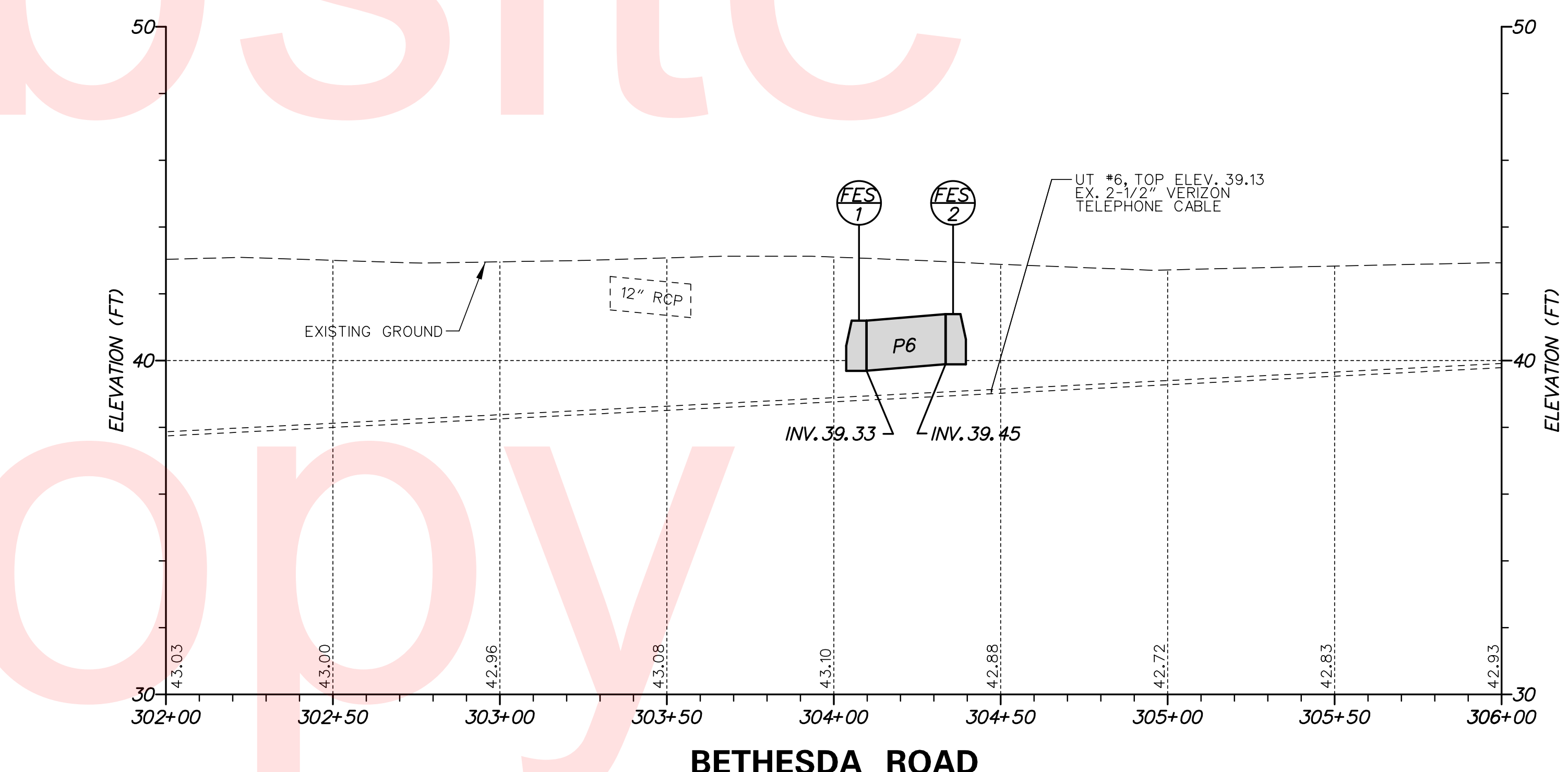
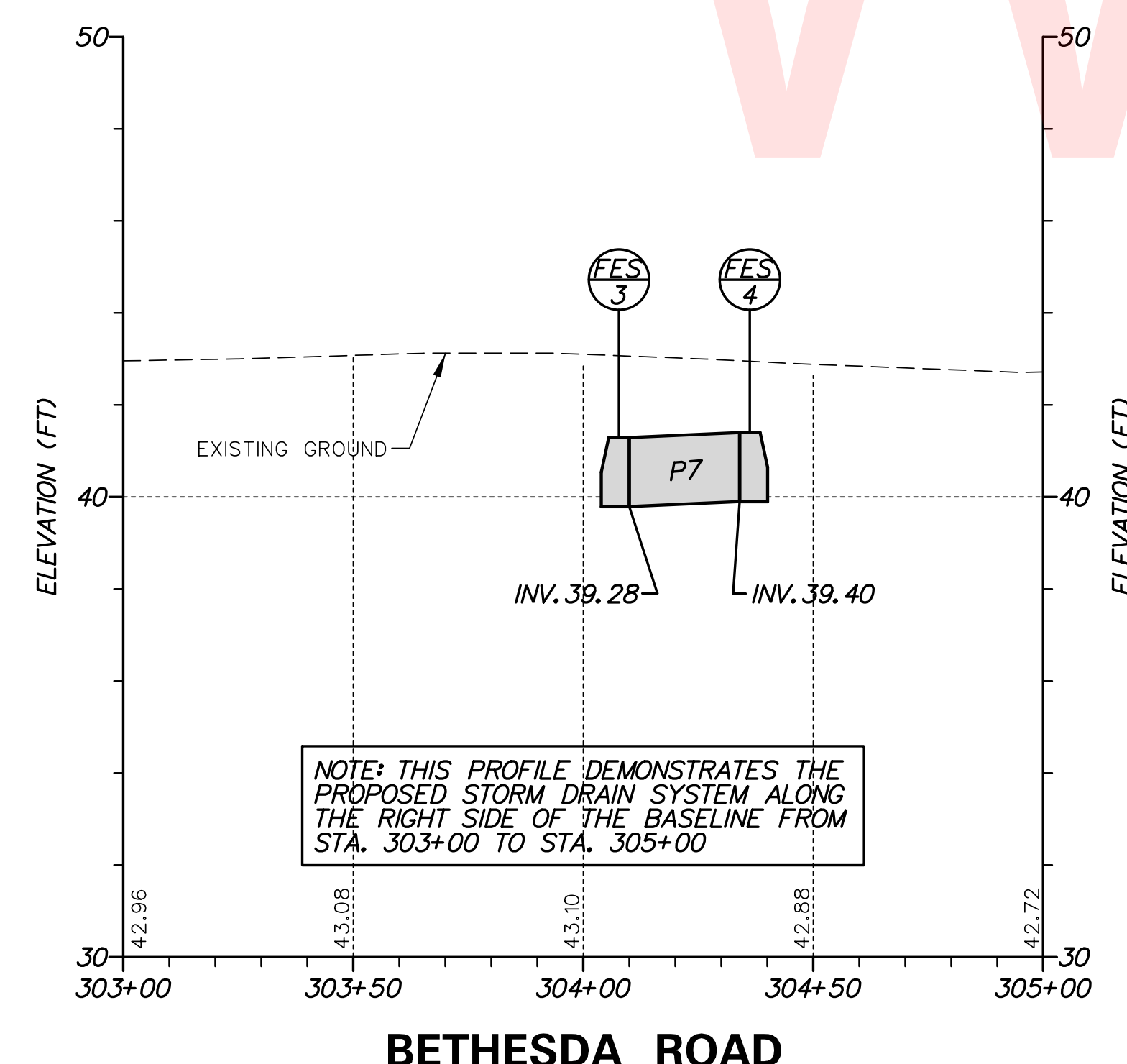
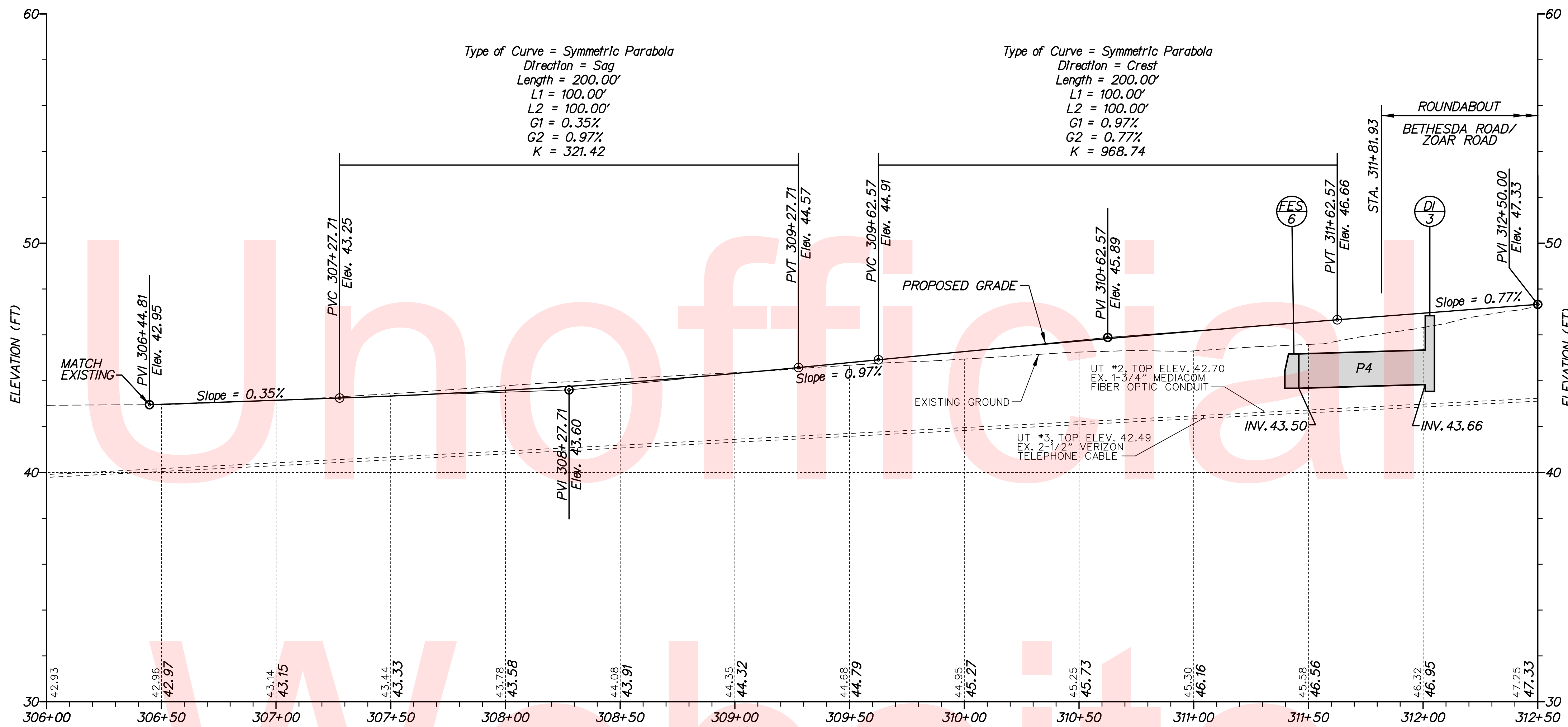
**HSIP SUSSEX COUNTY, ZOAR ROAD,  
 SPEEDWAY ROAD, AND BETHESDA ROAD  
 INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T200811201	DESIGNED BY:	D.A.D.
COUNTY	CHECKED BY:	J.R.R.
SUSSEX		

**CONSTRUCTION PLAN**

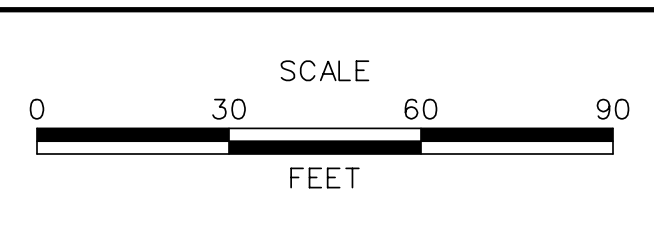
CP-05
SHEET NO.
16
TOTAL SHTS.
42



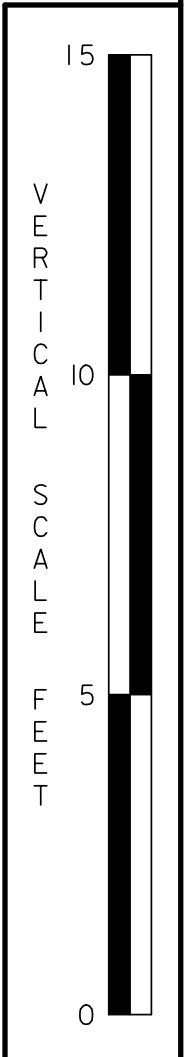
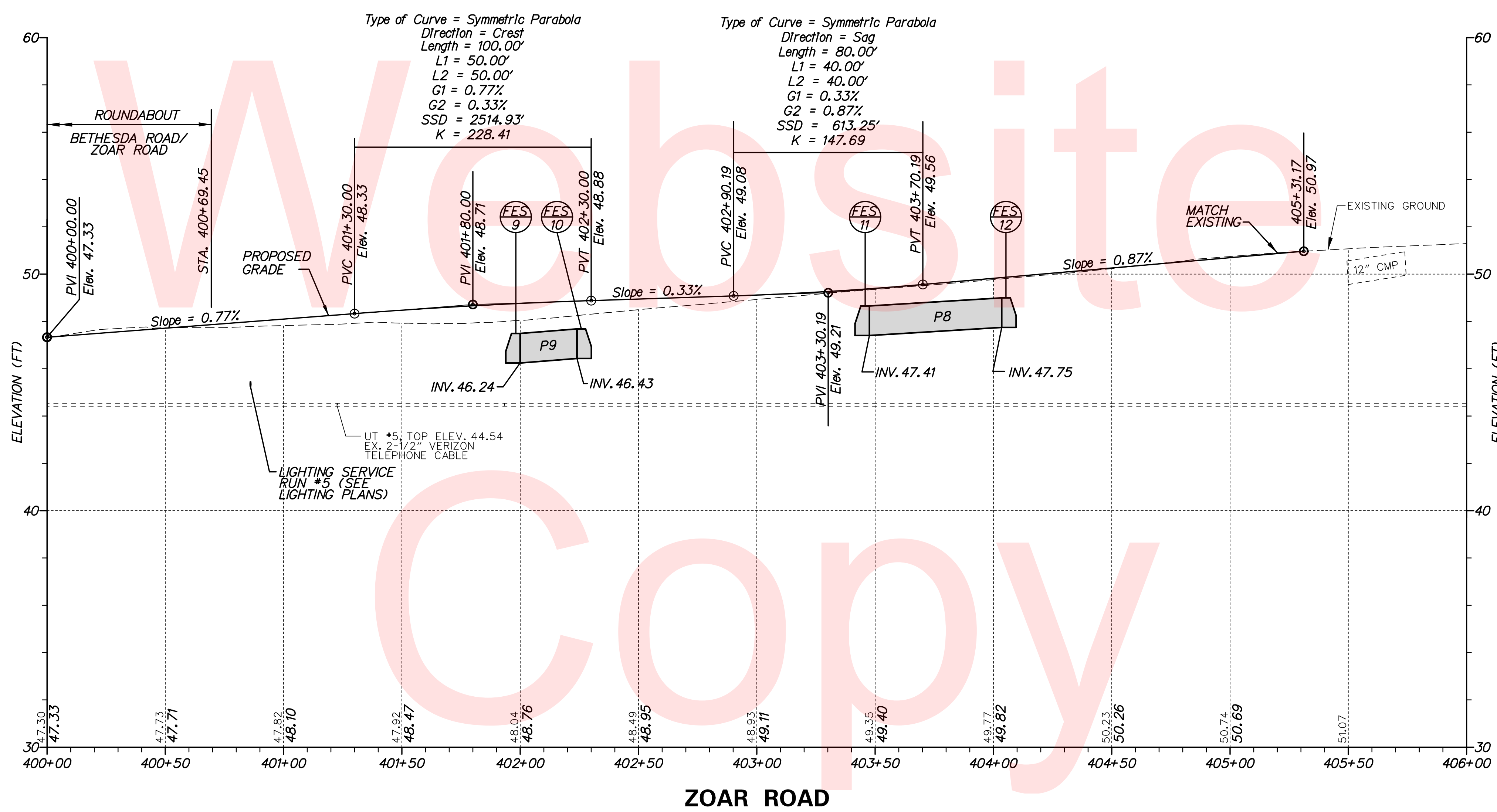
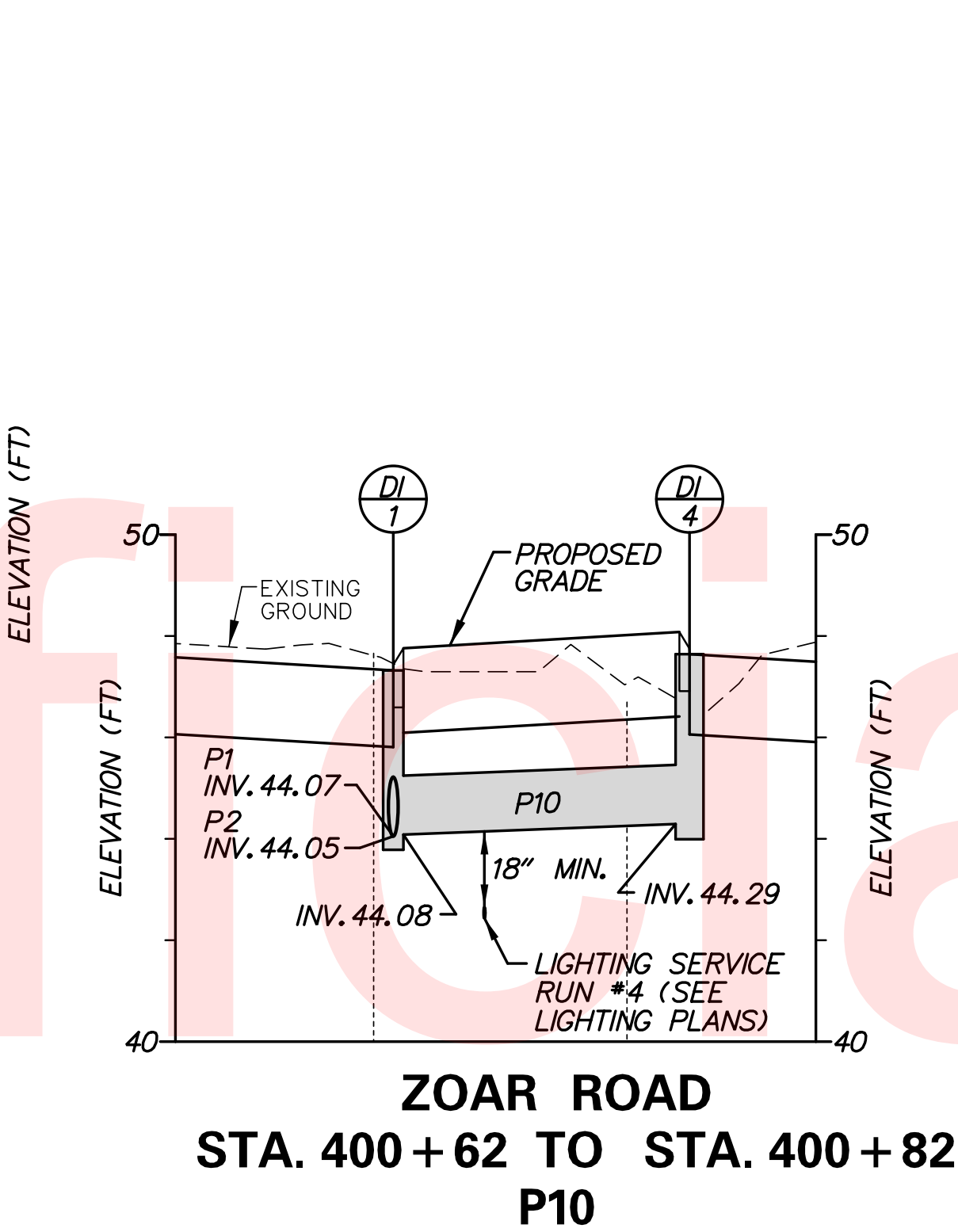
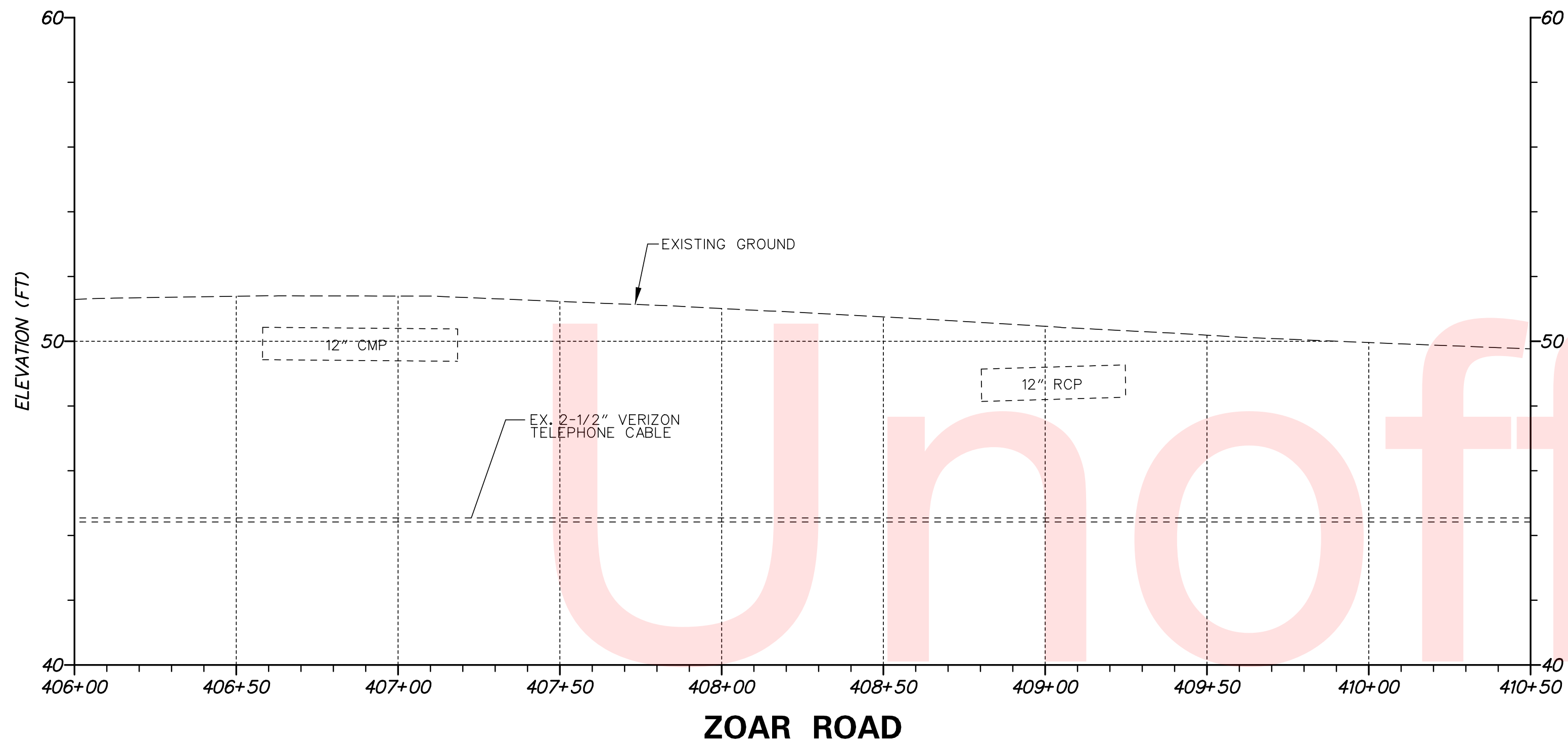


No. 21606-003, CAD, D:\PF01zoad.dgn  
 9/20/2016 3:15:15 PM

ADDENDUMS / REVISIONS	



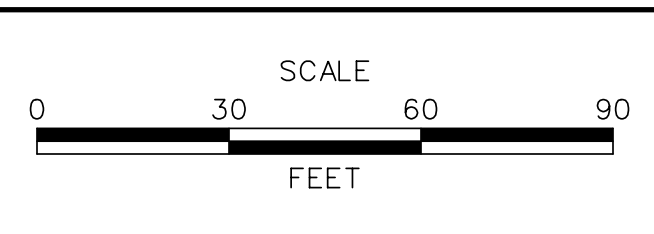
CONTRACT T200811201	BRIDGE NO. N/A
COUNTY SUSSEX	DESIGNED BY: D.A.D.
	CHECKED BY: J.R.R.



No. 21606-003, CAD, PFD, Zoar.dgn  
9/20/2016 3:18:16 PM



ADDENDUMS / REVISIONS	

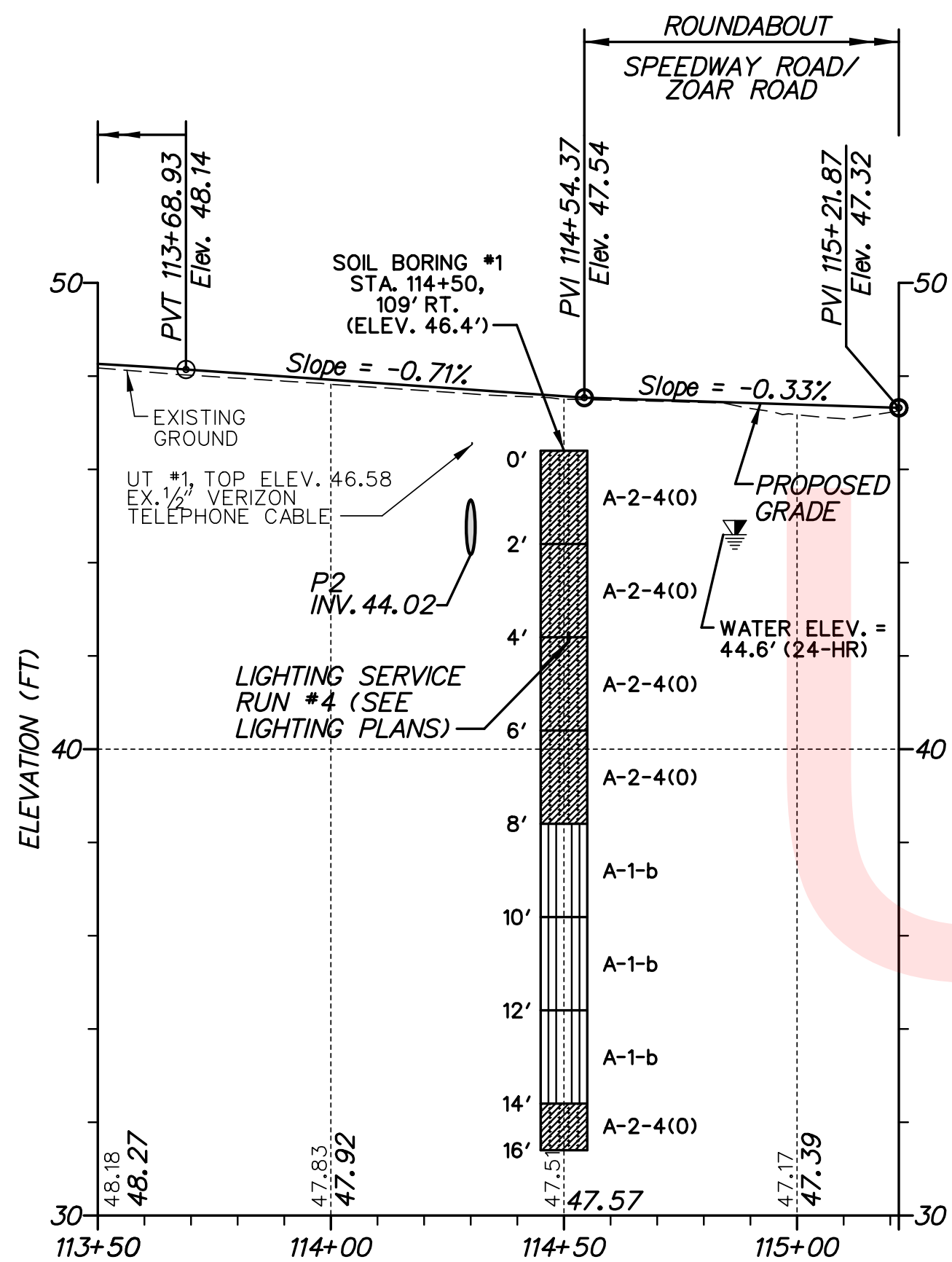


**HSIP SUSSEX COUNTY, ZOAR ROAD,  
SPEEDWAY ROAD, AND BETHESDA ROAD  
INTERSECTION IMPROVEMENTS**

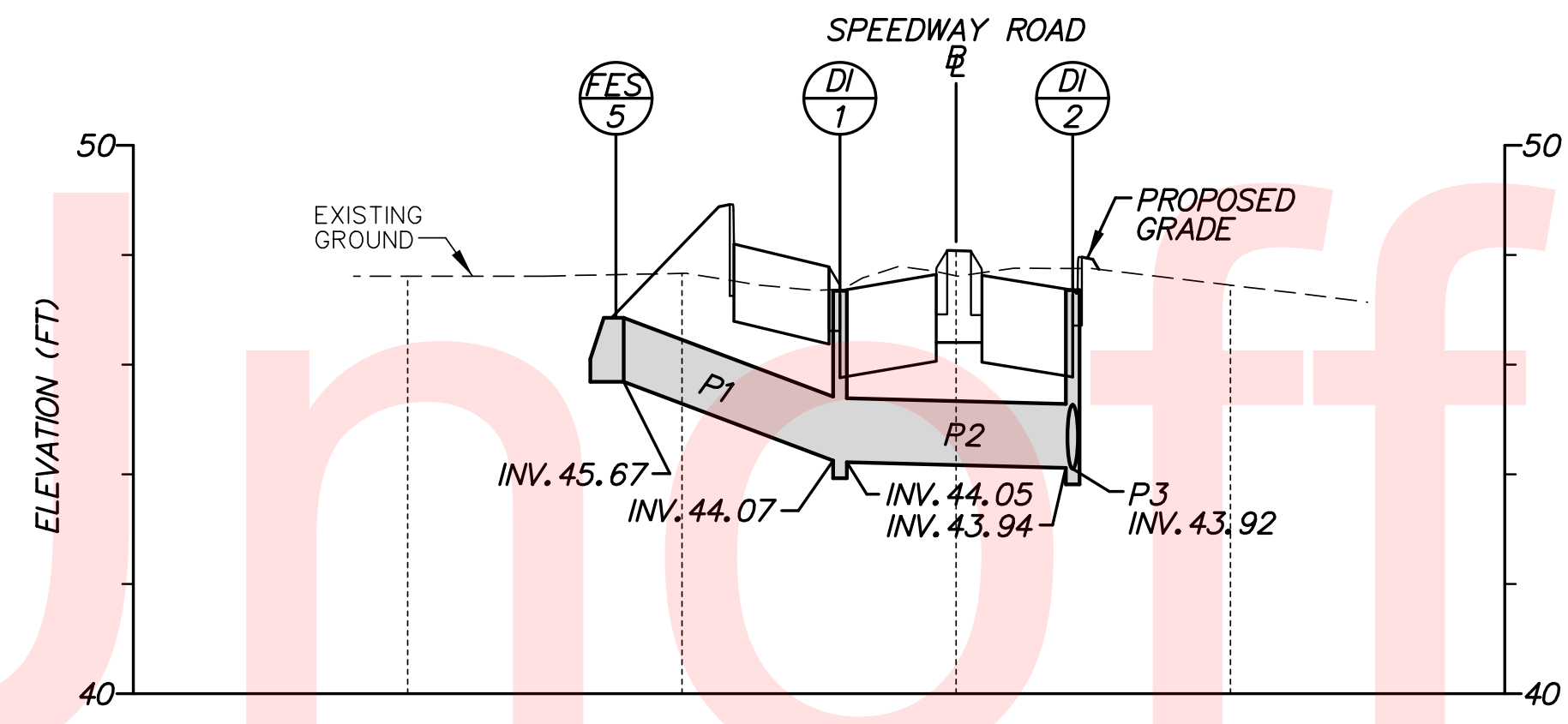
CONTRACT T200811201	BRIDGE NO. N/A
COUNTY SUSSEX	DESIGNED BY: D.A.D.
	CHECKED BY: J.R.R.

<b>PROFILES</b>	SHEET NO. 18
	TOTAL SHTS. 42

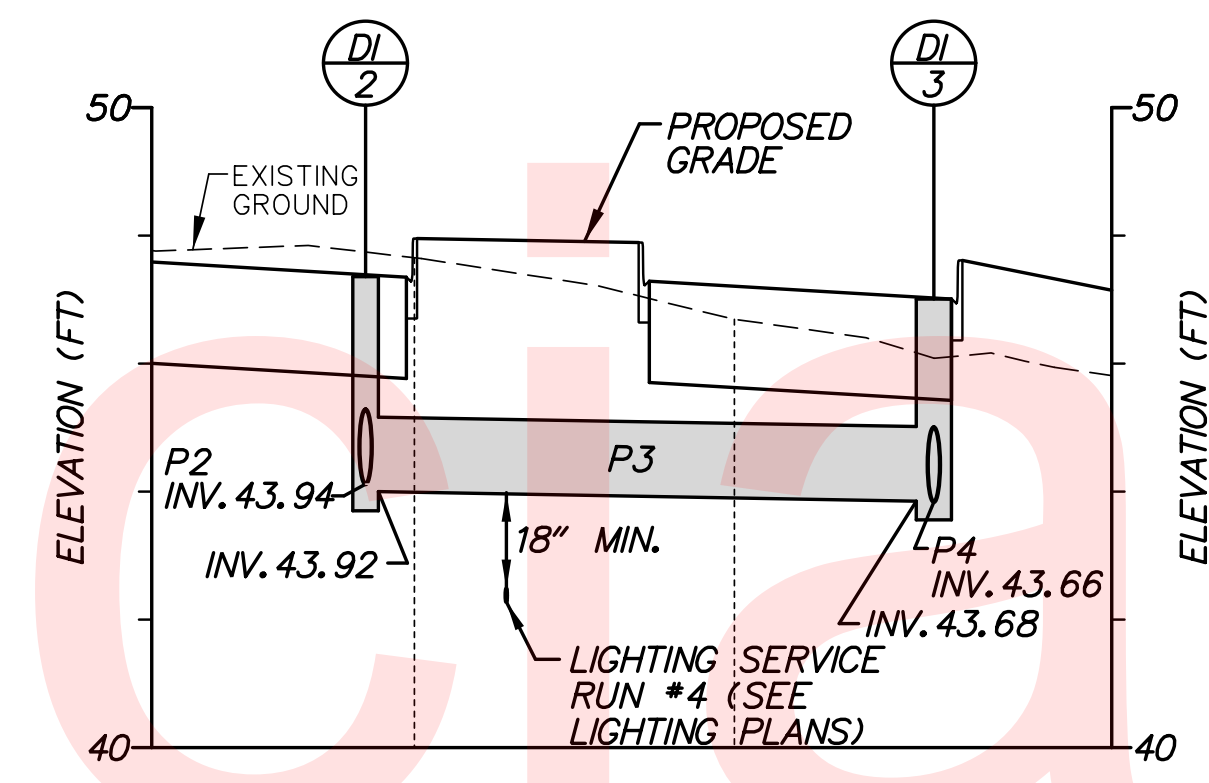
PF-02



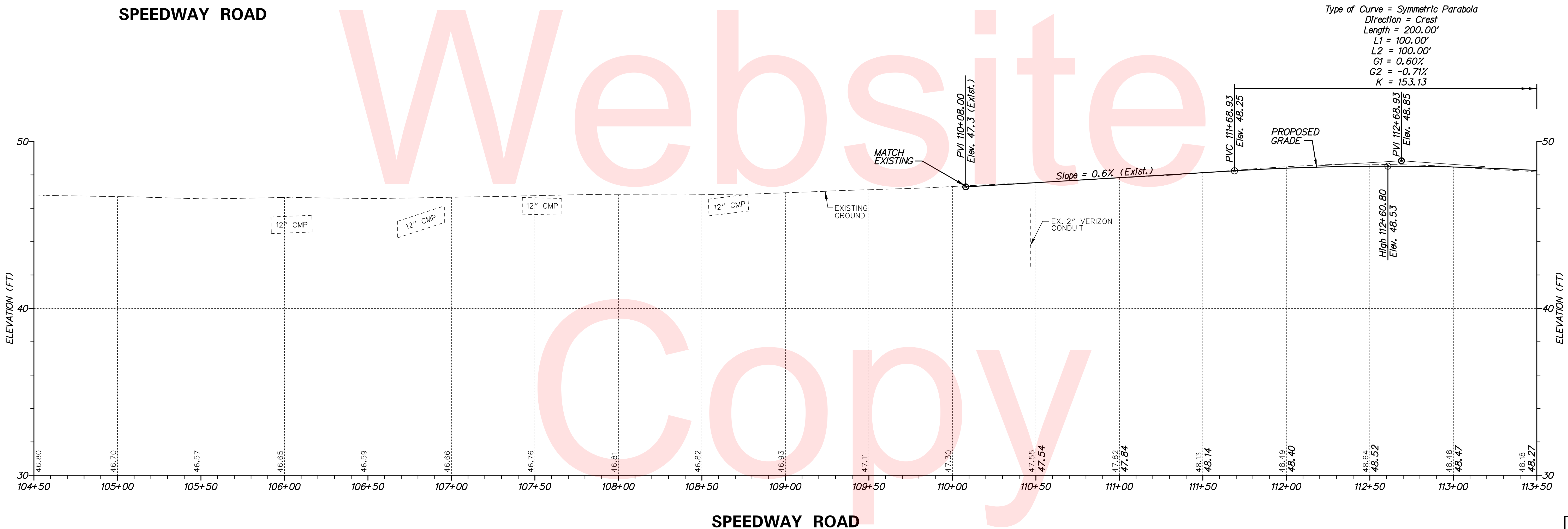
**SPEEDWAY ROAD**



**SPEEDWAY ROAD  
STA. 114+30  
P1 AND P2**

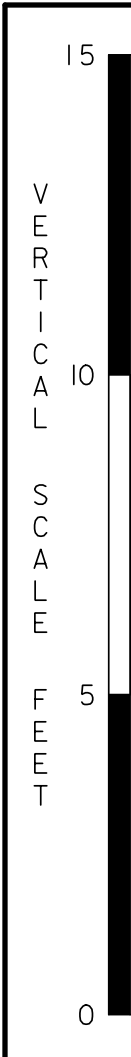


**SPEEDWAY ROAD  
STA. 114+30 TO STA. 105+03  
P3**



**SPEEDWAY ROAD**

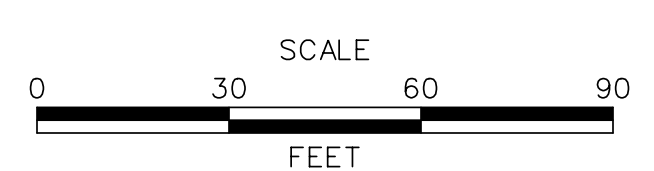
Type of Curve = Symmetric Parabola  
 Direction = Crest  
 Length = 200.00'  
 L1 = 100.00'  
 L2 = 100.00'  
 G1 = 0.60%  
 G2 = -0.71%  
 K = 153.13



No. 21606-003.CADD\PF03.zocr.dgn  
9/20/2016 3:17:17 PM



ADDENDUMS / REVISIONS	

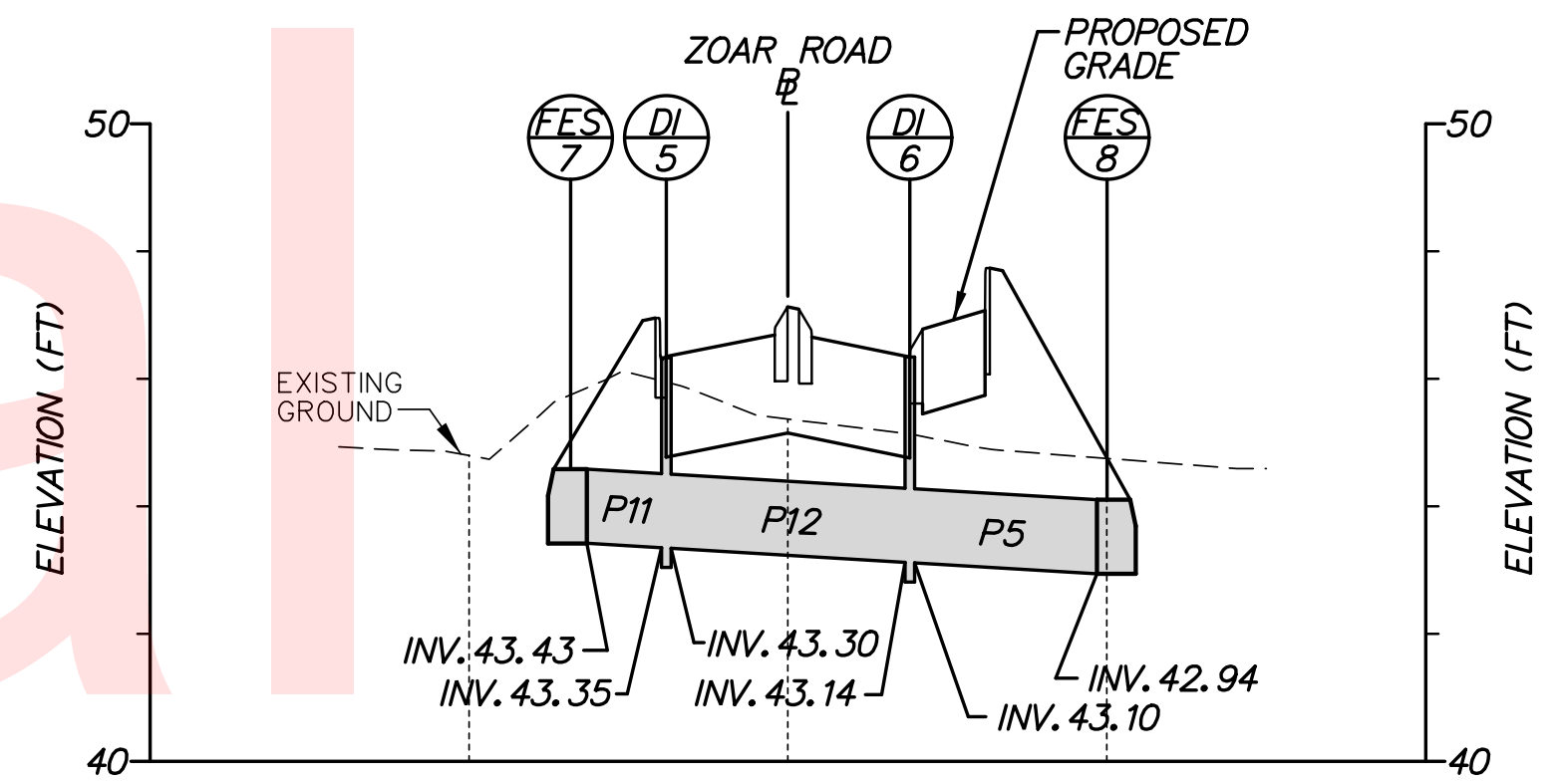
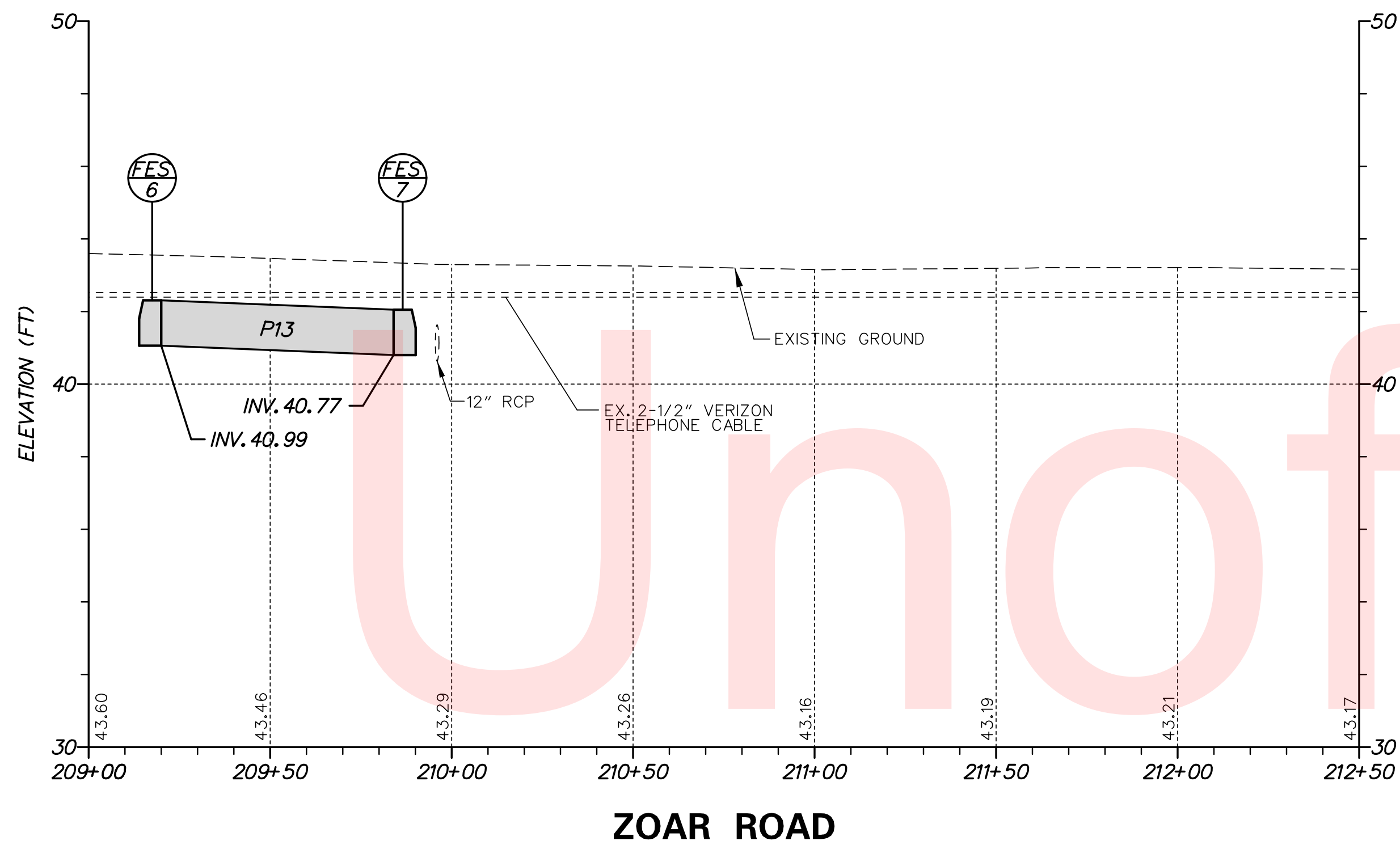


**HSIP SUSSEX COUNTY, ZOAR ROAD,  
SPEEDWAY ROAD, AND BETHESDA ROAD  
INTERSECTION IMPROVEMENTS**

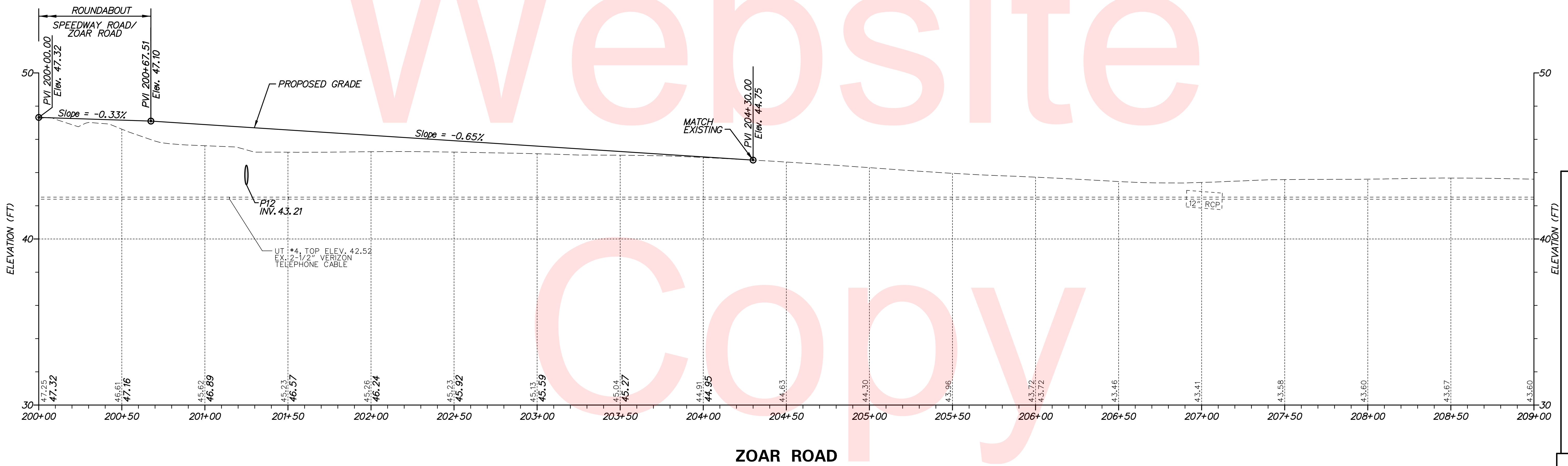
CONTRACT T200811201	BRIDGE NO. N/A
COUNTY SUSSEX	DESIGNED BY: D.A.D. CHECKED BY: J.R.R.

<b>PROFILES</b>	SHEET NO. 19
	TOTAL SHTS. 42

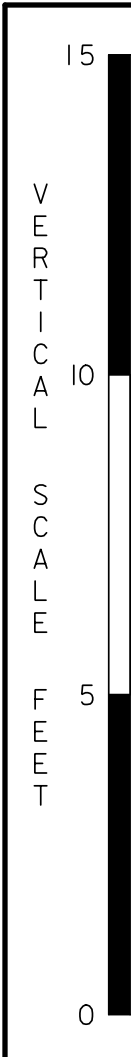
**PF-03**



**ZOAR ROAD  
STA. 201+25  
P5, P11 AND P12**



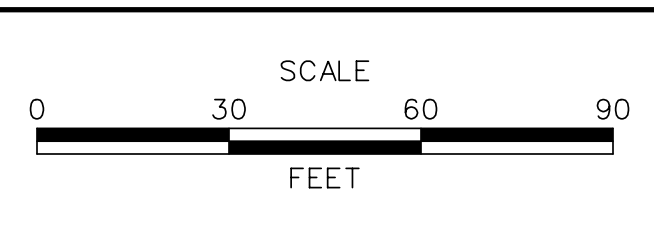
**ZOAR ROAD**



No. 1606-003.CADD\PF04zoar.dgn  
3/20/2016 3:17:17 PM



ADDENDUMS / REVISIONS	



**HSP SUSSEX COUNTY, ZOAR ROAD,  
SPEEDWAY ROAD, AND BETHESDA ROAD  
INTERSECTION IMPROVEMENTS**

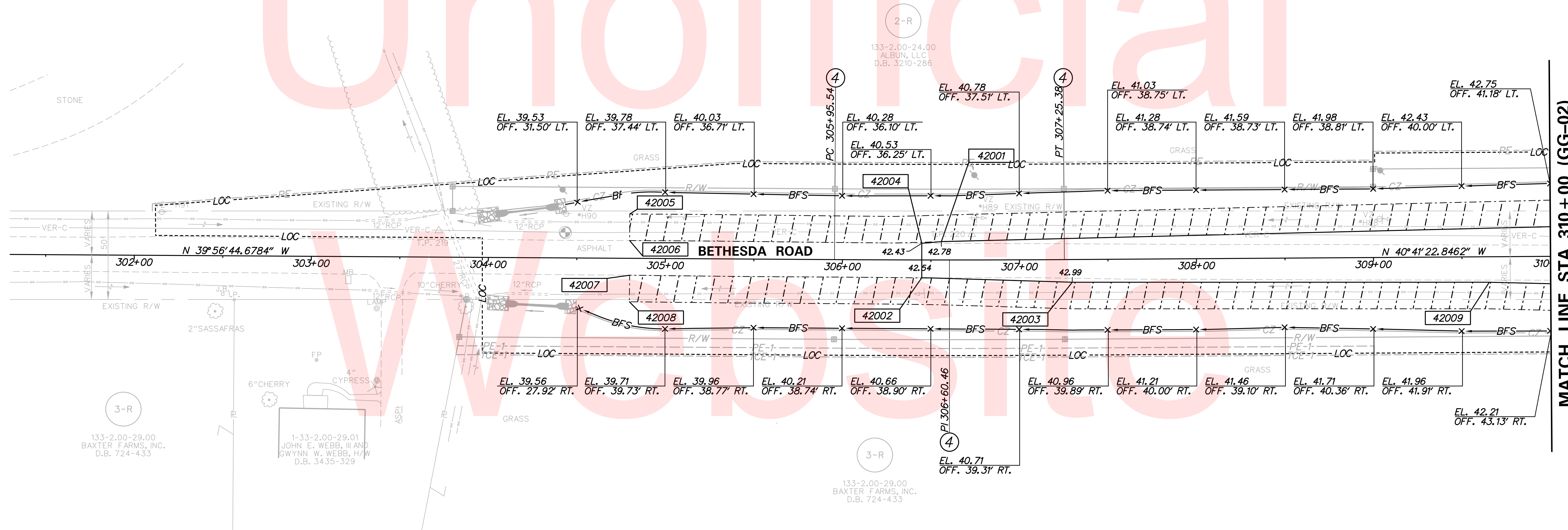
CONTRACT T200811201	BRIDGE NO. N/A
COUNTY SUSSEX	DESIGNED BY: D.A.D. CHECKED BY: J.R.R.

<b>PROFILES</b>	SHEET NO. 20
	TOTAL SHTS. 42

**PF-04**

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
42001	306+55.91	-10.38	237663.7519	672328.4751
42002	306+44.83	10.09	237668.5299	672351.2528
42003	307+29.74	12.82	237734.9633	672298.1695
42004	306+44.81	-9.43	237655.9062	672336.3712
42005	304+79.73	-25.04	237519.4382	672430.4604
42006	304+79.75	-10.04	237529.0908	672441.9420
42007	304+79.88	9.53	237541.7494	672456.8647
42008	304+79.83	24.53	237551.3443	672468.3947
42009	309+65.32	14.40	237914.6265	672145.7712

NOTE:  
1. OFFSETS SHOWN WITH A MINUS SIGN DENOTE LEFT OF THE BASELINE

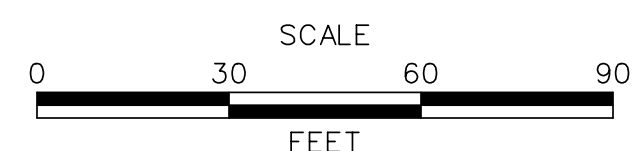


MATCH LINE STA. 310+00 (GG-02)

No. 21606-003.1.dwg, 12/20/2016 3:18:18 PM



ADDENDUMS / REVISIONS	

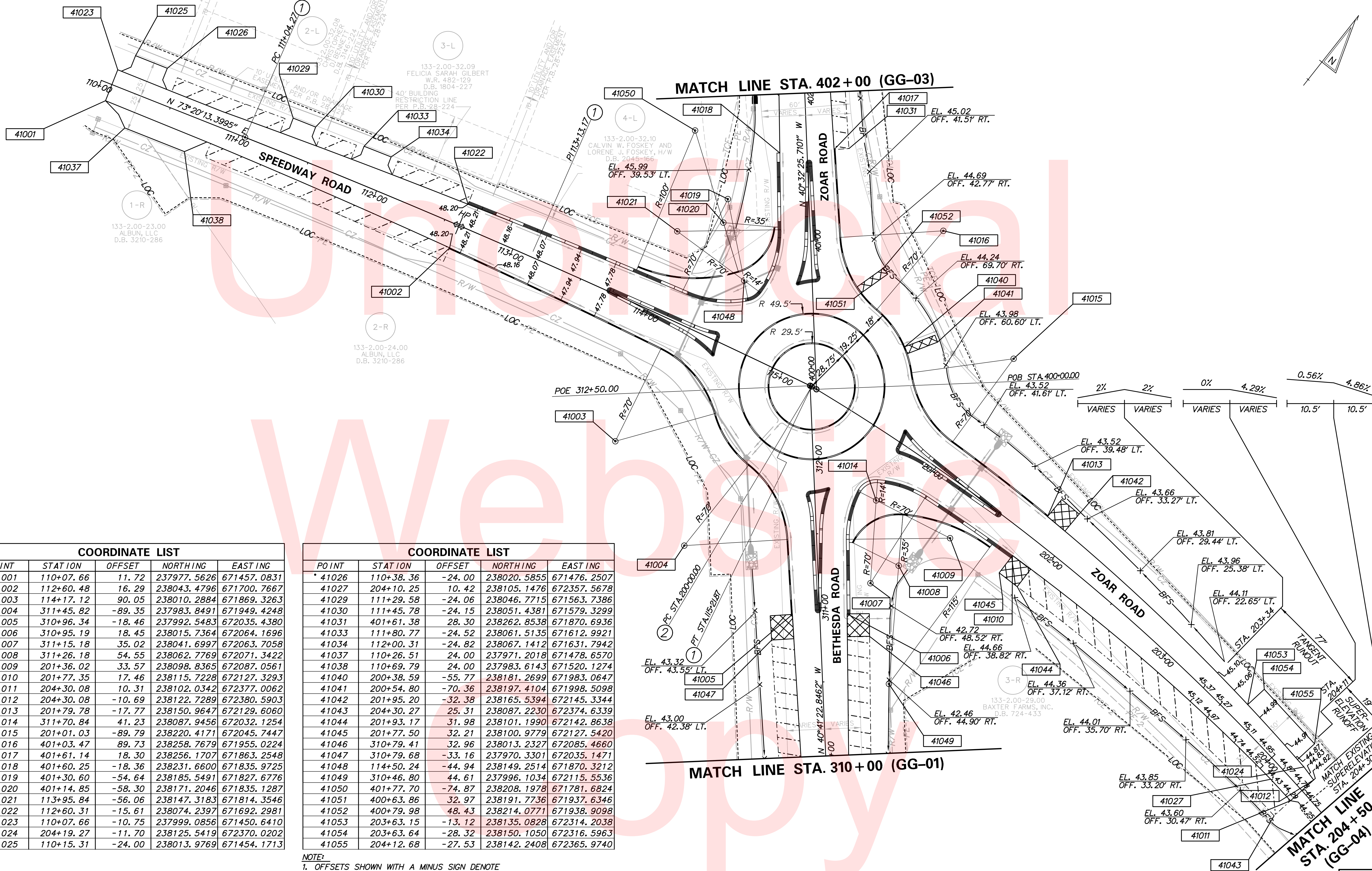


**HSP SUSSEX COUNTY, ZOAR ROAD, SPEEDWAY ROAD, AND BETHESDA ROAD INTERSECTION IMPROVEMENTS**

CONTRACT T200811201	BRIDGE NO. N/A
COUNTY SUSSEX	DESIGNED BY: B.S.S.
	CHECKED BY: J.R.R.

**GRADES AND GEOMETRICS**

<b>GG-01</b>
SHEET NO. 21
TOTAL SHTS. 42



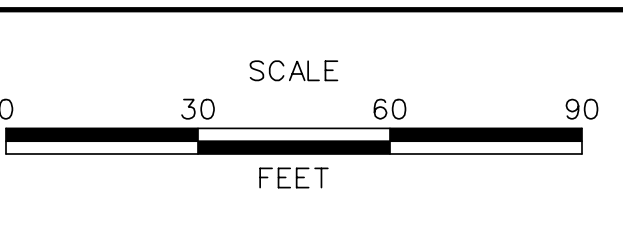
COORDINATE LIST				
POINT	STATION	OFFSET	NORTHING	EASTING
41001	110+07.66	11.72	237977.5626	671457.0831
41002	112+60.48	16.29	238043.4796	671700.7667
41003	114+17.12	90.05	238010.2884	671869.3263
41004	311+45.82	-89.35	237983.8491	671949.4248
41005	310+96.34	-18.46	237992.5483	672035.4380
41006	310+95.19	18.45	238015.7364	672064.1696
41007	311+15.18	35.02	238041.6997	672063.7058
41008	311+26.18	54.55	238062.7769	672071.3422
41009	201+36.02	33.57	238098.8365	672087.0561
41010	201+77.35	17.46	238115.7228	672127.3293
41011	204+30.08	10.31	238102.0342	672377.0062
41012	204+30.08	-10.69	238122.7289	672380.5903
41013	201+79.78	-17.77	238150.9647	672129.6060
41014	311+70.84	41.23	238087.9456	672032.1254
41015	201+01.03	-89.79	238220.4171	672045.7447
41016	401+03.47	89.73	238258.7679	671955.0224
41017	401+61.14	18.30	238256.1707	671863.2548
41018	401+60.25	-18.36	238231.6600	671835.9725
41019	401+30.60	-54.64	238185.5491	671827.6776
41020	401+14.85	-58.30	238171.2046	671835.1287
41021	113+95.84	-56.06	238147.3183	671814.3546
41022	112+60.31	-15.61	238074.2397	671692.2981
41023	110+07.66	-10.75	237999.0856	671450.6410
41024	204+19.27	-11.70	238125.5419	672370.0202
41025	110+15.31	-24.00	238013.9769	671454.1713

COORDINATE LIST				
POINT	STATION	OFFSET	NORTHING	EASTING
41026	110+38.36	-24.00	238020.5855	671476.2507
41027	204+10.25	10.42	238105.1476	672357.5678
41029	111+29.58	-24.06	238046.7715	671563.7386
41030	111+45.78	-24.15	238051.4381	671579.3299
41031	401+61.38	28.30	238262.8538	671870.6936
41033	111+80.77	-24.52	238061.5135	671612.9921
41034	112+00.31	-24.82	238067.1412	671631.7942
41037	110+26.51	24.00	237971.2018	671478.6570
41038	110+69.79	24.00	237983.6143	671520.1274
41040	200+38.59	-55.77	238181.2699	671983.0647
41041	200+54.80	-70.36	238197.4104	671998.5098
41042	201+95.20	-32.38	238165.5394	672145.3344
41043	204+30.27	25.31	238087.2230	672374.6339
41044	201+93.17	31.98	238101.1990	672142.8638
41045	201+77.50	32.21	238100.9779	672127.5420
41046	310+79.41	32.96	238013.2327	672085.4660
41047	310+79.68	-33.16	237970.3301	672035.1471
41048	114+50.24	-44.94	238149.2514	671870.3212
41049	310+46.80	44.61	237996.1034	672115.5536
41050	401+77.70	-74.87	238208.1978	671781.6824
41051	400+63.86	32.97	238191.7736	671937.6346
41052	400+79.98	48.43	238214.0771	671938.9098
41053	203+63.15	-13.12	238135.0828	672314.2038
41054	203+63.64	-28.32	238150.1050	672316.5963
41055	204+12.68	-27.53	238142.2408	672365.9740

NOTE:  
1. OFFSETS SHOWN WITH A MINUS SIGN DENOTE LEFT OF THE BASELINE

No. 21606-003, CAD, GG02zcor.dgn  
 5/20/2016 3:18:18 PM

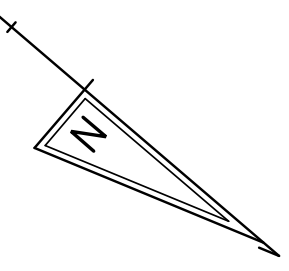
ADDENDUMS / REVISIONS



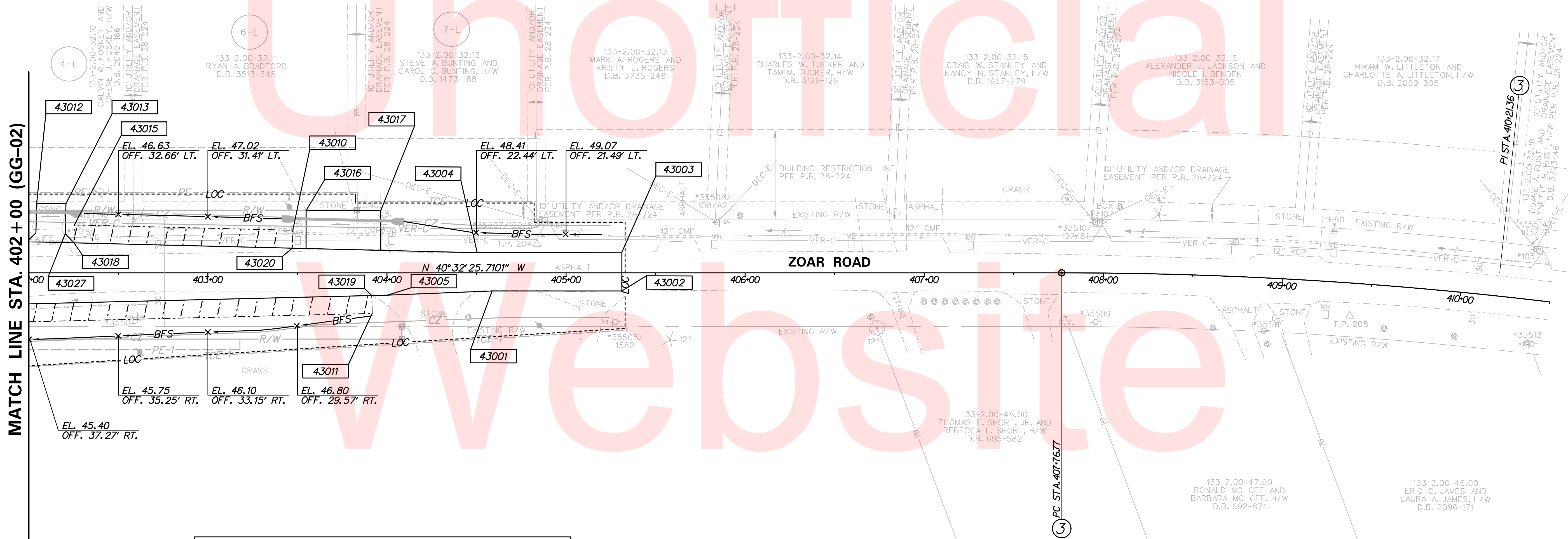
**HSP SUSSEX COUNTY, ZOAR ROAD, SPEEDWAY ROAD, AND BETHESDA ROAD INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T200811201	DESIGNED BY:	B.S.S.
COUNTY	CHECKED BY:	J.R.R.
SUSSEX		

GRADES AND GEOMETRICS	
SHEET NO.	22
TOTAL SHTS.	42



MATCH LINE STA. 402+00 (GG-02)



COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
43001	404+58.72	10.1383	238477.0121	671663.6288
43002	405+31.18	10.1383	238532.0791	671616.5298
43003	405+31.18	-11.5188	238518.0022	671600.0715
43004	404+50.40	-11.2440	238456.7875	671652.7903
43005	404+00.29	12.4706	238434.1203	671703.3832
43010	403+47.43	-23.7740	238370.3937	671710.1952
43011	403+91.77	22.6812	238434.2833	671716.6798
43012	402+04.41	-38.7532	238251.9677	671791.7746
43013	402+20.76	-38.7532	238264.3964	671781.1442
43015	402+25.47	-26.7672	238275.7645	671787.1932
43016	403+54.82	-34.7485	238368.8775	671697.0509
43017	403+96.56	-34.7485	238400.6006	671669.9180
43018	402+25.22	-16.7702	238282.0759	671794.9499
43019	403+91.52	12.6842	238427.6002	671709.2409
43020	403+47.18	-13.7770	238376.7051	671717.9519
43027	402+20.35	-21.8913	238275.0419	671794.2273

NOTE:  
1. OFFSETS SHOWN WITH A MINUS SIGN DENOTES LEFT OF THE BASELINE

No. 21606-003, CAD, GG03zoor.dgn  
9/20/2016 3:18:18 PM



ADDENDUMS / REVISIONS	

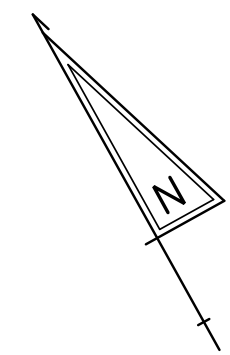


**HSP SUSSEX COUNTY, ZOAR ROAD, SPEEDWAY ROAD, AND BETHESDA ROAD INTERSECTION IMPROVEMENTS**

CONTRACT T200811201	BRIDGE NO. N/A
COUNTY SUSSEX	DESIGNED BY: B.S.S. CHECKED BY: J.R.R.

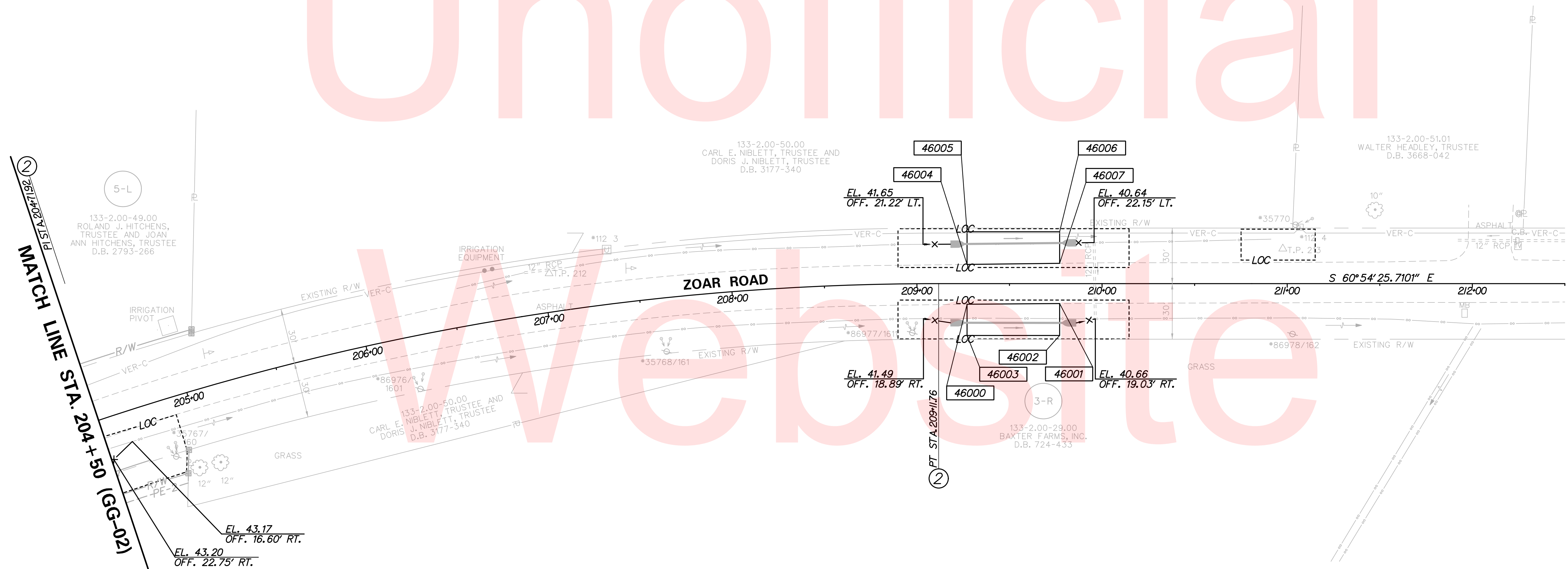
**GRADES AND GEOMETRICS**

GG-03
SHEET NO. 23
TOTAL SHTS. 42



COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
46000	209+27.09	11.1288	237935.3039	672838.7776
46001	209+77.09	10.7639	237911.3114	672882.6466
46002	209+77.09	28.0000	237896.2500	672874.2660
46003	209+27.09	28.0000	237920.5613	672830.5743
46004	209+27.09	-10.3686	237954.0891	672849.2302
46005	209+27.09	-28.0000	237969.4959	672857.8030
46006	209+77.09	-28.0000	237945.1846	672901.4947
46007	209+77.09	-10.9777	237930.3099	672893.2180

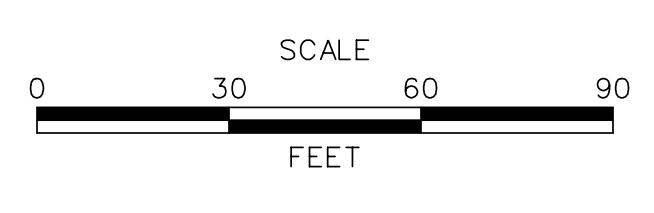
NOTE:  
1. OFFSETS SHOWN WITH A MINUS SIGN DENOTE LEFT OF THE BASELINE



No. 31606-003.CADD\GG04.zoar.dgn  
 5/20/2016 3:12:20 PM



ADDENDUMS / REVISIONS	



HSIP SUSSEX COUNTY, ZOAR ROAD,  
SPEEDWAY ROAD, AND BETHESDA ROAD  
INTERSECTION IMPROVEMENTS

CONTRACT T200811201	BRIDGE NO. N/A
COUNTY SUSSEX	DESIGNED BY: D.A.D.
	CHECKED BY: J.R.R.

GRADES AND GEOMETRICS

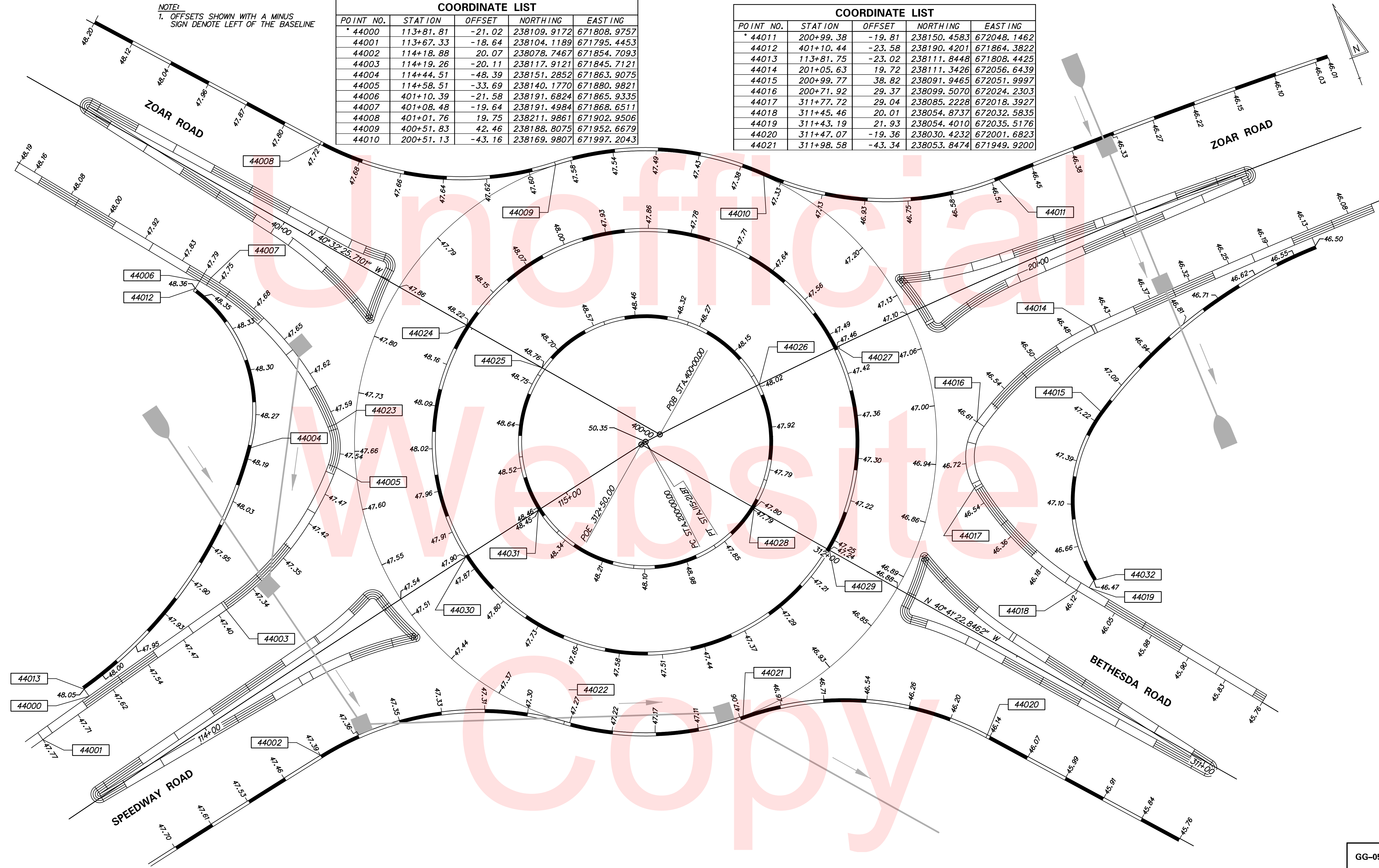
GG-04
SHEET NO. 24
TOTAL SHTS. 42



NOTE:  
1. OFFSETS SHOWN WITH A MINUS SIGN DENOTE LEFT OF THE BASELINE

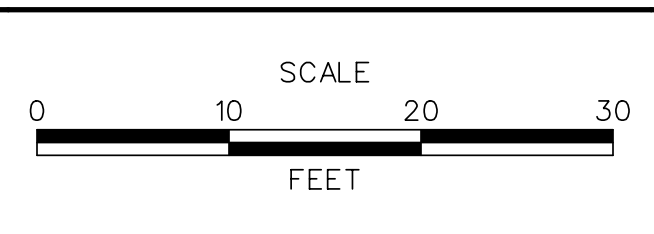
COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
* 44000	113+81.81	-21.02	238109.9172	671808.9757
44001	113+67.33	-18.64	238104.1189	671795.4453
44002	114+18.88	20.07	238078.7467	671854.7093
44003	114+19.26	-20.11	238117.9121	671845.7121
44004	114+44.51	-48.39	238151.2852	671863.9075
44005	114+58.51	-33.69	238140.1770	671880.9821
44006	401+10.39	-21.58	238191.6824	671865.9335
44007	401+08.48	-19.64	238191.4984	671868.6511
44008	401+01.76	19.75	238211.9861	671902.9506
44009	400+51.83	42.46	238188.8075	671952.6679
44010	200+51.13	-43.16	238169.9807	671997.2043

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
* 44011	200+99.38	-19.81	238150.4583	672048.1462
44012	401+10.44	-23.58	238190.4201	671864.3822
44013	113+81.75	-23.02	238111.8448	671808.4425
44014	201+05.63	19.72	238111.3426	672056.6439
44015	200+99.77	38.82	238091.9465	672051.9997
44016	200+71.92	29.37	238099.5070	672024.2303
44017	311+77.72	29.04	238085.2228	672018.3927
44018	311+45.46	20.01	238054.8737	672032.5835
44019	311+43.19	21.93	238054.4010	672035.5176
44020	311+47.07	-19.36	238030.4232	672001.6823
44021	311+98.58	-43.34	238053.8474	671949.9200



No. 21606-003.CADD\GC05zocr.dgn  
 9/20/2016 3:12:20 PM

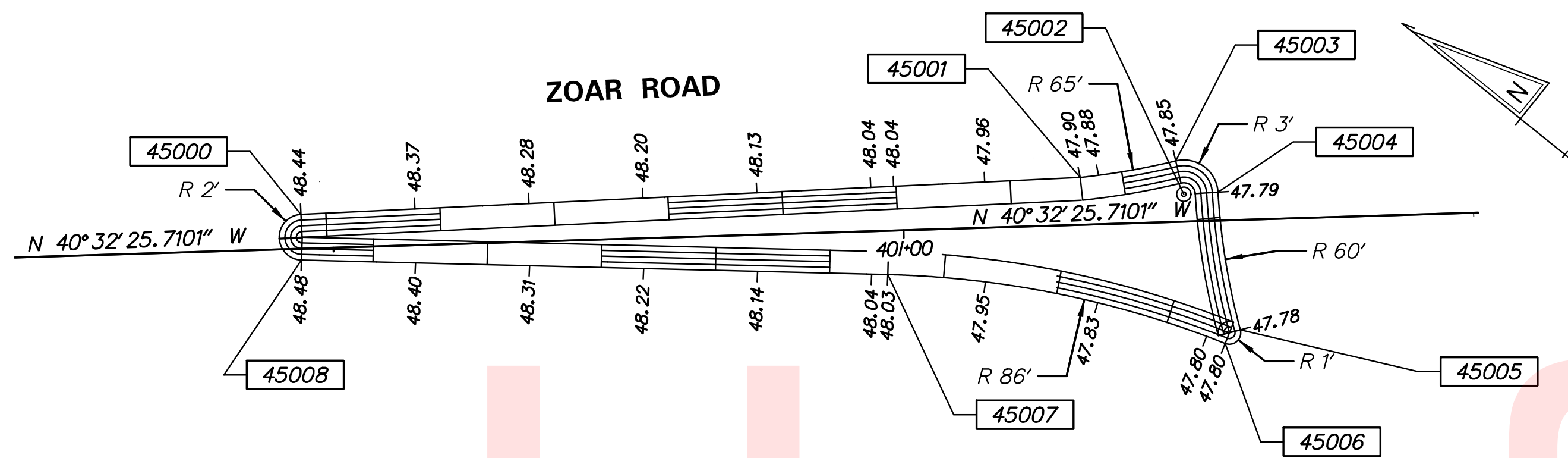
ADDENDUMS / REVISIONS



**HSP SUSSEX COUNTY, ZOAR ROAD, SPEEDWAY ROAD, AND BETHESDA ROAD INTERSECTION IMPROVEMENTS**

CONTRACT T200811201	BRIDGE NO. N/A
COUNTY SUSSEX	DESIGNED BY: B.S.S. CHECKED BY: J.R.R.

**GRADES AND GEOMETRICS**

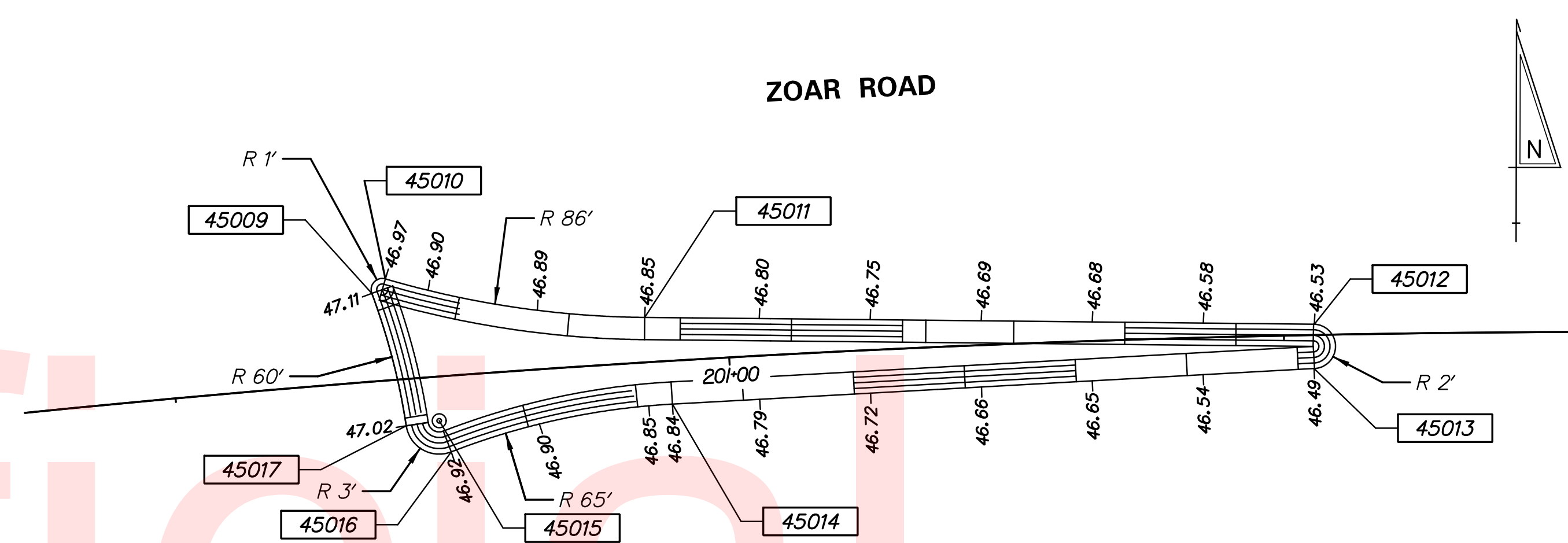


COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
* 45000	401+52.76	3.00	238239.8563	671857.0764
45001	400+84.37	4.14	238188.6301	671902.3950
45002	400+75.34	2.40	238180.6331	671906.9385
45003	400+75.96	5.34	238183.0083	671908.7712
45004	400+72.34	2.49	238178.4104	671908.9534
45005	400+70.75	-9.62	238169.3293	671900.7861
45006	400+72.12	-10.77	238169.6239	671899.0228
45007	401+01.50	-3.84	238196.4569	671885.1956
45008	401+52.83	-1.00	238237.3146	671853.9912

NOTE:  
1. OFFSETS SHOWN WITH A MINUS SIGN DENOTE LEFT OF THE BASELINE

**ZOAR ROAD (NORTH LEG) SPLITTER ISLAND  
GEOMETRIC DETAIL**

STA. 400+22 TO STA. 401+55

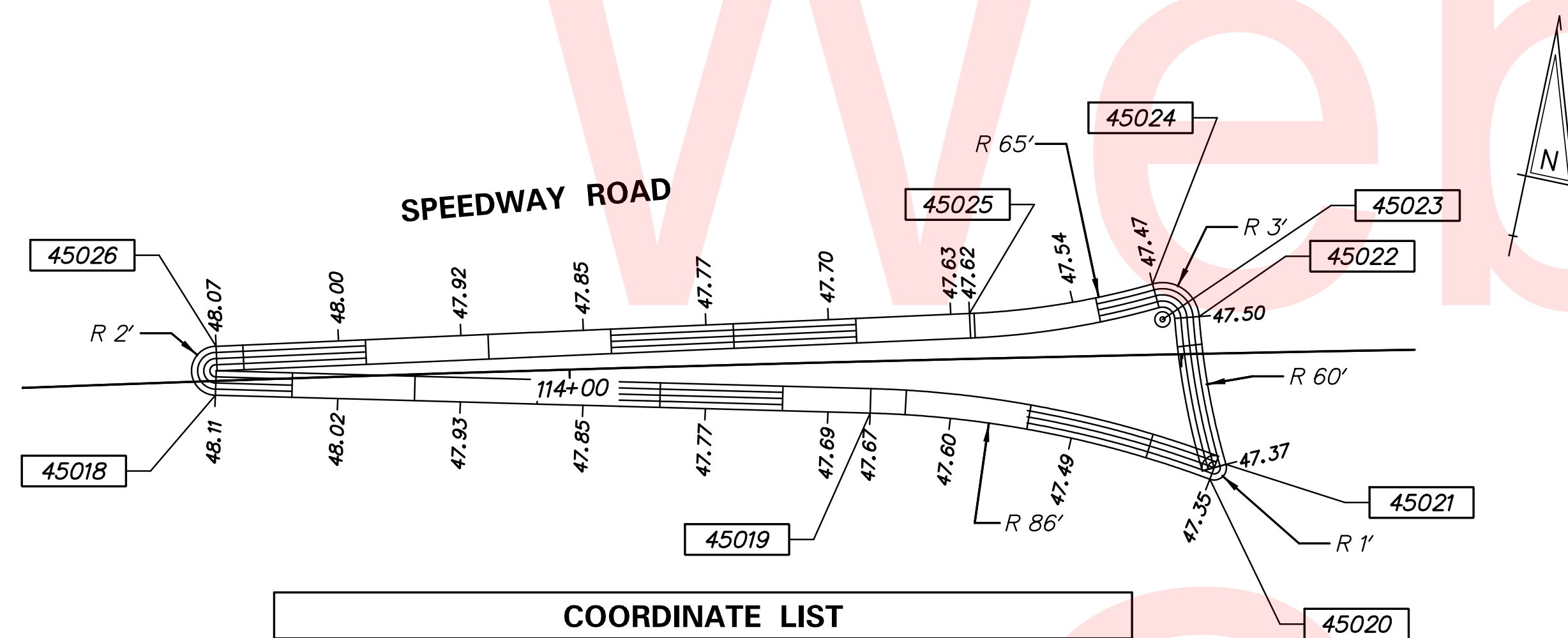


COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
* 45009	200+68.37	-7.92	238136.3983	672017.7436
45010	200+69.68	-9.13	238137.7101	672018.9590
45011	200+92.62	-4.04	238134.2915	672042.3161
45012	201+52.69	-0.98	238133.8305	672102.5558
45013	201+52.70	3.02	238129.8339	672102.6559
45014	200+94.64	3.91	238126.4914	672044.8291
45015	200+73.53	3.99	238124.9371	672023.8339
45016	200+74.40	6.86	238122.1428	672024.9256
45017	200+70.53	4.21	238124.4782	672020.8692

NOTE:  
1. OFFSETS SHOWN WITH A MINUS SIGN DENOTE LEFT OF THE BASELINE

**ZOAR ROAD (EAST LEG) SPLITTER ISLAND  
GEOMETRIC DETAIL**

STA. 200+70 TO STA. 201+53

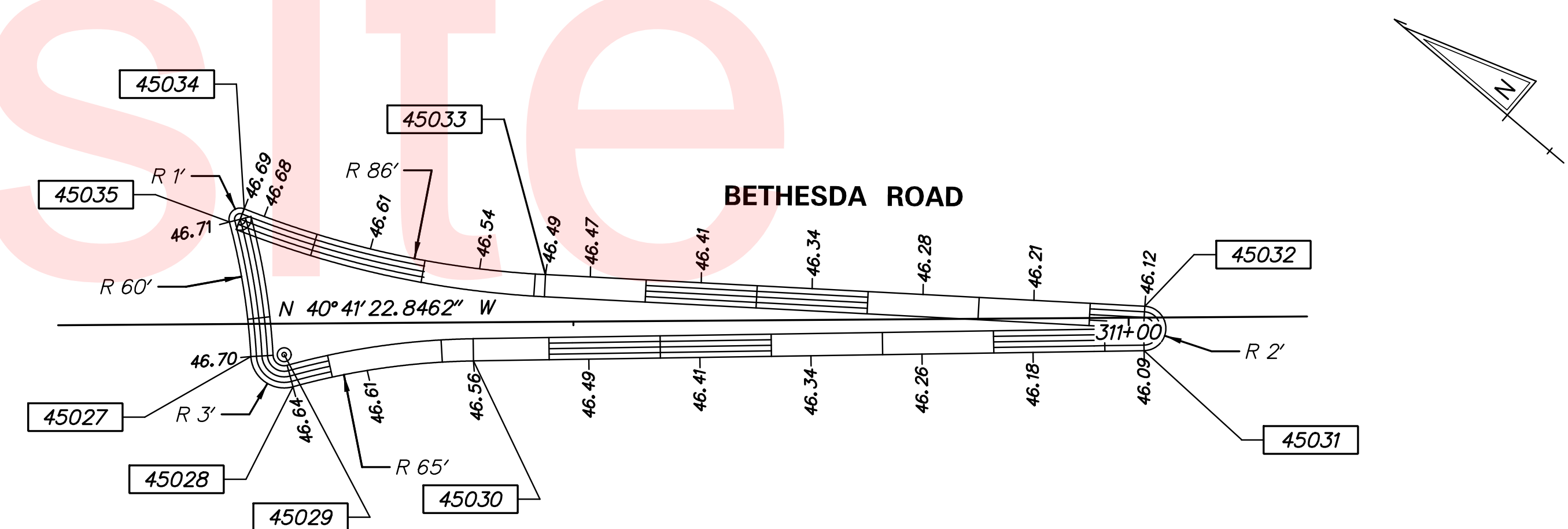


COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
* 45018	113+71.05	1.16	238085.7983	671803.8426
45019	114+24.44	4.22	238095.4521	671856.4134
45020	114+52.06	10.24	238095.9242	671884.6415
45021	114+53.39	9.06	238097.3843	671885.6713
45022	114+51.45	-3.04	238108.7248	671881.0343
45023	114+48.46	-2.87	238107.8789	671878.1560
45024	114+47.70	-5.78	238110.5322	671876.7562
45025	114+32.74	-3.70	238105.0804	671862.6537
45026	113+71.24	-2.83	238089.7184	671803.0694

NOTE:  
1. OFFSETS SHOWN WITH A MINUS SIGN DENOTE LEFT OF THE BASELINE

**SPEEDWAY ROAD SPLITTER ISLAND  
GEOMETRIC DETAIL**

STA. 113+69 TO STA. 114+52



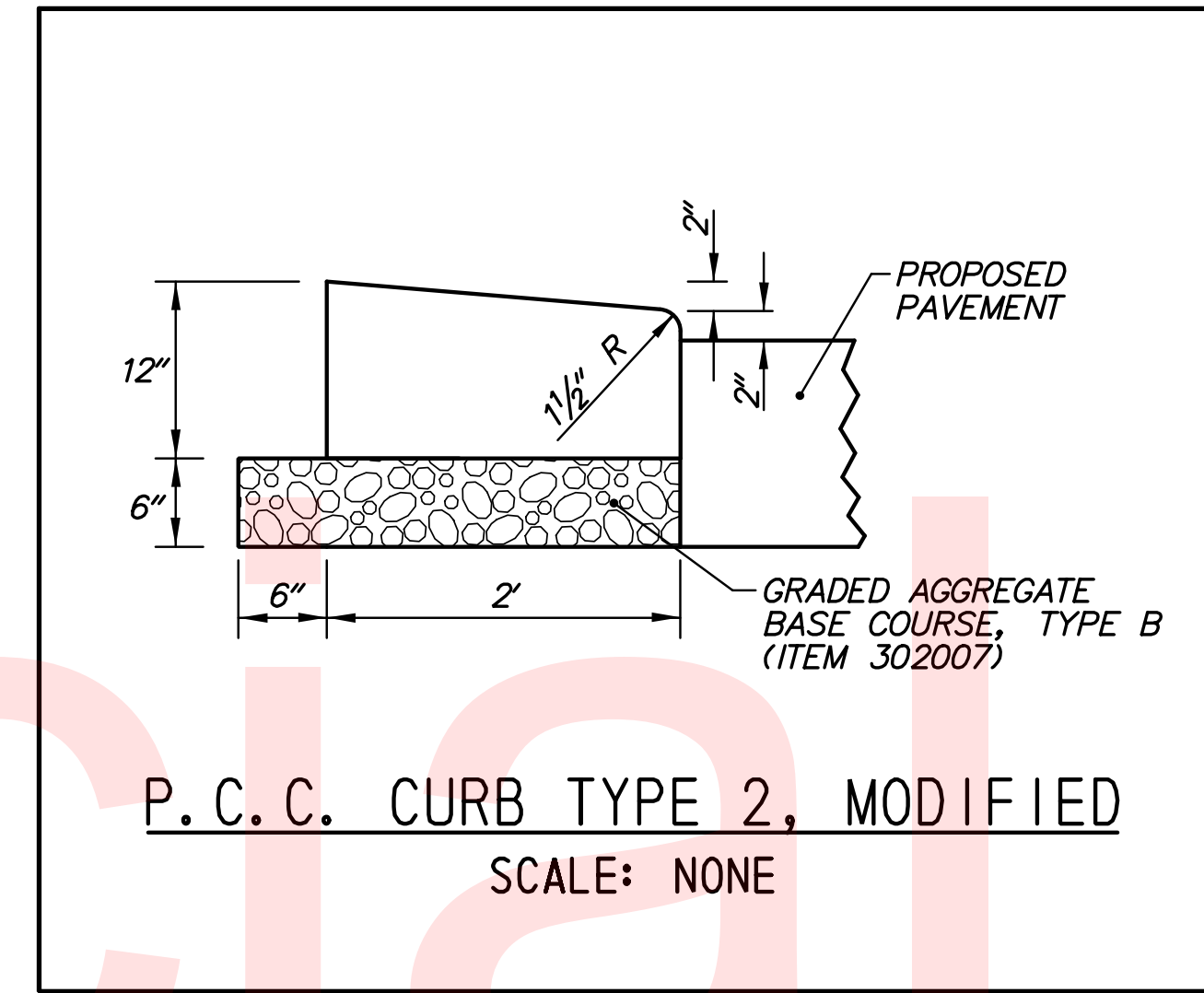
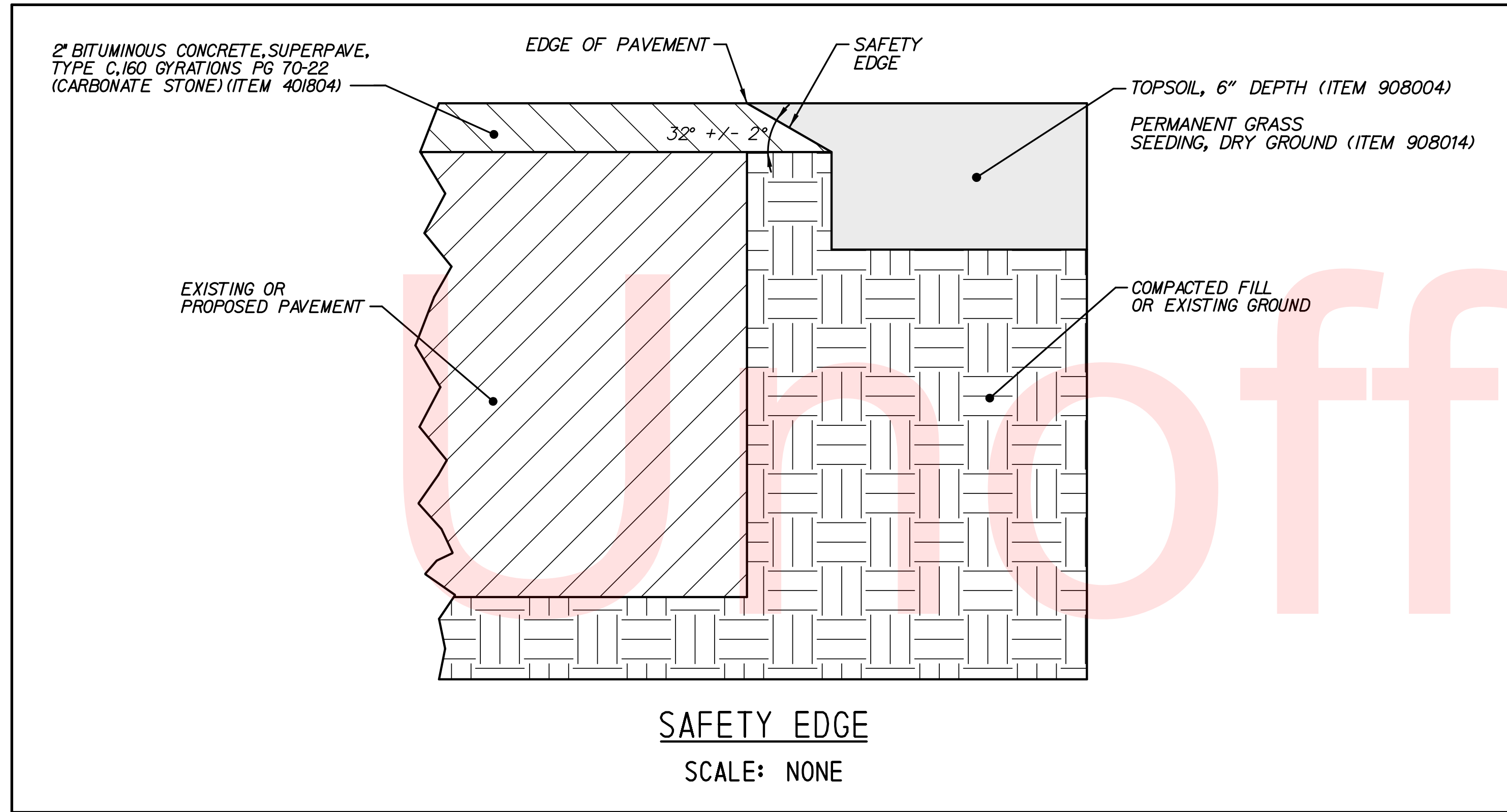
COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
* 45027	311+79.07	-2.94	238065.3958	671993.2709
45028	311+75.30	-5.69	238060.7417	671993.6443
45029	311+76.07	-2.79	238063.2194	671995.3357
45030	311+59.02	-3.48	238049.8434	672005.9296
45031	310+98.64	-2.97	238004.3815	672045.6816
45032	310+98.53	1.02	238006.9088	672048.7791
45033	311+52.48	4.26	238049.9232	672016.0596
45034	311+79.58	10.38	238074.4591	672003.0332
45035	311+80.92	9.20	238074.7092	672001.2644

NOTE:  
1. OFFSETS SHOWN WITH A MINUS SIGN DENOTE LEFT OF THE BASELINE

**BETHESDA ROAD SPLITTER ISLAND  
GEOMETRIC DETAIL**

STA. 310+97 TO STA. 311+81

No. 21606-003, CAD, GC06zcor.dgn 5/20/2016 3:12:11 PM



Official Website Copy

No. 21606-003, CAD, DT, 012008.dgn  
8/20/2018 3:12:22 PM

**ACCESS NOTES:**

1. THE USE OF MILLINGS AND GABC IN THE TRAVEL WAY, TEMPORARY TRAVEL WAY, HIGH VOLUME ENTRANCES AND ACCESS RAMP FOR THE PURPOSE OF PROVIDING A TEMPORARY ROADWAY SURFACE, POTHOLE REPAIR, TAPERED EDGE FOR UTILITIES, BUTT JOINTS, AND LONGITUDINAL DROP-OFFS (MILLING AND PAVING OPERATIONS) IS PROHIBITED UNLESS IT IS OTHERWISE DESIGNATED TO BE USED IN THE CONTRACT PLANS. USE COLD PATCH, BITUMINOUS CONCRETE, BITUMINOUS CONCRETE WEDGE, OR TAPER MILL, AS NOTED IN THE CONTRACT DOCUMENTS OR APPROVED BY THE ENGINEER. PAYMENT FOR COLD PATCH, BITUMINOUS CONCRETE, OR BITUMINOUS CONCRETE WEDGE SHALL BE PAID AS NOTED IN THE CONTRACT DOCUMENTS. TAPER MILL BITUMINOUS CONCRETE SHALL BE PAID UNDER THE BITUMINOUS CONCRETE MILLING ITEM.

2. MILLINGS OR GABC SHALL BE USED AT THE FOLLOWING LOCATIONS WHERE ACCESS TO A BUSINESS, RESIDENCE, OR EDGE DROP OFF NEEDS TO BE MAINTAINED UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE ENGINEER TO USE BITUMINOUS CONCRETE OR COLD PATCH. ALL MILLINGS AND GABC WILL BE ROLLED AND COMPACTED TO HELP PREVENT THE MATERIAL FROM UNRAVELLING:

- A. DRIVEWAYS
- B. ENTRANCES
- C. LOW VOLUME ACCESS RAMPS (IDENTIFIED IN THE CONTRACT DOCUMENTS)
- D. EDGE DROP-OFFS ADJACENT TO LIVE ROADWAY(LANE, SHOULDER, OR TURN LANE) AND THE PROPOSED ROAD CONSTRUCTION
- E. EDGE OF ROADWAY DROPOFF

GRADING AND MAINTAINING BASE COURSE THAT IS BEING USED FOR ROADWAY WEDGE/FILLET BETWEEN TRAVEL LANES AND PAVEMENT BOX, EDGE OF TRAVELWAY, DRIVEWAY OR ENTRANCE ACCESS SHALL BE INCIDENTAL TO ITEM NO. 743000 - MAINTENANCE OF TRAFFIC. THE BASE COURSE MATERIAL SHALL BE PLACED AT NO GREATER THAN THE SLOPE SPECIFIED IN TABLE 6G-1 AND SHALL BE COMPACTED. EXCESS BASE COURSE MATERIAL SHALL BE PUSHED AHEAD AND USED IN THE NEXT SEGMENT AND SHALL BE INCIDENTAL TO THE PARTICULAR BASE COURSE PAY ITEM. NO SEPARATE PAYMENT SHALL BE MADE FOR MILLINGS OR GABC TEMPORARY ROADWAY MATERIAL (TRM) USED TO PROTECT EDGE DROP-OFFS, UNLESS THE MATERIAL IS EVENTUALLY UTILIZED AS PART OF A PERMANENT ROADWAY AT WHICH TIME THE MATERIAL WOULD BE PAID FOR UNDER THE RESPECTIVE CONTRACT MATERIAL ITEM. VERTICAL DIFFERENCES SHALL BE CORRECTED IN ACCORDANCE WITH TABLE 6G-1 OF THE DELAWARE MUTCD.

**SEQUENCE OF CONSTRUCTION - PHASE IA**

1A PRIOR TO ROADWAY CONSTRUCTION, RELOCATE ALL UTILITIES AS SHOWN ON THE UTILITY RELOCATION PLANS. MAINTAIN TRAFFIC IN ACCORDANCE WITH TYPICAL APPLICATION 10 (TA-10) - LANE CLOSURE ON A TWO-LANE ROAD USING FLAGGERS.

**SEQUENCE OF CONSTRUCTION - PHASE I**

1 CLOSE THE INTERSECTION TO TRAFFIC IN ACCORDANCE WITH THE DETOUR PLAN. PLACE ALL TEMPORARY TRAFFIC CONTROL DEVICES ALONG THE DETOUR ROUTE AND ON THE APPROACHES TO THE INTERSECTION IN ACCORDANCE WITH THE DETOUR PLAN. MAINTAIN ACCESS TO ALL RESIDENTIAL DRIVEWAYS AND THE GEORGETOWN SPEEDWAY ENTRANCE (STA. 110+50 RT.) PER ACCESS NOTES (THIS SHEET).

2 INSTALL SILT FENCE, STABILIZED CONSTRUCTION ENTRANCE, STONE CHECK DAMS, AND ALL OTHER EROSION AND SEDIMENT CONTROL DEVICES.

3 EXCAVATE FOR AND CONSTRUCT THE PROPOSED STORM DRAIN SYSTEM.

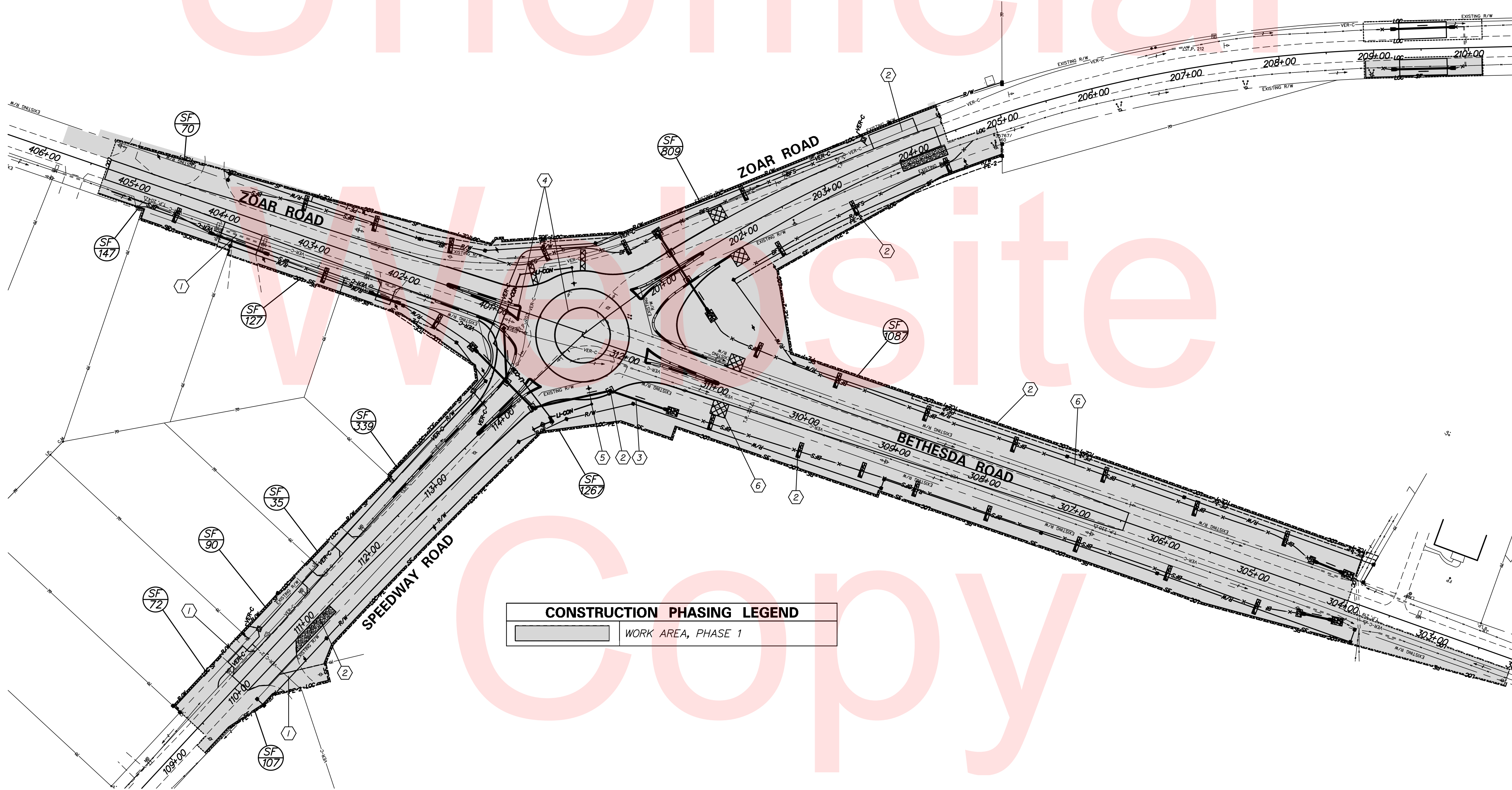
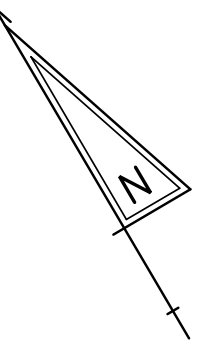
4 EXCAVATE FOR AND CONSTRUCT PROPOSED PAVEMENT, CURB, CENTER ISLAND, TRUCK APRON, SPLITTER ISLANDS AND DRIVEWAYS.

5 INSTALL PROPOSED LIGHTING AND HAZARD IDENTIFICATION BEACON (HIB).

6 STABILIZE ALL DISTURBED AREAS AS DIRECTED ON THE PLANS. REMOVE ALL EROSION AND SEDIMENT DEVICES AFTER CONCURRENCE FROM THE STORMWATER ENGINEER.

7 PLACE PERMANENT PAVEMENT MARKINGS AND SIGNS.

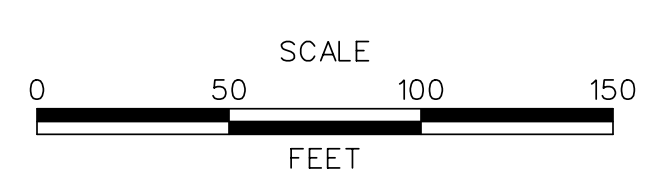
8 RE-OPEN THE INTERSECTION TO THROUGH TRAFFIC.



No. 21606-003.CADD\_CS01zocr.dgn  
9/20/2016 3:12:23 PM



ADDENDUMS / REVISIONS	



**HSP SUSSEX COUNTY, ZOAR ROAD,  
SPEEDWAY ROAD, AND BETHESDA ROAD  
INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T200811201	DESIGNED BY:	D.A.D.
COUNTY	CHECKED BY:	J.R.R.
SUSSEX		

**CONSTRUCTION PHASING,  
M.O.T., AND EROSION  
CONTROL PLAN**

<b>CS-01</b>
SHEET NO.
28
TOTAL SHTS.
42

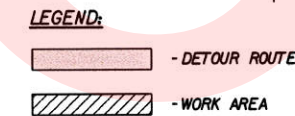
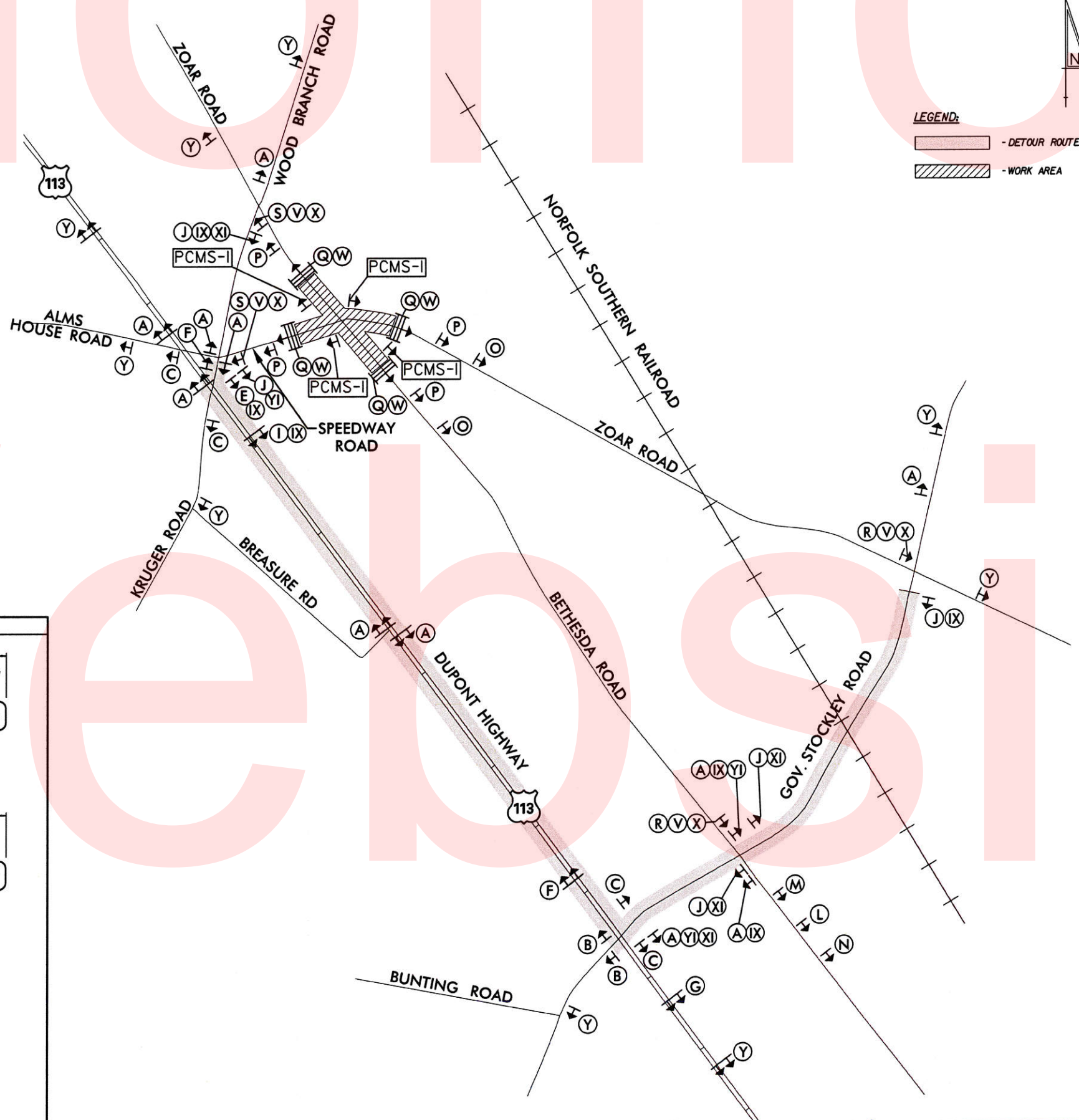
**PORTABLE CHANGEABLE MESSAGE SIGNS**

PRIOR TO DETOUR  
(10 DAYS PRIOR TO BEGINNING OF DETOUR)

PCMS-1

**INTER-SECTION**

**TO CLOSE STARTING MM/DD/YY**



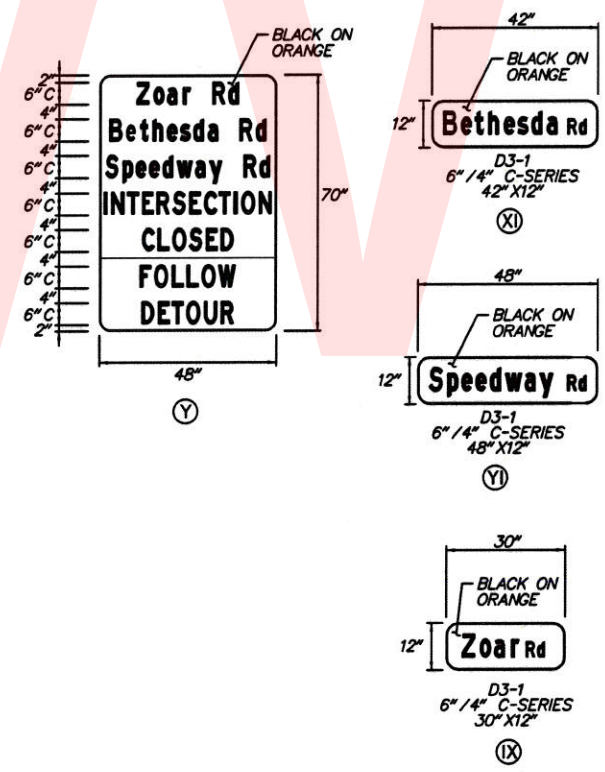
**LEGEND**

(A)  MA-9-DE	(B)  MA-9	(C)  MA-9	(D)  MA-9	(E)  MA-9
(F)  MA-9	(G)  MA-9	(H)  MA-9	(I)  MA-9	(J)  MA-8a
(K)  W20-2	(L)  W20-2	(M)  W20-2		
(N)  W20-3	(O)  W20-3	(P)  W20-3		
(Q)  R11-2	(R)  MA-10(L)	(S)  MA-10(R)		
(T)  R11-3a	(U)  R11-3b	(V)  R11-4		
(W)		(X)		

**GENERAL NOTES**

- ALL DETOUR SIGNING, INCLUDING TRAILBLAZERS, ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR IN COMPLIANCE WITH "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.)
- THE CONTRACTOR SHALL COMPLY WITH GUIDELINES IN "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD PART 6) FOR BARRICADES AND SIGNS (AS PER LATEST REVISION.)
- DESIGN OF ALL SIGNS SHALL BE IN ACCORDANCE WITH THE FHWA STANDARD HIGHWAY SIGNS BOOK.
- SIZES OF ALL SIGNS SHALL BE IN ACCORDANCE WITH "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.) SIZE OF SIGN SHALL BE BASED ON TYPE OF ROADWAY ON WHICH THE SIGN IS INSTALLED.
- SIGNS NO LONGER IN USE SHALL BE COMPLETELY COVERED WITH NO RETROREFLECTIVE MATERIAL SHOWING, OR SHALL BE REMOVED, AS DIRECTED BY THE ENGINEER.
- 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" (DE MUTCD) WILL PREVAIL.
- SIGNS "N" THROUGH "O" AND "T" AND "V". THE WORD "ROAD" SHOULD BE CHANGED TO "RAMP", "RR XING", OR "BRIDGE" WHERE APPLICABLE.
- WARNING SIGNS AND DETOUR TRAILBLAZERS SHALL BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLUORESCENT ORANGE SHEETING.
- "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
- BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

**SPECIAL SIGNS**



RECOMMENDED \_\_\_\_\_ DATE: \_\_\_\_\_ RECOMMENDED *David Dunnet* DATE: *03/17/2016* RECOMMENDED \_\_\_\_\_ DATE: \_\_\_\_\_ APPROVED CHIEF SAFETY OFFICER *[Signature]* DATE: *9/25/16* APPROVED TRAFFIC ENGINEER *[Signature]* DATE: *9/25/16*

<p><b>DELAWARE DEPARTMENT OF TRANSPORTATION</b></p>	ADDENDUM / REVISIONS		<p><b>NOT TO SCALE</b></p>	<p><b>HSIP SUSSEX COUNTY, ZOAR ROAD, SPEEDWAY ROAD, AND BETHESDA ROAD INTERSECTION IMPROVEMENTS</b></p>	CONTRACT	PERMIT NO.	<p><b>VEHICULAR DETOUR PLAN PHASE 1</b></p>	SHEET NO.
	T200811201				N/A	DESIGNED BY: D.A.D.		29
	SUSSEX				CHECKED BY: J.R.R.	TOTAL SHTS.		42

W:\MSV\CELLS\PROJ\DEVA\SB\CCL

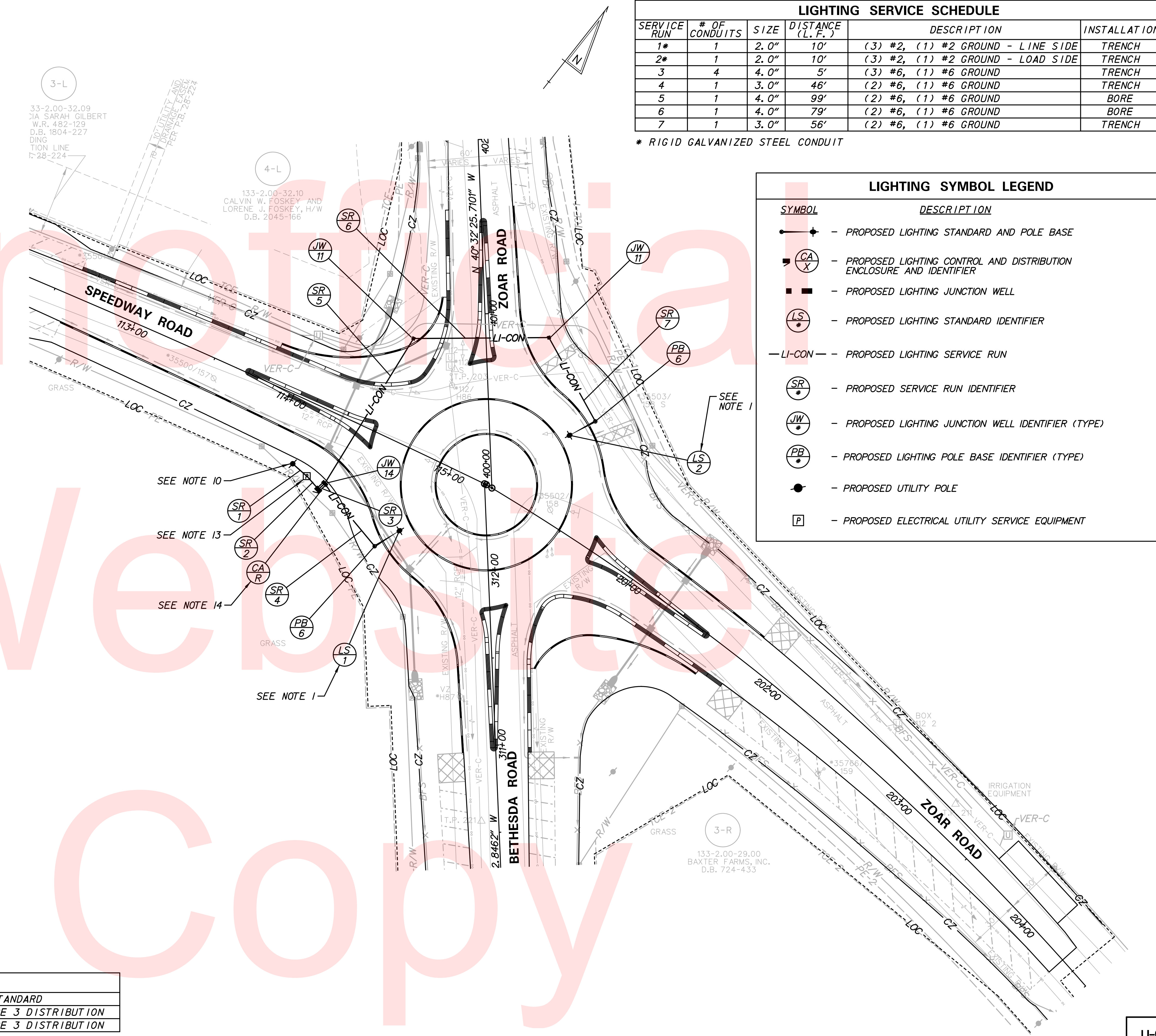
**NOTES:**

1. THE PROPOSED DELDOT STANDARD LUMINAIRE SHALL BE 110 WATT LED, IES TYPE 3 HORIZONTAL DISTRIBUTION, COBRA-HEAD STYLE FIXTURES WITH CUT-OFF OPTICS MOUNTED WITH 0° TILT ANGLE.
2. CONDUIT RUNS ARE SHOWN IN APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL LOCATE THE SERVICE RUNS IN A MANNER THAT AVOIDS CONFLICTS WITH ALL EXISTING AND PROPOSED FEATURES AS FIELD CONDITIONS DICTATE AND AS APPROVED BY THE ENGINEER.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO WORK.
4. THE CONTRACTOR SHALL STAKEOUT ALL PROPOSED LIGHT POLE LOCATIONS PRIOR TO INSTALLATION OF THE POLE BASE. IF THE CONTRACTOR PERCEIVES THAT AN UNDERGROUND OR OVERHEAD UTILITY CONFLICT EXISTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR A RESOLUTION.
5. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS.
6. THE CONTRACTOR SHALL USE CAUTION WHEN CROSSING EXISTING OR PROPOSED UTILITIES AND DRAINAGE PIPES WITH PROPOSED CONDUIT RUNS. THE CONTRACTOR SHALL HAND DIG TRENCHES IN THE VICINITY OF THESE FEATURES. IF A CONFLICT IS PERCEIVED THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO DETERMINE THE PROPER RESOLUTION.
7. ALL STATION, OFFSET AND DIMENSION INFORMATION SHOWN FOR PROPOSED LIGHTING STANDARDS IS TO THE CENTER OF THE PROPOSED POLE BASE.
8. ALL CONDUITS SHALL BE SCHEDULE 80 PVC WHEN INSTALLED BY TRENCHING AND SCHEDULE 80 HDPE WHEN INSTALLED BY BORING, UNLESS OTHERWISE NOTED.
9. SERVICE RUN DISTANCES REFLECT CONDUIT LENGTHS ONLY.
10. NEW UTILITY POLE AND POWER SUPPLY TO BE INSTALLED BY DELAWARE ELECTRIC COOPERATIVE. SEE UTILITY RELOCATION PLANS FOR PROPOSED UTILITY POLE LOCATIONS.
11. PHOTOELECTRIC CONTROL SHALL BE AT THE PROPOSED LIGHTING CONTROL AND DISTRIBUTION ENCLOSURE.
12. THE CONTRACTOR SHALL PROVIDE (4) SETS OF RED-LINED AS-BUILT PLANS TO THE ENGINEER SHOWING OFFSETS FROM THE CENTERLINE OF THE ROAD AND DEPTH OF THE CONDUIT FROM THE CENTERLINE OF THE ROAD.
13. FURNISH AND INSTALL ELECTRICAL SERVICE PEDESTAL (100 AMP) PER DELDOT STANDARD NO. T-17 (2013).
14. DELDOT TRAFFIC SHALL INSTALL A NEMA CABINET EXTENSION FOR THE PROPOSED LIGHTING CABINET.
15. LIGHTING PANEL SHALL BE SQUARE D.
16. LIGHTING CONTACTOR SHALL BE SQUARE D.

LIGHTING SERVICE SCHEDULE					
SERVICE RUN	# OF CONDUITS	SIZE	DISTANCE (L.F.)	DESCRIPTION	INSTALLATION
1*	1	2.0"	10'	(3) #2, (1) #2 GROUND - LINE SIDE	TRENCH
2*	1	2.0"	10'	(3) #2, (1) #2 GROUND - LOAD SIDE	TRENCH
3	4	4.0"	5'	(3) #6, (1) #6 GROUND	TRENCH
4	1	3.0"	46'	(2) #6, (1) #6 GROUND	TRENCH
5	1	4.0"	99'	(2) #6, (1) #6 GROUND	BORE
6	1	4.0"	79'	(2) #6, (1) #6 GROUND	BORE
7	1	3.0"	56'	(2) #6, (1) #6 GROUND	TRENCH

\* RIGID GALVANIZED STEEL CONDUIT

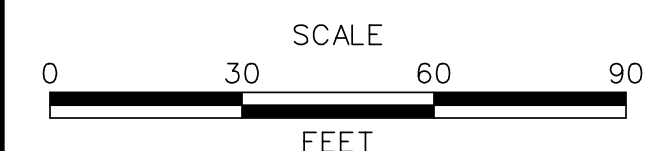
LIGHTING SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	PROPOSED LIGHTING STANDARD AND POLE BASE
	PROPOSED LIGHTING CONTROL AND DISTRIBUTION ENCLOSURE AND IDENTIFIER
	PROPOSED LIGHTING JUNCTION WELL
	PROPOSED LIGHTING STANDARD IDENTIFIER
	PROPOSED LIGHTING SERVICE RUN
	PROPOSED SERVICE RUN IDENTIFIER
	PROPOSED LIGHTING JUNCTION WELL IDENTIFIER (TYPE)
	PROPOSED LIGHTING POLE BASE IDENTIFIER (TYPE)
	PROPOSED UTILITY POLE
	PROPOSED ELECTRICAL UTILITY SERVICE EQUIPMENT



PANELBOARD SE									
AIC RATING - 22 KAIC		100 AMP BUS				100 AMP MCCB			
SOLID NEUTRAL		120/240 VOLTS				1 PHASE, 3 WIRE + GROUND			
ENCLOSURE: BASE MOUNTED CABINET		SURFACE MOUNTED							
LOAD SERVED	CIRCUIT BREAKER			CKT. NO.	CIRCUIT BREAKER			LOAD SERVED	
	FRAME	TRIP	POLE		FRAME	TRIP	POLE		
I-110W LED	100	20	I	1	2	100	20	SPARE	
I-110W LED	100	20	I	3	4	100	20	SPARE	
SPARE	100	20	I	5	6	100	20	SPARE	
SPARE	100	20	I	7	8	100	20	SPARE	
SPARE	100	20	I	9	10	100	20	SPARE	

LIGHTING STANDARD SCHEDULE						
NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD
LS-1	1	114+79.1	59.5' RT.	40'	15'	110W LED, IES TYPE 3 DISTRIBUTION
LS-2	3	200+33.5	63.6' LT.	40'	15'	110W LED, IES TYPE 3 DISTRIBUTION

ADDENDUMS / REVISIONS

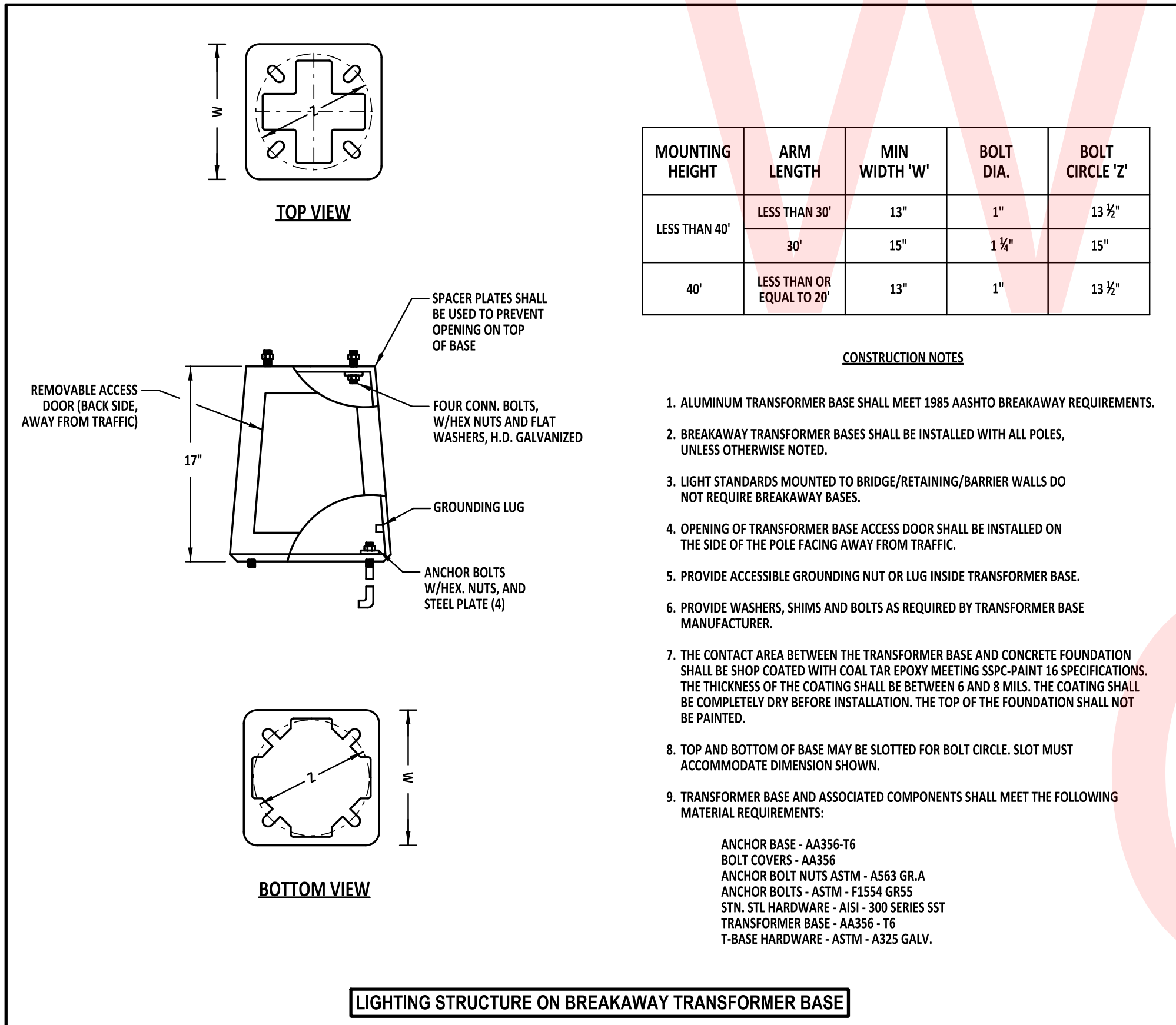
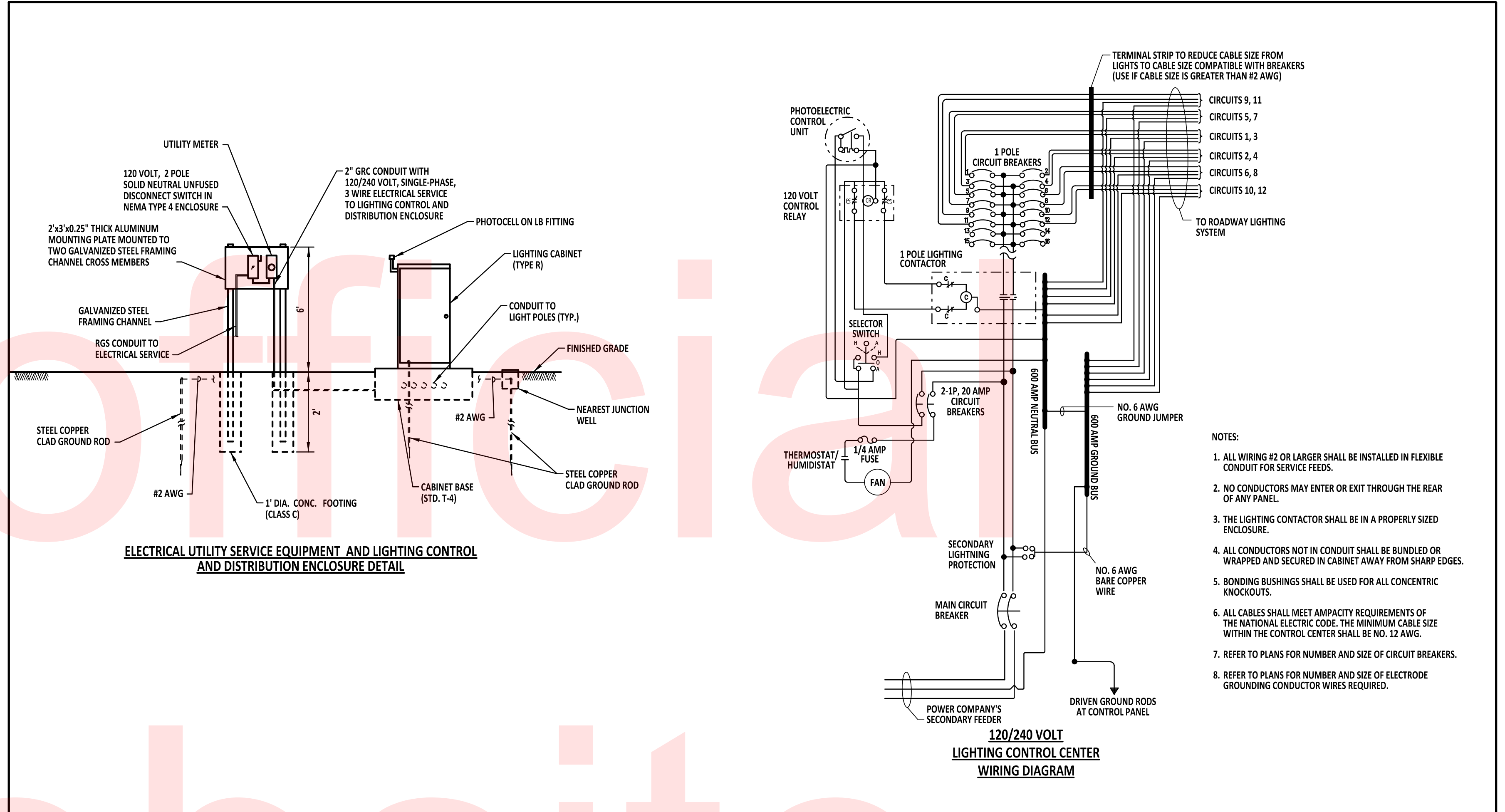
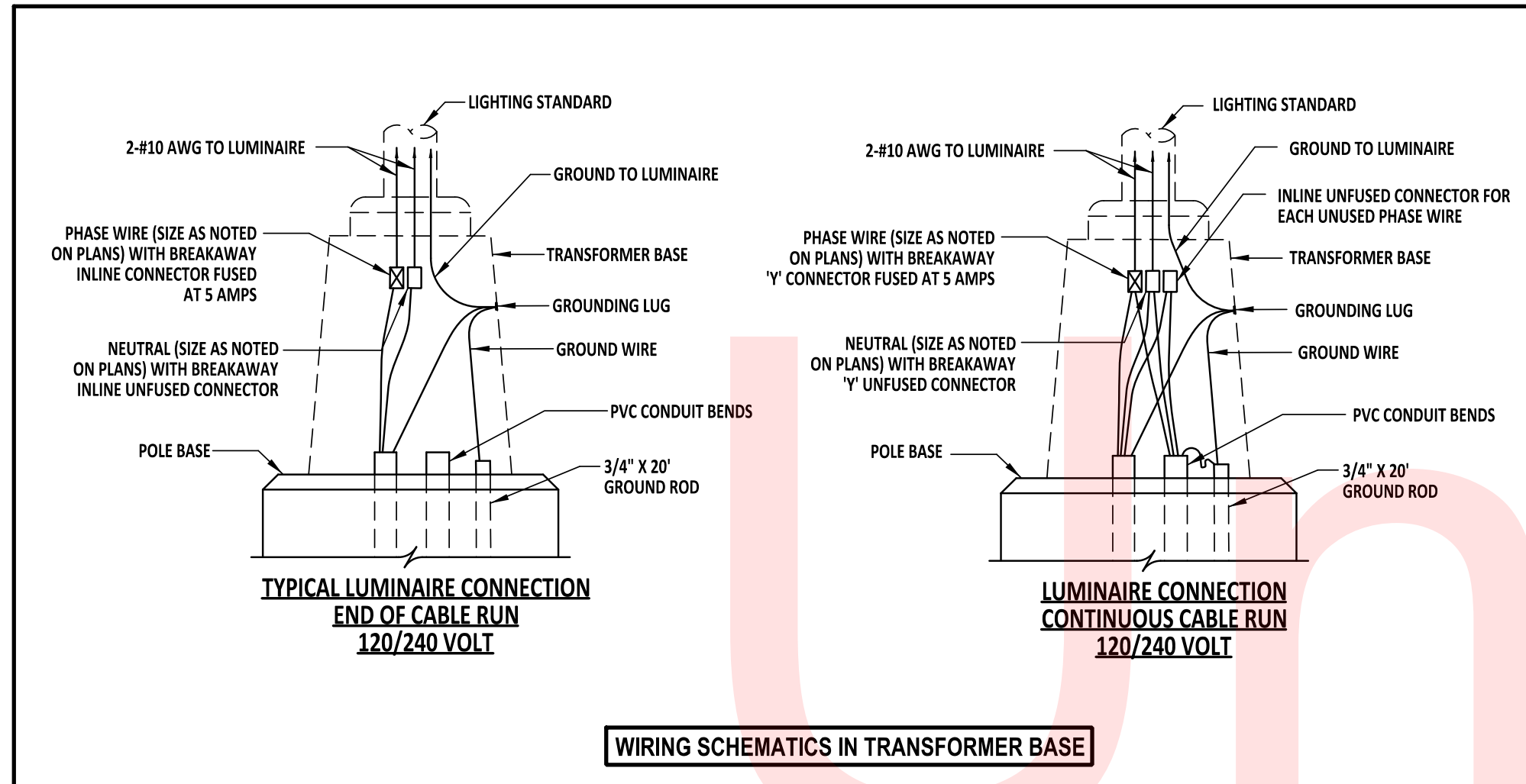


HSP SUSSEX COUNTY, ZOAR ROAD, SPEEDWAY ROAD, AND BETHESDA ROAD INTERSECTION IMPROVEMENTS

CONTRACT	BRIDGE NO.	N/A
T200811201	DESIGNED BY:	B.S.S.
COUNTY	CHECKED BY:	M.J.B.
SUSSEX		

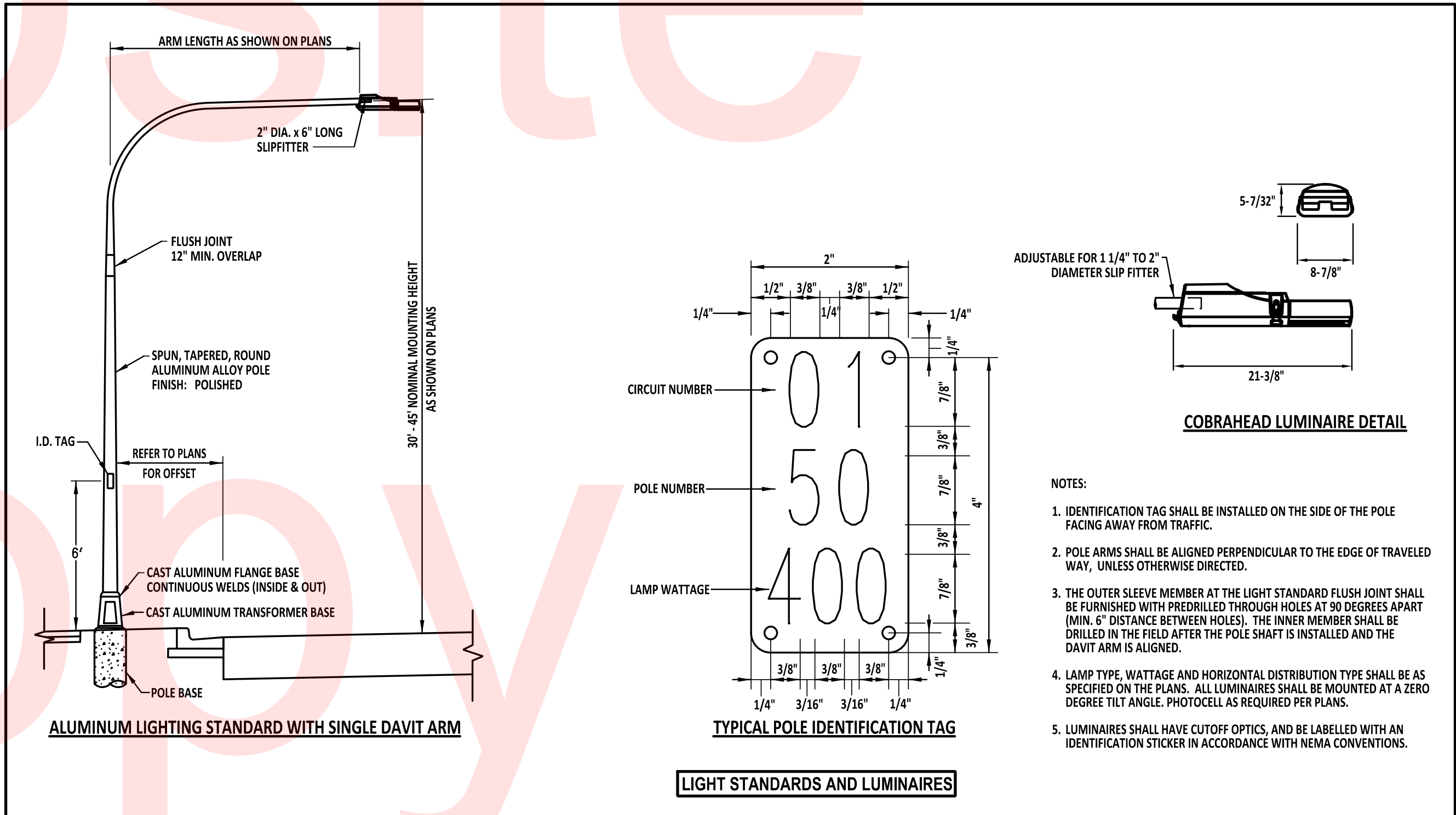
LIGHTING PLAN

LI-01
SHEET NO.
30
TOTAL SHTS.
42



MOUNTING HEIGHT	ARM LENGTH	MIN WIDTH 'W'	BOLT DIA.	BOLT CIRCLE 'Z'
LESS THAN 40'	LESS THAN 30'	13"	1"	13 1/2"
	30'	15"	1 1/4"	15"
40'	LESS THAN OR EQUAL TO 20'	13"	1"	13 1/2"

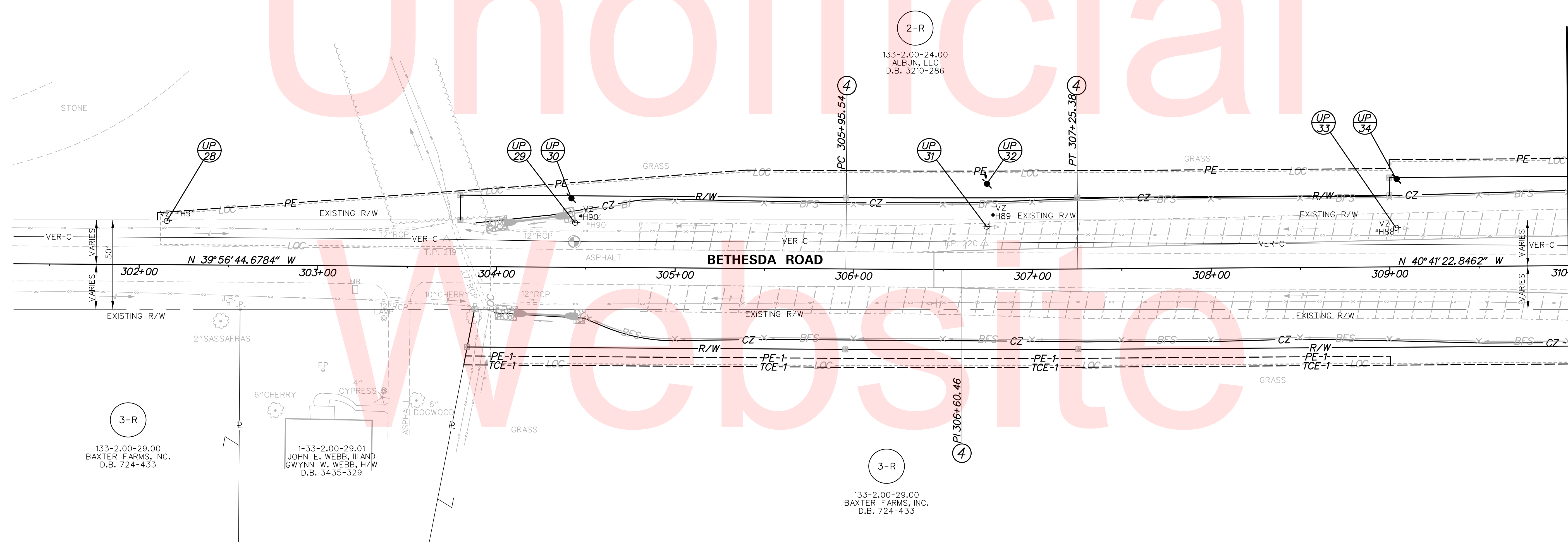
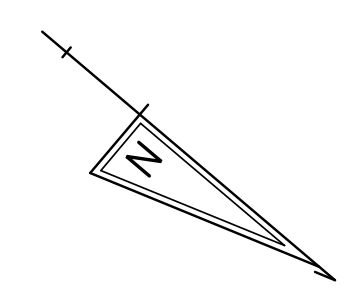
- CONSTRUCTION NOTES**
- ALUMINUM TRANSFORMER BASE SHALL MEET 1985 AASHTO BREAKAWAY REQUIREMENTS.
  - BREAKAWAY TRANSFORMER BASES SHALL BE INSTALLED WITH ALL POLES, UNLESS OTHERWISE NOTED.
  - LIGHT STANDARDS MOUNTED TO BRIDGE/RETAINING/BARRIER WALLS DO NOT REQUIRE BREAKAWAY BASES.
  - OPENING OF TRANSFORMER BASE ACCESS DOOR SHALL BE INSTALLED ON THE SIDE OF THE POLE FACING AWAY FROM TRAFFIC.
  - PROVIDE ACCESSIBLE GROUNDING NUT OR LUG INSIDE TRANSFORMER BASE.
  - PROVIDE WASHERS, SHIMS AND BOLTS AS REQUIRED BY TRANSFORMER BASE MANUFACTURER.
  - THE CONTACT AREA BETWEEN THE TRANSFORMER BASE AND CONCRETE FOUNDATION SHALL BE SHOP COATED WITH COAL TAR EPOXY MEETING SSPC-Paint 15 SPECIFICATIONS. THE THICKNESS OF THE COATING SHALL BE BETWEEN 6 AND 8 MILS. THE COATING SHALL BE COMPLETELY DRY BEFORE INSTALLATION. THE TOP OF THE FOUNDATION SHALL NOT BE PAINTED.
  - TOP AND BOTTOM OF BASE MAY BE SLOTTED FOR BOLT CIRCLE. SLOT MUST ACCOMMODATE DIMENSION SHOWN.
  - TRANSFORMER BASE AND ASSOCIATED COMPONENTS SHALL MEET THE FOLLOWING MATERIAL REQUIREMENTS:  
 ANCHOR BASE - AA356-T6  
 BOLT COVERS - AA356  
 ANCHOR BOLT NUTS ASTM - A563 GR.A  
 ANCHOR BOLTS - ASTM - F1554 GR55  
 STN. STL HARDWARE - AISI - 300 SERIES SST  
 TRANSFORMER BASE - AA356 - T6  
 T-BASE HARDWARE - ASTM - A325 GALV.



# Unofficial

# Watermark

# Copy



**UTILITY POLE SCHEDULE**

NO.	EXISTING/ PROPOSED	ACTION	STATION	OFFSET	NORTHING	EASTING	ID#	OWNER	*AERIAL UTILITIES
28	EXISTING	REMAIN	302+15.37	-24.50	237317.1102	672600.6046	H91	VER	VER, MED
29	EXISTING	REMOVE	304+43.82	-24.91	237491.9928	672453.6099	H90	VER	VER, MED
30	PROPOSED	NEW	304+41.65	-38.66	237481.4991	672444.4590	N/A	VER	VER, MED
31	EXISTING	REMOVE	306+74.37	-23.92	237669.0358	672306.2263	H89	VER	VER, MED
32	PROPOSED	NEW	306+74.55	-47.95	237653.5949	672287.8051	N/A	VER	VER, MED
33	EXISTING	REMOVE	309+03.60	-21.83	237844.2039	672158.5353	H88	VER	VER, MED
34	PROPOSED	NEW	309+04.08	-48.82	237826.9725	672137.7645	N/A	VER	VER, MED

\* DEC = DELAWARE ELECTRIC COOPERATIVE, VER = VERIZON, MED = MEDIACOM COMMUNICATIONS  
 \*\* OFFSETS SHOWN WITH A MINUS SIGN DENOTE LEFT OF THE BASELINE

**LEGEND**

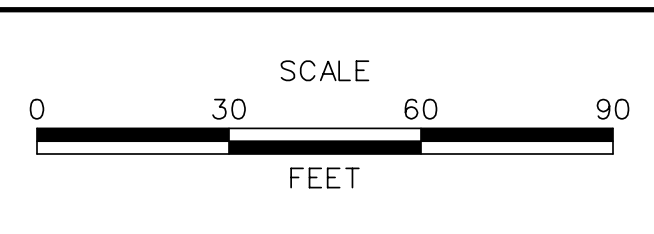
UTILITY POLE IDENTIFIER  

 VERIZON (BURIED)

No. 21606-003, CAD, UT-01.dwg, 10/12/2016, 10:20 AM



ADDENDUMS / REVISIONS



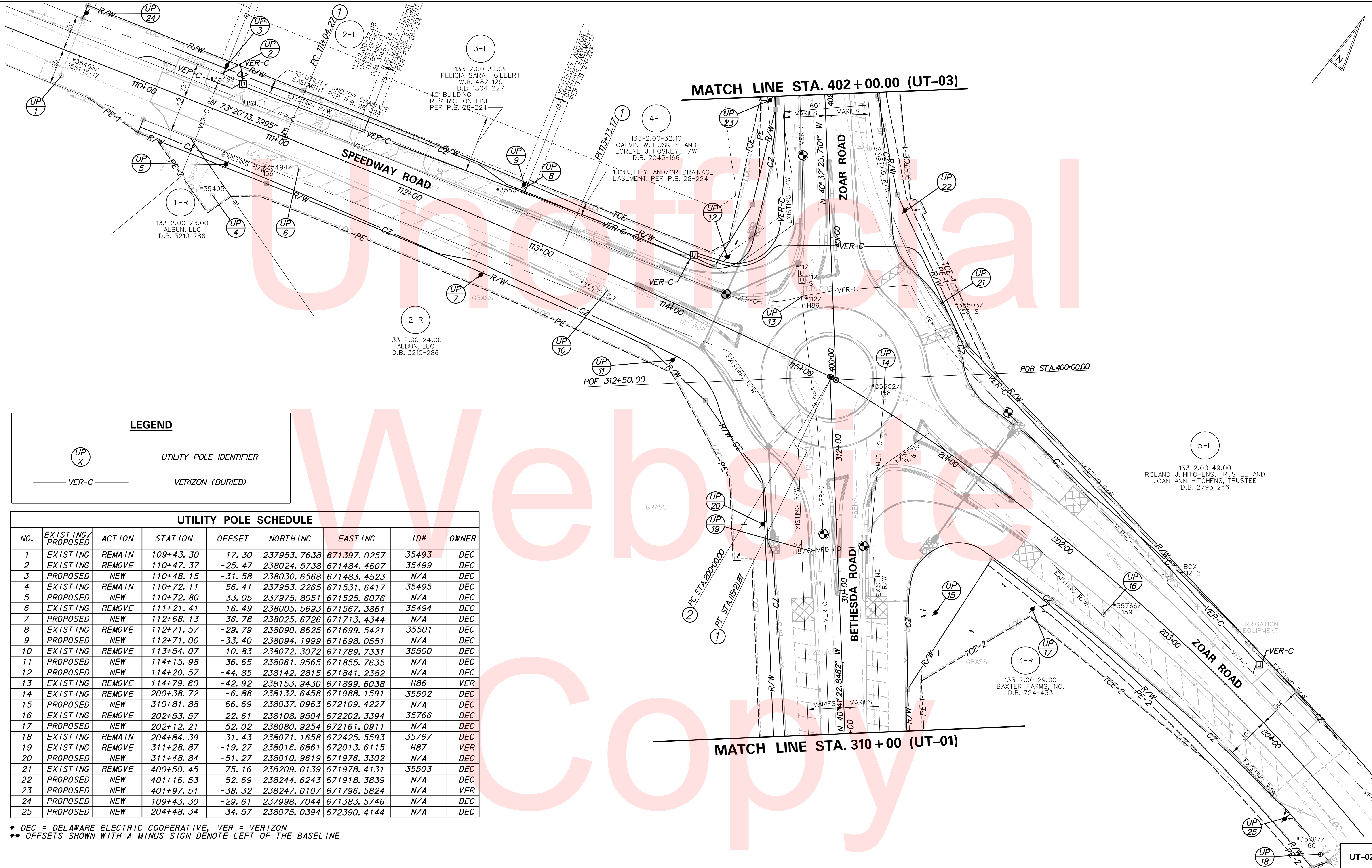
**HSP SUSSEX COUNTY, ZOAR ROAD, SPEEDWAY ROAD, AND BETHESDA ROAD INTERSECTION IMPROVEMENTS**

CONTRACT T200811201	BRIDGE NO. N/A
COUNTY SUSSEX	DESIGNED BY: D.A.D. CHECKED BY: J.R.R.

**UTILITY RELOCATION PLAN**

UT-01
SHEET NO. 32
TOTAL SHTS. 42





**LEGEND**

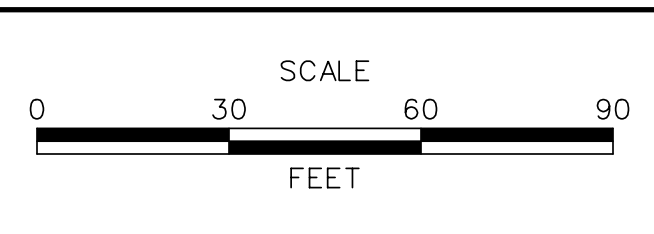
UTILITY POLE IDENTIFIER  
 VERIZON (BURIED)

UTILITY POLE SCHEDULE								
NO.	EXISTING/ PROPOSED	ACTION	STATION	OFFSET	NORTHING	EASTING	ID#	OWNER
1	EXISTING	REMAIN	109+43.30	17.30	237953.7638	671397.0257	35493	DEC
2	EXISTING	REMOVE	110+47.37	-25.47	238024.5738	671484.4607	35499	DEC
3	PROPOSED	NEW	110+48.15	-31.58	238030.6568	671483.4523	N/A	DEC
4	EXISTING	REMAIN	110+72.11	56.41	237953.2265	671531.6417	35495	DEC
5	PROPOSED	NEW	110+72.80	33.05	237975.8051	671525.6076	N/A	DEC
6	EXISTING	REMOVE	111+21.41	16.49	238005.5693	671567.3861	35494	DEC
7	PROPOSED	NEW	112+68.13	36.78	238025.6726	671713.4344	N/A	DEC
8	EXISTING	REMOVE	112+71.57	-29.79	238090.8625	671699.5421	35501	DEC
9	PROPOSED	NEW	112+71.00	-33.40	238094.1999	671698.0551	N/A	DEC
10	EXISTING	REMOVE	113+54.07	10.83	238072.3072	671789.7331	35500	DEC
11	PROPOSED	NEW	114+15.98	36.65	238061.9565	671855.7635	N/A	DEC
12	PROPOSED	NEW	114+20.57	-44.85	238142.2815	671841.2382	N/A	DEC
13	EXISTING	REMOVE	114+79.60	-42.92	238153.9430	671899.6038	H86	VER
14	EXISTING	REMOVE	200+38.72	-6.88	238132.6458	671988.1591	35502	DEC
15	PROPOSED	NEW	310+81.88	66.69	238037.0963	672109.4227	N/A	DEC
16	EXISTING	REMOVE	202+53.57	22.61	238108.9504	672202.3394	35766	DEC
17	PROPOSED	NEW	202+12.21	52.02	238080.9254	672161.0911	N/A	DEC
18	EXISTING	REMAIN	204+84.39	31.43	238071.1658	672425.5593	35767	DEC
19	EXISTING	REMOVE	311+28.87	-19.27	238016.6861	672013.6115	H87	VER
20	PROPOSED	NEW	311+48.84	-51.27	238010.9619	671976.3302	N/A	DEC
21	EXISTING	REMOVE	400+50.45	75.16	238209.0139	671978.4131	35503	DEC
22	PROPOSED	NEW	401+16.53	52.69	238244.6243	671918.3839	N/A	DEC
23	PROPOSED	NEW	401+97.51	-38.32	238247.0107	671796.5824	N/A	VER
24	PROPOSED	NEW	109+43.30	-29.61	237998.7044	671383.5746	N/A	DEC
25	PROPOSED	NEW	204+48.34	34.57	238075.0394	672390.4144	N/A	DEC

\* DEC = DELAWARE ELECTRIC COOPERATIVE, VER = VERIZON  
 \*\* OFFSETS SHOWN WITH A MINUS SIGN DENOTE LEFT OF THE BASELINE



ADDENDUMS / REVISIONS

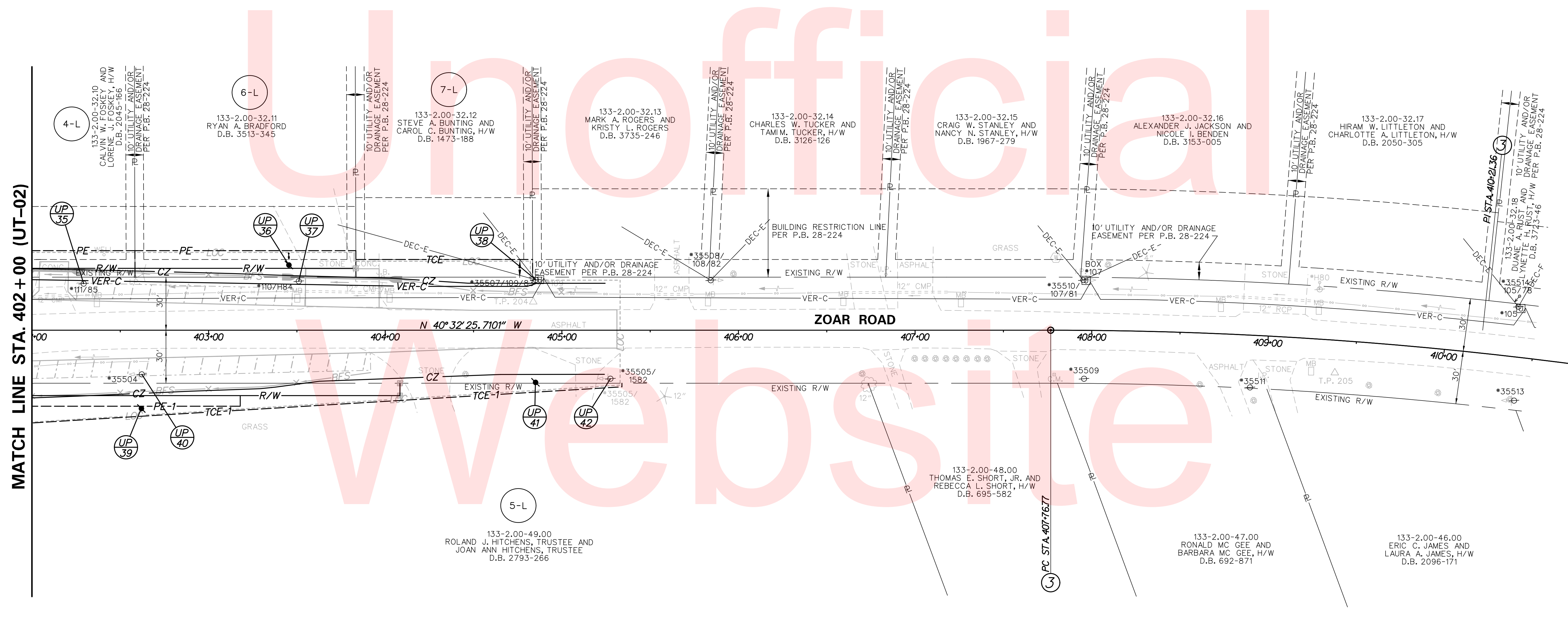
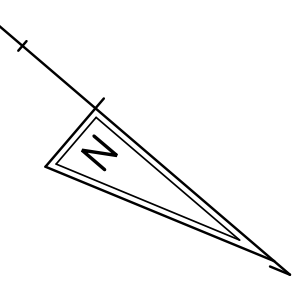


**HSP SUSSEX COUNTY, ZOAR ROAD,  
 SPEEDWAY ROAD, AND BETHESDA ROAD  
 INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T200811201	DESIGNED BY:	D.A.D.
COUNTY	CHECKED BY:	J.R.R.
SUSSEX		

**UTILITY RELOCATION PLAN**

UT-02	SHEET NO.	33
	TOTAL SHTS.	42



MATCH LINE STA. 402 + 00 (UT-02)

UTILITY POLE SCHEDULE								
NO.	EXISTING/ PROPOSED	ACTION	STATION	OFFSET	NORTHING	EASTING	ID#	OWNER
35	EXISTING	REMOVE	402+29.27	-26.34	238278.9290	671785.0455	H85	VER
36	PROPOSED	NEW	403+45.44	-36.88	238360.3614	671701.5279	35504	VER
37	EXISTING	REMOVE	403+51.05	-27.68	238370.6053	671704.8759	H84	VER
38	EXISTING	REMAIN	404+85.25	-28.49	238472.0641	671617.0315	35507	VER
39	PROPOSED	NEW	402+61.92	44.28	238349.6419	671817.4944	N/A	DEC
40	EXISTING	REMOVE	402+62.18	24.98	238337.2991	671802.6506	35504	DEC
41	PROPOSED	NEW	404+85.11	29.53	238509.6716	671661.2208	N/A	DEC
42	EXISTING	REMAIN	405+27.51	27.44	238540.5371	671632.0654	35505	DEC

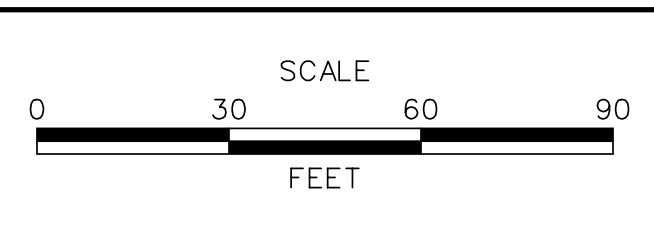
\* DEC = DELAWARE ELECTRIC COOPERATIVE, VER = VERIZON  
 \*\* OFFSETS SHOWN WITH A MINUS SIGN DENOTE LEFT OF THE BASELINE

LEGEND	
(UP) X	UTILITY POLE IDENTIFIER
— VER-C —	VERIZON (BURIED)

No. 21606-003, CAD, UT, 03zoor.dgn  
 9/20/2016 3:12:21 PM



ADDENDUMS / REVISIONS

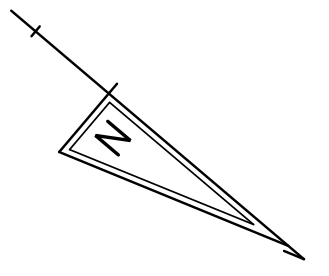


**HSP SUSSEX COUNTY, ZOAR ROAD,  
 SPEEDWAY ROAD, AND BETHESDA ROAD  
 INTERSECTION IMPROVEMENTS**

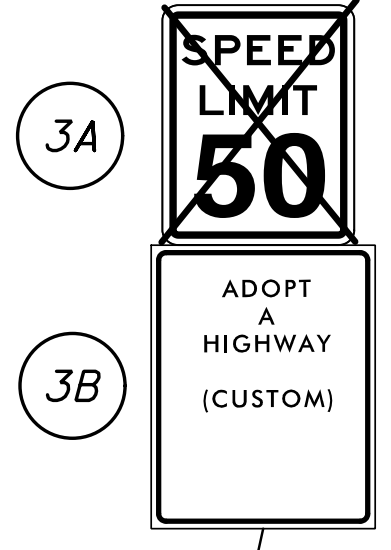
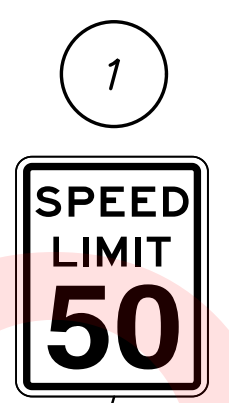
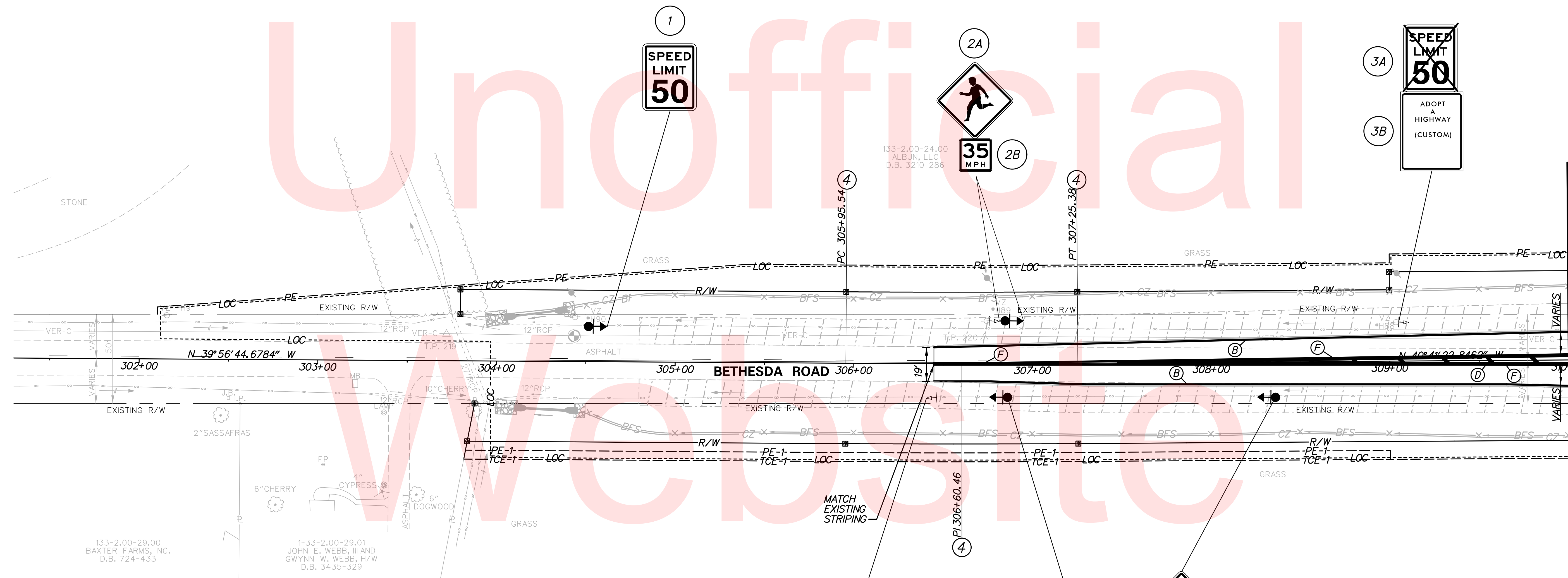
CONTRACT T200811201	BRIDGE NO. N/A
COUNTY SUSSEX	DESIGNED BY: D.A.D. CHECKED BY: J.R.R.

**UTILITY RELOCATION PLAN**

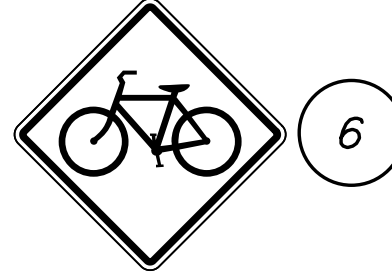
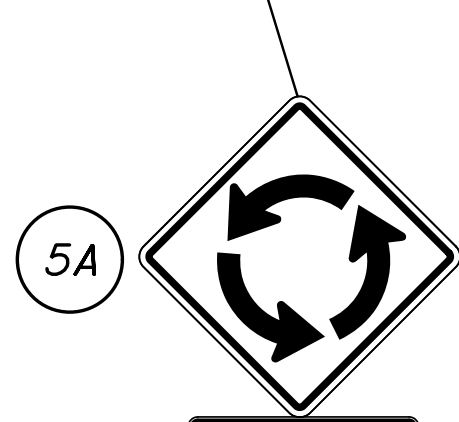
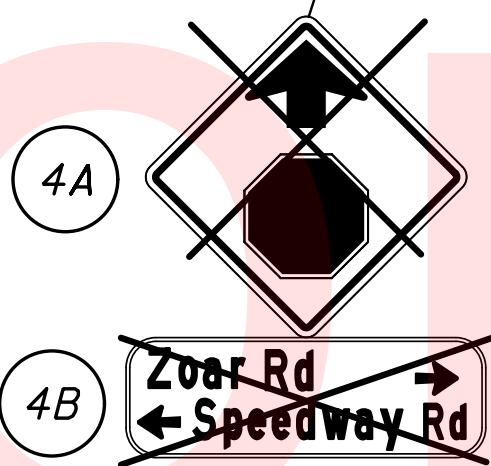
UT-03
SHEET NO. 34
TOTAL SHTS. 42



Unofficial



MATCH EXISTING STRIPING



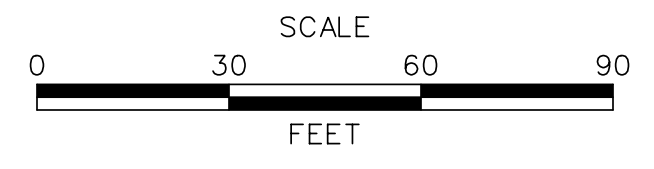
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(B)	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 5" (ITEM 748548)	711 LF
(D)	12" SOLID YELLOW ALKYD THERMOPLASTIC, PAVEMENT STRIPING, 45°, 25' O.C. (ITEM 748027)	26 LF
(F)	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	608 LF

MATCH LINE STA. 310+00 (SS-02)

No. 21606-003, CAD, SS01zoadr.dgn, 5/20/2016 3:12:26 PM



ADDENDUMS / REVISIONS	

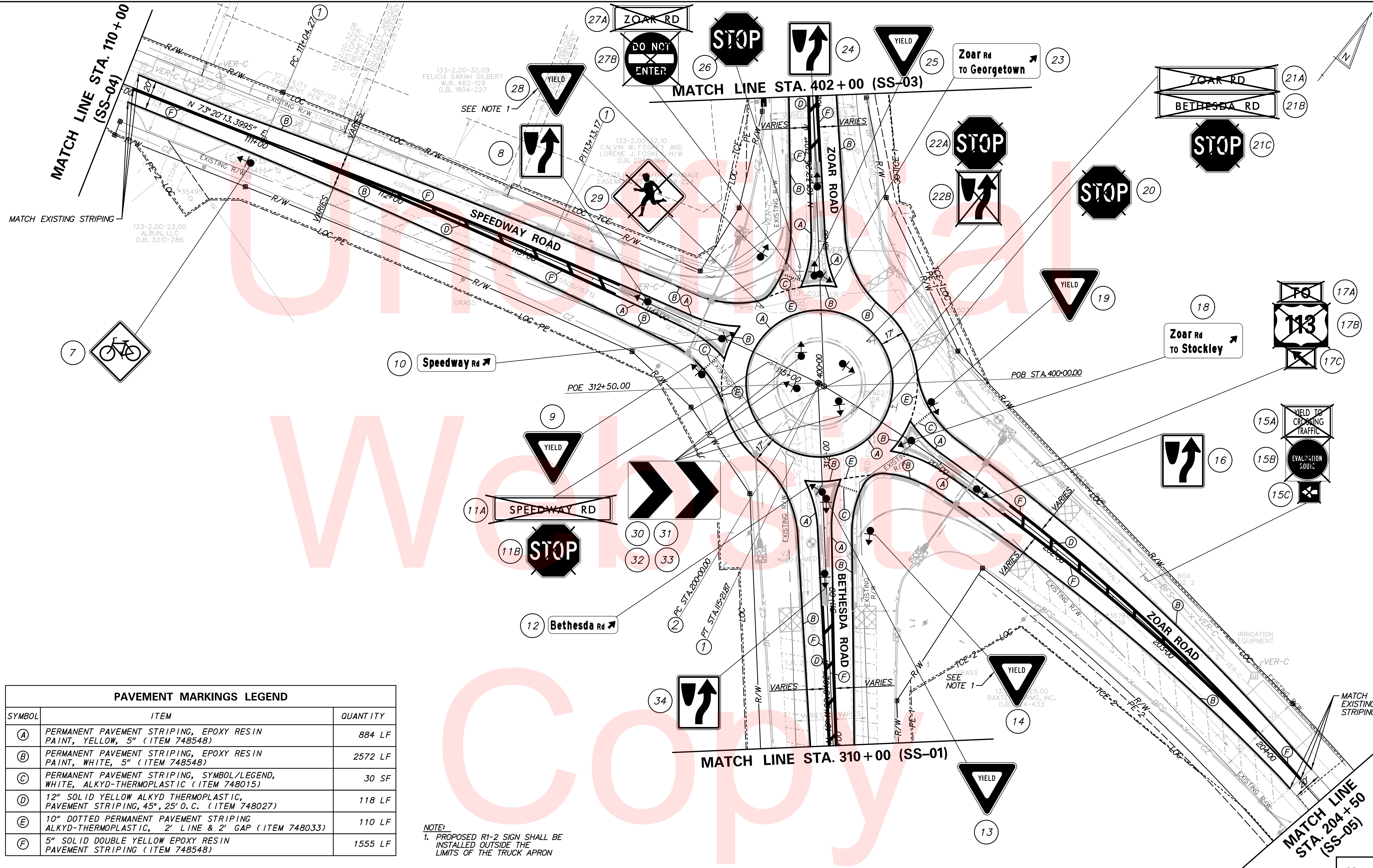


**HSIP SUSSEX COUNTY, ZOAR ROAD, SPEEDWAY ROAD, AND BETHESDA ROAD INTERSECTION IMPROVEMENTS**

CONTRACT	BRIDGE NO.	N/A
T200811201	DESIGNED BY:	B.S.S.
COUNTY	CHECKED BY:	J.R.R.
SUSSEX		

**SIGNING AND STRIPING PLAN**

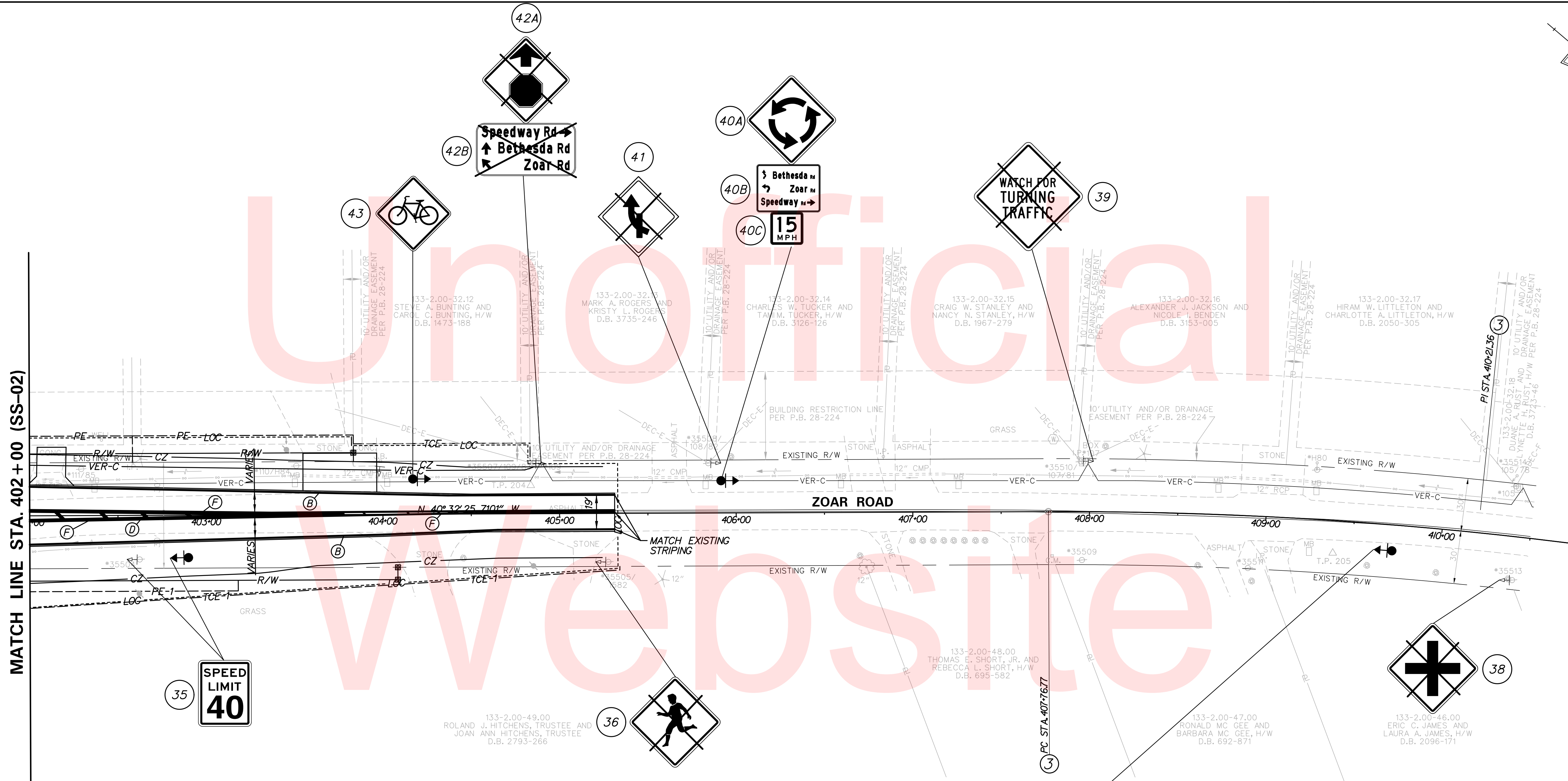
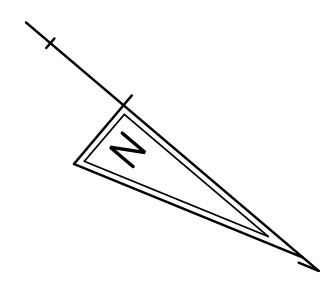
SS-01
SHEET NO.
35
TOTAL SHTS.
42



PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, YELLOW, 5" (ITEM 748548)	884 LF
(B)	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 5" (ITEM 748548)	2572 LF
(C)	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, WHITE, ALKYD-THERMOPLASTIC (ITEM 748015)	30 SF
(D)	12" SOLID YELLOW ALKYD THERMOPLASTIC, PAVEMENT STRIPING, 45°, 25' O.C. (ITEM 748027)	118 LF
(E)	10" DOTTED PERMANENT PAVEMENT STRIPING ALKYD-THERMOPLASTIC, 2' LINE & 2' GAP (ITEM 748033)	110 LF
(F)	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	1555 LF

NOTE:  
 1. PROPOSED R1-2 SIGN SHALL BE INSTALLED OUTSIDE THE LIMITS OF THE TRUCK APRON

No. 1606-003, CAD, SS02zoor.dgn  
 5/20/2016 3:12:29 PM

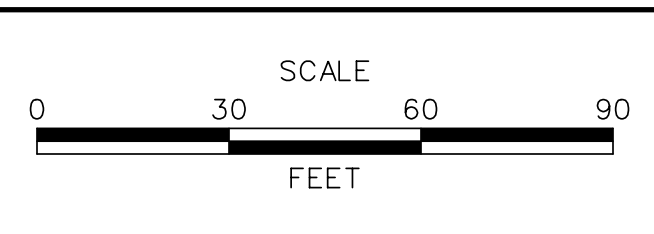


PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(B)	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE, 5" (ITEM 748548)	650 LF
(D)	12" SOLID YELLOW ALKYD THERMOPLASTIC, PAVEMENT STRIPING, 45°, 25' O.C. (ITEM 748027)	20 LF
(E)	5" SOLID DOUBLE YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	503 LF

No. 31606-003.CADD\_SS03.zoar.dgn  
 5/20/2016 3:15:30 PM



ADDENDUMS / REVISIONS

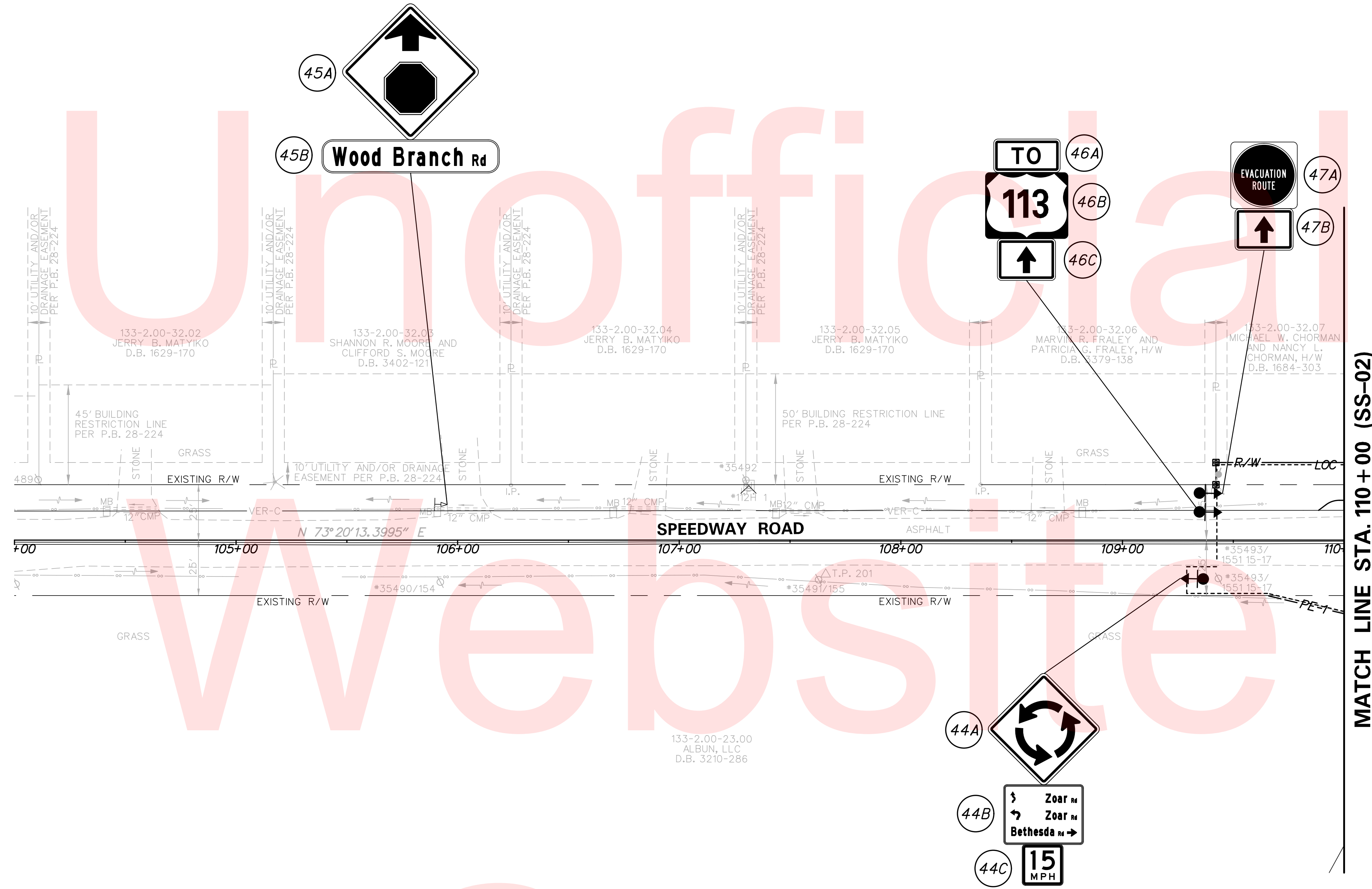
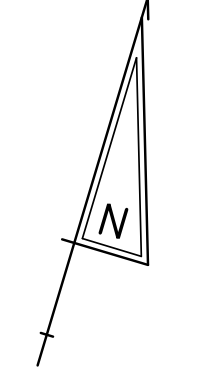


**HSP SUSSEX COUNTY, ZOAR ROAD,  
SPEEDWAY ROAD, AND BETHESDA ROAD  
INTERSECTION IMPROVEMENTS**

CONTRACT T200811201	BRIDGE NO. N/A
COUNTY SUSSEX	DESIGNED BY: B.S.S. CHECKED BY: J.R.R.

**SIGNING AND STRIPING PLAN**

<b>SS-03</b>
SHEET NO. 37
TOTAL SHTS. 42

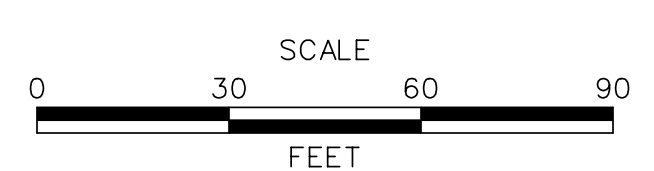


MATCH LINE STA. 110+00 (SS-02)

No. 21606-003\CADD\SS04\SS04zocr.dgn  
9/20/2016 3:15:51 PM



ADDENDUMS / REVISIONS	

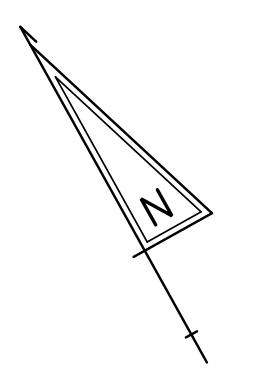


**HSP SUSSEX COUNTY, ZOAR ROAD,  
SPEEDWAY ROAD, AND BETHESDA ROAD  
INTERSECTION IMPROVEMENTS**

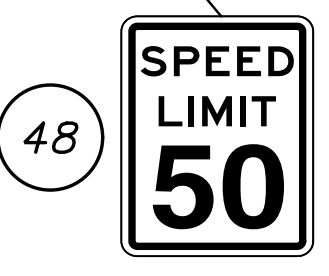
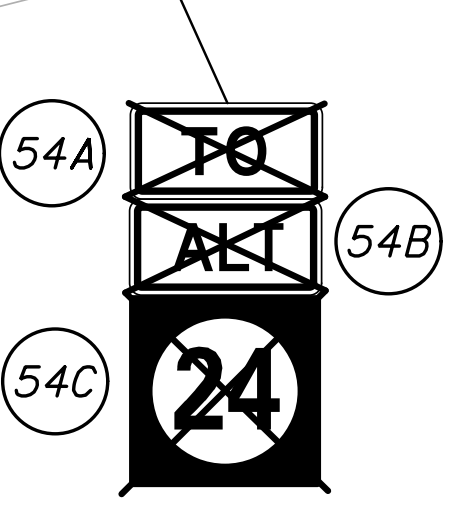
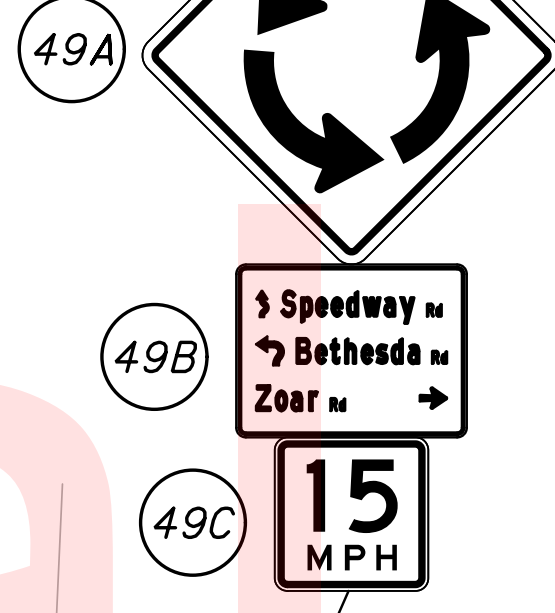
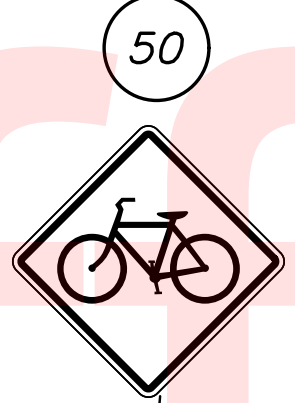
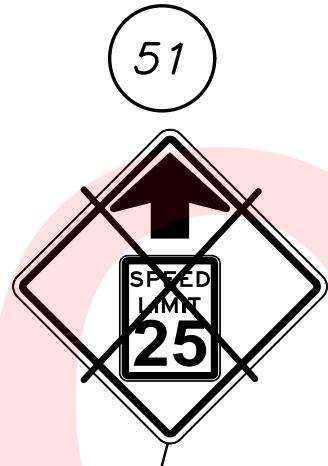
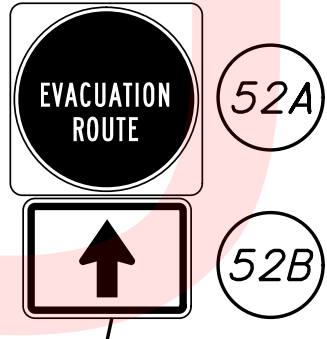
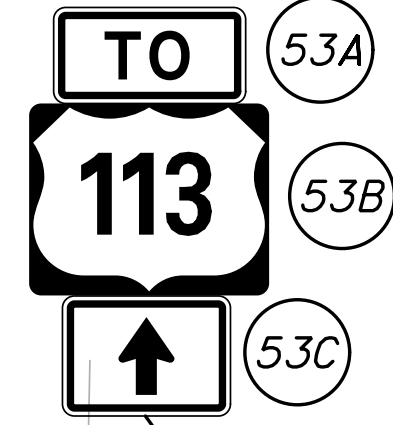
CONTRACT T200811201	BRIDGE NO. N/A
COUNTY SUSSEX	DESIGNED BY: B.S.S.
	CHECKED BY: J.R.R.

**SIGNING AND  
STRIPING PLAN**

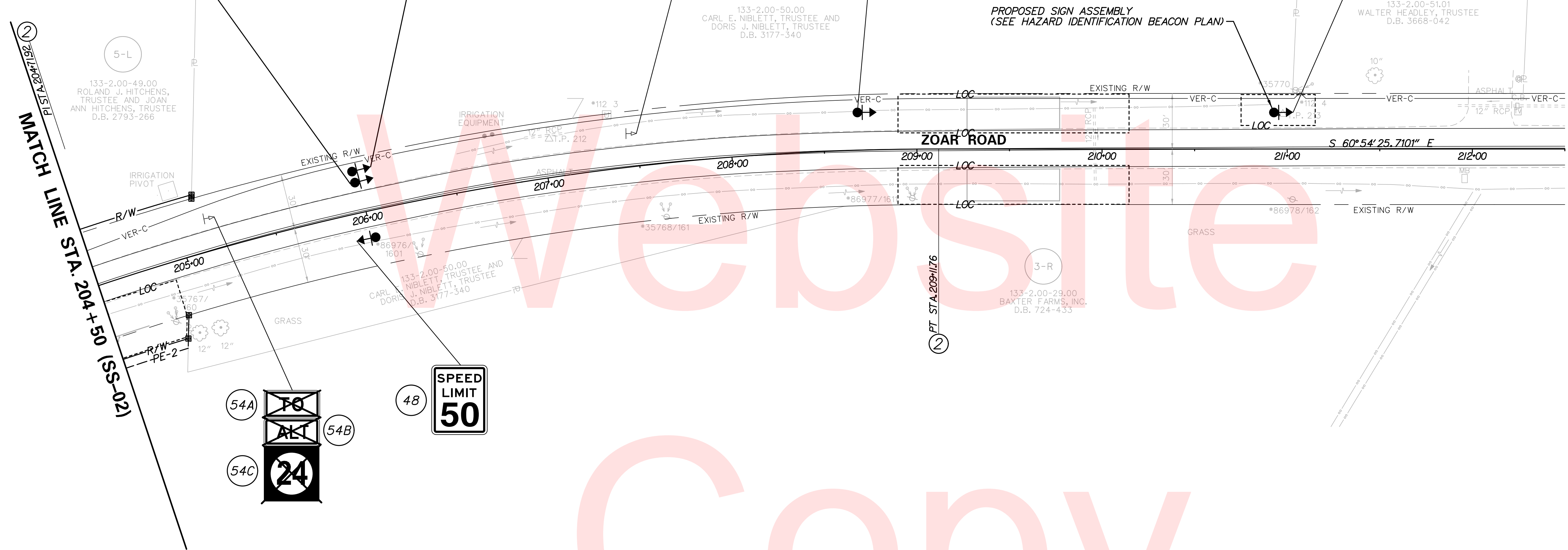
<b>SS-04</b>
SHEET NO. 38
TOTAL SHTS. 42



MATCH LINE STA. 204+50 (SS-02)



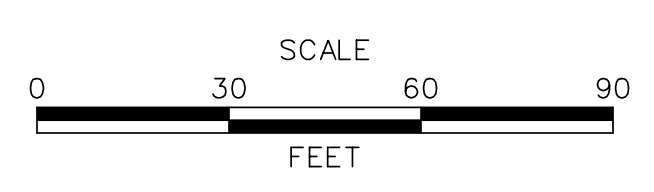
PROPOSED SIGN ASSEMBLY  
(SEE HAZARD IDENTIFICATION BEACON PLAN)



No. 31606-003, CAD, SS05zoor.dgn  
P. 2/20/2016 3:17:52 PM



ADDENDUMS / REVISIONS	



HSIP SUSSEX COUNTY, ZOAR ROAD,  
SPEEDWAY ROAD, AND BETHESDA ROAD  
INTERSECTION IMPROVEMENTS

CONTRACT T200811201	BRIDGE NO. N/A
COUNTY SUSSEX	DESIGNED BY: B.S.S. CHECKED BY: J.R.R.

**SIGNING AND STRIPING PLAN**

SS-05
SHEET NO. 39
TOTAL SHTS. 42

**SIGN SCHEDULE**

#	SHEET NO.	PLAN INDICATOR	CODE	QTY.	DESCRIPTION	ASSEMBLY NO.	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	SIGN AREA (SF)	ITEM 749687 SINGLE POST (EACH)			ITEM 749690 MULTIPOST (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					
62	35	1	R2-1-50(24)	1	SPEED LIMIT (50 MPH - 24x30)	1	24"	30"	5	NEW		1			SOIL	1	0	0		
1445	35	2A	W21-11-DE	1	WATCH CHILDREN (Symbol)	2	30"	30"	6.25	REPOSITION	1	1			SOIL	1	0	0		
1291	35	2B	W13-1P-35(18)	1	ADVISORY SPEED (35 MPH) 18x18	2	18"	18"	2.25	REPOSITION	1	1								
62	35	3A	R2-1-50(24)	1	SPEED LIMIT (50 MPH - 24x30)	3				REMOVE	1					0	0	0		
1872	35	3B	D14-3-DE	1	ADOPT A HIGHWAY	3				REPOSITION	1	1								
871	35	4A	W3-1(30)	1	STOP AHEAD (Symbol) - 30x30	4				REMOVE	1					0	0	0		
1368	35	4B	W16-8aP	1	ADVANCE STREET NAME (2 - line plaque)	4				REMOVE	1									
852	35	5A	W2-6(36)	1	CIRCULAR INTERSECTION - 36x36	5	36"	36"	9	NEW		1								
1369	35	5B	W16-8aP	1	ADVANCE STREET NAME (3 - line plaque)	5	36"	27"	6.75	NEW		1			SOIL	1	0	0	"Zoar Rd"(CURVED-STEM THROUGH ARROW)/ "Speedway Rd"(CURVED-STEM LEFT-TURN ARROW) / "Bethesda Rd"(RIGHT ARROW) (Black on Yellow Background - 4"C/2"C Series)	
1279	35	5C	W13-1P-15(18)	1	ADVISORY SPEED (15 MPH) 18x18	5	18"	18"	2.25	NEW		1								
1164	35	6	W11-1(30)	1	BICYCLE (Symbol) - 30x30	6	30"	30"	6.25	NEW		1		SOIL	1	0	0			
1164	36	7	W11-1(30)	1	BICYCLE (Symbol) - 30x30	7	30"	30"	6.25	NEW		1		SOIL	1	0	0			
311	36	8	R4-7(24)	1	KEEP RIGHT (Symbol) - 24x30	8	24"	30"	5	NEW		1		CONCRETE	1	0	0			
8	36	9	R1-2(36)	1	YIELD	9	36"	36"	4.5	NEW		1		SOIL	1	0	0			
1650	36	10	D1-1d	1	CIRCULAR INTERSECTION DESTINATION (1 Line)	10	54"	12"	4.5	NEW		1		CONCRETE	1	0	0		"Speedway Rd"(DIAGONAL RIGHT ARROW) (White on Green Background - 6"4"C Series)	
1673	36	11A	D3-1(9)	1	STREET NAME (1 Line)	11				REMOVE	1				0	0	0			
4	36	11B	R1-1(36)	1	STOP	11				REMOVE	1								SPEEDWAY RD	
1650	36	12	D1-1d	1	CIRCULAR INTERSECTION DESTINATION (1 Line)	12	48"	12"	4	NEW		1		CONCRETE	1	0	0		"Bethesda Rd"(DIAGONAL RIGHT ARROW) (White on Green Background - 6"4"C Series)	
8	36	13	R1-2(36)	1	YIELD	13	36"	36"	4.5	NEW		1		CONCRETE	1	0	0			
8	36	14	R1-2(36)	1	YIELD	14	36"	36"	4.5	NEW		1		SOIL	1	0	0			
XX	36	15A	XXXXX	1	YIELD TO CROSSING TRAFFIC	15				REMOVE	1									
1924	36	15B	EM-1-DE	1	EVACUATION ROUTE	15				REMOVE	1				0	0	0			
1603	36	15C	M6-1_L(B)	1	DIRECTIONAL ARROW (Left) - 12x9	15				REMOVE	1									
311	36	16	R4-7(24)	1	KEEP RIGHT (Symbol) - 24x30	16	24"	30"	5	NEW		1		CONCRETE	1	0	0			
1534	36	17A	M4-5(24)	1	TO - 24x12	17				REMOVE	1									
1485	36	17B	M1-4(30)	1	US ROUTE (3 - Digit Sign) - 30x24	17				REMOVE	1				0	0	0			
1639	36	17C	M6-7_L(21)	1	DIRECTIONAL ARROW AUXILIARY ( Up - 45 Left) -	17				REMOVE	1									
1650	36	18	D1-1d	1	CIRCULAR INTERSECTION DESTINATION (2 Lines)	18	54"	24"	9	NEW		1		CONCRETE	1	0	0		"Zoar Rd / TO Stockley" (DIAGONAL RIGHT ARROW) (White on Green Background - 6"4"C Series)	
8	36	19	R1-2(36)	1	YIELD	19	36"	36"	4.5	NEW		1		SOIL	1	0	0			
4	36	20	R1-1(36)	1	STOP	20				REMOVE	1				0	0	0			
1673	36	21A	D3-1(9)	1	STREET NAME (1 Line)	21				REMOVE	1								ZOAR RD	
1673	36	21B	D3-1(9)	1	STREET NAME (1 Line)	21				REMOVE	1				0	0	0		SPEEDWAY RD	
4	36	21C	R1-1(36)	1	STOP	21				REMOVE	1									
4	36	22A	R1-1(36)	1	STOP	22				REMOVE	1									
311	36	22B	R4-7(24)	1	KEEP RIGHT (Symbol) - 24x30	22				REMOVE	1				0	0	0			
1650	36	23	D1-1d	1	CIRCULAR INTERSECTION DESTINATION (2 Lines)	23	60"	24"	10	NEW		1		CONCRETE	1	0	0		"Zoar Rd / TO Georgetown" (DIAGONAL RIGHT ARROW) (White on Green Background - 6"4"C Series)	
311	36	24	R4-7(24)	1	KEEP RIGHT (Symbol) - 24x30	24	24"	30"	5	NEW		1		CONCRETE	1	0	0			
8	36	25	R1-2(36)	1	YIELD	25	36"	36"	4.5	NEW		1		CONCRETE	1	0	0			
4	36	26	R1-1(36)	1	STOP	26				REMOVE	1				0	0	0			
1673	36	27A	D3-1(9)	1	STREET NAME (1 Line)	27				REMOVE	1				0	0	0		ZOAR RD	
359	36	27B	R5-1(36)	1	DO NOT ENTER - 36x36	27				REMOVE	1									
PAGE TOTALS									109						17	0	0			

M:\2016\003\CAD\SS062006.dgn 9/20/2016 3:15:52 PM



ADDENDUMS / REVISIONS	

**NOT TO SCALE**

**HSP SUSSEX COUNTY, ZOAR ROAD, SPEEDWAY ROAD, AND BETHESDA ROAD INTERSECTION IMPROVEMENTS**

CONTRACT T200811201	BRIDGE NO. N/A
COUNTY SUSSEX	DESIGNED BY: B.S.S. CHECKED BY: J.R.R.

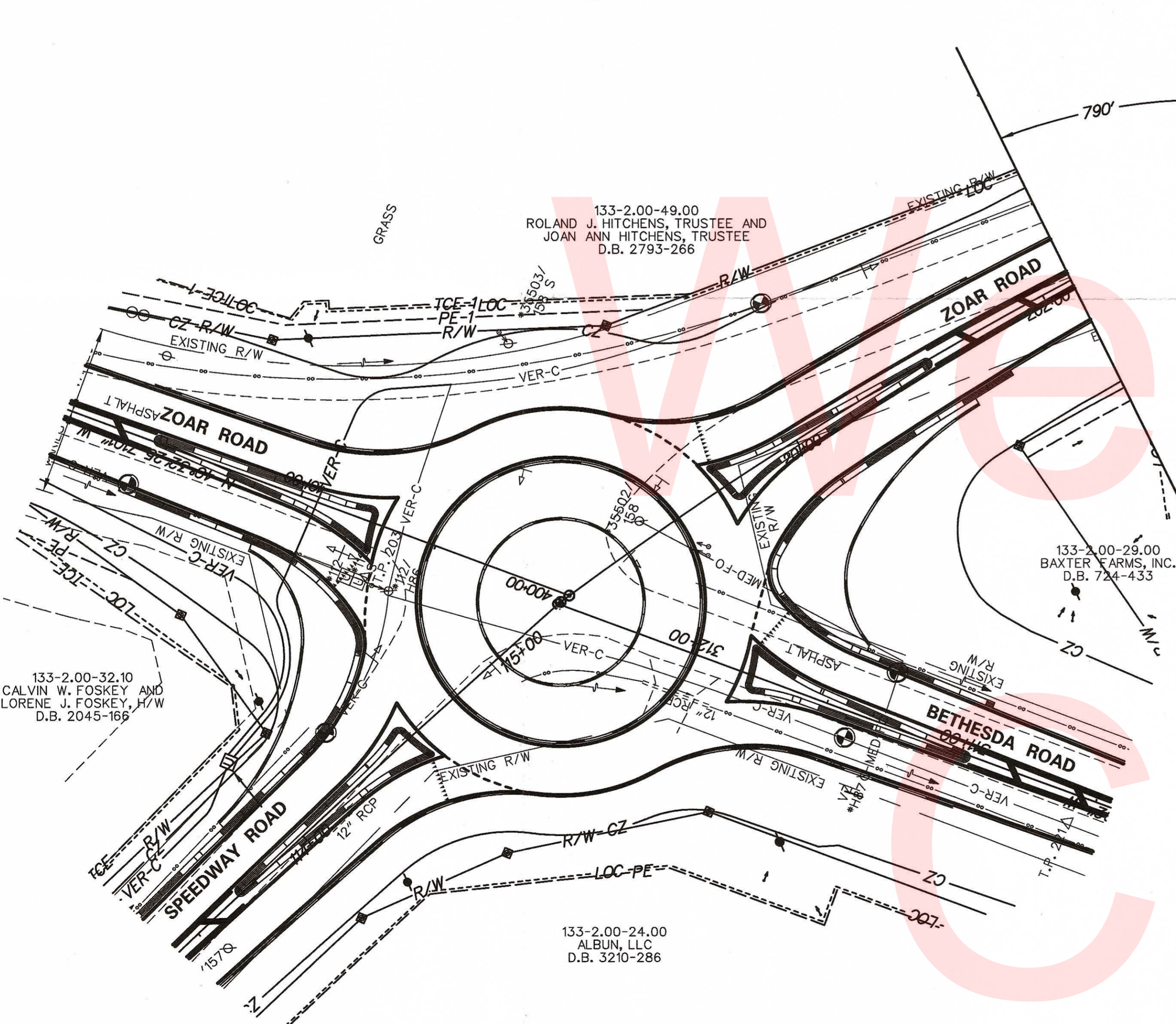
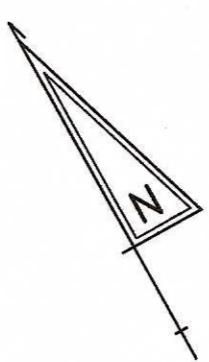
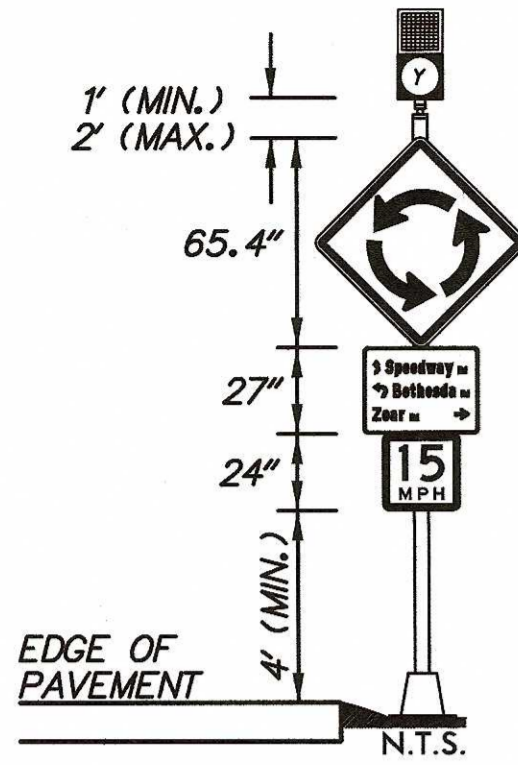
<b>SIGN SCHEDULE</b>	
SHEET NO. 40	TOTAL SHTS. 42

**SS-06**

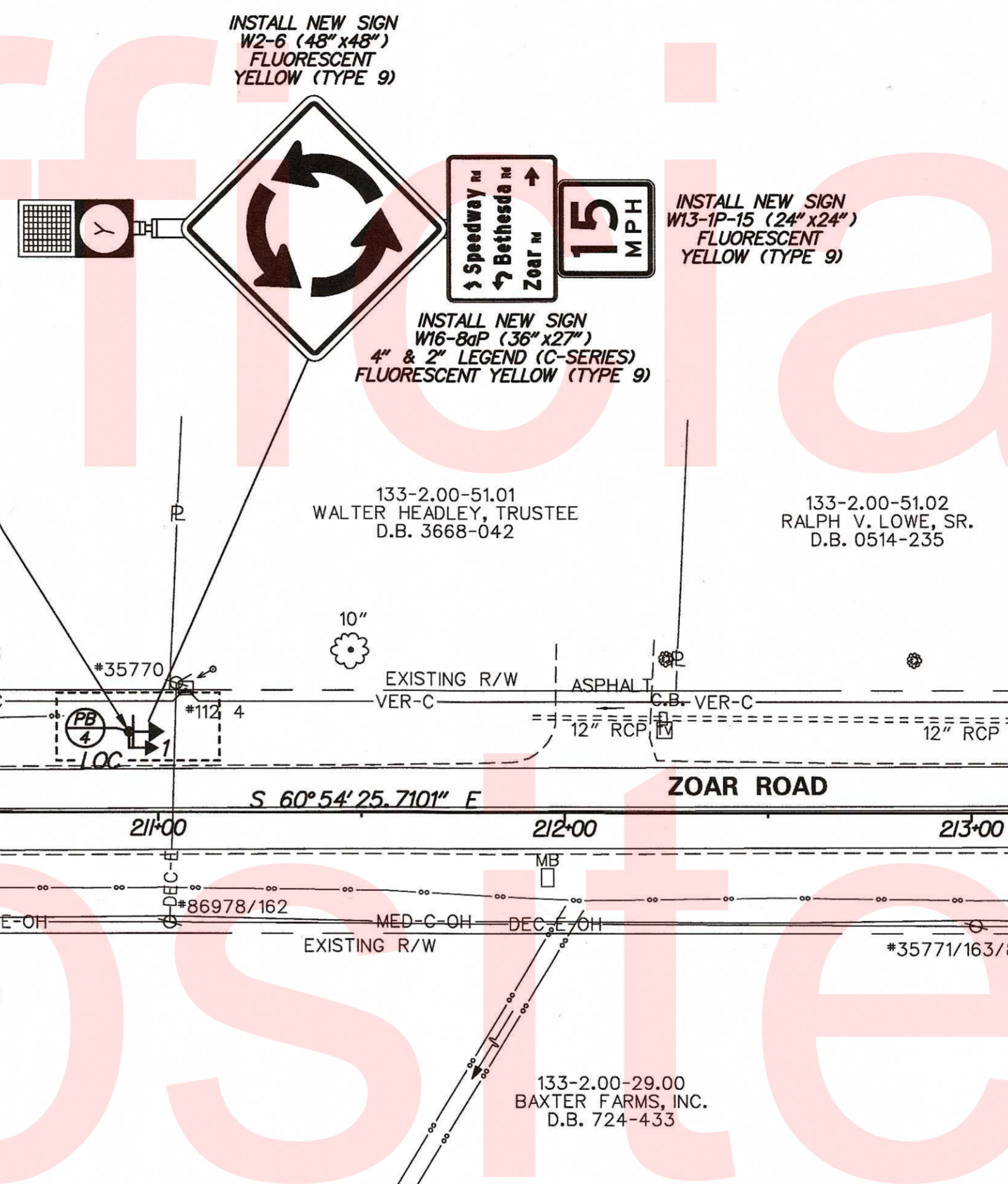




- HAZARD IDENTIFICATION BEACON (H.I.B.) ASSEMBLY SHALL CONSIST OF A SINGLE FLASHING YELLOW BEACON, A CIRCULAR INTERSECTION WARNING SIGN (W2-6, 48" x 48"), AN ADVANCE STREET NAME SIGN (W16-8aP, 36" x 27"), AND AN ADVISORY SPEED PLAQUE (W13-1P-15, 24" x 24") MOUNTED ON A PEDESTAL POLE.
- THE BEACON SHALL BE A 12-INCH YELLOW L.E.D. ONE-SECTION TRAFFIC SIGNAL HEAD.
- THE BEACON SHALL OPERATE 24 HOURS A DAY, 7 DAYS A WEEK.
- THE FLASHING RATE SHALL NOT BE LESS THAN 50 NOR MORE THAN 60 TIMES PER MINUTE.
- THE ILLUMINATED PERIOD OF EACH FLASH SHALL NOT BE LESS THAN 1/2 NOR MORE THAN 2/3 OF THE FLASH CYCLE.
- SIGNFIX (OR SIMILAR) SHALL BE INSTALLED ON THE BACK OF THE PROPOSED SIGNS FOR MOUNTING SUPPORT.
- THE PEDESTAL POLE SHALL BE CONTINUOUS SPUN ALUMINUM, SCHEDULE 80. SPlicing POLE EXTENSIONS SHALL BE PROHIBITED.



SEE SOLAR H.I.B. ASSEMBLY DETAIL



SIGNAL HEAD DIAGRAM



LEGEND

PROPOSED SIGNAL CABINET	(Symbol)	REMOVE BY CONTRACTOR
EXISTING SIGNAL CABINET	(Symbol)	REMOVE BY OTHERS
PROPOSED SIGNAL POLE BASE	(Symbol)	ABANDON
EXISTING SIGNAL POLE BASE	(Symbol)	PROPOSED POLE BASE IDENTIFIER (TYPE OF POLE BASE)
PROPOSED PEDESTRIAN POLE BASE	(Symbol)	EXISTING POLE BASE IDENTIFIER (TYPE OF POLE BASE)
EXISTING PEDESTRIAN POLE BASE	(Symbol)	PROPOSED JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
PROPOSED WOOD POLE	(Symbol)	EXISTING JUNCTION WELL IDENTIFIER (TYPE OF JUNCTION WELL)
EXISTING UTILITY POLE	(Symbol)	PROPOSED CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
PROPOSED JUNCTION WELL	(Symbol)	EXISTING CONDUIT RUN IDENTIFIER (# OF CONDUIT RUN)
EXISTING JUNCTION WELL	(Symbol)	PROPOSED OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
PROPOSED SIGNAL HEAD	(Symbol)	EXISTING OVERHEAD RUN IDENTIFIER (# OF OVERHEAD RUN)
EXISTING SIGNAL HEAD	(Symbol)	PROPOSED MAST ARM IDENTIFIER (LENGTH OF ARM)
PROPOSED PEDESTRIAN SIGNAL HEAD	(Symbol)	EXISTING MAST ARM IDENTIFIER (LENGTH OF ARM)
EXISTING PEDESTRIAN SIGNAL HEAD	(Symbol)	PROPOSED CABINET IDENTIFIER (TYPE OF CABINET)
PROPOSED PEDESTRIAN PUSHBUTTON	(Symbol)	EXISTING CABINET IDENTIFIER (TYPE OF CABINET)
EXISTING PEDESTRIAN PUSHBUTTON	(Symbol)	PROPOSED SPAN WIRE
PROPOSED VIDEO DETECTION	(Symbol)	EXISTING SPAN WIRE
EXISTING VIDEO DETECTION	(Symbol)	RIGHT-OF-WAY OR PROPERTY LINE
PROPOSED MICROWAVE DETECTION	(Symbol)	PROPOSED SPAN INSULATOR
EXISTING MICROWAVE DETECTION	(Symbol)	EXISTING SPAN INSULATOR
OVERHEAD SIGNING	(Symbol)	SERVICE PEDESTAL
PROPOSED OPTICOM RECEIVER	(Symbol)	
EXISTING OPTICOM RECEIVER	(Symbol)	
PROPOSED MAST ARM	(Symbol)	
EXISTING MAST ARM	(Symbol)	
PROPOSED LUMINAIRE	(Symbol)	
EXISTING LUMINAIRE	(Symbol)	
PROPOSED LOOP DETECTOR (TYPE 1 OR 2)	(Symbol)	
EXISTING LOOP DETECTOR (TYPE 1 OR 2)	(Symbol)	

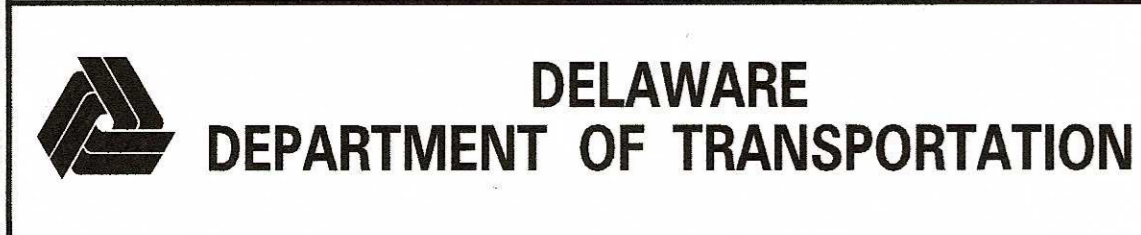
GENERAL SIGNAL NOTES

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY AND/OR THE APPROPRIATE UTILITY PRIOR TO THE BEGINNING OF CONSTRUCTION FOR THE UTILITY MARKOUTS. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY DELDOT TRAFFIC IMMEDIATELY BEFORE CONSTRUCTION.

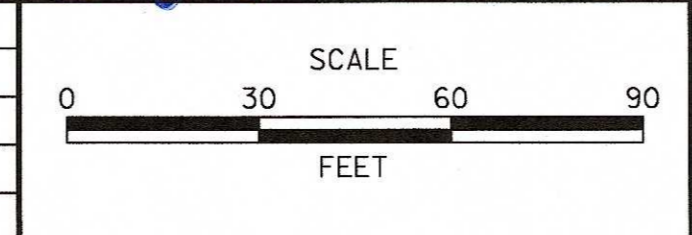
SG-01

NA 31606-0013 CAD/SCD/trace.dgn 8/7/2016 2:58:06 PM

RECOMMENDED _____ DATE: _____	RECOMMENDED _____ DATE: _____	RECOMMENDED <u>WLD/SG</u> DATE: <u>8/11/16</u>	APPROVED TRAFFIC ENGINEER _____ DATE: _____	APPROVED FOR INSTALLATION CHIEF TRAFFIC ENGINEER <u>WLD/SG</u> DATE: <u>8/11/16</u>
-------------------------------	-------------------------------	--	---	---



ADDENDUM / REVISIONS	



HSIP SUSSEX COUNTY, ZOAR ROAD, SPEEDWAY ROAD, AND BETHESDA ROAD INTERSECTION IMPROVEMENTS

CONTRACT T200811201	PERMIT NO. S334
COUNTY SUSSEX	DESIGNED BY: D.C.G. (WRA)
	CHECKED BY: M.J.B. (WRA)

HAZARD IDENTIFICATION BEACON PLAN, ZOAR ROAD (S48)	SHEET NO. 42
	TOTAL SHTS. 42